

7000 Year Canon of Lunar Eclipses

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This 7000 Year Canon of Lunar Eclipses covers a time span which starts at sunset, at Jerusalem, on June 6, 3977 B.C.E. on the proleptic (retro-calculated) Julian Calendar, and ends at sunset, at Jerusalem, on May 7, 3024 C.E. on the Gregorian Calendar covering a period of 7000 Creation Years. Additional details, including eclipse visibility maps for each of these lunar eclipses are made available on the Creation Calendar at www.torahcalendar.com. Also available there are details and visibility maps for all solar eclipses during this same period of time. A total of 86,579 lunar Hebrew Months within a period of 7001 Hebrew Years may be viewed at this theoretical stage of restoration on the Creation Calendar. For particular lunar months where an eclipse occurs, one or more clickable icons are displayed indicating a solar eclipse, a lunar eclipse or both. Clicking on an eclipse icon activates an Eclipse Viewer pop-up window which presents additional details and a visibility map for the requested eclipse. The Creation Calendar Restoration Project is a theoretical work in progress. The goal of the project is to truthfully restore the epoch of creation based on the Scriptures and the historical record.

Column	Heading:	Definition / Description
1	Lunar Eclipse Number	Sequential catalog number for each eclipse within the 7000 Year Canon of Lunar Eclipses A total of 16,874 Lunar Eclipses have been identified and documented within this canon
2	Calendar Date and Time (UT)	Calendar Date and Time at instant of Maximum Eclipse (Greatest Eclipse) in Universal Time (UT) Gregorian Calendar is used for dates after October 4, 1582 C.E. Julian Calendar is used for dates before October 5, 1582 C.E.
3	Astronomical Julian Date (UT)	Instant of Maximum Eclipse in Universal Time (UT) using the Astronomical Julian Date format.
4	(TD) and Time of Maximum Eclipse	Calendar Date and Time at instant of Maximum Eclipse expressed in Dynamical Time (TD) where dates prior to 1 B.C.E. are expressed as negative years with no year zero whereby Year 1 is preceded by -1 instead of the number 0.
5	Delta T (seconds)	Difference in time at the moment of eclipse defined as: $\Delta T = (TD - UT)$ in units of seconds
6	Lunar Eclipse Type	Type of Lunar Eclipse where: LNN = Lunar Penumbral Moon only intersects with the penumbra (Penumbral) LPN = Lunar Partial Penumbral Moon intersects umbra (Partial) but is not fully within penumbra (Penumbral) LNT = Lunar Penumbral total Moon is total in the penumbra (Penumbral) but never intersects with the umbra LPU = Lunar Partial Umbral Moon is partially within the umbra (Partial) and total within the penumbra LTU = Lunar Total Umbral Moon is totally within the umbra (Total)
7	Node	The orbital node is the point where the moon's geometric latitude crosses zero due to its orbit having a 5.145° slope relative to the ecliptic. Asc. = Ascending Node Dec. = Descending Node
8	Gamma	This parameter represents the distance from the center of the Earth's shadow cone axis to the center of the Moon in units of Earth's equatorial radii at the instant of Maximum Eclipse. Positive values indicate eclipses where the Moon passes north of the shadow axis. Negative values indicate eclipses where the Moon passes south of the shadow axis.
9	Pen. Mag.	Penumbral Magnitude is the fraction of the Moon's diameter immersed in the penumbra at the instant of Maximum Eclipse. (equal to the distance measured from the edge of the penumbral shadow to the edge of the Moon deepest in the penumbra).
10	Umb. Mag.	Umbral Magnitude is the fraction of the Moon's diameter immersed in the umbra at the instant of Maximum Eclipse. (equal to the distance measured from the edge of the umbral shadow to the edge of the Moon deepest in the umbra). Negative values can only occur if the moon never touches the umbra during the eclipse.
11	Eclipse Phase Durations Pen.	Duration of penumbral phase of a lunar eclipse; equal to the time interval between first and last contact of the Moon with the penumbral shadow
12	Eclipse Phase Durations Par.	Duration of partial phase of a lunar eclipse; equal to the time interval between first and last contact of the Moon with the umbral shadow
13	Eclipse Phase Durations Tot.	Duration of total phase a lunar eclipse; equal to the time interval between second and third contact of the Moon with the umbral shadow
14	Greatest in Zenith Lat.	Latitude on the Earth where the Moon appears in the zenith at instant of Maximum Eclipse
15	Greatest in Zenith Lon.	Longitude on the Earth where the Moon appears in the zenith at instant of Maximum Eclipse
16	Hebrew Date on the Creation Calendar	This is the Hebrew Calendar Day, Hebrew Calendar Month and Gregorian/Julian Year for the instant of Maximum Eclipse based upon its occurrence with respect to the time of sunset at Jerusalem, Israel. If the Maximum Eclipse occurs after sunset at Jerusalem, it is displayed on the following Hebrew Day on the Creation Calendar at www.torahcalendar.com .

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Month	Day	Hour	Minute								Year	Month	Day	Hour	Minute	Pen.	Par.	Lat.	Lon.	Day	Month	Year		
00001	Sep	09	3977	B.C.E.	14:43:27	0269076.1135033	-3977	Sep	10	20:46:58	108210	LTU	Dec.	0.4592	2.0072	1.0234	311	188	023	15.9S	141.1E	13	05	3977	B.C.E.
00002	Mar	06	3976	B.C.E.	11:23:05	0269253.9743597	-3976	Mar	07	17:25:55	108171	LTU	Asc.	0.2623	2.4120	1.3420	368	227	086	17.1N	165.6W	14	11	3976	B.C.E.
00003	Aug	30	3976	B.C.E.	06:24:02	0269430.7666857	-3976	Aug	31	12:26:52	108171	LTU	Dec.	-0.2214	2.4346	1.4688	316	202	087	19.6S	94.3W	14	05	3976	B.C.E.
00004	Feb	23	3975	B.C.E.	11:46:46	0269607.9980847	-3975	Feb	24	17:48:59	108133	LNT	Asc.	0.0026	1.0522	-0.0147	286	---	---	20.7N	171.3W	13	11	3975	B.C.E.
00005	Aug	19	3975	B.C.E.	21:22:59	0269785.3909588	-3975	Aug	21	03:25:11	108133	LPU	Dec.	-0.9278	1.1520	0.1592	266	085	---	22.6S	40.4E	15	05	3975	B.C.E.
00006	Jan	14	3974	B.C.E.	04:53:28	0269932.7037921	-3974	Jan	15	10:55:04	108096	LNN	Asc.	-1.0440	0.9438	-0.0589	251	---	---	23.0N	70.7W	13	10	3974	B.C.E.
00007	Jul	10	3974	B.C.E.	16:41:53	0270110.1957473	-3974	Jul	11	22:43:28	108096	LNN	Dec.	1.1279	0.8196	-0.2418	256	---	---	22.2S	107.3E	15	03	3974	B.C.E.
00008	Jan	03	3973	B.C.E.	19:00:15	0270287.2918423	-3973	Jan	05	01:01:13	108057	LTU	Asc.	-0.3069	2.2777	1.3119	314	198	076	22.8N	76.6E	14	09	3973	B.C.E.
00009	Jun	28	3973	B.C.E.	17:28:55	0270464.2284174	-3973	Jun	29	23:29:52	108057	LTU	Dec.	0.4049	2.1545	1.0763	363	215	045	21.2S	94.8E	14	03	3973	B.C.E.
00010	Dec	23	3973	B.C.E.	11:08:19	0270641.9641116	-3973	Dec	24	17:09:15	108057	LTU	Asc.	0.3817	2.1428	1.1722	312	193	059	21.8N	166.5W	14	09	3973	B.C.E.
00011	Jun	17	3972	B.C.E.	19:12:41	0270818.3004794	-3972	Jun	19	01:13:02	108019	LTU	Dec.	-0.3515	2.2361	1.1905	353	216	067	19.5S	68.4E	14	02	3972	B.C.E.
00012	Dec	13	3972	B.C.E.	00:35:54	0270996.5249344	-3972	Dec	14	06:36:13	108019	LNN	Asc.	1.1108	0.8282	-0.1884	240	---	---	19.9N	9.3W	14	08	3972	B.C.E.
00013	May	08	3971	B.C.E.	19:20:36	0271143.3059743	-3971	May	10	01:20:17	107981	LNN	Dec.	1.4735	0.1342	-0.8257	099	---	---	4.8S	69.8E	14	01	3971	B.C.E.
00014	Jun	07	3971	B.C.E.	03:43:52	0271172.6554580	-3971	Jun	08	09:43:33	107981	LNN	Dec.	-1.0852	0.8610	-0.1272	241	---	---	17.2S	59.5W	13	02	3971	B.C.E.
00015	Nov	02	3971	B.C.E.	13:11:59	0271321.0499844	-3971	Nov	03	19:11:40	107981	LNN	Asc.	-1.1110	0.8705	-0.2306	269	---	---	3.6N	162.9E	14	07	3971	B.C.E.
00016	Apr	28	3970	B.C.E.	12:05:59	0271498.0041572	-3970	Apr	29	18:05:02	107943	LPU	Dec.	0.7151	1.5148	0.5764	281	142	---	1.4S	179.3E	13	01	3970	B.C.E.
00017	Oct	22	3970	B.C.E.	12:06:17	0271675.0043584	-3970	Oct	23	18:05:20	107943	LPU	Asc.	-0.4423	2.0978	0.9962	362	209	---	0.6S	179.5E	13	07	3970	B.C.E.
00018	Apr	17	3969	B.C.E.	04:52:36	0271852.7031961	-3969	Apr	18	10:50:57	107904	LTU	Dec.	-0.0274	2.7878	1.8275	326	211	101	2.0N	171.5W	14	13	3969	B.C.E.
00019	Oct	10	3969	B.C.E.	14:48:22	0272029.1169240	-3969	Oct	11	20:46:49	107904	LTU	Asc.	-0.2674	2.4150	1.3606	350	218	084	4.6S	139.3E	12	06	3969	B.C.E.
00020	Apr	06	3968	B.C.E.	17:05:12	0272207.2119458	-3968	Apr	07	23:02:58	107867	LPU	Dec.	-0.8299	1.3416	0.3292	295	128	---	5.5N	106.2E	15	12	3968	B.C.E.
00021	Sep	30	3968	B.C.E.	00:53:24	0272383.5370881	-3968	Oct	01	06:51:12	107867	LPU	Asc.	0.9234	1.1622	0.1651	266	088	---	8.4S	11.9W	13	06	3968	B.C.E.
00022	Feb	25	3967	B.C.E.	06:58:52	0272531.7908837	-3967	Feb	26	12:56:01	107829	LNN	Dec.	1.1997	0.6952	-0.3808	244	---	---	20.3N	99.0W	14	11	3967	B.C.E.
00023	Aug	21	3967	B.C.E.	05:51:08	0272785.8271241	-3967	Aug	22	11:48:17	107829	LNN	Asc.	-1.0901	0.8415	-0.1259	228	---	---	22.5S	86.3W	14	05	3967	B.C.E.
00024	Sep	19	3967	B.C.E.	15:52:39	0272738.1615631	-3967	Sep	20	21:49:48	107829	LNN	Asc.	1.5455	0.0067	-0.9623	022	---	---	11.7S	123.2E	13	06	3967	B.C.E.
00025	Feb	14	3966	B.C.E.	07:51:04	0272885.8271241	-3966	Feb	15	13:47:36	107791	LTU	Dec.	0.4455	2.0706	1.0112	352	208	017	22.1N	112.6W	13	11	3966	B.C.E.
00026	Aug	10	3966	B.C.E.	19:54:54	0273063.3293790	-3966	Aug	12	01:50:48	107791	LTU	Asc.	-0.4196	2.0907	0.0856	325	199	044	23.5S	61.8E	15	04	3966	B.C.E.
00027	Feb	03	3965	B.C.E.	14:28:53	0273240.1033949	-3965	Feb	04	20:24:48	107753	LTU	Dec.	-0.3169	2.2813	1.2720	335	211	075	23.0N	147.1E	12	10	3965	B.C.E.
00028	Jul	30	3965	B.C.E.	03:50:13	0273417.6598711	-3965	Jul	31	09:46:04	107753	LTU	Asc.	0.3174	2.3049	1.2471	355	218	074	23.7S	58.3W	15	04	3965	B.C.E.
00029	Jan	23	3964	B.C.E.	03:48:19	0273594.6585543	-3964	Jan	24	09:43:33	107714	LPU	Dec.	-1.0157	0.9772	0.0114	244	023	---	23.0N	53.7W	13	10	3964	B.C.E.
00030	Jul	19	3964	B.C.E.	05:11:51	0273771.7165598	-3964	Jul	20	11:07:05	107714	LNN	Asc.	1.0610	0.9540	-0.1306	279	---	---	23.0S	79.7W	14	04	3964	B.C.E.
00031	Dec	14	3964	B.C.E.	10:17:55	0273919.19291031	-3964	Dec	15	16:13:08	107714	LPU	Dec.	0.9487	1.1082	0.1261	258	071	---	20.2N	154.5W	14	09	3964	B.C.E.
00032	Jun	08	3963	B.C.E.	16:22:45	0274096.1824608	-3963	Jun	09	22:17:21	107676	LNN	Asc.	-1.0488	0.9480	-0.0804	263	---	---	17.6S	111.0E	14	02	3963	B.C.E.
00033	Dec	03	3963	B.C.E.	22:07:27	0274274.4218406	-3963	Dec	05	04:02:01	107676	LTU	Dec.	0.2805	2.3616	1.3254	343	214	080	16.5N	247.8E	15	08	3963	B.C.E.
00034	May	29	3962	B.C.E.	03:00:20	0274450.6252347	-3962	May	30	08:54:20	107638	LTU	Asc.	-0.2442	2.3960	1.4236	326	208	087	13.5S	47.7W	13	02	3962	B.C.E.
00035	Nov	23	3962	B.C.E.	02:41:29	0274628.6121413	-3962	Nov	24	08:35:27	107639	LTU	Dec.	-0.4270	2.1204	1.0294	359	210	028	12.1N	40.5W	14	08	3962	B.C.E.
00036	Nov	17	3961	B.C.E.	19:05:13	0274805.2952947	-3961	Nov	19	00:58:35	107601	LPU	Asc.	0.5011	1.9087	0.9680	300	177	---	9.1S	72.1E	14	01	3961	B.C.E.
00037	Nov	11	3961	B.C.E.	01:54:18	0274982.5793712	-3961	Nov	12	07:47:39	107601	LNN	Dec.	-1.1044	0.8849	-0.2206	272	---	---	7.2N	28.3W	14	07	3961	B.C.E.
00038	Apr	08	3960	B.C.E.	04:36:21	0275130.6191216	-3960	Apr	09	10:29:04	107563	LNN	Asc.	-1.2986	0.4619	-0.5114	181	---	---	4.3N	66.8W	15	12	3960	B.C.E.
00039	May	07	3960	B.C.E.	12:11:52	0275160.0082374	-3960	May	08	18:04:35	107563	LNN	Asc.	1.2429	0.5532	-0.3988	191	---	---	4.5S	176.7E	14	01	3960	B.C.E.
00040	Oct	01	3960	B.C.E.	11:38:09	0275306.9848281	-3960	Oct	02	17:30:53	107563	LNN	Dec.	1.1895	0.6935	-0.3422	226	---	---	7.5S	173.0W	12	06	3960	B.C.E.
00041	Mar	28	3959	B.C.E.	14:53:12	0275485.1202722	-3959	Mar	29	20:45:14	107524	LPU	Asc.	-0.5786	1.8111	0.7819	331	187	---	9.1N	140.3E	14	12	3959	B.C.E.
00042	Sep	20	3959	B.C.E.	23:33:32	0275661.4816151	-3959	Sep	22	05:25:36	107524	LTU	Dec.	0.4625	2.0013	1.0175	311	188	020	12.2S	8.6E	13	06	3959	B.C.E.
00043	Mar	17	3958	B.C.E.	18:01:25	0275839.2509876	-3958	Mar	18	23:52:50	107486	LTU	Dec.	0.1821	2.5513	1.4824	371	232	097	13.6N	94.4E	14	12	3958	B.C.E.
00044	Sep	10	3958	B.C.E.	15:11:30	0276016.1329913	-3958	Sep	11	21:02:56	107486	LTU	Dec.	-0.2111	2.4549	1.4862	317	203	088	16.4S	134.2E	13	05	3958	B.C.E.
00045	Mar	05	3957	B.C.E.	18:36:40	0276193.2754577	-3957	Mar	07	00:27:28	107448	LPU	Asc.	0.9325	1										

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar					
	Year	Month	Day	Year	Day	(TD)	Time		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year	
00108	Oct	11	3931 B.C.E.	09:55:48	0285908.9137542	-3931	Oct 12 15:30:11	106463	LNN	Asc.	1.5395	0.0190	-0.9527	037	---	3.2S	148.3W	13	06	3931 B.C.E.	
00109	Mar	07	3930 B.C.E.	21:50:28	0286056.4100492	-3930	Mar 09 03:24:14	106425	LPU	Dec.	0.5795	1.8189	0.7712	338	188	16.9N	37.7E	13	11	3930 B.C.E.	
00110	Sep	01	3930 B.C.E.	12:32:14	0286234.0223853	-3930	Sep 02 18:05:57	106425	LPU	Dec.	-0.4661	2.0118	0.9941	326	195	19.2S	173.9E	14	05	3930 B.C.E.	
00111	Feb	25	3929 B.C.E.	05:41:39	0286410.7372612	-3929	Feb 26 11:14:49	106387	LTU	Dec.	-0.2045	2.4808	1.4846	336	216	19.2N	80.2W	13	11	3929 B.C.E.	
00112	Aug	20	3929 B.C.E.	19:17:54	0286588.3040931	-3929	Aug 22 00:51:00	106388	LPU	Asc.	0.2527	2.4300	1.3593	361	223	21.1S	71.6E	15	05	3929 B.C.E.	
00113	Feb	13	3928 B.C.E.	19:56:04	0286765.3305963	-3928	Feb 15 01:28:34	106350	LPU	Dec.	-0.9218	1.1445	0.1883	258	081	20.8N	65.7E	14	11	3928 B.C.E.	
00114	Aug	09	3928 B.C.E.	19:50:04	0286842.3264296	-3928	Aug 11 01:22:33	106350	LPU	Asc.	0.9743	1.1170	0.0244	298	038	22.3S	62.6E	14	04	3928 B.C.E.	
00115	Jan	05	3927 B.C.E.	03:27:19	0287090.6439672	-3927	Jan 06 08:59:10	106312	LPU	Dec.	0.9889	1.0338	0.0531	252	040	24.3N	50.1W	14	09	3927 B.C.E.	
00116	Jun	30	3927 B.C.E.	06:46:59	0287266.7826273	-3927	Jul 01 12:18:52	106312	LNN	Asc.	-1.1684	0.7277	-0.2990	234	---	22.9S	104.8W	13	03	3927 B.C.E.	
00117	Dec	25	3927 B.C.E.	14:51:03	0287445.1187836	-3927	Dec 26 20:22:53	106312	LTU	Dec.	0.3068	2.3139	1.2767	344	213	22.1N	138.0E	15	09	3927 B.C.E.	
00118	Jun	19	3926 B.C.E.	18:05:24	0287621.2537503	-3926	Jun 20 23:36:40	106274	LPU	Asc.	-0.3726	2.1596	1.1889	319	198	06.3	205	85.3E	14	03	3926 B.C.E.
00119	Dec	14	3926 B.C.E.	18:51:06	0287799.2854870	-3926	Dec 16 00:22:19	106274	LTU	Dec.	-0.4107	2.1499	1.0598	361	212	03.9	18.9	77.4E	14	09	3926 B.C.E.
00120	Jun	08	3925 B.C.E.	10:22:31	0287975.9323055	-3925	Jun 09 15:53:07	106236	LPU	Asc.	0.3650	2.1596	1.2165	308	191	06.5	14.6	158.7W	13	02	3925 B.C.E.
00121	Dec	02	3925 B.C.E.	18:06:30	0288153.2545130	-3925	Dec 03 23:37:06	106236	LNN	Dec.	-1.0952	0.8988	-0.2009	273	---	15.1N	88.3E	14	08	3925 B.C.E.	
00122	Apr	29	3924 B.C.E.	19:06:12	0288301.2959733	-3924	May 01 00:36:10	106198	LNN	Asc.	-1.4540	0.1796	-0.7997	117	---	4.2S	73.2E	15	01	3924 B.C.E.	
00123	May	29	3924 B.C.E.	03:07:31	0288330.6302217	-3924	May 30 08:37:29	106198	LNN	Asc.	1.1094	0.8019	-0.1573	226	---	12.5S	49.2W	14	02	3924 B.C.E.	
00124	Oct	23	3924 B.C.E.	05:05:17	0288477.7120022	-3924	Oct 24 10:35:15	106198	LNN	Dec.	1.1731	0.7213	-0.3096	228	---	1.5N	75.9W	13	07	3924 B.C.E.	
00125	Apr	19	3923 B.C.E.	04:28:32	0288655.6864789	-3923	Apr 20 09:57:51	106160	LPU	Asc.	-0.7427	1.5126	0.4784	316	155	0.7N	65.9W	15	13	3923 B.C.E.	
00126	Oct	12	3923 B.C.E.	17:30:28	0288832.2294899	-3923	Oct 13 22:59:49	106160	LPU	Dec.	0.4564	2.0119	1.0291	310	188	02.5	3.6S	98.6E	13	06	3923 B.C.E.
00127	Apr	08	3922 B.C.E.	06:59:59	0289009.7912724	-3922	Apr 09 12:28:07	106123	LTU	Asc.	0.0193	2.8567	1.7892	374	236	10.7	5.6N	102.1W	14	12	3922 B.C.E.
00128	Oct	02	3922 B.C.E.	09:05:03	0289186.8785124	-3922	Oct 03 14:33:46	106123	LTU	Dec.	-0.2070	2.4651	1.4912	318	204	08.8	8.5S	134.4W	14	06	3922 B.C.E.
00129	Mar	27	3921 B.C.E.	08:00:47	0289363.8338733	-3921	Mar 28 13:28:52	106085	LPU	Asc.	0.7768	1.4595	0.4064	319	146	10.4	11.6	116.1W	13	12	3921 B.C.E.
00130	Sep	20	3921 B.C.E.	03:30:12	0289541.4640292	-3921	Sep 22 04:36:16	106085	LPU	Dec.	-0.9048	1.2025	0.1934	274	097	13.2S	15.2E	15	06	3921 B.C.E.	
00131	Feb	15	3920 B.C.E.	04:36:00	0289688.6916716	-3920	Feb 16 10:03:28	106047	LNN	Asc.	-1.1612	0.7189	-0.2644	221	---	20.3N	64.1W	13	11	3920 B.C.E.	
00132	Mar	16	3920 B.C.E.	14:26:49	0289718.1019610	-3920	Mar 17 19:54:16	106047	LNN	Asc.	1.4842	0.1365	-0.6670	105	---	14.9N	148.4E	13	12	3920 B.C.E.	
00133	Aug	11	3920 B.C.E.	14:55:09	0289866.1216360	-3920	Aug 12 20:22:36	106047	LNN	Dec.	1.2654	0.5763	-0.5032	222	---	21.8S	136.6E	14	04	3920 B.C.E.	
00134	Feb	04	3919 B.C.E.	15:54:24	0290043.3244011	-3919	Feb 06 01:21:14	106010	LPU	Asc.	-0.4123	2.0779	1.1246	307	188	05.1	22.7N	65.9E	14	10	3919 B.C.E.
00135	Jul	31	3919 B.C.E.	14:46:33	0290220.1156655	-3919	Aug 01 20:13:24	106010	LPU	Dec.	0.5699	1.8563	0.7692	351	192	23.4S	137.8E	13	04	3919 B.C.E.	
00136	Jan	25	3918 B.C.E.	12:24:56	0290398.0173123	-3918	Jan 26 17:51:07	105972	LPU	Asc.	0.2974	2.2955	1.3290	317	200	07.8	24.3N	177.4E	14	10	3918 B.C.E.
00137	Jul	20	3918 B.C.E.	17:02:03	0290574.2097537	-3918	Jul 21 22:28:17	105972	LTU	Dec.	-0.1719	2.5657	1.5200	356	225	29.6	24.2S	102.8E	14	04	3918 B.C.E.
00138	Jan	15	3917 B.C.E.	01:26:38	0290752.5601591	-3917	Jan 16 06:52:12	105934	LNN	Asc.	1.0543	0.9233	-0.0849	254	---	25.0N	19.1W	15	10	3917 B.C.E.	
00139	Jul	09	3917 B.C.E.	02:32:22	0290928.6058152	-3917	Jul 10 07:57:58	105934	LPU	Dec.	-0.8944	1.2101	0.2235	273	100	24.1S	40.8W	13	03	3917 B.C.E.	
00140	Dec	04	3917 B.C.E.	13:37:54	0291077.7069822	-3917	Dec 05 19:03:28	105934	LNN	Asc.	-1.1357	0.8246	-0.2753	263	---	15.7N	155.7E	14	08	3917 B.C.E.	
00141	May	30	3916 B.C.E.	10:48:12	0291253.9501347	-3916	May 31 16:13:07	105896	LPU	Dec.	0.9390	1.0160	0.1638	252	069	13.1S	164.3W	14	02	3916 B.C.E.	
00142	Nov	23	3916 B.C.E.	12:48:55	0291431.0339680	-3916	Nov 24 18:13:53	105896	LPU	Dec.	-0.4521	2.0758	0.9819	358	207	12.5N	167.6E	13	08	3916 B.C.E.	
00143	May	20	3915 B.C.E.	02:54:44	0291608.1231452	-3915	May 21 08:19:01	105859	LTU	Dec.	0.2097	2.4583	1.4879	327	209	09.1	10.2S	45.5W	15	01	3915 B.C.E.
00144	Nov	12	3915 B.C.E.	16:42:36	0291785.1962528	-3915	Nov 13 22:06:57	105859	LTU	Dec.	0.2548	2.4129	1.3686	346	216	08.4	8.9N	109.1E	13	07	3915 B.C.E.
00145	May	09	3914 B.C.E.	13:45:15	0291963.0730914	-3914	May 10 19:08:55	105821	LPU	Dec.	-0.5860	1.7944	0.7713	328	185	6.9S	152.5E	14	01	3914 B.C.E.	
00146	Nov	02	3914 B.C.E.	03:47:54	0292139.6582688	-3914	Nov 03 09:11:36	105821	LPU	Asc.	0.9180	1.1694	0.1778	265	089	5.2N	57.1W	13	07	3914 B.C.E.	
00147	Mar	29	3913 B.C.E.	02:46:33	0292287.1566629	-3913	Mar 30 08:09:36	105783	LNN	Dec.	1.4360	0.2580	-0.8110	155	---	10.2N	37.3W	14	12	3913 B.C.E.	
00148	Apr	27	3913 B.C.E.	17:29:12	0292371.2286071	-3913	Apr 28 22:52:14	105783	LNN	Dec.	-1.3929	0.3340	-0.7288	174	---	3.3S	97.5E	15	01	3913 B.C.E.	
00149	Sep	22	3913 B.C.E.	08:09:49	0292464.8901489	-3913	Sep 23 13:32:52	105783	LNN	Asc.	-1.1316	0.7711	-0.2079	221	---	12.9S	119.9W	14	06	3913 B.C.E.	
00150	Oct	21	3913 B.C.E.	19:01:10	0292494.2924764	-3913	Oct 23 00:24:13	105783	LNN	Asc.	1.5399	0.0186	-0.9538	036	---	1.3N	74.8E	14	07	3913 B.C.E.	
00151	Mar	18	3912 B.C.E.	04:43:04	0292641.6965795	-3912	Mar 19 10:05:31	105746	LPU	Dec.	0.6537	1.6798	0.6376	329	175	13.5N	65.9W	13	12	3912 B.C.E.	
00152	Sep	11	3912 B.C.E.	21:00:56	0292819.3756479	-3912	Sep 13 02:23:20	105746	LPU	Asc.	-0.4807	1.9879	0.9643	326	194	16.0S	47.0E	15	05	3912 B.C.E.	
00153	Mar	07	3911 B.C.E.	13:08:40	0292996.0476893	-3911	Mar 08 18:30:31	105708	LTU	Dec.	-0.1385	2.5989	1.6089	336	217	09.7	16.3N	167.9E	13	11	3911 B.C.E.
00154	Sep	01	3911 B.C.E.	13:13:25	0293173.6343182	-3911	Sep 02 08:35:12	105708	LTU	Asc.	0.2304	2.4739	1.3973	364	225	08.9	18.6S	46.7W	14	05	3911 B.C.E.
00155	Feb	25	3910 B.C.E.	03:49:17	0293350.6592301	-3910	Feb 26 09:10:28	105670	LPU	Dec.	-0.8649	1.2468	0.2948	265	104	18.5N	52.4W	13	11	3910 B.C.E.	
00156	Aug	21	3910 B.C.E.	03:23:42	0293527.6144598	-3910	Aug 22 08:44:52	105670	LPU	Asc.	0.9418	1.1785	0.0824	304	070	20.6S	50.1W	14	05	3910 B.C.E.	
00157	Jan	16	3909 B.C.E.	11:47:22																	

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar	Date on the Calendar Month Year
00215	Apr 17 3885 B.C.E.	21:14:51	0302534.3853137	-3885 Apr 19 02:20:22	104730	LPU	Asc.	0.6092	1.7633	0.7177	336 184	---	2.1N 43.0E	14 13 3885 B.C.E.	
00216	Apr 12 3885 B.C.E.	16:43:05	0302712.1965904	-3885 Oct 13 21:48:35	104730	LPU	Dec.	-0.9147	1.1887	0.1710	275 092	---	4.6S 110.8E	15 06 3885 B.C.E.	
00217	Mar 08 3884 B.C.E.	19:51:24	0302859.3273598	-3884 Mar 10 00:56:17	104693	LNN	Asc.	-1.2684	0.5166	-0.4553	189 ---	---	14.7N 66.9E	13 11 3884 B.C.E.	
00218	Apr 07 3884 B.C.E.	04:46:21	0302888.6988580	-3884 Apr 08 09:51:15	104693	LNN	Asc.	1.3331	0.4086	-0.5846	175 ---	---	7.0N 68.4W	13 12 3884 B.C.E.	
00219	Sep 02 3884 B.C.E.	06:26:48	0303036.7686136	-3884 Sep 03 11:31:41	104693	LNN	Dec.	-1.3164	0.4881	-0.6020	208 ---	---	17.2S 95.1W	14 05 3884 B.C.E.	
00220	Feb 26 3883 B.C.E.	11:51:29	0303213.9940825	-3883 Feb 27 16:55:44	104655	LPU	Asc.	-0.5151	1.8858	0.9393	299 176	---	18.4N 172.7W	13 11 3883 B.C.E.	
00221	Aug 22 3883 B.C.E.	05:51:25	0303390.7440359	-3883 Aug 23 10:55:40	104655	LPU	Dec.	-0.6353	1.7388	0.6466	345 180	---	20.5S 86.7W	13 05 3883 B.C.E.	
00222	Feb 16 3882 B.C.E.	04:29:47	0303568.6873510	-3882 Feb 17 09:33:24	104618	LTU	Asc.	0.2070	2.4603	1.4957	321 206	090	21.5N 62.3W	14 11 3882 B.C.E.	
00223	Aug 11 3882 B.C.E.	08:29:40	0303744.8539314	-3882 Aug 12 13:33:20	104618	LTU	Dec.	-0.0941	2.7088	1.6626	356 226	101	23.1S 127.0W	13 04 3882 B.C.E.	
00224	Feb 05 3881 B.C.E.	17:08:39	0303923.2143395	-3881 Feb 06 22:11:39	104581	LPU	Asc.	0.9812	1.0664	0.0490	270 051	---	23.9N 107.4E	15 10 3881 B.C.E.	
00225	Jul 30 3881 B.C.E.	18:32:36	0304099.2726391	-3881 Jul 31 23:35:38	104581	LPU	Dec.	-0.8040	1.3762	0.3892	283 130	---	24.7S 81.2E	13 04 3881 B.C.E.	
00226	Dec 26 3881 B.C.E.	05:20:25	0304247.7225073	-3881 Dec 27 10:23:25	104581	LNN	Asc.	-1.1762	0.7481	-0.3475	253 ---	---	21.0N 78.9W	14 09 3881 B.C.E.	
00227	Jun 21 3880 B.C.E.	02:15:49	0304424.5943201	-3880 Jun 22 07:18:12	104543	LNN	Dec.	-1.0701	0.8681	-0.0796	229 ---	---	19.1S 36.8W	14 03 3880 B.C.E.	
00228	Jul 20 3880 B.C.E.	10:01:06	0304453.9174291	-3880 Jul 21 15:03:29	104543	LNN	Dec.	-1.4650	0.1466	-0.8071	101 ---	---	25.5S 152.1W	13 04 3880 B.C.E.	
00229	Dec 15 3880 B.C.E.	04:58:12	0304601.7070793	-3880 Dec 16 10:00:36	104543	LPU	Asc.	-0.4750	2.0292	0.9445	354 204	---	19.2N 74.3W	13 09 3880 B.C.E.	
00230	Jun 10 3879 B.C.E.	17:42:44	0304779.2380067	-3879 Jun 11 22:44:28	104506	LTU	Dec.	0.3572	2.1926	1.2123	324 202	066	17.1S 91.3E	15 02 3879 B.C.E.	
00231	Dec 04 3879 B.C.E.	09:51:01	0304955.1010438	-3879 Dec 05 14:52:50	104506	LPU	Asc.	0.2443	2.4272	1.3929	343 216	086	16.7N 148.1W	12 08 3879 B.C.E.	
00232	May 31 3878 B.C.E.	03:29:06	0305133.6452113	-3878 Jun 01 08:30:13	104468	LTU	Dec.	-0.4258	2.0933	1.0604	344 207	039	14.5S 55.2W	15 02 3878 B.C.E.	
00233	Nov 23 3878 B.C.E.	21:43:08	0305310.4049523	-3878 Nov 25 02:44:16	104468	LPU	Asc.	-0.9129	1.1733	1.0922	264 090	---	13.8N 33.4E	13 08 3878 B.C.E.	
00234	May 19 3877 B.C.E.	06:20:12	0305487.7640302	-3877 May 20 11:20:42	104430	LNN	Dec.	-1.2184	0.6562	-0.4106	237 ---	---	11.3S 97.5W	14 01 3877 B.C.E.	
00235	Oct 14 3877 B.C.E.	02:07:39	0305665.5886459	-3877 Oct 15 07:08:09	104430	LNN	Asc.	-1.1392	0.7602	-0.2247	221 ---	---	4.2S 30.2W	14 06 3877 B.C.E.	
00236	Nov 12 3877 B.C.E.	13:12:03	0305665.5886459	-3877 Nov 13 18:12:34	104430	LNN	Asc.	1.5419	0.0149	-0.9573	033 ---	---	10.3N 161.1E	13 07 3877 B.C.E.	
00237	Apr 08 3876 B.C.E.	18:17:45	0305812.2623312	-3876 Apr 09 23:17:39	104393	LPU	Dec.	0.8137	1.3815	0.3488	306 134	---	5.8N 88.5E	14 12 3876 B.C.E.	
00238	Oct 03 3876 B.C.E.	14:14:17	0305990.0932550	-3876 Oct 04 19:14:10	104394	LPU	Asc.	-0.4951	1.9666	0.9328	328 193	---	7.9S 148.3E	14 06 3876 B.C.E.	
00239	Mar 29 3876 B.C.E.	03:51:13	0306166.6605637	-3875 Mar 30 08:50:32	104356	LTU	Dec.	0.0066	2.8355	1.8561	334 217	102	9.2N 54.1W	13 12 3876 B.C.E.	
00240	Sep 22 3875 B.C.E.	19:25:38	0306344.3094634	-3875 Sep 24 00:24:52	104356	LTU	Asc.	0.2044	2.5267	1.4401	368 227	092	11.6S 70.5E	15 06 3875 B.C.E.	
00241	Mar 18 3874 B.C.E.	19:17:13	0306521.3036230	-3874 Mar 20 00:15:52	104319	LPU	Dec.	-0.7341	1.4833	0.5383	280 139	---	12.2N 74.9E	14 12 3874 B.C.E.	
00242	Sep 11 3874 B.C.E.	18:59:17	0306698.2911640	-3874 Sep 12 23:57:56	104319	LPU	Asc.	0.8977	1.2621	0.1604	312 097	---	14.9S 76.8E	14 05 3874 B.C.E.	
00243	Feb 07 3873 B.C.E.	03:59:38	0306864.6664166	-3873 Feb 08 08:57:39	104281	LNN	Dec.	-1.1062	0.8176	-0.1613	231 ---	---	23.9N 55.0W	14 10 3873 B.C.E.	
00244	Mar 07 3873 B.C.E.	12:23:27	0306876.0162858	-3873 Mar 08 17:21:28	104281	LNN	Dec.	-1.4576	0.1595	-0.7927	106 ---	---	14.9N 178.6E	14 11 3873 B.C.E.	
00245	Aug 01 3873 B.C.E.	05:40:58	0307022.7367809	-3873 Aug 02 10:39:00	104281	LNN	Asc.	-1.2477	0.4957	-0.5304	196 ---	---	25.1S 85.5W	13 04 3873 B.C.E.	
00246	Aug 30 3873 B.C.E.	20:03:08	0307052.3355104	-3873 Sep 01 01:01:09	104281	LNN	Asc.	1.5470	0.0522	-1.0125	069 ---	---	17.6S 60.4E	13 05 3873 B.C.E.	
00247	Jan 26 3872 B.C.E.	14:41:26	0307201.1121063	-3872 Jan 27 19:38:48	104244	LPU	Dec.	0.4049	2.1339	1.0968	342 207	048	24.2N 143.5E	14 10 3872 B.C.E.	
00248	Jul 21 3872 B.C.E.	17:44:42	0307377.2393738	-3872 Jul 22 22:42:07	104244	LPU	Asc.	-0.5218	1.8862	0.9146	307 180	---	24.6S 92.4E	14 04 3872 B.C.E.	
00249	Jan 15 3871 B.C.E.	17:57:38	0307555.2483543	-3871 Jan 16 22:54:23	104206	LPU	Dec.	-0.3301	2.2950	1.2103	367 221	071	23.8N 93.3E	14 10 3871 B.C.E.	
00250	Jul 11 3871 B.C.E.	10:02:58	0307731.9187282	-3871 Jul 12 14:59:44	104206	LPU	Asc.	0.1956	2.4744	1.5235	315 202	090	23.2S 153.1W	14 03 3871 B.C.E.	
00251	Jan 04 3870 B.C.E.	17:35:15	0307909.3228152	-3870 Jan 05 22:31:23	104168	LNT	Dec.	-1.0342	1.0039	-0.0823	283 ---	---	22.4N 97.9E	14 09 3870 B.C.E.	
00252	Jul 01 3870 B.C.E.	01:58:56	0308086.5825900	-3870 Jul 02 06:55:04	104168	LPU	Asc.	0.9340	1.1312	0.1569	263 079	---	21.1S 32.6W	15 03 3870 B.C.E.	
00253	Nov 25 3870 B.C.E.	07:21:10	0308253.8063652	-3870 Nov 26 12:17:18	104168	LNN	Dec.	-1.1517	0.7543	-0.2646	230 ---	---	14.5N 111.0W	13 08 3870 B.C.E.	
00254	May 21 3869 B.C.E.	00:33:07	0308411.5229934	-3869 May 22 05:28:38	104132	LPU	Asc.	-0.9944	1.0563	0.0111	281 025	---	11.9S 10.6W	15 02 3869 B.C.E.	
00255	Nov 13 3869 B.C.E.	20:39:39	0308588.3680726	-3869 Nov 15 01:35:12	104132	LPU	Dec.	0.4394	2.0463	1.0628	309 188	037	9.9N 49.8E	13 08 3869 B.C.E.	
00256	May 10 3868 B.C.E.	02:08:18	0308765.5891020	-3868 May 11 07:03:13	104094	LTU	Asc.	-0.2443	2.4442	1.3761	370 229	090	7.2S 33.2W	14 01 3868 B.C.E.	
00257	Nov 03 3868 B.C.E.	12:17:07	0308943.0118850	-3868 Nov 04 17:12:00	104094	LTU	Dec.	-0.2218	2.4402	1.4618	319 204	087	5.0N 176.0E	14 07 3868 B.C.E.	
00258	Apr 29 3867 B.C.E.	03:51:33	0309119.6680831	-3867 Apr 30 08:45:52	104057	LPU	Asc.	0.5233	1.9193	0.8768	342 197	---	2.2S 57.5W	15 01 3867 B.C.E.	
00259	Oct 24 3867 B.C.E.	01:33:14	0309297.5674452	-3867 Oct 25 06:27:31	104057	LPU	Dec.	-0.9231	1.1750	0.1538	275 088	---	0.0S 22.3W	15 07 3867 B.C.E.	
00260	Mar 20 3866 B.C.E.	03:21:40	0309444.6400445	-3866 Mar 21 08:15:19	104019	LNN	Asc.	-1.3287	0.4034	-0.5635	168 ---	---	11.1N 46.3W	13 12 3866 B.C.E.	
00261	Apr 18 3866 B.C.E.	11:54:44	0309473.9963377	-3866 Apr 19 16:48:23	104019	LNN	Asc.	1.2544	0.5507	-0.4382	200 ---	---	2.7N 176.8W	13 13 3866 B.C.E.	
00262	Sep 13 3866 B.C.E.	14:24:26	0309622.1003036	-3866 Sep 14 19:18:05	104019	LNN	Dec.	-1.3311	0.4634	-0.6312	203 ---	---	13.9S 145.6E	14 05 3866 B.C.E.	
00263	Mar 08 3865 B.C.E.	19:40:36	0309799.3198558	-3865 Mar 10 00:33:38	103982	LPU	Dec.	-0.5743	1.7759	0.8322	295 168	---	15.2N 69.4E	14 11 3865 B.C.E.	
00264	Sep 01 3865 B.C.E.	13:37:34	0309976.0677515	-3865 Sep 02 18:30:36	103982	LPU	Dec.	0.6567	1.7006	0.6065	342 175	---	17.9S 157.3E	13 05 3865 B.C.E.	
00265	Feb 26 3864 B.C.E.	12:19:49	0310154.0137580	-3864 Feb 27 17:12:11	103944	LPU	Asc.	0.1528	2.5596	1.5954	324 208	095	18.9N 179.1W	14 11 3864 B.C.E.	
00266	Aug 21 3864 B.C.E.	16:29:32	0310330.1871760	-3864 Aug 22 21:21:58	103944	LTU	Dec.	-0.0678	2.7571	1.7108	355 226	102	21.2S 113.8E	12 05 3864 B.C.E.	
00267	Feb 16 3863 B.C.E.	00:42:59	0310508.5298477	-3863 Feb 17 05:34:45	103907	LPU	Asc.	0.9332	1.1546	0.1368	279 085	---	22.1N 5.5W	15 11 3863 B.C.E.	
00268	Aug 11 3863 B.C.E.	02:47:47	0310684.6165196	-3863 Aug 12 07:39:36	103908	LPU	Dec.	-0.7709	1.4372	0.4488	287 138	---	23.7S 41.5W	13 04 3863 B.C.E.	
00269	Jan 06 3862 B.C.E.	12:57:43	0310833.0400814	-3862 Jan 07 17:48:54	103870	LNN	Asc.	-1.2067	0.6908	-0.4020	244 ---	---	22.4N 167.6E	14 09 3862 B.C.E.	
00270	Jul 02 3862 B.C.E.	10:09:00	0311009.9229174	-3862 Jul 03 15:00:10	103870	LNN	Dec.	1.1273	0.7652	-0.1862	218 ---	---	21.1S 154.8W	1	

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time (UT)	Year	Month	Day		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
00322	Dec	04	3841	B.C.E.	07:09:50	0318835	7984953	-3841	Dec	05	11:47:56	103087	LNN	Asc.	1.5364	0.0240	-0.9463	042	---	---	18.2N	108.4W	13	08	3841	B.C.E.
00323	Apr	30	3840	B.C.E.	07:51:05	0318982	8271390	-3840	May	01	12:28:36	103050	LPU	Dec.	0.9771	1.0778	0.0528	277	054	---	2.5S	117.3W	13	01	3840	B.C.E.
00324	Oct	25	3840	B.C.E.	07:38:25	0319160	8183459	-3840	Oct	26	12:15:53	103050	LPU	Dec.	-0.4974	1.9663	0.9248	331	193	---	1.1N	113.8W	14	07	3840	B.C.E.
00325	Apr	19	3839	B.C.E.	18:25:33	0319337	2677718	-3839	Apr	20	23:02:28	103013	LTU	Dec.	0.1626	2.5452	1.5741	329	212	095	1.0N	85.0E	13	01	3839	B.C.E.
00326	Oct	14	3839	B.C.E.	11:55:48	0319514	9970816	-3839	Oct	15	16:32:39	103013	LTU	Dec.	0.1949	2.5478	1.4539	370	228	094	2.9S	177.9W	14	07	3839	B.C.E.
00327	Apr	09	3838	B.C.E.	10:28:49	0319691	9366739	-3838	Apr	10	15:05:04	102975	LPU	Dec.	-0.5881	1.7490	0.8084	293	166	---	4.4N	154.9W	13	13	3838	B.C.E.
00328	Oct	03	3838	B.C.E.	11:04:46	0319868	9616459	-3838	Oct	04	15:41:01	102975	LPU	Asc.	0.8756	1.3042	0.1996	316	107	---	7.0S	164.9W	13	06	3838	B.C.E.
00329	Feb	28	3837	B.C.E.	19:32:39	0320017	3143446	-3837	Mar	01	00:08:17	102938	LNN	Dec.	1.2222	0.6048	-0.3742	204	---	---	19.4N	72.6E	15	11	3837	B.C.E.
00330	Mar	29	3837	B.C.E.	03:36:40	0320046	6504660	-3837	Mar	30	08:12:19	102938	LNN	Dec.	-1.3293	0.3951	-0.5574	164	---	---	7.7N	51.2W	14	12	3837	B.C.E.
00331	Aug	22	3837	B.C.E.	21:51:14	0320193	4105751	-3837	Aug	24	02:26:52	102938	LNN	Asc.	-1.3418	0.4091	-0.6169	178	---	---	22.0S	33.9E	13	05	3837	B.C.E.
00332	Sep	21	3837	B.C.E.	12:32:13	0320223	6223692	-3837	Sep	22	17:07:52	102938	LNN	Asc.	-1.5139	0.1125	-0.9514	100	---	---	10.7S	173.3E	12	06	3837	B.C.E.
00333	Feb	17	3836	B.C.E.	05:39:29	0320371	7357556	-3836	Feb	18	10:14:29	102901	LPU	Dec.	0.5125	1.9365	0.8993	337	196	---	21.3N	79.6W	14	11	3836	B.C.E.
00334	Aug	12	3836	B.C.E.	10:17:48	0320547	9290246	-3836	Aug	13	14:52:50	102902	LPU	Dec.	-0.5872	1.7673	0.7937	300	171	---	23.3S	153.8W	13	04	3836	B.C.E.
00335	Feb	06	3835	B.C.E.	08:28:20	0320725	8530064	-3835	Feb	07	13:02:43	102864	LTU	Dec.	-0.2332	2.4705	1.3906	371	229	090	22.6N	122.5W	14	10	3835	B.C.E.
00336	Aug	02	3835	B.C.E.	02:28:44	0320902	6032902	-3835	Aug	03	07:03:08	102864	LTU	Asc.	0.1143	2.6271	1.6690	318	205	096	23.7S	37.6W	14	04	3835	B.C.E.
00337	Jan	26	3834	B.C.E.	08:31:09	0321079	8549709	-3834	Jan	27	13:04:57	102827	LPU	Dec.	-0.9540	1.1454	0.0702	296	064	---	23.0N	124.2W	13	10	3834	B.C.E.
00338	Jul	22	3834	B.C.E.	17:42:45	0321936	2380204	-3834	Jul	23	22:16:31	102827	LPU	Asc.	0.8437	1.3031	0.3167	279	118	---	23.2S	92.8E	15	04	3834	B.C.E.
00339	Dec	17	3834	B.C.E.	00:35:02	0321404	5243249	-3834	Dec	18	05:08:49	102827	LNN	Dec.	1.1562	0.7406	-0.2675	226	---	---	21.1N	8.7W	13	09	3834	B.C.E.
00340	Jun	11	3833	B.C.E.	14:02:15	0321582	0848937	-3833	Jun	12	18:35:25	102790	LNN	Dec.	-1.1516	0.7727	-0.2820	250	---	---	18.9S	146.0E	14	02	3833	B.C.E.
00341	Dec	05	3833	B.C.E.	14:33:33	0321759	1066262	-3833	Dec	06	19:06:43	102790	LTU	Dec.	0.4410	2.0348	1.0628	308	187	037	17.6N	141.2E	13	08	3833	B.C.E.
00342	May	31	3832	B.C.E.	15:02:28	0321936	2677083	-3832	Jun	01	19:35:01	102753	LTU	Dec.	-0.4133	2.1353	1.0648	362	215	041	14.9S	51.2E	13	02	3832	B.C.E.
00343	Nov	25	3832	B.C.E.	06:18:48	0322113	7630572	-3832	Nov	26	10:51:20	102753	LTU	Dec.	-0.2273	2.4303	1.4514	320	204	086	13.5N	95.1W	14	08	3832	B.C.E.
00344	Oct	20	3831	B.C.E.	17:14:37	0322290	2184882	-3831	May	21	21:46:34	102715	LPU	Asc.	0.3560	2.2238	1.1860	351	215	066	10.5S	99.4E	14	02	3831	B.C.E.
00345	Nov	14	3831	B.C.E.	19:08:59	0322468	2979041	-3831	Nov	15	23:40:53	102715	LPU	Dec.	-0.9384	1.1494	0.1233	274	079	---	8.9N	72.8E	15	08	3831	B.C.E.
00346	Apr	10	3830	B.C.E.	18:13:26	0322550	5932343	-3830	Apr	11	22:44:44	102678	LNN	Asc.	-1.4756	0.1627	-0.7960	109	---	---	3.0N	88.6E	14	13	3830	B.C.E.
00347	May	10	3830	B.C.E.	02:15:35	0322644	5941605	-3830	May	11	06:46:54	102678	LNN	Asc.	0.1965	0.8371	-0.1451	238	---	---	5.8S	34.5W	13	01	3830	B.C.E.
00348	Oct	05	3830	B.C.E.	06:36:30	0322792	7753471	-3830	Oct	06	11:07:47	102678	LNN	Dec.	1.3439	0.4435	-0.6581	200	---	---	5.8S	97.9W	14	06	3830	B.C.E.
00349	Mar	30	3829	B.C.E.	11:00:25	0322969	9586282	-3829	Mar	31	15:31:08	102642	LPU	Asc.	-0.7072	1.5302	0.5902	282	144	---	7.7N	161.8W	14	12	3829	B.C.E.
00350	Sep	23	3829	B.C.E.	05:38:11	0323146	7348528	-3829	Sep	24	10:08:54	102642	LPU	Dec.	0.6759	1.6664	0.5701	339	170	---	10.7S	82.8W	13	06	3829	B.C.E.
00351	Mar	20	3828	B.C.E.	03:34:15	0323324	6487901	-3828	Mar	21	08:04:17	102604	LTU	Asc.	0.0261	2.7925	1.8275	327	212	101	12.1N	49.1W	14	12	3828	B.C.E.
00352	Sep	12	3828	B.C.E.	08:59:23	0323500	8745671	-3828	Sep	13	13:29:29	102604	LTU	Dec.	-0.0386	2.8103	1.7647	353	225	102	15.2S	132.9W	13	05	3828	B.C.E.
00353	Apr	09	3827	B.C.E.	15:22:12	0323679	3402114	-3827	Apr	10	19:51:39	102567	LPU	Asc.	0.8169	1.3689	0.3494	299	132	---	16.4N	134.7E	14	11	3827	B.C.E.
00354	Sep	01	3827	B.C.E.	19:46:44	0323855	1042124	-3827	Sep	03	00:16:12	102567	LPU	Dec.	-0.7277	1.5169	0.5286	290	148	---	19.2S	65.2E	13	05	3827	B.C.E.
00355	Jan	28	3826	B.C.E.	03:41:05	0324003	6535303	-3826	Jan	29	08:09:55	102530	LNN	Asc.	-1.2895	0.5354	-0.5505	218	---	---	22.6N	51.3W	14	10	3826	B.C.E.
00356	Jul	24	3826	B.C.E.	02:15:25	0324180	5940353	-3826	Jul	25	06:44:15	102530	LNN	Dec.	1.2231	0.5935	-0.3664	196	---	---	22.9S	35.0W	14	04	3826	B.C.E.
00357	Aug	22	3826	B.C.E.	11:15:29	0324209	9690873	-3826	Aug	23	15:44:19	102530	LNN	Dec.	-1.3741	0.3176	-0.6445	147	---	---	22.4S	167.5W	13	05	3826	B.C.E.
00358	Jan	17	3825	B.C.E.	04:17:39	0324357	6789228	-3825	Jan	18	08:45:53	102493	LPU	Dec.	-0.5558	1.8722	0.8050	343	192	---	23.6N	61.5W	13	10	3825	B.C.E.
00359	Jul	12	3825	B.C.E.	16:29:31	0324535	8171688	-3825	Jul	13	20:57:43	102493	LPU	Dec.	0.5399	1.8666	0.8680	317	186	---	23.1S	150.5E	14	03	3825	B.C.E.
00360	Jan	05	3824	B.C.E.	10:52:21	0324711	9530193	-3824	Jan	06	15:19:58	102455	LPU	Dec.	0.1900	2.5174	1.5017	340	217	093	23.6N	161.3W	13	09	3824	B.C.E.
00361	Jul	02	3824	B.C.E.	00:28:53	0324889	5200539	-3824	Jul	03	04:56:26	102455	LTU	Dec.	-0.2138	2.4912	1.4407	359	225	092	22.5S	10.2W	15	03	3824	B.C.E.
00362	Dec	26	3824	B.C.E.	00:01:48	0325066	5012459	-3824	Dec	27	04:29:23	102455	LPU	Asc.	0.8750	1.2387	0.2659	266	103	---	22.9N	0.1E	13	09	3824	B.C.E.
00363	Jun	21	3823	B.C.E.	02:02:55	0325243	5853559	-3823	Jun	22	06:29:52	102418	LPU	Dec.	-0.9774	1.1027	0.0272	295	041	---	21.0S	34.3W	14	03	3823	B.C.E.
00364	Nov	16	3823	B.C.E.	05:08:52	0325391	7144884	-3823	Nov	17	09:35:50	102418	LNN	Asc.	-1.1446	0.7528	-0.2371	222	---	---	9.3N	77.1W	14	08	3823	B.C.E.
00365	Dec	15	3823	B.C.E.	15:59:46	0325421	1665089	-3823	Dec	16	20:26:45	102418	LNN	Asc.	1.5279	0.0388	-0.9301	053	---	---	21.2N	119.6E	14	09	3823	B.C.E.
00366	May	11	3822	B.C.E.	14:41:28	0325568	1121285	-3822	May	12	19:07:50	102382	LNN	Dec.	1.0569	0.9299	-0.0919	260	---	---	6.6S	139.0E	13	01	3822	B.C.E.
00367	Nov	05	3822	B.C.E.	16:19:35	0325746	1802680	-3822	Nov	06	20:45:56	102382	LPU	Dec.	-0.4981	1.9665	0.9221	332	194	---	5.6N	115.4E	15	07	3822	B.C.E.
00368	Apr	30	3821	B.C.E.	01:43:18	0325922	5717416	-3821	May	01	06:09:05	102345	LTU	Dec.	0.2413	2.3991	1.4312	325	207	087	3.2S	25.7W	13	01	3821	B.C.E.
00369	Oct	24	3821	B.C.E.	20:14:22	0326100	3433092	-3821	Oct	26	00:40:05	102345	LTU	Asc.	0.1938	2.5511	1.4548	371	228	094	1.6N	56.9E	14	07	3821	B.C.E.
00370	Apr	19	3820	B.C.E.	17:59:40	0326277	2497713	-3820	Apr	20	22:24:48	102308	LPU	Dec.	-0.5104	1.8908	0.9516	299	176	---	0.3N	91.1E	14	01	3820	B.C.E.
00371	Oct	13	3820	B.C.E.																						

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar				
	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Date and Time of Maximum Eclipse	Type		Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen.	Par. Tot.	Lat.	Lon.	Day	Month	Year	
00429	Aug	01	18:39:46	0334782.2776110	-3797	Aug 02 22:50:42	101457	LNN	Asc.	1.5619	0.0183	-1.0335	040	---	22.4S	79.4E	15	04	3797	B.C.E.
00430	Dec	27	08:04:07	0334929.8361918	-3797	Dec 28 12:15:04	101457	LTU	Dec.	0.4643	1.9885	1.0235	305	184	22.8N	120.1W	13	09	3797	B.C.E.
00431	Jun	22	04:18:20	0335106.6794034	-3796	Jun 23 08:28:41	101420	LPU	Asc.	-0.5649	1.8589	0.7848	350	194	21.0S	67.9W	14	03	3796	B.C.E.
00432	Dec	16	23:58:53	0335284.4992235	-3796	Dec 18 04:09:13	101421	LTU	Dec.	-0.2159	2.4508	1.4729	321	205	08.8N	20.0E	14	09	3796	B.C.E.
00433	Jun	11	07:00:46	0335460.7921997	-3795	Jun 12 11:10:32	101384	LPU	Asc.	0.2029	2.5035	1.4685	355	224	17.5S	108.3W	13	02	3795	B.C.E.
00434	Dec	06	12:26:31	0335639.0184172	-3795	Dec 07 16:36:14	101384	LPU	Dec.	-0.9420	1.1442	0.1152	276	077	16.4N	173.3E	14	08	3795	B.C.E.
00435	May	31	16:50:44	0335815.2018970	-3794	Jun 01 20:59:51	101347	LPU	Asc.	0.9455	1.1121	0.1340	264	074	13.6S	104.8E	14	02	3794	B.C.E.
00436	Oct	26	23:01:46	0335963.4595633	-3794	Oct 28 03:10:53	101347	LNN	Dec.	1.3437	0.4457	-0.6597	201	---	3.3N	14.6E	14	07	3794	B.C.E.
00437	Apr	21	02:06:20	0336140.5877332	-3793	Apr 22 06:14:50	101310	LPU	Asc.	-0.8512	1.2655	0.3264	264	106	0.8S	30.8W	14	01	3793	B.C.E.
00438	Oct	14	22:03:25	0336317.4190437	-3793	Oct 16 02:11:56	101310	LPU	Dec.	0.6760	1.6660	0.5703	338	170	2.0S	30.0E	13	07	3793	B.C.E.
00439	Apr	10	18:24:02	0336495.2666899	-3792	Apr 11 22:31:53	101273	LPU	Asc.	-0.1178	2.6259	1.6578	328	212	09.8N	86.3E	15	13	3792	B.C.E.
00440	Oct	04	02:01:55	0336671.5846629	-3792	Oct 05 06:09:50	101273	LTU	Dec.	-0.0339	2.8176	1.7745	350	223	7.1S	28.9W	13	06	3792	B.C.E.
00441	Mar	31	05:27:25	0336849.4273714	-3791	Apr 01 09:34:40	101236	LPU	Asc.	0.6773	1.6267	0.6039	318	168	8.8N	78.2W	15	12	3791	B.C.E.
00442	Sep	23	13:17:48	0337026.0540282	-3791	Sep 24 17:25:05	101236	LPU	Dec.	-0.7104	1.5486	0.5603	291	151	12.0S	162.6E	13	06	3791	B.C.E.
00443	Feb	18	17:45:20	0337174.2398132	-3790	Feb 19 21:51:59	101199	LNN	Asc.	-1.4000	0.3290	-0.7498	174	---	19.3N	98.7E	14	11	3790	B.C.E.
00444	Mar	20	09:16:42	0337203.8865939	-3790	Mar 21 13:23:20	101199	LNN	Asc.	1.4766	0.1820	-0.8841	130	---	13.4N	134.4W	14	12	3790	B.C.E.
00445	Aug	14	18:53:23	0337351.2870691	-3790	Aug 15 23:00:01	101199	LNN	Dec.	1.2903	0.4751	-0.4942	179	---	21.1S	77.2E	14	04	3790	B.C.E.
00446	Sep	13	04:44:54	0337380.6978451	-3790	Sep 14 08:51:33	101199	LNN	Dec.	-1.3488	0.3668	-0.6008	157	---	16.4S	68.9W	14	05	3790	B.C.E.
00447	Feb	07	19:08:48	0337528.2977807	-3789	Feb 08 23:14:51	101162	LPU	Asc.	-0.6443	1.7032	0.6489	331	176	22.0N	77.5E	13	10	3789	B.C.E.
00448	Oct	03	08:13:58	0337705.8430303	-3789	Oct 04 12:20:00	101163	LPU	Dec.	0.6269	1.7138	0.7018	313	173	23.1S	123.7W	14	04	3789	B.C.E.
00449	Jan	27	02:55:54	0337882.6221542	-3788	Jan 28 07:01:22	101126	LPU	Asc.	0.1213	2.6367	1.6344	338	218	23.9N	40.1W	13	10	3788	B.C.E.
00450	Jul	23	14:59:47	0338060.1248499	-3788	Jul 24 19:05:11	101126	LTU	Dec.	-0.1042	2.6987	1.6355	365	230	24.2S	133.8E	14	04	3788	B.C.E.
00451	Jan	16	16:58:52	0338237.2075463	-3787	Jan 17 21:03:41	101089	LPU	Asc.	0.8216	1.3222	0.3686	272	119	24.9N	108.1E	14	10	3787	B.C.E.
00452	Jul	12	15:47:19	0338414.1578637	-3787	Jul 13 19:52:09	101089	LPU	Dec.	-0.8461	1.3470	0.2649	318	123	24.3S	120.8E	13	03	3787	B.C.E.
00453	Dec	07	22:51:55	0338562.4527225	-3787	Dec 09 02:56:44	101089	LNN	Asc.	-1.1601	0.7248	-0.2661	219	---	16.7N	17.2E	14	08	3787	B.C.E.
00454	Jan	06	09:17:02	0338591.8869488	-3786	Jan 07 13:21:24	101052	LNN	Asc.	1.4952	0.0971	-0.8685	083	---	25.0N	137.8W	14	09	3786	B.C.E.
00455	Jun	02	14:36:03	0338738.6917027	-3786	Jun 03 08:40:15	101052	LNN	Dec.	1.2067	0.6526	-0.3646	222	---	14.0S	71.4W	13	02	3786	B.C.E.
00456	Jul	01	17:09:48	0338768.2151378	-3786	Jul 02 21:14:00	101052	LNN	Dec.	-1.5454	0.0482	-1.0029	066	---	23.6S	99.2E	14	03	3786	B.C.E.
00457	Nov	27	09:31:17	0338916.8967290	-3786	Nov 28 13:35:28	101052	LPU	Asc.	-0.5051	1.9557	0.9074	334	194	13.9N	143.1W	14	08	3786	B.C.E.
00458	May	21	16:26:00	0339093.1847229	-3785	May 22 20:29:36	101015	LTU	Dec.	0.3948	2.1153	1.1518	316	195	05.7N	111.5E	14	02	3785	B.C.E.
00459	Nov	15	12:45:29	0339271.0315826	-3785	Nov 16 16:49:02	101015	LTU	Asc.	0.1886	2.5617	1.4633	373	229	10.5N	168.2E	14	08	3785	B.C.E.
00460	May	11	09:02:37	0339447.8768189	-3784	May 12 13:05:35	100978	LTU	Dec.	-0.3562	2.1737	1.2346	308	191	06.7S	137.0W	14	01	3784	B.C.E.
00461	Nov	04	11:42:51	0339624.9808888	-3784	Nov 05 15:45:49	100978	LPU	Asc.	0.8642	1.3243	0.2215	316	112	6.6N	176.1W	13	07	3784	B.C.E.
00462	Apr	01	17:50:07	0339773.2431384	-3783	Apr 02 21:52:28	100941	LNN	Dec.	1.4407	0.2058	-0.7669	125	---	8.8N	96.5E	15	12	3783	B.C.E.
00463	May	01	01:53:31	0339802.5788274	-3783	May 02 05:55:51	100941	LNN	Dec.	-1.1134	0.7938	-0.1641	226	---	4.7S	29.0W	14	01	3783	B.C.E.
00464	Sep	24	13:16:50	0339949.4700177	-3783	Sep 26 03:19:11	100941	LNN	Asc.	-1.3652	0.3652	-0.6588	167	---	11.9S	13.2E	13	06	3783	B.C.E.
00465	Oct	24	14:02:04	0339979.0847695	-3783	Oct 25 18:04:24	100941	LNN	Asc.	1.4943	0.1456	-0.9126	112	---	2.5N	149.3E	12	07	3783	B.C.E.
00466	Mar	22	02:51:47	0340127.6192980	-3782	Mar 23 06:53:31	100905	LPU	Dec.	0.7284	1.5412	0.5020	319	158	12.1N	38.3W	15	12	3782	B.C.E.
00467	Sep	14	12:13:41	0340304.0050223	-3782	Sep 15 16:15:27	100905	LPU	Dec.	-0.6368	1.6778	0.7013	294	162	15.1S	178.8E	13	05	3782	B.C.E.
00468	Mar	10	05:01:06	0340481.7090944	-3781	Mar 11 09:02:12	100868	LTU	Dec.	-0.0275	2.8443	1.7714	375	236	10.6N	15.2W	14	11	3781	B.C.E.
00469	Sep	03	04:06:36	0340658.6712470	-3781	Sep 04 08:07:42	100868	LTU	Asc.	0.0411	2.7673	1.7978	321	208	17.8S	59.9W	14	05	3781	B.C.E.
00470	Feb	27	05:52:32	0340835.7448153	-3780	Feb 28 09:53:04	100831	LPU	Dec.	-0.7743	1.4666	0.4085	320	147	17.7N	83.1W	13	11	3780	B.C.E.
00471	Aug	23	18:13:17	0341013.2592255	-3780	Aug 24 22:13:47	100831	LPU	Asc.	0.7563	1.4730	0.4677	295	145	19.9S	87.7E	15	05	3780	B.C.E.
00472	Jan	18	01:34:32	0341190.5656518	-3779	Jan 19 05:34:26	100794	LNN	Dec.	-1.2131	0.6271	-0.3627	208	---	25.3N	20.5W	13	10	3779	B.C.E.
00473	Feb	16	12:18:11	0341960.0126260	-3779	Feb 17 16:18:05	100794	LNN	Dec.	-1.4694	0.1662	-0.8423	115	---	19.6N	179.9W	13	11	3779	B.C.E.
00474	Jul	14	10:55:54	0341337.9554812	-3779	Jul 15 14:55:47	100794	LNN	Asc.	-1.3482	0.4202	-0.6508	193	---	25.0S	166.0W	14	03	3779	B.C.E.
00475	Aug	13	02:23:09	0341367.9940442	-3779	Aug 14 06:23:03	100794	LNN	Asc.	1.5322	0.0761	-0.9823	082	---	21.2S	35.6W	15	04	3779	B.C.E.
00476	Jan	07	16:37:39	0341591.9281852	-3778	Jan 08 20:36:57	100757	LPU	Dec.	0.4871	1.9449	0.9835	303	181	24.1N	112.5E	14	09	3778	B.C.E.
00477	Jul	03	11:09:22	0341615.9648331	-3778	Jul 04 15:08:39	100757	LPU	Asc.	-0.6307	1.7392	0.6631	344	182	23.1S	170.2W	13	03	3778	B.C.E.
00478	Dec	28	08:37:47	0341869.8595739	-3778	Dec 29 12:37:03	100757	LTU	Dec.	-0.2011	2.4775	1.5005	322	206	22.2N	128.5W	14	09	3778	B.C.E.
00479	Jun	21	14:05:25	0342046.0870916	-3777	Jun 22 18:04:07	100720	LPU	Asc.	0.1338	2.6298	1.5956	355	226	10.0S	145.5E	13	03	3777	B.C.E.
00480	Dec	16	20:54:26	0342224.3711373	-3777	Dec 18 00:53:06	100720	LPU</												

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar			
										Pen.	Par.	Lat.	Lon.	Day	Month	Year	
00536	Mar 12 3754 B.C.E.	07:13:35	0350344.8011004	-3754	Mar 13 10:58:12	099877	LNN	Asc.	-1.5361	0.0758	-0.9961	085	---	13.3N	103.8W	14 12 3754 B.C.E.	
00537	Apr 10 3754 B.C.E.	22:15:46	0350374.4276142	-3754	Apr 12 02:00:22	099877	LNN	Asc.	1.3180	0.4728	-0.5928	205	---	5.2N	28.8E	14 13 3754 B.C.E.	
00538	Sep 05 3754 B.C.E.	12:02:57	0350522.0020498	-3754	Sep 06 15:47:34	099877	LNN	Dec.	1.3295	0.4078	-0.5708	167	---	16.0S	179.2W	14 05 3754 B.C.E.	
00539	Oct 04 3754 B.C.E.	22:39:16	0350551.4439392	-3754	Oct 06 02:23:54	099877	LNN	Dec.	-1.3457	0.3747	-0.5973	159	---	8.2S	22.1E	14 06 3754 B.C.E.	
00540	Feb 29 3753 B.C.E.	09:29:33	0350698.8955158	-3753	Mar 01 13:13:33	099840	LPU	Asc.	-0.7592	1.4859	0.4444	315	150	17.3N	137.3W	13 11 3753 B.C.E.	
00541	Aug 25 3753 B.C.E.	00:28:16	0350876.5196265	-3753	Aug 26 04:12:15	099840	LPU	Dec.	0.6841	1.6157	0.5903	311	163	19.5S	5.8W	15 05 3753 B.C.E.	
00542	Feb 17 3752 B.C.E.	18:29:00	0351053.2701376	-3752	Feb 18 22:12:25	099804	LPU	Asc.	0.0247	2.8074	1.8180	335	218	20.6N	87.9E	13 11 3752 B.C.E.	
00543	Aug 14 3752 B.C.E.	06:03:37	0351230.7525126	-3752	Aug 15 09:46:58	099804	LPU	Dec.	-0.0263	2.8479	1.7724	369	232	22.4S	90.2W	14 04 3752 B.C.E.	
00544	Feb 07 3751 B.C.E.	09:22:38	0351407.8907127	-3751	Feb 08 13:05:25	099767	LPU	Asc.	0.7415	1.4748	0.5199	280	139	23.3N	135.9W	13 10 3751 B.C.E.	
00545	Aug 03 3751 B.C.E.	06:08:37	0351584.7559841	-3751	Aug 04 09:51:24	099767	LPU	Dec.	-0.7448	1.5363	0.4474	333	155	24.4S	92.5W	14 04 3751 B.C.E.	
00546	Dec 29 3750 B.C.E.	16:07:11	0351733.1716517	-3751	Dec 30 19:49:58	099767	LNN	Asc.	-1.1950	0.6608	-0.3299	212	---	21.5N	119.6E	15 09 3750 B.C.E.	
00547	Jan 28 3750 B.C.E.	01:59:22	0351762.5828972	-3750	Jan 29 05:41:32	099730	LNN	Asc.	1.4389	0.1988	-0.7636	118	---	25.2N	25.9W	14 10 3750 B.C.E.	
00548	Jun 23 3750 B.C.E.	18:59:00	0351909.2909673	-3750	Jun 24 22:41:10	099730	LNN	Dec.	1.3354	0.4151	-0.5995	180	---	19.6S	72.5E	13 03 3750 B.C.E.	
00549	Jul 23 3750 B.C.E.	07:46:52	0351938.8242178	-3750	Jul 24 11:29:02	099730	LNN	Dec.	-1.4302	0.2599	-0.7919	150	---	25.4S	118.2W	13 04 3750 B.C.E.	
00550	Dec 19 3750 B.C.E.	02:16:03	0352087.6695502	-3750	Dec 20 05:58:12	099730	LPU	Asc.	-0.5296	1.9114	0.8617	335	192	20.1N	33.6W	15 09 3750 B.C.E.	
00551	Jun 12 3749 B.C.E.	07:27:46	0352263.8109482	-3749	Jun 13 11:09:20	099693	LPU	Dec.	0.5342	1.8585	0.8968	305	178	17.7S	115.0W	13 02 3749 B.C.E.	
00552	Dec 07 3749 B.C.E.	04:58:37	0352411.7073783	-3749	Dec 08 08:40:11	099694	LPU	Asc.	0.1717	2.5922	1.4948	374	231	09.7	79.7N	14 08 3749 B.C.E.	
00553	Jun 02 3748 B.C.E.	00:12:57	0352618.5089884	-3748	Jun 03 03:53:54	099658	LPU	Dec.	-0.2085	2.4461	1.5045	314	200	09.0	6.2W	14 02 3748 B.C.E.	
00554	Nov 26 3748 B.C.E.	04:04:09	0352652.5695502	-3748	Nov 27 07:45:07	099658	LPU	Asc.	0.8517	1.3443	0.2471	317	118	14.9N	61.9W	13 08 3748 B.C.E.	
00555	May 22 3747 B.C.E.	16:39:13	0352973.1939034	-3747	May 23 20:19:34	099621	LPU	Dec.	-0.9682	1.0638	0.0987	256	055	12.6S	107.5E	15 02 3747 B.C.E.	
00556	Oct 16 3747 B.C.E.	16:46:20	0353120.1988414	-3747	Oct 17 20:26:41	099621	LNN	Asc.	-1.3602	0.3724	-0.6478	168	---	3.1S	110.0E	13 07 3747 B.C.E.	
00557	Nov 15 3747 B.C.E.	07:11:32	0353149.7996786	-3747	Nov 16 10:51:53	099621	LNN	Asc.	1.4851	0.1586	-0.8921	116	---	11.4N	108.9W	13 08 3747 B.C.E.	
00558	Apr 12 3746 B.C.E.	16:21:06	0353298.1813250	-3746	Apr 13 20:00:50	099584	LPU	Dec.	0.8990	1.2300	0.1873	297	102	4.1N	117.3E	13 13 3746 B.C.E.	
00559	Oct 06 3746 B.C.E.	06:05:42	0353474.7539633	-3746	Oct 07 09:45:27	099584	LPU	Asc.	-0.6444	1.6642	0.6870	293	160	6.9S	89.7W	13 06 3746 B.C.E.	
00560	Mar 31 3745 B.C.E.	18:04:18	0353652.2529903	-3745	Apr 01 21:43:26	099548	LPU	Dec.	0.1410	2.6344	1.8293	322	209	7.8N	92.3E	14 12 3745 B.C.E.	
00561	Sep 24 3745 B.C.E.	21:47:16	0353829.4078187	-3745	Sep 26 01:26:21	099548	LPU	Asc.	0.0221	2.8056	1.8293	322	209	10.5S	35.0E	14 06 3745 B.C.E.	
00562	Mar 20 3744 B.C.E.	19:33:15	0354006.3147596	-3744	Mar 21 23:11:47	099511	LPU	Dec.	-0.6214	1.7417	0.6942	334	181	11.2N	70.8E	14 12 3744 B.C.E.	
00563	Jan 14 3744 B.C.E.	11:10:30	0354183.9656266	-3744	Sep 15 14:49:00	099511	LPU	Asc.	0.7311	1.5251	0.5081	301	151	13.7S	166.0W	14 06 3744 B.C.E.	
00564	Feb 08 3743 B.C.E.	17:35:32	0354331.2300062	-3743	Feb 09 21:13:26	099474	LNN	Dec.	1.2870	0.4852	-0.4924	184	---	23.6N	101.3E	13 11 3743 B.C.E.	
00565	Mar 10 3743 B.C.E.	03:10:10	0354360.6320391	-3743	Mar 11 06:48:03	099474	LNN	Dec.	-1.3384	0.4001	-0.5958	173	---	14.1N	43.1W	13 12 3743 B.C.E.	
00566	Aug 05 3743 B.C.E.	01:29:59	0354508.5624842	-3743	Aug 06 05:07:53	099474	LNN	Asc.	-1.4453	0.2476	-0.8345	151	---	24.8S	22.4W	14 04 3743 B.C.E.	
00567	Sep 03 3743 B.C.E.	18:12:41	0354538.2588066	-3743	Sep 04 21:50:35	099474	LNN	Asc.	1.4917	0.1567	-0.9141	119	---	16.5S	88.1E	15 05 3743 B.C.E.	
00568	Jan 29 3742 B.C.E.	09:21:03	0354685.8896218	-3742	Jan 30 12:58:22	099438	LPU	Dec.	0.5529	1.8205	0.8663	297	172	24.2N	136.1W	13 10 3742 B.C.E.	
00569	Jul 25 3742 B.C.E.	01:18:27	0354862.5544746	-3742	Jul 26 04:55:46	099439	LPU	Asc.	-0.7418	1.5376	0.4571	331	156	24.8S	20.7W	14 04 3742 B.C.E.	
00570	Jan 19 3741 B.C.E.	01:29:12	0355040.5619389	-3741	Jan 20 05:50:52	099402	LPU	Dec.	-0.1497	2.5708	1.5957	324	209	23.9N	129.1W	14 10 3741 B.C.E.	
00571	Jul 13 3741 B.C.E.	04:43:53	0355216.6971454	-3741	Jul 14 08:20:37	099402	LPU	Asc.	0.0158	2.8461	1.8126	354	227	10.3	73.1W	13 03 3741 B.C.E.	
00572	Jan 07 3740 B.C.E.	13:23:02	0355395.0576669	-3740	Jan 08 16:59:07	099365	LPU	Dec.	-0.9025	1.2172	0.1871	285	098	22.8N	161.2E	14 09 3740 B.C.E.	
00573	Jul 02 3740 B.C.E.	15:33:12	0355571.1480576	-3740	Jul 03 19:09:18	099365	LPU	Asc.	0.7506	1.4686	0.4926	288	142	21.7S	123.9E	13 03 3740 B.C.E.	
00574	Nov 27 3740 B.C.E.	23:29:25	0355719.4787619	-3740	Nov 29 03:05:30	099365	LNN	Dec.	1.3491	0.4352	-0.6690	199	---	16.0N	6.9E	14 08 3740 B.C.E.	
00575	May 24 3739 B.C.E.	00:41:25	0355896.5287669	-3739	May 25 04:16:54	099329	LNN	Asc.	-1.0686	0.8685	-0.0745	229	---	13.3S	13.0W	14 02 3739 B.C.E.	
00576	Jun 22 3739 B.C.E.	07:35:16	0355925.8161544	-3739	Jun 23 11:10:45	099329	LNN	Asc.	1.4342	0.1990	-0.7464	117	---	19.1S	116.8W	14 03 3739 B.C.E.	
00577	Nov 16 3739 B.C.E.	22:57:44	0356073.4567611	-3739	Nov 18 02:33:14	099329	LPU	Dec.	0.6663	1.6800	0.5918	336	171	11.4N	15.0E	13 08 3739 B.C.E.	
00578	May 13 3738 B.C.E.	16:13:46	0356251.1762304	-3738	May 14 19:48:37	099292	LPU	Dec.	-0.3469	2.2103	1.2324	325	203	6.8S	115.1E	15 01 3738 B.C.E.	
00579	Nov 02 3738 B.C.E.	04:07:00	0356427.6715235	-3738	Nov 07 07:41:54	099292	LPU	Dec.	-0.0473	2.7887	1.7541	346	221	10.1	6.4N	61.8W	13 07 3738 B.C.E.
00580	May 02 3737 B.C.E.	01:53:35	0356605.5788799	-3737	May 03 05:27:49	099255	LPU	Asc.	0.4413	2.0643	1.0327	343	206	4.0S	28.5W	15 01 3737 B.C.E.	
00581	Oct 25 3737 B.C.E.	16:13:07	0356782.1757774	-3737	Oct 26 19:47:23	099255	LPU	Dec.	-0.7150	1.5386	0.5534	289	149	1.4N	117.4E	14 07 3737 B.C.E.	
00582	Apr 21 3736 B.C.E.	04:39:12	0356959.6938833	-3736	Apr 22 08:12:51	099219	LNN	Asc.	1.2334	0.6282	-0.4377	233	---	1.0N	68.4W	14 01 3736 B.C.E.	
00583	Sep 15 3736 B.C.E.	20:48:12	0357107.3668046	-3736	Sep 16 00:21:51	099219	LNN	Dec.	1.3397	0.3913	-0.5918	165	---	12.5S	49.5E	14 06 3736 B.C.E.	
00584	Oct 15 3736 B.C.E.	07:42:27	0357136.8211472	-3736	Oct 16 11:16:06	099219	LNN	Dec.	-1.3499	0.3679	-0.6057	158	---	3.7S	114.2W	14 07 3736 B.C.E.	
00585	Mar 11 3735 B.C.E.	16:30:43	0357284.1879779	-3735	Mar 12 20:03:46	099182	LPU	Asc.	-0.8249	1.3624	0.3268	304	130	14.0N	117.0E	14 12 3735 B.C.E.	
00586	Sep 05 3735 B.C.E.	08:46:23	0357461.8655430	-3735	Sep 06 12:19:24	099183	LPU	Dec.	0.7017	1.5866	0.5549	310	159	16.6S	129.9W	14 05 3735 B.C.E.	
00587	Mar 01 3734 B.C.E.	02:06:46	0357638.5880354	-3734	Mar 02 05:39:16	099147	LPU	Asc.	-0.0318	2.7913	1.8081	333	216	10.1	17.9N	25.5W	13 11 3734 B.C.E.
00588	Aug 25 3734 B.C.E.	13:46:48	0357816.0741624	-3734	Aug 26 17:19:13	099147	LPU	Dec.	-0.0016	2.8961	1.8147	371	233	10.5	20.2S	174.7E	14 05 3734 B.C.E.
00589	Feb 18 3733 B.C.E.	17:23:48	0357993.2248649	-3733	Feb 19 20:55:39	099110	LPU	Asc.	0.6927	1.5622	0.6113	285	149	21.3N	104.1E	14 11 3733 B.C.E.	
00590	Aug 13 3733 B.C.E.	13:34:20	0358170.0655101	-3733	Aug 14 17:06:10												

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)	Year	Month	Day		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
00643	Jun	23	3712	B.C.E.	15:41:55	0365789.1541041	-3712	Jun	24	19:01:00	098346	LTU	Dec.	-0.0775	2.6891	1.7422	317	205	098	21.0S	121.3E	13	03	3712	B.C.E.
00644	Dec	17	3712	B.C.E.	20:07:05	0365966.3382540	-3712	Dec	18	23:26:12	098346	LPU	Asc.	0.8233	1.3921	0.3034	319	129	---	21.2N	58.2E	13	09	3712	B.C.E.
00645	Jun	13	3711	B.C.E.	07:32:11	0366133.8140206	-3711	Jun	14	10:50:40	098309	LNN	Asc.	-0.8321	1.3185	0.3438	279	120	---	19.2S	116.6W	14	02	3711	B.C.E.
00646	Nov	07	3711	B.C.E.	10:26:54	0366290.9353497	-3711	Nov	08	13:45:23	098309	LNN	Asc.	-1.3495	0.3892	-0.6251	170	---	---	6.0N	156.3W	13	07	3711	B.C.E.
00647	Dec	07	3711	B.C.E.	00:12:55	0366320.5089659	-3711	Dec	08	03:31:23	098309	LNN	Asc.	1.4674	0.1861	-0.8545	124	---	---	18.9N	4.1W	13	08	3711	B.C.E.
00648	May	04	3710	B.C.E.	05:34:43	0366468.7324387	-3710	May	05	08:52:36	098273	LNN	Dec.	1.0772	0.9057	-0.1421	266	---	---	4.1S	83.6W	14	01	3710	B.C.E.
00649	Oct	28	3710	B.C.E.	00:11:49	0366645.5082072	-3710	Oct	29	03:29:42	098273	LPU	Asc.	-0.6424	1.6673	0.6912	292	160	---	2.2N	2.3W	13	07	3710	B.C.E.
00650	Apr	22	3709	B.C.E.	06:51:59	0366822.7860939	-3709	Apr	23	10:09:15	098236	LTU	Dec.	0.3223	2.3006	1.2333	367	224	074	0.5S	102.0W	14	01	3709	B.C.E.
00651	Oct	16	3709	B.C.E.	15:46:31	0367000.1572984	-3709	Oct	17	19:03:44	098236	LPU	Asc.	0.0191	2.3006	1.8321	323	210	098	1.6S	124.2E	13	07	3709	B.C.E.
00652	Apr	11	3708	B.C.E.	09:00:15	0367176.8751717	-3708	Apr	12	12:16:56	098200	LTU	Dec.	-0.4521	2.0479	1.0095	345	206	016	3.2N	133.1W	13	13	3708	B.C.E.
00653	Oct	06	3708	B.C.E.	17:45:24	0367354.6865384	-3708	Oct	07	07:45:17	098201	LPU	Asc.	0.7252	1.5410	0.5140	304	153	---	5.4S	66.1W	14	06	3708	B.C.E.
00654	Mar	02	3707	B.C.E.	09:08:33	0367501.8809389	-3707	Mar	03	12:24:38	098165	LNN	Dec.	1.3876	0.2950	-0.6714	145	---	---	18.8N	131.4W	13	11	3707	B.C.E.
00655	Mar	31	3707	B.C.E.	17:45:24	0367531.2398660	-3707	Apr	01	21:01:29	098165	LNN	Dec.	-1.1883	0.6703	-0.3149	217	---	---	6.7N	96.5E	13	12	3707	B.C.E.
00656	Aug	26	3707	B.C.E.	16:40:01	0367679.1944509	-3707	Aug	27	19:56:06	098165	LNN	Asc.	-1.5124	0.1294	-0.9627	111	---	---	21.1S	111.9E	14	05	3707	B.C.E.
00657	Sep	25	3707	B.C.E.	10:29:29	0367708.9371402	-3707	Sep	26	13:45:34	098165	LNN	Asc.	1.4737	0.1951	-0.8862	133	---	---	9.2S	156.3W	14	06	3707	B.C.E.
00658	Feb	20	3706	B.C.E.	01:30:05	0367856.5625551	-3706	Feb	21	04:45:33	098128	LPU	Dec.	0.6491	1.6407	0.6927	288	156	---	20.8N	17.1W	14	11	3706	B.C.E.
00659	Aug	15	3706	B.C.E.	16:10:15	0368033.1737855	-3706	Aug	16	19:25:43	098128	LPU	Asc.	-0.8206	1.3951	0.3103	319	131	---	22.9S	118.4E	13	05	3706	B.C.E.
00660	Feb	09	3705	B.C.E.	17:41:55	0368211.2374420	-3705	Feb	10	20:56:45	098092	LTU	Dec.	-0.0677	2.7206	1.7469	327	212	099	22.1N	99.3E	15	11	3705	B.C.E.
00661	Aug	03	3705	B.C.E.	20:04:41	0368387.3365814	-3705	Aug	04	23:19:36	098092	LPU	Asc.	-0.0725	2.7420	1.7085	351	224	102	23.6S	58.7E	13	04	3705	B.C.E.
00662	Jan	29	3704	B.C.E.	05:08:37	0368565.7143125	-3704	Jan	30	08:22:50	098055	LPU	Dec.	-0.8372	1.3371	0.3070	297	124	---	22.8N	73.2W	15	10	3704	B.C.E.
00663	Jul	24	3704	B.C.E.	07:25:43	0368741.8095276	-3704	Jul	25	10:39:59	098055	LPU	Asc.	0.6521	1.6498	0.6731	297	162	---	23.4S	112.7W	13	04	3704	B.C.E.
00664	Dec	19	3704	B.C.E.	15:21:00	0368890.1395840	-3704	Dec	19	18:35:16	098055	LNN	Dec.	1.3738	0.3875	-0.7120	189	---	---	22.1N	129.9E	14	09	3704	B.C.E.
00665	Jun	14	3703	B.C.E.	15:57:02	0369072.1766089	-3703	Jun	15	19:10:42	098019	LNN	Asc.	-1.2025	0.6260	-0.3231	200	---	---	20.0S	117.3E	14	02	3703	B.C.E.
00666	Jul	13	3703	B.C.E.	23:29:15	0369096.4786459	-3703	Jul	15	02:42:54	098019	LNN	Asc.	1.3303	0.3922	-0.5584	161	---	---	22.4S	5.6E	14	03	3703	B.C.E.
00667	Dec	08	3703	B.C.E.	15:23:14	0369244.1411369	-3703	Dec	09	18:36:54	098019	LPU	Dec.	0.6725	1.6641	0.5847	333	170	---	18.7N	128.8E	14	08	3703	B.C.E.
00668	Jun	04	3702	B.C.E.	06:46:38	0369421.7823835	-3702	Jun	05	09:59:39	097982	LPU	Asc.	-0.4957	1.9421	0.9547	319	190	---	16.3S	104.7W	15	02	3702	B.C.E.
00669	Nov	27	3702	B.C.E.	21:29:26	0369598.3954434	-3702	Nov	29	00:42:30	097982	LTU	Dec.	-0.0508	2.7779	1.7522	343	220	100	14.7N	37.1E	13	08	3702	B.C.E.
00670	May	23	3701	B.C.E.	15:21:38	0369776.1400273	-3701	May	24	18:34:03	097946	LTU	Asc.	0.2800	2.3644	1.3243	355	221	083	12.1S	127.3E	14	02	3701	B.C.E.
00671	Nov	16	3701	B.C.E.	10:15:37	0369952.9275147	-3701	Nov	17	13:28:05	097947	LPU	Dec.	-0.7208	1.5257	0.5450	286	147	---	10.2N	154.1W	13	08	3701	B.C.E.
00672	May	12	3700	B.C.E.	17:24:29	0370130.2253307	-3700	May	13	20:36:19	097911	LNN	Asc.	1.0619	0.9438	-0.1239	277	---	---	7.5S	97.8E	14	01	3700	B.C.E.
00673	Oct	07	3700	B.C.E.	14:33:16	0370278.1064316	-3700	Oct	08	17:45:06	097911	LNN	Dec.	1.3472	0.3814	-0.6092	164	---	---	4.2S	142.6E	14	06	3700	B.C.E.
00674	Nov	06	3700	B.C.E.	01:51:05	0370307.5771445	-3700	Nov	07	05:02:57	097911	LNN	Dec.	-1.3610	0.3483	-0.6271	154	---	---	5.4N	27.5W	14	07	3700	B.C.E.
00675	Apr	02	3699	B.C.E.	06:22:29	0370454.7656166	-3699	Apr	03	09:33:44	097874	LPU	Asc.	-0.9666	1.0969	0.0722	278	063	---	6.3N	92.7W	13	12	3699	B.C.E.
00676	Sep	27	3699	B.C.E.	01:40:30	0370632.5697936	-3699	Sep	28	04:51:43	097874	LPU	Dec.	0.7187	1.5610	0.5181	312	156	---	9.1S	23.6W	15	06	3699	B.C.E.
00677	Mar	22	3698	B.C.E.	17:04:56	0370809.2117750	-3698	Mar	23	20:15:36	097838	LPU	Asc.	-0.1614	2.5480	1.5756	328	211	095	10.9N	107.9E	14	12	3698	B.C.E.
00678	Sep	16	3698	B.C.E.	05:38:35	0370986.8751263	-3698	Sep	17	08:49:12	097838	LTU	Dec.	0.0340	2.8419	1.7504	373	233	104	13.7S	82.8W	14	06	3698	B.C.E.
00679	Mar	11	3697	B.C.E.	09:03:38	0371163.73175198	-3697	Mar	12	12:13:40	097802	LPU	Asc.	0.5763	1.7226	0.8282	295	168	---	15.2N	130.9W	13	12	3697	B.C.E.
00680	Sep	04	3697	B.C.E.	04:56:40	0371340.7060132	-3697	Sep	05	08:06:42	097802	LPU	Dec.	-0.6551	1.7049	0.6080	343	176	---	18.0S	72.3W	13	05	3697	B.C.E.
00681	Jan	30	3696	B.C.E.	16:50:03	0371489.2014245	-3696	Jan	31	19:59:28	097765	LNN	Asc.	-1.2984	0.4705	-0.5191	183	---	---	22.1N	111.7E	15	10	3696	B.C.E.
00682	Mar	01	3696	B.C.E.	10:53:51	0371518.5790572	-3696	Mar	02	05:03:15	097765	LNN	Asc.	1.3056	0.4420	-0.5174	173	---	---	19.0N	23.0W	14	11	3696	B.C.E.
00683	Jul	25	3696	B.C.E.	17:45:12	0371665.2397178	-3696	Jul	26	20:54:37	097765	LNN	Dec.	1.4753	0.1578	-0.8556	112	---	---	22.6S	92.8E	13	04	3696	B.C.E.
00684	Aug	24	3696	B.C.E.	07:06:30	0371694.7961839	-3696	Aug	25	10:15:55	097765	LNN	Dec.	-1.3189	0.4647	-0.5881	195	---	---	21.5S	105.1W	15	03	3696	B.C.E.
00685	Jan	20	3695	B.C.E.	02:12:01	0371843.5916822	-3695	Jan	21	05:20:49	097729	LPU	Asc.	-0.6163	1.7522	0.7027	330	180	---	23.5N	29.7W	15	10	3695	B.C.E.
00686	Jul	15	3695	B.C.E.	06:55:55	0372019.7888290	-3695	Jul	16	10:04:45	097729	LPU	Dec.	0.7002	1.5546	0.5915	288	150	---	23.1S	105.8W	13	03	3695	B.C.E.
00687	Jan	09	3694	B.C.E.	04:17:57	0372197.6791263	-3694	Jan	10	07:26:09	097693	LPU	Asc.	0.1012	2.7184	1.6273	376	234	103	23.9N	62.				

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar					
										Pen.	Par.	Lat.	Lon.	Day	Month	Year			
00750	Mar 13 3670 B.C.E.	17:10:38	0381027.2157221	-3670	Mar 14	20:04:24	096826	LPU	Dec.	0.7703	1.4162	0.4726	275	130	---	14.7N	107.5E	14 12 3670	B.C.E.
00751	Sep 06 3670 B.C.E.	07:44:11	0381203.8223520	-3670	Sep 07	10:37:57	096826	LPU	Asc.	-0.8687	1.3083	0.2207	312	111	---	17.7S	113.9W	13 05 3670	B.C.E.
00752	Mar 02 3669 B.C.E.	09:17:20	0381381.8870315	-3669	Mar 03	12:10:28	096790	LTU	Dec.	-0.4441	2.7638	1.7902	329	213	100	17.3N	134.1W	14 10 3669	B.C.E.
00753	Aug 25 3669 B.C.E.	12:10:05	0381558.0070050	-3669	Aug 26	15:03:18	096790	LTU	Asc.	-0.1296	2.6372	1.6037	348	222	098	20.0S	178.9E	13 05 3669	B.C.E.
00754	Feb 19 3668 B.C.E.	20:10:58	0381736.3409438	-3668	Feb 20	23:03:30	096754	LPU	Dec.	-0.7385	1.5184	0.4879	312	154	---	19.4N	62.2E	15 10 3668	B.C.E.
00755	Aug 14 3668 B.C.E.	23:56:19	0381912.4974377	-3668	Aug 16	02:48:54	096754	LPU	Asc.	0.5809	1.7812	0.8030	303	173	---	21.6S	1.5E	13 05 3668	B.C.E.
00756	Jan 10 3667 B.C.E.	07:34:15	0382237.8154535	-3667	Jan 11	09:31:29	096718	LNN	Dec.	-1.4259	0.2883	-0.8042	164	---	---	25.2N	97.6W	14 10 3667	B.C.E.
00757	Feb 08 3667 B.C.E.	23:43:00	0382090.4882002	-3667	Feb 10	02:34:59	096718	LNN	Dec.	-1.5199	0.1080	-0.9688	101	---	---	20.9N	8.7E	14 10 3667	B.C.E.
00758	Jul 06 3667 B.C.E.	07:34:15	0382237.8154535	-3667	Jul 07	10:26:13	096718	LNN	Asc.	-1.3184	0.4175	-0.5399	168	---	---	24.3S	116.2W	14 03 3667	B.C.E.
00759	Aug 04 3667 B.C.E.	15:55:50	0382267.1637730	-3667	Aug 05	18:47:48	096718	LNN	Asc.	1.2515	0.5399	-0.4171	187	---	---	22.3S	120.6E	13 04 3667	B.C.E.
00760	Dec 30 3667 B.C.E.	07:24:40	0382060.7774377	-3667	Dec 31	10:16:40	096719	LPU	Dec.	0.7022	1.6039	0.5359	327	163	---	23.4N	110.0W	13 09 3667	B.C.E.
00761	Jun 25 3666 B.C.E.	21:32:21	0382592.3974672	-3666	Jun 27	00:23:43	096683	LPU	Asc.	-0.6302	1.7012	0.7021	311	173	---	21.9S	33.8E	15 03 3666	B.C.E.
00762	Dec 19 3666 B.C.E.	14:36:19	0382769.1085572	-3666	Dec 20	17:27:44	096683	LTU	Dec.	-0.0369	2.7978	1.7832	340	219	101	20.8N	141.2E	12 09 3666	B.C.E.
00763	Jun 14 3665 B.C.E.	04:57:35	0382946.7066568	-3665	Jun 15	07:48:20	096647	LTU	Asc.	0.1280	2.6485	1.5982	363	230	101	18.8S	77.6W	14 02 3665	B.C.E.
00764	Dec 08 3665 B.C.E.	04:05:57	0383123.6707977	-3665	Dec 09	06:56:44	096647	LPU	Dec.	-0.7148	1.5334	0.5592	286	147	---	17.5N	61.6W	13 08 3665	B.C.E.
00765	Jun 03 3664 B.C.E.	06:19:42	0383300.7636800	-3664	Jun 04	09:09:54	096611	LPU	Asc.	0.8959	1.2500	0.1789	309	102	---	15.0S	97.7W	14 02 3664	B.C.E.
00766	Oct 29 3664 B.C.E.	08:29:24	0383448.8537496	-3664	Oct 30	11:19:35	096611	LNN	Dec.	-1.3445	0.3891	-0.6071	166	---	---	4.9N	127.6W	14 07 3664	B.C.E.
00767	Nov 27 3664 B.C.E.	19:52:48	0383478.3283321	-3664	Nov 28	22:42:59	096611	LNN	Dec.	-1.3678	0.3358	-0.6395	152	---	---	13.6N	61.6E	14 08 3664	B.C.E.
00768	Apr 23 3663 B.C.E.	20:08:16	0383625.3390731	-3663	Apr 24	22:57:51	096574	LNN	Asc.	-1.1160	0.8183	-0.1974	245	---	---	2.2S	58.3E	13 01 3663	B.C.E.
00769	Oct 18 3663 B.C.E.	18:50:57	0383803.2853869	-3663	Oct 19	21:40:30	096574	LPU	Dec.	0.7188	1.5652	0.5135	315	156	---	0.2S	77.7E	15 07 3663	B.C.E.
00770	Apr 13 3662 B.C.E.	07:51:23	0383979.8273453	-3662	Apr 14	10:40:22	096538	LPU	Asc.	-0.3042	2.2816	1.3178	321	202	078	2.6N	115.9W	13 13 3662	B.C.E.
00771	Oct 07 3662 B.C.E.	21:54:30	0384157.4128443	-3662	Oct 09	00:43:27	096538	LTU	Dec.	0.0438	2.8276	1.7287	376	233	104	5.4S	32.6E	14 06 3662	B.C.E.
00772	Apr 02 3661 B.C.E.	00:22:09	0384334.5153796	-3661	Apr 03	03:10:31	096502	LPU	Asc.	0.4415	2.0277	1.0776	304	184	041	7.4N	2.2W	14 12 3661	B.C.E.
00773	Sep 25 3661 B.C.E.	20:55:34	0384511.3719219	-3661	Sep 26	23:43:57	096502	LPU	Dec.	-0.6325	1.7479	0.6482	345	180	---	10.4S	47.9E	14 06 3661	B.C.E.
00774	Feb 21 3660 B.C.E.	08:28:21	0384659.8530191	-3660	Feb 22	11:16:07	096466	LNN	Asc.	-1.4026	0.2793	-0.7104	145	---	---	18.3N	122.1W	14 11 3660	B.C.E.
00775	Mar 22 3660 B.C.E.	17:10:34	0384689.2156710	-3660	Mar 23	19:58:20	096466	LNN	Asc.	1.1884	0.6572	-0.3027	208	---	---	11.9N	106.8E	15 12 3660	B.C.E.
00776	Aug 16 3660 B.C.E.	09:48:49	0384835.9089036	-3660	Aug 17	12:36:37	096467	LNN	Dec.	-1.5295	0.0584	-0.9549	069	---	---	20.4S	146.5W	13 05 3660	B.C.E.
00777	Sep 14 3660 B.C.E.	23:31:33	0384865.4024221	-3660	Sep 16	02:19:20	096467	LNN	Dec.	-1.2830	0.5303	-0.5220	206	---	---	15.1S	9.3E	13 06 3660	B.C.E.
00778	Feb 10 3659 B.C.E.	17:14:51	0385014.2186494	-3659	Feb 11	20:02:01	096431	LPU	Asc.	-0.7120	1.5762	0.5273	322	161	---	21.2N	106.1E	15 11 3659	B.C.E.
00779	Aug 05 3659 B.C.E.	23:18:40	0385190.4712930	-3659	Aug 07	02:05:51	096431	LPU	Dec.	0.7757	1.4174	0.4517	279	132	---	22.6S	10.3E	14 04 3659	B.C.E.
00780	Jan 30 3658 B.C.E.	19:00:22	0385368.2919166	-3658	Jan 31	21:46:55	096395	LTU	Asc.	0.0160	2.8717	1.7865	377	236	106	23.4N	79.1E	14 10 3658	B.C.E.
00781	Jul 26 3658 B.C.E.	15:45:17	0385545.1564515	-3658	Jul 27	18:31:52	096395	LTU	Dec.	0.0737	2.7016	1.7436	319	206	098	24.0S	122.7E	14 04 3658	B.C.E.
00782	Jan 19 3657 B.C.E.	19:16:31	0385722.3031422	-3657	Jan 20	22:02:31	096359	LPU	Asc.	0.7329	1.5495	0.4778	327	157	---	24.7N	74.0E	14 10 3657	B.C.E.
00783	Jul 15 3657 B.C.E.	06:27:42	0385899.7692400	-3657	Jul 16	09:13:40	096359	LPU	Dec.	-0.6648	1.6344	0.6418	303	164	---	24.5S	99.0W	13 03 3657	B.C.E.
00784	Dec 09 3657 B.C.E.	12:45:13	0386407.9314035	-3657	Dec 10	15:31:13	096359	LNN	Asc.	-1.3490	0.3833	-0.6175	167	---	---	17.3N	169.0E	13 08 3657	B.C.E.
00785	Jan 08 3656 B.C.E.	01:02:30	0386676.5434014	-3656	Jan 09	03:47:52	096323	LNN	Asc.	1.4015	0.2975	-0.7242	153	---	---	25.1N	13.8W	13 09 3656	B.C.E.
00786	Jun 05 3656 B.C.E.	01:22:20	0386824.5517107	-3656	Jun 06	04:07:42	096323	LNN	Dec.	-1.3775	0.4338	-0.6254	195	---	---	15.2S	23.1W	14 02 3656	B.C.E.
00787	Jul 04 3656 B.C.E.	15:16:07	0386254.1361866	-3656	Jul 05	18:01:29	096323	LNN	Dec.	-1.4667	0.1893	-0.8553	128	---	---	24.2S	128.0E	14 03 3656	B.C.E.
00788	Nov 29 3656 B.C.E.	03:18:18	0386769.6377069	-3656	Nov 30	06:03:41	096323	LPU	Asc.	-0.6439	1.6619	0.6910	291	159	---	14.8N	49.8W	13 08 3656	B.C.E.
00789	May 25 3655 B.C.E.	02:04:36	0386578.5865316	-3655	May 26	04:49:24	096287	LPU	Dec.	0.5936	1.8027	0.7356	346	189	---	12.3S	33.3W	14 02 3655	B.C.E.
00790	Nov 18 3655 B.C.E.	18:50:29	0386756.2850529	-3655	Nov 19	21:35:13	096287	LTU	Asc.	0.0217	2.8111	1.8254	326	211	099	11.7N	76.8E	14 08 3655	B.C.E.
00791	Jul 14 3654 B.C.E.	05:13:15	0386932.7175375	-3654	Jul 15	07:57:28	096251	LTU	Dec.	-0.1914	2.5211	1.4927	353	224	095	9.0S	79.9W	13 01 3654	B.C.E.
00792	Nov 08 3654 B.C.E.	06:41:00	0387110.7784687	-3654	Nov 09	09:25:10	096251	LPU	Asc.	0.7342	1.5296	0.4923	307	151	---	8.2N	100.8W	14 07 3654	B.C.E.
00793	May 02 3653 B.C.E.	15:28:00	0387287.1444453	-3653	May 03	18:11:36	096215	LPU	Dec.	-0.9450	1.1106	0.1372	263	073	---	5.7S	127.2E	13 01 3653	B.C.E.
00794	Sep 27 3653 B.C.E.	16:26:10	0387435.1848410	-3653	Sep 28	19:09:47	096216	LNN	Asc.	-1.5631	0.0422	-1.0613	064	---	---	10.4S	115.7E	14 06 3653	B.C.E.
00795	Oct 27 3653 B.C.E.	11:24:46	0387464.9755312	-3653	Oct 28	14:08:21	096216	LNN	Asc.	1.4730	0.2014	-0.8901	136	---	---	4.2N	171.6W	14 07 3653	B.C.E.
00796	Mar 24 3652 B.C.E.	00:51:14	0387612.5355843	-3652	Mar 25	03:34:14	096180	LPU	Asc.	1.4730	1.2891	0.3470	266	111	---	11.0N	8.4W	14 12 3652	B.C.E.
00797	Sep 16 3652 B.C.E.	15:45:23	0387789.1565151	-3652	Sep 17	18:28:23	096180	LPU	Dec.	-0.8824	1.2835	0.1952	309	105	---	14.1S	125.9E	13 06 3652	B.C.E.
00798	Mar 13 3651 B.C.E.	16:53:11	0387967.2035944	-3651	Mar 14	19:35:32	096143	LTU	Dec.	0.1092	2.6447	1.6705	330	213	098	14.0N	111.5E	14 10 3651	B.C.E.
00799	Sep 05 3651 B.C.E.	20:27:21	0388143.3523252	-3651	Sep 06	23:09:47	096143	LTU	Asc.	-0.1479	2.6033	1.5702	346	220	096	17.1S	55.0E	13 05 3651	B.C.E.
00800	Mar 03 3650 B.C.E.	03:27:42	0388321.6423382	-3650	Mar 04	06:09:28	096107	LPU	Dec.	-0.6783	1.6291								

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Year	Month	Day	Time (UT)	Year	Day	Time (UT)	Year	Day						Pen.	Par.	Lat.	Lon.	Year	Month	Day	Year	Month	Day	
00857	Dec	29	3629	B.C.E.	21:33:42	0396294.3984019	-3629	Dec	31	00:02:57	095355	LPU	Dec.	-0.6879	1.5790	0.6123	287	151	---	22.1N	37.8E	14	09	3629	B.C.E.
00858	Jun	24	3628	B.C.E.	19:36:01	0396619.3166782	-3628	Jun	25	22:04:40	095319	LPU	Asc.	0.7444	1.5303	0.4547	331	156	---	20.6S	63.0E	14	03	3628	B.C.E.
00859	Nov	20	3628	B.C.E.	02:21:41	0396671.5983926	-3628	Nov	21	04:50:20	095319	LNN	Dec.	1.3441	0.3916	-0.6080	168	---	---	13.6N	36.4W	14	08	3628	B.C.E.
00860	Dec	19	3628	B.C.E.	13:34:03	0396649.0653172	-3628	Dec	20	16:02:43	095319	LNN	Dec.	-1.3593	0.3506	-0.6231	155	---	---	19.6N	157.0E	14	09	3628	B.C.E.
00861	May	15	3627	B.C.E.	10:01:07	0396795.9174478	-3627	May	16	12:29:12	095284	LNN	Asc.	-1.2629	0.5454	-0.4636	204	---	---	10.6S	152.3W	13	01	3627	B.C.E.
00862	Jun	13	3627	B.C.E.	21:43:02	0396825.4048851	-3627	Jun	15	00:11:06	095284	LNN	Asc.	1.4582	0.2031	-0.8377	133	---	---	17.4S	31.3E	13	02	3627	B.C.E.
00863	Nov	09	3627	B.C.E.	12:02:36	0396974.0018063	-3627	Nov	10	14:30:39	095284	LPU	Dec.	0.7145	1.5761	0.5183	318	158	---	8.8N	178.8E	14	07	3627	B.C.E.
00864	May	04	3626	B.C.E.	22:35:18	0397150.4411775	-3626	May	06	01:02:47	095248	LTU	Dec.	-0.4519	2.0076	1.0496	311	188	033	6.0S	20.5E	13	01	3626	B.C.E.
00865	Oct	29	3626	B.C.E.	14:22:42	0397328.0990923	-3626	Oct	30	16:50:09	095248	LTU	Dec.	0.0414	2.8340	1.7310	377	234	104	3.7N	144.4E	14	07	3626	B.C.E.
00866	Apr	23	3625	B.C.E.	15:27:53	0397505.1443610	-3625	Apr	24	17:54:46	095213	LTU	Asc.	0.2960	2.2839	1.3453	311	196	079	1.2S	128.8E	13	01	3625	B.C.E.
00867	Oct	17	3625	B.C.E.	13:17:58	0397682.0541439	-3625	Oct	18	15:44:51	095213	LPU	Dec.	-0.6279	1.7560	0.6566	345	180	---	1.6S	161.4E	13	07	3625	B.C.E.
00868	Mar	14	3624	B.C.E.	23:29:43	0397830.4789655	-3624	Mar	16	01:56:00	095177	LNN	Asc.	-1.5319	0.0429	-0.9486	058	---	---	11.9N	11.9E	15	12	3624	B.C.E.
00869	Apr	13	3624	B.C.E.	08:04:23	0397859.8363830	-3624	Apr	14	10:30:40	095177	LNN	Asc.	1.0553	0.9029	-0.0598	239	---	---	3.6N	118.8W	14	13	3624	B.C.E.
00870	Sep	07	3624	B.C.E.	02:33:43	0398006.6067472	-3624	Sep	08	05:00:00	095177	LNN	Dec.	1.5534	0.0142	-0.9986	034	---	---	15.0S	37.0W	13	05	3624	B.C.E.
00871	Oct	06	3624	B.C.E.	16:29:03	0398036.1868425	-3624	Oct	07	18:55:20	095177	LNN	Dec.	-1.2705	0.5519	-0.4978	208	---	---	6.8S	114.3E	13	06	3624	B.C.E.
00872	Mar	04	3623	B.C.E.	07:34:28	0398184.8156016	-3623	Mar	05	10:00:08	095141	LPU	Asc.	-0.8381	1.3449	0.2962	307	126	---	16.0N	108.6W	14	11	3623	B.C.E.
00873	Aug	27	3623	B.C.E.	16:18:09	0398361.1792692	-3623	Aug	28	18:43:50	095141	LPU	Dec.	0.8219	1.3343	0.3654	272	120	---	18.6S	116.8E	13	05	3623	B.C.E.
00874	Feb	21	3622	B.C.E.	09:03:22	0398538.8773383	-3622	Feb	22	11:28:27	095105	LTU	Asc.	-0.0997	2.7149	1.6361	375	235	104	19.6N	130.6W	14	11	3622	B.C.E.
00875	Aug	17	3622	B.C.E.	08:26:54	0398715.8520110	-3622	Aug	18	10:51:58	095105	LTU	Dec.	0.1388	2.5867	1.6199	320	206	095	21.6S	125.9W	14	05	3622	B.C.E.
00876	Feb	10	3621	B.C.E.	10:00:45	0398992.9317867	-3621	Feb	11	12:25:15	095069	LPU	Asc.	0.6358	1.7213	0.6620	334	178	---	22.6N	145.3W	13	11	3621	B.C.E.
00877	Aug	05	3621	B.C.E.	22:19:21	0399079.4301086	-3621	Aug	07	00:43:49	095069	LPU	Dec.	-0.5874	1.7832	0.7774	314	179	---	23.9S	25.2E	15	04	3621	B.C.E.
00878	Dec	31	3621	B.C.E.	05:52:43	0399217.7449382	-3620	Jan	01	08:16:37	095034	LNN	Asc.	-1.3712	0.3369	-0.6530	156	---	---	21.7N	86.6W	13	09	3621	B.C.E.
00879	Jan	29	3620	B.C.E.	16:59:02	0399247.2076566	-3620	Jan	30	19:22:56	095034	LNN	Asc.	1.3256	0.4299	-0.5782	180	---	---	24.7N	180.4E	13	10	3620	B.C.E.
00880	Jun	26	3620	B.C.E.	14:52:07	0399395.1195258	-3620	Jun	27	17:16:01	095034	LNN	Dec.	1.4897	0.1592	-0.9092	122	---	---	20.3S	134.3E	14	03	3620	B.C.E.
00881	Jul	26	3620	B.C.E.	05:54:22	0399474.7460861	-3620	Jul	27	08:18:16	095034	LNN	Dec.	-1.3701	0.3732	-0.6845	179	---	---	25.3S	89.7W	14	04	3620	B.C.E.
00882	Dec	20	3620	B.C.E.	21:01:09	0399572.3758003	-3620	Dec	21	23:25:04	095034	LPU	Asc.	-0.6629	1.6243	0.6588	288	155	---	20.6N	45.3E	14	09	3620	B.C.E.
00883	Jan	15	3619	B.C.E.	15:15:05	0399749.1354734	-3619	Jan	16	17:38:23	049988	LPU	Dec.	0.7560	1.5056	0.4370	327	153	---	18.6S	128.3E	13	02	3619	B.C.E.
00884	Dec	10	3619	B.C.E.	12:35:27	0399927.0246144	-3619	Dec	11	14:58:42	049988	LTU	Asc.	0.0112	2.8305	1.8443	327	212	099	18.8N	170.9E	14	08	3619	B.C.E.
00885	Jun	04	3618	B.C.E.	19:02:05	0400103.2931177	-3618	Jun	05	21:24:50	049963	LPU	Dec.	-0.0288	1.8175	1.7932	353	227	104	16.2S	71.5E	13	02	3618	B.C.E.
00886	Nov	29	3618	B.C.E.	23:57:20	0400281.4981438	-3618	Dec	01	02:20:01	049963	LPU	Asc.	0.7348	1.5304	0.4894	309	152	---	16.2N	0.2W	14	08	3618	B.C.E.
00887	May	24	3617	B.C.E.	06:06:52	0400457.7547670	-3617	May	25	08:28:59	049927	LPU	Dec.	-0.7859	1.4003	0.4315	284	133	---	13.5S	94.5W	13	02	3617	B.C.E.
00888	Oct	19	3617	B.C.E.	08:43:27	0400605.8635082	-3617	Oct	20	11:05:33	049927	LNN	Asc.	-1.5751	0.0221	-1.0852	046	---	---	1.5S	129.6W	14	07	3617	B.C.E.
00889	Nov	18	3617	B.C.E.	03:59:25	0400635.6625664	-3617	Nov	19	06:21:32	049927	LNN	Asc.	1.4729	0.2028	-0.8912	137	---	---	12.9N	61.0W	14	08	3617	B.C.E.
00890	Apr	14	3616	B.C.E.	16:01:07	0400783.1674401	-3616	Apr	15	18:22:38	049891	LPU	Dec.	0.9860	1.0192	0.0778	244	030	---	2.9N	122.0E	15	13	3616	B.C.E.
00891	May	13	3616	B.C.E.	22:25:31	0400812.4343837	-3616	May	15	00:47:02	049891	LNN	Dec.	-1.4847	0.1031	-0.8361	085	---	---	10.4S	21.4E	14	01	3616	B.C.E.
00892	Oct	08	3616	B.C.E.	08:10:10	0400959.8403917	-3616	Oct	09	10:31:41	049891	LPU	Asc.	-0.8938	1.2623	0.1746	306	099	---	5.6S	121.0W	13	06	3616	B.C.E.
00893	Apr	04	3615	B.C.E.	07:42:34	0401137.8212251	-3615	Apr	05	10:03:28	049856	LTU	Dec.	0.2558	2.3772	1.4001	328	209	086	6.3N	112.6W	14	12	3615	B.C.E.
00894	Sep	27	3615	B.C.E.	13:28:59	0401314.0617962	-3615	Sep	28	15:49:58	049856	LTU	Asc.	-0.1653	2.5706	1.5393	344	219	094	9.5S	159.4E	12	06	3615	B.C.E.
00895	Mar	24	3614	B.C.E.	17:32:36	0401492.2309691	-3614	Mar	25	19:52:54	049820	LPU	Dec.	-0.5367	1.8900	0.8567	336	193	---	9.7N	100.6E	15	12	3614	B.C.E.
00896	Sep	17	3614	B.C.E.	01:50:45	0401668.5769127	-3614	Sep	18	04:11:06	049820	LPU	Asc.	0.5255	1.8838	0.9036	305	180	---	12.8S	26.1W	13	06	3614	B.C.E.
00897	Feb	12	3613	B.C.E.	04:24:17	0401816.6835344	-3613	Feb	13	06:44:01	094784	LNN	Dec.	1.5618	0.0327	-1.0473	056	---	---	23.0N	60.7W	14	11	3613	B.C.E.
00898	Mar	12	3613	B.C.E.	20:16:51	0401846.3450313	-3613	Mar	13	22:36:34	094784	LNN	Dec.	-1.3245	0.4636	-0.6075	203	---	---	12.8N	60.1E	14	12	3613	B.C.E.
00899	Aug	07	3613	B.C.E.	07:53:33	0401993.8288543	-3613	Aug	08	10:13:16	094784	LNN	Asc.	-1.4478	0.1876	-0.7848	116	---	---	24.6S	117.9W	14	04	3613	B.C.E.
00900	Sep	05	3613	B.C.E.	17:38:37	0402023.2351509	-3613	Sep	06	19:58:21	094784	LNN	Asc.	1.1844	0.6684	-0.2990	206	---	---	15.6S	96.6E	14	05	3613	B.C.E.
00901	Jan	31	3612	B.C.E.	06:30:15	0402170.7710025	-3612	Feb	01	08:49:23	094748	LPU	Dec.	0.8015	1.4118	0.3635	30								

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Lunar Eclipse Delta T (seconds)		Eclipse Phase			Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time (UT)	Julian Date (UT)	Year	Month	Day	Time (UT)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year				
00964	Oct	28	3588	B.C.E.	09:45:13	0411206.9063952	-3588	Oct	29	11:50:09	093896	LNN	Dec.	-1.2701	0.5501	-0.4945	206	---	---	2.3N	145.8W	13	07	3588	B.C.E.
00965	Mar	25	3587	B.C.E.	21:18:31	0411355.3878531	-3587	Mar	26	23:22:50	093860	LPU	Asc.	-0.9876	1.0711	0.0213	284	035	---	8.7N	44.0E	15	12	3587	B.C.E.
00966	Sep	18	3587	B.C.E.	09:50:06	0411531.9097892	-3587	Sep	19	11:54:26	093860	LPU	Dec.	0.8417	1.2993	0.3277	269	114	---	11.8S	146.0W	13	06	3587	B.C.E.
00967	Mar	14	3586	B.C.E.	22:31:00	0411709.4381960	-3586	Mar	16	00:34:44	093824	LTU	Asc.	-0.2427	2.4495	1.3766	371	229	090	13.2N	26.9E	14	12	3586	B.C.E.
00968	Sep	08	3586	B.C.E.	01:40:24	0411886.5697254	-3586	Sep	09	03:44:07	093824	LTU	Dec.	0.1743	2.5259	1.5503	321	206	092	16.0S	32.4W	14	05	3586	B.C.E.
00969	Mar	03	3585	B.C.E.	00:14:42	0412063.5102051	-3585	Mar	04	02:17:52	093789	LPU	Asc.	0.5116	1.9431	0.8959	342	198	---	17.4N	1.6E	13	11	3585	B.C.E.
00970	Aug	27	3585	B.C.E.	14:40:53	0412241.1117249	-3585	Aug	28	16:44:00	093789	LPU	Asc.	-0.5394	1.8779	0.8590	321	187	---	19.8S	141.3E	14	05	3585	B.C.E.
00971	Jan	21	3584	B.C.E.	22:30:06	0412388.4375665	-3584	Jan	23	00:32:39	093753	LNN	Asc.	-1.4188	0.2438	-0.7346	133	---	---	22.6N	26.0E	13	10	3584	B.C.E.
00972	Feb	20	3584	B.C.E.	08:25:58	0412417.8513678	-3584	Feb	21	10:28:31	093753	LNN	Asc.	-1.2229	0.6117	-0.3834	209	---	---	20.9N	121.1W	13	11	3584	B.C.E.
00973	Aug	16	3584	B.C.E.	21:05:37	0412595.3789051	-3584	Aug	17	23:08:10	093753	LNN	Dec.	-1.3032	0.5025	-0.5680	207	---	---	22.9S	44.6E	15	05	3584	B.C.E.
00974	Jan	11	3583	B.C.E.	14:15:23	0412743.0940148	-3583	Jan	12	16:17:22	093719	LPU	Asc.	-0.7058	1.5426	0.5831	284	146	---	23.3N	148.7E	13	10	3583	B.C.E.
00975	Jul	07	3583	B.C.E.	04:56:33	0412919.7059322	-3583	Jul	08	06:58:32	093719	LPU	Dec.	0.8931	1.2552	0.1839	307	103	---	22.4S	76.5W	13	03	3583	B.C.E.
00976	Jan	01	3582	B.C.E.	05:53:33	0413097.7455197	-3582	Jan	02	07:54:55	093683	LTU	Asc.	-0.0187	2.8164	1.8309	328	213	100	23.1N	87.0W	14	09	3582	B.C.E.
00977	Jun	26	3582	B.C.E.	09:20:10	0413273.8890042	-3582	Jun	27	11:21:36	093683	LTU	Dec.	0.1129	2.6619	1.6400	350	224	100	21.4S	143.1W	13	03	3582	B.C.E.
00978	Dec	21	3582	B.C.E.	16:46:58	0413452.1992868	-3582	Dec	22	18:48:20	093683	LPU	Asc.	0.7182	1.5618	0.5191	313	157	---	22.0N	108.5E	15	09	3582	B.C.E.
00979	Jun	14	3581	B.C.E.	21:06:15	0413628.3793350	-3581	Jun	15	23:07:03	093648	LPU	Dec.	-0.6410	1.6650	0.6983	298	163	---	19.8S	40.0E	14	02	3581	B.C.E.
00980	Nov	10	3581	B.C.E.	01:06:26	0413776.3461389	-3581	Nov	11	03:07:14	093648	LNN	Asc.	-1.5810	0.0114	-1.0961	034	---	---	7.5N	16.4W	14	07	3581	B.C.E.
00981	Dec	09	3581	B.C.E.	20:15:13	0413806.3439061	-3581	Dec	10	22:16:02	093648	LNN	Asc.	1.4609	0.2248	-0.8688	145	---	---	20.0N	55.4E	14	08	3581	B.C.E.
00982	May	06	3580	B.C.E.	07:01:03	0413953.7923962	-3580	May	07	09:01:15	093612	LNN	Dec.	1.1399	0.7379	-0.2055	215	---	---	5.3S	105.5W	14	01	3580	B.C.E.
00983	Jun	04	3580	B.C.E.	13:36:51	0413983.0672554	-3580	Jun	05	15:37:03	093612	LNN	Dec.	-1.3429	0.3644	-0.5770	156	---	---	17.6E	152.2E	13	02	3580	B.C.E.
00984	Oct	30	3580	B.C.E.	00:52:23	0414130.5363824	-3580	Oct	31	02:52:36	093612	LPU	Asc.	-0.8934	1.2612	0.1770	304	099	---	3.5N	12.7W	13	07	3580	B.C.E.
00985	Apr	25	3579	B.C.E.	22:12:24	0414308.4252823	-3579	Apr	27	00:11:59	093576	LTU	Dec.	0.4150	2.0877	1.1052	323	199	049	2.0S	27.5E	15	01	3579	B.C.E.
00986	Oct	19	3579	B.C.E.	06:54:09	0414484.8786017	-3579	Oct	20	08:53:47	093576	LPU	Asc.	-0.1672	2.5650	1.5377	341	217	094	0.5S	102.9W	13	07	3579	B.C.E.
00987	Apr	15	3578	B.C.E.	07:08:40	0414662.9768883	-3578	Apr	16	09:07:39	093541	LTU	Dec.	-0.3741	2.1904	1.1531	350	214	060	1.6N	105.6W	14	13	3578	B.C.E.
00988	Oct	08	3578	B.C.E.	19:41:51	0414839.3207303	-3578	Oct	09	21:40:53	093541	LPU	Asc.	0.5146	1.9038	0.9235	305	180	---	4.4S	65.4E	14	06	3578	B.C.E.
00989	Apr	03	3577	B.C.E.	09:20:49	0415016.8894598	-3577	Apr	04	11:19:15	093505	LNN	Dec.	-1.1615	0.7614	-0.3072	253	---	---	5.3N	137.7W	14	12	3577	B.C.E.
00990	Aug	29	3577	B.C.E.	00:44:54	0415164.5311819	-3577	Aug	30	02:43:19	093505	LNN	Asc.	-1.5027	0.0922	-0.8907	083	---	---	20.3S	9.1W	15	05	3577	B.C.E.
00991	Sep	27	3577	B.C.E.	11:21:48	0415193.9734723	-3577	Sep	28	13:20:13	093505	LNN	Asc.	1.1683	0.7011	-0.2724	211	---	---	8.0S	169.5W	13	06	3577	B.C.E.
00992	Feb	21	3576	B.C.E.	21:14:39	0415341.8511726	-3576	Feb	22	23:12:30	093471	LPU	Dec.	0.9044	1.2163	0.1812	291	099	---	20.2N	46.9E	13	11	3576	B.C.E.
00993	Aug	18	3576	B.C.E.	12:16:12	0415519.0112499	-3576	Aug	19	14:14:02	093471	LPU	Asc.	-0.8626	1.2918	0.2589	292	115	---	22.2S	177.2E	14	05	3576	B.C.E.
00994	Feb	11	3575	B.C.E.	07:21:18	0415695.8064617	-3575	Feb	12	09:18:35	093435	LPU	Dec.	0.1201	2.6291	1.6460	331	214	097	21.8N	105.4W	13	11	3575	B.C.E.
00995	Apr	07	3575	B.C.E.	16:42:53	0415873.1964483	-3575	Apr	08	18:40:47	093435	LTU	Asc.	-0.1570	2.6099	1.5308	370	231	098	23.3S	109.4E	14	04	3575	B.C.E.
00996	Jan	31	3574	B.C.E.	22:47:01	0416050.4493225	-3574	Feb	02	00:43:42	093400	LPU	Dec.	-0.5958	1.7419	0.7871	294	166	---	22.6N	22.4E	14	10	3574	B.C.E.
00997	Jul	27	3574	B.C.E.	16:35:09	0416227.1910765	-3574	Jul	28	18:31:50	093400	LPU	Asc.	0.5642	1.8650	0.7815	351	193	---	23.5S	110.3E	14	04	3574	B.C.E.
00998	Dec	23	3574	B.C.E.	04:32:01	0416375.6888948	-3574	Dec	24	06:28:40	093400	LNN	Dec.	1.3719	0.3415	-0.6600	159	---	---	23.0N	67.6W	14	09	3574	B.C.E.
00999	Jan	21	3573	B.C.E.	15:06:17	0416405.1293600	-3573	Jan	22	17:02:20	093364	LNN	Dec.	-1.3012	0.4555	-0.5147	176	---	---	22.7N	136.6E	15	10	3573	B.C.E.
01000	Jun	16	3573	B.C.E.	07:27:07	0416551.8104988	-3573	Jun	17	09:23:11	093364	LNN	Asc.	-1.4599	0.1808	-0.8222	120	---	---	21.0S	115.2W	13	03	3573	B.C.E.
01001	Jul	15	3573	B.C.E.	19:18:17	0416581.3043641	-3573	Jul	16	21:14:20	093364	LNN	Asc.	1.2643	0.5585	-0.4816	211	---	---	22.7S	68.5E	14	04	3573	B.C.E.
01002	Dec	11	3573	B.C.E.	13:21:04	0416730.0562950	-3573	Dec	12	15:17:07	093364	LPU	Dec.	0.7270	1.5552	0.4935	319	156	---	19.9N	159.4E	14	09	3573	B.C.E.
01003	Nov	05	3572	B.C.E.	21:00:17	0416906.3751910	-3572	Nov	06	22:55:46	093329	LPU	Asc.	-0.6631	1.6183	0.6640	291	156	---	17.4S	41.7E	14	02	3572	B.C.E.
01004	Nov	30	3572	B.C.E.	14:53:29	0417084.1204691	-3572	Dec	01	16:48:57	093329	LTU	Dec.	0.0455	2.8264	1.7236	378	235	104	16.1N	136.1E	13	08	3572	B.C.E.
01005	May	26	3571	B.C.E.	14:05:37	0417261.0872285	-3571	May	27	16:00:29	093293	LTU	Asc.	0.0771	2.6873	1.7455	317	205	098	13.4S	146.1E	14	02	3571	B.C.E.
01006	Nov	19	3571	B.C.E.	14:06:30	0417438.0878506	-3571	Nov	20	16:01:24	093293	LPU	Dec.	-0.6290	1.7507	0.6579	342	179	---	11.6N	147.9E	13	08	3571	B.C.E.
01007	May	16	3570	B.C.E.	06:02:36	0417615.7518017	-3570	May	17	07:56:53	093258	LPU	Asc.	0.8423	1.2984	0.3263	278	117	---	9.1S	92.1W	14	01	3570	B.C.E.
01008	Oct	10	3570	B.C.E.	04:40:11	0417762.6945693	-3570	Oct	11	06:34:29	093258	LNN	Dec.	1.5477	0.0231	-0.9867	043	---							

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)	Year	Month	Day		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
01071	May	27	3544	B.C.E.	22:02:46	0427124.4185833	-3544	May	28	23:41:47	092342	LNN	Dec.	1.2900	0.4649	-0.4834	176	---	---	12.9S	27.2E	14	02	3544	B.C.E.
01072	Jun	26	3544	B.C.E.	05:07:09	0427301.7133020	-3544	Jun	27	06:46:11	092342	LNN	Dec.	-1.2173	0.5972	-0.3487	195	---	---	22.8S	80.2W	14	03	3544	B.C.E.
01073	Nov	20	3544	B.C.E.	17:36:40	0427301.2337930	-3544	Nov	21	19:15:42	092342	LPU	Asc.	-0.8935	1.2575	0.1802	302	100	---	12.0N	95.5E	13	08	3544	B.C.E.
01074	May	17	3543	B.C.E.	12:31:49	0427479.0220896	-3543	May	18	14:10:14	092306	LPU	Dec.	0.5785	1.7917	0.8013	315	180	---	10.0S	170.5E	14	01	3543	B.C.E.
01075	Nov	10	3543	B.C.E.	00:29:44	0427655.2564997	-3543	Nov	11	02:08:13	092306	LPU	Asc.	-0.1632	2.5692	1.5482	338	216	094	8.5N	7.8W	13	07	3543	B.C.E.
01076	May	06	3542	B.C.E.	20:27:56	0427833.3527275	-3542	May	07	22:05:45	092271	LPU	Dec.	-0.2014	2.5103	1.4672	360	227	095	6.6S	52.1E	15	01	3542	B.C.E.
01077	Oct	30	3542	B.C.E.	13:46:13	0428010.0737615	-3542	Oct	31	15:24:04	092271	LPU	Asc.	0.5140	1.9341	0.9256	304	180	---	4.7N	153.2E	13	07	3542	B.C.E.
01078	Apr	24	3541	B.C.E.	22:08:18	0428187.4224283	-3541	Apr	25	23:45:35	092237	LPU	Dec.	-0.9843	1.0861	0.0186	293	034	---	3.0S	28.0E	14	01	3541	B.C.E.
01079	Sep	19	3541	B.C.E.	18:05:02	0428335.2534915	-3541	Sep	20	19:42:18	092237	LNN	Asc.	-1.5335	0.0405	-0.9522	055	---	---	13.3S	91.1E	15	06	3541	B.C.E.
01080	Oct	19	3541	B.C.E.	05:22:49	0428364.7241814	-3541	Oct	20	07:00:06	092237	LNN	Asc.	1.1685	0.7030	-0.2751	212	---	---	0.9N	80.8W	14	07	3541	B.C.E.
01081	Mar	15	3540	B.C.E.	11:33:37	0428511.9816826	-3540	Mar	16	13:10:20	092202	LNN	Dec.	1.0315	0.9766	-0.0458	265	---	---	13.8N	168.4W	13	12	3540	B.C.E.
01082	Sep	09	3540	B.C.E.	04:36:41	0428689.6921437	-3540	Sep	10	06:13:22	092202	LPU	Asc.	-0.9085	1.2140	0.1683	288	094	---	16.4S	67.0W	15	05	3540	B.C.E.
01083	Mar	04	3539	B.C.E.	22:49:01	0428866.4507086	-3539	Mar	06	00:25:09	092166	LPU	Dec.	0.2318	2.4184	1.4469	325	207	088	16.6N	23.0E	13	11	3539	B.C.E.
01084	Aug	29	3539	B.C.E.	07:57:39	0429043.8316976	-3539	Aug	30	09:33:44	092166	LPU	Asc.	-0.2219	2.4962	1.4064	371	228	091	19.0S	117.8W	14	05	3539	B.C.E.
01085	Feb	22	3538	B.C.E.	14:54:17	0429221.1210309	-3538	Feb	23	16:29:48	092131	LPU	Dec.	-0.4985	1.9172	0.9691	301	178	---	18.8N	141.5E	14	01	3538	B.C.E.
01086	Aug	18	3538	B.C.E.	07:25:48	0429397.8095811	-3538	Aug	19	09:01:19	092131	LPU	Asc.	0.4819	2.0184	0.9301	357	205	---	21.0S	110.7W	13	05	3538	B.C.E.
01087	Jan	13	3537	B.C.E.	21:17:45	0429546.3873315	-3537	Jan	14	22:52:41	092096	LNN	Dec.	1.4226	0.2485	-0.7528	137	---	---	25.4N	43.3E	15	10	3537	B.C.E.
01088	Feb	12	3537	B.C.E.	07:20:35	0429575.8059644	-3537	Feb	13	08:55:31	092096	LNN	Asc.	-1.2267	0.5913	-0.3771	199	---	---	20.4N	105.5W	14	11	3537	B.C.E.
01089	Aug	06	3537	B.C.E.	10:34:23	0429751.9405443	-3537	Aug	07	12:09:19	092096	LNN	Asc.	1.1702	0.7312	-0.3090	236	---	---	22.1S	158.8W	13	04	3537	B.C.E.
01090	Jan	02	3536	B.C.E.	05:33:33	0429900.7136327	-3536	Jan	03	07:07:52	092060	LPU	Dec.	0.7652	1.4852	0.4234	317	147	---	24.0N	81.9E	14	09	3536	B.C.E.
01091	Jun	27	3536	B.C.E.	12:24:58	0430007.0173430	-3536	Jun	28	13:59:19	092060	LPU	Asc.	-0.7836	1.3973	0.4425	277	129	---	22.7S	170.7E	13	03	3536	B.C.E.
01092	Dec	22	3536	B.C.E.	06:44:24	0430254.7808840	-3536	Dec	23	08:18:48	092060	LPU	Dec.	0.0719	2.7760	1.6772	378	235	104	21.7N	100.6W	14	09	3536	B.C.E.
01093	Jun	17	3535	B.C.E.	05:24:06	0430341.7250670	-3535	Jun	18	06:57:50	092025	LPU	Asc.	-0.0568	2.7273	1.7800	318	206	099	19.8S	84.2W	14	03	3535	B.C.E.
01094	Dec	11	3535	B.C.E.	06:26:14	0430608.7682130	-3535	Dec	12	07:59:59	092025	LPU	Dec.	-0.6157	1.7708	0.6865	341	182	---	18.6N	96.7E	13	09	3535	B.C.E.
01095	Jun	06	3534	B.C.E.	20:41:33	0430786.3621898	-3534	Jun	07	22:14:43	091991	LNN	Asc.	0.7040	1.5569	0.5754	298	155	---	16.3S	47.7E	15	02	3534	B.C.E.
01096	Oct	31	3534	B.C.E.	22:26:08	0430933.4348106	-3534	Nov	01	23:59:18	091991	LNN	Dec.	1.5305	0.0525	-0.9528	064	---	---	6.3N	22.9E	13	07	3534	B.C.E.
01097	Nov	30	3534	B.C.E.	11:42:39	0430962.9879536	-3534	Dec	01	13:15:51	091991	LNN	Dec.	-1.2662	0.5509	-0.4811	204	---	---	14.7N	176.0W	12	08	3534	B.C.E.
01098	May	26	3533	B.C.E.	17:06:10	0431111.2126132	-3533	May	27	18:38:45	091956	LNN	Asc.	-1.2409	0.6085	-0.4456	226	---	---	4.0S	103.4E	15	01	3533	B.C.E.
01099	Apr	26	3533	B.C.E.	06:06:12	0431140.7543075	-3533	May	27	07:38:48	091956	LNN	Asc.	1.5263	0.0746	-0.9594	081	---	---	12.3S	93.7W	14	02	3533	B.C.E.
01100	Oct	20	3533	B.C.E.	12:50:27	0431288.0350380	-3533	Oct	21	14:23:03	091956	LPU	Dec.	0.8381	1.3068	0.3335	269	115	---	1.3N	167.5E	13	07	3533	B.C.E.
01101	Apr	15	3532	B.C.E.	17:58:34	0431465.2490001	-3532	Apr	16	19:30:35	091921	LPU	Asc.	-0.4917	1.9892	0.9232	355	205	---	1.0N	91.8E	14	13	3532	B.C.E.
01102	Oct	10	3532	B.C.E.	04:15:38	0431642.6775262	-3532	Oct	11	05:47:37	091921	LPU	Dec.	0.1856	2.5107	1.5242	323	208	091	3.8S	63.0W	14	06	3532	B.C.E.
01103	Apr	04	3531	B.C.E.	20:57:10	0431819.3703063	-3531	Apr	05	22:28:37	091885	LPU	Dec.	0.2871	2.3469	1.3159	351	219	082	5.9N	48.6E	13	12	3531	B.C.E.
01104	Sep	29	3531	B.C.E.	16:02:58	0431997.1687296	-3531	Sep	30	17:34:21	091885	LPU	Dec.	-0.5170	1.9276	0.9816	328	191	---	8.8S	120.8E	14	06	3531	B.C.E.
01105	Feb	23	3530	B.C.E.	22:28:27	0432144.4364248	-3530	Feb	24	23:59:17	091850	LNN	Asc.	-1.5386	0.0157	-0.9462	034	---	---	17.4N	27.9E	13	11	3530	B.C.E.
01106	Mar	25	3530	B.C.E.	06:51:53	0432213.7860290	-3530	Mar	26	08:22:44	091850	LNN	Asc.	1.0268	0.9628	-0.0150	249	---	---	10.6N	98.8W	13	12	3530	B.C.E.
01107	Sep	18	3530	B.C.E.	20:50:02	0432371.3860763	-3530	Sep	19	22:20:51	091850	LNN	Dec.	-1.2551	0.5920	-0.4881	226	---	---	13.6S	49.5E	15	06	3530	B.C.E.
01108	Feb	13	3529	B.C.E.	15:02:23	0432499.1266533	-3529	Feb	14	16:32:38	091815	LPU	Asc.	-0.8206	1.3276	0.3766	270	117	---	20.4N	139.3E	13	11	3529	B.C.E.
01109	Aug	08	3529	B.C.E.	04:42:23	0432751.6134561	-3529	Aug	09	04:13:38	091815	LPU	Dec.	1.0379	0.9919	-0.0839	279	---	---	22.0S	40.7W	13	04	3529	B.C.E.
01110	Feb	02	3528	B.C.E.	06:38:27	0432853.7767017	-3528	Feb	03	08:08:05	091780	LPU	Asc.	-0.1157	2.6377	1.6537	330	213	098	22.9N	95.2W	14	01	3528	B.C.E.
01111	Jul	28	3528	B.C.E.	07:59:26	0432929.8329368	-3528	Jul	29	09:29:08	091780	LPU	Dec.	0.2707	2.3718	1.3509	341	215	083	23.7S	120.6W	13	04	3528	B.C.E.
01112	Jan	22	3527	B.C.E.	16:48:53	0433208.2006186	-3527	Jan	23	18:17:58	091746	LPU	Asc.	0.6430	1.6997	0.6570	325	174	---	24.5N	111.3E	15	10	3527	B.C.E.
01113	Jul	17	3527	B.C.E.	20:30:45	0433384.3546855	-3527	Jul	18	21:59:52	091746	LPU	Dec.	-0.4663	1.9859	1.0185	310	186	020	24.5S	50.6E	14	04	3527	B.C.E.
01114	Jan	11	3526	B.C.E.	19:36:27	0433562.3169773	-3526	Jan	12	21:04:56	091710	LNN	Asc.	1.3972	0.3389	-0.7494	176	---	---	25.2N	68.1E	14	10	3526	B.C.E.
01115	Jun	08	3526	B.C.E.	05:36:25	0433709.7336227	-3526	Jun	09	07:04:55	091710	LNN	Dec.	1.3618	0.3350	-0.6168	152	---	---	16.1S	86.7W	14			

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Year	Month	Day	Time (UT)	Year	Month	Day							Time (UT)	Pen.		Par.	Lat.	Lon.	Day	Month	Year			
01178	Jan	23	3500	B.C.E.	21:03:34	0443071.3774800	-3500	Jan	24	22:16:55	090801	LPU	Dec.	0.8348	1.3568	0.2962	309	126	---	24.6N	47.9E	15	10	3500	B.C.E.
01179	Jul	19	3500	B.C.E.	04:19:01	0443247.6798697	-3500	Jul	20	05:32:22	090801	LPU	Asc.	-0.8823	1.2176	0.2602	263	098	---	24.9S	66.2W	13	04	3500	B.C.E.
01180	Jan	12	3499	B.C.E.	22:01:36	0443245.4177831	-3499	Jan	13	23:14:22	090766	LTU	Dec.	0.1270	2.6718	1.5792	377	234	101	24.1N	32.2E	14	10	3499	B.C.E.
01181	Jul	08	3499	B.C.E.	21:03:33	0443602.3774620	-3499	Jul	09	22:16:19	090767	LTU	Asc.	-0.1725	2.5187	1.5638	318	204	093	23.6S	41.8E	14	03	3499	B.C.E.
01182	Jan	01	3498	B.C.E.	22:21:10	0443779.4313696	-3498	Jan	02	23:33:24	090732	LPU	Dec.	-0.5780	1.8344	0.7611	342	188	---	22.7N	26.1E	13	09	3498	B.C.E.
01183	Jun	28	3498	B.C.E.	11:33:26	0443956.9815469	-3498	Jun	29	12:45:37	090732	LPU	Dec.	0.5790	1.7920	0.7990	313	180	---	21.4S	176.3W	14	03	3498	B.C.E.
01184	Nov	22	3498	B.C.E.	16:13:04	0444104.1757358	-3498	Nov	23	17:25:16	090732	LNN	Asc.	1.5158	0.0759	-0.9225	076	---	---	14.8N	115.6E	13	08	3498	B.C.E.
01185	Dec	22	3498	B.C.E.	04:42:09	0444133.6959429	-3498	Dec	23	05:54:22	090732	LNN	Asc.	-1.2435	0.5868	-0.4339	208	---	---	20.4N	70.0W	13	09	3498	B.C.E.
01186	May	18	3497	B.C.E.	06:05:09	0444281.7535760	-3497	May	19	07:16:46	090697	LNN	Asc.	-1.4134	0.2947	-0.7647	163	---	---	12.3S	93.6W	14	02	3497	B.C.E.
01187	Jun	16	3497	B.C.E.	19:48:26	0444311.3253017	-3497	Jun	17	21:00:04	090697	LNN	Asc.	1.3888	0.3223	-0.7123	169	---	---	18.5S	59.9E	15	03	3497	B.C.E.
01188	Nov	11	3497	B.C.E.	06:59:17	0444558.7911727	-3497	Nov	12	08:10:54	090697	LPU	Dec.	0.8297	1.3216	0.3494	270	117	---	10.2N	105.6W	13	08	3497	B.C.E.
01189	May	07	3496	B.C.E.	06:47:31	0444635.7829959	-3496	May	08	07:58:33	090662	LPU	Asc.	-0.6652	1.6694	0.6062	338	175	---	7.5S	103.0W	13	01	3496	B.C.E.
01190	Oct	31	3496	B.C.E.	22:13:24	0444813.4259780	-3496	Nov	01	23:24:25	090662	LTU	Dec.	0.1783	2.5267	1.5352	325	209	092	5.3N	26.4E	14	07	3496	B.C.E.
01191	Apr	26	3495	B.C.E.	10:34:49	0444989.9408420	-3495	Apr	27	11:45:18	090627	LTU	Asc.	0.1238	2.6421	1.6197	352	226	101	2.6S	158.3W	13	01	3495	B.C.E.
01192	Oct	21	3495	B.C.E.	09:18:17	0445167.8876969	-3495	Oct	22	10:28:43	090627	LPU	Dec.	-0.5243	1.9482	0.8738	331	190	---	0.2N	139.1W	14	07	3495	B.C.E.
01193	Apr	15	3494	B.C.E.	21:31:34	0445344.3969216	-3494	Apr	16	22:41:27	090592	LPU	Asc.	0.8771	1.2330	0.2640	272	104	---	2.2N	39.0E	13	13	3494	B.C.E.
01194	Oct	10	3494	B.C.E.	13:09:24	0445522.0481940	-3494	Oct	11	14:19:16	090592	LNN	Dec.	-1.2505	0.6114	-0.4835	229	---	---	5.0S	163.9E	14	06	3494	B.C.E.
01195	Mar	06	3493	B.C.E.	06:52:16	0445669.7862976	-3493	Mar	07	08:01:33	090557	LPU	Asc.	-0.9301	1.1247	0.1777	254	075	---	14.8N	98.2W	14	11	3493	B.C.E.
01196	Aug	29	3493	B.C.E.	16:08:26	0445846.2565477	-3493	Aug	30	19:18:43	090557	LNN	Dec.	1.0908	0.8960	-0.1820	267	---	---	17.5S	89.0E	14	05	3493	B.C.E.
01197	Feb	23	3492	B.C.E.	22:19:31	0446204.4302241	-3492	Feb	24	23:28:11	090522	LTU	Asc.	-0.2158	2.4540	1.4701	330	211	090	18.5N	30.3E	15	11	3492	B.C.E.
01198	Aug	18	3492	B.C.E.	23:57:58	0446200.4985933	-3492	Aug	20	01:06:43	090523	LPU	Dec.	0.3357	2.2525	1.2318	336	209	070	20.8S	1.5E	13	05	3492	B.C.E.
01199	Jul	23	3491	B.C.E.	07:56:16	0446378.8307460	-3491	Jul	24	09:04:23	090488	LPU	Asc.	0.5552	1.8607	0.8182	335	190	---	21.7N	114.0W	14	11	3491	B.C.E.
01200	Aug	08	3491	B.C.E.	12:51:25	0446553.0357054	-3491	Aug	09	13:59:34	090488	LTU	Dec.	-0.3859	2.1347	1.1651	313	194	058	23.3S	167.4E	14	04	3491	B.C.E.
01201	Feb	02	3490	B.C.E.	10:18:57	0446732.9298264	-3490	Feb	03	11:26:30	090453	LNN	Asc.	1.3170	0.4835	-0.5997	208	---	---	24.2N	150.3W	14	10	3490	B.C.E.
01202	Jun	29	3490	B.C.E.	20:58:35	0446880.3740162	-3490	Jun	30	22:06:07	090453	LNN	Asc.	1.4904	1.1033	-0.9570	086	---	---	20.8S	42.9E	15	03	3490	B.C.E.
01203	Jul	29	3490	B.C.E.	05:12:38	0446909.7171062	-3490	Jul	30	06:20:11	090453	LNN	Dec.	-1.0731	0.8670	-0.0892	230	---	---	25.0S	78.9W	14	04	3490	B.C.E.
01204	Dec	23	3490	B.C.E.	18:17:18	0447059.2620141	-3490	Dec	24	19:24:52	090453	LPU	Asc.	-0.9172	1.2062	0.1446	293	089	---	21.1N	86.5E	13	09	3490	B.C.E.
01205	Jun	18	3489	B.C.E.	10:07:56	0447234.9221807	-3489	Jun	19	11:14:53	090418	LPU	Dec.	0.8076	1.3795	0.3730	295	134	---	19.5S	154.9W	14	03	3489	B.C.E.
01206	Dec	12	3489	B.C.E.	02:39:06	0447411.6104832	-3489	Dec	13	03:46:06	090418	LTU	Asc.	-0.1729	2.5443	1.5372	334	215	093	19.4N	39.9W	13	09	3489	B.C.E.
01207	Jun	07	3488	B.C.E.	16:24:55	0447589.1839702	-3488	Jun	08	17:31:18	090384	LTU	Dec.	0.0523	2.7901	1.7347	367	233	105	17.4N	110.7E	15	02	3488	B.C.E.
01208	Dec	01	3488	B.C.E.	16:48:25	0447566.2002938	-3488	Dec	02	17:54:50	090384	LPU	Asc.	0.5091	1.9099	0.9376	303	179	---	17.0N	107.1E	14	08	3488	B.C.E.
01209	May	27	3487	B.C.E.	17:19:50	0447943.2221020	-3487	May	28	18:25:39	090349	LPU	Dec.	-0.7149	1.5809	0.5122	334	164	---	14.6S	97.1E	14	02	3487	B.C.E.
01210	Oct	22	3487	B.C.E.	20:38:55	0448091.3603601	-3487	Oct	23	21:44:45	090349	LNN	Asc.	-1.5511	0.0141	-0.9902	033	---	---	0.0N	51.3E	15	07	3487	B.C.E.
01211	Nov	21	3487	B.C.E.	08:28:00	0448120.8527736	-3487	Nov	22	09:33:48	090349	LNN	Asc.	1.1757	0.6913	-0.2900	212	---	---	14.1N	128.2W	14	08	3487	B.C.E.
01212	Apr	17	3486	B.C.E.	08:36:38	0448267.8587685	-3486	Apr	18	09:41:52	090314	LNN	Asc.	1.2491	0.5694	-0.4373	207	---	---	1.9N	127.1W	13	01	3486	B.C.E.
01213	May	16	3486	B.C.E.	19:51:34	0448297.3274754	-3486	May	17	20:56:48	090314	LNN	Dec.	-1.4435	0.2266	-0.8075	140	---	---	11.5S	59.7E	13	02	3486	B.C.E.
01214	Oct	12	3486	B.C.E.	05:50:01	0448445.7430660	-3486	Oct	13	06:55:14	090314	LPU	Asc.	-0.9373	1.1690	0.1078	288	077	---	3.9S	86.2W	14	07	3486	B.C.E.
01215	Apr	05	3485	B.C.E.	21:21:39	0448622.3900328	-3485	Apr	06	22:26:19	090279	LTU	Dec.	0.4381	2.0329	1.0750	311	189	041	5.3N	42.5E	13	13	3485	B.C.E.
01216	Sep	30	3485	B.C.E.	07:48:09	0448799.8251013	-3485	Oct	01	08:52:48	090280	LPU	Asc.	-0.2691	2.4157	1.3138	372	226	083	7.9S	115.6W	14	06	3485	B.C.E.
01217	Mar	26	3484	B.C.E.	14:12:49	0448977.0922347	-3484	Mar	27	15:16:54	090245	LTU	Dec.	-0.3072	2.2647	1.3233	311	195	077	8.6N	150.4E	13	12	3484	B.C.E.
01218	Sep	19	3484	B.C.E.	06:56:25	0449153.7891810	-3484	Sep	20	08:00:32	090245	LPU	Asc.	0.4141	2.1450	1.0522	361	212	037	11.7N	102.6W	13	06	3484	B.C.E.
01219	Feb	14	3483	B.C.E.	21:08:50	0449302.3811290	-3483	Feb	15	22:12:19	090210	LNN	Dec.	1.5558	0.0041	-0.9972	018	---	---	22.3N	48.4E	15	11	3483	B.C.E.
01220	Mar	16	3483	B.C.E.	06:34:57	0449331.7742736	-3483	Mar	17	07:38:27	090210	LNN	Dec.	-1.0645	0.8889	-0.0795	238	---	---	11.7N	94.6W	14	12	3483	B.C.E.
01221	Sep	08	3483	B.C.E.	10:49:17	0449507.9508957	-3483	Sep	09	11:52:48	090210	LNN	Asc.	1.0853	0.8869	-0.1531	253	---	---	14.8S	161.0W	13	05	3483	B.C.E.
01222	Feb	04	3482	B.C.E.	04:32:11	0449656.6890140	-3482	Feb	05	05:35:05	090175	LPU	Dec.	0.8821	1.2697	0.2098									

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar				
			Julian Date (UT)	(UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen. Par.	Pen. Par.	Lat. Lon.	Day Month Year	Day Month Year		
01285	Mar 17 3456 B.C.E.	13:24:55	0459195.0589741	-3456	Mar 18 14:12:49	089275	LTU	Asc.	-0.3412	2.2246	1.2391	327	205	070	11.7N	163.1E	14 12 3456 B.C.E.	14 12 3456 B.C.E.
01286	Sep 09 3456 B.C.E.	16:37:39	0459371.1928173	-3456	Sep 10 17:25:36	089275	LTU	Dec.	0.3691	2.1910	1.1708	332	205	061	14.9S	112.2E	13 05 3456 B.C.E.	13 05 3456 B.C.E.
01287	Mar 06 3455 B.C.E.	22:19:47	0459549.4304044	-3455	Mar 07 23:07:06	089240	LTU	Asc.	0.4360	2.0796	1.0368	346	207	031	16.0N	30.2E	15 11 3455 B.C.E.	15 11 3455 B.C.E.
01288	Aug 30 3455 B.C.E.	05:49:36	0459725.7427794	-3455	Aug 31 06:36:57	089240	LTU	Dec.	-0.3360	2.2275	1.2553	315	197	070	18.8S	85.8W	13 05 3455 B.C.E.	13 05 3455 B.C.E.
01289	Feb 24 3454 B.C.E.	00:19:56	0459903.5138385	-3454	Feb 25 01:06:41	089205	LNN	Asc.	1.2047	0.6869	-0.3908	243	---	---	19.8N	0.5E	14 11 3454 B.C.E.	14 11 3454 B.C.E.
01290	Aug 19 3454 B.C.E.	21:56:29	0460080.4142216	-3454	Aug 20 22:43:13	089205	LNN	Dec.	-0.0126	0.9821	0.0177	242	029	---	22.0S	32.0E	14 05 3454 B.C.E.	14 05 3454 B.C.E.
01291	Jan 14 3453 B.C.E.	00:11:37	0460227.9247286	-3453	Jan 15 10:57:48	089171	LPU	Asc.	-0.9625	1.1165	0.0679	283	061	---	23.2N	150.1W	13 10 3453 B.C.E.	13 10 3453 B.C.E.
01292	Jul 10 3453 B.C.E.	00:53:34	0460405.5371988	-3453	Jul 11 01:39:44	089171	LPU	Dec.	0.9358	1.1509	0.1314	279	083	---	22.7S	15.4W	15 03 3453 B.C.E.	15 03 3453 B.C.E.
01293	Jan 02 3452 B.C.E.	19:39:27	0460582.3190590	-3452	Jan 03 20:25:05	089136	LTU	Asc.	-0.2040	2.4816	1.4859	330	212	090	23.2N	66.7E	13 09 3452 B.C.E.	13 09 3452 B.C.E.
01294	Jun 29 3452 B.C.E.	05:59:53	0460759.7499144	-3452	Jun 30 06:45:27	089136	LTU	Dec.	0.2028	2.5189	1.4535	367	229	094	22.1S	92.8W	14 03 3452 B.C.E.	14 03 3452 B.C.E.
01295	Dec 23 3452 B.C.E.	10:28:18	0460936.9363146	-3452	Dec 24 11:13:54	089136	LPU	Asc.	0.4886	1.9445	0.9783	303	181	---	22.4N	156.6W	13 09 3452 B.C.E.	13 09 3452 B.C.E.
01296	Jun 18 3451 B.C.E.	06:27:29	0461113.7690854	-3451	Jun 19 07:12:30	089101	LNN	Dec.	-0.5499	1.8850	0.8137	351	196	---	20.6S	100.2W	14 03 3451 B.C.E.	14 03 3451 B.C.E.
01297	Nov 13 3451 B.C.E.	14:25:50	0461262.1012774	-3451	Nov 14 15:10:51	089101	LNN	Asc.	-1.5573	0.0052	-1.0041	020	---	---	8.9N	143.6E	14 08 3451 B.C.E.	14 08 3451 B.C.E.
01298	Dec 13 3451 B.C.E.	02:13:25	0461291.5926455	-3451	Dec 14 02:58:26	089101	LNN	Asc.	1.1698	0.7022	-0.2790	214	---	---	20.8N	33.9W	14 09 3451 B.C.E.	14 09 3451 B.C.E.
01299	May 08 3450 B.C.E.	22:37:16	0461438.3425465	-3450	May 09 23:21:43	089067	LNN	Dec.	1.3987	0.2912	-0.7078	151	---	---	6.3S	20.3E	13 01 3450 B.C.E.	13 01 3450 B.C.E.
01300	Jun 07 3450 B.C.E.	09:33:10	0461467.8980285	-3450	Jun 08 10:17:36	089067	LNN	Dec.	-1.2778	0.5289	-0.5016	206	---	---	18.4S	146.9W	13 02 3450 B.C.E.	13 02 3450 B.C.E.
01301	Nov 02 3450 B.C.E.	22:51:21	0461616.4523265	-3450	Nov 03 23:35:47	089067	LPU	Asc.	-0.9424	1.1633	0.0952	289	073	---	5.1N	17.3E	15 07 3450 B.C.E.	15 07 3450 B.C.E.
01302	Apr 27 3449 B.C.E.	12:11:50	0461793.0082192	-3449	Apr 28 12:55:44	089033	LPU	Dec.	0.5890	1.7530	0.8012	298	169	---	3.0S	177.5E	13 01 3449 B.C.E.	13 01 3449 B.C.E.
01303	Oct 22 3449 B.C.E.	00:06:18	0461970.5043800	-3449	Oct 23 00:50:11	089033	LTU	Asc.	-0.2796	2.3987	1.2924	373	225	081	1.1N	1.2W	14 07 3449 B.C.E.	14 07 3449 B.C.E.
01304	Jan 17 3448 B.C.E.	05:21:56	0462147.7235651	-3448	Jan 18 06:05:14	088998	LTU	Dec.	-0.1599	2.5345	1.5944	316	202	094	0.4N	19.2W	14 13 3448 B.C.E.	14 13 3448 B.C.E.
01305	Oct 10 3448 B.C.E.	23:16:04	0462324.4694964	-3448	Oct 11 23:59:24	088998	LTU	Asc.	0.3972	2.1760	1.0834	361	213	046	3.1S	11.6E	13 06 3448 B.C.E.	13 06 3448 B.C.E.
01306	Apr 06 3447 B.C.E.	21:27:16	0462502.3939334	-3447	Apr 07 22:09:59	088964	LPU	Dec.	-0.9285	1.1398	0.1686	265	082	---	3.8N	40.3E	15 12 3447 B.C.E.	15 12 3447 B.C.E.
01307	Sep 30 3447 B.C.E.	03:45:12	0462786.6563919	-3447	Oct 01 04:27:57	088964	LNN	Asc.	1.0605	0.9314	-0.1067	257	---	---	7.0S	55.5W	13 06 3447 B.C.E.	13 06 3447 B.C.E.
01308	Feb 25 3446 B.C.E.	18:56:01	0462827.2889006	-3446	Feb 26 19:38:09	088929	LNT	Dec.	1.0014	1.0501	-0.0084	283	---	---	19.1N	81.6E	15 11 3446 B.C.E.	15 11 3446 B.C.E.
01309	Aug 21 3446 B.C.E.	15:55:53	0463003.7193671	-3446	Aug 22 05:58:03	088929	LPU	Asc.	-0.9815	1.0386	0.0753	247	042	---	21.7S	77.6W	13 05 3446 B.C.E.	13 05 3446 B.C.E.
01310	Jan 14 3445 B.C.E.	19:40:18	0463181.3196515	-3445	Jan 15 20:21:52	088894	LTU	Dec.	0.2733	2.3975	1.3162	371	227	084	21.1N	70.1E	14 11 3445 B.C.E.	14 11 3445 B.C.E.
01311	Aug 09 3445 B.C.E.	21:27:49	0463358.3943176	-3445	Aug 10 22:09:22	088894	LTU	Asc.	-0.2987	2.2944	1.3253	317	200	077	22.9S	38.5E	15 04 3445 B.C.E.	15 04 3445 B.C.E.
01312	Feb 02 3444 B.C.E.	12:12:57	0463535.3839958	-3444	Feb 03 21:53:59	088860	LPU	Dec.	-0.4640	2.0340	0.9799	346	204	---	22.4N	46.1E	13 10 3444 B.C.E.	13 10 3444 B.C.E.
01313	Jul 30 3444 B.C.E.	10:35:46	0463712.9415026	-3444	Jul 31 11:16:44	088860	LPU	Asc.	0.4334	2.0692	1.0565	329	200	036	23.5S	159.5W	14 04 3444 B.C.E.	14 04 3444 B.C.E.
01314	Dec 24 3444 B.C.E.	18:25:01	0463860.2673737	-3444	Dec 25 19:06:02	088860	LNN	Dec.	1.5234	0.0551	-0.9295	064	---	---	23.7N	84.3E	13 09 3444 B.C.E.	13 09 3444 B.C.E.
01315	Jan 23 3443 B.C.E.	05:21:12	0463889.7230597	-3443	Jan 24 06:01:37	088825	LNN	Dec.	-1.1603	0.7299	-0.2716	225	---	---	22.7N	76.9W	13 10 3443 B.C.E.	13 10 3443 B.C.E.
01316	Jul 19 3443 B.C.E.	17:01:51	0464067.2096220	-3443	Jul 20 17:42:16	088825	LNN	Asc.	1.2157	0.6590	-0.4037	233	---	---	22.9S	102.9E	15 04 3443 B.C.E.	15 04 3443 B.C.E.
01317	Dec 14 3443 B.C.E.	09:53:08	0464214.9118951	-3443	Dec 15 10:33:33	088825	LPU	Dec.	0.8359	1.3077	0.3405	269	115	---	20.9N	148.5W	13 09 3443 B.C.E.	13 09 3443 B.C.E.
01318	Jun 09 3442 B.C.E.	02:20:17	0464391.5974227	-3442	Jun 10 03:00:10	088792	LPU	Asc.	-0.9116	1.2168	0.1546	302	094	---	18.6S	38.4W	14 02 3442 B.C.E.	14 02 3442 B.C.E.
01319	Dec 04 3442 B.C.E.	00:59:00	0464569.5409780	-3442	Dec 05 01:38:51	088792	LPU	Dec.	0.1738	2.5367	1.5415	328	211	092	17.4N	15.4W	14 08 3442 B.C.E.	14 08 3442 B.C.E.
01320	May 28 3441 B.C.E.	07:18:00	0464745.8041714	-3441	May 29 07:57:20	088757	LTU	Asc.	-0.1162	2.6516	1.6380	348	224	100	14.6E	112.7W	13 02 3441 B.C.E.	13 02 3441 B.C.E.
01321	Nov 22 3441 B.C.E.	11:08:26	0464923.9641877	-3441	Nov 23 11:47:41	088757	LTU	Dec.	-0.5388	1.8960	0.8432	333	190	---	13.2N	167.2W	14 08 3441 B.C.E.	14 08 3441 B.C.E.
01322	May 17 3440 B.C.E.	19:32:57	0465100.3145508	-3440	May 18 20:11:40	088722	LNN	Asc.	0.6467	1.6516	0.6909	296	161	---	10.3S	65.0E	14 02 3440 B.C.E.	14 02 3440 B.C.E.
01323	Nov 11 3440 B.C.E.	13:54:14	0465278.9793231	-3440	Nov 12 14:32:55	088722	LNN	Dec.	-1.2590	0.5987	-0.5019	229	---	---	8.5N	151.2E	14 08 3440 B.C.E.	14 08 3440 B.C.E.
01324	Apr 08 3439 B.C.E.	05:49:36	0465425.7427828	-3439	Apr 09 06:27:45	088688	LNN	Asc.	-1.1304	0.7563	-0.1889	217	---	---	3.0N	85.3W	13 13 3439 B.C.E.	13 13 3439 B.C.E.
01325	May 07 3439 B.C.E.	12:18:58	0465455.0131672	-3439	May 08 12:57:06	088688	LNN	Asc.	1.3548	0.3410	-0.5973	151	---	---	5.8S	174.8E	14 01 3439 B.C.E.	14 01 3439 B.C.E.
01326	Oct 01 3439 B.C.E.	18:29:11	0465602.2702697	-3439	Oct 02 19:07:20	088688	LNN	Dec.	1.1158	0.8502	-0.2281	259	---	---	6.2S	83.6E	13 06 3439 B.C.E.	13 06 3439 B.C.E.
01327	Mar 28 3438 B.C.E.	20:46:06	0465780.3653416	-3438	Mar 29 21:23:37	088653	LPU	Asc.	-0.4120	2.0955	1.1085	325	200	050	7.7N	51.9E	15 12 3438 B.C.E.	15 12 3438 B.C.E.
01328	Sep 21 3438 B.C.E.	01:10:18	0465956.5488228	-3438	Sep 22 01:47:53	088653	LTU	Dec.	0.3762	2.1775	1.1580	331	204	059	11.1S	16.1W	13 06 3438 B.C.E.	13 06 3438 B.C.E.
01329	Mar 17 3437 B.C.E.	05:17:53	0466134.7207546	-3437	Mar 18 05:54:50	088619	LTU	Asc.	0.3666	2.2074	1.1639	352	215	062	12.3N	74.9W	14 12 3437 B.C.E.	14 12 3437 B.C.E.
01330	Sep 09 3437 B.C.E.	14:31:14	0466311.1050199	-3437	Sep 10 15:08:14	088619	LTU	Dec.	-0.3214	2.2548	1.2815	315	198	073	15.5S	144.0E	13 05 3437 B.C.E.	13 05 3437 B.C.E.
01331	Aug 06 3436 B.C.E.	07:06:48	0466488.7963841	-3436	Aug 07 07:43:11	088584	LNN	Asc.	1.1375	0.8087	-0.2664	260	---	---	16.6N	101.4W	14 11 3436 B.C.E.	14 11 3436 B.C.E.
01332	Aug 30 3436 B.C.E.	06:30:42	0466665.7173237	-3436	Aug 31 07:07:06	088584	LPU	Dec.	-0.9933	1.0195	0.0510	246	030	---	19.3S	96.0W	14 05 3436 B.C.E.	14 05 3436 B.C.E.
01333	Jan 24 3435 B.C.E.	17:57:32	0466813.2482834	-3435	Jan 25 18:33:22	088550	LPU	Dec.	-0.9946	1.0541	0.0123	275	026	---	22.8N	94.4E	13 10 3435 B.C.E.	13 10 3435 B.C.E.
01334	Jul 21 3435 B.C.E.	08:25:23	0466990.8509628	-3435	Jul 22 09:01:14	088515	LPU	Dec.	0.9902	1.0543	0.0280	271	039	---	23.1S	127.6W	14 04 3435 B.C.E.	14 04 3435 B.C.E.
01335	Jan 14 3434 B.C.E.	03:58:48	0467167.6658332	-3434	Jan 15 04:34:06	088516	LPU	Asc.	-0.2289	2.4329	1.4432	328	210	088	23.8N	57.0W	13 10 3434 B.C.E.	13 10 3434 B.C.E.
01336	Jul 10 3434 B.C.E.	12:57:10	0467345.0397038	-3434	Jul 11 13:32:25	088516	LTU	Dec.	0.2684	2.4012	1.3306	366	225	085	23.3S	163.5E	14 03 3434 B.C.E.	14 03 3434 B.C.E.
01337	Jan 03 3433 B.C.E.	19:07:33	0467522.2969112	-3433	Jan 04 19:42:15	088482	LTU	Asc.	0.4691	1.9785	1.0156	304	183	018	23.9N	74.6E	14 09 3433 B.C.E.	14 09 3433 B.C.E.
01338	Jun 28 3433 B.C.E.	13:12:20	0467699.5002326	-3433	Jun 29 13:47:03	088482	LTU	Dec.	-0.									

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (minutes)		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
			Julian Date (UT)	Date (UT)								Pen.	Par.	Umb.	Par.	Lat.	Lon.	Day	Month	Year
01392	Mar 07 3409 B.C.E.	09:21:17	0476351.8897805	-3409	Mar 08 09:42:15	087658	LTU	Dec.	0.4091	2.1444	1.0709	362	215	043	15.5N	135.2W	13	11	3409	B.C.E.
01393	Aug 31 3409 B.C.E.	14:23:14	0476529.0994684	-3409	Sep 01 14:44:11	087658	LTU	Asc.	-0.3493	2.2065	1.2275	317	198	067	18.2S	145.9E	14	05	3409	B.C.E.
01394	Feb 24 3408 B.C.E.	11:49:39	0476705.9928083	-3408	Feb 25 12:10:03	087623	LTU	Dec.	-0.3505	2.2356	1.1945	349	214	067	18.1N	172.3W	13	11	3408	B.C.E.
01395	Aug 21 3408 B.C.E.	02:33:52	0476883.6068940	-3408	Aug 22 02:54:13	087623	LTU	Asc.	0.3693	2.1937	1.1673	337	207	061	20.2S	37.5W	15	05	3408	B.C.E.
01396	Feb 13 3407 B.C.E.	21:08:55	0477060.3811946	-3407	Feb 14 21:28:44	087589	LNN	Dec.	-1.0681	0.8925	-0.0961	243	---	---	19.9N	47.5E	13	11	3407	B.C.E.
01397	Jan 05 3407 B.C.E.	07:48:38	0477237.8254428	-3407	Jan 06 08:08:27	087589	LNN	Asc.	1.1313	0.8201	-0.2548	258	---	---	21.6S	117.1W	14	04	3407	B.C.E.
01398	Jan 05 3406 B.C.E.	03:19:29	0477385.6385304	-3406	Jan 06 03:38:44	087555	LPU	Dec.	0.8667	1.2488	0.2862	264	104	---	24.5N	48.1W	14	09	3406	B.C.E.
01400	Jun 30 3406 B.C.E.	15:55:12	0477562.1633348	-3406	Jul 01 16:14:28	087556	LNN	Asc.	-1.0511	0.9612	-0.1019	275	---	---	23.4S	118.3E	13	03	3406	B.C.E.
01401	Dec 25 3406 B.C.E.	18:20:49	0477740.2644561	-3406	Dec 26 18:40:03	087556	LTU	Dec.	0.1928	2.5022	1.5065	329	212	091	22.5N	85.5E	15	09	3406	B.C.E.
01402	Jun 18 3405 B.C.E.	21:36:39	0477916.4004532	-3405	Jun 19 21:55:22	087521	LPU	Asc.	-0.2576	2.3905	1.3802	341	216	086	20.7S	32.6E	13	03	3405	B.C.E.
01401	Dec 14 3405 B.C.E.	03:58:17	0478094.6654790	-3405	Dec 15 04:16:57	087521	LPU	Dec.	-0.5325	1.9087	0.8539	336	192	---	19.7N	59.6W	14	09	3405	B.C.E.
01403	Jun 08 3404 B.C.E.	10:30:20	0478270.9377363	-3404	Jun 09 10:48:29	087487	LPU	Asc.	0.5021	1.9158	0.9572	307	182	---	17.3S	160.6W	13	02	3404	B.C.E.
01404	Dec 03 3404 B.C.E.	06:12:39	0478448.7587826	-3404	Dec 04 06:30:46	087487	LNN	Dec.	-1.2562	0.6036	-0.4964	230	---	---	16.1N	93.5W	14	08	3404	B.C.E.
01405	Apr 29 3403 B.C.E.	20:48:05	0478596.3667193	-3403	Apr 30 21:05:37	087452	LNN	Asc.	-1.2781	0.4862	-0.4611	180	---	---	5.6S	47.5E	15	01	3403	B.C.E.
01406	May 29 3403 B.C.E.	03:25:23	0478625.6426315	-3403	May 30 03:42:55	087452	LNN	Asc.	1.2150	0.5987	-0.3418	195	---	---	13.5S	53.8W	14	02	3403	B.C.E.
01407	Oct 23 3403 B.C.E.	11:14:49	0478772.9686239	-3403	Oct 24 11:32:22	087452	LNN	Dec.	1.1093	0.8606	-0.2145	259	---	---	2.8N	168.9W	13	07	3403	B.C.E.
01408	Apr 19 3402 B.C.E.	11:10:34	0478950.9656672	-3402	Apr 20 11:27:30	087418	LPU	Asc.	-0.5652	1.8169	0.8251	316	183	---	0.8S	166.7W	14	01	3402	B.C.E.
01409	Oct 12 3402 B.C.E.	18:37:01	0479127.2757035	-3402	Oct 13 18:54:00	087418	LTU	Dec.	0.3750	2.1783	1.1616	329	203	059	2.4S	81.3E	13	07	3402	B.C.E.
01410	Apr 07 3401 B.C.E.	18:51:04	0479305.2854587	-3401	Apr 08 19:07:26	087384	LTU	Asc.	0.2117	2.4927	1.4468	361	227	093	4.2N	79.7E	15	13	3401	B.C.E.
01411	Oct 01 3401 B.C.E.	08:15:30	0479481.8440988	-3401	Oct 02 08:31:55	087384	LTU	Dec.	-0.3094	2.2776	1.3027	315	198	075	7.4S	122.6W	13	06	3401	B.C.E.
01412	Mar 27 3400 B.C.E.	09:19:27	0479659.3468382	-3400	Mar 28 20:35:16	087350	LPU	Asc.	0.9859	1.0847	0.0141	293	029	---	9.0N	59.0E	14	12	3400	B.C.E.
01413	Sep 21 3400 B.C.E.	00:00:12	0479836.5001427	-3400	Sep 22 00:16:02	087350	LPU	Dec.	-0.9742	1.0584	0.0823	251	052	---	12.1S	1.8E	14	06	3400	B.C.E.
01414	Feb 15 3399 B.C.E.	09:05:21	0479983.8787142	-3399	Feb 16 09:20:36	087315	LNN	Asc.	-1.0800	0.8906	-0.1374	255	---	---	19.6N	131.4W	13	11	3399	B.C.E.
01415	Aug 11 3399 B.C.E.	23:52:01	0480161.4944595	-3399	Aug 13 00:07:17	087316	LNN	Dec.	1.0764	0.9031	-0.1368	257	---	---	21.3S	2.4E	15	04	3399	B.C.E.
01416	Feb 04 3398 B.C.E.	20:14:31	0480338.3434125	-3398	Feb 05 20:29:14	087282	LTU	Asc.	-0.2993	2.2976	1.3199	322	203	078	22.3N	61.0E	13	10	3398	B.C.E.
01417	Aug 01 3398 B.C.E.	03:15:40	0480515.6358848	-3398	Aug 02 03:30:21	087282	LTU	Dec.	0.3777	2.2060	1.1248	363	217	056	23.3S	49.3W	14	04	3398	B.C.E.
01418	Jan 25 3397 B.C.E.	12:02:09	0480693.0014918	-3397	Jan 26 12:16:17	087248	LTU	Asc.	0.4118	2.0804	1.1242	307	188	051	24.1N	176.8W	13	10	3397	B.C.E.
01419	Jul 20 3397 B.C.E.	03:10:52	0480869.6325445	-3397	Jul 21 03:25:01	087248	LTU	Dec.	-0.3498	2.2549	1.1782	364	220	066	24.4S	49.1W	14	04	3397	B.C.E.
01420	Jan 14 3396 B.C.E.	03:56:50	0481047.6644644	-3396	Jan 15 04:10:23	087213	LNN	Asc.	1.1226	0.7877	-0.1916	226	---	---	25.2N	56.6W	14	01	3396	B.C.E.
01421	Jul 09 3396 B.C.E.	07:05:22	0481223.7953898	-3396	Jul 10 07:18:55	087213	LNN	Dec.	-1.0678	0.9130	-0.1150	258	---	---	24.5S	108.8W	13	03	3396	B.C.E.
01422	Dec 05 3396 B.C.E.	00:04:24	0481372.5030611	-3396	Dec 06 00:17:57	087213	LPU	Asc.	-0.9592	1.1348	0.0619	289	059	---	16.9N	1.3W	15	08	3396	B.C.E.
01423	May 30 3395 B.C.E.	10:38:06	0481548.9431240	-3395	May 31 10:51:05	087179	LPU	Dec.	0.8099	1.3457	0.3976	273	121	---	14.4S	162.0W	13	02	3395	B.C.E.
01424	Nov 24 3395 B.C.E.	00:37:30	0481726.5260438	-3395	Nov 25 00:50:29	087179	LPU	Asc.	-0.2902	2.3792	1.2730	373	225	079	13.9N	10.1W	14	08	3395	B.C.E.
01425	May 20 3394 B.C.E.	03:53:25	0481903.6620929	-3394	May 21 04:05:49	087145	LTU	Dec.	0.0702	2.7006	1.7572	318	205	099	11.6S	60.4W	14	02	3394	B.C.E.
01426	Nov 13 3394 B.C.E.	00:14:26	0482080.5100277	-3394	Nov 14 00:26:53	087145	LTU	Asc.	0.3908	2.1847	1.0982	358	212	049	10.4N	4.5W	13	08	3394	B.C.E.
01427	May 08 3393 B.C.E.	19:13:52	0482258.3013019	-3393	May 09 19:25:43	087111	LPU	Dec.	-0.7034	1.5573	0.5774	298	155	---	8.5S	70.1E	15	01	3393	B.C.E.
01428	Nov 01 3393 B.C.E.	05:50:07	0482434.7431366	-3393	Nov 02 06:01:58	087111	LNN	Asc.	1.0501	0.9470	-0.0840	256	---	---	6.6N	88.3W	13	07	3393	B.C.E.
01429	Mar 29 3392 B.C.E.	15:21:59	0482583.1402678	-3392	Mar 30 15:33:16	087076	LNN	Dec.	1.2307	0.6293	-0.4288	230	---	---	8.5N	133.4E	14	12	3392	B.C.E.
01430	Apr 28 3392 B.C.E.	04:31:59	0482612.6888736	-3392	Apr 29 04:43:14	087076	LNN	Dec.	-1.5349	0.0588	-0.9751	072	---	---	5.1S	68.6W	15	01	3392	B.C.E.
01431	Sep 22 3392 B.C.E.	07:28:47	0482759.8116563	-3392	Sep 23 07:40:03	087076	LNN	Asc.	-1.0239	0.9636	-0.0054	240	---	---	11.6S	110.2W	13	06	3392	B.C.E.
01432	Mar 18 3391 B.C.E.	16:01:47	0482937.1679029	-3391	Mar 19 16:12:31	087043	LPU	Dec.	0.4857	2.0021	0.9322	356	206	---	11.9N	124.1E	14	12	3391	B.C.E.
01433	Sep 11 3391 B.C.E.	23:01:48	0483114.4595831	-3391	Sep 12 23:12:30	087043	LTU	Asc.	-0.3653	2.1796	1.1957	317	197	063	14.8S	16.4E	14	06	3391	B.C.E.
01434	Mar 07 3390 B.C.E.	18:58:17	0483291.2904741	-3390	Mar 08 19:08:28	087009	LPU	Dec.	-0.2839	2.3546	1.3198	351	219	082	15.0N	80.3E	14	12	3390	B.C.E.
01435	Sep 01 3390 B.C.E.	10:43:36	0483468.9469432	-3390	Sep 02 10:53:43	087009	LPU	Asc.	0.3470	2.2380	1.2051	340	210	067	17.5S	159.5W	14	05	3390	B.C.E.
01436	Feb 25 3389 B.C.E.	04:52:33	0483645.7031600	-3389	Feb 26 05:02:08	086975	LPN	Dec.	-1.0120	0.9924	0.0098	252	022	---	17.4N	68.3E	13	11	3389	B.C.E.
01437	Aug 20 3389 B.C.E.	15:24:54	0483823.1422946	-3389	Aug 21 15:34:29	086945	LNN	Asc.	1.0994	0.8815	-0.1992	267	---	---	19.6S	129.5E	14	05	3389	B.C.E.
01438	Jan 15 3388 B.C.E.	11:24:37	0483970.9927912	-3388	Jan 16 11:58:37	086945	LPU	Dec.	0.8932	1.1989	0.2388	261	093	---	25.0N	174.4W	14	10	3388	B.C.E.
01439	Jul 10 3388 B.C.E.	22:57:19	0484147.4564677	-3388	Jul 11 23:06:19	086940	LNN	Asc.	-1.1102	0.8532	-0.2106	261	---	---	24.7S	13.6E	14	03	3388	B.C.E.
01440	Jan 05 3387 B.C.E.	02:50:05	0484325.6181188	-3387	Jan 06 02:58:29	086906	LPU	Dec.	0.2121	2.4667	1.4711	330	212	089	23.9N	40.7W	14	09	3387	B.C.E.
01441	Jun 30 3387 B.C.E.	04:58:08	0484501.70703																	

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)	(JD)	(TD)	(Time)		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
01499	Feb	16	3361	B.C.E.	04:23:17	0493863	6828376	-3361	Feb 17	04:17:00	086023	LTU	Asc.	0.3273	2.2323	1.2821	311	194	073	20.8N	60.7W	14	11	3361	B.C.E.
01500	Aug	10	3361	B.C.E.	17:50:40	0494040	2435199	-3361	Aug 11	17:44:25	086023	LTU	Dec.	-0.2563	2.4285	1.3479	368	226	086	22.6S	92.8E	14	04	3361	B.C.E.
01501	Feb	04	3360	B.C.E.	20:20:16	0494218	3474116	-3360	Feb 05	20:13:25	085989	LNN	Asc.	0.0594	0.9031	-0.0749	240	---	---	23.5N	59.6E	15	10	3360	B.C.E.
01502	Jul	30	3360	B.C.E.	22:16:43	0494394	4282722	-3360	Jul 31	22:09:52	085989	LPU	Dec.	-0.9637	1.1038	0.0760	276	064	---	24.6S	25.4E	13	04	3360	B.C.E.
01503	Dec	26	3360	B.C.E.	16:19:54	0494543	1804854	-3360	Dec 27	16:13:02	085989	LPU	Asc.	-0.9926	1.0736	0.0007	285	006	---	21.7N	116.1E	15	09	3360	B.C.E.
01504	Jun	21	3359	B.C.E.	01:56:36	0494719	5809756	-3359	Jun 22	01:49:11	085955	LPU	Dec.	0.9415	1.1047	0.1559	253	069	---	19.9S	32.0W	14	03	3359	B.C.E.
01505	Dec	15	3359	B.C.E.	16:38:12	0494897	1931975	-3359	Dec 16	16:30:47	085955	LPU	Asc.	-0.3124	2.3363	1.2344	372	223	074	20.2N	110.5E	14	09	3359	B.C.E.
01506	Jun	10	3358	B.C.E.	19:02:10	0495074	2931659	-3358	Jun 11	18:54:10	085921	LTU	Dec.	0.2156	2.4369	1.4877	317	202	089	18.2S	71.4E	15	02	3358	B.C.E.
01507	Dec	04	3358	B.C.E.	16:48:15	0495251	2001768	-3358	Dec 05	16:40:18	085921	LTU	Asc.	0.3790	2.2022	1.1238	356	213	055	17.9N	107.2E	13	08	3358	B.C.E.
01508	May	30	3357	B.C.E.	09:40:26	0495428	9030749	-3357	May 31	09:31:51	085887	LPU	Dec.	-0.5534	1.8371	0.8481	316	183	---	15.9S	148.2W	14	02	3357	B.C.E.
01509	Nov	22	3357	B.C.E.	23:19:03	0495605	4715580	-3357	Nov 23	23:10:30	085887	LNN	Asc.	1.0441	0.9540	-0.0691	254	---	---	14.9N	9.0E	13	08	3357	B.C.E.
01510	Apr	20	3356	B.C.E.	04:25:48	0495753	6845812	-3356	Apr 21	04:16:40	085853	LNN	Dec.	1.4054	0.3096	-0.7502	167	---	---	0.3N	64.9W	14	01	3356	B.C.E.
01511	May	19	3356	B.C.E.	17:54:32	0495783	2462075	-3356	May 20	17:45:26	085853	LNN	Dec.	-1.3768	0.3527	-0.6886	174	---	---	13.0S	88.7E	15	02	3356	B.C.E.
01512	Oct	14	3356	B.C.E.	01:27:49	0495930	5609817	-3356	Oct 15	01:18:42	085853	LNN	Asc.	-0.1297	0.9544	-0.0172	239	---	---	2.8S	20.9W	14	07	3356	B.C.E.
01513	Apr	09	3355	B.C.E.	05:05:59	0496116	7124875	-3355	Apr 10	04:56:19	085820	LPU	Dec.	0.6530	1.6919	0.6282	339	178	---	4.0N	73.9W	13	13	3355	B.C.E.
01514	Oct	03	3355	B.C.E.	16:37:07	0496285	1924426	-3355	Oct 04	16:27:25	085820	LTU	Asc.	-0.3813	2.1545	1.1621	319	198	058	6.5S	112.0E	15	06	3355	B.C.E.
01515	Mar	29	3354	B.C.E.	09:00:23	0496461	8752619	-3354	Mar 30	08:50:11	085786	LTU	Dec.	-0.1346	2.6229	1.5996	352	225	100	7.6N	131.7W	13	12	3354	B.C.E.
01516	Sep	23	3354	B.C.E.	03:25:01	0496639	6423707	-3354	Sep 24	03:14:45	085786	LTU	Asc.	0.3224	2.2891	1.2444	344	212	072	10.2S	49.9W	14	06	3354	B.C.E.
01517	Mar	17	3353	B.C.E.	02:01:54	0496816	3346518	-3353	Mar 18	01:51:07	085752	LPU	Dec.	-0.8815	1.2262	0.2548	271	102	---	10.8N	63.5E	13	12	3353	B.C.E.
01518	Sep	11	3353	B.C.E.	07:01:45	0496993	7928819	-3353	Sep 12	06:50:56	085752	LNN	Asc.	1.0556	0.9672	-0.1239	279	---	---	13.5S	104.2W	14	06	3353	B.C.E.
01519	Feb	06	3352	B.C.E.	04:25:30	0497141	6843739	-3352	Feb 07	04:14:08	085718	LPU	Dec.	0.9670	1.0612	0.1057	249	053	---	23.2N	61.4W	14	11	3352	B.C.E.
01520	Aug	01	3352	B.C.E.	13:31:21	0497318	0634336	-3352	Aug 02	13:19:59	085718	LNN	Asc.	-0.2067	0.6770	-0.3888	236	---	---	24.6S	157.1E	13	04	3352	B.C.E.
01521	Jan	26	3351	B.C.E.	19:18:20	0497496	3043949	-3351	Jan 27	19:06:22	085684	LTU	Dec.	0.1233	2.3540	1.3589	330	210	082	23.8N	74.4E	15	10	3351	B.C.E.
01522	Jul	21	3351	B.C.E.	20:09:46	0497672	3401161	-3351	Jul 22	19:57:52	085684	LTU	Asc.	-0.4252	2.0822	1.0737	329	201	041	24.5S	56.3E	13	04	3351	B.C.E.
01523	Jan	16	3350	B.C.E.	04:08:15	0497850	3723987	-3350	Jan 17	03:55:43	085650	LPU	Dec.	-0.4731	2.0176	0.9627	344	201	---	23.6N	59.2W	14	10	3350	B.C.E.
01524	Jul	11	3350	B.C.E.	09:45:03	0498026	9062905	-3350	Jul 12	09:32:35	085650	LPU	Asc.	0.3193	2.2517	1.2922	315	198	074	23.4S	148.4W	13	03	3350	B.C.E.
01525	Jan	05	3349	B.C.E.	05:47:04	0498204	7140146	-3349	Jan 06	05:33:59	085616	LNN	Dec.	-1.2084	0.6883	-0.4059	244	---	---	22.5N	85.0W	14	09	3349	B.C.E.
01526	May	31	3349	B.C.E.	19:11:59	0498352	2999926	-3349	Jun 01	18:58:55	085616	LNN	Asc.	-1.4985	0.0861	-0.8697	079	---	---	17.3S	68.8E	15	02	3349	B.C.E.
01527	Jun	30	3349	B.C.E.	02:34:40	0498381	6704073	-3349	Jul 01	02:21:36	085616	LNN	Asc.	1.0291	0.9439	-0.0049	237	---	---	21.5S	41.4W	14	03	3349	B.C.E.
01528	Nov	24	3349	B.C.E.	12:35:44	0498529	0248186	-3349	Nov 25	12:22:41	085616	LNN	Dec.	1.0952	0.8811	-0.1834	259	---	---	15.6N	170.0E	12	08	3349	B.C.E.
01529	May	21	3348	B.C.E.	08:24:20	0498706	8502370	-3348	May 22	08:10:42	085583	LPU	Asc.	-0.8049	1.3829	0.3793	295	136	---	13.1S	128.5W	14	02	3348	B.C.E.
01530	Nov	13	3348	B.C.E.	21:10:56	0498883	3825911	-3348	Nov 14	20:57:21	085583	LTU	Dec.	0.3593	2.2029	1.1946	326	203	063	11.0N	41.4E	13	08	3348	B.C.E.
01531	May	10	3347	B.C.E.	14:36:57	0499061	1089900	-3347	May 11	14:22:45	085549	LPU	Asc.	-0.0424	2.8069	1.7540	367	233	106	8.6S	139.5E	14	01	3347	B.C.E.
01532	Nov	03	3347	B.C.E.	11:23:47	0499237	9748491	-3347	Nov 04	11:09:36	085549	LTU	Dec.	-0.3169	2.2637	1.2894	314	197	073	6.2N	171.3W	13	07	3347	B.C.E.
01533	Apr	29	3346	B.C.E.	15:34:32	0499313	1489812	-3346	Apr 30	15:19:48	085515	LPU	Asc.	0.7276	1.5563	0.4901	332	161	---	3.7S	126.5E	13	01	3346	B.C.E.
01534	Oct	24	3346	B.C.E.	02:52:47	0499592	1199834	-3346	Oct 25	02:38:01	085515	LPU	Dec.	-0.9810	1.0504	0.0655	252	049	---	1.2N	42.8W	14	07	3346	B.C.E.
01535	Mar	19	3345	B.C.E.	06:58:42	0499739	7907652	-3345	Mar 20	06:43:23	085481	LNN	Asc.	-1.2517	0.5657	-0.4430	206	---	---	9.9N	100.8W	13	12	3345	B.C.E.
01536	Apr	17	3345	B.C.E.	18:19:36	0499769	2636107	-3345	Apr 18	18:04:16	085481	LNN	Asc.	1.4546	0.2053	-0.8269	133	---	---	1.2N	86.7E	13	01	3345	B.C.E.
01537	Sep	12	3345	B.C.E.	23:59:48	0499917	4998589	-3345	Sep 13	23:44:28	085481	LNN	Dec.	1.1494	0.7790	-0.2802	245	---	---	12.8S	1.4E	15	06	3345	B.C.E.
01538	Mar	08	3344	B.C.E.	19:44:23	0500094	3224890	-3344	Mar 09	19:28:31	085447	LTU	Asc.	-0.4538	2.0661	1.0445	310	187	031	14.2N	68.7W	14	12	3344	B.C.E.
01539	Sep	02	3344	B.C.E.	01:51:35	0500271	5774856	-3344	Sep 03	01:35:41	085447	LPU	Dec.	0.4801	2.0254	0.9297	360	205	---	16.9S	26.4W	14	05	3344	B.C.E.
01540	Feb	26	3343	B.C.E.	12:22:45	0500449	10517943	-3343	Feb 27	12:06:17	085413	LTU	Asc.	0.2763	2.3247	1.3770	313	197	081	18.1N	179.6E	13	11	3343	B.C.E.
01541	Aug	22	3343	B.C.E.	01:26:18	0500625	5599319	-3343	Aug 23	01:09:52	085413	LTU	Dec.	-0.2221	2.4920	1.4099	368	227	091	20.5S	20.4W	13	05	3343	B.C.E.
01542	Feb	16	3342	B.C.E.	04:17:41	0500803	6789451	-3342	Feb 17	04:00:39	085379	LNN	Asc.	1.0176	0.9797	0.0020	249	101	---	21.4N	59.1W	14	11	3342	B.C.E.
01543	Jan	11	3342	B.C.E.	06:07:59	0500979	7555452	-3342	Jan 12	05:50:58	085379	LPU	Dec.	-0.9231	1.1782	0.1504	282								

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar			
			Julian Date (UT)	(UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen. Par.	Par. Tot.	Lat. Lon.	Day Month Year		
01606	Feb 06 3314 B.C.E.	19:20:44	0511021.3060631	-3314	Feb 07 18:47:58	084436	LTU	Dec.	-0.3926	2.1649	1.1110	351	211	052	21.8N	74.4E	15 11 3314 B.C.E.
01607	Aug 02 3314 B.C.E.	01:57:01	0511197.5812604	-3314	Aug 03 01:24:18	084436	LTU	Asc.	0.2295	2.4180	1.4557	318	202	087	23.3S	29.6W	13 04 3314 B.C.E.
01608	Jan 26 3313 B.C.E.	20:42:50	0511375.3630843	-3313	Jan 27 20:09:33	084403	LNN	Dec.	-1.1380	0.8145	-0.2735	262	---	---	22.6N	53.0E	14 10 3313 B.C.E.
01609	Jul 21 3313 B.C.E.	18:31:28	0511552.2718493	-3313	Jul 22 17:58:11	084403	LPU	Asc.	0.9308	1.1283	0.1714	255	076	---	23.1S	80.4E	14 04 3313 B.C.E.
01610	Dec 16 3313 B.C.E.	05:17:04	0511699.7201818	-3313	Dec 17 04:43:47	084403	LNN	Dec.	1.1006	0.8659	-0.1881	255	---	---	21.8N	79.4W	13 09 3313 B.C.E.
01611	Jun 11 3312 B.C.E.	22:34:52	0511877.4408823	-3312	Jun 12 22:01:01	084369	LPU	Asc.	-0.9579	1.1075	0.0933	275	071	---	19.8S	18.0E	15 02 3312 B.C.E.
01612	Dec 05 3312 B.C.E.	14:47:49	0512054.1165442	-3312	Dec 06 14:14:01	084370	LTU	Dec.	0.3576	2.2020	1.2020	323	202	064	18.4N	137.4E	12 08 3312 B.C.E.
01613	Jun 01 3311 B.C.E.	03:43:24	0512231.6551418	-3311	Jun 02 03:08:59	084336	LTU	Asc.	-0.2116	2.5000	1.4402	367	229	094	16.0S	58.8W	14 02 3311 B.C.E.
01614	Nov 25 3311 B.C.E.	05:29:34	0512408.7288636	-3311	Nov 26 04:55:10	084336	LTU	Dec.	-0.3213	2.2540	1.2826	313	196	072	14.4N	83.2W	13 08 3311 B.C.E.
01615	May 21 3310 B.C.E.	04:23:25	0512585.6829297	-3310	May 22 03:48:28	084302	LPU	Asc.	0.5518	1.8785	0.8132	350	196	---	11.8S	67.9W	14 02 3310 B.C.E.
01616	Nov 14 3310 B.C.E.	20:52:49	0512763.3700134	-3310	Nov 15 20:17:51	084302	LPU	Dec.	-0.9928	1.0305	0.0422	251	038	---	10.0N	46.3E	14 08 3310 B.C.E.
01617	Apr 09 3309 B.C.E.	21:14:41	0512910.3851942	-3309	Apr 10 20:39:10	084269	LNN	Asc.	-1.3849	0.3160	-0.6821	156	---	---	1.6N	43.0E	13 13 3309 B.C.E.
01618	May 09 3309 B.C.E.	07:53:17	0512939.8286703	-3309	May 10 07:17:47	084269	LNN	Asc.	1.2869	0.5094	-0.5157	202	---	---	7.2S	119.2W	13 01 3309 B.C.E.
01619	Oct 04 3309 B.C.E.	16:35:55	0513088.1961225	-3309	Oct 05 16:00:24	084269	LNN	Dec.	1.1671	0.7517	-0.3179	244	---	---	4.4S	111.6E	15 06 3309 B.C.E.
01620	Mar 30 3308 B.C.E.	10:55:27	0513264.9551785	-3308	Mar 31 10:19:23	084235	LPU	Asc.	-0.5830	1.7646	0.8115	298	169	---	6.4N	160.8W	13 12 3308 B.C.E.
01621	Sep 23 3308 B.C.E.	17:37:34	0513442.2344194	-3308	Sep 24 17:01:29	084235	LPU	Dec.	0.5109	1.9726	0.8697	359	201	---	9.5S	96.9E	14 06 3308 B.C.E.
01622	Mar 20 3307 B.C.E.	03:58:20	0513619.6655132	-3307	Mar 21 03:21:41	084201	LTU	Asc.	0.1553	2.5450	1.6008	316	203	094	11.0N	55.3W	14 12 3307 B.C.E.
01623	Sep 12 3307 B.C.E.	17:09:15	0513796.2147537	-3307	Sep 13 16:32:37	084201	LTU	Dec.	-0.1783	2.5733	1.4891	368	228	096	14.1S	104.3E	14 06 3307 B.C.E.
01624	Apr 09 3306 B.C.E.	19:43:30	0513974.3218782	-3306	Apr 10 19:06:18	084168	LPU	Asc.	0.9131	1.1717	0.1935	268	091	---	15.3N	69.2E	15 12 3306 B.C.E.
01625	Sep 01 3306 B.C.E.	22:24:10	0514150.4334438	-3306	Sep 02 21:46:58	084168	LPU	Dec.	-0.8676	1.2801	0.2525	288	112	---	18.3S	25.6E	13 05 3306 B.C.E.
01626	Jan 28 3305 B.C.E.	15:29:21	0514299.1453800	-3305	Jan 29 14:51:35	084134	LNN	Asc.	-1.0946	0.8850	-0.1850	266	---	---	22.4N	131.7E	15 10 3305 B.C.E.
01627	Jul 23 3305 B.C.E.	10:46:25	0514475.5738967	-3305	Jul 24 10:08:39	084134	LNN	Dec.	1.0966	0.8226	-0.1312	224	---	---	22.9S	27.6W	14 04 3305 B.C.E.
01628	Aug 21 3305 B.C.E.	01:49:38	0514745.9511312	-3305	Aug 22 10:11:53	084134	LNN	Dec.	-1.5044	0.0848	-0.8897	079	---	---	21.8S	161.1W	13 05 3305 B.C.E.
01629	Jan 16 3304 B.C.E.	15:39:58	0514653.1527583	-3304	Jan 17 15:01:39	084100	LTU	Asc.	-0.3922	2.1844	1.0932	366	216	049	23.7N	128.1E	14 10 3304 B.C.E.
01630	Jul 12 3304 B.C.E.	18:21:07	0514830.2646622	-3304	Jul 13 17:42:47	084101	LTU	Dec.	0.3981	2.1083	1.1463	312	192	055	23.4S	82.8E	15 03 3304 B.C.E.
01631	Nov 05 3303 B.C.E.	17:00:43	0515007.2088293	-3303	Nov 06 16:21:53	084068	LTU	Asc.	0.3261	2.2907	1.2293	354	216	072	24.0N	106.6E	13 09 3303 B.C.E.
01632	Jul 02 3303 B.C.E.	07:38:44	0515184.8185637	-3303	Jul 03 06:59:50	084068	LTU	Dec.	-0.3519	2.2157	1.2092	334	209	067	23.1S	117.4W	15 03 3303 B.C.E.
01633	Dec 26 3303 B.C.E.	01:06:23	0515361.5460970	-3303	Dec 27 00:27:31	084034	LPU	Asc.	1.0105	1.0076	0.0002	257	003	---	23.5N	16.1W	13 09 3303 B.C.E.
01634	Jun 21 3302 B.C.E.	14:08:56	0515539.0895319	-3302	Jun 22 13:29:30	084034	LNN	Dec.	-1.1517	0.7729	-0.2828	250	---	---	22.0S	144.3E	14 03 3302 B.C.E.
01635	Nov 16 3302 B.C.E.	04:40:23	0515686.6947078	-3302	Nov 17 04:00:57	084034	LNN	Asc.	-1.0289	0.9560	-0.0159	239	---	---	10.5N	70.4W	14 08 3302 B.C.E.
01636	May 11 3301 B.C.E.	00:29:35	0515863.5205452	-3301	May 11 23:49:37	084001	LPU	Dec.	0.9161	1.2060	0.1488	301	093	---	8.2S	8.4W	14 01 3301 B.C.E.
01637	Nov 04 3301 B.C.E.	19:23:03	0516041.7076791	-3301	Nov 05 18:43:03	084001	LTU	Asc.	-0.3832	2.1558	1.1542	322	200	057	7.0N	68.9E	15 07 3301 B.C.E.
01638	Apr 30 3300 B.C.E.	05:49:05	0516217.7424160	-3300	May 01 05:08:33	083967	LTU	Dec.	0.1104	2.6603	1.6508	347	224	101	4.8S	87.5W	13 01 3300 B.C.E.
01639	Oct 25 3300 B.C.E.	04:58:44	0516395.7045996	-3300	Oct 26 04:18:09	083967	LPU	Asc.	0.3170	2.3059	1.2476	349	214	073	3.2N	74.9W	14 07 3300 B.C.E.
01640	Apr 19 3299 B.C.E.	18:18:45	0516572.2630085	-3299	Apr 20 17:37:38	083933	LPU	Dec.	-0.6560	1.6337	0.6748	295	159	---	1.3S	296.0E	14 01 3299 B.C.E.
01641	Oct 14 3299 B.C.E.	07:16:11	0516749.8029042	-3299	Oct 15 06:35:04	083933	LNT	Asc.	1.0307	1.0182	-0.0837	287	---	---	0.9S	109.0W	14 07 3299 B.C.E.
01642	Mar 11 3298 B.C.E.	04:14:12	0516897.6752221	-3298	Mar 12 03:32:31	083900	LNN	Dec.	1.1312	0.7577	-0.1932	218	---	---	15.0N	58.2W	14 12 3298 B.C.E.
01643	Apr 09 3298 B.C.E.	11:07:51	0516926.9637879	-3298	Apr 10 10:26:11	083900	LNN	Dec.	-1.3657	0.3215	-0.6179	147	---	---	2.1N	165.4W	14 13 3298 B.C.E.
01644	Sep 03 3298 B.C.E.	12:45:35	0517074.0316504	-3298	Sep 04 12:03:54	083900	LNN	Asc.	-1.2911	0.5235	-0.5446	209	---	---	18.1S	170.6E	13 05 3298 B.C.E.
01645	Feb 28 3297 B.C.E.	18:44:40	0517252.2810237	-3297	Feb 29 18:02:25	083866	LTU	Dec.	0.4237	2.0783	1.0828	326	200	044	17.6N	84.2E	15 11 3297 B.C.E.
01646	Aug 22 3297 B.C.E.	20:15:17	0517428.3439477	-3297	Aug 23 19:33:05	083866	LPU	Asc.	-0.5267	1.8959	0.8875	319	187	---	20.4S	57.5E	13 05 3297 B.C.E.
01647	Jul 17 3296 B.C.E.	02:41:02	0517606.9118334	-3296	Jul 18 01:58:14	083834	LTU	Dec.	-0.3401	2.2610	1.2075	355	217	069	19.7N	35.2W	15 11 3296 B.C.E.
01648	Aug 12 3296 B.C.E.	10:15:27	0517782.9273981	-3296	Aug 13 09:32:42	083834	LTU	Asc.	0.1941	2.4837	1.5198	318	204	090	21.9S	153.4W	13 05 3296 B.C.E.
01649	Feb 06 3295 B.C.E.	03:56:19	0517960.6641054	-3295	Feb 07 03:12:59	083800	LNN	Dec.	-1.0907	0.8995	-0.1851	273	---	---	21.3N	54.6W	14 11 3295 B.C.E.
01650	Aug 02 3295 B.C.E.	02:40:45	0518137.6116302	-3295	Aug 03 01:57:24	083800	LNN	Asc.	0.8908	1.2040	0.2427	262	095	---	22.6S	40.6W	14 04 3295 B.C.E.
01651	Dec 27 3295 B.C.E.	13:29:15	0518285.9619768	-3295	Dec 28 12:45:55	083800	LNN	Dec.	1.1114	0.8430	-0.2050	251	---	---	23.8N	158.6E	12 09 3295 B.C.E.
01652	Jun 23 3294 B.C.E.	05:44:02	0518462.7389090	-3294	Jun 24 05:00:07	083766	LNN	Asc.	-1.0293	0.9796	-0.0404	264	---	---	22.3S	89.2W	15 03 3294 B.C.E.
01653	Dec 16 3294 B.C.E.	23:29:29	0518639.4788069	-3294	Dec 17 22:45:36	083766	LTU	Dec.	0.3636	2.1885	1.1934	322	201	063	21.1N	7.6E	13 09 3294 B.C.E.
01654	Jun 11 3293 B.C.E.	10:21:12	0518816.9313895	-3293	Jun 12 09:36:44	083733	LTU	Asc.	-0.2914	2.3556	1.2918	365	224	081	19.1S	158.5W	14 02 3293 B.C.E.
01655	Dec 05 3293 B.C.E.	14:26:09	0518994.1014889	-3293	Dec 06 13:41:42	083733	LTU	Dec.	-0.3181	2.2589	1.2894	313	196	073	17.8N	142.9E	13 08 3293 B.C.E.
01656	May 31 3292 B.C.E.	05:53:51	0519170.9540601	-3292	Jun 01 10:08:50	083699	LPU	Asc.	0.4677	2.0329	0.9675	356	208	---	15.4S	166.2W	13 02 3292 B.C.E.
01657	Nov 25 3292 B.C.E.	05:49:13	0519348.7425106	-3292	Nov 26 05:04:11	083699	LPU	Dec.	-0.9964	1.0243	0.0351	251	034	---	13.9N	87.9W	14 08 3292 B.C.E.
01658	Apr 21 3291 B.C.E.	04:20:28	0519495.6808803	-3291	Apr 22 03:34:54	083666	LNN	Asc.	-1.4541	0.1867	-0.8068						

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)			Date and Time of Maximum Eclipse			Delta T (seconds)			Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar	
	Month	Day	Time	Year	Month	Day	Time	Year	Month	Day	Time	Year						Pen.	Par.	Pen.	Par.	Lat.	Lon.	Day	Month
01713	Jan	27	08:31:52	0528177	8554572	-3267	Jan	28	07:32:59	082865	LTU	Asc.	0.2576	2.4098	1.3616	354	220	085	23.7N	124.0W	13	10	3267	B.C.E.	
01714	Jul	23	22:43:59	0528355	4472124	-3267	Jul	24	21:45:03	082866	LPU	Dec.	-0.2451	2.4183	1.3985	343	217	087	24.2S	17.9E	15	04	3267	B.C.E.	
01715	Jan	16	17:46:10	0528532	2403970	-3266	Jan	17	16:46:44	082863	LPU	Asc.	0.9593	1.0954	0.1002	263	069	---	25.0N	96.3E	14	10	3266	B.C.E.	
01716	Jul	13	04:03:33	0528709	6691294	-3266	Jul	14	03:04:05	082833	LNT	Dec.	-1.0245	1.0119	-0.0549	281	---	---	24.8S	63.0W	14	03	3266	B.C.E.	
01717	Dec	07	22:38:36	0528857	4434713	-3266	Dec	08	21:39:09	082833	LNN	Asc.	-1.0365	0.9410	-0.0289	238	---	---	17.6N	20.2E	14	08	3266	B.C.E.	
01718	Jun	01	13:36:39	0529034	0671218	-3265	Jun	02	12:36:39	082799	LNN	Dec.	1.0829	0.8988	-0.1561	267	---	---	15.3S	153.3E	13	02	3265	B.C.E.	
01719	Nov	26	02:36:39	0529212	0476965	-3265	Nov	27	12:08:39	082799	LPU	Asc.	-0.3850	2.1541	1.1491	324	200	056	15.1N	162.1E	14	08	3265	B.C.E.	
01720	May	21	19:48:55	0529388	3256364	-3264	May	22	18:48:23	082766	LPU	Dec.	0.2722	2.3602	1.3571	339	215	084	12.5S	60.6E	13	02	3264	B.C.E.	
01721	Nov	15	23:02:44	0529566	4185636	-3264	Nov	16	21:02:08	082766	LPU	Asc.	0.3187	2.3054	1.2416	352	215	073	11.9N	28.3E	15	08	3264	B.C.E.	
01722	Nov	11	09:05:46	0529742	8790023	-3263	Nov	12	08:04:40	082733	LPU	Dec.	-0.4982	1.9206	0.9667	306	181	---	9.5S	138.1W	13	01	3263	B.C.E.	
01723	Nov	04	23:40:54	0529920	4867414	-3263	Nov	05	22:39:47	082733	LNT	Asc.	1.0275	1.0258	-0.0792	288	---	---	8.1N	3.7E	14	07	3263	B.C.E.	
01724	Apr	01	19:30:30	0530068	3128455	-3262	Apr	02	18:28:48	082699	LNN	Dec.	1.2692	0.5042	-0.4462	183	---	---	7.3N	71.0E	15	12	3262	B.C.E.	
01725	May	01	02:11:13	0530097	5911180	-3262	May	02	01:09:32	082699	LNN	Dec.	-1.2196	0.5894	-0.3495	194	---	---	6.2S	33.7W	14	01	3262	B.C.E.	
01726	Sep	25	05:03:46	0530244	7109458	-3262	Sep	26	04:02:05	082699	LNN	Asc.	-1.3129	0.4832	-0.5845	201	---	---	10.5S	74.1W	13	06	3262	B.C.E.	
01727	Mar	21	09:35:16	0530422	8994883	-3261	Mar	22	08:33:00	082666	LPU	Dec.	0.5589	1.8313	0.8337	318	185	---	10.5N	139.5W	14	12	3261	B.C.E.	
01728	Sep	13	13:07:58	0530599	0471945	-3261	Sep	14	12:05:45	082666	LPU	Asc.	-0.5593	1.8358	0.8278	314	182	---	13.9S	164.8E	13	06	3261	B.C.E.	
01729	Mar	10	16:48:23	0530777	2002715	-3260	Mar	11	15:45:35	082633	LPU	Dec.	-0.2099	2.4998	1.4466	362	227	093	13.6N	112.6E	15	12	3260	B.C.E.	
01730	Sep	03	03:19:55	0530953	6388330	-3260	Sep	04	02:17:10	082634	LPU	Asc.	0.1453	2.5750	1.6074	319	205	094	16.7S	48.5W	15	05	3260	B.C.E.	
01731	Feb	27	17:52:04	0531131	2444880	-3259	Feb	28	16:48:44	082600	LPU	Dec.	-0.9700	1.1175	0.0398	297	049	---	16.4N	96.8E	14	11	3259	B.C.E.	
01732	Aug	23	19:23:44	0531308	3081429	-3259	Aug	24	18:20:23	082600	LPU	Asc.	0.8320	1.3166	0.3461	272	117	---	19.0S	70.0E	14	10	3259	B.C.E.	
01733	Jan	18	05:31:48	0531453	7304221	-3258	Jan	19	04:27:56	082567	LNN	Dec.	1.1540	0.7582	-0.2766	238	---	---	25.1N	79.7W	13	05	3258	B.C.E.	
01734	Jul	14	20:19:13	0531633	3466807	-3258	Jul	15	19:15:20	082567	LNN	Asc.	-1.1550	0.7555	-0.2775	239	---	---	25.0S	53.4E	15	04	3258	B.C.E.	
01735	Jan	07	16:34:45	0531810	1908000	-3257	Jan	08	15:30:20	082534	LPU	Dec.	0.3935	2.1282	1.1438	318	196	055	24.2N	113.3E	13	10	3257	B.C.E.	
01736	Jul	02	23:50:25	0531987	4933425	-3257	Jul	03	22:45:58	082534	LPU	Asc.	-0.4383	2.0905	0.1079	359	211	022	23.4S	0.2W	14	03	3257	B.C.E.	
01737	Dec	27	08:04:24	0532164	8363944	-3257	Dec	28	06:59:58	082534	LPU	Dec.	-0.2988	2.2919	1.3274	313	197	077	22.5N	120.2W	13	09	3257	B.C.E.	
01738	Jun	22	00:10:07	0532341	5070247	-3256	Jun	22	23:05:08	082500	LPU	Asc.	0.3096	2.3236	1.2571	364	223	077	21.0S	5.6W	14	03	3256	B.C.E.	
01739	Dec	16	23:26:30	0532695	6958614	-3255	Dec	17	22:21:30	082500	LPU	Dec.	-0.9928	1.0312	0.0413	253	039	---	20.0N	8.5E	14	09	3256	B.C.E.	
01740	Jun	11	04:42:02	0532849	6958614	-3255	Jun	12	03:36:31	082467	LNN	Asc.	1.0468	0.9466	-0.1717	260	---	---	17.8S	73.5W	13	02	3255	B.C.E.	
01741	Nov	06	17:49:52	0532844	2429615	-3255	Nov	07	16:44:19	082467	LNN	Dec.	1.1710	0.7998	-0.3000	246	---	---	9.1N	91.6E	15	07	3255	B.C.E.	
01742	May	02	09:21:49	0533020	8901515	-3254	May	03	08:15:44	082434	LPU	Asc.	-0.7968	1.3684	0.4232	274	124	---	6.4S	141.2W	13	01	3254	B.C.E.	
01743	Oct	26	17:57:07	0533198	2479949	-3254	Oct	27	16:51:01	082434	LPU	Dec.	0.5207	1.9573	0.8491	359	200	---	3.9N	90.4E	14	07	3254	B.C.E.	
01744	Apr	21	02:42:13	0533375	6126511	-3253	Apr	22	01:35:33	082400	LPU	Asc.	-0.0566	2.7257	1.7822	319	206	099	1.7S	39.8W	14	01	3253	B.C.E.	
01745	Oct	14	17:45:33	0533552	2399690	-3253	Oct	15	16:38:55	082400	LPU	Dec.	-0.1605	2.6056	1.5225	366	228	097	1.3S	94.0E	13	07	3253	B.C.E.	
01746	Apr	10	17:54:09	0533730	2459425	-3252	Apr	11	16:46:57	082368	LPU	Asc.	0.7163	1.5350	0.5524	298	153	---	3.2N	93.7E	15	13	3252	B.C.E.	
01747	Oct	03	23:55:38	0533906	4969731	-3252	Oct	04	22:48:27	082368	LPU	Dec.	-0.8351	1.3384	0.3132	290	123	---	6.5S	2.3E	13	06	3252	B.C.E.	
01748	Mar	01	13:00:08	0534054	6417556	-3251	Mar	02	11:52:22	082335	LNN	Asc.	-1.2646	0.5712	-0.4951	221	---	---	15.6N	169.9E	14	11	3251	B.C.E.	
01749	Mar	31	02:52:23	0534084	6197067	-3251	Apr	01	01:44:37	082335	LNN	Asc.	1.5646	0.0505	-0.9878	067	---	---	8.0N	39.5W	15	12	3251	B.C.E.	
01750	Aug	25	02:51:02	0534231	6187707	-3251	Aug	26	01:43:16	082335	LNN	Dec.	1.1902	0.6548	-0.3068	204	---	---	18.2S	41.7W	14	05	3251	B.C.E.	
01751	Sep	23	12:52:11	0534261	8362433	-3251	Sep	24	11:44:26	082335	LNN	Dec.	-1.4560	0.1749	-0.8021	111	---	---	11.3S	168.7E	13	06	3251	B.C.E.	
01752	Feb	18	13:16:36	0534409	0531925	-3250	Feb	19	12:08:17	082301	LPU	Asc.	-0.5391	1.9079	0.8304	352	198	---	19.2N	166.0E	13	11	3250	B.C.E.	
01753	Aug	14	18:41:14	0534586	2786319	-3250	Aug	15	17:32:54	082301	LPU	Asc.	0.5224	1.8884	0.9104	308	181	---	21.2S	80.3E	15	05	3250	B.C.E.	
01754	Feb	07	16:05:14	0534763	1702974	-3249	Feb	08	14:56:24	082268	LPU	Asc.	0.2123	2.4893	1.4479	353	222	092	22.2N	123.5E	13	11	3249	B.C.E.	
01755	Aug	03	06:27:03	0534940	7687879	-3249	Aug	04	05:18:09	082268	LPU	Dec.	-0.2024	2.5001	1.4734	346	220	092	23.5S	96.9W	15	04	3249	B.C.E.	
01756	Jul	23	01:55:23	0535117	5801294	-3248	Jul	24	00:45:59	082235	LPU	Asc.	0.9248	1.1556	0.1666	267	087	---	24.3N	24.8W	13	10	3248	B.C.E.	
01757	Jul	23	11:10:43	0535294	9657762	-3248	Jul	24	10:01:18	082235	LPU	Dec.	-0.9699	1.1149	0.0424	293	050	---	24.9S	168.8W	14	04	3248	B.C.E.	
01758	Dec	18	07:29:59	0535469	8124924	-3248	Dec	19	06:20:34	082235	LNN	Asc.	-1.0463	0.9224	-0.0461	236	---	---	20.2N	112.0W	14	09	3248	B.C.E.	
01759	Jun	12	20:18:52	0535619	3464351	-3247	Jun	13	19:08:54	082202	LNN	Dec.	-1.1963	0.7583	-0.2960	248	---	---	18.2S						

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Month	Day	Hour	Minute	Month	Day							Hour	Minute	Pen.	Par.	Lat.	Lon.	Day	Month	Year				
181820	Jan	29	32:21	B.C.E.	09:09:39	0544980.8816969	-3221	Jan	30	07:45:23	081343	LTU	Dec.	0.4516	2.0159	1.0426	312	189	031	23.7N	133.2W	13	10	3221	B.C.E.
181821	Jul	24	32:21	B.C.E.	13:49:34	0545358.0760901	-3221	Jul	25	12:25:17	081343	LPU	Asc.	-0.5593	1.8731	0.7913	351	194	---	24.5S	151.8E	14	04	3221	B.C.E.
181822	Jan	18	32:20	B.C.E.	01:12:13	0545335.5501478	-3220	Jan	18	23:47:22	081310	LPU	Dec.	-0.2532	2.3728	1.4139	314	200	084	23.7N	14.9W	14	10	3220	B.C.E.
181823	Jul	13	32:20	B.C.E.	13:59:33	0545512.0830175	-3220	Jul	14	12:34:44	081310	LPU	Asc.	0.1755	2.5707	1.5019	368	230	097	23.7S	148.2E	13	04	3220	B.C.E.
181824	Jan	07	32:19	B.C.E.	16:34:39	0545690.1907251	-3219	Jan	08	15:09:15	081277	LPU	Dec.	-0.9674	1.0776	0.0882	259	061	---	22.9N	113.4E	15	10	3219	B.C.E.
181825	Jul	02	32:19	B.C.E.	19:10:07	0545866.2986970	-3219	Jul	03	17:44:45	081277	LPU	Asc.	0.9087	1.1989	0.1827	283	097	---	22.1S	69.9E	13	03	3219	B.C.E.
181826	Nov	28	32:19	B.C.E.	10:30:49	0546014.9380712	-3219	Nov	29	09:05:25	081277	LNN	Dec.	1.1763	0.7414	-0.3413	246	---	---	17.0N	158.8W	14	08	3219	B.C.E.
181827	May	24	32:18	B.C.E.	00:21:42	0546191.5150740	-3218	May	24	22:55:47	081244	LPU	Asc.	-0.9392	1.1062	0.1627	253	069	---	14.4S	8.1W	14	02	3218	B.C.E.
181828	Nov	17	32:18	B.C.E.	10:32:03	0546368.9287163	-3218	Nov	18	08:51:25	081244	LPU	Dec.	-0.5208	1.9567	0.8493	359	200	---	12.6N	155.4W	13	08	3218	B.C.E.
181829	May	12	32:17	B.C.E.	17:39:01	0546546.2354226	-3217	May	13	16:12:31	081211	LPU	Asc.	-0.2064	2.4525	1.5058	317	203	090	10.0S	93.6E	15	01	3217	B.C.E.
181830	Nov	05	32:17	B.C.E.	10:32:03	0546722.9389264	-3217	Nov	06	09:05:36	081211	LPU	Dec.	-0.1637	2.5974	1.5187	364	227	096	7.7N	158.6W	13	07	3217	B.C.E.
181831	May	02	32:16	B.C.E.	08:15:33	0546900.8441356	-3216	May	03	06:48:30	081178	LPU	Asc.	0.5682	1.8097	0.8211	315	182	---	5.4S	124.2W	14	01	3216	B.C.E.
181832	Oct	25	32:16	B.C.E.	17:25:54	0547077.2263198	-3216	Oct	26	15:58:53	081178	LPU	Dec.	-0.8346	1.3373	0.3163	288	123	---	2.6N	98.6E	13	07	3216	B.C.E.
181833	Mar	23	32:15	B.C.E.	02:31:39	0547225.6053166	-3215	Mar	24	01:04:05	081145	LNN	Asc.	-1.4111	0.3016	-0.7631	165	---	---	8.3N	34.4W	14	12	3215	B.C.E.
181834	Apr	21	32:15	B.C.E.	16:18:41	0547255.1796360	-3215	Apr	22	14:51:06	081146	LNN	Asc.	-1.3919	0.3254	-0.7168	168	---	---	0.5S	116.5E	15	01	3215	B.C.E.
181835	Sep	15	32:15	B.C.E.	20:15:27	0547402.3440639	-3215	Sep	16	18:47:53	081146	LNN	Dec.	1.2190	0.6047	-0.3621	197	---	---	11.5S	57.3E	14	06	3215	B.C.E.
181836	Oct	15	32:15	B.C.E.	06:46:05	0547456.9809018	-3215	Oct	16	05:18:32	081146	LNN	Dec.	-1.4498	0.1863	-0.7910	115	---	---	2.5S	100.7W	13	07	3215	B.C.E.
181837	Mar	12	32:14	B.C.E.	02:57:47	0547579.6234662	-3214	Mar	13	01:29:41	081113	LPU	Asc.	-0.6716	1.6602	0.5917	337	173	---	12.8N	39.9W	14	12	3214	B.C.E.
181838	Sep	05	32:14	B.C.E.	11:32:30	0547756.9809018	-3214	Sep	06	10:04:22	081113	LPU	Dec.	0.5693	1.8078	0.8190	306	170	---	15.7S	171.7W	14	05	3214	B.C.E.
181839	Feb	29	32:13	B.C.E.	06:50:29	0547933.7850574	-3213	Mar	01	05:21:51	081080	LPU	Asc.	0.1020	2.6849	1.6570	352	225	101	16.9N	97.4W	13	11	3213	B.C.E.
181840	Aug	24	32:13	B.C.E.	22:15:54	0548111.4277089	-3213	Aug	25	20:47:12	081080	LPU	Dec.	-0.1396	2.6223	1.5820	351	223	098	19.4S	27.3E	15	05	3213	B.C.E.
181841	Feb	17	32:12	B.C.E.	17:48:38	0548288.2421028	-3212	Feb	18	16:19:25	081047	LPU	Asc.	0.8332	1.3175	0.3406	278	120	---	20.5N	98.2E	13	11	3212	B.C.E.
181842	Aug	14	32:12	B.C.E.	01:51:31	0548465.5774445	-3212	Aug	15	00:22:18	081047	LPU	Dec.	-0.8838	1.2786	0.1950	310	106	---	22.5S	127.1W	14	05	3212	B.C.E.
181843	Jan	09	32:11	B.C.E.	00:50:58	0548613.5353957	-3211	Jan	09	23:21:12	081014	LNN	Asc.	-1.0836	0.8521	-0.1128	229	---	---	22.8N	10.4W	14	10	3211	B.C.E.
181844	Feb	07	32:11	B.C.E.	09:38:29	0548642.9017219	-3211	Feb	08	08:08:43	081014	LNN	Asc.	1.5006	0.8007	-0.8720	075	---	---	23.4N	139.7W	13	11	3211	B.C.E.
181845	Jul	04	32:11	B.C.E.	10:06:39	0548899.9212865	-3211	Jul	05	08:36:54	081014	LNN	Dec.	1.2943	0.5104	-0.5437	207	---	---	22.0S	153.9W	13	03	3211	B.C.E.
181846	Dec	29	32:11	B.C.E.	15:04:07	0548968.1278633	-3211	Dec	30	13:34:20	081014	LPU	Asc.	-0.4176	2.0953	1.0885	325	199	045	22.7N	135.2E	15	09	3211	B.C.E.
181847	Jun	23	32:10	B.C.E.	17:28:44	0549144.2282854	-3210	Jun	24	15:58:26	080981	LPU	Dec.	0.4882	1.9610	0.9633	323	194	---	21.1S	95.0E	13	03	3210	B.C.E.
181848	Dec	18	32:10	B.C.E.	23:04:09	0549322.4612190	-3210	Dec	19	21:33:48	080981	LPU	Asc.	0.3003	2.3408	1.2739	356	218	077	21.6N	14.0E	15	09	3210	B.C.E.
181849	Jun	12	32:09	B.C.E.	07:38:05	0549498.8181161	-3209	Jun	13	06:07:14	080948	LPU	Dec.	-0.2758	2.3275	1.3760	316	200	082	19.5S	117.8W	13	03	3209	B.C.E.
181850	Dec	07	32:09	B.C.E.	00:01:56	0549676.5013450	-3209	Dec	07	22:31:04	080948	LNT	Asc.	1.0120	1.0533	-0.0499	292	---	---	19.5N	1.4W	14	09	3209	B.C.E.
181851	Aug	03	32:08	B.C.E.	17:52:46	0549824.2449751	-3208	Aug	04	16:21:21	080915	LNN	Dec.	1.4977	0.0871	-0.8677	080	---	---	5.1S	91.9E	15	01	3208	B.C.E.
181852	Jun	02	32:08	B.C.E.	00:47:33	0549853.5330261	-3208	Jun	02	23:16:09	080915	LNN	Dec.	-1.0031	0.9891	0.0454	242	046	---	17.4S	15.2W	14	02	3208	B.C.E.
181853	Oct	27	32:08	B.C.E.	06:20:46	0550000.7644203	-3208	Oct	28	04:49:22	080916	LNN	Asc.	-1.3117	0.4829	-0.5797	199	---	---	3.0N	94.9W	13	07	3208	B.C.E.
181854	Apr	23	32:07	B.C.E.	06:58:02	0550178.7930008	-3207	Apr	24	05:26:04	080883	LPU	Dec.	0.7974	1.3973	0.3927	297	138	---	1.7S	103.6W	15	01	3207	B.C.E.
181855	Oct	16	32:07	B.C.E.	15:22:40	0550353.1047330	-3207	Oct	17	13:50:44	080883	LPU	Dec.	-0.5687	1.8169	0.8122	310	179	---	1.0S	129.9E	12	07	3207	B.C.E.
181856	Apr	12	32:06	B.C.E.	12:56:38	0550535.4393300	-3206	Apr	13	11:24:07	080850	LPU	Dec.	0.0319	2.8273	1.7723	368	234	106	1.9N	167.7E	14	13	3206	B.C.E.
181857	Oct	06	32:06	B.C.E.	05:52:28	0550709.7447651	-3206	Oct	07	04:19:58	080850	LPU	Asc.	0.1162	2.6305	1.6588	319	206	095	4.8S	87.4W	13	06	3206	B.C.E.
181858	Mar	31	32:05	B.C.E.	13:46:40	0550887.0740731	-3205	Apr	01	12:13:37	080817	LPU	Dec.	-0.7368	1.5406	0.4721	331	158	---	5.6N	156.1E	13	12	3205	B.C.E.
181859	Sep	24	32:05	B.C.E.	21:24:28	0551064.3919915	-3205	Sep	25	19:51:25	080817	LPU	Asc.	0.7924	1.3958	0.4121	280	131	---	8.4S	39.7E	14	06	3205	B.C.E.
181860	Feb	19	32:04	B.C.E.	04:37:27	0551121.6926736	-3204	Feb	20	03:03:51	080784	LNN	Dec.	1.2717	0.5318	-0.4823	201	---	---	20.5N	63.7W	13	11	3204	B.C.E.
181861	Mar	20	32:04	B.C.E.	16:33:38	0551241.1900280	-3204	Mar	21	15:00:03	080784	LNN	Dec.	-1.4575	0.2012	-0.8335	131	---	---	9.0N	115.1E	14	12	3204	B.C.E.
181862	Aug	15	32:04	B.C.E.	19:03:25	0551389.2940366	-3204	Aug	16	17:29:49	080784	LNN	Asc.	-1.2945	0.5097	-0.5436	204	---	---	22.5S	75.3E	15	05	3204	B.C.E.
181863	Sep	14	32:04	B.C.E.	09:19:39	0551418.8886508	-3204	Sep	15	07:46:03	080784	LNN	Asc.	1.5382	0.0517	-0.9801	066	---	---	11.7S	139.1W	14	06	3204	B.C.E.
181864	Feb	08	32:03	B.C.E.	17:15:33	0551566.2191349	-3203	Feb	09	15:41:25</															

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar				
										Pen.	Par.	Lat.	Lon.	Day	Month	Year		
01927	Apr 02 3178 B.C.E.	16:14:55	0560750.1770289	-3178	Apr 03	14:27:08	079932	LPU	Asc.	-0.8241	1.3764	0.3159	316	132	---	4.8N	118.9E	14 12 3178 B.C.E.
01928	Sep 27 3178 B.C.E.	04:51:43	0560927.7025760	-3178	Sep 28	03:03:54	079932	LPU	Dec.	0.5901	1.7746	0.7759	307	175	---	7.9S	71.9W	14 06 3178 B.C.E.
01929	Mar 21 3177 B.C.E.	21:11:45	0561104.3831542	-3177	Mar 22	19:23:29	079901	LTU	Asc.	-0.0316	2.8079	1.7923	349	225	103	9.6N	46.0E	13 12 3177 B.C.E.
01930	Sep 15 3177 B.C.E.	14:34:29	0561282.1072795	-3177	Sep 16	12:46:07	079901	LTU	Dec.	-0.1055	2.6912	1.6383	355	225	100	12.6S	142.9E	14 06 3177 B.C.E.
01931	Mar 11 3176 B.C.E.	09:15:34	0561458.8858117	-3176	Mar 12	07:26:43	079868	LPU	Asc.	0.7175	1.5243	0.5583	289	148	---	14.1N	134.0W	13 12 3176 B.C.E.
01932	Sep 04 3176 B.C.E.	17:07:35	0561636.2135972	-3176	Sep 05	15:18:43	079868	LPU	Dec.	-0.8283	1.3853	0.2918	321	128	---	16.9S	104.8E	15 05 3176 B.C.E.
01933	Jan 30 3175 B.C.E.	17:37:04	0561784.2340724	-3175	Jan 31	15:47:39	079835	LNN	Asc.	-1.1476	0.7327	-0.2285	215	---	---	21.8N	100.0E	15 10 3175 B.C.E.
01934	Mar 01 3175 B.C.E.	01:40:46	0561813.5699740	-3175	Mar 01	23:51:21	079835	LNN	Asc.	1.4063	0.2508	-0.6958	131	---	---	18.1N	19.7W	14 11 3175 B.C.E.
01935	Jul 26 3175 B.C.E.	00:34:21	0561960.5238495	-3175	Jul 26	22:44:56	079835	LNN	Dec.	1.3984	0.3200	-0.7350	166	---	---	22.6S	9.3W	13 04 3175 B.C.E.
01936	Aug 24 3175 B.C.E.	16:35:12	0561990.9110558	-3175	Aug 25	14:45:46	079835	LNN	Dec.	-1.5090	0.1326	-0.9533	112	---	---	20.7S	112.6E	13 05 3175 B.C.E.
01937	Jan 20 3174 B.C.E.	07:38:52	0562138.8186525	-3174	Jan 21	05:48:52	079802	LPU	Asc.	-0.4697	1.9997	0.9929	323	195	---	23.4N	111.3W	14 10 3174 B.C.E.
01938	Jul 15 3174 B.C.E.	08:35:37	0562314.8580705	-3174	Jul 16	06:45:41	079802	LPU	Dec.	0.6025	1.7507	0.7542	311	176	---	23.4S	130.6W	13 04 3174 B.C.E.
01939	Jan 09 3173 B.C.E.	15:05:13	0562493.1286201	-3173	Jan 10	13:14:41	079770	LTU	Asc.	0.2620	2.4145	1.3481	360	222	085	24.2N	135.9E	15 10 3173 B.C.E.
01940	Jul 03 3173 B.C.E.	23:07:47	0562669.4637390	-3173	Jul 04	21:17:18	079770	LTU	Dec.	-0.1497	2.5596	1.6068	318	205	095	23.3S	10.5E	14 03 3173 B.C.E.
01941	Dec 28 3173 B.C.E.	15:46:08	0562847.1570403	-3173	Dec 29	13:55:38	079770	LPU	Asc.	0.9785	1.1122	0.0138	298	029	---	23.9N	124.3E	14 09 3173 B.C.E.
01942	Jun 23 3172 B.C.E.	16:06:29	0563024.1711707	-3172	Jun 24	14:15:26	079737	LPU	Dec.	-0.8723	1.2324	0.2823	264	101	---	22.5S	115.1E	14 03 3172 B.C.E.
01943	Nov 17 3172 B.C.E.	23:25:34	0563171.4760878	-3172	Nov 18	21:34:31	079737	LNN	Asc.	-1.3041	0.4933	-0.5623	199	---	---	11.5N	8.2E	13 08 3172 B.C.E.
01944	May 14 3171 B.C.E.	20:53:40	0563349.3705961	-3171	May 15	19:02:03	079704	LPU	Dec.	0.9665	1.0907	0.0786	274	065	---	9.7S	45.3E	15 01 3171 B.C.E.
01945	Nov 07 3171 B.C.E.	09:11:15	0563526.8828118	-3171	Nov 08	07:19:40	079704	LPU	Dec.	-0.5636	1.8240	0.8239	309	179	---	8.0N	138.3W	13 07 3171 B.C.E.
01946	Apr 04 3170 B.C.E.	01:57:34	0563703.5816383	-3170	Apr 05	00:05:24	079672	LTU	Dec.	0.2099	2.5024	1.4441	367	229	094	6.4S	30.0W	14 01 3170 B.C.E.
01947	Oct 27 3170 B.C.E.	23:57:10	0563880.4980282	-3170	Oct 28	22:05:02	079672	LTU	Asc.	0.1151	2.6331	1.6605	319	206	095	4.3N	0.3E	14 07 3170 B.C.E.
01948	Apr 22 3169 B.C.E.	02:40:15	0564057.6112893	-3169	Apr 23	00:47:36	079640	LPU	Dec.	-0.5596	1.8635	0.7996	349	195	---	2.7S	39.7W	14 01 3169 B.C.E.
01949	Oct 16 3169 B.C.E.	15:11:31	0564233.1330009	-3169	Oct 17	13:18:51	079640	LPU	Asc.	0.7902	1.4035	0.4127	282	133	---	0.5N	131.9E	14 07 3169 B.C.E.
01950	Mar 12 3168 B.C.E.	19:27:48	0564382.3109713	-3168	Mar 13	17:34:35	079607	LNN	Dec.	1.3816	0.3236	-0.6776	158	---	---	14.1N	73.3E	13 12 3168 B.C.E.
01951	Apr 11 3168 B.C.E.	06:21:07	0564411.7646682	-3168	Apr 12	04:27:55	079607	LNN	Dec.	-1.2961	0.4922	-0.5322	198	---	---	1.0N	94.0W	13 13 3168 B.C.E.
01952	Sep 06 3168 B.C.E.	10:51:43	0564559.9525794	-3168	Sep 07	08:58:30	079607	LNN	Asc.	-1.3525	0.4097	-0.6563	186	---	---	16.8S	160.9W	14 05 3168 B.C.E.
01953	Oct 06 3168 B.C.E.	02:17:00	0564589.9551338	-3168	Oct 07	00:23:46	079607	LNN	Asc.	1.5324	0.0679	-0.9747	076	---	---	3.4S	34.2W	14 06 3168 B.C.E.
01954	Mar 02 3167 B.C.E.	09:04:23	0564736.8780496	-3167	Mar 03	07:10:38	079574	LPU	Dec.	0.5925	1.7496	0.7917	298	168	---	16.8N	130.7W	13 11 3167 B.C.E.
01955	Aug 26 3167 B.C.E.	11:55:36	0564913.9969474	-3167	Aug 27	10:01:50	079574	LPU	Asc.	-0.6846	1.6499	0.5548	341	170	---	19.5S	177.4W	14 05 3167 B.C.E.
01956	Feb 20 3166 B.C.E.	01:49:54	0565091.5763166	-3166	Feb 20	23:55:34	079541	LTU	Dec.	-0.1311	2.5930	1.6415	317	204	095	19.0N	22.3W	14 11 3166 B.C.E.
01957	Aug 15 3166 B.C.E.	12:00:33	0565268.0003776	-3166	Aug 16	10:06:15	079541	LPU	Asc.	0.0302	2.8392	1.7666	369	232	104	21.4S	179.4W	13 05 3166 B.C.E.
01958	Feb 09 3165 B.C.E.	17:05:16	0565446.2119923	-3165	Feb 10	15:10:25	079509	LPU	Dec.	-0.8754	1.2459	0.2575	275	108	---	20.7N	108.3E	15 11 3165 B.C.E.
01959	Aug 03 3165 B.C.E.	18:04:50	0565622.2533536	-3165	Aug 04	16:10:20	079509	LPU	Asc.	0.7505	1.4887	0.4734	302	148	---	22.4S	88.6E	13 04 3165 B.C.E.
01960	Dec 30 3165 B.C.E.	10:45:04	0565770.9479597	-3165	Dec 31	08:50:13	079509	LNN	Dec.	1.2185	0.6637	-0.4184	236	---	---	24.4N	160.0W	14 09 3165 B.C.E.
01961	Jun 24 3164 B.C.E.	23:18:58	0565947.4715058	-3164	Jun 25	21:23:34	079476	LNN	Asc.	-1.1326	0.7524	-0.1933	216	---	---	23.0S	7.2E	14 03 3164 B.C.E.
01962	Jul 24 3164 B.C.E.	07:13:46	0565976.8012289	-3164	Jul 25	05:18:22	079476	LNN	Asc.	1.4175	0.2391	-0.7250	130	---	---	22.5S	109.6W	13 04 3164 B.C.E.
01963	Dec 19 3164 B.C.E.	10:21:45	0566124.9317654	-3164	Dec 20	08:26:21	079476	LPU	Dec.	0.5432	1.9117	0.8118	355	196	---	22.0N	155.3W	13 09 3164 B.C.E.
01964	Jun 14 3163 B.C.E.	16:12:38	0566302.1753282	-3163	Jun 15	14:16:30	079443	LTU	Asc.	-0.4209	2.0637	1.1073	311	190	048	20.2S	113.7E	14 03 3163 B.C.E.
01965	Dec 08 3163 B.C.E.	11:37:18	0566478.9842418	-3163	Dec 09	09:41:25	079444	LPU	Dec.	-0.1589	2.5998	1.5336	360	225	097	18.9N	174.8W	13 09 3163 B.C.E.
01966	Jun 04 3162 B.C.E.	05:36:45	0566656.7338507	-3162	Jun 05	03:40:15	079412	LTU	Asc.	0.3438	2.2283	1.2261	335	210	070	16.7S	87.1E	15 02 3162 B.C.E.
01967	Nov 27 3162 B.C.E.	19:50:40	0566833.3288551	-3162	Nov 28	17:54:13	079412	LPU	Dec.	-0.8362	1.2289	0.3186	284	122	---	15.0N	61.6W	13 08 3162 B.C.E.
01968	Oct 23 3161 B.C.E.	12:06:56	0567101.0048177	-3161	Oct 24	10:09:55	079379	LNN	Asc.	1.1546	0.7656	-0.2861	249	---	---	12.6S	176.1E	14 02 3161 B.C.E.
01969	May 17 3161 B.C.E.	23:06:27	0567158.4628143	-3161	May 18	21:09:26	079379	LNN	Dec.	1.2269	0.5930	-0.3795	196	---	---	1.6N	13.1E	14 07 3161 B.C.E.
01970	Nov 16 3161 B.C.E.	09:53:39	0567187.5122592	-3161	Nov 17	07:56:38	079379	LNN	Dec.	-1.4540	0.1771	-0.7970	111	---	---	10.7N	149.0W	13 08 3161 B.C.E.
01971	Apr 12 3160 B.C.E.	22:48:34	0567335.4053987	-3160	Apr 13	20:51:01	079346	LPU	Asc.	-0.9046	1.2269	0.1700	302	099	---	0.6N	19.1E	14 13 3160 B.C.E.
01972	Oct 07 3160 B.C.E.	13:38:47	0567513.0685967	-3160	Oct 08	11:41:12	079346	LPU	Dec.	0.5934	1.7708	0.7677	308	175	---	3.4S	155.8E	14 06 3160 B.C.E.
01973	Apr 02 3159 B.C.E.	04:16:41	0567689.8762505	-3159	Apr 03	02:18:37	079314	LTU	Asc.	-0.1047	2.6710	1.6609	346	223	101	5.5N	61.3W	13 12 3159 B.C.E.
01974	Sep 26 3159 B.C.E.	22:53:55	0567867.4541042	-3159	Sep 27	20:55:46	079314	LTU	Dec.	-0.0984	2.7070	1.6486	357	226	100	8.5S	177.7E	15 06 3159 B.C.E.
01975	Mar 22 3158 B.C.E.	16:49:36	0568044.2011090	-3158	Mar 23	14:50:57	079281	LPU	Asc.	0.6509	1.6443	0.6830	295	160	---	10.2N	11.1E	14 12 3158 B.C.E.
01976	Sep 16 3158 B.C.E.	00:59:13	0568221.5411209	-3158	Sep 16	23:00:33	079281	LPU	Dec.	-0.8123	1.4168	0.3190	324	133	---	13.3S	13.2W	14 06 3158 B.C.E.
01977	Feb 11 3157 B.C.E.	01:46:27	0568393.5739224	-3157	Feb 11	23:47:15	079248	LNN	Asc.	-1.1902	0.6538	-0.3058	205	---	---	20.0N	21.8W	14 11 3157 B.C.E.
01978	Mar 11 3157 B.C.E.	09:30:51	0568398.8964205	-3157	Mar 12	07:31:38	079248	LNN	Asc.	1.3505	0.3521	-0.5923						

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Month	Day	Month	Day	(TD)	(TT)		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	(minutes)	Lat.	Lon.	Day	Month	Year						
02034	Nov	29	13:35	B.C.E.	02:59:09	0576696	6244120	-3135	Nov	30	00:48:05	078535	LPU	Asc.	-0.5611	1.8251	0.8318	307	178	---	15.8N	45.5W	13	08	3135	B.C.E.
02035	Nov	29	13:35	B.C.E.	02:59:09	0576696	6244120	-3135	Nov	30	00:48:05	078535	LPU	Asc.	-0.5611	1.8251	0.8318	307	178	---	15.8N	45.5W	13	08	3135	B.C.E.
02036	Nov	18	21:34	B.C.E.	14:53:22	0576874	1203942	-3134	May	12	21:41:44	078503	LTU	Dec.	0.3893	2.1756	1.1123	361	216	054	13.8S	134.3E	14	02	3134	B.C.E.
02037	Nov	13	13:33	B.C.E.	18:04:58	0577051	2534475	-3134	Nov	19	15:53:21	078503	LTU	Asc.	0.1163	2.6304	1.6587	319	206	095	12.9N	87.7E	14	08	3134	B.C.E.
02038	Nov	07	13:33	B.C.E.	09:05:52	0577228	1476026	-3133	May	13	13:20:24	078470	LTU	Dec.	-0.3785	2.1942	1.1333	360	217	058	10.7S	125.0E	13	02	3133	B.C.E.
02039	Nov	07	13:33	B.C.E.	09:05:52	0577405	8790755	-3133	Nov	08	06:53:41	078470	LPU	Asc.	0.7957	1.3959	0.4001	283	132	---	9.5N	137.7W	14	08	3133	B.C.E.
02040	Apr	03	13:32	B.C.E.	09:59:40	0577552	9164382	-3132	Apr	04	07:46:59	078439	LNN	Dec.	1.5101	0.0822	-0.9077	081	---	---	6.2N	146.5W	13	13	3132	B.C.E.
02041	May	02	13:32	B.C.E.	20:05:12	0577582	3369411	-3132	May	03	17:52:31	078439	LNN	Dec.	-1.1254	0.8012	-0.2148	243	---	---	7.3S	57.6E	13	01	3132	B.C.E.
02042	Sep	28	13:32	B.C.E.	03:08:16	0577730	6307443	-3132	Sep	29	00:55:35	078439	LNN	Asc.	-1.3853	0.3550	-0.7218	176	---	---	8.9S	45.4W	14	06	3132	B.C.E.
02043	Oct	27	13:32	B.C.E.	19:27:49	0577760	3109798	-3132	Oct	28	17:15:08	078439	LNN	Asc.	1.5396	0.0588	-0.9921	071	---	---	5.7N	66.9E	15	07	3132	B.C.E.
02044	Mar	24	13:31	B.C.E.	00:28:40	0577907	5199063	-3131	Mar	24	22:15:27	078406	LPU	Dec.	0.7172	1.5166	0.5670	284	144	---	9.6N	3.0W	14	12	3131	B.C.E.
02045	Sep	17	13:31	B.C.E.	03:25:35	0578084	6427688	-3131	Sep	18	01:12:21	078406	LPU	Asc.	-0.7309	1.5684	0.4665	336	158	---	12.6S	49.7W	14	06	3131	B.C.E.
02046	Mar	13	13:30	B.C.E.	17:34:19	0578262	2321648	-3130	Mar	14	15:20:31	078374	LTU	Dec.	-0.0155	2.8037	1.8552	319	206	099	12.6N	101.0E	15	12	3130	B.C.E.
02047	Sep	06	13:30	B.C.E.	03:36:24	0578438	6502825	-3130	Sep	07	01:22:42	078374	LTU	Asc.	-0.0262	2.8475	1.7731	367	231	104	15.8S	52.6W	13	05	3130	B.C.E.
02048	Mar	02	13:29	B.C.E.	08:35:58	0578616	8583110	-3129	Mar	03	06:21:38	078341	LPU	Dec.	-0.7762	1.4282	0.4394	291	139	---	15.4N	124.2W	14	11	3129	B.C.E.
02049	Aug	25	13:28	B.C.E.	10:14:14	0578792	9945479	-3129	Aug	26	07:59:56	078341	LPU	Asc.	0.6825	1.6134	0.5982	307	169	---	18.4S	152.6W	13	05	3129	B.C.E.
02050	Jan	21	13:28	B.C.E.	02:08:45	0578941	5894051	-3128	Jan	21	23:53:53	078309	LNN	Dec.	1.2814	0.5468	-0.5324	218	---	---	25.0N	28.5W	14	10	3128	B.C.E.
02051	Jul	16	13:28	B.C.E.	05:08:16	0579118	1307388	-3128	Jul	17	12:53:25	078309	LNN	Asc.	-1.2181	0.5611	-0.3889	190	---	---	25.3S	131.5E	13	04	3128	B.C.E.
02052	Jan	10	13:28	B.C.E.	23:41:38	0579147	4872495	-3128	Jan	10	23:26:47	078309	LNN	Asc.	1.3395	0.3835	-0.5833	162	---	---	20.1S	4.9E	13	05	3128	B.C.E.
02053	Jul	06	13:27	B.C.E.	07:35:03	0579472	8160013	-3127	Jul	07	05:19:38	078276	LPU	Asc.	-0.5450	1.8408	0.8751	304	177	---	24.0S	116.1W	14	03	3127	B.C.E.
02054	Dec	30	13:26	B.C.E.	03:59:48	0579649	6665283	-3127	Dec	31	01:44:27	078276	LTU	Dec.	-0.1528	2.6419	1.5872	357	225	099	23.1N	58.8W	13	09	3127	B.C.E.
02055	Jun	25	13:26	B.C.E.	20:00:12	0579827	3334734	-3126	Jun	26	17:44:14	078244	LTU	Asc.	0.2059	2.4873	1.4735	344	220	092	21.8S	57.1E	15	03	3126	B.C.E.
02056	Dec	19	13:25	B.C.E.	13:13:59	0580004	5137666	-3126	Dec	20	10:58:04	078244	LPU	Dec.	-0.8220	1.3500	0.3495	283	127	---	20.7N	161.8E	13	09	3126	B.C.E.
02057	Jun	14	13:25	B.C.E.	01:24:11	0580181	5584652	-3125	Jun	14	23:07:43	078212	LNT	Asc.	1.0009	1.0519	-0.0081	285	---	---	18.9S	24.0W	14	03	3125	B.C.E.
02058	Nov	08	13:25	B.C.E.	17:13:51	0580329	2179532	-3125	Nov	09	14:57:24	078213	LNN	Dec.	1.2220	0.6029	-0.0071	197	---	---	10.5N	100.3E	14	08	3125	B.C.E.
02059	Dec	08	13:25	B.C.E.	03:50:25	0580508	6600160	-3125	Dec	09	01:33:59	078213	LNN	Dec.	-1.4500	0.1822	-0.7876	113	---	---	17.6N	57.9W	13	09	3125	B.C.E.
02060	May	04	13:24	B.C.E.	07:21:47	0580505	9945821	-3124	May	05	09:35:12	078180	LNN	Asc.	-1.0694	0.9215	-0.1295	269	---	---	7.9S	179.1W	14	01	3124	B.C.E.
02061	Oct	29	13:24	B.C.E.	07:21:47	0580683	8067968	-3124	Oct	30	05:04:46	078180	LPU	Dec.	0.5907	1.7794	0.7692	311	176	---	5.6N	111.1W	14	07	3124	B.C.E.
02062	Apr	23	13:23	B.C.E.	18:21:37	0580860	2651022	-3123	Apr	24	16:04:07	078148	LTU	Asc.	-0.2580	2.3849	1.3843	339	216	086	3.1S	84.9E	13	01	3123	B.C.E.
02063	Oct	18	13:23	B.C.E.	15:43:41	0581038	1553399	-3123	Oct	19	13:26:07	078148	LTU	Dec.	-0.0960	2.7160	1.6484	360	227	101	0.5N	124.1E	15	07	3123	B.C.E.
02064	Apr	13	13:22	B.C.E.	07:49:25	0581214	8259829	-3122	Apr	14	05:31:21	078115	LPU	Asc.	0.5085	1.9017	0.9481	305	180	---	1.8N	115.5W	13	13	3122	B.C.E.
02065	Oct	07	13:22	B.C.E.	17:00:48	0581392	2088874	-3122	Oct	08	14:42:43	078115	LPU	Dec.	-0.7960	1.4500	0.3458	327	138	---	4.7S	100.6E	14	06	3122	B.C.E.
02066	Mar	03	13:21	B.C.E.	17:39:04	0581540	20354678	-3121	Mar	04	15:20:27	078083	LNN	Asc.	-1.2955	0.4595	-0.4979	176	---	---	14.3N	105.6E	15	11	3121	B.C.E.
02067	Apr	02	13:21	B.C.E.	00:53:12	0581593	5369498	-3121	Apr	02	22:34:35	078083	LNN	Asc.	1.2248	0.5812	-0.3602	193	---	---	6.5N	10.1W	14	12	3121	B.C.E.
02068	Aug	26	13:21	B.C.E.	23:38:20	0581766	4849561	-3121	Aug	27	21:19:43	078083	LNN	Asc.	1.4924	0.1482	-0.9082	114	---	---	17.2S	6.5E	13	05	3121	B.C.E.
02069	Sep	25	13:21	B.C.E.	16:18:42	0581746	1796529	-3121	Sep	26	14:00:05	078083	LNN	Dec.	-1.4503	0.2420	-0.8472	149	---	---	9.8S	116.8E	14	06	3121	B.C.E.
02070	Feb	21	13:20	B.C.E.	07:13:38	0581894	8011293	-3120	Feb	22	04:54:27	078051	LPU	Asc.	-0.6037	1.7540	0.7468	316	178	---	18.1N	103.3W	14	11	3120	B.C.E.
02071	Aug	16	13:20	B.C.E.	08:30:36	0582070	8545888	-3120	Aug	17	06:11:29	078051	LPU	Dec.	0.7176	1.5397	0.5430	297	153	---	20.4S	126.9W	13	05	3120	B.C.E.
02072	Feb	10	13:19	B.C.E.	13:47:06	0582249	4743694	-3119	Feb	11	11:27:22	078018	LTU	Asc.	0.1416	2.6304	1.5665	366	230	100	21.3N	158.2E	14	11	3119	B.C.E.
02073	Aug	05	13:19	B.C.E.	23:20:48	0582425	4727754	-3119	Aug	06	21:01:05	078018	LTU	Dec.	-0.0080	2.8224	1.8640	319	207	099	22.9S	9.9E	14	04	3119	B.C.E.
02074	Jan	30	13:18	B.C.E.	14:17:17	0582603	0953366	-3118	Jan	31	11:57:03	077986	LPU	Asc.	0.8762	1.2945	0.2070	314	109	---	23.8N	150.0E	13	10	3118	B.C.E.
02075	Jul	26	13:18	B.C.E.	15:48:22	0582780	1585919	-3118	Jul	27	13:28:08	077986	LPU	Dec.	-0.7161	1.5256	0.5622	286	146	---	24.6S	122.1E	14	04	3118	B.C.E.
02076	Feb	21	13:18	B.C.E.	00:45:12	0582927	5133839	-3118	Feb	22	22:24:58	077986	LNN	Asc.	-1.3114	0.4720	-0.5681	193	---	---	20.6N	10.6W	13	09	3118	B.C.E.
02077	Jan	19	13:17	B.C.E.	15:33:17	0582957	1481133	-3117	Jan	20	13:12:31	077954	LPU	Asc.	1.5511	0.0425	-1.0179	062	---	---	25.4N	129.9E	14	10	3117	B.C.E.
02078	Jan	15	13:17	B.C.E.	17:48:31	0583105	2420269	-3117	Jan	16	15:27:46	077955	LNN	Dec.	1.2082	0.6550	-0.3723	225	---	---	19.1S	90.1E	15	03	3117	B.C.E.
02079	Jul	15	13:17	B.C.E.	05:14:05	0583314	7181093	-3117	Jul	16	02:53:20	077955	LNN	Dec.	-1.4925	0.1226	-0.8835	099	---	---	25.4S	40.4W	15	04	3117	B.C.E.
02080	Dec	09	13:17	B.C.E.	11:47:57	0583281	9916338	-3117	Dec	10	09:27:13	077955	LPU	Asc.	-0.5650	1.8158	0.8266	306	176	---	18.9N	177.3W	13	09	3117	B.C.E.
02081	Jun	04	13:16	B.C.E.	21:24:47	0583459	3922062	-3116	Jun	05	19:03:28	077922	LPU	Dec.	0.4752	0.2196	0.9534	356	207	---	17.0S	37.0E	14	02	3116	B.C.E.
02082	Nov	29	13:16	B.C.E.	03:05:44	0583636	6289861	-3116	Nov	30	00:44:26	077922	LPU	Asc.	0.1143	2.6334	1.6628	319	206	095	16.6N	47.4W	14	08	3116	B.C.E.
02083	May	24	13:15	B.C.E.	22:01:42	0583813	4178521	-3115	May	25	19:39:53</															

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Month	Day	Hour	Minute			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Minutes	Lat.	Lon.	Day	Month	Year					
02141	Mar	13	03:02	36:35	0592141.8170758	-3092	Mar	14	05:02:26	077151	LNN	Dec.	-1.4681	0.1881	-0.8591	129	---	---	11.3N	110.2W	14	12	3092	B.C.E.
02142	Aug	07	03:02	29:46	0592288.8123417	-3092	Aug	08	04:55:37	077151	LNN	Asc.	-1.3189	0.4157	-0.5402	166	---	---	24.0S	101.9W	14	04	3092	B.C.E.
02143	Sep	05	03:02	16:46	0592318.1987402	-3092	Sep	06	14:12:02	077151	LNN	Asc.	1.2892	0.4772	-0.4926	178	---	---	14.5S	109.4E	14	05	3092	B.C.E.
02144	Jan	31	03:01	16:42	0592466.1964829	-3091	Feb	01	14:08:14	077118	LPU	Dec.	0.6648	1.6794	0.5977	340	174	---	23.4N	113.8E	14	10	3091	B.C.E.
02145	Jul	27	03:01	23:21	0592643.4735894	-3091	Jul	28	20:47:15	077118	LPU	Asc.	-0.6468	1.6595	0.6828	298	163	---	24.4S	9.0E	15	04	3091	B.C.E.
02146	Jan	20	03:00	19:54	0592820.3296207	-3090	Jan	21	17:19:28	077086	LTU	Dec.	-0.0792	2.7337	1.6922	354	226	102	23.8N	64.8E	13	10	3090	B.C.E.
02147	Jul	17	03:00	14:43	0592997.9470423	-3090	Jul	18	08:08:28	077086	LTU	Asc.	0.0877	2.7107	1.6839	350	225	101	23.9S	162.5W	14	04	3090	B.C.E.
02148	Jan	10	03:00	06:13	0593174.7592893	-3089	Jan	11	03:37:37	077054	LPU	Dec.	-0.7846	1.4130	0.4235	285	135	---	23.2N	91.1W	13	10	3089	B.C.E.
02149	Jul	05	03:00	14:59	0593352.1244025	-3089	Jul	06	12:23:22	077054	LPU	Asc.	0.8619	1.3117	0.2420	312	117	---	22.6S	132.9E	14	03	3089	B.C.E.
02150	Nov	30	03:00	11:16	0593499.9697798	-3089	Dec	01	08:40:43	077054	LNN	Dec.	1.2217	0.6032	-0.3707	198	---	---	18.2N	170.3W	13	08	3089	B.C.E.
02151	Dec	29	03:00	21:26	0593529.3935517	-3089	Dec	30	18:50:57	077054	LNN	Dec.	-1.4295	0.2170	-0.7471	122	---	---	21.8N	39.5E	14	09	3089	B.C.E.
02152	May	26	03:00	01:03	0593676.5440193	-3088	May	26	22:27:05	077022	LNN	Asc.	-1.2298	0.6253	-0.4216	227	---	---	15.7S	18.7W	13	02	3088	B.C.E.
02153	Nov	20	03:00	10:43	0593854.5440288	-3088	Nov	20	22:27:05	077022	LPU	Dec.	-0.5289	1.7888	0.7737	313	178	---	14.1N	17.1W	14	08	3088	B.C.E.
02154	May	15	03:00	08:30	0594030.8542332	-3087	May	16	05:53:17	076990	LTU	Asc.	-0.4127	2.0974	1.1041	328	202	049	11.3S	129.5W	13	02	3087	B.C.E.
02155	Nov	09	03:00	08:39	0594208.8608709	-3087	Nov	10	06:02:47	076990	LTU	Dec.	-0.1015	2.7090	1.6352	363	228	101	9.4N	130.8W	14	08	3087	B.C.E.
02156	Aug	04	03:00	22:42	0594385.4462967	-3086	Aug	05	20:05:20	076959	LTU	Asc.	0.3580	2.1752	1.2267	312	194	067	6.7S	18.6E	14	01	3086	B.C.E.
02157	Oct	29	03:00	09:19	0594562.8882239	-3086	Oct	30	06:41:41	076959	LPU	Dec.	-0.7938	1.4558	0.3483	329	139	---	4.3N	140.1W	14	07	3086	B.C.E.
02158	Mar	25	03:00	09:01	0594710.8761360	-3085	Mar	26	06:23:45	076927	LNN	Asc.	-1.4227	0.2260	-0.7311	127	---	---	6.7N	132.2W	14	12	3085	B.C.E.
02159	Apr	23	03:00	15:59	0594740.1666492	-3085	Apr	24	13:22:05	076927	LNN	Asc.	1.0869	0.8341	-0.1070	225	---	---	2.0S	120.7E	15	01	3085	B.C.E.
02160	Sep	17	03:00	18:53	0594887.1618485	-3085	Sep	18	13:15:11	076927	LNN	Dec.	1.5165	0.1038	-0.9522	095	---	---	10.1S	122.7E	12	06	3085	B.C.E.
02161	Oct	17	03:00	08:45	0594916.4646316	-3085	Oct	18	06:07:11	076927	LNN	Dec.	-1.4380	0.2639	-0.8242	155	---	---	0.9S	130.8W	13	07	3085	B.C.E.
02162	Mar	04	03:00	22:06	0595065.4210885	-3084	Mar	05	19:27:55	076894	LPU	Asc.	-0.7286	1.5255	0.5168	305	155	---	11.3N	32.7E	15	12	3084	B.C.E.
02163	Sep	07	03:00	01:17	0595241.5538655	-3084	Sep	07	22:39:09	076894	LPU	Dec.	0.7559	1.4696	0.4726	291	144	---	14.5S	18.1W	13	05	3084	B.C.E.
02164	Mar	04	03:00	04:00	0595419.6669360	-3083	Mar	05	01:21:22	076862	LTU	Asc.	0.0229	2.8474	1.7851	369	233	105	15.6N	55.0W	14	11	3083	B.C.E.
02165	Aug	27	03:00	16:13	0595521.7576366	-3083	Aug	28	13:34:09	076862	LTU	Dec.	0.0498	2.7480	1.7850	319	207	098	18.4S	118.0E	13	05	3083	B.C.E.
02166	Feb	21	03:00	04:29	0595773.6869789	-3082	Feb	22	01:49:46	076830	LPU	Asc.	0.7686	1.4877	0.4086	328	149	---	19.4N	62.0W	14	11	3082	B.C.E.
02167	Aug	17	03:00	08:14	0595950.8431653	-3082	Aug	18	05:34:39	076830	LPU	Dec.	-0.6469	1.6577	0.6841	295	161	---	21.6S	122.6W	14	05	3082	B.C.E.
02168	Jan	11	03:00	17:10	0596098.2154975	-3081	Jan	12	14:30:18	076798	LNN	Asc.	-1.3422	0.4091	-0.6183	179	---	---	22.7N	105.0E	13	10	3081	B.C.E.
02169	Feb	10	03:00	06:40	0596127.7779605	-3081	Feb	11	04:00:13	076798	LNN	Asc.	1.4621	0.1991	-0.8480	131	---	---	22.6N	95.0W	13	11	3081	B.C.E.
02170	Jul	07	03:00	08:01	0596275.8347078	-3081	Jul	08	05:21:57	076798	LNN	Dec.	1.3485	0.4037	-0.6358	183	---	---	22.3S	122.5W	14	03	3081	B.C.E.
02171	Aug	05	03:00	20:40	0596305.3617512	-3081	Aug	06	18:00:53	076798	LNN	Dec.	-1.4133	0.2749	-0.7449	148	---	---	24.2S	50.0E	15	04	3081	B.C.E.
02172	Dec	31	03:00	05:10	0596452.7158012	-3080	Jan	01	02:30:12	076766	LPU	Asc.	-0.5868	1.7713	0.7914	301	172	---	22.8N	76.2W	13	09	3081	B.C.E.
02173	Jun	26	03:00	10:39	0596629.4424224	-3080	Jun	27	07:59:08	076766	LPU	Dec.	0.6348	1.7303	0.6570	343	181	---	21.7S	162.6W	14	03	3080	B.C.E.
02174	Dec	20	03:00	20:52	0596807.3700888	-3080	Dec	21	18:12:21	076766	LTU	Asc.	0.0992	2.6594	1.6922	319	206	096	22.0N	47.1E	14	09	3080	B.C.E.
02175	Jun	15	03:00	11:56	0596983.9698482	-3079	Jun	16	08:35:30	076734	LTU	Dec.	-0.1229	2.6626	1.6033	368	232	102	20.2S	172.3W	13	03	3079	B.C.E.
02176	Dec	10	03:00	11:41	0597161.9869283	-3079	Dec	11	09:00:05	076735	LPU	Asc.	0.7966	1.3962	0.3966	286	133	---	20.4N	176.0W	14	09	3079	B.C.E.
02177	Jun	04	03:00	17:02	0597338.2101221	-3078	Jun	05	14:20:59	076703	LPU	Dec.	-0.8767	1.2534	0.2457	286	112	---	18.1S	101.0E	13	02	3078	B.C.E.
02178	Oct	31	03:00	04:03	0597486.6690893	-3078	Nov	01	01:21:52	076703	LNN	Asc.	-1.4048	0.3247	-0.7631	170	---	---	4.6N	60.9W	14	07	3078	B.C.E.
02179	Nov	29	03:00	21:06	0597516.3793451	-3078	Nov	30	18:24:39	076703	LNN	Asc.	1.5508	0.0419	-0.1063	061	---	---	18.0N	41.9E	15	08	3078	B.C.E.
02180	Apr	24	03:00	23:07	0597663.4635411	-3077	Apr	25	20:25:21	076671	LPU	Dec.	0.9305	1.1214	0.1794	254	074	---	2.8S	13.8E	14	01	3077	B.C.E.
02181	Oct	19	03:00	03:33	0597840.642854	-3077	Oct	20	00:51:23	076671	LPU	Asc.	-0.7576	1.5220	0.4148	333	150	---	0.5N	53.1W	14	07	3077	B.C.E.
02182	Apr	14	03:00	16:24	0598018.1835296	-3076	Apr	15	13:41:35	076639	LTU	Dec.	0.1960	2.4723	1.5242	318	203	091	0.6N	115.5E	15	13	3076	B.C.E.
02183	Oct	08	03:00	04:09	0598194.6733122	-3076	Oct	09	01:26:56	076639	LTU	Asc.	-0.0611	2.7830	1.7095	364	229	102	3.6S	61.8W	13	06	3076	B.C.E.
02184	Apr	04	03:00	06:47	0598372.7827495	-3075	Apr	05	04:03:54	076606	LPU	Dec.	-0.5790	1.7919	0.7993	315	181	---	4.1N	99.4W	15	12	3075	B.C.E.
02185	Sep	27	03:00	11:40	0598548.9868603	-3075	Sep	28	08:57:36	076606	LPU	Asc.	0.6233	1.7049	0.6910	309	170	---	7.4S	174.5W	12	06	3075	B.C.E.
02186	Feb	22	03:00	23:50	0598697.4935950	-3074	Feb	23	21:07:00	076574	LNN	Dec.	1.4376	0.2575	-0.8163	154	---	---	19.4N	8.0E	14	11	3074	B.C.E.
02187	Mar	24	03:00	14:28	0598727.1300853	-3074	Mar	25	11:44:40	076574	LNN	Dec.	-1.3987	0.3157</										

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
	Month	Day	Time (UT)	Day	Time (UT)	Month	Day							Time (UT)	Pen.	Par.	Lat.	Lon.	Day	Month
02248	Dec	11	3052 B.C.E.	18:29:42	0607025.2706265	-3052	Dec 12	15:34:15	075874	LPU	Dec.	0.5938	1.7776	0.7597	315	177	---	20.6N	82.1E	15 09 3052 B.C.E.
02249	Jun	05	3051 B.C.E.	22:53:01	0607201.4534791	-3051	Jun 06	19:57:04	075842	LPU	Asc.	-0.5592	1.8261	0.8376	315	182	---	18.3S	13.6E	12 02 3051 B.C.E.
02250	Dec	01	3051 B.C.E.	01:25:15	0607379.5591994	-3051	Dec 01	22:29:14	075842	LPU	Dec.	-0.1013	2.7110	1.6340	365	229	101	17.0N	22.2W	14 03 3051 B.C.E.
02251	May	26	3050 B.C.E.	13:41:06	0607556.7021400	-3050	May 27	10:44:37	075810	LPU	Asc.	0.2096	2.4464	1.5002	317	202	090	14.5S	152.2E	13 02 3050 B.C.E.
02252	Nov	20	3050 B.C.E.	01:39:03	0607733.5687822	-3050	Nov 20	22:42:34	075810	LPU	Dec.	-0.7932	1.4568	0.3495	329	139	---	12.8N	25.7W	14 08 3050 B.C.E.
02253	May	15	3049 B.C.E.	06:59:21	0607910.7912133	-3049	May 16	04:02:18	075778	LPU	Asc.	0.9439	1.0977	0.1540	252	066	---	10.3S	106.4W	14 02 3049 B.C.E.
02254	Oct	09	3049 B.C.E.	08:41:31	0608057.8621598	-3049	Oct 10	05:44:28	075778	LNN	Dec.	-1.5168	0.1022	-0.9517	094	---	---	1.5S	130.4W	13 07 3049 B.C.E.
02255	Nov	08	3049 B.C.E.	01:27:03	0608087.5604476	-3049	Nov 08	22:30:00	075778	LNN	Dec.	-1.4352	0.2670	-0.8171	154	---	---	8.0N	22.3W	13 08 3049 B.C.E.
02256	Apr	05	3048 B.C.E.	12:25:52	0608236.0179578	-3048	Apr 06	09:28:17	075746	LPU	Asc.	-0.8759	1.2569	0.2449	288	112	---	3.1N	175.7E	14 13 3048 B.C.E.
02257	Sep	28	3048 B.C.E.	18:38:18	0608412.2765967	-3048	Sep 29	15:40:46	075747	LPU	Dec.	0.7688	1.4455	0.4491	288	140	---	6.5S	81.1E	13 06 3048 B.C.E.
02258	Mar	25	3047 B.C.E.	17:36:11	0608590.2334614	-3047	Mar 26	14:38:05	075715	LPU	Asc.	-0.1233	2.6628	1.6013	369	232	102	8.0N	99.5E	15 12 3047 B.C.E.
02259	Sep	18	3047 B.C.E.	09:39:03	0608766.9021144	-3047	Sep 19	06:40:58	075715	LPU	Dec.	0.0792	2.6963	1.7288	319	206	097	11.2S	143.5W	13 06 3047 B.C.E.
02260	Mar	14	3046 B.C.E.	18:07:10	0608944.2549788	-3046	Mar 15	15:08:33	075683	LPU	Asc.	0.6322	1.7339	0.6629	343	182	---	12.6N	92.9E	14 12 3046 B.C.E.
02261	Sep	08	3046 B.C.E.	01:10:54	0609121.5492333	-3046	Sep 08	22:12:16	075683	LPU	Dec.	-0.6066	1.7369	0.7530	301	170	---	15.6S	16.1W	14 05 3046 B.C.E.
02262	Feb	02	3045 B.C.E.	09:06:07	0609268.8792459	-3045	Feb 03	06:06:58	075651	LNN	Asc.	-1.3979	0.3000	-0.7138	153	110	---	21.2N	132.1W	13 10 3045 B.C.E.
02263	Feb	02	3045 B.C.E.	21:18:09	0609298.3876026	-3045	Mar 03	18:18:59	075651	LNN	Asc.	1.3462	0.4052	-0.6289	182	---	---	16.9N	45.8E	13 11 3045 B.C.E.
02264	Jul	28	3045 B.C.E.	22:40:20	0609446.4446715	-3045	Jul 29	19:41:11	075651	LNN	Dec.	1.4624	0.2012	-0.8513	133	---	---	22.3S	19.5E	15 04 3045 B.C.E.
02265	Aug	27	3045 B.C.E.	12:37:44	0609476.0261991	-3045	Aug 28	09:38:35	075651	LNN	Dec.	-1.3622	0.3754	-0.6579	173	---	---	19.5S	172.1E	14 05 3045 B.C.E.
02266	Jan	21	3044 B.C.E.	22:03:43	0609623.9129215	-3044	Jan 22	19:04:04	075620	LPU	Asc.	-0.6339	1.6797	0.7099	295	163	---	23.1N	32.7E	13 10 3044 B.C.E.
02267	Jul	18	3044 B.C.E.	00:21:52	0609800.5151886	-3044	Jul 18	21:22:12	075620	LPU	Dec.	0.7690	1.4880	0.4069	329	149	---	23.3S	6.8W	14 04 3044 B.C.E.
02268	Jan	11	3043 B.C.E.	14:13:14	0609978.0925246	-3043	Jan 12	11:13:01	075588	LPU	Asc.	0.0629	2.7240	1.7611	319	207	098	24.1N	149.2E	13 10 3043 B.C.E.
02269	Jul	07	3043 B.C.E.	01:00:26	0610154.5419639	-3043	Jul 07	22:00:17	075588	LPU	Dec.	0.0222	2.8476	1.7877	367	232	105	23.5S	17.4W	14 03 3043 B.C.E.
02270	Jan	01	3042 B.C.E.	04:54:31	0610332.3755271	-3042	Jan 02	01:53:46	075556	LPU	Asc.	0.7764	1.4335	0.4333	290	139	---	24.2N	72.4W	14 09 3042 B.C.E.
02271	Jun	26	3042 B.C.E.	07:30:53	0610508.8131171	-3042	Jun 27	04:30:10	075556	LPU	Dec.	-0.7297	1.5214	0.5167	303	154	---	22.9S	115.8W	13 03 3042 B.C.E.
02272	Nov	21	3042 B.C.E.	20:40:21	0610657.3613535	-3042	Nov 22	17:39:36	075556	LNN	Asc.	-1.4144	0.3088	-0.7823	167	---	---	12.9N	49.4E	15 08 3042 B.C.E.
02273	Dec	21	3042 B.C.E.	13:45:38	0610687.0733612	-3042	Dec 22	10:44:54	075556	LNN	Asc.	1.5419	0.0591	-1.0007	072	---	---	23.4N	153.5E	14 09 3042 B.C.E.
02274	May	16	3041 B.C.E.	14:07:44	0610834.0887041	-3041	May 17	11:06:28	075524	LNN	Dec.	1.0788	0.8484	-0.0918	227	---	---	10.7S	146.6E	13 02 3041 B.C.E.
02275	Jun	14	3041 B.C.E.	21:03:08	0610863.3771708	-3041	Jun 15	18:01:52	075524	LNN	Dec.	-1.4223	0.2256	-0.7293	126	---	---	21.5S	40.6E	13 03 3041 B.C.E.
02276	Nov	09	3041 B.C.E.	05:55:25	0611011.3301483	-3041	Nov 10	16:54:08	075524	LPU	Asc.	-0.7622	1.5132	0.4068	332	149	---	9.4N	60.5E	14 08 3041 B.C.E.
02277	May	06	3040 B.C.E.	07:18:37	0611188.8045923	-3040	May 07	04:16:49	075493	LPU	Dec.	0.3507	2.1899	1.2388	314	195	069	7.6S	110.5W	14 01 3040 B.C.E.
02278	Oct	29	3040 B.C.E.	21:00:47	0611365.3755463	-3040	Oct 30	17:59:03	075493	LPU	Asc.	-0.0644	2.7749	1.7054	361	228	102	5.5N	44.2E	13 07 3040 B.C.E.
02279	Apr	25	3039 B.C.E.	21:03:08	0611543.3771763	-3039	Apr 26	18:00:47	075461	LPU	Dec.	-0.4259	2.0755	1.0775	329	202	043	4.2S	44.2E	15 01 3039 B.C.E.
02280	Oct	19	3039 B.C.E.	05:13:10	0611719.1747336	-3039	Oct 20	02:10:52	075461	LPU	Asc.	0.6238	1.7190	0.7080	308	171	---	1.6N	78.7W	13 07 3039 B.C.E.
02281	Apr	15	3038 B.C.E.	03:52:16	0611897.6612907	-3038	Apr 16	00:49:26	075430	LNN	Dec.	-1.2448	0.5993	-0.4509	223	---	---	0.7S	57.2W	14 01 3038 B.C.E.
02282	Sep	09	3038 B.C.E.	09:04:12	0612044.8791942	-3038	Sep 10	06:01:22	075430	LNN	Asc.	-1.3925	0.2857	-0.6800	140	---	---	15.9S	134.0W	14 06 3038 B.C.E.
02283	Oct	08	3038 B.C.E.	19:18:43	0612074.3046671	-3038	Oct 09	16:15:53	075430	LNN	Asc.	1.2576	0.5368	-0.4361	187	---	---	2.2S	70.2E	14 07 3038 B.C.E.
02284	Mar	04	3037 B.C.E.	13:56:16	0612222.0807461	-3037	Mar 05	10:52:55	075398	LPU	Dec.	0.8358	1.3579	0.2918	314	127	---	15.8N	156.3E	13 12 3037 B.C.E.
02285	Aug	28	3037 B.C.E.	23:58:39	0612399.4990634	-3037	Aug 29	20:55:16	075398	LPU	Asc.	-0.7492	1.4805	0.4860	291	145	---	18.5S	2.0E	15 05 3037 B.C.E.
02286	Feb	21	3036 B.C.E.	18:49:55	0612576.2846627	-3036	Feb 22	15:46:04	075366	LPU	Dec.	0.0565	2.7649	1.7440	349	224	102	18.4N	82.8E	13 11 3036 B.C.E.
02287	Aug	18	3036 B.C.E.	09:39:25	0612753.9023768	-3036	Aug 19	06:35:29	075366	LPU	Asc.	-0.0422	2.8045	1.7571	357	227	103	20.6S	143.9W	14 05 3036 B.C.E.
02288	Feb	11	3035 B.C.E.	09:46:45	0612930.7824698	-3035	Feb 12	03:42:20	075334	LPU	Dec.	-0.6767	1.6203	0.6302	340	156	---	20.2N	96.9W	13 11 3035 B.C.E.
02289	Aug	07	3035 B.C.E.	12:16:33	0613108.0114908	-3035	Aug 08	09:12:06	075334	LPU	Asc.	0.6979	1.6203	0.5356	337	167	---	22.0S	175.9E	14 04 3035 B.C.E.
02290	Jan	02	3034 B.C.E.	13:41:36	0613256.0705536	-3034	Jan 03	10:36:38	075302	LPU	Dec.	1.2543	0.5419	-0.4291	189	---	---	24.9N	156.1E	14 09 3034 B.C.E.
02291	Jan	31	3034 B.C.E.	22:53:46	0613285.4540076	-3034	Feb 01	19:48:48	075302	LPU	Dec.	-1.3521	0.3544	-0.6006	154	---	---	21.4N	20.6E	14 10 3034 B.C.E.
02292	Jun	27	3034 B.C.E.	21:33:14	0613432.3980843	-3034	Jun 28	18:28:16	075302	LNN	Asc.	-1.4396	0.2388	-0.8052	144	---	---	23.8S	33.8E	13 03 3034 B.C.E.
02293	Jul	27	3034 B.C.E.	12:13:33	0613462.0094106	-3034	Jul 28	09:08:35	075302	LNN	Asc.	1.4046	0.3183	-0.7559	170	---	---	22.5S	175.7E	13 04 3034 B.C.E.
02294	Dec	23	3034 B.C.E.	03:02:16	0613610.6265735	-3034	Dec 23	23:57:16	075302	LPU	Asc.	0.6050	1.7574	0.7388	315	176	---	22.9N	45.1W	14 09 3034 B.C.E.
02295	Jun	16	3033 B.C.E.	06:14:22	0613786.7599718	-3033	Jun 17	03:08:54	075271	LPU	Asc.	-0.6258	1.7032	0.7163	308	171	---	21.0S	96.8W	13 03 3033 B.C.E.
02296	Dec	11	3033 B.C.E.	09:39:51	0613964.9026720	-3033	Dec 12	06:34:20	075271	LPU	Dec.	-0.0953	2.7223	1.6447	366	229	101	20.0N	145.3W	14 09 3033 B.C.E.
02297	Jun	05	3032 B.C.E.	21:14:56	0614141.3853723	-3032	Jun 06													

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)	(JD)	Time (UT)	(seconds)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Year	Month	Year						
02355	Mar	24	3009	B.C.E.	11:31:16	0622468.9800409	-3009	Mar 25	08:13:09	074513	LNN	Asc.	1.2060	0.6562	-0.3657	224	---	---	9.3N	168.8W	13	12	3009	B.C.E.	
02356	Aug	19	3009	B.C.E.	13:49:14	0622617.0758536	-3009	Aug 20	10:31:07	074514	LNN	Dec.	1.5466	0.0533	-1.0122	070	---	---	18.8S	153.5E	14	05	3009	B.C.E.	
02357	Sep	18	3009	B.C.E.	05:03:32	0622646.7107821	-3009	Sep 19	01:45:26	074514	LNN	Dec.	-1.3383	0.4256	-0.6202	185	---	---	12.3S	74.3W	14	06	3009	B.C.E.	
02358	Feb	12	3008	B.C.E.	14:25:13	0622794.1008495	-3008	Feb 13	11:06:36	074482	LPU	Asc.	-0.7083	1.5382	0.5782	286	147	---	---	19.8N	148.7E	13	11	3008	B.C.E.
02359	Aug	08	3008	B.C.E.	14:39:00	0622971.1104131	-3008	Aug 09	11:20:21	074482	LPU	Dec.	0.8726	1.3019	0.2129	315	111	---	---	21.6S	140.5E	13	04	3008	B.C.E.
02360	Feb	02	3007	B.C.E.	06:58:44	0623148.7907825	-3007	Feb 03	03:39:34	074451	LTU	Asc.	0.0006	2.8361	1.8774	320	207	099	---	22.5N	100.2W	14	10	3007	B.C.E.
02361	Jul	28	3007	B.C.E.	15:23:58	0623325.1416445	-3007	Jul 29	12:04:51	074451	LTU	Dec.	0.1367	2.6382	1.5769	364	229	100	---	23.5S	128.5E	13	04	3007	B.C.E.
02362	Jan	22	3006	B.C.E.	21:31:33	0623503.3969135	-3006	Jan 23	18:11:52	074419	LPU	Asc.	0.7313	1.5161	0.5162	297	151	---	---	24.4N	40.7E	15	10	3006	B.C.E.
02363	Jul	17	3006	B.C.E.	22:32:49	0623679.4394549	-3006	Jul 18	19:13:09	074419	LPU	Dec.	-0.6070	1.7461	0.7426	314	177	---	---	24.6S	20.3E	13	04	3006	B.C.E.
02364	Dec	13	3006	B.C.E.	13:00:24	0623828.0419417	-3006	Dec 14	09:40:43	074419	LNN	Asc.	-1.4335	0.2739	-0.8175	158	---	---	---	19.2N	165.0E	14	09	3006	B.C.E.
02365	Jan	12	3005	B.C.E.	05:51:15	0623857.7439225	-3005	Jan 13	02:31:02	074387	LNN	Asc.	-1.5105	0.1165	-0.9431	102	---	---	---	25.4N	85.4W	14	10	3005	B.C.E.
02366	Jun	07	3005	B.C.E.	05:16:08	0624004.7195319	-3005	Jun 08	01:55:54	074387	LNN	Dec.	1.2201	0.5898	-0.3516	194	---	---	---	17.2S	81.6W	14	02	3005	B.C.E.
02367	Jul	06	3005	B.C.E.	12:30:43	0624034.0213273	-3005	Jul 07	09:10:30	074387	LNN	Dec.	-1.2958	0.4582	-0.4976	175	---	---	---	24.8S	169.8E	13	03	3005	B.C.E.
02368	Dec	01	3005	B.C.E.	12:11:47	0624182.0081797	-3005	Dec 02	08:51:34	074387	LPU	Asc.	-0.7711	1.4948	0.3925	330	146	---	---	16.8N	176.4E	13	08	3005	B.C.E.
02369	May	27	3004	B.C.E.	22:09:59	0624359.4236036	-3004	May 28	18:49:14	074356	LPU	Dec.	0.5049	1.9099	0.9529	306	181	---	---	14.9S	25.0E	15	02	3004	B.C.E.
02370	Nov	20	3004	B.C.E.	13:59:04	0624536.0826873	-3004	Nov 21	10:38:23	074356	LTU	Asc.	-0.0645	2.7714	1.7088	359	226	102	---	13.8N	149.1E	12	08	3004	B.C.E.
02371	May	17	3003	B.C.E.	11:05:44	0624713.9623197	-3003	May 18	07:44:26	074324	LTU	Dec.	-0.2655	2.3737	1.3681	341	216	085	12	18	168.6W	14	02	3003	B.C.E.
02372	Nov	09	3003	B.C.E.	22:57:11	0624890.4563740	-3003	Nov 10	19:35:56	074324	LPU	Asc.	0.6224	1.7190	0.7131	306	171	---	---	10.5N	14.4E	13	08	3003	B.C.E.
02373	May	06	3002	B.C.E.	16:58:38	0625068.2073875	-3002	May 07	13:36:51	074293	LNN	Dec.	-1.0782	0.9071	-0.1471	268	---	---	---	8.8S	103.8E	15	01	3002	B.C.E.
02374	Oct	01	3002	B.C.E.	02:42:57	0625215.6131545	-3002	Oct 01	23:21:09	074293	LNN	Asc.	-1.4142	0.2488	-0.7226	131	---	---	---	7.7S	39.2W	14	06	3002	B.C.E.
02375	Oct	30	3002	B.C.E.	13:22:15	0625245.0591207	-3002	Oct 31	10:00:28	074293	LNN	Asc.	1.2543	0.5431	-0.4301	188	---	---	---	6.8N	158.1E	13	07	3002	B.C.E.
02376	Mar	26	3001	B.C.E.	03:29:36	0625392.6455528	-3001	Mar 27	00:07:18	074262	LPU	Dec.	0.9807	1.0870	0.0306	288	042	---	---	8.4N	48.5W	13	12	3001	B.C.E.
02377	Sep	19	3001	B.C.E.	16:59:42	0625570.3812446	-3001	Sep 20	13:37:24	074262	LPU	Asc.	-0.7845	1.4213	0.4157	290	137	---	---	11.2S	106.6E	15	06	3001	B.C.E.
02378	Mar	15	3000	B.C.E.	09:32:20	0625746.8974524	-3000	Mar 16	06:09:32	074230	LTU	Dec.	0.1809	2.5302	1.5221	343	220	095	11.7N	138.6W	13	12	3000	B.C.E.	
02379	Sep	09	3000	B.C.E.	01:35:09	0625924.5660819	-3000	Sep 09	22:12:17	074230	LPU	Asc.	-0.0930	2.7178	1.6576	360	227	101	14.5S	22.4W	15	06	3000	B.C.E.	
02380	Mar	04	2999	B.C.E.	22:30:45	0626101.4380151	-2999	Mar 05	19:07:24	074199	LPU	Dec.	-0.5695	1.7938	0.8321	301	173	---	---	14.6N	27.1E	14	12	2999	B.C.E.
02381	Aug	29	2999	B.C.E.	03:14:29	0626278.6350560	-2999	Aug 29	23:51:08	074199	LPU	Asc.	0.6264	1.7561	0.6621	347	182	---	---	17.3S	47.5W	14	05	2999	B.C.E.
02382	Jan	24	2998	B.C.E.	06:38:02	0626426.7764105	-2998	Jan 25	03:14:09	074167	LNN	Dec.	1.3083	0.4415	-0.5268	173	---	---	---	24.8N	95.5W	14	10	2998	B.C.E.
02383	Feb	22	2998	B.C.E.	15:08:35	0626456.1309558	-2998	Feb 23	11:44:42	074167	LNN	Dec.	-1.2665	0.5089	-0.4408	182	---	---	---	17.0N	137.6E	13	11	2998	B.C.E.
02384	Jul	19	2998	B.C.E.	11:55:58	0626602.9972011	-2998	Jul 20	08:32:05	074167	LNN	Asc.	-1.5486	0.0386	-1.0051	058	---	---	---	25.5S	179.9E	13	04	2998	B.C.E.
02385	Aug	18	2998	B.C.E.	03:05:21	0626632.6266284	-2998	Aug 18	23:38:28	074167	LNN	Asc.	1.3143	0.4855	-0.5918	206	---	---	---	19.5S	45.1W	13	05	2998	B.C.E.
02386	Jan	13	2997	B.C.E.	19:42:34	0626781.3212276	-2997	Jan 14	16:18:09	074136	LPU	Dec.	0.6465	1.6814	0.6623	313	170	---	---	24.6N	67.1E	15	10	2997	B.C.E.
02387	Jul	07	2997	B.C.E.	21:17:56	0626957.3874481	-2997	Jul 08	17:53:32	074136	LPU	Dec.	-0.7447	1.4842	0.4989	293	146	---	---	24.4S	38.4E	13	03	2997	B.C.E.
02388	Jan	02	2996	B.C.E.	01:45:05	0627135.5729722	-2996	Jan 02	22:20:06	074104	LTU	Dec.	-0.0650	2.7776	1.7006	368	231	103	23.5N	24.7W	14	09	2996	B.C.E.	
02389	Jun	27	2996	B.C.E.	12:37:33	0627312.0260742	-2996	Jun 28	09:12:37	074104	LPU	Asc.	0.0077	2.8176	1.8699	318	206	099	22.5S	167.9E	13	03	2996	B.C.E.	
02390	Dec	22	2996	B.C.E.	01:40:29	0627489.5697770	-2996	Dec 22	22:15:33	074104	LPU	Dec.	-0.7676	1.5004	0.3997	331	148	---	---	21.5N	24.7W	14	09	2996	B.C.E.
02391	Jun	17	2995	B.C.E.	05:37:36	0627666.7344428	-2995	Jun 18	02:12:08	074073	LPU	Asc.	0.7388	1.4785	0.5258	282	140	---	---	19.9S	87.4W	14	03	2995	B.C.E.
02392	Nov	11	2995	B.C.E.	10:26:53	0627813.9353382	-2995	Nov 12	07:01:26	074073	LNN	Dec.	1.4966	0.1351	-0.9107	106	---	---	---	11.9N	158.2W	12	08	2995	B.C.E.
02393	Dec	11	2995	B.C.E.	02:22:34	0627843.5990087	-2995	Dec 11	22:57:08	074073	LNN	Dec.	-1.4961	0.2904	-0.7815	159	---	---	---	18.6N	35.9W	13	09	2995	B.C.E.
02394	May	08	2994	B.C.E.	09:12:16	0627991.8835134	-2994	May 09	05:46:16	074041	LNN	Asc.	-1.1214	0.8109	-0.2099	246	---	---	---	9.6S	139.6W	14	01	2994	B.C.E.
02395	Jun	06	2994	B.C.E.	19:39:11	0628201.3188828	-2994	Jun 07	16:13:12	074041	LNN	Asc.	1.5351	0.0389	-0.9563	056	---	---	---	16.6E	62.5E	15	02	2994	B.C.E.
02396	Oct	31	2994	B.C.E.	21:19:50	0628368.3887743	-2994	Nov 01	17:53:51	074041	LPU	Dec.	0.7593	1.4610	0.4686	286	141	---	---	7.0N	39.1E	13	07	2994	B.C.E.
02397	Apr	26	2993	B.C.E.	13:10:49	0628346.0491767	-2993	Apr 27	09:44:19	074011	LPU	Asc.	-0.3765	2.1989	1.1360	362	218	059	4.8S	162.2E	14	01	2993	B.C.E.	
02398	Oct	20	2993	B.C.E.	12:31:13	0628520.0216725	-2993	Oct 21	09:04:44	074011	LTU	Dec.	0.0862	2.6858	1.7138	319	207	096	2.0N	171.9E	13	07	2993	B.C.E.	
02399	Apr	15	2992	B.C.E.	13:50:07	0628700.0764716	-2992	Apr 16	10:23:07	073979	LPU	Asc.	0.3885	2.1758	1.1151	360	216	054	0.2N	153.9E	13</				

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Month	Day	Hour	Minute	Year	Month	Day	Hour						Minute	Pen.	Par.	Pen.	Par.	Lat.	Lon.	Day	Month	Year	Day	Month	Year
02462	Jun	08	2967	B.C.E.	01:07:46	0637884	5470611	-2967	Jun	08	21:27:41	073197	LTU	Dec.	-0.1092	2.6656	1.6500	349	224	101	18.6S	20.0W	15	02	2967	B.C.E.
02463	Dec	01	2967	B.C.E.	16:39:44	0638061	1942628	-2967	Dec	02	12:59:42	073197	LPU	Asc.	0.6182	1.7229	0.7244	304	171	---	18.0N	108.9E	13	08	2967	B.C.E.
02464	May	28	2966	B.C.E.	05:58:50	0638283	7491888	-2966	May	29	02:18:16	073166	LPU	Dec.	-0.9077	1.2228	0.1627	303	097	---	16.1S	92.8W	14	02	2966	B.C.E.
02465	Oct	22	2966	B.C.E.	20:40:57	0638386	3617721	-2966	Oct	23	17:00:24	073166	LNN	Asc.	-1.4206	0.2393	-0.7365	129	---	---	1.4N	50.1E	14	07	2966	B.C.E.
02466	Nov	21	2966	B.C.E.	07:28:59	0638415	8117931	-2966	Nov	22	03:48:25	073166	LNN	Asc.	1.2548	0.5413	-0.4302	188	---	---	15.2N	114.0W	13	08	2966	B.C.E.
02467	Apr	16	2965	B.C.E.	16:46:58	0638563	1992863	-2965	Apr	17	13:05:53	073134	LNN	Dec.	-1.1397	0.7910	-0.2568	251	---	---	0.1N	109.9E	14	01	2965	B.C.E.
02468	Oct	11	2965	B.C.E.	10:22:23	0638740	9322118	-2965	Oct	12	06:41:16	073134	LPU	Asc.	-0.7999	1.3980	0.3828	290	133	---	2.5S	155.0W	14	07	2965	B.C.E.
02469	Apr	05	2964	B.C.E.	23:56:18	0638917	4974319	-2964	Apr	06	20:14:43	073103	LTU	Dec.	0.3248	2.2604	1.2636	334	210	074	3.7N	3.4E	13	2964	B.C.E.	
02470	Sep	30	2964	B.C.E.	17:57:58	0639095	2485859	-2964	Oct	01	14:16:18	073103	LPU	Asc.	-0.1188	2.6761	1.6048	363	227	100	6.3S	91.3E	15	06	2964	B.C.E.
02471	Mar	26	2963	B.C.E.	13:50:09	0639272	0764909	-2963	Mar	27	10:08:01	073072	LTU	Dec.	-0.4387	2.0294	1.0764	308	187	041	7.1N	155.7E	13	12	2963	B.C.E.
02472	Sep	19	2963	B.C.E.	18:46:08	0639449	2820377	-2963	Sep	20	15:04:00	073072	LPU	Asc.	0.5819	1.8415	0.7400	352	190	---	10.1S	79.4E	14	06	2963	B.C.E.
02473	Feb	14	2962	B.C.E.	22:57:46	0639597	4567836	-2962	Feb	15	19:15:06	073040	LNN	Dec.	-1.3916	0.2874	-0.6786	142	---	---	21.3N	21.2E	14	11	2962	B.C.E.
02474	Mar	16	2962	B.C.E.	06:52:21	0639626	7863549	-2962	Mar	17	03:09:41	073040	LNN	Dec.	-1.1559	0.7099	-0.2361	211	---	---	10.3N	99.3W	14	12	2962	B.C.E.
02475	Sep	08	2962	B.C.E.	18:33:30	0639803	2732593	-2962	Sep	09	14:50:51	073041	LNN	Asc.	1.2537	0.5979	-0.4817	225	---	---	13.5S	82.5E	13	06	2962	B.C.E.
02476	Feb	04	2961	B.C.E.	11:40:35	0639951	9865142	-2961	Feb	05	07:57:24	073010	LPU	Dec.	0.7196	1.5474	0.5282	307	156	---	22.8N	170.3W	14	11	2961	B.C.E.
02477	Jul	29	2961	B.C.E.	12:57:20	0640128	0398119	-2961	Jul	30	09:14:10	073010	LPU	Asc.	-0.8377	1.3135	0.3282	279	120	---	24.3S	165.4E	13	04	2961	B.C.E.
02478	Jan	23	2960	B.C.E.	17:10:13	0640306	2154295	-2960	Jan	24	13:26:30	072979	LTU	Dec.	0.0044	2.8878	1.8129	370	233	105	23.5N	106.2E	15	10	2960	B.C.E.
02479	Jul	19	2960	B.C.E.	04:26:36	0640482	6851377	-2960	Jul	20	00:42:55	072979	LTU	Asc.	-0.1020	2.6464	1.6949	318	205	097	24.1S	67.9W	14	04	2960	B.C.E.
02480	Jan	12	2959	B.C.E.	17:05:07	0640660	2118838	-2959	Jan	13	03:20:55	072948	LPU	Dec.	-0.7191	1.5855	0.4924	336	161	---	23.4N	106.3E	14	10	2959	B.C.E.
02481	Jul	08	2959	B.C.E.	21:03:57	0640837	3777405	-2959	Jul	09	17:19:44	072948	LPU	Asc.	0.6215	1.6983	0.7367	296	164	---	23.1S	41.9E	15	03	2959	B.C.E.
02482	Dec	03	2959	B.C.E.	03:38:17	0640984	6515891	-2959	Dec	03	23:54:05	072948	LNN	Dec.	1.4864	0.1494	-0.8877	111	---	---	19.3N	55.7W	13	08	2959	B.C.E.
02483	Jan	01	2958	B.C.E.	18:37:29	0641014	2760289	-2958	Jan	02	14:52:45	072916	LNN	Dec.	-1.3856	0.3463	-0.7143	171	---	---	22.3N	82.1E	13	09	2958	B.C.E.
02484	May	29	2958	B.C.E.	22:51:38	0641162	4525197	-2958	May	30	19:06:54	072916	LNN	Asc.	-1.2871	0.5112	-0.5182	203	---	---	17.1S	140.1E	15	02	2958	B.C.E.
02485	Jun	28	2958	B.C.E.	10:09:21	0641191	9231543	-2958	Jun	29	06:24:37	072916	LNN	Asc.	1.4129	0.2691	-0.7378	146	---	---	21.2S	155.0W	14	03	2958	B.C.E.
02486	Nov	22	2958	B.C.E.	15:15:18	0641339	1356272	-2958	Nov	23	11:30:35	072916	LPU	Dec.	0.7498	1.4759	0.4886	286	142	---	15.3N	129.8E	13	08	2958	B.C.E.
02487	May	18	2957	B.C.E.	02:00:09	0641516	5834419	-2957	May	18	22:14:54	072885	LPU	Asc.	-0.5534	1.8758	0.8101	350	196	---	12.9S	32.3W	14	02	2957	B.C.E.
02488	Nov	11	2957	B.C.E.	06:38:18	0641870	6167916	-2957	Nov	12	02:53:03	072885	LTU	Dec.	0.0801	2.6974	1.7244	320	207	097	10.8N	100.7W	13	08	2957	B.C.E.
02489	Apr	07	2956	B.C.E.	02:48:11	0642070	18617916	-2956	Apr	07	23:02:26	072854	LTU	Asc.	0.2141	2.4933	1.4377	365	229	094	8.2S	43.1W	13	01	2956	B.C.E.
02490	Oct	31	2956	B.C.E.	21:09:49	0642408	3818216	-2956	Nov	01	17:24:02	072854	LPU	Dec.	-0.6002	1.7588	0.7548	307	174	---	6.0N	41.9E	15	07	2956	B.C.E.
02491	Apr	26	2955	B.C.E.	08:28:17	0642224	5829772	-2955	Apr	27	04:42:00	072822	LPU	Asc.	0.9680	1.0855	0.0783	272	065	---	3.4S	126.7W	13	01	2955	B.C.E.
02492	Oct	21	2955	B.C.E.	08:21:14	0642402	7647503	-2955	Oct	22	02:34:56	072822	LNN	Dec.	-1.3407	0.4287	-0.6319	188	---	---	0.9N	95.2W	14	07	2955	B.C.E.
02493	Mar	17	2954	B.C.E.	14:02:00	0642550	0847243	-2954	Mar	18	10:15:12	072792	LPU	Asc.	-0.8673	1.2402	0.2926	264	102	---	10.0N	153.5E	13	12	2954	B.C.E.
02494	Sep	10	2954	B.C.E.	13:18:09	0642727	0542701	-2954	Sep	11	09:31:21	072792	LPU	Asc.	0.9646	1.1380	0.0391	300	049	---	13.1S	161.6E	13	06	2954	B.C.E.
02495	Mar	06	2953	B.C.E.	07:02:00	0642904	7930582	-2953	Mar	07	03:14:40	072761	LTU	Asc.	-0.1460	2.5671	1.6129	319	205	095	14.3N	100.6W	14	12	2953	B.C.E.
02496	Aug	29	2953	B.C.E.	14:19:38	0643291	0969728	-2953	Aug	30	10:32:22	072761	LPU	Dec.	0.2460	2.4386	1.3752	358	287	177	17.3S	146.3E	13	05	2953	B.C.E.
02497	Feb	23	2952	B.C.E.	21:11:58	0643259	3833121	-2952	Feb	24	17:24:07	072730	LPU	Asc.	0.6104	1.7381	0.7380	313	176	---	18.2N	47.3E	15	11	2952	B.C.E.
02498	Aug	18	2952	B.C.E.	22:20:28	0643435	4308789	-2952	Aug	19	18:32:39	072730	LPU	Dec.	-0.4797	1.9795	0.9762	321	193	---	20.8S	25.9E	13	05	2952	B.C.E.
02499	Jan	14	2951	B.C.E.	12:30:33	0643584	0212114	-2951	Jan	15	08:42:12	072699	LNN	Asc.	-1.5039	0.1426	-0.9445	116	---	---	22.6N	175.3E	14	10	2951	B.C.E.
02500	Feb	13	2951	B.C.E.	04:37:43	0643613	6928605	-2951	Feb	14	00:49:21	072699	LNN	Asc.	1.4063	0.3069	-0.7510	164	---	---	21.6N	64.2W	14	11	2951	B.C.E.
02501	Jul	10	2951	B.C.E.	04:34:31	0643760	6906418	-2951	Jul	11	00:46:11	072699	LNN	Dec.	1.4019	0.2593	-0.6884	133	---	---	22.4S	70.4W	14	03	2951	B.C.E.
02502	Aug	08	2951	B.C.E.	12:42:55	0643790	2979992	-2951	Aug	09	08:54:33	072699	LNN	Dec.	-1.1544	0.7200	-0.2404	213	---	---	23.5S	169.7E	13	04	2951	B.C.E.
02503	Jan	03	2950	B.C.E.	11:58:29	0643937	9989468	-2950	Jan	04	08:09:37	072667	LPU	Asc.	-0.8157	1.4069	0.3165	321	132	---	22.0N	177.8W	13	09	2950	B.C.E.
02504	Jun	29	2950	B.C.E.	20:44:50	0644115	3644646	-2950	Jun	30	16:55:56	072667	LPU	Dec.	0.7150	1.5312	0.5607	291	149	---	22.1S	46.3E	15	03	2950	B.C.E.
02505	Dec	23	2950	B.C.E.	15:06:42	0644292	1296582	-2950	Dec	24	11:17:52	072667	LTU	Asc.	-0.0856	2.7248	1.6775	354	225							

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Year	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Time of Maximum Eclipse							Pen.	Par.	Pen.	Par.	Pen.	Par.	Lat.	Lon.	Year	Month	Year		
02569	Aug	09	2924	B.C.E.	20:48:33	0653653.	3670439	-2924	Aug	10	16:46:14	071861	LTU	Asc.	-0.1856	2.4956	1.5389	316	203	091	22.2S	48.4E	14	05	2924	B.C.E.
02570	Feb	03	2923	B.C.E.	07:53:00	0653830.	8284729	-2923	Feb	04	03:50:10	071830	LPU	Dec.	-0.6387	1.7284	0.6445	344	180	---	21.6N	113.8W	13	11	2923	B.C.E.
02571	Jul	30	2923	B.C.E.	12:55:06	0654008.	8038267	-2923	Jul	31	08:52:15	071830	LPU	Asc.	0.5262	1.8783	0.9063	307	180	---	22.9S	165.8E	14	04	2923	B.C.E.
02572	Dec	24	2923	B.C.E.	20:34:47	0654155.	3574927	-2923	Dec	25	16:31:58	071831	LNN	Dec.	1.4919	0.1338	-0.8923	104	---	---	24.1N	51.9E	13	09	2923	B.C.E.
02573	Jan	23	2922	B.C.E.	10:23:53	0654184.	9332574	-2922	Jan	24	06:20:34	071800	LNN	Dec.	-1.4249	0.4511	-0.5965	192	---	---	22.3N	152.5W	13	10	2922	B.C.E.
02574	Jun	20	2922	B.C.E.	12:37:39	0654333.	0261444	-2922	Jun	21	08:34:19	071800	LNN	Asc.	-1.4424	0.2315	-0.8084	141	---	---	22.6S	167.5E	14	03	2922	B.C.E.
02575	Jul	20	2922	B.C.E.	00:59:52	0654362.	5415790	-2922	Jul	20	20:56:32	071800	LNN	Asc.	1.3087	0.4669	-0.5530	190	---	---	22.8S	16.3W	15	04	2922	B.C.E.
02576	Dec	14	2922	B.C.E.	08:59:47	0654509.	8748496	-2922	Dec	15	04:56:27	071800	LPU	Dec.	0.7517	1.4687	0.4885	284	140	---	21.5N	135.3W	13	09	2922	B.C.E.
02577	Jun	08	2921	B.C.E.	14:55:06	0654687.	1216005	-2921	Jun	09	10:51:16	071769	LPU	Asc.	-0.7235	1.5659	0.4957	333	162	---	19.5S	133.0E	14	02	2921	B.C.E.
02578	Dec	03	2921	B.C.E.	00:39:58	0654864.	5277544	-2921	Dec	03	20:36:07	071769	LTU	Dec.	0.0785	2.6999	1.7278	320	207	---	18.2N	10.9W	14	08	2921	B.C.E.
02579	May	28	2920	B.C.E.	15:54:02	0655041.	1625197	-2920	May	29	10:49:41	071738	LTU	Asc.	0.0429	2.8058	1.7535	367	233	105	15.7S	118.8E	13	02	2920	B.C.E.
02580	Nov	22	2920	B.C.E.	14:54:05	0655219.	1208952	-2920	Nov	23	10:49:42	071738	LPU	Dec.	-0.6099	1.7432	0.7347	309	173	---	14.2N	135.4E	14	08	2920	B.C.E.
02581	May	17	2919	B.C.E.	22:29:51	0655395.	4373945	-2919	May	18	18:24:59	071707	LPU	Asc.	0.8054	1.3803	0.3802	294	135	---	11.5S	20.7E	13	02	2919	B.C.E.
02582	Nov	11	2919	B.C.E.	23:21:24	0655573.	4731942	-2919	Nov	12	19:16:31	071707	LNN	Dec.	-1.3528	0.4096	-0.6573	185	---	---	9.7N	8.9E	15	08	2919	B.C.E.
02583	Apr	08	2918	B.C.E.	05:18:09	0655720.	7209424	-2918	Apr	09	01:12:46	071676	LNN	Asc.	-0.9980	0.9976	0.0555	242	051	---	1.7N	77.7W	14	13	2918	B.C.E.
02584	May	07	2918	B.C.E.	12:05:13	0655750.	8036243	-2918	May	08	07:59:49	071676	LNN	Asc.	1.5020	0.0778	-0.8741	075	---	---	7.1S	178.0E	13	01	2918	B.C.E.
02585	Oct	02	2918	B.C.E.	05:08:19	0655897.	7141088	-2918	Oct	03	01:02:55	071676	LNT	Dec.	0.9895	1.0943	-0.0086	296	---	---	4.9S	76.7W	13	06	2918	B.C.E.
02586	Mar	27	2917	B.C.E.	22:25:13	0656075.	4341827	-2917	Mar	28	18:19:17	071645	LTU	Asc.	-0.2732	2.3333	1.3799	317	200	082	6.4N	26.9E	15	12	2917	B.C.E.
02587	Sep	20	2917	B.C.E.	06:29:00	0656251.	7701440	-2917	Sep	21	02:23:08	071645	LTU	Dec.	0.2790	2.3782	1.3148	355	219	081	9.9S	96.2W	13	06	2917	B.C.E.
02588	Mar	17	2916	B.C.E.	12:08:48	0656400.	0061078	-2916	Mar	18	08:02:20	071614	LPU	Asc.	0.4937	1.9531	0.9514	325	194	---	11.0N	177.9W	14	12	2916	B.C.E.
02589	Sep	09	2916	B.C.E.	15:03:28	0656606.	1274082	-2916	Sep	10	10:57:04	071614	LPU	Dec.	-0.4343	2.0629	1.0596	322	197	037	14.4S	135.6E	12	06	2916	B.C.E.
02590	Mar	06	2915	B.C.E.	18:54:11	0656784.	2876280	-2915	Mar	07	14:47:15	071583	LNN	Asc.	1.2976	0.5058	-0.5512	207	---	---	15.5N	81.6E	15	12	2915	B.C.E.
02591	Jul	31	2915	B.C.E.	20:40:54	0656941.	3617335	-2915	Aug	01	16:33:57	071583	LNN	Dec.	1.4946	0.0925	-0.8618	081	---	---	21.8S	49.5E	14	04	2915	B.C.E.
02592	Aug	30	2915	B.C.E.	05:34:42	0656960.	7324341	-2915	Aug	31	01:27:45	071583	LNN	Dec.	-1.0960	0.8290	-0.1353	226	---	---	18.5S	82.2W	13	05	2915	B.C.E.
02593	Jan	25	2914	B.C.E.	10:30:38	0657108.	6323860	-2914	Jan	25	23:03:12	071553	LPU	Asc.	-0.8768	1.2895	0.2096	310	109	---	22.6N	43.8W	13	10	2914	B.C.E.
02594	Jul	21	2914	B.C.E.	12:12:31	0657286.	8006867	-2914	Jul	22	08:05:03	071553	LPU	Dec.	0.8296	1.3266	0.3448	280	122	---	23.2S	175.8E	14	04	2914	B.C.E.
02595	Jan	14	2913	B.C.E.	07:23:19	0657462.	8078544	-2913	Jan	15	03:15:23	071522	LTU	Asc.	-0.1269	2.6426	1.6081	349	223	098	23.9N	108.0W	13	10	2913	B.C.E.
02596	Jul	09	2913	B.C.E.	22:32:34	0657740.	4392791	-2913	Jul	10	18:24:33	071522	LTU	Dec.	0.0985	2.6944	1.6607	354	226	101	23.7S	19.9E	15	03	2913	B.C.E.
02597	Jan	02	2912	B.C.E.	18:42:07	0657817.	71292501	-2912	Jan	03	14:33:39	071491	LPU	Asc.	0.5830	1.7804	0.7961	304	173	---	24.3N	81.0E	13	09	2912	B.C.E.
02598	Jun	29	2912	B.C.E.	01:49:42	0657994.	5761804	-2912	Jun	29	21:41:13	071491	LPU	Dec.	-0.6711	1.6627	0.5913	338	174	---	23.4S	30.2W	14	03	2912	B.C.E.
02599	Nov	23	2912	B.C.E.	23:44:38	0658142.	4893240	-2912	Nov	24	19:36:09	071491	LNN	Asc.	-1.4256	0.2316	-0.7473	128	---	---	13.9N	3.3E	14	08	2912	B.C.E.
02600	Dec	23	2912	B.C.E.	10:13:04	0658171.	9257465	-2912	Dec	24	06:04:36	071491	LNN	Asc.	1.2367	0.5716	-0.3943	192	---	---	23.7N	153.1W	13	09	2912	B.C.E.
02601	May	19	2911	B.C.E.	12:40:36	0658319.	4281925	-2911	May	20	08:31:35	071460	LNN	Dec.	1.3831	0.3396	-0.6989	170	---	---	11.7S	168.2E	13	02	2911	B.C.E.
02602	Jun	18	2911	B.C.E.	02:17:16	0658348.	5953220	-2911	Jun	18	22:08:15	071460	LNN	Dec.	-1.4073	0.3077	-0.7555	167	---	---	22.1S	37.8W	14	03	2911	B.C.E.
02603	Nov	13	2911	B.C.E.	12:42:27	0658497.	0294838	-2911	Nov	14	08:33:27	071460	LPU	Asc.	-0.8051	1.3936	0.3682	293	132	---	10.8N	168.6E	14	08	2911	B.C.E.
02604	May	08	2910	B.C.E.	21:21:48	0658673.	3901369	-2910	May	09	17:12:18	071429	LPU	Dec.	0.5569	1.8282	0.8440	314	182	---	8.5S	38.5E	13	01	2910	B.C.E.
02605	Nov	02	2910	B.C.E.	19:00:17	0658851.	2918594	-2910	Nov	03	14:50:44	071429	LPU	Asc.	-0.1288	2.6634	1.5808	367	229	099	7.2N	74.1E	15	07	2910	B.C.E.
02606	Apr	27	2909	B.C.E.	12:22:47	0659028.	0158187	-2909	Apr	28	12:44:47	071399	LTU	Dec.	-0.2161	2.4334	1.4890	316	202	089	5.3S	174.0E	13	01	2909	B.C.E.
02607	Oct	21	2909	B.C.E.	18:54:02	0659205.	2875260	-2909	Oct	22	14:44:02	071399	LPU	Asc.	0.5560	1.8922	0.7844	356	194	---	3.1N	75.8E	14	07	2909	B.C.E.
02608	Apr	17	2908	B.C.E.	05:41:43	0659382.	7372996	-2908	Apr	18	01:31:11	071368	LPU	Dec.	-0.9534	1.0808	0.1359	251	061	---	1.9S	84.9W	14	01	2908	B.C.E.
02609	Oct	10	2908	B.C.E.	18:59:04	0659559.	2910243	-2908	Oct	11	14:48:32	071368	LNN	Asc.	1.2114	0.6753	-0.4040	235	---	---	1.0S	74.9E	13	07	2908	B.C.E.
02610	Mar	08	2907	B.C.E.	10:18:34	0659707.	9295571	-2907	Mar	09	06:07:30	071337	LPU	Dec.	0.8880	1.2388	0.2187	288	106	---	14.5N	149.5W	14	12	2907	B.C.E.
02611	Aug	31	2907	B.C.E.	13:39:56	0659884.	6964015	-2907	Sep	01	09:28:55	071338	LPU	Dec.	-0.9243	1.1554	0.1687	264	086	---	17.8S	156.7E	13	05	2907	B.C.E.
02612	Feb	25	2906	B.C.E.	14:56:42	0660062.	1227132	-2906	Feb	26	10:45:08	071307	LTU	Dec.	0.1500	2.6184	1.5479	370	232	100	17					

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
	Year	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Date and Time of Maximum Eclipse	(Delta T)	Pen.						Par.	Pen.	Par.	Pen.	Par.	Lat.	Lon.	Day	Month
02676	Oct	01	2880	B. C. E.	08:19:56	0669776.8471817	-2880	Oct 02 03:55:07	070509	LTU	Dec.	-0.4145	2.0987	1.0964	321	197	046	6.2S	124.2W	13	06	2880	B. C. E.
02677	Mar	28	2879	B. C. E.	08:33:36	0669954.8566687	-2879	Mar 29 04:08:15	070478	LNN	Asc.	1.1615	0.7556	-0.3013	248	---	---	7.6N	124.8W	14	12	2879	B. C. E.
02678	Sep	20	2879	B. C. E.	22:59:50	0670131.4582218	-2879	Sep 21 18:34:28	070478	LNN	Asc.	-1.0655	0.8870	-0.0811	232	---	---	11.0S	16.4E	14	06	2879	B. C. E.
02679	Feb	15	2878	B. C. E.	17:47:36	0670279.2413851	-2878	Feb 16 13:21:43	070447	LPU	Asc.	-0.9673	1.1178	0.0493	292	054	---	18.8N	98.1E	14	11	2878	B. C. E.
02680	Aug	12	2878	B. C. E.	04:08:05	0670456.6722784	-2878	Aug 12 23:42:11	070447	LPU	Asc.	0.9176	1.1715	0.1773	270	091	---	20.8S	61.6W	14	05	2878	B. C. E.
02681	Feb	04	2877	B. C. E.	23:10:42	0670633.4657586	-2877	Feb 05 18:44:20	070416	LTU	Asc.	-0.1949	2.5110	1.4901	344	219	093	21.8N	17.0E	13	11	2877	B. C. E.
02682	Jul	31	2877	B. C. E.	13:18:11	0670811.0542893	-2877	Aug 01 08:51:45	070416	LTU	Asc.	0.2071	2.5018	1.4548	356	223	093	23.1S	160.2E	14	04	2877	B. C. E.
02683	Jan	24	2876	B. C. E.	11:29:50	0670987.9790565	-2876	Jan 25 07:02:57	070386	LPU	Asc.	0.5299	1.8725	0.8988	306	179	---	23.9N	168.6W	13	10	2876	B. C. E.
02684	Jul	20	2876	B. C. E.	15:35:17	0671165.1494978	-2876	Jul 21 11:08:22	070386	LPU	Asc.	-0.5405	1.9067	0.8266	353	197	---	24.5S	125.0E	14	04	2876	B. C. E.
02685	Dec	15	2876	B. C. E.	17:32:54	0671313.2311855	-2876	Dec 16 13:06:01	070386	LNN	Asc.	-1.4394	0.2063	-0.7724	121	---	---	19.8N	97.1E	15	09	2876	B. C. E.
02686	Jan	14	2875	B. C. E.	03:31:40	0671342.6469869	-2875	Jan 14 23:04:14	070355	LNN	Asc.	1.2016	0.6335	-0.3275	201	---	---	25.2N	50.2W	14	10	2875	B. C. E.
02687	Jun	10	2875	B. C. E.	02:14:36	0671489.5934753	-2875	Jun 10 21:47:11	070355	LNN	Dec.	1.5326	0.0635	-0.9712	075	---	---	17.8S	36.2W	13	03	2875	B. C. E.
02688	Jul	09	2875	B. C. E.	15:57:13	0671519.1647383	-2875	Jul 10 11:29:48	070355	LNN	Dec.	-1.2620	0.5750	-0.4896	221	---	---	24.9S	118.5E	13	04	2875	B. C. E.
02689	Dec	05	2875	B. C. E.	06:06:19	0671667.7543854	-2875	Dec 06 01:38:54	070356	LPU	Asc.	-0.8126	1.3818	0.3526	295	130	---	17.9N	92.1W	14	09	2875	B. C. E.
02690	May	30	2874	B. C. E.	11:40:51	0671843.9926173	-2874	May 31 07:21:28	070325	LPU	Asc.	0.7069	1.5502	0.5715	297	154	---	15.6S	179.9W	13	02	2874	B. C. E.
02691	Nov	24	2874	B. C. E.	11:40:51	0672021.9867062	-2874	Nov 25 07:12:55	070325	LTU	Asc.	-0.1331	2.6573	1.5710	369	229	099	15.2N	176.4W	14	08	2874	B. C. E.
02692	May	19	2873	B. C. E.	11:40:51	0672198.6399765	-2873	May 19 22:53:09	070295	LPU	Asc.	-0.0628	2.7136	1.7714	318	205	099	13.0S	52.6W	14	02	2873	B. C. E.
02693	Nov	12	2873	B. C. E.	11:14:25	0672375.9683418	-2873	Nov 13 06:46:00	070295	LPU	Asc.	0.5502	1.9028	0.7952	356	195	---	11.8N	170.0W	13	08	2873	B. C. E.
02694	May	08	2872	B. C. E.	20:38:17	0672553.3599242	-2872	May 09 16:09:21	070264	LPU	Asc.	-0.8059	1.3528	0.4053	273	122	---	10.0S	48.7E	15	01	2872	B. C. E.
02695	Nov	01	2872	B. C. E.	11:44:26	0672729.9891858	-2872	Nov 02 07:15:30	070264	LNN	Asc.	1.2014	0.6919	-0.3838	237	---	---	8.0N	177.6W	12	07	2872	B. C. E.
02696	Mar	30	2871	B. C. E.	00:37:01	0672888.9257062	-2871	Mar 30 20:07:34	070233	LNN	Dec.	1.0337	0.9726	-0.0498	264	---	---	6.8N	5.7W	15	12	2871	B. C. E.
02697	Sep	22	2871	B. C. E.	06:54:25	0673054.7877914	-2871	Sep 23 02:24:59	070233	LPU	Asc.	-0.9491	1.1101	0.1230	259	072	---	10.3S	102.1W	13	06	2871	B. C. E.
02698	Mar	19	2870	B. C. E.	04:37:05	0673232.6924151	-2870	Mar 20 00:07:07	070203	LTU	Asc.	0.2923	2.3561	1.2880	366	225	081	10.3N	65.0W	14	12	2870	B. C. E.
02699	Sep	11	2870	B. C. E.	22:24:25	0673409.4362222	-2870	Sep 12 17:54:28	070203	LTU	Asc.	-0.2600	2.3635	1.3980	315	200	082	13.5S	25.3E	14	06	2870	B. C. E.
02700	Mar	07	2869	B. C. E.	04:58:49	0673586.7075162	-2869	Mar 08 00:28:22	070172	LTU	Asc.	-0.4594	2.0501	0.9806	356	208	---	13.5N	70.1W	13	12	2869	B. C. E.
02701	Aug	31	2869	B. C. E.	13:38:44	0673764.0685670	-2869	Sep 01 09:08:15	070172	LTU	Asc.	0.4339	2.0563	1.0673	317	193	039	16.3S	156.4E	14	05	2869	B. C. E.
02702	Jan	25	2868	B. C. E.	21:12:21	0673911.3835787	-2868	Jan 26 16:41:23	070141	LNN	Dec.	1.5451	0.0265	-0.9804	046	---	---	24.7N	46.2E	13	10	2868	B. C. E.
02703	Feb	24	2868	B. C. E.	09:05:39	0673940.8792776	-2868	Feb 25 04:34:41	070141	LNN	Dec.	-1.1779	0.7105	-0.3168	232	---	---	16.3N	131.7W	13	11	2868	B. C. E.
02704	Aug	21	2868	B. C. E.	00:07:11	0674111.5049849	-2868	Aug 21 19:36:11	070141	LNN	Asc.	1.1976	0.6810	-0.3595	228	---	---	18.6S	1.2W	15	05	2868	B. C. E.
02705	Jan	15	2867	B. C. E.	10:54:54	0674265.9547934	-2867	Jan 16 06:23:26	070111	LPU	Asc.	0.7949	1.3830	0.4157	276	127	---	24.8N	160.6W	13	10	2867	B. C. E.
02706	Jul	11	2867	B. C. E.	10:56:17	0674442.9557571	-2867	Jul 12 06:24:48	070111	LPU	Asc.	-0.9451	1.1637	0.0847	301	071	---	24.7S	165.9W	14	04	2867	B. C. E.
02707	Jan	05	2866	B. C. E.	03:03:45	0674620.6276037	-2866	Jan 05 22:31:45	070081	LTU	Dec.	0.1091	2.6418	1.6736	320	207	096	23.9N	44.1W	14	10	2866	B. C. E.
02708	Jun	30	2866	B. C. E.	12:15:53	0674797.0110248	-2866	Jul 01 07:43:56	070081	LTU	Asc.	-0.1858	2.5425	1.4921	361	227	096	23.1S	163.5E	13	03	2866	B. C. E.
02709	Dec	25	2866	B. C. E.	16:57:00	0674975.2062500	-2866	Dec 26 12:25:00	070081	LPU	Asc.	-0.6009	0.7612	0.7498	312	176	---	22.2N	106.5E	15	09	2866	B. C. E.
02710	Jun	18	2865	B. C. E.	20:04:19	0675151.3363345	-2865	Jun 19 15:31:50	070050	LPU	Asc.	0.5780	1.7943	0.8006	315	181	---	20.7S	50.0E	13	03	2865	B. C. E.
02711	Dec	14	2865	B. C. E.	00:27:45	0675329.5192714	-2865	Dec 14 19:55:16	070050	LNN	Dec.	-1.3563	0.4053	-0.6657	186	---	---	19.6N	7.0W	15	09	2865	B. C. E.
02712	May	10	2864	B. C. E.	03:53:01	0675476.6618156	-2864	May 10 23:20:01	070020	LNN	Asc.	-1.2111	0.6049	-0.3337	196	---	---	11.0S	60.1W	14	01	2864	B. C. E.
02713	Jun	08	2864	B. C. E.	10:32:15	0675505.9390616	-2864	Jun 09 05:59:15	070020	LNN	Asc.	1.2822	0.4794	-0.4693	178	---	---	17.6S	160.9W	13	02	2864	B. C. E.
02714	Nov	03	2864	B. C. E.	05:34:00	0675653.7319448	-2864	Nov 04 01:01:01	070020	LNT	Dec.	0.9945	1.0855	-0.0178	294	---	---	8.6N	84.8W	13	07	2864	B. C. E.
02715	Apr	29	2863	B. C. E.	20:49:42	0675831.3678513	-2863	Apr 30 16:16:10	069999	LPU	Asc.	-0.4931	1.9316	0.9745	308	183	---	6.4S	47.0E	15	01	2863	B. C. E.
02716	Oct	23	2863	B. C. E.	07:41:11	0676007.8020654	-2863	Oct 24 03:07:42	069999	LPU	Asc.	0.2858	2.3635	1.3042	351	217	079	3.5N	115.9W	13	07	2863	B. C. E.
02717	Apr	29	2862	B. C. E.	09:35:56	0676185.8999517	-2862	Apr 30 05:01:53	069959	LTU	Asc.	0.2783	2.3513	1.3435	341	216	083	1.6S	143.1W	14	01	2862	B. C. E.
02718	Oct	12	2862	B. C. E.	17:08:46	0676362.2144161	-2862	Oct 13 12:34:46	069959	LPU	Asc.	-0.4122	2.1023	1.1010	320	091	047	1.7S	103.0E	13	07	2862	B. C. E.
02719	Apr	07	2861	B. C. E.	05:12:42	0676540.1333589	-2861	Apr 08 10:37:30	069928	LNN	Asc.	1.0848	0.8966	-0.1608	267	---	---	3.4N	134.4E	14	13	2861	B. C. E.
02720	Oct	01	2861	B. C. E.	17:52:07	0676716.3282550	-2861	Oct 02 03:18:15	069928	LNN	Dec.	-1.0588	0.9000	-0.0698	233	---	---	6.7N	117.3W	13	06	2861	B. C. E.
02721	Feb	26	2860	B. C. E.	00:54:08	0676864.5375877	-2860	Feb 26 20:19:05	069897	LNT</													

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
			Julian Date (UT)	Date (UT)								Pen.	Par.	Pen.	Tot.	Lat.	Lon.	Day	Month	Year
02783	Mar 28 2833 B.C.E.	18:26:33	0686757.2684326	-2833	Mar 29 13:37:52	069078	LTU	Dec.	-0.3059	2.3273	1.2668	363	223	078	5.9N	86.4E	14	12	2833	B.C.E.
02784	Sep 22 2833 B.C.E.	06:44:58	0686934.7812215	-2833	Sep 23 01:56:14	069078	LTU	Asc.	0.4052	2.1143	1.1146	321	198	050	8.8S	100.5W	14	06	2833	B.C.E.
02785	Mar 17 2832 B.C.E.	23:39:49	0687111.4859801	-2832	Mar 18 15:50:37	069048	LNN	Dec.	-1.0454	0.9472	-0.0673	259	---	---	9.3N	8.7E	13	12	2832	B.C.E.
02786	Sep 11 2832 B.C.E.	16:09:45	0687289.1734327	-2832	Sep 12 11:20:32	069048	LNN	Asc.	1.1563	0.7633	-0.2901	242	---	---	12.1S	118.3E	14	06	2832	B.C.E.
02787	Feb 06 2831 B.C.E.	03:33:04	0687436.6479601	-2831	Feb 06 22:43:21	069017	LPU	Dec.	0.8587	1.2616	0.3031	266	107	---	22.4N	48.2W	13	11	2831	B.C.E.
02788	Aug 02 2831 B.C.E.	00:58:46	0687613.5408136	-2831	Aug 02 20:09:03	069017	LNN	Asc.	-1.0589	0.9583	-0.1271	280	---	---	24.0S	14.6W	14	04	2831	B.C.E.
02789	Jan 26 2830 B.C.E.	20:00:21	0687791.3335708	-2830	Jan 27 15:10:06	068987	LTU	Dec.	0.1618	2.5434	1.5785	320	206	093	23.3N	64.0E	14	10	2830	B.C.E.
02790	Jul 22 2830 B.C.E.	02:33:28	0687967.6065691	-2830	Jul 22 21:43:17	068987	LTU	Asc.	-0.3081	2.3183	1.2677	355	219	077	24.2S	39.3W	13	04	2830	B.C.E.
02791	Jan 16 2829 B.C.E.	09:40:57	0688145.9034319	-2829	Jan 17 04:50:11	068956	LPU	Dec.	-0.5663	1.8250	0.8131	317	182	---	23.4N	142.3W	14	10	2829	B.C.E.
02792	Jul 10 2829 B.C.E.	11:03:17	0688321.9606186	-2829	Jul 11 06:12:35	068956	LTU	Asc.	0.4498	2.0286	1.0366	322	196	029	23.4S	167.7W	13	04	2829	B.C.E.
02793	Jan 04 2828 B.C.E.	16:36:55	0688500.1923012	-2828	Jan 05 11:45:41	068926	LNN	Dec.	-1.3323	0.4485	-0.6223	196	---	---	22.6N	112.6E	15	10	2828	B.C.E.
02794	May 31 2828 B.C.E.	18:58:25	0688647.2905696	-2828	Jun 01 14:07:11	068926	LNN	Asc.	-1.3520	0.3471	-0.5929	152	---	---	18.2S	72.2E	14	02	2828	B.C.E.
02795	Jun 30 2828 B.C.E.	01:54:29	0688676.5794980	-2828	Jun 30 21:03:15	068926	LNN	Asc.	1.1520	0.7190	-0.2309	213	---	---	21.8S	31.1W	14	03	2828	B.C.E.
02796	Nov 24 2828 B.C.E.	21:58:15	0688824.5144993	-2828	Nov 25 17:07:02	068926	LNT	Dec.	0.9939	1.0846	-0.0147	293	---	---	16.6N	29.0E	13	08	2828	B.C.E.
02797	May 21 2827 B.C.E.	11:34:15	0689001.9821179	-2827	May 22 06:42:30	068896	LPU	Asc.	-0.6463	1.6534	0.6906	297	162	---	14.3S	176.1W	14	02	2827	B.C.E.
02798	Nov 14 2827 B.C.E.	00:48:31	0689178.5336947	-2827	Nov 14 19:56:50	068897	LTU	Dec.	0.2790	2.3730	1.3197	349	216	081	12.1N	13.5W	13	08	2827	B.C.E.
02799	May 10 2826 B.C.E.	23:30:39	0689309.4766179	-2826	May 11 18:38:23	068866	LPU	Asc.	0.1200	2.6452	1.6308	349	224	100	9.9S	5.9E	15	01	2826	B.C.E.
02800	Nov 03 2826 B.C.E.	10:56:43	0689532.9560545	-2826	Nov 04 06:04:30	068866	LTU	Dec.	-0.4151	2.0952	1.0975	318	196	046	7.3N	165.1W	13	07	2826	B.C.E.
02801	Apr 29 2825 B.C.E.	04:14:16	0689195.6765760	-2825	Apr 29 23:21:33	068836	LPU	Asc.	0.9204	1.1993	0.1397	301	090	---	5.2S	63.7W	14	01	2825	B.C.E.
02802	Oct 23 2825 B.C.E.	01:52:50	0689887.5783591	-2825	Oct 23 21:00:06	068836	LNN	Dec.	-1.0577	0.9030	-0.0687	234	---	---	2.4N	28.4E	14	07	2825	B.C.E.
02803	Mar 19 2824 B.C.E.	14:46:31	0690035.1156413	-2824	Mar 20 09:53:17	068806	LNN	Asc.	-1.1504	0.7732	-0.2782	249	---	---	8.6N	142.1E	13	12	2824	B.C.E.
02804	Sep 13 2824 B.C.E.	04:58:25	0690212.7072330	-2824	Sep 14 00:05:11	068806	LPU	Dec.	0.9952	1.0383	0.0257	261	036	---	11.6S	73.6W	14	06	2824	B.C.E.
02805	Mar 08 2823 B.C.E.	21:56:32	0690389.4125337	-2823	Mar 09 17:02:49	068775	LTU	Asc.	-0.3483	2.2194	1.2184	332	208	068	13.1N	35.5E	13	12	2823	B.C.E.
02806	Sep 02 2823 B.C.E.	12:25:29	0690567.0176927	-2823	Sep 03 07:31:42	068775	LTU	Dec.	0.3128	2.3176	1.2511	357	218	075	15.9S	174.9E	14	05	2823	B.C.E.
02807	Feb 26 2822 B.C.E.	11:43:50	0690743.9887704	-2822	Feb 27 06:49:36	068745	LTU	Asc.	0.3997	2.1037	1.1451	311	191	055	17.1N	170.7W	13	11	2822	B.C.E.
02808	Aug 22 2822 B.C.E.	13:19:43	0690921.0552384	-2822	Aug 23 08:25:17	068745	LTU	Dec.	-0.4000	2.1710	1.0781	365	215	045	19.7S	161.2E	13	05	2822	B.C.E.
02809	Jan 17 2821 B.C.E.	19:24:47	0691069.3088768	-2821	Jan 18 14:30:01	068715	LNN	Asc.	-1.4991	0.0956	-0.8809	084	---	---	22.4N	72.1E	15	10	2821	B.C.E.
02810	Feb 16 2821 B.C.E.	04:26:34	0691098.6851133	-2821	Feb 16 23:31:49	068715	LNN	Asc.	1.1017	0.8134	-0.1406	224	---	---	20.7N	61.3W	14	11	2821	B.C.E.
02811	Aug 10 2821 B.C.E.	13:41:31	0691275.0749668	-2821	Aug 11 08:46:46	068715	LNN	Dec.	-1.0972	0.8790	-0.1887	264	---	---	22.8S	155.2E	13	05	2821	B.C.E.
02812	Jan 06 2820 B.C.E.	07:24:13	0691423.8084784	-2820	Jan 07 02:28:56	068684	LPU	Asc.	-0.8573	1.3008	0.2694	291	116	---	23.1N	108.9W	14	10	2820	B.C.E.
02813	Jul 01 2820 B.C.E.	10:10:35	0691599.9240174	-2820	Jul 02 05:15:20	068684	LPU	Dec.	0.9047	1.1854	0.2103	268	093	---	22.3S	154.9W	13	03	2820	B.C.E.
02814	Dec 26 2820 B.C.E.	12:04:19	0691778.0030034	-2820	Dec 27 07:09:02	068684	LTU	Asc.	-0.1646	2.5995	1.5132	370	230	097	22.9N	179.8E	14	09	2820	B.C.E.
02815	Jun 21 2819 B.C.E.	02:10:14	0691954.5904341	-2819	Jun 21 21:14:28	068654	LTU	Dec.	0.1516	2.5517	1.6076	316	203	094	21.5S	35.4W	14	03	2819	B.C.E.
02816	Dec 15 2819 B.C.E.	11:28:28	0692131.9780989	-2819	Dec 16 06:32:43	068655	LPU	Asc.	0.5276	1.9410	0.8399	357	198	---	21.6N	172.5W	13	09	2819	B.C.E.
02817	Jun 10 2818 B.C.E.	19:04:15	0692309.2946152	-2818	Jun 11 14:07:59	068625	LPU	Dec.	-0.5892	1.7550	0.7985	299	169	---	20.0S	70.7E	15	02	2818	B.C.E.
02818	Dec 04 2818 B.C.E.	12:59:16	0692486.0411531	-2818	Dec 05 08:03:01	068625	LNN	Asc.	1.1868	0.7130	-0.3515	237	---	---	19.5N	163.9E	12	08	2818	B.C.E.
02819	Apr 30 2817 B.C.E.	21:14:40	0692624.3851896	-2817	May 01 16:17:54	068594	LNN	Dec.	-1.2840	0.5171	-0.5125	204	---	---	5.6S	41.1E	15	01	2817	B.C.E.
02820	May 30 2817 B.C.E.	08:14:04	0692663.8431025	-2817	May 31 03:17:18	068594	LNN	Dec.	-1.3958	0.2985	-0.7048	153	---	---	17.8S	126.9W	14	02	2817	B.C.E.
02821	Oct 24 2817 B.C.E.	09:33:33	0692810.8983037	-2817	Oct 25 04:36:48	068594	LPU	Asc.	-0.9535	1.1012	0.1157	257	069	---	3.2N	143.6W	13	07	2817	B.C.E.
02822	Apr 20 2816 B.C.E.	00:14:00	0692988.5097201	-2816	Apr 20 19:16:43	068564	LPU	Dec.	0.5462	1.8893	0.8228	351	197	---	2.0S	2.6W	14	01	2816	B.C.E.
02823	Oct 14 2816 B.C.E.	01:02:44	0693165.5435661	-2816	Oct 14 20:05:28	068564	LTU	Asc.	-0.2842	2.3227	1.3502	315	199	079	0.6S	15.6W	14	07	2816	B.C.E.
02824	Apr 09 2815 B.C.E.	01:02:58	0693342.5437272	-2815	Apr 09 20:05:14	068534	LTU	Dec.	-0.2219	2.4794	1.4228	365	228	092	1.8N	13.9W	13	13	2815	B.C.E.
02825	Oct 03 2815 B.C.E.	15:26:59	0693520.1437343	-2815	Oct 04 10:29:11	068534	LTU	Asc.	0.3992	2.1277	1.1233	323	199	052	4.4S	328.5E	14	06	2815	B.C.E.
02826	Mar 29 2814 B.C.E.	06:49:29	0693696.7843681	-2814	Mar 30 01:51:13	068503	LPU	Dec.	-0.9712	1.0805	0.0716	271	062	---	5.3N	99.7W	13	12	2814	B.C.E.
02827	Sep 23 2814 B.C.E.	00:22:14	0693874.5154409	-2814	Sep 23 19:23:56	068503	LNN	Asc.	-1.9458	0.7855	-0.2738	246	---	---	8.1S	5.1W	14	06	2814	B.C.E.
02828	Feb 17 2813 B.C.E.	11:40:24	0694021.9863862	-2813	Feb 18 06:41:37	068473	LPU	Dec.	0.9010	1.8167	0.2274	259	090	---	20.1N	169.6W	13	11	2813	B.C.E.
02829	Aug 12 2813 B.C.E.	08:14:06	0694198.8431275	-2813	Aug 13 03:15:19	068473	LNN	Asc.	-1.1044	0.8763	-0.2122	270	---	---	22.4S	122.6W	14	05	2813	B.C.E.
02830	Feb 06 2812 B.C.E.	04:15:44	0694376.7575953	-2812	Feb 06 23:16:26	068443	LTU	Dec.	0.1987	2.4750	1.5116	319	204	090	21.7N	59.1W	14	11	2812	B.C.E.
02831	Aug 01 2812 B.C.E.	09:58:08	0694552.9153703	-2812	Aug 02 04:58:53	068443	LTU	Asc.	-0.3578	2.2272	1.1763	351	214	064	23.4S	149.6W	13	04	2812	B.C.E.
02832	Jan 26 2811 B.C.E.	17:47:36	0694731.2413870																	

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Month	Day	Time	Year	Year								Pen.	Par.	Lat.	Lon.	Day	Month	Year						
02890	Mar	20	27:86	B.C.E.	03:18:44	0703914.6380039	-2786	Mar	20	22:06:26	067662	LTU	Asc.	0.2824	2.3147	1.3645	315	199	081	9.7N	45.6W	13	12	2786	B.C.E.
02891	Sep	13	27:86	B.C.E.	04:36:19	0704091.6918882	-2786	Sep	13	23:24:02	067663	LTU	Dec.	-0.3461	2.2733	1.1735	370	220	065	12.9S	67.8W	14	06	2786	B.C.E.
02892	Mar	08	27:85	B.C.E.	20:20:04	0704269.3472677	-2785	Mar	09	15:07:16	067662	LPN	Asc.	1.0026	0.9937	0.0428	243	045	---	14.1N	60.0E	14	12	2785	B.C.E.
02893	Sep	01	27:85	B.C.E.	05:06:07	0704445.7125774	-2785	Sep	01	23:53:19	067662	LNT	Dec.	-1.0283	1.0064	-0.0630	277	---	---	17.3S	75.1W	13	05	2785	B.C.E.
02894	Jan	27	27:84	B.C.E.	23:28:24	0704594.4780499	-2784	Jan	28	18:15:05	067660	LPU	Asc.	-0.9203	1.1852	0.1537	284	090	---	22.0N	12.1E	15	10	2784	B.C.E.
02895	Jul	23	27:84	B.C.E.	01:43:43	0704770.5720278	-2784	Jul	23	20:30:26	067660	LPN	Dec.	1.0073	0.9972	0.0221	249	033	---	22.8S	26.7W	13	04	2784	B.C.E.
02896	Jan	17	27:83	B.C.E.	03:37:35	0704948.6511048	-2783	Jan	17	22:23:46	067572	LTU	Asc.	-0.2167	2.5027	1.4190	370	228	092	23.7N	51.2W	14	10	2783	B.C.E.
02897	Jul	12	27:83	B.C.E.	17:49:49	0705125.2429226	-2783	Jul	13	12:36:00	067572	LTU	Dec.	0.2714	2.3339	1.3856	313	198	082	23.7S	90.9E	14	04	2783	B.C.E.
02898	Jan	06	27:82	B.C.E.	03:08:57	0705302.6312158	-2782	Jan	06	21:54:40	067542	LPU	Asc.	0.4877	2.0100	0.9170	358	204	---	24.3N	45.4W	13	10	2782	B.C.E.
02899	Jul	02	27:82	B.C.E.	10:15:42	0705479.9275744	-2782	Jul	03	05:01:23	067542	LTU	Dec.	-0.4596	1.9973	1.0317	311	188	027	23.7S	156.4W	14	03	2782	B.C.E.
02900	Dec	26	27:82	B.C.E.	05:33:48	0705656.7318073	-2782	Dec	27	00:19:30	067542	LNN	Asc.	1.1510	0.7549	-0.2988	241	---	---	24.0N	83.0W	13	09	2782	B.C.E.
02901	May	22	27:81	B.C.E.	10:42:44	0705804.9463416	-2781	May	23	05:27:56	067512	LNN	Dec.	-1.4574	0.2026	-0.8343	133	---	---	13.0S	162.5W	14	02	2781	B.C.E.
02902	Jun	20	27:81	B.C.E.	22:27:06	0705834.4354857	-2781	Jun	21	17:12:17	067512	LNN	Dec.	-1.2597	0.5538	-0.4605	206	---	---	22.9S	20.0E	15	03	2781	B.C.E.
02903	Nov	15	27:81	B.C.E.	03:33:14	0705981.6480825	-2781	Nov	15	22:18:26	067512	LPU	Asc.	-0.9483	1.1089	0.1268	256	071	---	11.7N	54.2W	13	08	2781	B.C.E.
02904	May	11	27:80	B.C.E.	13:01:15	0706159.0425368	-2780	May	11	05:45:57	067482	LPU	Asc.	-0.7268	1.5584	0.4911	332	161	---	9.9S	163.4E	14	02	2780	B.C.E.
02905	Nov	04	27:80	B.C.E.	19:07:01	0706336.2965394	-2780	Nov	05	13:51:42	067482	LTU	Asc.	-0.2842	2.3241	1.3488	315	200	079	8.3N	72.3E	14	08	2780	B.C.E.
02906	Apr	30	27:79	B.C.E.	14:11:24	0706513.9512527	-2779	Apr	30	08:55:38	067452	LTU	Dec.	-0.0479	2.7953	1.7456	366	233	105	6.5S	146.6E	13	01	2779	B.C.E.
02907	Oct	25	27:79	B.C.E.	09:01:58	0706690.8763647	-2779	Oct	26	03:46:08	067452	LTU	Asc.	0.3983	2.1336	1.1210	326	200	051	4.6N	136.4W	14	07	2779	B.C.E.
02908	Apr	19	27:78	B.C.E.	21:02:03	0706867.3764258	-2778	Apr	20	15:45:46	067422	LPU	Dec.	-0.8134	1.4649	0.3662	292	133	---	3.0S	44.8E	13	01	2778	B.C.E.
02909	Oct	14	27:78	B.C.E.	17:01:12	0707045.2091610	-2778	Oct	15	11:44:54	067423	LNN	Asc.	1.1375	0.8059	-0.2633	251	---	---	0.7N	104.0E	15	07	2778	B.C.E.
02910	Mar	10	27:77	B.C.E.	03:31:54	0707192.6471544	-2777	Mar	10	22:15:07	067393	LNN	Dec.	-1.0063	0.9849	-0.0379	241	042	---	13.6N	47.9W	14	12	2777	B.C.E.
02911	Apr	08	27:77	B.C.E.	10:44:06	0707221.9472876	-2777	Apr	09	05:27:18	067393	LNN	Dec.	-1.5080	0.0671	-0.8855	070	---	---	0.5N	159.8W	13	13	2777	B.C.E.
02912	Sep	02	27:77	B.C.E.	23:17:13	0707369.4702857	-2777	Sep	03	18:00:26	067393	LNN	Asc.	-1.1704	0.7581	-0.3360	254	---	---	16.8S	12.4E	14	05	2777	B.C.E.
02913	Feb	27	27:76	B.C.E.	20:18:11	0707547.3459634	-2776	Feb	28	15:00:53	067363	LTU	Dec.	0.2956	2.2961	1.3349	317	200	078	16.3N	60.7E	15	11	2776	B.C.E.
02914	Aug	23	27:76	B.C.E.	01:20:15	0707723.5557261	-2776	Aug	23	03:00:03	067363	LTU	Asc.	-0.4334	2.0889	1.0373	345	205	031	19.4S	18.8W	13	05	2776	B.C.E.
02915	Feb	17	27:75	B.C.E.	09:29:13	0707901.8952923	-2775	Feb	18	04:11:25	067333	LTU	Dec.	-0.4562	2.0271	1.0150	329	198	019	18.6N	137.3W	14	11	2775	B.C.E.
02916	Aug	12	27:75	B.C.E.	10:42:40	0708077.9426297	-2775	Aug	13	04:24:55	067333	LTU	Asc.	0.3084	2.2882	1.2962	327	206	076	21.1S	160.2W	13	05	2775	B.C.E.
02917	Feb	06	27:74	B.C.E.	15:33:52	0708256.1485210	-2774	Feb	07	10:15:35	067303	LNN	Dec.	-1.2399	0.6173	-0.4508	228	---	---	20.4N	131.0E	15	11	2774	B.C.E.
02918	Jul	03	27:74	B.C.E.	18:02:51	0708403.2519802	-2774	Jul	04	12:44:34	067303	LNN	Asc.	-1.5415	0.0228	-0.9440	014	---	---	24.9S	87.0E	14	03	2774	B.C.E.
02919	Aug	02	27:74	B.C.E.	01:50:54	0708432.5770176	-2774	Aug	02	20:32:38	067303	LPU	Asc.	0.9974	1.0054	0.0501	244	016	---	22.1S	28.1E	14	04	2774	B.C.E.
02920	Dec	27	27:74	B.C.E.	22:08:21	0708580.4224644	-2774	Dec	28	16:50:04	067303	LNT	Dec.	1.0172	1.0357	-0.0516	286	---	---	24.1N	28.8W	13	09	2774	B.C.E.
02921	Jun	22	27:73	B.C.E.	09:48:49	0708757.9088980	-2773	Jun	23	04:30:01	067273	LPU	Asc.	-0.8636	1.2615	0.2853	275	110	---	22.8S	150.1W	14	03	2773	B.C.E.
02922	Dec	16	27:73	B.C.E.	02:21:11	0708934.9590450	-2773	Dec	16	21:02:26	067273	LTU	Dec.	0.2821	2.3601	1.3209	344	214	080	21.7N	35.4W	13	09	2773	B.C.E.
02923	Jun	11	27:72	B.C.E.	20:13:32	0709112.3427316	-2772	Jun	12	14:54:13	067243	LTU	Asc.	-0.1174	2.6571	1.6284	354	226	101	19.9S	53.6E	15	03	2772	B.C.E.
02924	Dec	05	27:72	B.C.E.	13:40:39	0709289.0698974	-2772	Dec	06	08:21:23	067243	LTU	Dec.	-0.4168	2.0874	1.0990	315	193	046	18.5N	154.1E	13	09	2772	B.C.E.
02925	May	31	27:71	B.C.E.	23:35:16	0709466.4882846	-2771	Jun	01	18:15:28	067213	LPU	Asc.	0.6647	1.6717	0.6056	338	175	---	16.4S	3.4E	14	02	2771	B.C.E.
02926	Nov	25	27:71	B.C.E.	05:01:47	0709643.7095676	-2771	Nov	25	23:41:59	067213	LNN	Dec.	-1.0646	0.8903	-0.0810	232	---	---	14.8N	76.4W	14	08	2771	B.C.E.
02927	Apr	21	27:70	B.C.E.	11:03:46	0709790.9609438	-2770	Apr	22	05:43:29	067183	LNN	Asc.	-1.3700	0.3631	-0.6740	175	---	---	4.1S	165.8W	13	01	2770	B.C.E.
02928	May	21	27:70	B.C.E.	00:18:08	0709820.5125928	-2770	May	21	18:57:52	067183	LNN	Asc.	1.4096	0.3007	-0.7569	164	---	---	12.3S	6.5W	14	02	2770	B.C.E.
02929	Oct	16	27:70	B.C.E.	06:43:53	0709968.7804776	-2770	Oct	17	01:23:36	067183	LNT	Dec.	1.0201	1.0005	-0.0275	261	---	---	1.4N	101.5W	14	07	2770	B.C.E.
02930	Apr	09	27:69	B.C.E.	19:55:08	0710145.3299523	-2769	Apr	10	14:34:23	067154	LPU	Asc.	-0.5482	1.8441	0.8600	314	183	---	0.8N	62.8E	13	13	2769	B.C.E.
02931	Oct	04	27:69	B.C.E.	12:37:46	0710323.0262234	-2769	Oct	05	07:16:58	067154	LTU	Dec.	0.3561	2.2462	1.1637	359	216	062	3.8S	170.8E	14	06	2769	B.C.E.
02932	Mar	30	27:68	B.C.E.	10:56:36	0710499.9559670	-2768	Mar	31	05:35:20	067124	LTU	Dec.	0.2153	2.4361	1.4893	316	202	089	5.6N	161.1W	13	12	2768	B.C.E.
02933	Sep	23	27:68	B.C.E.	12:28:10	0710677.0195578	-2768	Sep	24	07:06:54	067124	LTU	Dec.	-0.3304	2.3035	1.2010	371	222	069	8.9S	173.9E	13	06	2768	B.C.E.
02934	Mar	20	27:67	B.C.E.	04:04:46	0710854.6699793	-2767	Mar	20	22:43:00	067094	LPU	Asc.												

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Month	Day	Hour:Min:Sec	Year	Day								Pen.	Par.	Lat.	Lon.	Day	Month	Year						
02997	Mar	11	27:39	B.C.E.	00:29:21	0721072.5203852	-2739	Mar	11	18:53:40	066261	LTU	Dec.	-0.3438	2.2338	1.2206	338	211	069	12.2N	2.9W	15	12	2739	B.C.E.
02998	Sep	03	27:39	B.C.E.	03:17:55	0721248.6374426	-2739	Sep	03	21:42:18	066261	LTU	Asc.	0.2505	2.3947	1.4022	327	209	085	15.6S	48.3W	13	05	2739	B.C.E.
02999	Feb	28	27:39	B.C.E.	05:57:40	0721426.7483805	-2738	Mar	01	00:21:32	066232	LNN	Dec.	-1.1366	0.8058	-0.2601	256	---	---	15.1N	84.8W	14	11	2738	B.C.E.
03000	Aug	23	27:38	B.C.E.	18:30:12	0721603.2709759	-2738	Aug	24	12:54:05	066232	LPU	Asc.	0.9273	1.1364	0.1762	255	078	---	18.0S	83.2E	14	05	2738	B.C.E.
03001	Jan	18	27:37	B.C.E.	13:41:06	0721751.0702106	-2737	Jan	19	08:04:29	066202	LNN	Dec.	1.0634	0.9455	-0.1310	274	---	---	24.8N	158.2E	13	10	2737	B.C.E.
03002	Jul	14	27:37	B.C.E.	00:58:05	0721928.5403402	-2737	Jul	14	19:21:27	066202	LPU	Asc.	-0.9881	1.0387	0.0511	258	044	---	25.0S	16.0W	15	04	2737	B.C.E.
03003	Jan	06	27:36	B.C.E.	18:59:27	0722105.2912855	-2736	Jan	07	13:22:22	066173	LTU	Dec.	0.3091	2.3045	1.2774	339	212	075	24.2N	77.2E	13	10	2736	B.C.E.
03004	Jul	03	27:36	B.C.E.	10:13:52	0722282.9262941	-2736	Jul	04	04:36:43	066173	LTU	Asc.	-0.2611	2.3993	1.3591	354	221	086	23.6S	155.8W	14	03	2736	B.C.E.
03005	Dec	27	27:36	B.C.E.	07:11:34	0722459.7996957	-2736	Dec	28	01:34:28	066173	LTU	Dec.	-0.4000	2.1140	1.1341	314	194	053	22.8N	107.0W	13	09	2736	B.C.E.
03006	Jun	22	27:35	B.C.E.	12:41:09	0722637.0285775	-2735	Jun	23	07:03:32	066143	LPU	Asc.	0.5039	1.9698	0.8977	355	203	---	21.5S	166.9E	14	03	2735	B.C.E.
03007	Dec	16	27:35	B.C.E.	22:54:15	0722814.4543458	-2735	Dec	17	17:16:38	066143	LNN	Dec.	-0.1054	0.8985	-0.0704	233	---	---	20.5N	16.5E	14	09	2735	B.C.E.
03008	May	13	27:34	B.C.E.	00:30:39	0722961.5212872	-2734	May	13	18:52:34	066114	LNN	Asc.	-1.5215	0.0813	-0.9486	084	---	---	12.3S	9.8W	13	02	2734	B.C.E.
03009	Jun	11	27:34	B.C.E.	13:27:52	0722991.0610201	-2734	Jun	12	07:49:46	066114	LNN	Asc.	1.2424	0.6067	-0.4493	226	---	---	18.6S	155.2E	13	03	2734	B.C.E.
03010	Nov	07	27:34	B.C.E.	00:08:31	0723139.5059177	-2734	Nov	07	18:30:24	066114	LNT	Dec.	1.0207	1.0031	-0.0324	263	---	---	10.3S	3.6W	14	08	2734	B.C.E.
03011	May	01	27:33	B.C.E.	10:23:20	0723315.9328750	-2733	May	02	04:44:45	066084	LPU	Asc.	-0.6944	1.5717	0.5959	298	156	---	7.7N	156.7W	13	01	2733	B.C.E.
03012	Oct	26	27:33	B.C.E.	05:08:53	0723493.7145066	-2733	Oct	26	23:30:15	066084	LPU	Dec.	0.3619	2.2395	1.1495	361	216	060	5.3N	78.1W	14	07	2733	B.C.E.
03013	Apr	21	27:32	B.C.E.	02:04:04	0723670.5861603	-2732	Apr	21	20:24:59	066054	LPU	Asc.	0.0732	2.6945	1.7525	318	205	099	3.0S	30.5W	14	01	2733	B.C.E.
03014	Oct	15	27:32	B.C.E.	04:31:25	0723847.6884839	-2732	Oct	15	22:52:20	066054	LPU	Dec.	-0.3149	2.3337	1.2279	372	223	073	0.1N	68.0W	14	07	2732	B.C.E.
03015	Nov	19	27:31	B.C.E.	19:17:04	0724025.3035212	-2731	Nov	19	13:37:29	066025	LPU	Asc.	0.8136	1.3400	0.3899	273	121	---	1.8N	72.7E	15	13	2731	B.C.E.
03016	Oct	04	27:31	B.C.E.	05:26:49	0724201.7269566	-2731	Oct	04	23:47:15	066025	LPU	Dec.	-0.9795	1.0958	0.0265	284	039	---	5.2S	81.1W	13	06	2731	B.C.E.
03017	Mar	01	27:30	B.C.E.	22:13:34	0724528.4620885	-2730	Mar	02	16:33:29	065995	LNN	Asc.	-1.0723	0.9065	-0.1252	258	---	---	14.5N	31.4E	15	11	2730	B.C.E.
03018	Aug	25	27:30	B.C.E.	02:14:15	0724526.5932315	-2730	Aug	25	20:34:10	065995	LNN	Dec.	1.1070	0.8154	-0.1617	228	---	---	17.4S	32.7W	13	05	2730	B.C.E.
03019	Feb	19	27:29	B.C.E.	01:38:21	0724704.5682971	-2729	Feb	19	19:57:45	065965	LPU	Asc.	-0.3532	2.2492	1.1715	365	220	065	18.3N	19.5W	14	11	2729	B.C.E.
03020	Aug	13	27:29	B.C.E.	18:14:47	0724881.2602711	-2729	Aug	14	12:34:12	065965	LPU	Dec.	0.4030	2.0972	1.1396	308	189	053	20.6S	87.0E	14	05	2729	B.C.E.
03021	Feb	07	27:28	B.C.E.	10:36:25	0725058.5669617	-2728	Feb	07	19:55:23	065936	LPU	Asc.	0.3757	2.2079	1.1302	362	217	057	21.6N	19.2W	14	11	2728	B.C.E.
03022	Aug	03	27:28	B.C.E.	09:45:40	0725235.9067131	-2728	Aug	04	04:04:34	065936	LPU	Dec.	-0.3079	2.2842	1.3017	324	204	076	23.1S	146.4W	14	04	2728	B.C.E.
03023	Jan	27	27:27	B.C.E.	05:36:19	0725412.7335490	-2727	Jan	27	23:54:46	065907	LNN	Asc.	1.0773	0.8986	-0.1355	255	---	---	24.0N	79.9W	13	10	2727	B.C.E.
03024	Jul	23	27:27	B.C.E.	20:19:32	0725590.3468969	-2727	Jul	24	14:37:58	065907	LNN	Dec.	-1.0892	0.8765	-0.1571	254	---	---	24.8S	54.3E	15	04	2727	B.C.E.
03025	Dec	18	27:27	B.C.E.	06:19:01	0725737.7632018	-2727	Dec	19	00:37:28	065907	LPU	Asc.	-0.9542	1.0938	0.1204	254	066	---	20.9N	94.4W	13	09	2727	B.C.E.
03026	Jun	13	27:26	B.C.E.	08:19:08	0725914.8466256	-2726	Jun	14	02:37:05	065877	LPU	Dec.	0.9880	1.0812	0.0099	292	025	---	19.3S	127.5W	14	03	2726	B.C.E.
03027	Dec	07	27:26	B.C.E.	22:07:01	0726092.4215392	-2726	Dec	08	16:24:57	065877	LPU	Asc.	-0.2878	2.3179	1.3418	316	200	078	19.2N	27.6E	14	09	2726	B.C.E.
03028	Jun	01	27:25	B.C.E.	10:04:10	0726268.9195648	-2725	Jun	02	04:21:40	065847	LPU	Dec.	0.2106	2.4933	1.4505	359	226	093	17.2S	153.9W	13	02	2725	B.C.E.
03029	Nov	26	27:25	B.C.E.	11:25:55	0726446.9763343	-2725	Nov	27	05:43:21	065847	LPU	Asc.	0.4037	2.1277	1.1072	329	201	049	16.9N	172.9W	14	08	2725	B.C.E.
03030	May	21	27:24	B.C.E.	18:12:02	0726623.2646090	-2724	May	22	12:38:01	065818	LPU	Dec.	-0.5677	1.8102	0.8225	314	181	---	14.6S	82.1E	13	02	2724	B.C.E.
03031	Nov	15	27:24	B.C.E.	18:14:06	0726801.2597879	-2724	Nov	16	12:31:04	065818	LNN	Asc.	1.1419	0.8026	-0.2761	253	---	---	13.8N	84.6E	15	08	2724	B.C.E.
03032	Feb	12	27:23	B.C.E.	02:34:05	0726948.6070000	-2723	Apr	12	20:50:33	065788	LNN	Dec.	1.2028	0.6207	-0.3192	198	---	---	1.5N	36.4W	14	01	2723	B.C.E.
03033	May	11	27:23	B.C.E.	09:07:43	0726977.8803596	-2723	May	12	03:24:11	065788	LNN	Dec.	-1.2812	0.4797	-0.4657	178	---	---	11.7S	139.1W	13	02	2723	B.C.E.
03034	Oct	05	27:23	B.C.E.	22:58:54	0727125.4575743	-2723	Oct	06	17:15:22	065788	LNN	Asc.	-1.2170	0.6749	-0.4238	241	---	---	4.5S	16.1E	14	07	2723	B.C.E.
03035	Apr	01	27:22	B.C.E.	19:21:14	0727303.3064076	-2722	Apr	02	13:37:11	065758	LPU	Dec.	0.4878	1.9433	0.9821	309	184	---	5.0N	72.7E	15	13	2722	B.C.E.
03036	Sep	25	27:22	B.C.E.	01:41:08	0727479.5702357	-2722	Sep	25	19:57:08	065758	LPU	Asc.	-0.4899	1.9850	0.9339	338	197	---	8.4S	24.3W	13	06	2722	B.C.E.
03037	Mar	21	27:21	B.C.E.	07:45:27	0727657.8232263	-2721	Mar	22	02:00:53	065729	LPU	Dec.	-0.2775	2.3561	1.3418	342	216	083	8.3N	112.7W	14	12	2721	B.C.E.
03038	Sep	13	27:21	B.C.E.	11:49:34	0727833.9927556	-2721	Sep	14	06:05:05	065729	LPU	Asc.	0.2320	2.4287	1.4360	327	209	087	11.9S	176.4W	13	06	2721	B.C.E.
03039	Mar	10	27:20	B.C.E.	12:52:39	0728012.0365614	-2720	Mar	11	07:07:38	065700	LNN	Dec.	-1.0718	0.9243	-0.1407	272	---	---	11.6N	101.4E	14	12	2720	B.C.E.
03040	Sep	03	27:20	B.C.E.	03:03:09	0728188.6271920	-2720	Sep	03	21:18:09	065700	LPU	Asc.	0.9032	1.1820	0.2191	259	090	---	14.9S	44.9W	14	05	2720	B.C.E.
03041	Jan	28	27:19	B.C.E.	21:14:06	0728336.3847960	-2719	Jan	29	15:28:37	065671	LNN	Dec.	-1.0978	0.8										

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar				
	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Date	Time		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year
03104	Aug	14	26:31 B.C.E.	11:27:33	0738760.9774601	-2691	Aug 15 05:28:19	064847	LNT	Dec.	-1.0069	1.0344	-0.0128	275	---	---	21.8S	171.1W	14 05	2691 B.C.E.
03105	Jan	08	2690 B.C.E.	23:43:33	0738908.4885799	-2690	Jan 09 17:43:51	064818	LPU	Asc.	-0.9809	1.0410	0.0750	248	043	---	23.0N	6.5E	14 10	2690 B.C.E.
03106	Jul	04	2690 B.C.E.	21:35:02	0739085.3993247	-2690	Jul 05 15:35:20	064818	LNN	Dec.	1.1398	0.8048	-0.2707	260	---	---	22.5S	34.2E	14 03	2690 B.C.E.
03107	Dec	29	2690 B.C.E.	15:43:18	0739263.1550731	-2690	Dec 30 09:43:35	064818	LTU	Asc.	-0.3077	2.2806	1.3060	316	199	075	23.1N	125.4E	15 09	2690 B.C.E.
03108	Jun	22	2689 B.C.E.	23:44:45	0739439.4894075	-2689	Jun 23 17:44:34	064788	LTU	Dec.	0.3651	2.2086	1.1682	350	214	063	21.8S	1.1E	13 03	2689 B.C.E.
03109	Dec	18	2689 B.C.E.	04:42:50	0739617.6964072	-2689	Dec 18 22:42:36	064788	LTU	Asc.	0.3966	2.1420	1.1190	332	203	052	22.3N	70.8W	14 09	2689 B.C.E.
03110	Jun	12	2688 B.C.E.	08:50:45	0739793.8685795	-2688	Jun 13 02:50:06	064759	LTU	Dec.	-0.4131	2.0917	-0.1083	323	198	049	20.5S	135.8W	13 03	2688 B.C.E.
03111	Dec	07	2688 B.C.E.	10:51:10	0739971.9522031	-2688	Dec 08 04:50:29	064759	LNN	Asc.	1.1395	0.8081	-0.2731	255	---	---	20.6N	164.0W	14 09	2688 B.C.E.
03112	May	03	2688 B.C.E.	17:38:32	0740119.2350901	-2687	May 04 11:37:21	064729	LNN	Dec.	1.3478	0.3540	-0.5845	154	---	---	6.7S	95.1E	14 01	2688 B.C.E.
03113	Jun	02	2687 B.C.E.	00:08:00	0740148.5055585	-2687	Jun 02 18:06:50	064730	LNN	Dec.	-1.1317	0.7533	-0.1907	217	---	---	18.5S	5.3W	14 02	2687 B.C.E.
03114	Oct	27	2687 B.C.E.	15:18:16	0740296.1376796	-2687	Oct 28 09:17:05	064730	LNN	Asc.	-1.2244	0.6610	-0.4373	238	---	---	4.5N	130.1E	13 07	2687 B.C.E.
03115	Apr	23	2686 B.C.E.	10:12:09	0740473.9251034	-2686	Apr 24 10:10:29	064701	LPU	Dec.	0.6388	1.6678	0.7037	298	164	---	3.4S	152.5W	14 01	2686 B.C.E.
03116	Oct	16	2686 B.C.E.	18:36:05	0740650.2750573	-2686	Oct 17 12:34:28	064701	LPU	Asc.	-0.4985	1.9679	0.9194	335	195	---	0.5N	80.8E	13 07	2686 B.C.E.
03117	Apr	11	2685 B.C.E.	21:54:05	0740828.4125545	-2685	Apr 12 15:51:54	064672	LTU	Dec.	-0.1281	2.6320	1.6142	350	224	100	0.1N	32.9E	15 01	2685 B.C.E.
03118	Oct	05	2685 B.C.E.	05:15:16	0741004.7189367	-2685	Oct 05 23:13:10	064672	LTU	Asc.	0.2118	2.4655	1.4732	326	209	089	3.4S	78.7W	13 07	2685 B.C.E.
03119	Apr	01	2684 B.C.E.	02:19:23	0741182.5967884	-2684	Apr 01 20:16:44	064642	LPU	Dec.	-0.9243	1.1944	0.1303	301	087	---	3.8N	32.5W	14 13	2684 B.C.E.
03120	Sep	24	2684 B.C.E.	20:31:16	0741359.3550411	-2684	Sep 25 14:28:38	064642	LPU	Asc.	0.8735	1.2390	0.2713	264	102	---	7.0S	52.5E	14 06	2684 B.C.E.
03121	Feb	19	2683 B.C.E.	11:56:10	0741506.9973375	-2683	Feb 20 05:53:03	064613	LNN	Dec.	1.1877	0.7081	-0.3500	240	---	---	19.3N	173.5W	13 11	2683 B.C.E.
03122	Aug	16	2683 B.C.E.	00:30:50	0741684.5214117	-2683	Aug 16 18:27:43	064613	LNN	Asc.	-1.1282	0.7914	-0.2155	234	---	---	21.6S	6.5W	15 05	2683 B.C.E.
03123	Feb	08	2682 B.C.E.	19:02:09	0741861.2931579	-2682	Feb 09 12:58:34	064583	LTU	Dec.	0.4012	2.1255	1.1183	329	203	052	21.3N	79.5E	13 11	2682 B.C.E.
03124	Aug	05	2682 B.C.E.	07:59:00	0742038.8326404	-2682	Aug 06 01:55:21	064583	LTU	Asc.	-0.4329	2.0935	1.0343	350	208	030	22.9S	119.5W	14 04	2682 B.C.E.
03125	Jan	29	2681 B.C.E.	08:38:02	0742215.8597397	-2681	Jan 30 02:33:56	064554	LTU	Dec.	-0.3291	2.2369	1.2712	315	197	072	22.4N	125.3W	13 10	2681 B.C.E.
03126	Jul	24	2681 B.C.E.	09:06:59	0742392.8798439	-2681	Jul 25 03:02:53	064554	LTU	Asc.	0.3004	2.3487	1.2659	370	225	078	23.4S	137.5W	14 04	2681 B.C.E.
03127	Jan	18	2680 B.C.E.	00:55:53	0742570.5388027	-2680	Jan 18 18:51:17	064525	LNN	Dec.	-1.0147	0.9778	0.0143	242	026	---	22.7N	10.8W	14 10	2680 B.C.E.
03128	Jul	13	2680 B.C.E.	10:04:32	0742746.9198160	-2680	Jul 14 03:59:57	064525	LNT	Asc.	0.2136	1.0082	-0.0479	277	---	---	23.0S	152.8W	13 04	2680 B.C.E.
03129	Dec	09	2680 B.C.E.	02:01:09	0742895.5841359	-2680	Dec 09 19:56:34	064525	LNN	Dec.	1.0281	0.9928	-0.0492	265	---	---	21.0N	31.1W	14 09	2680 B.C.E.
03130	Jun	03	2679 B.C.E.	08:16:56	0743071.8450918	-2679	Jun 04 02:11:52	064495	LPU	Asc.	-0.9100	1.1721	0.2041	266	090	---	18.7S	127.3W	13 02	2679 B.C.E.
03131	Nov	28	2679 B.C.E.	05:57:17	0743249.7481088	-2679	Nov 28 23:52:11	064496	LTU	Dec.	0.3645	2.2371	1.1422	364	217	059	17.3N	90.6W	14 08	2679 B.C.E.
03132	May	24	2678 B.C.E.	00:36:05	0743426.5250521	-2678	May 24 18:30:32	064467	LTU	Asc.	-0.1491	2.5541	1.6143	316	203	095	14.9S	11.5W	14 02	2678 B.C.E.
03133	Nov	17	2678 B.C.E.	05:00:53	0743603.7089520	-2678	Nov 17 22:55:21	064467	LTU	Dec.	-0.3107	2.3407	1.2361	371	223	074	13.0N	76.6W	13 08	2678 B.C.E.
03134	May	12	2677 B.C.E.	17:36:30	0743781.2336849	-2677	May 13 11:30:27	064438	LPU	Asc.	0.5983	1.7374	0.7825	298	168	---	10.7S	94.3E	15 02	2677 B.C.E.
03135	Nov	05	2677 B.C.E.	06:44:04	0743957.7805993	-2677	Nov 06 00:38:03	064438	LPU	Dec.	-0.9708	1.1088	0.0452	283	050	---	8.3N	102.0W	13 08	2677 B.C.E.
03136	Apr	02	2676 B.C.E.	19:29:01	0744106.3118216	-2676	Apr 03 13:22:29	064408	LNN	Asc.	-1.2407	0.5181	-0.5162	205	---	---	2.7N	69.9E	15 01	2676 B.C.E.
03137	May	02	2676 B.C.E.	06:42:04	0744135.7792146	-2676	May 03 00:35:32	064408	LNN	Asc.	1.4100	0.7258	-0.7309	147	---	---	6.2S	100.9W	15 01	2676 B.C.E.
03138	Sep	26	2676 B.C.E.	04:04:56	0744282.6700938	-2676	Sep 26 21:58:24	064408	LNN	Asc.	1.1454	0.2749	-0.2332	219	---	---	6.2S	60.9W	13 06	2676 B.C.E.
03139	Mar	22	2675 B.C.E.	22:08:00	0744460.4222208	-2675	Mar 23 16:00:59	064379	LPU	Asc.	-0.5573	1.8717	0.7998	351	195	---	7.6N	31.5E	14 12	2675 B.C.E.
03140	Sep	15	2675 B.C.E.	09:52:51	0744637.3283703	-2675	Sep 16 13:45:50	064379	LTU	Dec.	0.4711	1.9774	1.0094	305	183	014	10.9S	62.7E	14 06	2675 B.C.E.
03141	Mar	11	2674 B.C.E.	22:46:16	0744814.4487918	-2674	Mar 12 16:38:47	064350	LTU	Asc.	0.1967	2.5282	1.4666	366	229	099	12.2N	23.0E	14 12	2674 B.C.E.
03142	Sep	05	2674 B.C.E.	10:21:53	0744991.9318600	-2674	Sep 06 04:14:21	064350	LTU	Dec.	-0.2199	2.4549	1.4543	331	212	089	15.2S	154.2W	14 05	2674 B.C.E.
03143	Feb	29	2673 B.C.E.	04:29:43	0745168.3072981	-2673	Feb 29 22:21:43	064320	LPU	Asc.	0.9306	1.1575	0.1436	278	086	---	16.5N	62.2W	13 11	2673 B.C.E.
03144	Aug	24	2673 B.C.E.	19:13:36	0745346.6110668	-2673	Aug 25 13:05:36	064320	LPU	Dec.	-0.9769	1.0928	0.0388	282	047	---	19.2S	72.9E	15 05	2673 B.C.E.
03145	Jan	19	2672 B.C.E.	08:13:23	0745493.8426328	-2672	Jan 20 02:04:55	064291	LNN	Dec.	-1.0047	0.9954	0.0334	243	040	---	22.7N	119.9W	13 10	2672 B.C.E.
03146	Jul	15	2672 B.C.E.	04:24:45	0745670.6838585	-2672	Jul 15 22:16:16	064291	LNN	Dec.	1.2056	0.6852	-0.3927	243	---	---	22.9S	67.5W	14 04	2672 B.C.E.
03147	Jan	09	2671 B.C.E.	00:20:48	0745848.4144662	-2671	Jan 09 18:11:49	064262	LTU	Asc.	-0.3262	2.2461	1.2727	316	198	072	23.7N	2.8W	14 10	2671 B.C.E.
03148	Jul	04	2671 B.C.E.	06:47:11	0746024.7827617	-2671	Jul 05 00:38:14	064262	LTU	Dec.	0.4335	2.0827	1.0430	345	206	033	23.1S	103.9W	13 03	2671 B.C.E.
03149	Dec	29	2671 B.C.E.	13:10:39	0746203.0490677	-2671	Dec 30 07:01:39	064262	LTU	Asc.	0.3856	2.1625	1.1388	333	204	056	23.8N	163.4E	14 09	2671 B.C.E.
03150	Jun	23	2670 B.C.E.	16:15:00	0746379.1770796	-2670	Jun 24 10:05:35	064234	LTU	Dec.	-0.3423	2.2209	1.2388	325	204	070	22.5S	113.4E	13 03	2670 B.C.E.
03151	Dec	18	2670 B.C.E.	19:01:50	0746557.2929395	-2670	Dec 19 12:52:24	064234	LNN	Asc.	1.1330	0.8201	-0.2612	257	---	---	22.9N	74.3E	15 09	2670 B.C.E.
03152	May	14	2669 B.C.E.	01:08:05	0746704.5427288	-2669	May 14 18:58:09	064204	LNN	Dec.	1.4223	0.2175	-0.7214	122	---	---	10.5S	18.2W	14 02	2669 B.C.E.
03153	Jun	12	2669 B.C.E.	07:42:07	0746733.820913															

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Year	Month	Day	Time (UT)	Year	Month	Day						Time (UT)	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
03211	Aug	04	2644	B.C.E.	00:37:59	0755917.5263805	-2644	Aug	04	18:15:58	063478	LPU	Asc.	0.9113	1.2148	0.1575	296	093	---	21.8S	9.6W	13	04	2644	B.C.E.
03212	Dec	30	2644	B.C.E.	18:45:58	0756066.2819164	-2644	Dec	31	12:23:55	063478	LNN	Dec.	1.0543	0.9456	-0.0979	261	---	---	24.6N	79.8E	15	09	2644	B.C.E.
03213	Jun	24	2643	B.C.E.	23:14:51	0756242.4686452	-2643	Jun	25	16:52:19	063448	LNN	Asc.	-1.0393	0.9339	-0.0319	242	---	---	23.5S	8.5E	13	03	2643	B.C.E.
03214	Dec	19	2643	B.C.E.	22:09:27	0756420.4232235	-2643	Dec	20	15:46:53	063448	LTU	Dec.	0.3806	2.2073	1.1131	364	216	053	22.5N	27.8E	14	09	2643	B.C.E.
03215	Jun	14	2642	B.C.E.	15:46:01	0756597.1569534	-2642	Jun	15	09:23:00	063419	LTU	Asc.	-0.2910	2.2947	1.3528	311	196	079	20.8S	120.5E	13	03	2642	B.C.E.
03216	Dec	08	2642	B.C.E.	21:16:03	0756774.3861408	-2642	Dec	09	14:53:02	063419	LTU	Dec.	-0.3023	2.3535	1.2541	370	223	076	19.6N	40.3E	14	09	2642	B.C.E.
03217	Jun	03	2641	B.C.E.	08:24:52	0756951.8506012	-2641	Jun	04	02:01:21	063390	LPU	Asc.	0.4533	2.0069	1.0452	312	188	032	17.6S	129.1W	14	02	2641	B.C.E.
03218	Nov	26	2641	B.C.E.	23:45:14	0757128.4897486	-2641	Nov	27	17:21:45	063390	LPU	Dec.	-0.9684	1.1095	0.0534	281	054	---	15.9N	2.6E	13	08	2641	B.C.E.
03219	Apr	24	2640	B.C.E.	09:03:03	0757276.8771211	-2640	Apr	25	02:39:04	063361	LNN	Asc.	-1.4485	2.0196	-0.8186	138	---	---	5.9S	136.1W	14	01	2640	B.C.E.
03220	May	23	2640	B.C.E.	20:37:44	0757306.3595360	-2640	May	24	14:13:45	063361	LNN	Asc.	1.2647	0.5434	-0.4683	204	---	---	13.8S	48.3E	15	02	2640	B.C.E.
03221	Oct	17	2640	B.C.E.	21:52:01	0757453.4111218	-2640	Oct	18	15:28:02	063361	LNN	Dec.	1.1466	0.7436	-0.2356	218	---	---	2.8N	31.1E	13	07	2640	B.C.E.
03222	Jan	13	2639	B.C.E.	11:12:03	0757630.9666974	-2639	Jan	14	04:47:34	063332	LPU	Asc.	-0.7198	1.5721	0.5029	333	163	---	0.9S	166.9W	14	01	2639	B.C.E.
03223	Oct	07	2639	B.C.E.	13:32:29	0757808.0642257	-2639	Oct	08	07:08:01	063332	LPU	Dec.	0.4867	1.9519	0.9779	305	182	---	2.2S	156.8E	13	07	2639	B.C.E.
03224	Apr	02	2638	B.C.E.	12:20:44	0757985.0144010	-2638	Apr	03	05:55:49	063303	LTU	Asc.	0.0480	2.7960	1.7443	366	232	105	4.1N	177.4E	13	13	2638	B.C.E.
03225	Sep	27	2638	B.C.E.	03:21:45	0758162.6440121	-2638	Sep	27	20:56:46	063303	LTU	Dec.	-0.1955	2.5052	1.4934	335	214	091	7.2S	49.8W	14	06	2638	B.C.E.
03226	Jan	21	2637	B.C.E.	19:13:35	0758339.3010960	-2637	Jan	22	12:48:10	063274	LPU	Asc.	0.8020	1.3872	0.3858	293	136	---	8.9N	75.5E	12	12	2637	B.C.E.
03227	Sep	15	2637	B.C.E.	11:07:38	0758516.9636322	-2637	Sep	16	04:42:12	063275	LPU	Dec.	-0.9374	1.1715	0.1051	292	077	---	12.0S	165.7W	14	06	2637	B.C.E.
03228	Feb	10	2636	B.C.E.	00:50:16	0758664.5349125	-2636	Feb	10	18:24:23	063246	LNN	Asc.	-1.0712	0.8695	-0.0848	230	---	---	19.4N	7.7W	14	01	2636	B.C.E.
03229	Mar	11	2636	B.C.E.	08:52:06	0758693.8695187	-2636	Mar	12	02:26:13	063246	LNN	Asc.	1.4844	0.1128	-0.8443	090	---	---	13.4N	128.1W	13	12	2636	B.C.E.
03230	Aug	05	2636	B.C.E.	18:33:55	0758841.2735554	-2636	Aug	06	12:08:01	063246	LNN	Dec.	1.3128	0.4911	-0.5919	209	---	---	21.2S	81.7E	14	04	2636	B.C.E.
03231	Jan	30	2635	B.C.E.	17:08:48	0759019.2144422	-2635	Jan	31	10:42:24	063217	LPU	Asc.	-0.3834	2.1400	1.1688	314	194	059	22.0N	107.2E	15	10	2635	B.C.E.
03232	Jul	25	2635	B.C.E.	21:20:40	0759195.3893517	-2635	Jul	26	14:54:19	063217	LPU	Asc.	0.5490	1.8705	0.8312	334	190	---	23.1S	39.3E	13	04	2635	B.C.E.
03233	Jan	20	2634	B.C.E.	05:39:32	0759273.7357882	-2634	Jan	20	23:12:38	063188	LTU	Asc.	0.3442	2.2387	1.2146	338	209	068	24.0N	81.4W	14	10	2634	B.C.E.
03234	Jul	15	2634	B.C.E.	07:26:59	0759549.8104101	-2634	Jul	16	01:00:09	063188	LTU	Dec.	-0.2179	2.4486	1.4675	328	210	090	24.2S	113.2W	13	04	2634	B.C.E.
03235	Jan	09	2633	B.C.E.	10:56:31	0759727.9559093	-2633	Jan	10	04:29:10	063159	LNN	Asc.	1.1006	0.8791	-0.2010	266	---	---	25.0N	161.9W	14	10	2633	B.C.E.
03236	Jul	03	2633	B.C.E.	23:08:38	0759904.4643311	-2633	Jul	04	16:41:17	063159	LPU	Dec.	-0.9303	1.1243	0.1772	254	074	---	24.5S	10.5E	14	03	2633	B.C.E.
03237	Nov	28	2633	B.C.E.	16:02:30	0760052.1684031	-2633	Nov	29	09:35:10	063159	LNN	Asc.	-1.2255	0.6555	-0.4359	236	---	---	16.3N	118.6E	14	08	2633	B.C.E.
03238	May	25	2632	B.C.E.	08:06:13	0760229.8376507	-2632	May	26	01:38:23	063130	LPU	Asc.	0.8771	1.2353	0.2619	273	105	---	14.6S	123.8W	14	02	2632	B.C.E.
03239	Nov	17	2632	B.C.E.	20:28:06	0760406.3528474	-2632	Nov	18	14:00:18	063130	LPU	Asc.	-0.4931	1.9734	0.9336	331	194	---	13.4N	51.7E	13	08	2632	B.C.E.
03240	Jul	14	2631	B.C.E.	18:28:47	0760584.2699888	-2631	Jul	15	12:00:26	063101	LTU	Asc.	0.1200	2.6516	1.6245	355	227	101	11.8S	81.0E	15	02	2631	B.C.E.
03241	Nov	07	2631	B.C.E.	08:00:41	0760760.8338067	-2631	Nov	08	01:32:23	063101	LTU	Asc.	0.2083	2.4700	1.4816	323	207	089	10.0N	121.6W	13	08	2631	B.C.E.
03242	Oct	23	2630	B.C.E.	21:46:10	0760938.4070617	-2630	Oct	24	15:17:22	063072	LPU	Dec.	-0.6683	1.6646	0.5996	338	175	---	8.5S	32.3E	14	01	2630	B.C.E.
03243	Oct	27	2630	B.C.E.	23:23:30	0761115.4746494	-2630	Oct	28	16:54:42	063072	LPU	Asc.	0.8623	1.2619	0.2893	266	107	---	6.4N	7.7E	14	07	2630	B.C.E.
03244	Mar	23	2629	B.C.E.	09:06:45	0761262.8796869	-2629	Mar	24	02:37:29	063043	LNN	Dec.	1.3695	0.3655	-0.6747	176	---	---	8.7N	132.5W	13	12	2629	B.C.E.
03245	Apr	21	2629	B.C.E.	22:32:34	0761292.4392823	-2629	Apr	22	16:03:17	063043	LNN	Dec.	-1.4148	0.2907	-0.7661	162	---	---	4.9N	21.5E	14	01	2629	B.C.E.
03246	Sep	17	2629	B.C.E.	01:08:46	0761440.5477508	-2629	Sep	17	18:39:29	063043	LNN	Asc.	-1.2092	0.6525	-0.3734	219	---	---	11.6S	15.7W	15	06	2629	B.C.E.
03247	Oct	16	2629	B.C.E.	13:56:27	0761470.0888625	-2629	Oct	17	07:27:10	063043	LNN	Asc.	1.2592	0.0023	-0.9999	013	---	---	2.6N	149.7E	14	07	2629	B.C.E.
03248	Jan	12	2628	B.C.E.	17:59:06	0761617.2493697	-2628	Jan	13	11:29:22	063015	LPU	Dec.	0.5571	1.8299	0.8418	313	182	---	12.0N	94.9E	13	12	2628	B.C.E.
03249	Sep	06	2628	B.C.E.	06:53:50	0761794.7873863	-2628	Sep	07	00:24:04	063015	LPU	Asc.	-0.5410	1.9045	0.8269	347	194	---	14.9S	102.1W	14	06	2628	B.C.E.
03250	Mar	02	2627	B.C.E.	08:52:24	0761971.8697278	-2627	Mar	03	02:22:11	062986	LTU	Dec.	-0.1933	2.4794	1.5270	317	203	091	14.8N	128.2W	12	12	2627	B.C.E.
03251	Aug	26	2627	B.C.E.	06:55:21	0762148.7884359	-2627	Aug	27	00:25:07	062986	LTU	Asc.	0.1624	2.6072	1.5139	376	232	098	17.8S	102.8W	14	05	2627	B.C.E.
03252	Feb	20	2626	B.C.E.	01:39:37	0762326.5691819	-2626	Feb	20	19:08:54	062957	LPU	Dec.	-0.9088	1.1694	0.2111	260	087	---	17.2N	20.1W	14	11	2626	B.C.E.
03253	Aug	15	2626	B.C.E.	08:10:51	0762502.8408639	-2626	Aug	16	01:40:09	062957	LPU	Asc.	0.8664	1.2975	0.2396	303	114	---	19.9S	122.2W	13	05	2626	B.C.E.
03254	Jan	11	2625	B.C.E.	02:55:33	0762651.6219109	-2625	Jan	11	20:24:21	062928	LNN	Dec.	1.0773	0.9035	-0.1402	258	---	---	25.0N	41.3W	15	10	2625	B.C.E.
03255	Jul	05	2625	B.C.E.	06:54:10	0762827.7876151	-2625	Jul	06	00:22:58	062928	LNN	Asc.	-1.0969	0.8281	-0.1375	230	---	---	2					

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD)	Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
											Pen.	Par.	Lat.	Lon.	Day	Month	Year
03318	Aug 05 2598 B.C.E.	23:15:22	0772720.4690063	-2598	Aug 06 16:31:15	062151	LTU	Dec.	-0.1214	2.6259	1.6445	329	212	097	22.5S	11.4E	13 04 2598 B.C.E.
03319	Jan 31 2597 B.C.E.	02:10:51	0772898.5908695	-2597	Jan 31 19:26:12	062122	LNN	Asc.	0.0390	0.9906	-0.0868	280	---	---	23.3N	28.3W	14 10 2597 B.C.E.
03320	Jul 25 2597 B.C.E.	15:02:03	0773075.1264237	-2597	Jul 26 08:17:25	062122	LNN	Dec.	-0.8231	1.3233	0.3717	269	117	---	24.4S	133.9E	13 04 2597 B.C.E.
03321	Dec 20 2597 B.C.E.	08:18:36	0773222.8462485	-2597	Dec 21 01:33:58	062122	LNN	Asc.	-1.2388	0.6269	-0.4560	230	---	---	21.3N	124.1W	13 09 2597 B.C.E.
03322	Jun 15 2596 B.C.E.	22:44:19	0773400.4474391	-2596	Jun 16 15:59:12	062094	LNN	Dec.	0.0290	0.9611	-0.0215	251	---	---	20.0S	16.3E	15 03 2596 B.C.E.
03323	Jul 15 2596 B.C.E.	07:26:16	0773429.8099115	-2596	Jul 16 00:41:09	062094	LNN	Dec.	-1.5459	0.0043	-0.9615	018	---	---	25.5S	113.1W	14 04 2596 B.C.E.
03324	Dec 09 2596 B.C.E.	13:41:04	0773577.0701848	-2596	Dec 10 06:55:59	062094	LPU	Asc.	-0.4949	1.9656	0.9348	328	193	---	19.8N	154.2E	12 09 2596 B.C.E.
03325	Jun 05 2595 B.C.E.	08:02:47	0773754.8352697	-2595	Jun 06 01:17:10	062065	LPU	Dec.	0.2877	2.3482	1.3125	353	220	082	18.3S	123.5W	14 02 2595 B.C.E.
03326	Nov 29 2595 B.C.E.	01:56:26	0773931.5808555	-2595	Nov 29 19:10:52	062065	LPU	Asc.	0.2085	2.4671	1.4837	322	206	089	17.6N	30.4W	13 08 2595 B.C.E.
03327	May 25 2594 B.C.E.	10:33:17	0774108.9397815	-2594	May 26 03:47:14	062037	LPU	Dec.	-0.4893	1.9944	0.9269	356	206	---	15.8S	161.1W	14 02 2594 B.C.E.
03328	Nov 18 2594 B.C.E.	17:28:40	0774286.2282386	-2594	Nov 19 10:42:37	062037	LPU	Asc.	0.8647	1.2581	0.2844	266	106	---	14.8N	96.0E	14 08 2594 B.C.E.
03329	Apr 13 2593 B.C.E.	22:50:15	0774433.4515585	-2593	Apr 14 16:03:42	062008	LNN	Dec.	1.5120	0.0988	-0.9309	093	---	---	0.4N	19.3E	13 01 2593 B.C.E.
03330	May 13 2593 B.C.E.	11:34:49	0774462.9825118	-2593	May 14 04:48:17	062008	LNN	Dec.	-1.2380	0.6125	-0.4391	226	---	---	12.8S	176.1W	13 02 2593 B.C.E.
03331	Oct 08 2593 B.C.E.	18:06:31	0774611.2545275	-2593	Oct 09 11:19:59	062008	LNN	Asc.	-1.2332	0.6138	-0.4229	215	---	---	2.9S	88.9E	15 07 2593 B.C.E.
03332	Apr 03 2592 B.C.E.	08:50:02	0774787.8680745	-2592	Apr 04 02:03:03	061980	LPU	Dec.	0.6881	1.5838	0.6067	298	157	---	4.0N	129.8W	13 13 2592 B.C.E.
03333	Sep 27 2592 B.C.E.	22:48:26	0774965.4503051	-2592	Sep 28 16:01:26	061980	LPU	Asc.	-0.5790	1.8399	0.7521	346	188	---	6.8S	18.6E	14 06 2592 B.C.E.
03334	Mar 24 2591 B.C.E.	00:28:20	0775142.5196713	-2591	Mar 24 17:40:51	061951	LPU	Dec.	-0.0721	2.6982	1.7526	318	205	098	7.3N	3.6W	14 12 2591 B.C.E.
03335	Sep 16 2591 B.C.E.	22:16:18	0775319.4279854	-2591	Sep 17 15:28:49	061951	LPU	Asc.	0.1082	2.7094	1.6106	377	234	102	10.6S	26.8E	14 06 2591 B.C.E.
03336	Mar 13 2590 B.C.E.	17:25:40	0775497.2261531	-2590	Mar 14 10:37:41	061922	LPU	Dec.	-0.8040	1.4043	0.4043	275	124	---	10.5N	102.6E	15 12 2590 B.C.E.
03337	Sep 05 2590 B.C.E.	23:50:01	0775673.4930723	-2590	Sep 06 17:02:04	061922	LPU	Asc.	0.8003	1.4192	0.3605	310	136	---	14.0S	3.3E	13 06 2590 B.C.E.
03338	Feb 01 2589 B.C.E.	18:43:11	0775823.2799851	-2589	Feb 02 11:54:43	061893	LNN	Dec.	1.1461	0.7771	-0.2664	243	---	---	23.1N	84.0E	15 11 2589 B.C.E.
03339	Jul 26 2589 B.C.E.	22:37:50	0775998.4429423	-2589	Jul 27 15:49:24	061893	LNN	Asc.	-1.1937	0.6510	-0.3156	207	---	---	24.6S	20.3E	13 04 2589 B.C.E.
03340	Aug 25 2589 B.C.E.	08:37:03	0776207.8590603	-2589	Aug 26 01:48:36	061893	LNN	Asc.	1.4531	0.1910	-0.8074	120	---	---	16.6S	128.7W	13 05 2589 B.C.E.
03341	Jan 20 2588 B.C.E.	21:25:12	0776176.3924981	-2588	Jan 21 14:36:16	061865	LPU	Dec.	0.4540	2.0699	0.9811	360	209	---	23.9N	42.4E	14 10 2588 B.C.E.
03342	Jul 16 2588 B.C.E.	15:09:14	0776353.1314095	-2588	Jul 17 08:20:18	061865	LPU	Asc.	-0.4726	1.9654	1.0159	303	181	019	24.5S	131.5E	14 04 2588 B.C.E.
03343	Jan 09 2587 B.C.E.	20:59:06	0776530.3743747	-2587	Jan 10 14:09:43	061836	LPU	Dec.	-0.2521	2.4391	1.3528	369	226	086	23.8N	47.6E	14 10 2587 B.C.E.
03344	Jul 06 2587 B.C.E.	06:57:08	0776707.7896717	-2587	Jul 07 00:07:42	061836	LPU	Asc.	0.2568	2.3748	1.3987	326	207	085	23.4S	106.3W	14 03 2587 B.C.E.
03345	Dec 30 2587 B.C.E.	00:55:22	0776884.5384484	-2587	Dec 31 18:05:58	061836	LPU	Dec.	-0.9399	1.1538	0.1136	281	078	---	22.6N	12.6W	13 09 2587 B.C.E.
03346	Jun 25 2586 B.C.E.	17:36:15	0777062.2350777	-2586	Jun 26 10:46:21	061807	LNN	Asc.	1.0548	0.9366	-0.9100	262	---	---	21.6S	96.3E	15 03 2586 B.C.E.
03347	Nov 20 2586 B.C.E.	00:55:00	0777209.5381966	-2586	Nov 20 18:05:09	061808	LNN	Dec.	1.1346	0.7641	-0.2118	219	---	---	15.6N	15.5W	13 08 2586 B.C.E.
03348	May 15 2585 B.C.E.	06:20:59	0777386.7645716	-2585	May 15 23:30:39	061780	LPU	Asc.	-0.9825	1.0895	0.0217	293	036	---	13.2S	97.5W	14 02 2585 B.C.E.
03349	Nov 08 2585 B.C.E.	16:31:33	0777564.1885780	-2585	Nov 09 09:41:12	061780	LPU	Dec.	0.4844	1.9592	0.9790	307	184	---	11.1N	110.6E	14 08 2585 B.C.E.
03350	May 04 2584 B.C.E.	08:20:34	0777740.8476122	-2584	May 05 01:29:47	061751	LPU	Asc.	-0.1994	2.5122	1.4725	358	226	095	8.7S	126.2W	13 01 2584 B.C.E.
03351	Oct 29 2584 B.C.E.	05:26:28	0777918.7267072	-2584	Oct 29 22:35:36	061751	LPU	Dec.	-0.1936	2.5155	1.4903	340	216	091	6.3N	82.7W	14 07 2584 B.C.E.
03352	Apr 23 2583 B.C.E.	16:52:48	0778095.3032993	-2583	Apr 24 10:01:31	061722	LPU	Asc.	0.5783	1.7900	0.8039	313	179	---	3.9S	107.1E	13 01 2583 B.C.E.
03353	Oct 18 2583 B.C.E.	11:44:38	0778272.9893262	-2583	Oct 19 04:53:20	061722	LPU	Dec.	-0.9206	1.2096	0.1286	299	085	---	1.2N	176.5W	14 07 2583 B.C.E.
03354	Mar 15 2582 B.C.E.	00:47:21	0778426.5238823	-2582	Mar 15 17:55:34	061693	LNN	Asc.	-1.2196	0.5924	-0.3525	194	---	---	9.5N	7.9W	14 12 2582 B.C.E.
03355	Apr 13 2582 B.C.E.	07:44:56	0778494.8228655	-2582	Apr 14 00:53:09	061693	LNN	Asc.	1.2871	0.4691	-0.4769	176	---	---	0.9N	114.5W	13 01 2582 B.C.E.
03356	Sep 07 2582 B.C.E.	17:03:48	0778597.2109719	-2582	Sep 08 10:12:02	061693	LNN	Dec.	1.4125	0.3114	-0.7780	169	---	---	12.8S	104.9E	14 06 2582 B.C.E.
03357	Mar 03 2581 B.C.E.	17:12:12	0778775.2168056	-2581	Mar 04 10:19:56	061665	LPU	Asc.	-0.5216	1.8853	0.9162	308	181	---	13.8N	106.7E	15 12 2581 B.C.E.
03358	Aug 26 2580 B.C.E.	20:30:37	0778952.3545990	-2580	Aug 27 13:38:24	061665	LPU	Dec.	0.6222	1.6630	0.6234	320	169	---	16.9S	53.3E	13 05 2580 B.C.E.
03359	Feb 21 2580 B.C.E.	05:02:52	0779129.7103185	-2580	Feb 21 22:10:05	061636	LPU	Asc.	0.2246	2.4582	1.4337	346	219	090	17.8N	70.5W	15 11 2580 B.C.E.
03360	Aug 16 2580 B.C.E.	07:24:32	0779305.8087070	-2580	Aug 17 00:31:50	061636	LPU	Dec.	-0.0847	2.6935	1.7115	328	213	098	20.4S	110.3W	13 05 2580 B.C.E.
03361	Feb 10 2579 B.C.E.	09:31:03	0779483.8965577	-2579	Feb 11 02:37:49	061607	LNT	Asc.	0.9953	1.0700	-0.0057	289	---	---	21.2N	137.7W	14 11 2579 B.C.E.
03362	Aug 05 2579 B.C.E.	23:11:39	0779660.4664194	-2579	Aug 06 16:18:25	061607	LPU	Dec.	-0.7803	1.4032	0.4489	275	129	---	23.1S	12.4E	14 04 2579 B.C.E.
03363	Dec 31 2579 B.C.E.	16:18:50	0779808.1797417	-2578	Jan 01 09:25:09	061579	LNN	Asc.	-1.2526	0.5990	-0.4787	224	---	---	22.5N	116.9E	14 09 2578 B.C.E.
03364	Jun 27 2578 B.C.E.	06:07:06	0779985.7549275	-2578	Jun 27 23:13:24	061579	LNN	Dec.	1.1002	0.8332	-0.1548	237	---	---	21.7S	94.1W	15 03 2578 B.C.E.
03365	Jul 26 2578 B.C.E.	15:18:24	0780015.1377808	-2578	Jul 27 08:24:42	061579	LNN	Dec.	-1.5005	0.0902	-0.8810	082	---	---	25.0S	129.9E	14 04 2578 B.C.E.
03366	Dec 20 2578 B.C.E.	22:12:18	0780162.4252093	-2578	Dec 21 15:18:39	061579	LPU	Asc.	-0.5012	1.9513	0.9259	326	192	---	21.9N	27.3E	13 09 2578 B.C.E.
03367	Jun 15 2577 B.C.E.	14:51:45	0780340.1192685	-2577	Jun 16 07:57:34	061551	LPU	Dec.	0.3680	2.2034	1.1625	351	214	062	20.7S	134.2E	13 04 2577 B.C.E.
03368	Dec 09 2577 B.C.E.	10:50:19	0780516.9516058	-2577	Dec 10 03:56:11	061551	LPU	Asc.	0.2048	2.4723	1.4922	321	206	089	20.5N	163.3W	13 09 2577 B.C.E.
03369	Jun 04 2576 B.C.E.	16:58:52	0780694.2075435	-2576	Jun 05 10:04:15	061523	LPU	Dec.	-0.4013	2.1567	1.0872	362	216	048	18.8S	102.2E	14 02 2576 B.C.E.
03370	Nov 29 2576 B.C.E.	02:29:38	0780871.6039150	-2576	Nov 29 19:35:01	061523	LPU	Asc.	0.8653	1.2570	0.2834	266	106	---	18.3N</		

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Year	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Time of Maximum Eclipse		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen.	Par. (minutes)	Lat.	Lon.	Day	Month	Year		
03425	Sep	16	2553	B.C.E.	01:28:24	0789198.5613860	-2553	Sep 16 18:22:52	060868	LNN	Asc.	1.4047	0.2799	-0.7185	144	---	9.5S	21.8W	13	06	2553	B.C.E.
03426	Feb	11	2552	B.C.E.	12:05:41	0789347.0039467	-2552	Feb 12 04:59:40	060839	LPU	Dec.	0.5423	1.9051	0.8215	353	197	20.4N	176.2W	14	11	2552	B.C.E.
03427	Aug	07	2552	B.C.E.	07:19:16	0789523.8050413	-2552	Aug 08 00:13:14	060839	LPU	Dec.	-0.5649	1.7997	0.8429	297	171	22.6S	109.3W	14	05	2552	B.C.E.
03428	Jan	31	2551	B.C.E.	12:09:26	0789701.0063540	-2551	Feb 01 05:03:00	060812	LTU	Dec.	-0.1836	2.5592	1.4840	368	229	22.0N	177.9W	13	11	2551	B.C.E.
03429	Jul	27	2551	B.C.E.	22:24:24	0789878.4336057	-2551	Jul 28 15:17:54	060812	LTU	Asc.	0.1501	2.5766	1.5886	332	214	23.2S	23.5E	15	04	2551	B.C.E.
03430	Jan	20	2550	B.C.E.	17:12:12	0790055.2168012	-2550	Jan 21 10:05:15	060783	LPU	Dec.	-0.8906	1.2377	0.2104	286	104	22.7N	105.3E	13	10	2550	B.C.E.
03431	Jul	17	2550	B.C.E.	07:54:57	0790232.8298248	-2550	Jul 18 00:47:59	060783	LPU	Asc.	0.9333	1.1659	0.1257	288	083	23.1S	120.1W	14	04	2550	B.C.E.
03432	Dec	11	2550	B.C.E.	18:51:02	0790380.2854403	-2550	Dec 12 11:44:05	060783	LNN	Dec.	1.1344	0.7623	-0.2092	218	---	21.8N	76.5E	14	09	2550	B.C.E.
03433	Jan	10	2549	B.C.E.	05:14:02	0790409.3180822	-2549	Jan 10 22:06:37	060755	LNN	Dec.	-1.5293	0.0413	-0.9376	055	---	22.4N	76.2W	13	10	2549	B.C.E.
03434	Jun	05	2549	B.C.E.	19:10:49	0790557.2991816	-2549	Jun 06 12:03:24	060755	LNN	Asc.	-1.1528	0.7775	-0.2912	255	---	19.9S	69.2E	14	02	2549	B.C.E.
03435	Nov	30	2549	B.C.E.	10:29:47	0790734.9373533	-2549	Dec 01 03:22:22	060755	LPU	Dec.	0.4831	1.9624	0.9805	308	185	18.5N	158.7W	14	08	2549	B.C.E.
03436	May	25	2548	B.C.E.	21:45:53	0790911.4068684	-2548	May 26 14:38:01	060726	LTU	Asc.	-0.3645	2.2064	1.1725	349	214	16.1S	30.8E	13	02	2548	B.C.E.
03437	Nov	19	2548	B.C.E.	22:54:48	0791089.4547216	-2548	Nov 20 15:46:52	060726	LTU	Dec.	-0.2004	2.5061	1.4749	342	217	14.5N	14.8E	15	08	2548	B.C.E.
03438	May	15	2547	B.C.E.	07:15:32	0791265.8024536	-2547	May 16 00:07:11	060698	LTU	Asc.	0.4207	2.0755	1.0967	321	197	11.9S	110.7W	13	02	2547	B.C.E.
03439	Nov	09	2547	B.C.E.	04:24:41	0791443.6838131	-2547	Nov 09 21:16:19	060698	LPU	Dec.	-0.9251	1.2046	0.1175	300	082	9.9N	67.4W	14	08	2547	B.C.E.
03440	Apr	05	2546	B.C.E.	16:12:14	0791591.1751571	-2546	Apr 06 09:03:24	060670	LNN	Asc.	-1.3458	0.3590	-0.5821	155	---	1.2N	118.7E	14	13	2546	B.C.E.
03441	May	04	2546	B.C.E.	22:45:09	0791620.4480153	-2546	May 05 15:36:18	060670	LNN	Asc.	1.1409	0.7354	-0.2066	214	---	7.5S	18.0E	14	01	2546	B.C.E.
03442	Sep	29	2546	B.C.E.	08:52:39	0791767.8698985	-2546	Sep 30 01:43:50	060670	LNN	Dec.	1.4409	0.2605	-0.8313	155	---	4.6S	133.2W	13	06	2546	B.C.E.
03443	Mar	25	2545	B.C.E.	08:31:12	0791945.8550054	-2545	Mar 26 01:21:53	060641	LPU	Asc.	-0.6465	1.6565	0.6869	298	163	6.0N	124.7W	14	12	2545	B.C.E.
03444	Sep	17	2545	B.C.E.	12:50:40	0792122.0352585	-2545	Sep 18 05:41:29	060641	LPU	Dec.	0.6977	1.5975	0.5584	314	161	9.5S	168.0E	12	06	2545	B.C.E.
03445	Mar	14	2544	B.C.E.	19:47:07	0792300.3243922	-2544	Mar 15 12:37:18	060613	LTU	Asc.	0.1078	2.6731	1.6476	351	225	10.1N	6.6E	15	12	2544	B.C.E.
03446	Sep	07	2544	B.C.E.	00:10:36	0792476.5073597	-2544	Sep 07 17:00:50	060613	LTU	Dec.	-0.0330	2.7889	1.8058	327	212	09.9N	14.0S	13	06	2544	B.C.E.
03447	Mar	03	2544	B.C.E.	23:42:35	0792543.4879095	-2543	Mar 04 16:32:19	060584	LPU	Asc.	0.8860	1.2689	0.1964	309	106	15.1N	9.4E	14	12	2543	B.C.E.
03448	Aug	27	2543	B.C.E.	15:54:38	0792831.1629367	-2543	Aug 28 08:44:23	060585	LPU	Dec.	-0.7153	1.5255	0.5651	283	144	18.1S	122.6E	13	05	2543	B.C.E.
03449	Jan	22	2542	B.C.E.	07:56:34	0792978.8309522	-2542	Jan 23 00:45:51	060557	LNN	Asc.	-1.2984	0.5089	-0.5569	207	---	22.2N	115.4W	13	10	2542	B.C.E.
03450	Jul	18	2542	B.C.E.	21:08:43	0793156.3810506	-2542	Jul 19 13:58:00	060557	LNN	Dec.	1.2256	0.6094	-0.3909	210	---	22.7S	41.8E	15	04	2542	B.C.E.
03451	Aug	17	2542	B.C.E.	07:26:01	0793185.8097321	-2542	Aug 18 00:15:17	060557	LNN	Dec.	-1.4311	0.2935	-0.7592	128	---	21.5S	110.5W	14	05	2542	B.C.E.
03452	Jan	11	2541	B.C.E.	14:57:40	0793333.1233811	-2541	Jan 12 07:46:31	060529	LPU	Asc.	-0.5299	1.8926	0.8791	320	187	23.5N	138.2E	13	10	2541	B.C.E.
03453	Jul	07	2541	B.C.E.	04:42:26	0793510.6961321	-2541	Jul 07 21:31:14	060529	LPU	Dec.	0.5150	1.9393	0.8874	344	198	23.3S	72.4W	14	04	2541	B.C.E.
03454	Dec	31	2541	B.C.E.	04:23:29	0793687.6829787	-2541	Dec 31 21:11:50	060500	LTU	Asc.	0.1841	2.5064	1.5339	320	205	09.1N	23.8N	13	10	2541	B.C.E.
03455	Jun	26	2540	B.C.E.	06:04:50	0793864.7533608	-2540	Jun 26 22:53:10	060500	LTU	Dec.	-0.2377	2.4592	1.3851	371	229	09.0N	23.9N	14	03	2540	B.C.E.
03456	Dec	20	2540	B.C.E.	20:17:58	0794042.3458133	-2540	Dec 21 13:06:18	060500	LPU	Asc.	0.8562	1.2729	0.3008	268	109	23.3N	55.5E	14	09	2540	B.C.E.
03457	Jun	15	2539	B.C.E.	07:31:27	0794218.8135078	-2539	Jun 16 00:19:20	060472	LPU	Dec.	-0.9817	1.0805	0.0333	284	044	21.8S	116.1W	13	03	2539	B.C.E.
03458	Nov	10	2539	B.C.E.	19:55:50	0794367.3304349	-2539	Nov 11 12:43:42	060472	LNN	Asc.	-1.2461	0.5962	-0.4524	215	---	10.3N	60.1E	15	08	2539	B.C.E.
03459	May	06	2538	B.C.E.	06:48:42	0794543.7838229	-2538	May 06 23:36:05	060443	LPU	Dec.	0.9568	1.1784	0.2134	266	091	8.3S	102.9W	13	01	2538	B.C.E.
03460	Oct	30	2538	B.C.E.	23:19:15	0794721.4717051	-2538	Oct 31 16:06:37	060443	LPU	Asc.	-0.6005	1.8057	0.7074	347	185	6.6N	9.2E	14	07	2538	B.C.E.
03461	Apr	24	2537	B.C.E.	23:15:29	0794898.4690873	-2537	Apr 25 16:02:24	060415	LPU	Dec.	0.1428	2.5656	1.6261	316	203	09.5S	1.1E	11	01	2537	B.C.E.
03462	Oct	18	2537	B.C.E.	22:18:16	0795075.4293477	-2537	Oct 19 15:05:11	060415	LTU	Asc.	0.0740	2.7740	1.6716	377	234	2.6N	24.7E	14	07	2537	B.C.E.
03463	Apr	14	2536	B.C.E.	16:11:42	0795253.1747928	-2536	Apr 15 08:58:08	060387	LPU	Dec.	-0.6760	1.7247	0.7672	298	167	1.7S	117.9E	15	01	2536	B.C.E.
03464	Oct	08	2536	B.C.E.	00:30:06	0795429.5209061	-2536	Oct 08 17:16:35	060387	LPU	Asc.	0.7521	1.5070	0.4497	314	149	1.5S	8.0W	13	07	2536	B.C.E.
03465	Mar	05	2535	B.C.E.	17:03:58	0795578.2110882	-2535	Mar 06 09:49:56	060358	LNN	Dec.	1.3079	0.4801	-0.5631	199	---	14.8N	109.4E	15	12	2535	B.C.E.
03466	Apr	04	2535	B.C.E.	05:01:40	0795607.7094921	-2535	Apr 04 21:47:38	060358	LNN	Dec.	-1.4167	0.2627	-0.7457	145	---	1.8N	73.8W	15	15	2535	B.C.E.
03467	Aug	28	2535	B.C.E.	23:21:21	0795754.4731639	-2535	Aug 29 16:07:20	060358	LNN	Asc.	-1.2896	0.4767	-0.4934	179	---	18.1S	11.3E	13	05	2535	B.C.E.
03468	Sep	27	2535	B.C.E.	10:05:33	0795783.9205215	-2535	Sep 28 02:51:31	060358	LNN	Asc.	1.3885	0.3093	-0.6888	150	---	5.3S	151.6W	12	06	2535	B.C.E.
03469	Feb	22	2534	B.C.E.	19:11:22	0795932.2955556	-2534	Feb 23 11:56:53	060331	LPU	Dec.	0.5982	1.8012	0.7204	348	188	17.7N	77.5E	14	11	2534	B.C.E.
03470	Aug	18	2534	B.C.E.	15:36:11	0796109.1501288	-2534	Aug 19 08:21:42	060331	LPU	Asc.	-0.6013	1.7349	0.7741	295	166	20.3S	127.1E	13	05	2534	B.C.E.
03471	Feb	11	2533	B.C.E.	19:30:50	0796286.3130745	-2533	Feb 12 12:15:54	060303	LTU	Dec.	-0.1367	2.6422	1.5729	368	231	10.0N	9.9E	14	11	2533	B.C.E.
03472	Aug	07	2533	B.C.E.	06:18:26	0796463.7628049	-2533	Aug 07 23:03:27	060303	LTU	Asc.	0.1064	2.6600	1.6656	334	216						

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar						
										Pen.	Par.	Lat.	Lon.	Day	Month	Year				
03532	Apr 05 2508 B.C.E.	09:55:48	0805470.9137470	-2508	Apr 06 02:29:05	059599	LTU	Asc.	-0.0341	2.8097	1.7816	355	228	104	2.3N	146.8W	14	13	2508	B.C.E.
03533	Sep 28 2508 B.C.E.	17:30:49	0805647.2297316	-2508	Sep 29 10:04:08	059599	LTU	Dec.	-0.0083	2.8347	1.8509	326	212	099	5.8S	97.7E	13	06	2508	B.C.E.
03534	Mar 25 2507 B.C.E.	13:15:12	0805825.0522187	-2507	Mar 26 05:48:03	059571	LPU	Asc.	0.7467	1.5231	0.4535	329	155	---	7.2N	164.7E	14	12	2507	B.C.E.
03535	Mar 18 2507 B.C.E.	09:10:15	0806001.8821185	-2507	Sep 19 01:43:06	059571	LPU	Dec.	-0.6785	1.5962	0.6295	287	153	---	10.6S	136.5W	14	06	2507	B.C.E.
03536	Feb 12 2506 B.C.E.	23:02:15	0806149.4598919	-2506	Feb 13 15:34:37	059543	LNN	Asc.	-1.3713	0.3685	-0.6843	177	---	---	18.4N	19.3E	13	11	2506	B.C.E.
03537	Mar 14 2506 B.C.E.	13:43:00	0806179.0715298	-2506	Mar 15 06:15:23	059543	LNN	Asc.	1.4761	0.1825	-0.8827	130	---	---	12.0N	158.9E	13	12	2506	B.C.E.
03538	Aug 09 2506 B.C.E.	12:35:15	0806327.0244780	-2506	Aug 10 05:07:38	059543	LNN	Dec.	1.3261	0.4317	-0.5818	181	---	---	20.4S	171.5E	14	05	2506	B.C.E.
03539	Sep 08 2506 B.C.E.	00:03:24	0806356.5023663	-2506	Sep 08 16:35:48	059543	LNN	Dec.	-1.3886	0.3073	-0.6869	150	---	---	15.1S	0.6E	15	06	2506	B.C.E.
03540	Feb 02 2505 B.C.E.	07:13:42	0806503.8011858	-2505	Feb 02 23:45:39	059515	LPU	Asc.	-0.5852	1.7845	0.7839	312	179	---	21.3N	103.9W	13	11	2505	B.C.E.
03541	Jul 28 2505 B.C.E.	18:57:43	0806681.2900861	-2505	Jul 29 11:29:38	059515	LPU	Dec.	0.6373	1.7210	0.6571	336	178	---	22.6S	75.3E	15	04	2505	B.C.E.
03542	Jan 21 2504 B.C.E.	21:29:02	0806858.3951641	-2504	Jan 22 14:00:30	059487	LTU	Asc.	0.1402	2.5826	1.6185	319	206	094	23.5N	41.5E	14	10	2504	B.C.E.
03543	Jul 17 2504 B.C.E.	19:36:50	0807035.3172477	-2504	Jul 18 12:08:17	059487	LTU	Dec.	-0.0956	2.7229	1.6432	375	235	104	24.0S	64.7E	14	04	2504	B.C.E.
03544	Jan 11 2503 B.C.E.	13:41:33	0807213.0705194	-2503	Jan 12 06:12:31	059459	LPU	Asc.	0.8291	1.3214	0.3518	272	118	---	24.8N	157.2E	14	10	2503	B.C.E.
03545	Jul 06 2503 B.C.E.	21:21:54	0807389.3902124	-2503	Jul 07 13:52:54	059459	LPU	Dec.	-0.8322	1.3543	0.3081	307	128	---	24.5S	37.4E	13	04	2503	B.C.E.
03546	Dec 02 2503 B.C.E.	13:03:02	0807538.0437783	-2503	Dec 03 05:34:01	059459	LNN	Asc.	-1.2550	0.5821	-0.4711	214	---	---	17.4N	163.5E	14	09	2503	B.C.E.
03547	May 27 2502 B.C.E.	21:30:42	0807714.3963153	-2502	May 28 14:01:12	059430	LNN	Dec.	1.0513	0.9088	-0.0512	239	---	---	15.4S	35.1E	13	02	2502	B.C.E.
03548	Jun 26 2502 B.C.E.	05:57:57	0807743.7485752	-2502	Jun 26 22:28:27	059430	LNN	Dec.	-1.5244	0.0550	-0.9333	066	---	---	24.2S	92.4W	13	03	2502	B.C.E.
03549	Nov 21 2502 B.C.E.	15:46:24	0807892.1572233	-2502	Nov 22 08:16:53	059430	LPU	Asc.	-0.6065	1.7962	0.6952	348	184	---	14.7N	122.1E	15	08	2502	B.C.E.
03550	May 16 2501 B.C.E.	14:16:52	0808069.0950492	-2501	May 17 06:46:54	059402	LTU	Dec.	0.2650	2.2858	1.3469	311	196	079	12.8S	143.8E	13	02	2501	B.C.E.
03551	Nov 09 2501 B.C.E.	14:41:27	0808246.1121131	-2501	Nov 10 07:11:30	059402	LTU	Asc.	0.0673	2.7855	1.6846	376	233	103	11.3N	138.1E	13	08	2501	B.C.E.
03552	May 06 2500 B.C.E.	06:59:25	0808423.7912639	-2500	May 06 23:28:58	059374	LPU	Dec.	-0.4576	1.9989	1.0376	312	188	029	9.8S	106.3W	14	01	2500	B.C.E.
03553	Oct 29 2500 B.C.E.	17:29:38	0808600.2291420	-2500	Oct 30 09:59:34	059375	LPU	Asc.	0.7425	1.5225	0.4691	313	150	---	7.5N	95.9E	13	07	2500	B.C.E.
03554	Mar 27 2499 B.C.E.	07:06:38	0808748.7962703	-2499	Mar 27 23:35:46	059347	LNN	Dec.	1.4514	0.2171	-0.8269	138	---	---	7.1N	102.9W	14	12	2499	B.C.E.
03555	Apr 25 2499 B.C.E.	19:04:00	0808778.2944445	-2499	Apr 26 11:33:07	059347	LNN	Dec.	-1.2736	0.5278	-0.4855	202	---	---	6.5S	73.3E	15	01	2499	B.C.E.
03556	Sep 19 2499 B.C.E.	14:34:30	0808925.1906215	-2499	Sep 20 09:03:37	059347	LNN	Asc.	-1.3215	0.4194	-0.5531	168	---	---	10.6S	112.8E	14	06	2499	B.C.E.
03557	Oct 19 2499 B.C.E.	03:41:07	0808954.6535542	-2499	Oct 19 20:10:15	059347	LNN	Asc.	1.3723	0.3383	-0.6581	156	---	---	3.7N	56.7W	13	07	2499	B.C.E.
03558	Mar 16 2498 B.C.E.	08:52:55	0809126.7000859	-2498	Mar 17 01:21:35	059319	LPU	Dec.	0.7330	1.5512	0.4758	333	159	---	10.6N	123.8W	14	12	2498	B.C.E.
03559	Sep 09 2498 B.C.E.	08:34:08	0809279.8750313	-2498	Sep 10 01:02:46	059319	LPU	Asc.	-0.6535	1.6433	0.6744	291	158	---	13.9S	127.2W	14	06	2498	B.C.E.
03560	Mar 04 2497 B.C.E.	09:50:37	0809456.9101456	-2497	Mar 05 02:18:49	059291	LTU	Dec.	-0.0220	2.8467	1.7892	366	232	105	13.9N	142.8W	13	12	2497	B.C.E.
03561	Aug 28 2497 B.C.E.	22:29:34	0809634.4372040	-2497	Aug 29 14:57:42	059291	LTU	Asc.	0.0406	2.7872	1.7801	338	219	101	16.7S	23.7E	15	05	2497	B.C.E.
03562	Jan 27 2496 B.C.E.	16:39:51	0809811.1943431	-2496	Jan 28 09:07:35	059263	LPU	Dec.	-0.7619	1.4636	0.4565	298	146	---	16.6N	114.9E	13	11	2496	B.C.E.
03563	Aug 18 2496 B.C.E.	06:14:27	0809988.7600341	-2496	Aug 18 22:42:09	059263	LPU	Asc.	0.7971	1.4257	0.3658	313	138	---	19.0S	96.7W	14	05	2496	B.C.E.
03564	Jan 12 2495 B.C.E.	21:05:01	0810136.3784858	-2495	Jan 13 13:32:17	059235	LNN	Dec.	1.1706	0.6912	-0.2711	209	---	---	25.1N	40.9E	14	10	2495	B.C.E.
03565	Feb 11 2495 B.C.E.	06:09:20	0810165.7564843	-2495	Feb 11 22:36:35	059235	LNN	Dec.	-1.4315	0.2132	-0.7506	123	---	---	18.6N	87.8W	13	11	2495	B.C.E.
03566	Jul 08 2495 B.C.E.	15:05:59	0810313.1291550	-2495	Jul 09 07:33:14	059235	LNN	Asc.	-1.3752	0.3714	-0.7011	183	---	---	25.1S	131.8E	13	04	2495	B.C.E.
03567	Aug 07 2495 B.C.E.	07:27:57	0810342.8110771	-2495	Aug 07 23:55:13	059235	LNN	Asc.	1.5384	0.0787	-1.0074	087	---	---	20.6S	102.1W	14	05	2495	B.C.E.
03568	Jan 02 2494 B.C.E.	12:53:24	0810491.0370845	-2494	Jan 03 05:20:10	059207	LPU	Dec.	0.5081	1.9163	0.9349	308	183	---	24.3N	168.3E	14	10	2494	B.C.E.
03569	Jun 27 2494 B.C.E.	18:30:36	0810667.2712516	-2494	Jun 28 10:57:25	059207	LPU	Asc.	-0.5891	1.7918	0.7628	328	184	---	23.5S	79.8E	13	03	2494	B.C.E.
03570	Dec 23 2494 B.C.E.	00:40:09	0810845.5278802	-2494	Dec 23 17:06:53	059207	LPU	Dec.	-0.1931	2.5218	1.4861	346	219	092	22.6N	9.6W	15	09	2494	B.C.E.
03571	Jun 16 2493 B.C.E.	05:12:40	0811021.7171270	-2493	Jun 16 21:39:01	059179	LTU	Asc.	0.1952	2.4860	1.5134	327	210	092	21.0S	81.0W	13	03	2493	B.C.E.
03572	Dec 11 2493 B.C.E.	05:10:08	0811199.7153675	-2493	Dec 11 21:36:26	059179	LPU	Dec.	-0.9233	1.2094	0.1191	303	083	---	20.0N	78.0W	14	09	2493	B.C.E.
03573	Jun 05 2492 B.C.E.	21:18:56	0811376.3881535	-2492	Jun 06 13:44:48	059151	LPU	Asc.	0.9214	1.1377	0.1964	254	078	---	18.0S	37.5E	14	02	2492	B.C.E.
03574	Oct 31 2492 B.C.E.	09:28:02	0811523.8944645	-2492	Nov 01 01:53:52	059151	LNN	Dec.	1.4446	0.2529	-0.8373	152	---	---	8.9N	143.7W	13	07	2492	B.C.E.
03575	Apr 27 2491 B.C.E.	06:40:48	0811701.7783389	-2491	Apr 27 23:06:12	059124	LPU	Asc.	-0.8673	1.2538	0.2793	275	109	---	6.9S	100.8W	14	01	2491	B.C.E.
03576	Oct 20 2491 B.C.E.	14:21:48	0811878.0984714	-2491	Oct 21 06:47:13	059124	LPU	Dec.	0.7068	1.5790	0.5436	310	158	---	3.8N	143.5E	12	07	2491	B.C.E.
03577	Apr 16 2490 B.C.E.	16:48:54	0812056.2006278	-2490	Apr 17 09:13:48	059096	LTU	Asc.	-0.1126	2.6666	1.6366	356	227	101	2.0S	108.7E	15	01	2490	B.C.E.
03578	Oct 10 2490 B.C.E.	02:21:03	0812232.5979499	-2490	Oct 10 18:46:00	059096	LTU	Dec.	-0.0038	2.8429	1.8590	325	211	099	1.3S	35.5W	13	07	2490	B.C.E.
03579	Apr 04 2489 B.C.E.	19:50:25	0812410.3266774	-2489	Apr 05 12:14:52	059067	LPU	Asc.	0.6882	1.6666	0.5980	339	175	---	3.0N	64.0E	14	13	2489	B.C.E.
03580	Sep 28 2489 B.C.E.	17:58:19	0812587.2488319	-2489	Sep 29 10:22:46	059067	LPU	Dec.	-0.6692	1.6147	0.6452	289	155	---	6.3S	91.1E	14	06	2489	B.C.E.
03581	Feb 23 2488 B.C.E.	06:23:22	0812734.7662297	-2488	Feb 23 22:47:21	059039	LNN	Asc.	-1.4176											

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar			
	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Date and Time of Maximum Eclipse	Node		Gamma	Pen. Mag.	Umb. Mag.	Durations Pen.	Par. Tot.	Lat.	Lon.	Day	Month	Year	
03639	Jun	18	2466 B.C.E.	12:27:25	0820885.0190416	-2466 Jun 19	04:41:11	058426	LNN	Dec.	1.1869	0.6590	-0.2989	208	---	20.4S	170.7E	13 03 2466 B.C.E.	
03640	Jul	17	2466 B.C.E.	21:05:24	0820914.3787456	-2466 Jul 18	13:19:09	058426	LNN	Dec.	-1.3967	0.2887	-0.6984	147	---	25.3S	42.4E	13 04 2466 B.C.E.	
03641	Dec	13	2466 B.C.E.	08:00:27	0821062.8336441	-2466 Dec 14	00:14:12	058426	LPU	Asc.	-0.6211	1.7691	0.6687	347	182	20.6N	120.4W	14 09 2466 B.C.E.	
03642	Jun	07	2465 B.C.E.	05:22:49	0821239.7241810	-2465 Jun 07	21:36:09	058400	LTU	Dec.	0.4428	2.0159	1.0747	304	184	18.9S	83.5W	14 02 2465 B.C.E.	
03643	Dec	01	2465 B.C.E.	07:05:32	0821416.7955054	-2465 Dec 01	23:18:53	058400	LTU	Asc.	0.0603	2.7959	1.7000	374	233	18.5N	107.6W	13 08 2465 B.C.E.	
03644	Nov	27	2464 B.C.E.	21:39:17	0821594.9022816	-2464 Nov 28	13:52:08	058372	LTU	Dec.	-0.3058	2.2807	1.3129	322	203	16.8S	32.4E	15 02 2464 B.C.E.	
03645	Nov	20	2464 B.C.E.	10:40:57	0821770.9451070	-2464 Nov 21	02:53:50	058372	LPU	Asc.	0.7398	1.5243	0.4773	310	151	15.7N	162.1W	12 08 2464 B.C.E.	
03646	May	17	2463 B.C.E.	08:50:22	0821948.8683100	-2463 May 18	01:02:46	058344	LNN	Dec.	-1.1210	0.8114	-0.2088	246	---	14.2S	135.2W	14 02 2463 B.C.E.	
03647	Oct	11	2463 B.C.E.	10:15:46	0822095.9276159	-2463 Oct 12	02:28:10	058344	LNN	Asc.	-1.3330	0.3991	-0.5750	164	---	1.8S	153.6W	13 07 2463 B.C.E.	
03648	Nov	09	2463 B.C.E.	21:31:23	0822125.3967963	-2463 Nov 10	13:43:47	058344	LNN	Asc.	1.3668	0.3465	-0.6463	157	---	12.4N	35.0E	13 08 2463 B.C.E.	
03649	Apr	06	2462 B.C.E.	22:03:59	0822273.4194303	-2462 Apr 07	14:15:55	058316	LPU	Dec.	0.8911	1.2587	0.1880	309	104	2.5N	31.4E	14 13 2462 B.C.E.	
03650	Oct	01	2462 B.C.E.	02:01:23	0822450.5842978	-2462 Oct 01	18:13:19	058316	LPU	Asc.	-0.6807	1.5972	0.6207	290	154	5.5S	29.8W	14 06 2462 B.C.E.	
03651	Mar	25	2461 B.C.E.	23:43:33	0822627.4885799	-2461 Mar 26	15:55:03	058288	LTU	Dec.	0.1183	2.6643	1.6180	362	229	101	6.2N	7.4E	13 12 2461 B.C.E.
03652	Sep	19	2461 B.C.E.	15:09:00	0822805.1312549	-2461 Sep 20	07:20:26	058288	LTU	Asc.	-0.0011	2.8657	1.8464	342	220	101	9.2S	133.5E	14 06 2461 B.C.E.
03653	Mar	15	2460 B.C.E.	10:44:37	0822981.8264556	-2460 Mar 15	23:55:38	058260	LPU	Dec.	-0.6428	1.6757	0.6813	308	170	9.6N	112.3W	13 12 2460 B.C.E.	
03654	Sep	08	2460 B.C.E.	21:45:47	0823159.4067885	-2460 Sep 09	13:56:45	058260	LPU	Asc.	0.7403	1.5362	0.4640	324	154	12.5S	34.3E	15 06 2460 B.C.E.	
03655	Feb	03	2459 B.C.E.	13:55:53	0823504.8804708	-2459 Feb 04	06:06:26	058233	LNN	Dec.	1.2275	0.5834	-0.3724	193	---	22.7N	156.1E	13 11 2459 B.C.E.	
03656	Mar	04	2459 B.C.E.	22:07:09	0823336.4216290	-2459 Mar 05	14:17:42	058233	LNN	Dec.	-1.3327	0.3898	-0.5647	162	---	12.6N	32.4E	14 12 2459 B.C.E.	
03657	Jul	30	2459 B.C.E.	05:03:39	0823483.7108877	-2459 Jul 30	21:14:12	058233	LNN	Asc.	-1.4908	0.1610	-0.9151	123	---	24.4S	75.8W	13 04 2459 B.C.E.	
03658	Aug	28	2459 B.C.E.	22:11:27	0823513.4246183	-2459 Aug 29	14:22:00	058233	LNN	Asc.	1.4586	0.2290	-0.8648	147	---	15.6S	27.7E	14 05 2459 B.C.E.	
03659	Jan	24	2458 B.C.E.	05:50:25	0824370.7833410	-2458 Jan 24	22:00:29	058205	LPU	Dec.	0.5550	1.8297	0.8496	306	177	23.7N	83.6W	14 10 2458 B.C.E.	
03660	Jul	19	2458 B.C.E.	09:00:27	0823837.8753101	-2458 Jul 19	01:10:33	058205	LPU	Asc.	-0.7104	1.5685	0.5409	313	160	24.6S	136.0W	13 04 2458 B.C.E.	
03661	Jan	13	2457 B.C.E.	17:12:24	0824016.2169390	-2457 Jan 14	09:21:58	058177	LTU	Dec.	-0.1604	2.5821	1.5456	349	222	096	23.8N	104.7E	15 10 2457 B.C.E.
03662	Jul	07	2457 B.C.E.	20:21:23	0824192.3481847	-2457 Jul 08	12:31:02	058177	LTU	Asc.	0.0662	2.7220	1.7507	328	212	100	23.8S	52.8E	13 04 2457 B.C.E.
03663	Jan	01	2456 B.C.E.	21:09:59	0824370.3819349	-2456 Jan 02	13:19:08	058149	LPU	Dec.	-0.8994	1.2526	0.1638	307	097	23.0N	40.0E	14 10 2456 B.C.E.	
03664	Jun	27	2456 B.C.E.	12:37:32	0824457.0260686	-2456 Jun 28	04:46:42	058150	LPU	Asc.	0.7875	1.3849	0.4408	273	126	22.5S	168.2E	13 03 2456 B.C.E.	
03665	Nov	22	2456 B.C.E.	02:05:31	0824694.8971620	-2456 Nov 22	18:14:41	058150	LNN	Dec.	1.4383	0.2619	-0.8233	153	---	16.9N	33.2W	13 08 2456 B.C.E.	
03666	Dec	21	2456 B.C.E.	20:28:35	0824724.3531821	-2456 Dec 22	12:37:44	058150	LNN	Dec.	-1.5795	0.0092	-1.0887	030	---	21.3N	53.3E	14 09 2456 B.C.E.	
03667	May	18	2455 B.C.E.	21:07:48	0824847.3804154	-2455 May 19	13:16:30	058122	LNN	Asc.	-1.0254	0.9669	-0.1440	251	---	1.7N	40.6E	15 02 2455 B.C.E.	
03668	Jun	17	2455 B.C.E.	05:17:21	0824901.7203848	-2455 Jun 17	21:26:04	058122	LNN	Asc.	1.5278	0.0349	-0.9257	051	---	19.8S	82.0W	14 03 2455 B.C.E.	
03669	Nov	11	2455 B.C.E.	07:45:16	0825048.8230993	-2455 Nov 11	23:53:59	058122	LPU	Dec.	0.6980	1.5924	0.5623	308	159	12.4N	118.1W	13 08 2455 B.C.E.	
03670	Mar	08	2454 B.C.E.	06:20:15	0825226.7640621	-2454 Mar 08	22:28:27	058094	LTU	Asc.	-0.2787	2.3645	1.3293	354	221	083	10.3S	96.5W	14 01 2454 B.C.E.
03671	Oct	31	2454 B.C.E.	20:15:09	0825403.3438487	-2454 Oct 31	12:23:23	058094	LTU	Dec.	-0.0051	2.8398	1.8573	324	210	099	7.7N	54.9E	13 07 2454 B.C.E.
03672	Apr	26	2453 B.C.E.	08:44:46	0825580.8644215	-2453 Apr 27	00:52:32	058067	LPU	Asc.	0.4987	1.9770	0.9094	355	204	5.6S	131.3W	14 01 2453 B.C.E.	
03673	Oct	20	2453 B.C.E.	11:49:32	0825757.9927347	-2453 Oct 21	03:57:19	058067	LPU	Dec.	-0.6643	1.6260	0.6518	290	156	2.7N	178.0W	13 07 2453 B.C.E.	
03674	Mar	16	2452 B.C.E.	20:45:30	0825903.3696263	-2452 Mar 17	12:52:49	058039	LNN	Asc.	-1.5271	0.0731	-0.9606	080	---	8.2N	52.2E	13 12 2452 B.C.E.	
03675	Apr	15	2452 B.C.E.	09:49:50	0825954.9096025	-2452 Apr 16	01:57:08	058039	LNN	Asc.	1.2439	0.6020	-0.4500	224	---	0.6S	146.1W	13 01 2452 B.C.E.	
03676	Sep	10	2452 B.C.E.	12:40:16	0826083.0279639	-2452 Sep 11	04:47:35	058039	LNN	Dec.	1.4230	0.2638	-0.7695	146	---	11.3S	170.6E	14 06 2452 B.C.E.	
03677	Oct	10	2452 B.C.E.	01:48:45	0826112.5755211	-2452 Oct 11	17:56:04	058039	LNN	Dec.	-1.3710	0.3474	-0.6623	161	---	2.3S	27.1W	14 07 2452 B.C.E.	
03678	Mar	06	2451 B.C.E.	06:43:03	0826259.7798940	-2451 Mar 06	22:49:54	058011	LPU	Asc.	-0.7176	1.5321	0.5503	295	151	12.6N	96.2W	13 12 2451 B.C.E.	
03679	Aug	30	2451 B.C.E.	17:18:02	0826437.2208610	-2451 Aug 31	09:24:53	058011	LPU	Dec.	0.7653	1.4949	0.4135	325	148	15.5S	101.4E	15 05 2451 B.C.E.	
03680	Feb	23	2450 B.C.E.	22:08:14	0826614.4223808	-2450 Feb 24	14:14:36	057983	LTU	Asc.	0.0246	2.7887	1.8366	318	206	099	16.7N	33.0E	14 11 2450 B.C.E.
03681	Aug	19	2450 B.C.E.	17:03:37	0826791.2108496	-2450 Aug 20	09:10:01	057983	LTU	Dec.	0.0607	2.7914	1.7029	376	235	105	19.3S	105.0E	14 05 2450 B.C.E.
03682	Jul	13	2449 B.C.E.	14:40:19	0826969.1113310	-2449 Jul 14	06:46:14	057956	LPU	Asc.	0.7391	1.4845	0.5189	284	142	20.2N	145.1E	14 11 2449 B.C.E.	
03683	Aug	07	2449 B.C.E.	19:20:25	0827145.3058443	-2449 Aug 08	11:26:22	057956	LPU	Dec.	-0.6604	1.6697	0.6233	325	171	22.3S	70.4E	13 05 2449 B.C.E.	
03684	Jan	03	2448 B.C.E.	13:59:34	0827294.0830315	-2448 Jan 04	06:05:02	057928	LNN	Asc.	-1.2973	0.5057	-0.5499	203	---	22.7N	152.1E	14 10 2448 B.C.E.	
03685	Feb	02	2448 B.C.E.	03:40:17	0827323.6529722	-2448 Feb 02	19:45:46	057928	LNN	Asc.	1.5095	0.0967	-0.9197	089	---	23.2N	50.3W	15 11 2448 B.C.E.	
03686	Jun	28	2448 B.C.E.	20:05:17	0827470.3370011	-2448 Jun 29	12:10:45	057928	LNN	Dec.	1.2473	0.5481	-0.4096	191	---	21.9S	56.6E	14 03 2448 B.C.E.	
03687	Jul	28	2448 B.C.E.	04:53:53	0827499.7040873	-2448 Jul 28	20:59:21	057928	LNN	Dec.	-1.3438	0.3858	-0.6012	167	---	24.6S	73.8W	13 04 2448 B.C.E.	
03688	Dec	23	2448 B.C.E.	15:58:13	0827648.1654312	-2448 Dec 24	08:03:42	057929	LPU	Asc.	-0.6346	1.7435	0.6445	346	180	22.4N	121.1E	14 09 2448 B.C.E.	
03689	Jan	18	2447 B.C.E.	13:00:03	0827825.0417020	-2447 Jan 19	05:05:04	057901	LPU	Dec.	0.5126	1.8890	0.9456	300	176	21.1S	162.3E	14 03 2447 B.C.E.	
03690	Dec	12	2447 B.C.E.	15:13:26	0828002.1343263	-2447 Dec 13	07:18:28	057901	LTU	Asc.	0.0530	2.8073	1.7151	373	233	104	21.1N	13	

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)	(TD)	Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar				
												Pen.	Par.		Lat.	Lon.	Day	Month	Year		
03746	Apr 05 2424	B. C. E.	22: 27: 59	0836152.4360973	-2424	Apr 06 14: 22: 27	057267	LPU	Dec.	-0.5019	1.9287	0.9454	317	189	---	1. 4N	24. 8E	13 13	2424	B. C. E.	
03747	Sep 30 2424	B. C. E.	13: 46: 13	0836330.0737561	-2424	Oct 01 05: 40: 39	057267	LPU	Asc.	0.7097	1.5978	0.5148	330	161	---	4. 3S	153. 3E	14 06	2424	B. C. E.	
03748	Feb 25 2423	B. C. E.	06: 13: 52	0836477.7596349	-2423	Feb 25 22: 07: 52	057239	LNN	Dec.	1.3121	0.4252	-0.5247	168	---	---	17. 3N	87. 8W	14 11	2423	B. C. E.	
03749	Mar 26 2423	B. C. E.	13: 38: 40	0836507.0685216	-2423	Mar 27 05: 32: 39	057239	LNN	Dec.	-1.2112	0.6089	-0.3381	198	---	---	4. 9N	157. 9E	13 12	2423	B. C. E.	
03750	Aug 20 2423	B. C. E.	19: 42: 09	0836654.3209419	-2423	Aug 21 11: 36: 09	057239	LNN	Asc.	-1.5753	0.0078	-1.0719	027	---	---	20. 3S	65. 9E	14 05	2423	B. C. E.	
03751	Sep 19 2423	B. C. E.	13: 32: 23	0836684.0641538	-2423	Sep 20 05: 26: 22	057239	LNN	Asc.	1.4068	0.3272	-0.7728	174	---	---	8. 1S	157. 0E	13 06	2423	B. C. E.	
03752	Feb 14 2422	B. C. E.	22: 09: 26	0836832.4232123	-2422	Feb 15 14: 02: 56	057212	LPU	Dec.	0.6316	1.6884	0.7096	300	166	---	---	19. 6N	33. 0E	15 11	2422	B. C. E.
03753	Aug 10 2422	B. C. E.	00: 11: 04	0837008.5076806	-2422	Aug 10 16: 04: 36	057212	LPU	Asc.	-0.8025	1.3993	0.3721	300	135	---	---	22. 2S	2. 0W	13 05	2422	B. C. E.
03754	Feb 04 2421	B. C. E.	09: 04: 06	0837186.8778428	-2421	Feb 05 00: 57: 07	057184	LPU	Dec.	-0.0976	2.6974	1.6609	352	225	101	21. 3N	131. 4W	14 11	2421	B. C. E.	
03755	Jul 29 2421	B. C. E.	12: 01: 46	0837363.0012234	-2421	Jul 30 03: 54: 53	057185	LTU	Asc.	-0.0395	2.7714	1.7995	326	211	100	23. 1S	179. 4E	13 04	2421	B. C. E.	
03756	Jan 23 2420	B. C. E.	12: 32: 57	0837541.0228853	-2420	Jan 24 04: 25: 34	057157	LPU	Dec.	-0.8470	1.3471	0.2616	316	121	---	22. 4N	175. 5E	14 10	2420	B. C. E.	
03757	Jul 19 2420	B. C. E.	04: 19: 35	0837717.6802664	-2420	Jul 19 20: 12: 12	057157	LPU	Asc.	0.6724	1.5986	0.6495	286	152	---	23. 2S	66. 0W	14 04	2420	B. C. E.	
03758	Dec 13 2420	B. C. E.	18: 35: 45	0837865.2748298	-2420	Dec 14 10: 28: 22	057157	LNN	Dec.	1.4399	0.2548	-0.8222	150	---	---	22. 7N	80. 5E	13 09	2420	B. C. E.	
03759	Jun 12 2419	B. C. E.	12: 05: 08	0837895.0035603	-2419	Jun 13 03: 57: 17	057130	LNN	Dec.	-1.5367	0.0834	-1.0058	089	---	---	22. 5N	178. 7W	13 10	2419	B. C. E.	
03760	Jun 09 2419	B. C. E.	18: 35: 45	0838042.9806166	-2419	Jun 10 03: 24: 15	057130	LNN	Asc.	-1.1811	0.6858	-0.3040	220	---	---	21. 0S	176. 1W	14 03	2419	B. C. E.	
03761	Jul 08 2419	B. C. E.	20: 27: 22	0838072.3523359	-2419	Jul 09 12: 19: 32	057130	LNN	Asc.	1.4129	0.2507	-0.7197	135	---	---	22. 5S	51. 3E	15 04	2419	B. C. E.	
03762	Dec 03 2419	B. C. E.	01: 10: 42	0838219.5490948	-2419	Dec 03 17: 02: 53	057130	LPU	Dec.	0.6909	1.6015	0.5793	306	160	---	19. 5N	18. 9W	13 09	2419	B. C. E.	
03763	May 29 2418	B. C. E.	19: 42: 05	0838397.3208928	-2418	May 30 11: 33: 46	057102	LTU	Asc.	-0.4480	2.0574	1.0148	347	207	020	17. 5S	61. 6E	15 02	2418	B. C. E.	
03764	Nov 22 2418	B. C. E.	14: 14: 35	0838574.0934586	-2418	Nov 23 06: 06: 17	057102	LTU	Dec.	-0.0097	2.8297	1.8507	323	209	098	15. 7N	144. 8E	13 08	2418	B. C. E.	
03765	Mar 17 2417	B. C. E.	21: 30: 22	0838751.3960858	-2417	Mar 18 13: 21: 37	057075	LTU	Asc.	0.3220	2.3016	1.2336	367	224	074	13. 4S	35. 3E	14 02	2417	B. C. E.	
03766	Nov 11 2417	B. C. E.	05: 51: 21	0839273.7439926	-2417	Nov 11 21: 42: 35	057075	LPU	Dec.	-0.6696	1.6178	0.6407	290	156	---	11. 4N	89. 3W	14 08	2417	B. C. E.	
03767	May 06 2416	B. C. E.	23: 01: 37	0839105.4594580	-2416	May 07 14: 52: 25	057047	LNN	Asc.	1.0729	0.9122	-0.1329	266	---	---	8. 9S	13. 6E	13 01	2416	B. C. E.	
03768	Oct 02 2416	B. C. E.	05: 18: 11	0839253.7209580	-2416	Oct 02 21: 08: 58	057047	LNN	Dec.	1.4548	0.2113	-0.8337	132	---	---	2. 8S	79. 9W	14 06	2416	B. C. E.	
03769	Oct 31 2416	B. C. E.	19: 20: 02	0839283.3055750	-2416	Nov 01 11: 10: 48	057047	LNN	Dec.	-1.3801	0.3348	-0.6830	159	---	---	6. 7N	69. 0E	15 07	2416	B. C. E.	
03770	Mar 27 2415	B. C. E.	21: 50: 51	0839430.4103119	-2415	Mar 28 13: 41: 12	057020	LPU	Dec.	-0.8355	1.3104	0.3395	277	118	---	4. 6N	35. 1E	13 12	2415	B. C. E.	
03771	Sep 21 2415	B. C. E.	08: 52: 46	0839607.8699805	-2415	Sep 22 00: 43: 06	057020	LPU	Dec.	0.8126	1.4131	0.3216	321	133	---	7. 8S	132. 8W	14 06	2415	B. C. E.	
03772	Mar 17 2414	B. C. E.	13: 55: 29	0839784.8081953	-2414	Mar 18 05: 45: 21	056992	LTU	Asc.	-0.8155	2.6738	1.7282	317	205	098	9. 3N	155. 1E	13 12	2414	B. C. E.	
03773	Sep 10 2414	B. C. E.	08: 13: 13	0839961.8425150	-2414	Sep 11 00: 03: 06	056992	LTU	Dec.	0.1230	2.6794	1.5863	375	233	101	12. 6S	122. 3W	13 06	2414	B. C. E.	
03774	Mar 06 2413	B. C. E.	06: 34: 11	0840139.7737393	-2413	Mar 06 22: 23: 36	056965	LPU	Asc.	0.6454	1.6556	0.6916	295	161	---	13. 7N	93. 7W	14 12	2413	B. C. E.	
03775	Aug 29 2413	B. C. E.	10: 52: 33	0840315.9531606	-2413	Aug 30 02: 41: 59	056965	LPU	Dec.	-0.5854	1.8075	0.7606	330	184	---	16. 9S	161. 9W	13 05	2413	B. C. E.	
03776	Jan 25 2412	B. C. E.	05: 52: 05	0840464.7445067	-2412	Jan 25 21: 41: 02	056937	LNN	Asc.	-1.3560	0.3978	-0.6574	183	---	---	21. 6N	84. 0W	14 10	2412	B. C. E.	
03777	Feb 23 2412	B. C. E.	19: 10: 11	0840494.2987409	-2412	Feb 24 10: 59: 09	056938	LNN	Asc.	1.4346	0.2342	-0.7826	137	---	---	17. 8N	77. 8E	15 11	2412	B. C. E.	
03778	Jul 20 2412	B. C. E.	11: 40: 49	0840640.9868006	-2412	Jul 21 03: 29: 47	056938	LNN	Dec.	1.3530	0.3546	-0.6042	156	---	---	22. 4S	176. 0W	13 04	2412	B. C. E.	
03779	Aug 18 2412	B. C. E.	20: 57: 41	0840670.3733886	-2412	Aug 19 12: 46: 39	056938	LNN	Dec.	-1.2580	0.5434	-0.4441	194	---	---	20. 6S	46. 7E	13 05	2412	B. C. E.	
03780	Jan 14 2411	B. C. E.	07: 29: 24	0840818.8120808	-2411	Jan 14 23: 17: 55	056911	LPU	Asc.	-0.6809	1.6562	0.5618	341	170	---	23. 2N	109. 4W	14 10	2411	B. C. E.	
03781	Jul 10 2411	B. C. E.	04: 28: 53	0840995.8867290	-2411	Jul 10 20: 17: 24	056911	LPU	Dec.	0.6392	1.6596	0.7102	290	158	---	23. 3S	68. 5W	14 04	2411	B. C. E.	
03782	Jan 03 2410	B. C. E.	07: 12: 57	0841172.6065833	-2410	Jan 03 23: 01: 01	056883	LTU	Asc.	0.0234	2.8568	1.7740	371	232	104	23. 9N	106. 8W	13 10	2410	B. C. E.	
03783	Jun 29 2410	B. C. E.	19: 48: 11	0841350.3251306	-2410	Jun 30 11: 36: 12	056883	LTU	Dec.	-0.0926	2.6792	1.6970	333	215	099	23. 3S	60. 6E	15 03	2410	B. C. E.	
03784	Dec 23 2410	B. C. E.	12: 14: 22	0841527.0099729	-2410	Dec 24 04: 02: 26	056883	LPU	Asc.	0.7196	1.5540	0.5217	308	155	---	23. 6N	176. 7E	12 09	2410	B. C. E.	
03785	Jun 18 2409	B. C. E.	05: 24: 14	0841704.7251632	-2409	Jun 18 21: 11: 50	056856	LPU	Dec.	-0.8926	1.2378	0.2031	294	105	---	22. 5S	84. 1W	15 03	2409	B. C. E.	
03786	Nov 12 2409	B. C. E.	13: 17: 20	0841852.0537032	-2409	Nov 13 05: 04: 56	056856	LNN	Asc.	-1.3302	0.4038	-0.5696	165	---	---	11. 3N	159. 6E	13 08	2409	B. C. E.	
03787	Dec 12 2409	B. C. E.	00: 14: 25	0841881.5100120	-2409	Dec 12 16: 02: 01	056856	LNN	Asc.	1.3552	0.3632	-0.6203	159	---	---	22. 4N	4. 6W	13 09	2409	B. C. E.	
03788	May 08 2408	B. C. E.	17: 18: 14	0842029.2209978	-2408	May 09 09: 05: 22	056828	LNN	Dec.	1.1519	0.7779	-0.2883	255	---	---	9. 6S	99. 5E	14 02	2408	B. C. E.	
03789	Nov 02 2408	B. C. E.	04: 46: 40	0842206.6990785	-2408	Nov 02 20: 33: 48	056828	LPU	Asc.	-0.6913	1.5821	0.5969	291	154	---	7. 9N	72. 8W	14 08	2408	B. C. E.	
03790	Apr 27 2407	B. C. E.	20: 04: 55	0842383.3674559	-2407	Apr 28 11: 51: 38	056801	LTU	Dec.	0.3580	2.2173	1.1852	348	214	066	6. 2S	58. 5E	13 01	2407	B. C. E.	
03791	Oct 22 2407	B. C. E.	16: 49: 31	0842561.2010526	-2407	Oct 23 08: 36: 10	056801	LTU	Asc.	-0.0178	2.8427	1.8082	346	222	101	4. 2N	106. 6E	15 07	2407	B. C. E.	
03792	Jul 17 2406	B. C. E.	05: 45: 25	0842737.7398684	-2406	Jul 17 21: 31: 39	056773	LPU	Dec.	-0.4265	2.0647	1.0862	321	196	044	2. 7S	85. 8W	13 01	2406	B. C. E.	
03793	Oct 11 2406	B. C. E.	21: 54: 53	0842915.4131166	-2406	Oct 12 13: 41: 06	056773	LPU													

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar	
	Month	Day	Time (UT)	Day	Time (UT)								Pen.	Par.	Lat.	Lon.	Day	Month
03853	Jun	20	2382 B.C.E.	09:07:50	0851567.8804373	-2382 Jun 21 00:43:08	056119	LPU	Asc.	-0.6104	1.7641	0.7124	337	184	---	22.5S	139.7W	14 03 2382 B.C.E.
03854	Dec	14	2382 B.C.E.	08:07:09	0851474.8383016	-2382 Dec 14 23:42:28	056119	LTU	Dec.	-0.0067	2.8325	1.8586	321	208	098	21.4N	122.2W	13 09 2382 B.C.E.
03855	Jun	08	2381 B.C.E.	10:19:28	0851921.9301827	-2381 Jun 09 01:54:20	056092	LPU	Asc.	0.1474	2.6229	1.5529	373	234	101	19.6S	157.8W	14 03 2381 B.C.E.
03856	Dec	02	2381 B.C.E.	23:50:14	0852099.4932227	-2381 Dec 03 15:25:06	056092	LPU	Dec.	-0.6736	1.6110	0.6328	291	156	---	18.3N	1.4E	14 09 2381 B.C.E.
03857	May	28	2380 B.C.E.	12:19:16	0852276.0133805	-2380 May 29 03:53:42	056065	LPU	Asc.	0.9012	1.2246	0.1846	296	101	---	16.1S	172.6E	13 02 2380 B.C.E.
03858	Oct	23	2380 B.C.E.	22:14:11	0852424.4265124	-2380 Oct 24 13:48:35	056065	LNN	Dec.	1.4684	0.1913	-0.8633	127	---	---	6.2N	24.9E	15 07 2380 B.C.E.
03859	Nov	22	2380 B.C.E.	00:54:51	0852454.0361958	-2380 Nov 23 04:26:32	056065	LNN	Dec.	-1.3932	0.3136	-0.7099	155	---	---	14.6N	165.7E	14 08 2380 B.C.E.
03860	Apr	18	2379 B.C.E.	12:42:05	0852601.0292262	-2379 Apr 19 04:16:03	056037	LPU	Asc.	-0.9693	1.0603	0.0983	254	054	---	4.0S	169.8E	13 01 2379 B.C.E.
03861	Oct	13	2379 B.C.E.	00:54:51	0852778.5380872	-2379 Oct 13 16:28:48	056037	LPU	Asc.	0.8350	1.3761	0.2768	320	124	---	1.0N	14.5W	14 07 2379 B.C.E.
03862	Apr	08	2378 B.C.E.	05:18:14	0852955.7209987	-2378 Apr 08 20:51:44	056010	LTU	Asc.	-0.2162	2.4317	1.4904	314	200	089	0.8N	77.8W	14 13 2378 B.C.E.
03863	Oct	01	2378 B.C.E.	23:58:46	0853132.4991416	-2378 Oct 02 15:32:17	056010	LTU	Asc.	0.1565	2.6193	1.5232	374	231	098	4.2S	0.4E	13 06 2378 B.C.E.
03864	Mar	27	2377 B.C.E.	21:55:17	0853310.4133870	-2377 Mar 28 13:28:19	055983	LPU	Asc.	0.5271	1.8728	0.9086	307	180	---	5.6N	34.3E	15 12 2377 B.C.E.
03865	Sep	20	2377 B.C.E.	03:06:21	0853486.6294063	-2377 Sep 20 18:39:26	055984	LPU	Asc.	-0.5416	1.8877	0.8412	332	189	---	9.2S	45.8W	13 06 2377 B.C.E.
03866	Feb	15	2376 B.C.E.	21:00:48	0853635.3755534	-2376 Feb 16 12:33:24	055957	LNN	Asc.	-1.4455	0.2331	-0.8212	143	---	---	17.3N	49.7E	15 11 2376 B.C.E.
03867	Mar	17	2376 B.C.E.	09:58:30	0853664.9156302	-2376 Mar 18 01:31:07	055957	LNN	Asc.	1.3303	0.4262	-0.5918	183	---	---	10.3N	145.3W	14 12 2376 B.C.E.
03868	Aug	11	2376 B.C.E.	03:49:43	0853811.6595217	-2376 Aug 11 19:22:19	055957	LNN	Dec.	1.4336	0.2081	-0.7534	121	---	---	19.6S	57.0W	13 05 2376 B.C.E.
03869	Sep	09	2376 B.C.E.	13:40:20	0853841.0696736	-2376 Sep 10 10:12:57	055957	LNN	Dec.	-1.2017	0.6473	-0.3410	209	---	---	13.9S	156.2E	13 06 2376 B.C.E.
03870	Feb	04	2375 B.C.E.	22:22:37	0853989.4323711	-2375 Feb 05 13:54:46	055929	LPU	Asc.	-0.7559	1.5154	0.4273	331	152	---	20.5N	29.0E	14 11 2375 B.C.E.
03871	Jul	31	2375 B.C.E.	20:23:20	0854166.3495416	-2375 Aug 01 11:55:29	055929	LPU	Asc.	0.7430	1.4733	0.5159	281	139	---	25.9S	54.1E	14 04 2375 B.C.E.
03872	Jan	24	2374 B.C.E.	22:42:55	0854343.4464727	-2374 Jan 25 14:14:40	055902	LTU	Asc.	-0.0319	2.8355	1.7641	368	232	104	22.9N	23.2E	13 10 2374 B.C.E.
03873	Jul	21	2374 B.C.E.	10:56:01	0854520.9555633	-2374 Jul 22 02:27:41	055902	LTU	Asc.	0.0262	2.8070	1.8128	337	219	101	23.7S	164.2E	14 04 2374 B.C.E.
03874	Jan	14	2373 B.C.E.	04:51:38	0854697.7025269	-2373 Jan 14 20:22:54	055875	LPU	Asc.	0.6820	1.6168	0.5967	309	163	---	24.5N	70.1W	13 10 2373 B.C.E.
03875	Jul	09	2373 B.C.E.	19:21:28	0854875.3065796	-2373 Jul 10 10:52:43	055875	LPU	Asc.	-0.7562	1.4939	0.4476	317	151	---	24.6S	67.9E	15 04 2373 B.C.E.
03876	Dec	04	2373 B.C.E.	07:18:14	0855022.8043266	-2373 Dec 04 22:49:29	055875	LNN	Asc.	-1.3300	0.4029	-0.5678	164	---	---	18.1N	110.1W	13 09 2373 B.C.E.
03877	Jan	02	2373 B.C.E.	17:43:17	0855228.6283950	-2372 Dec 03 09:14:05	055848	LNN	Asc.	1.3308	0.4038	-0.5716	166	---	---	25.2N	95.7E	14 10 2373 B.C.E.
03878	May	30	2372 B.C.E.	06:07:15	0855199.7550326	-2372 May 30 21:38:02	055848	LNN	Dec.	1.3241	0.4612	-0.6038	202	---	---	16.3S	94.1W	14 02 2372 B.C.E.
03879	Jun	28	2372 B.C.E.	21:14:08	0855228.3848199	-2372 Jun 29 12:44:56	055848	LNN	Dec.	-1.5279	0.0918	-0.9818	094	---	---	24.5S	38.8E	14 03 2372 B.C.E.
03880	Nov	23	2372 B.C.E.	22:42:05	0855377.4448871	-2372 Nov 24 14:12:52	055848	LPU	Asc.	-0.6928	1.5811	0.5926	292	154	---	15.7N	18.2E	14 08 2372 B.C.E.
03881	May	19	2371 B.C.E.	09:37:39	0855553.9011443	-2371 May 20 01:08:00	055820	LPU	Asc.	0.5235	1.9101	0.8852	334	195	---	13.7S	146.5W	13 02 2371 B.C.E.
03882	Nov	13	2371 B.C.E.	10:08:27	0855731.9225299	-2371 Nov 14 01:38:45	055820	LTU	Asc.	-0.0169	2.8480	1.8064	349	223	102	12.7N	153.8W	14 08 2371 B.C.E.
03883	Nov	08	2370 B.C.E.	20:16:55	0855908.3405817	-2370 Nov 09 11:46:50	055793	LTU	Asc.	-0.2694	2.3490	1.3782	325	206	084	10.7S	54.2E	13 02 2370 B.C.E.
03884	Nov	02	2370 B.C.E.	14:22:10	0856086.9987268	-2370 Nov 03 05:52:02	055793	LPU	Asc.	0.6958	1.6288	0.5349	335	165	---	9.1N	142.7E	14 08 2370 B.C.E.
03885	Mar	29	2369 B.C.E.	05:43:38	0856233.3786367	-2369 Mar 29 21:13:04	055766	LNN	Dec.	1.4863	0.1026	-0.8414	085	---	---	5.9N	82.4W	14 13 2369 B.C.E.
03886	Apr	27	2369 B.C.E.	12:22:32	0856263.0156528	-2369 Apr 28 03:51:58	055766	LNN	Dec.	-0.9985	0.9958	0.0555	242	051	---	7.6S	173.4E	13 01 2369 B.C.E.
03887	Oct	21	2369 B.C.E.	13:30:40	0856440.0629676	-2369 Oct 22 05:00:06	055766	LNN	Asc.	1.3711	0.3949	-0.7095	190	---	---	5.1N	155.7E	13 07 2369 B.C.E.
03888	Mar	18	2368 B.C.E.	21:27:52	0856588.3943500	-2368 Mar 19 12:56:50	055739	LPU	Asc.	0.8005	1.3786	0.3996	284	131	---	9.3N	42.2E	15 12 2368 B.C.E.
03889	Sep	11	2368 B.C.E.	00:15:39	0856764.5108709	-2368 Sep 11 15:44:40	055740	LPU	Asc.	-0.8837	1.2509	0.2232	285	106	---	13.0S	2.6W	13 06 2368 B.C.E.
03890	Mar	08	2367 B.C.E.	07:31:23	0856942.8134600	-2367 Mar 08 22:59:54	055713	LTU	Asc.	0.0566	2.7728	1.7361	356	228	103	12.5N	108.2W	14 12 2367 B.C.E.
03891	Aug	31	2367 B.C.E.	12:42:01	0857119.0291737	-2367 Sep 01 04:10:35	055713	LTU	Asc.	-0.1452	2.5789	1.6043	323	208	094	15.9S	170.6E	13 05 2367 B.C.E.
03892	Feb	25	2366 B.C.E.	10:18:18	0857296.9293769	-2366 Feb 26 01:46:23	055685	LPU	Asc.	-0.7056	1.6030	0.5243	336	165	---	15.4N	149.8W	14 11 2366 B.C.E.
03893	Aug	21	2366 B.C.E.	04:49:43	0857473.7011972	-2366 Aug 21 20:17:48	055685	LPU	Asc.	0.5476	1.8328	0.8734	298	173	---	18.3S	71.7W	14 05 2366 B.C.E.
03894	Jan	15	2365 B.C.E.	18:42:49	0857621.2797354	-2365 Jan 16 10:10:28	055658	LNN	Dec.	1.4783	0.1758	-0.8842	124	---	---	25.1N	82.6E	13 10 2365 B.C.E.
03895	Feb	14	2365 B.C.E.	10:25:48	0857650.9345821	-2365 Feb 15 01:53:26	055658	LNN	Dec.	-1.4159	0.2969	-0.7762	164	---	---	17.9N	151.9W	13 11 2365 B.C.E.
03896	Jul	11	2365 B.C.E.	09:28:08	0857798.8945369	-2365 Jul 12 00:55:46	055658	LNN	Asc.	-1.3901	0.3110	-0.6961	156	---	---	25.3S	143.4W	14 04 2365 B.C.E.
03897	Aug	09	2365 B.C.E.	19:57:41	0857878.3317263	-2365 Aug 10 11:25:19	055658	LNN	Asc.	1.2807	0.5021	-0.4858	188	---	---	20.0S	60.7E	15 05 2365 B.C.E.
03898	Jan	04	2364 B.C.E.	02:52:03	0857975.6194778	-2364 Jan 04 18:19:15	055631	LPU	Asc.	0.7095	1.5595	0.5530	300	156	---	24.6N	41.1W	13 10 2364 B.C.E.
03899	Jun	30	2364 B.C.E.	15:56:05	0858153.1639522	-2364 Jun 01 07:23:16	055631	LPU	Asc.	-0.6857	1.6284	0.5717	330	169	---	24.0S	118.8E	14 03 2364 B.C.E.
03900	Dec	24	2364 B.C.E.	16:56:16	0858330.2057370	-2364 Dec 25 08:23:28	055631	LTU	Asc.	0.0013	2.8410	1.8703	321	208	098	23.1N	106.6E	14 09 2364 B.C.E.
03901	Jun	19	2363 B.C.E.	16:50:10	0858507.2015012	-2363 Jun 20 08:16:54	055604	LTU	Asc.	0.0647	2.7755	1.7039	375	236	105	21.9S	104.7E	14 03 2363 B.C.E.
03902	Dec	14	2363 B.C.E.	08:44:44	0858684.8643954	-2363 Dec 15 00:11:27	055604	LPU	Asc.	-0.6722	1.6135	0.6356	291	156	---	20.8N	131.5W	14 09 2363 B.C.E.
03903	Jun	08	2362 B.C.E.	19:03:01	0858861.2937656	-2362 Jun 09 10:29:19	055577	LPU	Asc.	0.8174	1.3774	0.3392	307	133	---	19.0S	71.4E	14 03 2362 B.C.E.
03904	Nov	04	2362 B.C.E.	06:46:15	0859009.7821221	-2362 Nov 04 22:12:33	055577	LNN	Dec.	1.4706	0.1892	-0.8691	127	---	---			

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar	Date on the Calendar					
										Pen.	Par.	Lat.	Lon.							
03960	Apr 08 2340 B.C.E.	00:12:54	0866835.5089558	-2340	Apr 08	15:29:17	054984	LNN	Asc.	1.2019	0.6633	-0.3576	225	---	1.9N	1.1W	15 13	2340	B.C.E.	
03961	Sep 01 2340 B.C.E.	20:34:19	0866982.3571663	-2340	Sep 02	11:50:43	054984	LNN	Dec.	1.4870	0.1120	-0.8530	089	---	13.8S	52.1E	14 05	2340	B.C.E.	
03962	Oct 01 2340 B.C.E.	06:57:11	0867011.7897050	-2340	Oct 01	22:13:34	054984	LNN	Dec.	-1.1718	0.7022	-0.2864	215	---	5.4S	103.9W	13 06	2340	B.C.E.	
03963	Feb 26 2339 B.C.E.	12:35:42	0867160.0247966	-2339	Feb 27	03:51:39	054957	LPU	Asc.	-0.8616	1.3180	0.2368	316	116	14.8N	175.9E	14 11	2339	B.C.E.	
03964	Aug 22 2339 B.C.E.	12:48:55	0867337.0339731	-2339	Aug 23	04:04:52	054957	LPU	Dec.	0.8190	1.3383	0.3720	273	120	17.5S	168.6E	14 05	2339	B.C.E.	
03965	Feb 15 2338 B.C.E.	13:40:36	0867514.0698636	-2338	Feb 16	04:56:08	054930	LTU	Asc.	-0.1159	2.6752	1.6163	364	229	101	18.6N	159.9E	13 11	2338	B.C.E.
03966	Aug 12 2338 B.C.E.	02:29:23	0867691.6037386	-2338	Aug 12	17:44:51	054930	LTU	Dec.	0.1197	2.6420	1.6348	339	219	098	20.8S	36.8W	15 05	2338	B.C.E.
03967	Feb 04 2337 B.C.E.	21:00:04	0867868.3750431	-2337	Feb 05	12:15:08	054903	LPU	Asc.	0.6180	1.7276	0.7205	312	174	---	21.8N	49.8E	13 11	2337	B.C.E.
03968	Jul 31 2337 B.C.E.	09:43:47	0868045.9054091	-2337	Aug 01	00:58:49	054903	LPU	Dec.	-0.6433	1.7073	0.6486	333	176	---	23.3S	145.9E	14 04	2337	B.C.E.
03969	Dec 26 2337 B.C.E.	01:03:30	0868193.5441022	-2337	Dec 26	16:18:33	054903	LNN	Asc.	-1.3437	0.3756	-0.5907	159	---	22.0N	14.7W	14 09	2337	B.C.E.	
03970	Jan 24 2336 B.C.E.	10:44:00	0868222.9472275	-2336	Jan 25	01:58:36	054876	LNN	Asc.	0.1235	0.4860	-0.4804	180	---	24.2N	157.0W	13 10	2336	B.C.E.	
03971	Jun 20 2336 B.C.E.	19:11:36	0868370.2997262	-2336	Jun 21	10:26:12	054876	LNN	Dec.	1.4836	0.1689	-0.8965	125	---	20.9S	69.8E	14 03	2336	B.C.E.	
03972	Jul 20 2336 B.C.E.	10:47:20	0868399.9495383	-2336	Jul 21	02:01:56	054876	LNN	Dec.	-1.3925	0.3433	-0.7368	178	---	25.0S	162.7W	14 04	2336	B.C.E.	
03973	Dec 15 2336 B.C.E.	16:26:39	0868548.1851791	-2336	Dec 16	07:41:14	054876	LPU	Asc.	-0.7015	1.5658	0.5758	293	153	---	21.1N	113.3E	15 09	2336	B.C.E.
03974	Jun 09 2335 B.C.E.	23:24:20	0868724.9272354	-2335	Jun 10	14:38:30	054849	LPU	Dec.	0.6807	1.6190	0.5991	316	167	---	19.5S	6.2E	13 03	2335	B.C.E.
03975	Dec 05 2335 B.C.E.	03:20:04	0868902.6389307	-2335	Dec 05	18:34:11	054849	LTU	Asc.	-0.0187	2.8469	1.8008	352	224	102	19.5N	51.1W	14 09	2335	B.C.E.
03976	May 30 2334 B.C.E.	10:54:19	0869078.9543891	-2334	May 31	02:08:03	054822	LTU	Dec.	-0.1139	2.6317	1.6660	327	211	098	17.5S	166.4W	13 02	2334	B.C.E.
03977	Nov 24 2334 B.C.E.	06:51:51	0869256.7860106	-2334	Nov 24	22:05:33	054822	LPU	Asc.	0.6938	1.6339	0.5369	337	166	---	16.9N	104.8W	14 08	2334	B.C.E.
03978	May 19 2333 B.C.E.	02:22:44	0869433.6407846	-2333	May 19	18:35:59	054795	LPU	Dec.	-0.8478	1.2717	0.3325	265	107	---	15.1S	53.3W	14 02	2333	B.C.E.
03979	Nov 12 2333 B.C.E.	05:51:01	0869610.7437662	-2333	Nov 12	21:04:17	054795	LNN	Asc.	1.3626	0.4101	-0.6934	193	---	13.7N	90.0W	13 08	2333	B.C.E.	
03980	Apr 09 2333 B.C.E.	12:19:46	0869759.0137294	-2333	Apr 10	03:32:34	054768	LPU	Dec.	0.9427	1.1190	0.1376	266	077	---	1.0N	177.1E	14 01	2333	B.C.E.
03981	Oct 02 2332 B.C.E.	17:06:09	0869935.2126002	-2332	Oct 03	08:18:59	054769	LPU	Asc.	-0.9046	1.2111	0.1856	280	097	---	4.5S	103.9E	13 07	2332	B.C.E.
03982	Mar 29 2331 B.C.E.	21:39:28	0870113.4024050	-2331	Mar 30	12:51:48	054742	LTU	Dec.	0.1967	2.5163	1.4782	356	225	095	4.6N	38.0E	15 13	2331	B.C.E.
03983	Sep 22 2331 B.C.E.	05:53:39	0870289.7455888	-2331	Sep 22	21:06:02	054742	LTU	Asc.	-0.1817	2.5128	1.5364	321	206	091	8.2S	87.8W	13 06	2331	B.C.E.
03984	Mar 18 2330 B.C.E.	23:59:29	0870467.4996357	-2330	Mar 19	15:11:23	054715	LPU	Dec.	-0.5713	1.8473	0.7730	350	193	---	8.1N	3.7E	14 12	2330	B.C.E.
03985	Sep 11 2330 B.C.E.	21:49:34	0870644.4094202	-2330	Sep 12	13:01:29	054715	LPU	Asc.	0.4977	1.9281	0.9614	303	180	---	11.5S	33.3E	14 06	2330	B.C.E.
03986	Feb 06 2329 B.C.E.	10:11:09	0870791.9244099	-2329	Feb 07	10:22:37	054688	LNN	Dec.	1.5363	0.0629	-0.9840	404	---	22.3N	147.5W	13 11	2329	B.C.E.	
03987	Mar 07 2329 B.C.E.	00:38:29	0870821.5267224	-2329	Mar 07	15:49:56	054688	LNN	Dec.	-1.2975	0.5086	-0.5534	209	---	11.5N	5.5W	13 12	2329	B.C.E.	
03988	Aug 02 2329 B.C.E.	03:32:12	0870969.5233637	-2329	Aug 02	15:43:40	054688	LNN	Asc.	-1.5028	0.1107	-0.9095	096	---	23.9S	7.6W	15 04	2329	B.C.E.	
03989	Aug 31 2329 B.C.E.	12:14:09	0870999.0098239	-2329	Sep 01	03:25:37	054688	LNN	Asc.	1.2243	0.6118	-0.3885	207	---	14.5S	177.0E	14 05	2329	B.C.E.	
03990	Jan 25 2328 B.C.E.	19:28:06	0871146.3111805	-2328	Jan 26	10:39:07	054661	LPU	Dec.	0.7520	1.4754	0.4809	292	145	---	23.5N	72.3E	13 10	2328	B.C.E.
03991	Jul 22 2328 B.C.E.	05:49:19	0871323.7425863	-2328	Jul 22	21:00:20	054661	LPU	Asc.	-0.8204	1.3868	0.3193	316	132	---	24.4S	87.9W	14 04	2328	B.C.E.
03992	Jan 15 2327 B.C.E.	10:16:34	0871500.9281733	-2327	Jan 16	01:27:09	054634	LTU	Dec.	0.0337	2.7778	1.8141	319	207	098	23.8N	151.0W	13 10	2327	B.C.E.
03993	Jul 11 2327 B.C.E.	06:11:30	0871677.7579849	-2327	Jul 11	21:22:05	054634	LTU	Asc.	-0.0855	2.7393	1.6639	374	235	104	24.0S	94.4W	14 04	2327	B.C.E.
03994	Jan 05 2326 B.C.E.	02:14:45	0871855.5935722	-2326	Jan 05	12:24:51	054607	LPU	Dec.	-0.6541	1.6461	0.6693	294	160	---	23.3N	31.8W	14 10	2326	B.C.E.
03995	Jun 30 2326 B.C.E.	08:53:20	0872031.8703733	-2326	Jul 01	00:03:28	054607	LPU	Asc.	0.6641	1.6575	0.6217	324	171	---	22.7S	135.6W	13 03	2326	B.C.E.
03996	Nov 25 2326 B.C.E.	23:47:01	0872189.4909816	-2326	Nov 26	14:57:08	054607	LNN	Dec.	1.4762	0.1816	-0.8821	125	---	18.3N	1.4E	14 08	2326	B.C.E.	
03997	Dec 25 2326 B.C.E.	14:43:03	0872210.1132256	-2326	Dec 26	05:53:09	054607	LNN	Dec.	-1.3963	0.3099	-0.7178	156	---	21.8N	140.0E	14 09	2326	B.C.E.	
03998	May 20 2325 B.C.E.	10:50:44	0872356.9519037	-2325	May 21	02:00:24	054580	LNN	Asc.	-1.1817	0.6663	-0.2872	208	---	15.9S	165.3W	13 02	2325	B.C.E.	
03999	Jun 18 2325 B.C.E.	18:45:05	0872386.2813109	-2325	Jun 19	09:54:46	054580	LNN	Asc.	1.3709	0.3317	-0.6467	156	---	20.6S	76.1E	13 03	2325	B.C.E.	
04000	Nov 14 2325 B.C.E.	01:24:19	0872534.5885506	-2325	Nov 14	16:33:59	054580	LPU	Dec.	0.8439	1.3625	0.2574	320	121	---	14.6N	23.0W	14 08	2325	B.C.E.
04001	May 10 2324 B.C.E.	03:56:25	0872711.6641727	-2324	May 10	19:05:38	054554	LTU	Asc.	-0.4347	2.0300	1.0904	304	184	044	11.7S	60.8W	14 02	2324	B.C.E.
04002	Nov 03 2324 B.C.E.	00:27:11	0872888.5188746	-2324	Nov 03	15:36:26	054554	LTU	Dec.	0.1692	2.5956	1.5003	372	229	096	9.2N	8.4W	14 08	2324	B.C.E.
04003	Apr 29 2323 B.C.E.	20:10:56	0873066.3409263	-2323	Apr 30	11:19:41	054527	LTU	Asc.	0.3164	2.2616	1.2929	323	203	076	7.2S	56.7E	15 01	2323	B.C.E.
04004	Oct 23 2323 B.C.E.	04:28:16	0873242.6862947	-2323	Oct 23	19:37:06	054528	LPU	Dec.	-0.5202	1.9252	0.8824	330	191	---	4.2N	68.0W	13 07	2323	B.C.E.
04005	Apr 19 2322 B.C.E.	07:09:05	0873420.7979713	-2322	Apr 19	22:17:26	054501	LNN	Asc.	1.1300	0.7963	-0.2267	244	---	2.4S	106.4W	14 01	2322	B.C.E.	
04006	Sep 13 2322 B.C.E.	05:09:23	0873567.7148514	-2322	Sep 13	20:17:44	054501	LNN	Dec.	1.5041	0.0814	-0.8854	076	---	10.0S	76.9W	13 06	2322	B.C.E.	
04007	Oct 12 2322 B.C.E.	15:45:50	0873597.1568241	-2322	Oct 13	06:54:11	054501	LNN	Dec.	-1.1647	0.7151	-0.2731	217	---	0.9S	123.3E	14 07	2322	B.C.E.	
04008	Mar 08 2321 B.C.E.	19:28:37	0873745.3115375	-2321	Mar 09	10:36:30	054474	LPU	Dec.	-0.9251	1.1998	0.1220	305	085	---	11.1N	72.1E	14 12	2321	B.C.E.
04009	Sep 01 2321 B.C.E.	21:13:45	0873922.3845485	-2321	Sep 02	12:21:39	054474	LPU	Dec.	0.8466	1.2899	0.3191	270	113	---	14.3S	42.4E	14 05	2321	B.C.E.
04010	Feb 25 2320 B.C.E.	20:57:38	087																	

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar				
	Month	Day	Time (UT)	Day	Time (UT)								Pen.	Par.	Lat.	Lon.	Day	Month	Year		
04067	Jun	09	22:27	B. C. E.	18:28:50	0882604.2700258	-2297	Jun 10 09:26:04	053833	LPU	Dec.	-0.7017	1.5407	0.5999	282	145	20.9S	79.7E	14 03 2297	B. C. E.	
04068	Dec	03	22:10:45	B. C. E.	22:10:45	0882781.4241342	-2297	Dec 04 13:07:58	053833	LNN	Asc.	1.3515	0.4281	-0.6709	197	---	20.5N	25.7E	13 09 2297	B. C. E.	
04069	May	01	22:29	B. C. E.	02:47:41	0882929.6164488	-2296	May 01 17:44:27	053806	LNN	Dec.	1.1008	0.8312	-0.1547	238	---	7.2S	42.2W	15 01 2296	B. C. E.	
04070	May	30	22:29	B. C. E.	11:04:15	0882958.9612855	-2296	May 31 02:01:02	053806	LNN	Dec.	-1.4572	0.1651	-0.7970	110	---	19.0S	169.4W	14 02 2296	B. C. E.	
04071	Oct	24	22:29	B. C. E.	10:24:51	0883105.9339255	-2296	Oct 25 01:21:38	053806	LPU	Asc.	-0.4561	1.2069	0.1844	278	096	4.5N	157.0W	13 07 2296	B. C. E.	
04072	Apr	20	22:29	B. C. E.	11:16:55	0883283.9700839	-2295	Apr 21 02:13:13	053780	LTU	Dec.	0.3582	2.2215	1.1803	352	216	065	3.7S	168.7W	14 01 2295	B. C. E.
04073	Oct	13	22:29	B. C. E.	23:33:27	0883460.4815650	-2295	Oct 14 12:29:48	053780	LPU	Asc.	-0.1966	2.4858	1.5085	320	205	090	0.8N	6.1E	13 07 2295	B. C. E.
04074	Apr	09	22:29	B. C. E.	13:10:11	0883638.0487365	-2294	Apr 10 04:06:05	053754	LTU	Dec.	-0.4122	2.1374	1.0668	362	215	042	0.1S	163.9E	14 01 2294	B. C. E.
04075	Oct	03	22:29	B. C. E.	15:19:08	0883815.1382856	-2294	Oct 04 06:15:01	053754	LPU	Asc.	0.4734	1.9761	1.0025	306	184	007	3.0S	129.9E	13 07 2294	B. C. E.
04076	Mar	28	22:29	B. C. E.	14:24:04	0883992.1000508	-2293	Mar 29 05:19:32	053727	LNN	Dec.	-1.1526	0.7691	-0.2823	248	---	3.7N	146.3E	13 13 2293	B. C. E.	
04077	Sep	22	22:29	B. C. E.	04:59:50	0884169.7082123	-2293	Sep 22 19:55:16	053727	LNN	Asc.	1.1939	0.6734	-0.3387	218	---	6.7S	75.1W	14 06 2293	B. C. E.	
04078	Feb	16	22:29	B. C. E.	11:35:22	0884316.9828963	-2292	Feb 17 02:30:23	053700	LPU	Dec.	0.8220	1.3407	0.3585	280	124	---	19.0N	168.4W	13 11 2292	B. C. E.
04079	Aug	12	22:29	B. C. E.	20:12:39	0884494.3421169	-2292	Aug 13 11:07:38	053700	LPU	Asc.	-0.9280	1.1949	0.1164	302	082	---	21.3S	57.8E	15 05 2292	B. C. E.
04080	Feb	06	22:29	B. C. E.	03:05:16	0884671.6286602	-2291	Feb 06 17:59:51	053674	LTU	Dec.	0.0938	2.6639	1.7075	318	205	097	20.9N	41.5W	14 01 2291	B. C. E.
04081	Aug	01	22:29	B. C. E.	20:08:03	0884848.3389259	-2291	Aug 02 11:02:38	053674	LPU	Asc.	-0.2087	2.5154	1.4355	371	230	093	22.7S	58.1E	14 04 2291	B. C. E.
04082	Jan	26	22:29	B. C. E.	19:13:03	0885026.3007323	-2290	Jan 27 10:07:09	053647	LPU	Dec.	-0.6114	1.7235	0.7487	299	168	---	22.0N	75.7E	15 10 2290	B. C. E.
04083	Jul	21	22:29	B. C. E.	23:17:38	0885202.4705797	-2290	Jul 22 14:11:46	053647	LPU	Asc.	0.5336	1.8965	0.8617	334	192	---	23.2S	9.8E	13 04 2290	B. C. E.
04084	Dec	17	22:29	B. C. E.	16:31:51	0885351.1887844	-2290	Dec 18 07:25:57	053647	LNN	Dec.	1.4918	0.1543	-0.9121	117	---	23.5N	111.8E	15 09 2290	B. C. E.	
04085	Jan	16	22:29	B. C. E.	07:19:44	0885380.8053744	-2289	Jan 16 22:13:24	053620	LNN	Dec.	-1.3719	0.5542	-0.6734	167	---	22.4N	107.1W	14 10 2289	B. C. E.	
04086	Jun	11	22:29	B. C. E.	01:47:50	0885527.4574809	-2289	Jun 11 16:41:29	053620	LNN	Asc.	-1.3169	0.4170	-0.5341	168	---	21.8S	30.0W	13 03 2289	B. C. E.	
04087	Jul	10	22:29	B. C. E.	09:49:56	0885556.9096767	-2289	Jul 11 00:43:36	053620	LNN	Asc.	1.2381	0.5746	-0.4023	199	---	21.7S	149.1W	13 04 2289	B. C. E.	
04088	Dec	05	22:29	B. C. E.	17:40:12	0885705.2362520	-2289	Dec 06 08:33:52	053620	LPU	Dec.	0.8516	1.3481	0.2436	320	118	---	20.6N	93.8E	14 09 2289	B. C. E.
04089	May	31	22:29	B. C. E.	18:57:54	0885858.2902126	-2288	Jun 01 09:51:08	053594	LPU	Asc.	-0.5831	1.7589	0.8169	294	167	---	18.6S	72.6E	14 02 2289	B. C. E.
04090	Nov	24	22:28	B. C. E.	16:59:48	0886059.2081915	-2288	Nov 25 07:53:04	053594	LTU	Dec.	0.1693	2.5932	1.5025	370	229	096	16.9N	103.5E	14 08 2288	B. C. E.
04091	May	21	22:28	B. C. E.	10:43:34	0886236.9469255	-2287	May 22 01:36:19	053567	LPU	Asc.	0.1647	2.5432	1.5684	330	213	095	14.8S	163.2W	14 02 2288	B. C. E.
04092	Nov	13	22:28	B. C. E.	21:46:02	0886413.4069715	-2287	Nov 14 12:38:51	053567	LPU	Dec.	-0.5208	1.9212	0.8839	328	190	---	12.6N	31.9E	13 08 2287	B. C. E.
04093	May	10	22:28	B. C. E.	20:47:39	0886591.3664201	-2286	May 11 11:39:59	053541	LPU	Asc.	0.9766	1.0807	0.0518	279	054	---	10.6S	46.7E	15 02 2286	B. C. E.
04094	Oct	04	22:28	B. C. E.	22:42:58	0886738.4465084	-2286	Oct 05 13:35:19	053541	LNN	Dec.	1.5213	0.0514	-0.9184	061	---	1.4S	18.6E	13 07 2286	B. C. E.	
04095	Nov	03	22:28	B. C. E.	09:37:16	0886767.9008803	-2286	Nov 04 00:29:37	053541	LNN	Dec.	-1.1607	0.7213	-0.2649	216	---	8.0N	145.6W	13 08 2286	B. C. E.	
04096	Mar	30	22:28	B. C. E.	08:50:47	0886915.8685954	-2285	Mar 30 23:42:42	053515	LNN	Asc.	-1.0702	0.9303	-0.1409	275	---	3.0N	130.4W	14 13 2285	B. C. E.	
04097	Sep	23	22:28	B. C. E.	14:25:20	0887093.1009214	-2285	Sep 24 05:17:14	053515	LPU	Dec.	0.8826	1.2283	0.2485	267	101	---	6.3S	143.8E	14 06 2285	B. C. E.
04098	Mar	19	22:28	B. C. E.	11:11:52	0887269.9665703	-2284	Mar 20 02:03:22	053488	LTU	Asc.	-0.2931	2.3405	1.3002	353	219	080	7.8N	164.3W	13 12 2284	B. C. E.
04099	Sep	13	22:28	B. C. E.	02:45:40	0887447.6150450	-2284	Sep 13 17:37:06	053488	LPU	Dec.	0.2602	2.4934	1.4667	343	217	091	11.0S	40.7W	14 06 2284	B. C. E.
04100	Mar	08	22:28	B. C. E.	20:17:55	0887624.3457703	-2283	Mar 09 11:08:58	053462	LPU	Asc.	0.4705	1.9886	1.0007	319	192	004	12.5N	60.2E	13 12 2283	B. C. E.
04101	Sep	02	22:28	B. C. E.	08:14:31	0887801.8431818	-2283	Sep 02 23:05:32	053462	LPU	Dec.	-0.5263	1.9311	0.8541	349	197	---	15.5S	122.5W	14 05 2283	B. C. E.
04102	Jan	28	22:28	B. C. E.	02:51:58	0887949.6194162	-2282	Jan 28 17:42:33	053435	LNN	Asc.	-1.4051	0.2588	-0.6996	133	---	21.0N	38.8W	14 10 2282	B. C. E.	
04103	Feb	26	22:28	B. C. E.	11:16:43	0887978.9699470	-2282	Feb 27 02:07:19	053435	LNN	Asc.	1.1647	0.6975	-0.2558	210	---	17.6N	163.9W	13 11 2282	B. C. E.	
04104	Aug	22	22:28	B. C. E.	08:15:03	0888155.8437861	-2282	Aug 23 02:05:37	053435	LNN	Dec.	-1.2412	0.6260	-0.4640	234	---	19.5S	122.6W	13 05 2282	B. C. E.	
04105	Jan	17	22:28	B. C. E.	18:14:05	0888306.2597791	-2281	Jan 18 09:04:12	053408	LPU	Asc.	-0.7517	1.4736	0.4838	289	143	---	22.9N	89.8E	15 10 2281	B. C. E.
04106	Jul	11	22:28	B. C. E.	20:55:04	0888480.3175686	-2281	Jul 12 11:45:12	053408	LPU	Dec.	0.8808	1.2499	0.2340	287	109	---	23.1S	44.9E	13 04 2281	B. C. E.
04107	Jan	06	22:28	B. C. E.	04:23:41	0888658.6831185	-2280	Jan 06 19:13:21	053382	LPU	Asc.	-0.0511	2.7888	1.7402	355	226	102	23.9N	63.8W	14 10 2280	B. C. E.
04108	Jul	01	22:28	B. C. E.	09:23:13	0888834.8911241	-2280	Jul 02 00:12:57	053382	LTU	Dec.	0.0975	2.6603	1.6975	324	210	098	23.4S	142.9W	13 03 2280	B. C. E.
04109	Dec	26	22:28	B. C. E.	07:07:20	0889012.7967548	-2280	Dec 26 21:57:01	053382	LPU	Asc.	0.6703	1.6765	0.5805	341	172	---	23.9N	106.1W	14 09 2280	B. C. E.
04110	Jun	21	22:29	B. C. E.	02:05:49	0889189.5873784	-2279	Jun 21 16:55:05	053355	LPU	Dec.	-0.6319	1.6697	0.7270	289	159	---	22.9S	34.3W	14 03 2279	B. C. E.
04111	Dec	15	22:29	B. C. E.	06:17:09	0889366.7619060	-2279	Dec 15 21:06:23	053355	LNN	Asc.	1.3426	0.4428	-0.6529	199	---	22.9N	94.9W	13 09 2279	B. C. E.	
04112	May	12	22:28	B. C. E.	09:55:36	0889514.9136164	-2278	May 13 00:44:26	053329	LNN	Dec.	1.1828	0.6824	-0.3068	220	---	11.0S	150.2W	14 02 2278	B. C. E.	
04113	Jun	10	22:28	B. C. E.	18:27:00	0889544.2687497	-2278	Jun 11 09:15:48	053329	LNN	Dec.	-1.3898	0.2909	-0.6752	145	---	21.6S	79.9E	15 03 2278	B. C. E.	
04114	Nov	04	22:28	B. C. E.	19:10:52	0889691.2921112	-2278	Nov 05 09:59:41	053329	LPU	Asc.	-0.9027	1.2119	0.1918	278	097	---	8.9N	71.1E	13 08 2278	B. C. E.

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar							
	Month	Day	Hour	Minute								Month	Day	Hour	Minute	Pen.	Par.	Lat.	Lon.	Day	Month	Year	
04174	Dec	27	22:53	09:37:21	0898875.9009393	-2253	Dec 28	00:15:10	052669	LPU	Dec.	0.8741	1.3052	0.2042	316	109	---	24.3N	143.3W	14	09	2253	B.C.E.
04175	Jun	22	22:52	10:07:58	0899052.9221970	-2252	Jun 23	00:45:21	052643	LPU	Asc.	-0.7236	1.5035	0.5565	282	142	---	23.2S	154.6W	14	03	2252	B.C.E.
04176	Dec	16	22:52	15:05:37	0899229.8920768	-2252	Dec 17	00:02:00	052643	LPU	Dec.	0.1784	2.5725	1.4896	367	228	095	22.2N	141.3W	13	09	2252	B.C.E.
04177	Jun	12	22:51	15:05:37	0899407.5520055	-2251	Jun 12	15:51:46	052616	LPU	Asc.	0.0149	2.8225	1.8388	335	218	102	20.6S	21.6W	15	03	2251	B.C.E.
04178	Dec	05	22:51	15:05:37	0899584.1288980	-2251	Dec 06	05:42:34	052616	LPU	Dec.	-0.5195	1.9196	0.8904	325	189	---	19.3N	132.6E	13	09	2251	B.C.E.
04179	Jun	01	22:50	16:16:55	0899761.9284096	-2250	Jun 02	00:53:24	052590	LPU	Asc.	0.8182	1.3753	0.3386	307	133	---	17.4S	156.9W	14	02	2250	B.C.E.
04180	Oct	26	22:50	16:37:31	0900040.5453985	-2250	Oct 27	07:14:01	052591	LNN	Dec.	1.5232	0.0489	-0.9227	059	---	---	7.6N	108.8E	14	07	2250	B.C.E.
04181	Nov	25	22:50	16:37:31	0899938.6488062	-2250	Nov 25	18:10:48	052591	LNN	Dec.	-1.1604	0.7198	-0.2624	215	---	---	15.6N	54.9W	13	08	2250	B.C.E.
04182	Apr	20	22:49	15:52:07	0900086.4111923	-2249	Apr 21	12:28:12	052565	LNN	Asc.	-1.2309	0.6327	-0.4332	233	---	---	5.6S	31.9E	14	01	2249	B.C.E.
04183	Oct	15	22:49	15:52:07	0900263.8337641	-2249	Oct 15	22:36:42	052565	LPU	Dec.	0.8974	1.2052	0.2175	267	097	---	2.7N	121.3W	14	07	2249	B.C.E.
04184	Apr	10	22:48	11:05:22	0900440.5453985	-2248	Apr 10	15:41:02	052538	LPU	Asc.	-0.4375	2.0700	1.0407	342	205	032	0.6S	15.0W	13	01	2248	B.C.E.
04185	Oct	04	22:48	11:05:22	0900618.3129341	-2248	Oct 05	10:06:13	052538	LPU	Dec.	0.2304	2.4546	1.4163	345	217	088	2.4S	67.0E	15	07	2248	B.C.E.
04186	Mar	30	22:47	11:19:20	0900794.9717633	-2247	Mar 31	01:54:34	052512	LPU	Asc.	0.3426	2.2176	1.2409	323	202	070	4.3N	167.1W	13	13	2247	B.C.E.
04187	Sep	23	22:47	11:19:20	0900972.4964337	-2247	Sep 24	14:30:03	052512	LPU	Dec.	-0.4844	2.0134	0.9258	355	203	---	7.5S	1.8E	14	06	2247	B.C.E.
04188	Feb	18	22:46	11:19:20	0901120.3074322	-2246	Feb 19	09:57:28	052486	LNN	Asc.	-1.4795	0.1198	-0.8336	092	---	---	16.2N	74.1E	14	11	2246	B.C.E.
04189	Mar	20	22:46	11:19:20	0901496.6262119	-2246	Mar 21	17:36:31	052486	LNN	Asc.	1.0546	0.8959	-0.0504	232	---	---	9.0N	41.4W	14	12	2246	B.C.E.
04190	Sep	12	22:46	11:19:20	0901326.4749334	-2246	Sep 13	13:58:41	052486	LNN	Dec.	-1.1789	0.7431	-0.3525	252	---	---	12.4S	10.1E	14	06	2246	B.C.E.
04191	Feb	08	22:45	10:41:26	0901474.9454452	-2245	Feb 09	01:15:45	052459	LPU	Asc.	-0.8180	1.3515	0.3625	283	127	---	19.5N	155.6W	14	11	2245	B.C.E.
04192	Aug	02	22:45	12:00:48	0901651.0055539	-2245	Aug 03	02:35:07	052459	LPU	Asc.	0.9810	1.0657	0.0506	268	052	---	21.4S	179.9E	13	04	2245	B.C.E.
04193	Jan	27	22:44	10:07:58	0901829.3483472	-2244	Jan 28	10:55:28	052433	LPU	Asc.	-0.1042	2.6913	1.6428	357	226	101	22.3N	58.9E	15	10	2244	B.C.E.
04194	Jul	23	22:44	10:07:58	0901200.5397216	-2244	Jul 23	15:31:06	052433	LPU	Dec.	0.2119	2.4509	1.4874	321	205	089	23.3S	14.9W	13	04	2244	B.C.E.
04195	Jan	16	22:43	10:07:58	0902183.4444179	-2243	Jan 17	13:13:23	052406	LPU	Asc.	0.6261	1.7557	0.6635	346	182	---	24.2N	23.3E	14	10	2243	B.C.E.
04196	Jul	12	22:43	10:07:58	0902360.2344508	-2243	Jul 13	08:11:02	052406	LPU	Dec.	-0.5082	1.8993	0.9513	300	177	---	24.5S	94.2E	14	04	2243	B.C.E.
04197	Jun	05	22:42	11:18:18	0902537.4245175	-2242	Jun 06	12:44:19	052380	LNN	Asc.	1.3087	0.5005	-0.5862	209	---	---	25.1N	29.1E	13	10	2242	B.C.E.
04198	Jun	03	22:42	11:18:18	0902685.5059390	-2242	Jun 03	14:41:33	052380	LNN	Dec.	1.3454	0.3882	-0.6094	172	---	---	17.3S	4.5W	15	02	2242	B.C.E.
04199	Jul	02	22:42	11:18:18	0902714.8904935	-2242	Jul 02	23:55:18	052380	LNN	Dec.	-1.2645	0.5257	-0.4503	192	---	---	24.8S	142.9W	14	03	2242	B.C.E.
04200	Nov	26	22:42	11:18:18	0902862.5031526	-2242	Nov 27	03:18:22	052380	LPU	Asc.	-0.8958	1.2213	0.2076	276	100	---	16.4N	147.5E	12	08	2242	B.C.E.
04201	May	22	22:41	10:53:03	0903039.7992270	-2241	May 22	21:43:26	052354	LPU	Dec.	0.6191	1.7467	0.6978	336	183	---	15.0S	109.9W	14	02	2241	B.C.E.
04202	Nov	15	22:41	10:53:03	0903216.6016889	-2241	Nov 15	17:05:29	052355	LPU	Asc.	-0.1967	2.4848	1.5091	319	204	089	13.6N	39.9W	13	08	2241	B.C.E.
04203	May	11	22:40	10:53:03	0903393.8508759	-2240	May 11	22:57:24	052328	LPU	Dec.	-0.1467	2.6230	1.5554	373	234	101	12.0S	128.1E	14	02	2240	B.C.E.
04204	Nov	04	22:40	10:53:03	0903571.2555636	-2240	Nov 05	08:40:08	052328	LPU	Asc.	0.4679	1.9901	1.0088	308	186	014	10.4N	86.1E	14	08	2240	B.C.E.
04205	Apr	30	22:39	10:53:03	0903747.9412871	-2239	Apr 30	01:07:10	052302	LPU	Dec.	-0.9040	2.1885	1.1804	295	100	---	8.7S	160.0W	13	01	2239	B.C.E.
04206	Oct	25	22:39	10:53:03	0903925.7840653	-2239	Oct 25	21:20:45	052302	LNN	Asc.	-0.1964	0.6947	-0.3322	224	---	---	6.7N	104.1W	14	07	2239	B.C.E.
04207	Mar	21	22:38	10:52:19	0904272.9529992	-2238	Mar 21	02:23:36	052276	LPU	Dec.	0.9772	1.0476	0.0820	253	048	---	8.3N	159.0W	13	12	2238	B.C.E.
04208	Sep	14	22:38	10:52:19	0904250.2869038	-2238	Sep 15	09:24:24	052276	LNT	Asc.	-1.0318	1.0119	-0.0815	285	---	---	11.5S	77.9E	14	06	2238	B.C.E.
04209	Mar	10	22:37	10:52:19	0904227.6369891	-2237	Mar 10	17:48:06	052250	LPU	Dec.	0.2367	2.3971	1.4500	314	200	086	11.5N	44.8W	14	12	2237	B.C.E.
04210	Sep	02	22:37	10:52:19	0904604.2636690	-2237	Sep 03	08:50:32	052250	LPU	Asc.	-0.3340	2.2885	1.2025	365	220	069	14.9S	86.2E	14	06	2237	B.C.E.
04211	Feb	27	22:36	10:52:19	0904782.3132333	-2236	Feb 28	10:01:25	052223	LPU	Dec.	-0.4938	1.9383	0.9655	310	185	---	14.4N	72.0E	15	12	2236	B.C.E.
04212	Aug	22	22:36	10:52:19	0904958.4249623	-2236	Aug 23	12:42:22	052223	LPU	Asc.	0.3932	2.1540	1.1193	340	207	053	17.6S	27.8E	13	05	2236	B.C.E.
04213	Jan	18	22:35	10:52:19	0905107.1957397	-2235	Jan 19	07:11:50	052197	LNN	Dec.	1.5557	0.0369	-1.0294	058	---	---	24.9N	103.5E	15	10	2235	B.C.E.
04214	Feb	17	22:35	10:52:19	0905136.7905158	-2235	Feb 17	21:28:18	052197	LNN	Dec.	-1.2804	0.5232	-0.5056	202	---	---	16.9N	110.3E	15	11	2235	B.C.E.
04215	Jul	14	22:35	10:52:19	0905283.5355095	-2235	Jul 14	15:21:05	052197	LNN	Asc.	-1.4930	0.0946	-0.8578	082	---	---	25.5S	13.9W	14	04	2235	B.C.E.
04216	Aug	12	22:35	10:52:19	0905312.8964322	-2235	Aug 13	00:00:49	052197	LNN	Asc.	1.0841	0.8576	-0.1201	234	---	---	19.6S	142.4W	13	05	2235	B.C.E.
04217	Jan	07	22:34	10:52:19	0905461.2250234	-2234	Jan 08	07:53:33	052171	LPU	Dec.	0.8951	1.2652	0.1670	312	099	---	24.8N	101.3E	14	10	2234	B.C.E.
04218	Jul	03	22:34	10:52:19	0905638.2432679	-2234	Jul 04	08:18:31	052171	LPU	Asc.	-0.7884	1.3864	0.4359	275	127	---	24.4S	90.8E	15	03	2234	B.C.E.
04219	Dec	27	22:34	10:52:19	0905815.2288835	-2234	Dec 28	07:59:08	052171	LPU	Dec.	0.1902	2.5485	1.4705	365	227	094	23.6N	98.6E	14	09	2234	B.C.E.
04220	Jan	22	22:33	10:52:19	0905992.8566986	-2233	Jan 22	23:02:41	052144	LPU	Asc.	-0.0560	2.7497	1.7608	337	218	101	22.6S	131.0W</				

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (minutes)		Greatest in Zenith Lat.	Hebrew Date on the Creation Calendar				
										Pen.	Par.						
04281	Aug 13 2208 B.C.E.	17:05:36	0915176.2122221	-2208	Aug 14 07:23:50	051493	LTU	Dec.	0.2989	2.2923	1.3266	316	199	077	19.9S	104.3E	14 05 2208 B.C.E.
04282	Feb 07 2207 B.C.E.	13:32:43	0915534.0643823	-2207	Feb 08 03:50:29	051467	LPU	Asc.	0.5514	1.8901	0.8033	353	196	---	20.8N	161.8E	14 11 2207 B.C.E.
04283	Aug 03 2207 B.C.E.	09:35:08	0915530.8993993	-2207	Aug 03 23:52:55	051467	LPU	Dec.	-0.4073	2.0881	1.1328	308	189	052	22.6S	143.6W	14 04 2207 B.C.E.
04284	Jan 27 2206 B.C.E.	13:34:40	0915708.0657351	-2206	Jan 28 03:52:00	051441	LNN	Asc.	1.2482	0.6061	-0.4698	227	---	---	23.6N	160.6E	13 10 2206 B.C.E.
04285	Jun 24 2206 B.C.E.	14:25:35	0915856.1011048	-2206	Jun 25 04:42:56	051441	LNN	Dec.	1.4990	0.1117	-0.8964	096	---	---	21.4S	141.5E	14 03 2206 B.C.E.
04286	Jul 24 2206 B.C.E.	00:37:07	0915885.5257759	-2206	Jul 24 14:54:28	051441	LNN	Dec.	-1.1582	0.7266	-0.2610	223	---	---	24.6S	9.8W	15 04 2206 B.C.E.
04287	Dec 18 2206 B.C.E.	06:12:39	0916032.7587841	-2206	Dec 18 20:30:00	051441	LPU	Asc.	-0.8974	1.2140	0.2091	274	100	---	21.4N	93.0W	13 09 2206 B.C.E.
04288	Jun 12 2205 B.C.E.	20:22:20	0916210.3488397	-2205	Jun 13 10:39:14	051415	LPU	Dec.	0.7911	1.4350	0.3786	318	142	---	20.3S	51.8E	15 03 2205 B.C.E.
04289	Dec 06 2205 B.C.E.	20:32:27	0916387.3558726	-2205	Dec 07 10:49:23	051415	LPU	Asc.	-0.1975	2.4817	1.5095	318	204	089	20.0N	51.0E	14 09 2205 B.C.E.
04290	Jun 01 2204 B.C.E.	21:12:24	0916564.3836061	-2204	Jun 02 11:28:53	051388	LTU	Dec.	0.0329	2.8318	1.7643	374	236	106	18.4S	39.1E	14 02 2204 B.C.E.
04291	Nov 26 2204 B.C.E.	12:05:39	0916742.0039251	-2204	Nov 27 02:22:07	051389	LTU	Asc.	0.4710	1.9858	1.0018	310	186	006	17.9N	176.8E	14 08 2204 B.C.E.
04292	May 22 2203 B.C.E.	00:01:04	0916918.5007413	-2203	May 22 14:17:08	051363	LPU	Dec.	-0.7310	1.5327	0.5011	316	157	---	16.0S	3.0W	13 02 2203 B.C.E.
04293	Nov 16 2203 B.C.E.	00:13:26	0917096.5093283	-2203	Nov 16 14:29:29	051363	LNN	Asc.	1.1952	0.6821	-0.3517	224	---	---	15.1N	5.7W	14 08 2203 B.C.E.
04294	Apr 12 2202 B.C.E.	01:56:38	0917243.5810002	-2202	Apr 12 16:12:16	051337	LNN	Dec.	1.1060	0.8069	-0.1498	226	---	---	0.0S	27.3W	13 01 2202 B.C.E.
04295	May 11 2202 B.C.E.	09:49:36	0917272.9094406	-2202	May 12 00:05:12	051337	LNN	Dec.	-1.4436	0.1973	-0.7792	122	---	---	13.1S	149.8W	13 02 2202 B.C.E.
04296	Oct 06 2202 B.C.E.	10:39:10	0917420.9438648	-2202	Oct 07 00:54:47	051337	LNN	Asc.	-1.0673	0.9507	-0.1504	280	---	---	2.9S	159.7W	14 07 2202 B.C.E.
04297	Mar 31 2201 B.C.E.	18:50:01	0917598.2847357	-2201	Apr 01 09:05:12	051311	LTU	Dec.	0.3618	2.1656	1.2224	309	191	066	3.4N	80.1E	14 13 2201 B.C.E.
04298	Sep 24 2201 B.C.E.	09:57:13	0917774.9147910	-2201	Sep 25 00:12:30	051311	LTU	Asc.	-0.3795	2.2064	1.1178	362	215	054	6.9S	148.9W	13 06 2201 B.C.E.
04299	Mar 21 2200 B.C.E.	10:57:13	0917952.9564050	-2200	Mar 22 01:11:57	051285	LTU	Dec.	-0.3803	2.1465	1.1735	319	198	060	6.8N	161.0W	14 12 2200 B.C.E.
04300	Sep 13 2200 B.C.E.	14:20:42	0918129.0977109	-2200	Sep 14 04:35:29	051285	LTU	Asc.	0.3380	2.2553	1.2208	341	210	069	10.5S	145.4E	12 06 2200 B.C.E.
04301	Mar 10 2199 B.C.E.	21:50:51	0918207.4103132	-2199	Mar 11 12:05:10	051259	LNN	Dec.	-1.1807	0.7065	-0.3229	232	---	---	10.1N	36.1E	15 12 2199 B.C.E.
04302	Sep 03 2199 B.C.E.	02:04:39	0918483.5865628	-2199	Sep 03 16:18:59	051259	LNN	Asc.	1.0164	0.9827	0.0034	247	103	---	13.7S	30.6W	13 06 2199 B.C.E.
04303	Jan 29 2198 B.C.E.	08:30:46	0918761.8547010	-2198	Jan 29 22:44:39	051233	LPU	Dec.	0.9574	1.1473	0.0561	301	058	---	23.0N	123.1W	14 11 2198 B.C.E.
04304	Jul 25 2198 B.C.E.	09:29:29	0918808.8954794	-2198	Jul 25 23:43:22	051233	LPU	Asc.	-0.9014	1.1833	0.2243	261	091	---	24.3S	142.6W	14 04 2198 B.C.E.
04305	Jan 18 2197 B.C.E.	09:21:06	0918985.8896530	-2197	Jan 18 23:34:35	051207	LTU	Dec.	0.2314	2.4671	1.4006	361	224	089	23.7N	136.9W	13 10 2197 B.C.E.
04306	Jul 13 2197 B.C.E.	23:22:24	0919163.4738849	-2197	Jul 14 13:35:48	051207	LTU	Asc.	-0.1855	2.5181	1.5173	338	218	094	24.1S	8.2E	15 04 2197 B.C.E.
04307	Jan 06 2196 B.C.E.	16:38:07	0919340.1931338	-2196	Jan 07 06:51:09	051181	LTU	Dec.	-0.4889	2.9676	0.9545	323	192	---	23.5N	112.6E	13 10 2196 B.C.E.
04308	Jul 03 2196 B.C.E.	06:41:48	0919517.7790244	-2196	Jul 03 20:54:47	051181	LTU	Asc.	0.5939	1.7944	0.7428	338	186	---	23.1S	102.4W	14 03 2196 B.C.E.
04309	Nov 27 2196 B.C.E.	19:43:46	0919665.3220585	-2196	Nov 28 09:56:47	051181	LNN	Dec.	1.5175	0.0589	-0.9120	065	---	---	19.4N	62.3E	14 08 2196 B.C.E.
04310	Dec 27 2196 B.C.E.	06:12:06	0919694.7584037	-2196	Dec 27 20:25:07	051181	LNN	Dec.	-1.1442	0.7449	-0.2279	217	---	---	22.3N	92.1W	13 09 2196 B.C.E.
04311	May 23 2195 B.C.E.	17:09:17	0919842.2147841	-2195	May 24 07:21:52	051155	LNN	Asc.	-1.4822	0.1689	-0.8917	125	---	---	17.2S	99.9E	14 02 2195 B.C.E.
04312	Jun 22 2195 B.C.E.	07:58:52	0919871.8325471	-2195	Jun 22 22:11:26	051155	LNN	Asc.	1.3598	0.3994	-0.6727	190	---	---	21.3S	122.5W	14 03 2195 B.C.E.
04313	Nov 17 2195 B.C.E.	10:46:08	0920019.9486991	-2195	Nov 18 00:58:42	051155	LPU	Dec.	0.8984	1.2075	0.2116	269	098	---	15.4N	163.5W	14 08 2195 B.C.E.
04314	May 12 2194 B.C.E.	21:41:24	0920196.4037460	-2194	May 13 11:53:35	051130	LPU	Asc.	-0.6722	1.6327	0.6167	316	169	---	13.0S	32.7E	13 02 2194 B.C.E.
04315	Nov 06 2194 B.C.E.	21:08:05	0920374.3806148	-2194	Nov 07 11:20:13	051130	LPU	Dec.	0.2355	2.4518	1.4004	350	218	087	10.9N	41.2E	15 08 2194 B.C.E.
04316	May 01 2193 B.C.E.	09:26:38	0920550.8934947	-2193	May 02 23:38:24	051104	LTU	Asc.	0.1237	2.6128	1.6489	326	210	098	8.5S	142.5W	13 01 2193 B.C.E.
04317	Oct 26 2193 B.C.E.	00:11:06	0920782.5077033	-2193	Oct 26 14:22:49	051104	LTU	Dec.	-0.4630	2.0583	0.9594	359	206	---	5.9N	4.1W	14 07 2193 B.C.E.
04318	Apr 21 2192 B.C.E.	01:58:37	0920905.5823672	-2192	Apr 21 16:09:55	051078	LPU	Asc.	0.8556	1.2579	0.3179	264	105	---	3.8S	29.2W	14 01 2192 B.C.E.
04319	Oct 14 2192 B.C.E.	23:11:06	0921082.4660412	-2192	Oct 15 13:22:24	051078	LNN	Dec.	-1.1345	0.8268	-0.2731	263	---	---	0.7N	11.7E	14 07 2192 B.C.E.
04320	Mar 12 2191 B.C.E.	10:09:44	0921230.9234250	-2191	Mar 13 00:20:35	051052	LPU	Asc.	-0.9706	1.0717	0.0825	262	060	---	9.6N	148.4W	14 12 2191 B.C.E.
04321	Sep 04 2191 B.C.E.	11:56:25	0921406.9975101	-2191	Sep 05 02:07:17	051052	LNN	Dec.	1.0736	0.8955	-0.1191	248	---	---	13.1S	178.4E	12 06 2191 B.C.E.
04322	Mar 01 2190 B.C.E.	18:56:02	0921585.2889098	-2190	Mar 02 09:06:26	051026	LTU	Asc.	-0.2439	2.4347	1.3869	356	223	088	14.0N	80.8E	15 12 2190 B.C.E.
04323	Aug 25 2190 B.C.E.	01:23:29	0921761.5579704	-2190	Aug 25 15:33:55	051026	LPU	Dec.	0.3314	2.2334	1.2663	315	197	071	17.1S	20.0W	13 05 2190 B.C.E.
04324	Feb 18 2189 B.C.E.	20:43:03	0921939.3632248	-2189	Feb 19 10:53:02	051000	LPU	Asc.	0.5013	1.9805	0.8966	357	203	---	18.0N	54.4E	14 11 2189 B.C.E.
04325	Aug 13 2189 B.C.E.	17:45:58	0922116.2402533	-2189	Aug 14 07:55:57	051000	LPU	Dec.	-0.3676	2.1630	1.2037	311	193	063	20.5S	94.3E	14 05 2189 B.C.E.
04326	Feb 06 2188 B.C.E.	21:04:03	0922293.3778070	-2188	Feb 07 11:13:37	050974	LNN	Asc.	1.2072	0.6814	-0.3916	237	---	---	21.5N	49.0E	14 11 2188 B.C.E.
04327	Aug 03 2188 B.C.E.	08:23:31	0922470.8496691	-2188	Aug 03 22:33:06	050974	LNN	Dec.	-1.1137	0.8114	-0.1824	234	---	---	23.3S	125.6W	14 04 2188 B.C.E.
04328	Dec 28 2188 B.C.E.	14:49:32	0922618.1177302	-2188	Dec 29 04:59:06	050974	LPU	Asc.	-0.9044	1.1984	0.1986	271	097	---	22.7N	138.9E	14 09 2188 B.C.E.
04329	Jan 24 2187 B.C.E.	03:01:57	0922795.6263538	-2187	Jan 24 17:11:05	050948	LPU	Dec.	0.8718	1.2890	0.2283	308	113	---	22.0S	47.8W	14 03 2187 B.C.E.
04330	Dec 18 2187 B.C.E.	05:26:25	0922972.7266811	-2187	Dec 18 19:35:34	050948	LTU	Asc.	-0.2029	2.4705	1.5006	317	203	089	22.2N	81.6W	13 09 2187 B.C.E.
04331	Jun 13 2186 B.C.E.	03:40:13	0923149.6529233	-2186	Jun 13 17:48:55	050922	LPU	Dec.	0.1195	2.6732	1.6051	373	234	103	20.8S	57.8W	14 03 2186 B.C.E.
04332	Dec 07 2186 B.C.E.	21:00:45	0923327.3755166	-2186	Dec 08 11:09:26	050922	LPU	Asc.	0.4702	1.9874	1.0028	310	187	008	20.8N	43.7E	14 09 2186 B.C.E.
04333	Jun 01 2185 B.C.E.	06:48:36	0923503.7837484	-2185	Jun 01 20:56:54	050897	LPU	Dec.	-0.6464	1.6866	0.6576	324	175	---	19.0S	105.2W	13 02 2185 B.C.E.
04334	Nov 26 2185 B.C.E.	08:53:19	0923681.8703614	-2185	Nov 26 23:01:36	050897	LNN	Asc.	1.1989	0.6765	-0.3597	224	---	---	18.6N	135.3W	14 08 2185 B.C.E.
04335	Apr 22 2184 B.C.E.	09:24:13	0923828.28918143	-2184	Apr 22 23:32:04	050871	LNN	Dec.	1.1749	0.6786	-0.2746	210	---	---	4.2S	140.4W	13 01 2184 B.C.E.
04336	May 21 2184 B.C.E.	17:04:02	0923858.2111397	-2184	May 22 07:11:53	050871	LNN	Dec.	-1.3637	0.3425	-0.6310	158	---	---	16.6S	101.0E	14 02 2184 B.C.E.
04337	Oct 16 2184 B.C.E.	18:41:48	0924006.7920243	-2184	Oct 17 08:49:39	050871	LNN	Asc.	-1.0767	0.9349	-0.1691	278	---	---	1.6N	79.1E	14 07 2184 B.C.E.
04338	Apr 12 2183 B.C.E.	02:27:07	0924183.6021668	-2183	Apr 12 16:34:33	050846	LTU	Dec.	0.4320	2.0360	1.0941	305	185	045	0.8S	35.3W	14 01 2183 B.C.E.
04339	Oct 05 2183 B.C.E.	17:59:23	0924360.2456993	-2183	Oct 06 08:06:50	050846											

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Astronomical Julian Date (UT)	Astronomical Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
											Pen.	Par.	Pen.	Tot.	Lat.	Lon.	Day	Month	Year
04388	Feb 09 2161 B.C.E.	00:41:51	0932156.5290594	-2161 Feb 09 14:39:52	050279	LTU	Dec.	0.3009	2.3331	1.2794	354	219	078	20.3N	5.5W	13	11	2161	B.C.E.
04389	Aug 04 2161 B.C.E.	14:33:55	0932234.1068826	-2161 Aug 05 04:31:52	050279	LTU	Asc.	-0.2925	2.3283	1.3146	338	213	079	22.2S	141.9E	14	05	2161	B.C.E.
04390	Jan 28 2160 B.C.E.	09:07:00	0932510.0798554	-2160 Jan 28 23:04:34	050253	LPU	Dec.	-0.4374	2.0558	1.0551	323	197	036	21.7N	132.6W	13	11	2160	B.C.E.
04391	Jul 24 2160 B.C.E.	20:41:54	0932688.3624328	-2160 Jul 25 10:39:26	050253	LPU	Asc.	0.4665	2.0339	0.9708	351	205	---	22.9S	49.0E	15	04	2160	B.C.E.
04392	Dec 19 2160 B.C.E.	13:36:41	0932866.0671364	-2160 Dec 20 03:34:14	050253	LNN	Dec.	1.5242	0.0453	-0.9230	057	---	---	24.2N	155.9E	13	09	2160	B.C.E.
04393	Jan 17 2159 B.C.E.	23:28:22	0932865.4780322	-2159 Jan 18 13:25:29	050227	LNN	Dec.	-1.1085	0.8064	-0.1586	224	---	---	22.4N	11.1E	14	10	2159	B.C.E.
04394	Jul 13 2159 B.C.E.	21:19:41	0933042.3886707	-2159 Jul 14 11:16:48	050227	LNN	Asc.	1.2134	0.6704	-0.4065	240	---	---	22.8S	38.7E	14	04	2159	B.C.E.
04395	Dec 09 2159 B.C.E.	04:29:34	0933190.6872042	-2159 Dec 09 18:26:41	050227	LPU	Dec.	0.9025	1.2015	0.2027	270	098	---	21.6N	68.3W	14	09	2159	B.C.E.
04396	Jun 03 2158 B.C.E.	11:34:18	0933266.9821549	-2158 Jun 04 01:31:01	050202	LPU	Asc.	-0.8254	1.3485	0.3386	295	130	---	19.6S	176.5W	13	02	2158	B.C.E.
04397	Nov 28 2158 B.C.E.	14:13:20	0933545.0925965	-2158 Nov 29 04:10:00	050202	LTU	Dec.	0.2345	2.4565	1.3996	352	220	088	18.2N	145.1E	14	08	2158	B.C.E.
04398	May 23 2157 B.C.E.	00:08:18	0933721.5057593	-2157 May 23 14:04:36	050176	LPU	Asc.	-0.0286	2.7846	1.8261	325	210	100	15.9S	4.6W	13	02	2157	B.C.E.
04399	Nov 16 2157 B.C.E.	16:35:03	0933899.1910028	-2157 Nov 17 06:31:19	050177	LPU	Dec.	-0.4617	2.0625	0.9601	361	207	---	14.1N	109.5E	14	08	2157	B.C.E.
04400	May 12 2156 B.C.E.	17:00:29	0934076.2086670	-2156 May 13 06:56:20	050151	LPU	Asc.	0.7090	1.5263	0.5874	281	144	---	11.9S	103.2E	14	02	2156	B.C.E.
04401	Nov 05 2156 B.C.E.	15:31:01	0934253.1465391	-2156 Nov 06 05:26:53	050151	LNN	Dec.	-1.1257	0.8425	-0.2566	264	---	---	9.5N	125.8E	14	08	2156	B.C.E.
04402	Apr 03 2155 B.C.E.	01:02:29	0934401.5433880	-2155 Apr 03 14:57:53	050125	LNN	Asc.	-1.1052	0.8258	-0.1654	238	---	---	1.3N	13.7W	15	13	2155	B.C.E.
04403	May 02 2155 B.C.E.	09:35:24	0934430.8995802	-2155 May 02 23:30:50	050125	LNN	Asc.	1.4683	0.1451	-0.8176	103	---	---	7.5S	144.4W	14	01	2155	B.C.E.
04404	Sep 26 2155 B.C.E.	04:42:55	0934577.6964716	-2155 Sep 26 18:38:20	050125	LNN	Dec.	1.0991	0.8484	-0.1656	241	---	---	4.9S	70.9W	13	06	2155	B.C.E.
04405	Mar 23 2154 B.C.E.	09:06:42	0934755.8796476	-2154 Mar 23 23:01:40	050100	LTU	Asc.	-0.3745	2.1951	1.1471	353	214	060	6.1N	133.4W	14	12	2154	B.C.E.
04406	Sep 15 2154 B.C.E.	18:24:23	0934932.2669319	-2154 Sep 16 08:19:24	050100	LTU	Dec.	0.3761	2.1529	1.1829	312	193	060	9.7S	84.4E	14	06	2154	B.C.E.
04407	Mar 11 2153 B.C.E.	10:36:43	0935109.9421075	-2153 Mar 12 00:31:12	050074	LTU	Asc.	0.3798	2.2004	1.1226	365	218	056	10.9N	154.8W	14	12	2153	B.C.E.
04408	Sep 04 2153 B.C.E.	12:29:38	0935286.9373006	-2153 Sep 05 00:24:16	050074	LPU	Dec.	-0.3084	2.2759	1.3080	315	198	075	14.2S	156.4W	14	06	2153	B.C.E.
04409	Feb 28 2152 B.C.E.	11:37:43	0935463.9845230	-2152 Mar 01 01:31:51	050048	LNN	Asc.	1.1028	0.8638	-0.1941	261	---	---	15.4N	169.3W	13	12	2152	B.C.E.
04410	Aug 25 2152 B.C.E.	00:18:09	0935641.5126071	-2152 Aug 25 14:12:17	050048	LNN	Dec.	-1.0454	0.9433	-0.0635	252	---	---	18.2S	3.4W	15	05	2152	B.C.E.
04411	Jan 19 2151 B.C.E.	07:45:03	0935788.8229538	-2151 Jan 19 21:38:45	050022	LPU	Asc.	-0.9353	1.1363	0.1475	264	081	---	22.4N	112.7W	13	10	2151	B.C.E.
04412	Jul 15 2151 B.C.E.	16:36:08	0935966.1917575	-2151 Jul 16 06:29:50	050022	LNT	Dec.	1.0183	1.0249	-0.0451	284	---	---	23.0S	110.0E	14	04	2151	B.C.E.
04413	Jan 08 2150 B.C.E.	22:57:47	0936143.4567972	-2150 Jan 09 12:51:04	049997	LTU	Asc.	-0.2278	2.4220	1.4578	316	201	086	23.7N	18.0E	14	10	2150	B.C.E.
04414	Jul 04 2150 B.C.E.	16:54:58	0936320.2048358	-2150 Jul 05 06:48:16	049997	LTU	Dec.	0.2773	2.3845	1.3144	367	226	083	23.5S	104.4E	14	04	2150	B.C.E.
04415	Dec 29 2150 B.C.E.	14:35:09	0936498.1077737	-2150 Dec 30 04:28:24	049997	LTU	Asc.	0.4579	2.0103	1.0255	312	189	024	24.1N	142.3E	14	10	2150	B.C.E.
04416	Jun 22 2149 B.C.E.	20:39:38	0936674.3608557	-2149 Jun 23 10:32:31	049971	LPU	Dec.	-0.4872	1.9768	0.9515	336	199	---	23.1S	47.5E	13	03	2149	B.C.E.
04417	Dec 18 2149 B.C.E.	02:00:32	0936852.5837058	-2149 Dec 18 15:53:23	049971	LNN	Asc.	1.1994	0.6772	-0.3623	225	---	---	23.6N	30.4W	14	09	2149	B.C.E.
04418	May 14 2148 B.C.E.	00:15:46	0936999.5109455	-2148 May 14 14:08:11	049945	LNN	Dec.	1.3165	0.4163	-0.5318	168	---	---	11.8S	5.3W	14	02	2148	B.C.E.
04419	Jun 12 2148 B.C.E.	07:42:52	0937028.8214360	-2148 Jun 12 21:35:17	049945	LNN	Dec.	-1.2091	0.6241	-0.3453	206	---	---	22.1S	118.9W	13	03	2148	B.C.E.
04420	Nov 07 2148 B.C.E.	10:56:21	0937176.9557957	-2148 Nov 08 00:48:45	049945	LNN	Asc.	-1.0868	0.9179	-0.1892	277	---	---	10.2N	165.4W	14	08	2148	B.C.E.
04421	Apr 03 2147 B.C.E.	17:31:25	0937354.2301447	-2147 Apr 04 07:23:25	049921	LPU	Dec.	0.5798	1.7648	0.8231	295	167	---	8.9S	96.3E	14	01	2147	B.C.E.
04422	Oct 27 2147 B.C.E.	10:23:07	0937530.9327244	-2147 Oct 28 00:15:10	049921	LPU	Asc.	-0.4026	2.1637	1.0757	358	212	044	6.5N	157.1W	13	07	2147	B.C.E.
04423	Apr 23 2146 B.C.E.	09:11:23	0937708.8828994	-2146 Apr 23 23:02:55	049895	LTU	Dec.	-0.1702	2.5341	1.5570	331	213	095	5.6S	137.9W	14	01	2146	B.C.E.
04424	Oct 16 2146 B.C.E.	15:40:07	0937885.1528608	-2146 Oct 17 05:31:44	049895	LPU	Asc.	0.3035	2.3172	1.2854	339	211	076	2.6N	123.8E	13	07	2146	B.C.E.
04425	Apr 11 2145 B.C.E.	19:00:30	0938063.2920176	-2145 Apr 12 08:51:39	049869	LPU	Dec.	-0.9810	1.0746	0.0418	279	048	---	2.1S	75.6E	15	01	2145	B.C.E.
04426	Oct 05 2145 B.C.E.	03:59:41	0938239.6664437	-2145 Oct 05 17:50:50	049869	LPU	Asc.	0.9645	1.0787	0.0978	254	061	---	1.2S	60.5W	13	07	2145	B.C.E.
04427	Mar 02 2144 B.C.E.	06:00:10	0938387.7501136	-2144 Mar 02 19:50:54	049844	LNN	Dec.	1.1076	0.8656	-0.2133	268	---	---	14.7N	84.8W	14	12	2144	B.C.E.
04428	Aug 26 2144 B.C.E.	09:52:19	0938564.9113317	-2144 Aug 26 23:43:02	049844	LNN	Asc.	-1.0253	0.9635	-0.1022	244	---	---	17.7S	146.7W	14	05	2144	B.C.E.
04429	Feb 19 2143 B.C.E.	08:10:14	0938741.8404401	-2143 Feb 19 22:00:34	049818	LTU	Dec.	0.3468	2.2455	1.1984	350	215	067	17.5N	117.0E	13	11	2143	B.C.E.
04430	Aug 15 2143 B.C.E.	22:19:32	0938919.4302346	-2143 Aug 16 12:09:48	049818	LTU	Asc.	-0.3364	2.2511	1.2306	338	210	070	20.0S	26.0E	15	05	2143	B.C.E.
04431	Feb 08 2142 B.C.E.	17:05:59	0939096.1252684	-2142 Feb 09 06:59:53	049792	LTU	Dec.	-0.4008	2.1197	1.1253	323	200	052	19.6N	107.1E	13	11	2142	B.C.E.
04432	Aug 05 2142 B.C.E.	03:53:00	0939273.6617998	-2142 Aug 05 17:42:50	049792	LTU	Asc.	0.4126	2.1357	1.0668	356	212	041	21.5S	58.1W	14	05	2142	B.C.E.
04433	Dec 30 2142 B.C.E.	22:23:59	0939421.4333258	-2142 Dec 31 12:13:52	049792	LNN	Dec.	1.5354	0.0239	-0.9426	041	---	---	25.3N	25.4E	14	10	2142	B.C.E.
04434	Jan 29 2141 B.C.E.	07:53:54	0939540.8290996	-2141 Jan 29 21:43:21	049767	LNN	Dec.	-1.0803	0.8563	-0.1049	229	---	---	21.0N	114.5W	13	11	2141	B.C.E.
04435	Jul 24 2141 B.C.E.	04:13:16	0939627.6758801	-2141 Jul 24 18:02:43	049767	LNN	Asc.	1.1496	0.7888	-0.2908	258	---	---	22.3S	63.9W	14	04	2141	B.C.E.
04436	Dec 19 2141 B.C.E.	13:14:22	0939776.0516405	-2141 Dec 20 03:03:48	049767	LPU	Dec.	0.9099	1.1884	0.1887	270	095	---	23.6N	161.5E	14	09	2141	B.C.E.
04437	Jun 13 2140 B.C.E.	18:37:24	0939952.7579719	-2140 Jun 14 08:26:26	049741	LPU	Asc.	-0.8980	1.2142	0.2066	283	103	---	22.1S	77.8E	13	03	2140	B.C.E.
04438	Dec 08 2140 B.C.E.	22:40:39	0940130.4448960	-2140 Dec 09 12:29:38	049741	LPU	Dec.	0.2373	2.4521										

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time (UT)	(JD)	Time of Maximum Eclipse		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
04495	Jul	26	2114	B.C.E.	06:41:16	0949490.7786575	-2114	Jul	26	20:19:17	049080	LTU	Dec.	0.4104	2.1419	1.0689	360	213	042	22.8S	100.6W	13	04	2114	B.C.E.
04496	Jan	20	2113	B.C.E.	07:41:11	0949668.8202665	-2113	Jan	20	21:18:45	049055	LTU	Asc.	0.4246	2.0708	1.0868	316	193	044	23.7N	111.7W	14	10	2113	B.C.E.
04497	Jul	14	2113	B.C.E.	11:01:05	0949844.9590877	-2113	Jul	15	00:38:42	049055	LTU	Dec.	-0.3493	2.2289	1.2055	342	212	068	24.2N	166.4W	13	04	2113	B.C.E.
04498	Jan	08	2112	B.C.E.	18:39:25	0950023.2773739	-2112	Jan	09	08:16:34	049029	LNN	Asc.	1.1807	0.7122	-0.3286	232	---	---	25.0N	82.5E	15	10	2112	B.C.E.
04499	Jun	04	2112	B.C.E.	15:11:21	0950170.1328798	-2112	Jun	05	04:48:30	049029	LNN	Dec.	1.4562	0.1588	-0.7871	106	---	---	17.9S	129.9E	13	03	2112	B.C.E.
04500	Jul	03	2112	B.C.E.	22:43:21	0950199.4467712	-2112	Jul	04	12:20:30	049029	LNN	Dec.	-1.0689	0.8805	-0.0872	237	---	---	24.8S	17.1E	13	04	2112	B.C.E.
04501	Nov	29	2112	B.C.E.	03:13:05	0950347.6340902	-2112	Nov	29	16:50:15	049029	LNN	Asc.	-1.0941	0.9044	-0.2024	275	---	---	17.4N	49.4W	14	09	2112	B.C.E.
04502	Nov	25	2111	B.C.E.	08:28:29	0950524.8531081	-2111	Nov	25	22:05:12	049004	LPU	Dec.	0.7326	1.4856	0.5414	281	140	---	15.8S	129.4W	14	02	2111	B.C.E.
04503	Nov	18	2111	B.C.E.	03:00:06	0950701.6250695	-2111	Nov	18	16:36:51	049004	LPU	Asc.	-0.4049	2.1574	1.0735	356	211	043	14.6N	46.7W	13	08	2111	B.C.E.
04504	May	14	2110	B.C.E.	23:37:27	0950879.4843444	-2110	May	15	13:13:42	048978	LTU	Dec.	-0.0148	2.8222	1.8393	336	218	102	13.3S	3.6E	15	02	2110	B.C.E.
04505	Nov	07	2110	B.C.E.	09:01:20	0951055.8759257	-2110	Nov	07	22:37:41	048979	LTU	Asc.	0.2999	2.3215	1.2941	337	210	077	11.3N	137.3W	12	08	2110	B.C.E.
04506	May	03	2109	B.C.E.	08:32:00	0951233.8555583	-2109	May	03	22:07:54	048954	LPU	Dec.	-0.8229	1.3670	0.3297	307	132	---	10.2S	129.5W	14	01	2109	B.C.E.
04507	Oct	26	2109	B.C.E.	21:47:45	0951410.4081586	-2109	Oct	27	11:23:39	048954	LPU	Asc.	0.9544	1.0970	0.1166	255	067	---	7.8N	31.1E	14	06	2109	B.C.E.
04508	Mar	23	2108	B.C.E.	19:36:04	0951558.3167072	-2108	Mar	24	09:11:31	048928	LNN	Dec.	1.2422	0.6145	-0.4562	230	---	---	6.9N	69.8E	14	12	2108	B.C.E.
04509	Sep	17	2108	B.C.E.	02:45:37	0951735.6150132	-2108	Sep	17	16:21:05	048928	LNN	Asc.	-1.0749	0.8776	-0.1062	236	---	---	10.2S	40.4W	14	06	2108	B.C.E.
04510	Dec	12	2107	B.C.E.	22:44:43	0951912.4477200	-2107	Dec	13	12:19:48	048903	LPU	Dec.	0.4595	2.0321	0.9981	340	202	---	10.5N	23.2E	13	12	2107	B.C.E.
04511	Sep	06	2107	B.C.E.	14:14:42	0952090.0935405	-2107	Sep	07	03:49:43	048903	LPU	Asc.	-0.4019	2.1378	1.1039	338	205	049	13.5S	147.4E	14	06	2107	B.C.E.
04512	Mar	02	2106	B.C.E.	08:54:15	0952266.8710043	-2106	Mar	02	22:28:54	048878	LTU	Dec.	-0.3070	2.2858	1.3037	325	005	077	13.5N	128.9W	13	12	2106	B.C.E.
04513	Aug	26	2106	B.C.E.	18:38:23	0952444.2766535	-2106	Aug	27	08:13:00	048878	LTU	Asc.	0.3250	2.3022	1.2218	364	221	072	16.5S	81.2E	15	05	2106	B.C.E.
04514	Feb	20	2105	B.C.E.	00:23:10	0952621.5161549	-2105	Feb	20	13:57:28	048852	LNN	Dec.	-1.0055	0.9896	0.0360	242	041	---	16.1N	1.2W	14	11	2105	B.C.E.
04515	Jan	14	2105	B.C.E.	18:27:10	0952798.2688704	-2105	Jan	15	08:01:23	048852	LNN	Asc.	1.0414	0.9901	-0.0948	283	---	---	18.8S	83.6E	14	05	2105	B.C.E.
04516	Jan	10	2104	B.C.E.	06:23:23	0952946.7662366	-2104	Jan	10	19:57:09	048827	LPU	Dec.	0.9403	1.1328	0.1327	267	081	---	24.8N	93.1W	14	10	2104	B.C.E.
04517	Jul	05	2104	B.C.E.	09:04:03	0953122.8778180	-2104	Jul	05	22:37:51	048827	LNN	Asc.	-1.0290	0.9722	-0.0323	258	---	---	24.8S	137.7W	13	04	2104	B.C.E.
04518	Dec	30	2104	B.C.E.	15:16:33	0953301.1364960	-2104	Dec	31	04:50:18	048827	LTU	Dec.	0.2564	2.4179	1.3577	355	220	085	24.0N	132.2E	15	10	2104	B.C.E.
04519	Jan	24	2103	B.C.E.	22:33:49	0953477.4015113	-2103	Jan	25	12:07:11	048801	LTU	Asc.	-0.2435	2.3887	1.4333	318	202	086	23.2S	19.2E	14	03	2103	B.C.E.
04520	Dec	19	2103	B.C.E.	16:52:46	0953655.2033114	-2103	Dec	20	06:26:06	048801	LPU	Dec.	-0.4466	2.0897	0.9883	363	209	---	22.2N	106.9E	14	09	2103	B.C.E.
04521	Jun	14	2103	B.C.E.	15:26:09	0953832.1501018	-2102	Jun	15	05:09:05	048776	LPU	Asc.	0.4916	1.9272	0.9845	301	179	---	20.8S	123.3E	13	03	2102	B.C.E.
04522	Dec	08	2102	B.C.E.	16:08:48	0954009.1277777	-2102	Dec	09	05:41:43	048776	LNN	Dec.	-1.1444	0.8595	-0.2321	265	---	---	19.6N	110.0E	14	09	2102	B.C.E.
04523	May	04	2101	B.C.E.	22:32:15	0954157.4390644	-2101	May	05	12:04:46	048751	LNN	Asc.	-1.3381	0.4019	-0.5962	175	---	---	11.4S	23.3E	15	01	2101	B.C.E.
04524	Jun	03	2101	B.C.E.	07:30:10	0954186.8126148	-2101	Jun	03	21:02:41	048751	LNN	Asc.	1.2615	0.5295	-0.4431	192	---	---	17.8S	115.1W	14	02	2101	B.C.E.
04525	Oct	28	2101	B.C.E.	06:46:24	0954333.7822187	-2101	Oct	28	20:18:55	048751	LNN	Dec.	1.0997	0.8454	-0.1649	238	---	---	8.5N	103.5W	13	07	2101	B.C.E.
04526	Apr	24	2100	B.C.E.	05:22:12	0954511.7237479	-2100	Apr	24	18:54:16	048725	LPU	Asc.	-0.6124	1.7600	0.7092	337	184	---	6.7S	80.9E	14	01	2100	B.C.E.
04527	Oct	17	2100	B.C.E.	20:51:08	0954688.3688386	-2100	Oct	18	10:23:14	048726	LPU	Dec.	0.3991	2.1121	1.1391	310	191	053	3.6N	46.0E	14	07	2100	B.C.E.
04528	Apr	13	2099	B.C.E.	06:27:23	0954865.7690210	-2099	Apr	13	19:59:05	048701	LTU	Asc.	0.1483	2.6212	1.5513	373	234	101	1.7S	95.8W	14	01	2099	B.C.E.
04529	Oct	07	2099	B.C.E.	12:31:05	0955043.0215862	-2099	Oct	08	02:45:45	048701	LTU	Dec.	-0.2693	2.3537	1.3738	319	203	081	1.4S	171.8E	14	07	2099	B.C.E.
04530	Apr	02	2098	B.C.E.	08:37:16	0955219.8592159	-2098	Apr	02	22:08:33	048676	LPU	Asc.	0.8971	1.2324	0.1917	296	102	---	3.3N	126.8W	13	13	2098	B.C.E.
04531	Sep	27	2098	B.C.E.	01:04:56	0955397.5450938	-2098	Sep	27	14:36:12	048676	LPU	Dec.	-0.9939	1.0742	0.0218	266	034	---	6.5S	15.9W	15	06	2098	B.C.E.
04532	Feb	21	2097	B.C.E.	08:12:38	0955544.8421012	-2097	Feb	21	21:43:28	048650	LNN	Asc.	-1.0310	0.9520	-0.0197	244	---	---	15.7N	118.3W	13	11	2097	B.C.E.
04533	Aug	16	2097	B.C.E.	13:53:32	0955722.0788379	-2097	Aug	17	03:24:21	048650	LNN	Dec.	1.1859	0.7249	-0.3598	248	---	---	18.2S	152.3E	14	05	2097	B.C.E.
04534	Feb	10	2096	B.C.E.	00:18:48	0955899.5130583	-2096	Feb	10	13:49:13	048625	LTU	Asc.	-0.3111	2.2647	1.3095	312	196	075	19.2N	0.2E	14	11	2096	B.C.E.
04535	Aug	05	2096	B.C.E.	13:48:51	0956077.6677673	-2096	Aug	06	03:19:17	048625	LPU	Dec.	0.4654	2.0417	0.9671	355	207	---	21.3S	153.1E	13	05	2096	B.C.E.
04536	Jan	30	2095	B.C.E.	16:00:25	0956254.1669519	-2095	Jan	31	05:30:23	048600	LTU	Asc.	0.3978	2.1198	1.1364	318	196	054	22.1N	124.4E	15	11	2095	B.C.E.
04537	Jul	25	2095	B.C.E.	18:25:27	0956430.2676773	-2095	Jul	26	07:55:29	048600	LTU	Dec.	-0.2900	2.3374	1.3145	343	215	080	23.5S	83.3E	13	04	2095	B.C.E.
04538	Jan	20	2094	B.C.E.	02:44:21	0956608.6141284	-2094	Jan	20	16:13:55	048574	LNN	Asc.	1.1612	0.7480	-0.2929	238	---	---	24.3N	37.5W	15	10	2094	B.C.E.
04539	Jan	15	2094	B.C.E.	22:44:48	0956755.4477730	-2094	Jan	16	12:14:21	048574	LNN	Dec.	1.5219	0.0383	-0.9075	052								

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time	(JD)	Time		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
04602	Jan	10	2066	B.C.E.	08:34:13	0966825.8570923	-2066	Jan	10	21:52:03	047871	LTU	Dec.	-0.4117	2.1517	1.0546	365	214	038	23.5N	126.0W	14	10	2066	B.C.E.
04603	Jul	06	2066	B.C.E.	06:56:17	0967002.7890849	-2066	Jul	06	20:14:07	047871	LNU	Asc.	0.3607	2.1702	1.2218	310	192	066	23.5S	105.8W	14	04	2066	B.C.E.
04604	Dec	30	2066	B.C.E.	08:18:49	0967179.8463992	-2066	Dec	30	21:36:41	047871	LNN	Dec.	-1.0908	0.8985	-0.1844	268	---	---	22.7N	123.5W	13	10	2066	B.C.E.
04605	May	26	2065	B.C.E.	12:34:25	0967328.0238975	-2065	May	27	01:51:52	047846	LNN	Asc.	-1.5017	0.1056	-0.9001	093	---	---	18.5S	168.5E	14	02	2065	B.C.E.
04606	Jun	24	2065	B.C.E.	22:10:41	0967357.4240822	-2065	Jun	25	11:28:07	047846	LNN	Asc.	1.1292	0.7771	-0.2051	229	---	---	21.9S	25.0E	15	03	2065	B.C.E.
04607	Nov	19	2065	B.C.E.	00:26:44	0967504.5185677	-2065	Nov	19	13:44:10	047846	LNN	Dec.	1.0896	0.8613	-0.1438	239	---	---	16.5N	8.8W	13	08	2065	B.C.E.
04608	May	15	2064	B.C.E.	18:27:22	0967682.2690078	-2064	May	16	07:44:23	047821	LPU	Asc.	-0.7867	1.4421	0.3874	319	144	---	14.5S	80.9E	15	02	2064	B.C.E.
04609	Nov	08	2064	B.C.E.	14:51:30	0967859.1190966	-2064	Nov	09	04:08:31	047821	LNU	Dec.	0.3973	2.1156	1.1424	309	191	054	12.2N	135.1E	13	08	2064	B.C.E.
04610	May	04	2063	B.C.E.	19:18:27	0968036.3044843	-2063	May	05	08:35:05	047796	LPU	Asc.	-0.0256	2.8445	1.7783	374	236	106	10.0S	69.2E	14	01	2063	B.C.E.
04611	Oct	29	2063	B.C.E.	06:17:09	0968213.7619125	-2063	Oct	29	19:33:44	047796	LPU	Dec.	-0.2665	2.3621	1.3758	321	204	081	7.5N	95.9W	14	07	2063	B.C.E.
04612	Apr	23	2062	B.C.E.	22:16:51	0968390.4283705	-2062	Apr	24	11:33:03	047771	LPU	Asc.	0.7377	1.5201	0.4891	315	155	---	5.3S	25.9E	13	01	2062	B.C.E.
04613	Oct	18	2062	B.C.E.	18:05:29	0968568.2538117	-2062	Oct	19	07:21:41	047772	LPU	Dec.	-0.9877	1.0638	0.0280	270	039	---	2.5N	87.7E	15	07	2062	B.C.E.
04614	Mar	13	2061	B.C.E.	23:53:45	0968715.4956650	-2061	Mar	14	13:09:32	047747	LNN	Asc.	-1.1281	0.7686	-0.1927	222	---	---	8.3N	5.3E	13	12	2061	B.C.E.
04615	Apr	12	2061	B.C.E.	08:12:45	0968744.8421898	-2061	Apr	12	21:28:33	047747	LNN	Asc.	1.4450	0.1953	-0.7821	121	---	---	0.5S	121.7W	13	01	2061	B.C.E.
04616	Sep	07	2061	B.C.E.	04:49:25	0968892.7099836	-2061	Sep	07	18:05:12	047747	LNN	Dec.	1.2584	0.5963	-0.4975	229	---	---	11.6S	71.8W	14	06	2061	B.C.E.
04617	Mar	03	2060	B.C.E.	16:31:06	0969070.1882687	-2060	Mar	04	05:46:28	047722	LPU	Asc.	-0.4014	2.0964	1.1463	307	188	055	12.7N	116.8E	14	12	2060	B.C.E.
04618	Aug	27	2060	B.C.E.	04:36:16	0969246.6918576	-2060	Aug	27	17:51:40	047722	LPU	Asc.	0.5506	1.8869	0.8093	348	194	---	15.9S	68.2W	13	05	2060	B.C.E.
04619	Feb	21	2059	B.C.E.	08:10:12	0969424.8404133	-2059	Feb	21	25:07:07	047697	LPU	Asc.	0.3224	2.2577	1.2752	324	203	074	16.8N	117.5W	14	11	2059	B.C.E.
04620	Aug	16	2059	B.C.E.	09:46:31	0969600.9073086	-2059	Aug	16	23:01:31	047697	LPU	Dec.	-0.1955	2.5107	1.4589	344	219	093	19.6S	145.8W	13	05	2059	B.C.E.
04621	Feb	10	2058	B.C.E.	18:24:30	0969779.2670133	-2058	Feb	11	07:39:02	047672	LNN	Asc.	1.1012	0.8581	-0.1827	253	---	---	20.4N	89.0E	15	11	2058	B.C.E.
04622	Aug	05	2058	B.C.E.	22:12:48	0969955.4255524	-2058	Aug	06	11:27:20	047672	LPU	Dec.	-0.9020	1.1873	0.2184	264	092	---	22.6S	27.2E	13	05	2058	B.C.E.
04623	Jan	01	2057	B.C.E.	03:09:10	0970103.6313671	-2057	Jan	01	16:23:16	047646	LNN	Asc.	-1.1269	0.8409	-0.2593	266	---	---	22.8N	45.7W	14	10	2057	B.C.E.
04624	Jun	26	2057	B.C.E.	07:05:34	0970280.7955301	-2057	Jun	26	20:19:39	047646	LPU	Dec.	0.9484	1.0941	0.1411	254	066	---	22.2S	108.4W	14	03	2057	B.C.E.
04625	Dec	20	2057	B.C.E.	03:50:50	0970457.6599696	-2057	Dec	20	17:04:29	047646	LPU	Asc.	-0.4166	2.1298	1.0580	351	208	038	22.4N	57.3W	13	09	2057	B.C.E.
04626	Jun	15	2056	B.C.E.	21:07:01	0970635.3798761	-2056	Jun	16	10:20:40	047621	LNU	Dec.	0.2186	2.4551	1.4589	337	216	091	21.5S	40.6E	15	03	2056	B.C.E.
04627	Dec	09	2056	B.C.E.	11:12:16	0970811.9668545	-2056	Dec	10	00:25:59	047621	LPU	Asc.	0.2971	2.3211	1.3048	333	209	077	21.2N	169.0W	12	09	2056	B.C.E.
04628	Jun	05	2055	B.C.E.	08:24:19	0970989.6863300	-2055	Jun	05	17:41:34	047596	LPU	Dec.	-0.5735	1.8297	0.7822	339	190	---	20.0S	70.1W	14	03	2055	B.C.E.
04629	Nov	29	2055	B.C.E.	00:46:06	0971166.5320109	-2055	Nov	29	13:59:22	047596	LPU	Asc.	0.9512	1.1007	0.1245	254	068	---	19.3N	13.4W	13	09	2055	B.C.E.
04630	Apr	25	2054	B.C.E.	15:17:36	0971314.1322278	-2054	Apr	26	04:30:28	047571	LNN	Dec.	1.4777	0.1772	-0.8833	128	---	---	5.4S	130.9E	13	01	2054	B.C.E.
04631	May	25	2054	B.C.E.	05:52:33	0971343.7448235	-2054	May	25	19:05:23	047571	LNN	Dec.	-1.3500	0.4153	-0.6527	194	---	---	17.7S	91.2W	14	02	2054	B.C.E.
04632	Oct	20	2054	B.C.E.	04:53:45	0971491.7039957	-2054	Oct	20	18:06:36	047571	LNN	Asc.	-1.1077	0.8240	-0.1731	232	---	---	3.1N	74.5W	14	07	2054	B.C.E.
04633	Jan	13	2053	B.C.E.	19:57:07	0971668.3313363	-2053	Jan	14	09:09:35	047546	LPU	Dec.	0.6682	1.6403	0.6237	316	169	---	1.9S	61.9E	13	01	2053	B.C.E.
04634	Oct	08	2053	B.C.E.	14:58:45	0971846.1241269	-2053	Oct	09	04:11:09	047546	LPU	Asc.	-0.4519	2.0549	1.0033	340	201	009	0.8S	134.8E	14	07	2053	B.C.E.
04635	Apr	03	2052	B.C.E.	07:44:37	0972022.8226524	-2052	Apr	03	20:56:40	047521	LNU	Dec.	-0.1209	2.6191	1.6530	326	210	097	1.7N	114.1W	13	13	2052	B.C.E.
04636	Sep	27	2052	B.C.E.	17:49:35	0972200.2427714	-2052	Sep	28	07:01:37	047522	LNU	Asc.	0.2480	2.4511	1.3559	371	227	087	4.7S	92.4E	14	06	2052	B.C.E.
04637	Mar	24	2051	B.C.E.	00:08:58	0972377.5062273	-2051	Mar	24	13:20:35	047497	LPU	Dec.	-0.8442	1.2809	0.3365	266	100	---	5.1N	0.5E	14	12	2051	B.C.E.
04638	Sep	16	2051	B.C.E.	17:06:02	0972554.5125185	-2051	Sep	17	06:17:39	047497	LPU	Asc.	0.9370	1.1850	0.0935	302	074	---	8.6S	103.6E	14	06	2051	B.C.E.
04639	Aug	12	2050	B.C.E.	06:59:19	0972702.7911964	-2050	Aug	12	20:10:31	047472	LNN	Dec.	1.0370	0.9552	-0.0446	252	---	---	19.9N	99.5W	14	11	2050	B.C.E.
04640	Feb	07	2050	B.C.E.	07:50:26	0972879.8266937	-2050	Feb	07	21:01:38	047472	LNN	Asc.	-1.1787	0.6968	-0.3061	222	---	---	22.5S	116.8W	13	05	2050	B.C.E.
04641	Feb	01	2049	B.C.E.	15:04:14	0973057.1279423	-2049	Feb	02	04:14:59	047447	LNU	Dec.	0.3349	2.2736	1.2140	355	216	070	21.7N	138.6E	11	01	2049	B.C.E.
04642	Jan	26	2049	B.C.E.	21:55:41	0973233.4136666	-2049	Jan	27	11:06:29	047447	LNU	Asc.	-0.4168	2.0719	1.1144	309	189	049	23.4S	131.0E	14	04	2049	B.C.E.
04643	Jan	20	2048	B.C.E.	16:12:18	0973411.1752105	-2048	Jan	21	05:22:40	047422	LNU	Dec.	-0.3839	2.2013	1.1069	367	217	052	22.8N	120.5E	14	10	2048	B.C.E.
04644	Jan	16	2048	B.C.E.	14:44:32	0973588.1142538	-2048	Jan	17	03:54:53	047422	LNU	Asc.	0.3022	2.2794	1.3273	313	197	077	23.5S	137.9E	14	04	2048	B.C.E.
04645	Jan	09	2047	B.C.E.	16:14:31	0973765.1767435	-2047	Jan	10	05:24:28	047397	LNN	Dec.	-1.0698	0.9343	-0.1433	271	---	---	22.9N	118.8E	14	10	2047	B.C.E.
04646	Jan	06	2047	B.C.E.	05:35:56	0973942.7332815	-2047	Jan	06	18:45:52	047397	LNN	Asc.	1.0680	0.8223	-0.0956	244	---	---	22.8S					

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)	Year	Month	Day	Time (UT)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Year	Month	Day					
04709	Jan	10	2020	B.C.E.	20:02:27	0983628.3350325	-2020	Jan	11	09:01:17	046728	LTU	Asc.	-0.4457	2.0708	1.0102	346	204	016	23.4N	62.1E	13	10	2020	B.C.E.
04710	Jul	07	2020	B.C.E.	11:37:43	0983805.9845265	-2020	Jul	08	00:26:29	046728	LTU	Dec.	0.3599	2.2015	1.1939	335	208	065	23.5S	175.9W	14	04	2020	B.C.E.
04711	Dec	31	2020	B.C.E.	04:24:56	0983982.6839865	-2020	Dec	31	17:23:46	046728	LTU	Asc.	0.2796	2.3481	1.3420	331	209	080	24.1N	64.9W	13	10	2020	B.C.E.
04712	Jun	26	2019	B.C.E.	17:52:14	0984160.2446012	-2019	Jun	27	06:50:35	046703	LTU	Dec.	-0.4155	2.1242	1.0677	354	212	042	23.6S	89.6E	15	03	2019	B.C.E.
04713	Dec	20	2019	B.C.E.	18:36:21	0984337.2752466	-2019	Dec	21	07:34:44	046703	LPU	Asc.	0.4155	1.1154	0.1443	255	072	---	23.8N	80.9E	14	09	2019	B.C.E.
04714	Jun	15	2018	B.C.E.	18:44:32	0984514.2809309	-2018	Jun	16	07:42:31	046678	LNN	Dec.	-1.1785	0.7309	-0.3388	249	---	---	22.7S	75.9E	14	03	2018	B.C.E.
04715	Nov	10	2018	B.C.E.	22:36:50	0984662.4422465	-2018	Nov	11	11:34:48	046678	LNN	Asc.	-1.1131	0.8175	-0.1862	233	---	---	11.6N	119.3E	15	08	2018	B.C.E.
04716	May	05	2017	B.C.E.	09:53:39	0984838.9122627	-2017	May	05	22:51:15	046654	LPU	Dec.	0.8211	1.3551	0.3477	295	131	---	9.8S	149.4W	13	02	2017	B.C.E.
04717	Oct	30	2017	B.C.E.	07:51:41	0985016.8275600	-2017	Oct	30	20:49:14	046654	LPU	Asc.	-0.4621	2.0408	0.9801	342	201	---	8.1N	119.5W	14	08	2017	B.C.E.
04718	Apr	24	2016	B.C.E.	22:37:31	0985193.4427155	-2016	Apr	25	11:34:42	046629	LTU	Dec.	0.0246	2.7918	1.8338	325	210	100	6.6S	20.3E	13	01	2016	B.C.E.
04719	Oct	19	2016	B.C.E.	09:52:14	0985370.9112711	-2016	Oct	19	22:49:22	046629	LTU	Asc.	0.2268	2.4935	1.3914	374	228	090	4.2N	149.4W	14	07	2016	B.C.E.
04720	Apr	14	2015	B.C.E.	15:28:45	0985548.1449628	-2015	Apr	15	04:25:29	046604	LPU	Dec.	-0.7105	1.5246	0.5837	281	144	---	3.3S	128.3E	13	01	2015	B.C.E.
04721	Oct	08	2015	B.C.E.	08:58:23	0985724.8738811	-2015	Oct	08	21:55:07	046604	LPU	Asc.	0.9013	1.2515	0.1579	308	095	---	0.1N	135.7W	13	07	2015	B.C.E.
04722	Mar	05	2014	B.C.E.	22:33:32	0985873.4399507	-2014	Mar	06	11:29:51	046579	LNN	Dec.	-1.1390	0.7683	-0.2319	232	---	---	13.4N	26.7E	15	12	2014	B.C.E.
04723	Apr	04	2014	B.C.E.	07:52:24	0985902.8280553	-2014	Apr	04	20:48:43	046579	LNN	Dec.	-1.4756	0.1490	-0.8185	105	---	---	0.2N	116.8W	14	13	2014	B.C.E.
04724	Aug	28	2014	B.C.E.	23:51:20	0986094.4939839	-2014	Aug	29	12:47:40	046579	LNN	Asc.	-1.2432	0.5784	-0.4245	203	---	---	17.0S	3.6E	13	05	2014	B.C.E.
04725	Sep	27	2014	B.C.E.	12:46:19	0986079.0321694	-2014	Sep	28	01:42:39	046579	LNN	Asc.	1.5377	0.0573	-0.9838	070	---	---	3.8S	167.7E	12	06	2014	B.C.E.
04726	Feb	23	2013	B.C.E.	06:01:57	0986227.7513496	-2013	Feb	23	18:57:50	046555	LTU	Dec.	0.4278	2.1025	1.0442	351	209	034	16.3N	85.3W	14	11	2013	B.C.E.
04727	Aug	17	2013	B.C.E.	14:10:56	0986404.0909223	-2013	Aug	18	03:06:52	046556	LPU	Asc.	-0.5008	1.9193	0.9586	303	180	---	19.3S	148.3E	13	05	2013	B.C.E.
04728	Feb	11	2012	B.C.E.	06:58:34	0986581.7906721	-2012	Feb	11	19:54:05	046531	LTU	Dec.	-0.3038	2.3448	1.2573	370	224	077	18.8N	99.8W	14	11	2012	B.C.E.
04729	Aug	07	2012	B.C.E.	06:41:28	0986738.0847085	-2012	Aug	07	19:36:58	046531	LTU	Asc.	0.2034	2.4649	1.5043	318	204	090	21.0S	100.0W	14	05	2012	B.C.E.
04730	Jan	31	2011	B.C.E.	07:43:07	0986935.8216047	-2011	Jan	31	20:38:13	046506	LNT	Dec.	-1.0074	1.0428	-0.0229	281	---	---	20.6N	111.6E	13	11	2011	B.C.E.
04731	Jul	27	2011	B.C.E.	20:43:08	0987113.3632831	-2011	Jul	28	09:38:13	046506	LPU	Asc.	0.9612	1.0945	0.0943	267	069	---	22.0S	48.9E	15	04	2011	B.C.E.
04732	Dec	22	2011	B.C.E.	02:49:22	0987260.6176188	-2011	Dec	22	15:44:29	046506	LNN	Dec.	1.0871	0.8600	-0.1335	236	---	---	24.1N	42.0E	13	09	2011	B.C.E.
04733	Jun	17	2010	B.C.E.	14:01:59	0987438.0847085	-2010	Jun	18	02:56:39	046481	LNN	Asc.	-1.0437	0.9751	-0.0887	278	---	---	22.9S	146.8E	14	03	2010	B.C.E.
04734	Dec	11	2010	B.C.E.	17:51:50	0987615.2443264	-2010	Dec	12	06:46:31	046481	LTU	Dec.	0.3968	2.1148	1.1448	309	190	054	21.8N	91.3E	14	09	2010	B.C.E.
04735	Jun	05	2009	B.C.E.	14:35:58	0987792.1083148	-2009	Jun	06	03:30:16	046457	LTU	Dec.	-0.2887	2.3603	1.2967	366	225	082	20.0S	138.2E	13	03	2009	B.C.E.
04736	Nov	30	2009	B.C.E.	09:05:46	0987969.8790067	-2009	Nov	30	22:00:02	046457	LTU	Dec.	-0.2729	2.3532	1.3611	323	205	081	18.7N	137.8W	14	09	2009	B.C.E.
04737	May	25	2008	B.C.E.	18:43:50	0988146.2804403	-2008	May	26	07:37:43	046432	LPU	Asc.	0.4866	1.9752	0.9554	335	199	---	16.5S	76.6E	13	02	2008	B.C.E.
04738	Nov	19	2008	B.C.E.	19:55:46	0988324.3303905	-2008	Nov	20	08:49:38	046432	LPU	Dec.	-0.9992	1.0482	0.0013	271	008	---	14.9N	59.4E	15	08	2008	B.C.E.
04739	Apr	15	2007	B.C.E.	22:43:58	0988471.4471998	-2007	Apr	16	11:37:25	046407	LNN	Asc.	-1.3115	0.4260	-0.5232	169	---	---	4.4S	19.3E	14	01	2007	B.C.E.
04740	May	15	2007	B.C.E.	06:06:17	0988500.7543633	-2007	May	15	18:59:44	046407	LNN	Asc.	1.2137	0.6140	-0.3520	204	---	---	12.5S	93.3W	13	02	2007	B.C.E.
04741	Oct	10	2007	B.C.E.	04:17:24	0988648.6787513	-2007	Oct	10	17:10:51	046407	LNN	Asc.	1.3127	0.5018	-0.6021	213	---	---	1.3N	65.5W	14	07	2007	B.C.E.
04742	Apr	05	2006	B.C.E.	15:53:52	0988826.1624108	-2006	Apr	06	04:46:54	046382	LPU	Asc.	-0.5824	1.7618	0.8164	295	167	---	0.3N	123.2E	15	13	2006	B.C.E.
04743	Sep	29	2006	B.C.E.	04:06:40	0989002.6712974	-2006	Sep	29	16:59:43	046382	LPU	Dec.	0.6174	1.7657	0.6855	339	181	---	3.9S	62.0W	13	06	2006	B.C.E.
04744	Mar	25	2005	B.C.E.	07:15:46	0989180.8026169	-2005	Mar	25	20:08:22	046358	LTU	Asc.	0.1580	2.5598	1.5763	332	214	096	5.1N	105.9W	14	12	2005	B.C.E.
04745	Sep	17	2005	B.C.E.	10:06:03	0989356.9208729	-2005	Sep	17	22:58:44	046358	LTU	Dec.	-0.1119	2.6639	1.6417	343	220	098	8.9S	151.1W	13	06	2005	B.C.E.
04746	Mar	14	2004	B.C.E.	16:35:51	0989535.1915611	-2004	Mar	15	05:28:04	046333	LPU	Asc.	0.9540	1.1282	0.0871	285	070	---	9.9N	115.3E	15	12	2004	B.C.E.
04747	Sep	06	2004	B.C.E.	23:03:11	0989711.4605454	-2004	Sep	07	11:55:24	046333	LPU	Dec.	-0.7982	1.3794	0.4071	277	127	---	13.5S	15.2E	13	06	2004	B.C.E.
04748	Feb	02	2003	B.C.E.	01:59:05	0989859.5826935	-2003	Feb	02	14:50:54	046309	LNN	Asc.	-1.2113	0.6799	-0.4083	242	---	---	20.1N	25.3W	14	11	2003	B.C.E.
04749	Jul	29	2003	B.C.E.	06:22:49	0990036.7658441	-2003	Jul	29	19:14:38	046309	LNN	Asc.	1.1260	0.7752	-0.1914	223	---	---	21.6S	95.8W	14	04	2003	B.C.E.
04750	Aug	27	2003	B.C.E.	15:14:14	0990066.1348865	-2003	Aug	28	04:06:03	046309	LNN	Dec.	-1.4624	2.1551	-0.8060	104	---	---	17.6S	132.7E	13	05	2003	B.C.E.
04751	Jan	22	2002	B.C.E.	03:57:54	0990213.6652084	-2002	Jan	22	16:49:20	046285	LPU	Asc.	-0.4697	2.0236	0.9694	343	201	---	22.5N	55.7W	13	10	2002	B.C.E.
04752	Jul	18	2002	B.C.E.	19:00:20	0990391.2919008	-2002	Jul	19	07:51:43	046285	LTU	Dec.	0.4227	2.0895	1.0756	333	203	042	23.3E	74.2E	15	04	2002	B.C.E.
04753	Jan	11	2001	B.C.E.	12:53:57	0990568.9374639	-2001	Jan	12	01:44:59	046260	LTU	Asc.	0.2638	2.3744	1.3									

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar				
											Pen.	Par.	Lat.	Lon.	Day	Month	Year		
04816	Jan 12 1974 B.C.E.	20:02:25	1000431.3350135	-1974 Jan 13 08:42:23	045598	LNN	Dec.	1.1077	0.8173	-0.1664	230	---	24.8N	62.4E	13	10	1974	B.C.E.	
04817	Jul 09 1974 B.C.E.	03:21:39	1000608.6400362	-1974 Jul 09 16:01:38	045599	LNN	Asc.	-1.1976	0.6968	-0.3747	243	---	25.0S	51.8W	14	04	1974	B.C.E.	
04818	Jan 02 1973 B.C.E.	11:33:35	1000785.9816583	-1973 Jan 03 00:13:10	045575	LNU	Dec.	0.4131	2.0830	1.1169	308	188	049	24.3N	171.7W	13	10	1973	B.C.E.
04819	Jun 27 1973 B.C.E.	03:46:54	1000962.6575707	-1973 Jun 27 16:26:30	045575	LPU	Asc.	-0.4505	2.0637	0.9999	355	209	---	23.7S	58.9W	13	03	1973	B.C.E.
04820	Dec 22 1973 B.C.E.	02:44:05	1001140.6139445	-1973 Dec 22 15:23:38	045575	LTU	Dec.	-0.2680	2.3631	1.3695	325	207	082	22.8N	40.6W	14	09	1973	B.C.E.
04821	Jun 16 1972 B.C.E.	08:38:59	1001316.8604014	-1972 Jun 16 21:18:11	045550	LNU	Asc.	0.3272	2.2652	1.2502	341	213	073	21.6S	132.3W	13	03	1972	B.C.E.
04822	Dec 11 1972 B.C.E.	13:00:01	1001495.0416787	-1972 Dec 12 01:39:11	045550	LNT	Dec.	-1.0034	1.0426	-0.0082	273	---	20.5N	164.4E	14	09	1972	B.C.E.	
04823	May 07 1971 B.C.E.	13:42:43	1001642.0713346	-1971 May 08 02:21:29	045526	LNN	Asc.	-1.4476	0.1738	-0.7704	110	---	12.6S	152.4E	13	02	1971	B.C.E.	
04824	Jun 05 1971 B.C.E.	20:49:06	1001671.3674348	-1971 Jun 06 09:27:53	045526	LNN	Asc.	1.0602	0.8934	-0.0682	238	---	18.7S	45.1E	13	03	1971	B.C.E.	
04825	Oct 31 1971 B.C.E.	20:25:56	1001819.3513399	-1971 Nov 01 09:04:42	045526	LNN	Dec.	1.3238	0.4831	-0.6241	209	---	10.2N	51.3E	14	08	1971	B.C.E.	
04826	Apr 27 1970 B.C.E.	07:01:06	1001996.7924251	-1970 Apr 27 19:39:27	045502	LPU	Asc.	-0.7252	1.4998	0.5545	282	142	---	8.2S	106.0W	14	01	1970	B.C.E.
04827	Oct 20 1970 B.C.E.	20:29:13	1002173.3536185	-1970 Oct 21 09:07:36	045502	LPU	Dec.	0.6304	1.7414	0.6621	336	178	---	5.1N	51.1E	13	07	1970	B.C.E.
04828	Oct 15 1969 B.C.E.	21:59:34	1002351.4163611	-1969 Apr 16 10:37:27	045477	LTU	Asc.	0.0193	2.8157	1.8294	337	218	102	3.4S	30.7E	15	01	1969	B.C.E.
04829	Oct 09 1969 B.C.E.	03:04:38	1002527.6282181	-1969 Oct 09 15:42:37	045477	LTU	Dec.	-0.0902	2.7030	1.6823	341	199	099	0.0S	46.9W	13	07	1969	B.C.E.
04830	Apr 05 1968 B.C.E.	03:34:16	1001671.3674348	-1968 Apr 05 19:11:47	045453	LPU	Asc.	0.8199	1.3751	0.3326	308	132	---	1.5N	96.5W	14	13	1968	B.C.E.
04831	Sep 28 1968 B.C.E.	16:20:30	1002882.1809065	-1968 Sep 29 04:58:04	045453	LPU	Dec.	-0.7641	1.4431	0.4688	280	136	---	5.1S	114.9E	14	06	1968	B.C.E.
04832	Feb 23 1967 B.C.E.	16:26:39	1002300.8516882	-1967 Feb 24 05:03:46	045428	LNN	Asc.	-1.3032	0.5065	-0.5722	212	---	14.4N	118.0E	14	11	1967	B.C.E.	
04833	Aug 19 1967 B.C.E.	22:27:38	1003207.4358566	-1967 Aug 20 11:04:46	045428	LNN	Dec.	1.2135	0.6201	-0.3574	204	---	17.1S	23.7E	14	05	1967	B.C.E.	
04834	Sep 18 1967 B.C.E.	08:16:54	1003236.8450653	-1967 Sep 18 20:54:01	045428	LNN	Dec.	-1.2135	0.6201	-0.3574	127	---	9.9S	123.4W	14	06	1967	B.C.E.	
04835	Feb 12 1966 B.C.E.	19:26:24	1003384.3100000	-1966 Feb 13 08:03:09	045404	LPU	Asc.	-0.5379	1.8918	0.8508	334	192	---	18.2N	73.3E	13	11	1966	B.C.E.
04836	Aug 09 1966 B.C.E.	10:03:13	1003569.1819036	-1966 Aug 09 22:39:56	045404	LPU	Dec.	0.5299	1.8994	0.8722	329	191	---	20.3S	150.3W	14	05	1966	B.C.E.
04837	Feb 02 1965 B.C.E.	05:28:37	1003738.7282079	-1965 Feb 02 18:04:58	045379	LTU	Asc.	0.2114	2.4645	1.4757	328	210	090	21.4N	77.5W	13	11	1965	B.C.E.
04838	Jul 28 1965 B.C.E.	14:33:40	1003916.1067183	-1965 Jul 29 03:09:58	045379	LTU	Dec.	-0.2126	2.5042	1.4323	368	229	093	22.9S	141.5E	14	04	1965	B.C.E.
04839	Jan 21 1964 B.C.E.	20:39:57	1004093.3610817	-1964 Jan 22 09:15:53	045355	LPU	Asc.	0.8939	1.1985	0.2369	260	093	---	23.8N	53.8E	14	10	1964	B.C.E.
04840	Jul 17 1964 B.C.E.	14:45:06	1004270.1146535	-1964 Jul 18 03:21:03	045356	LPU	Dec.	-0.9509	1.1509	0.0764	299	067	---	24.6S	137.9E	13	04	1964	B.C.E.
04841	Dec 13 1964 B.C.E.	01:02:55	1004418.5436904	-1964 Dec 13 13:38:51	045356	LNN	Asc.	-1.1247	0.7991	-0.2104	233	---	20.7N	15.9W	15	09	1964	B.C.E.	
04842	Jun 07 1963 B.C.E.	06:59:40	1004574.7974334	-1963 Jun 07 19:35:11	045331	LNN	Dec.	1.0474	0.9349	-0.0625	253	---	19.2S	107.3W	13	03	1963	B.C.E.	
04843	Dec 02 1963 B.C.E.	09:14:21	1004772.8849659	-1963 Dec 02 21:49:51	045331	LPU	Asc.	-0.4687	0.2329	0.9640	346	201	---	19.0N	139.8W	14	09	1963	B.C.E.
04844	May 27 1962 B.C.E.	20:15:32	1004949.3691236	-1962 May 28 09:26:41	045307	LTU	Dec.	0.2521	2.3706	1.4198	317	201	085	17.3S	44.6E	14	02	1962	B.C.E.
04845	Nov 21 1962 B.C.E.	10:18:21	1005126.9294152	-1962 Nov 21 22:53:28	045307	LTU	Asc.	0.2155	2.5163	1.4100	376	229	091	16.4N	156.5W	14	08	1962	B.C.E.
04846	May 16 1961 B.C.E.	14:03:49	1005304.0859819	-1961 May 17 02:38:32	045283	LPU	Dec.	-0.4900	1.9193	0.9884	301	179	---	14.8S	146.7E	14	02	1961	B.C.E.
04847	Nov 09 1961 B.C.E.	09:33:24	1005480.8981946	-1961 Nov 09 22:08:08	045283	LPU	Asc.	0.8817	1.2864	0.1949	309	105	---	13.1N	145.7W	13	08	1961	B.C.E.
04848	Apr 06 1960 B.C.E.	20:44:10	1005629.3639998	-1960 Apr 07 09:18:28	045258	LNN	Dec.	1.3419	0.3974	-0.6057	175	---	1.2N	51.2E	15	01	1960	B.C.E.	
04849	May 06 1960 B.C.E.	05:56:54	1005658.7478479	-1960 May 06 18:31:12	045258	LNN	Dec.	-1.2659	0.5218	-0.4513	191	---	12.0S	91.2W	14	02	1960	B.C.E.	
04850	Sep 30 1960 B.C.E.	01:05:27	1005833.6230332	-1960 Sep 30 13:39:46	045258	LNN	Asc.	-1.2880	0.4960	-0.5065	188	---	4.9S	166.0E	13	07	1960	B.C.E.	
04851	Oct 29 1960 B.C.E.	14:19:12	1005835.0966678	-1960 Oct 30 02:53:31	045258	LNN	Asc.	1.5077	1.1102	-0.9267	095	---	9.5N	142.7E	12	08	1960	B.C.E.	
04852	Mar 27 1959 B.C.E.	10:31:31	1005983.6323032	-1959 Mar 27 15:44:24	045234	LPU	Dec.	0.6248	1.7404	0.6833	337	182	---	4.9N	44.5W	14	13	1959	B.C.E.
04853	Sep 19 1959 B.C.E.	15:39:01	1006160.1520934	-1959 Sep 20 04:12:55	045234	LPU	Asc.	-0.5757	1.7848	0.8183	297	170	---	8.5S	125.8E	13	06	1959	B.C.E.
04854	Mar 16 1958 B.C.E.	03:56:38	1006337.6643260	-1958 Mar 16 16:30:07	045209	LTU	Dec.	-0.1238	2.6994	1.5931	374	234	102	8.5N	55.3W	14	12	1958	B.C.E.
04855	Sep 09 1958 B.C.E.	07:34:57	1006514.8159358	-1958 Sep 09 20:08:24	045209	LTU	Asc.	0.1062	2.6505	1.6756	323	209	097	11.8S	113.1W	14	06	1958	B.C.E.
04856	Mar 04 1957 B.C.E.	05:57:37	1006691.7483435	-1957 Mar 04 18:30:43	045185	LPU	Dec.	-0.8584	1.3066	0.2599	302	118	---	11.8N	85.1W	13	12	1957	B.C.E.
04857	Aug 28 1957 B.C.E.	20:13:29	1006769.3426998	-1957 Aug 29 08:46:34	045185	LPU	Asc.	0.8467	1.3147	0.2945	290	120	---	14.8S	57.2E	15	05	1957	B.C.E.
04858	Jan 23 1956 B.C.E.	04:29:10	1007016.6869160	-1956 Jan 23 17:01:51	045161	LNN	Dec.	1.1266	0.7801	-0.1984	224	---	23.8N	63.1W	13	10	1956	B.C.E.	
04859	Feb 21 1956 B.C.E.	14:41:50	1007046.1123865	-1956 Feb 22 03:14:31	045161	LNN	Dec.	-1.5329	0.0423	-0.9517	058	---	14.7N	143.9E	13	11	1956	B.C.E.	
04860	Jul 19 1956 B.C.E.	10:09:19	1007193.9231381	-1956 Jul 19 22:42:00	045161	LNN	Asc.	-1.2668	0.5718	-0.5039	224	---	24.8S	152.8W	14	04	1956	B.C.E.	
04861	Jan 12 1955 B.C.E.	20:35:14	1007371.3439087	-1955 Jan 13 08:47:30	045136	LTU	Dec.	0.4288	2.0529	1.0892	307	187	043	24.1N	59.2E	14	10	1955	B.C.E.
04862	Jul 08 1955 B.C.E.	10:12:47	1007547.9394294	-1955 Jul 08 23:05:04	045136	LPU	Asc.	-0.5235	1.9300	0.8657	349	199	---	24.4S	159.6W	13	04	1955	B.C.E.
04863	Jan 02 1954 B.C.E.	11:24:02	1007720.9570202	-1954 Jan 02 23:55:52	045112	LTU	Dec.	-0.2584	2.3808	1.3870	326	208	083	23.6N	169.3W	14	10	1954	B.C.E.
04864	Jun 27 1954 B.C.E.	15:46:22	1007925.1751954	-1954 Jun 28 04:18:17	045113	LTU	Asc.	0.2539	2.3989	1.3856	343	217	086	23.1S	121.3E	13	03	1954	B.C.E.
04865	Dec 22 1954 B.C.E.	21:24:15	1008080.3918415	-1954 Dec 23 09:56:07	045113	LNT	Dec.	-1.0000	1.0494	-0.0027	274	---	22.2N	39.5E	15	09	1954	B.C.E.	
04866	May 17 1953 B.C.E.	21:11:33	1008272.3830225	-1953 May 18 09:43:02	045089	LNN	Asc.	-1.5164	0.0468	-0.8959	58	---	16.3S	39.4E	14	02	1953	B.C.E.	
04867	Jun 16 1953 B.C.E.	04:16:10	1008256.6778945	-1953 Jun															

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Month	Day	Hour	Minute								Month	Day	Hour	Minute	Pen.	Par.	Lat.	Lon.	Day	Month	Year			
04923	Aug	31	1930	B.C.E.	01:34:53	1016732.5658863	-1930	Aug	31	13:57:04	044533	LPU	Dec.	0.6090	1.7611	0.7204	326	179	---	14.4S	23.0W	15	06	1930	B.C.E.
04924	Feb	23	1929	B.C.E.	21:33:37	1016909.3983445	-1929	Feb	24	09:55:27	044508	LTU	Asc.	0.1320	2.6042	1.6271	327	211	096	15.7N	41.6E	13	12	1929	B.C.E.
04925	Aug	19	1929	B.C.E.	04:58:32	1017086.7073159	-1929	Aug	19	17:20:19	044508	LTU	Dec.	-0.1111	2.6958	1.6134	373	233	102	18.4S	37.8W	14	05	1929	B.C.E.
04926	Feb	12	1928	B.C.E.	13:23:15	1017264.0578136	-1928	Feb	13	01:44:39	044484	LPU	Asc.	0.8308	1.3108	0.3559	268	115	---	19.4N	164.3E	13	11	1928	B.C.E.
04927	Aug	08	1928	B.C.E.	04:49:13	1017440.7008399	-1928	Aug	08	17:10:37	044484	LPU	Dec.	-0.8317	1.3716	0.2930	318	128	---	21.7S	71.7W	13	05	1928	B.C.E.
04928	Jan	03	1927	B.C.E.	18:15:59	1017589.2611009	-1927	Jan	04	06:36:59	044460	LNN	Asc.	-1.1488	0.7556	-0.2553	229	---	---	22.8N	88.0E	15	10	1927	B.C.E.
04929	Feb	02	1927	B.C.E.	05:22:29	1017618.7239502	-1927	Feb	02	17:43:30	044460	LNN	Asc.	1.5403	0.0204	-0.9569	039	---	---	22.5N	75.8W	14	11	1927	B.C.E.
04930	Jun	28	1927	B.C.E.	21:27:10	1017765.3938667	-1927	Jun	29	09:48:10	044460	LNN	Dec.	1.1822	0.6856	-0.3081	220	---	---	22.3S	36.4E	13	03	1927	B.C.E.
04931	Jul	28	1927	B.C.E.	08:36:19	1017794.8585582	-1927	Jul	28	20:57:19	044460	LNN	Dec.	-1.5158	0.0918	-0.9382	088	---	---	24.2S	129.1W	13	04	1927	B.C.E.
04932	Dec	24	1927	B.C.E.	01:50:30	1017943.5767314	-1927	Dec	24	14:11:28	044460	LPU	Asc.	0.4839	2.0059	0.9349	347	200	---	22.9N	26.9W	14	09	1927	B.C.E.
04933	Jun	18	1926	B.C.E.	11:52:08	1018119.9945428	-1926	Jun	19	00:12:46	044436	LTU	Dec.	0.3962	2.1056	1.1562	310	190	057	21.8S	179.5E	13	03	1926	B.C.E.
04934	Dec	13	1926	B.C.E.	02:29:39	1018297.6039199	-1926	Dec	13	14:50:14	044436	LTU	Asc.	0.2041	2.5365	1.4316	376	230	093	21.9N	38.0W	14	09	1926	B.C.E.
04935	Jun	07	1925	B.C.E.	05:04:20	1018474.7113402	-1925	Jun	07	17:24:31	044412	LTU	Dec.	-0.3417	2.2028	1.2588	311	194	070	20.6S	78.9W	14	03	1925	B.C.E.
04936	Dec	01	1925	B.C.E.	02:07:12	1018651.5883381	-1925	Dec	01	14:27:27	044413	LPU	Asc.	0.8742	1.2975	0.2113	308	108	---	20.0N	33.5W	13	09	1925	B.C.E.
04937	Apr	28	1924	B.C.E.	10:54:40	1018799.9546293	-1924	Apr	28	23:14:29	044389	LNN	Dec.	1.5006	0.1085	-0.8991	094	---	---	6.9S	163.7W	14	01	1924	B.C.E.
04938	Oct	21	1924	B.C.E.	20:23:56	1018829.3499550	-1924	Oct	22	08:43:45	044389	LNN	Dec.	-1.1217	0.7897	-0.1902	231	---	---	18.7S	51.0E	15	02	1924	B.C.E.
04939	May	27	1924	B.C.E.	18:31:50	1018976.3721044	-1924	May	28	06:51:39	044389	LNN	Asc.	-1.2925	0.4869	-0.5139	186	---	---	4.1N	81.2E	13	07	1924	B.C.E.
04940	Nov	20	1924	B.C.E.	07:39:51	1019005.8193399	-1924	Nov	20	19:59:40	044389	LNN	Asc.	1.4993	0.1227	-0.9084	100	---	---	17.4N	117.5W	12	08	1924	B.C.E.
04941	Apr	17	1923	B.C.E.	16:34:01	1019154.1902863	-1923	Apr	18	04:53:25	044365	LPU	Dec.	0.7859	1.4452	0.3874	320	144	---	3.5S	112.3E	15	01	1923	B.C.E.
04942	Oct	11	1923	B.C.E.	09:14:52	1019330.8853248	-1923	Oct	11	21:34:18	044365	LPU	Asc.	-0.5961	1.7490	0.7792	295	167	---	0.4N	139.4W	13	07	1923	B.C.E.
04943	Apr	06	1922	B.C.E.	17:15:19	1019508.2189734	-1922	Apr	07	05:34:21	044340	LTU	Dec.	0.0298	2.8385	1.7689	374	236	106	0.3N	102.9E	14	01	1922	B.C.E.
04944	Oct	01	1922	B.C.E.	00:47:05	1019685.3266984	-1922	Oct	01	13:06:03	044340	LTU	Asc.	0.0744	2.7135	1.7295	326	211	098	3.4S	12.1W	14	07	1922	B.C.E.
04945	Mar	25	1921	B.C.E.	20:11:42	1019862.3414552	-1921	Mar	26	08:30:19	044316	LPU	Dec.	-0.7249	1.5453	0.5108	316	158	---	4.0N	59.6E	13	13	1921	B.C.E.
04946	Sep	19	1921	B.C.E.	12:30:14	1020040.0209983	-1921	Sep	20	00:48:49	044316	LPU	Asc.	0.8041	1.3993	0.3663	299	134	---	7.1S	172.3E	14	06	1921	B.C.E.
04947	Feb	13	1920	B.C.E.	20:57:33	1020187.3732993	-1920	Feb	14	09:15:45	044292	LNN	Dec.	1.1869	0.6642	-0.3038	208	---	---	19.3N	51.1E	14	11	1920	B.C.E.
04948	Mar	15	1920	B.C.E.	06:05:20	1020216.7537003	-1920	Mar	15	18:23:31	044292	LNN	Dec.	-1.4211	0.2414	-0.7404	134	---	---	7.4N	88.1W	13	12	1920	B.C.E.
04949	Aug	10	1920	B.C.E.	10:11:11	1020364.5077690	-1920	Aug	10	12:29:22	044292	LNN	Asc.	-1.3826	0.3638	-0.7206	183	---	---	21.7S	1.8W	14	05	1920	B.C.E.
04950	Sep	08	1920	B.C.E.	17:13:14	1020394.2175275	-1920	Sep	09	05:31:27	044292	LNN	Asc.	1.5636	0.0300	-1.0513	053	---	---	10.6S	101.7E	15	06	1920	B.C.E.
04951	Feb	03	1919	B.C.E.	13:13:16	1020542.0508760	-1919	Feb	04	01:31:03	044268	LPU	Dec.	0.4816	1.9534	0.9947	303	181	---	21.2N	166.5E	14	11	1919	B.C.E.
04952	Jul	30	1919	B.C.E.	00:30:24	1020718.5211124	-1919	Jul	30	12:48:13	044268	LPU	Asc.	-0.6500	1.6987	0.6326	336	176	---	23.1S	7.4W	13	04	1919	B.C.E.
04953	Jan	24	1918	B.C.E.	04:19:14	1020896.6800255	-1918	Jan	24	16:36:36	044244	LTU	Dec.	-0.2211	2.4491	1.4556	329	211	089	22.4N	60.9W	14	10	1918	B.C.E.
04954	Jul	19	1918	B.C.E.	06:23:36	1021072.7663875	-1918	Jul	19	18:41:02	044244	LTU	Asc.	0.1223	2.6393	1.6280	344	222	099	23.5S	96.6W	13	04	1918	B.C.E.
04955	Jan	13	1917	B.C.E.	13:48:43	1021251.0755012	-1917	Jan	14	02:05:43	044220	LPU	Dec.	-0.9761	1.0937	0.0407	280	048	---	22.8N	155.6E	14	10	1917	B.C.E.
04956	Jul	07	1917	B.C.E.	19:26:31	1021427.3100825	-1917	Jul	08	07:43:32	044220	LPU	Asc.	0.8514	1.2755	0.3157	270	110	---	23.0S	66.8E	14	04	1917	B.C.E.
04957	Dec	02	1917	B.C.E.	20:49:25	1021575.6676529	-1917	Dec	03	09:06:25	044220	LNN	Dec.	1.3309	0.4694	-0.6362	206	---	---	20.9N	46.1E	14	09	1917	B.C.E.
04958	May	29	1916	B.C.E.	05:23:14	1021752.7244705	-1916	May	29	17:39:50	044196	LPU	Asc.	-0.9513	1.0870	0.1373	253	063	---	19.0S	83.7E	14	02	1916	B.C.E.
04959	Nov	21	1916	B.C.E.	21:34:54	1021929.3992343	-1916	Nov	22	09:51:31	044196	LPU	Dec.	0.6282	1.7423	0.6694	333	177	---	17.2N	34.3W	13	08	1916	B.C.E.
04960	May	18	1915	B.C.E.	19:25:52	1022107.3096327	-1915	May	19	07:42:02	044172	LTU	Asc.	-0.2136	2.4637	1.4686	338	217	091	15.2S	66.2E	15	02	1915	B.C.E.
04961	Nov	11	1915	B.C.E.	05:15:06	1022283.7188165	-1915	Nov	11	17:31:21	044173	LTU	Dec.	-0.0879	2.7043	1.6893	337	217	098	12.9N	80.8W	13	08	1915	B.C.E.
04962	Oct	08	1914	B.C.E.	02:40:26	1022461.6114066	-1914	Oct	08	14:56:14	044149	LPU	Asc.	0.5824	1.8134	0.7658	339	189	---	11.0S	41.5W	14	02	1914	B.C.E.
04963	Mar	31	1914	B.C.E.	19:01:38	1022638.2927977	-1914	Mar	31	07:17:27	044149	LPU	Dec.	-0.7495	1.4704	0.4951	281	139	---	8.3N	72.9E	14	08	1914	B.C.E.
04964	Mar	27	1913	B.C.E.	13:05:52	1022786.0457383	-1913	Mar	28	01:21:17	044125	LNN	Asc.	-1.4895	0.1577	-0.9070	121	---	---	2.6N	165.8E	13	13	1913	B.C.E.
04965	Apr	26	1913	B.C.E.	03:59:16	1022815.6661543	-1913	Apr	26	16:14:40	044125	LNN	Asc.	1.3563	0.4040	-0.6645	191	---	---	6.3S	59.9W	14	01	1913	B.C.E.
04966	Sep	20	1913	B.C.E.	23:31:35	1022963.9402686	-1913	Sep	21	11:47:00	044125	LNN	Dec.	-1.2936	0.4815	-0.5125	184	---	---	5.9S	6.9E	14	06	1913	B.C.E.
04967	Oct	20	1913	B.C.E.	10:39:57	1022992.4444079	-1913	Oct	20	22:55:21	044125	LNN	Dec.	-1.4044	0.2706	-0.7084	138	---	---	3.5N					

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar			
	Month	Day	Time (UT)	Julian Date (UT)	Date	Time (UT)	Delta T (seconds)	Pen. Par.	Phase (minutes)						Lat.	Lon.	Day	Month	Year	Day	Month	Year
05030	Nov	12	1888 B.C.E.	12:15:27	1032147.0107274	-1888	Nov 13	00:20:54	043527	LNN	Asc.	-1.2855	0.4978	-0.4993	186	---	12.4N	174.6E	13	08	1888 B.C.E.	
05031	Dec	12	1888 B.C.E.	00:59:50	1032176.5415489	-1888	Dec 12	13:05:17	043527	LNN	Asc.	1.4885	0.1383	-0.8845	105	---	23.1N	16.0W	13	09	1888 B.C.E.	
05032	May	09	1887 B.C.E.	05:35:05	1032324.7326988	-1887	May 09	17:40:08	043503	LPU	Dec.	0.9611	1.1247	0.0648	294	062	11.2S	85.0W	14	02	1887 B.C.E.	
05033	Nov	02	1887 B.C.E.	03:09:57	1032501.6319112	-1887	Nov 02	15:15:00	043503	LPU	Dec.	-0.6012	1.7406	0.7689	295	166	9.2N	49.1W	14	08	1887 B.C.E.	
05034	Apr	28	1886 B.C.E.	06:19:54	1032678.7660973	-1886	Apr 28	18:20:04	043479	LTU	Dec.	0.1996	2.5240	1.4601	369	231	095	7.9S	94.4W	14	01	1886 B.C.E.
05035	Oct	22	1886 B.C.E.	18:20:46	1032856.2644265	-1886	Oct 23	06:25:23	043479	LTU	Dec.	0.0622	2.7399	1.7479	328	213	098	5.6N	83.2E	14	07	1886 B.C.E.
05036	Apr	16	1885 B.C.E.	10:07:01	1033032.9215358	-1885	Apr 16	22:11:17	043455	LPU	Dec.	-0.5711	1.8220	0.7985	329	187	---	4.4S	151.5W	13	01	1885 B.C.E.
05037	Oct	11	1885 B.C.E.	05:12:28	1033210.7169890	-1885	Oct 11	17:16:42	043455	LPU	Dec.	0.7853	1.4395	0.3952	304	139	---	1.8N	79.5W	14	07	1885 B.C.E.
05038	Mar	07	1884 B.C.E.	12:55:18	1033358.0384048	-1884	Mar 08	00:59:11	043433	LNN	Dec.	1.2746	0.4983	-0.4599	182	---	12.5N	171.2E	13	12	1884 B.C.E.	
05039	Apr	05	1884 B.C.E.	21:06:06	1033387.3792359	-1884	Apr 06	09:09:59	043433	LNN	Dec.	-1.2869	0.4822	-0.4890	184	---	0.9S	44.6E	13	01	1884 B.C.E.	
05040	Aug	31	1884 B.C.E.	14:48:12	1033535.1168084	-1884	Sep 01	02:52:06	043433	LNN	Asc.	-1.4685	0.2102	-0.8823	141	---	15.8S	139.4E	13	06	1884 B.C.E.	
05041	Sep	30	1884 B.C.E.	08:52:51	1033564.8700374	-1884	Sep 30	20:56:46	043433	LNN	Asc.	1.5261	1.1040	-0.9873	099	---	2.2S	134.3W	14	07	1884 B.C.E.	
05042	Feb	25	1883 B.C.E.	05:37:00	1033712.7340326	-1883	Feb 25	17:40:29	043409	LPU	Dec.	0.5629	1.0240	0.8479	297	171	---	15.4N	79.1W	14	12	1883 B.C.E.
05043	Aug	20	1883 B.C.E.	15:09:20	1033889.1314831	-1883	Aug 21	03:12:50	043409	LPU	Dec.	-0.7452	1.5250	0.4569	324	153	---	18.6S	133.8E	15	05	1883 B.C.E.
05044	Feb	14	1882 B.C.E.	20:35:50	1033466.3582177	-1882	Feb 15	08:38:53	043385	LTU	Dec.	-0.1545	2.5711	1.5780	333	215	095	17.8N	56.0E	13	11	1882 B.C.E.
05045	Aug	09	1882 B.C.E.	21:38:18	1034243.4016001	-1882	Aug 10	09:41:25	043385	LTU	Dec.	0.0180	2.8304	1.8198	343	222	102	20.6S	36.0E	13	05	1882 B.C.E.
05046	Feb	04	1881 B.C.E.	05:34:21	1034421.7321870	-1881	Feb 04	17:37:01	043361	LPU	Dec.	-0.9241	1.1890	0.1363	291	087	---	19.8N	79.2W	14	11	1881 B.C.E.
05047	Jul	29	1881 B.C.E.	11:05:51	1034597.9623927	-1881	Jul 29	23:08:32	043361	LPU	Dec.	0.7376	1.4850	0.5238	283	141	---	21.8S	166.6W	13	04	1881 B.C.E.
05048	Dec	24	1881 B.C.E.	12:51:16	1034746.0356053	-1881	Dec 25	00:53:57	043361	LNN	Dec.	1.3466	0.4379	-0.6625	200	---	24.6N	167.9E	13	09	1881 B.C.E.	
05049	Jun	19	1880 B.C.E.	20:20:23	1034923.3474939	-1880	Jun 19	08:22:40	043337	LNN	Asc.	-1.0972	0.8229	-0.1336	228	---	23.6S	52.4E	15	03	1880 B.C.E.	
05050	Jul	19	1880 B.C.E.	03:50:45	1034952.6602438	-1880	Jul 19	15:53:02	043337	LNN	Asc.	1.4296	0.2095	-0.7402	120	---	22.2S	58.6W	14	04	1880 B.C.E.	
05051	Dec	13	1880 B.C.E.	14:19:45	1035100.0970450	-1880	Dec 14	02:22:03	043337	LPU	Dec.	0.6297	1.7351	0.6706	330	176	---	22.5N	144.5E	12	09	1880 B.C.E.
05052	Jun	09	1879 B.C.E.	09:33:11	1035277.8980400	-1879	Jun 09	21:35:02	043313	LTU	Dec.	-0.3720	2.1774	1.1735	335	208	062	21.0N	146.1W	14	03	1879 B.C.E.
05053	Dec	02	1879 B.C.E.	22:51:00	1035454.4520778	-1879	Dec 03	10:52:55	043313	LTU	Dec.	-0.0902	2.6968	1.6884	335	216	098	19.6N	15.9E	13	09	1879 B.C.E.
05054	May	29	1878 B.C.E.	15:48:04	1035632.5837979	-1878	May 30	03:49:31	043289	LPU	Dec.	0.4134	2.1264	1.0732	355	212	043	17.8S	120.4E	14	02	1878 B.C.E.
05055	Nov	22	1878 B.C.E.	13:02:35	1035809.0434648	-1878	Nov 23	01:04:04	043289	LPU	Dec.	-0.7507	1.4674	0.4935	280	138	---	16.0N	162.6E	13	08	1878 B.C.E.
05056	May	17	1877 B.C.E.	16:45:15	1035986.1980851	-1877	May 18	04:46:20	043266	LNN	Asc.	1.1822	0.7224	-0.3442	247	---	13.9S	106.7E	14	02	1877 B.C.E.	
05057	Oct	12	1877 B.C.E.	16:46:59	1036134.1992918	-1877	Oct 13	04:48:05	043266	LNN	Dec.	1.3173	0.4429	-0.5609	179	---	3.0N	106.7E	15	07	1877 B.C.E.	
05058	Nov	11	1877 B.C.E.	04:33:46	1036163.6911227	-1877	Nov 11	16:34:52	043266	LNN	Dec.	-1.4104	0.2619	-0.7218	136	---	11.9N	70.1W	14	08	1877 B.C.E.	
05059	Apr	07	1876 B.C.E.	08:04:08	1036310.8362064	-1876	Apr 07	20:04:51	043242	LPU	Dec.	-0.8222	1.3539	0.3448	294	130	---	1.1S	119.7W	13	01	1876 B.C.E.
05060	Oct	02	1876 B.C.E.	01:47:00	1036488.5743012	-1876	Oct 02	13:47:40	043242	LPU	Dec.	0.6743	1.6507	0.5915	254	167	---	2.1S	27.4W	14	07	1876 B.C.E.
05061	Mar	27	1875 B.C.E.	20:47:22	1036665.3662252	-1875	Mar 28	08:47:42	043218	LTU	Dec.	-0.0362	2.7722	1.8108	324	210	100	3.8N	50.8E	14	13	1875 B.C.E.
05062	Sep	21	1875 B.C.E.	03:41:41	1036842.6539491	-1875	Sep 21	15:41:57	043218	LTU	Dec.	-0.0171	2.8753	1.7788	377	235	105	7.2S	55.3W	14	06	1875 B.C.E.
05063	Mar	17	1874 B.C.E.	13:26:55	1037020.0603583	-1874	Mar 18	01:26:50	043195	LPU	Dec.	0.6869	1.5707	0.6240	284	149	---	8.5N	162.2E	13	12	1874 B.C.E.
05064	Sep	10	1874 B.C.E.	03:11:33	1037196.6330155	-1874	Sep 10	15:11:29	043195	LPU	Dec.	-0.7108	1.5960	0.5122	333	162	---	12.0S	47.1W	13	06	1874 B.C.E.
05065	Feb	05	1873 B.C.E.	19:00:56	1037345.2923163	-1873	Feb 06	07:00:27	043171	LNN	Asc.	-1.2312	0.6048	-0.4066	210	---	19.1N	79.4E	15	11	1873 B.C.E.	
05066	Mar	06	1873 B.C.E.	05:26:48	1037374.7269466	-1873	Mar 06	17:26:19	043171	LNN	Asc.	1.4315	0.2193	-0.7565	127	---	13.0N	76.8W	14	12	1873 B.C.E.	
05067	Jul	30	1873 B.C.E.	20:05:46	1037521.3373422	-1873	Jul 31	08:05:17	043171	LNN	Dec.	1.3429	0.3898	-0.6019	169	---	21.0S	58.6E	13	04	1873 B.C.E.	
05068	Aug	29	1873 B.C.E.	07:43:43	1037550.8220305	-1873	Aug 29	19:43:15	043171	LNN	Dec.	-1.3776	0.3454	-0.6844	166	---	16.5S	114.8W	13	05	1873 B.C.E.	
05069	Jan	25	1872 B.C.E.	01:44:54	1037699.5728509	-1872	Jan 25	13:44:01	043148	LPU	Dec.	-0.5497	1.8849	0.8147	344	193	---	21.8N	22.2W	15	10	1872 B.C.E.
05070	Jul	20	1872 B.C.E.	11:01:14	1037875.9591875	-1872	Jul 20	23:00:22	043148	LPU	Dec.	0.5824	1.7651	0.8134	296	168	---	22.9S	165.8W	13	04	1872 B.C.E.
05071	Jan	14	1871 B.C.E.	02:04:38	1038053.5865512	-1871	Jan 14	14:03:22	043124	LTU	Dec.	0.1541	2.6244	1.5271	377	233	099	23.7N	28.1W	14	10	1871 B.C.E.
05072	Jul	10	1871 B.C.E.	03:55:16	1038230.6633768	-1871	Jul 10	15:53:59	043124	LTU	Dec.	-0.1397	2.5784	1.6246	320	206	095	24.1S	60.1W	14	04	1871 B.C.E.
05073	Jan	03	1870 B.C.E.	02:36:32	1038407.6087046	-1870	Jan 03	14:34:53	043100	LPU	Dec.	0.8414	1.3507	0.2783	309	122	---	24.7N	37.5W	13	10	1870 B.C.E.
05074	Jun	29	1870 B.C.E.	18:08:00	1038585.2555555	-1870	Jun 30	06:06:20	043100	LPU	Dec.	-0.9149	1.1767	0.1820	275	094	---	24.4S	85.9E	15	03	1870 B.C.E.
05075	Nov	23	1870 B.C.E.	21:08:06	1038732.3806243	-1870	Nov 24	09:06:26	043100	LNN	Asc.	-1.2824	0.5023	-0.4923	187	---	16.0N	41.6E	13	08	1870 B.C.E.	
05076	Dec	23	1870 B.C.E.	09:34:25	1038761.8988965	-1870	Dec 23	21:32:46	043100	LNN	Asc.	1.4780	0.1551	-0.8628	110	---	24.7N	143.4W	13	09	1870 B.C.E.	
05077	May	19	1869 B.C.E.	12:02:32	1038910.0017558	-1869	May 20	00:00:27	043076	LNN	Dec.	1.0497	0.9630	-0.0985	277	---	14.6S	177.5E</				

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar					
	Year	Month	Day	Time (UT)	(JD)	(TD)	(Time)		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	(minutes)	Lat.	Lon.	Day	Month	Year
05137	Aug	20	1845	B. C. E.	03:19:41	1047768.6386730	-1845	Aug 20 15:08:12	042510	LPU	Asc.	0.6505	1.6463	0.6824	292	158	---	17.2S	49.3W	13 05 1845	B. C. E.
05138	Jan	15	1844	B. C. E.	04:28:06	1047916.6861860	-1844	Jan 15 16:16:12	042486	LNN	Dec.	1.3832	0.3667	-0.7258	183	---	---	24.7N	63.6W	13 10 1844	B. C. E.
05139	Jul	11	1844	B. C. E.	11:30:09	1048093.9792736	-1844	Jul 11 23:18:17	042487	LNN	Asc.	-1.2301	0.5837	-0.3818	198	---	---	25.1S	173.5W	14 04 1844	B. C. E.
05140	Aug	09	1844	B. C. E.	19:49:51	1048123.3262815	-1844	Aug 09 07:37:58	042487	LNN	Asc.	1.3374	0.3827	-0.5749	160	---	---	19.2S	62.7E	14 05 1844	B. C. E.
05141	Jan	04	1843	B. C. E.	06:49:16	1048270.7842153	-1843	Jan 04 18:37:02	042464	LPU	Dec.	0.6471	1.6977	0.6440	326	173	---	24.5N	100.3W	13 10 1843	B. C. E.
05142	Jun	30	1843	B. C. E.	23:46:14	1048448.4904355	-1843	Jun 01 11:33:56	042464	LPU	Dec.	-0.5214	1.9087	0.8940	328	192	---	24.1S	1.6E	15 03 1843	B. C. E.
05143	Dec	24	1843	B. C. E.	16:17:05	1048625.1785245	-1843	Dec 25 04:04:50	042464	LTU	Dec.	-0.0818	2.7077	-1.7082	332	215	098	23.3N	116.4E	13 09 1843	B. C. E.
05144	Jun	20	1842	B. C. E.	04:56:35	1048802.7059588	-1842	Jun 20 16:43:54	042440	LTU	Dec.	0.2473	2.4348	1.3743	365	227	089	22.3S	76.6W	14 03 1842	B. C. E.
05145	Dec	14	1842	B. C. E.	06:59:13	1048979.7911230	-1842	Dec 14 18:46:34	042440	LPU	Dec.	-0.7482	1.4704	0.4998	280	138	---	21.3N	105.2W	13 09 1842	B. C. E.
05146	Jun	08	1841	B. C. E.	05:34:41	1049156.7324190	-1841	Jun 08 17:21:38	042417	LNT	Asc.	1.0078	1.0424	-0.0239	287	---	---	19.7S	86.3W	14 03 1841	B. C. E.
05147	Nov	03	1841	B. C. E.	10:17:52	1049304.9290740	-1841	Nov 03 22:04:49	042417	LNN	Dec.	1.3264	0.4303	-0.5815	177	---	---	11.8N	156.9W	14 08 1841	B. C. E.
05148	Dec	02	1841	B. C. E.	22:26:40	1049334.4351856	-1841	Dec 03 10:13:37	042417	LNN	Dec.	-1.4182	0.2490	-0.7375	133	---	---	18.4N	22.2E	14 09 1841	B. C. E.
05149	Apr	28	1840	B. C. E.	22:14:02	1049481.4264091	-1840	Apr 29 10:00:36	042393	LPU	Asc.	-0.9654	1.0862	0.0872	269	067	---	9.5S	25.5E	13 01 1840	B. C. E.
05150	Oct	23	1840	B. C. E.	18:23:36	1049659.2663845	-1840	Oct 24 06:10:07	042393	LPU	Dec.	0.6901	1.6266	0.5576	326	164	---	6.9N	82.2E	15 07 1840	B. C. E.
05151	Apr	18	1839	B. C. E.	11:51:20	1049835.9939851	-1839	Apr 18 23:37:32	042370	LPU	Asc.	-0.1724	2.5181	1.5648	320	206	094	4.8S	177.6E	13 01 1839	B. C. E.
05152	Oct	12	1839	B. C. E.	19:29:05	1050013.3118628	-1839	Oct 13 07:15:16	042370	LTU	Dec.	0.0122	2.8879	1.7845	379	235	105	1.7N	66.6E	14 07 1839	B. C. E.
05153	Apr	08	1838	B. C. E.	04:54:49	1050190.7047311	-1838	Apr 08 16:40:35	042346	LPU	Asc.	0.5629	1.7967	0.8532	296	170	---	0.0S	72.0W	14 01 1838	B. C. E.
05154	Oct	01	1838	B. C. E.	18:56:21	1050367.2891324	-1838	Oct 02 06:42:08	042346	LPU	Dec.	-0.6683	1.6751	0.5894	336	171	---	3.5S	75.6E	14 07 1838	B. C. E.
05155	Feb	27	1837	B. C. E.	10:39:39	1050515.9441977	-1837	Feb 27 22:25:00	042322	LNN	Asc.	-1.3227	0.4369	-0.5746	183	---	---	12.9N	155.4W	14 12 1837	B. C. E.
05156	Mar	27	1837	B. C. E.	20:43:54	1050545.3638241	-1837	Mar 28 08:29:17	042322	LNN	Asc.	1.3265	0.4123	-0.5642	172	---	---	4.8N	52.1E	15 13 1837	B. C. E.
05157	Aug	21	1837	B. C. E.	11:59:07	1050691.9993849	-1837	Aug 21 23:44:29	042322	LNN	Dec.	1.4150	0.2576	-0.7342	138	---	---	16.1S	179.2W	13 05 1837	B. C. E.
05158	Sep	20	1837	B. C. E.	00:01:19	1050721.5009176	-1837	Sep 20 11:46:41	042322	LNN	Dec.	-1.3235	0.4444	-0.5850	185	---	---	8.5S	0.2E	13 06 1837	B. C. E.
05159	Feb	15	1836	B. C. E.	16:49:11	1050870.2008271	-1836	Feb 16 04:34:09	042299	LPU	Asc.	-0.6309	1.7348	0.6667	338	180	---	17.0N	112.6E	15 11 1836	B. C. E.
05160	Aug	11	1836	B. C. E.	03:04:12	1051046.6279189	-1836	Aug 11 14:49:11	042299	LPU	Dec.	0.6766	1.5941	0.6386	287	152	---	19.5S	45.5W	13 05 1836	B. C. E.
05161	Feb	04	1835	B. C. E.	17:05:11	1051224.2119383	-1835	Feb 05 04:49:47	042275	LPU	Asc.	0.0864	2.7447	1.6550	377	235	104	20.4N	108.5E	14 11 1835	B. C. E.
05162	Jul	31	1835	B. C. E.	19:36:17	1051401.3168609	-1835	Aug 01 07:20:49	042275	LTU	Dec.	-0.0305	2.7833	1.8205	323	209	099	22.2S	66.1E	15 04 1835	B. C. E.
05163	Jan	24	1834	B. C. E.	18:25:37	1051578.2667874	-1834	Jan 25 06:09:50	042252	LPU	Asc.	0.7914	1.4365	0.3758	313	139	---	23.1N	87.7E	13 10 1834	B. C. E.
05164	Jul	21	1834	B. C. E.	08:54:15	1051755.8710083	-1834	Jul 21 20:38:26	042252	LPU	Dec.	-0.7948	1.4032	0.3963	295	137	---	24.2S	134.1W	14 04 1834	B. C. E.
05165	Dec	15	1834	B. C. E.	14:51:10	1051903.1188609	-1834	Dec 16 02:35:23	042253	LNN	Asc.	-1.2799	0.5035	-0.4844	186	---	---	21.0N	137.2E	14 09 1834	B. C. E.
05166	Jan	14	1833	B. C. E.	02:29:43	1051932.6309661	-1833	Jan 14 13:32:22	042229	LNN	Asc.	1.4437	0.2124	-0.7942	128	---	---	25.0N	34.5W	13 10 1833	B. C. E.
05167	Jun	10	1833	B. C. E.	00:56:10	1052080.5390073	-1833	Jun 10 22:39:59	042229	LNN	Dec.	1.2249	0.6438	-0.4222	235	---	---	19.9S	16.4W	14 03 1833	B. C. E.
05168	Dec	04	1833	B. C. E.	06:11:30	1052257.759875	-1833	Dec 04 17:55:19	042229	LPU	Asc.	-0.6023	1.7833	0.7671	295	166	---	19.6N	93.9W	14 09 1833	B. C. E.
05169	May	30	1832	B. C. E.	01:36:59	1052434.5673541	-1832	May 30 13:20:26	042206	LPU	Dec.	0.4627	2.0367	0.9783	354	207	---	18.1S	26.7E	14 02 1832	B. C. E.
05170	Nov	23	1832	B. C. E.	20:59:08	1052612.3743964	-1832	Nov 24 08:42:32	042206	LTU	Asc.	0.0633	2.7420	1.7419	331	215	099	17.4N	43.3E	14 08 1832	B. C. E.
05171	May	19	1831	B. C. E.	06:49:47	1052788.7845732	-1831	May 19 18:32:51	042182	LPU	Dec.	-0.3236	2.2698	1.2590	341	213	074	15.7S	104.9W	13 02 1831	B. C. E.
05172	Nov	13	1831	B. C. E.	06:42:42	1052966.7793751	-1831	Nov 13 18:25:19	042182	LPU	Asc.	0.7851	1.4461	0.3893	309	139	---	14.6N	103.0W	14 08 1831	B. C. E.
05173	Apr	09	1830	B. C. E.	12:03:57	1053114.0027446	-1830	Apr 09 23:46:36	042159	LNN	Dec.	1.4479	0.1743	-0.7722	110	---	---	0.2N	178.9W	13 01 1830	B. C. E.
05174	May	08	1830	B. C. E.	19:14:43	1053143.3018866	-1830	May 09 06:57:22	042159	LNN	Dec.	-1.0610	0.8909	-0.0686	237	---	---	12.9S	69.3E	14 02 1830	B. C. E.
05175	Oct	03	1830	B. C. E.	13:53:50	1053291.0790469	-1830	Oct 04 01:36:29	042159	LNN	Asc.	-1.5398	0.0842	-1.0178	090	---	---	3.4S	151.3E	13 07 1830	B. C. E.
05176	Nov	02	1830	B. C. E.	09:06:57	1053320.8798272	-1830	Nov 02 20:49:36	042159	LNN	Asc.	1.5072	0.1436	-0.9577	117	---	---	11.1N	139.4W	14 08 1830	B. C. E.
05177	Apr	29	1829	B. C. E.	05:11:22	1053468.7162253	-1829	Apr 29 16:53:36	042135	LPU	Asc.	0.7347	1.4849	0.5347	281	140	---	3.6N	75.0W	14 13 1829	B. C. E.
05178	Sep	21	1829	B. C. E.	14:27:45	1053645.1026080	-1829	Sep 22 02:10:01	042135	LPU	Asc.	-0.8283	1.3737	0.3035	311	127	---	7.3S	143.5E	13 06 1829	B. C. E.
05179	Mar	18	1828	B. C. E.	19:46:59	1053823.3242904	-1828	Mar 19 07:28:49	042112	LPU	Dec.	0.0012	2.8527	1.8589	338	220	102	7.0N	66.8E	15 12 1828	B. C. E.
05180	Sep	10	1828	B. C. E.	21:47:11	1053999.4077676	-1828	Sep 11 09:29:06	042112	LTU	Asc.	-0.0822	2.7125	1.7020	339	219	099	10.9S	33.8E	13 06 1828	B. C. E.
05181	Mar	08	1827	B. C. E.	03:50:47	1054177.6602701	-1827	Mar 08 15:32:15	042088	LPU	Dec.	-0.7846	1.4444	0.3928	315	143	---	10.4N	53.7W	15 12 1827	B. C. E.
05182	Aug	31	1827	B. C. E.	11:39:59	1054353.9860941	-1827	Aug 31 23:21:27	042088	LPU	Asc.	0.6175	1.7075	0.7421	294	164	---	14.0S	174.4W	13 06 1827	B. C. E.
05183	Jan	26	1826	B. C. E.	12:04:22	1054502.0030349	-1826	Jan 26 23:45:28	042065	LNN	Dec.	1.4111	0.3131	-0.7747	170	---	---	23.4N	176.6W	13 11 1826	B. C. E.
05184	Feb	25	1826	B. C. E.	05:13:07	1054531.7174402	-1826	Feb 25 16:54:11	042065	LNN	Dec.	-1.5389	0.0762	-1.0069							

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
05244	Nov 14 1804 B.C.E.	11:09:40	1062829.9650469	-1804 Nov 14 22:42:11	041552	LPU	Dec.	0.6951	1.6209	0.5450	328	164	15.1N	169.7W	14 08 1804 B.C.E.	
05245	Nov 14 1803 B.C.E.	02:46:33	1063006.6156587	-1803 May 10 14:18:43	041529	LTU	Asc.	-0.3184	2.2474	1.2996	314	197	12.8S	43.4W	13 02 1803 B.C.E.	
05246	Nov 03 1803 B.C.E.	11:37:21	1063183.9842687	-1803 Nov 03 23:09:31	041530	LTU	Dec.	0.0237	2.8687	1.7615	379	235	10.5N	176.4W	13 08 1803 B.C.E.	
05247	Apr 29 1802 B.C.E.	20:02:34	1063361.3351208	-1802 Apr 30 07:34:21	041507	LTU	Asc.	0.4226	2.0537	1.1110	306	186	8.5S	58.7E	14 01 1802 B.C.E.	
05248	Oct 23 1802 B.C.E.	11:13:42	1063537.9678446	-1802 Oct 23 22:45:30	041507	LPU	Dec.	-0.6495	1.7093	0.6240	337	175	5.5N	169.9W	13 07 1802 B.C.E.	
05249	Mar 20 1801 B.C.E.	01:38:26	1063686.5683617	-1801 Mar 20 13:09:49	041483	LNN	Asc.	-1.4423	2.0180	-0.7947	133	---	5.1N	21.7W	15 12 1801 B.C.E.	
05250	Apr 18 1801 B.C.E.	11:31:44	1063715.9803649	-1801 Apr 18 23:03:07	041483	LNN	Asc.	-1.2004	0.6450	-0.3343	212	---	0.4N	105.7E	14 01 1801 B.C.E.	
05251	Sep 12 1801 B.C.E.	04:31:42	1063862.6886769	-1801 Sep 12 16:03:04	041483	LNN	Dec.	1.4590	0.1772	-0.8152	115	---	8.8S	67.9W	13 06 1801 B.C.E.	
05252	Oct 11 1801 B.C.E.	16:54:16	1063892.2043504	-1801 Oct 12 04:25:39	041483	LNN	Dec.	-1.2948	0.4963	-0.5315	194	---	0.4N	105.7E	13 07 1801 B.C.E.	
05253	Mar 09 1800 B.C.E.	07:10:40	1064040.7990760	-1800 Mar 09 18:41:39	041460	LPU	Asc.	-0.7440	1.5262	0.4602	326	155	9.8N	103.6W	14 12 1800 B.C.E.	
05254	Sep 01 1800 B.C.E.	19:42:16	1064217.3210206	-1800 Sep 02 07:13:16	041460	LPU	Dec.	0.7425	1.4757	0.5153	280	139	13.2S	65.0E	14 06 1800 B.C.E.	
05255	Feb 26 1799 B.C.E.	07:28:20	1064394.8113478	-1799 Feb 26 18:58:59	041437	LTU	Asc.	-0.0123	2.8764	1.7953	376	236	106	14.3N	107.3W	14 12 1799 B.C.E.
05256	Aug 22 1799 B.C.E.	11:45:47	1064571.9901295	-1799 Aug 22 23:16:23	041437	LTU	Dec.	0.0525	2.7481	1.7750	325	211	099	17.2S	175.6W	14 05 1799 B.C.E.
05257	Feb 15 1798 B.C.E.	09:45:29	1064748.9065857	-1798 Feb 15 21:15:44	041414	LPU	Asc.	0.7143	1.5713	0.5237	320	160	18.3N	141.2W	13 11 1798 B.C.E.	
05258	Aug 12 1798 B.C.E.	00:04:32	1064926.5031451	-1798 Aug 12 11:34:44	041414	LPU	Dec.	-0.6982	1.5870	0.5669	310	161	20.7S	0.4W	15 05 1798 B.C.E.	
05259	Jan 06 1797 B.C.E.	08:17:50	1065073.8457202	-1797 Jan 06 19:47:40	041390	LNN	Asc.	-1.2930	0.4752	-0.5042	180	---	22.6N	122.2W	13 10 1797 B.C.E.	
05260	Feb 04 1797 B.C.E.	18:57:02	1065103.7628957	-1797 Feb 05 06:26:53	041390	LNN	Asc.	1.3850	0.3140	-0.6805	152	---	21.7N	80.6E	13 11 1797 B.C.E.	
05261	Jul 01 1797 B.C.E.	14:01:45	1065251.0845491	-1797 Jul 02 01:31:35	041390	LNN	Dec.	1.3865	0.3504	-0.7217	179	---	22.5S	148.0E	14 04 1797 B.C.E.	
05262	Jul 31 1797 B.C.E.	05:26:44	1065313.9268957	-1797 Jul 31 16:56:33	041390	LNN	Dec.	-1.4848	0.1677	-0.8998	124	---	23.5S	81.4W	14 05 1797 B.C.E.	
05263	Dec 26 1797 B.C.E.	00:00:09	1065428.5001032	-1797 Dec 26 11:29:59	041390	LPU	Asc.	-0.6132	1.7172	0.7484	294	164	22.9N	1.0E	14 10 1797 B.C.E.	
05264	Jun 20 1796 B.C.E.	14:45:55	1065604.5122211	-1796 Jun 21 02:15:23	041367	LTU	Dec.	0.6298	1.7310	0.6743	337	181	22.1S	136.3E	13 03 1796 B.C.E.	
05265	Dec 15 1796 B.C.E.	14:36:27	1065783.1086454	-1796 Dec 16 02:05:51	041367	LTU	Asc.	0.0600	2.7494	1.7465	333	216	099	22.4N	140.6E	14 09 1796 B.C.E.
05266	Jun 09 1795 B.C.E.	20:49:41	1065959.3678358	-1795 Jun 10 08:18:47	041344	LPU	Dec.	-0.1622	2.5629	1.5579	343	221	097	21.0S	44.9E	13 03 1795 B.C.E.
05267	Dec 04 1795 B.C.E.	23:40:30	1066137.4864540	-1795 Dec 05 11:09:33	041344	LPU	Asc.	0.7871	1.4449	0.3832	311	139	21.0N	3.4E	15 09 1795 B.C.E.	
05268	May 30 1794 B.C.E.	09:59:45	1066313.9149667	-1794 May 30 21:28:26	041320	LPU	Dec.	-0.9051	1.1746	0.2196	262	089	19.3S	152.9W	13 02 1794 B.C.E.	
05269	Oct 25 1794 B.C.E.	05:54:09	1066461.7459365	-1794 Oct 25 17:22:49	041320	LNN	Asc.	-1.5583	0.0519	-1.0534	071	---	5.6N	89.4W	14 07 1794 B.C.E.	
05270	Nov 24 1794 B.C.E.	01:27:42	1066491.5609003	-1794 Nov 24 12:56:22	041320	LNN	Asc.	1.5042	0.1504	-0.9534	120	---	18.6N	24.6W	14 08 1794 B.C.E.	
05271	Apr 19 1793 B.C.E.	20:21:39	1066639.3483639	-1793 Apr 20 07:49:55	041297	LPU	Dec.	0.8750	1.2273	0.2773	265	100	4.7S	55.1E	15 01 1793 B.C.E.	
05272	Oct 13 1793 B.C.E.	06:46:26	1066815.7822491	-1793 Oct 13 18:14:45	041298	LPU	Asc.	-0.8498	1.3338	0.2644	306	119	1.6N	102.4W	13 07 1793 B.C.E.	
05273	Apr 09 1792 B.C.E.	10:30:39	1066993.9379521	-1792 Apr 09 21:58:32	041275	LTU	Dec.	0.1372	2.6044	1.6082	339	219	098	1.3S	156.3W	14 01 1792 B.C.E.
05274	Oct 02 1792 B.C.E.	14:41:08	1067170.1119033	-1792 Oct 03 02:09:06	041275	LTU	Asc.	-0.1135	2.6548	1.6450	336	217	097	2.3S	139.2E	12 07 1792 B.C.E.
05275	Mar 29 1791 B.C.E.	17:51:11	1067348.2348770	-1791 Mar 30 05:18:42	041252	LPU	Dec.	-0.6535	1.6851	0.6334	332	175	2.3N	94.4E	15 13 1791 B.C.E.	
05276	Sep 22 1791 B.C.E.	04:46:00	1067524.6986116	-1791 Sep 22 16:13:33	041252	LPU	Asc.	0.5718	1.7931	0.8243	298	171	6.0S	71.8W	13 06 1791 B.C.E.	
05277	Feb 17 1790 B.C.E.	02:51:10	1067762.6188623	-1790 Feb 17 14:18:20	041229	LNN	Dec.	1.4884	0.1662	-0.9113	125	---	18.4N	37.2W	13 11 1790 B.C.E.	
05278	Mar 18 1790 B.C.E.	19:00:47	1067702.2922075	-1790 Mar 19 06:27:55	041229	LNN	Dec.	-1.4153	0.2999	-0.7767	167	---	6.0N	77.7E	14 12 1790 B.C.E.	
05279	Aug 13 1790 B.C.E.	10:58:23	1067849.9572100	-1790 Aug 13 22:25:32	041229	LNN	Asc.	-1.3893	0.2998	-0.6822	147	---	21.0S	163.4W	14 05 1790 B.C.E.	
05280	Sep 11 1790 B.C.E.	20:46:56	1067879.3659253	-1790 Sep 12 08:14:05	041229	LNN	Asc.	1.2486	0.5524	-0.4185	191	---	9.4S	48.2E	14 06 1790 B.C.E.	
05281	Feb 06 1789 B.C.E.	06:46:24	1068026.7822239	-1789 Feb 06 18:13:10	041205	LPU	Dec.	0.7183	1.5574	0.5230	313	157	20.7N	96.6W	13 11 1789 B.C.E.	
05282	Aug 01 1789 B.C.E.	21:37:28	1068204.4010204	-1789 Aug 02 09:04:12	041205	LPU	Dec.	-0.7118	1.5689	0.5352	315	160	22.5S	36.1E	15 05 1789 B.C.E.	
05283	Jan 25 1788 B.C.E.	17:47:24	1068381.2412505	-1788 Jan 26 05:13:47	041182	LTU	Dec.	-0.0306	2.7937	1.8099	328	213	100	22.1N	97.3E	14 11 1788 B.C.E.
05284	Jul 22 1788 B.C.E.	10:10:35	1068558.5490179	-1788 Jul 22 12:36:55	041182	LTU	Asc.	0.0264	2.8469	1.7732	373	235	106	23.3S	18.0W	14 04 1788 B.C.E.
05285	Jan 15 1787 B.C.E.	09:18:29	1068735.8878322	-1787 Jan 15 20:44:28	041159	LPU	Dec.	-0.7139	1.5295	0.5664	283	145	22.7N	136.6W	13 10 1787 B.C.E.	
05286	Jul 11 1787 B.C.E.	01:26:40	1068912.5601864	-1787 Jul 11 12:52:39	041159	LPU	Asc.	0.7696	1.4805	0.4121	325	149	23.2S	22.9W	14 04 1787 B.C.E.	
05287	Dec 06 1787 B.C.E.	12:36:22	1069061.0252560	-1787 Dec 07 00:02:21	041159	LNN	Dec.	1.3351	0.4183	-0.6014	177	---	21.9N	169.6E	14 09 1787 B.C.E.	
05288	Jan 05 1786 B.C.E.	00:46:25	1069090.5322391	-1786 Jan 05 12:12:02	041136	LNN	Dec.	-1.4098	0.2650	-0.7226	138	---	22.5N	9.7W	14 10 1786 B.C.E.	
05289	May 31 1786 B.C.E.	19:32:07	1069237.3139724	-1786 Jun 01 06:57:43	041136	LNN	Asc.	-1.1833	0.6808	-0.3072	219	---	20.0S	64.1E	13 02 1786 B.C.E.	
05290	Jun 30 1786 B.C.E.	05:49:33	1069266.7427459	-1786 Jun 30 17:15:09	041136	LNN	Asc.	1.4759	1.1602	-0.8601	116	---	22.2S	89.3W	13 03 1786 B.C.E.	
05291	Nov 25 1786 B.C.E.	19:32:01	1069415.3138974	-1786 Nov 26 06:57:36	041136	LPU	Dec.	0.6974	1.6180	0.5397	328	163	18.5N	65.1E	15 08 1786 B.C.E.	
05292	May 20 1785 B.C.E.	10:13:25	1069591.9259840	-1785 May 20 21:38:39	041113	LTU	Asc.	-0.3929	2.1099	1.1638	309	190	058	16.4S	155.8W	13 02 1785 B.C.E.
05293	Nov 13 1785 B.C.E.	19:45:27	1069746.6232329	-1785 Nov 14 07:10:41	041113	LTU	Dec.	0.0262	2.8644	1.7566	380	235	105	14.4N	61.5E	14 08 1785 B.C.E.
05294	May 10 1784 B.C.E.	03:31:52	1069946.3471297	-1784 May 10 14:56:40	041089	LPU	Dec.	0.3486	2.1899	1.2465	310	199	069	12.3S	54.6W	14 02 1784 B.C.E.
05295	Nov 02 1784 B.C.E.	19:30:32	1070123.3128719	-1784 Nov 03 06:55:23	041089	LPU	Dec.	-0.6457	1.7156	0.6317	337	175	9.8N	65.5E	13 08 1784 B.C.E.	
05296	Mar 31 1783 B.C.E.	08:53:08	1070271.8702321	-1783 Mar 31 20:17:34	041066	LNN	Asc.	-1.5122	0.0902	-0.9235	087	---	0.8N	31.5W	14 13 1783 B.C.E.	
05297	Apr 29 1783 B.C.E.	18:46:38	1070301.2823862	-1783 Apr 30 06:11:04	041066	LNN	Asc.	1.1310	0.7736	-0.2081	230	---	7.9S	77.8E	15 01 1783 B.C.E.	
05298	Sep 23 1783 B.C.E.	13:02:32	1070448.0434310	-1783 Sep 24 00:26:59	041066	LNN	Dec.	1.4706	0.1558	-0.8366	108	---	4.6S	168.8E	12 06 1783 B.C.E.	
05299	Oct 23 1783 B.C.E.	01:31:39	1070477.5636514	-1783 Oct 23 12:56:05	041066	LNN	Dec.	-1.2880	0.5							

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TT) Date and Time of Maximum Eclipse		Lunar Eclipse Delta T (seconds)		Eclipse Phase			Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Month	Day	Time (UT)	Julian Date (UT)	Time (UT)	Time (UT)	Delta T (seconds)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
05351	Mar	09	17:62	B.C.E.	00:34:25	1077919.5238975	-1762	Mar 09	11:50:49	040583	LPU	Asc.	0.6080	1.7598	0.7253	327	181	---	11.2N	4.2W	13	12	1762	B.C.E.
05352	Sep	02	17:62	B.C.E.	15:44:08	1078097.1556537	-1762	Sep 03	03:00:30	040583	LPU	Dec.	-0.6291	1.7207	0.6870	321	175	---	14.3S	124.9E	14	06	1762	B.C.E.
05353	Jan	28	17:61	B.C.E.	01:19:00	1078244.5548618	-1761	Jan 28	12:35:01	040561	LNN	Asc.	-1.3286	0.4052	-0.5649	166	---	---	20.5N	15.6W	13	11	1761	B.C.E.
05354	Feb	26	17:61	B.C.E.	10:54:59	1078273.9548468	-1761	Feb 26	22:10:59	040561	LNN	Asc.	1.2999	0.4640	-0.5182	181	---	---	15.6N	158.6W	13	12	1761	B.C.E.
05355	Jul	23	17:61	B.C.E.	03:31:21	1078421.6467734	-1761	Jul 23	14:47:22	040561	LNN	Dec.	1.5261	0.0976	-0.9813	097	---	---	21.8S	53.1W	14	04	1761	B.C.E.
05356	Aug	21	17:61	B.C.E.	19:57:10	1078451.3313700	-1761	Aug 22	07:13:11	040561	LNN	Dec.	-1.3933	0.3412	-0.7375	175	---	---	18.4S	61.8E	15	05	1761	B.C.E.
05357	Jan	16	17:60	B.C.E.	17:24:55	1078599.2256371	-1760	Jan 17	04:40:33	040538	LPU	Asc.	-0.6442	1.6585	0.6933	291	159	---	22.6N	102.1E	14	10	1760	B.C.E.
05358	Jul	12	17:60	B.C.E.	04:22:26	1078775.6822502	-1760	Jul 12	15:38:05	040538	LPU	Dec.	0.7754	1.4639	0.4074	319	146	---	23.2S	66.6W	13	04	1760	B.C.E.
05359	Jan	06	17:59	B.C.E.	07:52:25	1078959.9693079	-1759	Jan 06	19:07:37	040515	LTU	Asc.	0.0415	2.7840	1.7799	335	217	100	23.9N	115.9W	14	10	1759	B.C.E.
05360	Jul	01	17:59	B.C.E.	11:11:04	1079129.9660157	-1759	Jul 01	22:26:20	040515	LTU	Dec.	-0.0144	2.8323	1.8310	342	222	103	23.7S	169.5W	13	04	1759	B.C.E.
05361	Dec	26	17:59	B.C.E.	16:21:48	1079308.1818006	-1759	Dec 27	03:37:02	040515	LPU	Asc.	0.7190	1.4609	0.3969	314	142	---	24.3N	115.3E	15	10	1759	B.C.E.
05362	Jun	21	17:58	B.C.E.	00:57:03	1079484.5396167	-1758	Jun 21	12:11:55	040492	LPU	Dec.	-0.7570	1.4454	0.4923	281	136	---	23.5S	16.8W	13	03	1758	B.C.E.
05363	Nov	15	17:58	B.C.E.	22:09:56	1079632.4235672	-1758	Nov 16	09:24:48	040492	LNN	Asc.	-1.5645	0.0404	-1.0648	063	---	---	26.0E	20.0E	14	08	1758	B.C.E.
05364	Dec	15	17:58	B.C.E.	17:39:55	1079662.2360489	-1758	Dec 16	04:54:46	040492	LNN	Asc.	1.4953	0.1663	-0.9368	126	---	---	23.6N	94.3E	14	09	1758	B.C.E.
05365	May	11	17:57	B.C.E.	11:15:48	1079809.9693079	-1757	May 11	22:30:17	040469	LNN	Dec.	1.0265	0.9505	-0.0020	241	---	---	12.3S	170.3W	14	02	1757	B.C.E.
05366	Jun	09	17:57	B.C.E.	18:04:09	1079839.2528776	-1757	Jun 10	05:18:37	040469	LNN	Dec.	-1.4647	0.1411	-0.8006	099	---	---	22.5S	85.8E	14	03	1757	B.C.E.
05367	Nov	03	17:57	B.C.E.	23:31:41	1079986.4803411	-1757	Nov 04	10:46:11	040469	LPU	Asc.	-0.8527	1.3270	0.2607	303	117	---	10.2N	5.3E	13	08	1757	B.C.E.
05368	May	01	17:56	B.C.E.	00:47:54	1080164.5332615	-1756	May 01	12:01:58	040446	LTU	Dec.	0.2915	2.3235	1.3227	337	214	081	9.4S	12.8W	15	01	1756	B.C.E.
05369	Oct	24	17:56	B.C.E.	08:03:28	1080340.8357369	-1756	Oct 24	19:17:36	040446	LPU	Asc.	-0.1246	2.6334	1.6257	334	215	096	6.6N	122.6W	13	07	1756	B.C.E.
05370	Apr	20	17:55	B.C.E.	07:20:33	1080518.8059378	-1755	Apr 20	18:34:15	040423	LPU	Dec.	-0.4991	1.9690	0.9159	348	202	---	6.0S	110.3W	14	01	1755	B.C.E.
05371	Oct	13	17:55	B.C.E.	22:21:17	1080695.9341411	-1755	Oct 14	09:35:00	040423	LPU	Asc.	0.5494	1.8355	0.8642	299	174	---	2.9N	23.1E	13	07	1755	B.C.E.
05372	Apr	09	17:54	B.C.E.	08:17:40	1080872.8456039	-1754	Apr 09	19:31:00	040400	LNN	Dec.	-1.2646	0.5733	-0.4974	224	---	---	2.3S	123.7W	14	01	1754	B.C.E.
05373	Sep	04	17:54	B.C.E.	03:14:02	1081020.6347471	-1754	Sep 04	14:27:22	040400	LNN	Asc.	-1.4628	0.1709	-0.8229	113	---	---	14.5S	47.1W	14	06	1754	B.C.E.
05374	Oct	03	17:54	B.C.E.	14:02:52	1081050.0853293	-1754	Oct 04	01:16:12	040400	LNN	Asc.	1.2220	0.6055	-0.3738	200	---	---	0.9S	148.0E	13	07	1754	B.C.E.
05375	Feb	27	17:53	B.C.E.	12:06:54	1081197.4214611	-1753	Feb 28	09:19:52	040377	LPU	Dec.	0.8012	1.3985	0.3777	299	136	---	14.5N	33.4E	13	12	1753	B.C.E.
05376	Aug	23	17:53	B.C.E.	12:45:43	1081375.0317470	-1753	Aug 23	23:58:39	040377	LPU	Asc.	-0.8058	1.4032	0.3561	307	135	---	17.4S	169.7E	14	05	1753	B.C.E.
05377	Feb	16	17:52	B.C.E.	10:10:41	1081501.9240874	-1752	Feb 16	21:23:18	040354	LTU	Dec.	0.0376	2.7754	1.8026	326	211	100	17.2N	147.7W	13	11	1752	B.C.E.
05378	Aug	12	17:52	B.C.E.	15:17:20	1081729.1370368	-1752	Aug 13	02:29:53	040354	LTU	Asc.	-0.0886	2.7374	1.6543	375	234	104	19.7S	131.4E	14	05	1752	B.C.E.
05379	Feb	06	17:51	B.C.E.	02:15:02	1081906.9937676	-1751	Feb 06	13:27:12	040331	LPU	Dec.	-0.6613	1.6233	0.6658	288	155	---	19.2N	29.2W	14	11	1751	B.C.E.
05380	Aug	01	17:51	B.C.E.	15:21:40	1082083.1400416	-1751	Aug 02	02:33:52	040332	LPU	Asc.	0.6390	1.7213	0.6504	339	179	---	21.4S	129.7E	13	05	1751	B.C.E.
05381	Dec	28	17:51	B.C.E.	05:50:49	1082231.7436257	-1751	Dec 28	17:03:01	040332	LNN	Dec.	1.3529	0.3868	-0.6353	172	---	---	25.0N	86.6W	14	10	1751	B.C.E.
05382	Jan	26	17:50	B.C.E.	17:44:12	1082261.2390320	-1750	Jan 27	04:56:01	040309	LNN	Dec.	-1.3793	0.3206	-0.6662	152	---	---	20.7N	97.8E	15	11	1750	B.C.E.
05383	Jun	22	17:50	B.C.E.	10:01:22	1082401.9176103	-1750	Jun 22	21:13:11	040309	LNN	Asc.	-1.3190	0.4296	-0.5540	177	---	---	24.2S	152.6W	13	03	1750	B.C.E.
05384	Jul	21	17:50	B.C.E.	20:21:02	1082437.3479436	-1750	Jul 22	07:32:51	040309	LNN	Asc.	1.3401	0.4085	-0.6100	179	---	---	22.1S	54.1E	13	04	1750	B.C.E.
05385	Dec	17	17:50	B.C.E.	12:06:44	1082586.0046777	-1750	Dec 17	23:18:32	040309	LPU	Dec.	0.7080	1.5997	0.5190	329	162	---	23.3N	178.1E	14	09	1750	B.C.E.
05386	Jun	11	17:49	B.C.E.	01:12:43	1082762.5505012	-1749	Jun 11	12:24:10	040286	LPU	Asc.	-0.5387	1.8417	0.8970	299	173	---	21.8S	20.9W	14	03	1749	B.C.E.
05387	Dec	05	17:49	B.C.E.	12:00:27	1082940.0030889	-1749	Dec 05	23:11:54	040286	LTU	Dec.	0.0325	2.8521	1.7456	379	235	105	20.6N	178.7E	13	09	1749	B.C.E.
05388	May	31	17:48	B.C.E.	18:27:52	1083117.2693461	-1748	Jun 01	05:38:53	040263	LTU	Asc.	0.1996	2.4650	1.5182	317	203	091	18.8S	80.4E	15	02	1748	B.C.E.
05389	Nov	24	17:48	B.C.E.	12:11:23	1083294.9071005	-1748	Nov 24	23:22:28	040263	LPU	Dec.	-0.6417	1.7205	0.6415	335	175	---	17.1N	175.4E	13	08	1748	B.C.E.
05390	May	21	17:47	B.C.E.	09:07:26	1083471.8801664	-1747	May 21	20:18:07	040241	LPU	Asc.	0.9868	1.0413	0.0532	261	046	---	15.3S	139.0W	14	02	1747	B.C.E.
05391	Oct	15	17:47	B.C.E.	06:25:14	1083618.7675280	-1747	Oct 15	17:35:56	040241	LNN	Dec.	1.4793	0.1397	-0.8522	102	---	---	4.4N	98.1W	13	07	1747	B.C.E.
05392	Nov	13	17:47	B.C.E.	18:57:28	1083648.2899123	-1747	Nov 14	06:08:10	040241	LNN	Dec.	-1.2816	0.5173	-0.5043	195	---	---	13.1N	73.8E	13	08	1747	B.C.E.
05393	Jan	11	17:46	B.C.E.	03:33:06	1083796.6479841	-1746	Jan 11	14:43:24	040218	LPU	Asc.	-0.9636	1.1222	0.0582	294	059	---	2.8S	52.4W	14	01	1746	B.C.E.
05394	Oct	04	17:46	B.C.E.	21:39:10	1083973.4021961	-1746	Oct 05	08:49:27	040218	LPU	Dec.	0.7931	1.3864	0.4188	274	127	---	0.6S	34.2E	14	07	1746	B.C.E.
05395	Mar	30	17:45	B.C.E.	04:00:52	1084150.6672716	-1745	Mar 30	15:10:48	040195	LPU	Asc.	-0.2131	2.5015	1.4332	369	230	093	2.2N	58.0W	14	13	1745	B.C.E.
05396	Sep	23	17:45	B.C.E.	12:56:59	1084328.0395743	-1745	Sep 24	00:06:53	040195	LTU													

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar				
			Date (UT)	Date (UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year
05458	May 22 1720	B. C. E.	14:49:21	1093335.1176087	-1720 May 23 01:49:46	039626	LTU	Dec.	0.4545	2.0280	1.0203	332	201	022	16.3S	135.4E	14 02 1720	B. C. E.
05459	Nov 15 1720	B. C. E.	01:43:14	1093511.5716865	-1720 Nov 15 12:43:28	039627	LTU	Asc.	-0.1237	2.6328	1.6293	332	214	096	14.7N	27.9W	13 08 1720	B. C. E.
05460	May 11 1719	B. C. E.	20:27:15	1093689.3522554	-1719 May 12 07:27:18	039604	LPU	Dec.	-0.3285	2.2836	1.2275	361	221	073	13.6S	51.2E	15 02 1719	B. C. E.
05461	Nov 04 1719	B. C. E.	16:16:56	1093866.1784243	-1719 Nov 05 03:17:00	039604	LPU	Asc.	0.5440	1.8460	0.8736	300	174	---	11.6N	113.4E	14 08 1719	B. C. E.
05462	Apr 30 1718	B. C. E.	21:14:41	1094043.8519121	-1718 May 01 08:14:23	039582	LNN	Dec.	-1.0956	0.8811	-0.1850	269	---	---	10.4S	39.9E	14 01 1718	B. C. E.
05463	Sep 25 1718	B. C. E.	19:58:49	1094191.3325147	-1718 Sep 26 06:58:32	039582	LNN	Asc.	-1.5108	0.0877	-0.9168	083	---	---	6.3S	60.8E	15 06 1718	B. C. E.
05464	Oct 25 1718	B. C. E.	07:40:49	1094220.8200080	-1718 Oct 25 18:40:31	039582	LNN	Asc.	1.2153	0.6214	-0.3651	203	---	---	8.1N	117.6W	14 07 1718	B. C. E.
05465	Mar 20 1717	B. C. E.	12:59:48	1094368.0415307	-1717 Mar 20 23:59:08	039559	LPU	Dec.	0.9101	1.1922	0.1843	280	097	---	6.7N	168.7E	13 12 1717	B. C. E.
05466	Sep 14 1717	B. C. E.	04:25:05	1094545.6840836	-1717 Sep 14 15:24:23	039559	LPU	Asc.	-0.8709	1.2903	0.2303	301	111	---	9.9S	65.6W	14 06 1717	B. C. E.
05467	Oct 10 1716	B. C. E.	02:03:59	1094722.5860957	-1716 Mar 10 13:02:56	039536	LTU	Dec.	0.1337	2.5938	1.6314	322	208	096	10.1N	26.8W	13 12 1716	B. C. E.
05468	Sep 03 1716	B. C. E.	05:58:21	1094899.7488534	-1716 Sep 03 16:57:16	039536	LTU	Asc.	-0.1748	2.5838	1.4918	375	232	097	13.4S	88.8W	14 06 1716	B. C. E.
05469	Feb 27 1715	B. C. E.	18:38:40	1095077.2768462	-1715 Feb 28 05:37:13	039514	LPU	Dec.	-0.5815	1.7671	0.8147	295	168	---	13.1N	84.8E	14 12 1715	B. C. E.
05470	Aug 23 1715	B. C. E.	05:56:58	1095253.7478929	-1715 Aug 23 16:55:33	039514	LPU	Asc.	0.5378	1.9085	0.8348	348	196	---	16.4S	88.6W	13 05 1715	B. C. E.
05471	Jan 18 1714	B. C. E.	22:35:00	1095402.4409734	-1714 Jan 19 09:33:11	039491	LNN	Dec.	1.3929	0.3139	-0.7092	157	---	---	24.4N	25.1E	15 10 1714	B. C. E.
05472	Feb 17 1714	B. C. E.	10:04:07	1095431.9195312	-1714 Feb 17 21:02:18	039491	LNN	Dec.	-1.3212	0.4267	-0.5594	175	---	---	15.7N	146.6W	14 11 1714	B. C. E.
05473	Jul 14 1714	B. C. E.	00:56:06	1095578.5389549	-1714 Jul 14 11:54:17	039491	LNN	Asc.	-1.4370	0.2120	-0.7695	126	---	---	25.2S	14.7W	13 04 1714	B. C. E.
05474	Aug 12 1714	B. C. E.	11:30:58	1095607.9798402	-1714 Aug 12 22:29:09	039491	LNN	Asc.	1.2305	0.6094	-0.4085	213	---	---	18.6S	172.5W	12 05 1714	B. C. E.
05475	Jan 08 1713	B. C. E.	04:16:36	1095756.6781941	-1713 Jan 08 15:14:23	039468	LPU	Dec.	0.7367	1.5470	0.4664	327	155	---	24.5N	61.7W	14 10 1713	B. C. E.
05476	Jul 02 1713	B. C. E.	16:26:59	1095933.1854096	-1713 Jul 03 03:24:48	039468	LPU	Asc.	-0.6729	1.5960	0.6501	286	152	---	24.5S	111.7E	13 04 1713	B. C. E.
05477	Dec 27 1713	B. C. E.	04:00:21	1096110.6669064	-1713 Dec 27 14:58:10	039468	LTU	Dec.	0.0515	2.8149	1.7130	379	235	104	23.7N	59.1W	14 10 1713	B. C. E.
05478	Jun 22 1712	B. C. E.	09:29:24	1096287.8954200	-1712 Jun 22 20:26:48	039445	LPU	Asc.	0.0567	2.7302	1.7774	321	208	099	22.9S	144.6W	14 03 1712	B. C. E.
05479	Dec 16 1712	B. C. E.	04:49:49	1096464.7012636	-1712 Dec 16 15:47:16	039445	LPU	Dec.	-0.6325	1.7334	0.6623	333	177	---	21.9N	72.7W	13 09 1712	B. C. E.
05480	Jun 11 1711	B. C. E.	23:22:19	1096642.4738300	-1711 Jun 12 10:19:21	039423	LPU	Asc.	0.8407	1.3139	0.3170	287	123	---	20.6S	6.9E	15 03 1711	B. C. E.
05481	Nov 06 1711	B. C. E.	00:09:48	1096789.5068017	-1711 Nov 06 11:06:51	039423	LNN	Dec.	1.4739	0.1485	-0.8412	104	---	---	13.0N	5.0W	13 08 1711	B. C. E.
05482	Dec 05 1711	B. C. E.	12:28:39	1096819.0198983	-1711 Dec 05 23:25:43	039423	LNN	Dec.	-1.2767	0.5229	-0.4918	195	---	---	19.3N	171.8E	13 09 1711	B. C. E.
05483	May 02 1710	B. C. E.	16:34:56	1096967.1903901	-1710 May 03 03:31:36	039400	LNN	Asc.	-1.1325	0.8124	-0.2518	259	---	---	11.1S	109.9E	15 01 1710	B. C. E.
05484	Oct 26 1710	B. C. E.	15:27:46	1097144.1442768	-1710 Oct 27 02:24:25	039400	LPU	Dec.	0.8022	1.3716	0.4004	274	125	---	8.3N	125.9E	14 07 1710	B. C. E.
05485	Apr 20 1709	B. C. E.	17:12:59	1097321.2173515	-1709 Apr 21 04:09:18	039378	LTU	Asc.	-0.3730	2.2043	1.1435	360	217	060	6.4S	101.6E	14 01 1709	B. C. E.
05486	Oct 15 1709	B. C. E.	06:17:43	1097498.7623016	-1709 Oct 15 17:13:59	039378	LTU	Dec.	0.1428	2.5950	1.5969	330	213	095	3.4N	95.9W	14 07 1709	B. C. E.
05487	Apr 09 1708	B. C. E.	22:03:18	1097675.4189639	-1708 Apr 10 08:59:16	039356	LTU	Asc.	0.4039	2.1252	1.1089	338	207	051	1.5S	30.5E	14 01 1708	B. C. E.
05488	Oct 04 1708	B. C. E.	16:07:58	1097852.1722030	-1708 Oct 05 03:03:53	039356	LPU	Dec.	-0.5768	1.8260	0.7738	331	184	---	1.7S	117.4E	15 07 1708	B. C. E.
05489	Mar 01 1707	B. C. E.	01:53:54	1098000.5911013	-1707 Mar 01 12:49:27	039333	LNN	Asc.	-1.4306	0.2110	-0.7453	121	---	---	11.7N	24.2W	14 12 1707	B. C. E.
05490	Mar 30 1707	B. C. E.	10:02:05	1098029.9181166	-1707 Mar 30 20:57:39	039333	LNN	Asc.	1.1263	0.7743	-0.1917	224	---	---	3.4N	147.8W	13 13 1707	B. C. E.
05491	Sep 23 1707	B. C. E.	18:47:17	1098207.2828352	-1707 Sep 24 05:42:49	039333	LNN	Dec.	-1.3093	0.5029	-0.5908	211	---	---	6.8S	78.4E	14 06 1707	B. C. E.
05492	Feb 18 1706	B. C. E.	18:32:24	1098355.2724977	-1706 Feb 19 05:27:34	039310	LPU	Asc.	-0.7379	1.4837	0.5239	282	140	---	15.8N	86.7E	15 11 1706	B. C. E.
05493	Aug 14 1706	B. C. E.	01:55:28	1098531.5801797	-1706 Aug 14 12:50:38	039310	LPU	Dec.	0.9415	1.1596	0.1018	291	076	---	18.5S	28.3W	13 05 1706	B. C. E.
05494	Feb 08 1705	B. C. E.	08:43:45	1098709.8637181	-1705 Feb 08 19:38:32	039288	LPU	Dec.	-0.0315	2.8024	1.7981	338	220	101	19.3N	126.1W	14 11 1705	B. C. E.
05495	Aug 02 1705	B. C. E.	09:43:27	1098885.9051789	-1705 Aug 02 20:38:18	039288	LTU	Dec.	0.1635	2.5576	1.5585	337	217	095	21.5S	145.6W	13 05 1705	B. C. E.
05496	Jan 27 1704	B. C. E.	16:22:30	1099064.1822898	-1704 Jan 28 03:16:53	039265	LPU	Asc.	0.7226	1.5644	0.5006	323	158	---	22.2N	118.7E	15 11 1704	B. C. E.
05497	Jul 23 1704	B. C. E.	00:06:17	1099240.5043595	-1704 Jul 23 11:00:42	039265	LPU	Dec.	-0.5673	1.7942	0.8396	298	171	---	23.7S	1.8W	14 04 1704	B. C. E.
05498	Dec 17 1704	B. C. E.	22:30:47	1099388.4380493	-1704 Dec 18 09:25:12	039265	LNN	Asc.	-1.5765	0.0152	-1.0836	038	---	---	21.4N	22.6E	14 09 1704	B. C. E.
05499	Jan 16 1703	B. C. E.	17:13:15	1099418.2175335	-1703 Jan 17 04:07:17	039243	LNN	Asc.	1.4467	0.2522	-0.8443	154	---	---	24.6N	105.0E	14 10 1703	B. C. E.
05500	Jun 13 1703	B. C. E.	09:28:54	1099565.8950715	-1703 Jun 13 20:22:58	039243	LNN	Asc.	1.2553	0.5352	-0.4261	190	---	---	20.5S	144.4W	14 03 1703	B. C. E.
05501	Jul 12 1703	B. C. E.	17:01:06	1099595.2090987	-1703 Jul 13 03:55:09	039243	LNN	Dec.	-1.2764	0.4912	-0.4594	180	---	---	25.1S	103.6E	15 04 1703	B. C. E.
05502	Dec 07 1703	B. C. E.	00:55:54	1099742.5388247	-1703 Dec 07 11:49:58	039243	LPU	Asc.	-0.8491	1.3285	0.2722	300	119	---	20.1N	14.8W	13 09 1703	B. C. E.
05503	Jun 02 1702	B. C. E.	21:47:16	1099920.4078222	-1702 Jun 03 08:40:55	039220	LPU	Dec.	0.5363	1.8799	0.8681	327	191	---	19.0S	30.7E	15 03 1702	B. C. E.
05504	Nov 26 1702	B. C. E.	10:34:34	1100096.9406754	-1702 Nov 26 21:02:11	039220	LPU	Asc.	-0.1229	2.6330	1.6323	331	214	096	18.1N	160.4W	13 09 1702	B. C. E.
05505	May 22 1701	B. C. E.	02:56:14	1100274.6223844	-1701 May 23 13:49:30	039197	LTU	Dec.	-0.2408	2.4457	1.3874	366	227	090	16.9S	46.6W	14 02 1701	B. C. E.
05506	Nov 15 1701	B. C. E.	01:18:02	1100451.5551899	-1701 Nov 15 12:11:19	039197	LPU	Asc.	0.5439	1.8462	0.8738	299	174	---	15.5N	21.9W	13 08 1701	B. C. E.
05507	May 11 1700	B. C. E.	03:38:40	1100628.6518502	-1700 May 11 14:31:35	039175	LNT	Dec.	-1.0061	1.0444	-0.0200	287	---	---	14.0S	56.9W	14 02 1700	B. C. E.
05508	Oct 06 1700	B. C. E.	04:31:26	1100776.6884897	-1700 Oct 06 15:24:21	039175	LNN	Asc.	-1.5258	0.0637	-0.9470	071	---	---	1.8S	68.0W	14 07 1700	B. C. E.

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Month	Day	Year	Time (UT)	(JD)	Time (UT)	(Delta T)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year			
05565	Jul	24	1677	B.C.E.	08:05:24	1109103.8370780	-1677 Jul 24 18:49:43	038660	LPU	Asc.	-0.7883	1.3861	0.4367	273	126	---	23.7S	121.3W	13	04	1677	B.C.E.
05566	Jan	17	1676	B.C.E.	19:34:11	1109281.3154020	-1676 Jan 18 06:18:08	038637	LTU	Dec.	0.0932	2.7349	1.6401	377	234	103	23.2N	70.0E	14	10	1676	B.C.E.
05567	Jul	14	1676	B.C.E.	00:44:28	1109458.5308772	-1676 Jul 14 11:28:24	038637	LTU	Asc.	-0.0728	2.7049	1.7436	323	209	099	23.8S	12.0W	14	04	1676	B.C.E.
05568	Jan	06	1675	B.C.E.	21:12:58	1109635.3840022	-1675 Jan 07 07:56:34	038615	LPU	Dec.	-0.6070	1.7749	0.7143	333	181	---	23.3N	44.0E	13	10	1675	B.C.E.
05569	Jul	03	1675	B.C.E.	13:43:41	1109813.0720027	-1675 Jul 04 00:27:15	038615	LPU	Asc.	0.7027	1.5725	0.5648	308	161	---	23.1S	152.5E	14	04	1675	B.C.E.
05570	Nov	27	1675	B.C.E.	18:01:36	1109960.2511154	-1675 Nov 28 04:45:11	038615	LNN	Dec.	1.4651	0.1625	-0.8231	108	---	---	20.1N	87.6E	13	09	1675	B.C.E.
05571	Dec	27	1675	B.C.E.	05:49:21	1109989.7425987	-1675 Dec 27 16:32:56	038615	LNN	Dec.	-1.2610	0.5471	-0.4584	197	---	---	22.4N	86.4W	13	10	1675	B.C.E.
05572	May	24	1674	B.C.E.	05:24:14	1110137.7251577	-1674 May 24 16:07:27	038593	LNN	Asc.	-1.3076	0.4920	-0.5739	209	---	---	18.2S	83.8W	14	02	1674	B.C.E.
05573	Jun	22	1674	B.C.E.	19:46:09	1110167.3237167	-1674 Jun 23 06:29:23	038593	LNN	Asc.	1.5141	0.1080	-0.9479	100	---	---	21.6S	61.3E	15	03	1674	B.C.E.
05574	Nov	17	1674	B.C.E.	09:28:37	1110314.8948692	-1674 Nov 17 20:11:49	038593	LPU	Dec.	0.8014	1.3740	0.4009	274	125	---	16.3N	144.5W	13	08	1674	B.C.E.
05575	May	12	1673	B.C.E.	06:15:05	1110491.7604779	-1673 May 12 16:57:56	038570	LPU	Asc.	-0.5425	1.8904	0.8355	346	196	---	14.2S	95.8W	13	02	1673	B.C.E.
05576	Nov	05	1673	B.C.E.	23:53:28	1110669.4954675	-1673 Nov 06 10:36:16	038570	LTU	Dec.	0.1453	2.5942	1.5886	332	214	095	12.0N	0.6W	14	08	1673	B.C.E.
05577	May	01	1672	B.C.E.	12:06:26	1110846.0044683	-1672 May 01 22:48:56	038548	LTU	Asc.	0.2489	2.4045	1.3982	341	217	087	9.8S	177.4E	13	01	1672	B.C.E.
05578	Oct	26	1672	B.C.E.	08:51:10	1111023.8688701	-1672 Oct 26 19:33:37	038548	LPU	Dec.	-0.5686	1.8460	0.7840	335	186	---	7.2N	134.6W	14	07	1672	B.C.E.
05579	Mar	22	1671	B.C.E.	17:39:04	1111171.2354633	-1671 Mar 23 04:21:09	038525	LNN	Asc.	-1.5310	0.0228	-0.9256	040	---	---	3.7N	97.8E	14	12	1671	B.C.E.
05580	Apr	21	1671	B.C.E.	01:01:29	1111200.5426967	-1671 Apr 21 11:43:34	038525	LPU	Asc.	0.9861	1.0272	0.0696	250	036	---	5.2S	15.1W	13	01	1671	B.C.E.
05581	Oct	15	1671	B.C.E.	10:38:37	1111377.9434892	-1671 Oct 15 21:20:43	038525	LNN	Dec.	-1.2847	0.5519	-0.5492	221	---	---	2.2N	160.7W	14	07	1671	B.C.E.
05582	Dec	12	1670	B.C.E.	10:33:16	1111525.9397643	-1670 Mar 12 21:14:58	038503	LPU	Dec.	-0.8356	1.3031	0.3462	270	114	---	8.3N	154.6W	14	12	1670	B.C.E.
05583	Sep	04	1670	B.C.E.	17:10:31	1111702.2156311	-1670 Sep 05 03:52:15	038503	LNT	Asc.	1.0121	1.0307	-0.0281	277	---	---	11.9S	102.8E	13	06	1670	B.C.E.
05584	Mar	01	1669	B.C.E.	00:27:07	1111880.5188364	-1669 Mar 01 11:08:26	038481	LTU	Asc.	-0.1179	2.6439	1.6394	340	220	099	12.8N	2.2W	15	02	1669	B.C.E.
05585	Aug	24	1669	B.C.E.	01:33:28	1112056.5649064	-1669 Aug 24 12:14:51	038481	LTU	Dec.	-0.2457	2.4067	1.4075	332	216	086	16.1S	22.6W	13	05	1669	B.C.E.
05586	Feb	18	1668	B.C.E.	07:31:14	1112234.8133514	-1668 Feb 18 18:12:10	038458	LPU	Asc.	0.6474	1.7016	0.6392	333	176	---	17.0N	107.5W	14	11	1668	B.C.E.
05587	Aug	13	1668	B.C.E.	10:19:20	1121411.1731528	-1668 Aug 14 02:50:19	038458	LTU	Dec.	-0.4706	1.9733	0.1353	305	183	018	19.7S	118.7E	13	05	1668	B.C.E.
05588	Feb	07	1667	B.C.E.	08:12:43	1125888.8421645	-1667 Feb 07 18:53:19	038436	LNN	Asc.	1.3810	0.3693	-0.7204	184	---	---	20.7N	118.2W	14	11	1667	B.C.E.
05589	Jul	05	1667	B.C.E.	00:25:35	1127336.5177683	-1667 Jul 05 11:06:11	038436	LNN	Dec.	1.3965	0.2806	-0.6896	142	---	---	22.5S	7.7W	15	04	1667	B.C.E.
05590	Aug	03	1667	B.C.E.	08:45:38	112765.8650228	-1667 Aug 03 19:26:14	038436	LNN	Dec.	-1.1748	0.6817	-0.2773	209	---	---	22.7S	130.9W	14	05	1667	B.C.E.
05591	Dec	28	1667	B.C.E.	17:42:24	1129133.2377805	-1667 Dec 29 04:23:02	038437	LPU	Asc.	-0.8778	1.3075	0.2613	296	116	---	22.9N	95.7E	13	10	1667	B.C.E.
05592	Jun	24	1666	B.C.E.	11:44:11	113090.9890195	-1666 Jun 24 22:24:24	038414	LPU	Dec.	0.6954	1.5930	0.5712	315	164	---	22.5S	178.0W	14	03	1666	B.C.E.
05593	Dec	18	1666	B.C.E.	04:13:03	113267.1673724	-1666 Dec 18 14:53:19	038414	LTU	Asc.	-0.1261	2.6234	1.6300	328	212	096	22.6N	63.3W	13	09	1666	B.C.E.
05594	Jun	12	1665	B.C.E.	15:54:28	113445.1682835	-1665 Jun 13 02:34:18	038392	LTU	Dec.	-0.0666	2.7680	1.7043	372	235	105	21.7S	118.8E	14	03	1665	B.C.E.
05595	Dec	06	1665	B.C.E.	19:17:59	113622.3041569	-1665 Dec 07 05:57:51	038392	LPU	Asc.	0.5424	1.8481	0.8773	299	174	---	21.5N	69.2E	14	09	1665	B.C.E.
05596	Jun	01	1664	B.C.E.	16:30:50	113799.1881301	-1664 Jun 02 03:10:25	038370	LPU	Dec.	-0.8285	1.3691	0.3070	316	130	---	20.1S	109.4E	14	03	1664	B.C.E.
05597	Oct	27	1664	B.C.E.	21:48:54	113947.4098084	-1664 Oct 28 08:28:20	038370	LNN	Asc.	-1.5442	0.0347	-0.9853	053	---	---	7.0N	31.5E	15	08	1664	B.C.E.
05598	Nov	26	1664	B.C.E.	10:24:17	113976.9353334	-1664 Nov 26 21:03:47	038370	LNN	Asc.	1.2234	0.6101	-0.3837	203	---	---	19.6N	158.4W	14	09	1664	B.C.E.
05599	Apr	22	1663	B.C.E.	10:42:53	114123.9464467	-1663 Apr 22 21:22:01	038347	LNN	Dec.	1.1090	0.8188	-0.1723	238	---	---	5.7S	160.4W	13	01	1663	B.C.E.
05600	May	21	1663	B.C.E.	20:54:25	114153.3711889	-1663 May 22 07:33:32	038347	LNN	Dec.	-1.5444	0.0332	-0.9844	053	---	---	17.9S	43.4E	13	02	1663	B.C.E.
05601	Oct	17	1663	B.C.E.	04:44:06	114301.6972972	-1663 Oct 17 15:23:13	038347	LPU	Asc.	-0.9211	1.2064	0.1303	297	085	---	3.3N	72.2W	14	07	1663	B.C.E.
05602	Oct	16	1662	B.C.E.	01:07:17	114478.5467268	-1662 Apr 12 11:46:03	038325	LTU	Dec.	0.3207	2.2443	1.2944	314	196	074	2.3S	15.7W	14	01	1662	B.C.E.
05603	Oct	06	1662	B.C.E.	05:06:10	114655.7126103	-1662 Oct 06 15:44:54	038325	LPU	Asc.	-0.2482	2.4545	1.3518	374	228	087	0.8S	77.3W	14	07	1662	B.C.E.
05604	Mar	31	1661	B.C.E.	18:13:38	114833.2594638	-1661 Apr 01 04:52:00	038303	LTU	Dec.	-0.4128	2.0740	1.1266	307	188	051	1.1N	88.5E	14	13	1661	B.C.E.
05605	Sep	24	1661	B.C.E.	05:09:17	115009.7147765	-1661 Sep 24 15:47:41	038303	LPU	Asc.	0.4453	2.0796	1.0031	353	206	009	4.8S	77.8W	13	06	1661	B.C.E.
05606	Feb	19	1660	B.C.E.	22:28:10	115158.4362267	-1660 Feb 20 09:06:09	038280	LNN	Dec.	1.5054	0.1076	-0.9157	094	---	---	17.2N	28.5E	15	11	1660	B.C.E.
05607	Mar	21	1660	B.C.E.	09:22:06	115187.8903431	-1660 Mar 21 20:00:05	038280	LNN	Dec.	-1.1821	0.6823	-0.3043	217	---	---	4.6N	137.9W	14	12	1660	B.C.E.
05608	Sep	13	1660	B.C.E.	11:33:03	115363.9812893	-1660 Sep 13 22:11:03	038280	LNN	Asc.	1.1210	0.8101	-0.2076	239	---	---	8.5S	173.5W	12	06	1660	B.C.E.
05609	Feb	09	1659	B.C.E.	03:21:10	115512.6396954	-1659 Feb 09 13:58:47	038258	LPU	Dec.	0.8318	1.3707	0.2937	316	127	---	19.7N	45.1W	14	11	1659	B.C.E.
05610	Aug	04	1659	B.C.E.	16:05:08	115689.1702339	-1659 Aug 05 02:42:46	038258	LPU	Asc.	-0.8373	1.2972	0.3455	267	112	---	22.1S	119.4E	13	05	1659	B.C.E.
05611	Jan	29	1658	B.C.E.	03:09:07	115866.6313270	-1658 Jan 29 13:46:23	038236	LTU	Dec.	0.1239	2.6763	1.5859	375	233	101	21.6N	42.9W	14	11	1658	B.C.E.
05612	Jul	25	1658	B.C.E.	08:30:05	116043.8542192	-1658 Jul 25 19:07:19	038236	LTU	Asc.	-0.1299	2.6026	1.6364	324	209							

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)			Greatest in Zenith		Hebrew Date on the Creation Calendar				
										Pen.	Par.	Tot.	Lat.	Lon.	Day	Month	Year		
05672	Mar 22 1633 B.C.E.	15:30:39	1125051.1462854	-1633 Mar 23 01:58:40	037683	LTU	Asc.	-0.2331	2.4332	1.4277	339	217	089	4.7N	130.3E	14	12	1633	B.C.E.
05673	Sep 14 1633 B.C.E.	18:01:47	1125227.2512369	-1633 Sep 15 04:29:52	037683	LTU	Dec.	0.2987	2.3097	1.3104	328	208	077	8.5S	89.7E	13	06	1633	B.C.E.
05674	Mar 11 1632 B.C.E.	21:56:48	1125405.4144409	-1632 Mar 12 08:24:27	037661	LPU	Asc.	0.5403	1.8975	0.8366	345	195	---	9.5N	34.9E	15	12	1632	B.C.E.
05675	Sep 04 1632 B.C.E.	08:46:42	1125581.8657652	-1632 Sep 04 19:14:23	037661	LPU	Dec.	-0.4024	2.1005	1.1384	308	190	053	13.1S	130.9W	13	06	1632	B.C.E.
05676	Feb 28 1631 B.C.E.	22:32:30	1125759.4392306	-1631 Mar 01 08:59:48	037639	LNN	Asc.	1.2830	0.5452	-0.5368	220	---	---	14.1N	26.8E	14	12	1631	B.C.E.
05677	Jul 26 1631 B.C.E.	15:39:55	1125907.1527152	-1631 Jul 27 02:07:14	037639	LNN	Dec.	1.5196	0.0603	-0.9209	068	---	---	21.2S	124.9E	14	04	1631	B.C.E.
05678	Aug 25 1631 B.C.E.	00:58:53	1125936.5408866	-1631 Aug 25 11:26:12	037639	LNN	Dec.	-1.0987	0.8263	-0.1423	228	---	---	17.2S	13.7W	14	05	1631	B.C.E.
05679	Jan 19 1630 B.C.E.	10:08:30	1126083.9225647	-1630 Jan 19 20:35:28	037617	LPU	Asc.	-0.8858	1.2499	0.2157	288	105	---	22.1N	148.6W	13	10	1630	B.C.E.
05680	Jul 16 1630 B.C.E.	01:52:51	1126261.5783652	-1630 Jul 16 12:19:47	037617	LPU	Asc.	0.8395	1.3345	0.3010	300	125	---	22.9S	28.9W	15	04	1630	B.C.E.
05681	Jan 08 1629 B.C.E.	21:34:25	1126438.3989038	-1629 Jan 09 08:01:02	037595	LPU	Asc.	-0.1456	2.5831	1.5987	326	210	095	23.6N	38.9E	13	10	1629	B.C.E.
05682	Jul 10 1629 B.C.E.	05:04:24	1126615.7113864	-1629 Jul 10 15:30:58	037595	LPU	Dec.	0.0954	2.7187	1.6480	373	234	104	23.8S	77.6W	14	04	1629	B.C.E.
05683	Dec 28 1629 B.C.E.	13:05:07	1126793.0452220	-1629 Dec 28 23:31:42	037595	LPU	Asc.	0.5314	1.8666	0.8989	300	176	---	24.3N	164.8E	13	10	1629	B.C.E.
05684	Jun 23 1628 B.C.E.	05:35:51	1126969.7332317	-1628 Jun 23 16:02:05	037573	LPU	Dec.	-0.6582	1.6812	0.6199	336	176	---	23.7S	86.2W	13	03	1628	B.C.E.
05685	Nov 18 1628 B.C.E.	15:14:42	1127118.1352090	-1628 Nov 19 01:40:56	037573	LNN	Asc.	-1.5530	0.0221	-1.0050	042	---	---	14.8N	129.8E	15	08	1628	B.C.E.
05686	Dec 18 1628 B.C.E.	04:04:28	1127147.6697742	-1628 Dec 18 14:30:41	037573	LNN	Asc.	1.2259	0.6067	-0.3895	204	---	---	24.1N	61.4W	14	09	1628	B.C.E.
05687	May 14 1627 B.C.E.	01:02:43	1127294.5435537	-1627 May 14 11:28:33	037550	LNN	Dec.	1.2518	0.5524	-0.4302	199	---	---	13.1S	17.1W	13	02	1627	B.C.E.
05688	Jun 12 1627 B.C.E.	10:46:54	1127323.9492306	-1627 Jun 12 21:12:43	037550	LNN	Dec.	-1.3797	0.3325	-0.6795	163	---	---	22.9S	164.6W	13	03	1627	B.C.E.
05689	Nov 07 1627 B.C.E.	21:17:36	1127472.3872185	-1627 Nov 08 07:43:25	037550	LPU	Asc.	-0.9338	1.1868	0.1031	297	077	---	11.7N	38.7E	15	08	1627	B.C.E.
05690	Oct 03 1626 B.C.E.	16:09:08	1127649.1730069	-1626 Oct 04 02:34:36	037528	LPU	Dec.	0.4646	1.9776	1.0332	304	183	027	10.3S	116.7E	14	02	1626	B.C.E.
05691	Oct 27 1626 B.C.E.	09:06:34	1127826.3795569	-1626 Oct 28 07:32:02	037528	LPU	Asc.	-0.2679	2.4202	1.3136	374	226	083	8.1N	41.4E	14	08	1626	B.C.E.
05692	Oct 15 1625 B.C.E.	21:22:41	1128180.3907523	-1625 Oct 16 07:47:49	037506	LPU	Dec.	-0.2751	2.3265	1.3797	315	199	082	7.2S	141.6W	14	01	1625	B.C.E.
05693	Apr 12 1624 B.C.E.	00:10:53	1128358.5075563	-1624 Apr 12 10:35:37	037484	LNN	Dec.	-1.0583	0.9106	-0.0783	247	---	---	3.8S	2.3W	15	01	1624	B.C.E.
05694	Oct 05 1624 B.C.E.	04:21:48	1128534.6818035	-1624 Oct 05 14:46:33	037485	LNN	Asc.	1.0827	0.8799	-0.1368	245	---	---	0.2N	66.9W	13	07	1624	B.C.E.
05695	Oct 02 1623 B.C.E.	17:50:04	1128863.2431066	-1623 Oct 03 04:14:27	037463	LPU	Dec.	0.9355	1.1788	0.1050	300	078	---	13.1N	97.4E	15	12	1623	B.C.E.
05696	Aug 26 1623 B.C.E.	08:28:50	1128859.8533610	-1623 Aug 26 18:53:14	037463	LPU	Asc.	-0.9158	1.1561	0.1988	257	083	---	16.5S	126.0W	13	05	1623	B.C.E.
05697	Feb 19 1623 B.C.E.	17:50:04	1129037.2430989	-1622 Feb 20 04:14:06	037441	LPU	Dec.	0.2099	2.5138	1.4329	371	230	093	16.2N	97.5E	14	11	1623	B.C.E.
05698	Aug 16 1622 B.C.E.	00:20:42	1129214.5143713	-1622 Aug 16 10:44:41	037441	LPU	Asc.	-0.2260	2.4318	1.4548	324	207	088	18.9S	4.3W	14	05	1622	B.C.E.
05700	Feb 08 1621 B.C.E.	20:56:34	1129391.3726127	-1621 Feb 09 07:20:14	037419	LPU	Dec.	-0.5208	1.9233	0.8818	335	194	---	18.6N	50.5E	13	11	1621	B.C.E.
05701	Aug 04 1621 B.C.E.	11:47:49	1129568.9951396	-1621 Aug 04 22:11:27	037419	LPU	Asc.	0.5286	1.9017	0.8748	330	192	---	20.6S	176.7W	14	05	1621	B.C.E.
05702	Dec 29 1621 B.C.E.	20:34:14	1129716.3511064	-1621 Dec 30 06:57:53	037419	LNN	Dec.	1.4689	0.1507	-0.8253	104	---	---	25.3N	52.9E	13	10	1621	B.C.E.
05703	Jan 28 1620 B.C.E.	07:08:53	1129745.7978402	-1620 Jan 28 17:32:11	037397	LNN	Dec.	-1.1990	0.6526	-0.3365	211	---	---	20.3N	103.2W	13	11	1620	B.C.E.
05704	Jun 25 1620 B.C.E.	00:44:14	1129745.7978402	-1620 Jun 25 11:07:31	037397	LNN	Asc.	-1.5589	0.0337	-1.0378	057	---	---	24.7S	13.1W	14	03	1620	B.C.E.
05705	Jul 24 1620 B.C.E.	16:09:16	1129923.1731006	-1620 Jul 25 02:32:32	037397	LNN	Asc.	1.3115	0.4871	-0.5831	207	---	---	21.7S	117.3E	14	04	1620	B.C.E.
05706	Dec 19 1620 B.C.E.	12:21:22	1130071.0148347	-1620 Dec 19 22:44:39	037397	LPU	Dec.	0.8076	1.3623	0.3897	274	124	---	23.9N	174.8E	13	09	1620	B.C.E.
05707	Jun 14 1619 B.C.E.	01:58:28	1130247.5822725	-1619 Jun 14 12:21:24	037375	LPU	Asc.	-0.7919	1.4298	0.3807	315	142	---	22.6S	32.2W	13	03	1619	B.C.E.
05708	Dec 09 1619 B.C.E.	02:17:38	1130425.5955809	-1619 Dec 09 12:40:31	037375	LPU	Dec.	0.1443	2.5997	1.5870	336	216	095	21.5N	35.4W	14	09	1619	B.C.E.
05709	Jun 03 1618 B.C.E.	09:12:40	1130601.8837914	-1618 Jun 03 19:35:14	037353	LPU	Asc.	0.0098	2.8378	1.8424	341	222	103	19.8S	140.8W	13	03	1618	B.C.E.
05710	Nov 28 1618 B.C.E.	10:07:55	1130779.2216955	-1618 Nov 28 20:30:27	037353	LPU	Dec.	-0.5718	1.8449	0.7734	338	187	---	18.4N	153.6W	14	09	1618	B.C.E.
05711	May 22 1617 B.C.E.	23:16:14	1130956.4696101	-1617 May 23 09:38:26	037331	LNN	Dec.	0.7589	1.4402	0.4906	280	135	---	16.3S	8.7E	14	02	1617	B.C.E.
05712	Nov 16 1617 B.C.E.	10:57:01	1131133.9562643	-1617 Nov 16 21:19:13	037331	LNN	Dec.	-1.2741	0.5740	-0.5326	226	---	---	14.5N	166.2W	14	08	1617	B.C.E.
05713	Jan 13 1616 B.C.E.	09:34:53	1131281.8992274	-1616 Jan 13 19:56:42	037309	LNN	Asc.	-1.0273	0.9509	-0.0052	242	---	---	4.4S	143.3W	14	01	1616	B.C.E.
05714	May 12 1616 B.C.E.	16:31:02	1131311.1882212	-1616 May 13 02:52:51	037309	LNN	Asc.	1.4718	0.1276	-0.8133	094	---	---	12.5S	110.7E	14	02	1616	B.C.E.
05715	Oct 06 1616 B.C.E.	17:19:35	1131458.2219274	-1616 Oct 07 03:41:24	037309	LNN	Dec.	1.0606	0.9416	-0.1169	265	---	---	0.9N	98.8E	13	07	1616	B.C.E.
05716	Apr 02 1615 B.C.E.	22:48:29	1131636.4503399	-1615 Apr 03 09:09:54	037287	LPU	Asc.	-0.3007	2.3098	1.3030	338	213	079	0.4N	19.7E	15	13	1615	B.C.E.
05717	Sep 26 1615 B.C.E.	02:30:15	1131812.6043347	-1615 Sep 26 12:51:43	037287	LPU	Dec.	0.3144	2.2807	1.2815	326	206	074	4.2S	38.0W	13	06	1615	B.C.E.
05718	Mar 23 1614 B.C.E.	04:54:40	1131990.7046283	-1614 Mar 23 15:15:44	037265	LPU	Asc.	0.4755	0.2160	0.9556	351	205	---	5.3N	70.5W	14	12	1614	B.C.E.
05719	Sep 15 1614 B.C.E.	17:17:37	1132167.2205667	-1614 Sep 16 03:38:42	037265	LPU	Dec.	-0.3785	2.1455	1.1813	310	192	060	9.0S	100.9E	14	06	1614	B.C.E.
05720	Mar 11 1613 B.C.E.	05:29:13	1132344.7286182	-1613 Mar 11 15:49:56	037243	LNN	Asc.	1.2229	0.6536	-0.4244	238	---	---	10.2N	78.0W	14	12	1613	B.C.E.
05721	Sep 04 1613 B.C.E.	09:17:04	1132521.8868534	-1613 Sep 04 19:37:48	037244	LNN	Dec.	-1.0712	0.8793	-0.0944	235	---	---	13.6S	138.4W	14	06	1613	B.C.E.
05722	Jan 29 1612 B.C.E.	18:10:51	1132669.9575370	-1612 Jan 30 04:31:14	037222	LPU	Asc.	-0.9093	1.2035	0.1758	283	095	---	20.3N	91.6E	13	11	1612	B.C.E.
05723	Jul 26 1612 B.C.E.	09:04:56	1132846.8784234	-1612 Jul 26 19:25:17	037222	LPU	Dec.	0.9031	1.2210	0.1812	292	099	---	21.8S	136.3W				

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar
05779	May 03 1588 B.C.E.	14:33:08	1141529.1063387	-1588 May 04 00:44:45	036698	LPU	Dec.	-0.9159	1.1742	0.1806	275 094	---	11.8S 140.0E	14 02 1588 B.C.E.
05780	Oct 26 1588 B.C.E.	21:39:06	1141705.4021555	-1588 Oct 27 07:50:45	036698	LNN	Asc.	1.0651	0.9110	-0.1033	247	---	9.1N 32.7E	13 08 1588 B.C.E.
05781	Mar 24 1587 B.C.E.	07:39:54	1141853.8193731	-1587 Mar 27 17:51:11	036676	LNN	Dec.	1.0680	0.9340	-0.1366	275	---	5.2N 111.6W	14 13 1587 B.C.E.
05782	Sep 17 1587 B.C.E.	01:24:54	1142030.5589599	-1587 Sep 17 11:36:10	036676	LPU	Asc.	-0.9685	1.0626	0.0991	249	053	8.8S 20.7W	14 06 1587 B.C.E.
05783	Mar 13 1586 B.C.E.	07:55:55	1142207.8304927	-1586 Mar 13 18:06:50	036654	LTU	Dec.	0.3264	2.2950	1.2240	364	221 073	8.8N 115.0W	13 12 1586 B.C.E.
05784	Sep 06 1586 B.C.E.	16:41:10	1142385.1952491	-1586 Sep 07 02:52:02	036654	LTU	Asc.	-0.2950	2.3109	1.3225	324	205 078	12.2S 110.4E	15 06 1586 B.C.E.
05785	Mar 01 1585 B.C.E.	12:07:39	1142562.0053110	-1585 Mar 01 22:18:13	036632	LTU	Dec.	-0.4268	2.0890	1.0610	338	204 038	12.2N 177.5W	13 12 1585 B.C.E.
05786	Aug 26 1585 B.C.E.	03:02:48	1142739.6269460	-1585 Aug 26 13:13:18	036632	LTU	Asc.	0.4429	2.0657	1.0254	340	203 025	15.1S 45.1W	14 05 1585 B.C.E.
05787	Jan 20 1584 B.C.E.	13:49:43	1142887.0761893	-1584 Jan 20 23:59:53	036611	LNN	Dec.	1.4957	0.0974	-0.8706	083	---	24.1N 156.7E	13 10 1584 B.C.E.
05788	Feb 18 1584 B.C.E.	23:25:39	1142916.4761513	-1584 Feb 19 09:35:51	036611	LNN	Dec.	-1.1251	0.7823	-0.1952	226	---	15.0N 13.0E	13 11 1584 B.C.E.
05789	Aug 15 1584 B.C.E.	06:18:58	1143093.7631764	-1584 Aug 15 16:29:10	036611	LNN	Asc.	1.2037	0.6900	-0.3904	242	---	17.7S 94.4W	14 05 1584 B.C.E.
05790	Jan 10 1583 B.C.E.	05:53:38	1143241.7455827	-1583 Jan 10 16:03:27	036589	LPU	Dec.	0.8308	1.3188	0.3483	271	117	24.5N 85.6W	14 10 1583 B.C.E.
05791	Jul 05 1583 B.C.E.	15:31:55	1143418.1471658	-1583 Jul 06 01:41:45	036589	LPU	Asc.	-0.9408	1.1556	0.1083	291	078	24.7S 125.7E	13 04 1583 B.C.E.
05792	Dec 30 1583 B.C.E.	19:34:49	1143596.3158463	-1583 Dec 31 05:44:36	036589	LTU	Dec.	0.1561	2.5791	1.5642	338	217 095	24.0N 67.7E	15 10 1583 B.C.E.
05793	Jun 24 1582 B.C.E.	23:35:12	1143772.8278200	-1582 Jun 25 09:44:42	036567	LPU	Asc.	-0.1396	2.5974	1.6064	337	218 098	23.4S 4.2E	13 03 1582 B.C.E.
05794	Dec 20 1582 B.C.E.	02:46:14	1143950.6154371	-1582 Dec 20 12:55:40	036567	LPU	Dec.	-0.5669	1.8554	0.7810	341	189	22.5N 41.4W	14 09 1582 B.C.E.
05795	Jun 13 1581 B.C.E.	14:13:06	1144127.0924294	-1581 Jun 14 00:22:12	036545	LPU	Asc.	0.6100	1.7124	0.7647	294	164	21.3S 144.3E	13 03 1581 B.C.E.
05796	Dec 08 1581 B.C.E.	03:10:39	1144304.6323988	-1581 Dec 08 13:19:44	036545	LNN	Dec.	-1.2679	0.5851	-0.5208	228	---	20.2N 48.5W	14 09 1581 B.C.E.
05797	May 05 1580 B.C.E.	00:28:06	1144452.5195166	-1580 May 05 10:36:51	036525	LNN	Asc.	-1.1750	0.6811	-0.2775	211	---	12.6S 8.7W	15 02 1580 B.C.E.
05798	Oct 31 1580 B.C.E.	07:28:27	1144481.8114235	-1580 Jun 27 13:37:12	036525	LNN	Asc.	1.3318	0.3859	-0.5578	161	---	18.6S 114.5W	14 03 1580 B.C.E.
05799	Jun 28 1580 B.C.E.	10:04:42	1144568.9199326	-1580 Oct 28 20:13:27	036525	LNN	Dec.	1.0652	0.9318	-0.1242	262	---	9.8N 153.6W	12 08 1580 B.C.E.
05800	Oct 24 1579 B.C.E.	13:03:35	1144807.0441541	-1579 Oct 24 23:11:56	036503	LTU	Asc.	-0.4498	2.0379	1.0275	333	201 026	8.1S 163.6E	14 01 1579 B.C.E.
05801	Apr 17 1579 B.C.E.	19:48:58	1144983.3256736	-1579 Oct 18 05:57:23	036503	LTU	Dec.	0.3294	2.2527	1.2544	324	204 071	4.8N 61.0E	13 07 1579 B.C.E.
05802	Oct 13 1578 B.C.E.	18:24:33	1145161.2670516	-1578 Apr 14 04:32:33	036481	LTU	Asc.	0.3267	2.2890	1.2289	362	221 073	3.2S 84.7E	15 01 1578 B.C.E.
05803	Oct 07 1578 B.C.E.	10:43:13	1145237.9466782	-1578 Oct 07 20:51:14	036481	LTU	Dec.	-0.3505	2.1988	1.2306	311	194 066	0.2S 161.8W	13 07 1578 B.C.E.
05804	Apr 01 1577 B.C.E.	18:58:36	1145515.2906979	-1577 Apr 02 05:06:15	036459	LNN	Asc.	1.0819	0.9085	-0.1620	272	---	1.8N 77.6E	14 13 1577 B.C.E.
05805	Sep 26 1577 B.C.E.	02:15:32	1145692.5941233	-1577 Sep 26 12:23:11	036459	LNN	Dec.	-1.0361	0.9486	-0.0347	243	---	5.2S 34.0W	14 06 1577 B.C.E.
05806	Feb 20 1576 B.C.E.	09:53:14	1145839.9119694	-1576 Feb 20 20:00:32	036437	LPU	Asc.	-0.9767	0.7322	0.0589	269	056	14.6N 143.6W	13 11 1576 B.C.E.
05807	Aug 16 1576 B.C.E.	23:49:33	1146017.4927374	-1576 Aug 17 09:56:49	036437	LNT	Dec.	1.0101	1.0313	-0.0214	277	---	17.3S 3.2E	15 05 1576 B.C.E.
05808	Feb 09 1575 B.C.E.	22:46:27	1146194.4489190	-1575 Feb 10 08:53:24	036416	LTU	Asc.	-0.2187	2.4413	1.4718	320	205 088	18.4N 23.2E	14 11 1575 B.C.E.
05809	Aug 06 1575 B.C.E.	01:34:47	1146371.5582812	-1575 Aug 06 11:41:42	036416	LTU	Dec.	0.2977	2.3534	1.2709	369	225 079	20.6S 23.2W	14 05 1575 B.C.E.
05810	Jan 30 1574 B.C.E.	14:58:44	1146549.1241238	-1574 Jan 31 01:05:18	036394	LTU	Asc.	0.4776	1.9621	1.0008	304	182 004	21.5N 139.8E	13 11 1574 B.C.E.
05811	Jul 26 1574 B.C.E.	02:04:53	1146725.5867236	-1574 Jul 26 12:11:28	036394	LTU	Dec.	-0.4392	2.0836	1.0211	353	209 024	23.1S 31.3W	13 04 1574 B.C.E.
05812	Jun 20 1573 B.C.E.	05:49:20	1146903.7425972	-1573 Jun 20 15:55:32	036372	LNN	Asc.	1.1990	0.6565	-0.3405	213	---	24.0N 83.6E	14 10 1573 B.C.E.
05813	Jun 14 1573 B.C.E.	22:44:37	1147050.4476486	-1573 Jun 15 08:50:48	036372	LNN	Dec.	1.4609	0.1645	-0.8099	111	---	20.8S 16.8E	13 03 1573 B.C.E.
05814	Jul 14 1573 B.C.E.	08:19:47	1147079.8470758	-1573 Jul 14 18:25:59	036372	LNN	Dec.	-1.1585	0.7360	-0.2714	230	---	24.8S 125.7W	14 04 1573 B.C.E.
05815	Dec 09 1573 B.C.E.	22:06:41	1147228.4213072	-1573 Dec 10 08:12:52	036372	LPU	Asc.	-0.9480	1.1635	0.0744	297	066	20.8N 27.7E	14 09 1573 B.C.E.
05816	Jun 04 1572 B.C.E.	14:35:44	1147405.1081497	-1572 Jun 05 00:41:36	036351	LPU	Dec.	0.6874	1.5673	0.6259	284	149	19.6S 138.7E	13 03 1572 B.C.E.
05817	Nov 28 1572 B.C.E.	21:27:34	1147582.3941482	-1572 Nov 29 07:33:26	036351	LPU	Asc.	-0.2803	2.3972	1.2911	373	225 081	19.0N 36.5E	14 09 1572 B.C.E.
05818	Nov 25 1571 B.C.E.	07:46:54	1147759.8242387	-1571 May 17 15:52:21	036329	LTU	Dec.	-0.0506	2.7403	1.7895	322	208 100	17.7S 119.2W	14 02 1571 B.C.E.
05819	May 17 1571 B.C.E.	22:24:51	1147936.4392466	-1571 Nov 18 08:30:22	036329	LPU	Asc.	0.4041	2.1523	1.0815	350	209 045	16.3N 21.4E	13 08 1571 B.C.E.
05820	May 14 1570 B.C.E.	21:37:54	1148114.7031350	-1570 May 15 07:43:00	036307	LPU	Dec.	-0.8409	1.3135	0.3168	288	124	15.3S 33.2E	15 02 1570 B.C.E.
05821	Nov 07 1570 B.C.E.	06:24:59	1148290.7673441	-1570 Nov 07 16:30:06	036307	LNN	Asc.	1.0613	0.9169	-0.0954	247	---	13.2N 99.0W	13 08 1570 B.C.E.
05822	Oct 31 1569 B.C.E.	14:20:16	1148439.9074083	-1569 Apr 04 00:25:02	036286	LNN	Dec.	1.1449	0.7923	-0.2770	257	---	1.0N 147.2E	14 01 1569 B.C.E.
05823	Sep 27 1569 B.C.E.	10:05:00	1148615.9201416	-1569 Sep 27 20:09:47	036286	LPU	Asc.	-0.9850	1.0337	0.0673	246	039	4.5S 151.3W	13 07 1569 B.C.E.
05824	Mar 23 1568 B.C.E.	14:46:45	1148793.1158043	-1568 Mar 24 00:51:12	036265	LTU	Dec.	0.3950	2.1666	1.1005	359	215 051	4.8N 141.4E	13 13 1568 B.C.E.
05825	Sep 17 1568 B.C.E.	01:02:43	1148970.5435588	-1568 Sep 17 11:07:07	036265	LTU	Asc.	-0.3190	2.2697	1.2757	325	205 073	8.1S 15.0E	14 06 1568 B.C.E.
05826	Mar 12 1567 B.C.E.	19:32:32	1149147.3142570	-1567 Mar 13 05:36:37	036243	LTU	Dec.	-0.3697	2.1906	1.1691	339	209 062	8.3N 70.6E	13 12 1567 B.C.E.
05827	Sep 06 1567 B.C.E.	10:52:10	1149324.9528986	-1567 Sep 06 20:56:12	036243	LTU	Asc.	0.4112	2.1272	1.0832	344	207 044	11.5S 162.7W	14 06 1567 B.C.E.
05828	Jan 31 1566 B.C.E.	22:17:15	1149472.4286415	-1566 Feb 01 08:20:55	036221	LNN	Dec.	1.5178	0.0548	-0.9089	063	---	22.2N 30.7E	14 11 1566 B.C.E.
05829	Mar 02 1566 B.C.E.	07:23:16	1149501.8078195	-1566 Mar 02 17:26:56	036221	LNN	Dec.	-1.0785	0.8650	-0.1070	235	---	11.5N 106.7W	13 12 1566 B.C.E.
05830	Aug 26 1566 B.C.E.	13:36:03	1149679.0667030	-1566 Aug 26 23:39:44	036221	LNN	Asc.	1.1597	0.7732	-0.3122	255	---	14.6S 156.3E	14 05 1566 B.C.E.
05831	Jan 21 1565 B.C.E.	14:29:45	1149827.1039966	-1565 Jan 22 00:33:05	036200	LPU	Dec.	0.8503	1.2823	0.3132	269	111	23.4N 146.6E	14 10 1565 B.C.E.
05832	Jul 15 1565 B.C.E.	22:30:23	1150003.4377657	-1565 Jul 16 08:33:43	036200	LNT	Asc.	-1.0668	1.0344	-0.0125	278	---	24.5S 21.9E	14 04 1565 B.C.E.
05833	Jan 10 1564 B.C.E.	04:03:14	1150181.6689072	-1564 Jan 10 14:06:09	036178	LTU	Dec.	0.1698	2.5543	1.5388	338	217 094	23.8N 58.1W	15 10 1564 B.C.E.
05834	Jul 05 1564 B.C.E.	06:56:21	1150357.7891308	-1564 Jul 05 16:59:21	036178	LTU	Asc.	-0.2075	2.4721	1.4824	334	214 091	24.1S 105.4W	14 04 1564 B.C.E.
05835	Dec 30 1564 B.C.E.	10:56:58	1150535.9562294	-1564 Dec 30 20:59:55	036178	LPU	Dec.	-0.5582	1.8715	0.7967	343	190	23.3N 162.9W	14 10 1564 B.C.E.
05836	Jun 24 1563 B.C.E.	21:47:14	1150712.4077995	-1563 Jun 25 07:49:51	036156	LPU	Asc.	0.5396	1.8415	0.8938	299	174	22.8S 31.2E	14 03 1563 B.C.E.
05837	Dec 19 1563 B.C.E.	11:12:21	1150889.9669088	-1563 Dec 19 21:14:57	036156	LNN	Dec.	-1.2605	0.5979	-0.5065	230	---	21.9N 168.0W	13 09 1563 B.C.E.
05838	May 16 1562 B.C.E.	07:50:20	1151037.8266255	-1562 May 17 16:52:35	036135	LNN	Asc.	-1.2514	0.5421	-0.4186	192	---	16.3S 120.9E	14 02 1562 B.C.E.
05839	Jun 14 1562 B.C.E.	14:59:08	1151067.1243955	-1562 Jun 15 01:01:22	036135	LNN	Asc.	1.2636	0.5124	-0.4337	183	---	20.7S 132.9W	14 03 1562 B.C.E.
05840	Nov 08 1562 B.C.E.	18:34:20	1151214.2738422	-1562 Nov 09 04:36:35	036135	LNN	Dec.	1.0628	0.9350	-0.1187	262	---	13.8N 78.8E	13 08 1562 B.C.E.
05841	May 04 1561 B.C.E.	20:01:44	1151392.8045380	-1561 May 05 06:03:36	036113	LPU	Dec.	-0.5304	1.8915	0.8783	328	192	12.0	

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar			
											Pen.	Par.	Lat.	Lon.	Day	Month	Year	
05886	Oct 17 1541 B.C.E.	19:39:42	1158863.3192405	-1541 Oct 18 05:34:26	035684	LNN	Dec.	-1.0241	0.9750	-0.0171	248	---	3.8N	63.7E	15	07	1541 B.C.E.	
05887	Mar 14 1540 B.C.E.	01:06:39	1159010.5462861	-1540 Mar 14 11:01:02	035662	LNN	Asc.	-1.0705	0.8944	-0.1067	247	---	7.0N	13.2W	13	12	1540 B.C.E.	
05888	Sep 07 1540 B.C.E.	15:04:35	1159188.1281885	-1540 Sep 08 00:58:57	035662	LNN	Dec.	1.0881	0.8945	-0.1709	264	---	10.3S	134.0E	14	06	1540 B.C.E.	
05889	Mar 03 1539 B.C.E.	14:56:52	1159365.1228187	-1539 Mar 04 00:50:54	035641	LTU	Asc.	-0.3012	2.2850	1.3252	315	199	077	11.5N	140.2E	13	12	1539 B.C.E.
05890	Aug 27 1539 B.C.E.	15:57:56	1159542.1652328	-1539 Aug 28 01:51:57	035641	LTU	Dec.	0.3957	2.1776	1.0871	366	216	048	14.7S	121.2E	13	06	1539 B.C.E.
05891	Feb 21 1538 B.C.E.	07:33:10	1159719.8146964	-1538 Feb 21 17:26:48	035619	LTU	Asc.	0.4091	2.0857	1.1288	308	189	052	15.7N	108.3W	14	12	1538 B.C.E.
05892	Aug 16 1538 B.C.E.	16:32:11	1159896.1890116	-1538 Aug 17 02:25:52	035619	LTU	Dec.	-0.3289	2.2870	1.2228	358	219	072	18.6S	112.8E	13	05	1538 B.C.E.
05893	Feb 10 1537 B.C.E.	22:16:04	1160074.4278188	-1537 Feb 11 08:09:21	035598	LNN	Asc.	1.1511	0.7444	-0.2524	226	---	19.5N	31.1E	15	11	1537 B.C.E.	
05894	Aug 04 1537 B.C.E.	23:23:59	1160250.4749890	-1537 Aug 05 09:17:18	035598	LNN	Dec.	-1.0401	0.9528	-0.0536	254	---	21.9S	9.6E	13	05	1537 B.C.E.	
05895	Dec 31 1537 B.C.E.	14:18:18	1160399.0960440	-1536 Jan 01 00:11:13	035576	LPU	Asc.	-0.9713	1.1208	0.0318	294	043	---	23.0N	147.1E	14	10	1537 B.C.E.
05896	Jun 26 1536 B.C.E.	05:44:46	1160575.7394208	-1536 Jun 26 15:43:45	035577	LPU	Dec.	0.8271	1.3116	0.3688	268	115	---	22.6S	87.9W	14	03	1536 B.C.E.
05897	Dec 20 1536 B.C.E.	13:35:15	1160753.0661425	-1536 Dec 20 23:28:12	035577	LTU	Asc.	-0.2945	2.3690	1.2673	371	224	078	22.9N	156.5E	13	09	1536 B.C.E.
05898	Jun 15 1535 B.C.E.	22:38:35	1160930.4434559	-1535 Jun 16 08:31:09	035556	LTU	Dec.	0.0989	2.6547	1.6979	323	209	098	22.2S	18.0E	15	03	1535 B.C.E.
05899	Dec 09 1535 B.C.E.	15:14:43	1161107.1352215	-1535 Dec 10 01:07:21	035556	LTU	Asc.	0.3986	2.1588	1.0953	348	208	048	21.9N	130.3E	13	09	1535 B.C.E.
05900	Jun 05 1534 B.C.E.	11:41:20	1161284.9870395	-1534 Jun 05 21:33:33	035534	LPU	Dec.	-0.6877	1.5985	0.5938	310	164	---	21.0S	178.1W	14	03	1534 B.C.E.
05901	Nov 29 1534 B.C.E.	00:01:47	1161461.5012423	-1534 Nov 29 09:54:02	035534	LNN	Asc.	1.0561	0.9236	-0.0830	246	---	20.2N	2.6W	13	09	1534 B.C.E.	
05902	Apr 25 1533 B.C.E.	03:24:31	1161609.6420205	-1533 Apr 25 13:16:24	035513	LNN	Dec.	1.3092	0.4900	-0.5778	208	---	7.2S	51.1W	14	01	1533 B.C.E.	
05903	May 24 1533 B.C.E.	17:43:19	1161639.2384188	-1533 May 25 03:35:12	035513	LNN	Dec.	-1.5075	0.1191	-0.9345	105	---	19.0S	91.2E	15	02	1533 B.C.E.	
05904	Oct 19 1533 B.C.E.	03:43:33	1161786.6523900	-1533 Oct 19 13:35:26	035513	LPU	Asc.	-1.0035	1.0024	0.0309	244	010	---	4.5N	57.2W	14	07	1533 B.C.E.
05905	Apr 14 1532 B.C.E.	04:12:56	1161963.6756508	-1532 Apr 14 14:04:28	035491	LPU	Dec.	0.5466	1.8838	0.8268	345	195	---	3.6S	62.4W	13	01	1532 B.C.E.
05906	Oct 08 1532 B.C.E.	18:05:49	1162141.2540376	-1532 Oct 09 03:57:18	035491	LPU	Asc.	-0.3489	2.2202	1.2157	326	204	066	0.7N	87.5E	15	07	1532 B.C.E.
05907	Apr 03 1531 B.C.E.	10:06:01	1162317.9208428	-1531 Apr 03 19:57:13	035470	LTU	Dec.	-0.2383	2.4254	1.4163	342	217	088	0.0N	149.8W	13	01	1531 B.C.E.
05908	Sep 28 1531 B.C.E.	02:52:37	1162495.6198753	-1531 Sep 28 12:43:45	035470	LTU	Asc.	0.3674	2.2139	1.1546	350	212	060	3.1S	43.9W	14	07	1531 B.C.E.
05909	Mar 23 1530 B.C.E.	22:57:03	1162672.4562830	-1530 Mar 24 08:47:52	035449	LPU	Dec.	-0.9652	1.0677	0.1059	253	056	---	3.5N	18.2E	13	13	1530 B.C.E.
05910	Sep 17 1530 B.C.E.	04:39:18	1162849.6939639	-1530 Sep 17 14:30:08	035449	LNN	Asc.	1.0946	0.8973	-0.9773	273	---	7.0S	70.2W	14	06	1530 B.C.E.	
05911	Feb 12 1529 B.C.E.	07:15:14	1162997.8022451	-1529 Feb 12 17:05:41	035427	LPU	Dec.	0.9116	1.1684	0.2021	261	087	---	18.9N	103.5W	14	11	1529 B.C.E.
05912	Aug 06 1529 B.C.E.	12:56:19	1163174.0391036	-1529 Aug 06 22:46:46	035427	LNN	Asc.	-1.1717	0.8308	-0.2161	253	---	21.6S	166.8E	13	05	1529 B.C.E.	
05913	Jan 31 1528 B.C.E.	20:32:27	1163352.3558706	-1528 Feb 01 06:22:31	035406	LTU	Dec.	0.2177	2.4666	1.4508	339	216	090	20.8N	56.5E	15	11	1528 B.C.E.
05914	Jul 26 1528 B.C.E.	22:02:12	1163528.4181897	-1528 Jul 27 07:52:19	035406	LTU	Asc.	-0.3270	2.2522	1.2639	327	205	073	22.8S	29.6E	13	04	1528 B.C.E.
05915	Jan 21 1527 B.C.E.	02:52:20	1163706.6196774	-1527 Jan 21 12:42:03	035384	LPU	Dec.	-0.5212	1.9390	0.8650	347	197	---	22.1N	39.4W	14	10	1527 B.C.E.
05916	Jul 16 1527 B.C.E.	13:11:21	1163883.0455503	-1527 Jul 16 23:01:06	035384	LTU	Asc.	0.4108	2.0787	1.1293	307	188	052	23.2S	161.5E	13	04	1527 B.C.E.
05917	Jan 10 1526 B.C.E.	02:58:26	1164068.3239090	-1526 Jan 10 12:47:49	035363	LNN	Asc.	-1.2309	0.6496	-0.4495	239	---	22.6N	42.1E	14	10	1526 B.C.E.	
05918	Jun 06 1526 B.C.E.	22:29:32	1164208.4371709	-1526 Jun 07 08:18:56	035363	LNN	Asc.	-1.4058	0.2620	-0.7051	138	---	22.1S	138.9E	15	03	1526 B.C.E.	
05919	Jul 06 1526 B.C.E.	06:08:49	1164237.5612116	-1526 Jul 06 15:58:12	035363	LNN	Asc.	1.1347	0.7522	-0.2006	218	---	22.7S	93.6W	14	04	1526 B.C.E.	
05920	Nov 30 1526 B.C.E.	11:39:54	1164384.9860398	-1526 Nov 30 21:29:18	035363	LNN	Dec.	1.0557	0.9448	-0.1025	261	---	20.6N	176.8W	12	09	1526 B.C.E.	
05921	May 26 1525 B.C.E.	09:48:45	1164562.9088536	-1525 May 26 19:37:46	035342	LPU	Asc.	-0.6960	1.5911	0.5711	315	164	---	18.8S	149.8W	14	02	1525 B.C.E.
05922	Nov 18 1525 B.C.E.	22:22:47	1164739.4324881	-1525 Nov 18 08:11:50	035342	LTU	Dec.	0.3274	2.2541	1.2606	321	202	071	16.9N	32.0E	13	08	1525 B.C.E.
05923	May 15 1524 B.C.E.	13:56:13	1164917.0807031	-1524 May 15 23:44:52	035321	LTU	Asc.	0.0716	2.7583	1.6957	372	235	105	15.0S	148.9E	14	02	1524 B.C.E.
05924	Nov 08 1524 B.C.E.	13:30:51	1165094.6063076	-1524 Nov 08 23:19:32	035321	LTU	Dec.	-0.3410	2.2181	1.2464	312	195	068	12.7N	155.0E	13	08	1524 B.C.E.
05925	May 04 1523 B.C.E.	14:34:52	1165271.1075406	-1523 May 05 00:23:12	035300	LPU	Asc.	0.8340	1.3588	0.2974	315	128	---	10.7S	140.2E	13	02	1523 B.C.E.
05926	Oct 29 1523 B.C.E.	04:27:56	1165448.6806020	-1523 Oct 29 14:16:15	035300	LNN	Dec.	-1.0240	0.9770	-0.0187	249	---	8.2N	68.9W	14	08	1523 B.C.E.	
05927	Mar 25 1522 B.C.E.	08:34:10	1165595.9607628	-1522 Mar 25 18:22:08	035278	LNN	Asc.	-1.1261	0.7939	-0.2056	234	---	2.8N	126.1W	13	13	1522 B.C.E.	
05928	Apr 23 1522 B.C.E.	19:05:24	1165625.2954179	-1522 Apr 24 04:53:22	035278	LNN	Asc.	1.5461	0.0301	-0.9876	051	---	6.1S	73.7E	13	01	1522 B.C.E.	
05929	Sep 18 1522 B.C.E.	22:54:24	1165773.4544167	-1522 Sep 18 08:42:18	035278	LNN	Dec.	1.1158	0.8468	-0.2247	259	---	6.2S	16.1E	14	06	1522 B.C.E.	
05930	Mar 13 1521 B.C.E.	22:49:44	1165950.5412091	-1521 Mar 14 08:37:22	035257	LTU	Dec.	-0.3535	2.1869	1.2316	312	194	067	7.5N	21.2E	14	12	1521 B.C.E.
05931	Sep 06 1521 B.C.E.	23:24:26	1166127.4752952	-1521 Sep 07 09:12:03	035257	LTU	Dec.	0.4322	2.1125	1.0183	364	212	022	11.0S	9.3E	14	06	1521 B.C.E.
05932	Mar 03 1520 B.C.E.	15:37:19	1166305.5091334	-1520 Mar 04 01:24:34	035236	LTU	Asc.	0.3643	2.1669	1.2118	311	193	065	12.1N	130.2E	15	12	1520 B.C.E.
05933	Aug 27 1520 B.C.E.	00:02:02	1166481.5041435	-1520 Aug 27 09:49:20	035236	LTU	Dec.	-0.2858	2.3665	1.3014	360	221	081	15.4S	0.3E	13	05	1520 B.C.E.
05934	Feb 21 1519 B.C.E.	06:15:00	1166659.7604191	-1519 Feb 21 16:01:54	035214	LNN	Asc.	1.1166	0.8076	-0.1891	235	---	16.3N	88.6W	14	11	1519 B.C.E.	
05935	Aug 16 1519 B.C.E.	07:11:16	1166835.7994956	-1519 Aug 16 16:58:11	035214	LPU	Dec.	-0.9918	1.0414	0.0351	263	043	---	19.3S	106.9W	13	05	1519 B.C.E.
05936	Jan 11 1518 B.C.E.	22:13:55	1166984.4263310	-1518 Jan 12 08:00:27	035193	LNT	Asc.	-0.9901	1.0857	-0.0023	291	---	22.6N	29.4E	14	10	1518 B.C.E.	
05937	Jul 07 1518 B.C.E.	13:25:09	1167161.0591336	-1518 Jul 07 23:11:43	035193	LPU	Dec.	0.8922	1.1928	0.2485	259	092	---	23.0S	157.6E	13	04	1518 B.C.E.
05938	Dec 31 1518 B.C.E.	21:33:42	1167338.3983977	-1517 Jan 01 07:														

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar	
			Julian Date (UT)	Date (UT)								Pen.	Par.	Lat.	Lon.	Day	Month
05993	Mar 04 1493 B.C.E.	23:25:01	1776168.4757113	-1493	Mar 05 09:02:44	034663	LPU	Dec.	1.0012	1.0028	0.0388	247	011	---	12.0N	13.6E	15 12 1493 B.C.E.
05994	Apr 03 1493 B.C.E.	07:10:32	1776197.7989870	-1493	Apr 03 16:48:15	034663	LNN	Dec.	-1.5315	0.0201	-0.9247	038	---	---	1.4S	106.7W	14 01 1493 B.C.E.
05995	Apr 28 1493 B.C.E.	04:05:16	1776344.6703293	-1493	Apr 28 13:42:59	034663	LNN	Asc.	-1.1972	0.6853	-0.3621	231	---	---	1.5S	60.1W	13 06 1493 B.C.E.
05996	Feb 22 1492 B.C.E.	12:21:38	1776523.0150244	-1492	Feb 22 21:58:58	034642	LTU	Dec.	0.2959	2.3233	1.3073	339	213	079	14.9N	179.5E	14 12 1492 B.C.E.
05997	Aug 17 1492 B.C.E.	13:44:35	1776699.0726221	-1492	Aug 17 23:21:58	034642	LTU	Asc.	-0.4197	2.0821	1.0938	320	196	046	18.3S	154.8E	13 05 1492 B.C.E.
05998	Feb 11 1491 B.C.E.	18:08:49	1776877.2561239	-1491	Feb 12 03:45:50	034622	LPU	Dec.	-0.4547	2.0601	0.9881	354	207	---	17.6N	92.5E	15 11 1491 B.C.E.
05999	Aug 07 1491 B.C.E.	05:03:41	1777053.7108906	-1491	Aug 07 14:40:43	034622	LPU	Asc.	0.3042	2.2763	1.3231	312	196	077	20.2S	75.5W	13 05 1491 B.C.E.
06000	Jan 31 1490 B.C.E.	18:12:15	1777231.2585069	-1490	Feb 01 03:48:56	034601	LNN	Dec.	-1.1740	0.7501	-0.3415	253	---	---	19.7N	91.1E	14 11 1490 B.C.E.
06001	Jul 27 1490 B.C.E.	21:38:55	1777408.4020275	-1490	Jul 28 07:15:36	034601	LNN	Asc.	0.1234	0.9609	-0.0007	242	---	---	21.4S	35.1E	14 04 1490 B.C.E.
06002	Dec 22 1490 B.C.E.	04:41:52	1777555.6957351	-1490	Dec 22 14:18:33	034601	LNN	Dec.	0.1554	0.9408	-0.0974	258	---	---	24.3N	70.1W	13 09 1490 B.C.E.
06003	Jun 16 1489 B.C.E.	23:31:30	1777733.4802052	-1489	Jun 17 09:07:49	034580	LPU	Asc.	-0.8604	1.2939	0.2648	297	118	---	23.3S	4.8E	15 03 1489 B.C.E.
06004	Dec 10 1489 B.C.E.	16:09:38	1777910.1733583	-1489	Dec 11 01:45:59	034580	LTU	Dec.	0.3258	2.2541	1.2664	319	201	071	22.2N	116.8E	13 09 1489 B.C.E.
06005	Jun 06 1488 B.C.E.	02:48:07	1778087.6167523	-1488	Jun 06 12:24:06	034559	LPU	Asc.	-0.1044	2.6998	1.6337	373	234	104	20.8S	44.6W	14 03 1488 B.C.E.
06006	Nov 30 1488 B.C.E.	07:31:56	1778264.8138384	-1488	Nov 30 17:07:55	034559	LTU	Dec.	-0.3426	2.2153	1.2432	312	195	068	19.4N	114.6W	14 09 1488 B.C.E.
06007	May 26 1487 B.C.E.	03:31:55	1778441.6471630	-1487	May 26 13:07:33	034538	LPU	Asc.	0.6582	1.6791	0.6220	336	176	---	17.5S	55.3W	13 02 1487 B.C.E.
06008	Nov 19 1487 B.C.E.	22:11:06	1778619.4243786	-1487	Nov 20 07:46:44	034538	LNN	Dec.	-1.0311	0.9670	-0.0347	249	---	---	15.8N	25.2E	15 08 1487 B.C.E.
06009	Apr 15 1486 B.C.E.	23:16:04	1778796.4694901	-1486	Apr 16 08:51:20	034516	LNN	Asc.	-1.2500	0.5563	-0.4275	199	---	---	5.8S	11.0E	13 01 1486 B.C.E.
06010	May 15 1486 B.C.E.	08:58:42	1778974.8740928	-1486	May 15 18:33:58	034516	LNN	Asc.	1.3833	0.3244	-0.6846	161	---	---	13.6S	136.4W	13 02 1486 B.C.E.
06011	Oct 10 1486 B.C.E.	14:53:50	1778944.1207138	-1486	Oct 11 00:29:05	034516	LNN	Dec.	1.1525	0.7847	-0.2972	253	---	---	2.7N	134.9E	14 07 1486 B.C.E.
06012	Apr 04 1485 B.C.E.	14:19:44	1779211.0970347	-1485	Apr 04 23:54:39	034495	LTU	Asc.	-0.4725	1.9646	1.0169	304	182	019	1.0S	146.5E	13 01 1485 B.C.E.
06013	Sep 28 1485 B.C.E.	14:45:04	1779298.1146293	-1485	Sep 29 00:19:59	034495	LPU	Dec.	0.4826	2.0230	0.9228	361	205	---	2.5S	137.9E	13 07 1485 B.C.E.
06014	Mar 25 1484 B.C.E.	07:22:11	1779475.8070676	-1484	Mar 25 16:56:44	034474	LTU	Asc.	0.2560	2.3644	1.4118	316	200	084	3.8N	107.8W	14 13 1484 B.C.E.
06015	Sep 17 1484 B.C.E.	15:34:01	1779652.1486253	-1484	Sep 18 01:08:37	034474	LTU	Dec.	-0.2236	2.4812	1.4150	360	224	090	7.5S	126.5E	12 06 1484 B.C.E.
06016	Jun 14 1483 B.C.E.	21:43:28	1779830.4501905	-1483	Jun 15 07:17:41	034453	LNN	Asc.	1.0262	0.9737	-0.0236	255	---	---	8.6N	38.1E	15 12 1483 B.C.E.
06017	Sep 06 1483 B.C.E.	23:16:45	1780006.4699692	-1483	Sep 07 08:50:59	034453	LPU	Dec.	-0.9182	1.1765	0.1702	273	092	---	12.3S	11.5E	13 06 1483 B.C.E.
06018	Feb 02 1482 B.C.E.	13:34:54	1780355.0688997	-1482	Feb 02 23:08:45	034432	LNN	Asc.	-1.0501	0.9740	-0.1107	280	---	---	19.3N	160.8E	14 11 1482 B.C.E.
06019	Jul 29 1482 B.C.E.	05:06:53	1780511.7131188	-1482	Jul 29 14:40:46	034432	LNN	Asc.	1.0049	0.9886	0.0394	241	043	---	21.1S	76.6W	14 04 1482 B.C.E.
06020	Jan 22 1481 B.C.E.	13:07:09	1780509.0466346	-1481	Jan 22 22:40:41	034411	LTU	Asc.	-0.3496	2.2618	1.1721	366	219	065	22.1N	167.1E	13 10 1481 B.C.E.
06021	Jul 17 1481 B.C.E.	21:17:52	1780686.3874029	-1481	Jul 18 06:51:21	034411	LTU	Dec.	0.2998	2.2931	1.3227	321	203	078	23.1S	40.1E	15 04 1481 B.C.E.
06022	Jan 10 1480 B.C.E.	16:06:49	1780863.7174046	-1480	Jan 11 01:40:03	034391	LTU	Asc.	0.3661	2.2105	1.1627	345	210	061	23.9N	121.1E	13 10 1480 B.C.E.
06023	Jul 07 1480 B.C.E.	08:53:57	1781040.8707982	-1480	Jul 07 18:27:06	034391	LPU	Dec.	-0.4710	2.0043	0.9836	334	200	---	24.3S	134.7W	14 04 1480 B.C.E.
06024	Dec 31 1480 B.C.E.	02:15:48	1781217.5943060	-1480	Dec 31 11:49:00	034391	LNN	Asc.	1.0361	0.9542	-0.0402	247	---	---	24.9N	32.6W	13 10 1480 B.C.E.
06025	May 27 1479 B.C.E.	22:36:14	1781365.4418332	-1479	May 28 08:09:04	034370	LNN	Asc.	1.5698	0.0120	-1.0560	034	---	---	17.2S	19.0E	14 02 1479 B.C.E.
06026	Jun 26 1479 B.C.E.	13:22:37	1781395.0573697	-1479	Jun 26 22:55:27	034370	LNN	Dec.	-1.2686	0.5624	-0.5012	220	---	---	24.6S	157.3E	13 03 1479 B.C.E.
06027	Nov 21 1479 B.C.E.	06:37:48	1781591.7272535	-1479	Nov 21 16:10:38	034370	LNN	Asc.	-1.0103	0.9924	0.0160	244	028	---	16.3N	101.2W	14 08 1479 B.C.E.
06028	May 17 1478 B.C.E.	00:01:52	1781719.5012994	-1478	May 17 09:34:22	034349	LPU	Dec.	0.7946	1.4232	0.3771	314	141	---	14.8S	2.3W	13 02 1478 B.C.E.
06029	Nov 10 1478 B.C.E.	20:13:27	1781879.3426682	-1478	Nov 11 05:45:54	034349	LNN	Asc.	-0.3623	2.2019	1.1849	329	204	063	13.5N	54.4E	15 08 1478 B.C.E.
06030	May 05 1477 B.C.E.	07:29:58	1782073.8124734	-1477	May 05 17:02:07	034328	LTU	Dec.	-0.0109	2.8350	1.8411	340	221	103	12.0S	113.9W	13 02 1477 B.C.E.
06031	Oct 30 1477 B.C.E.	03:36:43	1782251.6505016	-1477	Oct 30 13:08:50	034328	LPU	Asc.	0.3425	2.2669	1.1929	356	215	067	10.1N	56.6W	14 08 1477 B.C.E.
06032	Apr 24 1476 B.C.E.	21:39:39	1782428.405318	-1476	Apr 25 07:11:25	034306	LPU	Dec.	-0.7586	1.4409	0.4907	280	135	---	8.9S	34.2E	14 01 1476 B.C.E.
06033	Oct 19 1476 B.C.E.	04:13:11	1782605.6758213	-1476	Oct 19 13:44:57	034306	LNN	Asc.	1.0445	0.9942	-0.1102	285	---	---	6.2N	65.6W	14 07 1476 B.C.E.
06034	Mar 16 1475 B.C.E.	07:17:00	1782753.8034667	-1475	Mar 16 16:48:24	034285	LNN	Dec.	1.0562	0.9017	-0.0617	237	---	---	8.0N	105.2W	14 12 1475 B.C.E.
06035	Apr 14 1475 B.C.E.	14:49:27	1782783.1176692	-1475	Apr 15 00:20:52	034285	LNN	Dec.	-1.4688	0.1347	-0.8092	197	---	---	5.6S	137.5E	14 01 1475 B.C.E.
06036	Sep 08 1475 B.C.E.	11:55:34	1782929.9992300	-1475	Sep 08 21:27:00	034285	LNN	Asc.	-1.2255	0.6334	-0.4141	223	---	---	11.9S	178.0W	13 06 1475 B.C.E.
06037	Mar 05 1474 B.C.E.	20:00:34	1783108.3337262	-1474	Mar 05 06:31:36	034264	LTU	Dec.	0.3466	2.2302	1.2140	338	210	068	11.3N	64.4E	15 12 1474 B.C.E.
06038	Aug 28 1474 B.C.E.	21:50:44	1783284.4102329	-1474	Aug 29 07:21:50	034264	LTU	Asc.	-0.4550	2.0175	1.0288	317	192	026	15.0S	33.2E	13 06 1474 B.C.E.
06039	Feb 23 1473 B.C.E.	01:29:40	1783462.5622712	-1473	Feb 23 11:00:22	034243	LPU	Dec.	-0.4079	2.1452	1.0745	357	213	044	14.4N	17.8W	14 12 1473 B.C.E.
06040	Aug 17 1473 B.C.E.	13:12:20	1783639.5002366	-1473	Aug 17 22:43:04	034243	LTU	Asc.	0.2610	2.3568	1.4012	314	199	083	17.5S	162.6E	13 05 1473 B.C.E.
06041	Feb 11 1472 B.C.E.	11:35:33	1783816.5663494	-1472	Feb 11 11:05:55	034222	LNN	Dec.	-1.1340	0.8214	-0.2660	263	---	---	17.1N	19.4W	14 11 1472 B.C.E.
06042	Aug 07 1472 B.C.E.	05:33:34	1783993.7316435	-1472	Aug 07 15:03:56	034222	LPU	Asc.	0.9763	1.0498	0.0831	252	048	---	19.4S	83.1W	14 05 1472 B.C.E.
06043	Jan 01 1471 B.C.E.	13:07:39	1784141.0469832	-1471	Jan 01 22:37:41	034201	LNN	Dec.	1.0609	0.9280	-0.1048	256	---	---	24.9N	164.9E	15 12 1471 B.C.E.
06044	Jun 28 1471 B.C.E.	06:25:24	1784318.7676445	-1471	Jun 28 15:55:25	034201	LPU	Asc.	-0.9387	1.1528	0.1187	286	081	---	24.5S	98.1W	15 03 1471 B.C.E.
06045	Dec 22 1471 B.C.E.	01:00:11	1784495.4417897	-1471	Dec 22 10:30:13	034201	LPU	Dec.	0.3281	2.2481	1.2639</						

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)	Year	Month	Day	Time (UT)	Delta T (seconds)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations (Pen. Par. Tot.)	Lat.	Lon.	Day	Month	Year						
06100	Feb	24	1446	B.C.E.	04:14:46	1933225	6769245	-1446	Feb	24	13:36:08	033681	LNN	Asc.	-1.1401	0.8067	-0.2737	259	---	---	13.2N	59.2W	14	12	1446	B.C.E.
06101	Aug	19	1446	B.C.E.	21:17:13	1935032	3869586	-1446	Aug	20	06:38:34	033681	LNN	Dec.	-1.0938	0.8286	-0.1268	225	---	---	16.2S	41.3E	14	05	1446	B.C.E.
06102	Sep	18	1446	B.C.E.	06:20:47	1935351	7644331	-1446	Sep	18	15:42:08	033681	LNN	Dec.	-1.5048	0.0796	-0.8862	075	---	---	8.7S	94.8W	13	06	1446	B.C.E.
06103	Feb	13	1445	B.C.E.	04:07:33	1933679	6719068	-1445	Feb	13	13:28:34	033660	LTU	Asc.	-0.4207	2.1261	1.0467	359	212	035	17.2N	57.1W	13	11	1445	B.C.E.
06104	Aug	08	1445	B.C.E.	12:51:23	1938575	0356808	-1445	Aug	08	22:12:22	033660	LTU	Dec.	0.4068	2.1024	1.1208	319	196	051	19.6S	167.7E	14	05	1445	B.C.E.
06105	Feb	01	1444	B.C.E.	08:10:44	1944033	8407833	-1444	Feb	01	17:31:25	033639	LTU	Asc.	0.3152	2.2973	1.2623	344	213	074	20.7N	118.1W	13	11	1444	B.C.E.
06106	Jul	28	1444	B.C.E.	23:21:24	1942111	4731953	-1444	Jul	29	08:42:01	033639	LTU	Dec.	-0.3467	2.2386	1.2054	346	213	068	22.4S	9.9E	15	05	1444	B.C.E.
06107	Jan	21	1443	B.C.E.	19:20:56	1943388	3062037	-1443	Jan	22	04:41:14	033618	LPU	Asc.	1.0006	1.0142	0.0299	251	026	---	23.4N	73.7E	13	11	1443	B.C.E.
06108	Jul	18	1443	B.C.E.	02:46:56	1945655	6159230	-1443	Jul	18	12:07:14	033618	LNN	Dec.	-1.1242	0.8316	-0.2403	262	---	---	24.4S	42.2W	14	04	1443	B.C.E.
06109	Dec	13	1443	B.C.E.	00:33:04	1947133	5229594	-1443	Dec	13	09:53:22	033618	LNN	Dec.	-1.0150	0.9841	0.0068	244	018	---	21.3N	8.6W	14	09	1443	B.C.E.
06110	Jun	07	1442	B.C.E.	13:18:44	1948900	0546785	-1442	Jun	07	22:38:43	033598	LPU	Dec.	0.9585	1.1200	0.0789	286	067	---	20.1S	158.1E	13	03	1442	B.C.E.
06111	Dec	02	1442	B.C.E.	13:43:38	1950668	0719636	-1442	Dec	02	23:03:34	033598	LTU	Asc.	-0.3632	2.2029	1.1804	332	205	062	19.8N	152.7E	14	09	1442	B.C.E.
06112	May	26	1441	B.C.E.	21:44:10	1952444	4056763	-1441	May	27	07:03:50	033577	LTU	Dec.	0.1471	2.5814	1.5949	336	217	097	18.3S	31.5E	13	02	1441	B.C.E.
06113	Nov	20	1441	B.C.E.	20:18:50	1954222	3464114	-1441	Nov	21	05:38:25	033577	LTU	Asc.	0.3400	2.2748	1.1945	358	216	067	17.6N	53.0E	15	08	1441	B.C.E.
06114	May	16	1440	B.C.E.	12:35:54	1956599	4292827	-1440	May	16	21:55:11	033556	LPU	Dec.	-0.6081	1.7147	0.7692	294	164	---	16.1S	168.6E	13	02	1440	B.C.E.
06115	Nov	09	1440	B.C.E.	20:22:03	1959776	3486490	-1440	Nov	10	05:41:20	033556	LNT	Asc.	1.0318	1.0191	-0.0883	289	---	---	14.5N	51.7E	14	08	1440	B.C.E.
06116	Apr	06	1439	B.C.E.	22:37:00	1959224	4423580	-1439	Apr	07	07:55:55	033535	LNN	Dec.	1.1842	0.6668	-0.2966	210	---	---	0.4S	22.7E	15	01	1439	B.C.E.
06117	May	06	1439	B.C.E.	05:53:58	1959553	7458065	-1439	May	06	15:12:53	033535	LNN	Dec.	-1.3331	0.3837	-0.5604	160	---	---	13.4S	90.6W	14	02	1439	B.C.E.
06118	Sep	30	1439	B.C.E.	04:06:46	1961008	1613672	-1439	Sep	30	13:25:41	033535	LNN	Asc.	-1.2603	0.5693	-0.4778	211	---	---	3.4S	61.9W	13	07	1439	B.C.E.
06119	Mar	27	1438	B.C.E.	10:49:18	1962778	9508986	-1438	Mar	27	20:07:50	033514	LPU	Dec.	0.4696	2.0052	0.9877	333	199	---	3.2N	159.6W	14	13	1438	B.C.E.
06120	Sep	19	1438	B.C.E.	14:30:44	1964561	1046755	-1438	Sep	19	23:49:19	033514	LPU	Asc.	-0.5048	1.9264	0.9370	312	185	---	7.1S	142.4E	12	06	1438	B.C.E.
06121	Mar	15	1437	B.C.E.	15:42:08	1966633	1542595	-1437	Mar	16	01:00:21	033494	LTU	Dec.	-0.2922	2.3564	1.2881	365	224	080	6.8N	127.9E	15	12	1437	B.C.E.
06122	Sep	08	1437	B.C.E.	05:54:46	1968099	7463635	-1437	Sep	08	15:13:00	033494	LTU	Asc.	0.1954	2.4798	1.5189	316	202	090	10.5S	88.4W	13	06	1437	B.C.E.
06123	Mar	04	1436	B.C.E.	15:54:19	1969887	1627187	-1436	Mar	05	01:12:13	033473	LNT	Dec.	-1.0301	1.0075	-0.0709	284	---	---	10.3N	125.4E	14	12	1436	B.C.E.
06124	Aug	28	1436	B.C.E.	21:44:57	1971644	4056763	-1436	Aug	29	07:02:50	033473	LPU	Asc.	0.9019	1.1917	0.2144	266	094	---	13.5S	34.1E	14	06	1436	B.C.E.
06125	Jan	23	1435	B.C.E.	05:40:54	1973111	7367373	-1435	Jan	23	14:58:26	033452	LNN	Dec.	1.0888	0.8707	-0.1500	247	---	---	23.1N	81.0W	13	11	1435	B.C.E.
06126	Jul	19	1435	B.C.E.	20:24:38	1974811	3504382	-1435	Jul	20	05:42:11	033452	LNN	Asc.	-1.0827	0.8944	-0.1510	261	---	---	24.2S	53.7E	15	04	1435	B.C.E.
06127	Jan	12	1434	B.C.E.	18:24:31	1977666	2670238	-1434	Jan	13	03:41:44	033432	LTU	Dec.	0.3488	2.2060	1.2299	315	197	067	23.8N	86.9E	14	10	1434	B.C.E.
06128	Jul	08	1434	B.C.E.	22:23:05	1978443	4423702	-1434	Jul	09	07:40:17	033432	LTU	Asc.	-0.3521	2.2494	1.1752	366	221	066	24.2S	22.3E	14	04	1434	B.C.E.
06129	Jan	02	1433	B.C.E.	10:15:41	1980200	9275560	-1433	Jan	02	19:32:31	033411	LTU	Dec.	-0.3304	2.2363	1.2670	313	196	071	23.5N	152.2W	14	10	1433	B.C.E.
06130	Jun	26	1433	B.C.E.	23:19:30	1981977	4718757	-1433	Jun	27	08:36:23	033411	LTU	Asc.	0.4050	2.1262	1.0882	354	213	047	23.2S	8.4E	13	03	1433	B.C.E.
06131	Dec	22	1433	B.C.E.	00:33:34	1983755	5233112	-1433	Dec	22	09:50:25	033411	LNN	Dec.	-1.0366	0.9594	-0.0473	251	---	---	22.4N	7.9W	15	09	1433	B.C.E.
06132	May	17	1432	B.C.E.	21:03:23	1985222	3773543	-1432	May	18	06:19:54	033391	LNN	Asc.	-1.4536	0.1764	-0.7951	115	---	---	17.4S	41.6E	13	02	1432	B.C.E.
06133	Jun	16	1432	B.C.E.	06:04:33	1985751	7531542	-1432	Jun	16	15:21:04	033391	LNN	Asc.	1.1409	0.7647	-0.2353	233	---	---	21.4S	93.4W	13	03	1432	B.C.E.
06134	Nov	11	1432	B.C.E.	15:28:00	1987000	1444225	-1432	Nov	12	00:44:30	033391	LNN	Dec.	1.1743	0.7502	-0.3425	250	---	---	15.4N	125.3E	15	08	1432	B.C.E.
06135	May	07	1431	B.C.E.	13:02:09	1988777	0431548	-1431	May	07	22:18:19	033370	LPU	Asc.	-0.6804	1.5797	0.6390	285	150	---	13.3S	162.7E	13	02	1431	B.C.E.
06136	Oct	31	1431	B.C.E.	14:40:20	1990544	1113403	-1431	Oct	31	23:56:30	033370	LPU	Dec.	0.5141	1.9676	0.8629	358	200	---	10.7N	137.5E	13	08	1431	B.C.E.
06137	Apr	27	1430	B.C.E.	06:09:51	1992311	7568424	-1430	Apr	27	15:25:38	033349	LTU	Asc.	0.0553	2.7328	1.7801	322	208	100	8.9S	93.1W	14	01	1430	B.C.E.
06138	Oct	20	1430	B.C.E.	16:01:00	1994088	1673592	-1430	Oct	21	01:16:51	033349	LTU	Dec.	-0.1819	2.5572	1.4921	358	224	094	5.8N	117.9E	13	07	1430	B.C.E.
06139	May	15	1429	B.C.E.	19:48:02	1995866	3250210	-1429	Apr	16	05:03:29	033328	LPU	Asc.	0.8419	1.3138	0.3128	288	124	---	4.3S	63.6E	15	01	1429	B.C.E.
06140	Oct	09	1429	B.C.E.	00:35:07	1997643	4523885	-1429	Oct	09	09:50:36	033328	LPU	Dec.	-0.8604	1.2821	0.2766	280	114	---	0.7N	9.9W	13	07	1429	B.C.E.
06141	Mar	06	1428	B.C.E.	11:18:26	1999410	9711385	-1428	Mar	06	20:33:35	033308	LNN	Asc.	-1.1971	0.7010	-0.3772	245	---	---	9.4N	165.7W	14	12	1428	B.C.E.
06142	Aug	30	1428	B.C.E.	05:35:12	2000087	3727786	-1428	Aug	30	14:50:20	033308	LNN	Dec.	1.1276	0.7683	-0.1906	218	---	---	12.8S	83.4W	14	06	1428	B.C.E.
06143	Sep	28	1428	B.C.E.	15:00:29	2001177	1253348	-1428	Sep	29	00:15:37	033308	LNN	Dec.	-1.4877	0.1119	-0.8556	089	---	---	4.3S	134.6E	13	07</		

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Month	Day	Hour	Minute			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year							
06207	Feb	13	1399	B.C.E.	21:44:56	1210482.4062029	-1399	Feb	14	06:50:09	032713	LNN	Dec.	1.1436	0.7636	-0.2441	232	---	---	18.2N	39.1E	13	11	1399	B.C.E.
06208	Aug	10	1399	B.C.E.	10:46:59	1210659.9492895	-1399	Aug	10	19:52:11	032713	LNN	Asc.	-1.2034	0.6792	-0.3786	235	---	---	20.6S	160.7W	14	05	1399	B.C.E.
06209	Feb	03	1398	B.C.E.	11:21:39	1210836.9733686	-1398	Feb	03	20:26:32	032692	LNU	Dec.	0.3939	2.1186	-1.1516	311	192	056	20.3N	165.6W	13	11	1398	B.C.E.
06210	Jul	30	1398	B.C.E.	11:56:00	1211013.9972240	-1398	Jul	30	21:00:52	032692	LPU	Asc.	-0.4918	1.9964	0.9158	358	205	---	22.3S	178.6W	13	05	1398	B.C.E.
06211	Jan	24	1397	B.C.E.	03:33:45	1211191.6484380	-1397	Jan	24	12:38:16	032672	LNU	Dec.	-0.2976	2.2949	1.3288	315	198	077	21.7N	49.5W	14	11	1397	B.C.E.
06212	Jul	18	1397	B.C.E.	13:03:56	1211368.0443925	-1397	Jul	18	22:08:29	032672	LNU	Asc.	0.2583	2.4110	1.3575	360	224	086	23.0S	163.6E	13	04	1397	B.C.E.
06213	Jan	12	1396	B.C.E.	17:40:40	1211546.2365762	-1396	Jan	12	02:44:50	032651	LNN	Dec.	-1.0211	0.9884	-0.0194	255	---	---	22.4N	97.6E	15	10	1396	B.C.E.
06214	Jul	07	1396	B.C.E.	20:33:33	1211722.3566343	-1396	Jul	07	05:37:45	032651	LPU	Asc.	0.9933	1.0338	0.0370	262	042	---	22.9S	50.4E	13	04	1396	B.C.E.
06215	Dec	03	1396	B.C.E.	07:55:31	1211870.8302236	-1396	Dec	03	16:59:42	032651	LNN	Dec.	1.1818	0.7380	-0.3579	249	---	---	21.6N	120.5W	14	09	1396	B.C.E.
06216	May	29	1395	B.C.E.	04:01:19	1212047.6675800	-1395	May	29	13:05:10	032631	LPU	Asc.	-0.8275	1.3092	0.3697	267	114	---	19.8S	63.0W	14	02	1395	B.C.E.
06217	Nov	22	1395	B.C.E.	06:56:57	1212224.7895493	-1395	Nov	22	16:00:49	032631	LPU	Asc.	0.5196	1.9571	0.8532	357	199	---	18.1N	106.5W	13	08	1395	B.C.E.
06218	May	18	1394	B.C.E.	20:59:56	1212402.3749538	-1394	May	18	06:03:25	032610	LNU	Dec.	-0.0943	2.6628	1.7068	323	209	099	16.3S	42.8E	15	02	1394	B.C.E.
06219	Nov	11	1394	B.C.E.	08:51:01	1212578.8687630	-1394	Nov	11	17:54:33	032610	LNU	Dec.	-0.1766	2.5651	1.5036	356	223	094	14.0N	135.1W	13	08	1394	B.C.E.
06220	May	07	1393	B.C.E.	09:57:22	1212756.9148360	-1393	May	07	19:00:31	032590	LPU	Asc.	0.6956	1.5846	0.5788	309	163	---	12.2S	150.8W	14	02	1393	B.C.E.
06221	Oct	30	1393	B.C.E.	18:02:08	1212933.2514763	-1393	Oct	31	03:05:18	032590	LPU	Dec.	-0.8477	1.3043	0.3010	280	118	---	9.4N	87.4E	13	08	1393	B.C.E.
06222	Mar	28	1392	B.C.E.	01:00:10	1213081.5417804	-1392	Mar	28	10:02:59	032569	LNN	Asc.	-1.3293	0.4562	-0.6177	202	---	---	1.1N	13.1W	14	13	1392	B.C.E.
06223	Apr	26	1392	B.C.E.	15:48:17	1213111.1585348	-1392	Apr	27	00:51:05	032569	LNN	Asc.	1.5129	0.1103	-0.9456	101	---	---	7.7S	122.6E	14	01	1392	B.C.E.
06224	Sep	20	1392	B.C.E.	22:33:08	1213258.4396730	-1392	Sep	21	07:35:57	032569	LNN	Dec.	1.1768	0.6817	-0.2844	208	---	---	4.7S	21.1E	14	06	1392	B.C.E.
06225	Oct	20	1392	B.C.E.	08:38:12	1213287.8598614	-1392	Oct	20	17:41:00	032569	LNN	Dec.	-1.4689	0.1477	-0.8225	102	---	---	4.7N	131.1W	13	07	1392	B.C.E.
06226	Mar	17	1391	B.C.E.	01:35:12	1213435.5661080	-1391	Mar	17	10:37:42	032549	LPU	Asc.	-0.5812	1.8234	0.7604	343	189	---	6.0N	20.5W	13	12	1391	B.C.E.
06227	Sep	10	1391	B.C.E.	13:04:01	1213613.1044566	-1391	Sep	10	22:06:29	032549	LPU	Dec.	0.5170	1.9093	0.9096	316	187	---	9.4S	164.1E	14	06	1391	B.C.E.
06228	Mar	06	1390	B.C.E.	07:21:11	1213789.8063765	-1390	Mar	06	16:23:21	032528	LNU	Asc.	0.1874	2.5217	1.5068	343	219	094	10.8N	106.0W	13	12	1390	B.C.E.
06229	Aug	30	1390	B.C.E.	21:51:53	1213967.4110252	-1390	Aug	31	06:53:58	032528	LNU	Dec.	-0.2088	2.5017	1.4487	357	223	092	13.9S	32.7E	15	06	1390	B.C.E.
06230	Feb	23	1389	B.C.E.	20:02:09	1214144.3948287	-1389	Feb	24	05:03:57	032508	LPU	Asc.	0.8988	1.1929	0.2245	264	094	---	15.1N	64.5E	14	12	1389	B.C.E.
06231	Aug	18	1389	B.C.E.	23:48:01	1214241.4916819	-1389	Aug	19	08:49:49	032509	LNU	Dec.	-0.9525	1.1535	-0.0600	300	064	---	18.0S	4.0E	14	05	1389	B.C.E.
06232	Jan	14	1388	B.C.E.	02:51:56	1214469.6193956	-1388	Jan	14	11:53:23	032488	LNN	Asc.	-1.0484	0.9221	-0.0536	239	---	---	22.2N	39.8W	14	10	1388	B.C.E.
06233	Jul	09	1388	B.C.E.	09:51:47	1214645.9109656	-1388	Jul	09	18:53:15	032488	LNN	Asc.	1.1776	0.7160	-0.3208	236	---	---	22.7S	148.8W	13	04	1388	B.C.E.
06234	Jan	03	1387	B.C.E.	15:30:44	1214824.1463390	-1387	Jan	04	00:31:50	032468	LNU	Dec.	-0.3825	2.1697	1.1429	334	205	056	23.5N	129.3E	15	10	1387	B.C.E.
06235	Jun	28	1387	B.C.E.	19:30:43	1215000.3129919	-1387	Jun	29	04:31:52	032468	LNU	Dec.	0.3691	2.1706	1.1907	324	201	063	23.3S	65.7E	13	04	1387	B.C.E.
06236	Dec	23	1387	B.C.E.	21:05:56	1215178.3791212	-1387	Dec	24	06:07:02	032448	LNU	Asc.	0.3284	2.2979	1.2138	362	218	070	23.8N	44.1E	15	10	1387	B.C.E.
06237	Jun	18	1386	B.C.E.	11:04:29	1215354.9614414	-1386	Jun	18	20:05:16	032447	LNU	Dec.	-0.3834	2.1261	1.1825	308	190	061	23.1S	168.4W	13	03	1386	B.C.E.
06238	Dec	12	1386	B.C.E.	20:42:24	1215532.3627814	-1386	Dec	13	05:43:12	032447	LNT	Asc.	1.0186	1.0423	-0.0630	291	---	---	23.1N	48.5E	14	09	1386	B.C.E.
06239	May	08	1385	B.C.E.	20:50:53	1215680.3686736	-1385	May	09	05:51:20	032427	LNN	Dec.	1.4077	0.2589	-0.7089	317	---	---	12.1S	46.2E	15	02	1385	B.C.E.
06240	Jun	07	1385	B.C.E.	04:15:39	1215709.6775304	-1385	Jun	07	13:16:06	032427	LNN	Dec.	-1.1201	0.7772	-0.1721	221	---	---	22.2S	66.8W	14	03	1385	B.C.E.
06241	Nov	01	1385	B.C.E.	05:22:01	1215856.7236186	-1385	Nov	01	14:22:27	032427	LNN	Asc.	-1.2713	0.5472	-0.4961	206	---	---	9.7N	82.3W	13	08	1385	B.C.E.
06242	Oct	28	1384	B.C.E.	08:00:31	1216034.8336878	-1384	Oct	28	17:00:36	032407	LPU	Dec.	0.6965	1.5914	0.5689	316	164	---	9.1S	120.7W	14	01	1384	B.C.E.
06243	Oct	21	1384	B.C.E.	16:30:24	1216211.1877779	-1384	Oct	21	01:30:32	032407	LPU	Dec.	-0.5347	1.8714	0.8824	307	180	---	6.2N	110.6E	13	07	1384	B.C.E.
06244	Jul	17	1383	B.C.E.	11:53:44	1216388.9956435	-1383	Jul	17	20:53:28	032386	LNU	Dec.	-0.0670	2.7684	1.7024	372	235	105	5.7S	178.2W	14	01	1383	B.C.E.
06245	Oct	11	1383	B.C.E.	07:54:47	1216565.8297086	-1383	Oct	11	16:54:33	032386	LNU	Asc.	0.1442	2.5775	1.6091	318	205	094	2.5N	130.3W	13	07	1383	B.C.E.
06246	Apr	06	1382	B.C.E.	12:22:42	1216743.0157691	-1382	Apr	06	21:22:09	032366	LPU	Dec.	-0.8209	1.3847	0.3195	317	133	---	2.0S	175.4E	14	01	1382	B.C.E.
06247	Sep	30	1382	B.C.E.	22:56:20	1216920.4557819	-1382	Oct	01	07:55:45	032366	LPU	Asc.	0.8391	1.3150	0.3217	278	120	---	1.2S	14.6E	14	07	1382	B.C.E.
06248	Feb	25	1381	B.C.E.	05:34:55	1217067.7325818	-1381	Feb	25	14:34:00	032345	LNN	Dec.	1.1818	0.6901	-0.3110	221	---	---	14.8N	78.5E	12	12	1381	B.C.E.
06249	Mar	25	1381	B.C.E.	16:51:11	1217097.2022055	-1381	Mar	26	01:50:15	032345	LNN	Dec.	-1.5235	0.0737	-0.9482	079	---	---	1.7N	109.1E	14	13	1381	B.C.E.
06250	Aug	20	1381	B.C.E.	18:09:49	1217245.2568132	-1381	Aug	21	03:08:52	032345	LNN	Asc.	-1.2528	0.5916	-0.4724	222	---	---	17.7S	88.8E	15	05	1381	B.C.E.
06251	Jul	13	1380	B.C.E.	19:37:33	1217422.3177470	-1380	Jul	14	04:36:19	032325	LNU	Dec.	0.4276	2.0546	1.0921	309	188	044	17.5N	70.7E	14	11		

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)	(TD)	Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar				
												Pen.	Par.		Lat.	Lon.	Day	Month	Year		
06314	Mar 27 1354	B. C. E.	22:13:44	1226960	4262057	-1354	Mar 28	07:03:46	031800	LTU	Asc.	0.0692	2.7322	1.7300	342	222	101	2.4N	29.0E	13 13 1354	B. C. E.
06315	Sep 21 1354	B. C. E.	13:30:28	1227138	0628201	-1354	Sep 21	22:20:25	031800	LTU	Dec.	-0.1529	2.6105	1.5450	362	227	098	5.8S	157.1E	14 06 1354	B. C. E.
06316	Mar 16 1353	B. C. E.	11:51:58	1227314	9944242	-1353	Mar 16	20:41:39	031780	LPU	Asc.	0.7981	1.3727	0.4140	276	126	---	7.2N	174.3W	13 12 1353	B. C. E.
06317	Sep 09 1353	B. C. E.	14:32:25	1227492	1058340	-1353	Sep 09	23:22:05	031780	LPU	Dec.	-0.8737	1.3022	0.2084	315	110	---	10.7S	142.4E	13 06 1353	B. C. E.
06318	Feb 04 1352	B. C. E.	19:47:00	1227640	3243051	-1352	Feb 05	04:36:20	031760	LNN	Asc.	-1.0991	0.8282	-0.1457	229	---	---	18.3N	67.8E	15 11 1352	B. C. E.
06319	Mar 06 1352	B. C. E.	04:36:04	1227669	6917154	-1352	Mar 06	13:25:24	031760	LNN	Asc.	1.4865	0.1064	-0.8458	087	---	---	11.8N	64.4W	14 12 1352	B. C. E.
06320	Jul 31 1352	B. C. E.	00:13:19	1227816	5092527	-1352	Jul 31	09:02:39	031760	LNN	Dec.	1.2939	0.5020	-0.5338	201	---	---	20.4S	3.1W	13 05 1352	B. C. E.
06321	Aug 29 1352	B. C. E.	14:43:12	1227846	1133374	-1352	Aug 29	23:32:31	031760	LNN	Dec.	-1.5495	0.0506	-1.0202	068	---	---	15.3S	140.2E	13 06 1352	B. C. E.
06322	Jan 25 1351	B. C. E.	08:04:01	1227994	8361188	-1351	Jan 25	16:52:58	031739	LPU	Asc.	-0.4219	2.0978	1.0702	334	202	041	21.3N	116.9W	14 11 1351	B. C. E.
06323	Jul 20 1351	B. C. E.	10:32:17	1228170	9390864	-1351	Jul 20	19:21:17	031739	LPU	Dec.	0.4950	1.9388	0.9605	314	187	---	22.6S	158.3W	13 04 1351	B. C. E.
06324	Jan 14 1350	B. C. E.	13:05:57	1228349	0457958	-1350	Jan 14	21:54:34	031719	LPU	Asc.	0.2988	2.3518	1.2685	365	222	077	23.5N	166.7E	14 10 1350	B. C. E.
06325	Jul 10 1350	B. C. E.	02:21:04	1228525	5979625	-1350	Jul 10	11:09:43	031719	LPU	Dec.	-0.2475	2.3765	1.4309	314	199	085	24.1S	36.2W	14 04 1350	B. C. E.
06326	Jan 03 1349	B. C. E.	12:38:13	1228703	0265394	-1349	Jan 03	21:26:32	031699	LNT	Asc.	0.9948	1.0832	-0.0168	294	---	---	24.7N	172.2E	13 10 1349	B. C. E.
06327	Jun 28 1349	B. C. E.	19:15:13	1228880	3022326	-1349	Jun 29	04:03:32	031699	LPU	Dec.	-0.9847	1.0292	0.0730	249	037	---	24.7S	69.5E	15 04 1349	B. C. E.
06328	Nov 22 1348	B. C. E.	22:33:49	1229207	4401549	-1349	Nov 23	07:22:09	031699	LNN	Asc.	-1.2652	0.5558	-0.4821	206	---	---	16.9N	19.9E	13 09 1348	B. C. E.
06329	May 19 1348	B. C. E.	21:38:55	1229205	5345700	-1348	May 20	06:26:54	031679	LPU	Dec.	0.8655	1.2843	0.2561	297	116	---	16.0S	33.3E	15 02 1348	B. C. E.
06330	Nov 12 1348	B. C. E.	10:16:30	1229381	9281249	-1348	Nov 12	19:04:30	031679	LPU	Asc.	-0.5354	1.8690	0.8822	306	179	---	14.3N	156.3W	13 08 1348	B. C. E.
06331	May 09 1347	B. C. E.	00:49:47	1229559	5345700	-1347	May 09	09:37:25	031659	LPU	Dec.	0.1065	2.6960	1.6299	373	234	104	13.3S	14.1W	14 02 1347	B. C. E.
06332	Nov 02 1347	B. C. E.	01:43:02	1229736	5715495	-1347	Nov 02	10:30:40	031659	LPU	Asc.	0.1343	2.5976	1.6254	319	206	094	11.2N	28.2W	14 08 1347	B. C. E.
06333	Oct 28 1346	B. C. E.	01:34:32	1229913	5656525	-1346	Oct 28	10:21:52	031639	LPU	Dec.	-0.6559	1.6836	0.6259	336	176	---	10.0S	24.7W	13 01 1346	B. C. E.
06334	Apr 22 1346	B. C. E.	16:15:01	1230091	7170894	-1346	Apr 23	01:02:19	031639	LPU	Asc.	0.8264	1.3429	0.3404	282	125	---	7.7N	113.7E	15 07 1346	B. C. E.
06335	Mar 17 1345	B. C. E.	20:55:28	1230238	3718549	-1345	Mar 18	05:42:27	031618	LNN	Dec.	1.2762	0.5107	-0.4779	191	---	---	7.0N	50.0E	13 12 1345	B. C. E.
06336	Apr 16 1345	B. C. E.	07:06:21	1230267	7960793	-1345	Apr 16	15:53:19	031618	LNN	Dec.	-1.3769	0.3368	-0.6736	163	006	---	6.6S	107.0W	13 01 1345	B. C. E.
06337	Sep 11 1345	B. C. E.	09:17:39	1230415	8872521	-1345	Sep 11	18:04:36	031618	LNN	Asc.	-1.3310	0.4541	-0.6218	199	---	---	10.3S	138.7W	14 06 1345	B. C. E.
06338	Mar 07 1344	B. C. E.	11:48:33	1230592	9920463	-1344	Mar 07	20:35:11	031598	LPU	Dec.	0.5134	1.9827	0.9387	301	177	---	10.3N	172.8W	13 12 1344	B. C. E.
06339	Aug 31 1344	B. C. E.	09:22:40	1230769	8907369	-1344	Aug 31	18:09:18	031598	LPU	Asc.	-0.6457	1.7190	0.6285	345	178	---	13.8S	139.8W	13 06 1344	B. C. E.
06340	Feb 25 1343	B. C. E.	04:28:23	1230947	6863743	-1343	Feb 25	13:14:40	031578	LPU	Dec.	-0.1984	2.4745	1.5133	319	204	090	13.3N	62.5W	14 12 1343	B. C. E.
06341	Aug 20 1343	B. C. E.	10:50:22	1231123	9516436	-1343	Aug 20	19:36:42	031578	LPU	Dec.	0.0887	2.7228	1.6682	361	229	102	16.7S	161.9W	13 05 1343	B. C. E.
06342	Feb 14 1342	B. C. E.	18:15:05	1231202	2604692	-1342	Feb 15	03:01:03	031559	LPU	Dec.	-0.9502	1.1187	0.1106	270	075	---	16.0N	90.7E	15 11 1342	B. C. E.
06343	Aug 09 1342	B. C. E.	19:17:33	1231478	3038537	-1342	Aug 10	04:03:32	031559	LPU	Asc.	0.8134	1.3632	0.3680	287	130	---	18.9S	71.0E	13 05 1342	B. C. E.
06344	Jan 05 1341	B. C. E.	08:06:17	1231626	8377011	-1341	Jan 05	16:51:57	031539	LNN	Dec.	1.2139	0.6787	-0.4163	242	---	---	24.9N	139.3W	14 10 1341	B. C. E.
06345	Jun 30 1341	B. C. E.	02:42:45	1231803	6130233	-1341	Jun 30	11:28:24	031539	LNN	Asc.	-1.0375	0.9254	-0.0172	235	---	---	24.8S	42.1W	14 04 1341	B. C. E.
06346	Jul 29 1341	B. C. E.	10:03:05	1231802	9188058	-1341	Jul 29	18:48:43	031539	LNN	Asc.	-1.4822	0.1148	-0.8383	090	---	---	20.4S	150.9W	13 05 1341	B. C. E.
06347	Dec 24 1340	B. C. E.	07:16:02	1231980	8028012	-1340	Dec 24	16:01:41	031539	LPU	Dec.	0.5347	1.9255	0.8294	354	197	---	24.1N	108.2W	13 10 1340	B. C. E.
06348	Jan 19 1340	B. C. E.	19:07:20	1232158	2967610	-1340	Jan 20	03:52:38	031519	LPU	Dec.	-0.3197	2.2543	1.2884	321	201	075	23.3N	71.1E	15 03 1340	B. C. E.
06349	Dec 13 1340	B. C. E.	10:18:44	1232334	9296768	-1340	Dec 13	19:04:06	031519	LPU	Dec.	-0.1736	2.5652	1.5144	352	222	094	22.3N	155.2W	13 09 1340	B. C. E.
06350	Jun 09 1339	B. C. E.	06:46:27	1232512	7822519	-1339	Jun 09	15:31:24	031499	LPU	Dec.	0.4622	2.0188	1.0014	335	201	006	21.0S	104.0W	15 03 1339	B. C. E.
06351	Dec 02 1339	B. C. E.	20:35:26	1232689	3579423	-1339	Dec 03	05:20:26	031499	LPU	Dec.	-0.8441	1.3073	0.3110	277	118	---	19.6N	49.7E	13 09 1339	B. C. E.
06352	Apr 29 1338	B. C. E.	20:36:53	1232837	3589469	-1338	Apr 30	05:21:31	031478	LNN	Asc.	-1.5662	0.0192	-1.0499	043	---	---	11.5S	49.4E	14 01 1338	B. C. E.
06353	May 29 1338	B. C. E.	11:16:14	1232866	9660224	-1338	May 29	20:00:51	031478	LNN	Asc.	1.2681	0.5620	-0.4988	220	---	---	18.0S	171.3W	14 02 1338	B. C. E.
06354	Oct 24 1338	B. C. E.	00:50:36	1233014	5513399	-1338	Oct 24	09:35:14	031478	LNN	Dec.	1.2089	0.6275	-0.3481	202	---	---	8.7N	15.2W	14 07 1338	B. C. E.
06355	Nov 22 1338	B. C. E.	11:33:57	1233043	9819100	-1338	Nov 22	20:18:36	031478	LNN	Dec.	-1.4657	0.1542	-0.8173	104	---	---	16.3N	175.4W	13 08 1338	B. C. E.
06356	Apr 17 1337	B. C. E.	22:02:55	1233191	4186977	-1337	Apr 18	06:47:14	031458	LPU	Dec.	-0.7941	1.4250	0.3772	314	141	---	6.8S	29.1E	13 01 1337	B. C. E.
06357	Oct 12 1337	B. C. E.	14:18:54	1233369	0964635	-1337	Oct 12	23:03:11	031458	LPU	Dec.	0.5683	1.8237	0.8072	316	181	---	3.8N	143.4E	14 07 1337	B. C. E.
06358	Apr 07 1336	B. C. E.	05:33:27	1233545	7315660	-1336	Apr 07	14:17:27	031438	LPU	Dec.	0.0034	2.8501	1.8537	340	221	102	1.9S	82.1W	13 01 1336	B. C. E.
06359	Oct 01 1336	B. C. E.	21:29:18	1233723	3953466	-1336	Oct 02	06:13:14	031438	LPU	Dec.	-0.1342	2.6478	1.5766	364	228	099	1.3S	36.7E	15 07 1336	B. C. E.
06360	Mar 27 1335	B. C. E.	19:37:48	1233900	3179197	-1335	Mar 28	04:21:27	031418	LPU	Dec.	0.7396	1.4779	0.5235	282	140	---	2.9N	68.1E	14 13 1335	B. C. E.
06361	Sep 20 1335	B. C. E.	22:08:11	1234077	4223516	-1335	Sep 21	06:51:49	031418	LPU	Dec.	-0.8455	1.3559	0.2584							

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Month	Day	Time	Julian	Date (UT)	(TD)	Time		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations	Phase	Lat.	Lon.	Day	Month	Year						
06421	Nov	13	13:10	B.C.E.	09:47:08	1243261	9077363	-1310	Nov	13	18:22:28	030920	LPU	Asc.	0.8274	1.3448	0.3349	285	125	---	15.8N	149.6W	14	08	1310	B.C.E.
06422	Apr	08	13:09	B.C.E.	11:53:37	1243408	9955649	-1309	Apr	08	20:28:37	030900	LNN	Dec.	1.3915	0.2935	-0.6839	147	---	---	1.4S	176.7W	13	01	1309	B.C.E.
06423	May	07	13:09	B.C.E.	21:12:19	1243438	3835495	-1309	May	07	05:47:19	030900	LNN	Dec.	-1.2177	0.6241	-0.3767	214	---	---	14.3S	39.8E	13	02	1309	B.C.E.
06424	Oct	03	13:09	B.C.E.	00:56:34	1243586	6392821	-1309	Oct	03	09:31:33	030900	LNN	Asc.	-1.3812	0.3673	-0.7191	181	---	---	1.7S	14.6W	14	07	1309	B.C.E.
06425	Mar	29	13:08	B.C.E.	03:29:41	1243763	6456099	-1308	Mar	29	12:04:21	030880	LPU	Dec.	0.6257	1.6832	0.7363	291	160	---	2.1N	49.9W	14	13	1308	B.C.E.
06426	Sep	22	13:08	B.C.E.	00:28:49	1243940	5200066	-1308	Sep	22	09:03:29	030880	LPU	Asc.	-0.7089	1.6057	0.5097	338	164	---	5.7S	7.3W	14	06	1308	B.C.E.
06427	Mar	18	13:07	B.C.E.	20:21:05	1244118	3479732	-1307	Mar	18	04:55:24	030861	LPU	Dec.	-0.0975	2.6585	1.6995	322	208	098	5.5N	57.9E	15	12	1307	B.C.E.
06428	Sep	11	13:07	B.C.E.	02:14:15	1244294	5932269	-1307	Sep	11	10:48:38	030862	LPU	Dec.	0.0149	2.8586	1.8033	360	228	103	9.4S	33.4W	13	06	1307	B.C.E.
06429	Mar	08	13:06	B.C.E.	09:47:16	1244472	9078198	-1306	Mar	08	18:21:17	030842	LPU	Dec.	-0.8658	1.2737	0.2652	285	114	---	8.9N	143.1W	14	12	1306	B.C.E.
06430	Aug	31	13:06	B.C.E.	11:15:21	1244648	9689946	-1306	Aug	31	19:49:24	030842	LPU	Asc.	0.7291	1.5179	0.5225	295	151	---	12.7S	168.6W	12	06	1306	B.C.E.
06431	Jan	26	13:05	B.C.E.	23:35:15	1244797	4828090	-1305	Jan	27	08:08:57	030822	LNN	Dec.	1.2633	0.5861	-0.5051	227	---	---	22.5N	10.8E	14	11	1305	B.C.E.
06432	Jul	21	13:05	B.C.E.	18:12:00	1244974	2583291	-1305	Jul	22	02:45:41	030822	LNN	Asc.	-1.1594	0.7044	-0.2434	210	---	---	24.0S	87.2E	14	04	1305	B.C.E.
06433	Aug	20	13:05	B.C.E.	02:10:37	1245003	5907106	-1305	Aug	20	10:44:20	030822	LNN	Asc.	1.3901	0.2857	-0.6712	140	---	---	15.4S	32.5W	13	05	1305	B.C.E.
06434	Jan	14	13:04	B.C.E.	23:05:57	1245151	4624626	-1304	Jan	15	07:39:19	030802	LPU	Dec.	0.5657	1.8642	0.7767	349	191	---	23.6N	16.9E	14	10	1304	B.C.E.
06435	Jul	11	13:04	B.C.E.	10:02:01	1245328	9180724	-1304	Jul	11	18:35:22	030802	LPU	Asc.	-0.5657	2.0048	1.0293	316	191	026	24.2S	151.2W	14	04	1304	B.C.E.
06436	Jan	04	13:03	B.C.E.	03:05:19	1245505	6286905	-1303	Jan	04	11:38:23	030782	LPU	Dec.	-0.1571	2.5902	1.5497	349	221	096	23.7N	44.3W	13	10	1303	B.C.E.
06437	Jun	30	13:03	B.C.E.	20:39:24	1245683	3066941	-1303	Jul	01	05:12:24	030782	LPU	Asc.	0.3108	2.3017	1.2742	347	216	077	22.5S	48.7E	15	04	1303	B.C.E.
06438	Dec	24	13:03	B.C.E.	14:12:37	1245860	0920959	-1303	Dec	24	22:45:40	030782	LPU	Dec.	-0.8350	1.3204	0.3314	277	120	---	22.8N	147.5E	13	10	1303	B.C.E.
06439	Jun	20	13:02	B.C.E.	10:12:17	1246037	5085324	-1302	Jun	20	08:44:59	030762	LNN	Asc.	1.1024	0.8687	-0.1974	267	---	---	22.0S	5.1W	14	03	1302	B.C.E.
06440	Nov	14	13:02	B.C.E.	18:42:11	1246185	2729252	-1302	Nov	15	03:14:53	030762	LNN	Dec.	1.2138	0.6209	-0.3592	201	---	---	16.7N	76.7E	14	08	1302	B.C.E.
06441	Dec	14	13:02	B.C.E.	05:31:07	1246254	1299476	-1302	Dec	14	14:03:49	030762	LNN	Dec.	-1.4647	0.1554	-0.8147	104	---	---	21.0N	83.2W	14	09	1302	B.C.E.
06442	May	09	13:01	B.C.E.	11:25:47	1246361	9762432	-1301	May	09	19:58:09	030742	LPU	Asc.	-0.9514	1.1322	0.0928	287	072	---	14.6S	173.4W	13	02	1301	B.C.E.
06443	Nov	03	13:01	B.C.E.	07:33:16	1246539	8147731	-1301	Nov	03	16:05:37	030742	LPU	Dec.	0.5784	1.8097	0.7840	318	180	---	12.3N	116.0W	14	08	1301	B.C.E.
06444	Apr	28	13:00	B.C.E.	20:00:36	1246716	3337538	-1300	Apr	29	04:32:41	030722	LPU	Asc.	-0.1415	2.5915	1.6053	335	216	097	10.2S	58.9E	13	01	1300	B.C.E.
06445	Oct	23	13:00	B.C.E.	13:46:05	1246894	0736700	-1300	Oct	23	22:18:05	030722	LPU	Dec.	-0.1445	2.6887	1.6078	367	229	100	7.5N	151.3E	14	07	1300	B.C.E.
06446	Apr	18	12:59	B.C.E.	10:52:34	1247070	9531745	-1299	Apr	18	19:24:18	030703	LPU	Asc.	0.6071	1.7174	0.7701	294	164	---	5.6S	162.9W	13	01	1299	B.C.E.
06447	Oct	12	12:59	B.C.E.	13:44:19	1247248	0724462	-1299	Oct	12	22:16:02	030703	LPU	Dec.	-0.8087	1.4264	0.3231	326	134	---	2.4N	152.5E	13	07	1299	B.C.E.
06448	Mar	09	12:58	B.C.E.	20:00:03	1247396	3333672	-1298	Mar	10	04:31:26	030683	LNN	Asc.	-1.2286	0.5894	-0.3823	199	---	---	7.9N	63.6E	15	12	1298	B.C.E.
06449	Apr	08	12:58	B.C.E.	04:01:20	1247425	6675922	-1298	Apr	08	12:32:43	030683	LNN	Asc.	1.3255	0.3999	-0.5484	164	---	---	0.9S	58.7W	14	01	1298	B.C.E.
06450	Sep	01	12:58	B.C.E.	23:02:53	1247572	4603412	-1298	Sep	02	07:34:16	030683	LNN	Dec.	1.4115	0.2860	-0.7496	153	---	---	11.5S	145.5E	13	06	1298	B.C.E.
06451	Oct	01	12:58	B.C.E.	14:07:40	1247602	0886593	-1298	Oct	01	22:39:03	030683	LNN	Dec.	-1.4619	0.2123	-0.8604	138	---	---	2.7S	147.1E	13	07	1298	B.C.E.
06452	Feb	27	12:57	B.C.E.	07:38:55	1247750	8186933	-1297	Feb	27	16:09:56	030663	LPU	Asc.	-0.5359	1.8888	0.8609	329	190	---	12.4N	110.3W	15	12	1297	B.C.E.
06453	Aug	21	12:57	B.C.E.	10:09:22	1247926	9231707	-1297	Aug	21	18:40:25	030663	LPU	Asc.	0.6350	1.6823	0.7034	299	165	---	15.7S	151.7W	13	05	1297	B.C.E.
06454	Feb	15	12:56	B.C.E.	11:54:23	1248104	9960939	-1296	Feb	15	20:25:04	030643	LPU	Asc.	0.2008	2.5296	1.4505	370	229	094	16.6N	173.7W	14	11	1296	B.C.E.
06455	Aug	11	12:56	B.C.E.	02:04:37	1248281	5865450	-1296	Aug	11	10:35:20	030643	LPU	Dec.	-0.0846	2.6788	1.7264	318	205	097	19.3S	30.4W	14	05	1296	B.C.E.
06456	Feb	04	12:55	B.C.E.	11:38:34	1248458	9851210	-1295	Feb	04	20:08:57	030623	LPU	Asc.	0.9148	1.2237	0.3161	306	089	---	20.3N	169.8W	13	11	1295	B.C.E.
06457	Jul	31	12:55	B.C.E.	18:15:14	1248636	2605841	-1295	Aug	01	02:45:38	030624	LPU	Dec.	-0.8114	1.3544	0.3839	278	125	---	22.2S	86.6E	15	05	1295	B.C.E.
06458	Dec	26	12:55	B.C.E.	00:20:41	1248783	5143644	-1295	Dec	26	08:51:05	030624	LNN	Asc.	-1.2614	0.5561	-0.4688	203	---	---	22.5N	4.1W	13	10	1295	B.C.E.
06459	Jun	21	12:54	B.C.E.	17:53:59	1248961	2458267	-1294	Jun	22	02:24:04	030605	LNN	Dec.	1.1185	0.8261	-0.2144	253	---	---	22.1S	89.8E	15	03	1294	B.C.E.
06460	Dec	15	12:54	B.C.E.	13:02:13	1249138	0432108	-1294	Dec	15	21:32:19	030605	LPU	Asc.	-0.5344	1.8674	0.8874	304	178	---	22.2N	164.2E	13	09	1294	B.C.E.
06461	Jun	09	12:53	B.C.E.	20:00:30	1249315	3336807	-1293	Jun	10	04:30:15	030585	LPU	Dec.	0.3747	2.2054	1.1364	364	219	059	21.3S	57.6E	14	03	1293	B.C.E.
06462	Dec	04	12:53	B.C.E.	04:40:29	1249492	6947853	-1293	Dec	04	13:10:14	030585	LPU	Asc.	0.1335	2.6003	1.6258	320	206	094	21.0N	71.5W	14	09	1293	B.C.E.
06463	May	29	12:52	B.C.E.	21:12:40	1249669	3837939	-1292	May	30	05:42:06	030565	LPU	Dec.	-0.3935	2.1609	1.1117	354	214	053	19.8S	39.2E	14	03	1292	B.C.E.
06464	Nov	23	12:52	B.C.E.	18:35:06	1249847	2743786	-1292	Nov	24	03:04:30	030565	LPU	Asc.	0.8305	1.3406	0.3278	285	124	---	19.1N	78.8E	15	09	1292	B.C.E.
06465	Apr	19	12:51	B.C.E.	19:16:27	1249994	3030919	-1291	Apr	20	03:45:32	030545	LNN	Dec.	1.4551	0.1742	-0.7983	114	---	---	5.5S	71.5E	13	01	1291	B.C.E.
06466	May	19	12:51	B.C.E.	04:14:28	1250023	6767155	-1291	May	19	12:43:33	030545	LNN	Dec.	-1.1353	0.7733	-0.2235	234	---	---	17.6S	66.3W	13	02	1291	B.C.E.
06467	Oct	14	12:51	B.C.E.	08:55:44	1250171	8720357	-1291	Oct	14	17:24:49	030545	LNN	Asc.	-1.3976	0.3395	-0.7514	175	---	---	2.8N	135.1W	14	07	1291	B.C.E.
06468	Apr	09	12:50	B.C.E.	11:11:39	1250348	9664265	-1290	Apr	09	19:40:25	030525	LPU	Dec.	0.6893	1.5671	0.6210	284	148	---	2.1S	166.5W	13	01	1290	B.C.E.
06469	Oct	03	12:50	B.C.E.	08:15:18	1250525	8439579	-1290	Oct	03	16:44:04	030525	LPU	Dec.	-0.7301	1.5679	0.4698	335	158	---	1.3S	124.6W	13	07	1290	B.C.E.
06470	Mar	29	12:49	B.C.E.	04:05:32	1250703	6705099	-1289	Mar	29	12:33:56	030506														

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar					
	Month	Day	Time (UT)	Date (UT)	Date (UT)	Time (UT)	Pen.							Par.	Lat.	Lon.	Day	Month	Year				
06528	Jul	11	12:26:35	2454282.579322	-1266	Jul	11	21:44:20	030055	LPU	Asc.	0.9479	1.1556	0.0827	299	070	22.9S	158.3E	14	04	1266	B.C.E.	
06529	Dec	06	12:36:03	2454356.025075	-1266	Dec	06	20:56:58	030055	LNN	Dec.	1.2168	0.6166	-0.3661	202	---	22.5N	169.6E	14	09	1266	B.C.E.	
06530	Jan	04	23:14:04	2454385.4681057	-1265	Jan	05	07:34:40	030035	LNN	Dec.	-1.4531	0.1753	-0.7919	111	---	22.3N	13.4E	14	10	1266	B.C.E.	
06531	May	31	00:49:42	2454932.5345156	-1265	May	31	09:10:18	030035	LNN	Asc.	-1.1102	0.8376	-0.1953	253	---	20.8S	15.0W	13	03	1265	B.C.E.	
06532	Nov	25	00:55:01	2459710.5382046	-1265	Nov	25	09:15:35	030035	LPU	Dec.	0.5802	1.8098	0.7774	321	181	19.3N	15.9W	14	09	1265	B.C.E.	
06533	May	20	10:24:06	2459886.9334021	-1264	May	20	18:44:24	030016	LTU	Asc.	-0.2936	2.3084	1.3301	328	207	17.3S	158.3W	13	02	1264	B.C.E.	
06534	Nov	14	06:16:37	2460064.7615383	-1264	Nov	14	14:36:51	030016	LTU	Dec.	-0.1085	2.7032	1.6155	369	230	10.1S	96.6W	14	08	1264	B.C.E.	
06535	May	10	01:54:25	2460241.5794573	-1263	May	10	10:14:22	029996	LTU	Asc.	0.4618	1.9818	1.0392	304	182	13.4S	30.2W	14	02	1263	B.C.E.	
06536	Nov	03	05:47:05	2460418.7410301	-1263	Nov	03	14:07:01	029996	LPU	Dec.	-0.7925	1.4575	0.3513	329	139	11.0N	89.1W	13	08	1263	B.C.E.	
06537	Mar	31	12:25:05	2460566.9757558	-1262	Mar	31	19:44:41	029976	LNN	Asc.	-1.3474	0.3714	-0.6003	163	---	0.6S	169.7W	14	13	1262	B.C.E.	
06538	Apr	29	19:08:27	2460596.2975369	-1262	Apr	30	03:28:03	029976	LNN	Asc.	1.1957	0.6382	-0.3104	203	---	9.2S	72.2E	15	01	1262	B.C.E.	
06539	Sep	23	15:07:56	2460743.1305079	-1262	Sep	23	23:27:32	029976	LNN	Dec.	1.4524	0.2109	-0.8245	131	---	3.2S	132.1E	12	06	1262	B.C.E.	
06540	Oct	23	06:28:08	2460772.7695409	-1262	Oct	23	14:47:45	029976	LNN	Dec.	-1.4345	0.2621	-0.8097	151	---	6.2N	98.8W	13	07	1262	B.C.E.	
06541	Mar	19	22:31:28	2460921.4385175	-1261	Mar	20	06:50:44	029957	LPU	Asc.	-0.6486	1.6823	0.6537	321	173	4.3N	25.0E	15	12	1261	B.C.E.	
06542	Sep	12	02:40:27	2461097.6114291	-1261	Sep	12	10:59:45	029957	LPU	Dec.	0.0957	1.5767	0.5965	292	154	8.1S	40.2W	13	06	1261	B.C.E.	
06543	Mar	09	02:14:45	2461257.5935708	-1260	Mar	09	10:33:40	029937	LTU	Asc.	0.0089	2.7206	1.6452	373	234	0.1N	29.7W	14	12	1260	B.C.E.	
06544	Sep	01	18:32:41	2461452.2726923	-1260	Sep	02	02:51:37	029937	LTU	Dec.	-0.0957	2.8208	1.8622	319	206	09.9	12.6E	14	06	1260	B.C.E.	
06545	Feb	26	02:15:40	2461629.5942148	-1259	Feb	26	10:34:19	029919	LPU	Asc.	0.8244	1.3845	0.3070	318	130	13.7N	29.1W	14	12	1259	B.C.E.	
06546	Aug	22	10:07:04	2461806.9215743	-1259	Aug	22	18:25:42	029919	LPU	Dec.	-0.7253	1.5181	0.5363	291	148	16.8S	150.9W	14	05	1259	B.C.E.	
06547	Jan	16	17:11:37	2461954.2163971	-1258	Jan	17	01:29:55	029899	LNN	Asc.	-1.2792	0.5178	-0.4960	195	---	21.6N	105.5E	13	10	1258	B.C.E.	
06548	Feb	15	06:02:02	2462018.7514144	-1258	Jan	15	14:20:22	029899	LNN	Asc.	1.5001	0.1233	-0.9118	102	---	17.9N	85.3W	13	11	1258	B.C.E.	
06549	Jul	13	07:35:13	2462131.8161269	-1258	Jul	13	15:53:32	029899	LNN	Dec.	1.2719	0.5499	-0.5008	214	---	22.5S	114.4W	14	04	1258	B.C.E.	
06550	Aug	11	20:54:39	2462161.3712871	-1258	Aug	12	05:12:58	029899	LNN	Dec.	-1.5135	0.0973	-0.9351	091	---	20.4S	47.3E	15	05	1258	B.C.E.	
06551	Jan	06	08:38:11	2462308.7765116	-1257	Jan	06	14:56:11	029880	LPU	Asc.	-0.5480	1.8391	0.8658	301	175	23.2N	97.3W	13	10	1257	B.C.E.	
06552	Jul	01	08:58:15	2462485.8737810	-1257	Jul	01	17:16:15	029880	LPU	Dec.	0.5432	1.8980	0.8252	352	199	23.3S	135.9W	14	04	1257	B.C.E.	
06553	Dec	25	22:29:36	2462663.9372213	-1257	Dec	26	06:47:35	029880	LTU	Asc.	0.1267	2.6124	1.6385	320	207	23.8N	23.5E	14	10	1257	B.C.E.	
06554	Jun	20	10:30:19	2462839.9377256	-1256	Jun	20	18:48:01	029860	LTU	Dec.	-0.2242	2.4698	1.4240	360	226	23.3S	159.6W	13	03	1256	B.C.E.	
06555	Dec	15	12:03:56	2463018.0207269	-1256	Dec	15	20:21:35	029860	LPU	Asc.	0.8334	1.3374	0.3205	287	123	23.6N	178.5E	14	09	1256	B.C.E.	
06556	Jun	09	18:26:15	2463194.2682299	-1255	Jun	10	02:43:36	029840	LPU	Dec.	-0.9733	1.0674	0.0768	264	109	22.5S	80.8E	13	03	1255	B.C.E.	
06557	Nov	05	01:09:40	2463342.5483817	-1255	Nov	05	09:27:00	029840	LNN	Asc.	-1.4160	0.3091	-0.7885	168	---	11.2N	19.4W	14	08	1255	B.C.E.	
06558	May	01	02:22:02	2463519.5986395	-1254	May	01	10:39:04	029821	LPU	Asc.	0.8285	1.3076	0.3674	267	114	10.1S	36.2W	14	02	1254	B.C.E.	
06559	Oct	25	00:11:09	2463696.5077439	-1254	Oct	25	08:28:11	029821	LPU	Asc.	-0.7546	1.5241	0.4237	332	151	7.5N	4.7W	14	08	1254	B.C.E.	
06560	Apr	19	19:14:44	2463874.3018969	-1253	Apr	20	03:31:24	029801	LPU	Dec.	0.0973	2.6249	1.6997	324	209	09.8	71.2E	15	01	1253	B.C.E.	
06561	Oct	13	02:34:32	2464050.6073093	-1253	Oct	13	10:51:16	029801	LTU	Asc.	-0.0416	2.8092	1.7549	356	226	10.2	6.0W	13	07	1253	B.C.E.	
06562	Apr	09	12:52:12	2464228.8300033	-1252	Apr	09	16:11:33	029782	LPU	Dec.	-0.6871	1.6030	0.5917	311	164	3.6N	118.2W	14	01	1252	B.C.E.	
06563	Oct	02	12:22:14	2464405.1054400	-1252	Oct	02	20:38:38	029782	LPU	Asc.	0.6545	1.6549	0.6592	301	164	0.2S	173.0E	12	07	1252	B.C.E.	
06564	Feb	27	21:36:11	2464553.4001269	-1251	Feb	28	05:52:12	029762	LNN	Dec.	1.3926	0.3448	-0.7384	178	---	13.5N	41.1E	14	12	1251	B.C.E.	
06565	Mar	29	13:21:45	2464783.0567715	-1251	Mar	29	21:37:47	029762	LNN	Dec.	-1.4926	0.1509	-0.9117	118	---	0.1N	161.0E	14	13	1251	B.C.E.	
06566	Aug	23	21:15:38	2464930.2619837	-1251	Aug	24	02:33:18	029762	LNN	Asc.	-1.3005	0.4510	-0.5077	173	---	16.8S	87.0E	14	05	1251	B.C.E.	
06567	Sep	22	03:25:23	2464959.6426304	-1251	Sep	22	11:41:26	029762	LNN	Asc.	1.3018	0.4512	-0.5126	173	---	3.9S	52.5W	13	06	1251	B.C.E.	
06568	Feb	16	21:52:06	2464907.4111788	-1250	Feb	17	06:07:50	029743	LPU	Dec.	0.6638	1.6759	0.6050	335	173	16.6N	37.1E	14	11	1250	B.C.E.	
06569	Aug	13	09:03:33	2465084.8747460	-1250	Aug	13	17:19:15	029743	LPU	Asc.	-0.6275	1.7032	0.7102	307	171	19.2S	134.9W	14	05	1250	B.C.E.	
06570	Feb	06	22:49:33	2465261.6461938	-1249	Feb	06	11:45:57	029723	LTU	Dec.	-0.0888	2.7061	1.6843	345	222	10.0	19.0N	13	11	1249	B.C.E.	
06571	Oct	01	17:59:02	2465439.2493277	-1249	Aug	02	02:14:22	029723	LTU	Asc.	0.1146	2.6708	1.6252	359	228	10.1	21.0S	90.7E	15	05	1249	B.C.E.
06572	Jan	25	16:01:35	2465616.1677719	-1249	Jan	26	00:16:40	029704	LPU	Dec.	-0.7871	1.4014	0.4260	280	131	20.7N	62.6E	14	11	1248	B.C.E.	
06573	Jul	21	00:07:23	2465793.3384554	-1248	Jul	22	04:22:26	029704	LPU	Asc.	0.8770	1.2875	0.2110	312	110	22.1S	57.9E	14	04	1248	B.C.E.	
06574	Dec	16	24:48:30	2465941.8980668	-1248	Dec	17	05:45:02	029704	LNN	Dec.	1.2208	0.6097	-0.3736	201	---	22.2N	37.3E	14	09	1248	B.C.E.	
06575	Jan	15	07:56:56	2466117.8311980	-1247	Jan	15	16:11:40	029684	LNN	Dec.	-1.4408	0.1968	-0.7684	117	---	21.6N	116.3W	14	10	1247	B.C.E.	
06576	Jun	11	22:40:37	2466294.1164399	-1247	Jun	11	15:50:26	029685	LNN	Asc.	-1.1876	0.6943	-0.3360	233	---	23.0S	116.3W	13	03	1247	B.C.E.	
06577	Dec	06	09:34:36	2466479.8990258	-1247	Dec	06	17:49															

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar			
										Pen.	Par.	Lat.	Lon.	Day	Month	Year	
06635	Sep 23 1224 B.C.E.	11:32:48	1274622.9811116	-1224	Sep 23 19:40:08	029240	LTU	Dec.	0.0395	2.7680	1.8030	319	207	098	4.3S	173.8W	13 06 1224 B.C.E.
06636	Mar 19 1223 B.C.E.	16:19:43	1274800.1803551	-1223	Mar 20 00:26:45	029221	LPU	Asc.	0.7044	1.5995	0.5323	332	165	---	5.6N	118.4E	14 12 1223 B.C.E.
06637	Sep 13 1223 B.C.E.	02:29:24	1274977.6037532	-1223	Sep 13 10:36:25	029222	LPU	Dec.	-0.6671	1.6306	0.6372	300	162	---	9.1S	37.1W	14 06 1223 B.C.E.
06638	Feb 07 1222 B.C.E.	09:36:42	1275124.9004870	-1222	Feb 07 17:43:25	029203	LNN	Asc.	-1.3201	0.4365	-0.5649	179	---	---	17.4N	139.6W	13 11 1222 B.C.E.
06639	Mar 08 1222 B.C.E.	21:13:05	1275154.3840910	-1222	Mar 09 05:19:48	029203	LNN	Asc.	1.4016	0.2972	-0.7245	155	---	---	10.5N	46.1E	13 12 1222 B.C.E.
06640	Aug 03 1222 B.C.E.	21:36:29	1275302.4003368	-1222	Aug 04 05:43:12	029203	LNN	Dec.	1.4039	0.3133	-0.7487	166	---	---	19.5S	36.2E	15 05 1222 B.C.E.
06641	Sep 02 1222 B.C.E.	12:10:09	1275332.0070529	-1222	Sep 02 20:16:52	029203	LNN	Dec.	-1.4413	0.2366	-0.8092	142	---	---	13.7S	178.3E	14 06 1222 B.C.E.
06642	Jan 27 1221 B.C.E.	23:50:30	1275479.4934057	-1221	Jan 28 07:56:54	029183	LPU	Asc.	-0.5821	1.7727	0.8071	297	169	---	20.5N	6.6E	14 11 1221 B.C.E.
06643	Jul 22 1221 B.C.E.	22:19:54	1275566.4304901	-1221	Jul 23 06:26:18	029183	LPU	Dec.	0.6911	1.6291	0.5515	338	169	---	22.0S	25.0E	14 04 1221 B.C.E.
06644	Jan 16 1220 B.C.E.	15:56:24	1275834.1641665	-1220	Jan 17 00:02:27	029164	LTU	Asc.	0.1022	2.6564	1.6844	322	208	096	22.9N	124.3E	15 10 1220 B.C.E.
06645	Jul 12 1220 B.C.E.	00:12:38	1276010.5087738	-1220	Jul 12 08:18:44	029164	LTU	Dec.	-0.0714	2.7493	1.7054	361	230	104	23.7S	3.8W	13 04 1220 B.C.E.
06646	Jan 06 1219 B.C.E.	05:13:49	1276188.7179302	-1219	Jan 06 13:19:34	029145	LPU	Asc.	0.8237	1.3562	0.3373	290	127	---	24.5N	76.2W	14 10 1219 B.C.E.
06647	Jul 01 1219 B.C.E.	08:56:12	1276364.8723572	-1219	Jul 01 17:01:58	029145	LPU	Dec.	-0.8213	1.3444	0.3576	285	127	---	24.6S	135.5W	13 04 1219 B.C.E.
06648	Nov 26 1219 B.C.E.	17:30:49	1276513.2297312	-1219	Nov 27 01:36:34	029145	LNN	Asc.	-1.4269	0.2909	-0.8103	164	---	---	18.0N	95.8E	15 09 1219 B.C.E.
06649	May 22 1218 B.C.E.	17:23:46	1276690.2248394	-1218	May 23 01:29:11	029125	LPU	Dec.	0.9752	1.0379	0.0989	245	041	---	16.7S	97.1E	14 02 1218 B.C.E.
06650	Jun 20 1218 B.C.E.	23:59:28	1276719.4996279	-1218	Jun 21 08:04:53	029125	LNN	Dec.	-1.5092	0.0615	-0.8842	066	---	---	24.6S	2.1W	14 03 1218 B.C.E.
06651	Nov 15 1218 B.C.E.	16:27:43	1276867.1895154	-1218	Nov 16 00:33:09	029125	LPU	Asc.	-0.7634	1.5075	0.4079	329	148	---	15.3N	110.9E	14 08 1218 B.C.E.
06652	May 11 1217 B.C.E.	10:03:13	1277044.9188975	-1217	May 11 18:08:17	029106	LTU	Dec.	0.2470	2.3858	1.4234	322	205	086	14.4S	152.6W	14 02 1217 B.C.E.
06653	Nov 03 1217 B.C.E.	19:26:10	1277221.3098329	-1217	Nov 04 03:31:19	029106	LTU	Asc.	-0.0517	2.7892	1.7378	354	225	102	12.1N	65.9E	13 08 1217 B.C.E.
06654	Apr 30 1216 B.C.E.	22:02:03	1277399.4180872	-1216	May 01 06:06:48	029087	LPU	Dec.	-0.5408	1.8735	0.8583	328	191	---	11.5S	28.1E	15 02 1216 B.C.E.
06655	Oct 24 1216 B.C.E.	05:46:23	1277553.6143277	-1216	Oct 24 13:51:11	029087	LPU	Asc.	0.6347	1.6907	0.6961	301	167	---	8.7N	89.2W	13 08 1216 B.C.E.
06656	Mar 21 1215 B.C.E.	11:28:10	1277723.9778987	-1215	Mar 21 19:32:38	029068	LNN	Dec.	1.5149	0.1174	-0.9599	106	---	---	5.5N	168.5W	14 11 1215 B.C.E.
06657	Apr 20 1215 B.C.E.	02:44:38	1277753.6143277	-1215	Apr 20 10:49:06	029068	LNN	Dec.	-1.3468	0.4183	-0.6439	192	---	---	8.2S	41.9W	14 01 1215 B.C.E.
06658	Sep 14 1215 B.C.E.	11:00:42	1277900.9588166	-1215	Sep 14 19:05:10	029068	LNN	Asc.	-1.3618	0.3426	-0.6243	153	---	---	9.1S	164.6W	14 06 1215 B.C.E.
06659	Oct 13 1215 B.C.E.	20:54:17	1277930.3710317	-1215	Oct 14 04:58:45	029068	LNN	Asc.	1.2751	0.5023	-0.4657	181	---	---	5.0N	44.0E	14 07 1215 B.C.E.
06660	Mar 10 1214 B.C.E.	12:23:05	1278078.0160261	-1214	Mar 10 20:27:13	029048	LPU	Dec.	0.7647	1.4848	0.4257	320	149	---	9.2N	178.4E	13 12 1214 B.C.E.
06661	Sep 04 1214 B.C.E.	00:58:26	1278255.5405833	-1214	Sep 04 09:02:33	029048	LPU	Dec.	-0.7085	1.5609	0.5552	302	157	---	12.5S	13.9W	15 06 1214 B.C.E.
06662	Feb 27 1213 B.C.E.	19:12:36	1278432.3004161	-1213	Feb 28 03:16:26	029029	LTU	Dec.	-0.0095	2.8449	1.8364	342	221	102	12.5N	76.4E	13 12 1213 B.C.E.
06663	Aug 23 1213 B.C.E.	08:43:49	1278609.8637573	-1213	Aug 23 16:47:34	029029	LTU	Asc.	0.0135	2.8627	1.8044	363	230	104	15.5S	130.2W	14 05 1213 B.C.E.
06664	Feb 16 1212 B.C.E.	08:38:40	1278786.8601844	-1212	Feb 16 16:42:11	029010	LPU	Dec.	-0.7235	1.5132	0.5475	285	145	---	15.3N	125.1W	13 11 1212 B.C.E.
06665	Aug 12 1212 B.C.E.	09:59:30	1278963.9163205	-1212	Aug 12 18:03:00	029010	LPU	Asc.	0.7542	1.5166	0.4324	331	153	---	18.0S	149.4W	14 05 1212 B.C.E.
06666	Jan 07 1211 B.C.E.	15:02:16	1279112.1265742	-1211	Jan 07 23:05:27	028991	LNN	Dec.	1.2411	0.5724	-0.4109	196	---	---	24.9N	137.1E	15 10 1211 B.C.E.
06667	Feb 06 1211 B.C.E.	00:58:58	1279141.5409445	-1211	Feb 06 09:02:09	028991	LNN	Dec.	-1.3983	0.2728	-0.6883	137	---	---	17.6N	10.5W	14 11 1211 B.C.E.
06668	Jul 02 1211 B.C.E.	21:24:57	1279288.9923287	-1211	Jul 03 05:28:09	028991	LNN	Asc.	-1.3298	0.4315	-0.5951	187	---	---	25.1S	37.6E	13 04 1211 B.C.E.
06669	Aug 01 1211 B.C.E.	10:43:39	1279317.3469805	-1211	Aug 01 18:46:52	028992	LNN	Asc.	1.4570	0.2148	-0.8448	139	---	---	19.9S	160.9W	13 05 1211 B.C.E.
06670	Dec 28 1211 B.C.E.	02:39:16	1279466.6106036	-1211	Dec 28 10:42:27	028992	LPU	Dec.	0.5930	1.7891	0.7510	323	180	---	24.4N	38.6W	15 10 1211 B.C.E.
06671	Jun 22 1210 B.C.E.	08:14:36	1279642.8434758	-1210	Jun 22 16:17:30	028972	LPU	Dec.	-0.5157	1.8973	0.9262	311	183	---	23.8S	125.5W	13 03 1210 B.C.E.
06672	Dec 17 1210 B.C.E.	06:59:09	1279820.7910809	-1210	Dec 17 15:02:00	028972	LTU	Dec.	-0.1005	2.7201	1.6281	372	232	102	22.9N	104.9W	14 09 1210 B.C.E.
06673	Jun 11 1209 B.C.E.	00:23:33	1279997.5163547	-1209	Jun 11 08:26:06	028953	LPU	Asc.	0.2381	2.3913	1.4504	313	199	087	21.7S	8.2W	14 03 1209 B.C.E.
06674	Dec 05 1209 B.C.E.	06:10:03	1280174.7569818	-1209	Dec 05 14:12:36	028953	LPU	Dec.	-0.7814	1.4770	0.3725	329	143	---	20.5N	93.7W	13 09 1209 B.C.E.
06675	May 31 1208 B.C.E.	17:26:18	1280352.2255999	-1208	Jun 01 01:28:32	028934	LPU	Asc.	0.9844	1.0284	0.0746	249	037	---	19.0S	96.1E	15 03 1208 B.C.E.
06676	Oct 25 1208 B.C.E.	16:21:05	1280498.8113097	-1208	Oct 26 00:23:19	028934	LNN	Dec.	1.4682	0.1806	-0.8520	121	---	---	10.1N	111.9E	13 08 1208 B.C.E.
06677	Nov 24 1208 B.C.E.	07:38:09	1280528.8181609	-1208	Nov 24 15:40:24	028934	LNN	Dec.	-1.4186	0.2883	-0.7773	157	---	---	17.3N	116.4W	13 09 1208 B.C.E.
06678	Apr 21 1207 B.C.E.	19:42:06	1280677.3280972	-1207	Apr 22 03:44:00	028915	LPU	Asc.	-0.8658	1.2854	0.2536	297	116	---	8.5S	63.9E	15 01 1207 B.C.E.
06679	Oct 15 1207 B.C.E.	04:30:47	1280853.6880416	-1207	Oct 15 12:32:43	028915	LPU	Dec.	0.7319	1.5057	0.5242	286	145	---	5.2N	69.8W	13 07 1207 B.C.E.
06680	Apr 10 1206 B.C.E.	22:36:23	1281031.4419323	-1206	Apr 11 06:37:58	028896	LTU	Asc.	-0.1155	2.6817	1.6111	373	234	103	3.6S	21.7E	14 01 1206 B.C.E.
06681	Oct 04 1206 B.C.E.	10:13:53	1281208.3429754	-1206	Oct 05 04:15:29	028896	LTU	Dec.	0.0541	2.7426	1.7746	320	209	098	0.2N	55.2E	14 07 1206 B.C.E.
06682	Mar 29 1205 B.C.E.	23:11:51	1281385.4665610	-1205	Mar 30 07:13:08	028876	LPU	Asc.	0.6353	1.7238	0.6614	338	180	---	1.3N	14.2E	14 13 1205 B.C.E.
06683	Sep 23 1205 B.C.E.	10:50:47	1281562.9519290	-1205	Sep 23 18:52:02	028876	LPU	Dec.	-0.6477	1.6691	0.6701	304	167	---	4.8S	163.1W	14 06 1205 B.C.E.
06684	Feb 17 1204 B.C.E.	17:38:12	1281710.2348666	-1204	Feb 18 01:39:09	028857	LNN	Asc.	-1.3504	0.3778	-0.6174	167	---	---	14.2N	100.0E	14 11 1204 B.C.E.
06685	Mar 19 1204 B.C.E.	04:38:55	1281739.6936897	-1204	Mar 19 12:39:52	028857	LNN	Asc.	1.3430	0.4016	-0.6137	177	---	---	6.3N	66.2W	13 12 1204 B.C.E.
06686	Aug 14 1204 B.C.E.	04:48:08	1281887.7000879	-1204	Aug 14 12:49:04	028857	LNN	Dec.	1.4593	0.2145	-0.8532	139	---	---	16.9S	71.5W	14 05 1204 B.C.E.
06687	Sep 12 1204 B.C.E.	19:59:31	1281917.3329994	-1204	Sep 13 04:00:28	028857	LNN	Dec.	-1.4154	0.2874	-0.7650	156	---	---	9.7S	60.5E	15 06 120

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time	Year	Month	Day	Time	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
06742	Jun	13	1182	B.C.E.	08:24:52	1289860	8506023	-1182	Jun	13	16:18:51	028439	LNN	Dec.	1.1218	0.7696	-0.1709	218	---	---	21.1S	128.1W	14	03	1182	B.C.E.
06743	Jul	12	1182	B.C.E.	15:16:08	1289890	1362033	-1182	Jul	12	23:10:07	028439	LNN	Dec.	-1.3765	0.3056	-0.6415	144	---	---	25.0S	130.3E	13	04	1182	B.C.E.
06744	Dec	07	1182	B.C.E.	08:50:45	1290037	8685812	-1182	Dec	07	16:44:45	028439	LNN	Asc.	-0.7680	1.4971	0.4015	327	146	---	20.9N	133.7W	13	09	1182	B.C.E.
06745	Jun	02	1181	B.C.E.	00:41:27	1290215	5287842	-1181	Jun	02	08:35:06	028420	LTU	Dec.	0.4022	2.1039	1.1358	318	195	054	20.0S	12.6W	15	03	1181	B.C.E.
06746	Nov	25	1181	B.C.E.	12:32:16	1290392	0224110	-1181	Nov	25	20:25:59	028420	LTU	Asc.	-0.0532	2.7835	1.7377	351	223	101	19.0N	169.9E	12	09	1181	B.C.E.
06747	Nov	22	1180	B.C.E.	11:48:34	1290569	9920545	-1180	Nov	22	19:41:53	028401	LTU	Dec.	-0.3808	2.1701	1.1488	342	210	059	18.1S	179.6W	14	02	1180	B.C.E.
06748	Nov	14	1180	B.C.E.	23:29:42	1290746	4789640	-1180	Nov	15	07:23:04	028401	LPU	Asc.	0.6287	1.7004	0.7085	300	167	---	16.5N	4.8E	13	08	1180	B.C.E.
06749	Nov	11	1179	B.C.E.	15:44:24	1290924	1558349	-1179	Nov	11	23:37:26	028382	LNN	Dec.	-1.1821	0.7210	-0.3422	246	---	---	15.6S	121.6E	14	02	1179	B.C.E.
06750	Oct	06	1179	B.C.E.	04:12:40	1291071	6754667	-1179	Oct	06	12:05:42	028382	LNN	Asc.	-1.4002	0.2761	-0.6988	139	---	---	0.4S	63.9W	14	07	1179	B.C.E.
06751	Nov	04	1179	B.C.E.	14:43:29	1291101	1135285	-1179	Nov	04	22:36:31	028382	LNN	Asc.	1.2652	0.5219	-0.4490	185	---	---	13.5N	136.0E	13	08	1179	B.C.E.
06752	Apr	01	1178	B.C.E.	02:26:02	1291248	6014089	-1178	Apr	01	10:18:46	028363	LPU	Dec.	0.8907	1.2478	0.2002	299	105	---	0.9N	34.3W	13	01	1178	B.C.E.
06753	Sep	25	1178	B.C.E.	17:22:37	1291426	2240406	-1178	Sep	26	01:15:19	028363	LPU	Asc.	-0.7624	1.4683	0.4502	298	144	---	4.1S	99.0E	15	07	1178	B.C.E.
06754	Mar	20	1177	B.C.E.	10:25:41	1291602	9345042	-1177	Mar	20	18:18:08	028344	LTU	Dec.	0.0976	2.6767	1.6810	338	219	100	4.5N	153.4W	13	13	1177	B.C.E.
06755	Sep	13	1177	B.C.E.	23:59:34	1291780	4996969	-1177	Sep	14	07:51:56	028344	LTU	Asc.	-0.0589	2.7856	1.7149	366	231	103	7.9S	0.0E	14	06	1177	B.C.E.
06756	Mar	10	1176	B.C.E.	00:45:35	1292458	9896655	-1176	Mar	10	08:37:41	028325	LPU	Dec.	-0.6333	1.6741	0.7175	292	161	---	7.9N	7.8W	14	12	1176	B.C.E.
06757	Sep	03	1176	B.C.E.	00:27:55	1292234	5193823	-1176	Sep	03	08:20:20	028325	LPU	Asc.	0.6600	1.6932	0.6017	343	175	---	11.4S	6.8W	14	06	1176	B.C.E.
06758	Jan	29	1175	B.C.E.	08:05:01	1292282	8368185	-1175	Jan	29	15:56:47	028306	LNN	Dec.	1.2842	0.4927	-0.4896	184	---	---	21.9N	116.4W	14	11	1175	B.C.E.
06759	Feb	27	1175	B.C.E.	17:26:55	1292312	2270203	-1175	Feb	28	01:18:41	028306	LNN	Dec.	-1.3299	0.3964	-0.5609	163	---	---	11.0N	102.2E	15	12	1175	B.C.E.
06760	Jul	24	1175	B.C.E.	11:45:07	1292345	8866655	-1175	Jul	24	19:36:53	028306	LNN	Asc.	-1.4505	0.2090	-0.8157	132	---	---	23.8S	175.8W	13	04	1175	B.C.E.
06761	Aug	23	1175	B.C.E.	01:20:56	1292488	5562002	-1175	Aug	23	09:12:42	028306	LNN	Asc.	1.3489	0.4138	-0.6472	188	---	---	14.5S	20.0W	13	05	1175	B.C.E.
06762	Jan	18	1174	B.C.E.	19:16:57	1292656	3034318	-1174	Jan	19	03:08:22	028287	LPU	Dec.	0.6249	1.7132	0.6919	322	176	---	13.1N	74.5E	15	10	1174	B.C.E.
06763	Jul	13	1174	B.C.E.	23:13:30	1292813	4677118	-1174	Jul	14	07:04:59	028287	LPU	Asc.	-0.6468	1.6557	0.6864	298	162	---	24.2S	11.2E	13	04	1174	B.C.E.
06764	Jan	07	1173	B.C.E.	23:04:01	1292991	4611240	-1173	Jan	08	06:55:08	028269	LTU	Dec.	-0.0775	2.7618	1.6706	374	233	103	23.6N	16.4E	14	10	1173	B.C.E.
06765	Jul	02	1173	B.C.E.	15:35:01	1293168	1493148	-1173	Jul	02	23:26:10	028269	LTU	Asc.	0.0978	2.6499	1.7069	317	204	097	23.7S	125.0E	13	04	1173	B.C.E.
06766	Dec	26	1173	B.C.E.	22:16:14	1293242	4279350	-1173	Dec	27	06:07:23	028269	LPU	Dec.	-0.7647	1.5050	0.4058	330	148	---	23.1N	27.0E	14	10	1173	B.C.E.
06767	Jun	22	1172	B.C.E.	08:16:38	1293522	8448893	-1172	Jun	22	16:07:28	028250	LNN	Asc.	0.8442	1.2891	0.3285	273	113	---	22.5S	126.0W	14	03	1172	B.C.E.
06768	Nov	16	1172	B.C.E.	09:38:31	1293669	9017449	-1172	Nov	16	17:29:21	028250	LNN	Dec.	1.4602	0.1930	-0.8352	124	---	---	17.8N	147.4W	12	08	1172	B.C.E.
06769	Dec	16	1172	B.C.E.	00:30:04	1293847	5208744	-1172	Dec	16	08:20:54	028250	LNN	Dec.	-1.4079	0.3039	-0.7539	160	---	---	21.6N	7.7W	13	09	1172	B.C.E.
06770	May	13	1171	B.C.E.	09:16:09	1293847	8862098	-1171	May	13	17:06:40	028231	LNN	Asc.	-1.0315	0.9837	-0.0525	271	---	---	16.1S	141.2W	14	02	1171	B.C.E.
06771	Nov	05	1171	B.C.E.	22:14:38	1294024	4282851	-1171	Nov	06	06:05:09	028231	LPU	Dec.	0.7356	1.4986	0.5177	285	143	---	13.6N	23.5E	13	08	1171	B.C.E.
06772	May	02	1170	B.C.E.	11:37:18	1294201	9682393	-1170	May	02	19:27:30	028212	LTU	Dec.	-0.2821	2.3751	1.3064	369	226	083	11.8S	175.6W	14	02	1170	B.C.E.
06773	Oct	26	1170	B.C.E.	13:53:34	1294379	0788692	-1170	Oct	26	21:43:46	028212	LTU	Dec.	0.0685	2.7188	1.7455	321	208	097	9.0N	149.2E	13	08	1170	B.C.E.
06774	Apr	20	1169	B.C.E.	12:39:00	1294556	0270859	-1169	Apr	20	20:28:54	028193	LPU	Asc.	0.4804	2.0035	0.9502	349	204	---	7.1S	170.1E	13	01	1169	B.C.E.
06775	Oct	15	1169	B.C.E.	03:53:51	1294733	6623992	-1169	Oct	15	11:43:43	028193	LPU	Dec.	-0.6274	1.7116	0.7021	308	171	---	4.2N	60.2W	14	07	1169	B.C.E.
06776	Mar	11	1168	B.C.E.	09:19:40	1294880	8886563	-1168	Mar	11	17:09:14	028174	LNN	Asc.	-1.4304	0.2249	-0.7580	129	---	---	6.6N	136.6W	13	12	1168	B.C.E.
06777	Apr	09	1168	B.C.E.	19:13:33	1294910	3010720	-1168	Apr	10	03:03:07	028174	LNN	Asc.	1.2082	0.6429	-0.3604	217	---	---	2.3S	72.9E	13	01	1168	B.C.E.
06778	Sep	04	1168	B.C.E.	19:35:04	1295058	13160135	-1168	Sep	05	03:24:38	028174	LNN	Dec.	1.5486	0.0565	-1.0226	073	---	---	9.9S	66.2E	14	06	1168	B.C.E.
06779	Oct	04	1168	B.C.E.	11:59:44	1295087	9998183	-1168	Oct	04	19:49:18	028174	LNN	Dec.	-1.3825	0.3537	-0.7106	173	---	---	0.9S	179.1E	14	07	1168	B.C.E.
06780	Mar	01	1167	B.C.E.	00:40:44	1295235	5282815	-1167	Mar	01	08:29:59	028155	LPU	Asc.	-0.6837	1.5802	0.6263	286	150	---	11.1N	5.9W	14	12	1167	B.C.E.
06781	Aug	24	1167	B.C.E.	19:27:36	1295412	3108353	-1167	Aug	25	03:16:52	028155	LPU	Dec.	0.8593	1.3246	0.2390	316	117	---	14.3S	68.6E	14	06	1167	B.C.E.
06782	Feb	18	1166	B.C.E.	17:06:09	1295590	2126003	-1166	Feb	19	00:55:02	028136	LTU	Asc.	0.0187	2.8077	1.8394	324	210	099	15.3N	108.3E	15	12	1166	B.C.E.
06783	Aug	13	1166	B.C.E.	21:53:12	1295766	4119483	-1166	Aug	14	05:42:11	028136	LTU	Dec.	0.1089	2.6803	1.6367	357	227	101	18.2S	32.2W	13	05	1166	B.C.E.
06784	Feb	08	1165	B.C.E.	05:56:22	1295944	7474780	-1165	Feb	08	13:44:58	028117	LPU	Asc.	0.7656	1.4632	0.4434	301	144	---	19.1N	84.4E	14	11	1165	B.C.E.
06785	Aug	02	1165	B.C.E.	07:35:38	1296120	8164083	-1165	Aug	02	15:24:15	028117	LPU	Dec.	-0.6318	1.6911	0.7063	304	168	---	21.5S	113.3W	13	05	1165	B.C.E.

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Month	Day	Time (UT)	Julian Date (UT)	(TD)	Date	Time		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year		
06849	Feb	20	11:39 B.C.E.	00:32:13	1305453.5223758	-1139	Feb 20 08:12:43	027630	LNN	Dec.	1.3549	0.3625	-0.6187	161	---	15.9N	2.7W	15	12	1139 B.C.E.		
06850	Mar	21	11:39 B.C.E.	09:20:51	1305482.8894783	-1139	Mar 21 17:01:21	027630	LNN	Dec.	-1.2354	0.5684	-0.3863	193	---	3.0N	137.9W	14	13	1139 B.C.E.		
06851	Apr	15	11:39 B.C.E.	02:42:00	1305629.6124983	-1139	Apr 15 10:22:30	027630	LNN	Asc.	-1.5450	0.0353	-0.9887	055	---	19.2S	39.2W	13	05	1139 B.C.E.		
06852	Sep	13	11:39 B.C.E.	16:39:48	1305659.9943069	-1139	Sep 14 00:20:18	027630	LNN	Asc.	1.2701	0.5589	-0.5032	215	---	7.0S	109.4E	13	06	1139 B.C.E.		
06853	Feb	09	11:38 B.C.E.	11:16:46	1305807.9699777	-1138	Feb 09 18:56:56	027611	LPU	Dec.	0.6844	1.6221	0.5826	318	165	18.5N	164.1W	14	11	1138 B.C.E.		
06854	Aug	04	11:38 B.C.E.	14:42:40	1305984.1129685	-1138	Aug 04 22:22:52	027611	LPU	Asc.	-0.7557	1.4561	0.4866	285	139	21.2S	140.1E	13	05	1138 B.C.E.		
06855	Jan	29	11:37 B.C.E.	14:34:54	1306162.1075701	-1137	Jan 29 22:14:45	027593	LTU	Dec.	-0.0288	2.8498	1.7616	375	234	20.6N	145.7E	14	11	1137 B.C.E.		
06856	Jul	24	11:37 B.C.E.	07:06:28	1306338.7961592	-1137	Jul 24 14:46:22	027593	LTU	Asc.	-0.0256	2.7846	1.8370	318	205	22.4S	106.5W	14	04	1137 B.C.E.		
06857	Jan	17	11:36 B.C.E.	14:01:16	1306516.0842173	-1136	Jan 17 21:40:52	027575	LPU	Dec.	-0.0288	1.5670	0.4759	333	158	21.9N	153.1E	13	10	1136 B.C.E.		
06858	Jul	13	11:36 B.C.E.	23:17:39	1306693.4705849	-1136	Jul 14 06:57:13	027575	LPU	Asc.	0.7151	1.5306	0.5609	291	149	22.8S	10.0E	15	04	1136 B.C.E.		
06859	Dec	08	11:36 B.C.E.	03:01:41	1306840.8261652	-1136	Dec 08 10:41:16	027575	LNN	Dec.	1.4509	0.2067	-0.8147	127	---	23.2N	46.6W	13	09	1136 B.C.E.		
06860	Jan	06	11:35 B.C.E.	17:09:18	1306870.2147897	-1135	Jan 07 00:48:34	027556	LNN	Dec.	-1.3835	0.3434	-0.7041	168	---	22.4N	104.8E	13	10	1135 B.C.E.		
06861	Jun	03	11:35 B.C.E.	22:37:08	1307018.4424482	-1135	Jun 04 06:16:23	027556	LNN	Asc.	-1.2027	0.6727	-0.3699	233	---	21.8S	18.2E	15	03	1135 B.C.E.		
06862	Jul	03	11:35 B.C.E.	10:46:14	1307047.9487764	-1135	Jul 03 18:25:31	027556	LNN	Asc.	1.5264	0.0674	-0.9528	076	---	22.4S	162.9W	14	04	1135 B.C.E.		
06863	Nov	27	11:35 B.C.E.	16:09:39	1307195.1733725	-1135	Nov 27 23:48:56	027556	LPU	Dec.	0.7322	1.5037	0.5252	284	144	20.3N	115.5E	14	09	1135 B.C.E.		
06864	May	24	11:34 B.C.E.	00:23:38	1307372.5164095	-1134	May 24 08:02:35	027537	LPU	Asc.	-0.4593	2.0497	0.9814	359	210	18.6S	8.3W	14	02	1134 B.C.E.		
06865	Nov	17	11:34 B.C.E.	07:47:33	1307549.3847528	-1134	Nov 17 15:26:29	027537	LPU	Dec.	0.0703	2.7175	1.7404	322	208	16.7N	119.4W	14	08	1134 B.C.E.		
06866	May	12	11:33 B.C.E.	01:54:56	1307726.5798159	-1133	May 12 09:33:37	027519	LTU	Asc.	0.3125	2.3076	1.2621	357	220	14.7S	30.6W	13	02	1133 B.C.E.		
06867	Nov	05	11:33 B.C.E.	21:14:03	1307904.3847528	-1133	Nov 06 04:52:41	027519	LPU	Dec.	-0.6246	1.7212	1.7030	311	172	15.2N	39.0E	15	08	1133 B.C.E.		
06868	Apr	02	11:32 B.C.E.	00:34:41	1308051.5240847	-1132	Apr 02 08:13:01	027500	LNN	Asc.	-1.5335	0.0301	-0.9417	048	---	2.0S	7.5W	13	01	1132 B.C.E.		
06869	May	01	11:32 B.C.E.	09:33:26	1308080.8982135	-1132	May 01 17:11:46	027500	LNN	Asc.	1.0568	0.9154	-0.0776	249	---	10.5S	144.3W	13	02	1132 B.C.E.		
06870	Oct	26	11:32 B.C.E.	04:23:23	1308258.8982106	-1132	Oct 26 12:01:43	027500	LNN	Dec.	-1.3711	0.3797	-0.6945	181	---	7.9N	67.9W	14	08	1132 B.C.E.		
06871	Mar	22	11:31 B.C.E.	16:35:29	1308406.1913077	-1131	Mar 23 10:13:30	027481	LPU	Asc.	-0.7843	1.3924	0.4451	274	127	2.8N	113.6E	14	13	1131 B.C.E.		
06872	Sep	15	11:31 B.C.E.	10:21:07	1308582.9313256	-1131	Sep 15 17:59:08	027481	LPU	Dec.	0.9319	1.1937	0.1034	304	078	6.5S	155.7W	13	06	1131 B.C.E.		
06873	Mar	12	11:30 B.C.E.	09:08:15	1308760.8807318	-1130	Mar 12 16:45:57	027463	LPU	Asc.	-0.0712	2.7106	1.7440	325	210	7.6N	133.4W	14	12	1130 B.C.E.		
06874	Sep	04	11:30 B.C.E.	13:11:17	1308937.0494974	-1130	Sep 04 20:49:02	027463	LTU	Dec.	0.1906	2.5303	1.4865	353	222	11.3S	162.5E	12	06	1130 B.C.E.		
06875	Feb	29	11:29 B.C.E.	21:34:31	1309115.3989664	-1129	Mar 01 05:11:54	027444	LPU	Asc.	0.6905	1.6011	0.5810	311	163	12.2N	40.9E	15	12	1129 B.C.E.		
06876	Aug	23	11:29 B.C.E.	23:25:44	1309291.4762021	-1129	Aug 24 07:03:09	027444	LPU	Dec.	-0.5382	1.8630	0.8779	310	182	15.6S	9.4E	13	06	1129 B.C.E.		
06877	Jan	19	11:28 B.C.E.	09:25:22	1309439.8926160	-1128	Jan 19 17:02:27	027425	LNN	Asc.	-1.4905	0.1718	-0.9245	128	---	21.0N	137.7W	14	11	1128 B.C.E.		
06878	Feb	18	11:28 B.C.E.	02:44:21	1309469.6141268	-1128	Feb 18 10:21:26	027425	LNN	Asc.	1.4714	0.1956	-0.8784	134	---	16.5N	36.0W	14	12	1128 B.C.E.		
06879	Jul	15	11:28 B.C.E.	07:17:25	1309611.3083767	-1128	Jul 15 14:54:31	027425	LNN	Dec.	1.3224	0.4053	-0.5425	164	---	22.0S	109.7W	14	04	1128 B.C.E.		
06880	Aug	13	11:28 B.C.E.	14:59:33	1309646.1246892	-1128	Aug 13 22:36:38	027425	LNN	Dec.	-1.2162	0.6027	-0.3502	196	---	19.4S	136.1E	13	05	1128 B.C.E.		
06881	Jan	08	11:27 B.C.E.	09:05:40	1309793.8789342	-1127	Jan 08 16:42:28	027407	LPU	Asc.	-0.7366	1.4441	0.3603	321	139	22.8N	133.8W	13	10	1127 B.C.E.		
06882	Jul	04	11:27 B.C.E.	22:40:04	1309971.4444892	-1127	Jul 05 06:16:49	027407	LPU	Dec.	0.6267	1.6987	0.7173	305	169	23.2S	19.0E	15	04	1127 B.C.E.		
06883	Dec	28	11:27 B.C.E.	14:09:02	1310148.0886061	-1127	Dec 28 21:45:52	027407	LPU	Asc.	-0.0624	2.7600	1.7273	346	222	101	23.7N	149.0E	12	10	1127 B.C.E.	
06884	Jun	24	11:26 B.C.E.	08:16:14	1310325.8446118	-1126	Jun 24 15:52:40	027388	LTU	Dec.	-0.1384	2.6214	1.5871	356	227	100	23.6S	125.8W	14	03	1126 B.C.E.	
06885	Dec	18	11:26 B.C.E.	02:10:15	1310502.5904533	-1126	Dec 18 09:46:44	027388	LPU	Asc.	0.6225	1.7077	0.7236	298	166	23.8N	32.7W	13	09	1126 B.C.E.		
06886	Jun	12	11:25 B.C.E.	10:59:58	1310679.97883127	-1125	Jun 12 18:36:07	027369	LPU	Dec.	-0.9241	1.1965	0.1288	303	087	23.1S	167.4W	14	03	1125 B.C.E.		
06887	Nov	07	11:25 B.C.E.	06:41:11	1310827.7585944	-1125	Nov 07 14:17:19	027369	LNN	Asc.	-1.4238	0.2378	-0.7468	130	---	12.3N	102.3W	14	08	1125 B.C.E.		
06888	Dec	06	11:25 B.C.E.	17:41:24	1310857.2370886	-1125	Dec 07 01:17:33	027369	LNN	Asc.	1.2652	0.5225	-0.4497	185	---	22.9N	93.1E	14	09	1125 B.C.E.		
06889	May	02	11:24 B.C.E.	22:56:43	1311004.4560483	-1124	May 03 06:32:35	027352	LNN	Dec.	1.1110	0.8359	-0.1965	252	---	11.1S	105.0E	13	02	1124 B.C.E.		
06890	Oct	27	11:24 B.C.E.	18:43:20	1311182.2800892	-1124	Oct 28 02:19:11	027352	LPU	Asc.	-0.8008	1.4058	0.3718	298	134	9.0N	77.0E	15	08	1124 B.C.E.		
06891	Apr	22	11:23 B.C.E.	08:36:27	1311358.8564889	-1123	Apr 22 16:12:02	027333	LTU	Dec.	0.2973	2.3021	1.3229	327	207	7.9S	129.4W	13	01	1123 B.C.E.		
06892	Oct	16	11:23 B.C.E.	23:47:06	1311536.4910406	-1123	Oct 17 07:22:37	027333	LTU	Asc.	-0.1185	2.6842	1.5978	370	230	10.0	5.3N	1	2E	14	07	1123 B.C.E.
06893	Apr	12	11:22 B.C.E.	00:04:50	1311713.5033507	-1122	Apr 12 07:40:05	027315	LPU	Dec.	-0.4526	2.0001	1.0544	304	183	034	4.6S	0.8W	14	01	1122 B.C.E.	
06894	Oct	05	11:22 B.C.E.	23:20:52	1311890.4728195	-1122	Oct 06 06:56:07	027315	LPU	Asc.	0.5742	1.8549	0.7548	353	191	1.3N	8.1E	14	07	1122 B.C.E.		
06895	Mar	02	11:21 B.C.E.	08:30:55	1312038.8548039	-1121	Mar 02 16:05:51	027296	LNN	Dec.	1.4013	0.2772	-0.7037	142	---	12.2N	122.8W	14	12	1121 B.C.E.		
06896	Mar	31	11:21 B.C.E.	17:06:02	1312068.2125191	-1121	Apr 01 00:40:58	027296	LNN	Asc.	-1.1794	0.6708	-0.2833	208	---	1.2S	104.7E	15	01	1121 B.C.E.		
06897	Sep	24	11:21 B.C.E.	00:35:04	1312244.4234543	-1121	Sep 24 08:10:00	027296	LNN	Asc.	1.2425	0.6098	-0.4526	222	---	2.7S	10.1W	13	07	1121 B.C.E.		
06898	Feb	19	11:20 B.C.E.	19:00:55	1312393.2923037	-1120	Feb 19 02:35:31	027														

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar							
	Month	Day	Hour	Minute								Month	Day	Hour	Minute	Pen.	Par.	Pen.	Par.	Lat.	Lon.	Day	Month	Year	
06956	Jun	02	10:17	15:11:32	1320897	1330071	-1097	Jun	02	22:39:07	026853	LTU	Asc.	0.1416	2.6182	1.5785	360	228	100	20.5S	129.8E	13	03	1097	B.C.E.
06957	Nov	27	10:07	14:40:29	1321075	1114498	-1097	Nov	27	22:08:01	026853	LPU	Dec.	-0.6298	1.7149	0.6902	313	172	---	19.1N	138.0E	14	09	1097	B.C.E.
06958	May	22	10:09	20:58:56	1321251	4926708	-1096	May	22	07:16:43	026835	LPU	Asc.	0.8975	1.2037	0.2186	275	100	---	17.2S	0.5E	13	02	1096	B.C.E.
06959	Nov	16	10:06	08:03:51	1321429	3742630	-1096	Nov	16	04:26:11	026835	LNN	Dec.	-1.3716	0.3823	-0.6990	182	---	---	15.5N	43.0E	15	08	1096	B.C.E.
06960	Apr	13	10:05	01:53:44	1321576	8360097	-1095	Apr	13	15:30:48	026816	LPU	Asc.	-0.9072	1.1644	0.2219	256	085	---	5.8S	120.8W	14	01	1095	B.C.E.
06961	Oct	07	10:05	00:35:44	1321753	5789808	-1095	Oct	07	09:20:39	026816	LPU	Dec.	0.9736	1.1188	0.0253	296	039	---	2.3N	30.3W	13	07	1095	B.C.E.
06962	Apr	03	10:04	05:10:33	1321931	5248177	-1094	Apr	03	08:02:21	026798	LPU	Asc.	-0.1875	2.4970	1.5308	324	208	092	1.0S	7.4W	15	01	1094	B.C.E.
06963	Sep	26	10:04	12:32:29	1322107	7156592	-1094	Sep	26	12:37:13	026798	LTU	Dec.	0.2415	2.4370	1.3933	349	189	087	2.8S	78.6W	13	07	1094	B.C.E.
06964	Mar	22	10:03	15:53:26	1322286	0225591	-1093	Mar	22	19:58:48	026780	LPU	Asc.	0.5865	1.7924	0.7715	324	183	---	3.9N	174.7E	14	10	1093	B.C.E.
06965	Sep	14	10:03	00:28:12	1322462	1621047	-1093	Sep	14	23:19:47	026780	LPU	Dec.	-0.4740	1.9813	0.9953	313	189	---	7.8S	121.6E	12	06	1093	B.C.E.
06966	Feb	10	10:02	17:07:28	1322610	5195798	-1092	Feb	10	07:54:14	026761	LNN	Asc.	-1.5552	0.0501	-1.0402	070	---	---	16.2N	2.5W	14	11	1092	B.C.E.
06967	Mar	11	10:02	22:59:38	1322640	2135129	-1092	Mar	12	00:33:29	026761	LNN	Asc.	1.3746	0.3718	-0.6994	182	---	---	8.8N	107.2E	15	12	1092	B.C.E.
06968	Aug	05	10:02	07:28:32	1322787	4580753	-1092	Aug	06	06:25:39	026761	LNN	Dec.	1.4317	0.2085	-0.7468	120	---	---	18.5S	15.5E	14	05	1092	B.C.E.
06969	Sep	04	10:02	00:44:49	1322816	8114832	-1092	Sep	04	14:54:33	026761	LNN	Dec.	-1.1427	0.7403	-0.2181	215	---	---	12.4S	111.5W	13	06	1092	B.C.E.
06970	Jan	30	10:01	13:36:06	1322964	5111255	-1091	Jan	30	08:10:32	026743	LPU	Asc.	-0.8368	1.3595	0.2866	312	125	---	19.6N	6.9W	13	11	1091	B.C.E.
06971	Jul	26	10:01	06:52:26	1323214	0667361	-1091	Jul	26	21:01:48	026743	LPU	Dec.	0.7567	1.4659	0.4732	294	145	---	21.3S	156.2E	14	05	1091	B.C.E.
06972	Jan	19	10:00	12:05:15	1323318	7864092	-1090	Jan	19	14:17:52	026724	LPU	Asc.	-0.0893	2.7050	1.6836	343	220	100	22.3N	99.5W	13	11	1090	B.C.E.
06973	Jul	15	10:00	19:41:35	1323496	4203137	-1090	Jul	16	05:30:38	026724	LTU	Dec.	0.0092	2.8639	1.8189	361	230	105	23.3S	28.3E	15	04	1090	B.C.E.
06974	Jan	08	10:00	23:59:37	1323598	3205472	-1089	Jan	09	03:06:42	026706	LPU	Asc.	0.6041	1.7378	0.7610	298	168	---	24.1N	67.1E	14	10	1089	B.C.E.
06975	Jul	03	10:00	00:51:14	1323850	4997333	-1089	Jul	04	07:24:43	026706	LPU	Dec.	-0.7591	1.5017	0.4292	329	152	---	24.5S	1.0W	14	04	1089	B.C.E.
06976	Nov	29	10:00	11:29:47	1324027	9790209	-1089	Nov	29	07:56:20	026706	LNN	Asc.	-1.4299	0.2293	-0.7596	128	---	---	18.7N	9.1W	14	09	1089	B.C.E.
06977	Dec	28	10:00	12:30:04	1324277	0298755	-1089	Dec	28	18:54:53	026706	LNN	Asc.	1.2591	0.5330	-0.4378	187	---	---	25.1N	171.3W	14	10	1089	B.C.E.
06978	May	24	10:00	01:04:56	1324454	5450908	-1088	May	24	19:54:52	026688	LNN	Dec.	1.2660	0.5475	-0.4770	208	---	---	17.4S	170.6E	13	02	1088	B.C.E.
06979	Jun	23	10:00	11:53:36	1324204	5450908	-1088	Jun	23	08:29:44	026688	LNN	Dec.	-1.4857	0.1579	-0.8934	119	---	---	24.8S	18.2W	13	03	1088	B.C.E.
06980	Nov	18	10:00	23:09:43	1324529	9555601	-1088	Nov	18	19:18:24	026688	LPU	Asc.	-0.8089	1.3950	0.3530	300	131	---	16.5N	179.5E	14	08	1088	B.C.E.
06981	Nov	07	10:00	16:05:05	1324707	4650772	-1087	Nov	07	23:29:33	026669	LTU	Dec.	0.4457	0.2057	1.0547	316	192	035	15.1S	10.8E	13	02	1087	B.C.E.
06982	Nov	07	10:00	15:12:46	1324759	7101991	-1087	Nov	07	23:29:33	026669	LPU	Asc.	-0.1330	2.6612	1.5677	372	231	099	13.6N	116.1E	15	08	1087	B.C.E.
06983	May	03	10:00	15:12:46	1324884	1338714	-1086	May	03	22:36:59	026652	LTU	Dec.	-0.3101	2.2594	1.3181	311	195	076	12.4S	130.3E	13	02	1086	B.C.E.
06984	Oct	27	10:00	00:01:48	1325009	5012554	-1085	Oct	27	22:39:19	026652	LPU	Asc.	0.5480	1.9045	0.8014	355	195	---	10.0N	128.5E	14	08	1086	B.C.E.
06985	Apr	24	10:00	08:16:49	1325238	8450098	-1085	Apr	24	07:25:41	026633	LNN	Dec.	-1.0529	0.9031	-0.0512	236	---	---	9.4S	125.1W	14	01	1085	B.C.E.
06986	Oct	15	10:00	16:51:46	1325415	2026168	-1085	Oct	16	00:15:39	026633	LNN	Asc.	1.2051	0.6779	-0.3838	232	---	---	6.2N	104.4E	13	07	1085	B.C.E.
06987	Mar	13	10:00	09:56:59	1325563	9145691	-1084	Mar	13	17:20:33	026615	LPU	Asc.	0.8320	1.3513	0.3119	303	127	---	7.6N	145.3W	14	12	1084	B.C.E.
06988	Sep	05	10:00	15:00:51	1325740	1255890	-1084	Sep	05	22:24:26	026615	LPU	Asc.	-0.8702	1.2471	0.2751	268	105	---	11.6S	135.5E	13	06	1084	B.C.E.
06989	Mar	02	10:00	12:35:54	1325918	0249300	-1083	Mar	02	19:59:10	026597	LTU	Asc.	0.1034	2.7094	1.6280	375	234	103	11.1N	175.4E	14	12	1083	B.C.E.
06990	Aug	26	10:00	07:14:30	1326094	8019652	-1083	Aug	26	14:38:06	026597	LTU	Asc.	-0.1674	2.5295	1.5720	317	204	093	14.6S	108.0W	14	06	1083	B.C.E.
06991	Feb	19	10:00	12:37:36	1326272	0261166	-1082	Feb	19	20:00:35	026578	LPU	Dec.	-0.6209	1.7569	0.6813	341	182	---	14.3N	175.1E	13	12	1082	B.C.E.
06992	Aug	15	10:00	22:47:58	1326449	4360822	-1082	Aug	16	05:50:54	026578	LPU	Asc.	0.5584	1.8267	0.8401	310	180	---	17.1S	23.5E	15	05	1082	B.C.E.
06993	Jan	10	10:00	04:28:12	1326596	7001427	-1081	Jan	10	12:10:53	026560	LNN	Dec.	1.4575	0.1873	-0.8197	120	---	---	24.8N	69.1W	13	10	1081	B.C.E.
06994	Feb	08	10:00	17:22:15	1326626	2273892	-1081	Feb	09	00:44:55	026560	LNN	Asc.	-1.3038	0.4802	-0.5485	193	---	---	16.9N	103.7E	13	11	1081	B.C.E.
06995	Jul	05	10:00	18:40:14	1326774	2779382	-1081	Jul	06	02:02:54	026560	LNN	Asc.	-1.4482	0.2286	-0.8267	143	---	---	25.1S	179.2E	15	04	1081	B.C.E.
06996	Aug	04	10:00	08:16:48	1326803	8449984	-1081	Aug	04	15:39:29	026560	LNN	Asc.	1.3516	0.3976	-0.6411	181	---	---	19.1S	124.0W	14	05	1081	B.C.E.
06997	Dec	29	10:00	18:52:00	1326951	2861075	-1081	Dec	30	02:14:40	026560	LPU	Dec.	0.7381	1.4893	0.5178	282	141	---	24.6N	78.5E	14	10	1081	B.C.E.
06998	Jun	24	10:00	19:37:15	1327128	3175372	-1080	Jun	25	02:59:37	026542	LPU	Asc.	-0.7200	1.5725	0.5020	333	163	---	24.2S	64.1E	14	03	1080	B.C.E.
06999	Dec	19	10:00	10:36:35	1327305	9420755	-1080	Dec	19	17:58:56	026542	LPU	Dec.	0.0722	2.7152	1.7359	323	209	097	23.4N	159.0W	14	09	1080	B.C.E.
07000	Jun	13	10:00	21:53:46	1327482	4123332	-1079	Jun	14	05:15:51	026523	LTU	Asc.	0.0578	2.7709	1.7335	360	230	104	22.4S	29.4E	13	03	1079	B.C.E.</

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)			(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar	
	Month	Day	Time	Year	Month	Day								Time	Pen.	Par.	Lat.	Lon.	Day
07063	Jan	30	1053 B.C.E.	12:49:16	1336844	0342181	-1053 Jan 30 20:03:28	026051	LPU	Asc.	0.5659	1.8036	0.8353	300	172	---	20.8N	172.2E	13 11 1053 B.C.E.
07064	Jul	25	1053 B.C.E.	13:21:21	1337021	0564905	-1053 Jul 25 20:35:32	026051	LPU	Dec.	-0.6120	1.7746	0.6962	347	186	---	22.6S	159.9E	13 05 1053 B.C.E.
07065	Dec	20	1053 B.C.E.	18:13:45	1337169	2595456	-1053 Dec 21 01:27:55	026051	LNN	Asc.	-1.4401	0.2113	-0.7799	124	---	---	22.1N	87.2E	15 10 1053 B.C.E.
07066	Jan	19	1052 B.C.E.	04:55:45	1337198	7053830	-1052 Jan 19 12:09:38	026033	LNN	Asc.	1.2373	0.5718	-0.3965	193	---	---	23.5N	70.2W	14 11 1052 B.C.E.
07067	Jun	15	1052 B.C.E.	02:12:29	1337345	5920014	-1052 Jun 15 09:26:22	026033	LNN	Dec.	1.4153	0.2707	-0.7480	149	---	---	21.4S	34.9W	13 03 1052 B.C.E.
07068	Jul	14	1052 B.C.E.	14:40:41	1337375	1115908	-1052 Jul 14 21:54:34	026033	LNN	Dec.	-1.3312	0.4407	-0.6094	193	---	---	24.6S	139.4E	13 04 1052 B.C.E.
07069	Dec	10	1052 B.C.E.	05:01:59	1337523	7097162	-1052 Dec 10 12:15:51	026033	LPU	Asc.	-0.8149	1.3865	0.3393	301	130	---	21.5N	76.1W	14 09 1052 B.C.E.
07070	Jun	04	1051 B.C.E.	13:43:46	1337700	0720569	-1051 Jun 04 20:57:22	026015	LPU	Dec.	0.5962	1.7466	0.7813	303	171	---	20.4S	151.9E	13 03 1051 B.C.E.
07071	Nov	29	1051 B.C.E.	08:28:54	1337877	8533999	-1051 Nov 29 15:42:27	026015	LTU	Asc.	-0.1405	2.6494	1.5519	374	231	099	20.0N	129.0W	14 09 1051 B.C.E.
07072	May	25	1050 B.C.E.	06:12:46	1338054	7588643	-1050 May 25 13:26:03	025997	LTU	Dec.	-0.1604	2.5332	1.5937	315	202	094	18.8S	95.6W	14 02 1050 B.C.E.
07073	Nov	18	1050 B.C.E.	07:27:46	1338231	8109497	-1050 Nov 18 14:41:04	025997	LPU	Asc.	0.5355	1.9275	0.8245	355	197	---	17.5N	114.6W	13 08 1050 B.C.E.
07074	May	13	1049 B.C.E.	23:07:51	1338409	4637857	-1049 May 14 06:20:50	025979	LPU	Dec.	-0.9119	1.1631	0.2060	262	087	---	16.6S	10.7E	15 02 1049 B.C.E.
07075	Nov	06	1049 B.C.E.	09:36:32	1338585	9003758	-1049 Nov 06 16:49:32	025979	LNN	Asc.	1.1875	0.7089	-0.3499	235	---	---	14.5N	147.3W	12 08 1049 B.C.E.
07076	Apr	04	1048 B.C.E.	00:13:10	1338734	5091185	-1048 Apr 04 07:25:51	025961	LPU	Dec.	0.9665	1.1049	0.0646	283	060	---	0.8S	1.4W	15 01 1048 B.C.E.
07077	Sep	27	1048 B.C.E.	07:56:50	1338910	8311315	-1048 Sep 27 15:09:32	025962	LPU	Dec.	-0.9134	1.1690	0.1949	261	088	---	3.1S	119.8W	13 07 1048 B.C.E.
07078	Mar	24	1047 B.C.E.	02:27:17	1339088	6022839	-1047 Mar 24 09:39:41	025944	LTU	Dec.	0.2300	2.4746	1.3981	317	229	091	3.0N	34.2W	14 13 1047 B.C.E.
07079	Sep	16	1047 B.C.E.	23:59:53	1339265	4999232	-1047 Sep 17 07:12:17	025944	LPU	Asc.	-0.2279	2.4221	1.4572	317	202	087	6.7S	0.2W	14 06 1047 B.C.E.
07080	Jan	13	1046 B.C.E.	03:00:38	1339442	6254375	-1046 Jan 13 10:12:45	025926	LPU	Dec.	-0.5119	1.9513	0.8870	349	200	---	6.7N	41.8W	13 12 1046 B.C.E.
07081	Sep	06	1046 B.C.E.	14:28:42	1339620	1032687	-1046 Sep 06 21:40:47	025926	LPU	Asc.	0.4855	1.9667	0.9678	319	191	---	10.1S	119.8W	14 06 1046 B.C.E.
07082	Jan	31	1045 B.C.E.	21:32:13	1339776	3973767	-1045 Jan 31 04:44:00	025907	LNN	Dec.	1.4873	0.1269	-0.8687	098	---	---	21.4N	42.0E	13 11 1045 B.C.E.
07083	Mar	01	1045 B.C.E.	08:55:22	1339796	8717847	-1045 Mar 01 16:07:09	025907	LNN	Dec.	-1.2172	0.6325	-0.3829	216	---	---	10.1N	130.0W	13 12 1045 B.C.E.
07084	Aug	25	1045 B.C.E.	23:08:47	1339974	4644304	-1045 Aug 26 06:20:34	025907	LNN	Asc.	1.2627	0.5673	-0.4844	215	---	---	13.2S	12.9E	15 06 1045 B.C.E.
07085	Jan	20	1044 B.C.E.	12:16:04	1340122	1011554	-1044 Jan 20 19:27:33	025889	LPU	Dec.	0.7643	1.4380	0.4728	278	134	---	22.8N	180.0W	13 11 1044 B.C.E.
07086	Jul	16	1044 B.C.E.	08:49:40	1340298	8678262	-1044 Jul 16 16:01:10	025889	LPU	Asc.	-0.8745	1.2905	0.2169	312	112	---	24.0S	132.5W	13 04 1044 B.C.E.
07087	Jan	10	1043 B.C.E.	09:49:12	1340476	6730567	-1043 Jan 10 11:20:22	025871	LPU	Dec.	0.0894	2.6833	1.7046	324	210	097	23.4N	59.1W	14 10 1043 B.C.E.
07088	Jul	05	1043 B.C.E.	11:35:58	1340652	9833100	-1043 Jul 05 18:47:12	025871	LTU	Asc.	-0.0981	2.6954	1.6611	356	228	102	23.9S	174.9W	13 04 1043 B.C.E.
07089	Dec	30	1043 B.C.E.	16:30:17	1340831	1876964	-1043 Dec 30 23:41:27	025871	LPU	Dec.	-0.6267	1.7233	0.6933	317	173	---	23.2N	113.9E	15 10 1043 B.C.E.
07090	Jun	24	1042 B.C.E.	21:31:40	1341007	3969855	-1042 Jun 25 04:42:34	025853	LPU	Asc.	0.6650	1.6265	0.6489	300	162	---	22.9S	35.5E	13 03 1042 B.C.E.
07091	Dec	19	1042 B.C.E.	14:46:15	1341185	4071148	-1042 Dec 20 04:57:08	025853	LNN	Dec.	-1.3712	0.3856	-0.7007	185	---	---	22.1N	33.6E	15 09 1042 B.C.E.
07092	May	15	1041 B.C.E.	06:44:24	1341363	7808337	-1041 May 15 13:54:59	025835	LNN	Asc.	-1.1773	0.7776	-0.1622	219	---	---	17.3S	103.4W	14 02 1041 B.C.E.
07093	Jun	13	1041 B.C.E.	13:14:13	1341362	0515377	-1041 Jun 13 20:24:48	025835	LNN	Asc.	1.3658	0.3227	-0.6194	147	---	---	21.1S	159.4E	13 03 1041 B.C.E.
07094	Nov	08	1041 B.C.E.	02:06:20	1341509	5877361	-1041 Nov 08 09:16:56	025835	LNT	Dec.	0.9949	1.0798	-0.0139	291	---	---	15.0N	34.5W	13 08 1041 B.C.E.
07095	Apr	04	1040 B.C.E.	22:56:42	1341687	0560444	-1040 Apr 05 06:06:58	025817	LPU	Asc.	-0.3985	2.1117	1.1419	319	196	055	13.3S	14.3E	15 02 1040 B.C.E.
07096	Oct	28	1040 B.C.E.	06:14:07	1341863	7598058	-1040 Oct 28 13:24:26	025817	LTU	Dec.	0.2701	2.3831	1.3423	344	215	082	10.4N	96.2W	13 08 1040 B.C.E.
07097	Apr	24	1039 B.C.E.	09:51:22	1342041	9106672	-1039 Apr 24 17:01:19	025799	LPU	Asc.	0.3814	2.1707	1.1458	343	210	058	8.8S	148.3W	14 01 1039 B.C.E.
07098	Oct	17	1039 B.C.E.	17:39:24	1342218	3256925	-1039 Oct 18 00:49:24	025799	LPU	Dec.	-0.4277	2.0665	1.0800	314	192	042	5.5N	93.1E	13 07 1039 B.C.E.
07099	Apr	13	1038 B.C.E.	13:30:48	1342396	0630586	-1038 Apr 13 20:40:29	025781	LNN	Asc.	1.1742	0.7378	-0.3300	249	---	---	4.0S	158.1E	14 01 1038 B.C.E.
07100	Oct	07	1038 B.C.E.	09:11:20	1342572	8828723	-1038 Oct 07 16:21:01	025781	LNN	Dec.	-1.0824	0.8552	-0.1115	228	---	---	0.6N	139.1W	13 07 1038 B.C.E.
07101	Mar	02	1037 B.C.E.	23:14:48	1342720	4686142	-1037 Mar 03 06:24:11	025763	LPU	Asc.	-0.9527	1.1374	0.0829	289	069	---	9.7N	15.3E	13 12 1037 B.C.E.
07102	Aug	27	1037 B.C.E.	12:45:56	1342898	0318973	-1037 Aug 27 19:55:18	025763	LPU	Dec.	0.9060	1.2017	0.1898	279	098	---	12.9S	168.9E	14 06 1037 B.C.E.
07103	Feb	20	1036 B.C.E.	07:06:06	1343074	7959079	-1036 Feb 20 14:15:14	025745	LTU	Asc.	-0.1771	2.5343	1.5320	336	216	094	14.1N	101.9W	13 12 1036 B.C.E.
07104	Apr	16	1036 B.C.E.	19:28:31	1343252	3114650	-1036 Apr 17 02:37:34	025745	LTU	Dec.	0.1905	2.5403	1.4773	364	227	095	16.9S	68.6E	15 05 1036 B.C.E.
07105	Feb	09	1035 B.C.E.	21:10:57	1343429	3826050	-1035 Feb 10 04:19:45	025727	LPU	Asc.	0.5363	1.8557	0.8918	301	176	---	18.1N	47.1E	14 11 1035 B.C.E.
07106	Aug	05	1035 B.C.E.	20:14:03	1343606	3430855	-1035 Aug 06 03:22:51	025727	LPU	Dec.	-0.5478	1.8940	0.8124	353	197	---	20.5S	57.2E	14 05 1035 B.C.E.
07107	Jan	01	1034 B.C.E.	02:58:58	1343754	6239680	-1034 Jan 01 10:07:00	025710	LNN	Asc.	-1.4503	0.1927	-0.7988	119	---	---	22.4N	42.8W	14 10 1034 B.C.E.
07108	Jan	30	1034 B.C.E.	13:27:13	1343930	8605631	-1034 Jan 30 20:35:42	025710	LNN	Asc.	1.2179	0.6066	-0.3600	198	---	---	21.4N	162.8E	14 11 1034 B.C.E.
07109	Jun	26	1034 B.C.E.	09:11:12	1343974	8827729	-1034 Jun 26 16:19:42	025710	LNN	Dec.	1.4848	0.1420	-0.8746	109	---	---	22.2S	139.1W	13 04 1034 B.C.E.
07110	Jul	25	1034 B.C.E.	21:41:12	1343960	4036062	-1034 Jul 26 04:49:42	025710	LNN	Dec.	-1.2623	0.5673	-0.4828	216	---	---	23.2S	35.0E	13 05 1034 B.C.E.
07111	Dec	21	1034 B.C.E.	13:30:40	1344109	0629684	-1034 Dec 21 20:39:10	025710	LPU	Asc.	-0.8215	1.3754	0.3265	301	128	---	22.7N	157.8E	14 10 1034 B.C.E.
07112	Jun	14	1033 B.C.E.	21:04:59	1344285	3784604	-1033 Jun 15 04:13:12	025692	LPU	Dec.	0.6690	1.6121	0.6487	295	158	---	22.0S	41.9E	15 03 1033 B.C.E.
07113	Dec	09	1033 B.C.E.	16:39:45	1344463	1924742	-1033 Dec 09 23:47:56	025692	LTU	Asc.	-0.14								

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar Day Month Year	
07170	Aug 06 1008 B.C.E.	22:32:53	1353469.4395050	-1008	Aug 07 05:33:40	025246	LNT	Asc. -1.0042	1.0546	-0.0228	289	--- ---	20.5S 22.8E	14 05 1008 B.C.E.
07171	Jan 31 1007 B.C.E.	21:12:28	1353647.3836575	-1007	Feb 01 04:12:55	025228	LTU	Dec. 0.1293	2.6093	1.6320	324	209 096	19.9N 46.5E	15 11 1007 B.C.E.
07172	Jul 27 1007 B.C.E.	01:49:28	1353823.5760242	-1007	Jul 27 08:49:59	025228	LTU	Dec. -0.2321	2.4486	1.4159	351	221 090	22.0S 27.0W	13 05 1007 B.C.E.
07173	Jan 21 1006 B.C.E.	09:11:32	1354001.8830140	-1006	Jan 21 16:11:41	025210	LPU	Dec. -0.6018	1.7696	0.7383	321	179	21.4N 134.2W	14 11 1006 B.C.E.
07174	Jul 16 1006 B.C.E.	12:25:41	1354178.0178352	-1006	Jul 16 19:25:52	025210	LPU	Asc. 0.5264	1.8798	0.9042	311	183	22.7S 173.2E	13 04 1006 B.C.E.
07175	Jan 10 1005 B.C.E.	13:53:51	1354356.0790625	-1005	Jan 10 20:53:44	025193	LNN	Dec. -1.3537	0.4177	-0.6684	192	---	22.1N 154.1E	14 10 1005 B.C.E.
07176	Jun 05 1005 B.C.E.	21:42:22	1354503.4044200	-1005	Jun 06 04:42:15	025193	LNN	Asc. -1.2645	0.5084	-0.4331	182	---	22.6S 32.0E	14 03 1005 B.C.E.
07177	Jul 05 1005 B.C.E.	04:24:29	1354532.6836683	-1005	Jul 05 11:24:22	025193	LNN	Asc. 1.2284	0.5757	-0.3680	192	---	22.5S 67.2W	14 04 1005 B.C.E.
07178	Nov 29 1005 B.C.E.	18:33:43	1354680.2734086	-1005	Nov 30 01:33:36	025193	LNT	Dec. 0.9962	1.0756	-0.0145	289	---	21.3N 79.7E	13 09 1005 B.C.E.
07179	May 26 1004 B.C.E.	13:28:31	1354858.0614731	-1004	May 26 20:28:05	025175	LPU	Asc. -0.5539	1.8291	0.8540	310	180	19.7S 155.5E	14 02 1004 B.C.E.
07180	Nov 18 1004 B.C.E.	23:24:59	1355034.4756880	-1004	Nov 19 06:24:37	025175	LTU	Dec. 0.2700	2.3810	1.3447	342	214 082	17.8N 6.3E	13 08 1004 B.C.E.
07181	May 15 1003 B.C.E.	23:31:41	1355212.4803367	-1003	May 16 06:30:56	025157	LTU	Asc. 0.2224	2.4649	1.4352	353	222 092	16.1S 5.1E	15 02 1003 B.C.E.
07182	Nov 08 1003 B.C.E.	11:20:10	1355388.9723405	-1003	Nov 08 18:19:28	025157	LTU	Dec. -0.4196	2.0806	1.0953	313	193 045	13.7N 172.7W	13 08 1003 B.C.E.
07183	May 05 1002 B.C.E.	02:32:50	1355566.6061381	-1002	May 05 09:31:49	025139	LNT	Asc. 1.0135	1.0322	-0.0348	286	---	12.0S 39.4W	14 02 1002 B.C.E.
07184	Oct 29 1002 B.C.E.	02:51:26	1355743.6190473	-1002	Oct 29 09:50:25	025139	LNN	Dec. -1.0694	0.8813	-0.0899	232	---	9.3N 45.2W	14 08 1002 B.C.E.
07185	Mar 24 1001 B.C.E.	13:37:40	1355921.0678234	-1001	Mar 24 20:36:22	025121	LNN	Asc. -1.0627	0.9294	-0.1126	264	---	1.3N 157.7E	13 13 1001 B.C.E.
07186	Sep 18 1001 B.C.E.	04:48:15	1356068.7001710	-1001	Sep 18 11:46:55	025121	LPU	Dec. 0.9711	1.0084	0.0639	271	058	4.8S 72.8W	14 06 1001 B.C.E.
07187	Mar 13 1000 B.C.E.	22:39:21	1356245.4439876	-1000	Mar 14 05:37:47	025104	LTU	Asc. -0.2692	2.3589	1.3692	330	210 083	6.2N 23.5E	13 12 1000 B.C.E.
07188	Sep 07 1000 B.C.E.	10:21:09	1356422.9313529	-1000	Sep 07 17:19:32	025104	LTU	Dec. 0.2765	2.3885	1.3136	364	223 082	9.6S 155.2W	14 06 1000 B.C.E.
07189	Mar 03 999 B.C.E.	13:32:41	1356600.463624	-0999	Mar 03 20:30:47	025086	LTU	Asc. 0.4585	1.9943	1.0387	305	184 029	10.9N 161.2E	13 12 999 B.C.E.
07190	Aug 27 999 B.C.E.	10:28:00	1356776.9361141	-0999	Aug 27 17:26:07	025086	LTU	Dec. -0.4421	2.0912	1.0034	362	211 009	14.2S 156.3W	13 06 999 B.C.E.
07191	Jan 22 998 B.C.E.	20:07:00	1356952.3381961	-0998	Jan 23 03:04:48	025068	LNN	Asc. -1.4858	0.1276	-0.8640	098	---	20.2N 62.1E	15 11 998 B.C.E.
07192	Feb 21 998 B.C.E.	06:05:17	1356925.7367229	-0998	Feb 21 13:03:05	025068	LNN	Asc. 1.1607	0.7101	-0.2536	213	---	15.2N 86.4E	14 12 998 B.C.E.
07193	Aug 16 998 B.C.E.	12:11:09	1357131.0077464	-0998	Aug 16 19:08:58	025068	LNN	Dec. -1.1443	0.7839	-0.2666	247	---	18.3S 178.2E	13 05 998 B.C.E.
07194	Jan 12 997 B.C.E.	06:10:09	1357279.7570488	-0997	Jan 12 13:07:38	025050	LPU	Asc. -0.8466	1.3303	0.2795	300	120	22.4N 89.6W	14 10 997 B.C.E.
07195	Jul 06 997 B.C.E.	12:01:25	1357456.0009797	-0997	Jul 06 18:58:55	025050	LPU	Dec. 0.8044	1.3626	0.4013	277	125	23.0S 178.9E	13 04 997 B.C.E.
07196	Dec 31 997 B.C.E.	08:46:38	1357633.8657181	-0997	Dec 31 15:44:07	025050	LPU	Asc. -0.1029	2.6085	1.5108	375	231 097	23.7N 130.0W	14 10 997 B.C.E.
07197	Jun 26 996 B.C.E.	04:47:21	1357810.6995450	-0996	Jun 26 11:44:34	025033	LTU	Dec. 0.0604	2.7179	1.7760	317	205 099	23.6S 73.3W	14 04 996 B.C.E.
07198	Dec 20 996 B.C.E.	07:53:06	1357987.8285456	-0996	Dec 20 14:50:21	025034	LPU	Asc. 0.5198	1.9530	0.8564	355	199	23.9N 118.1W	13 10 996 B.C.E.
07199	Jun 15 995 B.C.E.	21:10:21	1358164.3821820	-0995	Jun 16 04:07:16	025016	LPU	Dec. -0.6934	1.5686	0.6026	293	154	23.5S 40.3E	15 03 995 B.C.E.
07200	Dec 09 995 B.C.E.	11:06:31	1358341.9628636	-0995	Dec 09 18:03:28	025016	LNN	Asc. 1.1741	0.7287	-0.3208	235	---	23.2N 167.9E	12 09 995 B.C.E.
07201	May 06 994 B.C.E.	20:39:49	1358519.3609866	-0994	May 07 03:36:27	024998	LNN	Dec. 1.2065	0.6666	-0.3774	232	---	12.5S 49.0E	15 02 994 B.C.E.
07202	Jan 05 994 B.C.E.	08:41:57	1358696.8264697	-0994	Jan 05 15:38:36	024998	LNN	Dec. -1.5152	0.0868	-0.9309	086	---	22.5S 133.2W	14 03 994 B.C.E.
07203	Oct 30 994 B.C.E.	10:15:23	1358874.4288899	-0994	Oct 30 17:12:02	024998	LPU	Asc. -0.9375	1.1256	0.1499	256	076	10.0N 156.1W	13 08 994 B.C.E.
07204	Apr 24 993 B.C.E.	22:17:36	1359052.0488999	-0993	Apr 25 03:13:57	024980	LPU	Dec. 0.4652	2.0401	0.9695	358	209	9.3S 25.1E	14 01 993 B.C.E.
07205	Oct 19 993 B.C.E.	02:00:32	1359231.5837088	-0993	Oct 19 08:56:52	024980	LTU	Asc. -0.2736	2.3437	1.3682	317	201 080	6.5N 32.3W	14 07 993 B.C.E.
07206	Apr 13 992 B.C.E.	23:45:28	1359409.8990229	-0992	Apr 14 06:41:32	024963	LTU	Dec. -0.3007	2.3306	1.2823	357	221 079	5.8S 3.9E	13 01 992 B.C.E.
07207	Oct 08 992 B.C.E.	15:23:33	1359587.1413583	-0992	Oct 08 22:19:35	024963	LTU	Asc. 0.4256	2.0855	1.0690	327	199 040	2.9N 127.1E	14 07 992 B.C.E.
07208	Apr 03 991 B.C.E.	07:23:24	1359765.8079208	-0991	Apr 03 14:19:09	024945	LNN	Dec. -1.0370	0.9535	-0.0430	253	---	2.2S 109.9W	13 01 991 B.C.E.
07209	Sep 27 991 B.C.E.	22:24:49	1359943.438976	-0991	Sep 28 05:20:34	024945	LNN	Asc. 1.1798	0.7287	-0.3415	242	---	1.0S 22.5E	14 07 991 B.C.E.
07210	Feb 22 990 B.C.E.	13:26:15	1359978.0598991	-0990	Feb 22 20:21:42	024927	LPU	Dec. 0.8521	1.2718	0.3169	266	108	14.4N 166.1E	13 12 990 B.C.E.
07211	Aug 18 990 B.C.E.	05:39:41	1360054.7358893	-0990	Aug 18 12:35:09	024927	LNN	Asc. -1.0572	0.9882	-0.1211	278	---	17.6S 83.8W	13 05 990 B.C.E.
07212	Feb 12 989 B.C.E.	03:31:27	1360232.7301718	-0989	Feb 12 10:26:34	024909	LTU	Dec. 0.1595	2.5535	1.5771	325	209 094	17.0N 78.0W	14 11 989 B.C.E.
07213	Aug 06 989 B.C.E.	09:09:52	1360408.8818544	-0989	Aug 06 16:05:03	024909	LTU	Asc. -0.2896	2.3429	1.3106	347	217 080	19.9S 136.7W	13 05 989 B.C.E.
07214	Jan 31 988 B.C.E.	17:18:38	1360587.2212745	-0988	Feb 01 00:13:29	024892	LPU	Dec. -0.5794	1.8109	0.7794	324	183	19.2N 104.7E	15 11 988 B.C.E.
07215	Jul 26 988 B.C.E.	03:03:54	1360763.3360402	-0988	Jul 27 02:58:47	024892	LTU	Asc. 0.4648	1.9928	1.0175	314	189 020	21.3S 59.2E	13 05 988 B.C.E.
07216	Jan 20 987 B.C.E.	21:44:41	1360941.4062623	-0987	Jan 21 04:39:14	024874	LNN	Dec. -1.3321	0.4511	-0.6339	200	---	20.8N 37.3E	15 11 987 B.C.E.
07217	Jun 17 987 B.C.E.	05:12:08	1361118.7167623	-0987	Jun 17 12:06:42	024874	LNN	Asc. -1.3371	0.3762	-0.5673	159	---	24.3S 80.0W	14 03 987 B.C.E.
07218	Jan 16 987 B.C.E.	12:07:02	1361188.0048992	-0987	Jan 16 19:01:37	024874	LNN	Asc. 1.1653	0.6923	-0.2530	208	---	22.0S 177.8E	13 04 987 B.C.E.
07219	Dec 11 987 B.C.E.	02:48:10	1361265.6167805	-0987	Dec 11 09:42:44	024874	LNT	Dec. 0.9973	1.0721	-0.0149	288	---	23.3N 42.9W	13 09 987 B.C.E.
07220	Jun 06 986 B.C.E.	20:42:04	1361443.3625410	-0986	Jun 07 03:36:19	024856	LPU	Dec. -0.6322	1.6873	0.7085	305	168	22.0S 47.2E	15 03 986 B.C.E.
07221	Nov 30 986 B.C.E.	08:03:34	1361619.8358046	-0986	Nov 30 14:57:52	024856	LTU	Dec. 0.2686	2.3819	1.3489	341	213 082	20.6N 122.7W	13 09 986 B.C.E.
07222	May 26 985 B.C.E.	06:16:38	1361797.7615510	-0985	May 26 13:10:35	024839	LPU	Asc. 0.1398	2.6181	1.5851	357	227 100	19.0S 95.5W	14 02 985 B.C.E.
07223	Nov 18 985 B.C.E.	20:16:07	1361974.3445209	-0985	Nov 19 03:10:07	024839	LPU	Dec. -0.4196	2.0800	1.0959	313	192 045	17.2S 53.6E	13 08 985 B.C.E.
07224	May 15 984 B.C.E.	08:56:58	1362151.8728878	-0984	May 15 15:50:38	024821	LPU	Asc. 0.9274	1.1903	0.1232	303	085	15.4S 136.1W	14 02 984 B.C.E.
07225	Nov 08 984 B.C.E.	11:48:11	1362328.9917927	-0984	Nov 08 18:41:52	024821	LNN	Dec. -1.0688	0.8834	-0.0896	232	---	13.2N 179.5W	13 08 984 B.C.E.
07226	Apr 04 983 B.C.E.	20:40:30	1362476.3614634	-0983	Apr 05 03:33:54	024803	LNN	Dec. -1.1257	0.8108	-0.2253	249	---	3.0S 50.9E	13 01 983 B.C.E.
07227	Sep 29 983 B.C.E.	13:00												

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar							
	Year	Month	Day	Time (UT)	Julian Date (UT)	Year	Month	Day	Time (UT)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Year	Month	Day			
07277	Jul	28	961	B.C.E.	03:23:48	1370626	6415234	-0961	Jul 28 10:10:47	024419	LPU	Dec.	0.9205	1.1496	0.1881	260	083	---	20.6S	50.6W	13	05	961	B.C.E.
07278	Jan	22	960	B.C.E.	00:26:22	1370784	5183121	-0960	Jan 22 07:13:02	024401	LTU	Asc.	-0.2020	2.5351	1.4407	374	230	094	21.5N	2.7W	14	11	960	B.C.E.
07279	Jul 17	960	B.C.E.	00:08:32	1370981	3392542		-0960	Jul 18 02:55:12	024401	LTU	Dec.	0.1919	2.4789	1.5323	315	202	091	22.8S	57.7E	14	04	960	B.C.E.
07280	Jan 10	959	B.C.E.	23:52:15	1371158	4946169		-0959	Jan 11 06:38:40	024384	LPU	Asc.	0.4923	1.9994	0.9109	355	202	---	23.7N	4.8E	13	10	959	B.C.E.
07281	Jul 07	959	B.C.E.	11:58:25	1371335	9989003		-0959	Jul 07 18:44:48	024384	LPU	Dec.	-0.5562	1.8250	0.8499	309	179	---	24.3S	179.6E	14	04	959	B.C.E.
07282	Dec 31	959	B.C.E.	04:00:48	1371512	6672185		-0959	Dec 31 10:47:12	024384	LNN	Asc.	1.1569	0.7556	-0.2845	237	---	---	24.9N	58.7W	13	10	959	B.C.E.
07283	May 28	958	B.C.E.	09:52:39	1371660	9115604		-0958	May 28 16:38:44	024366	LNN	Dec.	1.3803	0.3501	-0.6987	175	---	---	18.4S	150.0W	14	03	958	B.C.E.
07284	Jun 26	958	B.C.E.	22:28:28	1371690	4364393		-0958	Jun 27 05:14:35	024366	LNN	Dec.	-1.3708	0.3564	-0.6707	171	---	---	25.0S	21.3E	15	04	958	B.C.E.
07285	Nov 21	958	B.C.E.	04:09:50	1371837	6734930		-0958	Nov 21 10:55:56	024366	LPU	Asc.	-0.9377	1.1269	0.1498	256	075	---	17.2N	64.5W	13	09	958	B.C.E.
07286	May 16	957	B.C.E.	11:07:04	1372014	9632365		-0957	May 16 17:52:53	024349	LPU	Dec.	0.6403	1.7176	0.6495	342	181	---	16.2S	168.6W	13	02	957	B.C.E.
07287	Nov 09	957	B.C.E.	19:46:12	1372192	3237514		-0957	Nov 10 02:32:00	024349	LTU	Asc.	-0.2819	2.3311	1.3503	318	202	079	14.6N	60.8E	14	08	957	B.C.E.
07288	May 05	956	B.C.E.	13:14:18	1372369	0516028		-0956	May 05 19:59:53	024332	LTU	Dec.	-0.1382	2.6242	1.5850	359	228	100	13.4S	159.9E	13	02	956	B.C.E.
07289	Oct 30	956	B.C.E.	08:29:24	1372546	8537453		-0956	Oct 30 15:14:54	024332	LTU	Asc.	0.4135	1.1126	1.0862	331	201	044	11.5N	130.2W	14	08	956	B.C.E.
07290	Apr 24	955	B.C.E.	21:58:22	1372723	4155285		-0955	Apr 25 04:43:38	024315	LPU	Dec.	-0.8918	1.2147	0.2287	275	102	---	10.3S	29.3E	13	01	955	B.C.E.
07291	Oct 19	955	B.C.E.	14:29:39	1372901	1039254		-0955	Oct 19 21:14:54	024315	LNN	Asc.	1.1543	0.7407	-0.2998	251	---	---	7.8N	139.7E	14	07	955	B.C.E.
07292	Mar 16	954	B.C.E.	05:34:30	1373048	7322968		-0954	Mar 16 12:19:28	024297	LPU	Dec.	0.9438	1.1004	0.1515	251	067	---	6.5N	79.9W	14	12	954	B.C.E.
07293	Sep 08	954	B.C.E.	20:22:04	1373225	3486610		-0954	Sep 09 03:07:01	024297	LNN	Asc.	-1.1412	0.8061	-0.2771	258	---	---	10.3S	55.0E	14	06	954	B.C.E.
07294	Apr 04	953	B.C.E.	21:41:42	1373403	4039526		-0953	Apr 05 04:26:20	024280	LTU	Dec.	0.2415	2.4024	1.4273	324	206	086	9.8N	38.8E	15	12	953	B.C.E.
07295	Aug 28	953	B.C.E.	00:21:49	1373579	5151481		-0953	Aug 28 07:06:31	024280	LTU	Asc.	-0.3817	2.1738	1.1417	341	208	057	13.7S	4.8W	13	06	953	B.C.E.
07296	Feb 22	952	B.C.E.	09:02:47	1373757	6192975		-0952	Feb 22 15:47:07	024262	LPU	Dec.	-0.5119	1.9347	0.9030	332	194	---	12.9N	131.3W	14	12	952	B.C.E.
07297	Aug 17	952	B.C.E.	11:46:13	1374436	9904250		-0952	Aug 17 18:30:36	024262	LTU	Asc.	0.3611	2.1832	1.2075	319	198	065	16.4S	176.0W	13	05	952	B.C.E.
07298	Jul 11	951	B.C.E.	12:58:33	1374412	4046649		-0951	Jul 11 19:42:38	024245	LNN	Dec.	-1.2768	0.5566	-0.5254	220	---	---	15.8N	169.7E	14	11	951	B.C.E.
07299	Jul 08	951	B.C.E.	20:22:28	1374259	3489368		-0951	Jul 09 03:06:34	024245	LNN	Asc.	-1.4725	0.1306	-0.8185	096	---	---	25.2S	53.9E	14	04	951	B.C.E.
07300	Aug 07	951	B.C.E.	03:52:48	1374288	6616693		-0951	Aug 07 10:36:53	024245	LNN	Asc.	1.0558	0.8956	-0.0545	232	---	---	18.5S	57.9E	14	05	951	B.C.E.
07301	Jan 01	950	B.C.E.	19:07:44	1374436	2970351		-0950	Jan 02 01:51:31	024227	LNT	Dec.	1.0087	1.0469	-0.0318	283	---	---	24.7N	75.0W	14	10	950	B.C.E.
07302	Jun 28	950	B.C.E.	11:10:39	1374613	9657314		-0950	Jun 28 17:54:25	024227	LPU	Asc.	-0.7848	1.4120	0.4241	291	138	---	24.5S	168.9W	14	04	950	B.C.E.
07303	Dec 22	950	B.C.E.	01:18:44	1374790	5546707		-0950	Dec 22 08:02:33	024227	LTU	Dec.	0.2701	2.3749	1.3501	338	212	082	23.8N	19.2W	13	10	950	B.C.E.
07304	Jun 16	949	B.C.E.	19:43:09	1374968	3216338		-0949	Jun 17 02:26:38	024210	LTU	Asc.	-0.0258	2.8312	1.7905	361	231	105	23.0S	62.3E	15	03	949	B.C.E.
07305	Dec 10	949	B.C.E.	14:07:56	1375145	0888398		-0949	Dec 10 20:51:27	024210	LTU	Dec.	-0.4183	2.0804	1.1005	311	191	046	22.0N	147.3E	13	09	949	B.C.E.
07306	Jun 05	948	B.C.E.	21:43:27	1375322	4051750		-0948	Jun 06 04:26:40	024193	LPU	Asc.	0.7524	1.5120	0.4435	329	154	---	20.7S	32.0E	14	03	948	B.C.E.
07307	Nov 30	948	B.C.E.	05:45:48	1375499	7401347		-0948	Nov 30 12:29:01	024193	LNN	Dec.	-1.0712	0.8799	-0.0952	232	---	---	19.4N	88.1W	14	09	948	B.C.E.
07308	Apr 26	947	B.C.E.	10:33:27	1375646	9398994		-0947	Apr 26 17:16:22	024175	LNN	Asc.	-1.2636	0.5524	-0.4730	209	---	---	11.3S	159.5W	13	02	947	B.C.E.
07309	May 25	947	B.C.E.	23:01:49	1375676	4595932		-0947	May 26 05:44:44	024175	LNN	Asc.	1.4858	0.1559	-0.8920	118	---	---	17.7S	12.5E	13	03	947	B.C.E.
07310	Oct 21	947	B.C.E.	05:42:01	1375824	7375089		-0947	Oct 21 12:24:56	024175	LNT	Dec.	-1.0217	1.0046	-0.0374	266	---	---	8.5N	88.2W	14	08	947	B.C.E.
07311	Apr 15	946	B.C.E.	21:15:45	1376001	3859347		-0946	Apr 16 03:58:24	024158	LTU	Asc.	-0.4499	2.0190	1.0458	316	191	032	6.6S	41.1E	13	01	946	B.C.E.
07312	Oct 10	946	B.C.E.	09:40:15	1376178	9029539		-0946	Oct 10 16:22:52	024158	LTU	Dec.	0.3513	2.2590	1.1687	364	218	064	3.4N	147.0W	14	07	946	B.C.E.
07313	Apr 04	945	B.C.E.	13:11:50	1376356	4098886		-0945	Apr 04 19:54:11	024140	LTU	Asc.	0.2955	2.2882	1.3428	312	196	079	1.9S	163.4E	13	01	945	B.C.E.
07314	Sep 28	945	B.C.E.	09:01:48	1376512	7824273		-0945	Sep 28 15:44:08	024140	LTU	Dec.	-0.3410	2.2805	1.1850	368	220	067	1.7S	136.5W	13	07	945	B.C.E.
07315	Mar 25	944	B.C.E.	05:57:56	1376670	4485663		-0944	Mar 25 12:39:59	024123	LNN	Asc.	1.0264	0.9550	-0.0058	242	---	---	2.9N	86.8W	14	13	944	B.C.E.
07316	Sep 17	944	B.C.E.	11:15:39	1376886	9692033		-0944	Sep 17 17:57:43	024123	LNT	Dec.	-1.0247	1.0039	-0.0475	271	---	---	6.8S	169.1W	13	06	944	B.C.E.
07317	Feb 13	943	B.C.E.	06:01:06	1377053	5707601		-0943	Feb 13 12:42:51	024106	LPU	Asc.	-0.9331	1.1715	0.1208	289	081	---	15.5N	85.7W	15	11	943	B.C.E.
07318	Aug 08	943	B.C.E.	11:17:21	1377211	9703807		-0943	Aug 08 17:59:08	024107	LPU	Dec.	0.9690	1.0609	0.0986	252	053	---	18.2S	168.8W	13	05	943	B.C.E.
07319	Feb 02	942	B.C.E.	08:01:36	1377389	8344404		-0942	Feb 02 14:43:04	024089	LTU	Asc.	-0.2329	2.4771	1.3851	373	229	090	19.2N	115.9W	14	11	942	B.C.E.
07320	Jul 29	942	B.C.E.	03:58:34	1377566	6656700		-0942	Jul 29 10:40:03	024089	LTU	Dec.	0.2494	2.3751	1.4253	314	199	085	21.2S	59.3W	14	05	942	B.C.E.
07321	Jan 22	941	B.C.E.	07:42:17	1377743	8210250		-0941	Jan 22 14:23:30	024072	LPU	Asc.	0.4701	2.0376	0.9540	355	205	---	22.2N	111.6W	13	11	941	B.C.E.
07322	Jul 17	941	B.C.E.	19:27:15	1377921	3105887		-0941	Jul 18 02:08:26	024072	LPU	Dec.	-0.4927	1.9441	0.9637	315	188	---	23.4S	68				

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar		
07384	Jan 23 914 B.C.E.	11:06:57	1387606.9631583	-0914	Jan 23 17:40:25	023607	LNN	Dec.	1.0392	0.9855	-0.0824	274	--- ---	22.4N 162.4W	13 11 914 B.C.E.
07385	Jul 20 914 B.C.E.	01:50:07	1387784.5764661	-0914	Jul 20 08:23:33	023607	LPU	Asc.	-0.9246	1.1610	0.1620	274	090 ---	23.6S 27.3W	15 04 914 B.C.E.
07386	Jan 12 913 B.C.E.	18:19:18	1387961.2633976	-0913	Jan 13 00:52:30	023590	LPU	Dec.	0.2873	2.3382	1.3238	334	210 079	23.3N 88.3E	13 10 913 B.C.E.
07387	Jul 08 913 B.C.E.	09:15:20	1388138.8856499	-0913	Jul 08 15:48:28	023590	LPU	Asc.	-0.1836	2.5466	1.4963	362	228 096	23.8S 139.4W	14 04 913 B.C.E.
07388	Jan 01 912 B.C.E.	07:50:35	1388315.8267980	-0912	Jan 01 14:23:29	023573	LPU	Dec.	-0.4077	2.0969	1.1228	311	191 050	23.4N 115.9W	13 10 912 B.C.E.
07389	Jun 27 912 B.C.E.	10:35:54	1388492.9415980	-0912	Jun 27 17:08:47	023573	LPU	Asc.	0.5811	1.8277	0.7563	349	192 ---	23.2S 160.3W	14 04 912 B.C.E.
07390	Dec 21 912 B.C.E.	23:37:08	1388670.4841189	-0912	Dec 22 06:10:00	023573	LNN	Dec.	-1.0702	0.8819	-0.0934	233	--- ---	22.5N 6.2E	14 10 912 B.C.E.
07391	May 18 911 B.C.E.	00:19:34	1388817.5135879	-0911	May 18 06:52:10	023556	LNN	Asc.	-1.4093	0.2805	-0.7359	151	--- ---	18.4S 7.3W	13 02 911 B.C.E.
07392	Jun 16 911 B.C.E.	12:18:15	1388847.0126780	-0911	Jun 16 18:50:52	023556	LNN	Asc.	1.3157	0.4659	-0.5777	198	--- ---	21.7S 173.6E	13 03 911 B.C.E.
07393	Nov 11 911 B.C.E.	22:39:33	1388995.4441293	-0911	Nov 12 05:12:08	023556	LNN	Dec.	-1.0338	0.9869	-0.0639	267	--- ---	16.4N 17.2E	15 08 911 B.C.E.
07394	May 07 910 B.C.E.	12:00:13	1389172.0001490	-0910	May 07 18:32:33	023539	LPU	Asc.	-0.5907	1.7564	-0.0639	303	171 ---	14.4S 178.2E	13 02 910 B.C.E.
07395	Nov 01 910 B.C.E.	01:44:59	1389349.5729010	-0910	Nov 01 08:17:16	023539	LPU	Dec.	0.3722	2.2244	1.1266	365	216 056	12.0N 29.1W	14 08 910 B.C.E.
07396	Apr 26 909 B.C.E.	04:28:28	1389526.6864364	-0909	Apr 26 11:00:29	023521	LPU	Asc.	0.1610	2.5330	1.5918	315	202 094	10.2S 67.9W	14 01 909 B.C.E.
07397	Oct 20 909 B.C.E.	00:48:29	1389703.536706	-0909	Oct 20 07:20:31	023521	LPU	Dec.	-0.3081	2.3422	1.2440	369	223 075	7.1N 14.5W	13 07 909 B.C.E.
07398	Apr 15 908 B.C.E.	21:13:28	1389881.3843494	-0908	Apr 16 03:45:11	023504	LPU	Asc.	0.9069	1.1744	0.2132	263	090 ---	5.6S 42.0E	15 01 908 B.C.E.
07399	Oct 09 908 B.C.E.	03:29:28	1390057.6454653	-0908	Oct 09 10:01:13	023504	LPU	Dec.	-0.9817	1.0825	0.0315	278	042 ---	2.1N 53.9W	13 07 908 B.C.E.
07400	Mar 06 907 B.C.E.	21:03:34	1390206.3774804	-0907	Mar 07 03:35:01	023487	LNN	Asc.	-1.0278	0.9974	-0.0526	273	--- ---	8.0N 47.8E	15 12 907 B.C.E.
07401	Aug 30 907 B.C.E.	03:28:42	1390382.6449358	-0907	Aug 30 10:00:09	023487	LNN	Dec.	-1.0475	0.9181	-0.0465	237	--- ---	11.6S 52.0W	13 06 907 B.C.E.
07402	Feb 23 906 B.C.E.	22:45:49	1390560.4484866	-0906	Feb 24 05:16:59	023470	LPU	Asc.	-0.3150	2.3237	1.2374	369	223 075	12.6N 23.4E	14 12 906 B.C.E.
07403	Apr 19 906 B.C.E.	19:57:26	1390737.3315469	-0906	Apr 19 02:28:35	023470	LPU	Dec.	0.3474	2.1990	1.2417	311	194 068	15.7S 61.3E	14 05 906 B.C.E.
07404	Feb 12 905 B.C.E.	22:59:28	1390914.4579599	-0905	Feb 13 05:30:22	023453	LPU	Asc.	0.4057	2.1503	1.0778	357	212 044	16.9N 20.0E	14 11 905 B.C.E.
07405	Aug 08 905 B.C.E.	10:41:40	1391091.9455991	-0905	Aug 08 17:12:31	023453	LPU	Dec.	-0.3825	2.1522	1.1600	325	202 059	19.4S 159.7W	14 05 905 B.C.E.
07406	Feb 01 904 B.C.E.	04:45:14	1391196.3126235	-0904	Feb 01 11:15:51	023436	LNN	Asc.	1.0957	0.8588	-0.1633	246	--- ---	20.5N 66.6W	13 11 904 B.C.E.
07407	Jul 28 904 B.C.E.	19:30:11	1391446.3126235	-0904	Jul 29 02:00:46	023436	LNN	Dec.	-1.1765	0.7217	-0.3227	238	--- ---	22.4S 68.0E	15 05 904 B.C.E.
07408	Dec 23 904 B.C.E.	07:00:39	1391593.7921223	-0904	Dec 23 13:31:16	023436	LPU	Asc.	-0.9413	1.1160	0.1455	254	072 ---	22.7N 104.4W	13 10 904 B.C.E.
07409	Jun 18 903 B.C.E.	06:19:38	1391770.7636349	-0903	Jun 18 12:49:57	023419	LPU	Dec.	0.9031	1.2350	0.1676	306	099 ---	22.3S 96.5W	14 03 903 B.C.E.
07410	Dec 12 903 B.C.E.	22:32:53	1391948.4395017	-0903	Dec 13 05:03:12	023420	LPU	Asc.	-0.2852	2.3273	1.3420	320	203 079	22.4N 32.3E	14 09 903 B.C.E.
07411	Jun 07 902 B.C.E.	09:26:46	1392124.8935842	-0902	Jun 07 15:56:51	023403	LPU	Dec.	0.1138	2.6639	1.6349	355	227 101	21.5S 143.9W	13 03 902 B.C.E.
07412	Dec 02 902 B.C.E.	10:24:03	1392302.9333680	-0902	Dec 02 16:54:04	023403	LPU	Asc.	0.4140	2.1171	1.0801	335	202 043	21.3N 157.8W	14 09 902 B.C.E.
07413	May 26 901 B.C.E.	19:39:30	1392479.3190987	-0901	May 27 02:09:17	023386	LPU	Dec.	-0.6565	1.6403	0.6662	301	163 ---	20.1S 62.6E	13 03 901 B.C.E.
07414	Nov 20 901 B.C.E.	15:07:39	1392657.1303102	-0901	Nov 20 21:37:24	023386	LNN	Asc.	1.1445	0.8039	-0.2869	257	--- ---	19.2N 130.3E	15 09 901 B.C.E.
07415	Apr 17 900 B.C.E.	11:53:12	1392804.7036061	-0900	Apr 17 11:22:40	023368	LNN	Dec.	-1.1260	0.7633	-0.1798	217	--- ---	6.0S 72.8W	14 01 900 B.C.E.
07416	May 16 900 B.C.E.	04:31:20	1392833.9800929	-0900	May 16 18:00:48	023368	LNN	Asc.	-1.3617	0.3298	-0.6112	149	--- ---	18.0S 175.5W	13 02 900 B.C.E.
07417	Oct 10 900 B.C.E.	19:41:12	1392981.3202808	-0900	Oct 11 02:10:10	023368	LNN	Asc.	-1.2092	0.6832	-0.4035	240	--- ---	2.7N 63.3E	14 07 900 B.C.E.
07418	Apr 06 899 B.C.E.	20:50:42	1393159.6853882	-0899	Apr 07 03:19:51	023351	LPU	Dec.	-0.4153	2.0836	1.1081	319	195 049	2.6S 48.3E	15 01 899 B.C.E.
07419	Sep 30 899 B.C.E.	00:27:08	1393335.5188427	-0899	Sep 30 06:56:21	023351	LPU	Asc.	-0.4630	2.0245	0.9928	332	198 ---	1.2S 7.9W	13 07 899 B.C.E.
07420	Mar 27 898 B.C.E.	07:21:59	1393513.8092880	-0898	Mar 27 13:50:51	023334	LPU	Dec.	-0.3536	2.2256	1.1931	346	213 066	0.9N 108.5W	14 13 898 B.C.E.
07421	Sep 19 898 B.C.E.	12:28:49	1393690.0200115	-0898	Sep 19 18:57:44	023334	LPU	Asc.	0.2585	2.3226	1.3947	321	204 083	4.9S 172.1E	13 06 898 B.C.E.
07422	Mar 15 897 B.C.E.	10:33:31	1393867.9399388	-0897	Mar 15 17:02:08	023317	LNN	Dec.	-1.1298	0.8735	-0.2527	261	--- ---	4.6N 155.6W	14 12 897 B.C.E.
07423	Sep 08 897 B.C.E.	04:27:50	1394044.6889973	-0897	Sep 08 10:56:27	023317	LPU	Asc.	0.9380	1.1165	0.1568	254	072 ---	8.4S 67.4W	14 06 897 B.C.E.
07424	Feb 02 896 B.C.E.	18:55:20	1394192.2884303	-0896	Feb 03 01:23:41	023300	LNN	Dec.	-1.0644	0.9363	-0.1257	268	--- ---	20.0N 81.1E	14 11 896 B.C.E.
07425	Jul 30 896 B.C.E.	09:16:33	1394369.8864885	-0896	Jul 30 15:44:52	023300	LPU	Asc.	-0.9874	1.0488	0.0437	265	048 ---	21.9S 138.3W	14 05 896 B.C.E.
07426	Jan 23 895 B.C.E.	02:40:16	1394546.6112908	-0895	Jan 23 09:08:20	023283	LPU	Dec.	0.3047	2.3033	1.2947	332	209 076	21.7N 36.0W	13 11 895 B.C.E.
07427	Jul 19 895 B.C.E.	16:08:10	1394721.1723325	-0895	Jul 19 22:36:11	023283	LPU	Asc.	-0.2557	2.4169	1.3614	361	224 087	23.0S 118.0E	14 04 895 B.C.E.
07428	Jan 12 894 B.C.E.	16:33:12	1394904.1893707	-0894	Jan 12 23:00:58	023266	LPU	Dec.	-0.3948	2.1188	1.1481	311	191 055	22.6N 114.7E	14 10 894 B.C.E.
07429	Jul 08 894 B.C.E.	17:09:44	1395078.2150893	-0894	Jul 08 23:37:30	023266	LPU	Asc.	0.5011	1.9755	0.9022	356	204 ---	23.2S 101.9E	14 04 894 B.C.E.
07430	Jan 02 893 B.C.E.	08:27:01	1395255.8520903	-0893	Jan 02 14:54:29	023249	LNN	Dec.	-1.0513	0.8908	-0.0841	234	--- ---	22.7N 125.1W	14 10 893 B.C.E.
07431	May 28 893 B.C.E.	07:12:51	1395402.8005848	-0893	May 28 13:40:20	023249	LNN	Asc.	-1.4828	0.1436	-0.8690	109	--- ---	21.2S 110.7E	13 03 893 B.C.E.
07432	Jun 26 893 B.C.E.	19:02:31	1395432.2934145	-0893	Jun 27 01:30:00	023249	LNN	Asc.	1.2334	0.6162	-0.4259	224	--- ---	22.6S 73.0E	14 03 893 B.C.E.
07433	Nov 22 893 B.C.E.	07:10:55	1395580.7992425	-0893	Nov 22 13:38:23	023249	LNN	Dec.	0.1367	0.9832	-0.0711	267	--- ---	19.7N 110.2W	14 09 893 B.C.E.
07434	May 17 892 B.C.E.	19:19:53	1395757.3054694	-0892	May 18 01:47:05	023232	LPU	Asc.	-0.6645	1.6193	0.6580	295	158 ---	17.8S 67.8E	14 02 892 B.C.E.
07435	Nov 11 892 B.C.E.	09:53:30	1395934.9121580	-0892	Nov 11 16:20:41	023232	LPU	Dec.	0.3770	2.2170	1.1167	366	216 054	15.8N 151.2W	14 08 892 B.C.E.
07436	May 07 891 B.C.E.	12:00:21	1396112.0002401	-0891	May 07 18:27:16	023215	LPU	Asc.	0.0881	2.6660	1.7260	316	204 098	13.9S 178.3E	13 02 891 B.C.E.
07437	Oct 31 891 B.C.E.	08:52:36	1396288.8698579	-0891	Oct 31 15:19:32	023215	LPU	Dec.	-0.2999	2.3576	1.2589	369	223 077	11.3N 135.8W	13 08 891 B.C.E.
07438	Apr 27 890 B.C.E.	04:42:15	1396466.6960077	-0890	Apr 27 11:08:53	023198	LPU	Asc.	0.8407	1.2964	0.3342	274	115 ---	9.7S 71.2W	14 01 890 B.C.E.
07439	Oct 20 890 B.C.E.	11:48:16	1396642.9918486	-0890	Oct 20 18:14:54	023198	LPU	Dec.	-0.9857	1.1058	0.0557	279	055 ---	6.5N 179.2W	12 07 890 B.C.E.
07440	Mar 17 889 B.C.E.	04:19:55	1396791.6804936	-0889	Mar 17 10:46:16	023181	LNN	Asc.	-1.0685	0.8913	-0.1584	262	--- ---	3.8N 62.2W	15 12 889 B.C.E.
07441	Sep 09 889 B.C.E.	11:47:14	1396967.9911321	-0889	Sep 09 18:13:36	023182	LNN	Dec.	0.1768	0.8651	-0.1010	231	--- ---	7.7S 177.4W	13 06 889 B.C.E.
07442	Mar 06 888 B.C.E.	05:52:58	1397145.7451180	-0888	Mar 06 12:19:03	023165	LPU	Asc.	-0.3678	2.2252	1.1420	366	219 060	8.7N 84.2W	14 12 888 B.C.E.
07443	Aug 30 888 B.C.E.	06:07:48	1397322.6720846	-0888	Aug 30 10:33:52	023165	LPU	Dec.	0.3869	2.1288	1.1672	310	191 058	12.1S 61.9W	14 06 888 B.C.E.
07444	Feb 23 887 B.C.E.	04:26:15	1397499.7628338	-0887	Feb 23 12:52:05	023148	LPU	Asc.	0.3627	2.2261	1.1595	358	216 062	13.3N 91.6W	13 12 887 B.C.E.
07445	Aug 19 887 B.C.E.	18:28:40	1397677.2699062	-0887	Aug 20 00:54:26	023148	LPU	Dec.	-0.3367						

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar			
										Pen.	Par.	Lat.	Lon.	Day	Month	Year	
07491	Jun 28 866 B.C.E.	23:11:55	1405295.4666052	-0866	Jun 29 05:31:50	022793	LTU	Dec.	0.2717	2.3718	1.3473	348	219	084	23.5S	10.8E	13 04 866 B.C.E.
07492	Dec 24 866 B.C.E.	03:30:46	1405473.6463664	-0866	Dec 24 09:50:37	022793	LTU	Asc.	0.4107	2.1251	1.0841	338	204	044	24.1N	52.0W	15 10 866 B.C.E.
07493	Jun 17 865 B.C.E.	10:13:52	1405649.9262939	-0865	Jun 16 16:33:30	022777	LNN	Dec.	-0.5010	1.9232	0.9539	312	185	---	23.6N	155.4W	13 03 865 B.C.E.
07494	Dec 12 865 B.C.E.	07:33:43	1405827.8150860	-0865	Dec 12 13:53:20	022777	LNN	Asc.	1.1414	0.8110	-0.2827	259	---	---	23.7N	114.3W	14 09 865 B.C.E.
07495	May 08 864 B.C.E.	19:59:32	1405975.3300055	-0864	May 09 02:18:52	022760	LNN	Dec.	1.2682	0.5018	-0.4403	181	---	---	13.4S	59.0E	14 02 864 B.C.E.
07496	Jun 07 864 B.C.E.	02:29:19	1406004.6036865	-0864	Jun 07 08:48:38	022760	LNN	Asc.	-1.2140	0.6003	-0.3397	195	---	---	22.9S	39.9W	14 03 864 B.C.E.
07497	Nov 01 864 B.C.E.	11:53:27	1406151.9954467	-0864	Nov 01 18:12:46	022760	LNN	Asc.	-1.2252	0.6536	-0.4327	234	---	---	11.1N	179.3E	13 08 864 B.C.E.
07498	Apr 28 863 B.C.E.	11:39:15	1406329.9855856	-0863	Apr 28 17:58:16	022743	LPU	Dec.	0.5585	1.8221	0.8441	311	180	---	10.6S	175.5W	14 02 863 B.C.E.
07499	Oct 21 863 B.C.E.	17:14:59	1406506.2187416	-0863	Oct 21 23:34:04	022743	LPU	Asc.	-0.4849	1.9835	0.9535	328	194	---	7.6N	99.0E	13 08 863 B.C.E.
07500	Apr 17 862 B.C.E.	21:26:40	1406684.3935200	-0862	Apr 18 03:45:24	022726	LTU	Dec.	-0.2129	2.4848	1.4504	354	224	093	7.4S	38.2E	15 01 862 B.C.E.
07501	Oct 11 862 B.C.E.	05:39:44	1406860.7359298	-0862	Oct 11 11:58:33	022727	LTU	Asc.	0.2234	2.4375	1.4584	321	205	087	3.9N	87.0W	13 07 862 B.C.E.
07502	Apr 06 861 B.C.E.	00:08:28	1407038.5058818	-0861	Apr 06 06:26:58	022710	LNT	Dec.	-0.9935	1.0716	-0.0009	291	---	---	3.8S	1.5W	14 01 861 B.C.E.
07503	Sep 29 861 B.C.E.	21:30:11	1407215.3959592	-0861	Sep 30 03:48:41	022710	LPU	Asc.	0.8928	1.2029	0.2364	261	095	---	0.2N	35.7E	14 07 861 B.C.E.
07504	Feb 24 860 B.C.E.	10:09:36	1407362.9233276	-0860	Feb 24 16:27:49	022693	LNN	Dec.	1.1347	0.8008	-0.2483	249	---	---	13.4N	147.4W	13 12 860 B.C.E.
07505	Aug 21 860 B.C.E.	00:28:40	1407540.5199067	-0860	Aug 21 06:46:52	022693	LNN	Asc.	-1.0941	0.8597	-0.1583	247	---	---	16.4S	6.0W	15 05 860 B.C.E.
07506	Feb 13 859 B.C.E.	19:02:35	1407717.2934655	-0859	Feb 14 01:20:34	022677	LTU	Dec.	0.3580	2.1993	1.2029	326	204	065	16.3N	79.2E	13 11 859 B.C.E.
07507	May 10 859 B.C.E.	06:09:29	1407894.7565856	-0859	May 10 12:27:25	022677	LTU	Asc.	-0.3846	2.1861	1.1194	358	215	055	18.9S	91.5W	14 05 859 B.C.E.
07508	Feb 03 858 B.C.E.	09:40:58	1408071.9034518	-0858	Feb 03 15:58:39	022660	LTU	Dec.	-0.3540	2.1900	1.2268	311	194	066	18.6N	140.8W	13 11 858 B.C.E.
07509	Jul 30 858 B.C.E.	06:35:37	1408248.7747390	-0858	Jul 30 12:53:18	022660	LPU	Asc.	0.3548	2.2462	1.1684	366	220	064	20.8S	98.5W	13 05 858 B.C.E.
07510	Jan 24 857 B.C.E.	01:46:40	1408426.5740710	-0857	Jan 24 08:04:03	022643	LNN	Dec.	-1.0410	0.9344	-0.0387	239	---	---	20.3N	23.0W	14 11 857 B.C.E.
07511	Jul 18 857 B.C.E.	08:52:46	1408602.8699731	-0857	Jul 18 15:10:09	022643	LNN	Asc.	1.0822	0.8928	-0.1476	260	---	---	21.8S	133.4W	14 04 857 B.C.E.
07512	Dec 14 857 B.C.E.	00:08:11	1408751.5056884	-0857	Dec 14 06:25:35	022643	LNN	Dec.	1.0448	0.9709	-0.0883	268	---	---	23.9N	2.5W	15 09 857 B.C.E.
07513	Jun 08 856 B.C.E.	10:02:49	1408927.9186271	-0856	Jun 08 16:19:56	022626	LPU	Asc.	-0.8102	1.3494	0.3928	276	123	---	27.2S	152.9W	13 03 856 B.C.E.
07514	Dec 03 856 B.C.E.	02:11:20	1409105.5912045	-0856	Dec 03 08:28:25	022626	LTU	Dec.	0.3846	2.2044	1.1013	366	216	051	21.5N	34.4W	14 09 856 B.C.E.
07515	May 29 855 B.C.E.	03:00:52	1409282.6256009	-0855	May 29 09:17:41	022609	LPU	Asc.	-0.0601	2.7044	1.0778	317	205	099	20.0S	47.5W	14 03 855 B.C.E.
07516	Nov 22 855 B.C.E.	01:11:11	1409459.5494287	-0855	Nov 22 07:28:01	022609	LPU	Dec.	-0.2908	2.3735	1.2764	368	223	079	18.3N	20.1W	13 09 855 B.C.E.
07517	May 18 854 B.C.E.	19:25:24	1409637.3093030	-0854	May 19 01:41:56	022593	LPU	Asc.	0.6983	1.5595	0.5935	293	153	---	16.7S	66.7E	15 02 854 B.C.E.
07518	Nov 11 854 B.C.E.	04:44:53	1409813.6978313	-0854	Nov 11 11:01:26	022593	LPU	Dec.	-0.9561	1.1273	0.0806	279	066	---	14.4N	73.8W	13 08 854 B.C.E.
07519	Apr 07 853 B.C.E.	18:21:40	1409962.2650472	-0853	Apr 08 00:37:56	022576	LNN	Asc.	-1.2226	0.6400	-0.4100	229	---	---	4.7S	85.1E	15 01 853 B.C.E.
07520	May 07 853 B.C.E.	06:48:33	1409991.7837117	-0853	May 07 13:04:49	022576	LNN	Asc.	1.5203	0.0783	-0.9411	082	---	---	12.8S	103.4W	15 02 853 B.C.E.
07521	Oct 01 853 B.C.E.	04:50:15	1410138.7015620	-0853	Oct 01 11:06:31	022576	LNN	Dec.	1.1154	0.7958	-0.1733	223	---	---	1.1N	74.4W	13 07 853 B.C.E.
07522	Mar 27 852 B.C.E.	19:38:56	1410316.3187084	-0852	Mar 28 01:54:55	022559	LPU	Asc.	-0.4958	1.9873	0.9102	357	205	---	0.2N	67.2E	14 01 852 B.C.E.
07523	Sep 20 852 B.C.E.	20:53:23	1410493.7304097	-0852	Sep 21 03:09:22	022559	LPU	Dec.	0.4437	2.0287	1.0586	309	187	036	3.9S	45.8E	14 07 852 B.C.E.
07524	Mar 16 851 B.C.E.	20:55:12	1410670.3716610	-0851	Mar 17 03:10:55	022542	LTU	Asc.	0.2546	2.4183	1.3638	359	223	087	5.2N	49.4E	14 13 851 B.C.E.
07525	Sep 10 851 B.C.E.	10:23:44	1410847.9331453	-0851	Sep 10 16:39:24	022542	LTU	Dec.	-0.2657	2.3762	1.3650	336	213	083	8.7S	156.0W	14 06 851 B.C.E.
07526	Mar 06 850 B.C.E.	04:26:31	1411024.6850784	-0850	Mar 06 10:41:57	022526	LPU	Asc.	0.9764	1.0678	0.0651	265	058	---	10.0N	62.4W	13 12 850 B.C.E.
07527	Aug 30 850 B.C.E.	17:27:11	1411202.2272072	-0850	Aug 30 23:42:37	022526	LNN	Dec.	-1.0323	0.9958	-0.0674	276	---	---	13.3S	98.9E	15 06 850 B.C.E.
07528	Jul 29 849 B.C.E.	09:13:38	1411349.8844670	-0849	Jul 29 15:28:47	022509	LPU	Asc.	-0.9775	1.0457	0.0828	247	046	---	20.0N	134.4W	14 11 849 B.C.E.
07529	Jul 20 849 B.C.E.	02:09:42	1411526.5900700	-0849	Jul 20 08:24:51	022509	LNN	Dec.	1.1337	0.8129	-0.2566	259	---	---	21.6S	32.4W	13 04 849 B.C.E.
07530	Jan 14 848 B.C.E.	00:48:21	1411704.5335815	-0848	Jan 14 07:03:12	022492	LTU	Asc.	-0.3102	2.2819	1.2958	321	202	075	22.4N	8.9W	14 10 848 B.C.E.
07531	Jul 09 848 B.C.E.	06:13:28	1411880.7593530	-0848	Jul 09 12:28:23	022493	LPU	Dec.	0.3446	2.2373	1.2143	343	213	069	23.3S	93.9W	13 04 848 B.C.E.
07532	Jan 03 847 B.C.E.	11:55:35	1412058.9969288	-0847	Jan 03 18:10:09	022476	LTU	Asc.	0.4032	2.1396	1.0974	339	205	048	24.1N	176.9W	14 10 847 B.C.E.
07533	Jun 28 847 B.C.E.	17:37:48	1412235.2345859	-0847	Jun 28 23:52:26	022476	LPU	Dec.	-0.4277	2.0570	1.0891	315	192	044	24.2S	94.3E	14 04 847 B.C.E.
07534	Dec 23 847 B.C.E.	15:40:10	1412413.1528891	-0847	Dec 23 21:54:45	022476	LNN	Asc.	1.1353	0.8224	-0.2716	261	---	---	24.7N	125.5E	15 10 847 B.C.E.
07535	May 20 846 B.C.E.	03:28:38	1412560.6448822	-0846	May 20 09:42:57	022460	LNN	Dec.	1.3421	0.3665	-0.5761	157	---	---	16.4S	53.8W	14 02 846 B.C.E.
07536	Jun 18 846 B.C.E.	10:00:57	1412589.9132887	-0846	Jun 18 16:15:17	022460	LNN	Dec.	-1.1421	0.7324	-0.2081	213	---	---	24.3S	152.3W	13 03 846 B.C.E.
07537	Nov 12 846 B.C.E.	20:07:49	1412737.3387637	-0846	Nov 13 02:22:10	022460	LNN	Asc.	-1.2270	0.6496	-0.4355	233	---	---	14.8N	55.8E	13 08 846 B.C.E.
07538	Nov 08 845 B.C.E.	18:54:09	1412915.2876054	-0845	Nov 09 01:08:11	022443	LPU	Dec.	0.6364	1.6803	0.7000	305	168	---	14.1S	75.0E	15 02 845 B.C.E.
07539	Nov 01 845 B.C.E.	01:49:22	1413091.5759469	-0845	Nov 01 08:03:26	022443	LPU	Asc.	-0.4883	1.9764	0.9480	327	193	---	11.7N	29.9W	13 08 845 B.C.E.
07540	Apr 28 844 B.C.E.	04:16:59	1413269.6784570	-0844	Apr 28 10:30:42	022426	LTU	Dec.	-0.1343	2.6299	1.5939	358	228	100	11.2S	65.3E	15 02 844 B.C.E.
07541	Oct 21 844 B.C.E.	14:26:03	1413446.1014267	-0844	Oct 21 20:39:50	022426	LPU	Asc.	0.2144	2.4594	1.4749	321	205	088	8.3N	140.8W	13 08 844 B.C.E.
07542	Apr 17 843 B.C.E.	06:43:41	1413623.7803336	-0843	Apr 17 12:57:11	022410	LPU	Dec.	-0.9154	1.2142	0.1431	305	092	---	7.8S	101.3W	14 01 843 B.C.E.
07543	Oct 11 843 B.C.E.	06:12:20	1413800.9585606	-0843	Oct 11 12:25:49	022410	LPU	Asc.	0.8797	1.2286	0.2589	260	100	---	4.7N	95.6W	14 07 843 B.C.E.
07544	Mar 07 842 B.C.E.	17:36:12	1413948.2334723														

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Year	Month	Day	Time (UT)	Year	Month	Day							Time (UT)	Pen.	Par.	Lat.	Lon.	Year	Month	Day	Year	Month	Day		
07598	Jun	09	818	B.C.E.	09:58:55	1422807	9159108	-0818	Jun	09	16:05:29	021996	LPU	Asc.	0.5504	1.8342	0.8619	309	179	---	21.5S	151.8W	14	03	818	B.C.E.
07599	Dec	02	818	B.C.E.	21:53:33	1422984	8121915	-0818	Dec	03	04:00:10	021996	LPU	Dec.	-0.9504	1.1347	0.0939	278	070	---	20.2N	30.1E	13	09	818	B.C.E.
07600	Apr	29	817	B.C.E.	07:50:54	1423132	8270109	-0817	Apr	29	13:57:14	021980	LNN	Asc.	-1.3809	0.3504	-0.7012	175	---	---	12.9S	119.2W	14	02	817	B.C.E.
07601	May	28	817	B.C.E.	20:28:16	1423162	3529620	-0817	May	29	02:34:35	021980	LNN	Asc.	1.3723	0.3530	-0.6727	171	---	---	18.8S	50.9E	15	03	817	B.C.E.
07602	Oct	22	817	B.C.E.	22:21:56	1423309	4318967	-0817	Oct	23	04:28:16	021980	LNN	Dec.	1.1322	0.7663	-0.2051	219	---	---	9.9N	21.6E	13	08	817	B.C.E.
07603	Apr	18	816	B.C.E.	08:54:17	1423486	8710278	-0816	Apr	18	15:00:20	021963	LPU	Asc.	-0.6475	1.7060	0.6345	342	179	---	8.2S	133.9W	14	01	816	B.C.E.
07604	Oct	12	816	B.C.E.	14:06:11	1423664	0876263	-0816	Oct	12	20:12:13	021963	LPU	Dec.	0.4762	1.9733	0.9950	308	185	---	5.1N	146.2E	13	07	816	B.C.E.
07605	Apr	07	815	B.C.E.	10:57:53	1423840	9568609	-0815	Apr	07	17:03:42	021947	LTU	Asc.	0.1219	2.6560	1.6130	360	228	101	3.4S	163.5W	13	01	815	B.C.E.
07606	Oct	02	815	B.C.E.	02:46:49	1424018	6158432	-0815	Oct	02	08:52:34	021947	LTU	Dec.	-0.2217	2.4631	1.4396	341	216	089	0.1N	43.1W	14	07	815	B.C.E.
07607	Mar	27	814	B.C.E.	19:38:22	1424195	3183102	-0814	Mar	28	01:43:53	021930	LPU	Asc.	0.8636	1.2686	0.2781	280	113	---	1.5N	67.7E	13	01	814	B.C.E.
07608	Sep	21	814	B.C.E.	08:43:02	1424372	8632157	-0814	Sep	21	14:48:32	021930	LPU	Dec.	-0.9700	1.1160	0.0409	291	049	---	5.0S	131.3W	14	07	814	B.C.E.
07609	Feb	16	813	B.C.E.	02:06:15	1424520	5876766	-0813	Feb	16	08:11:30	021914	LNN	Asc.	-1.0313	0.9441	-0.0129	237	---	---	14.3N	27.1W	14	12	813	B.C.E.
07610	Mar	16	813	B.C.E.	10:23:47	1424549	9331871	-0813	Mar	16	16:29:02	021914	LNN	Asc.	1.5329	0.0219	-0.9316	040	---	---	6.4N	152.4W	13	13	813	B.C.E.
07611	Aug	10	813	B.C.E.	16:01:57	1424697	1680243	-0813	Aug	10	22:07:11	021914	LNN	Dec.	1.2561	0.5898	-0.4824	225	---	---	17.1S	120.0E	13	05	813	B.C.E.
07612	Feb	04	812	B.C.E.	17:42:24	1424875	3277738	-0812	Feb	04	23:47:19	021897	LTU	Asc.	-0.3539	2.2013	1.2160	321	200	066	18.0N	99.0E	15	11	812	B.C.E.
07613	Jul	30	812	B.C.E.	20:41:58	1425051	3624758	-0812	Jul	31	02:46:57	021897	LPU	Dec.	0.4717	2.0033	0.9821	333	199	---	20.3S	50.0E	15	05	812	B.C.E.
07614	Jan	25	811	B.C.E.	04:22:33	1425229	6823276	-0811	Jan	25	10:27:12	021881	LTU	Asc.	0.3728	2.1957	1.1525	343	209	059	21.3N	61.5W	15	11	811	B.C.E.
07615	Jul	20	811	B.C.E.	08:42:09	1425405	8626025	-0811	Jul	20	14:46:51	021881	LTU	Dec.	-0.2932	2.3032	1.3365	320	202	079	22.9S	130.4W	14	10	811	B.C.E.
07616	Jan	14	810	B.C.E.	07:37:06	1425583	8174258	-0810	Jan	14	13:41:29	021864	LNN	Asc.	1.1119	0.8646	-0.2279	267	---	---	23.8N	111.0W	14	01	810	B.C.E.
07617	Jun	10	810	B.C.E.	18:23:48	1425731	2665324	-0810	Jun	10	00:28:12	021864	LNN	Dec.	1.4904	0.0960	-0.8497	083	---	---	20.8S	82.4E	15	03	810	B.C.E.
07618	Jul	10	810	B.C.E.	01:13:32	1425878	5510627	-0810	Jul	10	07:17:56	021864	LNN	Dec.	-1.0665	0.9827	0.0392	040	043	---	24.6S	18.9W	14	04	810	B.C.E.
07619	Dec	04	810	B.C.E.	12:42:32	1425908	0295368	-0810	Dec	04	18:46:55	021864	LNN	Asc.	-1.2273	0.6466	-0.4337	231	---	---	20.3N	168.2E	13	09	810	B.C.E.
07620	May	30	809	B.C.E.	09:15:10	1426085	8855343	-0809	May	30	15:19:17	021848	LPU	Dec.	0.7959	1.3907	0.4043	290	134	---	19.6S	140.8W	14	03	809	B.C.E.
07621	Nov	22	809	B.C.E.	19:09:20	1426262	2981531	-0809	Nov	23	01:13:30	021848	LPU	Asc.	-0.4876	1.9753	0.9515	325	192	---	18.5N	70.5E	15	09	809	B.C.E.
07622	May	19	808	B.C.E.	17:43:36	1426440	2386167	-0808	May	19	23:47:27	021832	LTU	Dec.	0.0321	2.8196	1.7791	362	231	105	17.8S	92.0E	15	02	808	B.C.E.
07623	Nov	12	808	B.C.E.	08:11:12	1426616	8411132	-0808	Nov	12	14:15:05	021832	LTU	Asc.	0.2060	2.4693	1.4905	320	205	089	16.1N	125.6W	13	08	808	B.C.E.
07624	May	08	807	B.C.E.	19:40:31	1426794	3197995	-0807	May	09	01:44:06	021815	LPU	Dec.	-0.7478	1.5208	0.4517	330	156	---	15.2S	62.9E	14	02	807	B.C.E.
07625	Nov	01	807	B.C.E.	23:51:30	1426971	4940958	-0807	Nov	02	05:55:04	021815	LPU	Asc.	0.8668	1.2551	0.2800	267	106	---	13.1N	1.1W	14	08	807	B.C.E.
07626	Mar	29	806	B.C.E.	08:07:00	1427118	8381918	-0806	Mar	29	14:10:20	021800	LNN	Dec.	1.2885	0.5859	-0.5210	201	---	---	1.2N	119.2W	13	01	806	B.C.E.
07627	Apr	27	806	B.C.E.	20:59:51	1427148	3748952	-0806	Apr	28	03:03:11	021800	LNN	Dec.	-1.4784	0.1701	-0.8789	124	---	---	12.1S	43.5E	14	02	806	B.C.E.
07628	Sep	23	806	B.C.E.	00:08:48	1427296	5061062	-0806	Sep	23	06:12:07	021800	LNN	Asc.	-1.2044	0.6672	-0.3705	225	---	---	4.5S	2.5W	15	07	806	B.C.E.
07629	Mar	17	805	B.C.E.	18:42:18	1427473	2793805	-0805	Mar	18	00:45:23	021783	LPU	Dec.	0.4883	1.9512	0.9728	313	187	---	4.7N	82.6E	14	13	805	B.C.E.
07630	Mar	17	805	B.C.E.	04:08:07	1427650	6723089	-0805	Sep	11	10:11:10	021783	LPU	Dec.	-0.5261	1.9347	0.8515	352	198	---	8.3S	62.0W	14	06	805	B.C.E.
07631	Mar	07	804	B.C.E.	10:23:34	1427827	9330302	-0804	Mar	07	16:26:21	021767	LTU	Dec.	-0.2423	2.3894	1.4371	314	200	085	8.1N	152.2W	13	12	804	B.C.E.
07632	Aug	31	804	B.C.E.	03:51:22	1428004	6606665	-0804	Aug	31	09:54:10	021767	LTU	Asc.	0.1877	2.5566	1.4715	373	231	096	11.8S	57.6W	13	06	804	B.C.E.
07633	Feb	25	803	B.C.E.	02:44:34	1428182	6142819	-0803	Feb	25	08:47:04	021750	LPU	Dec.	-0.9585	1.0842	0.1140	255	063	---	11.3N	37.1W	14	12	803	B.C.E.
07634	Aug	20	803	B.C.E.	06:45:54	1428360	7818760	-0803	Aug	20	12:48:25	021750	LPU	Asc.	0.9018	1.2234	0.1835	291	099	---	14.8S	101.1W	13	05	803	B.C.E.
07635	Jan	16	802	B.C.E.	00:55:21	1428507	5384420	-0802	Jan	16	06:57:36	021734	LNN	Dec.	1.0829	0.9023	-0.1595	262	---	---	23.5N	10.2W	15	10	802	B.C.E.
07636	Jul	11	802	B.C.E.	08:33:15	1428683	8564191	-0802	Jul	11	14:35:29	021734	LNN	Dec.	-1.0115	0.9790	0.0247	243	034	---	24.5S	128.5W	13	04	802	B.C.E.
07637	Jan	05	801	B.C.E.	02:17:17	1428861	5953303	-0801	Jan	05	08:19:14	021718	LTU	Dec.	0.4111	2.1548	1.0537	365	214	038	24.0N	32.1W	14	10	801	B.C.E.
07638	Jun	30	801	B.C.E.	01:35:29	1429038	5663041	-0801	Jun	30	07:37:26	021718	LTU	Asc.	-0.2784	2.3191	1.3749	313	197	081	24.1S	24.9W	14	04	801	B.C.E.
07639	Dec	24	801	B.C.E.	01:42:21	1429215	5710771	-0801	Dec	24	07:44:21	021718	LTU	Dec.	-0.2758	2.3967	1.3080	366	223	082	23.5N	29.8W	13	10	801	B.C.E.
07640	Jun	19	800	B.C.E.	17:15:06	1429393	2188209	-0800	Jun	19	23:16:46	021701	LPU	Asc.	0.4770	1.9709	0.9944	316	190	---	22.8S	99.6E	15	03	800	B.C.E.
07641	Dec	13	800	B.C.E.	06:27:39	1429569	7692013	-0800	Dec	13	12:29:21	021701	LPU	Dec.	-0.9461	1.1406	0.1038	277	074	---	22.0N	97.4W	13	09	800	B.C.E.
07642	May	10	799																							

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar			
	Month	Day	Time	Day	Time	Month	Day							Time	Pen.		Par.	Lat.	Lon.	Day	Month	Year
07705	Dec	14	773 B.C.E.	12:32:51	1439433.0228177	-0773	Dec 14	18:27:16	021263	LPU	Asc.	-0.4870	1.9729	0.9562	322	192	---	22.6N	171.5E	13	09	773 B.C.E.
07706	Jun	10	772 B.C.E.	06:59:53	1439610.7915897	-0772	Jun 10	12:53:58	021247	LTU	Dec.	0.2030	2.5092	1.4622	361	227	094	22.1S	106.9W	14	03	772 B.C.E.
07707	Dec	04	772 B.C.E.	02:05:13	1439787.5869562	-0772	Dec 04	07:59:21	021247	LTU	Asc.	0.2044	2.4712	1.4947	319	204	089	21.7N	32.8W	13	09	772 B.C.E.
07708	May	30	771 B.C.E.	08:25:23	1439964.8509658	-0771	May 30	14:19:14	021230	LPU	Dec.	-0.5697	1.8472	0.7788	349	194	---	20.8S	128.7W	14	03	771 B.C.E.
07709	Nov	23	771 B.C.E.	17:43:40	1440142.3286549	-0771	Nov 23	23:37:30	021230	LPU	Asc.	0.8666	1.2573	0.2784	268	107	---	20.0N	91.5E	14	09	771 B.C.E.
07710	Apr	19	770 B.C.E.	22:16:43	1440289.4282718	-0770	Apr 20	04:10:17	021214	LNN	Dec.	1.4165	0.2682	-0.7500	148	---	---	7.0S	26.2E	13	01	770 B.C.E.
07711	May	19	770 B.C.E.	10:17:38	1440318.9289099	-0770	May 19	16:11:12	021214	LNN	Dec.	-1.3089	0.4773	-0.5641	200	---	---	18.8S	157.0W	13	02	770 B.C.E.
07712	Oct	14	770 B.C.E.	16:30:16	1440467.1876803	-0770	Oct 14	22:23:49	021214	LNN	Asc.	-1.2455	0.5978	-0.4517	216	---	---	4.3N	110.7E	15	07	770 B.C.E.
07713	Apr	08	769 B.C.E.	09:55:34	1440643.9135919	-0769	Apr 08	15:48:53	021198	LPU	Dec.	0.6062	1.7295	0.7616	301	169	---	3.6S	147.8W	13	01	769 B.C.E.
07714	Oct	02	769 B.C.E.	19:29:21	1440821.3120527	-0769	Oct 03	01:22:38	021198	LPU	Asc.	-0.5832	1.8349	0.7420	349	189	---	0.4N	66.3E	14	07	769 B.C.E.
07715	Mar	29	768 B.C.E.	02:13:08	1440998.5924491	-0768	Mar 29	08:06:09	021182	LTU	Dec.	-0.1345	2.5843	1.6379	316	203	095	0.2S	31.5W	14	01	768 B.C.E.
07716	Sep	21	768 B.C.E.	18:51:15	1441175.2855898	-0768	Sep 22	00:44:18	021182	LTU	Asc.	0.1144	2.6932	1.6039	374	233	102	3.6S	76.3E	14	07	768 B.C.E.
07717	Mar	18	767 B.C.E.	18:38:31	1441353.2767525	-0767	Mar 19	00:31:17	021166	LPU	Dec.	-0.8696	1.2467	0.2778	270	106	---	3.3N	82.8E	15	13	767 B.C.E.
07718	Sep	10	767 B.C.E.	22:12:12	1441529.4251352	-0767	Sep 11	04:04:58	021166	LPU	Asc.	0.8175	1.3781	0.3381	302	130	---	7.3S	26.4E	13	06	767 B.C.E.
07719	Feb	06	766 B.C.E.	16:44:18	1441678.1974358	-0766	Feb 06	22:36:49	021150	LNN	Dec.	1.1388	0.7995	-0.2620	251	---	---	18.9N	114.0E	15	01	766 B.C.E.
07720	Aug	02	766 B.C.E.	00:02:18	1441854.5015930	-0766	Aug 02	05:54:48	021150	LNN	Asc.	-1.1243	0.7727	-0.1829	220	---	---	21.5S	0.4E	14	05	766 B.C.E.
07721	Aug	31	766 B.C.E.	08:59:47	1441883.8748546	-0766	Aug 31	14:52:18	021150	LNN	Asc.	1.4739	0.1445	-0.8374	103	---	---	10.6S	135.3W	13	06	766 B.C.E.
07722	Jan	26	765 B.C.E.	17:49:03	1442032.2423990	-0765	Jan 26	23:41:16	021133	LPU	Dec.	0.4540	2.0737	0.9774	362	209	---	21.0N	97.1E	14	11	765 B.C.E.
07723	Jul	21	765 B.C.E.	16:55:37	1442209.2052897	-0765	Jul 21	22:47:49	021133	LPU	Asc.	-0.4084	2.0836	1.1333	308	189	053	22.7S	106.1E	14	04	765 B.C.E.
07724	Jan	14	764 B.C.E.	17:45:09	1442386.2396881	-0764	Jan 14	23:37:08	021117	LTU	Dec.	-0.2478	2.4435	1.3639	365	224	087	22.4N	97.1E	14	01	764 B.C.E.
07725	Jul	11	764 B.C.E.	07:54:41	1442563.8296396	-0764	Jul 11	13:46:37	021118	LTU	Asc.	0.3386	2.2299	1.2435	327	205	071	23.1N	91.0W	14	04	764 B.C.E.
07726	Jun	03	763 B.C.E.	23:28:57	1442740.4784366	-0763	Jun 04	05:20:40	021102	LPU	Dec.	-0.9295	1.1662	0.1390	277	084	---	22.7N	9.7E	13	10	763 B.C.E.
07727	Jun	30	763 B.C.E.	16:50:16	1442918.2015777	-0763	Jun 30	22:41:58	021102	LNN	Asc.	1.1479	0.7714	-0.2676	245	---	---	22.7S	106.3E	15	04	763 B.C.E.
07728	Nov	25	763 B.C.E.	01:10:37	1443065.5490423	-0763	Nov 25	07:02:19	021102	LNN	Dec.	1.1349	0.7616	-0.2104	218	---	---	20.6N	20.1W	13	09	763 B.C.E.
07729	Dec	24	763 B.C.E.	12:00:35	1443095.8004009	-0763	Dec 24	17:52:17	021102	LNN	Dec.	-1.5469	0.0998	-0.9707	027	---	---	22.2N	179.4W	13	10	763 B.C.E.
07730	May	21	762 B.C.E.	04:14:31	1443242.6767507	-0762	May 21	10:05:57	021086	LPU	Asc.	-0.9010	1.2378	0.1723	306	100	---	19.0S	65.9W	14	02	762 B.C.E.
07731	Nov	14	762 B.C.E.	16:33:28	1443420.1899100	-0762	Nov 14	22:24:53	021086	LPU	Dec.	0.4911	1.9510	0.9629	310	185	---	17.1N	108.8E	15	08	762 B.C.E.
07732	Apr	09	761 B.C.E.	07:29:49	1443596.8123679	-0761	Apr 09	13:21:01	021070	LTU	Asc.	-0.1107	2.6691	1.6410	355	227	101	15.1S	114.2W	13	02	761 B.C.E.
07733	Nov	03	761 B.C.E.	04:05:44	1443774.6706452	-0761	Nov 03	09:56:51	021070	LTU	Dec.	-0.1982	2.5141	1.4750	346	218	092	12.9N	64.3W	14	08	761 B.C.E.
07734	Apr	28	760 B.C.E.	17:48:17	1443951.2418604	-0760	Apr 28	23:39:12	021054	LPU	Asc.	0.6559	1.6419	0.6671	300	163	---	10.9S	92.1E	14	02	760 B.C.E.
07735	Oct	23	760 B.C.E.	08:30:59	1444128.8548505	-0760	Oct 23	14:21:52	021054	LPU	Dec.	-0.9245	1.2070	0.1171	302	082	---	8.2N	130.2W	14	08	760 B.C.E.
07736	Mar	20	759 B.C.E.	02:23:59	1444376.5999882	-0759	Mar 20	08:14:37	021038	LNN	Asc.	-1.1620	0.7005	-0.2491	210	---	---	2.4N	33.6W	14	13	759 B.C.E.
07737	Apr	18	759 B.C.E.	09:38:09	1444305.9014910	-0759	Apr 18	15:28:47	021038	LNN	Asc.	1.3556	0.3423	-0.6015	152	---	---	6.4S	144.3W	13	01	759 B.C.E.
07738	Sep	12	759 B.C.E.	14:06:40	1444538.9896699	-0759	Sep 12	19:57:18	021038	LNN	Dec.	1.3798	0.3647	-0.7115	180	---	---	6.2S	147.7E	13	06	759 B.C.E.
07739	Mar	09	758 B.C.E.	17:55:52	1444631.2471255	-0758	Mar 09	23:46:11	021021	LPU	Asc.	-0.4703	1.9872	1.0029	316	191	008	7.1N	94.6E	15	12	758 B.C.E.
07740	Sep	01	758 B.C.E.	19:35:42	1444807.3164530	-0758	Sep 02	01:26:04	021021	LPU	Dec.	0.6095	1.7500	0.7296	318	177	---	10.9S	66.2E	13	06	758 B.C.E.
07741	Feb	27	757 B.C.E.	03:51:24	1444985.6606989	-0757	Feb 27	09:41:27	021005	LPU	Dec.	0.2756	2.3742	1.3311	351	219	083	11.7N	53.4W	15	12	757 B.C.E.
07742	Aug	21	757 B.C.E.	08:16:16	1445161.846352	-0757	Aug 21	14:06:23	021005	LPU	Dec.	-0.1359	2.5925	1.6244	323	208	096	15.2S	123.4W	13	06	757 B.C.E.
07743	Feb	15	756 B.C.E.	06:26:12	1445339.7681995	-0756	Feb 15	12:16:01	020989	LNT	Asc.	1.0263	1.0186	-0.0681	286	---	---	16.1N	91.2E	14	12	756 B.C.E.
07744	Aug	11	756 B.C.E.	00:44:18	1445516.5307623	-0756	Aug 11	06:34:06	020989	LPU	Dec.	-0.8385	1.2952	0.3433	267	112	---	18.9S	10.2W	14	05	756 B.C.E.
07745	Jan	05	755 B.C.E.	13:25:15	1445664.0592004	-0755	Jan 05	19:14:48	020973	LNN	Asc.	-1.2393	0.6183	-0.4493	224	---	---	22.4N	161.0E	13	10	755 B.C.E.
07746	Jul	02	755 B.C.E.	06:41:58	1445841.7791420	-0755	Jul 02	12:31:30	020973	LNN	Dec.	1.0304	0.9673	-0.0326	257	---	---	22.8S	101.3W	14	04	755 B.C.E.
07747	Dec	25	755 B.C.E.	21:11:55	1446018.3832738	-0755	Dec 26	03:01:29	020973	LPU	Asc.	-0.4896	1.9660	0.9535	321	191	---	23.3N	43.1E	13	10	755 B.C.E.
07748	Jun	21	754 B.C.E.	13:37:53	1446196.0679702	-0754	Jun 21	19:27:08	020957	LTU	Dec.	0.2872	2.3567	1.3059	360	223	082	23.2S	154.0E	14	03	754 B.C.E.
07749	Dec	15	754 B.C.E.	11:00:46	1446372.9588609	-0754	Dec 15	16:50:03	020957	LTU	Asc.	0.2022	2.4743	1.4997	318	204	089	23.3N	165.6W	13	09	754 B.C.E.
07750	Jun	09	753 B.C.E.	14:48:20	1446550.1168984	-0753	Jun 09	20:37:21	020941	LPU	Dec.	-0.4809	2.0103	0.9416	357	207	---	22.7S	135.8E	13	03	753 B.C.E.
07751	Dec	04	753 B.C.E.	02:39:52	1446727.6110173	-0753	Dec 04	08:28:52	020941	LPU	Asc.	0.8671	1.2569	0.2769	268	107	---	22.4N	41.7W	14	09	753 B.C.E.
07752	Apr	30	752 B.C.E.	05:15:43	1446874.7192501	-0752	Apr 30	11:04:29	020925	LNN	Dec.	1.4862	0.1377									

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Month	Day	Hour	Minute								Month	Day	Hour	Minute	Pen.	Par.	Lat.	Lon.	Day	Month	Year				
07812	Jul	22	727	B.C.E.	06:37:34	1456088.7760886	-0727	Jul	22	12:19:41	020527	LNT	Asc.	1.0102	1.0296	-0.0201	278	---	---	21.3S	99.4W	14	04	727	B.C.E.	
07813	Dec	16	727	B.C.E.	19:06:03	1456236.2958670	-0727	Dec	17	00:48:10	020527	LNN	Dec.	1.1362	0.7583	-0.2120	217	---	---	24.4N	73.4E	14	09	727	B.C.E.	
07814	Jan	15	726	B.C.E.	05:29:04	1456265.7285196	-0726	Jan	15	11:10:55	020512	LNN	Dec.	-1.5238	0.0485	-0.9247	059	---	---	21.0N	79.3W	13	10	726	B.C.E.	
07815	Jun	11	726	B.C.E.	17:05:14	1456413.2119678	-0726	Jun	11	22:47:07	020512	LNN	Asc.	-1.0722	0.9227	-0.1406	273	---	---	23.4S	101.7E	14	03	726	B.C.E.	
07816	Dec	06	726	B.C.E.	10:20:15	1456590.9307294	-0726	Dec	06	16:02:06	020512	LPU	Dec.	0.4923	1.9507	-0.0585	311	186	---	---	22.4N	156.4W	14	09	726	B.C.E.
07817	May	30	725	B.C.E.	21:08:09	1456767.3806655	-0725	May	31	02:49:48	020496	LTU	Asc.	-0.2731	2.3673	-1.3468	347	218	084	---	20.9S	40.7E	13	03	725	B.C.E.
07818	Nov	24	725	B.C.E.	01:12:04	1456945.3833843	-0725	Nov	25	02:53:38	020496	LPU	Dec.	-0.1976	2.5189	-1.4723	349	220	092	---	19.4N	39.8E	15	09	725	B.C.E.
07819	Nov	20	724	B.C.E.	08:24:23	1457121.8502712	-0724	Nov	20	14:05:45	020480	LPU	Asc.	0.5036	1.9174	0.9503	311	184	---	---	17.7S	128.1W	13	02	724	B.C.E.
07820	Nov	14	724	B.C.E.	00:47:09	1457299.5327436	-0724	Nov	14	06:28:29	020480	LPU	Dec.	-0.9157	1.2265	-0.1302	306	087	---	---	15.8N	14.4W	14	08	724	B.C.E.
07821	Apr	10	723	B.C.E.	17:57:44	1457447.2484252	-0723	Apr	10	23:38:48	020464	LNN	Asc.	-1.2801	0.4823	-0.4642	178	---	---	6.3S	90.7E	15	01	723	B.C.E.	
07822	May	10	723	B.C.E.	00:44:39	1457797.9880503	-0723	May	10	06:25:44	020464	LNN	Asc.	1.2172	0.5944	-0.3456	195	---	---	14.0S	12.6W	14	02	723	B.C.E.	
07823	Oct	04	723	B.C.E.	05:41:13	1457623.7369602	-0723	Oct	04	11:22:17	020464	LNN	Dec.	1.4237	0.2850	-0.7929	159	---	---	2.6N	87.4W	14	07	723	B.C.E.	
07824	Nov	02	723	B.C.E.	23:50:21	1457653.4932988	-0723	Nov	03	05:31:25	020464	LNN	Dec.	-1.5821	0.0063	-1.0953	025	---	---	11.5N	0.1W	14	08	723	B.C.E.	
07825	Mar	31	722	B.C.E.	09:18:11	1457801.8876245	-0722	Mar	31	14:58:58	020448	LPU	Asc.	-0.5833	1.7800	0.7952	310	177	---	---	1.5S	138.1W	14	01	722	B.C.E.
07826	Sep	23	722	B.C.E.	11:42:48	1457977.9880503	-0722	Sep	23	17:23:37	020448	LPU	Dec.	-0.6634	1.6511	-0.6309	311	167	---	---	2.5S	176.9W	12	07	722	B.C.E.
07827	Mar	19	721	B.C.E.	18:37:25	1458156.2759849	-0721	Mar	20	00:17:55	020432	LTU	Asc.	0.1711	2.5658	1.5228	357	226	097	---	3.5N	83.4E	15	13	721	B.C.E.
07828	Sep	12	721	B.C.E.	00:44:01	1458332.3505647	-0721	Sep	12	06:24:35	020433	LPU	Dec.	-0.0664	2.7213	1.7509	323	209	098	---	7.3S	11.3W	13	06	721	B.C.E.
07829	Mar	08	720	B.C.E.	20:49:26	1458510.3676619	-0720	Mar	09	02:29:43	020417	LPU	Asc.	0.9305	1.1418	0.1103	304	081	---	---	8.4N	51.6E	14	12	720	B.C.E.
07830	Sep	01	720	B.C.E.	17:00:22	1458687.2085921	-0720	Sep	01	22:40:39	020417	LPU	Dec.	-0.7502	1.1980	0.4888	279	135	---	---	11.9S	105.4E	14	06	720	B.C.E.
07831	Jan	27	719	B.C.E.	05:30:16	1458834.7293512	-0719	Jan	27	11:10:17	020401	LNN	Asc.	-1.2683	0.5592	-0.4970	213	---	---	19.2N	78.5W	13	11	719	B.C.E.	
07832	Jul	23	719	B.C.E.	21:11:31	1459012.3829954	-0719	Jul	24	02:51:32	020401	LNN	Dec.	1.1707	0.7157	-0.2958	229	---	---	20.8S	42.4E	15	05	719	B.C.E.	
07833	Aug	22	719	B.C.E.	07:51:35	1459041.7824861	-0719	Aug	22	13:31:36	020401	LNN	Dec.	-1.4999	0.1015	-0.8897	088	---	---	16.2S	116.9W	14	06	719	B.C.E.	
07834	Jan	16	718	B.C.E.	14:17:31	1459189.0954982	-0718	Jan	16	19:57:18	020386	LPU	Asc.	-0.5077	1.9277	-0.9254	316	188	---	---	21.8N	149.0E	13	11	718	B.C.E.
07835	Jul	13	718	B.C.E.	03:00:48	1459366.6255605	-0718	Jul	13	08:40:33	020386	LTU	Dec.	0.4471	2.0677	1.0082	353	209	015	---	22.9S	45.4W	14	04	718	B.C.E.
07836	Jan	06	717	B.C.E.	04:43:07	1459543.6966127	-0717	Jan	06	10:22:38	020370	LPU	Asc.	0.1898	2.4945	1.5249	318	204	090	---	23.7N	68.5W	13	10	717	B.C.E.
07837	Jul	01	717	B.C.E.	03:43:06	1459720.6549360	-0717	Jul	01	09:22:37	020370	LTU	Dec.	-0.3090	2.3266	1.2563	367	224	077	---	24.1S	56.7W	14	04	717	B.C.E.
07838	Dec	25	717	B.C.E.	20:25:21	1459898.3509337	-0717	Dec	26	02:04:50	020370	LPU	Asc.	0.8641	1.2629	0.2819	269	108	---	---	24.6N	54.6E	14	10	717	B.C.E.
07839	Jun	20	716	B.C.E.	06:25:31	1460074.7677214	-0716	Jun	20	12:04:45	020354	LNN	Dec.	-1.0531	0.9427	-0.0908	265	---	---	24.4S	98.1W	13	03	716	B.C.E.	
07840	Nov	15	716	B.C.E.	17:37:10	1460223.2341392	-0716	Nov	15	23:16:24	020354	LNN	Asc.	-1.2734	0.5534	-0.5096	211	---	---	16.0N	93.5E	15	08	716	B.C.E.	
07841	Nov	11	715	B.C.E.	08:15:45	1460399.8442745	-0715	Nov	11	13:54:44	020338	LPU	Dec.	0.8130	1.3440	0.3881	275	122	---	---	14.9S	125.4W	13	02	715	B.C.E.
07842	Nov	04	715	B.C.E.	19:21:10	1460577.3063675	-0715	Nov	05	01:00:08	020338	LPU	Asc.	-0.6247	1.7637	-0.6607	347	181	---	---	13.0N	67.0E	14	08	715	B.C.E.
07843	May	01	714	B.C.E.	01:12:45	1460754.5505168	-0714	May	01	06:51:27	020322	LTU	Dec.	0.0652	2.7088	1.7675	317	205	099	---	12.2S	19.3W	14	02	714	B.C.E.
07844	Oct	24	714	B.C.E.	18:30:35	1460931.2712372	-0714	Oct	25	00:09:18	020322	LTU	Asc.	0.0579	2.7985	1.7062	373	233	104	---	9.5N	79.6E	14	08	714	B.C.E.
07845	Apr	19	713	B.C.E.	17:27:09	1461109.2271866	-0713	Apr	19	23:05:35	020307	LPU	Dec.	-0.6894	1.5779	0.6079	295	155	---	---	9.2S	97.6E	15	01	713	B.C.E.
07846	Oct	12	713	B.C.E.	22:37:41	1461285.4428331	-0713	Oct	13	04:16:39	020307	LPU	Asc.	0.7466	1.5077	0.4687	308	149	---	---	5.8N	18.0E	13	07	713	B.C.E.
07847	Mar	10	712	B.C.E.	15:10:43	1461434.1324394	-0712	Mar	10	20:48:54	020291	LNN	Dec.	1.2789	0.5414	-0.5180	213	---	---	7.9N	136.4E	14	12	712	B.C.E.	
07848	Apr	09	712	B.C.E.	04:31:17	1461463.6883890	-0712	Apr	09	10:09:27	020291	LNN	Dec.	-1.5042	0.1109	-0.9146	097	---	---	5.8S	67.8W	15	01	712	B.C.E.	
07849	Sep	03	712	B.C.E.	00:16:01	1461610.5111253	-0712	Sep	03	05:54:12	020291	LNN	Asc.	-1.2482	0.5478	-0.4126	189	---	---	11.8S	3.2W	14	06	712	B.C.E.	
07850	Oct	02	712	B.C.E.	10:04:37	1461639.9198784	-0712	Oct	02	15:42:49	020291	LNN	Asc.	1.3869	0.3050	-0.6785	147	---	---	2.0N	153.5W	13	07	712	B.C.E.	
07851	Feb	27	711	B.C.E.	15:59:44	1461788.1664828	-0711	Feb	27	21:37:39	020275	LPU	Dec.	0.5727	1.8508	0.7646	351	192	---	---	11.5N	124.6E	14	12	711	B.C.E.
07852	Aug	23	711	B.C.E.	16:42:25	1461965.1961212	-0711	Aug	23	22:20:19	020275	LPU	Asc.	-0.5628	1.8066	0.8437	300	173	---	---	14.8S	110.2E	15	06	711	B.C.E.
07853	Feb	16	710	B.C.E.	17:00:03	1462142.7083074	-0710	Feb	16	22:37:44	020259	LTU	Dec.	-0.1594	2.5970	1.5347	363	227	098	---	14.7N	109.6E	14	12	710	B.C.E.
07854	Aug	13	710	B.C.E.	06:26:03	1462319.7680886	-0710	Aug	13	12:03:39	020259	LPU	Asc.	0.1630	2.5612	1.5568	339	218	095	---	17.4S	95.8W	14	05	710	B.C.E.
07855	Feb	06	709	B.C.E.	00:22:46	1462496.5158049	-0709	Feb	06	06:00:09	020243	LPU	Dec.	-0.8671	1.2719	0.2623	282	113	---	---	17.3N	1.4W	13	11	709	B.C.E.
07856	Apr	01	709	B.C.E.	13:38:08	1462674.0681449	-0709	Apr	01	19:15:31	020243	LPU	Asc.													

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar		
			Day	Time (UT)								Pen.	Par.		Lat.	Lon.	Day	Month	Year
07919	Sep 23 684 B.C.E.	09:48:12	1471857	9084697	-0684	Sep 23 15:19:05	019853	LPU	Dec.	-0.7034	1.5507	0.5837	286	148	---	3.5S	147.9W	14 07	684 B.C.E.
07920	Mar 17 683 B.C.E.	21:06:34	1472005	3795646	-0683	Feb 18 02:37:13	019838	LNN	Asc.	-1.3229	0.4526	-0.5908	192	---	---	13.1N	147.7E	13 12	683 B.C.E.
07921	Feb 19 683 B.C.E.	11:25:07	1472034	9757769	-0683	Mar 19 16:55:46	019838	LNN	Asc.	-1.5126	0.1109	-0.9489	101	---	---	4.8N	168.1W	13 13	683 B.C.E.
07922	Aug 14 683 B.C.E.	12:01:58	1472183	0013649	-0683	Aug 14 17:32:36	019838	LNN	Dec.	1.2895	0.5041	-0.5201	198	---	---	15.8S	180.0E	14 05	683 B.C.E.
07923	Sep 12 683 B.C.E.	23:53:26	1472212	4954413	-0683	Sep 13 05:24:04	019838	LNN	Dec.	-1.4398	0.2180	-0.7856	129	---	---	8.3S	1.7E	15 06	683 B.C.E.
07924	Feb 07 682 B.C.E.	06:59:20	1472359	7912075	-0682	Feb 07 12:29:44	019822	LPU	Asc.	-0.5479	1.8482	0.8572	311	181	---	17.0N	100.3W	13 11	682 B.C.E.
07925	Aug 03 682 B.C.E.	16:43:40	1472537	1969853	-0682	Aug 03 22:14:01	019822	LPU	Asc.	-0.5874	1.8153	0.7459	345	189	---	19.3S	109.7E	15 05	682 B.C.E.
07926	Jan 27 681 B.C.E.	22:02:47	1472714	4185966	-0681	Jan 28 03:32:54	019807	LTU	Asc.	0.1582	2.5493	1.5858	318	204	093	20.4N	33.6E	14 11	681 B.C.E.
07927	Jul 22 681 B.C.E.	17:01:33	1472891	2094057	-0681	Jul 22 22:31:40	019807	LPU	Dec.	-0.1552	2.6102	1.5371	372	233	100	22.1S	104.9E	14 05	681 B.C.E.
07928	Jan 16 680 B.C.E.	13:51:46	1473069	0776110	-0680	Jan 16 19:21:37	019791	LPU	Asc.	0.8477	1.2928	0.3122	273	114	---	23.1N	155.6E	14 11	680 B.C.E.
07929	Jul 11 680 B.C.E.	20:15:55	1473245	3443836	-0680	Jul 12 01:45:46	019791	LPU	Asc.	-0.8966	1.2282	0.1977	291	103	---	24.2S	55.8E	13 04	680 B.C.E.
07930	Dec 07 680 B.C.E.	10:27:28	1473393	9357366	-0680	Dec 07 15:57:18	019791	LNN	Asc.	-1.2833	0.5379	-0.5307	210	---	---	21.0N	157.7W	14 09	680 B.C.E.
07931	Jun 01 679 B.C.E.	23:03:55	1473570	4610477	-0679	Jun 02 04:33:30	019775	LPU	Dec.	-0.9577	0.7661	0.1250	253	059	---	20.1S	12.2E	14 03	679 B.C.E.
07932	Nov 26 679 B.C.E.	11:33:47	1473747	9817920	-0679	Nov 26 17:03:21	019775	LPU	Asc.	-0.6364	1.7438	0.6378	347	179	---	19.4N	175.4W	14 09	679 B.C.E.
07933	May 22 678 B.C.E.	16:14:02	1473925	1764074	-0678	May 22 21:43:21	019760	LTU	Dec.	0.2138	2.4360	1.4950	315	201	089	18.5S	114.4E	13 02	678 B.C.E.
07934	Nov 15 678 B.C.E.	10:50:03	1474101	9514236	-0678	Nov 15 16:19:24	019760	LTU	Asc.	0.0446	2.8222	1.7312	372	232	104	17.0N	165.3W	13 08	678 B.C.E.
07935	May 11 677 B.C.E.	08:08:41	1474279	8393654	-0677	May 11 13:37:45	019745	LPU	Dec.	-0.5465	1.8419	0.8683	310	180	---	16.3S	124.2W	14 02	677 B.C.E.
07936	Nov 03 677 B.C.E.	15:33:39	1474456	1483699	-0677	Nov 03 21:02:45	019745	LPU	Asc.	0.7269	1.5427	0.5063	308	153	---	14.0N	123.3E	13 08	677 B.C.E.
07937	Apr 01 676 B.C.E.	05:16:56	1474604	7200912	-0676	Apr 01 10:45:47	019730	LNN	Dec.	1.4089	0.3024	-0.7561	164	---	---	0.5S	77.1W	14 01	676 B.C.E.
07938	Apr 30 676 B.C.E.	18:28:01	1474634	2694594	-0676	Apr 30 23:56:51	019730	LNN	Dec.	-1.3680	0.3624	-0.6663	173	---	---	13.6S	81.2E	15 02	676 B.C.E.
07939	Sep 24 676 B.C.E.	17:07:43	1474781	2136903	-0676	Sep 24 22:36:32	019730	LNN	Asc.	-1.2989	0.4568	-0.5075	174	---	---	3.4S	102.6E	14 07	676 B.C.E.
07940	Oct 24 676 B.C.E.	03:27:16	1474810	6439298	-0676	Oct 24 08:56:06	019730	LNN	Asc.	1.3586	0.3569	-0.6267	158	---	---	10.7N	55.2W	13 08	676 B.C.E.
07941	Mar 21 675 B.C.E.	05:59:20	1474958	7495314	-0675	Mar 21 11:27:54	019714	LPU	Dec.	0.6903	1.6311	0.5524	338	169	---	3.3N	86.9W	14 13	675 B.C.E.
07942	Sep 14 675 B.C.E.	09:10:31	1475135	8823089	-0675	Sep 14 14:39:05	019714	LPU	Asc.	-0.6335	1.6818	0.7094	296	163	---	7.0S	137.8W	14 06	675 B.C.E.
07943	Mar 10 674 B.C.E.	05:50:53	1475312	8270065	-0674	Mar 10 13:19:14	019699	LTU	Dec.	-0.0641	2.7654	1.7158	361	229	103	7.0N	114.2W	13 12	674 B.C.E.
07944	Sep 03 674 B.C.E.	21:59:11	1475490	4160995	-0674	Sep 03 03:27:27	019699	LTU	Asc.	0.0766	2.7264	1.7089	344	221	101	10.4S	30.3E	15 06	674 B.C.E.
07945	Feb 27 673 B.C.E.	16:22:50	1475667	1825205	-0673	Feb 27 21:50:54	019683	LPU	Dec.	-0.7917	1.4038	0.4069	290	136	---	10.4N	118.2E	14 12	673 B.C.E.
07946	Aug 23 673 B.C.E.	04:01:43	1475844	6678564	-0673	Aug 23 09:29:45	019683	LPU	Asc.	0.8414	1.3481	0.2808	311	124	---	13.5S	60.2W	14 06	673 B.C.E.
07947	Jan 17 672 B.C.E.	01:32:31	1475992	9375766	-0672	Jan 18 03:00:19	019668	LNN	Dec.	1.1627	0.7069	-0.2580	211	---	---	23.2N	40.8E	14 11	672 B.C.E.
07948	Feb 16 672 B.C.E.	06:52:53	1476021	7867217	-0672	Feb 16 12:20:41	019668	LNN	Dec.	-1.4490	0.1797	-0.7813	112	---	---	13.3N	99.2W	13 12	672 B.C.E.
07949	Jul 13 672 B.C.E.	12:50:18	1476169	8349251	-0672	Jul 13 18:18:06	019668	LNN	Asc.	-1.3064	0.4927	-0.5703	207	---	---	24.3S	167.5E	13 04	672 B.C.E.
07950	Aug 12 672 B.C.E.	04:29:34	1476198	6872048	-0672	Aug 12 09:57:22	019668	LNN	Asc.	1.5751	0.0092	-1.0726	030	---	---	16.3S	67.2W	14 05	672 B.C.E.
07951	Jan 07 671 B.C.E.	12:38:47	1476347	4269379	-0671	Jan 07 18:06:18	019652	LPU	Dec.	0.5103	1.9192	0.9243	313	186	---	23.8N	173.0E	14 10	671 B.C.E.
07952	Jul 02 671 B.C.E.	18:01:00	1476523	2506960	-0671	Jul 02 23:28:34	019652	LPU	Asc.	-0.5037	1.9403	0.9274	329	195	---	24.2S	89.0E	13 04	671 B.C.E.
07953	Dec 27 671 B.C.E.	22:38:58	1476701	4437293	-0671	Dec 28 04:06:28	019652	LTU	Dec.	-0.1908	2.5347	1.4816	353	222	093	23.6N	21.5E	15 10	671 B.C.E.
07954	Jun 22 670 B.C.E.	06:26:33	1476877	7684330	-0670	Jun 22 11:53:51	019637	LTU	Asc.	0.2749	2.3337	1.3732	320	203	082	23.2S	98.1W	13 03	670 B.C.E.
07955	Dec 17 670 B.C.E.	01:15:49	1477055	5526463	-0670	Dec 17 06:43:05	019637	LPU	Dec.	-0.9076	1.2431	0.1431	309	091	---	22.5N	19.1W	14 09	670 B.C.E.
07956	May 12 669 B.C.E.	16:37:44	1477203	1928717	-0669	May 12 22:04:45	019621	LNN	Asc.	-1.4885	0.0997	-0.8465	084	---	---	17.7S	108.3E	15 02	669 B.C.E.
07957	Jun 10 669 B.C.E.	23:13:44	1477232	4678659	-0669	Jun 11 04:40:45	019621	LNN	Asc.	0.9988	0.9949	0.0551	241	051	---	21.5S	9.7E	14 03	669 B.C.E.
07958	Nov 05 669 B.C.E.	06:04:53	1477379	5333887	-0669	Nov 05 11:31:55	019621	LNN	Dec.	1.4443	0.2465	-0.8301	148	---	---	15.3N	94.5W	13 08	669 B.C.E.
07959	Dec 05 669 B.C.E.	00:15:09	1477409	5105226	-0669	Dec 05 05:42:10	019621	LNN	Dec.	-1.5651	0.0361	-1.0628	059	---	---	20.4N	5.0W	14 09	669 B.C.E.
07960	May 02 668 B.C.E.	07:22:20	1477557	8071817	-0668	May 02 12:49:06	019606	LPU	Asc.	-0.7954	1.3930	0.4039	290	135	---	13.7S	112.1W	15 02	668 B.C.E.
07961	Oct 25 668 B.C.E.	13:00:49	1477734	4223224	-0668	Oct 25 18:27:36	019606	LPU	Dec.	0.6950	1.5919	0.5738	305	159	---	10.7N	161.8E	12 08	668 B.C.E.
07962	Apr 21 667 B.C.E.	15:35:44	1477912	1498185	-0667	Apr 21 21:02:13	019590	LTU	Asc.	-0.0373	2.8123	1.7675	362	231	105	9.2S	125.6E	14 01	667 B.C.E.
07963	Oct 15 667 B.C.E.	02:28:10	1478088	6028940	-0667	Oct 15 07:54:40	019590	LPU	Dec.	-0.0114	2.8238	1.8502	322	209	099	5.9N	39.4W	13 07	667 B.C.E.
07964	Apr 10 666 B.C.E.	17:15:50	1478266	293262	-0666	Apr 10 22:42:05	019575	LPU	Asc.	0.7309	1.5542	0.4802	333	160	---	4.5S	101.8E	14 01	666 B.C.E.
07965	Oct 04 666 B.C.E.	18:23:16	1478443	2661524	-0666	Oct 04 23:49:30	019575	LPU	Dec.	-0.6863	1.5842	0.6132	288	152	---	1.0N	82.6E	14 07	666 B.C.E.
07966	Feb 29 665 B.C.E.	04:44:03	1478590	6972593	-0665	Feb 29 10:10:03	019559	LNN	Asc.	-1.3596	0.3819	-0.6548	176	---	---	9.3N	67.2W	13 12	665 B.C.E.
07967	Mar 29 665 B.C.E.	18:25:16	1478620	2675475	-0665	Mar 29 23:51:15	019559	LNN	Asc.	1.4480	0.2284	-0.8257	142	---	---	0.5N	85.8E	14 01	665 B.C.E.
07968	Aug 24 665 B.C.E.	19:37:21	1478768	3176098	-0665	Aug 25 01:03:20	019559	LNN	Dec.	1.3388	0.4170	-0.6139	182	---	---	12.4S	65.9E	15 06	665 B.C.E.
07969	Sep 23 665 B.C.E.	08:05:48	1478797	8373621	-0665	Sep 23 13:31:48	019559	LNN	Dec.	-1.4202	0.2572	-0.7526	140	---	---	4.0S	122.1W	14 07	665 B.C.E.

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
			Julian Date (UT)	Date (UT)								Pen.	Par.	Lat.	Lon.	Day	Month	Year
08026	Jun 13	642 B.C.E.	07:11:12	1487095.7994502	-0642	Jun 13 12:31:19	019207	LTU	Dec.	0.3649	2.1601	1.2166	309	192	065	22.4S	109.5W	14 03 642 B.C.E.
08027	Dec 07	642 B.C.E.	03:19:27	1487272.6385098	-0642	Dec 07 08:39:36	019207	LTU	Asc.	0.0374	2.8331	1.7465	370	231	104	22.1N	51.1W	13 09 642 B.C.E.
08028	Jun 01	641 B.C.E.	22:36:14	1487450.4418244	-0641	Jun 02 03:56:04	019192	LTU	Dec.	-0.3954	2.1222	1.1427	323	199	056	21.5S	18.7E	15 03 641 B.C.E.
08029	Nov 25	641 B.C.E.	08:48:04	1487626.8667082	-0641	Nov 25 14:07:57	019192	LPU	Asc.	0.7198	1.5531	0.5216	306	154	---	20.5N	134.4W	13 09 641 B.C.E.
08030	Apr 22	640 B.C.E.	18:48:16	1487775.2835207	-0640	Apr 23 00:07:53	019177	LNN	Dec.	1.5624	0.0208	-1.0377	044	---	---	8.5S	78.0E	15 01 640 B.C.E.
08031	May 22	640 B.C.E.	08:01:47	1487804.8345731	-0640	May 22 13:21:24	019177	LNN	Asc.	-1.2156	0.6447	-0.3891	226	---	---	19.9S	123.0W	14 02 640 B.C.E.
08032	Oct 16	640 B.C.E.	15:49:17	1487951.9372760	-0640	Oct 16 15:49:17	019177	LNN	Asc.	-1.3267	0.4076	-0.5603	165	---	---	5.4N	159.3W	13 07 640 B.C.E.
08033	Nov 14	640 B.C.E.	21:10:52	1487981.3825433	-0640	Nov 15 02:30:28	019177	LNN	Asc.	1.3466	0.3783	-0.6041	162	---	---	18.3N	39.0E	13 08 640 B.C.E.
08034	Apr 11	639 B.C.E.	19:28:14	1488129.3112708	-0639	Apr 12 00:47:35	019161	LPU	Dec.	0.8328	1.3660	0.2945	318	128	---	5.0S	68.7E	14 01 639 B.C.E.
08035	Oct 06	639 B.C.E.	02:07:51	1488306.5887795	-0639	Oct 07 07:27:11	019161	LPU	Asc.	-0.6788	1.6033	0.6215	293	156	---	1.8N	33.5W	14 07 639 B.C.E.
08036	Mar 31	638 B.C.E.	22:13:30	1488483.4260409	-0638	Apr 01 03:32:39	019146	LTU	Dec.	0.0584	2.7696	1.7324	357	228	103	1.3S	28.2E	13 01 638 B.C.E.
08037	Sep 25	638 B.C.E.	14:01:48	1488661.0845831	-0638	Sep 25 19:20:50	019146	LTU	Asc.	0.0175	2.8413	1.8109	348	223	102	2.0S	148.3E	14 07 638 B.C.E.
08038	Mar 20	637 B.C.E.	07:54:33	1488837.8295444	-0637	Mar 20 13:13:25	019131	LPU	Dec.	-0.6891	1.5860	0.6013	298	158	---	2.2N	116.4W	13 13 637 B.C.E.
08039	Sep 13	637 B.C.E.	18:55:35	1489015.2885962	-0637	Sep 14 00:14:25	019131	LPU	Asc.	0.7614	1.5008	0.4220	325	149	---	5.7S	75.3E	14 06 637 B.C.E.
08040	Feb 08	636 B.C.E.	14:37:09	1489163.1901270	-0636	Feb 08 19:55:43	019115	LNN	Dec.	1.2084	0.6208	-0.3394	199	---	---	18.1N	145.9E	13 11 636 B.C.E.
08041	Mar 09	636 B.C.E.	23:10:36	1489192.4656892	-0636	Mar 10 04:29:10	019115	LNN	Asc.	-1.3675	0.3252	-0.6280	148	---	---	5.7N	15.2E	14 12 636 B.C.E.
08042	Aug 04	636 B.C.E.	02:36:32	1489339.6087063	-0636	Aug 04 07:55:06	019115	LNN	Asc.	-1.4350	0.2573	-0.8068	152	---	---	20.8S	38.0W	13 05 636 B.C.E.
08043	Sep 02	636 B.C.E.	18:49:04	1489369.2840729	-0636	Sep 03 00:07:38	019115	LNN	Asc.	1.4738	0.1980	-0.8895	137	---	---	9.4S	77.3E	14 06 636 B.C.E.
08044	Jan 29	635 B.C.E.	05:39:21	1489517.7356617	-0635	Jan 29 10:57:40	019100	LPU	Dec.	0.5463	1.8531	0.8581	311	182	---	20.3N	80.3W	14 11 635 B.C.E.
08045	Jul 24	635 B.C.E.	08:27:18	1489693.8522955	-0635	Jul 24 13:45:40	019100	LPU	Asc.	-0.6365	1.6953	0.6849	315	173	---	22.3S	126.3W	13 05 635 B.C.E.
08046	Jan 18	634 B.C.E.	15:09:28	1489872.3115776	-0634	Jan 18 20:27:31	019085	LTU	Dec.	-0.1670	2.5792	1.5248	356	224	096	21.8N	136.2E	15 11 634 B.C.E.
08047	Jul 13	634 B.C.E.	21:28:11	1490048.3945767	-0634	Jul 14 02:46:18	019085	LTU	Asc.	0.1356	2.5886	1.6295	322	208	096	23.0S	37.8E	13 04 634 B.C.E.
08048	Jan 07	633 B.C.E.	17:16:59	1490226.2201243	-0633	Jan 07 22:34:49	019070	LPU	Dec.	-0.8886	1.2773	0.1788	312	102	---	22.5N	103.1E	15 10 633 B.C.E.
08049	Jul 02	633 B.C.E.	14:21:15	1490403.0980905	-0633	Jul 02 19:39:05	019070	LPU	Asc.	0.8595	1.2522	0.3093	264	104	---	22.9S	143.8E	13 04 633 B.C.E.
08050	Nov 26	633 B.C.E.	22:45:40	1490550.4483837	-0633	Nov 27 04:03:31	019071	LNN	Dec.	1.4419	0.2489	-0.8234	147	---	---	21.6N	16.3E	13 09 633 B.C.E.
08051	Dec 26	633 B.C.E.	16:29:43	1490580.1873026	-0633	Dec 26 21:47:33	019071	LNN	Asc.	-1.5490	0.0629	-1.0302	077	---	---	22.4N	113.6E	14 10 633 B.C.E.
08052	May 23	632 B.C.E.	21:38:24	1490728.4016695	-0632	May 24 02:55:59	019055	LPU	Asc.	-0.9538	1.1052	0.1106	269	073	---	20.1S	33.1E	15 02 632 B.C.E.
08053	Nov 16	632 B.C.E.	06:23:15	1490904.7661435	-0632	Nov 16 11:40:51	019055	LPU	Dec.	0.6954	1.5893	0.5748	302	158	---	18.1N	98.7W	13 08 632 B.C.E.
08054	Mar 13	631 B.C.E.	00:05:16	1491086.7805234	-0631	Mar 13 10:17:35	019040	LTU	Asc.	-0.2005	2.5143	1.4664	362	227	095	16.5S	77.0W	14 02 631 B.C.E.
08055	Nov 05	631 B.C.E.	20:09:34	1491259.3399724	-0631	Nov 06 01:26:54	019040	LTU	Dec.	0.0002	2.8449	1.8704	321	208	098	14.1N	54.6E	14 08 631 B.C.E.
08056	May 02	630 B.C.E.	06:18:58	1491436.7631684	-0630	May 02 11:36:03	019025	LPU	Asc.	0.5688	1.8496	0.7795	350	194	---	12.4S	95.9W	14 02 630 B.C.E.
08057	Oct 26	630 B.C.E.	11:52:12	1491613.9945884	-0630	Oct 26 17:09:17	019025	LPU	Dec.	-0.6688	1.6197	0.6418	291	157	---	9.7N	179.3E	14 08 630 B.C.E.
08058	Mar 21	629 B.C.E.	19:36:36	1491761.3170870	-0629	Mar 22 00:53:26	019010	LNN	Asc.	-1.4525	0.2048	-0.8188	130	---	---	0.9N	67.9E	13 629 B.C.E.
08059	Apr 20	629 B.C.E.	08:09:18	1491790.8397875	-0629	Apr 20 13:26:07	019010	LNN	Asc.	1.3004	0.4939	-0.5497	203	---	---	7.9S	122.4W	13 01 629 B.C.E.
08060	Sep 15	629 B.C.E.	11:09:31	1491938.9649433	-0629	Sep 15 16:26:22	019010	LNN	Dec.	1.4169	0.2804	-0.7637	153	---	---	4.4S	168.4W	14 06 629 B.C.E.
08061	Oct 15	629 B.C.E.	00:49:06	1491968.5340992	-0629	Oct 15 06:05:56	019010	LNN	Dec.	-1.3980	0.3037	-0.7175	153	---	---	4.9N	14.3W	15 07 629 B.C.E.
08062	Jun 11	628 B.C.E.	07:06:59	1492115.7965147	-0628	Jun 11 12:23:35	018995	LPU	Asc.	-0.6582	1.6371	0.6632	297	161	---	5.8N	103.5W	13 12 628 B.C.E.
08063	Sep 04	628 B.C.E.	14:13:54	1492293.0929875	-0628	Sep 04 19:30:29	018995	LPU	Dec.	0.7460	1.5320	0.4473	331	154	---	9.2S	146.4E	14 06 628 B.C.E.
08064	Feb 28	627 B.C.E.	23:06:53	1492470.4631159	-0627	Mar 01 04:23:12	018979	LTU	Asc.	0.0647	2.7162	1.7621	318	205	098	10.4N	17.5E	14 12 627 B.C.E.
08065	Aug 24	627 B.C.E.	14:01:19	1492647.0842439	-0627	Aug 24 19:17:40	018979	LTU	Dec.	0.0273	2.8475	1.7690	373	234	105	13.8S	150.2E	13 06 627 B.C.E.
08066	Jan 18	626 B.C.E.	15:03:58	1492825.1277492	-0626	Jan 18 20:20:01	018964	LPU	Asc.	0.8711	1.4140	0.4354	283	134	---	14.7N	138.8E	14 12 626 B.C.E.
08067	Aug 13	626 B.C.E.	18:02:29	1493001.2517248	-0626	Aug 13 23:18:34	018964	LPU	Dec.	-0.7037	1.5812	0.5525	314	161	---	17.9S	90.2E	13 05 626 B.C.E.
08068	Jan 09	625 B.C.E.	11:15:20	1493149.9689769	-0625	Jan 09 16:31:09	018949	LNN	Asc.	-1.3149	0.4816	-0.5904	202	---	---	21.9N	166.1W	14 10 625 B.C.E.
08069	Feb 08	625 B.C.E.	02:21:43	1493179.5984807	-0625	Feb 08 07:37:31	018949	LNN	Asc.	1.5550	0.0224	-1.0125	044	---	---	18.7N	30.5W	15 11 625 B.C.E.
08070	Jul 03	625 B.C.E.	21:31:18	1493326.3967409	-0625	Jul 04 02:47:07	018949	LNN	Dec.	1.1651	0.6944	-0.2542	210	---	---	22.5S	36.6E	14 04 625 B.C.E.
08071	Aug 02	625 B.C.E.	05:28:58	1493353.7845066	-0625	Aug 02 10:44:47	018949	LNN	Dec.	-1.3879	0.2973	-0.6748	146	---	---	21.3S	81.4W	13 05 625 B.C.E.
08072	Dec 28	625 B.C.E.	11:44:58	1493505.9285565	-0625	Dec 28 17:00:47	018949	LPU	Asc.	-0.6578	1.7037	0.5996	345	175	---	23.2N	174.8W	14 10 625 B.C.E.
08073	Jun 23	624 B.C.E.	14:42:15	1493681.1126698	-0624	Jun 23 19:57:48	018934	LTU	Dec.	0.4376	2.0276	1.0819	306	185	042	23.2S	138.2E	14 04 624 B.C.E.
08074	Dec 17	624 B.C.E.	11:33:11	1493857.9813719	-0624	Dec 17 16:48:46	018934	LTU	Asc.	0.0327	2.8400	1.7567	369	231	104	23.3N	173.3W	13 10 624 B.C.E.
08075	Jun 13	623 B.C.E.	05:48:40	1494035.7421307	-0623	Jun 13 11:03:57	018919	LTU	Dec.	-0.3201	2.2624	1.2790	328	207	075	23.1S	89.0W	15 03 623 B.C.E.
08076	Dec 06	623 B.C.E.	17:26:39	1494212.2268460	-0623	Dec 06 22:41:59	018919	LPU	Asc.	0.7166	1.5574	0.5292	306	155	---	22.7N	96.9E	13 09 623 B.C.E.
08077	Jun 02	622 B.C.E.	14:44:19	1494390.1141062	-0622	Jun 02 19:59:21	018903	LNN	Dec.	-1.1369	0.7907	-0.2463	248	---	---	22.2S	136.5E	14 03 622 B.C.E.
08078																		

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar					
			Julian Date (UT)	(UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen. Par.	(minutes) Tot.	Lat.	Lon.	Day Month Year	Day Month Year		
08133	Mar 31	6:00 B.C.E.	14:58:05	1502363.1236708	-0600	Mar 31	20:07:38	018573	LNN	Dec.	-1.2614	0.5166	-0.4300	183	---	2.7S	136.3E	13 01 600	B.C.E.
08134	Aug 25	6:00 B.C.E.	17:00:57	1502510.2089974	-0600	Aug 25	22:10:31	018573	LNN	Asc.	-1.5346	0.0756	-0.9904	083	---	14.6S	105.9E	14 06 600	B.C.E.
08135	Sep 24	6:00 B.C.E.	09:48:09	1502539.9084357	-0600	Sep 24	14:57:41	018573	LNN	Asc.	1.4016	0.3329	-0.7595	175	---	1.0S	148.9W	13 07 600	B.C.E.
08136	Feb 19	5:59 B.C.E.	22:05:26	1502688.4204394	-0599	Feb 20	03:14:43	018558	LPU	Dec.	0.6087	1.7385	0.7439	308	174	13.9N	33.4E	15 12 599	B.C.E.
08137	Aug 14	5:59 B.C.E.	23:28:35	1502864.4781783	-0599	Aug 15	04:37:54	018558	LPU	Dec.	-0.7443	1.4969	0.4877	301	150	17.4S	8.9E	13 05 599	B.C.E.
08138	Feb 09	5:58 B.C.E.	07:03:39	1503042.7941978	-0598	Feb 09	12:12:39	018543	LTU	Dec.	-0.1163	2.6720	1.6176	359	227	16.7N	101.3W	14 11 598	B.C.E.
08139	Aug 04	5:58 B.C.E.	12:56:06	1503219.0389542	-0598	Aug 04	18:05:09	018543	LTU	Asc.	0.0159	2.8087	1.8488	322	209	19.5S	166.7E	13 05 598	B.C.E.
08140	Jan 29	5:57 B.C.E.	08:48:54	1503396.8672953	-0597	Jan 29	13:57:42	018528	LPU	Dec.	-0.8464	1.3527	0.2582	319	121	19.0N	128.2W	14 11 597	B.C.E.
08141	Jul 24	5:57 B.C.E.	05:44:05	1503573.7389426	-0597	Jul 24	10:52:52	018528	LPU	Asc.	0.7332	1.4866	0.5382	280	140	20.9S	85.8W	14 05 597	B.C.E.
08142	Dec 18	5:57 B.C.E.	15:28:58	1503721.1451180	-0597	Dec 18	20:37:45	018528	LNN	Dec.	1.4399	0.2490	-0.8163	146	---	24.8N	128.0E	13 10 597	B.C.E.
08143	Jan 17	5:56 B.C.E.	08:26:36	1503750.8517998	-0596	Jan 17	13:35:09	018513	LNN	Dec.	-1.5161	0.1188	-0.9656	105	---	20.7N	123.5W	13 11 596	B.C.E.
08144	Jun 14	5:56 B.C.E.	11:44:58	1503898.9895654	-0596	Jun 14	16:53:31	018513	LNN	Asc.	-1.1152	0.8129	-0.1894	240	---	24.0S	178.0W	14 03 596	B.C.E.
08145	Jul 13	5:56 B.C.E.	21:13:22	1503928.3842871	-0596	Jul 14	02:21:55	018513	LNN	Asc.	1.4981	0.0987	-0.8806	087	---	21.6S	41.3E	15 04 596	B.C.E.
08146	Dec 07	5:56 B.C.E.	23:54:13	1504075.4959803	-0596	Dec 08	05:02:47	018513	LPU	Dec.	0.6914	1.5938	0.5850	301	158	23.0N	0.3E	13 09 596	B.C.E.
08147	Jun 03	5:55 B.C.E.	18:08:29	1504253.2558906	-0595	Jun 03	23:16:45	018498	LTU	Asc.	-0.3733	2.1996	1.1470	357	216	21.8S	85.8E	15 03 595	B.C.E.
08148	Nov 27	5:55 B.C.E.	14:04:06	1504430.0861822	-0595	Nov 27	19:12:25	018498	LTU	Dec.	0.0010	2.8430	1.8691	321	208	20.3N	146.9E	13 09 595	B.C.E.
08149	May 23	5:54 B.C.E.	19:07:36	1504607.2969414	-0594	May 24	00:15:39	018483	LTU	Asc.	0.3938	2.1696	1.1021	362	217	18.8S	71.0E	14 02 594	B.C.E.
08150	Nov 17	5:54 B.C.E.	05:36:42	1504784.7338147	-0594	Nov 17	10:44:44	018483	LPU	Dec.	-0.6660	1.6275	0.6443	293	158	17.0N	86.8W	14 08 594	B.C.E.
08151	May 11	5:53 B.C.E.	21:40:46	1504961.4033124	-0593	Jul 12	02:48:35	018468	LNN	Asc.	1.1376	0.7883	-0.2465	247	---	15.2S	33.2E	13 02 593	B.C.E.
08152	Oct 07	5:53 B.C.E.	03:11:10	1505109.6327516	-0593	Oct 07	08:18:58	018468	LNN	Dec.	1.4675	0.1939	-0.8624	129	---	4.4N	50.1E	14 07 593	B.C.E.
08153	Nov 05	5:53 B.C.E.	17:52:48	1505139.2450041	-0593	Nov 05	23:00:36	018468	LNN	Dec.	-1.3949	0.3141	-0.7167	157	---	13.0N	89.1E	15 08 593	B.C.E.
08154	Apr 01	5:52 B.C.E.	22:36:58	1505286.4423363	-0592	Apr 02	03:44:31	018453	LPU	Asc.	-0.7637	1.4384	0.4748	283	136	2.8S	21.9E	13 01 592	B.C.E.
08155	Sep 26	5:52 B.C.E.	05:16:22	1505463.7197022	-0592	Sep 26	10:23:55	018453	LPU	Dec.	0.8141	1.4116	0.3177	323	133	0.7S	80.7W	14 07 592	B.C.E.
08156	Sep 22	5:51 B.C.E.	15:09:40	1505641.1317186	-0591	Sep 22	20:16:59	018438	LTU	Asc.	-0.0309	2.7754	1.8269	318	205	09.9N	135.0E	13 13 591	B.C.E.
08157	Mar 15	5:51 B.C.E.	04:51:17	1505817.8913569	-0591	Mar 15	09:58:37	018438	LTU	Dec.	0.1096	2.6982	1.6164	371	232	10.2N	37.4W	13 06 591	B.C.E.
08158	Jul 24	5:50 B.C.E.	07:05:44	1505995.7956435	-0590	Jul 24	12:12:46	018423	LPU	Dec.	0.7025	1.5578	0.5801	293	153	6.7N	102.9W	14 12 590	B.C.E.
08159	Sep 04	5:50 B.C.E.	09:23:33	1506171.8913569	-0590	Sep 04	14:30:38	018423	LPU	Dec.	-0.6118	1.7498	0.7212	321	178	10.6S	140.7W	13 06 590	B.C.E.
08160	Jan 31	5:49 B.C.E.	03:09:58	1506320.6319267	-0589	Jan 31	08:16:47	018408	LNN	Asc.	-1.3608	0.3972	-0.6742	186	---	18.1N	43.3W	15 11 589	B.C.E.
08161	Feb 29	5:49 B.C.E.	17:55:09	1506350.2466338	-0589	Feb 29	23:01:57	018408	LNN	Asc.	1.4929	0.1364	-0.8985	107	---	11.5N	95.7E	15 12 589	B.C.E.
08162	Jul 25	5:49 B.C.E.	12:53:16	1506497.0369956	-0589	Jul 25	18:00:05	018408	LNN	Dec.	1.2848	0.4754	-0.4748	177	---	20.1S	167.0E	13 05 589	B.C.E.
08163	Aug 23	5:49 B.C.E.	21:17:31	1506526.3871696	-0589	Aug 24	02:24:20	018408	LNN	Dec.	-1.2871	0.4828	-0.4903	182	---	15.0S	41.1E	15 06 589	B.C.E.
08164	Jan 19	5:48 B.C.E.	03:27:25	1506674.6440431	-0588	Jan 19	08:33:59	018394	LPU	Asc.	-0.6910	1.6402	0.5410	341	168	21.1N	48.2W	14 11 588	B.C.E.
08165	Jul 15	5:48 B.C.E.	05:52:37	1506851.7448770	-0588	Jul 15	10:59:11	018394	LPU	Dec.	0.5746	1.7994	0.8274	298	170	22.3S	88.2W	14 04 588	B.C.E.
08166	Jan 08	5:47 B.C.E.	03:51:27	1507028.6607235	-0587	Jan 08	08:57:47	018380	LTU	Asc.	0.0134	2.8711	1.7967	366	230	23.2N	55.2W	13 10 587	B.C.E.
08167	Jul 04	5:47 B.C.E.	20:14:15	1507206.3422996	-0587	Jul 05	01:20:33	018380	LTU	Dec.	-0.1727	2.5376	1.5447	337	217	09.5N	55.8E	15 04 587	B.C.E.
08168	Dec 28	5:47 B.C.E.	10:41:22	1507382.9453921	-0587	Dec 28	15:47:43	018380	LPU	Asc.	0.7061	1.5723	0.5527	304	157	24.4N	159.1W	13 10 587	B.C.E.
08169	Jun 24	5:46 B.C.E.	04:06:51	1507560.6714198	-0586	Jun 24	09:12:55	018365	LPU	Dec.	-0.9787	1.0849	0.0400	284	104	24.5S	63.1W	14 04 586	B.C.E.
08170	Nov 18	5:46 B.C.E.	13:11:13	1507708.4945885	-0586	Nov 18	17:18:17	018365	LNN	Asc.	-1.3397	0.3853	-0.5858	161	---	16.7N	160.1E	13 09 586	B.C.E.
08171	Dec 17	5:46 B.C.E.	23:56:25	1507737.4975103	-0586	Dec 18	05:02:30	018365	LNN	Asc.	1.3364	0.3943	-0.5827	164	---	24.7N	0.6E	13 10 586	B.C.E.
08172	May 13	5:45 B.C.E.	15:01:16	1507885.1258854	-0585	May 13	20:07:06	018350	LNN	Dec.	1.0782	0.9113	-0.1515	271	---	15.8S	133.2E	13 02 585	B.C.E.
08173	Nov 07	5:45 B.C.E.	04:17:49	1508062.6790400	-0585	Nov 07	09:23:38	018350	LPU	Asc.	-0.7070	1.5576	0.5640	293	153	14.2N	67.1W	14 08 585	B.C.E.
08174	Oct 27	5:44 B.C.E.	19:10:15	1508239.2987897	-0584	Oct 30	00:15:53	018335	LTU	Dec.	0.2790	2.3566	1.3357	346	218	18.8N	083.1E	13 12 584	B.C.E.
08175	Oct 27	5:44 B.C.E.	14:53:51	1508417.1207288	-0584	Oct 27	19:59:24	018335	LPU	Asc.	-0.0244	2.8371	1.7899	353	225	11.0N	131.6E	14 08 584	B.C.E.
08176	Apr 22	5:43 B.C.E.	06:28:41	1508593.7699206	-0583	Apr 22	11:34:03	018320	LPU	Dec.	-0.4935	1.9369	0.9678	311	185	10.1S	98.0W	13 01 583	B.C.E.
08177	Oct 16	5:43 B.C.E.	18:16:19	1508771.2613278	-0583	Oct 16	23:21:38	018320	LPU	Asc.	0.6936	1.6325	0.5390	337	166	7.4N	83.1E	14 07 583	B.C.E.
08178	Mar 13	5:42 B.C.E.	15:12:12	1508919.1334707	-0582	Mar 13	20:17:17	018305	LNN	Dec.	1.3273	0.3994	-0.5544	163	---	6.7N	135.8E	14 12 582	B.C.E.
08179	Apr 11	5:42 B.C.E.	22:42:09	1508948.4459427	-0582	Apr 12	03:47:14	018305	LNN	Dec.	-1.2003	0.6273	-0.3166	199	---	6.9S	19.3E	14 01 582	B.C.E.
08180	Sep 06	5:42 B.C.E.	00:28:32	1509095.5198109	-0582	Sep 06	05:33:38	018305	LNN	Asc.	-1.5730	0.0056	-1.0613	023	---	10.7S	6.5W	13 06 582	B.C.E.
08181	Oct 05	5:42 B.C.E.	17:31:57	1509125.2305233	-0582	Oct 05	22:37:03	018305	LNN	Asc.	1.3760	0.3808	-0.7135	186	---	3.4N	94.5E	14 07 582	B.C.E.
08182	Mar 02	5:41 B.C.E.	06:03:25	1509273.7523767	-0581	Mar 02	11:08:14	018290	LPU	Dec.	0.6513	1.6603	0.6658	305	167	10.1N	86.5W	15 12 581	B.C.E.
08183	Aug 25	5:41 B.C.E.	07:13:21	1509449.8009385	-0581	Aug 25	12:18:12	018290	LPU	Asc.	-0.7878	1.4170	0.4080	295	138	14.0S	107.5W	13 06 581	B.C.E.
08184	Feb 19	5:40 B.C.E.	14:45:4																

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (minutes)		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar			
	Month	Day	Time (UT)	Julian Date (UT)	Day								Time (UT)	Pen.		Par.	Lat.	Lon.	Day	Month	Year
08240	Jun	14	07:55:23	1517777.8301276	-0558	Jun 14 12:54:34	017950	LUN	Asc.	0.2163	2.4947	1.4283	370	230	093	22.7S	120.6W	13	03	558	B.C.E.
08241	Dec	08	23:25:34	1517955.4760834	-0558	Dec 09 04:24:43	017950	LUN	Dec.	-0.6686	1.6246	0.6379	294	159	---	21.8N	7.6E	14	09	558	B.C.E.
08242	Jun	02	11:10:48	1518131.9658355	-0557	Jun 02 16:09:45	017936	LUN	Asc.	0.9684	1.0951	0.0674	279	061	---	20.4S	169.7W	13	03	557	B.C.E.
08243	Oct	28	19:35:30	1518280.3163250	-0557	Oct 29 00:34:27	017937	LUN	Dec.	1.4960	0.1467	-0.9199	114	---	---	13.0N	62.8E	15	08	557	B.C.E.
08244	Nov	27	11:04:35	1518309.9615209	-0557	Nov 27 16:03:33	017937	LUN	Dec.	-1.4014	0.3059	-0.7323	156	---	---	19.1N	168.0W	14	09	557	B.C.E.
08245	Apr	23	13:46:14	1518457.0737720	-0556	Apr 23 18:44:56	017922	LUN	Asc.	-0.8882	1.2057	0.2506	264	096	---	11.2S	152.5E	13	01	556	B.C.E.
08246	Oct	17	20:50:12	1518634.3681891	-0556	Oct 18 01:48:54	017922	LUN	Dec.	0.8547	1.3408	0.2396	319	117	---	8.1N	44.6E	14	07	556	B.C.E.
08247	Apr	13	06:43:03	1518811.7798956	-0555	Apr 13 11:41:30	017907	LUN	Asc.	-0.1505	2.5541	1.6092	316	203	094	6.6S	100.6W	14	01	555	B.C.E.
08248	Oct	06	20:21:35	1518988.3483254	-0555	Oct 07 01:20:04	017907	LUN	Dec.	0.1605	2.6059	1.5218	369	229	097	3.1N	52.5E	13	07	555	B.C.E.
08249	Apr	02	22:31:25	1519166.4384823	-0554	Apr 03 03:29:37	017893	LUN	Asc.	0.5972	1.7512	0.7733	306	173	---	1.9S	23.6E	15	01	554	B.C.E.
08250	Sep	26	01:25:05	1519342.5590820	-0554	Sep 26 06:23:19	017893	LUN	Dec.	-0.5501	1.8630	0.8347	325	186	---	2.0S	22.4W	13	07	554	B.C.E.
08251	Feb	21	18:24:43	1519491.2671677	-0553	Feb 21 23:22:42	017878	LUN	Asc.	-1.4350	0.2602	-0.8095	153	---	---	11.5N	88.0E	15	12	553	B.C.E.
08252	Mar	22	08:46:35	1519520.8656850	-0553	Mar 22 13:44:34	017878	LUN	Asc.	1.4006	0.3059	-0.7293	160	---	---	3.0N	128.9W	14	13	553	B.C.E.
08253	Aug	16	04:44:05	1519667.6972815	-0553	Aug 16 09:42:03	017878	LUN	Dec.	1.3818	0.2991	-0.6544	143	---	---	14.7S	70.6W	13	05	553	B.C.E.
08254	Sep	14	13:43:06	1519697.0715977	-0553	Sep 14 18:41:04	017878	LUN	Dec.	-1.2149	0.6161	-0.3586	202	---	---	7.0S	154.0E	13	06	553	B.C.E.
08255	Feb	09	18:37:30	1519845.2760396	-0552	Feb 09 23:35:13	017863	LUN	Asc.	-0.7495	1.5293	0.4372	333	153	---	15.8N	85.1E	14	11	552	B.C.E.
08256	Aug	05	21:22:13	1520022.3904279	-0552	Aug 06 02:19:56	017863	LUN	Dec.	0.6932	1.5662	0.6057	288	151	---	18.3S	40.1E	14	05	552	B.C.E.
08257	Jan	29	19:48:28	1520199.3253286	-0551	Jan 30 00:46:01	017849	LUN	Asc.	-0.0252	2.8438	1.7804	363	229	104	19.4N	67.3E	13	11	551	B.C.E.
08258	Jul	26	05:11:36	1520373.9525027	-0551	Jul 26 15:49:02	017849	LUN	Dec.	-0.0396	2.7476	1.7833	342	222	102	21.3S	162.4W	14	05	551	B.C.E.
08259	Jan	19	03:39:59	1520553.6527710	-0550	Jan 19 08:37:15	017834	LUN	Asc.	0.6803	1.6144	0.6052	304	162	---	22.4N	51.3W	13	11	550	B.C.E.
08260	Jul	15	17:37:03	1520731.2340639	-0550	Jul 15 22:34:17	017834	LUN	Dec.	-0.8295	1.3634	0.3089	311	129	---	23.6S	95.8E	15	04	550	B.C.E.
08261	Dec	10	07:08:06	1520788.7972865	-0550	Dec 10 12:05:20	017834	LUN	Asc.	-1.3415	0.3820	-0.5891	160	---	---	21.3N	107.6W	14	09	550	B.C.E.
08262	Jan	08	17:35:25	1520908.2329327	-0549	Jan 08 22:32:25	017819	LUN	Asc.	1.3211	0.4195	-0.5518	168	---	---	24.5N	98.8E	14	10	549	B.C.E.
08263	Jun	04	03:55:32	1521055.6635683	-0549	Jun 04 08:52:31	017819	LUN	Dec.	1.2475	0.5986	-0.4601	226	---	---	20.6S	60.6W	13	03	549	B.C.E.
08264	Nov	28	17:57:30	1521233.4149289	-0549	Nov 29 02:54:28	017819	LUN	Asc.	-0.7126	1.5502	0.5509	295	153	---	20.1N	29.5E	15	09	549	B.C.E.
08265	May	24	08:59:35	1521409.8747150	-0548	May 24 13:56:22	017805	LUN	Dec.	0.4373	2.0619	1.0496	335	203	035	19.1S	136.9W	13	03	548	B.C.E.
08266	Nov	18	07:47:21	1521587.8245470	-0548	Nov 18 12:44:04	017805	LUN	Asc.	-0.0329	2.8257	1.7701	356	226	102	18.1N	119.5W	14	09	548	B.C.E.
08267	Jan	13	21:13:37	1521764.3844594	-0547	Jan 14 02:10:09	017790	LUN	Dec.	-0.3442	2.2068	1.2456	318	198	070	17.0S	39.6E	13	02	547	B.C.E.
08268	Nov	07	10:20:02	1521941.0799450	-0547	Nov 07 15:16:31	017770	LUN	Asc.	0.6746	1.6708	0.5706	341	171	---	15.4N	158.3W	14	08	547	B.C.E.
08269	Apr	04	06:54:32	1522089.7878710	-0546	Apr 04 11:50:47	017775	LUN	Dec.	1.4391	0.1928	-0.7584	116	---	---	1.7S	101.8E	14	01	546	B.C.E.
08270	May	03	13:55:07	1522119.0799450	-0546	May 03 18:51:23	017775	LUN	Dec.	-1.0655	0.8730	-0.0675	229	---	---	14.5S	149.4E	13	02	546	B.C.E.
08271	Oct	27	09:22:42	1522295.8907652	-0546	Oct 27 14:18:57	017775	LUN	Asc.	1.3418	0.4446	-0.6518	200	---	---	11.9N	144.2W	13	08	546	B.C.E.
08272	Mar	23	21:30:33	1522444.3962152	-0545	Mar 24 02:26:33	017761	LUN	Dec.	0.7577	1.4652	0.4702	295	145	---	1.8N	39.9E	15	13	545	B.C.E.
08273	Sep	15	23:13:52	1522620.4679645	-0545	Sep 16 04:09:54	017761	LUN	Asc.	-0.8518	1.2996	0.2907	284	118	---	6.0S	11.2E	13	06	545	B.C.E.
08274	Mar	13	05:37:02	1522798.7340499	-0544	Mar 13 10:32:47	017746	LUN	Dec.	0.0176	2.8527	1.7995	363	230	105	5.4N	81.0W	14	12	544	B.C.E.
08275	Sep	05	13:07:34	1522975.0469250	-0544	Sep 05 18:03:21	017746	LUN	Asc.	-0.1166	2.6257	1.6620	320	207	096	9.4S	163.1E	13	06	544	B.C.E.
08276	Mar	02	06:58:12	1523153.904134	-0543	Mar 02 11:53:42	017731	LUN	Dec.	-0.7282	1.5651	0.4794	335	160	---	9.0N	100.8W	14	12	543	B.C.E.
08277	Aug	26	05:34:52	1523329.7325474	-0543	Aug 26 10:30:23	017731	LUN	Asc.	0.5845	1.7652	0.8054	297	168	---	12.5S	83.5W	14	06	543	B.C.E.
08278	Jan	20	16:11:04	1523477.1743576	-0542	Jan 20 21:06:21	017717	LUN	Dec.	1.4602	0.2039	-0.8459	131	---	---	22.8N	121.5E	13	11	542	B.C.E.
08279	Feb	19	07:29:55	1523560.8124390	-0542	Feb 19 12:25:13	017717	LUN	Dec.	-1.4200	0.2867	-0.7811	159	---	---	12.4N	108.5W	13	12	542	B.C.E.
08280	Jul	17	08:59:36	1523654.8747167	-0542	Jul 17 13:54:52	017717	LUN	Asc.	-1.3440	0.4011	-0.6169	178	---	---	23.9S	134.5W	14	04	542	B.C.E.
08281	Aug	15	19:55:10	1523684.3299803	-0542	Aug 16 00:50:27	017717	LUN	Asc.	1.3427	0.3929	-0.6041	171	---	---	15.2S	61.4E	15	05	542	B.C.E.
08282	Jan	10	01:58:48	1523831.8249664	-0541	Jan 10 06:53:51	017702	LUN	Dec.	0.7010	1.5699	0.5735	296	155	---	23.7N	27.6E	13	10	541	B.C.E.
08283	Jul	05	13:50:11	1524009.0765209	-0541	Jul 05 18:45:14	017703	LUN	Asc.	-0.6269	1.7394	0.6765	340	182	---	24.2S	152.1E	14	04	541	B.C.E.
08284	Dec	29	16:49:49	1524186.2012626	-0541	Dec 29 21:44:53	017703	LUN	Dec.	0.0092	2.8257	1.8563	320	207	098	23.7N	109.1E	14	10	541	B.C.E.
08285	Jun	24	14:24:30	1524363.8003495	-0540	Jun 24 19:19:19	017688	LUN	Asc.	0.1312	2.6508	1.5844	372	233	102	23.6S	142.7E	13	04	540	B.C.E.
08286	Dec	19	06:18:08	1524540.1445341	-0540	Dec 19 13:10:55	017688	LUN	Dec.	-0.6675	1.6272	0.6394	295	159	---	22.9N	123.8W	14	10	540	B.C.E.
08287	Nov	13	18:00:29	1524717.2503409	-0539	Nov 13 22:55:04	017674	LUN	Asc.	0.8856	1.2457	0.2208	292	108	---	22.1S	88.2E	13	03	539	B.C.E.
08288	Nov	09	03:53:39	1524865.6622565	-0539	Nov 09 08:48:13	017674	LUN	Dec.	1.5044	0.1334	-0.9375	109	---	---	16.7N	61.7W	14	08	539	B.C.E.
08289	Dec	08	19:39:26	1524895.3190482	-0539	Dec 09 00:33:59	017674	LUN	Dec.	-1.4049	0.3009	-0.7399	156	---	---	21.1N	64.2E	15	09	539	B.C.E.
08290	May	04	21:14:32	1525042.																	

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar		
			Julian Date (UT)	Date (UT)								Pen.	Par.		Lat.	Lon.	Day	Month	Year
08347	Mar 03	516 B.C.E.	09:11:49	1533015.8832105	-0516 Mar 03 14:00:51	017341	LPU	Asc.	-0.8362	1.3659	0.2821	319	126	---	8.3N	134.2W	13	12	516 B.C.E.
08348	Aug 27	516 B.C.E.	13:17:32	1533193.0538435	-0516 Aug 27 18:06:32	017341	LPU	Dec.	0.7878	1.3975	0.4272	280	131	---	11.7S	160.8E	14	06	516 B.C.E.
08349	Feb 20	515 B.C.E.	11:15:48	1533369.9693027	-0515 Feb 20 16:04:36	017326	LTU	Asc.	-0.0908	2.7170	1.6663	359	227	102	12.9N	164.5W	13	12	515 B.C.E.
08350	Aug 17	515 B.C.E.	01:49:45	1533547.5762112	-0515 Aug 17 06:38:28	017326	LTU	Dec.	0.0721	2.7344	1.7172	346	223	101	15.8S	26.8W	15	05	515 B.C.E.
08351	Feb 09	514 B.C.E.	20:13:51	1533724.3429483	-0514 Feb 10 01:02:24	017312	LPU	Asc.	0.6320	1.6971	0.6995	306	170	---	17.1N	61.3E	13	11	514 B.C.E.
08352	Aug 06	514 B.C.E.	07:25:52	1533901.8096281	-0514 Aug 06 12:14:23	017312	LPU	Dec.	-0.6974	1.6112	0.5461	331	166	---	19.6S	110.6W	14	05	514 B.C.E.
08353	Jan 01	513 B.C.E.	00:56:03	1534049.5389252	-0513 Jan 01 05:44:21	017298	LNN	Asc.	-1.3514	0.3630	-0.6063	156	---	---	22.3N	12.2W	14	10	513 B.C.E.
08354	Jan 30	513 B.C.E.	10:51:12	1534078.9522174	-0513 Jan 30 15:39:30	017298	LNN	Asc.	1.2876	0.4777	-0.4869	178	---	---	20.6N	158.2W	13	11	513 B.C.E.
08355	Jun 25	513 B.C.E.	17:00:03	1534226.2083627	-0513 Jun 25 21:48:20	017298	LNN	Dec.	1.4084	0.3022	-0.7542	164	---	---	22.4S	104.1E	14	04	513 B.C.E.
08356	Jul 25	513 B.C.E.	07:55:52	1534255.8304587	-0513 Jul 25 12:44:10	017298	LNN	Dec.	-1.4404	0.3022	-0.8221	153	---	---	22.6S	118.3W	13	05	513 B.C.E.
08357	Dec 20	513 B.C.E.	15:32:50	1534404.1477988	-0513 Dec 20 20:21:07	017298	LNN	Asc.	-0.7195	1.5393	0.5364	296	152	---	22.9N	127.3E	15	10	513 B.C.E.
08358	Jun 14	512 B.C.E.	22:54:29	1534580.4544986	-0512 Jun 15 03:42:33	017283	LPU	Dec.	0.5942	1.7707	0.7650	319	181	---	22.5S	14.9E	13	03	512 B.C.E.
08359	Dec 10	512 B.C.E.	00:42:44	1534758.5296790	-0512 Dec 10 05:30:45	017283	LTU	Asc.	-0.0361	2.8229	1.7615	358	227	102	22.6N	11.5W	15	09	512 B.C.E.
08360	Jun 04	511 B.C.E.	11:56:19	1534934.9974402	-0511 Jun 04 16:44:09	017269	LTU	Dec.	-0.1908	2.4857	1.5299	321	206	092	21.8S	178.9E	13	03	511 B.C.E.
08361	Nov 29	511 B.C.E.	02:34:11	1535112.6070708	-0511 Nov 29 07:22:00	017269	LPU	Asc.	0.6656	1.6890	0.5853	343	173	---	21.4N	40.7W	14	09	511 B.C.E.
08362	Nov 25	510 B.C.E.	04:55:52	1535289.7054573	-0510 May 29 09:43:26	017255	LPU	Dec.	-0.9210	1.1377	0.1980	254	078	---	20.5S	76.4W	14	03	510 B.C.E.
08363	Nov 18	510 B.C.E.	01:37:11	1535466.5674933	-0510 Nov 18 06:24:46	017255	LNN	Asc.	1.3251	0.4750	-0.6207	205	---	---	19.2N	27.5W	13	09	510 B.C.E.
08364	Apr 14	509 B.C.E.	12:21:56	1535615.0152277	-0509 Apr 14 17:09:16	017241	LPU	Dec.	0.8901	1.2231	0.2263	279	105	---	6.5S	175.0E	14	01	509 B.C.E.
08365	Oct 07	509 B.C.E.	15:51:27	1535791.1607326	-0509 Oct 07 20:38:49	017241	LPU	Asc.	-0.8889	1.2313	0.2228	277	104	---	2.8N	120.4E	13	07	509 B.C.E.
08366	Oct 03	508 B.C.E.	19:48:31	1535969.3253554	-0508 Apr 04 00:35:36	017227	LTU	Dec.	0.1446	2.6194	1.5664	363	229	100	3.0S	64.1E	15	01	508 B.C.E.
08367	Sep 27	508 B.C.E.	05:57:46	1536145.7484443	-0508 Sep 27 10:44:53	017227	LTU	Asc.	-0.1712	2.5272	1.5602	319	205	092	0.9S	90.8W	13	07	508 B.C.E.
08368	Mar 23	507 B.C.E.	20:55:46	1536323.3720588	-0507 Mar 24 01:42:38	017212	LPU	Dec.	-0.6094	1.7798	0.7006	347	186	---	0.8N	48.0E	14	13	507 B.C.E.
08369	Sep 16	507 B.C.E.	22:06:16	1536500.4210206	-0507 Sep 17 02:53:08	017212	LPU	Asc.	0.5184	1.8910	0.9224	304	179	---	4.5S	27.4E	14	06	507 B.C.E.
08370	Feb 11	506 B.C.E.	08:08:23	1536647.8391566	-0506 Feb 11 12:55:01	017198	LNN	Dec.	1.5015	0.1218	-0.9154	101	---	---	17.3N	116.9W	13	11	506 B.C.E.
08371	Mar 12	506 B.C.E.	22:11:52	1536767.4249086	-0506 Mar 13 02:58:31	017198	LNN	Dec.	-1.3192	0.4655	-0.5901	198	---	---	4.5N	29.7E	13	12	506 B.C.E.
08372	Aug 07	506 B.C.E.	23:28:54	1536825.4783986	-0506 Aug 08 04:15:32	017198	LNN	Asc.	-1.4744	0.1681	-0.8623	119	---	---	19.8S	9.0E	15	05	506 B.C.E.
08373	Sep 06	506 B.C.E.	22:11:52	1536854.9828729	-0506 Sep 06 16:21:58	017198	LNN	Asc.	0.6656	0.5360	-0.4738	199	---	---	8.0S	174.5W	14	06	506 B.C.E.
08374	Jan 31	505 B.C.E.	18:56:14	1537002.2890477	-0505 Jan 31 23:02:38	017183	LPU	Dec.	0.7316	1.5087	0.5225	290	147	---	19.7N	80.6E	14	11	505 B.C.E.
08375	Jul 27	505 B.C.E.	03:16:56	1537179.6367536	-0505 Jul 27 08:43:18	017183	LPU	Asc.	-0.7767	1.4689	0.3976	325	146	---	21.6S	48.4W	14	05	505 B.C.E.
08376	Jan 20	504 B.C.E.	10:19:38	1537356.9302952	-0504 Jan 20 15:05:47	017169	LTU	Dec.	0.0326	2.7804	1.8157	319	207	098	21.4N	151.1W	13	11	504 B.C.E.
08377	Jul 16	504 B.C.E.	03:06:04	1537533.6500458	-0504 Jul 16 08:22:15	017169	LTU	Dec.	-0.0295	2.8379	1.7704	372	235	106	22.7S	53.9W	13	04	504 B.C.E.
08378	Jan 10	503 B.C.E.	01:46:20	1537711.5738406	-0503 Jan 10 06:32:14	017155	LPU	Dec.	-0.6575	1.6459	0.6573	297	162	---	22.3N	23.9W	14	10	503 B.C.E.
08379	Jul 05	503 B.C.E.	07:52:00	1537887.8277760	-0503 Jul 05 12:37:56	017155	LPU	Asc.	0.7258	1.5366	0.5159	311	157	---	22.9S	118.6W	13	04	503 B.C.E.
08380	Nov 30	503 B.C.E.	20:34:07	1538066.3570275	-0503 Dec 01 01:20:02	017155	LNN	Dec.	1.5157	0.1159	-0.9612	102	---	---	22.5N	49.5E	15	09	503 B.C.E.
08381	Dec 30	503 B.C.E.	12:38:34	1538066.0267854	-0503 Dec 31 07:24:29	017155	LNN	Dec.	-1.4057	0.3012	-0.7433	157	---	---	22.4N	171.8E	14	10	503 B.C.E.
08382	May 26	502 B.C.E.	12:07:02	1538213.0048817	-0502 May 26 16:52:42	017140	LNN	Asc.	-1.0977	0.8170	-0.1297	225	---	---	21.0S	176.0E	13	03	502 B.C.E.
08383	Jun 24	502 B.C.E.	19:27:07	1538242.3105021	-0502 Jun 25 00:12:47	017140	LNN	Asc.	1.4276	0.2214	-0.7445	127	---	---	22.3S	67.0E	13	04	502 B.C.E.
08384	Nov 19	502 B.C.E.	20:53:50	1538390.3707165	-0502 Nov 20 01:39:30	017140	LPU	Dec.	0.8791	1.2990	0.1921	316	106	---	19.3N	43.8E	14	09	502 B.C.E.
08385	May 15	501 B.C.E.	05:23:12	1538567.7244474	-0501 May 15 10:08:31	017119	LPU	Asc.	-0.3627	2.1642	1.2205	310	192	066	17.7S	82.8W	14	02	501 B.C.E.
08386	Nov 07	501 B.C.E.	20:37:57	1538744.3596928	-0501 Nov 08 01:23:09	017110	LTU	Dec.	0.1913	2.5491	1.4657	366	227	094	15.4N	47.5E	13	08	501 B.C.E.
08387	May 04	500 B.C.E.	20:42:42	1538922.3629879	-0500 May 05 01:27:41	017101	LPU	Asc.	0.3970	2.1205	1.1386	324	200	055	13.8S	47.9E	15	02	500 B.C.E.
08388	Oct 28	500 B.C.E.	02:34:41	1539098.7047134	-0500 Oct 28 07:19:35	017093	LPU	Dec.	-0.5069	1.9410	0.9150	325	191	---	10.9N	41.5W	13	08	500 B.C.E.
08389	Apr 29	499 B.C.E.	05:53:48	1539276.6456903	-0499 Apr 29 10:38:32	017084	LNN	Asc.	1.2117	0.6538	-0.3840	228	99	---	9.5S	88.9W	14	01	499 B.C.E.
08390	Sep 18	499 B.C.E.	05:29:40	1539423.7289298	-0499 Sep 18 10:14:16	017077	LNN	Dec.	1.4812	0.1203	-0.8403	092	---	---	3.0S	83.7W	13	06	499 B.C.E.
08391	Oct 17	499 B.C.E.	15:23:55	1539453.1416093	-0499 Oct 17 20:08:30	017075	LNN	Dec.	-1.1555	0.7264	-0.2507	216	---	---	6.3N	126.7E	14	07	499 B.C.E.
08392	Mar 14	498 B.C.E.	16:15:39	1539601.1775293	-0498 Mar 14 21:00:07	017068	LPU	Asc.	-0.8906	1.2638	0.1845	310	103	---	4.1N	118.9E	14	12	498 B.C.E.
08393	Sep 07	498 B.C.E.	21:26:11	1539778.3931882	-0498 Sep 08 02:10:30	017059	LPU	Dec.	0.8256	1.3308	0.3553	276	121	---	7.7S	38.0E	14	06	498 B.C.E.
08394	Mar 02	497 B.C.E.	18:48:46	1539955.2838612	-0497 Mar 02 23:32:58	017050	LTU	Asc.	-0.1340	2.6345	1.5903	356	226	099	9.0N	81.7E	13	12	497 B.C.E.
08395	Aug 27	497 B.C.E.	09:29:12	1540132.8952724	-0497 Aug 27 14:13:11	017042	LPU	Dec.	0.1183	2.6530	1.6293	347	222	099	12.3S	142.0W	14	06	497 B.C.E.
08396	Feb 20	496 B.C.E.	04:20:25	1540309.6808403	-0496 Feb 20 09:04:19	017033	LPU	Asc.	0.5980	1.7565	0.7650	308	174	---	13.5N	60.5W	13	12	496 B.C.E.
08397	Aug 16	496 B.C.E.	14:31:10	1540487.1049802	-0496 Aug 16 19:14:53	017024	LPU	Dec.	-0.6405	1.7183	0.6478	339	178	---	16.5S	143.0E	14	05	496 B.C.E.
08398	Jan 11																		

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar			
											Pen.	Par.	Lat.	Lon.	Day	Month	Year	
08454	May 06	473 B.C.E.	02:46:33	1548785.6156603	-0473	May 06	07:23:38	1.0416	0.9470	-0.0534	255	---	13.8S	42.8W	15	02	473 B.C.E.	
08455	Jun 04	473 B.C.E.	11:50:55	1548814.9936888	-0473	Jun 04	16:28:00	-1.5485	0.0028	-0.9696	014	---	23.3S	179.9E	14	03	473 B.C.E.	
08456	Oct 29	473 B.C.E.	09:02:38	1548961.8768330	-0473	Oct 29	13:39:38	-0.9032	1.2043	0.1973	273	098	11.2N	138.3W	13	08	473 B.C.E.	
08457	Apr 25	472 B.C.E.	09:26:05	1549139.8931148	-0472	Apr 25	14:02:53	0.2977	2.3389	1.2851	360	222	10.9S	142.2W	14	02	472 B.C.E.	
08458	Oct 18	472 B.C.E.	23:20:58	1549316.4728982	-0472	Oct 19	03:57:41	-0.2007	2.4746	1.5046	317	203	7.9N	7.1E	13	08	472 B.C.E.	
08459	Apr 14	471 B.C.E.	10:22:37	1549493.9323719	-0471	Apr 14	14:59:10	-0.4634	2.0445	0.9715	359	209	7.5S	155.8W	13	01	471 B.C.E.	
08460	Oct 08	471 B.C.E.	15:08:55	1549671.1311919	-0471	Oct 08	19:45:20	0.4781	1.9694	0.9921	308	185	4.3N	130.3E	13	07	471 B.C.E.	
08461	Apr 03	470 B.C.E.	12:27:01	1549848.0187603	-0470	Apr 03	17:03:17	-1.1911	0.6946	-0.3491	235	---	3.9S	173.9E	13	01	470 B.C.E.	
08462	Sep 28	470 B.C.E.	03:47:06	1550025.6577133	-0470	Sep 28	08:23:15	0.2202	0.6304	-0.3920	215	---	0.6N	58.9W	14	07	470 B.C.E.	
08463	Feb 22	469 B.C.E.	11:27:43	1550172.9775846	-0469	Feb 22	16:03:46	0.16562	1.3997	0.4243	281	132	13.1N	167.2W	13	12	469 B.C.E.	
08464	Aug 17	469 B.C.E.	17:11:04	1550350.2160209	-0469	Aug 17	21:46:57	-0.9035	1.2408	0.1604	308	097	16.2S	103.2E	14	05	469 B.C.E.	
08465	Feb 11	468 B.C.E.	03:24:15	1550527.6418375	-0468	Feb 11	08:00:00	0.0790	2.6925	1.7331	318	206	15.9N	46.4W	14	11	468 B.C.E.	
08466	Aug 06	468 B.C.E.	17:19:36	1550704.2219419	-0468	Aug 06	21:55:13	-0.1683	2.5843	1.5148	369	231	18.7S	100.9E	14	05	468 B.C.E.	
08467	Jan 31	467 B.C.E.	18:50:33	1550882.2851064	-0467	Jan 31	23:25:59	-0.6268	1.7021	0.7138	302	168	18.2N	81.6E	15	11	467 B.C.E.	
08468	Jul 26	467 B.C.E.	22:13:15	1551058.4825870	-0467	Jul 27	02:48:36	0.5839	1.7958	0.7775	323	183	20.5S	27.1E	13	05	467 B.C.E.	
08469	Dec 22	467 B.C.E.	13:10:36	1551207.0490262	-0467	Dec 22	17:45:49	0.5293	0.0926	-0.9879	092	---	25.1N	163.1E	14	10	467 B.C.E.	
08470	Jun 21	466 B.C.E.	05:15:02	1551412.9348926	-0466	Jun 21	09:50:14	-1.3894	0.3319	-0.7141	165	---	20.0N	75.3W	15	11	466 B.C.E.	
08471	Jun 17	466 B.C.E.	03:03:14	1551383.6272487	-0466	Jun 17	07:38:19	-1.2389	0.5569	-0.3876	190	---	24.5S	47.3W	14	03	466 B.C.E.	
08472	Jul 16	466 B.C.E.	10:26:15	1551412.9348926	-0466	Jul 16	15:01:18	0.2863	0.4797	-0.4844	181	---	21.4S	156.7W	13	04	466 B.C.E.	
08473	Dec 11	466 B.C.E.	13:06:47	1551561.0463816	-0466	Dec 11	17:41:43	0.8880	1.2825	0.1758	315	101	23.6N	162.5E	13	09	466 B.C.E.	
08474	Jun 05	465 B.C.E.	20:20:09	1552447.3473234	-0465	Jun 05	00:54:56	-0.5126	1.8903	0.9441	302	177	22.5S	53.0E	15	03	465 B.C.E.	
08475	Nov 29	465 B.C.E.	13:13:39	1551915.0511403	-0465	Nov 29	17:48:22	0.1962	2.5381	1.4585	364	226	21.2N	159.7E	13	09	465 B.C.E.	
08476	May 26	464 B.C.E.	11:06:16	1552026.9626820	-0464	May 26	15:40:45	0.2460	2.4003	1.4129	333	213	19.8S	163.6W	14	03	464 B.C.E.	
08477	Nov 18	464 B.C.E.	19:53:14	1552269.3286398	-0464	Nov 19	00:27:40	-0.4994	1.9529	0.9308	323	191	18.0N	59.1E	13	09	464 B.C.E.	
08478	May 15	463 B.C.E.	19:25:34	1552447.3473234	-0463	May 15	23:59:48	0.1601	0.9339	-0.1076	267	---	16.5S	66.9E	15	02	463 B.C.E.	
08479	Oct 09	463 B.C.E.	22:41:46	1552594.4456719	-0463	Oct 10	03:15:55	0.5169	0.0572	-0.9082	064	---	5.9N	16.8E	14	07	463 B.C.E.	
08480	Nov 08	463 B.C.E.	09:04:57	1552623.8784392	-0463	Nov 08	13:39:05	-1.1409	0.7532	-0.2240	218	---	14.2N	139.0W	13	08	463 B.C.E.	
08481	Apr 05	462 B.C.E.	06:00:31	1552771.7503541	-0462	Apr 05	10:34:31	0.8791	1.0237	-0.0468	285	---	4.5S	89.4E	13	01	462 B.C.E.	
08482	Sep 29	462 B.C.E.	14:08:36	1552949.0893057	-0462	Sep 29	18:42:29	-0.1099	1.2364	0.2505	271	104	1.0N	145.9W	14	07	462 B.C.E.	
08483	Mar 24	461 B.C.E.	09:34:10	1553125.8987308	-0461	Mar 24	14:07:58	-0.2405	2.4325	1.4012	350	220	0.5N	141.5W	13	01	461 B.C.E.	
08484	Sep 18	461 B.C.E.	10:11:56	1553303.5422556	-0461	Sep 18	05:44:29	0.1896	2.5289	1.4919	349	221	4.0S	18.7W	14	07	461 B.C.E.	
08485	Mar 13	460 B.C.E.	20:13:39	1553480.3428112	-0460	Mar 14	00:47:08	0.5105	1.9111	0.9314	312	185	5.4N	59.8E	13	13	460 B.C.E.	
08486	Sep 07	460 B.C.E.	05:06:10	1553567.7126175	-0460	Sep 07	09:39:29	-0.5476	1.8943	0.8130	350	195	8.9S	176.6W	14	06	460 B.C.E.	
08487	Feb 02	459 B.C.E.	03:00:24	1553805.6252752	-0459	Feb 02	07:33:35	-1.3979	0.2752	-0.6894	137	---	17.0N	40.9W	14	11	459 B.C.E.	
08488	Mar 03	459 B.C.E.	11:52:58	1553834.9951120	-0459	Mar 03	16:26:09	0.1940	0.6439	-0.3100	202	---	10.1N	174.0W	13	12	459 B.C.E.	
08489	Aug 27	459 B.C.E.	04:54:36	1554101.7045818	-0459	Aug 27	09:27:40	-1.2608	0.5860	-0.4959	226	---	13.6S	73.0W	13	06	459 B.C.E.	
08490	Jan 22	458 B.C.E.	17:22:33	1554160.2239960	-0458	Jan 22	21:55:29	0.1627	1.4756	0.4705	294	145	20.2N	102.2E	15	11	458 B.C.E.	
08491	Jul 17	458 B.C.E.	20:25:48	1554336.3512500	-0458	Jul 18	00:58:38	0.8050	1.3810	0.3811	292	135	21.7S	53.7E	13	04	458 B.C.E.	
08492	Jan 12	457 B.C.E.	01:38:30	1554514.5684023	-0457	Jan 12	06:11:08	-0.0598	2.7812	1.7161	362	228	10.2N	116.3W	15	10	457 B.C.E.	
08493	Jul 05	457 B.C.E.	10:22:04	1554690.9319891	-0457	Jul 06	14:54:38	0.0278	2.7833	1.8305	321	208	23.5S	155.9W	13	04	457 B.C.E.	
08494	Dec 31	457 B.C.E.	02:47:24	1554868.6162499	-0457	Dec 31	07:19:49	0.6452	1.7260	0.6232	346	178	24.2N	40.1W	14	10	457 B.C.E.	
08495	Jun 26	456 B.C.E.	03:28:38	1555045.6448891	-0456	Jun 26	08:00:54	-0.7038	1.5381	0.5947	283	146	24.4S	53.2W	14	04	456 B.C.E.	
08496	Dec 20	456 B.C.E.	02:14:03	1555222.5930850	-0456	Dec 20	06:46:11	0.3055	0.5074	-0.5812	210	---	24.8N	33.4W	13	10	456 B.C.E.	
08497	May 17	455 B.C.E.	09:50:22	1555370.9099736	-0455	May 17	14:22:22	0.1226	0.7999	-0.2032	239	---	16.9S	149.1W	14	02	455 B.C.E.	
08498	Jan 15	455 B.C.E.	19:06:01	1555400.2958393	-0455	Jan 15	23:38:00	-1.4800	0.1305	-0.8457	100	---	24.6S	71.6E	15	03	455 B.C.E.	
08499	Nov 09	455 B.C.E.	17:46:34	1555547.2460767	-0455	Nov 09	22:18:28	-0.9046	1.2010	0.1955	272	097	14.9N	90.7E	13	08	455 B.C.E.	
08500	May 06	454 B.C.E.	16:04:24	1555725.1697205	-0454	May 06	20:36:06	0.3815	2.1857	1.1310	357	216	14.4S	117.5E	14	02	454 B.C.E.	
08501	Oct 30	454 B.C.E.	08:12:07	1555901.8417470	-0454	Oct 30	12:43:44	-0.2079	2.4619	1.4909	317	203	12.0N	126.0E	13	08	454 B.C.E.	
08502	Apr 24	453 B.C.E.	16:55:31	1556079.2052159	-0453	Apr 24	21:27:00	-0.3812	2.1941	1.1237	363	218	11.4S	105.1E	14	02	453 B.C.E.	
08503	Oct 18	453 B.C.E.	23:50:31	1556256.4934190	-0453	Oct 19	04:21:51	0.4670	1.9157	1.0104	310	187	8.6N	0.6W	14	08	453 B.C.E.	
08504	Apr 13	452 B.C.E.	19:26:21	1556433.3099656	-0452	Apr 13	23:57:33	-1.1185	0.8250	-0.2131	251	---	8.0S	68.0E	13	01	452 B.C.E.	
08505	Oct 08	452 B.C.E.	12:02:35	1556611.0017982	-0452	Oct 08	16:33:39	0.2049	0.6615	-0.3669	221	---	5.0N	176.5E	14	07	452 B.C.E.	
08506	Mar 04	451 B.C.E.	19:32:57	1556788.3145508	-0451	Mar 05	00:03:55	0.8259	1.3275	0.3573	275	120	9.1N	71.0E	14	12	451 B.C.E.	
08507	Aug 29	451 B.C.E.	10:20:11	1556935.5140146	-0451	Aug 29	04:51:01	-0.9564	1.1461	0.0612	299	061	12.6S	4.4W	14	06	451 B.C.E.	
08508	Feb 22	450 B.C.E.	11:44:46	1557112.9894235	-0450	Feb 22	15:15:28	0.1121	2.6305	1.6737	318	205	096	12.3N	171.8W	14	12	450 B.C.E.
08509	Aug 18	450 B.C.E.	00:24:24	1557289.5169389	-0450	Aug 18	04:54:58	-0.2277	2.4760	1.4051	367	227	091	15.7S	5.3W	13	05	450 B.C.E.
08510	Feb 12	449 B.C.E.	03:10:27	1557467.6322539	-0449	Feb 12	07:40:51											

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
08561	Dec 21 429 B.C.E.	05:51:57	1565085.7444108	-0429	Dec 21 10:16:45	015886	LTU	Dec. 0.2020	2.5241	1.4514	361	224	092	23.9N	87.4W	13 10 429 B.C.E.
08562	Jun 17 428 B.C.E.	01:21:39	1565263.5567027	-0428	Jun 17 05:46:15	015878	LPU	Asc. 0.0914	2.6879	1.6927	340	220	101	23.2S	21.9W	15 03 428 B.C.E.
08563	Dec 10 428 B.C.E.	13:20:00	1565440.0555607	-0428	Dec 10 17:44:32	015870	LPU	Dec. -0.4960	1.9560	0.9399	321	190	---	22.3N	159.2E	12 09 428 B.C.E.
08564	Jun 06 427 B.C.E.	08:42:17	1565617.8626915	-0427	Jun 06 13:06:37	015861	LPU	Asc. 0.8981	1.2338	0.1867	299	102	---	21.2S	132.4W	14 03 427 B.C.E.
08565	Oct 31 427 B.C.E.	16:19:49	1565765.1804280	-0427	Oct 31 20:44:04	015855	LNN	Dec. 1.5329	0.0299	-0.9396	046	---	---	14.3N	111.5E	14 08 427 B.C.E.
08566	Nov 30 427 B.C.E.	02:59:02	1565794.6243315	-0427	Nov 30 07:23:17	015855	LNN	Dec. -1.1367	0.7602	-0.2156	219	---	---	19.9N	46.5W	13 09 427 B.C.E.
08567	Apr 26 426 B.C.E.	19:20:25	1565942.3058466	-0426	Apr 26 23:44:34	015848	LNN	Asc. -1.1675	0.7474	-0.3153	249	---	---	12.6S	68.7E	14 02 426 B.C.E.
08568	Oct 21 426 B.C.E.	07:16:49	1566119.8033450	-0426	Oct 21 11:40:49	015840	LPU	Dec. 0.9107	1.1847	0.1892	268	093	---	9.8N	112.3W	14 08 426 B.C.E.
08569	Apr 14 425 B.C.E.	23:56:15	1566296.4973930	-0425	Apr 15 04:20:09	015832	LPU	Asc. -0.3698	2.1892	1.1699	340	210	062	8.0S	0.8E	13 01 425 B.C.E.
08570	Oct 09 425 B.C.E.	17:21:08	1566474.2230142	-0425	Oct 09 21:44:50	015824	LPU	Dec. 0.2336	2.4543	1.4051	351	220	088	4.9N	97.3E	15 07 425 B.C.E.
08571	Apr 04 424 B.C.E.	11:38:48	1566650.9852813	-0424	Apr 04 16:02:26	015816	LPU	Asc. 0.3968	2.1143	1.1454	316	195	056	3.2S	173.6W	13 01 424 B.C.E.
08572	Sep 28 424 B.C.E.	20:14:52	1566828.3436580	-0424	Sep 29 00:38:20	015809	LNN	Dec. -0.4836	2.0167	0.9255	358	204	---	0.2S	54.8E	14 07 424 B.C.E.
08573	Feb 23 423 B.C.E.	19:44:56	1566976.3228734	-0423	Feb 24 00:08:19	015803	LNN	Asc. -1.4599	0.1596	-0.8014	106	---	---	10.2N	67.7E	15 12 423 B.C.E.
08574	Mar 25 423 B.C.E.	03:54:42	1567005.6629879	-0423	Mar 25 08:18:03	015801	LNN	Asc. 1.0995	0.8144	-0.1335	223	---	---	1.6N	56.3W	14 01 423 B.C.E.
08575	Sep 17 422 B.C.E.	09:43:26	1567182.3218317	-0423	Mar 25 08:18:03	015793	LNN	Dec. -1.1675	0.7474	-0.3153	249	---	---	5.4S	63.6E	14 07 423 B.C.E.
08576	Feb 13 422 B.C.E.	09:55:39	1567306.9136472	-0422	Feb 13 14:18:45	015787	LPU	Dec. -0.8081	1.3780	0.3728	289	132	---	14.4N	144.5W	14 12 422 B.C.E.
08577	Aug 08 422 B.C.E.	11:24:42	1567506.9754807	-0422	Aug 08 15:47:41	015779	LPU	Dec. 0.9182	1.1724	0.1741	274	093	---	17.3S	170.6W	13 05 422 B.C.E.
08578	Feb 02 421 B.C.E.	17:38:52	1567685.2353201	-0421	Feb 02 22:01:40	015771	LPU	Dec. -0.1017	2.7043	1.6393	363	229	101	18.2N	99.7E	15 11 421 B.C.E.
08579	Jul 28 421 B.C.E.	01:44:02	1567861.5722475	-0421	Jul 28 06:06:47	015764	LPU	Dec. 0.1547	2.5509	1.5972	319	205	094	20.5S	25.4W	13 05 421 B.C.E.
08580	Jan 21 420 B.C.E.	18:30:39	1568039.9127835	-0420	Jan 21 22:53:15	015756	LPU	Dec. 0.6121	1.7847	0.6861	349	185	---	21.5N	86.3E	14 11 420 B.C.E.
08581	Jul 17 420 B.C.E.	18:42:53	1568216.2797751	-0420	Jul 17 23:05:20	015748	LPU	Dec. -0.5708	1.7850	0.8359	297	169	---	23.0S	79.5E	14 04 420 B.C.E.
08582	Jan 10 419 B.C.E.	18:26:52	1568393.4266521	-0419	Jan 10 22:49:12	015740	LNN	Asc. 1.2803	0.5492	-0.5309	216	---	---	23.9N	86.3E	14 10 419 B.C.E.
08583	Jul 07 419 B.C.E.	23:48:42	1568541.2915558	-0419	Jul 08 04:10:56	015733	LNN	Dec. 1.2880	0.4999	-0.5103	196	---	---	21.1S	1.3E	15 03 419 B.C.E.
08584	Jul 07 419 B.C.E.	09:39:53	1568570.9026938	-0419	Jul 07 14:02:05	015732	LNN	Dec. -1.3476	0.3780	-0.6075	167	---	---	24.8S	145.3W	14 04 419 B.C.E.
08585	Dec 01 419 B.C.E.	11:23:47	1568717.9748448	-0419	Dec 01 15:45:53	015726	LPU	Asc. -0.9017	1.2041	0.2029	271	098	---	20.5N	172.4W	13 09 419 B.C.E.
08586	May 28 418 B.C.E.	05:09:17	1568895.7147850	-0418	May 28 09:31:15	015719	LPU	Dec. 0.5563	1.8665	0.8087	346	194	---	19.9S	79.2W	14 03 418 B.C.E.
08587	Nov 21 418 B.C.E.	02:04:15	1569022.5862827	-0418	Nov 21 06:26:06	015711	LPU	Dec. -0.2145	2.4502	1.4783	317	203	087	18.8N	33.6W	14 09 418 B.C.E.
08588	May 16 417 B.C.E.	05:52:53	1569249.7450522	-0417	May 16 10:14:36	015703	LPU	Dec. -0.2088	2.5081	1.4422	370	230	094	17.9S	90.2W	14 02 417 B.C.E.
08589	Nov 09 417 B.C.E.	17:25:58	1569427.2263713	-0417	Nov 09 21:47:32	015695	LPU	Asc. 0.4567	2.0411	1.0259	312	189	022	16.4N	95.3E	14 08 417 B.C.E.
08590	May 05 416 B.C.E.	09:13:37	1569603.8844585	-0416	May 05 13:35:05	015687	LPU	Dec. -0.9605	1.1099	0.0818	281	067	---	15.4S	140.3W	13 02 416 B.C.E.
08591	Oct 30 416 B.C.E.	04:50:50	1569781.7019720	-0416	Oct 30 09:12:12	015681	LNN	Asc. 1.1909	0.6925	-0.3465	227	---	---	13.4N	76.3W	14 08 416 B.C.E.
08592	Mar 26 415 B.C.E.	11:20:41	1569928.9727008	-0415	Mar 26 15:41:55	015674	LPU	Dec. 0.9219	1.1464	0.1862	259	082	---	0.8N	167.8E	13 01 415 B.C.E.
08593	Sep 19 415 B.C.E.	15:05:50	1570106.1290554	-0415	Sep 19 19:26:56	015666	LNN	Dec. -0.9285	0.9996	-0.0937	285	---	---	4.4S	133.0E	13 07 415 B.C.E.
08594	Mar 16 414 B.C.E.	04:00:02	1570283.6666905	-0414	Mar 16 08:21:00	015658	LPU	Dec. 0.1997	2.4674	1.5154	316	202	090	4.3N	57.0W	14 13 414 B.C.E.
08595	Sep 08 414 B.C.E.	15:07:13	1570460.1300148	-0414	Sep 08 19:28:06	015651	LPU	Dec. -0.3211	2.3058	1.2325	362	220	073	8.2S	133.1E	13 06 414 B.C.E.
08596	Mar 04 413 B.C.E.	19:21:16	1570638.3064350	-0413	Mar 04 23:41:58	015643	LPU	Dec. -0.5313	1.8768	0.8894	312	184	---	7.7N	73.2E	15 12 413 B.C.E.
08597	Aug 27 413 B.C.E.	20:53:01	1570814.3701499	-0413	Aug 28 01:13:40	015637	LPU	Dec. 0.4192	2.0975	1.0804	332	202	043	11.6S	46.9E	13 06 413 B.C.E.
08598	Jan 23 412 B.C.E.	13:22:11	1570963.0570743	-0412	Jan 23 17:42:42	015630	LNN	Dec. 1.5790	0.0014	-1.0792	011	---	---	21.9N	164.0E	14 11 412 B.C.E.
08599	Feb 22 412 B.C.E.	05:01:23	1570992.7092921	-0412	Feb 22 09:21:51	015629	LNN	Dec. -1.3163	0.4662	-0.5800	195	---	---	10.9N	71.5W	15 12 412 B.C.E.
08600	Jul 19 412 B.C.E.	01:53:01	1571139.5784885	-0412	Jul 19 06:13:23	015622	LNN	Asc. -1.4319	0.2034	-0.7426	118	---	---	23.7S	27.6W	14 04 412 B.C.E.
08601	Aug 17 412 B.C.E.	09:48:12	1571168.9084755	-0412	Aug 17 14:08:33	015621	LNN	Asc. 1.1126	0.7990	-0.1661	225	---	---	14.5S	146.9W	13 05 412 B.C.E.
08602	Jan 12 411 B.C.E.	13:04:11	1571317.0445737	-0411	Jan 12 17:24:26	015615	LPU	Dec. 0.9192	1.2220	0.1216	308	085	---	23.3N	167.3E	13 10 411 B.C.E.
08603	Jul 08 411 B.C.E.	18:50:03	1571494.2847588	-0411	Jul 08 23:10:10	015607	LPU	Dec. -0.7305	1.4948	0.5400	284	142	---	24.1S	77.4E	15 04 411 B.C.E.
08604	Jan 01 410 B.C.E.	14:06:56	1571671.0881537	-0410	Jan 01 18:26:58	015599	LPU	Dec. 0.2092	2.5085	1.4403	359	224	091	23.8N	150.2E	13 10 410 B.C.E.
08605	Jun 28 410 B.C.E.	08:28:58	1571848.8583496	-0410	Jun 28 12:48:47	015592	LPU	Dec. 0.0153	2.8300	1.8301	342	223	103	23.7S	128.1W	14 04 410 B.C.E.
08606	Dec 21 410 B.C.E.	22:01:52	1572025.4179587	-0410	Dec 22 02:21:37	015584	LPU	Dec. -0.4921	1.9613	0.9491	320	190	---	23.2N	30.0E	13 10 410 B.C.E.
08607	Jun 16 409 B.C.E.	15:19:27	1572203.1385116	-0409	Jun 16 19:39:04	015577	LPU	Asc. 0.8168	1.3848	0.3342	313	134	---	22.6S	128.7E	14 03 409 B.C.E.
08608	Nov 11 409 B.C.E.	01:14:39	1572350.5185362	-0409	Nov 11 05:34:08	015570	LNN	Dec. 1.5368	0.0236	-0.9474	041	---	---	17.9N	22.0W	14 08 409 B.C.E.
08609	Dec 10 409 B.C.E.	11:55:35	1572379.9969284	-0409	Dec 10 16:15:04	015569	LNN	Dec. -1.1340	0.7643	-0.2100	219	---	---	21.7N	179.6W	13 09 409 B.C.E.
08610	May 07 408 B.C.E.	01:54:25	1572527.5794608	-0408	May 07 06:13:48	015562	LNN	Dec. -1.2466	0.6007	-0.4587	226	---	---	16.2S	30.5W	14 02 408 B.C.E.
08611	Oct 31 408 B.C.E.	15:58:51	1572705.1686669	-0408	Oct 31 20:18:04	015554	LPU	Dec. 0.9192	1.1714	0.1716	268	091	---	13.8N	116.9E	15 08 408 B.C.E.
08612	Apr 26 407 B.C.E.	07:00:15	1572881.7918387	-0407	Apr 26 11:19:24	015548	LPU	Dec. -0.4415	2.0549	1.0411	334	202	032	12.0S	106.1W	13 02 407 B.C.E.
08613	Oct 21 407 B.C.E.	01:35:31	1573059.5663278	-0407	Oct 21 05:54:28	015540	LPU	Dec. 0.2467	2.4329	1.3783	352	219	086	9.2N	26.8W	14 08 407 B.C.E.
08614	Apr 15 406 B.C.E.	19:12:28	1573236.3003198	-0406	Apr 15 23:31:21	015532	LPU	Dec. 0.3313	2.2322	1.2679	318	199	072	7.4S	71.9E	14 01 406 B.C.E.
08615	Oct 10 406 B.C.E.	04:01:49	1573413.6679262													

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar	
										Pen.	Par.	Pen.	Tot.	Lat.	Lon.	Day	Month
08668	Jun 29 383 B.C.E.	13:43:41	1581712.0720074	-0383	Jun 29 17:56:38	015177	LNN	Dec.	1.4503	0.2067	-0.8126	131	---	---	22.4S	153.5E	14 04 383 B.C.E.
08669	Jul 29 383 B.C.E.	00:26:12	1581741.5181959	-0383	Jul 29 04:39:08	015176	LNN	Dec.	-1.2281	0.6030	-0.3938	208	---	---	21.7S	5.8W	15 05 383 B.C.E.
08670	Dec 23 383 B.C.E.	05:00:38	1581888.7087697	-0383	Dec 23 09:13:28	015170	LPU	Asc.	-0.9014	1.2015	0.2067	269	097	---	22.8N	74.3W	13 10 383 B.C.E.
08671	Jun 18 382 B.C.E.	18:08:24	1582066.2558353	-0382	Jun 18 22:21:06	015162	LPU	Asc.	0.7318	1.5468	0.4843	329	159	---	22.8S	86.7E	15 03 382 B.C.E.
08672	Dec 12 382 B.C.E.	20:01:23	1582243.3342996	-0382	Dec 13 00:13:58	015155	LPU	Asc.	-0.2168	2.4457	1.4746	316	202	087	22.8N	59.1E	14 09 382 B.C.E.
08673	Jun 06 381 B.C.E.	18:45:01	1582420.2812609	-0381	Jun 06 22:57:29	015148	LPU	Asc.	-0.0309	2.8331	1.7702	372	235	106	22.3S	76.9E	14 03 381 B.C.E.
08674	Dec 01 381 B.C.E.	11:10:36	1582597.9656950	-0381	Dec 01 15:22:55	015140	LPU	Asc.	0.4566	2.0168	1.0236	314	190	023	21.9N	169.5W	14 09 381 B.C.E.
08675	May 26 380 B.C.E.	22:56:11	1582774.4556878	-0380	May 27 03:08:26	015134	LPU	Asc.	-0.7942	1.4108	0.3911	303	140	---	21.0S	13.7E	13 03 380 B.C.E.
08676	Nov 20 380 B.C.E.	21:52:12	1582952.4112519	-0380	Nov 21 02:04:19	015127	LNN	Asc.	1.1905	0.6976	-0.3498	230	---	---	20.2N	29.0E	15 09 380 B.C.E.
08677	Apr 17 379 B.C.E.	02:43:35	1583099.6135953	-0379	Apr 17 06:55:35	015120	LNN	Dec.	1.0402	0.9251	-0.0267	237	---	---	7.5S	40.6W	13 01 379 B.C.E.
08678	May 16 379 B.C.E.	10:19:02	1583128.9298829	-0379	May 16 14:31:02	015119	LNN	Dec.	-1.4958	0.0965	-0.8700	085	---	---	19.1S	157.3W	13 02 379 B.C.E.
08679	Oct 11 379 B.C.E.	06:27:05	1583276.7688026	-0379	Oct 11 10:38:59	015113	LNN	Asc.	-1.0909	0.9070	-0.1933	275	---	---	4.3N	98.7W	14 07 379 B.C.E.
08680	Apr 06 378 B.C.E.	19:43:54	1583454.3221493	-0378	Apr 06 23:55:38	015105	LPU	Dec.	0.3131	2.2576	1.3089	312	196	076	4.2S	65.0E	14 01 378 B.C.E.
08681	Sep 30 378 B.C.E.	06:30:24	1583630.7711165	-0378	Sep 30 10:42:05	015099	LPU	Asc.	-0.3840	2.1913	1.1161	357	213	053	0.4N	99.2W	13 07 378 B.C.E.
08682	Mar 26 377 B.C.E.	10:54:13	1583806.9243180	-0377	Mar 26 15:05:43	015092	LPU	Asc.	-0.3840	2.1913	1.1161	357	213	053	0.4N	99.2W	13 07 378 B.C.E.
08683	Sep 18 377 B.C.E.	12:49:33	1583985.0344051	-0377	Sep 18 17:00:58	015084	LPU	Asc.	0.3461	2.2315	1.2146	334	208	067	3.4S	166.4E	12 07 377 B.C.E.
08684	Mar 15 376 B.C.E.	19:59:00	1584163.3226406	-0376	Mar 16 00:10:17	015077	LNN	Dec.	-1.2287	0.6266	-0.4193	224	---	---	2.9N	62.6E	15 13 376 B.C.E.
08685	Aug 09 376 B.C.E.	17:33:57	1584310.2319040	-0376	Aug 09 21:45:07	015070	LNN	Asc.	-1.5390	0.0087	-0.9409	025	---	---	19.1S	97.9E	14 05 376 B.C.E.
08686	Sep 08 376 B.C.E.	02:04:33	1584339.5864897	-0376	Sep 08 06:15:42	015069	LNN	Asc.	1.0289	0.9538	-0.0136	241	---	---	7.0S	31.9W	13 06 376 B.C.E.
08687	Feb 03 375 B.C.E.	04:30:29	1584487.6878317	-0375	Feb 03 08:41:32	015063	LPU	Dec.	0.9659	1.1325	0.0397	299	049	---	18.8N	62.8W	14 11 375 B.C.E.
08688	Jul 30 375 B.C.E.	10:06:34	1584664.9212243	-0375	Jul 30 14:17:30	015057	LPU	Dec.	-0.8591	1.2633	0.2998	270	108	---	21.0S	150.7W	14 05 375 B.C.E.
08689	Jan 23 374 B.C.E.	06:22:54	1584841.7659085	-0374	Jan 23 10:33:46	015049	LPU	Dec.	0.2376	2.4511	1.3937	355	221	088	20.9N	91.7W	13 11 374 B.C.E.
08690	Jul 19 374 B.C.E.	22:51:18	1585019.4252887	-0374	Jul 20 03:01:57	015042	LPU	Asc.	-0.1278	2.6292	1.6182	345	222	099	22.2S	17.5E	15 04 374 B.C.E.
08691	Jan 12 373 B.C.E.	15:16:29	1585196.1364414	-0373	Jan 12 19:27:04	015034	LPU	Dec.	-0.4747	1.9885	0.9856	319	192	---	22.1N	133.8E	14 10 373 B.C.E.
08692	Jul 08 373 B.C.E.	04:36:19	1585373.6918828	-0373	Jul 08 08:46:45	015027	LPU	Asc.	0.6574	1.6813	0.6227	335	176	---	22.8S	69.4W	14 04 373 B.C.E.
08693	Dec 02 373 B.C.E.	19:11:00	1585521.2993068	-0373	Dec 02 23:21:21	015021	LNN	Dec.	1.5398	0.0189	-0.9537	037	---	---	23.3N	70.5E	14 09 373 B.C.E.
08694	Jan 01 372 B.C.E.	05:43:49	1585698.7387612	-0372	Jan 01 09:54:08	015019	LNN	Dec.	-1.1248	0.7793	-0.1910	220	---	---	22.4N	84.2W	13 10 372 B.C.E.
08695	May 28 372 B.C.E.	14:57:54	1585876.1235408	-0372	May 28 19:08:08	015014	LNN	Asc.	-1.4086	0.3006	-0.7531	164	---	---	21.9S	133.4E	13 03 372 B.C.E.
08696	Jun 27 372 B.C.E.	05:20:27	1585727.2253442	-0372	Jun 27 09:30:40	015013	LNN	Asc.	1.4147	0.2969	-0.7717	165	---	---	22.5S	81.1W	14 04 372 B.C.E.
08697	Nov 22 372 B.C.E.	09:30:53	1585875.8964496	-0372	Nov 22 13:41:00	015007	LPU	Dec.	0.9275	1.1597	0.1528	269	086	---	20.4N	145.3W	14 09 372 B.C.E.
08698	May 17 371 B.C.E.	21:03:00	1586052.3770865	-0371	May 18 01:13:01	014999	LPU	Asc.	-0.5918	1.7743	0.7700	319	182	---	18.7S	42.0E	13 02 371 B.C.E.
08699	Nov 11 371 B.C.E.	18:16:51	1586230.2616992	-0371	Nov 11 22:26:41	014992	LPU	Dec.	0.2601	2.4130	1.3491	355	219	084	16.8N	82.7E	15 08 371 B.C.E.
08700	May 07 370 B.C.E.	10:09:45	1586406.9234368	-0370	May 07 14:19:31	014985	LPU	Asc.	0.1904	2.4866	1.5304	321	206	092	15.0S	150.0W	13 02 370 B.C.E.
08701	Oct 31 370 B.C.E.	19:53:06	1586584.3285368	-0370	Nov 01 00:02:42	014977	LPU	Dec.	-0.4356	2.1104	1.0082	364	211	015	12.5N	58.7E	14 08 370 B.C.E.
08702	Apr 26 369 B.C.E.	03:06:22	1586761.6294247	-0369	Apr 26 07:15:53	014971	LPU	Asc.	0.9165	1.1472	0.2049	255	081	---	10.9S	47.2W	14 02 369 B.C.E.
08703	Oct 19 369 B.C.E.	19:08:49	1586938.2977943	-0369	Oct 19 23:18:13	014963	LNN	Dec.	-1.1064	0.8733	-0.2164	267	---	---	7.8N	70.2E	14 08 369 B.C.E.
08704	Mar 17 368 B.C.E.	09:32:37	1587086.8976533	-0368	Mar 17 13:41:54	014957	LPU	Asc.	-0.9408	1.1346	0.1290	272	081	---	2.4N	140.7W	14 13 368 B.C.E.
08705	Sep 09 368 B.C.E.	11:01:32	1587262.9593981	-0368	Sep 09 15:10:42	014950	LNN	Dec.	1.0371	0.9542	-0.0438	250	---	---	6.4S	166.1W	12 06 368 B.C.E.
08706	Mar 06 367 B.C.E.	16:25:12	1587441.1841681	-0367	Mar 06 20:34:12	014942	LPU	Asc.	-0.2188	2.4883	1.4253	363	226	092	7.3N	117.3E	15 12 367 B.C.E.
08707	Aug 30 367 B.C.E.	01:41:43	1587617.5706386	-0367	Aug 30 05:50:40	014936	LPU	Dec.	0.3006	2.2855	1.3272	313	197	077	11.0S	25.3W	13 06 367 B.C.E.
08708	Feb 23 366 B.C.E.	17:01:45	1587795.2095527	-0366	Feb 23 21:10:34	014929	LPU	Asc.	0.5109	1.9654	0.8767	357	202	---	12.0N	109.0E	14 12 366 B.C.E.
08709	Apr 19 366 B.C.E.	18:14:19	1587972.2599415	-0366	Apr 19 22:23:00	014922	LPU	Dec.	-0.4080	2.0899	1.1286	310	190	052	15.2S	87.1E	14 06 366 B.C.E.
08710	Feb 12 365 B.C.E.	18:01:32	1588149.2510697	-0365	Feb 12 22:10:06	014914	LNN	Asc.	1.2022	0.6843	-0.3792	235	---	---	16.4N	94.4E	14 12 365 B.C.E.
08711	Jul 09 365 B.C.E.	20:44:14	1588297.3640474	-0365	Jul 09 00:52:43	014908	LPU	Dec.	1.5266	0.0693	-0.9553	077	---	---	21.8S	48.8E	15 04 365 B.C.E.
08712	Aug 08 365 B.C.E.	07:57:26	1588326.8315502	-0365	Aug 08 12:05:53	014907	LNN	Dec.	-1.1763	0.7012	-0.3018	224	---	---	19.0S	118.4W	14 05 365 B.C.E.
08713	Jan 02 364 B.C.E.	13:45:29	1588471.0732560	-0364	Jan 02 17:53:52	014902	LPU	Asc.	-0.9045	1.1938	0.2030	267	095	---	22.6N	155.7E	13 10 364 B.C.E.
08714	Jun 29 364 B.C.E.	00:40:03	1588651.5278108	-0364	Jun 29 04:48:17	014895	LPU	Dec.	0.8164	1.3931	0.3277	319	134	---	23.0S	10.7W	14 04 364 B.C.E.
08715	Dec 23 364 B.C.E.	04:57:01	1588828.7062604	-0364	Dec 23 09:05:09	014888	LPU	Asc.	-0.2202	2.4389	1.4688	316	202	087	23.5N	73.5W	14 10 364 B.C.E.
08716	Jun 18 363 B.C.E.	01:13:59	1589005.5513830	-0363	Jun 18 05:22:02	014881	LPU	Dec.	0.0560	2.7866	1.7246	371	234	106	23.3S	19.9W	14 03 363 B.C.E.
08717	Dec 02 363 B.C.E.	20:01:36	1589183.3344401	-0363	Dec 02 00:09:27	014873	LPU	Asc.	0.4564	2.0182	1.0231	315	191	023	23.5N	58.9E	15 09 363 B.C.E.
08718	Jun 07 362 B.C.E.	05:48:44	1589359.7421780	-0362	Jun 07 09:56:31	014866	LPU	Dec.	-0.7102	1.5632	0.5469	312	161	---	22.9S	89.2W	13 03 362 B.C.E.
08719	Dec 02 362 B.C.E.	06:23:39	1589537.7664258	-0362	Dec 02 10:31:18	014859	LNN	Asc.	1.1921	0.6962	-0.3543	230	---	---	22.6N	98.0W	14 09 362 B.C.E.
08720	Apr 27 361 B.C.E.	10:17:51	1589684.9290654	-0361	Apr 27 14:25:25	014854	LNN	Dec.	1.1057	0.8032	-0.1453	223	---	---	11.2S	155.0W	13 02 361 B.C.E.
08721	May 26 361 B.C.E.	17:38:31	1589714.2														

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Delta T (seconds)	Lunar Eclipse Type			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
	Month	Day	Time (UT)	Julian Date (UT)	Day	Time (UT)	Node		Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year
08775	Jul	29	18:09:20	5159854.2564826	-0337	Jul 29 22:11:03	014504	LPU	Asc.	0.5126	1.9516	0.8838	351	201	19.7S	88.2E	15 05 337 B.C.E.	
08776	Dec 24	337 B.C.E.	13:02:49	51598692.0463282	-0337	Dec 24 17:04:27	014498	LNN	Dec.	1.5468	0.0061	-0.9665	021	---	25.3N	165.4E	13 10 337 B.C.E.	
08777	Jan 22	336 B.C.E.	23:11:59	51598721.4666550	-0336	Jan 23 03:13:36	014497	LNN	Dec.	-1.0997	0.8225	-0.1423	225	---	19.5N	15.6E	14 11 336 B.C.E.	
08778	Jun 19	336 B.C.E.	04:06:12	51598868.6709776	-0336	Jun 19 08:07:43	014491	LNN	Asc.	-1.5667	0.0083	-1.0413	028	---	24.9S	62.8W	13 03 336 B.C.E.	
08779	Jul 18	336 B.C.E.	18:30:40	51598898.2712977	-0336	Jul 18 22:32:10	014490	LNN	Asc.	1.2561	0.5890	-0.4817	226	---	21.1S	82.4E	14 04 336 B.C.E.	
08780	Dec 14	336 B.C.E.	03:03:48	51599046.6276346	-0336	Dec 14 07:05:11	014484	LPU	Dec.	0.9330	1.1520	0.1402	270	083	24.2N	46.3W	14 09 336 B.C.E.	
08781	Jun 08	335 B.C.E.	11:07:03	51599222.9632264	-0335	Jun 08 15:08:21	014477	LPU	Asc.	-0.7442	1.4910	0.4941	300	150	23.2S	168.5W	13 03 335 B.C.E.	
08782	Dec 03	335 B.C.E.	11:03:54	51599400.9610416	-0335	Dec 03 15:05:02	014470	LTU	Dec.	0.2655	2.4063	1.3360	357	220	083	22.1N	167.6W	14 09 335 B.C.E.
08783	May 29	334 B.C.E.	01:00:19	51599572.5418910	-0334	May 29 05:01:24	014464	LTU	Asc.	0.0414	2.7574	1.8065	322	208	100	20.6S	17.1W	13 03 334 B.C.E.
08784	Nov 22	334 B.C.E.	12:01:40	51599755.0011528	-0334	Nov 22 16:02:36	014457	LTU	Dec.	-0.4235	2.1345	1.0286	365	212	028	19.1N	177.1E	13 09 334 B.C.E.
08785	May 17	333 B.C.E.	18:11:18	51599932.2578427	-0333	May 17 22:12:07	014450	LPU	Asc.	0.7762	1.4042	0.4627	275	129	17.5S	85.4E	14 02 333 B.C.E.	
08786	Nov 10	333 B.C.E.	11:22:40	51600108.9740792	-0333	Nov 10 15:23:23	014443	LNN	Dec.	-1.0858	0.9108	-0.1783	270	---	15.4N	173.5W	13 08 333 B.C.E.	
08787	Apr 08	332 B.C.E.	00:29:15	51600257.5203100	-0332	Apr 08 04:29:52	014437	LNN	Asc.	-1.0637	0.9097	-0.0971	252	---	6.2S	7.0W	15 01 332 B.C.E.	
08788	May 07	332 B.C.E.	10:01:21	51600286.9176013	-0332	May 07 14:01:55	014435	LNN	Asc.	1.5502	0.0007	-0.9738	006	---	13.9S	151.6W	14 02 332 B.C.E.	
08789	Oct 01	332 B.C.E.	03:34:01	51600433.6486234	-0332	Oct 01 07:34:31	014430	LNN	Dec.	1.0805	0.8745	-0.1237	240	---	2.4N	55.7W	13 07 332 B.C.E.	
08790	Mar 28	331 B.C.E.	06:42:48	51600611.7797170	-0331	Mar 28 10:43:10	014424	LTU	Asc.	-0.3363	2.2721	1.2105	360	219	070	1.3S	99.1W	14 01 331 B.C.E.
08791	Sep 20	331 B.C.E.	18:22:23	51600788.2655390	-0331	Sep 20 22:22:41	014418	LTU	Dec.	0.3630	2.1731	1.2106	310	193	064	2.6S	83.1E	14 07 331 B.C.E.
08792	Jul 17	330 B.C.E.	07:15:16	51600965.8022628	-0330	Jul 17 11:15:27	014411	LTU	Asc.	0.4050	2.1557	1.0748	363	215	044	3.7N	106.0W	14 13 330 B.C.E.
08793	Sep 10	330 B.C.E.	10:29:51	51601142.9374007	-0330	Sep 10 14:29:53	014403	LTU	Dec.	-0.3315	2.2351	1.2642	316	198	071	7.4S	157.8W	14 06 330 B.C.E.
08794	Mar 05	329 B.C.E.	09:06:47	51601319.8797120	-0329	Mar 05 13:06:44	014396	LNN	Asc.	1.1160	0.8360	-0.2149	254	---	8.7N	132.7W	13 12 329 B.C.E.	
08795	Aug 29	329 B.C.E.	23:17:44	51601497.4706430	-0329	Aug 30 03:17:34	014391	LNN	Asc.	-1.0897	0.8667	-0.1492	247	---	12.0S	11.0E	15 06 329 B.C.E.	
08796	Jan 24	328 B.C.E.	06:58:59	51601644.7909636	-0328	Jan 24 10:58:45	014385	LPU	Dec.	-0.9258	1.1502	0.1683	262	084	19.4N	100.8W	13 11 328 B.C.E.	
08797	Jul 20	328 B.C.E.	13:52:52	51601822.3737666	-0328	Jul 20 17:52:29	014378	LPU	Dec.	0.9753	1.1049	0.0327	294	044	21.0S	152.1E	14 05 328 B.C.E.	
08798	Jan 13	327 B.C.E.	22:36:31	51601999.4420205	-0327	Jan 14 02:36:01	014371	LTU	Asc.	-0.2366	2.4073	1.4404	316	201	085	22.0N	24.1E	14 11 327 B.C.E.
08799	Jul 09	327 B.C.E.	14:23:42	51602176.0997941	-0327	Jul 09 18:23:08	014364	LTU	Dec.	0.2217	2.4822	1.4209	366	228	092	23.0S	144.0E	13 04 327 B.C.E.
08800	Jan 03	326 B.C.E.	13:33:29	51602354.0649220	-0326	Jan 03 17:32:45	014357	LTU	Asc.	0.4498	2.0313	1.0341	317	193	028	23.9N	158.7E	14 10 326 B.C.E.
08801	Jun 28	326 B.C.E.	19:45:23	51602530.3231860	-0326	Jun 28 23:44:36	014351	LPU	Dec.	-0.5487	1.8568	0.8456	325	189	---	24.3S	62.9E	13 04 326 B.C.E.
08802	Dec 23	326 B.C.E.	23:20:04	51602708.4722725	-0326	Dec 24 03:19:09	014344	LNN	Asc.	1.1932	0.6965	-0.3585	232	---	24.8N	10.6E	15 10 326 B.C.E.	
08803	May 19	325 B.C.E.	01:17:24	51602855.2657548	-0325	May 19 05:16:23	014338	LNN	Dec.	1.2447	0.5457	-0.3979	188	---	17.5S	20.9W	14 02 325 B.C.E.	
08804	Jun 17	325 B.C.E.	08:20:25	51602884.8475151	-0325	Jun 17 12:19:22	014337	LNN	Dec.	-1.2643	0.5176	-0.4414	187	---	24.6S	126.7W	13 03 325 B.C.E.	
08805	Nov 12	325 B.C.E.	06:18:12	51603032.7626442	-0325	Nov 12 10:17:04	014331	LNN	Asc.	-1.1274	0.8429	-0.2631	267	---	16.0N	97.1W	14 08 325 B.C.E.	
08806	Nov 08	324 B.C.E.	18:33:05	51603210.2729693	-0324	Nov 08 22:31:48	014324	LPU	Dec.	0.5194	1.8785	0.9309	301	177	---	15.3S	80.3E	15 02 324 B.C.E.
08807	May 01	324 B.C.E.	06:42:10	51603386.7728550	-0324	May 01 10:40:49	014317	LTU	Asc.	-0.4273	2.1117	1.0370	352	207	031	13.0N	103.5W	13 08 324 B.C.E.
08808	Apr 28	323 B.C.E.	09:09:00	51603564.8812483	-0323	Apr 28 13:07:29	014311	LTU	Dec.	-0.2358	2.4208	1.4298	334	214	088	12.7S	138.4E	14 02 323 B.C.E.
08809	Oct 21	323 B.C.E.	13:53:34	51603741.0788643	-0323	Oct 21 17:52:00	014304	LTU	Asc.	0.2886	2.3363	1.3208	334	210	079	9.6N	145.5E	12 08 323 B.C.E.
08810	Jul 17	322 B.C.E.	17:10:36	51603919.2156906	-0322	Jul 17 21:08:53	014297	LNN	Dec.	-1.0425	0.9689	-0.0779	271	---	9.5S	101.7E	15 01 322 B.C.E.	
08811	Oct 11	322 B.C.E.	03:32:23	51604095.6474886	-0322	Oct 11 07:30:33	014290	LPU	Asc.	0.9535	1.0940	0.1226	253	066	---	6.1N	56.0W	13 07 322 B.C.E.
08812	Mar 07	321 B.C.E.	02:35:01	51604243.6076538	-0321	Mar 07 06:33:05	014284	LNN	Dec.	1.0891	0.8995	-0.1792	271	---	7.9N	34.8W	14 12 321 B.C.E.	
08813	Aug 31	321 B.C.E.	09:46:19	51604420.9071683	-0321	Aug 31 13:44:17	014278	LNN	Dec.	-1.0102	0.9939	0.0147	249	027	---	11.4S	146.0W	14 06 321 B.C.E.
08814	Feb 24	320 B.C.E.	05:57:12	51604597.7480598	-0320	Feb 24 09:55:05	014271	LTU	Dec.	-0.3069	2.2776	1.2392	346	214	072	11.4N	84.9E	13 12 320 B.C.E.
08815	Aug 20	320 B.C.E.	20:58:12	51604775.3737521	-0320	Aug 21 00:55:54	014264	LTU	Asc.	0.3269	2.3101	1.2802	345	215	077	14.4S	116.1E	15 06 320 B.C.E.
08816	Feb 13	319 B.C.E.	16:25:56	51604952.1846777	-0319	Feb 13 20:23:35	014257	LTU	Dec.	-0.4090	2.1008	1.1142	319	196	050	14.4N	117.9E	14 12 319 B.C.E.
08817	Aug 10	319 B.C.E.	01:03:47	51605129.5442988	-0319	Aug 10 05:01:16	014250	LPU	Asc.	0.4475	0.2736	1.0009	357	209	005	17.1S	15.4W	14 05 319 B.C.E.
08818	Feb 03	318 B.C.E.	07:46:45	51605306.8241290	-0318	Feb 03 11:44:09	014244	LNN	Dec.	-1.0798	0.8575	-0.1044	228	---	16.9N	112.6W	14 11 318 B.C.E.	
08819	Jul 30	318 B.C.E.	01:16:25	51605483.25530652	-0318	Jul 30 05:13:43	014238	LNN	Asc.	1.1839	0.7221	-0.3500	247	---	19.2S	18.8W	13 05 318 B.C.E.	
08820	Dec 25	318 B.C.E.	11:45:44	51605631.9900884	-0318	Dec 25 15:42:55	014232	LPU	Dec.	0.9386	1.1426	0.1291	270	080	---	24.6N	175.3W	14 10 318 B.C.E.
08821	Jun 18	317 B.C.E.	18:13:46	51605808.2595586	-0317	Jun 18 22:10:52	014225	LPU	Asc.	-0.8176	1.3548	0.3607	289	130	---	24.3S	85.3E	13 03 317 B.C.E.
08822	Dec 13	317 B.C.E.	19:25:24	51605986.3093066	-0317	Dec 13 23:22:20	014218	LTU	Dec.	0.2690	2.4010	1.3285	358	220	083	23.5N	68.3E	15 09 317 B.C.E.
08823	Jun 08	316 B.C.E.	08:26:15	51606162.8515650	-0316	Jun 08 12:23:08	014211	LTU	Dec.	-0.0333	2.7113	1.8222	321	208	100	22.5S	128.3W	13 03 316 B.C.E.
08824	Dec 02	316 B.C.E.	20:07:24	51606340.3384700	-0316	Dec 03 00:04:08	014204	LTU	Dec.	-0.4188	2.1433	1.0367	366	213	031	21.4N	56.6E	14 09 316 B.C.E.
08825	May 29	315 B.C.E.	01:40:25	51606517.9597393	-0315	May 29 05:37:03	014198	LNN	Asc.	0.7035	1.5380	0.5959	283	146	---	20.1S	27.0W	14 03 315 B.C.E.
08826	Nov 21	315 B.C.E.	19:35:51	51606694.3166545	-0315	Nov 21 23:32:22	014191	LNN	Dec.	-1.0798	0.9210	-0.1668	271	---	18.4N	63.6E	13 09 315 B.C.E.	
08827	Apr 19	314 B.C.E.	07:43:15	51606842.8216978	-0314													

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time (UT)	(JD)	(TD)	(Time)		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
08882	Jan	14	289	B.C.E.	15:55:52	1615879	1637950	-0289	Jan	14	19:46:41	013850	LNN	Asc.	1.1815	0.7190	-0.3381	237	---	---	23.3N	124.4E	15	11	289	B.C.E.
08883	Jun	09	289	B.C.E.	16:13:57	1616026	1763581	-0289	Jun	09	20:04:43	013845	LNN	Dec.	1.3862	0.2849	-0.6565	139	---	---	21.3S	115.2E	13	03	289	B.C.E.
08884	Jul	08	289	B.C.E.	23:16:19	1616055	4696661	-0289	Jul	09	03:07:03	013844	LNN	Dec.	-1.1193	0.7827	-0.1744	223	---	---	24.4S	10.8E	13	04	289	B.C.E.
08885	Dec	03	289	B.C.E.	22:28:42	1616203	4366020	-0289	Dec	04	02:19:20	013838	LNN	Asc.	-1.1379	0.8237	-0.2823	264	---	---	21.0N	21.6E	14	09	289	B.C.E.
08886	May	30	288	B.C.E.	09:26:14	1616380	8932224	-0288	May	30	13:16:46	013832	LPU	Dec.	0.6709	1.6018	0.6517	290	154	---	20.5S	143.3W	14	03	288	B.C.E.
08887	Nov	22	288	B.C.E.	23:19:44	1616557	4720428	-0288	Nov	23	03:10:12	013826	LPU	Dec.	-0.4347	2.0965	1.0251	349	206	025	19.4N	7.8E	13	09	288	B.C.E.
08888	May	19	287	B.C.E.	23:27:22	1616735	3769998	-0287	May	20	03:17:38	013819	LPU	Dec.	-0.0837	2.7023	1.7065	341	221	101	18.9S	6.2E	15	02	287	B.C.E.
08889	Nov	12	287	B.C.E.	07:09:44	1616911	7984207	-0287	Nov	12	10:59:58	013812	LPU	Dec.	0.2750	2.3599	1.3471	332	210	081	17.1N	110.6W	13	08	287	B.C.E.
08890	May	09	286	B.C.E.	06:39:42	1617089	7775641	-0286	May	09	10:29:47	013806	LPU	Dec.	-0.8904	1.2491	0.1999	301	105	---	16.7S	101.9W	14	02	286	B.C.E.
08891	Nov	01	286	B.C.E.	21:05:36	1617266	3788886	-0286	Nov	02	00:55:35	013799	LPU	Asc.	0.9318	1.1346	0.1616	256	078	---	14.3N	40.0E	13	08	286	B.C.E.
08892	Mar	28	285	B.C.E.	16:35:18	1617414	1911780	-0285	Mar	28	20:25:13	013795	LNN	Dec.	1.2055	0.6808	-0.3881	240	---	---	0.5S	113.3E	14	01	285	B.C.E.
08893	Sep	22	285	B.C.E.	02:08:19	1617591	5891138	-0285	Sep	22	05:58:07	013788	LNN	Asc.	-1.0783	0.8746	-0.1158	239	---	---	3.0S	32.9W	14	07	285	B.C.E.
08894	Mar	17	284	B.C.E.	21:02:53	1617768	3769998	-0284	Mar	18	00:52:36	013781	LPU	Dec.	0.4207	2.0988	1.0735	337	205	042	3.2N	47.1E	13	13	284	B.C.E.
08895	Sep	11	284	B.C.E.	12:16:06	1617946	0111799	-0284	Sep	11	16:05:38	013774	LPU	Dec.	-0.3938	2.1573	1.1142	344	208	052	6.6S	175.6E	14	06	284	B.C.E.
08896	Mar	07	283	B.C.E.	08:34:54	1618122	8575702	-0283	Mar	07	12:24:24	013768	LPU	Dec.	-0.3313	2.2377	1.2623	320	201	072	6.7N	125.4W	13	12	283	B.C.E.
08897	Aug	31	283	B.C.E.	15:18:25	1618300	1377865	-0283	Aug	31	19:07:46	013762	LPU	Dec.	0.3390	2.2777	1.1951	366	221	068	10.2S	130.3E	13	06	283	B.C.E.
08898	Feb	25	282	B.C.E.	00:31:27	1618477	5218432	-0282	Feb	25	04:20:43	013756	LPU	Dec.	-1.0200	0.9643	0.0084	239	020	---	9.9N	4.2W	14	12	282	B.C.E.
08899	Aug	20	282	B.C.E.	15:13:25	1618654	1343192	-0282	Aug	20	19:02:35	013749	LNN	Asc.	1.0578	0.9551	-0.1203	277	---	---	13.4S	131.8E	13	06	282	B.C.E.
08900	Jan	16	281	B.C.E.	04:53:30	1618802	7038211	-0281	Jan	16	08:42:33	013743	LPU	Dec.	0.9612	1.1021	0.0866	268	066	---	22.8N	69.7W	15	11	281	B.C.E.
08901	Jul	10	281	B.C.E.	08:40:01	1618978	8611223	-0281	Jul	10	12:28:58	013737	LPU	Dec.	-0.9564	1.0982	0.1081	266	070	---	24.0S	129.8W	14	04	281	B.C.E.
08902	Jan	04	280	B.C.E.	11:55:24	1619156	9968095	-0280	Jan	04	15:44:12	013730	LPU	Dec.	0.2841	2.3746	1.2997	360	220	080	23.5N	176.5W	14	10	280	B.C.E.
08903	Jun	29	280	B.C.E.	23:23:17	1619333	4475064	-0280	Jun	30	03:12:03	013725	LPU	Dec.	-0.1793	2.5027	1.5550	318	203	093	23.9S	8.6E	14	04	280	B.C.E.
08904	Dec	24	280	B.C.E.	12:15:29	1619511	10107489	-0280	Dec	24	16:04:08	013719	LPU	Dec.	-0.4072	2.1640	1.0586	367	214	039	23.4N	177.0E	13	10	280	B.C.E.
08905	Jun	19	279	B.C.E.	16:36:29	1619688	9920022	-0279	Jun	19	20:25:01	013712	LPU	Dec.	0.5574	1.8078	0.8625	298	171	---	23.0S	109.6E	14	03	279	B.C.E.
08906	Dec	13	279	B.C.E.	12:06:25	1619865	0044529	-0279	Dec	13	15:54:51	013706	LNN	Dec.	-1.0695	0.9374	-0.1453	271	---	---	22.2N	177.9E	13	09	279	B.C.E.
08907	May	10	278	B.C.E.	21:52:33	1620013	4114904	-0278	May	11	01:40:53	013700	LNN	Asc.	-1.2888	0.4994	-0.5128	197	---	---	17.6S	29.9E	15	02	278	B.C.E.
08908	Jun	09	278	B.C.E.	07:39:45	1620042	8192720	-0278	Jun	09	11:28:04	013699	LNN	Asc.	1.3444	0.3830	-0.6005	168	---	---	21.3S	116.6W	14	03	278	B.C.E.
08909	Nov	03	278	B.C.E.	05:21:36	1620189	7233332	-0278	Nov	03	09:09:50	013694	LNN	Dec.	1.1027	0.8330	-0.1636	234	---	---	15.0N	83.9W	13	08	278	B.C.E.
08910	Apr	29	277	B.C.E.	03:01:09	1620367	5257975	-0277	Apr	29	06:49:16	013688	LPU	Dec.	-0.5612	1.8591	0.7980	346	194	---	13.5S	46.6W	14	02	277	B.C.E.
08911	Oct	22	277	B.C.E.	20:19:09	1620544	3466322	-0277	Oct	23	00:07:10	013681	LPU	Dec.	0.4107	2.0885	1.1202	308	189	050	10.5N	52.0E	14	08	277	B.C.E.
08912	Apr	18	276	B.C.E.	03:34:10	1620721	8487299	-0276	Apr	18	07:22:06	013675	LPU	Dec.	0.1947	2.5359	1.4662	371	231	096	9.0S	53.8W	14	01	276	B.C.E.
08913	Oct	12	276	B.C.E.	11:47:37	1620898	9914040	-0276	Oct	12	15:35:24	013668	LPU	Dec.	-0.2668	2.3611	1.3758	322	205	082	5.8N	179.4W	14	07	276	B.C.E.
08914	Apr	07	275	B.C.E.	06:49:11	1621075	7841534	-0275	Apr	07	10:36:54	013662	LPU	Dec.	0.9349	1.1588	0.1265	285	083	---	4.2S	101.4W	13	01	275	B.C.E.
08915	Oct	01	275	B.C.E.	23:11:03	1621253	4660083	-0275	Oct	02	02:58:37	013655	LNT	Dec.	-1.0091	1.0243	-0.0110	268	---	---	0.8N	110.6E	15	07	275	B.C.E.
08916	Feb	26	274	B.C.E.	07:58:27	1621430	8322516	-0274	Feb	26	11:45:58	013651	LPU	Dec.	-1.0018	1.0032	0.0360	246	012	---	9.4N	116.5E	13	12	274	B.C.E.
08917	Aug	22	274	B.C.E.	10:29:50	1621577	9373803	-0274	Aug	22	14:17:14	013644	LNN	Dec.	1.1686	0.7561	-0.3277	254	---	---	12.7S	157.2W	13	06	274	B.C.E.
08918	Feb	16	273	B.C.E.	00:15:44	1621755	5109306	-0273	Feb	16	04:03:01	013637	LPU	Dec.	-0.3006	2.2865	1.3259	313	197	077	13.7N	0.5E	14	12	273	B.C.E.
08919	Aug	10	273	B.C.E.	11:01:41	1621931	9595060	-0273	Aug	10	14:48:54	013631	LPU	Dec.	0.4285	2.1033	1.0408	354	210	033	16.7S	164.7W	13	05	273	B.C.E.
08920	Feb	04	272	B.C.E.	15:04:19	1622110	1280002	-0272	Feb	04	18:51:22	013624	LPU	Dec.	0.4078	2.1086	1.1108	322	199	049	17.7N	138.5E	14	11	272	B.C.E.
08921	Jul	30	272	B.C.E.	17:24:53	1622286	2256109	-0272	Jul	30	21:11:54	013619	LPU	Dec.	-0.3366	2.2440	1.2370	335	210	071	20.2S	99.5E	13	05	272	B.C.E.
08922	Jan	25	271	B.C.E.	00:03:02	1622464	5021094	-0271	Jan	25	03:49:55	013612	LNN	Asc.	1.1683	0.7433	-0.3141	241	---	---	21.2N	3.5E	15	11	271	B.C.E.
08923	Jun	20	271	B.C.E.	23:43:16	1622611	4883829	-0271	Jun	21	03:30:03	013607	LNN	Dec.	1.4561	0.1966	-0.7847	104	---	---	22.1S	3.3E	14	04	271	B.C.E.
08924	Jul	20	271	B.C.E.	06:51:26	1622760	7857188	-0271	Jul	20	10:38:12	013606	LNN	Dec.	-1.0519	0.9562	-0.0508	236	---	---	23.0S	102.4W	13	05	271	B.C.E.
08925	Dec	15	271	B.C.E.	06:34:28	1622788	7739323	-0271	Dec	15	10:21:08	013600	LNN	Dec.	-1.1424	0.8147	-0.2901	263	---	---	22.3N	98.7W	14	10	271	B.C.E.
08926	Jun	10	270	B.C.E.	16:51:06	1622966	20214																			

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Month	Day	Hour	Minute			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Minutes	Lat.	Lon.	Day	Month	Year						
08989	Jan	04	242	B.C.E.	04:31:25	1633035.6884816	-0242	Jan	04	08:12:03	013239	LNN	Dec.	-1.0515	0.9663	-0.1084	273	---	---	22.4N	65.8W	13	10	242	B.C.E.
08990	Jun	01	242	B.C.E.	11:41:48	1633183.9873598	-0242	Jun	01	15:22:22	013234	LNN	Asc.	-1.4534	0.2004	-0.8179	129	---	---	22.8S	177.5W	14	03	242	B.C.E.
08991	Jun	30	242	B.C.E.	21:59:34	1633213.4163640	-0242	Jul	01	04:40:07	013233	LNN	Asc.	-1.2054	0.6425	-0.3498	214	---	---	22.5S	29.4E	15	04	242	B.C.E.
08992	Nov	24	242	B.C.E.	22:58:01	1633360.4569564	-0242	Nov	25	02:38:30	013229	LNN	Dec.	-1.1009	0.8349	-0.1589	233	---	---	21.3N	13.0E	13	09	242	B.C.E.
08993	May	20	241	B.C.E.	16:03:29	1633538.1690812	-0241	May	20	19:43:50	013222	LPU	Asc.	-0.7316	1.5471	0.4847	329	159	---	19.9S	117.1E	14	03	241	B.C.E.
08994	Nov	13	241	B.C.E.	14:03:59	1633715.0860947	-0241	Nov	13	17:44:15	013216	LTU	Dec.	-0.4202	0.2723	1.1014	308	188	046	17.9N	146.0E	13	09	241	B.C.E.
08995	May	09	240	B.C.E.	16:39:02	1633892.1937788	-0240	May	09	20:19:13	013210	LTU	Asc.	-0.0301	2.8348	1.7713	372	235	106	16.2S	108.6E	14	02	240	B.C.E.
08996	Nov	03	240	B.C.E.	05:09:15	1634069.7147623	-0240	Nov	03	08:49:17	013203	LTU	Dec.	-0.2515	2.3934	1.3998	325	207	084	13.9N	80.5W	14	08	240	B.C.E.
08997	Apr	28	239	B.C.E.	20:51:36	1634246.3691694	-0239	Apr	29	00:31:35	013198	LPU	Asc.	-0.7878	1.4232	0.4019	304	141	---	12.1S	46.2E	13	02	239	B.C.E.
08998	Oct	23	239	B.C.E.	15:38:39	1634424.1518438	-0239	Oct	23	19:18:30	013192	LPU	Dec.	-0.9857	1.0730	0.0262	275	038	---	9.5N	122.5E	15	08	239	B.C.E.
08999	Mar	20	238	B.C.E.	00:00:35	1634571.5004096	-0238	Mar	20	03:40:22	013186	LNN	Asc.	-1.0852	0.8455	-0.1123	229	---	---	1.0N	2.0E	14	13	238	B.C.E.
09000	Apr	18	238	B.C.E.	08:13:37	1634600.8427897	-0238	Apr	18	11:53:22	013185	LNN	Asc.	-1.4822	0.1230	-0.8465	096	---	---	7.7S	123.3W	13	01	238	B.C.E.
09001	Sep	13	238	B.C.E.	00:57:57	1634748.5402468	-0238	Sep	13	04:37:37	013180	LNN	Dec.	-1.2597	0.5927	-0.4986	229	---	---	4.7S	15.5W	14	06	238	B.C.E.
09002	Mar	08	237	B.C.E.	16:40:33	1634926.1948219	-0237	Mar	08	20:20:06	013174	LTU	Asc.	-0.3769	2.1446	1.1880	310	192	061	5.8N	113.1E	15	12	237	B.C.E.
09003	Sep	01	237	B.C.E.	01:34:20	1635102.5655051	-0237	Sep	01	05:13:48	013167	LPU	Asc.	-0.5302	1.9175	0.8535	345	196	---	9.5S	23.7W	13	06	237	B.C.E.
09004	Feb	26	236	B.C.E.	07:20:53	1635280.8061684	-0236	Feb	26	11:00:13	013162	LTU	Asc.	-0.3474	2.2193	1.2217	328	205	068	10.4N	106.1W	14	12	236	B.C.E.
09005	Aug	21	236	B.C.E.	08:34:04	1635456.8569934	-0236	Aug	21	12:13:22	013156	LTU	Dec.	-0.2265	2.4455	1.4395	337	215	089	14.0S	128.0W	13	06	236	B.C.E.
09006	Aug	15	235	B.C.E.	15:47:02	1635635.1576668	-0235	Feb	15	19:26:12	013150	LNN	Asc.	-1.1203	0.8312	-0.2258	254	---	---	14.9N	128.0E	15	12	235	B.C.E.
09007	Aug	10	235	B.C.E.	22:24:22	1635811.4335924	-0235	Aug	11	02:03:25	013143	LPU	Dec.	-0.9349	1.1216	0.1632	256	074	---	18.0S	24.9E	13	05	235	B.C.E.
09008	May	05	234	B.C.E.	22:35:47	1635959.4415182	-0234	Jan	06	02:14:44	013138	LNN	Asc.	-1.1592	0.7815	-0.3183	258	---	---	22.1N	23.5E	14	10	234	B.C.E.
09009	Jul	02	234	B.C.E.	07:41:32	1636136.8250573	-0234	Jul	02	11:20:23	013132	LPU	Dec.	-0.8961	1.1930	0.2343	264	094	---	22.7S	115.8W	14	04	234	B.C.E.
09010	Dec	26	234	B.C.E.	00:25:45	1636313.5178861	-0234	Dec	26	04:04:33	013126	LTU	Asc.	-0.4415	2.0787	1.0177	344	204	021	23.3N	5.3W	13	10	234	B.C.E.
09011	Jun	20	233	B.C.E.	20:33:12	1636491.3563924	-0233	Jun	21	00:11:50	013120	LTU	Dec.	-0.1539	2.5793	1.5720	344	222	097	23.5S	50.7E	15	04	233	B.C.E.
09012	Dec	14	233	B.C.E.	09:25:01	1636667.8923747	-0233	Dec	14	13:03:37	013114	LTU	Asc.	-0.2689	2.3670	1.3622	329	209	082	23.6N	141.6W	13	10	233	B.C.E.
09013	Jun	10	232	B.C.E.	02:20:32	1636845.5975938	-0232	Jun	10	05:58:59	013108	LPU	Dec.	-0.6396	1.7126	0.6570	337	179	---	23.3S	36.9W	14	03	232	B.C.E.
09014	Dec	03	232	B.C.E.	23:52:06	1637022.4945137	-0232	Dec	04	03:30:27	013101	LPU	Asc.	-0.9218	1.1528	0.1802	257	083	---	23.0N	0.2E	14	09	232	B.C.E.
09015	Apr	30	231	B.C.E.	12:47:38	1637170.0330761	-0231	Apr	30	16:25:56	013097	LNN	Dec.	-1.4193	0.2818	-0.7736	159	---	---	12.2S	167.4E	13	02	231	B.C.E.
09016	May	30	231	B.C.E.	03:09:28	1637199.6315695	-0231	May	30	06:47:44	013096	LNN	Dec.	-1.4023	0.3185	-0.7478	171	---	---	22.3S	49.7W	14	03	231	B.C.E.
09017	Oct	25	231	B.C.E.	03:30:38	1637347.6462775	-0231	Oct	25	07:08:49	013091	LNN	Asc.	-1.1360	0.7767	-0.2293	230	---	---	9.9N	55.3W	14	08	231	B.C.E.
09018	Apr	19	230	B.C.E.	18:53:08	1637524.2868966	-0230	Apr	19	22:31:14	013085	LPU	Dec.	-0.6074	1.7471	0.7401	318	179	---	9.2S	75.5E	13	01	230	B.C.E.
09019	Oct	14	230	B.C.E.	12:06:44	1637702.0046754	-0230	Oct	14	15:44:40	013078	LPU	Asc.	-0.4729	2.0213	0.9600	344	201	---	6.4N	176.8E	14	07	230	B.C.E.
09020	Oct	08	229	B.C.E.	07:55:06	1637878.8299351	-0229	Apr	08	11:33:00	013072	LTU	Dec.	-0.1659	2.5336	1.5732	322	207	094	5.9S	118.4W	13	01	229	B.C.E.
09021	Oct	02	229	B.C.E.	13:43:08	1638056.0716244	-0229	Oct	02	17:20:54	013066	LPU	Asc.	-0.2302	2.4842	1.3882	374	229	090	2.5N	152.0E	13	07	229	B.C.E.
09022	Mar	29	228	B.C.E.	00:37:43	1638233.5261887	-0228	Mar	29	04:15:23	013061	LPU	Dec.	-0.8817	1.2142	0.2659	261	096	---	2.5S	8.3W	14	01	228	B.C.E.
09023	Sep	21	228	B.C.E.	13:23:52	1638410.3582392	-0228	Sep	21	17:01:26	013054	LPU	Asc.	-0.9239	1.2032	0.1231	301	084	---	1.5S	157.3E	13	07	228	B.C.E.
09024	Feb	17	227	B.C.E.	05:34:25	1638558.7323263	-0227	Feb	17	09:11:54	013049	LNN	Dec.	-1.0398	0.9584	-0.0578	256	---	---	14.3N	78.7W	15	12	227	B.C.E.
09025	Aug	12	227	B.C.E.	07:11:19	1638734.7995209	-0227	Aug	12	10:48:43	013044	LNN	Asc.	-1.1275	0.7831	-0.2046	230	---	---	17.7S	106.6W	13	05	227	B.C.E.
09026	Feb	06	226	B.C.E.	11:46:11	1638912.9904013	-0226	Feb	06	15:23:27	013038	LTU	Dec.	-0.3463	2.2599	1.1859	359	217	066	17.1N	171.9W	14	11	226	B.C.E.
09027	Aug	01	226	B.C.E.	22:23:10	1639089.4327596	-0226	Aug	02	02:00:22	013031	LPU	Dec.	-0.3721	2.1501	1.2001	309	191	063	19.8S	25.1E	14	05	226	B.C.E.
09028	Jan	26	225	B.C.E.	11:50:43	1639266.9935494	-0225	Jan	26	15:27:49	013026	LTU	Dec.	-0.3591	2.2486	1.1506	369	219	061	19.5N	173.6W	13	11	225	B.C.E.
09029	Jul	21	225	B.C.E.	15:16:55	1639444.1367520	-0225	Jul	21	18:53:54	013020	LPU	Asc.	-0.3539	2.1858	1.2309	313	195	067	21.2S	131.2E	14	05	225	B.C.E.
09030	Jan	14	224	B.C.E.	12:38:06	1639621.0264550	-0224	Jan	14	16:15:01	013014	LNN	Dec.	-1.0369	0.9908	-0.0790	274	---	---	21.1N	173.6E	13	11	224	B.C.E.
09031	Jun	11	224	B.C.E.	18:33:14	1639799.2730794	-0224	Jun	11	22:10:03	013008	LNN	Asc.	-1.5362	0.0504	-0.9716	066	---	---	24.4S	80.1E	15	03	224	B.C.E.
09032	Jul	11	224	B.C.E.	05:12:02	1639978.7166915	-0224	Jul	11	08:48:49	013007	LNN	Asc.	-1.1389	0.7671	-0.2303	232	---	---	21.9S	78.2W	14	04	224	B.C.E.
09033	Dec	05	224	B.C.E.	07:49:37	1639945.8621262	-0224	Dec	05	11:26:19	013002	LNN	Asc.	-1.0981	0.8389	-0.1527	232	---	---	23.4N	118.8W	13	09	224	B.C.E.
09034	May	31	223	B.C.E.																					

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type Node Gamma Pen. Mag.			Eclipse Phase (minutes)		Greatest in Zenith Lat. Lon.		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Year	Month	Day	Year	Month	Day	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Year	Month	Year					
09096	Jul	01	196	B.C.E.	15:24:13	1650016	1418188	-0196	Jul	01	18:55:17	012665	LPU	Dec.	-0.4718	2.0236	0.9616	354	207	---	24.1S	128.5E	14	04	196	B.C.E.
09097	Dec	25	196	B.C.E.	17:42:58	1650193	2381755	-0196	Dec	25	21:13:58	012660	LPU	Asc.	0.9158	1.1626	0.1925	258	085	---	24.6N	95.3E	14	10	196	B.C.E.
09098	Jun	20	195	B.C.E.	15:59:43	1650370	1664722	-0195	Jun	20	19:30:37	012654	LNN	Dec.	-1.2282	0.6373	-0.4279	234	---	---	24.7N	118.8E	13	04	195	B.C.E.
09099	Nov	15	195	B.C.E.	20:49:40	1650518	3678237	-0195	Nov	16	00:20:29	012649	LNN	Asc.	-1.1516	0.7522	-0.2622	228	---	---	17.0N	45.1E	15	09	195	B.C.E.
09100	May	11	194	B.C.E.	09:07:56	1650694	8805106	-0194	May	11	12:38:40	012643	LPU	Dec.	0.7511	1.4781	0.4814	299	149	---	16.0S	138.4W	13	02	194	B.C.E.
09101	Nov	05	194	B.C.E.	04:29:32	1650872	6871703	-0194	Nov	05	08:00:07	012637	LPU	Asc.	-0.4976	1.9809	0.9097	345	198	---	14.3N	70.4W	14	08	194	B.C.E.
09102	Apr	29	193	B.C.E.	23:02:51	1651049	4603071	-0193	Apr	30	02:33:23	012632	LPU	Dec.	-0.0314	2.7765	1.8240	322	208	100	13.5S	13.1E	14	02	193	B.C.E.
09103	Oct	24	193	B.C.E.	05:18:56	1651226	7214849	-0193	Oct	24	08:49:22	012626	LTU	Asc.	0.1904	2.5605	1.4579	376	231	095	11.0N	83.0W	14	08	193	B.C.E.
09104	Apr	19	192	B.C.E.	16:06:08	1651404	1709231	-0192	Apr	19	19:36:27	012620	LPU	Dec.	-0.7604	1.4351	0.4899	277	133	---	10.6S	117.6E	15	01	192	B.C.E.
09105	Oct	13	192	B.C.E.	05:00:50	1651580	7089123	-0192	Oct	13	08:31:05	012614	LPU	Asc.	0.8712	1.3007	0.2189	309	110	---	7.3N	78.3W	13	07	192	B.C.E.
09106	Mar	10	191	B.C.E.	21:13:01	1651729	3840438	-0191	Mar	11	00:43:11	012610	LNN	Dec.	1.1283	0.7961	-0.2204	239	---	---	6.3N	45.5E	15	12	191	B.C.E.
09107	Apr	09	191	B.C.E.	07:39:03	1651758	8187798	-0191	Apr	09	11:09:11	012609	LNN	Dec.	-1.5269	0.0466	-0.9340	060	---	---	7.4S	115.0W	14	01	191	B.C.E.
09108	Sep	02	191	B.C.E.	22:56:36	1651905	4559708	-0191	Sep	03	02:26:40	012604	LNN	Asc.	-1.2095	0.6326	-0.3551	208	---	---	10.4S	116.3E	13	06	191	B.C.E.
09109	Oct	02	191	B.C.E.	10:36:52	1651934	9422685	-0191	Oct	02	14:06:55	012603	LNN	Asc.	1.5148	0.0909	-0.9336	086	---	---	3.5N	162.0W	12	07	191	B.C.E.
09110	Feb	28	191	B.C.E.	02:51:22	1652083	6190079	-0190	Feb	28	06:21:20	012599	LPU	Dec.	0.4245	2.1155	1.0435	356	210	034	9.8N	38.7W	14	12	190	B.C.E.
09111	Aug	23	190	B.C.E.	14:17:47	1652260	0956857	-0190	Aug	23	17:47:41	012593	LTU	Asc.	-0.4729	1.9671	1.0132	303	182	017	13.5S	146.2E	13	06	190	B.C.E.
09112	Feb	17	189	B.C.E.	02:54:47	1652437	6213793	-0189	Feb	17	06:24:34	012587	LPU	Dec.	-0.2939	2.3643	1.2739	370	225	079	13.2N	39.4W	14	12	189	B.C.E.
09113	Aug	12	189	B.C.E.	06:47:43	1652614	7831383	-0189	Aug	12	10:17:23	012581	LTU	Asc.	0.2405	2.3986	1.4348	320	204	086	16.2S	101.3W	14	05	189	B.C.E.
09114	Feb	05	188	B.C.E.	04:32:39	1652791	6893403	-0188	Feb	05	08:02:14	012575	LPU	Dec.	-0.9894	1.0721	0.0138	281	028	---	16.1N	64.0W	13	11	188	B.C.E.
09115	Aug	01	188	B.C.E.	19:48:10	1652969	3251109	-0188	Aug	01	23:17:38	012569	LNN	Asc.	0.1668	0.9970	-0.0122	261	---	---	18.3S	63.4E	15	05	188	B.C.E.
09116	Dec	27	188	B.C.E.	01:28:52	1653116	5617138	-0188	Dec	27	04:58:17	012565	LNN	Dec.	1.0980	0.8361	-0.1496	231	---	---	24.8N	20.8W	13	10	188	B.C.E.
09117	Jun	22	187	B.C.E.	11:20:42	1653293	9727031	-0187	Jun	22	14:50:00	012559	LNT	Asc.	-0.9947	1.0668	-0.0004	290	---	---	24.6S	171.1W	14	04	187	B.C.E.
09118	Dec	16	187	B.C.E.	16:55:17	1653471	2050525	-0187	Dec	16	20:24:29	012553	LPU	Dec.	0.4238	2.0660	1.0945	308	188	044	23.9N	106.1E	14	10	187	B.C.E.
09119	Jun	11	186	B.C.E.	12:05:14	1653648	0036383	-0186	Jun	11	15:34:23	012547	LTU	Asc.	-0.2299	2.4649	1.4080	365	228	091	23.1S	177.2E	13	03	186	B.C.E.
09120	Dec	06	186	B.C.E.	07:31:47	1653825	8137414	-0186	Dec	06	11:00:47	012541	LPU	Dec.	-0.2489	2.4027	1.4000	328	209	084	22.1N	114.2W	14	09	186	B.C.E.
09121	May	30	185	B.C.E.	17:42:09	1654002	2376057	-0185	May	30	21:11:07	012536	LPU	Asc.	0.5470	1.8584	0.8504	325	189	---	20.8S	92.7E	13	03	185	B.C.E.
09122	Nov	24	185	B.C.E.	16:50:08	1654180	2014831	-0185	Nov	24	20:18:58	012530	LPU	Dec.	-0.9799	1.0900	0.0304	280	041	---	19.5N	105.3E	15	09	185	B.C.E.
09123	Apr	20	184	B.C.E.	23:14:21	1654327	4682998	-0184	Apr	20	02:43:06	012525	LNN	Asc.	-1.2533	0.5314	-0.4151	186	---	---	11.6S	10.5E	14	02	184	B.C.E.
09124	May	20	184	B.C.E.	06:26:23	1654356	7683247	-0184	May	20	09:55:08	012524	LNN	Asc.	1.2644	0.5168	-0.4410	187	---	---	17.9S	98.3W	13	03	184	B.C.E.
09125	Oct	14	184	B.C.E.	23:47:05	1654504	0910300	-0184	Oct	15	03:15:44	012519	LNN	Dec.	1.3407	0.4486	-0.6517	202	---	---	8.5N	0.1E	14	08	184	B.C.E.
09126	Apr	10	183	B.C.E.	16:16:50	1654682	1783523	-0183	Apr	10	19:45:22	012513	LPU	Dec.	-0.5399	1.8435	0.8907	300	175	---	7.1S	115.9E	15	01	183	B.C.E.
09127	Oct	04	183	B.C.E.	00:40:40	1654858	5282440	-0183	Oct	04	04:09:08	012507	LPU	Dec.	0.6235	1.7472	0.6815	334	179	---	3.4N	12.5W	13	07	183	B.C.E.
09128	Mar	31	182	B.C.E.	06:31:39	1655030	7719821	-0182	Mar	31	09:59:59	012502	LPU	Dec.	0.2020	2.4866	1.4882	337	216	092	2.3S	96.5W	15	01	182	B.C.E.
09129	Sep	23	182	B.C.E.	08:31:30	1655212	8552105	-0182	Sep	23	11:59:48	012496	LTU	Dec.	-0.1169	2.6466	1.6407	337	218	098	1.6S	129.3W	13	07	182	B.C.E.
09130	Mar	19	181	B.C.E.	14:04:26	1655391	8864083	-0181	Mar	19	17:32:36	012490	LPU	Asc.	0.9908	1.0682	0.0124	283	027	---	2.6N	151.5E	14	13	181	B.C.E.
09131	Sep	11	181	B.C.E.	22:43:50	1655567	4471007	-0181	Sep	12	02:11:54	012484	LPU	Dec.	-0.8069	1.3587	0.3958	273	123	---	6.5S	18.6E	13	06	181	B.C.E.
09132	Feb	06	180	B.C.E.	21:53:14	1655715	4119732	-0180	Feb	07	01:21:14	012479	LNN	Asc.	-1.2203	0.6630	-0.4244	238	---	---	15.4N	36.0E	14	11	180	B.C.E.
09133	Aug	03	180	B.C.E.	06:20:50	1655892	7644643	-0180	Aug	03	09:48:43	012473	LNN	Dec.	1.0943	0.8362	-0.1362	232	---	---	17.8S	94.6W	14	05	180	B.C.E.
09134	Sep	01	180	B.C.E.	15:07:41	1655922	3303331	-0180	Sep	01	18:35:33	012472	LNN	Dec.	-1.4899	0.1051	-0.8570	087	---	---	11.2S	133.5E	14	06	180	B.C.E.
09135	Jan	27	179	B.C.E.	01:05:25	1656069	5454277	-0179	Jan	27	04:33:14	012468	LPU	Asc.	-0.4758	2.0078	0.9628	337	198	---	19.0N	12.2W	13	11	179	B.C.E.
09136	Jul	23	179	B.C.E.	17:44:08	1656247	2389860	-0179	Jul	23	21:11:50	012463	LPU	Dec.	0.3773	2.1774	1.1541	341	210	060	20.8S	94.5E	15	05	179	B.C.E.
09137	Jan	16	178	B.C.E.	11:27:11	1656423	9772110	-0178	Jan	16	14:54:50	012457	LTU	Asc.	0.2476	2.3999	1.4076	326	208	085	21.9N	168.3W	13	11	178	B.C.E.
09138	Jul	12	178	B.C.E.	21:59:58	1656601	4166391	-0178	Jul	13	01:27:27	012451	LPU	Dec.	-0.3918	2.1723	1.1065	360	216	052	23.2S	20.1E	14	04	178	B.C.E.
09139	Jan	06	177	B.C.E.	02:34:31	1656778	6071910	-0177	Jan	06	06:01:47	012445	LPU	Asc.	0.9099	1.1725	0.2042	258	087	---	24.0N	36.2W	14	10	177	B.C.E.
09140	Jun	30	177	B.C.E.	22:29																					

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)			Date and Time of Maximum Eclipse			Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)			Greatest in Zenith		Hebrew Date on the Creation Calendar		
	Year	Month	Day	Year	Month	Day	(TD)	Time	Node		Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Tot.	Lat.	Lon.	Day	Month	Year
09203	Jul	03	15:14:46	1666818	5519253	-0150	Jul 03	04:36:54	012126	LUN	Asc.	-0.3965	2.1580	1.1035	355	214	051	23.9S	19.0W	13 04	150 B.C.E.
09204	Dec	28	01:01:44	1666996	5428677	-0150	Dec 28	04:23:43	012121	LUN	Dec.	-0.2457	2.4104	1.4043	331	211	085	23.4N	14.1W	15 10	150 B.C.E.
09205	Jun	21	07:42:22	1667172	8210890	-0149	Jun 21	11:04:19	012115	LUN	Asc.	0.3857	2.1513	1.1494	333	206	058	22.6N	116.6W	13 04	149 B.C.E.
09206	Dec	16	09:40:20	1667350	9030086	-0149	Dec 16	13:02:08	012109	LUN	Dec.	-0.9814	1.0901	0.0252	282	038	---	22.6N	145.2W	14 10	149 B.C.E.
09207	May	12	14:20:17	1667498	9074153	-0148	May 12	17:42:00	012104	LUN	Asc.	-1.3860	0.2856	-0.6562	139	---	---	18.7S	142.9E	13 02	148 B.C.E.
09208	Jun	10	21:11:14	1667527	3827960	-0148	Jun 10	00:32:57	012104	LUN	Asc.	1.1117	0.7946	-0.1586	224	---	---	21.8S	40.7E	14 03	148 B.C.E.
09209	Nov	05	14:37:38	1667675	1511356	-0148	Nov 05	18:59:17	012099	LUN	Dec.	1.3644	0.4067	-0.6968	193	---	---	16.4N	122.1E	14 08	148 B.C.E.
09210	May	02	07:27:31	1667852	8107780	-0147	May 02	10:49:04	012093	LUN	Dec.	-0.6751	1.5954	0.6427	290	154	---	14.9S	113.4W	14 02	147 B.C.E.
09211	Oct	25	16:52:11	1668029	2029009	-0147	Oct 25	20:13:40	012088	LUN	Dec.	0.6507	1.6968	0.6318	329	173	---	11.9N	103.6E	13 08	147 B.C.E.
09212	Apr	21	15:15:05	1668207	3854715	-0146	Apr 21	00:36:24	012082	LUN	Asc.	0.0728	2.7248	1.7242	342	222	101	10.6S	40.6E	15 02	146 B.C.E.
09213	Oct	15	01:15:49	1668383	5526552	-0146	Oct 15	04:37:08	012077	LUN	Dec.	-0.0782	2.7172	1.7118	335	217	099	7.2N	21.8W	13 08	146 B.C.E.
09214	Apr	10	04:07:21	1668561	6717738	-0145	Apr 10	07:28:31	012071	LUN	Asc.	0.8678	1.2936	0.2382	305	115	---	5.9S	61.3W	14 01	145 B.C.E.
09215	Oct	03	15:38:37	1668738	1518225	-0145	Oct 03	18:59:43	012065	LUN	Dec.	-0.7557	1.4545	0.4881	279	136	---	2.3N	123.3E	14 07	145 B.C.E.
09216	Feb	28	12:45:25	1668886	0315350	-0144	Feb 28	16:06:25	012061	LUN	Asc.	-1.2931	0.5243	-0.5528	214	---	---	7.9N	172.2E	13 12	144 B.C.E.
09217	Aug	24	16:55:21	1669063	4134419	-0144	Aug 24	01:16:17	012056	LUN	Dec.	1.1990	0.6497	-0.3339	210	---	---	11.2S	31.2E	14 06	144 B.C.E.
09218	Sep	23	07:41:44	1669092	8206461	-0144	Sep 23	11:02:40	012055	LUN	Dec.	-1.4344	0.2115	-0.7596	122	---	---	2.6S	116.5W	14 07	144 B.C.E.
09219	Feb	17	17:00:59	1669240	2090182	-0144	Feb 17	20:21:51	012050	LUN	Asc.	-0.5272	1.9069	0.8746	330	191	---	12.5N	109.0E	14 12	143 B.C.E.
09220	Aug	14	08:13:14	1669417	8425203	-0143	Aug 14	11:33:56	012044	LUN	Dec.	0.5027	1.9538	0.9180	336	197	---	15.4S	122.7W	14 05	143 B.C.E.
09221	Feb	07	04:22:02	1669594	6819622	-0142	Feb 07	07:42:42	012039	LUN	Asc.	0.2088	2.4660	1.4837	325	208	089	16.6N	61.0W	13 11	142 B.C.E.
09222	Aug	03	11:28:05	1669791	9778309	-0142	Aug 03	14:48:37	012033	LUN	Dec.	-0.2465	2.4431	1.3691	369	228	089	19.1S	171.2W	14 05	142 B.C.E.
09223	Jan	27	19:59:07	1669949	3327228	-0141	Jan 27	23:19:35	012028	LUN	Asc.	0.8835	1.2187	0.2549	262	098	---	20.2N	64.6E	14 11	141 B.C.E.
09224	Jul	22	11:47:09	1670125	9910758	-0141	Jul 22	15:07:32	012022	LUN	Dec.	-0.9859	1.0823	0.0162	290	031	---	22.2S	176.1W	13 05	141 B.C.E.
09225	Dec	17	22:54:56	1670274	4548150	-0141	Dec 17	02:15:14	012018	LUN	Asc.	-1.1655	0.7311	-0.2918	228	---	---	22.5N	166.6E	15 10	141 B.C.E.
09226	Jun	12	06:28:31	1670450	7698068	-0140	Jun 12	09:48:44	012012	LUN	Dec.	0.9738	1.0639	0.0784	262	057	---	22.1S	98.4W	13 03	140 B.C.E.
09227	Dec	07	05:22:50	1670628	7241918	-0140	Dec 07	08:42:55	012006	LUN	Asc.	-0.5137	1.9563	0.8755	347	197	---	22.1N	81.7W	14 09	140 B.C.E.
09228	Jun	01	21:24:45	1670805	3921835	-0139	Jun 01	00:44:47	012001	LUN	Dec.	0.1906	2.4806	1.5354	317	203	092	21.5S	37.1E	14 03	139 B.C.E.
09229	Nov	26	05:22:37	1670982	7240395	-0139	Nov 26	08:42:33	011996	LUN	Asc.	0.1645	2.6103	1.5032	378	232	097	20.8N	82.9W	14 09	139 B.C.E.
09230	May	22	14:42:11	1671160	1126220	-0138	May 22	18:02:00	011990	LUN	Dec.	-0.5497	1.8218	0.8766	298	172	---	20.2S	137.3E	14 03	138 B.C.E.
09231	Nov	15	03:23:23	1671336	7245680	-0138	Nov 15	08:43:08	011984	LUN	Asc.	0.8340	1.3683	0.2881	312	124	---	18.6N	84.1W	13 09	138 B.C.E.
09232	Apr	11	19:27:43	1671485	3109159	-0137	Apr 11	22:47:23	011980	LUN	Dec.	1.3131	0.4579	-0.5604	189	---	---	6.2S	68.8E	15 01	137 B.C.E.
09233	May	11	05:40:51	1671514	7366969	-0137	May 11	09:00:29	011979	LUN	Dec.	-1.3382	0.3953	-0.5900	171	---	---	18.2S	87.5W	15 02	137 B.C.E.
09234	Oct	04	23:44:45	1671661	4894101	-0137	Oct 04	03:04:20	011974	LUN	Asc.	-1.2816	0.5008	-0.4878	186	---	---	2.5N	2.7E	15 07	137 B.C.E.
09235	Nov	03	11:54:01	1671690	9958436	-0137	Nov 03	15:13:35	011974	LUN	Asc.	1.4615	0.1818	-0.8400	120	---	---	15.9N	176.6E	12 08	137 B.C.E.
09236	Apr	01	12:17:17	1671839	5085289	-0136	Apr 01	03:31:45	011969	LUN	Dec.	0.6001	1.7915	0.7231	343	187	---	2.7S	1.6W	14 01	136 B.C.E.
09237	Sep	24	15:09:13	1672016	1314056	-0136	Sep 24	18:28:39	011965	LUN	Asc.	-0.5762	1.7814	0.8199	296	169	---	1.2S	131.4E	13 07	136 B.C.E.
09238	Mar	21	05:24:29	1672193	5169973	-0135	Mar 21	03:43:48	011959	LUN	Dec.	-0.1390	2.6418	1.5647	373	233	101	1.1N	3.9W	14 13	135 B.C.E.
09239	Sep	14	13:35:31	1672370	7878585	-0135	Sep 14	10:13:42	011953	LUN	Asc.	0.1156	2.6355	1.6561	326	211	097	4.8S	104.5W	14 06	135 B.C.E.
09240	Mar	10	03:28:36	1672547	4648613	-0134	Mar 10	06:47:45	011948	LUN	Dec.	-0.8652	1.2902	0.2510	297	115	---	4.9N	49.3W	13 12	134 B.C.E.
09241	Sep	03	18:26:00	1672725	2680514	-0134	Sep 03	21:45:01	011942	LUN	Asc.	0.8739	1.2691	0.2403	290	111	---	8.3S	83.0E	15 06	134 B.C.E.
09242	Jan	29	03:28:12	1672872	6445792	-0133	Jan 29	06:47:10	011938	LUN	Dec.	1.1269	0.7772	-0.1966	222	---	---	20.0N	47.4W	13 11	133 B.C.E.
09243	Feb	27	13:36:17	1672902	0668683	-0133	Feb 27	16:55:14	011937	LUN	Dec.	-1.5274	0.0488	-0.9379	061	---	---	8.3N	159.2E	13 12	133 B.C.E.
09244	Jul	24	06:59:28	1673027	7912922	-0133	Jul 24	10:18:20	011932	LUN	Asc.	-1.2347	0.6305	-0.4447	234	---	---	22.0S	103.9W	14 05	133 B.C.E.
09245	Jan	17	19:24:11	1673249	3084619	-0132	Jan 17	22:42:58	011927	LUN	Dec.	0.4467	2.0226	1.0539	307	186	034	21.7N	72.7E	14 11	132 B.C.E.
09246	Jul	13	07:56:37	1673403	8309864	-0132	Jul 13	11:15:20	011921	LUN	Asc.	-0.4750	0.2136	0.9598	349	204	---	23.1S	118.8W	13 04	132 B.C.E.
09247	Jan	07	09:41:09	1673581	9035817	-0131	Jan 07	12:59:43	011915	LUN	Dec.	-0.2403	2.4207	1.4136	332	211	086	22.7N	142.7W	14 10	131 B.C.E.
09248	Jul	02	14:48:32	1673758	1170396	-0131	Jul 02	18:07:04	011910	LUN	Asc.	0.3081	2.2925	1.2929	335	212	077	23.3S	137.5E	12 04	131 B.C.E.
09249	Dec	27	18:00:47	1673936	2505461	-0131	Dec 27	21:19:12	011905	LUN	Dec.	-0.9793	1.0947	0.0283	283	040	---	22.8N	91.0E	15 10	131 B.C.E.
09250	May	23	21:49:36	1674083	4904437	-0130	May 24	01:07:56	011900	LUN	Asc.	-1.4555	0.1574	-0.7830	104	---	---	21.4S	30.5E	14 03	130 B.C.E.
09251	Jun	22	04:36:35	1674112	6920719	-0130	Jun 22	07:54:54	011899	LUN	Asc.	0.1367	0.9315	-0.0204	239	---	---	22.6S	70.2W	13 04	130 B.C.E.
09252	Nov	16	23:41:16	1674260	4869923	-0130	Nov 17	02:59:32	011895	LUN	Dec.	1.3699	0.3969	-0.7071	191	---	---	19.6N	1.6E	14 09	130 B.C.E.
09253	May	12	14:56:21	167443																	

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar				
											Pen.	Par.		Lat.	Lon.	Day	Month	Year		
09310	Aug 25	106 B.C.E.	01:23:46	1682942.5581766	-0106	Aug 25	04:37:37	011631	LTU	Dec.	-0.1251	2.6702	1.5875	375	234	102	12.5S	20.6W	14 06	106 B.C.E.
09311	Feb 18	105 B.C.E.	12:56:24	1683120.0391611	-0105	Feb 18	16:10:49	011625	LPU	Asc.	0.8357	1.3038	0.3450	268	114	---	13.6N	170.5E	14 12	105 B.C.E.
09312	Aug 13	105 B.C.E.	01:35:58	1683296.5666406	-0105	Aug 13	10:49:38	011620	LPU	Dec.	-0.8507	1.3315	0.2635	312	121	---	16.7S	23.1W	13 05	105 B.C.E.
09313	Jan 08	104 B.C.E.	16:02:41	1683445.1685293	-0104	Jan 08	19:16:15	011615	LNN	Asc.	-1.1839	0.6988	-0.3271	225	---	---	21.5N	122.1E	15 10	104 B.C.E.
09314	Feb 07	104 B.C.E.	04:11:58	1683474.6749811	-0104	Feb 07	07:25:33	011614	LNN	Asc.	-1.5541	0.0017	-0.9887	011	---	---	17.7N	58.2W	14 11	104 B.C.E.
09315	Jul 03	104 B.C.E.	20:55:59	1683621.3722149	-0104	Jul 04	00:09:29	011610	LNN	Dec.	-1.1139	0.8045	-0.1764	233	---	---	22.4S	45.8E	13 04	104 B.C.E.
09316	Aug 02	104 B.C.E.	07:01:17	1683650.7925634	-0104	Aug 02	10:14:46	011609	LNN	Dec.	-1.5380	0.0435	-0.9712	060	---	---	20.4S	104.3W	13 05	104 B.C.E.
09317	Dec 28	104 B.C.E.	21:51:11	1683799.4105493	-0104	Dec 29	01:04:35	011605	LPU	Asc.	-0.5262	1.9347	0.8512	348	196	---	23.1N	33.8E	15 10	104 B.C.E.
09318	Jun 23	103 B.C.E.	12:20:39	1683976.0143366	-0103	Jun 23	15:33:59	011600	LTU	Dec.	-0.3391	2.2075	1.2637	311	194	071	23.3S	174.0E	13 04	103 B.C.E.
09319	Dec 17	103 B.C.E.	21:31:50	1684153.3971104	-0103	Dec 18	00:45:05	011594	LTU	Asc.	0.1530	2.6309	1.5248	378	232	098	23.7N	37.1E	14 10	103 B.C.E.
09320	Jun 13	102 B.C.E.	05:35:04	1684330.7326801	-0102	Jun 13	08:48:12	011589	LTU	Asc.	-0.4016	2.0951	-0.1467	310	190	055	23.5S	85.2W	14 03	102 B.C.E.
09321	Dec 06	102 B.C.E.	21:59:20	1684507.4162011	-0102	Dec 07	01:12:24	011583	LPU	Asc.	0.8227	1.3867	0.3109	312	128	---	23.3N	28.7E	13 09	102 B.C.E.
09322	May 03	101 B.C.E.	09:35:05	1684655.8993593	-0101	May 03	12:48:02	011578	LNN	Dec.	-1.4649	0.1809	-0.8404	123	---	---	13.5S	144.6W	14 02	101 B.C.E.
09323	Jun 01	101 B.C.E.	19:57:10	1684685.3313701	-0101	Jun 01	23:10:08	011578	LNN	Dec.	-1.1955	0.6601	-0.3311	217	---	---	22.9S	58.6E	15 03	101 B.C.E.
09324	Oct 26	101 B.C.E.	16:57:45	1684843.2067687	-0101	Oct 26	20:10:39	011574	LNN	Asc.	-1.3004	0.4661	-0.5224	180	---	---	10.8N	102.9E	13 08	101 B.C.E.
09325	Nov 25	101 B.C.E.	05:13:34	1684861.7177511	-0101	Nov 25	08:26:27	011573	LNN	Asc.	-1.4505	0.2055	-0.8123	126	---	---	22.0N	81.1W	13 09	101 B.C.E.
09326	Apr 22	100 B.C.E.	13:41:01	1685010.1070151	-0100	Apr 22	16:53:48	011568	LPU	Dec.	0.7504	1.5149	0.4481	328	154	---	10.6S	154.3E	14 02	100 B.C.E.
09327	Oct 16	100 B.C.E.	08:21:58	1685186.8485865	-0100	Oct 16	11:34:41	011563	LPU	Asc.	-0.6137	1.7150	0.7485	293	164	---	7.5N	128.1W	13 08	100 B.C.E.
09328	Apr 11	99 B.C.E.	14:04:44	1685364.0866195	-0099	Apr 11	17:17:23	011558	LTU	Dec.	-0.0017	2.8894	1.8210	372	235	106	7.2S	149.0E	13 01	99 B.C.E.
09329	Oct 05	99 B.C.E.	23:35:55	1685541.4832739	-0099	Oct 06	02:48:26	011553	LTU	Asc.	0.0661	2.7316	1.7418	329	214	099	3.9N	3.6E	14 07	99 B.C.E.
09330	Mar 31	98 B.C.E.	18:10:52	1685718.2575456	-0098	Mar 31	21:23:20	011547	LPU	Dec.	-0.7488	1.4974	0.4711	309	151	---	3.6S	88.2E	13 01	98 B.C.E.
09331	Sep 25	98 B.C.E.	10:06:16	1685895.9210185	-0098	Sep 25	13:18:38	011543	LPU	Asc.	0.8108	1.3914	0.3496	303	132	---	0.2N	153.6W	14 07	98 B.C.E.
09332	Feb 19	97 B.C.E.	20:16:32	1686072.3254656	-0097	Feb 19	23:28:50	011538	LNN	Dec.	-1.1743	0.6858	-0.2793	210	---	---	13.4N	60.7E	14 12	97 B.C.E.
09333	Mar 20	97 B.C.E.	05:24:40	1686220.7591163	-0097	Mar 20	08:36:58	011537	LNN	Dec.	-1.4328	0.2165	-0.7587	126	---	---	0.0S	79.6W	13 13	97 B.C.E.
09334	Aug 14	97 B.C.E.	03:37:08	1686602.3254656	-0097	Aug 14	23:49:20	011533	LNN	Asc.	-1.3669	0.3911	-0.6905	189	---	---	16.5S	51.9E	14 05	97 B.C.E.
09335	Sep 13	97 B.C.E.	13:28:25	1686250.0613975	-0097	Sep 13	16:40:36	011532	LNN	Asc.	1.5681	0.9232	-1.0609	047	---	---	3.6S	156.3E	13 06	97 B.C.E.
09336	Feb 08	96 B.C.E.	12:32:18	1686398.0224250	-0096	Feb 08	15:44:24	011527	LPU	Dec.	-0.4878	1.0455	0.9801	304	182	---	16.2N	176.6E	14 11	96 B.C.E.
09337	Aug 03	96 B.C.E.	21:45:46	1686574.4067800	-0096	Aug 04	00:57:49	011522	LPU	Asc.	-0.6134	1.7597	0.7060	335	182	---	19.1S	34.6E	13 05	96 B.C.E.
09338	Jan 29	95 B.C.E.	02:38:06	1686752.4067873	-0095	Jan 29	05:50:00	011517	LTU	Dec.	-0.2129	2.4714	1.4633	335	214	090	18.6N	35.3W	15 11	95 B.C.E.
09339	Jul 24	95 B.C.E.	05:20:54	1686928.7228468	-0095	Jul 24	08:32:48	011512	LTU	Asc.	0.1667	2.5504	1.5537	338	218	095	20.8S	79.6W	13 05	95 B.C.E.
09340	Jan 18	94 B.C.E.	10:23:11	1687106.9327677	-0094	Jan 18	13:34:57	011506	LPU	Dec.	-0.9618	1.1274	0.0596	288	058	---	20.4N	152.4W	14 11	94 B.C.E.
09341	Jul 13	94 B.C.E.	19:39:23	1687283.3190185	-0094	Jul 13	22:51:05	011501	LPU	Asc.	0.8948	1.1916	0.2403	261	092	---	21.7S	65.2E	14 04	94 B.C.E.
09342	Dec 08	94 B.C.E.	15:53:54	1687431.1624318	-0094	Dec 08	19:05:30	011496	LNN	Dec.	-1.3768	0.3835	-0.7189	187	---	---	24.0N	102.5E	14 09	94 B.C.E.
09343	Jun 03	93 B.C.E.	05:42:51	1687608.7380870	-0093	Jun 03	08:54:21	011491	LPU	Asc.	-0.8992	1.1866	0.2293	264	092	---	22.9S	87.5W	14 03	93 B.C.E.
09344	Nov 26	93 B.C.E.	17:55:39	1687785.2469748	-0093	Nov 26	21:07:06	011486	LPU	Dec.	-0.6595	1.6781	0.6182	325	170	---	21.6N	88.9E	13 09	93 B.C.E.
09345	May 23	92 B.C.E.	18:31:41	1687967.2719977	-0092	May 23	21:42:59	011481	LTU	Asc.	-0.1544	2.5786	1.5711	345	222	098	20.2S	80.2E	15 03	92 B.C.E.
09346	Nov 16	92 B.C.E.	03:14:04	1688139.6347679	-0092	Nov 16	06:25:22	011476	LPU	Dec.	-0.0585	2.7518	1.7495	332	216	099	18.3N	51.4W	13 09	92 B.C.E.
09347	May 13	91 B.C.E.	00:12:01	1688317.5083407	-0091	May 13	03:23:10	011470	LPU	Asc.	0.6385	1.7153	0.6581	337	180	---	16.9S	4.6W	14 02	91 B.C.E.
09348	Nov 05	91 B.C.E.	17:53:29	1688494.2544720	-0091	Nov 05	21:04:34	011465	LPU	Dec.	-0.7218	1.5187	0.5482	283	144	---	14.5N	88.5E	14 08	91 B.C.E.
09349	Apr 02	90 B.C.E.	10:02:39	1688641.9185024	-0090	Apr 02	13:13:38	011460	LNN	Asc.	-1.4521	0.2244	-0.8366	142	---	---	4.9S	150.0W	13 01	90 B.C.E.
09350	May 02	90 B.C.E.	05:55:08	1688867.1382910	-0090	May 02	04:06:08	011459	LNN	Asc.	1.3962	0.3308	-0.7379	174	---	---	12.9S	14.8W	14 02	90 B.C.E.
09351	Sep 26	90 B.C.E.	22:09:40	1688819.4233770	-0090	Sep 27	01:20:36	011456	LNN	Dec.	-1.3078	0.4591	-0.5422	182	---	---	1.4N	25.4E	14 07	90 B.C.E.
09352	Oct 26	90 B.C.E.	09:24:23	1688848.8919340	-0090	Oct 26	12:35:18	011455	LNN	Dec.	-1.3961	0.2882	-0.6956	143	---	---	10.3N	144.0W	14 08	90 B.C.E.
09353	Mar 21	89 B.C.E.	16:00:32	1688996.1670341	-0089	Mar 21	19:11:23	011450	LPU	Asc.	-0.6547	1.6632	0.6506	313	170	---	0.1N	121.8E	14 01	89 B.C.E.
09354	Sep 15	89 B.C.E.	06:47:23	1689173.7829088	-0089	Sep 15	09:58:07	011445	LPU	Dec.	0.6411	1.7095	0.6544	329	175	---	3.6S	103.0W	14 07	89 B.C.E.
09355	Mar 11	88 B.C.E.	04:50:18	1689350.7015956	-0088	Mar 11	08:00:58	011439	LTU	Asc.	0.1023	2.6535	1.6868	323	209	097	4.9N	69.5W	13 13	88 B.C.E.
09356	Sep 04	88 B.C.E.	08:34:34	1689527.8573375	-0088	Sep 04	11:45:07	011434	LTU	Dec.	-0.0756	2.7632	1.6762	376	235	104	8.5S	128.9W	14 06	88 B.C.E.
09357	Feb 28	87 B.C.E.	21:11:32	1689705.3830048	-0087	Mar 01	00:21:59	011428	LPU	Asc.	0.8012	1.3660	0.4096	273	124	---	9.6N	46.2E	14 12	87 B.C.E.
09358	Aug 24	87 B.C.E.	08:45:06	1689881.8646507	-0087	Aug 24	11:55:30	011424	LPU	Dec.	-0.7938	1.4364	0.3672	319	140	---	13.2S	130.7W	13 06	87 B.C.E.
09359	Jan 20	86 B.C.E.	00:26:26	1690000.5183563	-0086	Jan 20	03:36:44	011419	LNN	Asc.	-1.2003	0.6692	-0.3575	222	---	---	19.7N	3.0W	15 11	86 B.C.E.
09360	Feb 18	86 B.C.E.	12:25:35																	

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date of Creation	Date on the Calendar					
09417	Dec 16	65 B.C.E.	22:39:23	1698032.4440182	-0065	Dec 17	01:45:48	011185	LNN	Asc.	1.4401	0.2214	-0.7901	130	---	---	24.9N	20.0E	13 10	65 B.C.E.
09418	May 14	64 B.C.E.	02:43:53	1698180.6138111	-0064	May 14	05:50:35	011181	LPU	Dec.	0.9182	1.2067	0.1404	303	091	---	17.1S	42.4W	14 02	64 B.C.E.
09419	Nov 07	64 B.C.E.	01:59:20	1698357.5828724	-0064	Nov 07	05:05:35	011175	LPU	Asc.	-0.6307	1.6860	0.7154	292	161	---	15.2N	32.8W	14 08	64 B.C.E.
09420	May 03	63 B.C.E.	03:21:56	1698534.6402326	-0063	May 03	06:28:08	011170	LPU	Dec.	0.1563	2.6017	1.5412	368	231	100	14.5S	51.8W	13 02	63 B.C.E.
09421	Oct 27	63 B.C.E.	16:42:14	1698712.1960001	-0063	Oct 27	19:48:17	011165	LPU	Asc.	0.0397	2.7849	1.7855	332	216	099	12.3N	106.1E	15 08	63 B.C.E.
09422	Apr 22	62 B.C.E.	08:31:26	1698888.8551569	-0062	Apr 22	11:37:27	011160	LPU	Dec.	-0.6102	1.7457	0.7311	321	179	---	11.6S	128.8W	13 02	62 B.C.E.
09423	Oct 17	62 B.C.E.	02:14:00	1699066.5930519	-0062	Oct 17	05:19:54	011155	LPU	Asc.	0.7731	1.4666	0.4129	311	143	---	8.9N	36.8W	14 08	62 B.C.E.
09424	Mar 12	61 B.C.E.	12:33:16	1699214.0231058	-0061	Mar 12	15:39:07	011151	LNN	Dec.	1.2490	0.5443	-0.4122	188	---	---	5.3N	175.2E	13 13	61 B.C.E.
09425	Apr 10	61 B.C.E.	20:45:53	1699243.3651976	-0061	Apr 10	23:51:44	011151	LNN	Dec.	-1.3136	0.4301	-0.5349	172	---	---	8.3S	48.1E	14 01	61 B.C.E.
09426	Sep 05	61 B.C.E.	10:49:30	1699390.9510388	-0061	Sep 05	13:55:16	011146	LNN	Asc.	-1.4699	0.2054	-0.8828	139	---	---	9.0S	162.1W	13 06	61 B.C.E.
09427	Oct 05	61 B.C.E.	04:37:41	1699420.6928404	-0061	Oct 05	07:43:26	011145	LNN	Asc.	1.5100	0.1346	-0.9588	113	---	---	5.1N	72.5W	14 07	61 B.C.E.
09428	Mar 02	60 B.C.E.	05:07:50	1699568.7137702	-0060	Mar 02	08:13:30	011141	LPU	Dec.	0.5552	1.8202	0.8580	300	173	---	8.7N	73.0W	14 12	60 B.C.E.
09429	Aug 25	60 B.C.E.	12:11:02	1699745.0076664	-0060	Aug 25	15:16:39	011136	LPU	Asc.	-0.7245	1.5561	0.5019	322	158	---	12.5S	177.8E	13 06	60 B.C.E.
09430	Feb 19	59 B.C.E.	19:00:07	1699923.2917443	-0059	Feb 19	22:05:35	011131	LPU	Dec.	-0.1598	2.5691	1.5607	338	217	095	11.9N	79.2E	15 12	59 B.C.E.
09431	Apr 14	59 B.C.E.	20:25:23	1700099.3509561	-0059	Apr 14	23:30:51	011126	LPU	Asc.	0.0485	2.7668	1.7713	337	219	101	15.4S	54.3E	13 05	59 B.C.E.
09432	Feb 09	58 B.C.E.	02:12:11	1700273.9917989	-0058	Feb 09	05:17:32	011121	LPU	Dec.	-0.9200	1.2040	0.1366	297	088	---	14.9N	28.9W	15 11	58 B.C.E.
09433	Aug 04	58 B.C.E.	11:03:47	1700453.5609610	-0058	Aug 04	14:09:02	011115	LPU	Asc.	0.7691	1.4229	0.4702	277	132	---	17.7S	165.4W	13 05	58 B.C.E.
09434	Dec 30	58 B.C.E.	08:04:02	1700601.8361339	-0058	Dec 30	11:09:14	011112	LNN	Dec.	1.3866	0.3632	-0.7345	182	---	---	24.8N	119.2W	13 10	58 B.C.E.
09435	Jun 24	57 B.C.E.	20:25:14	1700779.3508539	-0057	Jun 24	23:30:20	011106	LNN	Asc.	-1.0518	0.9098	-0.0536	240	---	---	24.7S	53.1E	15 04	57 B.C.E.
09436	Jul 24	57 B.C.E.	04:00:17	1700808.6668582	-0057	Jul 24	07:05:23	011106	LNN	Asc.	1.4761	0.1249	-0.8261	094	---	---	19.4S	59.9W	14 05	57 B.C.E.
09437	Dec 18	57 B.C.E.	10:49:08	1701664.9889395	-0057	Dec 18	13:54:10	011101	LPU	Dec.	0.6600	1.6739	0.6207	322	169	---	24.2N	162.0W	13 10	57 B.C.E.
09438	Jun 14	56 B.C.E.	08:23:33	1701133.8496887	-0056	Jun 14	11:28:27	011096	LPU	Asc.	-0.3168	2.2843	1.2694	342	214	076	23.6S	127.1W	14 03	56 B.C.E.
09439	Dec 07	56 B.C.E.	20:50:43	1701310.3685497	-0056	Dec 07	23:55:35	011091	LPU	Dec.	-0.0571	2.7521	1.7543	330	215	099	22.7N	46.3E	13 09	56 B.C.E.
09440	Jun 03	55 B.C.E.	13:11:02	1701488.0493325	-0055	Jun 03	16:15:46	011085	LPU	Asc.	0.4680	2.0296	0.9694	354	207	---	21.6S	160.6E	14 03	55 B.C.E.
09441	Nov 27	55 B.C.E.	11:44:04	1701664.9889395	-0055	Nov 27	14:48:45	011081	LPU	Dec.	-0.7166	1.5287	0.5573	283	145	---	20.3N	178.1W	13 09	55 B.C.E.
09442	May 23	54 B.C.E.	13:50:35	1701842.0767917	-0054	May 23	16:55:12	011076	LNN	Asc.	1.2273	0.6384	-0.4257	234	---	---	18.9S	150.6E	13 03	54 B.C.E.
09443	Oct 18	54 B.C.E.	14:52:54	1701990.1200719	-0054	Oct 18	17:57:25	011071	LNN	Dec.	1.3492	0.3887	-0.6237	170	---	---	10.1N	133.3E	14 08	54 B.C.E.
09444	Nov 17	54 B.C.E.	02:56:58	1702019.6228916	-0054	Nov 17	06:01:28	011070	LNN	Dec.	-1.3931	0.2971	-0.6936	146	---	---	17.2N	46.9W	14 09	54 B.C.E.
09445	Apr 12	53 B.C.E.	06:47:46	1702166.7831699	-0053	Apr 12	09:52:13	011066	LPU	Asc.	-0.7697	1.4458	0.4455	297	144	---	8.4S	102.1W	13 01	53 B.C.E.
09446	Oct 06	53 B.C.E.	22:26:47	1702344.4352710	-0053	Oct 06	01:31:08	011061	LPU	Dec.	0.6983	1.6106	0.5435	326	163	---	5.2N	20.6E	14 07	53 B.C.E.
09447	Apr 01	52 B.C.E.	20:33:11	1702511.3563802	-0052	Apr 01	23:37:27	011055	LPU	Asc.	-0.0009	2.8350	1.8776	268	100	3	3.7S	52.8E	14 01	52 B.C.E.
09448	Apr 25	52 B.C.E.	23:22:08	1702698.4737017	-0052	Apr 25	02:26:19	011051	LPU	Dec.	0.0014	2.9035	1.8085	378	236	105	0.1N	7.7E	14 07	52 B.C.E.
09449	Mar 22	51 B.C.E.	13:19:09	1702876.0549659	-0051	Mar 22	16:23:15	011046	LPU	Asc.	0.7141	1.5236	0.5715	283	144	---	1.1N	162.5E	14 01	51 B.C.E.
09450	Sep 14	51 B.C.E.	23:33:56	1703052.4818955	-0051	Sep 14	02:37:57	011041	LPU	Dec.	-0.7030	1.6041	0.5328	330	164	---	5.0S	5.7E	13 07	51 B.C.E.
09451	Feb 10	50 B.C.E.	16:49:35	1703201.2011018	-0050	Feb 10	19:53:32	011036	LNN	Asc.	-1.2499	0.5785	-0.4489	209	---	---	14.0N	111.8E	15 12	50 B.C.E.
09452	Mar 12	50 B.C.E.	04:25:44	1703230.6845378	-0050	Mar 12	07:29:39	011035	LNN	Asc.	1.4658	0.1633	-0.8265	111	---	---	5.9N	63.0W	15 13	50 B.C.E.
09453	Aug 05	50 B.C.E.	19:22:45	1703377.3074656	-0050	Aug 05	22:26:37	011031	LNN	Dec.	1.2915	0.4773	-0.5008	183	---	---	16.8S	69.9E	13 05	50 B.C.E.
09454	Sep 04	50 B.C.E.	05:51:08	1703406.7438381	-0050	Sep 04	08:54:58	011030	LNN	Dec.	-1.3775	0.3374	-0.6762	162	---	---	9.9S	87.6W	13 06	50 B.C.E.
09455	Jan 30	49 B.C.E.	21:48:02	1703555.4083556	-0049	Jan 30	00:51:48	011027	LPU	Asc.	-0.5769	1.8413	0.7585	346	189	---	17.8N	37.2E	15 11	49 B.C.E.
09456	Jul 25	49 B.C.E.	11:11:25	1703731.9662636	-0049	Jul 25	14:15:07	011021	LPU	Dec.	0.5398	1.8405	0.8941	298	173	---	20.0S	167.2W	13 05	49 B.C.E.
09457	Jan 18	48 B.C.E.	21:21:52	1703909.3901805	-0048	Jan 18	00:25:28	011016	LPU	Asc.	0.1165	2.6942	1.5955	377	233	101	21.1N	43.2E	14 11	48 B.C.E.
09458	Jul 15	48 B.C.E.	04:00:18	1704086.6668793	-0048	Jul 15	07:03:48	011011	LPU	Dec.	-0.1888	2.4905	1.5324	321	206	092	22.5S	59.7W	14 04	48 B.C.E.
09459	Jan 07	47 B.C.E.	22:51:03	1704263.4521166	-0047	Jan 07	01:54:30	011006	LPU	Asc.	0.8001	1.4220	0.3584	311	136	---	23.5N	19.9E	13 10	47 B.C.E.
09460	Jul 04	47 B.C.E.	17:10:58	1704441.2159437	-0047	Jul 04	20:14:18	011000	LPU	Dec.	-0.9790	1.0640	0.0595	268	056	---	24.3S	102.1E	15 04	47 B.C.E.
09461	Nov 28	47 B.C.E.	19:25:18	1704588.3092357	-0047	Nov 28	22:28:35	010997	LNN	Asc.	-1.3024	0.4610	-0.5246	178	---	---	20.0N	67.0E	13 09	47 B.C.E.
09462	Dec 28	47 B.C.E.	07:20:58	1704617.8062233	-0047	Dec 28	10:24:13	010996	LNN	Asc.	1.4332	0.2321	-0.7755	132	---	---	25.0N	108.9W	13 10	47 B.C.E.
09463	May 25	46 B.C.E.	09:09:54	1704765.8818740	-0046	May 25	12:13:05	010992	LNT	Dec.	1.0056	1.0665	-0.0199	288	---	---	19.5S	139.0W	14 03	46 B.C.E.
09464	Nov 18	46 B.C.E.	10:53:05	1704942.9535339	-0046	Nov 18	13:56:11	010986	LPU	Asc.	-0.6350	1.6788	0.7066	292	161	---	18.3N	165.9W	13 09	46 B.C.E.
09465	May 13	45 B.C.E.	09:56:17	1705119.9140809	-0045	May 13	12:59:19	010981	LPU	Dec.	0.2397	2.4470	1.3901	365	227	090	17.6S	150.8W	13 02	45 B.C.E.
09466	Nov 07	44 B.C.E.	01:22:06	1705297.5570107	-0045	Nov 07	04:24:59	010976	LPU	Dec.	0.0330	2.7993	1.7957	334	216	100	16.0N	23.8W	14 08	44 B.C.E.
09467	May 02	44 B.C.E.	15:35:43	1705474.1498014	-0044	May 02	18:38:36	010971	LPU	Dec.	-0.5344	1.8822	0.8730	326	190	---				

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Month	Day	Hour	Minute	Month	Day							Hour	Minute	Pen.	Par.	Lat.	Lon.	Day	Month	Year	Day	Month	Year			
09524	Jan	20	21	B. C. E.	23:56:25	1713772.4975153	-0021	Jan	21	02:55:22	010737	LNN	Dec.	1.4111	0.3142	-0.7758	169	---	---	21.9N	5.1E	14	11	21	B. C. E.		
09525	Feb	19	21	B. C. E.	17:48:59	1713802.2423491	-0021	Feb	19	20:47:55	010737	LNN	Dec.	-1.5749	0.0149	-1.0767	037	---	---	10.9N	96.4E	14	12	21	B. C. E.		
09526	Jul	16	21	B. C. E.	11:13:47	1713949.9679001	-0021	Jul	16	14:12:39	010732	LNN	Asc.	-1.1958	0.6499	-0.3222	210	---	---	23.2S	167.7W	14	04	21	B. C. E.		
09527	Aug	14	21	B. C. E.	19:34:26	1713979.3155772	-0021	Aug	14	22:33:17	010731	LNN	Asc.	1.3713	0.3213	-0.6380	149	---	---	14.0S	66.5E	14	05	21	B. C. E.		
09528	Jan	09	20	B. C. E.	03:35:35	1714126.6497121	-0020	Jan	09	06:34:23	010727	LPU	Dec.	0.6692	1.6523	0.6086	318	167	---	---	23.2N	50.9W	13	10	20	B. C. E.	
09529	Jul	05	20	B. C. E.	22:13:33	1714304.4260775	-0020	Jul	05	01:12:13	010722	LPU	Dec.	-0.4762	1.9966	0.9723	336	200	---	---	23.7S	26.6E	15	04	20	B. C. E.	
09530	Dec	29	20	B. C. E.	14:24:36	1714481.1004111	-0020	Dec	29	17:23:15	010718	LTU	Asc.	-0.0515	2.7592	1.7678	328	213	099	---	---	23.5N	145.5E	13	10	20	B. C. E.
09531	Jun	25	19	B. C. E.	02:06:47	1714658.5880390	-0019	Jun	25	05:05:19	010713	LTU	Asc.	0.2961	2.3475	1.2827	366	225	080	---	---	23.4S	32.4W	14	04	19	B. C. E.
09532	Dec	19	19	B. C. E.	07:57:27	1714835.7339900	-0019	Dec	19	08:35:24	010707	LPU	Dec.	-0.7137	1.5337	0.5630	284	146	---	---	22.9N	84.0W	14	10	19	B. C. E.	
09533	Jun	14	18	B. C. E.	02:43:14	1715012.6133538	-0018	Jun	14	05:41:36	010702	LNN	Asc.	1.0525	0.9577	-0.1033	276	---	---	22.3S	42.1W	13	03	18	B. C. E.		
09534	Nov	09	18	B. C. E.	07:57:27	1715160.8315639	-0018	Nov	09	10:55:44	010698	LNN	Dec.	1.3710	0.3535	-0.6685	164	---	---	17.8N	122.9W	14	08	18	B. C. E.		
09535	Dec	08	18	B. C. E.	20:36:46	1715190.3588637	-0018	Dec	08	23:35:03	010697	LNN	Dec.	-1.3983	0.2903	-0.7054	145	---	---	21.4N	49.8E	15	09	18	B. C. E.		
09536	May	03	17	B. C. E.	21:17:36	1715337.3872185	-0017	May	03	00:15:50	010693	LPU	Asc.	-0.7137	1.1971	0.2074	275	098	---	---	16.0S	39.0E	13	02	17	B. C. E.	
09537	Oct	28	17	B. C. E.	14:31:43	1715515.1035556	-0017	Oct	28	17:29:51	010689	LPU	Dec.	0.7313	1.5553	0.4779	325	156	---	---	13.5N	138.6E	14	08	17	B. C. E.	
09538	Apr	23	16	B. C. E.	11:52:09	1715691.9945517	-0016	Apr	23	14:50:14	010684	LTU	Asc.	-0.1259	2.6018	1.6520	319	205	096	---	---	11.9S	178.9W	13	02	16	B. C. E.
09539	Oct	17	16	B. C. E.	14:45:11	1715869.1147161	-0016	Oct	17	17:43:10	010678	LTU	Dec.	0.0488	2.8196	1.7183	379	235	105	---	---	8.8N	135.6E	13	08	16	B. C. E.
09540	Apr	13	15	B. C. E.	04:55:44	1716046.7053685	-0015	Apr	13	07:53:36	010673	LPU	Asc.	0.6027	1.7267	0.7773	294	165	---	---	7.4S	73.7W	14	01	15	B. C. E.	
09541	Oct	06	15	B. C. E.	15:03:00	1716223.1270877	-0015	Oct	06	18:00:50	010668	LPU	Dec.	-0.6424	1.7160	0.6433	335	176	---	---	3.8N	131.9E	13	07	15	B. C. E.	
09542	Mar	04	14	B. C. E.	08:34:05	1716371.6570016	-0014	Mar	04	11:31:49	010664	LNN	Asc.	-1.3268	0.4375	-0.5900	186	---	---	6.2N	125.3W	15	12	14	B. C. E.		
09543	Apr	02	14	B. C. E.	19:48:35	1716401.3254002	-0014	Apr	02	22:46:17	010663	LNN	Asc.	1.3745	0.3311	-0.6592	157	---	---	2.7S	64.3E	15	01	14	B. C. E.		
09544	Aug	27	14	B. C. E.	11:00:30	1716547.9586773	-0014	Aug	27	13:58:09	010660	LNN	Dec.	1.3800	0.3149	-0.6634	150	---	---	10.0S	165.3W	13	06	14	B. C. E.		
09545	Sep	25	14	B. C. E.	21:53:17	1716577.4119983	-0014	Sep	25	00:50:56	010659	LNN	Dec.	-1.3062	0.4682	-0.5453	187	---	---	1.2S	30.3E	13	07	14	B. C. E.		
09546	Feb	21	13	B. C. E.	13:00:42	1717036.0421512	-0013	Feb	21	15:58:16	010655	LPU	Asc.	-0.6436	1.7175	0.6374	340	178	---	---	10.9N	168.9E	14	12	13	B. C. E.	
09547	Aug	16	12	B. C. E.	02:54:21	1716902.6210714	-0013	Aug	16	05:51:50	010649	LPU	Dec.	0.6492	1.6420	0.6914	288	156	---	---	14.2S	43.1W	14	05	13	B. C. E.	
09548	Feb	09	12	B. C. E.	12:41:25	1717080.2827627	-0012	Feb	09	15:38:50	010644	LTU	Asc.	0.0644	2.7857	1.6950	376	234	104	---	---	15.3N	174.1E	13	11	12	B. C. E.
09549	Aug	05	12	B. C. E.	19:15:36	1717257.3024996	-0012	Aug	05	22:12:53	010639	LTU	Dec.	-0.0657	2.7210	1.7538	325	211	099	---	---	17.9S	71.9E	15	11	12	B. C. E.
09550	Jan	29	11	B. C. E.	15:03:17	1717434.1272813	-0012	Jan	29	18:00:33	010635	LPU	Asc.	0.7637	1.4832	0.4307	312	146	---	---	19.2N	138.6E	13	11	11	B. C. E.	
09551	Jul	26	11	B. C. E.	07:29:48	1717611.8123665	-0011	Jul	26	10:26:58	010630	LPU	Dec.	-0.8465	1.3127	0.2970	292	122	---	---	21.2S	111.6W	14	05	11	B. C. E.	
09552	Dec	20	11	B. C. E.	13:09:59	1717759.0485982	-0011	Dec	20	16:07:05	010626	LNN	Asc.	-1.3011	0.4612	-0.5199	177	---	---	22.4N	163.1E	13	10	11	B. C. E.		
09553	Jan	19	10	B. C. E.	00:31:22	1717788.5217833	-0010	Jan	19	03:28:28	010625	LNN	Asc.	1.4083	0.2731	-0.7251	142	---	---	22.4N	4.0W	13	11	10	B. C. E.		
09554	Jun	15	10	B. C. E.	21:55:59	1717936.4138794	-0010	Jun	15	00:52:59	010620	LNN	Dec.	1.1821	0.7235	-0.3447	248	---	---	22.3S	30.0E	14	10	10	B. C. E.		
09555	Dec	10	10	B. C. E.	04:45:47	1718113.6984651	-0010	Dec	10	07:42:42	010615	LPU	Asc.	-0.6387	1.6729	0.6991	292	161	---	---	22.3N	72.2W	14	09	10	B. C. E.	
09556	Jun	03	9	B. C. E.	23:00:03	1718290.4583658	-0009	Jun	03	01:56:54	010610	LTU	Dec.	0.4110	2.1297	1.0785	354	212	045	---	---	21.9S	13.5E	14	03	9	B. C. E.
09557	Nov	28	8	B. C. E.	18:49:24	1718468.2843037	-0009	Nov	28	21:46:07	010606	LTU	Asc.	0.0283	2.8114	1.8008	336	217	100	---	---	21.5N	75.7E	15	09	9	B. C. E.
09558	May	24	8	B. C. E.	05:39:04	1718644.7344668	-0008	May	24	08:35:47	010601	LTU	Dec.	-0.3758	2.1686	1.1685	333	207	061	---	---	20.7S	86.7W	13	03	8	B. C. E.
09559	Nov	18	8	B. C. E.	03:02:52	1718822.6269938	-0008	Nov	18	05:59:27	010596	LPU	Asc.	0.7530	1.5105	0.4427	318	149	---	---	19.7N	48.8W	14	09	8	B. C. E.	
09560	Apr	14	7	B. C. E.	12:04:39	1718970.0032326	-0007	Apr	14	15:01:12	010592	LNN	Dec.	1.4067	0.2496	-0.6962	131	---	---	7.2S	179.4E	14	01	7	B. C. E.		
09561	May	13	7	B. C. E.	19:13:37	1718999.3011232	-0007	May	13	22:10:08	010591	LNN	Dec.	-1.1027	0.8113	-0.1420	226	---	---	18.9S	69.4E	14	02	7	B. C. E.		
09562	Oct	08	7	B. C. E.	09:18:17	1719146.8876931	-0007	Oct	08	12:14:43	010587	LNN	Asc.	-1.5678	0.0298	-1.0663	054	---	---	3.9N	141.5W	13	07	7	B. C. E.		
09563	Nov	07	7	B. C. E.	04:14:01	1719176.6763977	-0007	Nov	07	07:10:27	010586	LNN	Asc.	1.4649	0.2224	-0.8809	145	---	---	17.1N	67.3W	14	08	7	B. C. E.		
09564	Apr	04	6	B. C. E.	04:56:55	1719324.7061900	-0006	Apr	04	07:53:15	010581	LPU	Dec.	0.7074	1.5393	0.5803	287	148	---	---	3.9S	73.0W	14	01	6	B. C. E.	
09565	Mar	27	6	B. C. E.	11:06:23	1719500.9627696	-0006	Mar	27	14:02:41	010577	LPU	Asc.	-0.8335	1.3564	0.3014	305	125	---	---	0.0S	168.1W	13	07	6	B. C. E.	
09566	Mar	23	5	B. C. E.	18:19:36	1719679.2636104	-0005	Mar	23	21:15:44	010572	LTU	Dec.	-0.0249	2.8169	1.8079	343	222	102	---	---	0.4S	87.0E	15	01	5	B. C. E.
09567	Sep	15	5	B. C. E.	20:10:14	1719855.3404440	-0005	Sep	15	23:06:24	010567	LTU	Asc.	-0.0784	2.7120	1.7165	334	216	099	---	---	3.8S	56.4E	13	07	5	B. C. E.

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar					
											Pen.	Par.	Lat.	Lon.	Day	Month	Year			
09631	May 04	22 C.E.	20:07:21	1729217.3384402	0022	May 04	22:59:11	010310	LTU	Asc.	0.4716	1.9669	1.0180	305	183	020	14.9S	56.8E	15 02	22 C.E.
09632	Oct 28	22 C.E.	07:07:42	1729393.7970149	0022	Oct 28	09:59:29	010306	LPU	Dec.	-0.6081	1.7787	0.7063	336	181	---	12.1N	110.1W	13 08	22 C.E.
09633	Mar 25	23 C.E.	23:36:26	1729542.4836363	0023	Mar 26	02:28:08	010302	LNN	Asc.	-1.4336	0.2418	-0.7862	141	---	---	2.4S	7.2E	15 01	23 C.E.
09634	Apr 24	23 C.E.	10:36:17	1729571.9418617	0023	Apr 24	13:27:58	010301	LNN	Asc.	1.2580	0.5461	-0.4464	199	---	---	10.8S	159.6W	14 02	23 C.E.
09635	Sep 18	23 C.E.	03:14:17	1729718.6349208	0023	Sep 18	06:05:54	010297	LNN	Dec.	1.4423	0.2013	-0.7782	121	---	---	1.6S	50.2W	13 07	23 C.E.
09636	Oct 17	23 C.E.	14:32:20	1729748.1057827	0023	Oct 17	17:23:55	010296	LNN	Dec.	-1.2617	0.5494	-0.4633	200	---	---	7.5N	139.2E	12 08	23 C.E.
09637	Mar 14	24 C.E.	03:32:56	1729896.6478681	0024	Mar 14	06:24:27	010292	LPU	Asc.	-0.7407	1.5377	0.4611	330	156	---	2.6N	50.7W	14 13	24 C.E.
09638	Sep 06	24 C.E.	19:06:43	1730073.2963341	0024	Sep 06	21:58:10	010287	LPU	Dec.	0.7339	1.4894	0.5331	280	140	---	6.4S	72.6E	14 06	24 C.E.
09639	Mar 03	25 C.E.	03:27:02	1730250.6437682	0025	Mar 03	06:18:26	010282	LPU	Asc.	-0.0166	2.8686	1.7875	374	235	105	7.6N	48.2W	14 12	25 C.E.
09640	Aug 27	25 C.E.	10:55:10	1730277.9549712	0025	Aug 27	13:46:27	010278	LTU	Dec.	0.0341	2.7843	1.8065	328	213	100	11.0S	163.6W	14 06	25 C.E.
09641	Feb 20	26 C.E.	06:49:16	1730604.7842149	0026	Feb 20	09:40:30	010273	LPU	Asc.	0.7030	1.5882	0.5483	316	161	---	12.3N	97.9W	13 12	26 C.E.
09642	Aug 16	26 C.E.	22:06:20	1730782.4210634	0026	Aug 16	00:57:27	010268	LPU	Dec.	-0.7322	1.5288	0.5006	311	155	---	15.3S	29.2E	15 06	26 C.E.
09643	Jan 11	27 C.E.	06:45:24	1730929.7815313	0027	Jan 11	09:36:29	010264	LNN	Asc.	-0.3082	0.4444	-0.5307	173	---	---	20.9N	98.4W	13 11	27 C.E.
09644	Feb 09	27 C.E.	17:19:40	1730959.2219932	0027	Feb 09	20:10:43	010263	LNN	Asc.	1.3645	0.3483	-0.6395	158	---	---	16.6N	104.8E	14 12	27 C.E.
09645	Jul 07	27 C.E.	10:48:18	1731106.9502056	0027	Jul 07	13:39:17	010259	LNN	Dec.	1.3501	0.4168	-0.6546	194	---	---	22.0S	162.0W	14 04	27 C.E.
09646	Aug 06	27 C.E.	22:12:11	1731136.5917913	0027	Aug 06	05:03:10	010258	LNN	Dec.	-1.5180	0.1083	-0.9622	101	---	---	19.2S	32.8E	14 05	27 C.E.
09647	Dec 31	27 C.E.	02:32:30	1731284.4390078	0028	Jan 01	01:23:04	010254	LPU	Asc.	-0.6471	1.6575	0.6837	292	159	---	22.7N	23.0W	14 10	28 C.E.
09648	Jun 25	28 C.E.	12:11:08	1731461.0077361	0028	Jun 25	15:02:00	010250	LPU	Dec.	0.5784	1.8207	0.7734	339	189	---	23.2S	176.7E	13 04	28 C.E.
09649	Dec 20	28 C.E.	12:15:34	1731639.0108156	0028	Dec 20	15:06:16	010245	LPU	Asc.	0.0256	2.8188	1.8035	338	218	100	23.7N	176.6E	14 10	28 C.E.
09650	Jun 14	29 C.E.	19:45:11	1731815.3230455	0029	Jun 14	22:35:53	010240	LTU	Dec.	-0.2152	2.4597	1.4665	337	216	091	23.6S	62.5E	13 03	29 C.E.
09651	Oct 09	29 C.E.	19:43:36	1731993.3219141	0029	Oct 09	22:34:10	010235	LPU	Asc.	0.7500	1.5191	0.4454	320	150	---	23.7N	63.1E	15 09	29 C.E.
09652	May 06	30 C.E.	03:18:14	1732140.6376611	0030	May 06	06:08:44	010230	LNN	Dec.	1.5346	0.0125	-0.9287	030	---	---	14.3S	50.4W	14 02	30 C.E.
09653	Jun 04	30 C.E.	10:03:09	1732169.9188586	0030	Jun 04	12:53:40	010230	LNN	Dec.	-0.9518	1.0858	0.1371	253	063	---	23.2S	152.6W	13 03	30 C.E.
09654	Nov 28	30 C.E.	20:19:41	1732347.3470004	0030	Nov 28	23:10:07	010225	LNN	Asc.	1.4522	0.2471	-0.8591	153	---	---	22.7N	52.7E	14 09	30 C.E.
09655	Apr 25	31 C.E.	20:11:08	1732495.3410665	0031	Apr 25	23:01:29	010221	LPU	Dec.	0.8385	1.2989	0.3399	272	115	---	11.7S	56.6E	15 02	31 C.E.
09656	Oct 19	31 C.E.	03:12:18	1732671.6335414	0031	Oct 19	06:02:35	010216	LPU	Asc.	-0.8696	1.2900	0.2353	298	111	---	8.5N	50.8W	13 08	31 C.E.
09657	Apr 14	32 C.E.	09:05:06	1732849.8785433	0032	Apr 14	11:55:15	010211	LTU	Dec.	0.0996	2.6806	1.6701	345	223	101	8.7S	136.4W	14 01	32 C.E.
09658	Oct 07	32 C.E.	12:46:53	1733026.0325544	0032	Oct 07	15:37:01	010206	LTU	Asc.	-0.1273	2.6222	1.6266	331	214	096	5.0N	165.7E	14 07	32 C.E.
09659	Apr 03	33 C.E.	14:46:33	1733204.1156563	0033	Apr 03	17:36:33	010201	LPU	Dec.	-0.6814	1.6398	0.5763	333	170	---	5.2S	138.9E	14 01	33 C.E.
09660	Sep 27	33 C.E.	03:48:31	1733380.6586890	0033	Sep 27	06:38:28	010197	LPU	Asc.	0.5624	1.8071	0.8446	297	171	---	1.3N	59.3W	13 07	33 C.E.
09661	Feb 21	34 C.E.	22:52:47	1733528.4533219	0034	Feb 21	02:42:40	010193	LNN	Dec.	1.4917	0.1587	-0.9159	121	---	---	12.2N	21.1E	14 12	34 C.E.
09662	Mar 23	34 C.E.	15:11:30	1733558.3298588	0034	Mar 23	18:01:22	010192	LNN	Dec.	-1.4216	0.2894	-0.7894	164	---	---	1.4S	133.4E	13 01	34 C.E.
09663	Aug 18	34 C.E.	09:58:57	1733705.9159353	0034	Aug 18	12:48:45	010188	LNN	Asc.	-1.3789	0.3221	-0.6664	154	---	---	15.4S	148.6W	14 06	34 C.E.
09664	Sep 16	34 C.E.	19:47:40	1733735.3247660	0034	Sep 16	22:37:27	010187	LNN	Asc.	1.2595	0.5338	-0.4401	190	---	---	2.3S	61.3E	14 07	34 C.E.
09665	Feb 11	35 C.E.	04:06:42	1733882.6173235	0035	Feb 11	06:56:26	010183	LPU	Dec.	0.7206	1.5490	0.5230	308	155	---	15.4N	57.0W	13 12	35 C.E.
09666	Aug 07	35 C.E.	19:20:36	1734060.3059772	0035	Aug 07	22:10:14	010178	LPU	Asc.	-0.6893	1.6142	0.5728	322	166	---	18.0S	70.9E	15 05	35 C.E.
09667	Jan 31	36 C.E.	16:16:17	1734237.1779694	0036	Jan 31	19:05:51	010174	LPU	Dec.	-0.0147	2.8203	1.8417	325	211	099	17.9N	120.2E	14 11	36 C.E.
09668	Jul 26	36 C.E.	21:48:58	1734414.4090078	0036	Jul 26	00:38:26	010169	LTU	Asc.	0.0552	2.7944	1.7200	375	235	106	20.0S	33.5E	14 05	36 C.E.
09669	Jan 20	37 C.E.	08:03:46	1734591.8359457	0037	Jan 20	10:53:10	010164	LPU	Dec.	-0.6918	1.5719	0.6053	286	150	---	19.9N	117.4W	14 11	37 C.E.
09670	Jul 15	37 C.E.	22:25:24	1734768.4342999	0037	Jul 15	01:14:42	010159	LPU	Asc.	0.8012	1.4179	0.3584	317	139	---	21.4S	23.9E	13 05	37 C.E.
09671	Dec 11	37 C.E.	09:49:21	1734916.9092749	0037	Dec 11	12:38:37	010155	LNN	Dec.	1.3867	0.3299	-0.7024	161	---	---	24.5N	148.0W	14 10	37 C.E.
09672	Jan 09	38 C.E.	22:49:26	1734946.4509908	0038	Jan 09	01:38:40	010154	LNN	Dec.	-1.3975	0.2936	-0.7058	147	---	---	21.1N	20.2E	15 11	38 C.E.
09673	Jun 05	38 C.E.	18:49:54	1735093.2846577	0038	Jun 05	21:39:04	010150	LNN	Asc.	-1.1165	0.7982	-0.1794	231	---	---	23.5S	75.9E	13 03	38 C.E.
09674	Jul 05	38 C.E.	04:19:08	1735122.6799586	0038	Jul 05	07:08:18	010150	LNN	Asc.	1.5078	0.0951	-0.9121	088	---	---	21.9S	65.1W	13 04	38 C.E.
09675	Nov 30	38 C.E.	15:07:31	1735271.1302178	0038	Nov 30	17:56:37	010147	LPU	Dec.	0.7522	1.5221	0.4343	326	150	---	22.4N	131.2E	15 09	38 C.E.
09676	May 26	39 C.E.	10:23:03	1735447.9326762	0039	May 26	13:12:06	010142	LTU	Asc.	-0.3391	2.2070	1.2643	310	193	071	21.1S	157.6W	13 03	39 C.E.
09677	Nov 19	39 C.E.	14:36:19	1735629.1085549	0039	Nov 19	17:25:17	010137	LPU	Dec.	0.0817	2.7617	1.6557	379	234	103	19.5N	138.1E	13 09	39 C.E.
09678	May 15	40 C.E.	03:36:32	1735802.6503701	0040	May 15	06:25:23	010132	LTU	Asc.	0.4010	2.0967	1.1473	310	190	055	18.0S	55.8W	14 02	40 C.E.
09679	Nov 07	40 C.E.	15:20:01	1735979.1388989	0040	Nov 07	18:08:49	010127	LPU	Dec.	-0.5981	1.7967	0.7252	336	183	---	15.7N	126.8E	13 08	40 C.E.
09680	Apr 05	41 C.E.	06:53:34	1736127.7872030	0041	Apr 05	09:42:17	010123	LNN	Asc.	-1.4966	0.1264	-0.9021	104	---	---	6.6S	103.1W	15 01	41 C.E.
09681	May 04	41 C.E.	17:50:03	1736157.2430925	0041	May 04	20:38:45	010122	LNN	Asc.	1.1924	0.6673	-0.3270	218	---	---	14.3S	9		

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date and Time				
											Pen.	Par.		Lat.	Lon.	Day	Month	Year		
09738	Aug 27	63 C.E.	16:11:54	1744307.1749324	0063	Aug 27	18:56:58	009904	LNN	Dec.	-1.4061	0.3184	-0.7617	171	---	12.2S	117.5E	15 06	63 C.E.	
09739	Jan 22	64 C.E.	16:01:20	1744455.1675970	0064	Jan 22	18:46:20	009900	LPU	Asc.	-0.6691	1.6164	0.6441	290	156	---	19.5N	123.5E	15 11	64 C.E.
09740	Jul 17	64 C.E.	01:42:34	1744631.5712243	0064	Jul 17	04:27:29	009895	LPU	Dec.	0.7313	1.5388	0.4939	320	157	---	21.2S	25.2W	13 05	64 C.E.
09741	Jan 11	65 C.E.	05:26:34	1744809.7267816	0065	Jan 11	08:11:20	009890	LTU	Asc.	0.0131	2.8432	1.8252	341	220	101	22.2N	78.6W	15 11	65 C.E.
09742	Jul 06	65 C.E.	10:06:09	1744985.9209340	0065	Jul 06	12:50:57	009886	LPU	Dec.	-0.0634	2.7360	1.7474	337	218	101	23.2S	151.5W	13 04	65 C.E.
09743	Dec 31	65 C.E.	12:15:36	1745164.0108384	0065	Dec 31	15:00:17	009881	LPU	Asc.	0.7429	1.5336	0.4568	323	152	---	24.1N	177.9E	14 10	65 C.E.
09744	Jun 26	66 C.E.	00:56:03	1745340.5389241	0066	Jun 26	03:40:40	009877	LPU	Asc.	-0.8016	1.3603	0.4137	273	123	---	24.5S	14.6W	14 04	66 C.E.
09745	Dec 20	66 C.E.	12:28:02	1745518.0194633	0066	Dec 20	15:12:34	009872	LNN	Asc.	1.4418	0.2659	-0.8400	158	---	---	25.0N	173.3E	13 10	66 C.E.
09746	May 17	67 C.E.	11:03:17	1745665.9606182	0067	May 17	13:47:45	009868	LPU	Dec.	0.9853	1.0306	0.0694	251	038	---	17.9S	167.2W	14 02	67 C.E.
09747	Jun 15	67 C.E.	18:11:42	1745695.2581198	0067	Jun 15	20:56:08	009867	LNN	Asc.	-1.5190	0.0430	-0.9017	055	---	---	24.9S	85.7E	15 03	67 C.E.
09748	Nov 09	67 C.E.	19:48:49	1745842.3255684	0067	Nov 09	22:53:13	009863	LPU	Asc.	-0.8842	1.2620	0.2096	293	105	---	16.0N	59.9E	13 08	67 C.E.
09749	May 05	68 C.E.	23:18:34	1746020.4712212	0068	May 05	02:02:49	009858	LTU	Dec.	0.2472	2.4115	1.3975	344	218	088	15.7S	8.9E	15 02	68 C.E.
09750	Oct 29	68 C.E.	05:55:39	1746196.7469799	0068	Oct 29	08:39:55	009854	LTU	Asc.	-0.1524	2.5758	1.5808	329	212	094	13.2N	92.2W	13 08	68 C.E.
09751	Apr 25	69 C.E.	04:18:05	1746374.6792242	0069	Apr 25	07:02:13	009849	LPU	Dec.	-0.5352	1.9076	0.8448	349	198	---	13.0S	65.7W	14 02	69 C.E.
09752	Oct 18	69 C.E.	21:00:53	1746551.3756091	0069	Oct 18	23:44:57	009844	LPU	Asc.	0.5244	1.8791	0.9123	300	176	---	9.9N	41.4E	14 08	69 C.E.
09753	Apr 14	70 C.E.	04:46:38	1746728.6990507	0070	Apr 14	07:30:37	009839	LNN	Asc.	-1.2844	0.5372	-0.5339	217	---	---	9.6S	72.3W	14 01	70 C.E.
09754	Sep 09	70 C.E.	01:40:16	1746876.5696329	0070	Sep 09	04:24:11	009835	LNN	Asc.	-1.4221	1.0173	-0.8434	110	---	---	7.6S	25.0W	15 06	70 C.E.
09755	Oct 08	70 C.E.	12:32:33	1746906.0226050	0070	Oct 08	15:16:28	009834	LNN	Asc.	1.2164	0.6178	-0.3659	203	---	---	6.4N	168.6E	14 07	70 C.E.
09756	Mar 04	71 C.E.	19:53:04	1747053.3285189	0071	Mar 04	22:36:55	009830	LPU	Dec.	0.7871	1.4204	0.4073	296	139	---	7.7N	65.6E	13 12	71 C.E.
09757	Aug 29	71 C.E.	09:53:05	1747230.9118597	0071	Aug 29	12:36:50	009826	LPU	Asc.	-0.8035	1.4108	0.3570	311	136	---	11.0S	147.9W	14 06	71 C.E.
09758	Feb 22	72 C.E.	08:58:32	1747407.8739828	0072	Feb 22	11:42:15	009821	LTU	Dec.	0.0391	2.7706	1.8015	323	209	099	11.0N	130.5W	13 12	72 C.E.
09759	Aug 17	72 C.E.	11:28:01	1747584.9777917	0072	Aug 17	14:11:37	009816	LTU	Asc.	-0.0794	2.7536	1.6718	376	235	104	14.2S	171.4W	13 06	72 C.E.
09760	Feb 11	73 C.E.	01:10:10	1747762.5487300	0073	Feb 11	03:53:42	009812	LPU	Dec.	-0.6519	1.6431	0.6804	290	157	---	14.0N	13.4W	14 12	73 C.E.
09761	Aug 06	73 C.E.	12:08:31	1747939.0059176	0073	Aug 06	14:51:59	009807	LPU	Asc.	0.6569	1.6829	0.6229	334	175	---	16.9S	178.5E	13 05	73 C.E.
09762	Jan 02	74 C.E.	02:54:39	1748263.8883478	0074	Jan 02	05:38:01	009803	LNN	Dec.	1.4023	0.3033	-0.7329	156	---	---	24.6N	41.3W	15 11	74 C.E.
09763	Jan 31	74 C.E.	15:48:42	1748117.1588161	0074	Jan 31	18:32:05	009803	LNN	Dec.	-1.3768	0.3318	-0.6683	157	---	---	16.5N	126.6E	15 11	74 C.E.
09764	Jun 27	74 C.E.	09:19:13	1748263.8883478	0074	Jun 27	12:02:33	009799	LNN	Asc.	-1.2566	0.5386	-0.4340	194	---	---	24.9S	140.1W	13 04	74 C.E.
09765	Jul 26	74 C.E.	18:43:56	1748293.8051288	0074	Jul 26	21:27:14	009798	LNN	Asc.	1.3622	0.3607	-0.6436	167	---	---	18.9S	79.4E	15 05	74 C.E.
09766	Dec 22	74 C.E.	07:31:45	1748441.8137195	0074	Dec 22	10:14:59	009794	LPU	Dec.	0.7635	1.5031	0.4121	326	148	---	24.4N	112.2W	14 10	74 C.E.
09767	Jun 17	75 C.E.	01:19:02	1748618.5548872	0075	Jun 17	04:02:12	009789	LPU	Asc.	-0.4871	1.9346	0.9935	301	179	---	24.0S	20.8W	14 03	75 C.E.
09768	Dec 11	75 C.E.	06:45:40	1748795.7817186	0075	Dec 11	09:28:45	009784	LPU	Dec.	0.0920	2.7424	1.6371	378	234	103	23.2N	102.1W	13 09	75 C.E.
09769	Jun 05	76 C.E.	18:25:49	1748973.2679263	0076	Jun 05	21:08:47	009779	LTU	Asc.	0.2531	2.3696	1.4171	318	202	085	22.3S	82.1E	15 03	76 C.E.
09770	Nov 29	76 C.E.	07:59:59	1749149.8333230	0076	Nov 29	10:42:56	009775	LPU	Dec.	-0.5880	1.8133	0.7457	335	184	---	21.1N	121.9W	13 09	76 C.E.
09771	May 26	77 C.E.	08:01:26	1749327.8343274	0077	May 26	10:44:16	009770	LNN	Asc.	1.0504	0.9305	-0.0690	253	---	---	19.9S	122.0W	14 03	77 C.E.
09772	Oct 20	77 C.E.	04:39:23	1749474.6940201	0077	Oct 20	07:22:10	009766	LNN	Dec.	1.4889	0.1166	-0.8643	092	---	---	11.4N	73.5W	13 08	77 C.E.
09773	Nov 18	77 C.E.	16:21:53	1749504.1818666	0077	Nov 18	19:04:39	009765	LNN	Dec.	-1.2321	0.6019	-0.4071	206	---	---	18.1N	111.9E	13 09	77 C.E.
09774	Apr 16	78 C.E.	00:09:09	1749652.5063484	0078	Apr 16	02:51:49	009761	LPU	Asc.	-0.9397	1.1700	0.0982	301	076	---	10.1S	2.8W	14 01	78 C.E.
09775	Oct 09	78 C.E.	20:24:49	1749829.3505627	0078	Oct 09	23:07:24	009756	LPU	Dec.	0.8115	1.3516	0.3860	272	122	---	6.7N	50.8E	14 07	78 C.E.
09776	Apr 05	79 C.E.	00:33:50	1750006.5234958	0079	Apr 05	03:16:23	009752	LPU	Asc.	-0.1912	2.5407	1.4745	368	230	096	5.3S	7.8W	14 01	79 C.E.
09777	Sep 29	79 C.E.	11:17:25	1750183.9704264	0079	Sep 29	13:59:51	009748	LTU	Dec.	0.1345	2.6085	1.6138	331	214	096	1.8N	171.5W	14 07	79 C.E.
09778	Mar 24	80 C.E.	05:34:08	1750360.7320327	0080	Mar 24	08:16:33	009744	LPU	Asc.	0.5607	1.8395	0.8191	325	186	---	0.3S	81.6W	13 01	80 C.E.
09779	Sep 17	80 C.E.	20:51:58	1750538.3694221	0080	Sep 17	23:34:16	009739	LPU	Dec.	-0.6083	1.7661	0.7182	329	180	---	3.2S	45.9E	15 07	80 C.E.
09780	Feb 12	81 C.E.	08:26:33	1750685.8517695	0081	Feb 12	11:08:48	009735	LNN	Asc.	-1.3570	0.3498	-0.6141	154	---	---	12.8N	122.6W	13 12	81 C.E.
09781	Mar 13	81 C.E.	17:37:11	1750715.2341517	0081	Mar 13	20:19:25	009734	LNN	Asc.	1.2503	0.5494	-0.4220	193	---	---	4.5N	98.8E	14 13	81 C.E.
09782	Aug 08	81 C.E.	06:46:10	1750862.7820612	0081	Aug 08	09:28:20	009730	LNN	Dec.	1.5666	0.0232	-1.0552	047	---	---	15.6S	101.0W	13 05	81 C.E.
09783	Sep 06	82 C.E.	23:24:50	1750992.4755764	0081	Sep 06	02:06:58	009729	LNN	Dec.	-1.3607	0.4042	-0.6806	191	---	---	8.2S	8.6E	14 06	81 C.E.
09784	Feb 02	82 C.E.	00:35:16	1751040.5244882	0082	Feb 02	03:17:20	009725	LPU	Asc.	-0.6885	1.5802	0.6090	289	152	---	16.7N	4.6W	14 11	82 C.E.
09785	Jul 28	82 C.E.	08:39:13	1751126.8605631	0082	Jul 28	11:21:15	009721	LPU	Dec.	0.7997	1.4131	0.3688	310	138	---	19.1S	129.1W	13 05	82 C.E.
09786	Jan 22	83 C.E.	13:53:11	1751195.0785952	0083	Jan 22	16:35:04	009716	LPU	Asc.	0.0009	2.8659	1.8472	342	220	101	20.1N	155.6E	14 11	83 C.E.
09787	Jul 17	83 C.E.	17:24:33	1751571.2253827	0083	Jul 17	20:06:27	009711	LTU	Dec.	0.0072	2.8383	1.8513	336	218	102	21.9S	99.4E	13 05	83 C.E.
09788	Jan 11	84 C.E.	20:24:32	1751749.3503646	0084	Jan 11	23:06:17	009706	LPU	Asc.	0.7346	1.5492	0.4718	325	155	---	2			

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse	Astronomical Julian Date (UT)	Astronomical Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date and Time of Creation	
											Pen.	Par.		Lat.	Lon.	Day	Month
09845	Mar 26 107 C.E.	11:12:29	1760223.9669984	0107 Mar 26 13:50:32	009483	LPU	Dec.	0.8793	1.2448	0.2445	280	109	---	0.8S	166.1W	13 01	107 C.E.
09846	Sep 20 107 C.E.	00:55:03	1760401.5382250	0107 Sep 20 03:33:01	009479	LPU	Asc.	-0.8907	1.2571	0.1910	301	103	---	2.7S	14.8W	14 07	107 C.E.
09847	Mar 15 108 C.E.	01:10:56	1760578.5492588	0108 Mar 15 03:48:51	009474	LTU	Dec.	0.1204	2.6170	1.6571	320	207	096	2.8N	15.1W	14 13	108 C.E.
09848	Sep 08 108 C.E.	01:41:49	1760755.5707034	0108 Sep 08 04:19:38	009469	LTU	Asc.	-0.1858	2.5622	1.4730	375	232	096	6.5S	26.0W	14 06	108 C.E.
09849	Mar 04 109 C.E.	17:45:14	1760933.2397487	0109 Mar 04 20:22:58	009464	LPU	Dec.	-0.5864	1.7613	0.8025	296	168	---	6.2N	96.8E	15 12	109 C.E.
09850	Aug 28 109 C.E.	02:28:10	1761109.6028922	0109 Aug 28 05:05:51	009460	LPU	Asc.	0.5384	1.9010	0.8399	343	195	---	10.1S	37.2W	13 06	109 C.E.
09851	Jan 23 110 C.E.	19:37:02	1761258.3173845	0110 Jan 23 22:14:37	009456	LNN	Dec.	1.4340	0.2462	-0.7920	142	---	---	21.0N	70.2E	15 11	110 C.E.
09852	Feb 22 110 C.E.	08:14:34	1761287.8434510	0110 Feb 22 10:52:09	009455	LNN	Dec.	-1.3321	0.4139	-0.5863	174	---	---	9.5N	120.2W	14 12	110 C.E.
09853	Jul 19 110 C.E.	00:07:52	1761434.5054664	0110 Jul 19 02:45:24	009451	LNN	Asc.	-1.3839	0.3035	-0.6664	148	---	---	22.9S	1.0W	13 05	110 C.E.
09854	Aug 17 110 C.E.	09:42:20	1761463.9043986	0110 Aug 17 12:19:50	009450	LNN	Asc.	1.2388	0.5865	-0.4165	207	---	---	13.2S	145.5W	12 06	110 C.E.
09855	Jan 12 111 C.E.	23:39:12	1761612.4855504	0111 Jan 12 01:26:37	009446	LPU	Dec.	0.7865	1.4610	0.3698	324	141	---	22.6N	8.6E	14 11	111 C.E.
09856	Jul 08 111 C.E.	16:23:08	1761789.1827339	0111 Jul 08 19:00:30	009442	LPU	Asc.	-0.6289	1.6749	0.7326	290	159	---	23.6S	114.5E	13 04	111 C.E.
09857	Jan 01 112 C.E.	22:51:45	1761966.4526085	0112 Jan 02 01:29:03	009437	LTU	Dec.	0.1064	2.7139	1.6128	377	233	102	23.4N	19.1E	14 10	112 C.E.
09858	Jun 27 112 C.E.	09:12:48	1762143.8838946	0112 Jun 27 11:50:00	009433	LTU	Asc.	0.1050	2.6443	1.6860	324	209	098	23.5S	138.6W	14 04	112 C.E.
09859	Dec 21 112 C.E.	00:45:59	1762320.5919374	0112 Dec 21 03:23:09	009428	LPU	Dec.	-0.5794	1.8257	0.7648	333	185	---	23.1N	10.9W	13 10	112 C.E.
09860	Jun 16 113 C.E.	22:01:32	1762498.4177361	0113 Jun 17 00:38:34	009423	LPU	Asc.	0.9012	1.2080	0.2009	283	102	---	22.6S	28.6E	15 03	113 C.E.
09861	Nov 10 113 C.E.	22:10:59	1762645.4242918	0113 Nov 11 00:47:58	009419	LNN	Dec.	1.4962	0.1030	-0.8777	086	---	---	18.8N	23.8E	13 08	113 C.E.
09862	Dec 10 113 C.E.	09:53:16	1762674.9119902	0113 Dec 10 12:30:14	009418	LNN	Dec.	-1.2239	0.6145	-0.3896	207	---	---	21.9N	149.1W	13 09	113 C.E.
09863	May 07 114 C.E.	13:15:49	1762823.0526486	0114 May 07 15:52:42	009414	LNN	Asc.	-1.0998	0.8751	-0.1943	268	---	---	17.3S	159.3E	14 02	114 C.E.
09864	Oct 31 114 C.E.	13:51:19	1763000.0773010	0114 Oct 31 16:28:08	009410	LPU	Dec.	0.8354	1.3107	0.3395	270	115	---	14.8N	148.6E	13 08	114 C.E.
09865	Apr 26 115 C.E.	14:06:12	1763177.0876410	0115 Apr 26 16:43:00	009406	LPU	Asc.	-0.3370	2.2684	1.2115	359	219	070	13.2S	147.4E	13 02	115 C.E.
09866	Oct 21 115 C.E.	04:06:45	1763354.6173507	0115 Oct 21 06:43:24	009401	LTU	Dec.	0.1696	2.5495	1.5441	333	214	093	10.4N	65.0W	14 08	115 C.E.
09867	Apr 14 116 C.E.	20:12:30	1763531.3420113	0116 Apr 14 22:49:08	009396	LPU	Asc.	0.4345	2.0648	1.0568	331	202	037	8.7S	56.8E	13 01	116 C.E.
09868	Oct 09 116 C.E.	12:39:19	1763709.5273011	0116 Oct 09 15:15:48	009391	LPU	Dec.	-0.5595	1.8618	0.8017	337	189	---	5.6N	167.5E	14 07	116 C.E.
09869	Mar 06 117 C.E.	00:58:17	1763856.4047414	0117 Mar 06 03:34:44	009387	LNN	Asc.	-1.4198	0.2308	-0.7253	126	---	---	4.8N	11.7W	14 12	117 C.E.
09870	Apr 04 117 C.E.	09:14:22	1763885.8849788	0117 Apr 04 11:50:48	009386	LNN	Asc.	1.1435	0.7404	-0.2210	218	---	---	4.1S	137.5W	13 01	117 C.E.
09871	Sep 28 117 C.E.	14:15:25	1764063.0940433	0117 Sep 28 16:51:47	009382	LNN	Dec.	-1.2892	0.5397	-0.5539	219	---	---	0.5N	144.4E	13 07	117 C.E.
09872	Feb 23 118 C.E.	17:20:43	1764211.2227211	0118 Feb 23 19:57:01	009378	LPU	Asc.	-0.7452	1.4750	0.5062	283	140	---	9.4N	103.6E	15 12	118 C.E.
09873	Aug 18 118 C.E.	22:59:28	1764387.4579651	0118 Aug 19 01:35:43	009374	LPU	Asc.	0.9164	1.1988	0.1548	291	092	---	12.9S	15.5E	13 06	118 C.E.
09874	Feb 13 119 C.E.	06:20:31	1764565.7624553	0119 Feb 13 08:56:38	009369	LTU	Asc.	-0.0433	2.7884	1.7691	344	221	101	13.8N	90.8W	15 12	119 C.E.
09875	Aug 08 119 C.E.	08:24:04	1764741.8500447	0119 Aug 08 11:00:10	009364	LPU	Dec.	0.1322	2.6081	1.6226	332	215	097	16.9S	125.2W	13 05	119 C.E.
09876	Feb 02 120 C.E.	12:18:49	1764920.1030644	0120 Feb 02 14:54:47	009359	LPU	Asc.	0.7005	1.6116	0.5347	331	164	---	17.9N	179.8E	14 11	120 C.E.
09877	Jul 27 120 C.E.	23:44:04	1765096.4889409	0120 Jul 28 02:20:00	009355	LPU	Dec.	-0.5974	1.7356	0.7875	294	165	---	20.3S	4.9E	14 05	120 C.E.
09878	Jan 21 121 C.E.	12:14:08	1765274.0098128	0121 Jan 21 14:49:59	009351	LNN	Asc.	1.4041	0.3320	-0.7675	176	---	---	21.4N	179.5W	13 11	121 C.E.
09879	Jun 18 121 C.E.	08:58:43	1765421.8741034	0121 Jun 18 11:34:30	009347	LNN	Dec.	1.2185	0.6067	-0.3624	203	---	---	22.4S	135.4W	14 04	121 C.E.
09880	Jul 17 121 C.E.	16:42:05	1765451.1988958	0121 Jul 17 19:17:52	009347	LNN	Dec.	-1.3214	0.4099	-0.5435	167	---	---	23.1S	110.2E	14 05	121 C.E.
09881	Dec 11 121 C.E.	21:16:42	1765598.3866003	0121 Dec 11 23:52:26	009343	LPU	Asc.	-0.8848	1.2570	0.2124	290	104	---	22.4N	40.4E	13 10	121 C.E.
09882	Jun 07 122 C.E.	20:00:38	1765776.3337675	0122 Jun 07 22:36:14	009338	LPU	Dec.	0.4922	1.9663	0.9437	335	198	---	22.3S	58.5E	15 03	122 C.E.
09883	Oct 02 122 C.E.	08:16:49	1765952.8450170	0122 Oct 02 10:52:24	009333	LPU	Asc.	-0.1625	2.5554	1.5642	326	210	093	21.8N	125.9W	13 09	122 C.E.
09884	May 27 123 C.E.	23:52:17	1766130.4946433	0123 May 28 02:27:45	009329	LTU	Dec.	-0.2838	2.3697	1.3056	366	226	083	21.4S	0.1E	14 03	123 C.E.
09885	Nov 20 123 C.E.	23:31:46	1766307.1009835	0123 Nov 21 02:07:10	009324	LPU	Asc.	-0.5030	1.9205	0.9493	302	179	---	20.3N	4.2E	14 09	123 C.E.
09886	May 16 124 C.E.	00:29:39	1766484.5205862	0124 May 16 03:04:57	009319	LNN	Dec.	-1.0405	0.9797	-0.0814	278	---	---	19.7S	9.5W	14 02	124 C.E.
09887	Nov 09 124 C.E.	14:25:25	1766662.1009835	0124 Nov 09 17:00:40	009315	LNN	Asc.	1.1928	0.6676	-0.3290	213	---	---	18.1N	139.9E	14 08	124 C.E.
09888	Apr 05 125 C.E.	18:42:05	1766809.2792198	0125 Apr 05 21:17:16	009311	LPU	Dec.	0.9349	1.1397	0.1454	270	084	---	4.9S	80.5E	13 01	125 C.E.
09889	Sep 30 125 C.E.	08:37:58	1766986.8506969	0125 Sep 30 11:13:04	009307	LPU	Asc.	-0.9233	1.2002	0.1283	298	085	---	1.6N	131.3W	14 07	125 C.E.
09890	Mar 26 126 C.E.	09:06:03	1767163.8792007	0126 Mar 26 11:41:06	009302	LTU	Dec.	0.1709	2.5221	1.5665	318	204	093	1.5S	134.8W	13 01	126 C.E.
09891	Sep 19 126 C.E.	09:02:58	1767340.8770601	0126 Sep 19 11:37:55	009297	LTU	Asc.	-0.2271	2.4880	1.3954	374	229	091	2.3S	137.1W	13 07	126 C.E.
09892	Mar 16 127 C.E.	01:49:42	1767518.5761756	0127 Mar 16 04:24:33	009292	LPU	Dec.	-0.5432	1.8397	0.8825	300	174	---	2.0N	25.1W	14 13	127 C.E.
09893	Sep 08 127 C.E.	09:54:18	1767694.9127077	0127 Sep 08 12:29:06	009287	LPU	Asc.	0.4913	1.9878	0.9260	346	201	---	6.1S	149.4W	13 06	127 C.E.
09894	Feb 04 128 C.E.	03:46:14	1767843.6571048	0128 Feb 04 06:20:57	009283	LNN	Dec.	1.4584	0.2016	-0.8370	129	---	---	18.1N	51.6E	15 11	128 C.E.
09895	Mar 04 128 C.E.	16:12:59	1767873.1756826	0128 Mar 04 18:47:42	009283	LNN	Dec.	-1.2993	0.4741	-0.5260	186	---	---	5.5N	119.6E	15 12	128 C.E.
09896	Jul 29 128 C.E.	07:41:04	1768019.8201818	0128 Jul 29 10:15:43	009279	LNN	Asc.	-1.4414	0.1978	-0.7716	120	---	---	20.7S	113.9W	13 05	128 C.E.
09897	Aug 27 128 C.E.	17:25:13	1768049.2258423	0128 Aug 27 19:59:52	009279	LNN	Asc.	1.1867	0.6821	-0.3208	220	---	---	9.5S	98.3E	13 06	128 C.E.
09898	Jan 23 129 C.E.	07:33:02	1768197.8146013	0129 Jan 23 10:07:36	009275	LPU	Dec.	0.8054	1.4258	0.3356	322	135	---	20.4N	109.0W	14 11	129 C.E.

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Lunar Eclipse Number	Calendar Date and Time (UT)			Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
	Month	Day	Time	Year	Month	Day	Time							Pen.	Par.	Lat.	Lon.	Day	Month	Year
09952	May	18	151 C.E.	03:23:32	1776347.6413373	0151	May 18	05:54:35	009062	LPU	Asc.	-0.4975	1.9699	0.9211	346	201	---	19.6S	52.7W	13 03 151 C.E.
09953	Nov	11	151 C.E.	21:17:28	1776525.9871251	0151	Nov 11	23:48:22	009057	LTU	Dec.	0.1846	2.5266	1.5120	336	215	092	17.7N	37.4E	15 09 151 C.E.
09954	May	06	152 C.E.	10:34:20	1776701.3405037	0152	May 06	13:05:15	009053	LTU	Asc.	0.2902	2.3243	1.3269	335	210	081	16.0S	160.0W	13 02 152 C.E.
09955	Oct	31	152 C.E.	04:51:20	1776879.7023158	0152	Oct 31	07:22:08	009049	LPU	Dec.	-0.5336	1.9145	0.8439	342	193	---	13.7N	76.1W	14 08 152 C.E.
09956	Mar	27	153 C.E.	16:59:45	1777027.9811634	0153	Mar 27	19:30:30	009045	LNN	Asc.	-1.5083	0.0649	-0.8843	068	---	---	3.8S	106.0E	14 01 153 C.E.
09957	Apr	26	153 C.E.	00:29:23	1777056.5204026	0153	Apr 26	03:00:07	009044	LPN	Asc.	1.0159	0.9705	0.0172	242	029	---	12.0S	8.1W	13 02 153 C.E.
09958	Oct	20	153 C.E.	05:40:23	1777233.7363756	0153	Oct 20	08:11:02	009039	LNN	Dec.	-1.2448	0.6248	-0.4758	234	---	---	9.1N	88.0W	14 08 153 C.E.
09959	Mar	17	154 C.E.	09:31:25	1777381.8968176	0154	Mar 17	12:02:00	009035	LPU	Dec.	-0.8293	1.3196	0.3528	274	118	---	1.0N	140.7W	14 13 154 C.E.
09960	Sep	09	154 C.E.	13:59:56	1777558.0832921	0154	Sep 09	16:30:27	009030	LNT	Asc.	1.0033	1.0393	-0.0047	274	---	---	5.0S	149.0E	12 06 154 C.E.
09961	Mar	06	155 C.E.	22:10:52	1777736.4242150	0155	Mar 06	00:41:16	009026	LTU	Dec.	-0.1147	2.6575	1.6379	345	222	099	5.9N	30.5E	15 12 155 C.E.
09962	Aug	29	155 C.E.	23:58:09	1777912.4987130	0155	Aug 29	02:28:33	009022	LTU	Dec.	0.2312	2.4265	1.4411	328	210	088	9.7S	0.4E	13 06 155 C.E.
09963	Feb	24	156 C.E.	03:35:49	1778090.6498756	0156	Feb 24	06:06:05	009017	LPU	Asc.	0.6386	1.7241	0.6492	339	178	---	10.6N	49.8W	14 12 156 C.E.
09964	Aug	18	156 C.E.	15:28:06	1778267.1445094	0156	Aug 18	17:58:18	009012	LPU	Dec.	-0.4873	1.9395	0.9877	302	180	---	14.1S	128.6E	13 06 156 C.E.
09965	Feb	12	157 C.E.	03:30:45	1778444.4635332	0157	Feb 12	06:00:52	009007	LNN	Asc.	1.3511	0.4256	-0.6666	197	---	---	15.2N	48.0W	14 12 157 C.E.
09966	Jul	09	157 C.E.	23:36:47	1778594.6483521	0157	Jul 09	02:06:19	009003	LNN	Dec.	1.3686	0.3355	-0.6420	157	---	---	21.4S	6.2E	15 04 157 C.E.
09967	Aug	08	157 C.E.	08:02:47	1778621.8352662	0157	Aug 08	10:32:51	009003	LNN	Dec.	-1.2083	0.6219	-0.3401	202	---	---	18.0S	119.6W	14 05 157 C.E.
09968	Jan	02	158 C.E.	14:16:16	1778769.4964354	0158	Jan 02	16:46:16	008999	LPU	Asc.	-0.8878	1.2472	0.2110	287	104	---	22.3N	148.1E	13 10 158 C.E.
09969	Jun	29	158 C.E.	09:39:52	1778946.9026867	0158	Jun 29	12:09:46	008995	LPU	Dec.	0.6570	1.6681	0.6372	324	173	---	23.0S	145.2W	14 04 158 C.E.
09970	Dec	23	158 C.E.	01:58:06	1779123.5820186	0158	Dec 23	04:27:58	008990	LPU	Asc.	-0.1658	2.5469	1.5607	324	209	093	23.5N	28.7W	13 10 158 C.E.
09971	Jun	18	159 C.E.	12:42:27	1779301.0294745	0159	Jun 18	15:12:11	008985	LTU	Dec.	-0.1070	2.6956	1.6286	373	234	104	23.7S	168.5E	14 04 159 C.E.
09972	Dec	12	159 C.E.	17:25:12	1779478.2825331	0159	Dec 12	19:54:52	008980	LPU	Asc.	0.5000	1.9265	0.9545	303	180	---	23.8N	98.1E	14 10 159 C.E.
09973	Jun	06	160 C.E.	13:28:39	1779655.0615568	0160	Jun 06	15:58:13	008975	LPU	Dec.	-0.8652	1.2989	0.2425	308	116	---	23.5S	156.3E	13 03 160 C.E.
09974	Dec	01	160 C.E.	07:57:34	1779832.8316450	0160	Dec 01	10:27:05	008971	LNN	Asc.	1.1938	0.6692	-0.3339	214	---	---	23.2N	121.4W	14 09 160 C.E.
09975	Apr	27	161 C.E.	09:27:55	1779979.8943878	0161	Apr 27	11:57:23	008968	LNN	Dec.	1.0591	0.9063	-0.0769	245	---	---	12.5S	142.6W	13 02 161 C.E.
09976	Oct	22	161 C.E.	00:25:11	1780151.5174874	0161	Oct 22	02:54:33	008963	LPU	Asc.	-0.9689	1.1213	0.0394	292	048	---	10.1N	9.2W	14 08 161 C.E.
09977	Apr	16	162 C.E.	00:37:29	1780334.5260325	0162	Apr 16	03:06:48	008958	LTU	Dec.	0.2890	2.3016	1.3534	313	197	080	9.6S	9.6W	14 01 162 C.E.
09978	Oct	11	162 C.E.	00:12:11	1780511.5084575	0162	Oct 11	04:11:24	008953	LTU	Asc.	-0.2882	2.3788	1.2804	372	225	080	6.4N	5.8W	14 07 162 C.E.
09979	Apr	06	163 C.E.	17:35:59	1780689.3232337	0163	Apr 06	20:05:06	008948	LTU	Dec.	-0.4389	2.0300	1.0752	308	187	040	6.4S	96.3E	15 01 163 C.E.
09980	Sep	30	163 C.E.	01:16:26	1780865.5530745	0163	Sep 30	03:45:32	008945	LPU	Asc.	0.4185	2.1219	1.0591	350	208	039	2.5N	21.5W	13 07 163 C.E.
09981	Feb	25	164 C.E.	19:36:07	1781014.3167498	0164	Feb 25	22:05:10	008942	LNN	Dec.	1.5280	0.0739	-0.9647	080	---	---	10.7N	70.5E	15 12 164 C.E.
09982	Mar	26	164 C.E.	07:41:17	1781043.8203384	0164	Mar 26	10:10:18	008941	LNN	Dec.	-1.2126	0.6334	-0.3672	213	---	---	2.9S	114.4W	15 01 164 C.E.
09983	Aug	19	164 C.E.	23:12:15	1781190.4688399	0164	Aug 19	01:41:12	008937	LNN	Asc.	-1.5389	0.0190	-0.9507	038	---	---	14.5S	13.1E	13 06 164 C.E.
09984	Sep	18	164 C.E.	09:21:17	1781219.8897749	0164	Sep 18	11:50:13	008936	LNN	Asc.	1.1041	0.8336	-0.1692	238	---	---	1.2S	143.1E	12 07 164 C.E.
09985	Aug	13	165 C.E.	22:54:56	1781368.4548123	0165	Aug 13	01:23:47	008932	LPU	Dec.	0.8632	1.3182	0.2311	314	115	---	14.1N	20.9E	14 12 165 C.E.
09986	Aug	09	165 C.E.	15:33:16	1781545.1480995	0165	Aug 09	18:02:03	008927	LPU	Dec.	-0.8147	1.3372	0.3886	270	119	---	17.2S	127.8E	13 05 165 C.E.
09987	Feb	02	166 C.E.	22:24:19	1781722.4335529	0166	Feb 02	03:05:02	008922	LTU	Dec.	0.1611	2.6077	1.5181	373	231	098	17.0N	28.3E	14 11 166 C.E.
09988	Jul	30	166 C.E.	07:40:44	1781899.8199585	0166	Jul 30	10:09:21	008918	LTU	Asc.	-0.0989	2.6622	1.6908	328	212	098	19.3S	114.3W	14 05 166 C.E.
09989	Jan	23	167 C.E.	01:38:08	1782076.5681522	0167	Jan 23	04:06:44	008914	LPU	Dec.	-0.5459	1.8796	0.8335	332	189	---	19.3N	20.8W	13 11 167 C.E.
09990	Jul	19	167 C.E.	19:02:49	1782254.2936222	0167	Jul 19	21:31:17	008909	LPU	Asc.	0.6832	1.6155	0.5934	316	166	---	20.8S	74.8E	15 05 167 C.E.
09991	Dec	14	167 C.E.	00:51:55	1782401.5360525	0167	Dec 14	03:20:20	008905	LNN	Dec.	1.4932	1.0668	-0.8705	087	---	---	24.9N	13.3W	13 10 167 C.E.
09992	Jan	12	168 C.E.	12:03:37	1782510.5020666	0168	Jan 12	14:32:01	008904	LNN	Dec.	-1.2023	0.6484	-0.3444	209	---	---	20.8N	178.1W	13 11 168 C.E.
09993	Jun	08	168 C.E.	08:28:12	1782578.8529186	0168	Jun 08	10:56:32	008900	LNN	Asc.	-1.3577	0.4015	-0.6670	191	---	---	24.1S	128.4W	14 03 168 C.E.
09994	Jul	07	168 C.E.	23:17:59	1782618.4078261	0168	Jul 07	01:46:17	008899	LNN	Asc.	1.4833	0.1688	-0.8956	125	---	---	21.6S	10.4E	14 04 168 C.E.
09995	Dec	02	168 C.E.	16:30:53	1782756.1881150	0168	Dec 02	18:59:08	008895	LPU	Dec.	0.8466	1.2930	0.3162	270	113	---	23.1N	110.7E	14 09 168 C.E.
09996	May	28	169 C.E.	10:00:32	1782932.9170396	0169	May 28	12:28:44	008891	LPU	Asc.	-0.5802	1.8163	0.7709	338	189	---	21.9S	151.9W	13 03 169 C.E.
09997	Nov	22	169 C.E.	05:57:10	1783110.7480295	0169	Nov 22	08:25:15	008887	LTU	Dec.	0.1877	2.5231	1.5046	337	215	092	20.5N	91.9W	14 09 169 C.E.
09998	May	17	170 C.E.	17:42:41	1783287.2379774	0170	May 17	20:10:45	008882	LTU	Asc.	0.2142	2.4613	1.4685	336	216	091	18.9S	92.6E	13 02 170 C.E.
09999	Nov	11	170 C.E.	13:04:14	1783465.0446083	0170	Nov 11	15:32:10	008877	LPU	Dec.	-0.5270	1.9289	0.8540	344	195	---	17.1N	160.8E	14 08 170 C.E.
10000	May	07	171 C.E.	08:01:46	1783641.8345624	0171	May 07	10:29:39	008872	LPU	Asc.	0.9470	1.0951	0.1452	253	066	---	15.4S	121.8W	13 02 171 C.E.
10001	Oct	31	171 C.E.	13:32:20	1783819.0641221	0171	Oct 31	16:00:09	008868	LNN	Dec.	-1.2299	0.6534	-0.4499	239	---	---	13.0N	153.7E	13 08 171 C.E.
10002	Mar	27	17																	

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time (UT)	Year	Month		Day	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
10059	Dec	23	196	C.E.	01:28:35	1793003.5615216	0196	Dec	23	03:52:25	008630	LNN	Asc.	1.1972	0.6651	-0.3422	215	---	---	24.8N	21.4W	14	10	196	C.E.
10060	May	19	197	C.E.	00:01:12	1793150.5008300	0197	May	19	02:24:58	008626	LNN	Dec.	1.1962	0.6502	-0.3240	211	---	---	18.4S	1.6W	13	03	197	C.E.
10061	Jun	17	197	C.E.	09:09:24	1793179.8815260	0197	Jun	17	11:33:09	008625	LNN	Dec.	-1.4106	0.2702	-0.7306	146	---	---	24.9S	138.4W	13	04	197	C.E.
10062	Nov	12	197	C.E.	16:33:48	1793328.1901403	0197	Nov	12	18:57:29	008621	LNT	Asc.	-0.9946	1.0787	-0.0116	290	---	---	17.1N	108.7E	15	09	197	C.E.
10063	May	08	198	C.E.	15:49:45	1793505.1595461	0198	May	08	18:13:21	008616	LTU	Dec.	0.4243	2.0507	1.1077	306	186	048	16.5S	121.2E	13	02	198	C.E.
10064	Nov	01	198	C.E.	15:53:07	1793682.1618822	0198	Nov	01	18:16:38	008611	LTU	Asc.	-0.3240	2.3151	1.2130	370	222	071	14.3N	118.4E	14	08	198	C.E.
10065	Apr	28	199	C.E.	08:53:15	1793859.8703092	0199	Apr	28	11:16:41	008607	LTU	Dec.	-0.3116	2.2632	1.3090	315	198	076	14.0S	134.6W	14	02	199	C.E.
10066	Oct	21	199	C.E.	17:17:30	1794036.2204823	0199	Oct	21	19:40:55	008603	LTU	Asc.	0.3745	2.2026	1.1399	350	211	057	11.0N	97.1E	13	08	199	C.E.
10067	Apr	16	200	C.E.	22:33:08	1794214.4396719	0200	Apr	17	00:56:25	008598	LNN	Dec.	-1.0994	0.8419	-0.1604	243	---	---	11.1S	20.8E	15	01	200	C.E.
10068	Oct	10	200	C.E.	01:54:16	1794390.5793535	0200	Oct	10	04:17:29	008593	LNN	Asc.	0.1489	0.9348	-0.0678	248	---	---	7.5N	31.9W	13	07	200	C.E.
10069	Mar	07	201	C.E.	13:37:45	1794539.0678850	0201	Mar	07	16:00:54	008589	LPU	Dec.	0.9504	1.1559	-0.0731	300	066	---	6.1N	159.1E	14	12	201	C.E.
10070	Aug	31	201	C.E.	07:33:47	1794715.8151240	0201	Aug	31	09:56:52	008585	LPU	Asc.	-0.9105	1.1646	0.2098	257	085	---	10.0S	113.1W	14	06	201	C.E.
10071	Feb	24	202	C.E.	13:29:06	1794893.0618718	0202	Feb	24	15:52:07	008580	LTU	Dec.	0.2300	2.4762	1.3966	368	227	090	9.8N	161.7E	13	12	202	C.E.
10072	Aug	20	202	C.E.	23:03:21	1795070.4606600	0202	Aug	21	01:26:15	008576	LTU	Asc.	-0.2115	2.4610	1.4788	328	210	090	13.0S	14.7E	15	06	202	C.E.
10073	Feb	13	203	C.E.	17:46:02	1795247.2402975	0203	Feb	13	20:08:54	008571	LPU	Dec.	-0.4970	1.9632	0.9293	332	195	---	13.1N	97.6E	13	12	203	C.E.
10074	Aug	10	203	C.E.	09:21:01	1795424.8895968	0203	Aug	10	11:43:46	008566	LPU	Asc.	0.5554	1.8562	0.8221	332	189	---	15.8S	139.7W	14	05	203	C.E.
10075	Jan	04	204	C.E.	18:35:30	1795572.3586979	0204	Jan	04	20:58:12	008562	LNN	Dec.	-1.4973	0.0971	-0.8758	083	---	---	24.4N	83.8E	14	10	204	C.E.
10076	Feb	03	204	C.E.	05:07:47	1795601.7137425	0204	Feb	03	07:30:28	008561	LNN	Dec.	-1.1669	0.7086	-0.2748	216	---	---	15.8N	73.1W	13	11	204	C.E.
10077	Jun	29	204	C.E.	21:17:14	1795749.3869719	0204	Jun	29	23:39:52	008558	LNN	Asc.	-1.5264	0.0925	-0.9774	094	---	---	24.9S	40.8E	14	04	204	C.E.
10078	Jul	29	204	C.E.	12:36:40	1795779.0254577	0204	Jul	29	14:59:16	008557	LNN	Asc.	1.3371	0.4409	-0.6311	198	---	---	18.1S	171.3E	14	05	204	C.E.
10079	Dec	24	204	C.E.	10:19:27	1795826.9301762	0204	Dec	24	12:42:00	008553	LPU	Dec.	0.8527	1.2827	0.3044	270	111	---	24.5N	153.7W	14	10	204	C.E.
10080	Jun	18	205	C.E.	23:18:24	1796103.4711168	0205	Jun	19	01:40:54	008549	LPU	Asc.	-0.7443	1.5124	0.4726	318	154	---	24.3S	9.7E	13	04	205	C.E.
10081	Dec	13	205	C.E.	23:18:08	1796258.7336864	0205	Dec	14	01:40:29	008544	LTU	Dec.	0.1908	2.5202	1.4958	340	216	092	23.6N	10.2E	15	10	205	C.E.
10082	Jun	08	206	C.E.	07:58:42	1796457.8324329	0206	Jun	08	10:21:03	008539	LTU	Asc.	0.0585	2.7432	1.7580	336	218	101	22.8S	121.0W	13	03	206	C.E.
10083	Dec	03	206	C.E.	05:36:31	1796635.1638864	0206	Dec	03	07:58:43	008534	LPU	Dec.	-0.5211	1.9430	0.8615	347	196	---	21.8N	85.7W	14	09	206	C.E.
10084	May	28	207	C.E.	22:57:24	1796812.4565305	0207	May	29	01:19:36	008531	LPU	Asc.	0.8001	1.3623	0.4171	273	123	---	20.6S	14.1E	14	03	207	C.E.
10085	Nov	22	207	C.E.	05:33:27	1796989.7315609	0207	Nov	22	07:55:34	008527	LNN	Dec.	-1.2137	0.6848	-0.4215	245	---	---	19.2N	85.8W	14	09	207	C.E.
10086	Apr	18	208	C.E.	08:45:15	1797137.8647622	0208	Apr	18	11:07:18	008523	LPU	Asc.	-1.0031	1.0004	0.0343	249	004	---	11.6S	132.1W	14	01	208	C.E.
10087	May	17	208	C.E.	16:13:10	1797167.1758049	0208	May	17	18:35:12	008522	LNN	Asc.	1.5181	0.0450	-0.9004	057	---	---	17.8S	115.2E	14	02	208	C.E.
10088	Oct	11	208	C.E.	13:47:16	1797314.0744952	0208	Oct	11	16:09:15	008518	LNN	Dec.	1.0771	0.9038	-0.1399	257	---	---	8.1N	149.9E	12	07	208	C.E.
10089	Apr	07	209	C.E.	20:39:51	1797492.3610116	0209	Apr	07	23:01:42	008513	LTU	Asc.	-0.2784	2.3578	1.3369	344	217	082	7.0S	50.3E	15	01	209	C.E.
10090	Oct	01	209	C.E.	00:29:41	1797686.5206134	0209	Oct	01	02:51:31	008508	LTU	Dec.	0.3258	2.2533	1.2669	322	202	072	3.2N	9.8W	13	07	209	C.E.
10091	Mar	28	210	C.E.	01:13:43	1797846.5511964	0210	Mar	28	03:35:26	008504	LPU	Asc.	0.4865	2.0012	0.9303	354	204	---	2.1S	16.9W	14	01	210	C.E.
10092	Sep	20	210	C.E.	16:20:20	1798023.1682919	0210	Sep	20	18:24:01	008500	LTU	Dec.	-0.3706	2.1576	1.1982	309	192	062	1.7S	118.0E	14	07	210	C.E.
10093	Mar	17	211	C.E.	01:20:33	1798200.5593999	0211	Mar	17	03:42:08	008495	LNN	Asc.	1.2164	0.6660	-0.4130	239	---	---	2.9N	17.4W	14	13	211	C.E.
10094	Sep	10	211	C.E.	07:51:37	1798377.8275143	0211	Sep	10	10:13:07	008490	LNN	Dec.	-1.0815	0.8622	-0.1151	235	---	---	6.5S	118.4W	14	06	211	C.E.
10095	Feb	04	212	C.E.	15:15:41	1798525.1762914	0212	Feb	04	17:37:08	008486	LPU	Asc.	-0.9218	1.1765	0.1569	277	089	---	15.6N	135.2E	13	11	212	C.E.
10096	Jul	31	212	C.E.	06:21:23	1798702.7648493	0212	Jul	31	08:42:44	008482	LPU	Dec.	0.8847	1.2582	0.2117	299	107	---	17.9S	94.6W	14	05	212	C.E.
10097	Jan	24	213	C.E.	04:09:00	1798924.3366653	0213	Jan	24	06:30:18	008477	LTU	Asc.	-0.1905	2.4962	1.5206	321	206	091	19.2N	58.3W	13	11	213	C.E.
10098	Jul	20	213	C.E.	08:11:04	1799056.8410224	0213	Jul	20	10:32:17	008473	LTU	Dec.	0.1446	2.6301	1.5562	374	234	101	21.0S	122.1W	14	05	213	C.E.
10099	Jan	13	214	C.E.	20:00:29	1799234.3366653	0214	Jan	13	22:21:36	008468	LPU	Asc.	0.4856	1.9520	0.9818	304	182	---	22.1N	63.2E	14	11	214	C.E.
10100	Jul	09	214	C.E.	09:14:40	1799410.8851835	0214	Jul	09	11:35:44	008463	LPU	Dec.	-0.6100	1.7651	0.7128	337	184	---	23.3S	138.4W	13	04	214	C.E.
10101	Jan	03	215	C.E.	10:09:20	1799588.9231487	0215	Jan	03	12:30:18	008458	LNN	Asc.	1.1961	0.6678	-0.3409	216	---	---	24.2N	150.1W	14	10	215	C.E.
10102	May	30	215	C.E.	07:16:43	1799735.8032748	0215	May	30	09:37:38	008455	LNN	Dec.	1.2665	0.5193	-0.4512	190	---	---	20.4S	110.4W	13	03	215	C.E.
10103	Jun	28	215	C.E.	16:13:55	1799765.1763364	0215	Jun	28	18:34:50	008454	LNN	Dec.	-1.3207	0.4155	-0.5827	178	---	---	24.9S	116.2E	12	04	215	C.E.
10104	Nov	24	215	C.E.	00:43:29	1799913.5301958	0215	Nov	24	03:04:19															

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar	
		Date	Time (UT)								Pen.	Par.	Lat.	Lon.	Day	Month
10166	Jun 19 243 C.E.	13:51:45	1809983.0775996	0243 Jun 19 16:08:13	008188	LPU	Asc.	0.6500	1.6366	0.6934	289	156	---	23.0S	151.3E	13 04 243 C.E.
10167	Dec 13 243 C.E.	21:42:09	1810160.4042731	0243 Dec 13 23:58:32	008183	LNN	Dec.	-1.2027	0.7049	-0.4013	248	---	---	22.3N	34.1E	14 10 243 C.E.
10168	May 09 244 C.E.	23:39:09	1810308.4855263	0244 May 10 01:55:29	008179	LNN	Asc.	-1.1449	0.7412	-0.2269	221	---	---	18.6S	3.4E	15 02 244 C.E.
10169	Jun 08 244 C.E.	07:05:46	1810337.7966662	0244 Jun 08 09:22:04	008178	LNN	Asc.	1.3805	0.2988	-0.6492	143	---	---	21.6S	107.7W	14 03 244 C.E.
10170	Nov 02 244 C.E.	06:23:06	1810484.7660383	0244 Nov 02 08:39:20	008174	LNN	Dec.	1.0945	0.8710	-0.1709	251	---	---	16.0N	99.5W	13 08 244 C.E.
10171	Apr 29 245 C.E.	10:54:43	1810662.9546698	0245 Apr 29 13:10:52	008170	LTU	Asc.	-0.4193	2.1005	1.0772	340	206	043	14.7S	165.0W	14 02 245 C.E.
10172	Oct 22 245 C.E.	17:32:21	1810839.2308026	0245 Oct 22 19:48:28	008165	LTU	Dec.	0.3571	2.1961	1.2093	319	199	065	11.7N	93.4E	13 08 245 C.E.
10173	Apr 18 246 C.E.	14:52:59	1811017.1201326	0246 Apr 18 17:08:59	008161	LTU	Asc.	0.3496	2.2511	1.1825	363	220	067	10.4S	136.3E	14 02 246 C.E.
10174	Oct 12 246 C.E.	09:03:30	1811193.8774270	0246 Oct 12 11:19:25	008156	LTU	Dec.	-0.3253	2.2434	1.2785	312	196	072	7.1N	138.8W	13 08 246 C.E.
10175	Apr 07 247 C.E.	15:12:15	1811371.1335076	0247 Apr 07 17:28:07	008151	LNN	Asc.	1.0906	0.8921	-0.1777	269	---	---	5.7S	132.6E	13 01 247 C.E.
10176	Oct 02 247 C.E.	00:19:56	1811548.5138397	0247 Oct 02 02:35:41	008146	LNN	Dec.	-1.0295	0.9631	-0.0250	247	---	---	2.2N	7.1W	14 07 247 C.E.
10177	Feb 26 248 C.E.	07:23:34	1811695.8080355	0248 Feb 26 09:39:18	008143	LPU	Asc.	-0.9732	1.0759	0.0688	266	059	---	8.1N	107.4W	13 12 248 C.E.
10178	Aug 21 248 C.E.	20:33:41	1811873.3567293	0248 Aug 21 22:49:19	008138	LNT	Dec.	1.0103	1.0335	-0.0246	280	---	---	11.4S	51.7E	15 06 248 C.E.
10179	Feb 14 249 C.E.	21:06:43	1812050.3796638	0249 Feb 14 23:22:17	008133	LTU	Asc.	-0.2331	2.4138	1.4467	318	203	086	12.6N	47.5E	14 12 249 C.E.
10180	Aug 10 249 C.E.	21:38:24	1812227.4016630	0249 Aug 10 23:53:53	008129	LTU	Dec.	0.2878	2.3701	1.2904	370	226	081	15.6S	36.1E	14 05 249 C.E.
10181	Feb 04 250 C.E.	13:16:48	1812405.0533378	0250 Feb 04 15:32:12	008124	LTU	Asc.	0.4552	2.0065	1.0389	307	185	029	16.7N	165.2E	14 11 250 C.E.
10182	Jul 30 250 C.E.	22:54:30	1812581.4545126	0250 Jul 31 01:09:52	008120	LPU	Dec.	-0.4592	2.0414	0.9900	348	205	---	19.3S	17.3E	13 05 250 C.E.
10183	Jan 25 251 C.E.	03:13:16	1812759.6342157	0251 Jan 25 05:28:31	008115	LNN	Asc.	1.1826	0.6934	-0.3169	221	---	---	20.3N	44.1W	15 11 251 C.E.
10184	Jun 20 251 C.E.	21:50:56	1812906.4103677	0251 Jun 21 00:06:07	008111	LNN	Dec.	1.4056	0.2614	-0.7038	137	---	---	22.3S	31.8E	13 04 251 C.E.
10185	Jul 20 251 C.E.	06:39:27	1812935.7773904	0251 Jul 20 08:54:36	008110	LNN	Dec.	-1.1811	0.6882	-0.3063	221	---	---	22.3S	99.0W	13 05 251 C.E.
10186	Dec 15 251 C.E.	17:03:03	1813084.2104509	0251 Dec 15 19:18:09	008106	LNT	Asc.	-0.0148	1.0448	-0.0520	288	---	---	22.6N	104.3E	15 10 251 C.E.
10187	Jun 09 252 C.E.	14:18:14	1813261.0959931	0252 Jun 09 16:33:16	008102	LPU	Dec.	0.6445	1.6450	0.7052	288	156	---	22.4S	144.4E	13 03 252 C.E.
10188	Dec 03 252 C.E.	16:03:27	1813438.1690652	0252 Dec 03 18:18:26	008098	LTU	Asc.	-0.3461	2.2747	1.1722	368	219	065	22.2N	117.7E	14 09 252 C.E.
10189	May 30 253 C.E.	07:11:57	1813615.7999634	0253 May 30 09:26:49	008094	LTU	Dec.	-0.0938	2.6645	1.7068	324	209	099	21.9S	109.6W	14 03 253 C.E.
10190	Nov 22 253 C.E.	18:11:47	1813792.2581847	0253 Nov 22 20:26:38	008089	LTU	Asc.	0.3468	2.2513	1.1927	349	212	066	20.8N	84.4E	14 09 253 C.E.
10191	May 19 254 C.E.	19:57:12	1813970.3313840	0254 May 19 22:11:54	008084	LPU	Dec.	-0.8922	1.2252	0.2169	284	105	---	20.6S	58.7E	15 03 254 C.E.
10192	Nov 12 254 C.E.	03:40:28	1814146.6531036	0254 Nov 12 05:55:07	008079	LPU	Asc.	1.0089	1.0072	0.0066	253	018	---	18.8N	85.7W	13 09 254 C.E.
10193	Apr 09 255 C.E.	10:30:25	1814294.9377877	0255 Apr 09 12:45:00	008075	LNN	Dec.	1.1354	0.8130	-0.2628	261	---	---	6.4S	156.9W	14 01 255 C.E.
10194	Oct 03 255 C.E.	08:30:51	1814471.8547548	0255 Oct 03 10:45:22	008071	LNN	Dec.	-1.0075	0.9920	0.0264	243	035	---	2.9N	129.7W	14 07 255 C.E.
10195	Mar 28 256 C.E.	11:05:32	1814648.9621763	0256 Mar 28 13:20:00	008067	LTU	Dec.	0.3870	2.1799	1.1167	357	214	054	2.7S	164.9W	13 01 256 C.E.
10196	Sep 21 256 C.E.	22:57:15	1814826.4564227	0256 Sep 22 01:11:35	008062	LTU	Asc.	-0.3325	2.2461	1.2461	328	206	071	0.8S	14.1E	15 07 256 C.E.
10197	Mar 17 257 C.E.	07:02:23	1815003.2099879	0257 Mar 17 09:16:42	008057	LTU	Dec.	-0.3713	2.1840	1.1697	335	207	061	1.0N	106.5E	13 13 257 C.E.
10198	Sep 11 257 C.E.	17:35:19	1815180.8161962	0257 Sep 11 09:49:30	008052	LTU	Asc.	0.4078	2.1366	1.0834	348	209	045	4.5S	114.9W	14 06 257 C.E.
10199	Feb 05 258 C.E.	20:35:04	1815328.3576903	0258 Feb 05 22:49:12	008048	LNN	Dec.	1.5354	0.0224	-0.9412	040	---	---	17.3N	56.2E	14 11 258 C.E.
10200	Mar 07 258 C.E.	05:51:33	1815357.7441279	0258 Mar 07 08:05:40	008047	LNN	Dec.	-1.0679	0.8826	-0.0858	235	---	---	4.5N	85.2W	13 12 258 C.E.
10201	Aug 31 258 C.E.	09:24:21	1815534.8919141	0258 Aug 31 11:38:24	008043	LNN	Asc.	1.1565	0.7787	-0.3057	257	---	---	8.1S	141.7W	13 06 258 C.E.
10202	Jan 26 259 C.E.	12:31:53	1815683.0221461	0259 Jan 26 14:45:52	008039	LPU	Dec.	0.8854	1.2221	0.2445	266	100	---	19.6N	176.5E	14 11 259 C.E.
10203	Jul 21 259 C.E.	09:47:14	1815859.3247041	0259 Jul 21 22:01:30	008035	LPU	Asc.	-0.9689	1.0978	0.0628	281	059	---	21.8S	64.2E	13 05 259 C.E.
10204	Jan 16 260 C.E.	00:56:37	1816037.5390861	0260 Jan 16 03:10:05	008030	LPU	Dec.	0.2099	2.4877	1.4584	343	217	090	21.4N	10.6W	15 11 260 C.E.
10205	Jul 10 260 C.E.	05:40:45	1816213.7366320	0260 Jul 10 07:54:32	008025	LTU	Asc.	-0.1671	2.5406	1.5623	331	213	095	22.7S	84.7W	13 04 260 C.E.
10206	Jan 04 261 C.E.	06:15:12	1816391.7605549	0261 Jan 04 08:28:51	008020	LPU	Dec.	-0.5082	1.9688	0.8831	351	199	---	22.4N	91.5W	14 10 261 C.E.
10207	Jun 29 261 C.E.	21:21:14	1816568.3897401	0261 Jun 29 23:34:50	008016	LPU	Asc.	0.5764	1.7717	0.8286	295	168	---	22.9S	39.5E	14 04 261 C.E.
10208	Dec 24 261 C.E.	05:45:55	1816745.7422226	0261 Dec 24 07:59:27	008011	LNN	Dec.	-1.1962	0.7161	-0.3888	249	---	---	22.6N	85.6W	14 10 261 C.E.
10209	May 21 262 C.E.	06:59:01	1816893.7909880	0262 May 21 09:12:28	008007	LNN	Asc.	-1.2203	0.6038	-0.3661	203	---	---	21.3S	106.6W	14 03 262 C.E.
10210	Jan 19 262 C.E.	14:30:59	1816923.1048536	0262 Jan 19 16:44:25	008006	LNN	Asc.	1.3113	0.4269	-0.5233	170	---	---	22.3S	141.5E	14 04 262 C.E.
10211	Nov 13 262 C.E.	14:50:05	1817070.1181172	0262 Nov 13 17:03:28	008002	LNN	Dec.	1.0969	0.8657	-0.1747	250	---	---	19.3N	134.2E	13 09 262 C.E.
10212	May 10 263 C.E.	17:52:13	1817248.2445987	0263 May 10 20:05:30	007998	LPU	Dec.	-0.4964	1.9600	0.9348	336	198	---	18.0S	90.3E	15 02 263 C.E.
10213	Nov 03 263 C.E.	02:14:02	1817424.5930839	0263 Nov 03 04:27:17	007993	LTU	Dec.	0.3650	2.1816	1.1949	318	198	063	15.5N	37.1W	13 08 263 C.E.
10214	Apr 28 264 C.E.	21:30:35	1817602.3962434	0264 Apr 28 23:43:44	007989	LTU	Asc.	0.2719	2.3933	1.3254	368	226	085	14.1S	36.2E	14 02 264 C.E.
10215	Oct 22 264 C.E.	17:44:20	1817779.2391217	0264 Oct 22 19:57:24	007984	LTU	Dec.	-0.3114	2.2702	1.3028	313	197	074	11.2N	20.6E	14 08 264 C.E.
10216	Apr 17 265 C.E.	21:58:20	1817956.4155057	0265 Apr 18 00:11:19	007979	LNT	Asc.	1.0186	1.0221	-0.0435	283	---	---	9.7S	30.2E	14 02 265 C.E.
10217	Oct 12 265 C.E.	08:44:06	1818133.8639564	0265 Oct 12 10:56:59	007974	LNN	Dec.	-1.0126	0.9968	0.0034	251	013	---	6.6N	133.8W	14 08 265 C.E.
10218	Mar 08 266 C.E.	15:16:50	1818281.1366871	0266 Mar 08 17:29:40	007970	LPU	Asc.	-1.0088	1.0075	0.0066	258	019	---	3.9N	133.8E	13 12 266 C.E.
10219	Sep 02 266 C.E.	03:50:57	1818458.6603871	0266 Sep 02 06:03:43	007966	LNN	Dec.	1.0627	0.9405	-0.1236	271	---	---	7.4S	58.3W	14 06 266 C.E.
10220	Feb 26 267 C.E.	05:25:09	1818635.2580226	0267 Feb 26 07:37:52	007962	LTU	Asc.	-0.2634	2.3560	1.3930	316	200	083	8.7N	77.6W	13 12 267 C.E.
10221	Aug 22 267 C.E.	04:33:20	1818812.6898198	0267 Aug 22 06:45:18	007957	LTU	Dec.	0.3500	2.2576	1.1748	367	221	066	12.1S	68.1W	14 06 267 C.E.
10222	Feb 15 268 C.E.	21:43:42	1818990.4053433	0268 Feb 15 23:56:53	007952	LTU	Asc.	0.4312	2.0497	1.0836	308	188	044	13.1N	38.4E	14 12 268 C.E.
10223	Aug 10 268 C.E.	05:57:27	1819166.7842252	0268 Aug 10 08:09:55	007947	LTU	Dec.	-0.3934	2.1621	1.1108	351	212	052	16.3S	88.5W	13 05 268 C.E.
10224	Feb 04 269 C.E.	11:32:39	1819344.9810057	0269 Feb 04 13:45:00	007942	LNN	Asc.	1.1671	0.7220	-0.2886	225	---	---	17.3N	168.6W	14 11 269 C.E.
10225	Jul 01 269 C.E.	05:12:40	1819491.7171312	0269 Jul 01 07:24:58	007938	LNN	Dec.	1.4721	0.1814	-0.8251	101	---	---	21.9S	78.2W	13 04 269 C.E.
10226	Jan 30 269 C.E.	14:03:14	1819521.8055764	0269 Jan 30 16:15:32</												

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Month	Day	Hour	Minute								Month	Day	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
10273	Dec	03	290	C.E.	21:14:31	1827317.3850844	0290	Dec	03	23:23:24	007733	LPU	Asc.	0.9993	1.0230	0.0259	253	034	---	23.4N	39.6E	13	09	290	C.E.
10274	Apr	30	291	C.E.	23:44:29	1827465.4892285	0291	May	01	01:53:19	007729	LNN	Dec.	-1.2884	0.5303	-0.5415	217	---	---	13.7S	3.1E	14	02	291	C.E.
10275	May	30	291	C.E.	14:32:56	1827495.1062018	0291	May	30	16:41:44	007729	LNN	Dec.	-1.5493	0.0456	-1.0146	066	---	---	23.2S	139.8E	14	03	291	C.E.
10276	Oct	25	291	C.E.	01:44:35	1827642.5726216	0291	Oct	25	03:53:19	007725	LNN	Asc.	-0.0425	0.9312	-0.0411	238	---	---	11.2N	29.1W	14	08	291	C.E.
10277	Apr	19	292	C.E.	00:54:34	1827819.5378880	0292	Apr	19	03:03:15	007720	LPU	Dec.	0.5229	1.9252	0.8725	344	198	---	10.7S	14.0W	13	02	292	C.E.
10278	Oct	13	292	C.E.	15:28:49	1827997.1450110	0292	Oct	13	17:37:22	007715	LTU	Asc.	-0.3815	2.1639	-1.1523	329	203	058	7.8N	124.8E	15	08	292	C.E.
10279	Apr	08	293	C.E.	07:59:58	1828173.8333115	0293	Apr	08	10:08:30	007710	LTU	Dec.	-0.2552	2.3908	-1.3889	337	215	086	7.4S	119.8W	13	01	293	C.E.
10280	Oct	02	293	C.E.	23:00:34	1828351.4587306	0293	Oct	03	01:08:58	007705	LTU	Asc.	0.3422	2.2632	-1.1976	355	216	067	4.2N	12.2E	14	07	293	C.E.
10281	Mar	28	294	C.E.	21:45:15	1828528.4064217	0294	Mar	28	23:53:36	007701	LPU	Dec.	-0.9707	1.0562	0.0973	251	051	---	4.0S	34.5E	14	01	294	C.E.
10282	Sep	21	294	C.E.	23:58:08	1828705.4987062	0294	Sep	22	02:06:24	007696	LNN	Asc.	1.0685	0.9441	-0.1483	279	---	---	0.3N	1.7W	14	07	294	C.E.
10283	Feb	17	295	C.E.	05:25:39	1828853.7261416	0295	Feb	17	07:33:51	007692	LPU	Dec.	0.9348	1.1307	0.1545	260	078	---	12.9N	76.8W	14	12	295	C.E.
10284	Aug	12	295	C.E.	10:03:54	1829029.9193717	0295	Aug	12	12:12:02	007688	LNN	Asc.	-1.0925	0.8704	-0.1630	254	---	---	16.4S	149.8W	13	05	295	C.E.
10285	Feb	06	296	C.E.	17:28:18	1829208.2279848	0296	Feb	06	19:36:19	007683	LTU	Dec.	0.2472	2.4199	-1.3895	344	216	086	15.8N	102.4E	15	11	296	C.E.
10286	Jul	31	296	C.E.	20:36:36	1829384.3587523	0296	Jul	31	22:44:36	007678	LTU	Asc.	-0.2985	2.2985	-1.3221	324	205	078	18.7S	51.9E	13	05	296	C.E.
10287	Jan	25	297	C.E.	22:13:12	1829562.4258371	0297	Jan	26	00:21:05	007674	LPU	Dec.	-0.4792	2.0281	-0.9366	354	204	---	18.4N	30.6E	15	11	297	C.E.
10288	Jul	21	297	C.E.	12:33:04	1829739.0229656	0297	Jul	21	14:40:53	007669	LPU	Asc.	0.4392	2.0244	-1.0795	304	184	041	20.4S	172.4E	13	05	297	C.E.
10289	Jan	14	298	C.E.	21:40:30	1829916.2566657	0298	Jan	14	23:48:15	007664	LNN	Dec.	-1.1720	0.7579	-0.3420	255	---	---	20.2N	37.9E	14	11	298	C.E.
10290	Jun	11	298	C.E.	21:28:52	1830064.3950410	0298	Jun	11	23:36:32	007661	LNN	Asc.	-1.3763	0.3204	-0.6552	153	---	---	24.6S	36.7E	15	03	298	C.E.
10291	Jul	11	298	C.E.	05:24:58	1830093.7266657	0298	Jul	11	07:32:38	007660	LNN	Asc.	1.1767	0.6771	-0.2796	210	---	---	21.3S	81.1W	14	04	298	C.E.
10292	Dec	05	298	C.E.	07:56:33	1830248.8309143	0298	Dec	05	10:04:10	007656	LNN	Dec.	1.0945	0.8677	-0.1678	248	---	---	23.7N	120.5W	13	09	298	C.E.
10293	Jun	01	299	C.E.	07:30:45	1830418.8130190	0299	Jun	01	09:38:15	007651	LPU	Asc.	-0.6610	1.6604	0.6301	323	172	---	22.7S	114.2W	14	03	299	C.E.
10294	Nov	24	299	C.E.	19:51:13	1830595.3272287	0299	Nov	24	21:58:41	007647	LTU	Dec.	0.3710	2.1697	-1.1847	316	196	061	21.3N	59.8E	13	09	299	C.E.
10295	May	20	300	C.E.	10:29:52	1830772.9374053	0300	May	20	12:37:13	007642	LPU	Asc.	0.1039	2.7015	-1.6341	373	235	104	20.0S	159.1W	14	03	300	C.E.
10296	Nov	13	300	C.E.	11:22:41	1830949.9740860	0300	Nov	13	13:29:59	007638	LTU	Dec.	-0.2975	2.2978	-1.3263	314	198	077	18.1N	173.7W	13	09	300	C.E.
10297	May	09	301	C.E.	11:15:09	1831126.9688557	0301	May	09	13:22:23	007633	LPU	Asc.	0.8594	1.3102	0.2525	309	118	---	16.6S	170.2W	13	02	301	C.E.
10298	Nov	03	301	C.E.	01:50:44	1831304.5768945	0301	Nov	03	03:57:51	007628	LPU	Dec.	-0.9954	1.0331	0.0302	257	039	---	14.4N	30.9W	14	08	301	C.E.
10299	Mar	30	302	C.E.	06:42:49	1831451.7797305	0302	Mar	30	08:49:54	007625	LNN	Asc.	-1.0985	0.8366	-0.1519	237	---	---	4.7S	99.9W	13	01	302	C.E.
10300	Sep	23	302	C.E.	18:47:29	1831629.2829787	0302	Sep	23	20:54:29	007620	LNN	Dec.	-1.1465	0.7925	-0.2832	254	---	---	1.2N	75.9E	14	07	302	C.E.
10301	Mar	19	303	C.E.	21:37:55	1831806.4013334	0303	Mar	19	23:44:51	007615	LPU	Asc.	-0.3452	2.2019	-1.2471	311	194	069	0.1N	37.5E	14	01	303	C.E.
10302	Sep	12	303	C.E.	18:51:29	1831983.2857552	0303	Sep	12	20:58:19	007610	LPU	Dec.	-0.4509	2.0756	-0.9867	361	210	---	3.9S	76.0E	14	07	303	C.E.
10303	Mar	08	304	C.E.	14:12:33	1832161.0920442	0304	Mar	08	16:19:17	007605	LPU	Asc.	0.3639	2.1717	-1.2086	313	194	064	4.9N	150.0E	14	13	304	C.E.
10304	Aug	31	304	C.E.	20:30:56	1832337.3548146	0304	Aug	31	22:37:38	007600	LTU	Dec.	-0.2817	2.3672	-1.3154	355	220	082	8.8S	52.1E	13	06	304	C.E.
10305	Feb	26	305	C.E.	03:46:04	1832515.6599114	0305	Feb	26	05:52:40	007596	LNN	Asc.	1.1880	0.8121	-0.1987	238	---	---	9.7N	52.5W	15	12	305	C.E.
10306	Aug	21	305	C.E.	05:14:37	1832691.7184799	0305	Aug	21	07:21:09	007592	LPU	Dec.	-0.9959	1.0270	-0.0343	258	037	---	13.4S	78.3W	13	06	305	C.E.
10307	Jan	16	306	C.E.	17:08:18	1832840.2140971	0306	Jan	16	19:14:45	007587	LNN	Asc.	-1.0490	0.9819	-0.1144	282	---	---	20.0N	106.1E	15	11	306	C.E.
10308	Jul	12	306	C.E.	12:53:16	1833017.0369898	0306	Jul	12	14:59:39	007583	LPU	Dec.	0.8591	1.2528	-0.3102	263	104	---	21.4S	167.2E	13	04	306	C.E.
10309	Jan	05	307	C.E.	16:18:18	1833194.1793785	0307	Jan	05	18:24:37	007578	LPU	Asc.	-0.3665	2.2337	-1.1383	365	217	058	22.4N	117.9E	14	10	307	C.E.
10310	Jul	02	307	C.E.	05:13:11	1833371.7174856	0307	Jul	02	07:19:22	007573	LTU	Dec.	0.1327	2.5979	-1.6308	327	211	097	23.2S	78.3W	14	04	307	C.E.
10311	Dec	25	307	C.E.	19:33:11	1833548.3147101	0307	Dec	25	21:39:22	007569	LPU	Asc.	0.3353	2.2675	-1.2187	345	212	069	23.9N	67.8E	13	10	307	C.E.
10312	Jun	20	308	C.E.	16:41:15	1833726.1953127	0308	Jun	20	18:47:18	007564	LPU	Dec.	-0.6594	1.6576	-0.6386	319	171	---	24.3S	109.0E	14	04	308	C.E.
10313	Dec	14	308	C.E.	06:03:57	1833902.7527437	0308	Dec	14	08:09:57	007559	LPU	Asc.	0.9958	1.0280	0.0336	253	037	---	24.5N	91.3W	13	10	308	C.E.
10314	May	11	309	C.E.	06:12:31	1834050.7586968	0309	May	11	08:18:26	007555	LNN	Dec.	-1.3713	0.3774	-0.6929	185	---	---	16.7S	94.3W	14	02	309	C.E.
10315	Jun	09	309	C.E.	20:59:19	1834080.3745296	0309	Jun	09	23:05:14	007554	LNN	Dec.	-1.4662	0.1989	-0.8630	136	---	---	24.4S	43.8E	15	03	309	C.E.
10316	Nov	04	309	C.E.	10:30:36	1834227.9379112	0309	Nov	04	12:36:25	007550	LNN	Asc.	-0.0525	0.9144	-0.0610	237	---	---	14.8N	160.7W	14	08	309	C.E.
10317	Apr	30	310	C.E.	07:42:34	1834404.8212221	0310	Apr	30	09:48:21	007546	LPU	Dec.	0.5973	1.7862	-0.7384	336	186	---	14.2S	116.6W	13	02	310	C.E.
10318	Oct	24	310	C.E.	23:53:09	1834582.4952450	0310	Oct	25	01:58:48	0														

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
10380	Apr 20 338 C.E.	21:44:33	1844622.4059398	0338 Apr 20 23:45:47	007274	LNN	Asc.	-1.2110	0.6247	-0.3527	207	---	12.9S	32.9E	13 02 338 C.E.	
10381	May 20 338 C.E.	07:05:42	1844651.7956269	0338 May 20 09:06:55	007273	LNN	Asc.	1.4079	0.2748	-0.7253	147	---	18.7S	107.9W	13 03 338 C.E.	
10382	Oct 15 338 C.E.	10:15:19	1844793.9273029	0338 Oct 15 12:16:28	007269	LNN	Dec.	1.2023	0.6954	-0.3906	242	---	9.8N	157.4W	14 08 338 C.E.	
10383	Apr 10 339 C.E.	13:22:29	1844977.0572788	0339 Apr 10 15:23:33	007264	LTU	Asc.	-0.4520	2.0024	1.0546	304	183	034	8.4S	159.4E	13 01 339 C.E.
10384	Oct 04 339 C.E.	09:47:34	1845153.9080343	0339 Oct 04 11:48:34	007259	LPU	Dec.	0.5213	1.9490	0.8549	356	200	---	4.9N	149.7W	13 07 339 C.E.
10385	Mar 30 340 C.E.	06:07:30	1845331.7552037	0340 Mar 30 08:08:23	007255	LTU	Asc.	0.2696	2.3438	1.3827	318	201	082	3.7S	90.7W	14 01 340 C.E.
10386	Sep 22 340 C.E.	11:46:58	1845507.9909482	0340 Sep 22 13:47:50	007250	LPU	Dec.	-0.2016	2.5146	1.4622	356	223	093	0.2S	178.5W	13 07 340 C.E.
10387	Apr 19 341 C.E.	19:20:40	1845686.3060139	0341 Mar 19 21:21:24	007245	LNN	Asc.	1.0408	0.9540	-0.0573	256	---	1.1N	72.2E	15 01 341 C.E.	
10388	Sep 11 341 C.E.	21:02:57	1845862.3770438	0341 Sep 11 23:03:38	007240	LPU	Dec.	-0.9052	1.1935	0.2007	271	096	---	5.2S	43.5E	13 07 341 C.E.
10389	Feb 07 342 C.E.	08:39:43	1846010.8609154	0342 Feb 07 10:40:18	007236	LNN	Asc.	-1.0950	0.8958	-0.1971	272	---	14.2N	125.8W	14 12 342 C.E.	
10390	Aug 03 342 C.E.	04:15:56	1846187.6777280	0342 Aug 03 06:16:26	007231	LPU	Dec.	0.9851	1.0240	0.0764	245	033	---	16.9S	63.3W	14 05 342 C.E.
10391	Jan 27 343 C.E.	08:08:54	1846364.8395154	0343 Jan 27 10:09:22	007227	LTU	Asc.	-0.3973	2.1732	1.0859	361	214	047	18.1N	118.2W	13 11 343 C.E.
10392	Jul 23 343 C.E.	20:02:12	1846542.3348605	0343 Jul 23 22:02:32	007222	LTU	Dec.	0.2729	2.3454	1.3692	326	207	083	20.1S	60.3E	15 05 343 C.E.
10393	Jan 16 344 C.E.	12:19:29	1846719.0135354	0344 Jan 16 14:19:49	007218	LTU	Asc.	0.3179	2.2946	1.2554	343	212	073	21.3N	178.6E	13 11 344 C.E.
10394	Jul 12 344 C.E.	06:29:37	1846896.7056999	0344 Jul 12 08:29:49	007213	LPU	Dec.	-0.5073	1.9417	0.9131	336	197	---	22.7S	96.8W	14 04 344 C.E.
10395	Jan 04 345 C.E.	23:37:20	1847073.4842586	0345 Jan 05 01:37:28	007208	LPU	Asc.	0.9836	1.0472	0.0592	253	048	---	23.7N	8.1E	13 10 345 C.E.
10396	Jun 01 345 C.E.	19:02:02	1847251.2930832	0345 Jun 01 21:02:07	007204	LNN	Dec.	1.5405	0.0658	-1.0024	079	---	20.9S	73.4E	14 03 345 C.E.	
10397	Jul 01 345 C.E.	09:54:56	1847250.9131522	0345 Jul 01 11:55:00	007204	LNN	Dec.	-1.3017	0.5032	-0.5634	210	---	24.5S	148.7W	14 04 345 C.E.	
10398	Nov 26 345 C.E.	04:12:25	1847398.6752861	0345 Nov 26 06:12:26	007201	LNN	Asc.	-1.0643	0.8952	-0.0850	235	---	20.3N	65.0W	14 09 345 C.E.	
10399	May 21 346 C.E.	11:09:17	1847575.3814418	0346 May 21 23:09:13	007196	LPU	Dec.	0.7554	1.4918	0.4527	316	151	---	19.7S	41.3E	13 03 346 C.E.
10400	Nov 15 346 C.E.	16:57:10	1847753.2063705	0346 Nov 15 18:56:59	007191	LPU	Asc.	-0.4147	2.1104	1.0841	331	201	044	18.6N	102.8E	15 09 346 C.E.
10401	May 11 347 C.E.	05:52:55	1847929.7450851	0347 May 11 07:52:43	007186	LTU	Dec.	-0.0457	2.7670	1.7812	336	218	102	17.9S	89.8W	13 02 347 C.E.
10402	Nov 04 347 C.E.	22:58:58	1848107.4576192	0347 Nov 05 00:58:37	007181	LPU	Asc.	0.2900	2.3668	1.2858	362	221	079	16.1N	11.7E	14 08 347 C.E.
10403	Apr 29 348 C.E.	20:49:28	1848284.3676896	0348 Apr 29 22:49:06	007177	LPU	Dec.	-0.7831	1.3947	0.4470	275	128	---	15.5S	46.1E	14 02 348 C.E.
10404	Oct 23 348 C.E.	22:55:31	1848461.4552156	0348 Oct 24 00:55:02	007172	LNT	Asc.	0.9891	1.0944	-0.0072	296	---	12.9N	12.2E	14 08 348 C.E.	
10405	Mar 21 349 C.E.	05:41:42	1848609.7372968	0349 Mar 21 07:41:10	007168	LNN	Dec.	-1.0956	0.9008	-0.0734	239	---	0.5N	83.0W	14 01 349 C.E.	
10406	Apr 19 349 C.E.	13:55:17	1848639.0800627	0349 Apr 19 15:54:44	007167	LNN	Dec.	-1.4957	0.0884	-0.8616	079	---	12.7S	139.9E	14 02 349 C.E.	
10407	Sep 13 349 C.E.	08:41:44	1848785.8623135	0349 Sep 13 10:41:08	007163	LNN	Asc.	-1.2245	0.6278	-0.4051	219	---	4.7S	131.0W	13 07 349 C.E.	
10408	Mar 10 350 C.E.	17:06:30	1848964.2128476	0350 Mar 10 19:05:46	007158	LPU	Dec.	0.3553	2.2216	1.1908	342	211	065	4.1N	106.4E	15 13 350 C.E.
10409	Sep 02 350 C.E.	20:01:33	1849140.3344067	0350 Sep 02 22:00:47	007153	LTU	Asc.	-0.4506	2.0195	1.0428	314	190	031	8.3S	59.5E	13 06 350 C.E.
10410	Feb 27 351 C.E.	21:05:26	1849318.7877777	0351 Feb 27 23:04:34	007149	LPU	Dec.	-0.3852	2.1921	1.1109	362	216	053	7.8N	47.1E	15 12 351 C.E.
10411	Aug 23 351 C.E.	12:03:55	1849495.0027202	0351 Aug 23 14:02:59	007144	LTU	Asc.	0.2678	2.3422	1.3908	313	198	082	11.4S	179.2E	13 06 351 C.E.
10412	Feb 16 352 C.E.	20:45:17	1849672.3647811	0352 Feb 16 22:44:16	007139	LNN	Dec.	-1.0939	0.8953	-0.1927	271	---	11.3N	52.4E	14 12 352 C.E.	
10413	Aug 12 352 C.E.	04:13:42	1849849.6761833	0352 Aug 12 06:12:36	007134	LPU	Asc.	0.9996	1.0900	0.0385	250	021	---	14.2S	63.1W	14 05 352 C.E.
10414	Jan 06 353 C.E.	09:37:59	1849996.9013819	0353 Jan 06 11:36:50	007130	LNN	Dec.	1.0961	0.8588	-0.1647	245	---	23.5N	141.6W	13 10 353 C.E.	
10415	Jul 03 353 C.E.	03:43:20	1850174.6508699	0353 Jul 03 05:42:04	007125	LPU	Asc.	-0.9127	1.2044	0.1627	294	095	---	24.0S	55.5W	15 04 353 C.E.
10416	Dec 26 353 C.E.	22:28:08	1850351.4362073	0353 Dec 27 00:26:50	007121	LTU	Dec.	0.3750	2.1594	1.1803	314	195	060	23.9N	24.4E	13 10 353 C.E.
10417	Jun 22 354 C.E.	05:41:33	1850528.7371827	0354 Jun 22 07:40:08	007116	LTU	Asc.	-0.1612	2.5972	1.5278	373	233	100	23.8S	85.8W	14 04 354 C.E.
10418	Dec 16 354 C.E.	14:08:20	1850706.0891220	0354 Dec 16 16:06:50	007111	LTU	Dec.	-0.2925	2.3086	1.3339	315	199	077	23.3N	147.9E	14 10 354 C.E.
10419	Jun 11 355 C.E.	06:56:54	1850882.7895137	0355 Jun 11 08:55:21	007106	LPU	Asc.	0.6014	1.7791	0.7305	337	186	---	22.7S	105.3W	13 03 355 C.E.
10420	Dec 06 355 C.E.	03:56:32	1851060.6642647	0355 Dec 06 05:54:53	007101	LPU	Dec.	-0.9952	1.0389	0.0252	260	036	---	21.8N	60.4W	14 09 355 C.E.
10421	May 01 356 C.E.	05:08:26	1851207.7141871	0356 May 01 07:06:43	007097	LNN	Asc.	-1.2742	0.5063	-0.4663	188	---	16.5S	78.7W	13 02 356 C.E.	
10422	May 30 356 C.E.	14:08:28	1851237.0892100	0356 May 30 16:06:45	007097	LNN	Asc.	1.3268	0.4215	-0.5746	179	---	20.7S	146.5E	13 03 356 C.E.	
10423	Oct 25 356 C.E.	18:10:13	1851385.2570981	0356 Oct 25 20:08:26	007093	LNN	Dec.	-1.2204	0.6644	-0.4261	238	---	13.9N	83.7E	14 08 356 C.E.	
10424	Apr 20 357 C.E.	21:05:14	1851538.3786340	0357 Apr 20 23:03:22	007088	LPU	Asc.	0.5138	1.8876	0.9426	300	176	---	12.3S	42.8E	14 02 357 C.E.
10425	Oct 14 357 C.E.	17:30:05	1851739.2292275	0357 Oct 14 19:28:09	007083	LPU	Dec.	0.5452	1.9061	0.8100	354	196	---	9.1N	94.1E	14 08 357 C.E.
10426	Apr 10 358 C.E.	13:54:00	1851917.0916800	0358 Apr 10 15:51:58	007079	LPU	Asc.	0.2139	2.4457	1.4851	320	205	089	7.9S	151.7E	14 01 358 C.E.
10427	Oct 03 358 C.E.	19:39:24	1852093.3190283	0358 Oct 03 21:37:20	007074	LTU	Dec.	-0.1720	2.5689	1.5164	356	224	096	4.2N	62.6E	13 07 358 C.E.
10428	Mar 31 359 C.E.	02:54:26	1852271.6121355	0359 Mar 31 04:25:15	007070	LPU	Asc.	0.9924	1.0431	0.0313	266	041	---	3.2S	42.3W	15 01 359 C.E.
10429	Sep 23 359 C.E.	05:10:57	1852447.7159389	0359 Sep 23 07:08:43	007065	LPU	Dec.	-0.8701	1.2579	0.2650	276	110	---	0.8S	79.3W	13 07 359 C.E.
10430	Feb 18 360 C.E.	16:12:09	1852596.1751016	0360 Feb 18 18:09:49	007060	LNN	Asc.	-1.1280	0.8339	-0.2565	264	---	10.5N	120.8E	15 12 360 C.E.	
10431	Aug 13 360 C.E.	12:05:57	1852773.0041265	0360 Aug 13 14:03:32	007056	LNN	Dec.	1.0408	0.9234	-0.0273	235	---	13.7S	178.9E	13 06 360 C.E.	
10432	Sep 11 360 C.E.	20:18:47	1852802.3463767	0360 Sep 11 22:16:22	007055	LNN	Dec.	-1.5179	0.0515	-0.9061	060	---	5.7S	54.7E	14 07 360 C.E.	
10433	Feb 06 361 C.E.	15:54:42	1852950.1629851	0361 Feb 06 17:52:14	007051	LTU	Asc.	-0.4212	2.1268	1.0444	358	211	034	14.9N	125.5E	14 12 361 C.E.
10434	Aug 03 361 C.E.	03:33:23	1853127.6481827	0361 Aug 03 05:30:47	007046	LTU	Dec.	0.3263	2.2317	1.2502	324	203	071	17.4S	52.5W	14 05 361 C.E.
10435	Jan 26 362 C.E.	20:35:03	1853304.3576696	0362 Jan 26 22:32:27	007042	LTU	Asc.	0.3015	2.3218	1.2882	342	213	07			

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes) Tot.	Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Year	Month	Day	Time (UT)								Year	Month		Day	Time (UT)	Pen.	Par.	Lat.	Lon.	Day	Month	Year		
10808	Sep	26	516	C.E.	19:36:51	1909796.3172554	0516	Sep	26	21:08:49	005518	LPU	Asc.	-0.7472	1.5317	0.4432	331	154	---	1.6N	63.8E	14	07	516	C.E.
10809	Mar	23	517	C.E.	18:33:57	1909794.2735715	0517	Mar	23	20:05:48	005513	LTU	Dec.	-0.0950	2.6679	1.6994	325	210	098	2.0S	83.0E	15	01	517	C.E.
10810	Sep	15	517	C.E.	22:36:17	1910150.4418621	0517	Sep	16	00:08:08	005508	LTU	Asc.	-0.0064	2.8673	1.8257	355	227	103	2.2S	19.5E	13	07	517	C.E.
10811	Mar	13	518	C.E.	06:50:40	1910328.7851832	0518	Mar	13	08:22:22	005503	LPU	Dec.	-0.8621	1.2875	0.2652	290	116	---	1.6N	100.6W	15	13	518	C.E.
10812	Sep	05	518	C.E.	09:00:54	1910504.8756285	0518	Sep	05	10:32:33	005498	LPU	Asc.	0.7150	1.5376	0.5544	293	151	---	5.8S	136.2W	13	06	518	C.E.
10813	Jan	31	519	C.E.	18:19:40	1910653.2636557	0519	Jan	31	19:51:15	005495	LNN	Dec.	1.3227	0.4802	-0.6171	208	---	---	17.9N	89.8E	14	11	519	C.E.
10814	Jul	27	519	C.E.	17:05:13	1910830.2119585	0519	Jul	27	18:36:43	005490	LNN	Asc.	-1.1450	0.7307	-0.2169	214	---	---	20.3S	105.1E	14	05	519	C.E.
10815	Aug	26	519	C.E.	00:41:49	1910859.5290342	0519	Aug	26	02:13:17	005489	LNN	Asc.	1.3869	0.2888	-0.6629	140	---	---	9.1S	11.0W	13	06	519	C.E.
10816	Jan	20	520	C.E.	18:00:34	1911007.2503902	0520	Jan	20	19:31:59	005485	LPU	Dec.	0.6246	1.7542	0.6705	340	180	---	20.3N	93.8E	14	11	520	C.E.
10817	Jul	16	520	C.E.	08:25:21	1911184.8509404	0520	Jul	16	09:56:40	005480	LTU	Asc.	-0.4367	2.0476	1.0658	320	195	039	21.7S	125.4W	14	05	520	C.E.
10818	Jan	08	521	C.E.	23:11:37	1911361.4664020	0521	Jan	09	00:42:55	005475	LTU	Dec.	-0.0995	2.6917	1.6597	346	221	099	21.9N	14.9E	13	11	521	C.E.
10819	Jul	05	521	C.E.	17:56:11	1911539.2473447	0521	Jul	05	19:27:19	005470	LTU	Asc.	0.3403	2.2512	1.2164	350	216	070	22.5S	91.3E	15	04	521	C.E.
10820	Dec	29	521	C.E.	11:18:42	1911715.9713177	0521	Dec	29	12:49:48	005466	LPU	Dec.	-0.7740	1.4295	0.4460	282	135	---	22.5N	168.1W	13	10	521	C.E.
10821	Jun	24	522	C.E.	20:34:22	1911893.3572014	0522	Jun	24	22:05:23	005461	LNN	Asc.	1.1271	0.8242	-0.2438	262	---	---	22.6S	51.1E	14	04	522	C.E.
10822	Nov	19	522	C.E.	15:56:05	1912041.1639440	0522	Nov	19	17:27:02	005457	LNN	Dec.	1.2736	0.5133	-0.4711	186	---	---	21.5N	118.0E	14	09	522	C.E.
10823	Dec	19	522	C.E.	02:52:33	1912070.6198253	0522	Dec	19	04:23:30	005457	LNN	Dec.	-1.4121	0.2529	-0.7191	132	---	---	22.2N	42.9W	14	10	522	C.E.
10824	May	15	523	C.E.	08:29:11	1912217.8535955	0523	May	15	10:00:03	005452	LPU	Asc.	-0.9204	1.1858	0.1530	289	091	---	20.0S	129.0W	13	03	523	C.E.
10825	Nov	09	523	C.E.	03:54:26	1912395.6627976	0523	Nov	09	05:25:13	005449	LPU	Dec.	0.6368	1.7068	0.6728	317	172	---	18.1N	62.1W	14	09	523	C.E.
10826	May	03	524	C.E.	18:12:46	1912572.2588625	0524	May	03	19:43:32	005444	LTU	Asc.	-0.1161	2.6348	1.6551	315	215	098	16.5S	85.4E	13	02	524	C.E.
10827	Oct	28	524	C.E.	08:53:24	1912749.8704114	0524	Oct	28	10:24:01	005440	LTU	Dec.	-0.0569	2.7968	1.7112	371	232	103	14.0N	136.9W	14	08	524	C.E.
10828	Jan	23	525	C.E.	09:40:52	1912926.2503830	0525	Jan	23	11:11:27	005435	LPU	Asc.	0.6222	1.6894	0.7429	291	161	---	12.5S	145.9W	13	02	525	C.E.
10829	Oct	17	525	C.E.	08:27:48	1913103.8526401	0525	Oct	17	09:58:18	005430	LPU	Dec.	-0.7520	1.5280	0.4295	333	152	---	9.4N	130.2W	13	08	525	C.E.
10830	Mar	14	526	C.E.	17:52:17	1913252.2446435	0526	Mar	14	19:22:44	005426	LNN	Asc.	-1.2453	0.5644	-0.4185	198	---	---	0.5N	93.2E	15	13	526	C.E.
10831	Apr	13	526	C.E.	02:38:24	1913281.6100028	0526	Apr	13	04:08:49	005425	LNN	Asc.	1.3434	0.3707	-0.5849	159	---	---	8.2S	39.4W	14	01	526	C.E.
10832	Sep	06	526	C.E.	19:56:05	1913428.8733613	0526	Sep	06	21:26:25	005421	LNN	Dec.	1.4086	0.2844	-0.7374	151	---	---	4.5S	59.8E	13	06	526	C.E.
10833	Oct	06	526	C.E.	09:50:50	1913457.9102983	0526	Oct	06	11:21:11	005420	LNN	Dec.	-1.4128	0.2960	-0.7640	159	---	---	4.6N	150.2W	13	07	526	C.E.
10834	Mar	04	527	C.E.	04:10:43	1913606.6741063	0527	Mar	04	05:40:58	005416	LPU	Asc.	-0.5609	1.8498	0.8082	332	188	---	5.4N	59.6W	15	12	527	C.E.
10835	Aug	27	527	C.E.	08:17:55	1913762.8457765	0527	Aug	27	09:48:08	005412	LPU	Dec.	0.6302	1.6859	0.7173	297	164	---	9.2S	124.7W	13	06	527	C.E.
10836	Feb	21	528	C.E.	07:04:38	1913960.7948841	0528	Feb	21	08:34:44	005407	LTU	Asc.	0.1606	2.6077	1.5199	374	232	098	10.2N	102.7W	14	12	528	C.E.
10837	Aug	16	528	C.E.	00:43:52	1914137.5304606	0528	Aug	16	02:13:54	005402	LTU	Dec.	-0.0910	2.6657	1.7159	317	205	097	13.5S	10.4W	14	06	528	C.E.
10838	Feb	09	529	C.E.	06:38:24	1914314.7766620	0529	Feb	09	08:08:21	005397	LPU	Asc.	0.8621	1.3199	0.2332	313	115	---	14.8N	95.2W	13	12	529	C.E.
10839	Aug	05	529	C.E.	16:36:49	1914492.1922320	0529	Aug	05	18:06:40	005392	LPU	Dec.	-0.8327	1.3175	0.3426	278	120	---	17.5S	111.9E	15	05	529	C.E.
10840	Dec	30	529	C.E.	20:44:20	1914639.3641193	0529	Dec	30	22:14:09	005389	LNN	Asc.	-1.3045	0.4725	-0.5436	187	---	---	21.8N	50.8E	13	10	529	C.E.
10841	Jan	29	530	C.E.	10:22:27	1914668.9322552	0530	Jan	29	11:52:15	005384	LNN	Asc.	1.5118	0.1049	-0.9363	094	---	---	18.8N	151.2W	13	11	530	C.E.
10842	Jun	26	530	C.E.	14:52:30	1914817.1197905	0530	Jun	26	16:22:14	005388	LNN	Dec.	1.1000	0.8635	-0.1837	260	---	---	22.5S	136.9E	14	04	530	C.E.
10843	Dec	20	530	C.E.	10:15:13	1914993.9272381	0530	Dec	20	11:44:53	005379	LPU	Asc.	-0.5892	1.7648	0.7888	298	169	---	23.0N	153.2W	13	10	530	C.E.
10844	Jun	15	531	C.E.	16:18:02	1915171.1719121	0531	Jun	15	17:47:36	005374	LTU	Asc.	0.3535	2.2443	1.1752	365	221	066	23.2S	114.9E	13	04	531	C.E.
10845	Dec	10	531	C.E.	01:54:49	1915348.5797387	0531	Dec	10	03:24:17	005369	LTU	Asc.	0.0746	2.7102	1.7319	322	209	097	23.3N	29.5W	14	10	531	C.E.
10846	Jun	03	532	C.E.	18:06:15	1915525.2543355	0532	Jun	03	19:35:41	005365	LPU	Dec.	-0.4169	2.1145	1.0720	349	210	043	23.1S	87.2E	14	03	532	C.E.
10847	Nov	28	532	C.E.	15:03:06	1915703.1271513	0532	Nov	28	16:32:25	005360	LPU	Asc.	0.7790	1.4397	0.4179	296	139	---	22.7N	132.0E	15	09	532	C.E.
10848	Apr	24	533	C.E.	17:38:11	1915850.2348516	0533	Apr	24	19:07:27	005356	LNN	Dec.	1.4264	0.2244	-0.7431	128	---	---	12.3S	95.1E	14	02	533	C.E.
10849	May	24	533	C.E.	02:19:55	1915879.5971640	0533	May	24	03:49:11	005356	LNN	Dec.	-1.1538	0.7353	-0.2535	227	---	---	22.2S	36.8W	13	03	533	C.E.
10850	Oct	19	533	C.E.	03:53:17	1916027.6619991	0533	Oct	19	05:22:28	005351	LNN	Asc.	-1.4585	0.2288	-0.8641	146	---	---	9.6N	61.2W	14	08	533	C.E.
10851	Nov	17	533	C.E.	21:41:14	1916057.4036333	0533	Nov	17	23:10:24	005351	LNN	Asc.	1.5292	0.0915	-0.9864	091	---	---	21.2N	31.3E	14	09	533	C.E.
10852	Apr	14	534	C.E.	09:55:44	1916204.9137079	0534	Apr	14	11:24:51	005347	LPU	Dec.	0.6785	1.5858	0.6399	285	151	---	9.4S	148.9W	14	01	534	C.E.
10853	Oct	08	534	C.E.	03:13:31	1916381.6343816	0534	Oct</																	

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar						
									Pen.	Par.	Lat.	Lon.	Day	Month	Year				
10915	Jun 05 559 C.E.	22:05:34	1925388.4205337	0559	Jun 05	23:30:37	005103	LNN	Asc.	-1.0744	0.8991	-0.1255	257	---	---	23.9S	27.5E	13 03	559 C.E.
10916	Nov 30 559 C.E.	20:56:32	1925566.3725916	0559	Nov 30	22:21:29	005098	LPU	Dec.	0.6479	1.6904	0.6483	319	170	---	22.9N	44.0E	15 09	559 C.E.
10917	May 25 560 C.E.	08:47:59	1925742.8666575	0560	May 25	10:12:55	005094	LPU	Asc.	-0.2624	2.3621	-1.3908	325	207	084	21.7S	133.5W	13 03	560 C.E.
10918	Nov 19 560 C.E.	01:02:32	1925920.5434283	0560	Nov 19	02:27:19	005089	LPU	Dec.	-0.0373	2.8365	1.7435	373	233	104	20.2N	18.4W	14 09	560 C.E.
10919	May 15 561 C.E.	00:51:38	1926097.5358525	0561	May 15	02:16:22	005084	LPU	Asc.	0.4851	1.9387	0.9967	301	179	---	18.8S	14.4W	14 03	561 C.E.
10920	Nov 08 561 C.E.	00:13:17	1926274.5092224	0561	Nov 08	01:37:57	005080	LPU	Dec.	-0.7196	1.5890	0.4873	337	160	---	16.7N	6.6W	14 09	561 C.E.
10921	Apr 05 562 C.E.	09:25:56	1926422.8930054	0562	Apr 05	10:50:31	005076	LNN	Asc.	-1.3519	0.3688	-0.6141	164	---	---	8.0S	141.4W	14 01	562 C.E.
10922	May 04 562 C.E.	17:51:11	1926452.2438778	0562	May 04	19:15:46	005075	LNN	Asc.	1.2234	0.5909	-0.3647	197	---	---	15.4S	91.1E	15 02	562 C.E.
10923	Sep 28 562 C.E.	11:45:57	1926598.9902480	0562	Sep 28	13:10:29	005072	LNN	Dec.	1.4662	0.1786	-0.8429	120	---	---	4.2N	179.3W	12 07	562 C.E.
10924	Oct 28 562 C.E.	01:59:18	1926628.5828435	0562	Oct 28	03:23:48	005071	LNN	Dec.	-1.3698	0.3747	-0.6848	177	---	---	12.6N	33.1W	13 08	562 C.E.
10925	Mar 25 563 C.E.	19:11:18	1926777.2995192	0563	Mar 25	20:35:44	005067	LPU	Asc.	-0.6601	1.6678	0.6263	324	172	---	3.2S	73.4E	15 01	563 C.E.
10926	Sep 18 563 C.E.	00:29:24	1926953.5204145	0563	Sep 18	01:53:47	005062	LPU	Dec.	0.7065	1.5467	0.5763	288	149	---	0.8S	9.2W	13 07	563 C.E.
10927	Mar 13 564 C.E.	21:41:16	1927131.4036620	0564	Mar 13	23:05:32	005057	LPU	Asc.	0.0713	2.7691	1.6860	375	235	104	1.8N	37.1E	14 13	564 C.E.
10928	Sep 06 564 C.E.	16:47:59	1927308.1999877	0564	Sep 06	18:12:11	005052	LPU	Dec.	0.0017	2.8329	1.8765	319	206	099	5.6S	107.2E	14 06	564 C.E.
10929	Mar 02 565 C.E.	21:40:07	1927485.4028555	0565	Mar 02	23:04:14	005047	LPU	Asc.	0.7880	1.4507	0.3743	322	142	---	6.8N	38.4E	14 12	565 C.E.
10930	Aug 27 565 C.E.	08:01:11	1927662.8341550	0565	Aug 27	09:25:13	005043	LPU	Dec.	-0.7303	1.5109	0.5249	293	149	---	10.2S	120.2W	14 06	565 C.E.
10931	Jan 21 566 C.E.	13:51:10	1927810.0771947	0566	Jan 21	15:15:09	005039	LNN	Asc.	-1.3140	0.4505	-0.5563	181	---	---	18.1N	155.8E	13 11	566 C.E.
10932	Feb 20 566 C.E.	02:28:22	1927839.6030299	0566	Feb 20	03:52:21	005039	LNN	Asc.	1.4559	0.2013	-0.8277	128	---	---	11.6N	32.8W	13 12	566 C.E.
10933	Jul 18 566 C.E.	04:14:05	1927987.6744443	0566	Jul 18	05:38:00	005035	LNN	Dec.	1.2636	0.5675	-0.4879	219	---	---	19.9S	62.8W	14 05	566 C.E.
10934	Aug 16 566 C.E.	17:48:00	1928017.2416697	0566	Aug 16	19:11:54	005034	LNN	Dec.	-1.5296	0.0707	-0.9675	079	---	---	14.7S	93.9E	15 06	566 C.E.
10935	Jan 11 567 C.E.	03:56:44	1928164.6643942	0567	Jan 11	05:20:34	005030	LPU	Asc.	-0.5989	1.7448	0.7733	296	167	---	21.0N	56.2W	14 11	567 C.E.
10936	Jul 07 567 C.E.	05:10:26	1928341.7155797	0567	Jul 07	06:34:11	005025	LPU	Dec.	0.5262	1.9280	0.8576	353	200	---	22.2S	77.1W	14 04	567 C.E.
10937	Dec 31 567 C.E.	19:40:14	1928519.3196116	0567	Dec 31	21:03:53	005020	LPU	Asc.	0.0690	2.7213	1.7416	323	209	098	23.1N	66.9E	15 01	568 C.E.
10938	Jun 25 568 C.E.	07:29:22	1928695.8120636	0568	Jun 25	08:53:00	005016	LPU	Dec.	-0.2474	2.4229	1.3858	355	223	088	23.8S	112.4W	13 04	568 C.E.
10939	Dec 20 568 C.E.	08:20:48	1928873.8477786	0568	Dec 20	09:44:18	005011	LPU	Asc.	0.7798	1.4410	0.4134	298	139	---	24.4N	124.6W	14 10	568 C.E.
10940	Jun 14 569 C.E.	16:39:19	1929050.1939698	0569	Jun 14	18:02:47	005007	LPU	Dec.	-0.9947	1.0237	0.0419	257	035	---	24.5S	109.4E	12 04	569 C.E.
10941	Nov 09 569 C.E.	19:43:59	1929198.3222078	0569	Nov 09	21:07:21	005002	LNN	Asc.	-1.4915	0.1718	-0.9281	128	---	---	16.6N	61.1E	14 09	569 C.E.
10942	Dec 09 569 C.E.	14:11:15	1929228.0911421	0569	Dec 09	15:34:36	005002	LNN	Asc.	1.5259	0.1005	-0.9833	096	---	---	24.7N	146.2E	14 10	569 C.E.
10943	May 06 570 C.E.	01:15:42	1929375.5525723	0570	May 06	02:39:00	004998	LPU	Dec.	0.8092	1.3440	0.4020	270	120	---	16.2S	20.0W	14 02	570 C.E.
10944	Oct 29 570 C.E.	18:54:15	1929552.2876704	0570	Oct 29	20:17:29	004994	LPU	Asc.	-0.8162	1.4071	0.3144	321	131	---	13.8N	73.1E	14 08	570 C.E.
10945	Apr 25 571 C.E.	17:38:26	1929730.2350229	0571	Apr 25	19:01:33	004989	LPU	Dec.	0.0830	2.6899	1.7214	327	212	099	13.7S	94.4E	15 02	571 C.E.
10946	Oct 18 571 C.E.	22:35:39	1929906.4414275	0571	Oct 18	23:58:46	004984	LPU	Asc.	-0.0883	2.7167	1.6756	351	224	100	10.5N	17.6E	13 08	571 C.E.
10947	Apr 14 572 C.E.	05:08:21	1930084.7141375	0572	Apr 14	06:31:20	004979	LPU	Dec.	-0.7010	1.5839	0.5600	314	162	---	10.8S	77.7W	15 01	572 C.E.
10948	Oct 07 572 C.E.	09:41:32	1930260.9038373	0572	Oct 07	11:04:27	004974	LPU	Asc.	0.6149	1.7219	0.7374	301	169	---	7.1N	148.7W	13 07	572 C.E.
10949	Mar 04 573 C.E.	16:46:36	1930409.1990228	0573	Mar 04	18:09:26	004970	LNN	Dec.	1.4278	0.2828	-0.8055	162	---	---	6.5N	112.1E	14 12	573 C.E.
10950	Apr 03 573 C.E.	09:17:10	1930438.8869192	0573	Apr 03	10:40:00	004970	LNN	Dec.	-1.4914	0.1576	-0.9139	121	---	---	7.3S	139.4W	14 01	573 C.E.
10951	Aug 28 573 C.E.	16:36:25	1930586.1919608	0573	Aug 28	17:59:12	004966	LNN	Asc.	-1.3102	0.4332	-0.5256	170	---	---	10.2S	111.4E	14 06	573 C.E.
10952	Sep 27 573 C.E.	01:21:28	1930615.5565789	0573	Sep 27	02:44:14	004966	LNN	Asc.	1.2751	0.4982	-0.4616	180	---	---	3.5N	23.3W	13 07	573 C.E.
10953	Feb 21 574 C.E.	17:24:23	1930763.2252615	0574	Feb 21	18:47:06	004962	LPU	Dec.	0.6977	1.6119	0.5444	328	165	---	10.2N	103.0E	14 12	574 C.E.
10954	Aug 18 574 C.E.	06:47:31	1930940.7829943	0574	Aug 18	08:10:06	004957	LPU	Asc.	-0.6297	1.7018	0.7032	310	172	---	13.3S	101.1W	14 06	574 C.E.
10955	Feb 11 575 C.E.	00:08:53	1931117.5061731	0575	Feb 11	01:31:27	004952	LPU	Dec.	-0.0499	2.7742	1.7589	341	220	101	13.4N	1.9E	13 12	575 C.E.
10956	Aug 07 575 C.E.	14:38:40	1931295.1101798	0575	Aug 07	16:01:04	004947	LPU	Asc.	0.1213	2.6610	1.6104	362	229	101	16.1S	141.2E	14 05	575 C.E.
10957	Jan 31 576 C.E.	13:25:05	1931472.0590911	0576	Jan 31	14:47:29	004943	LPU	Dec.	-0.7385	1.4892	0.5164	284	142	---	16.2N	162.6E	13 11	576 C.E.
10958	Jul 26 576 C.E.	16:08:28	1931649.1725454	0576	Jul 26	17:30:46	004938	LPU	Asc.	0.8845	1.2728	0.1980	311	107	---	18.4S	118.6E	13 05	576 C.E.
10959	Dec 21 576 C.E.	18:27:49	1931798.2639213	0576	Dec 21	19:50:03	004934	LNN	Dec.	1.2876	0.4908	-0.4998	184	---	---	24.9N	84.0E	15 10	576 C.E.
10960	Jan 20 577 C.E.	05:21:42	1931826.7234006	0577	Jan 20	06:43:56	004934	LNN	Dec.	-1.3963	0.2811	-0.6892	139	---	---	18.3N	77.2W	14 11	577 C.E.
10961	Jun 16 577 C.E.	04:56:07	1931973.7056337	0577	Jun 16	06:18:17	004930	LNN	Asc.	-1.1505	0.7578	-0.2635	239	---	---	24.6S	74.5W	13 04	577 C.E.
10962	Dec 11 577 C.E.	05:27:49	1932151.7276461	0577	Dec 11	06:49:52	004925	LPU	Dec.	0.6523	1.6840	0.6387	320	170	---	24.0N	82.5W	14 10	577 C.E.
10963	Jun 05 578 C.E.	16:04:50	1932238.1700254	0578	Jun 05	17:26:52	004920	LPU	Asc.	-0.3375	2.2227	1.2547	321	201	071	23.2S	117.0E	13 03	578 C.E.
10964	Nov 30 578 C.E.	09:11:21	1932505.8828830	0578	Nov 30	10:33:16	004917	LPU	Dec.	-0.0318	2.8480	1.7524	374	233	104	22.2N	139.7W	14 09	578 C.E.
10965	May 26 579 C.E.	08:21:15	1932682.8480955	0579	May 26	09:43:07	004912	LPU	Asc.	0.4114	2.0732	1.1325	306	187	052	21.0S	126.7W	13 03	579 C.E.
10966	Nov 19 579 C.E.	08:15:19	1932859.8439747	0579	Nov 19	09:37:07	004907	LPU	Dec.	-0.7104	1.								

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Year	Month	Day	Time (UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year							
11022	Mar	24	601	C.E.	12:10:48	1940656.0075037	0601	Mar	24	13:29:14	004704	LPU	Asc.	0.6859	1.6325	0.5672	332	169	---	1.8S	178.9E	13	01	601	C.E.
11023	Sep	17	601	C.E.	23:52:30	1940833.4947944	0601	Sep	18	01:10:48	004699	LPU	Dec.	-0.6534	1.6581	0.6600	305	167	---	1.7S	0.4E	14	07	601	C.E.
11024	Feb	12	602	C.E.	06:36:25	1940980.7752854	0602	Feb	12	07:54:40	004695	LNN	Asc.	-1.3430	0.3919	-0.6041	169	---	---	11.6N	95.3W	13	12	602	C.E.
11025	Mar	13	602	C.E.	18:05:48	1941010.2540330	0602	Mar	13	19:24:02	004694	LNN	Asc.	1.3739	0.3452	-0.6708	164	---	---	3.1N	91.4E	13	13	602	C.E.
11026	Aug	08	602	C.E.	17:51:36	1941158.2441613	0602	Aug	08	19:09:45	004690	LNN	Dec.	1.4093	0.3050	-0.7600	165	---	---	14.4S	92.6E	15	05	602	C.E.
11027	Sep	07	602	C.E.	08:32:23	1941187.8558160	0602	Sep	07	09:50:33	004690	LNN	Dec.	-1.4381	0.2450	-0.8059	145	---	---	6.7S	128.5W	14	06	602	C.E.
11028	Feb	01	603	C.E.	21:20:31	1941335.3892486	0603	Feb	01	22:38:37	004686	LPU	Asc.	-0.6238	1.6962	0.7305	293	162	---	15.7N	43.9E	14	11	603	C.E.
11029	Jul	28	603	C.E.	18:19:36	1941512.2636079	0603	Jul	28	19:37:38	004682	LPU	Dec.	0.6848	1.6382	0.5654	337	171	---	18.1S	86.0E	14	05	603	C.E.
11030	Jan	22	604	C.E.	13:10:15	1941690.0487881	0604	Jan	22	14:28:10	004677	LPU	Asc.	0.0520	2.7523	1.7727	324	210	098	19.3N	166.3E	14	11	604	C.E.
11031	Jul	16	604	C.E.	21:10:14	1941866.3821067	0604	Jul	16	22:28:08	004672	LTU	Dec.	-0.0888	2.7121	1.6785	356	228	102	21.2S	43.3E	13	05	604	C.E.
11032	Jan	11	605	C.E.	01:26:01	1942004.5597340	0605	Jan	11	02:43:47	004667	LPU	Asc.	0.7733	1.4548	0.4238	301	142	---	22.2N	18.4W	15	11	605	C.E.
11033	Jul	06	605	C.E.	07:08:44	1942220.7977324	0605	Jul	06	08:26:28	004663	LPU	Dec.	-0.8394	1.3064	0.3293	280	119	---	23.5S	106.7W	13	04	605	C.E.
11034	Dec	01	605	C.E.	11:51:26	1942368.9940522	0605	Dec	01	13:09:05	004659	LNN	Asc.	-1.5093	0.1412	-0.9628	116	---	---	21.1N	179.2W	14	09	605	C.E.
11035	Dec	31	605	C.E.	06:36:49	1942398.7755683	0605	Dec	31	07:54:29	004659	LNN	Asc.	1.5210	0.1110	-0.9758	102	---	---	24.4N	97.3W	14	10	605	C.E.
11036	May	27	606	C.E.	16:19:40	1942546.1803201	0606	May	27	17:37:15	004655	LPU	Dec.	0.9529	1.0796	0.1388	249	060	---	20.8S	114.0E	13	03	606	C.E.
11037	Jun	25	606	C.E.	22:52:45	1942575.4533025	0606	Jun	26	00:10:19	004654	LNN	Dec.	-1.5279	0.0254	-0.9167	042	---	---	25.1S	16.7E	14	04	606	C.E.
11038	Nov	20	606	C.E.	11:01:22	1942722.9592877	0606	Nov	20	12:18:53	004650	LPU	Asc.	-0.8533	1.3720	0.2796	317	124	---	19.8N	167.8W	13	09	606	C.E.
11039	Jul	17	607	C.E.	08:28:15	1942900.8529470	0607	Jul	17	09:45:39	004646	LTU	Dec.	0.2259	2.4289	1.4578	326	208	089	19.5S	128.5W	14	03	607	C.E.
11040	Nov	09	607	C.E.	15:17:35	1943077.1372060	0607	Nov	09	16:34:59	004642	LPU	Asc.	-0.1116	2.6729	1.6339	348	222	099	17.7N	127.2E	13	09	607	C.E.
11041	May	05	608	C.E.	19:16:35	1943255.3031863	0608	May	05	20:33:51	004637	LPU	Dec.	-0.5618	1.8406	0.8142	330	189	---	17.6S	69.2E	15	02	608	C.E.
11042	Oct	29	608	C.E.	02:49:44	1943431.6178666	0608	Oct	29	04:06:57	004633	LPU	Asc.	0.5800	1.7862	0.8013	303	173	---	15.0N	46.3W	13	08	608	C.E.
11043	Mar	26	609	C.E.	06:58:51	1943579.7908735	0609	Mar	26	08:16:00	004629	LNN	Dec.	1.5326	0.0869	-0.9944	091	---	---	1.9S	102.8W	14	01	609	C.E.
11044	Apr	24	609	C.E.	22:50:43	1943609.4518827	0609	Apr	25	00:07:50	004628	LNN	Dec.	-1.3556	0.4057	-0.6635	191	---	---	14.9S	15.8E	14	02	609	C.E.
11044	Sep	19	609	C.E.	08:51:59	1943756.8694325	0609	Sep	19	10:09:03	004624	LNN	Asc.	-1.3913	0.2890	-0.6788	142	---	---	1.8S	134.1W	14	07	609	C.E.
11046	Oct	18	609	C.E.	18:26:29	1943786.2683959	0609	Oct	18	19:43:32	004623	LNN	Asc.	1.2323	0.5796	-0.3859	193	---	---	12.0N	179.3E	14	08	609	C.E.
11047	Mar	15	610	C.E.	08:22:32	1943933.8489837	0610	Mar	15	09:39:32	004619	LPU	Dec.	0.7807	1.4536	0.3982	315	143	---	1.9N	123.0W	13	13	610	C.E.
11048	Sep	08	610	C.E.	22:11:46	1944111.4248377	0610	Sep	08	23:28:40	004615	LPU	Asc.	-0.7300	1.5242	0.5130	302	153	---	5.4S	26.4E	15	06	610	C.E.
11049	Mar	04	611	C.E.	16:14:57	1944288.1770459	0611	Mar	04	17:31:50	004610	LTU	Dec.	0.0143	2.8334	1.8304	338	220	101	5.5N	119.4E	14	12	611	C.E.
11050	Aug	29	611	C.E.	04:52:58	1944465.7034487	0611	Aug	29	06:09:42	004606	LPU	Asc.	0.0000	2.8893	1.8272	366	232	105	8.9S	73.4W	14	06	611	C.E.
11051	Feb	22	612	C.E.	06:19:46	1944642.7637225	0612	Feb	22	07:36:27	004601	LPU	Dec.	-0.6888	1.5763	0.6116	287	151	---	8.9N	91.5W	13	12	612	C.E.
11052	Aug	17	612	C.E.	05:40:33	1944819.7364907	0612	Aug	17	06:57:10	004597	LPU	Asc.	0.7444	1.5328	0.4523	332	156	---	12.2S	85.0W	13	06	612	C.E.
11053	Jan	12	613	C.E.	11:58:14	1944967.9987740	0613	Jan	12	13:14:47	004593	LNN	Dec.	1.3046	0.4604	-0.5320	180	---	---	22.5N	176.0W	14	11	613	C.E.
11054	Feb	10	613	C.E.	22:32:58	1944997.4395550	0613	Feb	10	23:49:29	004592	LNN	Dec.	-1.3651	0.3370	-0.6307	152	---	---	12.0N	25.3E	14	12	613	C.E.
11055	Jul	07	613	C.E.	18:47:00	1945144.2826358	0613	Jul	07	20:03:28	004588	LNN	Asc.	-1.2966	0.4870	-0.5291	195	---	---	23.7S	79.1E	13	04	613	C.E.
11056	Aug	06	613	C.E.	07:12:00	1945173.7999975	0613	Aug	06	08:28:26	004588	LNN	Asc.	1.4515	0.2194	-0.8295	139	---	---	15.1S	107.7W	13	05	613	C.E.
11057	Jan	01	614	C.E.	22:25:29	1945322.4433666	0614	Jan	01	23:41:51	004583	LPU	Dec.	0.6633	1.6661	0.6163	321	168	---	23.4N	25.9E	15	10	614	C.E.
11058	Jun	27	614	C.E.	06:43:24	1945498.7801336	0614	Jun	27	07:59:44	004579	LPU	Asc.	-0.4857	1.9483	0.9851	310	185	---	23.9S	100.7W	13	04	614	C.E.
11059	Dec	22	614	C.E.	01:28:35	1945676.5615140	0614	Dec	22	02:44:47	004575	LTU	Dec.	-0.0211	2.8690	1.7705	376	234	104	23.6N	21.4W	14	10	614	C.E.
11060	Jun	16	615	C.E.	23:20:40	1945853.4726850	0615	Jun	17	00:36:50	004570	LPU	Asc.	0.2633	2.3445	1.4046	312	198	083	23.3S	9.3E	14	04	615	C.E.
11061	Dec	11	615	C.E.	00:27:47	1946030.5192906	0615	Dec	11	01:43:53	004565	LPU	Dec.	-0.6972	1.6296	0.5288	338	165	---	22.7N	7.6W	14	10	615	C.E.
11062	Jun	05	616	C.E.	16:05:20	1946200.1703687	0616	Jun	05	17:21:19	004560	LNN	Asc.	0.0174	0.9712	0.0110	245	023	---	0.1N	117.6E	14	03	616	C.E.
11063	Oct	30	616	C.E.	12:40:01	1946355.0277921	0616	Oct	30	13:55:59	004557	LNN	Dec.	1.5042	0.1081	-0.9119	093	---	---	16.4N	166.0E	12	08	616	C.E.
11064	Nov	29	616	C.E.	03:02:32	1946384.6267561	0616	Nov	29	04:18:28	004556	LNN	Dec.	-1.3395	0.4280	-0.6269	186	---	---	20.9N	47.5W	13	09	616	C.E.
11065	Apr	26	617	C.E.	16:30:46	1946533.1880269	0617	Apr	26	17:46:38	004553	LPU	Asc.	-0.8606	1.3006	0.2577	302	118	---	15.2S	111.1E	15	02	617	C.E.
11066	Oct	20	617	C.E.	01:51:19	1946709.5730335	0617	Oct	20	03:07:07	004548	LPU	Dec.	0.7714	1.4292	0.4557	280	134	---	12.1N	31.6W	13	08	617	C.E.
11067	Apr	15	618	C.E.	18:26:14	1946887.2682227	0618	Apr	15	19:41:57	004543	LTU	Asc.	-0.118											

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Delta T (seconds)		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Year	Month	Day	Time	Year	Month	Day	Time						Pen.	Par.	Pen.	Par.	Lat.	Lon.	Day	Month	Year	Day	Month	Year	
11236	Mar	26	685	C.E.	07:20:14	1971338	8057154	0685	Mar	26	08:25:40	003926	LNN	Dec.	-1.2310	0.5805	-0.3823	196	---	---	4.5S	109.4W	14	01	685	C.E.
11237	Apr	19	685	C.E.	23:48:11	1971485	4917935	0685	Aug	20	00:53:33	003922	LNN	Asc.	-1.5346	0.0480	-0.9634	063	---	---	13.1S	4.0E	13	06	685	C.E.
11238	Sep	18	685	C.E.	12:40:00	1971515	0277733	0685	Sep	18	13:45:20	003921	LNN	Asc.	-1.2308	0.6248	-0.4248	223	---	---	0.3N	167.7E	12	07	685	C.E.
11239	Feb	14	686	C.E.	07:09:58	1971663	7985830	0686	Feb	14	08:15:14	003917	LPU	Dec.	0.7361	1.5338	0.4814	317	154	---	12.6N	103.1W	14	12	686	C.E.
11240	Aug	09	686	C.E.	12:53:14	1971840	0369648	0686	Aug	09	13:58:28	003913	LPU	Asc.	-0.7468	1.4679	0.5071	283	140	---	15.9S	167.8E	13	05	686	C.E.
11241	Feb	03	687	C.E.	09:15:50	1972017	8859965	0687	Feb	03	10:20:58	003908	LTU	Dec.	0.0364	2.8393	1.7440	377	235	105	15.7N	134.8W	14	11	687	C.E.
11242	Jul	30	687	C.E.	05:40:39	1972194	7365641	0687	Jul	30	06:45:44	003904	LTU	Asc.	-0.0161	2.8014	1.8552	318	206	099	18.2S	84.1W	14	05	687	C.E.
11243	Jan	23	688	C.E.	08:40:48	1972371	8616612	0688	Jan	23	09:45:48	003900	LPU	Dec.	-0.6545	1.7018	0.6130	340	175	---	18.3N	126.6W	13	11	688	C.E.
11244	Jul	18	688	C.E.	21:30:02	1972549	3958604	0688	Jul	18	22:34:57	003895	LPU	Asc.	0.7369	1.4932	0.5183	291	146	---	19.9S	38.2E	15	05	688	C.E.
11245	Dec	12	688	C.E.	23:14:42	1972696	4685427	0688	Dec	13	00:19:35	003892	LNN	Dec.	1.5017	0.1088	-0.9033	092	---	---	25.0N	11.1E	13	10	688	C.E.
11246	Jan	11	689	C.E.	12:53:07	1972726	0368832	0689	Jan	11	13:57:58	003891	LNN	Dec.	-1.3085	0.4772	-0.5626	193	---	---	20.1N	169.5E	13	11	689	C.E.
11247	Jun	08	689	C.E.	19:21:13	1972874	3063978	0689	Jun	08	20:25:59	003887	LNN	Asc.	-1.1912	0.6974	-0.3522	239	---	---	24.3S	68.9E	15	03	689	C.E.
11248	Jul	08	689	C.E.	07:59:11	1972903	8327711	0689	Jul	08	09:03:58	003886	LNN	Asc.	1.5562	0.0164	-1.0108	038	---	---	20.9S	119.5W	14	04	689	C.E.
11249	Dec	02	689	C.E.	13:07:36	1973051	0469502	0689	Dec	02	14:12:20	003883	LPU	Dec.	0.7931	1.3898	0.4154	276	128	---	23.5S	161.5E	13	09	689	C.E.
11250	May	28	690	C.E.	20:32:47	1973228	3561052	0690	May	28	21:37:27	003879	LPU	Asc.	-0.4462	2.0742	1.0052	359	211	012	22.4S	50.5E	14	03	690	C.E.
11251	Nov	22	690	C.E.	04:46:05	1973405	6986697	0690	Nov	22	05:50:38	003874	LTU	Dec.	0.1330	2.6040	1.6238	322	208	095	21.1N	74.1W	14	09	690	C.E.
11252	May	17	691	C.E.	22:38:45	1973582	4435746	0691	May	17	23:43:17	003870	LPU	Asc.	0.3255	2.2810	1.2410	353	218	074	19.7S	18.9E	13	03	691	C.E.
11253	Nov	11	691	C.E.	17:28:36	1973760	2281941	0691	Nov	11	18:32:59	003865	LPU	Dec.	-0.5698	1.8255	0.7998	320	182	---	17.9N	94.6E	15	09	691	C.E.
11254	Apr	06	692	C.E.	22:31:03	1973937	4382303	0692	Apr	06	23:35:25	003862	LNN	Asc.	-1.5215	0.0502	-0.9180	061	---	---	9.4S	22.0E	13	01	692	C.E.
11255	May	06	692	C.E.	07:22:53	1973936	8075527	0692	May	06	08:27:14	003861	LNN	Asc.	1.0645	0.8981	-0.0886	245	---	---	16.4S	111.9W	13	02	692	C.E.
11256	Oct	30	692	C.E.	23:28:49	1974114	4783448	0692	Oct	31	00:33:06	003857	LNN	Dec.	-1.3169	0.4817	-0.5976	203	---	---	14.1N	4.4E	14	08	692	C.E.
11257	Mar	27	693	C.E.	14:47:04	1974262	1160228	0693	Mar	27	15:51:17	003853	LPU	Asc.	-0.7916	1.3804	0.4301	273	125	---	4.7S	139.1E	13	01	693	C.E.
11258	Sep	20	693	C.E.	05:35:54	1974438	7332596	0693	Sep	20	06:40:02	003849	LPU	Dec.	0.9665	1.1259	0.0441	295	051	---	0.9N	86.2W	13	07	693	C.E.
11259	Mar	17	694	C.E.	06:49:17	1974616	7842257	0694	Mar	17	07:53:19	003844	LTU	Asc.	-0.0870	2.6865	1.7099	327	212	098	0.1N	100.3W	14	01	694	C.E.
11260	Sep	09	694	C.E.	09:40:32	1974792	9031461	0694	Sep	09	10:44:34	003840	LTU	Dec.	0.2092	2.4897	1.4590	348	220	092	4.1S	146.2W	13	07	694	C.E.
11261	Mar	06	695	C.E.	18:03:26	1974971	2523867	0695	Mar	06	19:07:20	003835	LPU	Asc.	0.6691	1.6471	0.6138	318	168	---	5.0N	92.2E	15	13	695	C.E.
11262	Aug	29	695	C.E.	21:10:17	1975147	3821463	0695	Aug	29	22:14:09	003831	LPU	Dec.	-0.5268	1.8785	0.9040	308	181	---	8.9S	42.3E	13	06	695	C.E.
11263	Jan	25	696	C.E.	03:51:34	1975295	6608149	0696	Jan	25	04:55:23	003829	LNN	Asc.	-1.5616	0.0434	-1.0569	065	---	---	17.0N	52.7W	14	11	696	C.E.
11264	Feb	23	696	C.E.	21:53:23	1975325	4120724	0696	Feb	23	22:57:10	003828	LNN	Asc.	1.4326	0.2714	-0.8120	158	---	---	9.9N	35.7E	15	12	696	C.E.
11265	Jul	20	696	C.E.	05:54:00	1975472	7458375	0696	Jul	20	06:57:44	003824	LNN	Dec.	1.3119	0.4251	-0.5237	168	---	---	19.0S	87.7W	14	05	696	C.E.
11266	Aug	18	696	C.E.	13:19:33	1975502	0524441	0696	Aug	18	14:23:17	003823	LNN	Dec.	-1.2149	0.6033	-0.3459	196	---	---	13.4S	160.8E	13	06	696	C.E.
11267	Jan	13	697	C.E.	03:55:47	1975649	6637408	0697	Jan	13	04:59:28	003820	LPU	Asc.	-0.8601	1.3197	0.2408	308	115	---	20.2N	55.8W	13	11	697	C.E.
11268	Jul	09	697	C.E.	20:41:42	1975747	3622881	0697	Jul	09	21:45:15	003815	LPU	Dec.	0.6114	1.7302	0.7422	310	174	---	21.5S	50.3E	15	04	697	C.E.
11269	Jan	02	698	C.E.	10:08:42	1976003	9227103	0698	Jan	02	11:12:16	003811	LTU	Asc.	-0.1280	2.6355	1.6110	342	219	097	22.6N	150.0W	13	10	698	C.E.
11270	Jun	29	698	C.E.	05:12:55	1976181	7137029	0698	Jun	29	06:16:20	003807	LTU	Dec.	-0.1586	2.5877	1.5467	359	228	099	23.4S	78.0W	14	04	698	C.E.
11271	Dec	22	698	C.E.	23:00:47	1976358	4988829	0698	Dec	23	00:04:10	003802	LPU	Asc.	0.5538	1.8316	0.8521	302	175	---	24.1N	15.7E	13	10	698	C.E.
11272	Jun	18	699	C.E.	07:11:39	1976535	7997569	0699	Jun	18	08:14:57	003798	LPU	Dec.	-0.9386	1.1706	0.1017	301	078	---	24.4S	108.4W	14	04	699	C.E.
11273	Nov	13	699	C.E.	03:34:04	1976683	6486532	0699	Nov	13	04:37:18	003794	LNN	Asc.	-1.4910	0.1167	-0.8723	093	---	---	17.5N	56.2W	14	09	699	C.E.
11274	Dec	12	699	C.E.	14:39:54	1976713	1110464	0699	Dec	12	15:43:08	003794	LNN	Asc.	1.2042	0.6357	-0.3389	202	---	---	24.7N	139.4E	14	10	699	C.E.
11275	May	07	700	C.E.	19:55:33	1976860	3302414	0700	May	07	20:58:44	003790	LNN	Dec.	1.0903	0.8708	-0.1555	254	---	---	16.9S	60.1E	13	02	700	C.E.
11276	Nov	01	700	C.E.	14:43:08	1977038	1328276	0700	Nov	01	15:46:12	003785	LPU	Dec.	-0.8672	1.2876	0.2465	292	112	---	15.1N	135.9E	14	08	700	C.E.
11277	Apr	27	701	C.E.	06:35:08	1977214	7744039	0701	Apr	27	07:38:12	003782	LTU	Dec.	0.2845	2.3230	1.3487	325	205	081	14.5S	99.8W	13	02	701	C.E.
11278	Oct	21	701	C.E.	18:43:02	1977392	2798849	0701	Oct	21	19:45:58	003777	LTU	Dec.	-0.1827	2.5677	1.4786	371	229	095	12.0N	75.7E	14	08	701	C.E.
11279	Apr	16	702	C.E.	22:28:34	1977569	4365005	0702	Apr	16	23:31:27	003773	LTU	Dec.	-0.4536	1.9988	1.0523	304	183	034	11.7S	22.1E	14	02	702	C.E.
11280	Oct	10	702	C.E.	18:07:14	1977746	2550274	0702																		

7000 Year Canon of Lunar Eclipses

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Table with columns: Lunar Eclipse Number, Calendar Date and Time (UT), Astronomical Julian Date (UT), (TD) Date and Time of Maximum Eclipse, Lunar Eclipse Type, Node, Gamma, Pen. Mag., Umb. Mag., Eclipse Durations, Phase (minutes), Greatest in Zenith Lat., Hebrew Date on the Creation Calendar, and Date on the Hebrew Calendar. Rows include lunar eclipses 11771 through 11877.

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Year	Month	Day	Time (UT)			Year	Month	Day	Time (UT)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen. Par.	Minutes Tot.	Lat.	Lon.	Day	Month	Year			
11878	Dec	18	959	C.E.	01:45:36	2071683.5733317	0959	Dec	18	02:15:31	001795	LNN	Asc.	1.0505	0.9804	-0.1183	281	---	---	24.5N	26.2W	14	10	959	C.E.
11879	May	13	960	C.E.	18:07:34	2071831.2552575	0960	May	13	18:37:28	001793	LNN	Dec.	1.2684	0.5036	-0.4427	182	---	---	18.5S	87.2E	15	03	960	C.E.
11880	Jun	12	960	C.E.	00:47:56	2071860.5332865	0960	Jun	12	01:17:48	001792	LNN	Dec.	-1.2223	0.5848	-0.3548	193	---	---	24.7S	12.6W	14	04	960	C.E.
11881	Nov	06	960	C.E.	06:36:34	2072007.7753930	0960	Nov	06	07:06:24	001790	LNN	Asc.	-1.2977	0.5159	-0.5611	209	---	---	16.6N	102.3W	13	09	960	C.E.
11882	May	03	961	C.E.	09:06:46	2072185.8796965	0961	May	03	09:36:32	001787	LPU	Dec.	0.5637	1.8175	0.8300	313	181	---	16.6S	137.7W	14	02	961	C.E.
11883	Oct	26	961	C.E.	13:11:40	2072362.0497683	0961	Oct	26	13:41:25	001784	LPU	Asc.	-0.5456	1.8662	0.8477	320	185	---	13.9N	158.5E	12	08	961	C.E.
11884	Apr	22	962	C.E.	17:46:46	2072540.2408157	0962	Apr	22	18:16:25	001781	LTU	Dec.	-0.2025	2.5089	1.4644	358	225	094	14.1S	92.3E	15	02	962	C.E.
11885	Oct	16	962	C.E.	02:30:33	2072716.6045535	0962	Oct	16	03:00:12	001778	LTU	Asc.	0.1671	2.5372	1.5655	320	206	092	10.9N	41.3W	13	08	962	C.E.
11886	Apr	11	963	C.E.	19:37:29	2072894.3177007	0963	Apr	11	20:07:04	001775	LPU	Dec.	-0.9689	1.1194	0.0417	297	050	---	10.9S	65.0E	14	01	963	C.E.
11887	Oct	05	963	C.E.	18:36:30	2073071.2753513	0963	Oct	05	19:06:02	001772	LPU	Asc.	0.8480	1.2846	0.3191	268	111	---	7.5N	77.3E	14	07	963	C.E.
11888	Mar	01	964	C.E.	05:51:19	2073218.7439646	0964	Mar	01	06:20:48	001769	LNN	Dec.	1.1751	0.7248	-0.3205	236	---	---	6.5N	84.2W	13	12	964	C.E.
11889	Aug	25	964	C.E.	21:09:12	2073396.3813919	0964	Aug	25	21:38:39	001767	LNN	Asc.	-1.1222	0.8103	-0.2121	243	---	---	9.8S	43.1E	15	06	964	C.E.
11890	Feb	18	965	C.E.	15:35:46	2073573.1498340	0965	Feb	18	16:05:11	001764	LTU	Dec.	0.4066	2.1083	1.1157	321	198	050	9.9N	129.9E	14	12	965	C.E.
11891	Aug	15	965	C.E.	02:00:18	2073750.5835366	0965	Aug	15	02:29:37	001761	LTU	Asc.	-0.4052	2.1489	1.0808	358	214	046	13.0S	29.4W	14	06	965	C.E.
11892	Feb	08	966	C.E.	06:34:21	2073927.7378536	0966	Feb	08	07:03:39	001758	LTU	Dec.	-0.2941	2.3005	1.3361	314	198	078	13.1N	94.7W	14	12	966	C.E.
11893	Aug	04	966	C.E.	02:20:33	2074104.5975995	0966	Aug	04	02:49:48	001755	LTU	Asc.	0.3407	2.2697	1.1969	365	221	069	15.9S	34.3W	13	05	966	C.E.
11894	Jan	28	967	C.E.	22:21:54	2074282.4318771	0967	Jan	28	22:51:06	001752	LPU	Dec.	-0.9815	1.0474	0.0667	252	047	---	15.8N	28.1E	15	11	967	C.E.
11895	Jul	24	967	C.E.	05:31:08	2074458.7299514	0967	Jul	24	06:00:17	001749	LNN	Asc.	1.0746	0.9019	-0.1289	259	---	---	18.1S	82.0W	15	05	967	C.E.
11896	Dec	19	967	C.E.	19:02:40	2074607.2935132	0967	Dec	19	19:31:46	001747	LNN	Dec.	1.1396	0.8012	-0.2665	250	---	---	24.6N	75.0E	15	10	967	C.E.
11897	Jun	13	968	C.E.	08:09:17	2074783.8397744	0968	Jun	13	08:38:21	001744	LPU	Asc.	-0.7951	1.3750	0.4229	276	126	---	24.3S	122.6W	13	04	968	C.E.
11898	Dec	07	968	C.E.	20:14:25	2074961.3433396	0968	Dec	07	20:43:25	001741	LPU	Dec.	0.4835	2.0239	0.9188	361	205	---	23.7N	55.6E	14	10	968	C.E.
11899	Jun	03	969	C.E.	01:16:14	2075138.5529351	0969	Jun	03	01:45:12	001738	LTU	Asc.	-0.0519	2.7332	1.7917	317	205	099	23.0S	19.9W	14	03	969	C.E.
11900	Nov	26	969	C.E.	19:30:25	2075315.3172893	0969	Nov	26	19:59:22	001735	LTU	Dec.	-0.1968	2.5426	1.4521	369	228	093	21.9N	65.3E	14	09	969	C.E.
11901	May	23	970	C.E.	17:12:12	2075493.2168004	0970	May	23	17:41:02	001732	LPU	Asc.	0.7102	1.5415	0.5679	294	152	---	20.8S	100.8E	15	03	970	C.E.
11902	Nov	16	970	C.E.	00:12:13	2075669.5084842	0970	Nov	16	00:41:03	001729	LPU	Dec.	-0.8722	1.2757	0.2398	289	110	---	19.2N	6.0W	13	09	970	C.E.
11903	Apr	13	971	C.E.	14:16:58	2075818.0951167	0971	Apr	13	14:45:45	001727	LNN	Asc.	-1.2481	0.5980	-0.4614	224	---	---	11.9S	145.1E	14	02	971	C.E.
11904	May	13	971	C.E.	03:34:25	2075994.4689055	0971	May	13	04:03:11	001726	LNN	Asc.	-1.5319	0.0619	-0.9670	073	---	---	18.0S	54.8W	15	03	971	C.E.
11905	Oct	07	971	C.E.	01:54:40	2075994.5796251	0971	Oct	07	02:23:24	001724	LNN	Dec.	1.1592	0.7126	-0.2507	212	---	---	8.4N	32.2W	13	08	971	C.E.
11906	Nov	05	971	C.E.	12:05:22	2076204.0037258	0971	Nov	05	12:34:06	001724	LNN	Dec.	-1.4945	0.1071	-0.8757	088	---	---	15.8N	175.3E	13	09	971	C.E.
11907	Apr	01	972	C.E.	14:57:49	2076172.1234834	0972	Apr	01	15:26:31	001722	LPU	Asc.	-0.5277	1.9304	0.8501	354	200	---	7.2S	135.9E	13	01	972	C.E.
11908	Sep	25	972	C.E.	18:01:51	2076349.2512882	0972	Sep	25	18:30:29	001719	LPU	Dec.	0.4859	1.9517	0.9809	307	184	---	3.6N	86.8E	14	07	972	C.E.
11909	Mar	21	973	C.E.	16:40:45	2076526.1949668	0973	Mar	21	17:09:23	001716	LTU	Asc.	0.2177	2.4847	1.4331	358	224	092	2.3S	111.3E	14	01	973	C.E.
11910	Sep	15	973	C.E.	06:58:58	2076703.7909493	0973	Sep	15	07:27:29	001713	LPU	Dec.	-0.2346	2.4353	1.4199	340	216	088	1.3S	106.4W	14	07	973	C.E.
11911	Mar	11	974	C.E.	01:03:43	2076880.5442472	0974	Mar	11	01:32:14	001710	LPU	Asc.	0.9317	1.1478	0.1490	270	086	---	2.7N	13.3W	13	13	974	C.E.
11912	Sep	04	974	C.E.	13:10:00	2077058.0486062	0974	Sep	04	13:38:26	001707	LNT	Asc.	-0.0066	1.0441	-0.0213	283	---	---	6.2S	161.9E	14	06	974	C.E.
11913	Jan	30	975	C.E.	06:01:15	2077205.7508668	0975	Jan	30	06:29:40	001705	LNN	Asc.	-1.0397	0.9329	-0.0325	237	---	---	15.2N	86.5W	14	11	975	C.E.
11914	Jul	25	975	C.E.	22:08:23	2077382.424874	0975	Jul	25	22:36:45	001702	LNN	Dec.	1.1366	0.8044	-0.2587	256	---	---	17.6S	28.9E	13	05	975	C.E.
11915	Jan	19	976	C.E.	21:07:34	2077560.3802598	0976	Jan	19	21:35:52	001699	LTU	Asc.	-0.3822	2.1541	1.1594	321	199	058	18.8N	46.7E	15	11	976	C.E.
11916	Jul	14	976	C.E.	03:12:27	2077736.3634660	0976	Jul	14	03:40:46	001697	LTU	Dec.	0.3378	2.2452	1.2314	340	212	071	20.7S	47.1W	13	05	976	C.E.
11917	Jan	08	977	C.E.	17:11:33	2077914.7996852	0977	Jan	08	07:39:45	001694	LTU	Asc.	0.3253	2.2877	1.2353	348	213	071	21.8N	105.0W	14	11	977	C.E.
11918	Jul	03	977	C.E.	15:32:03	2078091.1472599	0977	Jul	03	16:00:16	001691	LTU	Dec.	-0.4331	2.0437	1.0825	313	190	043	23.0S	127.7E	13	04	977	C.E.
11919	Dec	28	977	C.E.	09:51:37	2078268.1083996	0977	Dec	28	10:19:44	001688	LNN	Asc.	1.0449	0.9910	-0.1084	283	---	---	23.9N	146.2W	14	10	977	C.E.
11920	May	25	978	C.E.	01:38:14	2078416.5682174	0978	May	25	02:06:20	001686	LNN	Dec.	1.3399	0.3727	-0.5740	159	---	---	20.5S	25.4W	14	03	978	C.E.
11921	Jun	23	978	C.E.	08:17:50	2078445.8457132	0978	Jun	23	08:45:55	001685	LNN	Dec.	-1.1507	0.7163	-0.2235	211	---	---	24.6S	124.3W	14	04	978	C.E.
11922	Nov	17	978	C.E.	14:45:57	2078593.1524006	0978	Nov	17	15:14:00	001683	LNN	Asc.	-1.3051	0.5019	-0.5743	206	---	---	19.3N	135.9E	14	09	978	C.E.
11923	May	14	979	C.E.	16:24:04	2078771.1833795	0979	May	14	16:52:03	001680	LPU	Dec.	0.6368	1.6841	0.6949	308	170	---	19.2S	112.8E	14	03	979	C.E.
11924	Nov	06	979	C.E.	21:39:51	2078947.4026758	0979	Nov	06	22:07:50	001677	LPU	Dec.	-0.5556	1.8475	0.8299	318	183	---	17.2N	31.6E	13	09	979	C.E.
11925	May	03	980	C.E.	00:41:03	2079125.5285067	0980	May	03	01:08:55	001674	LTU	Dec.	-0.1292	2.6438	1.5985	361	229	101	17.2S	11.6W	15	02	980	C.E.
11926	Oct	26	980	C.E.	11:06:56	2079301.9631505	0980	Oct	26	11:34:49	001672	LPU	Asc.	0.1498	2.5694	1.5967	320	206	094	14.6N	170.6W	13	08	980	C.E.
11927	Apr	22	981	C.E.	02:20:33	2079479.5976065	0981	Apr	22	02:48:22	001669	LPU	Dec.	-0.8971	1.2500	0.1746	309	110	---	14.6S	36.4W	14	02	981	C.E.
11928	Oct	16	981	C.E.	03:06:32	2079656.6295401	0981	Oct	16	03:34:18	001666	LPU	Asc.	0.8269	1.3253	0.3560	272	101	---	1					

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (minutes)		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar					
	Year	Month	Day	Time	Year	Month	Day	Time						Pen.	Par.	Pen.	Par.	Lat.	Lon.	Year	Month	Day	Year	Month	Day
11985	Dec	18	1005	C.E.	11:53:52	2088485.9957380	1005	Dec	18	12:19:23	001529	LTU	Dec.	-0.1856	2.5612	1.4745	368	227	094	23.4N	178.0W	13	10	1005	C.E.
11986	Jun	14	1006	C.E.	07:40:35	2088663.8198451	1006	Jun	14	08:06:01	001527	LPU	Asc.	0.5630	1.8145	0.8354	311	180	---	23.0S	115.5W	14	04	1006	C.E.
11987	Dec	07	1006	C.E.	17:17:54	2088840.2207665	1006	Dec	07	17:43:19	001524	LPU	Dec.	-0.8596	1.2967	0.2651	289	61	---	22.5N	99.6E	13	10	1006	C.E.
11988	May	05	1007	C.E.	03:55:13	2088988.6633499	1007	May	05	04:20:36	001522	LNN	Asc.	-1.3950	0.3282	-0.7310	171	---	---	18.8S	60.3W	14	02	1007	C.E.
11989	Jun	03	1007	C.E.	17:12:38	2089018.2171051	1007	Jun	03	17:37:59	001521	LNN	Asc.	1.3863	0.3313	-0.7022	167	---	---	21.7S	101.0E	15	03	1007	C.E.
11990	Oct	28	1007	C.E.	19:05:19	2089165.2953568	1007	Oct	28	19:30:38	001519	LNN	Dec.	1.1928	0.6528	-0.3141	204	---	---	16.2N	69.6E	14	08	1007	C.E.
11991	Nov	27	1007	C.E.	05:38:50	2089194.7353011	1007	Nov	27	06:04:08	001519	LNN	Dec.	-1.4772	0.1384	-0.8436	100	---	---	20.6N	86.8W	13	09	1007	C.E.
11992	Apr	23	1008	C.E.	04:32:07	2089342.6889721	1008	Apr	23	04:57:25	001517	LPU	Asc.	-0.6646	1.6756	0.6023	340	175	---	14.9S	69.1W	14	02	1008	C.E.
11993	Oct	17	1008	C.E.	10:49:16	2089519.9508772	1008	Oct	17	11:14:29	001514	LPU	Dec.	0.5357	1.8650	0.8851	306	179	---	12.0N	166.2W	14	08	1008	C.E.
11994	Oct	12	1009	C.E.	07:07:57	2089696.7971854	1009	Apr	12	07:33:10	001511	LTU	Asc.	0.1011	2.6924	1.6529	357	227	102	10.5S	107.3W	13	02	1009	C.E.
11995	Oct	06	1009	C.E.	22:51:42	2089874.4525639	1009	Oct	06	23:16:47	001508	LPU	Dec.	-0.1708	2.5589	1.5308	345	220	095	7.4N	13.9E	15	08	1009	C.E.
11996	Apr	01	1010	C.E.	16:38:55	2090051.1936923	1010	Apr	01	17:04:02	001506	LPU	Asc.	0.8353	1.3188	0.3319	281	121	---	5.9S	111.0E	14	01	1010	C.E.
11997	Sep	26	1010	C.E.	03:56:22	2090228.6641450	1010	Sep	26	04:21:24	001503	LPU	Dec.	-0.9231	1.2030	0.1263	301	085	---	2.4N	61.4W	14	07	1010	C.E.
11998	Feb	20	1011	C.E.	23:05:47	2090376.4623502	1011	Feb	20	23:30:48	001501	LNN	Asc.	-1.0826	0.8520	-0.1091	228	---	---	7.7N	16.8E	14	12	1011	C.E.
11999	Mar	22	1011	C.E.	07:47:45	2090405.4828252	1011	Mar	22	08:12:46	001501	LNN	Asc.	1.5000	0.0828	-0.8717	076	---	---	1.2S	115.1W	13	01	1011	C.E.
12000	Aug	16	1011	C.E.	11:48:27	2090552.9919824	1011	Aug	16	12:13:27	001499	LNN	Dec.	1.2708	0.5586	-0.5054	218	---	---	11.1S	176.9W	13	06	1011	C.E.
12001	Feb	10	1012	C.E.	14:08:41	2090731.0893600	1012	Feb	10	14:33:36	001497	LPU	Asc.	-0.4152	2.0936	1.0987	320	197	047	12.2N	151.7E	14	12	1012	C.E.
12002	Aug	04	1012	C.E.	17:32:59	2090907.2312426	1012	Aug	04	17:57:55	001494	LPU	Dec.	0.4751	1.9917	0.9809	329	197	---	15.3S	97.6E	13	05	1012	C.E.
12003	Jan	29	1013	C.E.	23:41:11	2091085.4869285	1013	Jan	30	00:06:01	001492	LPU	Asc.	0.3024	2.3306	1.2763	351	216	077	16.4N	8.8E	15	11	1013	C.E.
12004	Jul	25	1013	C.E.	06:29:02	2091261.7701591	1013	Jul	25	06:53:52	001489	LTU	Dec.	-0.2917	2.3023	1.3429	318	201	079	18.9S	96.1W	13	05	1013	C.E.
12005	Jan	19	1014	C.E.	01:51:38	2091439.5725242	1014	Jan	19	02:16:25	001487	LNT	Asc.	1.0255	1.0261	-0.0723	288	---	---	20.1N	24.2W	14	11	1014	C.E.
12006	Jun	15	1014	C.E.	16:30:12	2091587.1876388	1014	Jun	15	16:54:56	001484	LNN	Dec.	1.4887	0.1009	-0.8483	085	---	---	22.1S	112.4E	14	04	1014	C.E.
12007	Jul	14	1014	C.E.	23:20:36	2091616.4726415	1014	Jul	14	23:45:20	001484	LNN	Dec.	-1.0102	0.9754	0.0329	240	039	---	21.9S	11.0E	14	05	1014	C.E.
12008	Dec	09	1014	C.E.	07:18:43	2091763.8046607	1014	Dec	09	07:43:24	001482	LNN	Asc.	-1.3101	0.4908	-0.5817	203	---	---	22.2N	110.2W	13	10	1014	C.E.
12009	Jun	05	1015	C.E.	06:42:28	2091941.7794896	1015	Jun	05	07:07:06	001479	LPU	Dec.	0.7934	1.7993	0.4051	293	137	---	22.3S	101.2W	15	03	1015	C.E.
12010	Nov	28	1015	C.E.	14:52:02	2092118.1194724	1015	Nov	28	15:16:41	001477	LPU	Asc.	-0.5650	1.8286	0.8141	315	181	---	21.8N	135.1E	13	09	1015	C.E.
12011	May	24	1016	C.E.	14:09:04	2092296.0896332	1016	May	24	14:33:37	001474	LPU	Dec.	0.0319	2.8237	1.7757	364	232	105	21.8S	164.6E	14	03	1016	C.E.
12012	Nov	17	1016	C.E.	04:37:58	2092472.6930294	1016	Nov	17	05:02:29	001471	LTU	Asc.	0.1299	2.6066	1.6327	320	207	095	20.6N	72.5W	13	09	1016	C.E.
12013	May	13	1017	C.E.	15:28:30	2092650.1447942	1017	May	13	15:52:59	001469	LPU	Dec.	-0.7378	1.5402	0.4689	332	158	---	20.4S	126.3E	13	03	1017	C.E.
12014	Nov	06	1017	C.E.	20:23:36	2092827.3497232	1017	Nov	06	20:48:02	001466	LPU	Dec.	0.7999	1.3784	0.4021	277	127	---	18.7N	50.2E	14	09	1017	C.E.
12015	Apr	03	1018	C.E.	04:25:20	2092974.6825991	1018	Apr	03	04:49:44	001464	LNN	Dec.	1.3051	0.4765	-0.5495	194	---	---	6.2S	65.4W	13	01	1018	C.E.
12016	May	02	1018	C.E.	17:12:05	2093004.2167253	1018	May	02	17:36:28	001463	LNN	Dec.	-1.4601	0.2021	-0.8437	133	---	---	18.2S	100.2E	14	02	1018	C.E.
12017	May	27	1018	C.E.	20:04:16	2093152.3629404	1018	May	27	20:28:38	001462	LNN	Asc.	-1.2612	0.5649	-0.4768	211	---	---	2.9N	56.8E	15	07	1018	C.E.
12018	Oct	27	1018	C.E.	09:29:10	2093181.8952516	1018	Oct	27	09:53:31	001461	LNN	Asc.	1.5341	0.0527	-0.9661	065	---	---	16.1N	146.7W	14	08	1018	C.E.
12019	Mar	23	1019	C.E.	15:45:40	2093329.1567136	1019	Mar	23	16:10:00	001459	LPU	Dec.	0.5160	1.8991	0.9231	309	183	---	2.7S	125.1E	13	01	1019	C.E.
12020	Sep	16	1019	C.E.	23:18:35	2093506.4712370	1019	Sep	16	23:42:50	001456	LPU	Asc.	-0.5759	1.8432	0.7603	349	191	---	0.9S	8.8E	14	07	1019	C.E.
12021	Mar	12	1020	C.E.	07:40:01	2093683.8194567	1020	Mar	12	08:04:15	001454	LPU	Dec.	-0.2031	2.4628	1.5076	315	202	089	0.8N	112.9W	14	13	1020	C.E.
12022	Sep	04	1020	C.E.	23:08:51	2093860.4644816	1020	Sep	04	23:33:03	001451	LTU	Asc.	0.1471	2.6274	1.5496	372	232	100	4.8S	11.8E	13	06	1020	C.E.
12023	Mar	01	1021	C.E.	23:34:53	2094038.4825553	1021	Mar	01	23:59:01	001448	LPU	Dec.	-0.9175	1.1639	0.1849	264	087	---	4.3N	8.8E	15	12	1021	C.E.
12024	Aug	25	1021	C.E.	03:06:15	2094214.6293428	1021	Aug	25	03:30:22	001446	LPU	Dec.	0.8727	1.2712	0.2424	292	112	---	8.3S	47.0W	13	06	1021	C.E.
12025	Jan	20	1022	C.E.	19:47:41	2094363.3247786	1022	Jan	20	20:11:44	001444	LNN	Dec.	1.1714	0.7448	-0.3269	244	---	---	19.7N	67.2E	15	11	1022	C.E.
12026	Jul	16	1022	C.E.	06:31:00	2094539.7715320	1022	Jul	16	06:55:01	001441	LNN	Asc.	-1.0058	0.9868	0.0377	243	042	---	21.6S	96.3W	13	05	1022	C.E.
12027	Aug	14	1022	C.E.	14:27:15	2094569.1022617	1022	Aug	14	14:51:17	001441	LNN	Asc.	1.5452	0.0087	-0.9634	026	---	---	11.4S	143.1E	12	06	1022	C.E.
12028	Jan	09	1023	C.E.	20:21:14	2094717.3480807	1023	Jan	09	20:45:13	001439	LPU	Dec.	0.5078	1.9789	0.8747	359	202	---	21.6N	57.8E	14	11	1023	C.E.
12029	Jan	05	1023	C.E.	23:42:06	2094894.4857506	1023	Jan	05	00:06:01	001436	LPU	Dec.	-0.2741	2.3276	1.3822	314	198	082	22.6S	5.3E	14	04	1	

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type Node		Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar						
	Year	Month	Day	Time (UT)	Year	Month	Day	Time (UT)	Year	Month	Day				Time (UT)	Pen.	Par.	Lat.	Lon.	Year	Month	Year			
12092	Aug	26	1048	C.E.	08:25:29	2104077.8510322	1048	Aug	26	08:47:21	001310	LPU	Dec.	0.5886	1.7829	0.7734	318	181	---	7.9S	126.8W	13	06	1048	C.E.
12093	Feb	20	1049	C.E.	15:38:00	2104426.1513945	1049	Feb	20	15:59:45	001307	LTU	Asc.	0.2565	2.4150	1.3605	355	221	085	8.8N	129.1E	15	12	1049	C.E.
12094	Aug	15	1049	C.E.	21:48:26	2104432.4086348	1049	Aug	15	22:10:12	001305	LTU	Dec.	-0.1675	2.5304	1.5706	321	206	093	12.3S	33.4E	13	06	1049	C.E.
12095	Feb	09	1050	C.E.	17:25:20	2104610.2259245	1050	Feb	09	17:47:01	001302	LPU	Asc.	0.9861	1.0966	0.0014	295	000	---	13.5N	102.8E	15	12	1050	C.E.
12096	Aug	05	1050	C.E.	14:37:50	2104787.1906031	1050	Aug	05	14:59:30	001300	LPU	Dec.	-0.8826	1.2120	0.2646	261	096	---	16.4S	141.7E	13	05	1050	C.E.
12097	Dec	30	1050	C.E.	23:56:09	2104934.4973292	1050	Dec	31	00:17:47	001298	LNN	Asc.	-1.3134	0.4816	-0.5845	200	---	---	21.4N	2.9E	13	10	1050	C.E.
12098	Jun	26	1051	C.E.	20:48:35	2105112.3670709	1051	Jun	26	21:10:10	001296	LPU	Dec.	0.9552	1.1061	0.1045	271	074	---	22.3S	48.3E	15	04	1051	C.E.
12099	Dec	20	1051	C.E.	08:15:51	2105288.8443405	1051	Dec	20	08:37:26	001294	LPU	Asc.	-0.5669	1.8226	0.8132	313	180	---	22.9N	123.3W	13	10	1051	C.E.
12100	Jun	15	1052	C.E.	03:19:51	2105466.6387892	1052	Jun	15	03:41:21	001291	LPU	Dec.	0.2034	2.5113	1.4589	364	228	095	23.4S	50.1W	14	04	1052	C.E.
12101	Dec	08	1052	C.E.	22:22:44	2105643.4324545	1052	Dec	08	22:44:14	001289	LTU	Asc.	0.1213	2.6221	1.6486	320	206	095	23.5N	23.6E	14	10	1052	C.E.
12102	Jun	04	1053	C.E.	04:20:31	2105820.6809149	1053	Jun	04	04:41:57	001286	LPU	Dec.	-0.5651	1.8557	0.7872	350	194	---	23.6S	66.0W	14	03	1053	C.E.
12103	Nov	28	1053	C.E.	13:58:34	2105998.0823421	1053	Nov	28	14:19:58	001284	LPU	Asc.	0.7901	1.3991	0.4173	279	131	---	23.2N	148.2E	14	09	1053	C.E.
12104	Apr	24	1054	C.E.	18:56:42	2106145.2893715	1054	Apr	24	19:18:05	001283	LNN	Dec.	-1.4194	0.2606	-0.7532	145	---	---	13.5S	75.4E	14	02	1054	C.E.
12105	May	24	1054	C.E.	06:45:05	2106174.7813091	1054	May	24	07:06:28	001283	LNN	Asc.	-1.2989	0.4932	-0.5435	201	---	---	22.9S	102.8W	13	03	1054	C.E.
12106	Oct	19	1054	C.E.	11:55:14	2106322.9966916	1054	Oct	19	12:16:36	001281	LNN	Asc.	-1.3212	0.4610	-0.5928	194	---	---	11.0N	178.0E	14	08	1054	C.E.
12107	Nov	18	1054	C.E.	02:22:45	2106352.5991369	1054	Nov	18	02:44:07	001281	LNN	Asc.	1.5232	0.0777	-0.9510	080	---	---	22.0N	39.1W	14	09	1054	C.E.
12108	Apr	14	1055	C.E.	07:18:25	2106499.8044528	1055	Apr	14	07:39:45	001279	LPU	Dec.	0.6197	1.7037	0.7381	298	166	---	10.7S	109.7W	14	02	1055	C.E.
12109	Oct	08	1055	C.E.	14:11:03	2106677.0910115	1055	Oct	08	14:32:19	001276	LPU	Asc.	-0.6542	1.7041	0.6121	343	176	---	7.6N	144.2E	13	08	1055	C.E.
12110	Apr	02	1056	C.E.	23:44:13	2106854.4890388	1056	Apr	03	00:05:27	001274	LTU	Dec.	-0.1094	2.6319	1.6822	317	204	096	7.6S	4.2E	14	01	1056	C.E.
12111	Sep	26	1056	C.E.	13:49:11	2107031.0758262	1056	Sep	26	14:10:25	001272	LTU	Asc.	0.0552	2.7978	1.7167	372	233	104	3.8N	150.0E	13	07	1056	C.E.
12112	Mar	23	1057	C.E.	15:39:29	2107209.1524233	1057	Mar	23	16:00:38	001269	LPU	Dec.	-0.8419	1.3021	0.3240	276	117	---	4.2S	125.9E	14	01	1057	C.E.
12113	Sep	15	1057	C.E.	18:16:14	2107385.2612738	1057	Sep	15	18:37:23	001267	LPU	Asc.	0.7713	1.4572	0.4288	304	144	---	0.0N	83.8E	13	07	1057	C.E.
12114	Feb	11	1058	C.E.	11:43:34	2107533.9885871	1058	Feb	11	12:04:39	001265	LNN	Dec.	-1.2166	0.6620	-0.4096	233	---	---	13.0N	171.5W	14	12	1058	C.E.
12115	Aug	06	1058	C.E.	21:46:55	2107710.4075788	1058	Aug	06	22:07:58	001263	LNN	Asc.	-1.1301	0.7593	-0.1907	218	---	---	16.2S	34.6E	14	05	1058	C.E.
12116	Sep	05	1058	C.E.	06:06:30	2107739.7545183	1058	Sep	05	06:27:33	001262	LNN	Asc.	1.4381	0.2055	-0.7672	122	---	---	3.6S	93.3W	13	06	1058	C.E.
12117	Jan	31	1059	C.E.	12:03:09	2107888.0021819	1059	Jan	31	12:24:09	001261	LPU	Dec.	0.5417	1.9146	0.8147	356	197	---	16.1N	176.6W	14	11	1059	C.E.
12118	Jul	27	1059	C.E.	14:47:26	2108065.1162758	1059	Jul	27	15:08:23	001258	LTU	Asc.	-0.4134	2.0748	1.1237	309	189	051	18.5S	139.4E	14	05	1059	C.E.
12119	Jan	20	1060	C.E.	12:22:09	2108242.0153804	1060	Jan	20	12:43:07	001256	LTU	Dec.	-0.1591	2.6044	1.5287	365	227	097	18.7N	178.1E	13	11	1060	C.E.
12120	Jul	16	1060	C.E.	05:15:45	2108419.7192686	1060	Jul	16	05:36:37	001254	LPU	Asc.	0.3417	2.2267	1.2352	330	207	070	20.2S	77.9W	14	05	1060	C.E.
12121	Jan	08	1061	C.E.	19:02:54	2108596.2936838	1061	Jan	08	19:23:46	001251	LPU	Dec.	-0.8414	1.3246	0.3038	288	121	---	20.5N	76.9E	13	11	1061	C.E.
12122	Jul	05	1061	C.E.	13:18:46	2108774.0546988	1061	Jul	05	13:39:34	001249	LNN	Asc.	1.1542	0.7624	-0.2816	246	---	---	21.2S	160.9E	14	04	1061	C.E.
12123	Nov	29	1061	C.E.	21:31:49	2108921.3970990	1061	Nov	29	21:52:36	001247	LNN	Dec.	-1.2124	0.6184	-0.3519	199	---	---	23.8N	35.2E	14	09	1061	C.E.
12124	Dec	29	1061	C.E.	08:13:30	2108950.8427120	1061	Dec	29	08:34:17	001247	LNN	Dec.	-1.4622	0.1637	-0.8135	108	---	---	21.4N	121.9W	13	10	1061	C.E.
12125	May	26	1062	C.E.	00:11:43	2109098.5081327	1062	May	26	00:32:28	001245	LPU	Asc.	-0.9039	1.2321	0.1677	305	098	---	22.8S	4.1W	14	03	1062	C.E.
12126	Nov	19	1062	C.E.	12:43:03	2109276.0298986	1062	Nov	19	13:03:45	001243	LPU	Dec.	0.5717	1.8050	0.8131	306	176	---	21.5N	166.4E	14	09	1062	C.E.
12127	May	15	1063	C.E.	04:10:00	2109452.6736156	1063	May	15	04:30:43	001240	LTU	Asc.	-0.1122	2.6639	1.6407	352	226	101	20.1S	63.8W	13	03	1063	C.E.
12128	Nov	08	1063	C.E.	23:28:20	2109630.4780126	1063	Nov	08	23:48:56	001238	LPU	Dec.	-0.1206	2.6595	1.6146	351	223	099	18.3N	4.4E	15	09	1063	C.E.
12129	May	03	1064	C.E.	15:15:38	2109807.1358545	1064	May	03	15:36:15	001236	LPU	Asc.	0.6470	1.6562	0.6851	299	163	---	16.8S	130.0E	13	02	1064	C.E.
12130	Oct	28	1064	C.E.	03:02:14	2109984.6265530	1064	Oct	28	03:22:48	001234	LPU	Dec.	-0.8469	1.3502	0.2588	316	120	---	14.5N	49.2W	14	08	1064	C.E.
12131	Mar	24	1065	C.E.	23:42:50	2110132.4807054	1065	Mar	25	00:03:22	001232	LNN	Asc.	-1.1946	0.6432	-0.3115	203	---	---	5.2S	5.0E	14	01	1065	C.E.
12132	Apr	23	1065	C.E.	07:21:47	2110161.8067962	1065	Apr	23	07:42:18	001231	LNN	Asc.	1.3416	0.3688	-0.5764	157	---	---	13.1S	111.0W	14	02	1065	C.E.
12133	Sep	17	1065	C.E.	09:26:31	2110308.8934197	1065	Sep	17	09:47:01	001230	LNN	Dec.	-1.4188	0.2883	-0.7782	160	---	---	1.3N	144.0W	13	07	1065	C.E.
12134	Oct	17	1065	C.E.	02:22:02	2110338.7106837	1065	Oct	17	02:42:31	001229	LNN	Dec.	-1.5292	0.0992	-0.9940	097	---	---	10.1N	38.9W	13	08	1065	C.E.
12135	Jul	14	1066	C.E.	14:35:00	2110487.1076350	1066	Jul	14	14:55:25	001227	LPU	Asc.	-0.5131	1.9140	0.9192	316	188	---	0.3S	143.1E	14	01	1066	C.E.
12136	Sep	06	1066	C.E.	16:05:47	2110663.7106837	1066	Sep	06	16:26:13	001225	LPU	Dec.	0.6348	1.6979	0.6887	312	172	---	3.7S	117.3E	13	07	1066	C.E.

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
12199	Apr 24 1092 C.E.	15:19:27	2120025.1385057	1092 Apr 24 15:37:59	001111	LTU	Dec.	0.0079	2.8162	1.8703	318	205	099	15.0S	129.2E	13 02 1092 C.E.
12200	Oct 18 1092 C.E.	05:07:46	2120201.7137292	1092 Oct 18 05:26:18	001109	LTU	Asc.	-0.0069	2.8874	1.8040	371	233	105	12.0N	80.7W	13 08 1092 C.E.
12201	Apr 14 1093 C.E.	07:08:13	2120379.7937673	1093 Apr 14 07:26:39	001107	LPU	Dec.	-0.7400	1.4892	0.5110	291	145	---	12.2S	107.8W	14 02 1093 C.E.
12202	Oct 07 1093 C.E.	10:06:19	2120555.9210497	1093 Oct 07 10:24:45	001105	LPU	Asc.	0.6998	1.5882	0.5601	311	160	---	8.5N	155.2W	12 08 1093 C.E.
12203	Mar 05 1094 C.E.	03:02:11	2120704.6265217	1094 Mar 05 03:20:33	001103	LNN	Dec.	1.2886	0.5291	-0.5410	212	---	---	4.8N	42.2W	15 13 1094 C.E.
12204	Apr 03 1094 C.E.	17:29:17	2120734.2286659	1094 Apr 03 17:47:41	001103	LNN	Dec.	-1.5448	0.0415	-0.9940	060	---	---	9.0S	97.3E	15 01 1094 C.E.
12205	Aug 28 1094 C.E.	13:27:37	2120881.0608406	1094 Aug 28 13:45:58	001101	LNN	Asc.	-1.2349	0.5685	-0.3844	192	---	---	8.8S	158.3E	13 06 1094 C.E.
12206	Sep 26 1094 C.E.	22:19:44	2120910.4303666	1094 Sep 26 22:38:05	001101	LNN	Asc.	1.3568	0.3555	-0.6187	157	---	---	5.0N	21.7E	13 07 1094 C.E.
12207	Feb 22 1095 C.E.	03:16:32	2121058.6364776	1095 Feb 22 03:34:51	001099	LPU	Dec.	0.5986	1.8067	0.7134	350	187	---	8.6N	45.4W	14 12 1095 C.E.
12208	Aug 18 1095 C.E.	06:09:28	2121235.7565739	1095 Aug 18 06:27:44	001097	LPU	Asc.	-0.5371	1.8518	0.8927	302	176	---	11.9S	91.8W	14 06 1095 C.E.
12209	Feb 11 1096 C.E.	04:18:15	2121412.6793347	1096 Feb 11 04:36:32	001095	LTU	Dec.	-0.1193	2.6720	1.6068	362	228	100	12.1N	60.7W	13 12 1096 C.E.
12210	Aug 06 1096 C.E.	19:48:35	2121590.3254076	1096 Aug 06 20:06:46	001093	LTU	Asc.	0.2060	2.4812	1.4788	339	217	092	14.7S	63.6E	15 05 1096 C.E.
12211	Jan 30 1097 C.E.	11:58:57	2121766.9992676	1097 Jan 30 12:17:08	001091	LPU	Dec.	-0.8145	1.3691	0.3582	289	129	---	15.0N	176.1W	13 11 1097 C.E.
12212	Jul 27 1097 C.E.	02:45:53	2121944.6151937	1097 Jul 27 03:04:02	001089	LNT	Asc.	1.0038	1.0430	-0.0099	281	---	---	17.1S	40.7W	14 05 1097 C.E.
12213	Dec 21 1097 C.E.	15:20:09	2122092.1389933	1097 Dec 21 15:38:17	001088	LNN	Dec.	1.2181	0.6083	-0.3624	198	---	---	24.6N	131.1E	14 10 1097 C.E.
12214	Jan 20 1098 C.E.	01:47:43	2122121.5748033	1098 Jan 20 02:05:50	001088	LNN	Dec.	-1.4429	0.1927	-0.7793	116	---	---	17.4N	23.8W	14 11 1098 C.E.
12215	Jun 16 1098 C.E.	13:07:33	2122269.0469134	1098 Jun 16 13:25:40	001086	LNN	Asc.	-1.7200	0.9215	-0.1386	271	---	---	24.5S	163.2E	13 04 1098 C.E.
12216	Dec 11 1098 C.E.	06:14:06	2122446.7597959	1098 Dec 11 06:32:09	001084	LPU	Dec.	0.5808	1.7912	0.7934	307	176	---	24.1N	93.9W	14 10 1098 C.E.
12217	Jun 05 1099 C.E.	17:58:53	2122623.2422009	1099 Jun 05 18:16:57	001082	LTU	Asc.	-0.2689	2.3718	1.3575	344	217	084	23.4S	89.7E	13 03 1099 C.E.
12218	Nov 30 1099 C.E.	16:14:03	2122801.1764260	1099 Nov 30 16:32:01	001080	LTU	Dec.	-0.1086	2.6858	1.6322	354	224	099	22.6N	114.7E	15 09 1099 C.E.
12219	May 25 1100 C.E.	06:01:00	2122977.7560933	1100 May 25 06:18:59	001078	LPU	Asc.	0.5018	1.9187	0.9556	309	183	---	21.5S	91.3W	13 03 1100 C.E.
12220	Nov 18 1100 C.E.	18:56:14	2123155.2890463	1100 Nov 18 19:14:09	001076	LPU	Dec.	-0.8224	1.3988	0.3004	322	129	---	20.2N	73.2E	14 09 1100 C.E.
12221	Apr 15 1101 C.E.	15:27:55	2123303.1443881	1101 Apr 15 15:45:50	001075	LNN	Asc.	-1.3009	0.4468	-0.5052	172	---	---	13.3S	127.1E	14 02 1101 C.E.
12222	May 14 1101 C.E.	22:36:29	2123332.4419988	1101 May 14 22:54:23	001074	LNN	Asc.	1.2128	0.6032	-0.3382	196	---	---	18.9S	19.8E	14 03 1101 C.E.
12223	Oct 09 1101 C.E.	00:42:12	2123479.5293094	1101 Oct 09 01:00:05	001072	LNN	Dec.	1.4794	0.1778	-0.8900	126	---	---	9.9N	14.4W	13 08 1101 C.E.
12224	Nov 07 1101 C.E.	18:02:43	2123509.2518816	1101 Nov 07 18:20:35	001072	LNN	Dec.	-1.4896	0.1730	-0.9225	128	---	---	17.0N	86.0E	14 09 1101 C.E.
12225	Apr 05 1102 C.E.	06:06:06	2123657.7542304	1102 Apr 05 06:23:55	001070	LPU	Asc.	-0.6129	1.7100	0.7359	310	174	---	8.8S	91.5W	15 01 1102 C.E.
12226	Sep 28 1102 C.E.	07:54:19	2123833.9283900	1102 Sep 28 08:12:09	001069	LPU	Dec.	0.7063	1.5666	0.5577	303	157	---	5.0N	121.6W	13 07 1102 C.E.
12227	Mar 25 1103 C.E.	14:18:52	2124012.0964346	1103 Mar 25 14:36:36	001067	LTU	Asc.	0.1326	2.6419	1.5883	361	228	100	4.0S	146.4E	14 01 1103 C.E.
12228	Sep 17 1103 C.E.	21:44:56	2124188.4062036	1103 Sep 17 22:02:41	001065	LTU	Dec.	-0.0273	2.7895	1.8262	321	208	099	0.1N	31.8E	13 07 1103 C.E.
12229	Mar 13 1104 C.E.	15:40:53	2124366.1533925	1104 Mar 13 15:58:36	001063	LPU	Asc.	0.8762	1.2941	0.2071	314	109	---	1.0N	127.0E	13 01 1104 C.E.
12230	Sep 06 1104 C.E.	14:15:32	2124543.0941167	1104 Sep 06 14:33:11	001060	LPU	Dec.	-0.7288	1.4997	0.5415	282	142	---	4.7S	145.2E	13 07 1104 C.E.
12231	Feb 01 1105 C.E.	00:34:58	2124690.5242853	1105 Feb 01 00:52:36	001059	LNN	Asc.	-1.3250	0.4346	-0.6170	188	---	---	14.0N	5.0W	13 12 1105 C.E.
12232	Mar 02 1105 C.E.	16:05:15	2124720.1703076	1105 Mar 02 16:22:52	001058	LNN	Asc.	1.5583	0.0340	-1.0358	056	---	---	6.0N	122.0E	14 13 1105 C.E.
12233	Jul 28 1105 C.E.	17:59:17	2124868.2450003	1105 Jul 28 18:16:54	001057	LNN	Dec.	1.1862	0.6898	-0.3265	227	---	---	16.4S	91.1E	15 05 1105 C.E.
12234	Aug 27 1105 C.E.	04:44:21	2124897.9474621	1105 Aug 27 05:01:57	001057	LNN	Dec.	-1.4880	0.1251	-0.8695	099	---	---	9.4S	70.9W	14 06 1105 C.E.
12235	Jan 21 1106 C.E.	10:13:19	2125044.9259131	1106 Jan 21 10:30:55	001055	LPU	Asc.	-0.5798	1.7931	0.7954	308	177	---	17.8N	149.7W	13 11 1106 C.E.
12236	Jul 17 1106 C.E.	23:01:41	2125222.4595023	1106 Jul 17 23:19:13	001053	LPU	Dec.	0.4570	2.0508	0.9889	354	208	---	19.7S	15.7E	14 05 1106 C.E.
12237	Jan 11 1107 C.E.	01:00:08	2125399.5417548	1107 Jan 11 01:17:39	001051	LTU	Asc.	0.1093	2.6423	1.6725	319	206	096	21.0N	12.0W	14 11 1107 C.E.
12238	Dec 06 1107 C.E.	23:36:23	2125576.4835981	1107 Dec 06 23:53:53	001049	LTU	Dec.	-0.3018	2.3381	1.2711	366	224	079	22.4S	6.8E	14 04 1107 C.E.
12239	Jun 25 1108 C.E.	16:28:11	2125754.1628273	1108 Jun 25 16:43:37	001047	LPU	Asc.	0.7857	1.4096	0.4228	282	133	---	23.4N	115.0E	15 10 1108 C.E.
12240	Jun 25 1108 C.E.	03:02:44	2125930.6269038	1108 Jun 25 03:20:10	001045	LNN	Dec.	-1.0469	0.9504	-0.0760	264	---	---	24.2S	45.3W	13 04 1108 C.E.
12241	Nov 20 1108 C.E.	12:23:27	2126079.1628171	1108 Nov 20 12:40:50	001044	LNN	Asc.	-1.3710	0.3771	-0.6916	179	---	---	20.0N	171.8E	14 09 1108 C.E.
12242	Dec 20 1108 C.E.	03:58:18	2126108.6654907	1108 Dec 20 04:15:42	001043	LNN	Asc.	1.5247	0.0802	-0.9590	082	---	---	24.9N	58.9W	14 10 1108 C.E.
12243	May 16 1109 C.E.	05:57:08	2126255.7480049	1109 May 16 06:14:29	001041	LPU	Dec.	0.8118	1.3449	0.3915	274	122	---	19.7S	90.3W	13 03 1109 C.E.
12244	Nov 09 1109 C.E.	13:27:22	2126433.0606665	1109 Nov 09 13:44:41	001039	LPU	Asc.	-0.7210	1.5867	0.4844	337	160	---	18.2N	154.9E	13 09 1109 C.E.
12245	May 05 1110 C.E.	22:58:01	2126610.4569548	1110 May 05 23:15:17	001037	LTU	Dec.	0.0739	2.6945	1.7498	318	205	098	18.0S	134.3E	14 02 1110 C.E.
12246	Oct 29 1110 C.E.	13:00:27	2126787.0419737	1110 Oct 29 13:17:45	001036	LTU	Asc.	-0.0276	2.8499	1.7659	371	232	104	15.6N	161.1E	13 08 1110 C.E.
12247	Apr 25 1111 C.E.	14:40:45	2126965.1116265	1111 Apr 25 14:57:58	001034	LPU	Dec.	-0.6803	1.5991	0.6202	298	159	---	15.7S	138.5E	14 02 1111 C.E.
12248	Oct 18 1111 C.E.	18:14:36	2127141.2601383	1111 Oct 18 18:31:49	001032	LPU	Asc.	0.6738	1.6358	0.6080	313	165	---	12.5N	82.3E	13 08 1111 C.E.
12249	Mar 15 1112 C.E.	10:26:07	2127289.9348073	1112 Mar 15 10:43:18	001030	LNN	Dec.	1.3356	0.4422	-0.6269	196	---	---	0.5N	154.1W	14 01 1112 C.E.
12250	Apr 14 1112 C.E.	00:42:39	2127319.5296225	1112 Apr 14 00:59:50	001030	LNN	Dec.	-1.4900	0.1421	-0.8937	111	---	---	12.8S	11.7E	15 02 1112 C.E.
12251	Sep 07 1112 C.E.	21:29:25	2127466.3954289	1112 Sep 07 21:46:33	001028	LNN	Asc.	-1.2784	0.4896	-0.4654	179	---	---	4.6S	37.1E	14 07 1112 C.E.
12252	Oct 07 1112 C.E.	06:39:34	2127495.7747889	1112 Oct 07 06:56:42	001028	LNN	Asc.	1.3263	0.4118	-0.5632	168	---	---	9.2N	103.9W	13 08 1112 C.E.
12253	Mar 04 1113 C.E.	10:38:51	2127643.9436442	1113 Mar 04 10:55:57	001026	LPU	Dec.	0.6388	1.7311	0.6417	345	180	---	4.4N	156.7W	

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar		
											Pen.	Par.		Lat.	Lon.	Day	Month	Year
12306	Feb 10 1134 C.E.	19:01:54	2135292.2929906	1134 Feb 10 19:17:40	000946	LNN	Dec.	-1.4116	0.2506	-0.7150	131	---	---	10.7N	77.8E	14	12	1134 C.E.
12307	Jul 08 1134 C.E.	02:09:23	2135439.5898439	1134 Jul 08 02:25:07	000944	LNN	Asc.	-1.2357	0.6197	-0.4378	228	---	---	23.0S	31.1W	13	05	1134 C.E.
12308	Jan 01 1135 C.E.	23:44:15	2135617.4890640	1135 Jan 01 23:59:56	000942	LNN	Dec.	0.5893	1.7776	0.7758	308	176	---	22.9N	6.3E	15	11	1135 C.E.
12309	Jun 27 1135 C.E.	07:51:47	2135793.8276264	1135 Jun 27 08:07:30	000941	LTU	Asc.	-0.4264	2.0795	1.0720	333	203	041	23.5S	117.3W	13	04	1135 C.E.
12310	Dec 22 1135 C.E.	09:02:59	2135971.8770706	1135 Dec 22 09:18:35	000939	LTU	Dec.	-0.1020	2.7011	1.6414	357	225	100	23.3N	134.8W	14	10	1135 C.E.
12311	Jun 15 1136 C.E.	20:42:30	2136148.3628465	1136 Jun 15 20:58:08	000937	LTU	Asc.	0.3501	2.1941	1.2368	316	197	069	23.2S	49.3E	13	04	1136 C.E.
12312	Dec 10 1136 C.E.	11:04:07	2136325.9611868	1136 Dec 10 11:19:41	000935	LPU	Dec.	-0.8097	1.4241	0.3216	325	134	---	22.7N	166.6W	14	10	1136 C.E.
12313	May 07 1137 C.E.	06:45:31	2136473.7816138	1137 May 07 07:01:06	000934	LNN	Asc.	-1.4283	0.2129	-0.7380	122	---	---	19.9S	102.9W	14	02	1137 C.E.
12314	Jun 05 1137 C.E.	13:37:09	2136503.0674614	1137 Jun 05 13:52:42	000933	LNN	Asc.	-1.0271	0.8603	-0.0798	228	---	---	22.1S	155.1E	13	03	1137 C.E.
12315	Oct 30 1137 C.E.	16:34:53	2136650.1908925	1137 Oct 30 16:50:26	000932	LNN	Dec.	1.5127	0.1166	-0.9512	102	---	---	17.5N	107.2E	13	08	1137 C.E.
12316	Nov 29 1137 C.E.	10:07:29	2136679.9218582	1137 Nov 29 10:23:00	000932	LNN	Dec.	-1.4669	0.2147	-0.8807	141	---	---	21.3N	153.7W	13	09	1137 C.E.
12317	Apr 26 1138 C.E.	21:02:37	2136828.3768202	1138 Apr 26 21:18:07	000930	LPU	Asc.	-0.7379	1.5025	0.5058	299	151	---	16.3S	43.1E	15	02	1138 C.E.
12318	Oct 20 1138 C.E.	00:20:09	2137004.5139969	1138 Oct 20 00:35:39	000928	LPU	Dec.	0.7499	1.4863	0.4778	296	147	---	13.2N	9.0W	13	08	1138 C.E.
12319	Apr 16 1139 C.E.	04:35:27	2137182.6912838	1139 Apr 16 04:50:51	000927	LTU	Asc.	0.0125	2.8621	1.8088	364	231	105	12.1S	69.4W	14	02	1139 C.E.
12320	Oct 09 1139 C.E.	14:24:12	2137359.1001244	1139 Oct 09 14:39:39	000925	LTU	Dec.	0.0326	2.7812	1.8149	321	208	098	8.7N	140.5E	13	08	1139 C.E.
12321	Apr 04 1140 C.E.	05:44:02	2137536.7389125	1140 Apr 04 05:59:25	000923	LPU	Asc.	0.7648	1.4955	0.4148	329	150	---	7.5S	85.6W	14	01	1140 C.E.
12322	Sep 28 1140 C.E.	06:36:14	2137713.7751622	1140 Sep 28 06:51:34	000921	LPU	Dec.	-0.6576	1.6346	0.6679	291	157	---	4.0N	101.7W	14	07	1140 C.E.
12323	Feb 22 1141 C.E.	16:32:36	2137861.1893012	1141 Feb 22 16:47:55	000920	LNN	Asc.	-1.3747	0.3556	-0.6840	170	---	---	6.3N	114.8E	14	12	1141 C.E.
12324	Mar 24 1141 C.E.	06:50:35	2137890.3851300	1141 Mar 24 07:05:55	000920	LNN	Asc.	-1.4634	0.2023	-0.8558	134	---	---	2.7S	101.1W	13	11	1141 C.E.
12325	Aug 19 1141 C.E.	08:24:04	2138038.8500487	1141 Aug 19 08:39:22	000918	LNN	Dec.	1.3195	0.4512	-0.5769	190	---	---	9.5S	126.1W	14	06	1141 C.E.
12326	Sep 17 1141 C.E.	20:16:31	2138068.3448084	1141 Sep 17 20:31:49	000918	LNN	Dec.	-1.4106	0.2733	-0.7337	145	---	---	0.9S	54.3E	15	07	1141 C.E.
12327	Feb 12 1142 C.E.	03:09:23	2138215.6315181	1142 Feb 12 03:24:40	000916	LPU	Asc.	-0.6092	1.7342	0.7461	303	171	---	11.0N	43.7W	13	12	1142 C.E.
12328	Aug 08 1142 C.E.	12:23:31	2138393.0163353	1142 Aug 08 12:38:46	000915	LPU	Dec.	0.6105	1.7731	0.7031	344	185	---	13.9S	174.8E	14	06	1142 C.E.
12329	Feb 01 1143 C.E.	18:27:48	2138570.2693069	1143 Feb 01 18:43:01	000913	LTU	Asc.	0.0871	2.6808	1.7153	319	206	097	15.2N	87.0E	14	12	1143 C.E.
12330	Jul 28 1143 C.E.	12:43:39	2138747.0303095	1143 Jul 28 12:58:51	000911	LTU	Dec.	-0.1383	2.6385	1.5707	371	233	101	17.8S	170.3E	13	05	1143 C.E.
12331	Jan 22 1144 C.E.	09:54:20	2138924.9127371	1144 Jan 22 10:09:29	000909	LPU	Asc.	0.7750	1.4299	0.4419	284	136	---	19.0N	144.7W	14	11	1144 C.E.
12332	Jul 16 1144 C.E.	16:49:49	2139101.2012623	1144 Jul 16 17:04:59	000909	LPU	Dec.	-0.8858	1.2438	0.2217	290	108	---	21.1S	108.8E	13	05	1144 C.E.
12333	Dec 12 1144 C.E.	04:57:25	2139249.7065403	1144 Dec 12 05:12:32	000907	LNN	Asc.	-1.3875	0.3501	-0.7253	174	---	---	22.2N	74.4W	14	10	1144 C.E.
12334	Jan 10 1145 C.E.	20:54:12	2139279.3709724	1145 Jan 10 21:09:19	000907	LNN	Asc.	1.5242	0.0832	-0.9600	084	---	---	22.2N	49.7E	15	11	1145 C.E.
12335	Jun 06 1145 C.E.	20:48:26	2139426.3669649	1145 Jun 06 21:03:31	000905	LPU	Dec.	0.9538	1.0818	1.1336	252	161	---	22.3S	47.6E	14	03	1145 C.E.
12336	Dec 01 1145 C.E.	05:24:46	2139603.7255274	1145 Dec 01 05:39:50	000904	LPU	Dec.	-0.7424	1.5492	0.4433	335	154	---	22.2N	82.7W	14	09	1145 C.E.
12337	Nov 27 1146 C.E.	14:02:24	2139781.0849987	1146 Nov 27 14:17:25	000902	LTU	Dec.	0.2160	2.4336	1.4895	315	201	089	22.1S	148.5E	14	03	1146 C.E.
12338	Nov 20 1146 C.E.	05:06:36	2139957.1219153	1146 Nov 20 05:21:38	000900	LTU	Dec.	-0.0537	2.8015	1.7181	369	231	103	21.1N	369.4W	13	09	1146 C.E.
12339	May 17 1147 C.E.	05:24:34	2140135.2353938	1147 May 17 05:39:32	000899	LPU	Dec.	-0.5454	1.8480	0.8664	313	182	---	21.1S	82.5W	15	03	1147 C.E.
12340	Nov 09 1147 C.E.	10:56:31	2140311.9559147	1147 Nov 09 11:11:29	000897	LPU	Asc.	0.6404	1.6962	0.6700	314	170	---	19.3N	167.9W	12	09	1147 C.E.
12341	Apr 06 1148 C.E.	00:44:14	2140460.5307149	1148 Apr 06 00:59:08	000895	LNN	Dec.	1.4509	0.2296	-0.8374	145	---	---	7.7S	10.4W	15	01	1148 C.E.
12342	May 05 1148 C.E.	14:43:57	2140490.1138580	1148 May 05 14:58:52	000895	LNN	Dec.	-1.3620	0.3779	-0.6597	178	---	---	19.3S	137.3E	14	02	1148 C.E.
12343	Sep 29 1148 C.E.	13:56:22	2140637.0808146	1148 Sep 29 14:11:17	000894	LNN	Asc.	-1.3474	0.3654	-0.5942	157	---	---	4.0N	148.6E	13	07	1148 C.E.
12344	Oct 28 1148 C.E.	23:41:47	2140666.4873480	1148 Oct 28 23:56:41	000894	LNN	Asc.	1.2830	0.4920	-0.4844	182	---	---	16.9N	0.2E	13	08	1148 C.E.
12345	Mar 26 1149 C.E.	00:59:14	2140814.5411372	1149 Mar 26 01:14:06	000892	LPU	Dec.	0.7386	1.5437	0.4625	332	157	---	4.1S	13.5W	14	01	1149 C.E.
12346	Sep 19 1149 C.E.	06:00:16	2140991.7501842	1149 Sep 19 06:15:05	000890	LPU	Asc.	-0.6792	1.5983	0.6249	292	156	---	0.4N	91.9W	14	07	1149 C.E.
12347	Mar 15 1150 C.E.	03:20:30	2141168.6392335	1150 Mar 15 03:35:20	000889	LTU	Dec.	-0.0116	2.8605	1.8136	358	228	104	0.3S	48.2W	13	01	1150 C.E.
12348	Sep 08 1150 C.E.	18:15:24	2141346.2606958	1150 Sep 08 18:30:08	000887	LPU	Asc.	0.0402	2.7950	1.7739	347	223	102	3.2S	84.9E	15	07	1150 C.E.
12349	Mar 04 1151 C.E.	12:39:22	2141523.0273344	1151 Mar 04 12:54:07	000885	LPU	Dec.	-0.7335	1.5090	0.5152	294	149	---	3.3N	172.6E	13	13	1151 C.E.
12350	Aug 28 1151 C.E.	23:31:21	2141700.4801063	1151 Aug 28 23:46:05	000884	LPU	Asc.	0.8035	1.4088	0.3403	318	136	---	6.8S	6.4E	14	06	1151 C.E.
12351	Jan 23 1152 C.E.	17:49:11	2141848.2424933	1152 Jan 23 18:03:54	000882	LNN	Dec.	1.2391	0.5684	-0.3997	192	---	---	19.0N	97.0E	14	11	1152 C.E.
12352	Feb 22 1152 C.E.	03:29:59	2141877.6458228	1152 Feb 22 03:44:41	000882	LNN	Dec.	-1.3878	0.2926	-0.6695	141	---	---	6.8N	49.7W	14	12	1152 C.E.
12353	Jul 18 1152 C.E.	08:46:08	2142024.8653653	1152 Jul 18 09:00:48	000880	LNN	Asc.	-1.3133	0.4770	-0.5798	203	---	---	21.0S	129.9W	13	05	1152 C.E.
12354	Aug 16 1152 C.E.	23:51:27	2142054.4940674	1152 Aug 16 00:06:07	000880	LNN	Asc.	1.5433	0.0651	-1.0118	079	---	---	10.2S	1.9E	14	06	1152 C.E.
12355	Jan 12 1153 C.E.	08:25:02	2142202.8507163	1153 Jan 12 08:39:40	000879	LPU	Dec.	0.5964	1.7652	0.7622	308	175	---	21.0N	122.9W	14	11	1153 C.E.
12356	Jul 07 1153 C.E.	14:52:41	2142379.1199141	1153 Jul 07 15:07:19	000877	LPU	Asc.	-0.5026	1.9383	0.9333	326	194	---	22.3S	137.9E	12	04	1153 C.E.
12357	Jan 01 1154 C.E.	17:25:06	2142557.2257582	1154 Jan 01 17:39:38	000875	LTU	Dec.	-0.0976	2.7102	1.6484	358	226	100	22.2N	100.9E	15	10	1154 C.E.
12358	Jun 27 1154 C.E.	04:05:18	2142733.6703415	1154 Jun 27 04:19:														

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar				
										Pen.	Par.	Lat.	Lon.	Day	Month	Year		
12413	May 07 1175 C.E.	18:17:35	2150353.2622112	1175	May 07	18:30:57	000804	LTU	Asc.	-0.1334	2.6405	1.5867	365	230	101	18.7S	84.3E	15 02 1175 C.E.
12414	Oct 31 1175 C.E.	07:33:32	2150529.8149583	1175	Oct 31	07:46:56	000803	LTU	Dec.	0.0685	2.7169	1.7477	320	207	097	16.3N	117.2W	13 08 1175 C.E.
12415	Apr 25 1176 C.E.	19:14:32	2150707.3017551	1176	Apr 25	19:27:53	000801	LPU	Asc.	0.6255	1.7479	0.6733	345	183	---	15.0S	70.5E	14 02 1176 C.E.
12416	Oct 19 1176 C.E.	23:26:40	2150884.4768464	1176	Oct 19	23:39:58	000799	LPU	Dec.	-0.6126	1.7215	0.7463	297	166	---	12.2N	4.7E	14 08 1176 C.E.
12417	Mar 16 1177 C.E.	08:02:39	2151031.8351756	1177	Mar 16	08:15:57	000798	LNN	Asc.	-1.4387	0.2317	-0.7950	138	---	---	2.3S	119.3W	13 01 1177 C.E.
12418	Apr 14 1177 C.E.	21:07:36	2151061.3802835	1177	Apr 14	21:20:54	000798	LNN	Asc.	1.3418	0.4194	-0.6271	188	---	---	10.8S	42.9E	13 02 1177 C.E.
12419	Sep 09 1177 C.E.	23:11:05	2151209.4660347	1177	Sep 09	23:24:22	000797	LNN	Dec.	1.4298	0.2550	-0.7857	146	---	---	1.3S	10.4E	14 07 1177 C.E.
12420	Oct 09 1177 C.E.	12:15:51	2151239.0110057	1177	Oct 09	12:29:07	000796	LNN	Dec.	-1.3577	0.3766	-0.6428	170	---	---	7.7N	172.9E	14 08 1177 C.E.
12421	Mar 05 1178 C.E.	19:40:15	2151386.3196164	1178	Mar 05	19:53:31	000795	LPU	Asc.	-0.6615	1.6330	0.6553	296	160	---	2.6N	67.4E	14 13 1178 C.E.
12422	Aug 30 1178 C.E.	02:09:35	2151563.5899892	1178	Aug 30	02:22:49	000794	LPU	Dec.	0.7412	1.5376	0.4590	331	156	---	6.2S	33.1W	14 06 1178 C.E.
12423	Feb 23 1179 C.E.	11:29:42	2151740.9789552	1179	Feb 23	11:42:53	000792	LTU	Asc.	0.0436	2.7581	1.7977	319	206	098	7.4N	169.1W	14 12 1179 C.E.
12424	Aug 19 1179 C.E.	02:18:24	2151917.5961165	1179	Aug 19	02:31:37	000790	LTU	Dec.	0.0045	2.8850	1.8153	372	234	106	10.9S	34.3W	13 06 1179 C.E.
12425	Feb 13 1180 C.E.	02:56:44	2152095.6227312	1180	Feb 13	03:09:52	000789	LPU	Asc.	0.7474	1.4805	0.4926	289	144	---	12.0N	40.2W	15 12 1180 C.E.
12426	Aug 07 1180 C.E.	07:01:42	2152271.7928468	1180	Aug 07	07:14:50	000787	LPU	Dec.	-0.7403	1.5094	0.4900	308	153	---	15.2S	104.4W	13 06 1180 C.E.
12427	Jan 02 1181 C.E.	21:27:14	2152420.3939067	1181	Jan 02	21:40:20	000786	LNN	Asc.	-1.4047	0.3205	-0.7587	168	---	---	20.8N	40.5E	15 11 1181 C.E.
12428	Feb 01 1181 C.E.	13:27:56	2152450.9610641	1181	Feb 01	13:41:02	000786	LNN	Asc.	1.5091	0.1119	-0.9333	098	---	---	16.3N	162.3E	14 12 1181 C.E.
12429	Jun 28 1181 C.E.	11:40:39	2152596.9865597	1181	Jun 28	11:53:44	000785	LNN	Dec.	1.0960	0.8194	-0.1259	225	---	---	21.8S	174.5W	13 04 1181 C.E.
12430	Jul 27 1181 C.E.	19:05:57	2152626.2957974	1181	Jul 27	19:19:02	000784	LNN	Dec.	-1.4323	0.2123	-0.7526	124	---	---	19.0S	75.0E	13 05 1181 C.E.
12431	Dec 22 1181 C.E.	21:29:41	2152774.3956191	1181	Dec 22	21:42:45	000783	LPU	Asc.	-0.7570	1.5227	0.4164	334	150	---	22.6N	38.7E	14 10 1181 C.E.
12432	Jun 18 1182 C.E.	04:56:08	2152951.7056445	1182	Jun 18	05:09:09	000782	LTU	Dec.	0.3657	2.1598	1.2139	310	192	065	23.1S	73.9W	14 04 1182 C.E.
12433	Dec 11 1182 C.E.	21:32:16	2153128.3974110	1182	Dec 11	21:45:19	000780	LTU	Asc.	-0.0656	2.7781	1.6980	367	230	103	23.4N	36.6E	13 10 1182 C.E.
12434	Jun 07 1183 C.E.	19:48:45	2153306.3255199	1183	Jun 07	20:01:41	000778	LTU	Dec.	-0.3976	2.1216	1.1352	326	201	055	23.7S	62.3E	15 03 1183 C.E.
12435	Dec 01 1183 C.E.	04:02:06	2153482.6681244	1183	Dec 01	04:15:04	000777	LPU	Asc.	0.6242	1.7241	0.7014	313	172	---	23.4N	62.3W	13 09 1183 C.E.
12436	May 27 1184 C.E.	04:18:21	2153660.6794144	1184	May 27	04:31:18	000776	LNN	Asc.	-1.2149	0.6496	-0.3914	229	---	---	23.4S	65.8W	15 03 1184 C.E.
12437	Oct 21 1184 C.E.	06:55:29	2153807.7885303	1184	Oct 21	07:08:23	000774	LNN	Asc.	-1.3913	0.2871	-0.6772	140	---	---	12.0N	107.1W	13 08 1184 C.E.
12438	Nov 19 1184 C.E.	17:10:10	2153837.2153974	1184	Nov 19	17:23:04	000774	LNN	Asc.	1.2607	0.5331	-0.4437	188	---	---	22.4N	99.3E	14 09 1184 C.E.
12439	Apr 16 1185 C.E.	14:47:04	2153985.1160242	1185	Apr 16	14:59:58	000773	LPU	Dec.	0.8654	1.3069	0.2341	313	115	---	11.9S	138.0E	13 02 1185 C.E.
12440	Oct 10 1185 C.E.	22:29:38	2154162.4372412	1185	Oct 10	22:42:28	000771	LPU	Asc.	-0.7424	1.4875	0.5041	288	144	---	8.8N	19.4E	14 08 1185 C.E.
12441	Apr 05 1186 C.E.	18:07:21	2154339.2550994	1186	Apr 05	18:20:13	000770	LPU	Dec.	0.0932	2.7044	1.6701	354	226	102	8.6S	88.3E	14 01 1186 C.E.
12442	Sep 30 1186 C.E.	09:46:15	2154516.9071125	1186	Sep 30	09:59:01	000768	LTU	Asc.	-0.0392	2.8033	1.7694	351	224	102	5.4N	149.5W	14 07 1186 C.E.
12443	Mar 26 1187 C.E.	04:30:57	2154693.6881582	1187	Mar 26	04:43:45	000767	LPU	Dec.	-0.6466	1.6627	0.6804	301	165	---	5.2S	67.1W	13 01 1187 C.E.
12444	Sep 19 1187 C.E.	13:56:41	2154871.8102095	1187	Sep 19	14:09:25	000765	LPU	Dec.	0.7084	1.5980	0.5189	333	164	---	1.6N	148.4E	14 07 1187 C.E.
12445	Feb 14 1188 C.E.	11:02:31	2155018.9600819	1188	Feb 14	11:15:15	000764	LNN	Dec.	1.2751	0.5008	-0.4642	181	---	---	11.9N	161.3W	14 12 1188 C.E.
12446	Mar 14 1188 C.E.	20:02:06	2155048.3347891	1188	Mar 14	20:14:49	000764	LNN	Dec.	-1.3205	0.4126	-0.5427	165	---	---	1.7S	60.7E	14 01 1188 C.E.
12447	Aug 08 1188 C.E.	22:20:16	2155195.4307364	1188	Aug 08	22:32:58	000763	LNN	Asc.	-1.4525	0.2212	-0.8350	141	---	---	15.2S	26.3E	13 06 1188 C.E.
12448	Sep 07 1188 C.E.	13:49:24	2155225.0795862	1188	Sep 07	14:02:05	000762	LNN	Asc.	1.4233	0.2874	-0.7938	163	---	---	2.2S	150.8E	13 07 1188 C.E.
12449	Feb 03 1189 C.E.	18:28:24	2155373.5613909	1189	Feb 03	18:41:04	000761	LPU	Dec.	0.6245	1.7144	0.7100	308	171	---	15.0N	17.9W	15 12 1189 C.E.
12450	Jul 29 1189 C.E.	05:12:04	2155549.7167087	1189	Jul 29	05:24:45	000760	LPU	Asc.	-0.6434	1.6781	0.6768	311	172	---	17.8S	76.6W	13 05 1189 C.E.
12451	Jan 23 1190 C.E.	09:54:07	2155727.9125831	1190	Jan 23	10:06:42	000758	LTU	Dec.	-0.0782	2.7469	1.6828	361	228	102	17.6N	144.8W	14 11 1190 C.E.
12452	Jul 18 1190 C.E.	18:58:39	2155904.9907304	1190	Jul 18	19:11:17	000757	LTU	Asc.	0.1294	2.5972	1.6436	321	207	096	19.7S	76.5E	14 05 1190 C.E.
12453	Jan 12 1191 C.E.	11:10:27	2156081.2665920	1191	Jan 12	11:23:02	000755	LPU	Dec.	-0.7870	1.4659	0.3632	329	141	---	19.8N	164.7W	14 11 1191 C.E.
12454	Jul 08 1191 C.E.	12:03:33	2156259.0024691	1191	Jul 08	12:16:07	000754	LPU	Asc.	0.8572	1.2563	0.3134	264	105	---	20.9S	179.9E	14 04 1191 C.E.
12455	Dec 02 1191 C.E.	17:15:44	2156406.2192561	1191	Dec 02	17:28:16	000752	LNN	Dec.	1.5273	0.0880	-0.9761	088	---	---	24.4N	99.6E	13 09 1191 C.E.
12456	Jan 01 1192 C.E.	10:32:20	2156435.9391218	1192	Jan 01	10:44:52	000752	LNN	Dec.	-1.4420	0.2572	-0.8322	153	---	---	21.1N	156.3W	13 10 1192 C.E.
12457	May 28 1192 C.E.	18:33:40	2156584.2733793	1192	May 28	18:46:11	000751	LPU	Asc.	-0.9628	1.0925	0.0901	270	069	---	23.5S	80.7E	15 03 1192 C.E.
12458	Nov 21 1192 C.E.	01:55:22	2156760.5801135	1192	Nov 21	02:07:53	000750	LPU	Dec.	0.7752	1.4387	0.4328	290	139	---	22.2N	31.5W	13 09 1192 C.E.
12459	Mar 18 1193 C.E.	00:57:59	2156938.5402616	1193	Mar 18	01:10:25	000748	LTU	Asc.	-0.2139	2.4931	1.4384	364	228	093	21.1S	15.7W	15 03 1193 C.E.
12460	Nov 10 1193 C.E.	16:17:39	2157115.1789278	1193	Nov 10	16:30:08	000748	LTU	Dec.	0.0789	2.6983	1.7281	320	207	097	19.3N	112.2E	14 09 1193 C.E.
12461	May 07 1194 C.E.	01:50:36	2157292.1507771	1194	May 07	02:03:02	000746	LPU	Dec.	0.5480	1.8889	0.8170	352	197	---	18.0S	28.8W	14 02 1194 C.E.
12462	Oct 31 1194 C.E.	08:00:50	2157469.8339107	1194	Oct 31	08:13:14	000745	LPU	Dec.	-0.5981	1.7500	0.7710	299	169	---	15.7N	123.9W	14 08 1194 C.E.
12463	Mar 27 1195 C.E.	15:37:07	2157617.1507771	1195	Mar 27	15:49:31	000744	LNN	Asc.	-1.4800	0.1527	-0.8675	112	---	---	6.6S	126.1E	13 01 1195 C.E.
12464	Apr 26 1195 C.E.	04:07:38	2157646.6719650	1195	Apr 26	04:20:01	000743	LNN	Asc.	1.2725	0.5438	-0.4971	210	---	---	14.3S	62.7W	13 02 1195 C.E.
12465	Sep 21 1195 C.E.	06:45:26																

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase			Greatest in Zenith		Hebrew Date on the Creation Calendar						
										Pen.	Par.	Tot.	Lat.	Lon.	Day	Month	Year				
12520	Feb 23 1217 C.E.	05:29:36	2165620.7288834	1217 Feb 23 05:40:56	000681	LNN	Asc.	1.4720	0.1802	-0.8655	124	---	---	8.5N	78.7W	15	12	1217	C.E.		
12521	Jul 20 1217 C.E.	02:41:57	2165767.6124623	1217 Jul 20 02:53:17	000680	LNN	Dec.	1.2315	0.5707	-0.3745	192	---	---	18.2S	39.4W	13	05	1217	C.E.		
12522	Aug 18 1217 C.E.	10:22:12	2165796.9320863	1217 Aug 18 10:33:31	000679	LNN	Dec.	-1.3073	0.4416	-0.5231	174	---	---	12.1S	154.9W	13	06	1217	C.E.		
12523	Jan 13 1218 C.E.	13:29:02	2165945.0618279	1218 Jan 13 13:40:20	000678	LPU	Asc.	-0.7753	1.4877	0.3841	331	145	---	---	19.4N	160.9E	13	11	1218	C.E.	
12524	Jul 09 1218 C.E.	19:49:37	2166122.3621256	1218 Jul 09 20:00:54	000677	LPU	Dec.	0.5137	1.8905	0.9401	303	178	---	---	21.0S	63.6E	14	05	1218	C.E.	
12525	Jan 02 1219 C.E.	14:02:19	2166299.0849382	1219 Jan 02 14:13:37	000676	LTU	Asc.	-0.0764	2.7553	1.6813	364	229	102	---	---	22.1N	151.7E	13	11	1219	C.E.
12526	Jun 29 1219 C.E.	10:02:19	2166476.9182707	1219 Jun 29 10:13:30	000674	LTU	Dec.	-0.2441	2.4069	1.4133	336	214	088	---	---	23.1S	149.9W	14	04	1219	C.E.
12527	Dec 22 1219 C.E.	21:19:30	2166653.3885386	1219 Dec 22 21:30:44	000673	LPU	Asc.	0.6154	1.7376	0.7204	312	173	---	---	---	23.9N	41.1E	13	10	1219	C.E.
12528	Jun 17 1220 C.E.	17:35:50	2166831.2332134	1220 Jun 17 17:47:01	000672	LNN	Dec.	-1.0554	0.9449	-0.1012	270	---	---	---	---	24.5S	96.1E	15	04	1220	C.E.
12529	Nov 12 1220 C.E.	00:19:40	2166978.5136569	1220 Nov 12 00:30:51	000671	LNN	Asc.	-1.4166	0.2428	-0.7255	129	---	---	---	---	18.3N	7.8W	14	09	1220	C.E.
12530	Dec 11 1220 C.E.	10:52:25	2167007.9530621	1220 Dec 11 11:03:35	000670	LNN	Asc.	1.2491	0.5538	-0.4219	191	---	---	---	---	24.8N	163.6W	13	10	1220	C.E.
12531	May 08 1221 C.E.	04:09:33	2167155.6732955	1221 May 08 04:20:41	000669	LNT	Dec.	1.0128	1.0325	-0.0326	285	---	---	---	---	18.0S	63.3W	13	02	1221	C.E.
12532	Nov 01 1221 C.E.	15:25:28	2167333.1426807	1221 Nov 01 15:36:35	000668	LPU	Asc.	-0.7819	1.4198	0.4269	285	136	---	---	---	16.1N	125.1E	15	08	1221	C.E.
12533	Apr 27 1222 C.E.	08:29:10	2167509.8535891	1222 Apr 27 08:40:19	000667	LTU	Dec.	0.2220	2.4620	1.4396	348	220	091	---	---	15.7S	128.3W	13	02	1222	C.E.
12534	Oct 22 1222 C.E.	01:45:09	2167687.3032666	1222 Oct 22 01:56:12	000665	LTU	Asc.	-0.0918	2.7128	1.6668	354	225	101	---	---	13.4N	30.1W	14	08	1222	C.E.
12535	Apr 16 1223 C.E.	19:56:28	2167864.3308780	1223 Apr 16 20:07:33	000664	LPU	Dec.	-0.5354	1.8612	0.8897	308	180	---	---	---	13.1S	60.1E	14	02	1223	C.E.
12536	Oct 11 1223 C.E.	04:53:53	2168041.7040827	1223 Oct 11 05:04:56	000663	LPU	Asc.	0.6353	1.7372	0.6482	343	180	---	---	---	10.0N	77.3W	14	08	1223	C.E.
12537	Mar 07 1224 C.E.	03:45:51	2168189.6568449	1224 Mar 07 03:56:53	000662	LNN	Dec.	1.3355	0.3881	-0.5733	162	---	---	---	---	3.6N	53.4W	14	13	1224	C.E.
12538	Apr 05 1224 C.E.	12:03:44	2168219.0025875	1224 Apr 05 12:14:44	000661	LNN	Dec.	-1.2286	0.5781	-0.3710	192	---	---	---	---	10.0S	178.6E	13	01	1224	C.E.
12539	Aug 30 1224 C.E.	12:29:01	2168366.6201529	1224 Aug 30 12:40:01	000660	LNN	Asc.	-1.5662	0.0130	-1.0438	034	---	---	---	---	7.6S	172.8E	13	06	1224	C.E.
12540	Sep 29 1224 C.E.	04:26:39	2168395.6851717	1224 Sep 29 04:37:39	000660	LNN	Asc.	1.3317	0.4577	-0.6277	202	---	---	---	---	6.3N	70.2W	13	07	1224	C.E.
12541	Feb 24 1225 C.E.	18:01:33	2168544.2510812	1225 Feb 24 18:12:31	000659	LPU	Dec.	0.6755	1.6209	0.6162	304	163	---	---	---	7.1N	93.1E	15	12	1225	C.E.
12542	Aug 19 1225 C.E.	19:59:40	2168720.3331058	1225 Aug 19 20:03:39	000658	LPU	Asc.	-0.7645	1.4549	0.4555	296	145	---	---	---	11.0S	60.6E	13	06	1225	C.E.
12543	Feb 14 1226 C.E.	01:55:19	2168898.5800782	1226 Feb 14 02:06:12	000656	LTU	Dec.	-0.0382	2.8205	1.7560	363	229	103	---	---	10.6N	25.1W	15	12	1226	C.E.
12544	Aug 09 1226 C.E.	10:11:50	2169074.9248846	1226 Aug 09 10:22:46	000655	LTU	Asc.	-0.0020	2.8311	1.8772	321	208	100	---	---	13.9S	152.2W	13	06	1226	C.E.
12545	Oct 30 1227 C.E.	02:51:40	2169252.6192121	1227 Oct 30 03:02:34	000654	LPU	Dec.	-0.7531	1.5262	0.4270	333	152	---	---	---	13.9N	39.3W	14	12	1227	C.E.
12546	Jul 30 1227 C.E.	03:11:15	2169429.6238085	1227 Jul 30 03:22:08	000653	LPU	Asc.	0.7225	1.5062	0.5581	282	142	---	---	---	16.3S	47.0W	14	05	1227	C.E.
12547	Dec 24 1227 C.E.	10:00:38	2169576.9171058	1227 Dec 24 10:11:30	000652	LNN	Dec.	1.5267	0.0863	-0.9721	087	---	---	---	---	24.6N	148.7W	13	10	1227	C.E.
12548	Jan 23 1228 C.E.	02:41:11	2169606.6119299	1228 Jan 23 02:52:03	000651	LNN	Dec.	-1.4157	0.3017	-0.7801	164	---	---	---	---	16.6N	37.1W	13	11	1228	C.E.
12549	Jun 19 1228 C.E.	08:32:22	2169754.8558127	1228 Jun 19 08:43:12	000650	LNN	Asc.	-1.1254	0.7976	-0.2112	240	---	---	---	---	24.5S	127.7W	14	04	1228	C.E.
12550	Jul 18 1228 C.E.	18:17:39	2169784.2622527	1228 Jul 18 18:28:28	000650	LNN	Asc.	1.4996	0.0982	-0.8853	078	---	---	---	---	18.2S	86.3E	15	05	1228	C.E.
12551	Dec 12 1228 C.E.	19:20:48	2169931.3061070	1228 Dec 12 19:31:33	000649	LPU	Dec.	0.7777	1.4321	0.4301	288	138	---	---	---	24.3N	69.7E	13	10	1228	C.E.
12552	Jun 08 1229 C.E.	14:06:08	2170109.0875917	1229 Jun 08 14:16:55	000648	LTU	Asc.	-0.3835	2.1833	1.1258	358	216	056	---	---	23.8S	148.2E	14	04	1229	C.E.
12553	Dec 02 1229 C.E.	09:58:23	2170285.9155413	1229 Dec 02 10:09:09	000646	LTU	Dec.	0.0900	2.6786	1.7072	319	207	096	---	---	23.1N	151.1W	13	10	1229	C.E.
12554	May 28 1230 C.E.	14:49:10	2170463.1174779	1230 May 28 14:59:55	000645	LTU	Asc.	0.3802	2.1945	1.1271	363	218	057	---	---	22.2S	136.9E	13	03	1230	C.E.
12555	Nov 22 1230 C.E.	01:25:22	2170640.5592865	1230 Nov 22 01:36:05	000644	LPU	Dec.	-0.5835	1.7804	0.7943	302	173	---	---	---	21.0N	23.9W	14	09	1230	C.E.
12556	May 17 1231 C.E.	17:55:31	2170817.6258263	1231 May 17 18:06:15	000643	LNN	Asc.	1.1199	0.8186	-0.2121	249	---	---	---	---	19.8S	90.1E	13	03	1231	C.E.
12557	Oct 12 1231 C.E.	22:15:34	2170965.4274769	1231 Oct 12 22:26:16	000642	LNN	Dec.	1.5450	0.0531	-1.0062	069	---	---	---	---	11.6N	22.1E	14	08	1231	C.E.
12558	Nov 11 1231 C.E.	13:03:09	2170995.0438586	1231 Nov 11 13:13:51	000641	LNN	Dec.	-1.3215	0.4514	-0.5846	187	---	---	---	---	18.1N	161.0E	14	09	1231	C.E.
12559	Apr 06 1232 C.E.	19:31:49	2171142.3137594	1232 Apr 06 19:42:29	000640	LPU	Asc.	-0.7897	1.3902	0.4276	278	129	---	---	---	10.2S	66.8E	14	01	1232	C.E.
12560	Sep 30 1232 C.E.	23:50:27	2171319.4933657	1232 Oct 01 00:01:05	000639	LPU	Dec.	0.8838	1.2826	0.1911	313	105	---	---	---	6.7N	0.9W	14	07	1232	C.E.
12561	Mar 27 1233 C.E.	12:04:46	2171497.0033121	1233 Mar 27 12:15:24	000638	LTU	Asc.	-0.0699	2.7060	1.7531	318	206	098	---	---	5.5S	179.6E	14	01	1233	C.E.
12562	Sep 19 1233 C.E.	23:50:01	2171673.9493051	1233 Sep 20 00:00:40	000637	LTU	Dec.	0.1656	2.5912	1.5179	368	229	098	---	---	1.7N	0.2E	13	07	1233	C.E.
12563	Jul 19 1234 C.E.	03:28:41	2171851.6449182	1234 Jul 19 03:39:19	000635	LPU	Asc.	0.6602	1.6402	0.6531	301	163	---	---	---	0.7S	50.3W	15	01	1234	C.E.
12564	Sep 09 1234 C.E.	05:24:33	2172027.6235803	1234 Sep 09 05:35:08	000634	LPU	Dec.	-0.5683	1.8242	0.8064	322	184	---	---	---	3.3S	82.3W	13	07	1234	C.E.
12565	Feb 04 1235 C.E.	21:37:06	2172176.4007666	1235 Feb 04 21:47:39	000633	LNN	Asc.	-1.4525	0.2334	-0.8468	145	---	---	---	---	12.6N	39.3E	15	12	1235	C.E.
12566	Mar 06 1235 C.E.	13:16:55	2172206.0534131	1235 Mar 06 13:27:28	000633	LNN	Asc.	1.4439	0.2318	-0.8139	140	---	---	---	---	4.2N	163.7E	14	13	1235	C.E.
12567	Jul 31 1235 C.E.	10:18:32	2172352.9295335	1235 Jul 31 10:29:03	000632	LNN	Dec.	1.2946	0.4554	-0.4907	173	---	---	---	---	15.3S	153.8W	13	05	1235	C.E.
12568	Aug 29 1235 C.E.	18:11:09	2172382.2577436	1235 Aug 29 18:21:41	000632	LNN	Dec.	-1.2528	0.5419	-0.4234	190	---	---	---	---	8.1S	87.1E	13	06	1235	C.E.
12569																					

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time (UT)								Year	Month	Day	Time (UT)	Pen.	Par.	Lat.	Lon.	Day	Month	Year			
12627	Nov	01	1259	C.E.	20:22:06	2181212.3486805	1259	Nov	01	20:31:39	000573	LPU	Asc.	0.5884	1.8275	0.7303	350	188	---	17.3N	50.4E	14	08	1259	C.E.
12628	Mar	28	1260	C.E.	19:56:22	2181360.3308077	1260	Mar	28	20:05:54	000572	LNN	Dec.	-1.4223	0.2273	-0.7311	126	---	---	4.9S	62.2E	15	01	1260	C.E.
12629	Apr	27	1260	C.E.	03:37:43	2181389.6511925	1260	Apr	27	03:47:15	000572	LNN	Dec.	-1.1442	0.7857	-0.1588	219	---	---	17.2S	55.9W	14	02	1260	C.E.
12630	Oct	20	1260	C.E.	19:41:09	2181566.3202461	1260	Oct	20	19:50:40	000571	LNN	Asc.	1.2670	0.5778	-0.5106	224	---	---	14.3N	60.3E	13	08	1260	C.E.
12631	Mar	18	1261	C.E.	09:58:13	2181714.9154328	1261	Mar	18	10:07:42	000570	LPU	Dec.	0.7539	1.4771	0.4722	297	147	---	1.4S	147.7W	14	01	1261	C.E.
12632	Sep	10	1261	C.E.	11:22:34	2181890.9740095	1261	Sep	10	11:32:04	000569	LPU	Asc.	-0.8597	1.2798	0.2811	281	116	---	2.8S	171.7W	12	07	1261	C.E.
12633	Mar	07	1262	C.E.	17:18:35	2182069.2212412	1262	Mar	07	17:28:02	000568	LTU	Dec.	-0.0302	2.8348	1.7712	365	231	104	2.3N	102.8E	15	13	1262	C.E.
12634	Aug	31	1262	C.E.	01:51:59	2182245.5777711	1262	Aug	31	02:01:27	000567	LTU	Asc.	-0.1120	2.6305	1.6743	319	206	097	6.3S	28.6W	13	06	1262	C.E.
12635	Feb	24	1263	C.E.	18:03:03	2182423.2521187	1263	Feb	24	18:12:29	000566	LPU	Dec.	-0.6950	1.6299	0.5364	340	167	---	6.1N	92.1E	14	12	1263	C.E.
12636	Aug	20	1263	C.E.	18:37:25	2182600.2759826	1263	Aug	20	18:46:48	000564	LPU	Asc.	0.6041	1.7269	0.7717	295	165	---	9.5S	80.5E	14	06	1263	C.E.
12637	Jan	15	1264	C.E.	02:42:31	2182747.1243602	1264	Jan	15	02:51:55	000563	LNN	Dec.	-1.5313	0.0735	-0.9766	080	---	---	21.2N	36.8W	13	11	1264	C.E.
12638	Feb	13	1264	C.E.	18:29:18	2182777.2703489	1264	Feb	13	18:38:42	000563	LNN	Dec.	-1.3699	0.3806	-0.6910	182	---	---	9.7N	85.8E	14	12	1264	C.E.
12639	Jul	10	1264	C.E.	22:26:36	2182925.4351359	1264	Jul	10	22:35:58	000562	LNN	Asc.	-1.2870	0.5054	-0.5120	199	---	---	22.3S	24.9E	15	05	1264	C.E.
12640	Aug	09	1264	C.E.	08:59:09	2182954.8744094	1264	Aug	09	09:08:31	000562	LNN	Asc.	1.3792	0.3244	-0.6698	157	---	---	12.4S	134.6W	14	06	1264	C.E.
12641	Jan	03	1265	C.E.	12:49:46	2183101.9345658	1265	Jan	03	12:59:08	000561	LPU	Dec.	-0.7803	1.4243	0.4283	286	137	---	22.6N	170.2E	13	11	1265	C.E.
12642	Jun	30	1265	C.E.	03:04:33	2183279.6281609	1265	Jun	30	03:13:52	000560	LPU	Asc.	-0.5582	1.8649	0.8031	347	194	---	23.2S	45.2W	14	04	1265	C.E.
12643	Dec	24	1265	C.E.	03:46:25	2183456.5672310	1265	Dec	24	03:55:44	000559	LTU	Dec.	-0.0957	2.6678	1.6969	319	206	096	23.2N	55.3W	14	10	1265	C.E.
12644	Jun	19	1266	C.E.	03:40:46	2183633.6533152	1266	Jun	19	03:50:05	000558	LTU	Asc.	0.2045	2.5153	1.4511	369	230	095	23.3S	55.0W	14	04	1266	C.E.
12645	Dec	13	1266	C.E.	19:00:07	2183811.2917509	1266	Dec	13	19:09:23	000557	LPU	Dec.	-0.5792	1.7909	0.7995	304	175	---	23.0N	74.8E	15	10	1266	C.E.
12646	Jun	08	1267	C.E.	07:35:39	2183987.8164262	1267	Jun	08	07:44:56	000556	LPU	Asc.	0.9561	1.1151	0.0927	279	071	---	22.5S	114.3W	13	03	1267	C.E.
12647	Dec	03	1267	C.E.	05:55:41	2184165.4700669	1267	Dec	03	06:04:56	000555	LNN	Dec.	-1.3715	0.4631	-0.5815	191	---	---	21.8N	90.3W	14	09	1267	C.E.
12648	Mar	28	1268	C.E.	10:54:20	2184312.9544008	1268	Mar	28	11:03:34	000554	LPU	Asc.	-0.9037	1.1767	0.2226	261	089	---	17.4S	164.9W	13	02	1268	C.E.
12649	Oct	22	1268	C.E.	14:59:03	2184490.1243365	1268	Oct	22	15:08:15	000553	LPU	Dec.	-0.9432	1.1771	0.0784	304	069	---	14.7N	131.1E	14	08	1268	C.E.
12650	Jan	18	1269	C.E.	03:50:07	2184667.6598014	1269	Jan	18	03:59:17	000551	LTU	Asc.	-0.1768	2.5081	1.5587	317	203	092	13.5S	58.3W	14	02	1269	C.E.
12651	Oct	11	1269	C.E.	15:00:11	2184844.1251320	1269	Oct	11	15:09:23	000550	LPU	Dec.	-0.2353	2.4642	1.3891	364	225	089	10.2N	131.3E	13	08	1269	C.E.
12652	Apr	07	1270	C.E.	19:03:51	2185022.2943412	1270	Apr	07	19:12:59	000549	LPU	Asc.	0.5675	1.8103	0.8231	311	179	---	9.1S	74.1E	15	01	1270	C.E.
12653	Sep	30	1270	C.E.	21:07:29	2185198.3802010	1270	Sep	30	21:16:39	000548	LPU	Dec.	-0.4886	1.9703	0.9528	326	194	---	5.4N	40.2E	13	07	1270	C.E.
12654	Feb	26	1271	C.E.	13:03:20	2185347.0439802	1271	Feb	26	13:12:27	000547	LNN	Asc.	-1.5127	0.1221	-0.9563	107	---	---	4.6N	166.8E	14	12	1271	C.E.
12655	Mar	28	1271	C.E.	04:19:26	2185376.6801630	1271	Mar	28	04:28:33	000547	LNN	Asc.	1.3641	0.3780	-0.6675	178	---	---	4.4S	63.7W	15	01	1271	C.E.
12656	Aug	22	1271	C.E.	01:49:49	2185523.5726661	1271	Aug	22	01:58:55	000546	LNN	Dec.	-1.1637	0.2520	-0.6972	131	---	---	8.2S	27.8W	13	06	1271	C.E.
12657	Sep	20	1271	C.E.	10:14:43	2185552.9268915	1271	Sep	20	10:23:50	000546	LNN	Dec.	-1.4063	0.7062	-0.2610	213	---	---	0.5N	155.6W	13	07	1271	C.E.
12658	Feb	15	1272	C.E.	12:48:35	2185701.0337401	1272	Feb	15	12:57:40	000545	LPU	Asc.	-0.8345	1.3744	0.2801	321	126	---	9.4N	171.3E	13	12	1272	C.E.
12659	Aug	10	1272	C.E.	18:28:29	2185708.3697800	1272	Aug	10	18:37:33	000544	LPU	Dec.	-0.7159	1.5250	0.5634	287	147	---	12.5S	83.4E	14	06	1272	C.E.
12660	Feb	03	1273	C.E.	14:28:26	2186055.1030788	1273	Feb	03	14:37:32	000543	LTU	Asc.	-0.1122	2.6823	1.6225	359	227	100	13.9N	146.8E	13	12	1273	C.E.
12661	Jul	31	1273	C.E.	07:26:38	2186232.1010141	1273	Jul	31	07:35:37	000542	LPU	Dec.	-0.0244	2.8175	1.8091	345	223	103	16.5S	110.5W	14	05	1273	C.E.
12662	Jan	23	1274	C.E.	23:07:08	2186409.4632924	1274	Jan	23	23:16:11	000541	LPU	Asc.	0.5917	1.7749	0.7699	310	176	---	17.9N	17.1E	13	11	1274	C.E.
12663	Jul	20	1274	C.E.	13:28:02	2186587.0611340	1274	Jul	20	13:37:01	000540	LPU	Dec.	-0.8167	1.3882	0.3312	315	134	---	20.0S	159.4E	14	05	1274	C.E.
12664	Dec	15	1274	C.E.	02:54:28	2186734.6211566	1274	Dec	15	03:03:27	000539	LNN	Asc.	-1.4323	0.2158	-0.7560	122	---	---	22.1N	43.4W	14	10	1274	C.E.
12665	Jan	13	1275	C.E.	13:25:49	2186764.0595949	1275	Jan	13	13:34:48	000539	LNN	Asc.	1.2331	0.5808	-0.3900	194	---	---	21.3N	161.9E	13	11	1275	C.E.
12666	Jun	09	1275	C.E.	23:47:13	2186911.4911198	1275	Jun	09	23:56:12	000538	LNN	Dec.	-1.2549	0.5835	-0.4722	222	---	---	22.3S	3.1E	14	04	1275	C.E.
12667	Jul	09	1275	C.E.	14:16:40	2186941.0994024	1275	Jul	09	14:25:38	000538	LNN	Dec.	-1.5732	0.0663	-1.0627	024	---	---	22.9S	147.1E	13	05	1275	C.E.
12668	Dec	04	1275	C.E.	17:23:09	2187089.2244142	1275	Dec	04	17:32:06	000537	LPU	Asc.	-0.8093	1.3754	0.3709	285	130	---	22.4N	98.1E	15	10	1275	C.E.
12669	May	29	1276	C.E.	05:34:57	2187265.7326050	1276	May	29	05:43:55	000536	LPU	Dec.	-0.4435	2.0479	1.0407	332	201	031	22.3S	84.4W	13	03	1276	C.E.
12670	Nov	23	1276	C.E.	02:24:22	2187443.0620582	1276	Nov	23	02:33:15	000535	LTU	Asc.	-0.1315	2.6475	1.5865	358	225	098	21.8N	38.5W	14	09	1276	C.E.
12671	May	18	1277	C.E.	18:27:08	2187620.2688410	1277	May	18	18:36:02	000533	LPU	Dec.	-0.3321	2.2277	1.2691	317	198	072	21.5S	82.0E	14	03	1277	C.E.
12672																									

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)			Greatest in Zenith		Hebrew Date on the Creation Calendar													
	Year	Month	Day	Hour	Year	Month							Day	Hour	Pen.	Par.	Tot.	Lat.	Lon.	Day	Month	Year	Day	Month	Year						
12734	Jul	10	1302	C.E.	16:37:54	2196804.1929913	1302	Jul	10	16:45:56	000481	LTU	Asc.	0.0314	2.8320	1.7694	371	235	106	21.2S	111.7E	13	05	1302	C.E.						
12735	Jan	04	1303	C.E.	12:33:16	2196982.0231029	1303	Jan	04	12:41:16	000481	LPU	Dec.	-0.5756	1.7991	0.8044	306	176	---	21.2N	174.0E	14	11	1303	C.E.						
12736	Jun	29	1303	C.E.	21:19:51	2197158.3887858	1303	Jun	29	21:27:52	000480	LPU	Asc.	0.7905	1.4157	0.3998	302	140	---	22.0S	40.7E	13	04	1303	C.E.						
12737	Dec	24	1303	C.E.	22:50:23	2197336.4516511	1303	Dec	24	22:58:22	000479	LNN	Dec.	-1.3179	0.4654	-0.5853	193	---	---	21.9N	18.5E	15	10	1303	C.E.						
12738	May	20	1304	C.E.	01:58:52	2197483.5825431	1304	May	20	02:06:50	000478	LNN	Asc.	-1.0343	0.9337	-0.0138	237	---	---	22.5S	30.9W	14	03	1304	C.E.						
12739	Jun	18	1304	C.E.	09:17:37	2197512.8872352	1304	Jun	18	09:25:35	000478	LNN	Asc.	1.4896	0.1061	-0.8568	088	---	---	22.0S	139.3W	13	04	1304	C.E.						
12740	Nov	13	1304	C.E.	06:37:25	2197660.7759834	1304	Nov	13	06:45:22	000477	LPU	Dec.	0.9780	1.1159	0.0121	299	027	---	20.9N	102.7W	14	09	1304	C.E.						
12741	Nov	09	1305	C.E.	19:08:30	2197838.2975719	1305	Nov	09	19:16:26	000476	LTU	Asc.	-0.3054	2.2713	1.3236	313	197	077	19.7S	71.6E	15	02	1305	C.E.						
12742	Nov	02	1305	C.E.	06:47:12	2198014.7827755	1305	Nov	02	06:55:09	000475	LTU	Dec.	0.2772	2.3876	1.3119	361	221	082	17.4N	105.6E	13	08	1305	C.E.						
12743	Apr	29	1306	C.E.	10:05:27	2198192.9204519	1306	Apr	29	10:13:20	000474	LTU	Asc.	0.4499	2.0267	1.0381	322	195	030	16.3S	152.4W	14	02	1306	C.E.						
12744	Oct	22	1306	C.E.	13:27:30	2198369.0607588	1306	Oct	22	13:35:24	000473	LTU	Dec.	-0.4379	2.0648	1.0478	328	198	033	13.4N	154.3E	12	08	1306	C.E.						
12745	Apr	18	1307	C.E.	18:42:01	2198547.2791760	1307	Apr	18	18:49:52	000472	LNN	Asc.	1.2554	0.5777	-0.4680	217	---	---	12.3S	79.1E	15	02	1307	C.E.						
12746	Sep	12	1307	C.E.	17:49:23	2198694.2426267	1307	Sep	12	17:57:14	000472	LNN	Dec.	-1.9541	0.0915	-0.8625	080	---	---	0.2N	90.5E	14	07	1307	C.E.						
12747	Oct	12	1307	C.E.	02:52:19	2198723.6196692	1307	Oct	12	03:00:10	000471	LNN	Dec.	-1.1018	0.8211	-0.1485	226	---	---	9.0N	46.4W	13	08	1307	C.E.						
12748	Mar	08	1308	C.E.	03:42:39	2198871.6546167	1308	Mar	08	03:50:30	000471	LPU	Asc.	-0.9049	1.2409	0.1551	308	095	---	1.0N	53.6W	14	13	1308	C.E.						
12749	Sep	01	1308	C.E.	09:59:02	2199048.9159977	1308	Sep	01	10:06:51	000470	LPU	Dec.	0.8267	1.3267	0.3554	276	120	---	4.6S	150.8W	14	06	1308	C.E.						
12750	Feb	25	1309	C.E.	06:17:39	2199258.7622533	1309	Feb	25	06:25:30	000469	LPU	Asc.	-0.1622	2.5846	1.5366	355	224	096	6.0N	91.4W	13	12	1309	C.E.						
12751	Aug	21	1309	C.E.	22:00:01	2199403.4166831	1309	Aug	21	22:07:47	000468	LTU	Dec.	0.1025	2.6803	1.6600	348	223	100	9.2S	30.0E	15	06	1309	C.E.						
12752	Feb	14	1310	C.E.	15:56:20	2199580.3141183	1310	Feb	14	16:04:08	000467	LPU	Asc.	0.5549	1.8372	0.8425	311	181	---	10.7N	104.7E	14	12	1310	C.E.						
12753	Jan	11	1310	C.E.	02:56:24	2199757.6224972	1310	Jan	11	03:04:09	000466	LPU	Dec.	-0.6706	1.6607	0.5949	335	173	---	13.7S	43.2W	14	06	1310	C.E.						
12754	Jan	05	1311	C.E.	20:39:35	2199905.6688234	1311	Jan	05	20:47:20	000465	LNN	Asc.	-1.4416	0.1988	-0.7732	118	---	---	20.0N	52.6E	14	11	1311	C.E.						
12755	Feb	04	1311	C.E.	06:50:34	2199934.7851125	1311	Feb	04	06:58:18	000465	LNN	Asc.	1.2090	0.6224	-0.3433	200	---	---	15.1N	98.5W	14	12	1311	C.E.						
12756	Jul	01	1311	C.E.	12:52:41	2200082.3065812	1311	Jul	01	13:00:24	000464	LNN	Dec.	-1.4160	0.2858	-0.7657	159	---	---	21.2S	167.7E	13	04	1311	C.E.						
12757	Jul	31	1311	C.E.	03:21:44	2200111.6400905	1311	Jul	31	03:29:27	000464	LNN	Dec.	-1.4137	0.3000	-0.7709	166	---	---	17.8S	49.0W	14	05	1311	C.E.						
12758	Dec	26	1311	C.E.	10:48:01	2200259.9500114	1311	Dec	26	10:55:43	000463	LPU	Asc.	-0.8193	1.3595	0.3498	286	127	---	22.1N	160.5W	14	10	1311	C.E.						
12759	Jun	19	1312	C.E.	19:35:52	2200336.3165777	1312	Jun	19	19:43:36	000462	LPU	Dec.	0.5971	1.7622	0.7626	317	180	---	22.8S	66.4E	13	04	1312	C.E.						
12760	Dec	14	1312	C.E.	19:04:05	2200614.2950227	1312	Dec	14	19:11:44	000461	LTU	Asc.	-0.1423	2.6311	1.5632	360	226	098	23.4N	74.1E	15	10	1312	C.E.						
12761	Jun	09	1313	C.E.	09:14:15	2200790.8848927	1313	Jun	09	09:21:56	000460	LTU	Dec.	-0.1829	2.4987	1.5459	320	205	093	23.6E	138.8W	13	04	1313	C.E.						
12762	Dec	03	1313	C.E.	20:14:30	2200968.3434010	1313	Dec	03	20:22:09	000459	LPU	Asc.	0.5535	1.8952	0.7906	355	194	---	23.6N	55.0E	14	10	1313	C.E.						
12763	May	30	1314	C.E.	02:20:27	2201145.5975371	1314	May	30	02:28:06	000459	LPU	Dec.	-0.9123	1.1547	0.2129	256	083	---	23.6E	36.0W	14	03	1314	C.E.						
12764	Nov	22	1314	C.E.	19:33:15	2201322.3147600	1314	Nov	22	19:40:54	000458	LNN	Asc.	1.2153	0.6733	-0.4160	238	---	---	22.9N	63.9E	13	09	1314	C.E.						
12765	Apr	20	1315	C.E.	08:41:12	2201470.8619489	1315	Apr	20	08:48:48	000457	LPU	Dec.	0.9245	1.1649	0.1587	276	090	---	13.1S	130.7W	14	02	1315	C.E.						
12766	Oct	13	1315	C.E.	11:36:25	2201646.9836173	1315	Oct	13	11:44:01	000456	LPU	Asc.	-0.9511	1.1123	0.1136	265	074	---	9.8N	177.4W	12	08	1315	C.E.						
12767	Apr	08	1316	C.E.	15:07:04	2201825.1299122	1316	Apr	08	15:14:38	000455	LTU	Dec.	-0.1901	2.5402	1.4787	365	228	095	10.1S	133.1E	14	01	1316	C.E.						
12768	Oct	02	1316	C.E.	02:02:34	2202001.5976210	1316	Oct	02	02:28:09	000454	LTU	Asc.	-0.2301	2.4166	1.4548	316	201	086	6.4N	38.2W	13	07	1316	C.E.						
12769	Mar	28	1317	C.E.	15:42:11	2202179.1542960	1317	Mar	28	15:49:44	000453	LPU	Dec.	-0.5517	1.8876	0.8048	353	196	---	6.6S	124.9E	13	01	1317	C.E.						
12770	Sep	21	1317	C.E.	18:34:13	2202356.2737647	1317	Sep	21	18:41:44	000452	LTU	Asc.	0.4690	1.9815	1.0130	308	185	017	2.9N	78.8E	14	07	1317	C.E.						
12771	Mar	17	1318	C.E.	17:19:16	2202533.2217117	1318	Mar	17	17:26:47	000451	LNN	Dec.	-1.2533	0.5856	-0.4684	219	---	---	2.9S	101.2E	14	01	1318	C.E.						
12772	Aug	12	1318	C.E.	19:30:20	2202681.3127722	1318	Aug	12	19:37:51	000451	LNN	Asc.	-1.5094	1.1053	-0.9281	095	---	---	13.8S	68.7E	15	06	1318	C.E.						
12773	Sep	11	1318	C.E.	07:37:04	2202710.8174093	1318	Sep	11	07:44:34	000450	LNN	Asc.	1.2320	0.6038	-0.4088	211	---	---	0.6N	116.4W	14	07	1318	C.E.						
12774	Feb	05	1319	C.E.	14:41:25	2202858.1120962	1319	Feb	05	14:48:56	000450	LPU	Dec.	0.8061	1.3708	0.3870	280	128	---	14.2N	143.9E	13	12	1319	C.E.						
12775	Aug	01	1319	C.E.	22:42:52	2203035.4464406	1319	Aug	01	22:50:21	000449	LPU	Asc.	-0.8063	1.4145	0.3434	321	138	---	16.7S	20.7E	14	05	1319	C.E.						
12776	Jan	26	1320	C.E.	06:13:09	2203212.7591312	1320	Jan	26	06:20:37	000448	LTU	Dec.	-0.1170	2.6267	1.6596	318	206	095	16.9N	89.4W	14	11	1320	C.E.						
12777	Jul	20	1320	C.E.	23:12:43	2203389.4671590	1320	Jul	20	23:20:11	000447	LTU	Asc.	-0.0509	2.7960	1.7337	370	234	105	19.0S	13.1E	13	05	1320	C.E.						
12778	Jan	14	1321	C.E.	21:14:40	2203567.3851876	1321	Jan	14	21:22:05	000446	LPU	Dec.	-0.5704	1.8092	0.8135	308	177	---	19.0N	44.5E	15	11	1321	C.E.						
12779	Jul	10	1321	C.E.	04:17:47	2203743.6790120	1321	Jul	10	04:25:12	000445	LPU	Asc.	0.7106	1.5609	0.5475	310	160	---	20.6S	63.5W	13	05	1321	C.E.						

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar Day Month Year		
12841	Aug 21 1347 C.E.	16:53:11	2213282.2035991	1347	Aug 21 16:59:50	000399	LNN	Dec.-1.2726	0.5603	-0.5135	221	--- ---	10.6S 107.1E	14 06 1347 C.E.	
12842	Jan 17 1348 C.E.	04:03:01	2213430.6687662	1348	Jan 14:04:09:39	000398	LPU	Asc.-0.8346	1.3332	0.3203	286	123	18.3N	57.5W	15 11 1348 C.E.
12843	Jul 11 1348 C.E.	09:45:43	2213606.9067500	1348	Jul 11 09:52:21	000397	LPU	Dec.-0.7460	1.4863	0.4922	298	149	20.2S	145.3W	13 05 1348 C.E.
12844	Jan 05 1349 C.E.	11:38:54	2213784.9853450	1349	Jan 05 11:45:28	000396	LTU	Asc.-0.1540	2.6118	1.5397	362	226 097	21.3N	172.1W	14 11 1349 C.E.
12845	Jul 01 1349 C.E.	00:02:36	2213961.5018050	1349	Jul 01 00:09:12	000395	LPU	Dec.-0.0330	2.7719	1.8225	321	207 100	22.5S	0.3E	13 04 1349 C.E.
12846	Dec 25 1349 C.E.	12:19:03	2214139.0132300	1349	Dec 25 12:25:38	000395	LPU	Asc.-0.5390	1.9224	0.8167	357	197	23.4N	176.7E	14 10 1349 C.E.
12847	Jun 20 1350 C.E.	17:15:03	2214316.2187853	1350	Jun 20 17:21:37	000394	LPU	Dec.-0.7670	1.4220	0.4789	276	131	24.2S	101.6E	14 04 1350 C.E.
12848	Dec 14 1350 C.E.	11:52:21	2214492.9946826	1350	Dec 14 11:58:53	000393	LNN	Asc.-1.1975	0.7044	-0.3821	242	---	24.6N	178.2W	13 10 1350 C.E.
12849	May 11 1351 C.E.	23:07:39	2214641.4636475	1351	May 11 23:14:11	000392	LNN	Dec.-1.0675	0.9038	-0.1050	252	---	18.9S	12.2E	15 03 1351 C.E.
12850	Jun 10 1351 C.E.	08:44:01	2214670.8638956	1351	Jun 10 08:50:33	000392	LNN	Dec.-1.5474	0.0078	-0.9706	025	---	25.0S	131.4W	14 04 1351 C.E.
12851	Nov 04 1351 C.E.	04:27:28	2214817.6857394	1351	Nov 04 04:33:59	000391	LPU	Asc.-0.9811	1.0570	0.0588	258	053	16.8N	70.3W	13 09 1351 C.E.
12852	Apr 30 1352 C.E.	04:52:47	2214995.7033218	1352	Apr 30 04:59:16	000391	LTU	Dec.-0.3309	2.2817	1.2208	361	220 072	16.9S	74.2W	14 02 1352 C.E.
12853	Oct 23 1352 C.E.	19:18:54	2215172.3047955	1352	Oct 23 19:25:25	000390	LPU	Asc.-0.2764	2.3335	1.3679	314	199 080	14.2N	66.5E	14 08 1352 C.E.
12854	Apr 19 1353 C.E.	05:25:21	2215349.7259403	1353	Apr 19 05:31:51	000389	LTU	Dec.-0.4202	2.1251	1.0498	361	214 036	14.2S	82.3W	14 02 1353 C.E.
12855	Oct 13 1353 C.E.	11:07:33	2215526.9635743	1353	Oct 13 11:14:00	000388	LPU	Asc.-0.4110	2.0928	1.1149	314	193 049	11.2N	170.8W	14 08 1353 C.E.
12856	Apr 08 1354 C.E.	07:56:06	2215703.8306299	1354	Apr 08 08:02:33	000387	LNN	Dec.-1.1418	0.7840	-0.2577	246	---	11.0S	119.6W	13 01 1354 C.E.
12857	Oct 02 1354 C.E.	23:15:19	2215881.4689658	1354	Oct 02 23:21:45	000387	LNN	Asc.-1.1637	0.7356	-0.2897	232	---	7.9N	7.4E	14 07 1354 C.E.
12858	Feb 27 1355 C.E.	07:26:38	2216028.8015167	1355	Feb 27 07:33:04	000386	LPU	Dec.-0.8502	1.2851	0.3106	272	112	6.1N	108.3W	13 12 1355 C.E.
12859	Aug 23 1355 C.E.	12:13:43	2216206.0095228	1355	Aug 23 12:20:07	000385	LPU	Asc.-0.9483	1.1577	0.0792	300	069	9.6S	176.9E	14 06 1355 C.E.
12860	Feb 16 1356 C.E.	23:24:48	2216383.4755512	1356	Feb 16 23:31:11	000384	LTU	Dec.-0.1534	2.5580	1.5948	318	204 093	9.5N	12.4E	14 12 1356 C.E.
12861	Aug 11 1356 C.E.	12:41:23	2216560.0287356	1356	Aug 11 12:47:48	000384	LPU	Asc.-0.2016	2.5198	1.4570	366	228 094	12.9S	170.4E	13 06 1356 C.E.
12862	Feb 05 1357 C.E.	14:20:55	2216738.0978582	1357	Feb 05 14:27:16	000383	LPU	Dec.-0.5479	1.8509	0.8543	311	182	12.7N	148.4E	14 12 1357 C.E.
12863	Jul 31 1357 C.E.	18:29:15	2216914.7203147	1357	Jul 31 18:35:39	000382	LPU	Asc.-0.5604	1.8347	0.8249	323	186	15.6S	83.6E	13 05 1357 C.E.
12864	Jan 25 1358 C.E.	23:48:11	2217092.4917905	1358	Jan 25 23:54:31	000381	LNN	Dec.-1.3040	0.4933	-0.5622	200	---	15.5N	6.3E	15 11 1358 C.E.
12865	Jun 22 1358 C.E.	00:20:51	2217239.5144734	1358	Jun 22 00:27:12	000381	LNN	Asc.-1.2441	0.5463	-0.3961	188	---	24.6S	4.5W	14 04 1358 C.E.
12866	Jul 21 1358 C.E.	07:27:08	2217268.8105036	1358	Jul 21 07:33:28	000380	LNN	Asc.-1.2675	0.5113	-0.4470	186	---	17.7S	110.9W	13 05 1358 C.E.
12867	Dec 16 1358 C.E.	06:36:39	2217416.3754480	1358	Dec 16 06:42:59	000380	LNT	Dec.-1.0039	1.0695	-0.0363	294	---	24.4N	98.8W	14 10 1358 C.E.
12868	Jun 11 1359 C.E.	17:33:19	2217594.2314702	1359	Jun 11 17:39:37	000379	LPU	Asc.-0.5232	1.8725	0.9230	302	177	24.0S	96.7E	15 04 1359 C.E.
12869	Dec 05 1359 C.E.	07:17:51	2217770.8040658	1359	Dec 05 07:24:11	000378	LPU	Dec.-0.3034	2.3380	1.2655	357	218 076	23.5N	110.6W	13 10 1359 C.E.
12870	May 31 1360 C.E.	07:45:30	2217948.8232689	1360	May 31 07:51:45	000377	LTU	Asc.-0.2362	2.4218	1.4274	336	215 080	22.7S	137.0E	14 03 1360 C.E.
12871	Nov 23 1360 C.E.	14:54:13	2218125.1209796	1360	Nov 23 15:00:31	000377	LPU	Dec.-0.4013	2.1286	1.1148	327	200 050	21.6N	114.1W	13 09 1360 C.E.
12872	May 20 1361 C.E.	15:12:46	2218303.1338672	1361	May 20 15:19:02	000376	LNN	Asc.-1.0453	0.9644	-0.0840	272	---	20.6S	130.9E	14 03 1361 C.E.
12873	Nov 13 1361 C.E.	04:43:31	2218479.6988848	1361	Nov 13 04:49:46	000375	LNN	Dec.-1.0526	0.9129	-0.0596	236	---	19.0N	74.0W	13 09 1361 C.E.
12874	Apr 10 1362 C.E.	01:00:22	2218627.5192550	1362	Apr 10 01:06:36	000374	LNN	Asc.-1.0625	0.9446	-0.1270	275	---	11.6N	155.0W	14 02 1362 C.E.
12875	Oct 04 1362 C.E.	10:05:45	2218804.9206654	1362	Oct 04 10:11:58	000373	LPU	Dec.-0.9459	1.1160	0.1286	262	075	8.4S	156.4W	14 08 1362 C.E.
12876	Mar 30 1363 C.E.	05:07:08	2218981.7132841	1363	Mar 30 05:13:23	000373	LTU	Asc.-0.2873	2.3454	1.3166	345	216 081	7.0S	76.3W	13 01 1363 C.E.
12877	Sep 23 1363 C.E.	20:34:01	2219159.3569558	1363	Sep 23 20:40:11	000372	LPU	Dec.-0.2489	2.4213	1.3818	350	219 086	3.5N	48.8E	15 07 1363 C.E.
12878	Jan 18 1364 C.E.	16:20:12	2219336.1806626	1364	Jan 18 16:26:24	000371	LTU	Asc.-0.4548	2.0125	1.0343	314	190 028	2.1S	116.5E	14 01 1364 C.E.
12879	Sep 11 1364 C.E.	23:54:24	2219513.4961125	1364	Sep 12 00:00:34	000370	LPU	Dec.-0.4920	1.9958	0.9154	356	204	1.5S	0.2W	14 07 1364 C.E.
12880	Feb 06 1365 C.E.	22:48:05	2219661.4500657	1365	Feb 06 22:54:16	000371	LNN	Asc.-1.4781	0.1305	-0.8391	096	---	11.2N	21.4E	14 12 1365 C.E.
12881	Mar 08 1365 C.E.	08:08:03	2219690.8389215	1365	Mar 08 08:14:14	000371	LNN	Asc.-1.1345	0.7546	-0.2022	216	---	2.7N	119.4W	14 13 1365 C.E.
12882	Aug 31 1365 C.E.	23:51:21	2219867.4939937	1365	Aug 31 23:57:31	000370	LNN	Dec.-1.2108	0.6745	-0.4009	239	---	6.5S	1.7E	13 06 1365 C.E.
12883	Jan 27 1366 C.E.	12:32:59	2220016.0229021	1366	Jan 27 12:39:07	000369	LPU	Asc.-0.8475	1.3099	0.2960	285	119	15.3N	175.4E	14 11 1366 C.E.
12884	Jul 22 1366 C.E.	16:57:44	2220192.2067578	1366	Jul 22 17:03:53	000368	LPU	Dec.-0.8156	1.3576	0.3654	288	130	17.8S	106.7E	13 05 1366 C.E.
12885	Jan 16 1367 C.E.	19:51:17	2220370.3272778	1367	Jan 16 19:57:23	000368	LPU	Asc.-0.1629	2.5961	1.5229	363	227 096	19.0N	65.6E	15 11 1367 C.E.
12886	Jul 12 1367 C.E.	07:29:06	2220546.1818760	1367	Jul 12 07:35:15	000367	LTU	Dec.-0.0404	2.7581	1.8093	320	207 099	20.8S	111.1W	13 05 1367 C.E.
12887	Jan 05 1368 C.E.	20:20:00	2220724.3472261	1368	Jan 05 20:26:06	000366	LPU	Asc.-0.5310	1.9368	0.8317	357	198	22.0N	57.6E	14 11 1368 C.E.
12888	Jul 01 1368 C.E.	00:42:09	2220901.5292749	1368	Jul 01 00:48:14	000365	LPU	Dec.-0.6948	1.5552	0.6105	285	148	23.2S	9.6W	14 04 1368 C.E.
12889	Dec 24 1368 C.E.	20:03:28	2221078.0359249	1368	Dec 24 20:09:34	000365	LNN	Asc.-1.1894	0.7180	-0.3660	243	---	24.1N	60.5E	13 10 1368 C.E.
12890	May 22 1369 C.E.	06:11:31	2221226.7580005	1369	May 22 06:17:35	000364	LNN	Dec.-1.1448	0.7630	-0.2478	236	---	20.8S	93.5W	15 03 1369 C.E.
12891	Jun 20 1369 C.E.	15:55:13	2221256.1633404	1369	Jun 20 16:01:16	000364	LNN	Dec.-1.4792	0.1345	-0.8470	102	---	24.8S	121.6E	14 04 1369 C.E.
12892	Nov 14 1369 C.E.	13:02:51	2221403.0436492	1369	Nov 14 13:08:55	000363	LPU	Asc.-0.9887	1.0427	0.0451	256	046	19.4N	161.4E	13 09 1369 C.E.
12893	Nov 11 1370 C.E.	11:35:10	2221580.9827564	1370	Nov 11 11:41:11	000362	LPU	Dec.-0.4087	2.1388	1.0779	357	213 045	19.5S	174.8W	14 03 1370 C.E.
12894	Nov 04 1370 C.E.	03:57:21	2221757.6648236	1370	Nov 04 04:03:23	000362	LTU	Asc.-0.2920	2.3058	1.3385	314	198 078	17.5N	63.0E	13 09 1370 C.E.
12895	Apr 30 1371 C.E.	12:06:53	2221935.0047755	1371	Apr 30 12:12:54	000361	LPU	Dec.-0.3458	2.2598	1.1879	365	221 076	17.4S	177.1E	13 02 1371 C.E.
12896	Oct 24 1371 C.E.	19:34:22	2222112.3155300	1371	Oct 24 19:40:21	000360	LPU	Asc.-0.3911	2.1315	1.1490	316	195 056	15.0N	62.3E	14 08 1371 C.E.
12897	Apr 18 1372 C.E.	15:03:44	2												

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar Day Month Year		
12948	Aug 11 1394 C.E.	22:36:34	2230439.4420655	1394 Aug 11 22:42:01	000326	LNN	Asc.	1.1347	0.7549	-0.2032	219 ---	11.6S 21.0E	13 06 1394 C.E.		
12949	Jan 06 1395 C.E.	22:39:08	2230587.4438415	1395 Jan 06 22:44:33	000325	LNT	Dec.	1.0191	1.0402	-0.0629	290 ---	22.1N 23.2E	14 11 1395 C.E.		
12950	Jul 03 1395 C.E.	08:20:32	2230764.8475971	1395 Jul 03 08:25:56	000324	LPU	Asc.	-0.6743	1.5976	0.6437	290 154	22.9S 123.9W	14 04 1395 C.E.		
12951	Dec 26 1395 C.E.	23:54:42	2230941.4963223	1395 Dec 27 00:00:08	000324	LTU	Dec.	0.3111	2.3211	1.2541	354 217	23.1N 2.9E	10 10 1395 C.E.		
12952	Jun 21 1396 C.E.	21:51:10	2231119.4105292	1396 Jun 21 21:56:30	000323	LPU	Asc.	0.0803	2.7112	1.7102	343 222	23.2S 32.7E	15 04 1396 C.E.		
12953	Dec 15 1396 C.E.	08:13:47	2231295.8429005	1396 Dec 15 08:19:10	000322	LTU	Dec.	-0.3923	2.1430	1.1335	325 200	054 23.1N	123.3W	13 10 1396 C.E.	
12954	Jun 11 1397 C.E.	04:26:07	2231473.6847989	1397 Jun 11 04:31:27	000321	LPU	Asc.	0.8851	1.2603	0.2083	303 108	---	22.7S	66.6W	14 04 1397 C.E.
12955	Dec 04 1397 C.E.	22:21:59	2231650.4319324	1397 Dec 04 22:27:20	000321	LNN	Dec.	-1.0395	0.9371	-0.0358	238 ---	22.2N	23.4E	14 10 1397 C.E.	
12956	May 01 1398 C.E.	14:36:26	2231798.1086336	1398 May 01 14:41:47	000320	LNN	Asc.	-1.1967	0.6938	-0.3687	241 ---	18.6S	139.6E	13 02 1398 C.E.	
12957	Oct 26 1398 C.E.	02:44:34	2231975.6142869	1398 Oct 26 02:49:53	000319	LPU	Dec.	0.9942	1.0327	0.0349	256 040	---	16.1N	45.3W	14 08 1398 C.E.
12958	Apr 20 1399 C.E.	19:47:21	2232152.3245524	1399 Apr 20 19:52:42	000319	LPU	Asc.	-0.4016	2.1294	1.1129	336 206	051 14.7S	62.3E	13 02 1399 C.E.	
12959	Oct 15 1399 C.E.	12:11:09	2232330.0077413	1399 Oct 15 12:16:25	000318	LTU	Dec.	0.3135	2.3090	1.2572	350 216	075 11.8N	173.3E	14 08 1399 C.E.	
12960	Apr 09 1400 C.E.	08:01:26	2232506.8343263	1400 Apr 09 08:06:44	000317	LPU	Asc.	0.3563	2.1881	1.2202	317 197	066 10.4S	120.5W	13 02 1400 C.E.	
12961	Oct 03 1400 C.E.	14:33:11	2232684.1063774	1400 Oct 03 14:38:27	000317	LTU	Dec.	-0.4072	2.1561	1.0665	363 214	042 7.1N	138.5E	13 08 1400 C.E.	
12962	Feb 28 1401 C.E.	15:40:26	2232832.8206100	1401 Feb 28 15:45:42	000316	LNN	Asc.	-1.5287	0.0364	-0.9306	051 ---	3.0N	127.2E	14 13 1401 C.E.	
12963	Mar 30 1401 C.E.	00:21:18	2232861.5147902	1401 Mar 30 00:26:34	000316	LNN	Asc.	1.0542	0.8993	-0.0521	232 ---	5.9S	4.5W	14 01 1401 C.E.	
12964	Sep 22 1401 C.E.	14:16:54	2233038.0950652	1401 Sep 22 14:22:08	000315	LNN	Dec.	-1.1084	0.8639	-0.2147	265 ---	2.1N	143.5E	13 07 1401 C.E.	
12965	Aug 18 1402 C.E.	05:11:06	2233186.7160426	1402 Aug 18 05:16:20	000315	LPU	Asc.	-0.8891	1.2341	0.2193	281 104	---	7.8N	74.6W	15 12 1402 C.E.
12966	Aug 13 1402 C.E.	07:41:41	2233362.8206100	1402 Aug 13 07:46:56	000314	LPU	Dec.	0.9402	1.1277	0.1379	268 080	---	11.3S	115.1W	13 06 1402 C.E.
12967	Feb 07 1403 C.E.	11:54:42	2233540.9963207	1403 Feb 07 11:59:53	000313	LTU	Asc.	-0.1957	2.5361	1.4624	364 226	094 12.4N	174.9W	14 12 1403 C.E.	
12968	Aug 02 1403 C.E.	22:36:57	2233717.4423234	1403 Aug 02 22:42:11	000313	LTU	Dec.	0.1755	2.5104	1.5613	317 203	093 15.3S	21.8E	13 05 1403 C.E.	
12969	Jan 27 1404 C.E.	12:08:23	2233895.0058165	1404 Jan 27 12:13:34	000312	LPU	Asc.	0.5045	1.9836	0.8820	359 202	---	16.6N	178.2W	14 11 1404 C.E.
12970	Jul 22 1404 C.E.	15:41:17	2234072.1536701	1404 Jul 22 15:46:27	000311	LPU	Dec.	-0.5553	1.8137	0.8640	299 172	---	18.9S	126.1E	14 05 1404 C.E.
12971	Jan 15 1405 C.E.	12:23:05	2234249.0160312	1405 Jan 15 12:28:16	000311	LNN	Asc.	1.1693	0.7514	-0.3254	246 ---	20.3N	177.7E	13 11 1405 C.E.	
12972	Jun 12 1405 C.E.	20:04:54	2234397.3367308	1405 Jun 12 20:10:03	000310	LNN	Dec.	1.3072	0.3679	-0.5485	192 ---	22.3S	59.0E	15 04 1405 C.E.	
12973	Jul 12 1405 C.E.	06:15:03	2234426.7604537	1405 Jul 12 06:20:13	000310	LNN	Dec.	-1.3426	0.3893	-0.6004	170 ---	22.0S	92.3W	14 05 1405 C.E.	
12974	Dec 06 1405 C.E.	06:27:56	2234573.7694037	1405 Dec 06 06:33:06	000309	LPU	Asc.	-0.9946	1.0305	0.0356	254 039	---	22.3N	97.8W	13 10 1405 C.E.
12975	Jun 02 1406 C.E.	00:41:08	2234751.5285622	1406 Jun 02 00:46:16	000309	LPU	Dec.	0.5777	1.8294	0.7673	345 191	---	22.5S	10.7W	14 03 1406 C.E.
12976	Nov 25 1406 C.E.	21:31:35	2234928.3969363	1406 Nov 25 21:36:43	000308	LPU	Asc.	-0.3091	2.2758	1.3058	313 197	075 22.0N	35.0E	14 09 1406 C.E.	
12977	May 22 1407 C.E.	01:14:14	2235105.5515456	1407 May 22 01:19:22	000307	LTU	Dec.	-0.1827	2.5559	1.4902	370 231	097 21.9S	19.5W	14 03 1407 C.E.	
12978	Nov 15 1407 C.E.	12:44:55	2235283.8311910	1407 Nov 15 12:50:00	000307	LPU	Asc.	0.3670	2.1799	1.1892	319 199	062 20.9N	165.5E	14 09 1407 C.E.	
12979	Nov 03 1408 C.E.	05:07:04	2235459.7132353	1408 Nov 03 05:12:10	000306	LPU	Dec.	-0.9307	1.1628	0.1379	284 086	---	20.5S	78.2W	13 03 1408 C.E.
12980	Nov 03 1408 C.E.	23:33:56	2235637.4818992	1408 Nov 03 23:39:01	000305	LNN	Asc.	1.1081	0.8465	-0.1963	249 ---	18.9N	2.4E	14 09 1408 C.E.	
12981	Mar 31 1409 C.E.	07:40:00	2235784.8194485	1409 Mar 31 07:45:06	000305	LPU	Dec.	0.9646	1.0681	0.1077	252 056	---	6.6S	114.1W	13 01 1409 C.E.
12982	Sep 24 1409 C.E.	09:28:37	2235961.8948724	1409 Sep 24 09:33:41	000304	LNN	Asc.	-1.1101	0.8664	-0.2234	269 ---	3.0N	144.4W	13 07 1409 C.E.	
12983	Mar 21 1410 C.E.	00:15:34	2236139.5108083	1410 Mar 21 00:20:36	000303	LTU	Dec.	0.2543	2.3698	1.4127	315 200	084 3.2S	2.5W	14 01 1410 C.E.	
12984	Sep 13 1410 C.E.	09:59:16	2236315.9161591	1410 Sep 13 10:04:21	000303	LPU	Asc.	-0.3787	2.1958	1.1310	356 214	057 0.9S	151.5W	13 07 1410 C.E.	
12985	Mar 10 1411 C.E.	16:01:27	2236494.1260068	1411 Mar 10 16:06:33	000302	LPU	Dec.	-0.4704	1.9931	0.9965	320 193	---	0.4N	136.5E	13 11 1411 C.E.
12986	Sep 02 1411 C.E.	16:43:00	2236670.8052998	1411 Sep 02 16:48:03	000301	LPU	Asc.	0.3741	2.1755	1.1679	332 206	061 4.5S	108.2E	13 06 1411 C.E.	
12987	Feb 27 1412 C.E.	23:42:30	2236848.4878463	1412 Feb 27 23:47:30	000301	LNN	Asc.	-1.2453	0.6013	-0.4546	220 ---	4.0N	6.7E	15 12 1412 C.E.	
12988	Jul 23 1412 C.E.	22:51:23	2236995.4523539	1412 Jul 23 22:56:24	000300	LNN	Asc.	-1.4487	0.1711	-0.7721	109 ---	19.4S	19.0E	14 05 1412 C.E.	
12989	Aug 22 1412 C.E.	06:21:28	2237172.7649043	1412 Aug 22 06:26:28	000300	LNN	Asc.	1.0758	0.8633	-0.0955	231 ---	7.8S	95.9W	13 06 1412 C.E.	
12990	Jan 17 1413 C.E.	06:36:50	2237327.7755797	1413 Jan 17 06:41:49	000299	LNT	Dec.	1.0298	1.0194	-0.0813	287 ---	19.7N	9.5W	14 11 1413 C.E.	
12991	Jul 13 1413 C.E.	15:45:21	2237500.1564881	1413 Jul 13 15:50:19	000299	LPU	Asc.	-0.7479	1.4640	0.5070	283 139	---	21.1S	125.2E	14 05 1413 C.E.
12992	Jan 06 1414 C.E.	08:12:47	2237526.8422104	1414 Jan 06 08:17:47	000298	LTU	Dec.	0.3162	2.3098	1.2466	353 216	073 21.5N	120.4W	13 11 1414 C.E.	
12993	Jul 03 1414 C.E.	04:52:10	2237704.7028960	1414 Jul 03 04:57:04	000297	LTU	Asc.	0.0021	2.8568	1.8519	345 224	103 22.2S	72.0E	15 04 1414 C.E.	
12994	Dec 26 1414 C.E.	16:56:02	2237881.2055832	1414 Dec 26 17:01:01	000297	LTU	Dec.	-0.3890	2.1477	1.1411	324 200	055 22.4N	107.5E	13 10 1414 C.E.	
12995	Jun 22 1415 C.E.	10:58:02	2238058.9569652	1415 Jun 22 11:02:57	000296	LPU	Asc.	0.8015	1.4148	0.3603	316 139	---	22.5S	164.1W	14 04 1415 C.E.
12996	Dec 16 1415 C.E.	07:14:51	2238235.8019756	1415 Dec 16 07:19:46	000295	LNN	Asc.	-1.0358	0.9436	-0.0288	238 ---	22.4N	108.6W	13 10 1415 C.E.	
12997	May 11 1416 C.E.	21:17:19	2238383.3870249	1416 May 11 21:22:13	000295	LNN	Asc.	-1.2699	0.5573	-0.5010	218 ---	21.2S	39.4E	14 03 1416 C.E.	
12998	Jun 10 1416 C.E.	11:51:47	2238412.9942945	1416 Jun 10 11:56:42	000295	LNN	Asc.	1.5633	0.0238	-1.0438	048 ---	22.1S	178.1W	13 04 1416 C.E.	
12999	Nov 05 1416 C.E.	11:12:35	2238560.9670684	1416 Nov 05 11:17:28	000294	LPU	Dec.	1.0107	1.0049	0.0023	254 010	---	19.3N	172.0W	14 09 1416 C.E.
13000	May 01 1417 C.E.	03:00:21	2238737.6252457	1417 May 01 03:05:16	000293	LPU	Asc.	-0.4661	2.0083	0.9975	330 199	---	17.9S	46.3W	13 02 1417 C.E.
13001	Oct 25 1417 C.E.	20:10:06	2238915.3403508	1417 Oct 25 20:14:57	000293	LTU	Dec.	0.3363	2.2699	1.2124	351 214	069 15.5N	53.4E	15 08 1417 C.E.	
13002	Apr 20 1418 C.E.	15:43:19	2239092.1550770	1418 Apr 20 15:48:12	000292	LTU	Asc.	0.2988	2.2912	1.3280	318 201	078 14.1N	123.4E	13 02 1418 C.E.	
13003	Oct 14 1418 C.E.	22:04:21	2239269.4196885	1418 Oct 14 22:09:13	000292	LTU	Dec.	-0.3746	2.1880	1.1242	366 218	056 11.1N	25.2E	14 08 1418 C.E.	
13004	Apr 10 1419 C.E.	08:16:41	2239446.8449198	1419 Apr 10 08:21:32	000291	LNN	Asc.	1.0049	0.9886	0.0394	241 043	---	9.9S	124.1W	14 02 1419 C.E.
13005	Oct 03 1419 C.E.	21:45:08	2239623.4063445	1419 Oct 03 21:49:58	000290	LNN	Dec.	-1.0688	0.9374	-0.1426	274 ---	6.4N	30.7E	13 08 1419 C.E.	
13006	Feb 29 1420 C.E.	13:15:58	2239772.5027561	1420 Feb 29 13:20:47	000290	LPU	Asc.	-0.9205	1.1767	0.1617	277 090	---	3.6N	163.5E	14 13 1420 C.E.
13007	Aug 23 1420 C.E.	15:16:09	2239948.1362138	1420 Aug 23 15:20:58	000289	LPU	Dec.	0.9933	1.0300	0.0407	258 039	---	7.4S	130.5E	12 06 1420 C.E.
13008	Feb 17 1421 C.E.	19:43:31	2240126.3218874	1421 Feb 17 19:48:17	000288	LPU	Asc.	-0.2216	2.4884	1.4151	364 225	091 8.4N	67.5E	15 12 1421 C.E.	
13009	Aug 13 1421 C.E.	06:19:27	2240302.7635095	1421 Aug 13 06:24:16	000288	LTU	Dec.	0.2362	2.3995	1.4493	315 200	087 11.8S	94.4W	13 06 1421 C.E.	
13010	Feb 06 1422 C.E.	19:53:06	2240480.3208444	1422 Feb 06 19:57:53	000287	LPU	Asc.	0.4835	2.0208	0.9220	360 205	---	13.1N	66.6E	14 12 142

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse				Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse			Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar								
	Year	Month	Day	Time (UT)	Date (UT)	Year (TD)	Month	Time (UT)	Delta T (seconds)	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year				
13055	Jul	04	1441	C.E.	09:47:42	2247567.9081218	1441	Jul	04	09:52:05	000263	LNN	Dec.	1.4727	0.1679	-0.8561	119	---	---	20.6S	145.9W	14	04	1441	C.E.
13056	Aug	02	1441	C.E.	20:40:32	2247597.3614849	1441	Aug	02	20:44:55	000263	LNN	Dec.	-1.2128	0.6328	-0.3672	214	---	---	16.4S	51.2E	15	05	1441	C.E.
13057	Dec	28	1441	C.E.	00:01:39	2247744.5011471	1441	Dec	28	00:06:01	000262	LPU	Asc.	-0.9955	1.0265	0.0361	252	036	---	21.6N	1.3E	13	10	1441	C.E.
13058	Jun	23	1442	C.E.	13:34:36	2247922.0656951	1442	Jun	23	13:38:58	000262	LPU	Asc.	0.7534	1.5083	0.4435	327	154	---	22.5S	157.0E	14	04	1442	C.E.
13059	Dec	17	1442	C.E.	15:16:53	2248099.1367214	1442	Dec	17	15:21:13	000261	LPU	Asc.	-0.3170	2.2619	1.2908	313	197	073	23.1N	131.3E	14	10	1442	C.E.
13060	Jun	12	1443	C.E.	14:11:26	2248276.0912784	1443	Jun	12	14:15:47	000260	LPU	Asc.	-0.0099	2.8706	1.8097	371	235	106	23.5S	147.2E	13	04	1443	C.E.
13061	Dec	07	1443	C.E.	06:11:03	2248453.7576722	1443	Dec	07	06:15:21	000260	LPU	Asc.	0.3582	2.1994	-1.2021	322	201	064	23.7N	93.7W	14	10	1443	C.E.
13062	May	31	1444	C.E.	18:58:52	2248630.2908759	1444	May	31	19:03:11	000259	LPU	Asc.	-0.7715	1.4502	0.4347	304	145	---	23.7S	74.6E	13	03	1444	C.E.
13063	Nov	25	1444	C.E.	16:11:24	2248808.1745798	1444	Nov	25	16:15:43	000259	LNN	Asc.	1.0945	0.8762	-0.1761	255	---	---	23.4N	114.8E	15	09	1444	C.E.
13064	Apr	21	1445	C.E.	23:16:09	2248955.4695446	1445	Apr	21	23:20:27	000258	LNN	Dec.	1.0702	0.8702	-0.0819	231	---	---	13.9S	10.6E	14	02	1445	C.E.
13065	May	21	1445	C.E.	06:58:01	2248984.7902859	1445	May	21	07:02:19	000258	LNN	Dec.	-1.4706	1.1415	-0.8224	102	---	---	23.2S	105.8W	13	03	1445	C.E.
13066	Oct	16	1445	C.E.	00:22:04	2249132.5153272	1445	Oct	16	00:26:21	000257	LNN	Asc.	-1.1822	1.7376	-0.3589	252	---	---	11.1N	8.9W	14	08	1445	C.E.
13067	Apr	11	1446	C.E.	16:09:38	2249310.1733533	1446	Apr	11	16:13:54	000257	LPU	Asc.	0.3545	2.1843	1.2305	211	194	067	11.2S	117.4E	14	02	1446	C.E.
13068	Oct	05	1446	C.E.	01:01:06	2249486.5424302	1446	Oct	05	01:05:23	000256	LPU	Asc.	-0.4595	2.0482	0.9821	349	204	---	7.6S	18.5W	15	08	1446	C.E.
13069	Apr	01	1447	C.E.	06:43:03	2249664.7798918	1447	Apr	01	06:47:17	000256	LPU	Asc.	-0.3842	2.1513	1.1546	327	203	058	8.0S	100.6W	15	01	1447	C.E.
13070	Sep	24	1447	C.E.	08:18:07	2249840.8459183	1447	Sep	24	08:22:24	000255	LPU	Asc.	0.2832	2.3420	1.3349	334	211	081	4.0N	127.4W	12	07	1447	C.E.
13071	Mar	20	1448	C.E.	14:50:49	2250019.1186189	1448	Mar	20	14:55:02	000254	LNN	Dec.	-1.1709	0.7376	-0.3177	242	---	---	4.5S	138.0E	14	01	1448	C.E.
13072	Sep	12	1448	C.E.	22:15:10	2250195.4271962	1448	Sep	12	22:19:24	000254	LPU	Asc.	0.9764	1.0468	0.0856	249	047	---	0.4N	23.9E	13	07	1448	C.E.
13073	Feb	07	1449	C.E.	22:14:56	2250343.4270344	1449	Feb	07	22:19:10	000253	LNN	Dec.	0.1068	0.9499	-0.1440	278	---	---	13.0N	30.5E	14	12	1449	C.E.
13074	Aug	04	1449	C.E.	06:42:47	2250520.7797051	1449	Aug	04	06:46:59	000253	LPU	Asc.	-0.8871	1.2126	0.2476	267	099	---	15.7S	99.3W	14	05	1449	C.E.
13075	Jan	28	1450	C.E.	00:40:48	2250697.5283380	1450	Jan	28	00:45:03	000252	LPU	Asc.	0.3359	2.2688	1.2150	349	213	069	16.1N	6.3W	13	11	1450	C.E.
13076	Jul	24	1450	C.E.	18:55:52	2250875.2887933	1450	Jul	24	19:00:01	000252	LPU	Asc.	-0.1507	2.5890	1.5744	347	222	098	18.0S	77.4E	15	05	1450	C.E.
13077	Jan	17	1451	C.E.	10:15:05	2251051.9271380	1451	Jan	17	10:19:17	000251	LPU	Asc.	-0.3755	2.1687	1.1695	322	201	060	18.5N	150.5W	13	11	1451	C.E.
13078	Jul	14	1451	C.E.	00:03:12	2251229.5022221	1451	Jul	14	00:07:21	000250	LPU	Asc.	0.6357	1.7221	0.6615	339	180	---	19.8S	0.3E	14	05	1451	C.E.
13079	Jan	07	1452	C.E.	00:59:28	2251406.5412970	1452	Jan	07	01:03:38	000250	LNN	Dec.	-1.0269	0.9588	-0.0115	239	---	---	20.1N	12.5W	14	11	1452	C.E.
13080	Jun	02	1452	C.E.	10:29:54	2251553.9374291	1452	Jun	02	10:34:03	000249	LNN	Asc.	-1.4244	0.2703	-0.7807	155	---	---	24.5S	157.8W	13	03	1452	C.E.
13081	Jul	02	1452	C.E.	00:41:08	2251708.2192428	1452	Jul	02	00:45:17	000249	LNN	Asc.	1.3911	0.3391	-0.7273	175	---	---	21.0S	9.6W	14	04	1452	C.E.
13082	Nov	27	1452	C.E.	04:22:36	2251731.6823651	1452	Nov	27	04:26:45	000249	LNN	Dec.	1.0310	0.9718	-0.0392	253	---	---	23.6N	67.6W	14	09	1452	C.E.
13083	May	22	1453	C.E.	17:15:43	2251908.1924228	1453	May	22	17:19:52	000248	LPU	Asc.	-0.6066	1.7452	0.7449	316	178	---	22.6S	100.2E	13	03	1453	C.E.
13084	Nov	16	1453	C.E.	12:24:33	2252086.1010746	1453	Nov	16	12:28:38	000247	LPU	Asc.	0.3661	2.2204	1.1528	352	212	060	21.2N	170.8E	14	09	1453	C.E.
13085	Nov	12	1454	C.E.	06:50:58	2252262.7853895	1454	Nov	12	06:55:06	000247	LPU	Asc.	0.1684	2.5264	1.5714	320	206	094	20.0S	103.8W	13	03	1454	C.E.
13086	Nov	05	1454	C.E.	13:31:30	2252440.0635380	1454	Nov	05	13:35:35	000246	LPU	Asc.	-0.3301	2.3033	1.2025	370	222	070	18.0N	153.5E	13	09	1454	C.E.
13087	May	01	1455	C.E.	23:47:15	2252617.4911471	1455	May	01	23:51:21	000246	LPU	Asc.	0.8898	1.1980	0.2522	260	093	---	16.8S	2.3E	14	02	1455	C.E.
13088	Oct	25	1455	C.E.	13:09:13	2252794.0480705	1455	Oct	25	13:13:19	000245	LNT	Dec.	-1.0093	1.0474	-0.0346	285	---	---	14.1N	158.9E	13	08	1455	C.E.
13089	Mar	22	1456	C.E.	04:59:20	2252968.1078648	1456	Mar	22	05:03:24	000245	LPU	Asc.	-1.0027	1.0259	0.0106	264	024	---	5.1S	74.1W	15	01	1456	C.E.
13090	Sep	14	1456	C.E.	06:50:22	2253118.7849759	1456	Sep	14	06:54:26	000244	LNN	Dec.	1.0811	0.8688	-0.1202	239	---	---	1.1N	104.9W	13	07	1456	C.E.
13091	Mar	11	1457	C.E.	10:53:42	2253296.9539797	1457	Mar	11	10:57:44	000243	LPU	Asc.	-0.2944	2.3540	1.2825	363	222	079	0.2S	161.6W	14	01	1457	C.E.
13092	Sep	03	1457	C.E.	22:04:11	2253473.4195728	1457	Sep	03	22:08:15	000243	LPU	Asc.	0.3420	2.2070	1.2536	311	194	070	3.7S	27.8E	14	07	1457	C.E.
13093	Feb	28	1458	C.E.	11:00:44	2253650.9588427	1458	Feb	28	11:04:46	000242	LPU	Asc.	0.4229	2.1285	1.0365	364	213	031	4.9N	162.3W	13	13	1458	C.E.
13094	Aug	24	1458	C.E.	14:39:40	2253828.1108821	1458	Aug	24	14:43:41	000242	LPU	Asc.	-0.3737	2.1528	1.1914	313	194	062	8.4S	140.0E	14	06	1458	C.E.
13095	Feb	17	1459	C.E.	12:21:12	2254005.0147239	1459	Feb	17	12:25:13	000241	LNN	Asc.	1.1085	0.8552	-0.2063	257	---	---	9.8N	178.4E	13	12	1459	C.E.
13096	Jul	15	1459	C.E.	16:38:34	2254153.1934461	1459	Jul	15	16:42:35	000241	LNN	Dec.	1.5536	0.0218	-1.0068	044	---	---	18.6S	111.5E	14	05	1459	C.E.
13097	Aug	14	1459	C.E.	03:58:28	2254182.6666063	1459	Aug	14	04:02:29	000240	LNN	Dec.	-1.1531	0.7452	-0.2606	231	---	---	12.9S	58.8W	14	06	1459	C.E.
13098	Jan	08	1460	C.E.	08:47:44	2254329.8664794	1460	Jan	08	08:51:45	000240	LPU	Asc.	-0.9976	1.0212	0.0338	251	032	---	19.9N	129.2W	13	11	1460	C.E.
13099	Jul	03	1460	C.E.	20:00:20	2254507.3335683	1460	Jul	03	20:04:20	000239	LPU	Asc.	0.8412	1.3483	0.2816	316	126	---	21.2S	61.0E	14	04	1460	C.E.
13100	Dec	28	1460	C.E.	00:10:39	2254684.5073996	1460	Dec	28	00:14:38	000239	LPU	Asc.	-0.3200	2.2563	1.2853	313	196	073	22.2N	0.9W	14	10	1460	C.E.
13101	Jun	22	1461	C.E.	20:40:38	2254861.3615529	1461	Jun	22	20:44:38	000238	LPU	Asc.	0.0770	2.7466	1.6877	369	234	105	23.1S	50.5E	15	04	1461	C.E.
13102	Dec	17	1461	C.E.	14:55:55	2255039.1221649	1461	Dec	17	14:59:51	000238	LPU	Asc.	0.3560	2.2049	1.2048	323	202	065	23.8N	136.5E	15	10	1461	C.E.
13103	Jun	12	1462	C.E.	01:54:51	2255215.5797597	1462	Jun	12	01:58:49	000237	LPU	Asc.	-0.6902	1.5974	0.5860	312	164	---	24.2S	28.7W	13	04	1462	C.E.
13104	Dec	07	1462	C.E.	00:34:17	2255393.5238086	1462	Dec	07	00:38:14	000237	LNN	Dec.	1.0920	0.8826	-0.1735	257	---	---	24.4N	9.6W	15	10	1462	C.E.
13105	May	03	1463	C.E.	06:55:34	2255540.9706705	1463	May	03	06:59:29	000236	LNN	Dec.	1.1308	0.7573	-0.1913	217	---	---	16.9S	1				

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar													
	Year	Month	Day	Time (UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year									
13162	Dec	18	1488	C.E.	21:40:23	2264902.4030496	1488	Dec	18	21:43:50	000207	LNN	Dec.	1.0434	0.9525	-0.0651	253	---	---	24.3N	35.8E	15	10	1488	C.E.		
13163	Jun	13	1489	C.E.	07:25:12	2265078.8091625	1489	Jun	13	07:28:40	000207	LPU	Asc.	-0.7553	1.4681	0.4760	297	146	---	---	24.2S	111.0W	13	04	1489	C.E.	
13164	Dec	08	1489	C.E.	04:53:33	2265256.7038751	1489	Dec	08	04:56:58	000206	LPU	Dec.	0.3817	2.1956	1.1205	354	212	054	---	---	23.8N	74.0W	14	10	1489	C.E.
13165	Jun	02	1490	C.E.	21:45:44	2265433.4067557	1490	Jun	02	21:49:09	000205	LPU	Asc.	0.0243	2.7877	1.8386	321	207	100	---	---	23.1S	33.2E	14	03	1490	C.E.
13166	Nov	27	1490	C.E.	05:21:42	2265610.7234062	1490	Nov	27	05:25:07	000205	LPU	Dec.	-0.3043	2.3528	1.2476	372	224	076	---	---	22.3N	82.4W	14	09	1490	C.E.
13167	May	23	1491	C.E.	14:56:31	2265788.1225758	1491	May	23	14:59:54	000204	LPU	Asc.	0.7570	1.4411	0.4965	277	134	---	---	21.3S	135.1E	14	03	1491	C.E.	
13168	Nov	16	1491	C.E.	05:07:10	2265964.7133082	1491	Nov	16	05:10:34	000204	LPU	Dec.	-0.9741	1.1121	0.0299	291	042	---	---	19.9N	79.8W	13	09	1491	C.E.	
13169	Apr	12	1492	C.E.	20:04:15	2266113.3362795	1492	Apr	12	20:07:38	000203	LNN	Asc.	-1.1129	0.8240	-0.1920	243	---	---	---	---	13.2S	58.2E	15	02	1492	C.E.
13170	May	12	1492	C.E.	06:17:46	2266142.7623424	1492	May	12	06:21:09	000203	LNN	Asc.	1.5337	0.0347	-0.9470	052	---	---	---	---	18.8S	95.3W	14	03	1492	C.E.
13171	Oct	05	1492	C.E.	23:00:49	2266289.4589060	1492	Oct	05	23:04:13	000203	LNN	Dec.	1.1423	0.7566	-0.2327	225	---	---	---	---	9.7N	11.0E	13	08	1492	C.E.
13172	Apr	02	1493	C.E.	01:25:06	2266467.5590969	1493	Apr	02	01:28:27	000202	LPU	Asc.	-0.3963	2.1658	1.0965	358	214	049	---	---	8.7S	21.1W	14	11	1493	C.E.
13173	Sep	25	1493	C.E.	14:19:33	2266644.0969109	1493	Sep	25	14:22:55	000202	LPU	Dec.	0.4226	2.0614	1.1035	307	187	046	---	---	5.0N	142.1E	13	07	1493	C.E.
13174	Mar	22	1494	C.E.	01:33:50	2266821.5651586	1494	Mar	22	01:37:11	000201	LPU	Asc.	0.3335	2.2885	1.2047	367	222	070	---	---	3.8S	22.3W	14	01	1494	C.E.
13175	Sep	15	1494	C.E.	06:28:58	2266998.7701205	1494	Sep	15	06:32:18	000201	LPU	Dec.	-0.2805	2.3287	1.3576	320	202	081	---	---	0.1N	99.2W	14	07	1494	C.E.
13176	Mar	11	1495	C.E.	03:47:34	2267175.6580311	1495	Mar	11	03:50:54	000200	LNN	Asc.	1.0380	0.9784	-0.0709	269	---	---	---	---	1.2N	54.6W	13	01	1495	C.E.
13177	Sep	04	1495	C.E.	18:50:53	2267353.2853332	1495	Sep	04	18:54:12	000200	LNN	Dec.	-1.0490	0.9425	-0.0757	257	---	---	---	---	4.7S	76.5E	15	07	1495	C.E.
13178	Jan	30	1496	C.E.	02:08:57	2267500.5895498	1496	Jan	30	02:12:16	000199	LNN	Asc.	-1.0220	0.9912	-0.1110	246	023	---	---	---	14.2N	28.7W	13	12	1496	C.E.
13179	Jul	25	1496	C.E.	09:00:34	2267677.8753950	1496	Jul	25	09:03:53	000199	LNT	Dec.	1.0073	1.0459	-0.0255	288	---	---	---	---	16.6S	134.0W	14	05	1496	C.E.
13180	Jan	18	1497	C.E.	17:49:50	2267855.2429433	1497	Jan	18	17:53:08	000198	LPU	Asc.	-0.3330	2.2317	1.2622	312	196	070	---	---	17.9N	96.0E	14	11	1497	C.E.
13181	Jul	14	1497	C.E.	09:46:31	2268031.9073010	1497	Jul	14	09:49:49	000198	LPU	Dec.	0.2461	2.4349	1.3785	364	226	089	---	---	19.9S	145.3W	13	05	1497	C.E.
13182	Jan	08	1498	C.E.	08:22:10	2268206.8487221	1498	Jan	08	08:25:25	000197	LPU	Asc.	0.3505	2.2168	1.2131	325	203	066	---	---	21.1N	122.7W	14	11	1498	C.E.
13183	Jul	03	1498	C.E.	15:51:25	2268386.1607042	1498	Jul	03	15:54:43	000197	LPU	Dec.	-0.5280	1.8917	0.8867	325	191	---	---	---	22.5S	123.3E	15	04	1498	C.E.
13184	Dec	28	1498	C.E.	17:19:35	2268564.2219314	1498	Dec	28	17:22:51	000196	LNN	Asc.	1.0890	0.8911	-0.1707	259	---	---	---	---	23.5N	101.9E	12	10	1498	C.E.
13185	May	24	1499	C.E.	22:02:12	2268711.4181905	1499	May	24	22:05:27	000196	LNN	Dec.	1.2621	0.5138	-0.4297	183	---	---	---	---	21.0S	29.0E	14	03	1499	C.E.
13186	Jun	23	1499	C.E.	05:02:14	2268906.1314298	1499	Jun	23	05:05:29	000196	LNN	Dec.	-1.2446	0.5519	-0.4035	192	---	---	---	---	24.4S	74.9W	13	04	1499	C.E.
13187	Nov	17	1499	C.E.	23:42:33	2268888.4878823	1499	Nov	17	23:45:48	000195	LNN	Asc.	-1.2408	0.6333	-0.4695	236	---	---	---	---	20.0N	1.8E	14	09	1499	C.E.
13188	May	13	1500	C.E.	15:09:16	2269066.1314298	1500	May	13	15:12:30	000195	LPU	Dec.	0.5456	1.8328	0.8805	301	174	---	---	---	20.0S	131.8E	14	03	1500	C.E.
13189	Nov	06	1500	C.E.	00:45:14	2269242.5134065	1500	Nov	06	00:48:29	000194	LPU	Asc.	-0.5272	1.9242	0.8580	341	194	---	---	---	18.2N	14.8W	13	09	1500	C.E.
13190	May	03	1501	C.E.	05:10:06	2269420.7534486	1501	May	03	05:13:18	000194	LPU	Dec.	-0.2065	2.4787	1.4796	338	217	092	---	---	18.4S	78.7W	15	02	1501	C.E.
13191	Oct	26	1501	C.E.	08:51:39	2269596.8692062	1501	Oct	26	08:54:54	000193	LPU	Asc.	0.2000	2.4944	1.4878	334	214	091	---	---	15.7N	137.0W	13	08	1501	C.E.
13192	Apr	22	1502	C.E.	12:19:25	2269775.0134793	1502	Apr	22	12:22:37	000193	LNT	Dec.	-1.0034	1.0445	-0.0101	281	---	---	---	---	16.0S	173.9E	14	02	1502	C.E.
13193	Oct	15	1502	C.E.	23:07:21	2269951.4634416	1502	Oct	15	23:10:34	000192	LPU	Asc.	0.8760	1.2335	0.2676	264	101	---	---	---	12.9N	8.9E	13	08	1502	C.E.
13194	Mar	12	1503	C.E.	20:48:21	2270099.3669108	1503	Mar	12	20:51:34	000192	LNN	Dec.	1.1651	0.7605	-0.3194	252	---	---	---	---	0.5N	50.3E	14	01	1503	C.E.
13195	Sep	06	1503	C.E.	05:45:09	2270276.7396911	1503	Sep	06	05:48:20	000191	LNN	Asc.	-1.0619	0.8995	-0.0807	241	---	---	---	---	4.1S	87.0W	14	07	1503	C.E.
13196	Mar	01	1504	C.E.	00:41:30	2270453.5288192	1504	Mar	01	00:44:43	000191	LPU	Dec.	0.4056	2.1320	1.0958	340	206	048	---	---	4.3N	7.5W	13	13	1504	C.E.
13197	Aug	25	1504	C.E.	16:27:24	2270631.1856925	1504	Aug	25	16:30:33	000191	LPU	Asc.	-0.3517	2.2289	1.1969	345	212	067	---	---	7.6S	113.0E	15	06	1504	C.E.
13198	Jan	18	1505	C.E.	11:41:47	2270807.9873513	1505	Jan	18	11:44:59	000190	LPU	Dec.	-0.3241	2.2559	1.2708	321	202	072	---	---	7.8N	172.3W	13	12	1505	C.E.
13199	Aug	14	1505	C.E.	20:02:44	2270985.3352258	1505	Aug	14	20:05:53	000190	LPU	Asc.	0.4064	2.1487	1.0767	361	214	045	---	---	10.9S	59.6E	14	06	1505	C.E.
13200	Feb	08	1506	C.E.	03:10:52	2271162.6325460	1506	Feb	08	03:14:01	000189	LPU	Dec.	-0.9932	1.0176	0.0533	245	028	---	---	---	11.1N	44.4W	14	12	1506	C.E.
13201	Aug	03	1506	C.E.	20:21:14	2271339.3480837	1506	Aug	03	20:24:23	000189	LNN	Asc.	1.1456	0.7898	-0.2772	255	---	---	---	---	14.0S	55.3E	14	06	1506	C.E.
13202	Dec	30	1506	C.E.	06:19:12	2271487.7633371	1506	Dec	30	06:22:20	000188	LNN	Dec.	1.0489	0.9435	-0.0765	253	---	---	---	---	23.3N	92.6W	14	11	1506	C.E.
13203	Jun	24	1507	C.E.	14:30:46	2271664.1047005	1507	Jun	24	14:33:55	000188	LPU	Asc.	-0.8305	1.3284	0.3397	286	125	---	---	---	23.8S	143.2E	13	04	1507	C.E.
13204	Dec	19	1507	C.E.	13:09:49	2271842.0484789	1507	Dec	19	13:12:54	000187	LPU	Dec.	0.3871	2.1870	1.1091	355	212	052	---	---	23.7N	163.3E	14	10	1507	C.E.
13205	Jun	13	1508	C.E.	05:10:49	2272018.7158500	1																				

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith	Hebrew Date on the Creation Calendar		
		Date (UT)	Date (UT)								Pen.	Par.		Lat.	Lon.	Day
13269	Jun 04 1536 C.E.	06:03:47	2282236.7526300	1536 Jun 04 06:06:28	000161	LPU	Dec.	0.6919	1.5652	0.6112	289	151	---	22.6S	91.1W	14 03 1536 C.E.
13270	Nov 27 1536 C.E.	17:11:15	2282423.2161506	1536 Nov 27 17:13:58	000161	LPU	Asc.	-0.5456	1.8891	0.8252	338	190	---	22.2N	100.4E	13 09 1536 C.E.
13271	May 24 1537 C.E.	19:30:28	2282591.3128205	1537 May 24 19:33:06	000161	LTU	Dec.	-0.0608	2.7478	1.7451	343	223	102	22.4S	66.6E	15 03 1537 C.E.
13272	Nov 17 1537 C.E.	01:53:06	2282767.5785447	1537 Nov 17 01:55:48	000160	LTU	Asc.	0.1739	2.5416	1.5364	333	214	093	21.3N	31.3W	13 09 1537 C.E.
13273	May 14 1538 C.E.	01:55:14	2282945.5800233	1538 May 14 01:57:54	000160	LPU	Dec.	-0.8594	1.3090	0.2536	308	118	---	21.4S	30.1W	15 03 1538 C.E.
13274	Nov 06 1538 C.E.	16:19:18	2283122.1800739	1538 Nov 06 16:21:57	000159	LPU	Asc.	0.8392	1.3024	0.3336	269	114	---	19.5N	111.2E	14 09 1538 C.E.
13275	Apr 03 1539 C.E.	11:10:28	2283269.9656037	1539 Apr 03 11:13:08	000159	LNN	Dec.	-1.2643	0.5734	-0.4962	221	---	---	17.5S	166.9W	13 01 1539 C.E.
13276	Sep 27 1539 C.E.	21:39:12	2283447.4022250	1539 Sep 27 21:41:51	000159	LNN	Asc.	-1.1484	0.7466	-0.2449	224	---	---	4.4N	32.7E	15 07 1539 C.E.
13277	Oct 27 1539 C.E.	08:08:15	2283476.8390628	1539 Oct 27 08:10:53	000158	LNN	Asc.	-1.5126	0.0709	-0.9059	072	---	---	17.2N	126.7W	14 08 1539 C.E.
13278	Mar 22 1540 C.E.	16:08:25	2283624.1725104	1540 Mar 22 16:11:04	000158	LPU	Dec.	0.4837	1.9823	0.9589	331	196	---	4.2S	119.1E	14 01 1540 C.E.
13279	Sep 16 1540 C.E.	07:16:13	2283801.8029300	1540 Sep 16 07:18:49	000158	LPU	Asc.	-0.4583	2.0396	0.9950	342	202	---	0.8N	111.0W	14 07 1540 C.E.
13280	Mar 12 1541 C.E.	04:08:37	2283978.7265449	1541 Mar 12 04:11:16	000157	LTU	Dec.	-0.2612	2.3661	1.3911	321	204	083	0.7S	60.4W	13 01 1541 C.E.
13281	Sep 05 1541 C.E.	09:52:04	2284155.9111624	1541 Sep 05 09:54:41	000157	LTU	Asc.	0.2784	2.3879	1.3072	369	226	083	3.0S	149.4W	14 07 1541 C.E.
13282	Mar 01 1542 C.E.	20:07:19	2284333.3384116	1542 Mar 01 20:09:55	000156	LPU	Dec.	-0.9456	1.1026	0.1431	252	068	---	2.9N	60.3E	14 13 1542 C.E.
13283	Aug 25 1542 C.E.	10:02:11	2284509.9181870	1542 Aug 25 10:04:47	000156	LNT	Asc.	1.0046	1.0495	-0.0193	286	---	---	6.7S	151.3W	13 06 1542 C.E.
13284	Jan 20 1543 C.E.	23:25:04	2284658.4757419	1543 Jan 20 23:27:40	000156	LNN	Dec.	-1.0684	0.9094	-0.1138	250	---	---	18.7N	12.7E	15 11 1543 C.E.
13285	Jul 16 1543 C.E.	04:52:23	2284834.7030391	1543 Jul 16 04:54:58	000155	LPU	Asc.	-0.9741	1.0624	0.0787	261	056	---	20.7S	71.4W	13 05 1543 C.E.
13286	Jan 10 1544 C.E.	05:35:11	2285012.7327678	1544 Jan 10 05:37:44	000155	LTU	Dec.	0.4024	2.1607	1.0795	356	211	045	20.7N	80.7W	14 11 1544 C.E.
13287	Oct 04 1544 C.E.	20:04:18	2285189.3363195	1544 Oct 04 20:06:53	000154	LPU	Asc.	-0.1981	2.4667	1.5218	316	202	091	21.9S	60.2E	14 04 1544 C.E.
13288	Dec 29 1544 C.E.	05:26:31	2285366.7267446	1544 Dec 29 05:29:05	000154	LTU	Dec.	-0.2809	2.3961	1.2901	373	226	081	22.1N	79.8W	14 10 1544 C.E.
13289	Jun 24 1545 C.E.	13:18:23	2285544.0544300	1545 Jun 24 13:20:56	000154	LPU	Asc.	0.5409	1.8389	0.8916	300	174	---	22.4S	161.1E	14 04 1545 C.E.
13290	Dec 18 1545 C.E.	05:42:23	2285720.7377674	1545 Dec 18 05:44:56	000153	LPU	Dec.	-0.9470	1.1596	0.0819	293	068	---	22.5N	85.1W	13 10 1545 C.E.
13291	May 15 1546 C.E.	17:38:14	2285898.6631975	1546 May 15 17:40:47	000153	LNN	Asc.	-1.3223	0.4417	-0.5778	187	---	---	22.2S	94.3E	15 03 1546 C.E.
13292	Jun 14 1546 C.E.	03:55:00	2285986.6631975	1546 Jun 14 03:57:33	000153	LNN	Asc.	1.3329	0.4067	-0.5821	174	---	---	22.2S	58.6W	15 04 1546 C.E.
13293	Nov 08 1546 C.E.	00:18:55	2286164.5131342	1546 Nov 08 00:21:28	000153	LNN	Dec.	-1.1890	0.6711	-0.3184	212	---	---	20.3N	8.5W	13 09 1546 C.E.
13294	May 04 1547 C.E.	22:01:55	2286223.4179934	1547 May 04 22:04:27	000152	LPU	Asc.	-0.6022	1.7868	0.7200	344	187	---	19.1S	28.3E	15 02 1547 C.E.
13295	Oct 28 1547 C.E.	15:41:03	2286400.1535070	1547 Oct 28 15:43:35	000152	LPU	Dec.	0.4959	1.9305	0.9653	302	180	---	16.7N	120.7E	14 08 1547 C.E.
13296	Apr 22 1548 C.E.	22:22:15	2286577.4321214	1548 Apr 22 22:24:47	000151	LTU	Asc.	0.1463	2.6255	1.5544	371	232	100	15.4S	23.6E	14 02 1548 C.E.
13297	Oct 17 1548 C.E.	07:05:54	2286754.7957606	1548 Oct 17 07:08:23	000151	LTU	Dec.	-0.1886	2.5050	1.5188	326	210	091	12.6N	110.4W	14 08 1548 C.E.
13298	Apr 12 1549 C.E.	02:04:20	2286931.5863401	1549 Apr 12 02:06:51	000151	LPU	Asc.	0.8818	1.2555	0.2248	292	108	---	11.2S	31.7W	13 02 1549 C.E.
13299	Oct 06 1549 C.E.	17:59:51	2287109.2498984	1549 Oct 06 18:02:20	000150	LPU	Dec.	-0.9388	1.1543	0.1169	282	079	---	8.1N	86.7E	15 08 1549 C.E.
13300	Mar 03 1550 C.E.	03:29:00	2287256.6451376	1550 Mar 03 03:31:30	000150	LNN	Asc.	-1.0706	0.8773	-0.0902	233	---	---	2.2N	50.7W	13 13 1550 C.E.
13301	Apr 01 1550 C.E.	12:52:05	2287286.0361739	1550 Apr 01 12:54:35	000150	LNN	Asc.	1.5506	0.0022	-0.9766	013	---	---	6.7S	163.7E	13 01 1550 C.E.
13302	Aug 27 1550 C.E.	05:08:54	2287433.7145168	1550 Aug 27 05:11:23	000149	LNN	Dec.	-1.2210	0.6584	-0.4222	239	---	---	5.7S	78.0W	14 06 1550 C.E.
13303	Feb 20 1551 C.E.	19:40:38	2287611.3198853	1551 Feb 20 19:43:07	000149	LPU	Asc.	-0.3827	2.1383	1.1730	310	192	059	6.9N	67.9E	14 12 1551 C.E.
13304	Aug 16 1551 C.E.	06:07:17	2287787.7550636	1551 Aug 16 06:09:48	000149	LPU	Dec.	0.4688	2.0258	0.9704	349	205	---	10.4S	91.6W	13 06 1551 C.E.
13305	Feb 10 1552 C.E.	09:56:13	2287965.1040349	1552 Feb 10 09:58:39	000148	LPU	Asc.	0.3184	2.2769	1.2708	330	207	073	11.5N	145.3W	14 12 1552 C.E.
13306	Aug 04 1552 C.E.	13:20:05	2288142.0566120	1552 Aug 04 13:22:35	000148	LPU	Dec.	-0.3055	2.2971	1.2978	334	211	077	14.7S	161.0E	12 06 1552 C.E.
13307	Jan 29 1553 C.E.	18:01:18	2288320.2509047	1553 Jan 29 18:03:46	000148	LNN	Asc.	-1.0650	0.9296	-0.1360	266	---	---	15.9N	93.7E	15 12 1553 C.E.
13308	Jun 25 1553 C.E.	20:26:37	2288467.3518202	1553 Jun 25 20:29:04	000147	LNN	Dec.	-1.4726	0.1259	-0.8143	094	---	---	21.3S	54.2E	14 04 1553 C.E.
13309	Jul 25 1553 C.E.	03:21:40	2288496.6400510	1553 Jul 25 03:24:08	000147	LNN	Dec.	-1.0253	0.9528	0.0003	240	002	---	18.5S	48.9W	13 05 1553 C.E.
13310	Dec 19 1553 C.E.	23:46:48	2288644.4908278	1553 Dec 19 23:49:15	000147	LNN	Asc.	-1.2643	0.5902	-0.5127	228	---	---	22.1N	4.2E	14 10 1553 C.E.
13311	Jun 15 1554 C.E.	13:25:28	2288822.0593538	1554 Jun 15 13:27:54	000146	LPU	Dec.	0.7687	1.4252	0.4693	281	134	---	22.7S	159.0E	14 04 1554 C.E.
13312	Dec 09 1554 C.E.	01:31:56	2288998.5638404	1554 Dec 09 01:34:23	000146	LPU	Dec.	-0.5495	1.8810	0.8190	336	189	---	22.9N	23.5W	13 10 1554 C.E.
13313	Jun 05 1555 C.E.	02:32:22	2289176.6080993	1555 Jun 05 02:34:46	000146	LTU	Dec.	0.0172	2.8292	1.8239	345	224	103	23.3S	38.3W	15 03 1555 C.E.
13314	Nov 28 1555 C.E.	10:32:21	2289352.9391325	1555 Nov 28 10:34:48	000145	LPU	Asc.	0.1671	2.5533	1.5495	332	214	093	22.9N	160.0W	13 09 1555 C.E.
13315	May 24 1556 C.E.	08:33:35	2289530.8566522	1556 May 24 08:35:59	000145	LPU	Dec.	-0.7803	1.4547	0.3985	320	145	---	23.0S	129.3W	14 03 1556 C.E.
13316	Nov 17 1556 C.E.	01:04:24	2289707.5447213	1556 Nov 17 01:06:49	000145	LPU	Asc.	0.8287	1.3223	0.3524	270	117	---	22.0N	19.3W	13 09 1556 C.E.
13317	Apr 13 1557 C.E.	18:11:42	2289855.25811298	1557 Apr 13 18:14:07	000144	LNN	Dec.	-1.3222	0.4646	-0.5999	201	---	---	11.5S	87.1E	14 02 1557 C.E.
13318	May 13 1557 C.E.	09:20:34	2289884.8892846	1557 May 13 09:22:58	000144	LNN	Dec.	-1.5370	0.0734	-0.9971	084	---	---	21.9S	141.6W	13 03 1557 C.E.
13319	Oct 08 1557 C.E.	05:45:29	2290032.7399221	1557 Oct 08 05:47:53	000144	LNN	Asc.	-1.1833	0.6855	-0.3118	217	---	---	8.5N	89.5W	14 08 1557 C.E.
13320	Nov 06 1557 C.E.	16:42:31	2290062.1961867	1557 Nov 06 16:44:55	000144	LNN	Asc.	1.5003	0.0955	-0.8852	083	---	---	20.3N	105.2E	14 09 1557 C.E.
13321	Apr 02 1558 C.E.	23:42:42	2290209.4879859	1558 Apr 02 23:45:07	000144	LPU	Dec.	0.5316	1.8913	0.8743	326	190	---	8.3S	4.7E	13 01 1558 C.E.
13322	Sep 27 1558 C.E.	14:50:40	2290387.1185159	1558 Sep 27 14:53:01	000143	LPU	Asc.	-0.5022	1.9623	0.9114	340	197	---	5.0N	134.5E	14 07 1558 C.E.
13323	Mar 23 1559 C.E.	12:10:51	2290564.057323	1559 Mar 23 12:13:15	000143	LTU	Dec.	-0.2197	2.4396	1.4698						

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Year	Month	Day	Time	Year	Month	Day	Time	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
13376	Jan	08	1582	C.E.	22:12:02	2298891	4250285	1582	Jan	08	22:14:11	000128	LPU	Dec.	-0.9304	1.1867	0.1156	294	080	---	19.7N	29.6E	13	11	1582	C.E.
13377	Jun	06	1582	C.E.	07:27:22	2299039	8106666	1582	Jun	06	07:29:29	000127	LNN	Asc.	-1.4829	0.1492	-0.8749	113	---	---	24.8S	111.9W	15	03	1582	C.E.
13378	Jul	05	1582	C.E.	18:05:49	2299069	2540339	1582	Jul	05	18:07:55	000127	LNN	Asc.	-1.1903	0.6722	-0.3243	220	---	---	20.5S	89.5E	15	04	1582	C.E.
13379	Dec	09	1582	C.E.	17:42:57	2299216	2381621	1582	Dec	09	17:45:05	000127	LNN	Dec.	-1.1977	0.6545	-0.3336	209	---	---	24.1N	92.6E	13	09	1582	C.E.
13380	Jan	08	1583	C.E.	05:52:53	2299245	7450223	1583	Jan	08	05:54:59	000127	LNN	Dec.	-1.5514	0.0185	-0.9955	038	---	---	20.9N	86.7W	13	10	1583	C.E.
13381	Jun	05	1583	C.E.	11:10:11	2299393	9654091	1583	Jun	05	11:12:18	000127	LPU	Asc.	-0.7655	1.4869	0.4206	326	150	---	23.2S	168.2W	14	03	1583	C.E.
13382	Nov	29	1583	C.E.	09:06:43	2299570	8796654	1583	Nov	29	09:08:49	000126	LPU	Dec.	-0.5190	1.8902	0.9210	301	177	---	22.0N	139.5W	13	09	1583	C.E.
13383	May	24	1584	C.E.	11:42:59	2299747	9881869	1584	May	24	11:45:07	000126	LTU	Asc.	-0.0065	2.8781	1.8147	371	234	106	20.8S	176.7W	13	03	1584	C.E.
13384	Nov	18	1584	C.E.	00:02:17	2299925	5015893	1584	Nov	18	00:04:21	000126	LPU	Dec.	-0.1567	2.5683	1.5726	329	213	094	19.1N	4.1W	14	09	1584	C.E.
13385	Nov	13	1585	C.E.	16:24:57	2300102	1839920	1585	Nov	13	16:27:04	000126	LPU	Asc.	-0.7478	1.4955	0.4765	307	151	---	17.8S	112.8E	13	02	1585	C.E.
13386	Nov	07	1585	C.E.	09:59:38	2300279	9164173	1585	Nov	07	10:01:43	000125	LPU	Dec.	-0.8965	1.2379	0.1886	292	100	---	15.5N	153.7W	14	08	1585	C.E.
13387	Apr	03	1586	C.E.	19:46:59	2300427	3242958	1586	Apr	03	19:49:04	000125	LNN	Asc.	-1.1405	0.7447	-0.2142	216	---	---	6.5S	63.7E	14	01	1586	C.E.
13388	May	03	1586	C.E.	04:14:27	2300456	6767061	1586	May	03	04:16:32	000125	LNN	Asc.	-1.4373	0.2049	-0.7635	122	---	---	14.1S	64.2W	13	02	1586	C.E.
13389	Sep	27	1586	C.E.	19:12:23	2300604	3002668	1586	Sep	27	19:14:28	000125	LNN	Dec.	-1.3306	0.4606	-0.6265	204	---	---	2.8N	69.3E	14	07	1586	C.E.
13390	Mar	24	1587	C.E.	12:17:39	2300604	1022529	1587	Mar	24	12:19:43	000125	LPU	Asc.	-0.4456	2.0213	1.0593	307	186	036	1.7S	177.1E	14	01	1587	C.E.
13391	Sep	16	1587	C.E.	20:22:58	2300958	3492805	1587	Sep	16	20:25:03	000124	LPU	Dec.	-0.5857	1.8116	0.7557	337	187	---	2.2S	52.8E	13	07	1587	C.E.
13392	Sep	13	1588	C.E.	02:21:27	2301136	5982346	1588	Mar	13	02:23:29	000124	LPU	Asc.	-0.2699	2.3661	1.3597	334	212	082	3.2N	32.8W	15	13	1588	C.E.
13393	Sep	05	1588	C.E.	04:13:51	2301312	6762899	1588	Sep	05	04:15:58	000124	LTU	Dec.	-0.1819	2.5231	1.5254	336	216	094	7.0S	63.8W	13	06	1588	C.E.
13394	Mar	02	1589	C.E.	09:54:42	2301490	9129896	1589	Mar	02	09:56:46	000124	LNN	Asc.	-1.0319	0.9978	-0.0679	275	---	---	8.1N	145.2W	14	12	1589	C.E.
13395	Aug	25	1589	C.E.	18:38:18	2301667	2765972	1589	Aug	25	18:40:21	000123	LPU	Dec.	-0.8969	1.1887	0.2354	261	092	---	11.6S	81.0E	14	06	1589	C.E.
13396	Jun	20	1590	C.E.	15:51:15	2301815	1605867	1590	Jun	20	15:53:17	000123	LNN	Asc.	-1.2783	0.5625	-0.5366	223	---	---	19.0N	125.1E	14	11	1590	C.E.
13397	Jul	17	1590	C.E.	04:07:49	2301992	6720911	1590	Jul	17	04:09:51	000123	LPU	Dec.	-0.9205	1.1495	0.1881	262	083	---	20.4S	60.7W	14	05	1590	C.E.
13398	Jan	09	1591	C.E.	18:17:15	2302169	2619803	1591	Jan	09	18:19:19	000123	LPU	Asc.	-0.5551	1.8676	0.8118	333	188	---	21.6N	87.7E	13	11	1591	C.E.
13399	Jul	06	1591	C.E.	16:27:24	2302347	1856918	1591	Jul	06	16:29:23	000122	LTU	Dec.	-0.1776	2.5383	1.5262	346	222	096	22.6S	114.1E	14	04	1591	C.E.
13400	Dec	30	1591	C.E.	03:58:29	2302523	1656178	1591	Dec	30	04:00:33	000122	LTU	Asc.	-0.1588	2.5665	1.5668	330	213	094	23.4N	58.8W	13	10	1591	C.E.
13401	Jun	24	1592	C.E.	21:38:07	2302701	4014646	1592	Jun	24	21:40:07	000122	LPU	Dec.	-0.6136	1.7621	0.7029	341	185	---	24.0S	35.8E	15	04	1592	C.E.
13402	Dec	18	1592	C.E.	18:44:53	2302787	2811643	1592	Dec	18	18:46:55	000122	LPU	Asc.	-0.8160	1.3461	0.3751	272	121	---	24.3N	78.1E	14	10	1592	C.E.
13403	May	15	1593	C.E.	07:53:10	2303025	8285890	1593	May	15	07:55:11	000121	LNN	Dec.	-1.4547	0.2164	-0.8382	139	---	---	17.6S	118.9W	13	02	1593	C.E.
13404	Jun	13	1593	C.E.	22:17:46	2303055	4290059	1593	Jun	13	22:19:47	000121	LNN	Dec.	-1.3704	0.3769	-0.6891	184	---	---	24.5S	25.1E	14	03	1593	C.E.
13405	Nov	08	1593	C.E.	22:19:59	2303203	4305491	1593	Nov	08	22:22:00	000121	LNN	Asc.	-1.2328	0.6001	-0.4080	207	---	---	15.7N	21.5E	15	08	1593	C.E.
13406	Dec	08	1593	C.E.	10:06:24	2303232	9211131	1593	Dec	08	10:08:25	000121	LNN	Asc.	-1.4899	0.1180	-0.8696	093	---	---	24.3N	153.7W	14	09	1593	C.E.
13407	May	04	1594	C.E.	14:30:38	2303380	1046087	1594	May	04	14:32:40	000121	LPU	Dec.	-0.6461	1.6750	0.6702	312	177	---	15.4S	141.7E	13	02	1594	C.E.
13408	Oct	29	1594	C.E.	06:21:39	2303522	9050362	1594	Oct	29	06:23:39	000121	LPU	Asc.	-0.5686	1.8464	0.7836	338	188	---	12.9N	99.2W	14	08	1594	C.E.
13409	Apr	24	1595	C.E.	03:54:40	2303734	6629654	1595	Apr	24	03:56:42	000120	LTU	Dec.	-0.1185	2.6206	1.6602	322	208	097	12.8S	59.2W	13	02	1595	C.E.
13410	Oct	18	1595	C.E.	07:38:03	2303911	8180887	1595	Oct	18	07:40:03	000120	LPU	Asc.	-0.1391	2.6498	1.5568	376	233	100	9.6N	118.2W	14	08	1595	C.E.
13411	Apr	12	1596	C.E.	20:33:26	2304089	3655550	1596	Apr	12	20:35:26	000120	LPU	Dec.	-0.8279	1.3151	0.3624	269	116	---	9.7S	51.4E	14	01	1596	C.E.
13412	Oct	06	1596	C.E.	07:43:06	2304265	8215989	1596	Oct	06	07:45:07	000120	LPU	Asc.	-0.8436	1.3466	0.2744	312	123	---	5.9N	119.1W	13	07	1596	C.E.
13413	Mar	04	1597	C.E.	00:14:50	2304414	5103053	1597	Mar	04	00:16:50	000120	LNN	Dec.	-1.1328	0.7923	-0.2330	239	---	---	7.5N	0.1W	12	12	1597	C.E.
13414	Aug	27	1597	C.E.	03:06:43	2304590	6266610	1597	Aug	27	03:08:42	000119	LNN	Asc.	-1.1603	0.7191	-0.2611	220	---	---	11.2S	45.9W	13	06	1597	C.E.
13415	Sep	25	1597	C.E.	13:38:47	2304620	0685950	1597	Sep	25	13:40:47	000119	LNN	Asc.	-1.5116	0.0923	-0.9233	087	---	---	2.2N	152.5E	12	07	1597	C.E.
13416	Feb	21	1598	C.E.	05:33:25	2304768	7315396	1598	Feb	21	05:35:23	000119	LPU	Dec.	-0.4537	2.0667	0.9852	355	207	---	11.0N	79.6W	14	12	1598	C.E.
13417	Aug	16	1598	C.E.	18:45:56	2304945	2818966	1598	Aug	16	18:47:55	000119	LTU	Asc.	-0.4039	2.0899	1.1434	307	188	054	14.1S	79.6E	14	06	1598	C.E.
13418	Feb	10	1599	C.E.	05:12:32	2305122	7170427	1599	Feb	10	05:14:32	000119	LPU	Dec.	-0.2410	2.4662	1.3663	374	228	088	14.3N	74.5W	14	12	1599	C.E.
13419	Aug	06	1599	C.E.	11:40:05	2305299	9861661	1599	Aug	06	11:42:02	000118	LTU	Asc.	-0.3273	2.2353	1.2794	315	197	073	16.6S	173.9W	14	05	1599	C.E.
13420	Jan	30	1600	C.E.	06:23:27	2305476	7662817	1600	Jan	30	06:25:25	000118	LPU	Dec.	-0.9183	1.2667	0.1401	294	088	---	17.0N	92.7W	13	11	1600	C.E.
13421	Jul	26	1600	C.E.	01:11:18	2305654	5495143	1600	Jul	26	01:13:14	000117	LNN	Asc.	-1.1200	0.8035	-0.1976	238	---	---	18.5S	16.8W	15	05	1600	C.E.
13422	Dec	20	1600	C.E.	02:29:54	2305801	6040952	1600	Dec	20	02:31:51	000117	LNN	Dec.	-1.1989	0.6516	-0.3352	208	---	---	24.7N	37.7W	13	10	1600	C.E.
13423	Jan	18	1601	C.E.	14:30:32	2305831	1044205	1601	Jan	18	14:32:19	000117	LNN	Dec.	-1.5425	0.0329	-0.9773	051	---	---	19.0N	144.8E	13	11	1601	C.E.
13424	Jun	15	1601	C.E.	17:37:34	2305979	2344241	1601	Jun	15	17:39:31	000117	LPU	Asc.	-0.8517	1.3289	0.2624	314	122	---	24.1S	95.5E	15	04	1601	C.E.
13425	Dec	09	1601	C.E.	17:56:34	2306156	2476123	1601	Dec	09	17:58:29	000116	LPU	Dec.	-0.5249	1.8802										

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Lunar Eclipse Number	Calendar Date and Time (UTC) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar			
										Pen.	Par.	Lat.	Lon.	Day Month Year	Day Month Year		
13483	Sep 16 1625 C.E.	10:22:47	2314837.9324928		1625	Sep 16 10:24:13	0.000086	LPU	Dec.	-0.7904	1.3856	0.4296	275	127	---	3.3S 156.8W	13 07 1625 C.E.
13484	Feb 11 1626 C.E.	07:42:27	2314985.8211442		1626	Feb 11 07:43:53	0.000085	LNN	Asc.	-1.3035	0.5129	-0.5793	213	---	---	12.8N 112.1W	13 12 1626 C.E.
13485	Aug 07 1626 C.E.	18:54:55	2315163.2881401		1626	Aug 07 18:56:20	0.000085	LNN	Asc.	1.0654	0.8875	-0.0816	238	---	---	15.3S 77.3E	15 05 1626 C.E.
13486	Sep 06 1626 C.E.	03:04:31	2315192.6281365		1626	Sep 06 03:05:56	0.000085	LNN	Asc.	-1.4897	0.1028	-0.8540	086	---	---	8.0S 46.2W	14 06 1626 C.E.
13487	Jan 31 1627 C.E.	10:57:51	2315339.9568382		1627	Jan 31 10:59:16	0.000084	LPU	Asc.	-0.5675	1.8406	0.7934	329	185	---	16.9N 161.0W	13 11 1627 C.E.
13488	Jul 28 1627 C.E.	06:20:14	2315517.7640477		1627	Jul 28 06:21:35	0.000083	LTU	Asc.	0.3356	2.2528	1.2319	343	214	071	18.8S 93.7W	14 05 1627 C.E.
13489	Jan 20 1628 C.E.	21:26:00	2315694.3930545		1628	Jan 20 21:27:25	0.000083	LTU	Asc.	0.1499	2.5798	1.5861	328	212	094	20.2N 41.5E	13 11 1628 C.E.
13490	Jul 16 1628 C.E.	10:35:32	2315871.9413410		1628	Jul 16 10:36:53	0.000082	LTU	Asc.	-0.4424	2.0783	1.0147	357	211	020	21.7S 157.5W	14 05 1628 C.E.
13491	Jan 09 1629 C.E.	12:31:23	2316049.0217975		1629	Jan 09 12:32:44	0.000081	LPU	Asc.	0.8093	1.3581	0.3877	272	123	---	22.9N 174.3E	13 11 1629 C.E.
13492	Jul 05 1629 C.E.	11:10:14	2316225.9654455		1629	Jul 05 11:11:35	0.000080	LNN	Dec.	-1.1969	0.6937	-0.3694	242	---	---	23.9S 166.6W	13 04 1629 C.E.
13493	Nov 30 1629 C.E.	15:16:10	2316374.1362267		1629	Nov 30 15:17:30	0.000080	LNN	Asc.	-1.2624	0.5506	-0.4672	200	---	---	20.6N 128.7E	15 09 1629 C.E.
13494	Dec 30 1629 C.E.	03:39:08	2316403.6521798		1629	Dec 30 03:40:28	0.000080	LNN	Asc.	1.4893	0.1217	-0.8710	095	---	---	24.7N 54.0W	14 10 1629 C.E.
13495	May 26 1630 C.E.	05:00:00	2316550.7083355		1630	May 26 05:01:20	0.000079	LPU	Dec.	0.7788	1.4261	0.4321	294	141	---	20.4S 75.7W	13 03 1630 C.E.
13496	Nov 19 1630 C.E.	22:19:35	2316728.4302713		1630	Nov 19 22:20:52	0.000078	LPU	Asc.	-0.6099	1.7759	0.7026	337	181	---	19.1N 21.8E	15 09 1630 C.E.
13497	May 15 1631 C.E.	19:14:21	2316905.3016311		1631	May 15 19:15:40	0.000077	LTU	Asc.	0.0051	2.8247	1.8722	321	208	100	18.9S 70.3E	14 02 1631 C.E.
13498	Nov 08 1631 C.E.	22:50:18	2317082.4515990		1631	Nov 08 22:51:35	0.000077	LTU	Asc.	0.0806	2.7605	1.6608	378	235	103	16.8N 13.4E	14 08 1631 C.E.
13499	May 04 1632 C.E.	12:13:46	2317260.0095602		1632	May 04 12:15:01	0.000076	LPU	Dec.	-0.7196	1.5122	0.5626	282	143	---	16.9S 175.3E	14 02 1632 C.E.
13500	Oct 27 1632 C.E.	22:59:14	2317436.4577970		1632	Oct 27 23:00:30	0.000075	LPU	Asc.	0.7719	1.4790	0.4052	321	145	---	13.9N 10.9E	13 08 1632 C.E.
13501	Mar 25 1633 C.E.	16:04:12	2317585.1695813		1633	Mar 25 16:05:26	0.000075	LNN	Dec.	1.2080	0.6545	-0.3711	221	---	---	1.1S 121.0E	15 01 1633 C.E.
13502	Apr 24 1633 C.E.	03:16:26	2317614.6364099		1633	Apr 24 03:17:41	0.000075	LNN	Dec.	-1.4852	0.1272	-0.8614	099	---	---	14.2S 50.3W	15 02 1633 C.E.
13503	Sep 17 1633 C.E.	18:33:37	2317761.2733485		1633	Sep 17 18:34:52	0.000074	LNN	Asc.	-1.2575	0.5406	-0.4394	193	---	---	3.1S 80.7E	13 07 1633 C.E.
13504	Oct 17 1633 C.E.	05:28:00	2317790.3727790		1633	Oct 17 05:29:14	0.000074	LNN	Asc.	1.4306	0.2408	-0.7745	137	---	---	10.6N 86.3W	12 08 1633 C.E.
13505	Jan 14 1634 C.E.	20:51:46	2317939.6299799		1634	Jan 14 20:52:58	0.000073	LPU	Dec.	0.5184	1.9470	0.8676	351	199	---	2.7N 49.6E	15 13 1634 C.E.
13506	Sep 07 1634 C.E.	10:20:36	2318115.9309665		1634	Sep 07 10:21:48	0.000072	LPU	Asc.	-0.5195	1.8796	0.9295	299	176	---	6.5S 155.5W	13 06 1634 C.E.
13507	Mar 03 1635 C.E.	20:33:35	2318293.3566590		1635	Mar 03 20:34:48	0.000072	LTU	Asc.	-0.1890	2.5580	1.4654	374	231	095	6.5N 54.6E	14 12 1635 C.E.
13508	Aug 28 1635 C.E.	02:51:47	2318470.6192943		1635	Aug 28 02:52:57	0.000071	LTU	Asc.	0.2013	2.4706	1.5064	322	206	091	9.7N 42.8W	14 06 1635 C.E.
13509	Feb 20 1636 C.E.	22:33:36	2318647.4400043		1636	Feb 20 22:34:47	0.000070	LPU	Dec.	-0.8810	1.2699	0.2136	297	107	---	1.0S 121.2E	13 12 1636 C.E.
13510	Aug 16 1636 C.E.	15:28:43	2318825.1449387		1636	Aug 16 15:29:52	0.000069	LPU	Asc.	0.9861	1.0546	0.0428	268	048	---	12.7S 128.3E	14 06 1636 C.E.
13511	Jan 10 1637 C.E.	20:07:37	2318972.3398628		1637	Jan 10 20:08:46	0.000069	LNN	Dec.	1.2007	0.6463	-0.3365	206	---	---	23.0N 60.6E	14 11 1637 C.E.
13512	Feb 09 1637 C.E.	07:37:31	2319001.8177171		1637	Feb 09 07:38:40	0.000069	LNN	Dec.	-1.5164	0.0764	-0.9250	077	---	---	13.2N 111.3W	13 12 1637 C.E.
13513	Jul 07 1637 C.E.	06:26:58	2319149.7687268		1637	Jul 07 06:28:06	0.000068	LNT	Asc.	-1.0270	1.0080	-0.6010	284	---	---	23.5S 95.5W	14 04 1637 C.E.
13514	Dec 31 1637 C.E.	11:41:15	2319326.9869811		1637	Dec 31 11:42:22	0.000067	LPU	Dec.	0.5330	1.8662	0.8936	301	176	---	23.6N 174.2W	14 10 1637 C.E.
13515	Jun 26 1638 C.E.	07:20:37	2319503.0859861		1638	Jun 26 07:21:46	0.000067	LTU	Asc.	-0.2595	2.4093	1.3550	363	225	087	23.6S 109.6W	13 04 1638 C.E.
13516	Dec 21 1638 C.E.	01:59:30	2319681.5829907		1638	Dec 21 02:00:34	0.000066	LTU	Dec.	-0.1394	2.6058	1.5989	333	215	095	23.3N 30.2W	14 10 1638 C.E.
13517	Jun 15 1639 C.E.	13:31:34	2319858.0635912		1639	Jun 15 13:32:41	0.000065	LPU	Asc.	0.5177	1.9053	0.9060	325	192	---	22.9S 157.0E	13 04 1639 C.E.
13518	Dec 10 1639 C.E.	10:38:44	2320035.9435593		1639	Dec 10 10:39:46	0.000064	LPU	Dec.	-0.8696	1.2946	0.2309	300	111	---	22.2N 161.3W	14 10 1639 C.E.
13519	May 05 1640 C.E.	19:22:27	2320181.3072610		1640	May 05 19:23:32	0.000064	LNN	Asc.	-1.2899	0.4650	-0.4828	175	---	---	17.9S 68.2E	14 02 1640 C.E.
13520	Jun 04 1640 C.E.	02:43:59	2320212.6138748		1640	Jun 04 02:45:03	0.000064	LNN	Asc.	1.2340	0.5717	-0.3846	195	---	---	21.3S 41.6W	13 03 1640 C.E.
13521	Oct 29 1640 C.E.	17:26:04	2320360.2264409		1640	Oct 29 17:27:08	0.000063	LNN	Dec.	1.4390	0.2658	-0.8297	158	---	---	15.1N 94.2E	14 08 1640 C.E.
13522	Apr 25 1641 C.E.	12:13:31	2320538.0093910		1641	Apr 25 12:14:32	0.000062	LPU	Asc.	-0.5875	1.7591	0.8006	298	169	---	14.0S 175.9E	14 02 1641 C.E.
13523	Oct 18 1641 C.E.	18:59:21	2320714.1921238		1641	Oct 18 19:00:23	0.000061	LPU	Dec.	0.7061	1.5910	0.5342	322	161	---	10.6N 71.3E	13 08 1641 C.E.
13524	Apr 15 1642 C.E.	01:51:16	2320892.5772629		1642	Apr 15 01:52:14	0.000061	LTU	Asc.	0.1464	2.5930	1.5860	341	219	097	9.6S 27.8W	15 01 1642 C.E.
13525	Oct 08 1642 C.E.	03:41:17	2321068.6536729		1642	Oct 08 03:42:19	0.000060	LTU	Dec.	-0.0462	2.7719	1.7746	335	218	100	5.8N 58.4W	13 07 1642 C.E.
13526	Apr 04 1643 C.E.	08:32:33	2321246.8559327		1643	Apr 04 08:33:31	0.000059	LPU	Asc.	0.9222	1.1982	0.1342	297	087	---	4.9S 127.1E	14 01 1643 C.E.
13527	Sep 27 1643 C.E.	18:27:13	2321423.2688973		1643	Sep 27 18:28:12	0.000059	LPU	Dec.	-0.7469	1.4663	0.5085	280	138	---	1.0N 81.1E	14 07 1643 C.E.
13528	Feb 22 1644 C.E.	15:28:26	2321571.1447421		1644	Feb 22 15:29:23	0.000058	LNN	Asc.	-1.3240	0.4732	-0.6148	205	---	---	9.0N 131.1E	13 12 1644 C.E.
13529	Aug 18 1644 C.E.	02:24:17	2321748.0019990		1644	Aug 18 02:25:14	0.000057	LNN	Dec.	1.1319	0.7680	-0.2058	225	---	---	11.9S 35.5W	14 06 1644 C.E.
13530	Jun 16 1644 C.E.	10:58:48	2321777.9574953		1644	Sep 16 10:59:44	0.000057	LNN	Dec.	-1.4448	0.1873	-0.7738	115	---	---	3.8S 165.6W	14 07 1644 C.E.
13531	Feb 10 1645 C.E.	19:12:48	2321925.3005570		1645	Feb 10 19:13:46	0.000056	LPU	Asc.	-0.5789	1.8170	0.7750	327	183	---	13.5N 75.4E	13 12 1645 C.E.
13532	Aug 07 1645 C.E.	13:18:27	2322003.0544805		1645	Aug 07 13:19:22	0.000056	LTU	Dec.	0.4115	2.1161	1.0902	341	207	047	15.9S 161.6E	14 05 1645 C.E.
13533	Jan 31 1646 C.E.	06:06:07	2322279.7542490		1646	Jan 31 06:07:04	0.000055	LPU	Asc.	0.1417	2.5930	1.6030	327	211	095	17.5N 87.9W	13 11 1646 C.E.
13534	Jul 27 1646 C.E.	17:05:39	2322457.2122589		1646	Jul 27 17:06:32	0.000054	LTU	Dec.	-0.3586	2.2335	1.1671	363	219	064	19.5S 105.1E	15 05 1646 C.E.
13535	Jan 20 1647 C.E.	21:22:13	2322634.3904297		1647	Jan 20 21:23:07	0.000054	LPU	Asc.	0.8040	1.3674	0.3980	273	124	---	20.8N 42	

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Month	Day	Year	Time (UT)	(TD)	Time (UT)		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year							
13590	Apr	16	1669	C.E.	07:15:08	2330755	8021712	1669	Apr	16	07:15:31	000024	LNN	Dec.	1.3107	0.4661	-0.5599	192	---	---	9.2S	108.3W	15	01	1669	C.E.
13591	Apr	15	1669	C.E.	18:11:29	2330785	2579747	1669	May	15	18:11:54	000024	LNN	Dec.	-1.3734	0.3332	-0.6571	158	---	---	20.4S	85.6E	15	02	1669	C.E.
13592	Oct	09	1669	C.E.	10:35:33	2330931	9413558	1669	Oct	09	10:35:58	000024	LNN	Asc.	-1.3292	0.4094	-0.5713	170	---	---	5.4N	161.5W	13	07	1669	C.E.
13593	Nov	07	1669	C.E.	21:53:40	2330961	9122651	1669	Nov	07	21:54:04	000024	LNN	Asc.	1.3761	0.3406	-0.6741	161	---	---	17.9N	27.1E	13	08	1669	C.E.
13594	Apr	05	1670	C.E.	11:31:08	2331109	9799512	1670	Apr	05	11:31:30	000023	LPU	Dec.	0.6128	1.7722	0.6958	343	184	---	5.8S	171.9W	14	01	1670	C.E.
13595	Sep	29	1670	C.E.	02:24:30	2331286	6003480	1670	Sep	29	02:24:53	000023	LPU	Dec.	-0.6113	1.7137	0.7585	292	163	---	1.9N	38.3W	14	07	1670	C.E.
13596	Mar	25	1671	C.E.	11:23:10	2331463	9744251	1671	Mar	25	11:23:33	000022	LTU	Dec.	-0.1096	2.6993	1.6154	374	233	102	2.0S	169.3W	13	01	1671	C.E.
13597	Sep	18	1671	C.E.	18:24:51	2331641	2672616	1671	Sep	18	18:25:12	000022	LTU	Dec.	0.0951	2.6705	1.6963	327	211	098	1.6S	82.2E	14	07	1671	C.E.
13598	Mar	13	1672	C.E.	14:20:24	2331818	9974985	1672	Mar	13	14:20:46	000021	LPU	Dec.	-0.8211	1.3738	0.3295	303	130	---	1.8N	146.9E	13	13	1672	C.E.
13599	Sep	07	1672	C.E.	06:03:03	2331995	7521209	1672	Sep	07	06:03:24	000021	LPU	Asc.	0.8682	1.2770	0.2533	291	114	---	5.1S	91.8W	14	06	1672	C.E.
13600	Feb	01	1673	C.E.	13:37:51	2332143	9679519	1673	Feb	01	13:38:11	000020	LNN	Dec.	1.2107	0.6249	-0.3521	202	---	---	18.0N	159.6E	13	11	1673	C.E.
13601	Mar	03	1673	C.E.	00:23:38	2332172	5164115	1673	Mar	03	00:23:57	000020	LNN	Dec.	-1.4715	0.1537	-0.8376	107	---	---	5.4N	3.5W	13	12	1673	C.E.
13602	Jul	28	1673	C.E.	19:19:52	2332230	3054647	1673	Jul	28	19:20:12	000020	LNN	Asc.	-1.1970	0.6976	-0.3736	244	---	---	19.8S	71.9E	14	05	1673	C.E.
13603	Jan	22	1674	C.E.	05:23:35	2332497	7247119	1674	Jan	22	05:23:54	000019	LPU	Dec.	0.5433	1.8474	0.8747	300	175	---	20.1N	77.6W	14	11	1674	C.E.
13604	Jul	17	1674	C.E.	20:29:49	2332674	3540408	1674	Jul	17	20:30:09	000019	LPU	Asc.	-0.4279	2.2098	1.0480	352	210	035	21.5S	54.0E	13	05	1674	C.E.
13605	Jan	11	1675	C.E.	19:21:24	2332852	3065236	1675	Jan	11	19:21:39	000018	LTU	Dec.	-0.1334	2.6192	1.6074	336	216	096	21.6N	71.9E	15	11	1675	C.E.
13606	Jul	07	1675	C.E.	03:35:51	2333028	6498979	1675	Jul	07	03:36:11	000018	LPU	Asc.	0.3583	2.1991	1.2020	320	208	066	22.3S	53.0W	13	04	1675	C.E.
13607	Jan	01	1676	C.E.	03:15:58	2333206	6360888	1676	Jan	01	03:16:15	000018	LPU	Dec.	-0.8634	1.3091	0.2391	303	113	---	22.3N	48.1W	15	10	1676	C.E.
13608	May	27	1676	C.E.	10:37:08	2333353	9424559	1676	May	27	10:37:25	000017	LNN	Asc.	-1.4145	0.2337	-0.7090	126	---	---	22.9S	160.3W	13	03	1676	C.E.
13609	Jun	25	1676	C.E.	17:31:46	2333383	2303952	1676	Jun	25	17:32:03	000017	LNN	Asc.	1.0850	0.8426	-0.1084	229	---	---	22.3N	97.4E	14	04	1676	C.E.
13610	Nov	20	1676	C.E.	08:58:05	2333530	2085667	1676	Nov	20	08:58:21	000017	LNN	Dec.	1.4776	0.1968	-0.9023	137	---	---	21.2S	138.1W	13	09	1676	C.E.
13611	Dec	20	1676	C.E.	04:11:23	2333560	6475727	1676	Dec	20	04:11:41	000017	LNN	Dec.	-1.5710	0.0284	-1.0765	053	---	---	22.1N	63.3W	14	10	1676	C.E.
13612	May	17	1677	C.E.	03:32:40	2333708	6476847	1677	May	17	03:32:55	000016	LPU	Asc.	-0.7126	1.5292	0.5713	287	147	---	20.2S	54.3W	14	02	1677	C.E.
13613	Nov	09	1677	C.E.	10:52:22	2333884	9530312	1677	Nov	09	10:52:39	000016	LPU	Dec.	0.7504	1.5098	0.4532	315	150	---	17.8N	167.2W	13	08	1677	C.E.
13614	May	06	1678	C.E.	16:44:03	2334061	1972620	1678	May	06	16:44:16	000016	LTU	Asc.	0.0285	2.8100	1.8015	344	223	103	16.7S	108.0E	15	02	1678	C.E.
13615	Oct	29	1678	C.E.	20:06:02	2334239	3375256	1678	Oct	29	20:06:20	000015	LTU	Dec.	0.0093	2.8397	1.8423	333	217	100	13.8N	54.5E	13	08	1678	C.E.
13616	Apr	25	1679	C.E.	22:48:13	2334417	4501454	1679	Apr	25	22:48:26	000015	LPU	Asc.	0.8115	1.4006	0.3380	316	135	---	12.7S	17.5E	15	02	1679	C.E.
13617	Oct	19	1679	C.E.	10:58:38	2334593	9573786	1679	Oct	19	10:58:52	000014	LPU	Dec.	-0.6784	1.5940	0.6322	287	152	---	9.4N	168.2W	13	08	1679	C.E.
13618	Mar	15	1680	C.E.	06:41:35	2334771	4706687	1680	Mar	15	06:41:49	000014	LNN	Asc.	-1.3804	0.3646	-0.7134	180	---	---	6.6N	98.5W	13	13	1680	C.E.
13619	Apr	13	1680	C.E.	23:17:46	2334949	4706687	1680	Apr	13	23:18:00	000014	LNN	Asc.	1.5494	0.0560	-1.0251	073	---	---	8.3S	11.0E	14	01	1680	C.E.
13620	Sep	08	1680	C.E.	17:35:02	2334919	2326572	1680	Sep	08	17:35:15	000014	LNN	Dec.	1.2521	0.5529	-0.4316	197	---	---	4.1S	95.1E	15	06	1680	C.E.
13621	Oct	08	1680	C.E.	03:06:09	2334948	6292716	1680	Oct	08	03:06:24	000014	LNN	Dec.	-1.3720	0.3258	-0.6447	151	---	---	4.8N	49.3W	14	07	1680	C.E.
13622	Mar	04	1681	C.E.	11:26:18	2335095	9765917	1681	Mar	04	11:26:32	000013	LPU	Asc.	-0.6173	1.7408	0.7104	320	176	---	5.5S	168.8W	13	12	1681	C.E.
13623	Aug	29	1681	C.E.	03:25:43	2335273	6428572	1681	Aug	29	03:25:54	000013	LPU	Dec.	0.5511	1.8656	0.8284	334	191	---	8.7S	51.5W	14	06	1681	C.E.
13624	Feb	21	1682	C.E.	23:12:57	2335450	4673269	1682	Feb	21	23:13:11	000013	LTU	Asc.	0.1133	2.6408	1.6594	325	210	096	10.2N	15.3E	13	12	1682	C.E.
13625	Aug	18	1682	C.E.	06:16:58	2335627	7617854	1682	Aug	18	06:17:10	000012	LTU	Dec.	-0.2006	2.5267	1.4538	371	231	095	13.2S	93.4E	14	06	1682	C.E.
13626	Feb	11	1683	C.E.	14:52:21	2335805	1196885	1683	Feb	11	14:52:33	000012	LPU	Asc.	0.7848	1.4012	0.4346	275	129	---	14.6N	140.4E	14	12	1683	C.E.
13627	Aug	07	1683	C.E.	06:48:40	2335981	7838020	1683	Aug	07	06:48:52	000012	LPU	Dec.	-0.9453	1.1546	0.0932	296	074	---	17.3S	100.7E	15	05	1683	C.E.
13628	Jan	02	1684	C.E.	17:00:20	2336159	2085599	1684	Jan	02	17:00:32	000012	LNN	Asc.	-1.2865	0.5119	-0.5165	196	221	---	21.7N	106.2W	13	10	1684	C.E.
13629	Feb	01	1684	C.E.	05:47:37	2336159	7414024	1684	Feb	01	05:47:49	000012	LNN	Asc.	1.4849	0.1319	-0.8649	100	---	---	18.6N	83.0W	14	11	1684	C.E.
13630	Jun	27	1684	C.E.	02:29:58	2336306	6041482	1684	Jun	27	02:30:10	000011	LPU	Dec.	0.9948	1.0234	0.0418	257	034	---	22.4S	36.8W	13	04	1684	C.E.
13631	Dec	21	1684	C.E.	22:47:12	2336484	4494446	1684	Dec	21	22:47:22	000011	LPU	Asc.	-0.6415	1.7236	0.6392	338	176	---	22.9N	18.1E	15	10	1684	C.E.
13632	Jun	16	1685	C.E.	17:45:30	2336661	2399345	1685	Jun	16	17:45:42	000011	LPU	Dec.	0.2172	2.4316	1.4871	316	201	089	23.2S	93.7E	14	04	1685	C.E.
13633	Dec	10	1685	C.E.	22:29:10	2336838	4369246	1685	Dec	10	22:29:21	000011	LTU	Asc.	0.0347	2.8476	1.7423	379	235	105	23.1N	21.2E	14	10	1685	C.E.
13634	Jun	06	1686	C.E.	10:58:16	2337015	9571344	1686	Jun																	

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
13697	Aug 09 1710 C.E.	09:55:38	2345844.9136351	1710 Aug 09 09:55:48	000009	LPU	Asc.	-0.5853	1.8081	0.7604	337	187	16.5S	147.4W	13 05 1710 C.E.	
13698	Feb 03 1711 C.E.	12:31:19	2346023.0217527	1711 Feb 03 12:31:26	000009	LTU	Dec.	-0.1198	2.6458	1.6310	338	217	09.7N	175.7E	14 11 1711 C.E.	
13699	Jul 29 1711 C.E.	17:50:14	2346199.2432203	1711 Jul 29 17:50:25	000009	LPU	Asc.	0.2033	2.4811	1.4890	336	216	09.2N	175.8E	13 05 1711 C.E.	
13700	Jan 23 1712 C.E.	19:46:58	2346377.3242835	1712 Jan 23 19:47:07	000009	LPU	Dec.	-0.8545	1.3274	0.2537	307	117	18.8N	66.1E	15 11 1712 C.E.	
13701	Jul 18 1712 C.E.	08:21:37	2346553.8483406	1712 Jul 18 08:21:46	000009	LPU	Asc.	0.9351	1.1162	0.1679	255	073	20.1S	124.3W	13 05 1712 C.E.	
13702	Dec 13 1712 C.E.	00:53:42	2346701.5372899	1712 Dec 13 00:53:51	000009	LNN	Dec.	1.4977	0.1604	-0.9397	123	---	24.5N	14.7W	13 10 1712 C.E.	
13703	Jan 11 1713 C.E.	20:14:43	2346731.3435514	1713 Jan 11 20:14:52	000009	LNN	Dec.	-1.5569	0.0545	-1.0509	073	---	20.4N	58.1E	14 11 1713 C.E.	
13704	Jun 08 1713 C.E.	18:28:04	2346879.2694959	1713 Jun 08 18:28:13	000009	LPU	Asc.	-0.8550	1.2687	0.3092	271	110	23.8S	82.6E	15 03 1713 C.E.	
13705	Dec 02 1713 C.E.	03:16:58	2347055.6367835	1713 Dec 02 03:17:08	000009	LPU	Dec.	0.7716	1.4700	0.4152	311	143	22.7N	51.8W	13 09 1713 C.E.	
13706	May 29 1714 C.E.	07:04:52	2347233.7950486	1714 May 29 07:04:59	000009	LTU	Asc.	-0.1120	2.6583	1.6469	346	223	10.0	21.7S	107.0W	15 03 1714 C.E.
13707	Nov 21 1714 C.E.	13:01:33	2347410.0427386	1714 Nov 21 13:01:44	000009	LPU	Dec.	0.0414	2.7804	1.7837	331	215	09.9	20.0N	161.2E	12 09 1714 C.E.
13708	May 18 1715 C.E.	12:28:42	2347588.1099336	1715 May 18 12:28:50	000009	LPU	Asc.	0.6740	1.6527	0.5906	334	172	18.9S	171.9E	14 03 1715 C.E.	
13709	Nov 11 1715 C.E.	04:00:04	2347764.6667145	1715 Nov 11 04:00:13	000009	LPU	Dec.	-0.6348	1.6761	0.7103	291	160	16.6N	63.8W	13 09 1715 C.E.	
13710	Apr 06 1716 C.E.	21:22:21	2347912.3905234	1716 Apr 06 21:22:30	000009	LNN	Asc.	-1.4633	0.2070	-0.8601	137	---	8.0S	39.6E	14 01 1716 C.E.	
13711	May 06 1716 C.E.	12:57:32	2347942.0399529	1716 May 06 12:57:41	000009	LNN	Asc.	1.4192	0.2912	-0.7824	164	---	15.4S	164.9E	13 02 1716 C.E.	
13712	Oct 01 1716 C.E.	09:09:59	2348089.8819383	1716 Oct 01 09:10:08	000009	LNN	Dec.	1.3493	0.3803	-0.6158	167	---	4.5N	140.5W	14 07 1716 C.E.	
13713	Oct 30 1716 C.E.	19:42:10	2348119.3209462	1716 Oct 30 19:42:19	000009	LNN	Dec.	-1.3238	0.4189	-0.5610	170	---	12.8N	60.7E	14 08 1716 C.E.	
13714	Mar 27 1717 C.E.	03:13:30	2348266.6343749	1717 Mar 27 03:13:40	000009	LPU	Asc.	-0.6800	1.6194	0.6016	311	164	3.1S	47.2W	13 01 1717 C.E.	
13715	Sep 20 1717 C.E.	17:54:14	2348444.2459937	1717 Sep 20 17:54:22	000009	LPU	Dec.	0.6690	1.6555	0.6061	326	170	0.4S	89.6E	15 07 1717 C.E.	
13716	Mar 16 1718 C.E.	15:54:26	2348621.1627984	1718 Mar 16 15:54:36	000009	LTU	Asc.	0.0622	2.7298	1.7576	324	210	09.8	1.8N	123.6E	14 13 1718 C.E.
13717	Sep 09 1718 C.E.	19:52:17	2348798.3279801	1718 Sep 09 19:52:27	000010	LPU	Dec.	-0.0636	2.7818	1.7017	376	235	10.5	5.3S	61.2E	14 06 1718 C.E.
13718	Mar 06 1719 C.E.	07:59:01	2348975.8326519	1719 Mar 06 07:59:11	000010	LPU	Asc.	0.7478	1.4671	0.5043	280	138	6.6N	116.6W	14 12 1719 C.E.	
13719	Aug 29 1719 C.E.	20:23:52	2349152.3499901	1719 Aug 29 20:24:03	000010	LPU	Dec.	-0.7975	1.4259	0.3641	318	140	10.1S	54.4E	13 06 1719 C.E.	
13720	Jan 25 1720 C.E.	10:03:57	2349300.9194078	1720 Jan 25 10:04:07	000010	LNN	Asc.	-1.3032	0.4833	-0.5494	192	---	17.9N	148.0W	14 11 1720 C.E.	
13721	Feb 23 1720 C.E.	22:48:23	2349330.5026240	1720 Feb 23 22:48:32	000010	LNN	Asc.	1.4666	0.1658	-0.8319	112	---	11.2N	21.8E	15 12 1720 C.E.	
13722	Jul 19 1720 C.E.	16:55:22	2349477.2051193	1720 Jul 19 16:55:32	000010	LNN	Dec.	1.1365	0.7605	-0.2154	226	---	19.7S	107.5E	13 05 1720 C.E.	
13723	Aug 18 1720 C.E.	02:31:37	2349506.6052871	1720 Aug 18 02:31:47	000010	LNN	Dec.	-1.4936	0.1213	-0.8862	099	---	14.5S	36.7W	13 06 1720 C.E.	
13724	Jan 13 1721 C.E.	15:08:07	2349655.1306416	1721 Jan 13 15:08:16	000010	LPU	Asc.	-0.6568	1.6974	0.6092	338	173	20.8N	135.3E	15 11 1721 C.E.	
13725	Jul 09 1721 C.E.	08:39:35	2349831.8608261	1721 Jul 09 08:39:46	000010	LPU	Dec.	0.3650	2.1592	1.2169	309	191	06.5	22.0S	128.8W	13 04 1721 C.E.
13726	Jan 02 1722 C.E.	14:32:43	2350009.1060476	1722 Jan 02 14:32:52	000010	LTU	Asc.	0.0187	2.8768	1.7715	379	235	10.5	22.9N	143.0E	13 10 1722 C.E.
13727	Jun 29 1722 C.E.	01:49:05	2350186.5757467	1722 Jun 29 01:49:14	000010	LPU	Dec.	-0.3750	2.1452	1.1942	312	193	06.3	23.7S	26.6W	14 04 1722 C.E.
13728	Dec 22 1722 C.E.	15:28:19	2350363.1446682	1722 Dec 22 15:28:30	000010	LPU	Asc.	0.6947	1.6187	0.5485	326	163	24.1N	127.7E	14 10 1722 C.E.	
13729	May 20 1723 C.E.	04:51:43	2350511.7025862	1723 May 20 04:51:54	000010	LNN	Dec.	1.5129	0.0964	-0.9321	091	---	18.5S	73.5W	15 03 1723 C.E.	
13730	Jun 18 1723 C.E.	15:45:23	2350541.1565192	1723 Jun 18 15:45:33	000010	LNN	Dec.	-1.1715	0.7068	-0.2898	225	---	24.6S	123.6E	14 04 1723 C.E.	
13731	Nov 12 1723 C.E.	11:42:22	2350687.9877515	1723 Nov 12 11:42:33	000010	LNN	Asc.	-1.3901	0.2983	-0.6837	145	---	16.3N	179.0W	13 09 1723 C.E.	
13732	Dec 11 1723 C.E.	23:25:38	2350717.4761397	1723 Dec 11 23:25:49	000010	LNN	Asc.	1.3333	0.4173	-0.5940	175	---	24.3N	6.8E	13 10 1723 C.E.	
13733	May 08 1724 C.E.	08:19:32	2350865.8468929	1724 May 08 08:19:41	000010	LPU	Dec.	0.8072	1.4132	0.3413	321	137	16.5S	125.6W	14 02 1724 C.E.	
13734	Nov 01 1724 C.E.	03:25:57	2351024.6430226	1724 Nov 01 03:26:07	000010	LPU	Asc.	-0.7027	1.5504	0.5865	284	147	13.8N	55.2W	14 08 1724 C.E.	
13735	Apr 27 1725 C.E.	08:36:58	2351149.8590032	1725 Apr 27 08:37:09	000010	LPU	Dec.	0.0614	2.7805	1.7108	371	234	10.5	13.8S	129.9W	13 02 1725 C.E.
13736	Oct 21 1725 C.E.	18:34:28	2351397.2739338	1725 Oct 21 18:34:37	000010	LTU	Asc.	-0.0177	2.8207	1.8304	331	215	10.0	10.9N	77.6E	15 08 1725 C.E.
13737	Apr 16 1726 C.E.	13:06:19	2351574.0460585	1726 Apr 16 13:06:31	000010	LPU	Dec.	-0.6806	1.6220	0.5967	315	166	10.7S	163.1E	13 01 1726 C.E.	
13738	Oct 11 1726 C.E.	04:41:21	2351751.6946902	1726 Oct 11 04:40:30	000010	LPU	Asc.	0.7341	1.5326	0.4898	314	154	14.4	7.5N	73.7W	14 07 1726 C.E.
13739	Mar 07 1727 C.E.	15:16:25	2351899.1364003	1727 Mar 07 15:16:35	000010	LNN	Dec.	-1.2591	0.5306	-0.4355	187	---	6.4N	134.4E	13 12 1727 C.E.	
13740	Apr 06 1727 C.E.	00:41:41	2351928.5289434	1727 Apr 06 00:41:50	000010	LNN	Dec.	-1.3596	0.3509	-0.6243	157	---	7.4S	10.4W	13 01 1727 C.E.	
13741	Aug 31 1727 C.E.	15:11:51	2352076.6332340	1727 Aug 31 15:12:01	000010	LNN	Asc.	-1.4221	0.2880	-0.7901	163	---	9.9S	132.7E	13 06 1727 C.E.	
13742	Sep 30 1727 C.E.	07:40:00	2352105.8194410	1727 Sep 30 07:40:09	000010	LNN	Asc.	1.4948	0.1567	-0.9253	122	---	3.8N	118.1W	14 07 1727 C.E.	
13743	Feb 25 1728 C.E.	07:24:13	2352253.8084823	1728 Feb 25 07:24:22	000010	LPU	Dec.	0.5854	1.7688	0.7986	298	169	9.9	9.0N	107.4W	14 12 1728 C.E.
13744	Aug 19 1728 C.E.	16:48:28	2352430.2003207	1728 Aug 19 16:48:39	000010	LPU	Asc.	-0.6569	1.6764	0.6294	329	174	13.2S	108.9E	13 06 1728 C.E.	
13745	Feb 13 1729 C.E.	20:57:32	2352608.3732873	1729 Feb 13 20:57:40	000010	LPU	Dec.	-0.1065	2.6705	1.6548	339	218	09.8	13.0N	49.2E	15 12 1729 C.E.
13746	Aug 09 1729 C.E.	01:05:05	2352784.5451995	1729 Aug 09 01:05:18	000010	LTU	Asc.	0.1306	2.6136	1.6233	336	217	09.8	15.9S	15.1W	13 05 1729 C.E.
13747	Feb 03 1730 C.E.	03:55:33	2352962.6635819	1730 Feb 03 03:55:42	000010	LPU	Dec.	-0.8452	1.3449	0.2703	309	121	15.9N	55.6W	15 11 1730 C.E.	
13748	Jul 29 1730 C.E.	15:49:35	2353139.1594301	1730 Jul 29 15:49:45	000010	LPU	Asc.	0.8619	1.2504	0.3024	265	104	18.0S	123.8E	13 05 1730 C.E.	
13749	Dec 28 1730 C.E.	08:57:53	2353286.8735245	1730 Dec 28 08:58:03	000010	LNN	Dec.	1.5032	0.1501	-0.9494	119	---	24.8N	134.3W	13 10 1730 C.E.	
13750	Jan 23 1731 C.E.	04:14:00	2353464.6763869	1731 Jan 23 04:14:10	000010	LNN	Dec.	-1.5477	0.0709	-1.0335	083	---	18.3N	60.9W	14 11 1731 C.E.	
13751	Jun 20 1731 C.E.	11:49:31	2353616.5760515	1731 Jun 20 11:49:40	000010	LPU	Asc.	-0.9307	1.1308	0.1695	260	078	24.4S	27.1W	15 04 1731 C.E.	
13752	Dec 13 1731 C.E.	11:37:54	2353640.9846657	1731 Dec 13 11:38:05	000010	LPU	Dec.	0.7764	1.4602	0.4072	309	142	23.9N	175.8W	13 10	

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
13804	Apr 28 1752 C.E.	11:34:54	2361082.9825749	1752 Apr 28 11:35:07	000013	LNN	Asc.	-1.5697	0.0060	-1.0499	023	---	15.8S	174.8W	13 02 1752 C.E.	
13805	May 28 1752 C.E.	02:13:44	2361112.5928713	1752 May 28 02:13:57	000013	LNN	Asc.	1.2666	0.5677	-0.4992	222	---	20.4S	34.2W	14 03 1752 C.E.	
13806	Oct 23 1752 C.E.	01:12:41	2361260.5504736	1752 Oct 23 01:12:53	000013	LNN	Dec.	1.4211	0.2546	-0.7534	140	---	12.8N	22.4W	14 08 1752 C.E.	
13807	Nov 21 1752 C.E.	12:43:44	2361290.0303699	1752 Nov 21 12:43:57	000013	LNN	Dec.	-1.2983	0.4701	-0.5185	181	---	18.8N	165.8E	14 09 1752 C.E.	
13808	Apr 17 1753 C.E.	18:33:04	2361437.2729642	1753 Apr 17 18:33:18	000013	LPU	Asc.	-0.7683	1.4510	0.4457	297	144	11.4S	81.4E	13 02 1753 C.E.	
13809	Oct 12 1753 C.E.	08:51:15	2361614.8689217	1753 Oct 12 08:51:27	000013	LPU	Dec.	0.7597	1.4951	0.4336	319	149	8.2N	136.4W	14 08 1753 C.E.	
13810	Apr 07 1754 C.E.	08:07:46	2361791.8387291	1754 Apr 07 08:08:02	000013	LTU	Asc.	-0.0140	2.8137	1.8508	322	209 099	6.9S	121.4W	13 01 1754 C.E.	
13811	Oct 01 1754 C.E.	09:58:14	2361968.9154356	1754 Oct 01 09:58:27	000013	LTU	Dec.	0.0478	2.8146	1.7269	377	236 105	3.3N	152.2W	13 07 1754 C.E.	
13812	Mar 28 1755 C.E.	00:36:11	2362146.5251294	1755 Mar 28 00:36:24	000013	LPU	Asc.	0.6871	1.5765	0.6177	286	150	2.1S	7.5W	14 01 1755 C.E.	
13813	Sep 20 1755 C.E.	10:33:54	2362322.9402125	1755 Sep 20 10:34:08	000013	LPU	Dec.	-0.6746	1.6521	0.5891	331	171	1.8S	159.9W	13 07 1755 C.E.	
13814	Feb 16 1756 C.E.	02:47:38	2362471.6164109	1756 Feb 16 02:47:51	000013	LNN	Asc.	-1.3338	0.4283	-0.6066	183	---	11.3N	38.6W	15 12 1756 C.E.	
13815	Mar 16 1756 C.E.	15:17:34	2362501.1372038	1756 Mar 16 15:17:47	000013	LNN	Asc.	1.4259	0.2406	-0.7571	135	---	2.7N	133.2E	14 13 1756 C.E.	
13816	Aug 10 1756 C.E.	07:36:32	2362647.8170426	1756 Aug 10 07:36:45	000013	LNN	Dec.	1.2682	0.5174	-0.4554	190	---	14.2S	113.2W	13 05 1756 C.E.	
13817	Sep 08 1756 C.E.	17:19:15	2362677.2217034	1756 Sep 08 17:19:28	000013	LNN	Dec.	-1.3658	0.3549	-0.6510	165	---	6.6S	99.9E	13 06 1756 C.E.	
13818	Feb 04 1757 C.E.	07:16:40	2362825.8032370	1757 Feb 04 07:16:52	000013	LPU	Asc.	-0.6801	1.6552	0.5660	337	169	15.5N	105.7W	14 11 1757 C.E.	
13819	Jul 30 1757 C.E.	23:39:34	2363002.4858090	1757 Jul 30 23:39:47	000013	LPU	Dec.	0.5087	1.8958	0.9531	300	176	17.8S	6.5E	14 05 1757 C.E.	
13820	Jan 24 1758 C.E.	06:33:59	2363179.7736026	1758 Jan 24 06:34:14	000014	LTU	Asc.	0.0084	2.9090	1.8068	378	235 105	19.2N	95.3W	14 11 1758 C.E.	
13821	Jul 20 1758 C.E.	16:36:28	2363357.1919883	1758 Jul 20 16:36:41	000015	LTU	Dec.	-0.2280	2.4175	1.4616	320	204 088	20.9N	112.4E	14 05 1758 C.E.	
13822	Jan 13 1759 C.E.	08:06:19	2363533.8377161	1759 Jan 13 08:06:35	000015	LPU	Asc.	0.6812	1.6405	0.5763	325	166	22.1N	119.2W	13 11 1759 C.E.	
13823	Jul 10 1759 C.E.	05:48:41	2363711.7421451	1759 Jul 10 05:48:56	000015	LNN	Dec.	-1.0246	0.9797	-0.0238	260	---	23.3S	86.0W	15 04 1759 C.E.	
13824	Dec 04 1759 C.E.	05:01:42	2363888.7095115	1759 Dec 04 05:01:57	000015	LNN	Asc.	-1.4058	0.2694	-0.7124	138	---	20.9N	77.5W	13 09 1759 C.E.	
13825	Jan 02 1760 C.E.	16:47:09	2364036.3982039	1760 Jan 02 16:47:24	000015	LNN	Asc.	1.3192	0.4410	-0.5658	179	---	24.2N	109.3E	13 10 1760 C.E.	
13826	May 29 1760 C.E.	21:33:25	2364190.4247882	1760 May 29 21:33:40	000015	LPU	Dec.	0.9646	1.1233	0.0535	296	057	21.0S	36.1E	14 03 1760 C.E.	
13827	Nov 22 1760 C.E.	20:41:21	2364213.3620437	1760 Nov 22 20:41:36	000015	LPU	Asc.	-0.7355	1.4929	0.5238	282	141	19.7N	46.6E	14 09 1760 C.E.	
13828	May 18 1761 C.E.	22:11:42	2364390.4247882	1761 May 18 22:11:58	000015	LTU	Dec.	0.2063	2.5101	1.4495	366	229 094	19.6S	26.1E	14 03 1761 C.E.	
13829	Nov 12 1761 C.E.	11:15:30	2364567.9691011	1761 Nov 12 11:15:43	000015	LTU	Asc.	-0.0613	2.7459	1.7451	334	217 099	17.8N	172.7W	14 09 1761 C.E.	
13830	May 08 1762 C.E.	03:45:20	2364724.6564850	1762 May 08 03:45:37	000015	LPU	Dec.	-0.5557	1.8450	0.8318	324	187	17.6S	57.5W	13 02 1762 C.E.	
13831	Nov 01 1762 C.E.	20:19:33	2364922.3469143	1762 Nov 01 20:19:47	000015	LPU	Asc.	0.6759	1.6456	0.5905	324	167	15.2N	50.8E	15 08 1762 C.E.	
13832	Mar 29 1763 C.E.	07:48:59	2365069.8256688	1763 Mar 29 07:49:14	000015	LNN	Dec.	1.3205	0.4142	-0.5442	166	---	2.1S	115.4W	13 01 1763 C.E.	
13833	Apr 27 1763 C.E.	16:20:21	2365099.1807936	1763 Apr 27 16:20:36	000015	LNN	Dec.	-1.2551	0.5375	-0.4276	190	---	15.0S	113.7E	14 02 1763 C.E.	
13834	Sep 22 1763 C.E.	05:02:46	2365246.7102547	1763 Sep 22 05:03:01	000015	LNN	Asc.	-1.5420	0.0708	-1.0125	083	---	1.7S	76.8W	13 07 1763 C.E.	
13835	Oct 21 1763 C.E.	22:22:27	2365276.4322570	1763 Oct 21 22:22:42	000015	LNN	Asc.	1.4152	0.3072	-0.7837	169	---	12.0N	20.0E	14 08 1763 C.E.	
13836	Mar 18 1764 C.E.	00:10:49	2365424.5075080	1764 Mar 18 00:10:54	000016	LPU	Dec.	0.6410	1.6657	0.6978	294	161	1.4N	0.3W	14 13 1764 C.E.	
13837	Sep 10 1764 C.E.	06:58:11	2365600.7904052	1764 Sep 10 06:58:28	000016	LPU	Asc.	-0.7824	1.4460	0.3994	312	143	5.4S	105.0W	13 06 1764 C.E.	
13838	Mar 07 1765 C.E.	13:28:39	2365779.0615642	1765 Mar 07 13:28:52	000016	LTU	Dec.	-0.0643	2.7484	1.7318	342	220 101	5.0N	160.6E	14 12 1765 C.E.	
13839	Aug 30 1765 C.E.	15:55:15	2365955.1633669	1765 Aug 30 15:55:33	000016	LTU	Asc.	-0.0004	2.8514	1.8630	335	218	10.1	8.8S	121.2E	12 06 1765 C.E.
13840	Feb 24 1766 C.E.	19:52:34	2366133.3281691	1766 Feb 24 19:52:49	000016	LPU	Dec.	-0.8116	1.4066	0.3318	315	133	8.6N	64.9E	15 12 1766 C.E.	
13841	Aug 20 1766 C.E.	07:01:26	2366309.7926581	1766 Aug 20 07:01:42	000016	LPU	Asc.	0.7273	1.4978	0.5489	281	141	11.8S	104.9W	13 06 1766 C.E.	
13842	Jan 15 1767 C.E.	07:01:55	2366457.5471692	1767 Jan 15 01:08:12	000016	LNN	Dec.	1.5140	0.1284	-0.9675	110	---	22.5N	14.1W	14 11 1767 C.E.	
13843	Feb 13 1767 C.E.	19:58:43	2366487.3324401	1767 Feb 13 19:58:59	000016	LNN	Dec.	-1.5174	0.1245	-0.9759	110	---	12.0N	63.4E	14 12 1767 C.E.	
13844	Jul 11 1767 C.E.	16:26:56	2366635.1853720	1767 Jul 11 16:27:12	000016	LNN	Asc.	-1.0845	0.8512	-0.1152	234	---	23.2S	114.8E	14 04 1767 C.E.	
13845	Aug 10 1767 C.E.	00:29:36	2366664.5018075	1767 Aug 10 00:29:52	000016	LNN	Asc.	1.4447	0.1826	-0.7686	113	---	14.4S	0.0E	14 05 1767 C.E.	
13846	Jan 04 1768 C.E.	04:02:14	2366811.6869693	1768 Jan 04 04:29:31	000016	LPU	Dec.	0.7810	1.4492	0.4013	306	140	23.5N	65.8W	13 10 1768 C.E.	
13847	Jun 30 1768 C.E.	03:56:02	2366989.6639151	1768 Jun 30 03:56:16	000016	LTU	Asc.	-0.3499	2.2258	1.2064	343	212 068	23.5S	58.2W	15 04 1768 C.E.	
13848	Dec 23 1768 C.E.	05:06:56	2367166.1298107	1768 Dec 23 05:07:14	000016	LTU	Dec.	0.0597	2.7451	1.7519	329	213 098	23.5N	133.3E	14 10 1768 C.E.	
13849	Jun 19 1769 C.E.	08:11:23	2367343.8412340	1769 Jun 19 08:11:38	000016	LTU	Asc.	0.4302	2.1006	1.0373	358	212 032	23.1S	122.7W	14 04 1769 C.E.	
13850	Dec 13 1769 C.E.	06:16:47	2367520.7616506	1769 Dec 13 06:17:03	000016	LPU	Dec.	-0.6059	1.7312	0.7611	294	165	22.6N	95.5W	14 10 1769 C.E.	
13851	Jun 08 1770 C.E.	08:44:56	2367697.8645343	1770 Jun 08 08:45:12	000016	LNN	Asc.	1.1836	0.7187	-0.3453	245	---	21.8S	131.6W	13 03 1770 C.E.	
13852	Nov 03 1770 C.E.	09:24:12	2367874.8918044	1770 Nov 03 09:24:28	000016	LNN	Dec.	1.4477	0.2086	-0.8052	128	---	16.5N	145.4W	14 08 1770 C.E.	
13853	Dec 02 1770 C.E.	21:22:15	2367875.3904507	1770 Dec 02 21:22:31	000016	LNN	Dec.	-1.2926	0.4825	-0.5101	183	---	20.8N	37.0E	15 09 1770 C.E.	
13854	Apr 29 1771 C.E.	02:03:53	2368022.5860271	1771 Apr 29 02:04:09	000016	LPU	Asc.	-0.8211	1.3511	0.3518	289	129	15.1S	31.9W	13 02 1771 C.E.	
13855	Oct 23 1771 C.E.	16:30:05	2368200.1875619	1771 Oct 23 16:30:21	000017	LPU	Dec.	0.7954	1.4325	0.3651	315	138	12.2N	108.7E	15 08 1771 C.E.	
13856	Apr 17 1772 C.E.	16:04:27	2368377.1697563	1772 Apr 17 16:04:45	000017	LTU	Asc.	-0.0611	2.7250	1.7665	321	208 099	10.9S	118.4E	13 02 1772 C.E.	
13857	Oct 11 1772 C.E.	17:14:23	2368554.2183176	1772 Oct 11 17:14:40	000017	LTU	Dec.	0.0928	2.7338	1.6427	377	235 103	7.5N	98.0E	14 08 1772 C.E.	
13858	Apr 07 1773 C.E.	08:43:13	2368731.8633412	1773 Apr 07 08:43:29	000017	LPU	Asc.	0.6477	1.6479	0.6909	290	158	6.4S	130.1W	14 01 1773 C.E.	
13859	Sep 30 1773 C.E.	10:52:48	2368908.2450002	1773 Sep 30 10:53:06	000017	LPU	Dec.	-0.6232	1.7467	0.6830	336	180	2.6N	89.4E	13 07 1773 C.E.	
13860	Feb 26 1774 C.E.	15:58:34	2369056.9573351													

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
13911	Feb 14 1794 C.E.	22:20:59	2376350.4312364	1794 Feb 14 22:21:17	000016	LTU	Asc.	-0.0300	2.8515	1.7554	377	235	105	12.7N	28.4E	14 12 1794 C.E.
13912	Aug 11 1794 C.E.	07:29:05	2376527.8118620	1794 Aug 11 07:29:19	000016	LTU	Dec.	-0.0874	2.6791	1.7158	325	210	099	15.3S	111.1W	14 05 1794 C.E.
13913	Feb 04 1795 C.E.	00:39:29	2376704.5274147	1795 Feb 04 00:39:45	000015	LPU	Asc.	0.6610	1.6732	0.6176	324	170	---	16.9N	6.2W	13 11 1795 C.E.
13914	Jul 31 1795 C.E.	19:50:19	2376882.3266049	1795 Jul 31 19:50:33	000015	LPU	Dec.	-0.8791	1.2513	0.2388	287	110	---	19.0S	64.1E	15 05 1795 C.E.
13915	Dec 25 1795 C.E.	22:37:18	2377029.4425710	1795 Dec 25 22:37:33	000015	LNN	Asc.	-1.4110	0.2591	-0.7211	135	---	---	22.0N	21.0E	14 10 1795 C.E.
13916	Jan 24 1796 C.E.	10:09:06	2377058.9229837	1796 Jan 24 10:09:20	000015	LNN	Asc.	1.3035	0.4664	-0.5338	182	---	---	20.5N	148.9W	13 11 1796 C.E.
13917	Jun 20 1796 C.E.	10:27:53	2377206.9360269	1796 Jun 20 10:28:08	000015	LNN	Dec.	1.1354	0.8096	-0.2594	260	---	---	22.4S	156.6W	14 04 1796 C.E.
13918	Dec 14 1796 C.E.	14:16:27	2377384.0947518	1796 Dec 14 14:16:41	000015	LPU	Asc.	-0.7519	1.4649	0.4917	281	138	---	22.5N	144.9E	14 10 1796 C.E.
13919	Jun 09 1797 C.E.	11:30:08	2377560.9792536	1797 Jun 09 11:30:24	000015	LPU	Dec.	0.3665	2.2121	1.1594	356	217	062	22.7S	172.7W	13 03 1797 C.E.
13920	Dec 04 1797 C.E.	04:17:41	2377738.6789523	1797 Dec 04 04:17:57	000015	LTU	Asc.	-0.0850	2.7071	1.6972	336	217	099	22.2N	66.7W	14 09 1797 C.E.
13921	May 29 1798 C.E.	18:07:11	2377915.2549918	1798 May 29 18:07:24	000014	LTU	Dec.	-0.4130	2.1015	1.0991	331	203	048	22.1S	87.4E	13 03 1798 C.E.
13922	Nov 23 1798 C.E.	12:25:09	2378093.0174637	1798 Nov 23 12:25:22	000014	LPU	Asc.	0.6422	1.7129	0.6472	330	175	---	21.1N	170.2E	14 09 1798 C.E.
13923	Apr 19 1799 C.E.	23:52:00	2378240.4944492	1799 Apr 19 23:52:14	000014	LNN	Dec.	1.4072	0.2515	-0.6997	131	---	---	10.1S	2.4E	14 02 1799 C.E.
13924	May 19 1799 C.E.	07:35:45	2378269.8164889	1799 May 19 07:35:59	000014	LNN	Dec.	-1.1294	0.7639	-0.1927	220	---	---	20.9S	115.3W	13 03 1799 C.E.
13925	Nov 12 1799 C.E.	13:38:03	2378447.0680912	1799 Nov 12 13:38:17	000014	LNN	Asc.	0.4091	0.4091	-0.6893	193	---	---	19.0N	151.1E	13 09 1799 C.E.
13926	Apr 09 1800 C.E.	16:25:47	2378595.1845672	1800 Apr 09 16:26:00	000014	LPU	Dec.	0.7220	1.5158	0.5502	286	145	---	7.0S	114.3E	15 01 1800 C.E.
13927	Oct 02 1800 C.E.	21:46:27	2378771.4072618	1800 Oct 02 21:46:41	000013	LPU	Asc.	-0.8797	1.2675	0.2208	297	108	---	3.0N	31.1E	13 07 1800 C.E.
13928	Mar 30 1801 C.E.	05:23:50	2378949.7248890	1801 Mar 30 05:24:02	000013	LTU	Dec.	0.0052	2.8571	1.8401	345	222	102	3.6S	79.8W	15 01 1801 C.E.
13929	Sep 22 1801 C.E.	07:18:41	2379125.8046462	1801 Sep 22 07:18:57	000013	LTU	Asc.	-0.1073	2.6550	1.6671	332	215	098	0.6S	111.4W	13 07 1801 C.E.
13930	Jan 19 1802 C.E.	11:15:14	2379303.9689081	1802 Jan 19 11:15:26	000013	LPU	Dec.	-0.7517	1.5157	0.4424	325	152	---	0.1N	167.1W	14 13 1802 C.E.
13931	Sep 11 1802 C.E.	22:36:33	2379480.4240455	1802 Sep 11 22:36:46	000013	LPU	Asc.	0.6106	1.7134	0.7616	293	163	---	4.0S	19.7E	13 06 1802 C.E.
13932	Feb 06 1803 C.E.	17:10:30	2379628.2156273	1803 Feb 06 17:10:43	000013	LNN	Dec.	1.5321	0.0919	-0.9975	093	---	---	17.0N	106.6E	14 11 1803 C.E.
13933	Mar 08 1803 C.E.	11:17:24	2379657.9740179	1803 Mar 08 11:17:37	000013	LNN	Dec.	-1.4653	0.2169	-0.8770	143	---	---	4.0N	167.2W	13 12 1803 C.E.
13934	Aug 03 1803 C.E.	07:04:57	2379805.7951031	1803 Aug 03 07:05:10	000013	LNN	Asc.	-1.2349	0.5791	-0.3949	200	---	---	18.9S	104.3W	14 05 1803 C.E.
13935	Sep 01 1803 C.E.	15:18:55	2379835.1381421	1803 Sep 01 15:19:08	000013	LNN	Asc.	1.3281	0.4004	-0.5585	165	---	---	7.3S	129.6E	13 06 1803 C.E.
13936	Jan 26 1804 C.E.	21:21:07	2379982.3896652	1804 Jan 26 21:21:21	000013	LPU	Dec.	0.7882	1.4320	0.3920	320	138	---	19.5N	43.2E	13 11 1804 C.E.
13937	Jul 22 1804 C.E.	17:37:47	2380160.2345689	1804 Jul 22 17:37:58	000013	LPU	Asc.	-0.5141	1.9286	0.9013	335	196	---	20.7S	97.2E	15 05 1804 C.E.
13938	Jan 15 1805 C.E.	08:40:44	2380336.8616187	1805 Jan 15 08:40:59	000013	LTU	Dec.	0.0663	2.7307	1.7421	327	212	098	21.2N	127.7W	13 11 1805 C.E.
13939	Jul 11 1805 C.E.	21:04:40	2380511.4072352	1805 Jul 11 21:04:51	000012	LTU	Asc.	0.2561	2.4215	1.3554	368	228	088	21.9S	45.0E	14 04 1805 C.E.
13940	Jan 05 1806 C.E.	00:01:51	2380691.5012834	1806 Jan 05 00:02:03	000012	LPU	Dec.	-0.5982	1.7459	0.7748	295	167	---	22.1N	0.8E	14 10 1806 C.E.
13941	Jun 30 1806 C.E.	21:44:25	2380868.4058488	1806 Jun 30 21:44:38	000012	LNT	Asc.	1.0115	1.0320	-0.0273	384	56	---	22.3S	3.4E	14 04 1806 C.E.
13942	Nov 26 1806 C.E.	02:05:26	2381016.5871014	1806 Nov 26 02:05:37	000012	LNN	Dec.	1.4852	0.1451	-0.8792	108	---	---	22.2N	34.7W	14 09 1806 C.E.
13943	Oct 25 1806 C.E.	14:47:50	2381046.1165495	1806 Dec 25 14:48:02	000012	LNN	Dec.	-1.2891	0.4922	-0.5068	186	---	---	22.2N	138.0E	15 10 1806 C.E.
13944	May 21 1807 C.E.	16:49:19	2381193.2009152	1807 May 21 16:49:32	000012	LPU	Asc.	-0.9423	1.1230	0.1348	267	078	---	21.0S	106.6E	14 03 1807 C.E.
13945	Nov 15 1807 C.E.	08:09:45	2381370.8410559	1807 Nov 15 08:09:57	000012	LPU	Dec.	0.8472	1.3428	0.2648	311	120	---	19.1N	126.4W	14 09 1807 C.E.
13946	May 10 1808 C.E.	07:38:03	2381547.8180952	1808 May 10 07:38:16	000012	LTU	Asc.	-0.1736	2.5147	1.5639	318	204	093	17.8S	115.5W	13 02 1808 C.E.
13947	Nov 03 1808 C.E.	08:13:26	2381724.8426571	1808 Nov 03 08:13:38	000012	LTU	Dec.	0.1607	2.6123	1.5150	376	232	098	15.2N	37.5W	13 08 1808 C.E.
13948	Apr 30 1809 C.E.	00:32:49	2381902.5227938	1809 Apr 30 00:33:01	000012	LPU	Asc.	0.5490	1.8275	0.8733	299	173	---	14.0S	8.8W	14 02 1809 C.E.
13949	Oct 23 1809 C.E.	09:02:34	2382078.8767813	1809 Oct 23 09:02:47	000012	LPU	Dec.	-0.5441	1.8924	0.8276	342	193	---	10.8N	139.4W	13 08 1809 C.E.
13950	Mar 21 1810 C.E.	02:54:33	2382227.6212131	1810 Mar 21 02:54:46	000013	LNN	Asc.	-1.4209	0.2690	-0.7669	149	---	---	1.2S	42.2W	15 01 1810 C.E.
13951	Apr 19 1810 C.E.	14:53:53	2382257.1207491	1810 Apr 19 14:54:06	000013	LNN	Asc.	1.3165	0.4414	-0.5567	181	---	---	9.8S	136.7E	14 02 1810 C.E.
13952	Sep 13 1810 C.E.	06:26:57	2382403.7687144	1810 Sep 13 06:27:09	000013	LNN	Dec.	1.4298	0.2202	-0.7515	126	---	---	2.7S	98.2W	13 07 1810 C.E.
13953	Oct 12 1810 C.E.	16:39:08	2382433.1938402	1810 Oct 12 16:39:21	000013	LNN	Dec.	-1.2230	0.6168	-0.3885	210	---	---	6.2N	107.2E	13 08 1810 C.E.
13954	Mar 10 1811 C.E.	06:37:25	2382581.7759863	1811 Mar 10 06:37:38	000013	LPU	Asc.	-0.7527	1.5206	0.4342	329	152	---	3.8N	96.9W	14 13 1811 C.E.
13955	Sep 02 1811 C.E.	22:41:39	2382758.4455857	1811 Sep 02 22:41:51	000013	LPU	Dec.	0.6972	1.5524	0.6047	283	147	---	7.3S	19.3E	14 06 1811 C.E.
13956	Feb 27 1812 C.E.	05:04:37	2382935.7532103	1812 Feb 27 05:04:52	000013	LTU	Asc.	-0.0528	2.8059	1.7137	376	234	104	8.7N	87.9E	14 12 1812 C.E.
13957	Aug 22 1812 C.E.	15:01:09	2383113.1257996	1812 Aug 22 15:01:19	000013	LTU	Dec.	-0.0239	2.7998	1.8321	327	212	100	11.8S	135.4E	14 06 1812 C.E.
13958	Feb 15 1813 C.E.	08:50:32	2383289.8684263	1813 Feb 15 08:50:46	000013	LPU	Asc.	0.6454	1.6994	0.6489	324	173	---	13.3N	128.9W	13 12 1813 C.E.
13959	Aug 12 1813 C.E.	02:52:35	2383467.6198522	1813 Aug 12 02:52:47	000013	LPU	Dec.	-0.8086	1.3834	0.3656	299	135	---	15.9S	41.8W	15 05 1813 C.E.
13960	Jan 06 1814 C.E.	07:28:06	2383614.8111802	1814 Jan 06 07:28:19	000013	LNN	Asc.	-1.4118	0.2568	-0.7219	134	---	---	21.1N	110.6W	13 10 1814 C.E.
13961	Feb 04 1814 C.E.	18:46:48	2383644.8425002	1814 Feb 04 18:47:01	000013	LNN	Asc.	1.2926	0.4843	-0.5118	185	---	---	17.5N	82.1E	13 11 1814 C.E.
13962	Jul 02 1814 C.E.	16:51:16	2383792.2022699	1814 Jul 02 16:51:30	000013	LNN	Dec.	1.2224	0.6499	-0.4191	237	---	---	22.0S	108.1E	14 04 1814 C.E.
13963	Dec 26 1814 C.E.	23:08:13	2383969.4640447	1814 Dec 26 23:08:26	000013	LPU	Asc.	-0.7564	1.4574	0.4827	280	137	---	22.6N	13.2E	14 10 1814 C.E.
13964	Jun 21 1815 C.E.	18:06:18	2384146.2543800	1815 Jun 21 18:06:33	000013	LTU	Dec.	0.4498	2.0577	1.0084	350	207	015	23.1S	88.8E	14 04 1815 C.E.
13965	Dec 16 1815 C.E.	12:54:52	2384324.0380999	1815 Dec 16 12:55:03	000013	LTU	Asc.	-0.0905	2.6990	1.6851	337	217	09			

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar										
	Month	Day	Year	Time (UT)	(TD)	Time (UT)		Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
14018	Oct	24	1836	C.E.	13:14:36	2391942.0518106	1836	Oct	24	13:14:43	000006	LPU	Asc.	-0.9472	1.1437	0.0969	284	073	---	11.1N	157.8E	12	08	1836	C.E.
14019	Apr	20	1837	C.E.	20:40:38	2392120.3615561	1837	Apr	20	20:40:42	000006	LTU	Dec.	0.1033	2.6773	1.6599	346	223	100	11.6S	49.6E	15	02	1837	C.E.
14020	Oct	13	1837	C.E.	23:17:01	2392296.4701502	1837	Oct	13	23:17:08	000005	LTU	Dec.	-0.1878	2.5075	1.5193	329	211	092	7.8N	7.4E	13	08	1837	C.E.
14021	Apr	10	1838	C.E.	01:58:42	2392474.5824339	1838	Apr	10	01:58:46	000005	LPU	Dec.	-0.6622	1.6789	0.6078	336	174	---	8.3S	29.6W	14	01	1838	C.E.
14022	Oct	03	1838	C.E.	14:41:22	2392651.1120632	1838	Oct	03	14:41:27	000005	LPU	Asc.	0.5183	1.8849	0.9288	300	176	---	4.4N	136.7E	13	07	1838	C.E.
14023	Feb	28	1839	C.E.	08:53:37	2392798.8705616	1839	Feb	28	08:53:41	000005	LNN	Dec.	1.5669	0.0235	-1.0569	047	---	---	9.4N	129.5W	13	12	1839	C.E.
14024	Mar	30	1839	C.E.	02:02:58	2392828.5853878	1839	Mar	30	02:03:02	000005	LNN	Dec.	-1.3853	0.3596	-0.7265	181	---	---	4.5S	30.1W	14	01	1839	C.E.
14025	Aug	24	1839	C.E.	21:52:08	2392976.4112045	1839	Aug	24	21:52:13	000005	LNN	Asc.	-1.3742	0.3283	-0.6554	156	---	---	12.3S	33.1E	15	06	1839	C.E.
14026	Sep	23	1839	C.E.	06:57:33	2393005.7899666	1839	Sep	23	06:57:38	000005	LNN	Asc.	-1.2311	0.5831	-0.3850	197	---	---	0.9N	106.8E	14	07	1839	C.E.
14027	Feb	17	1840	C.E.	14:02:30	2393153.0850669	1840	Feb	17	14:02:35	000005	LPU	Dec.	0.8073	1.3919	0.3618	297	132	---	12.9N	153.3E	13	12	1840	C.E.
14028	Aug	13	1840	C.E.	07:23:02	2393330.8076675	1840	Aug	13	07:23:07	000005	LPU	Asc.	-0.6715	1.6444	0.6076	324	170	---	15.2S	109.4W	14	06	1840	C.E.
14029	Feb	06	1841	C.E.	02:07:07	2393507.5882697	1841	Feb	06	02:07:14	000006	LTU	Dec.	0.0812	2.7001	1.7180	325	210	097	15.8N	28.1W	13	12	1841	C.E.
14030	Aug	02	1841	C.E.	10:00:45	2393684.9171876	1841	Aug	02	10:00:50	000006	LTU	Asc.	0.0847	2.7382	1.6679	374	235	105	17.7S	148.7W	14	05	1841	C.E.
14031	Jan	26	1842	C.E.	17:44:20	2393862.9391244	1842	Jan	26	17:44:26	000006	LPU	Dec.	-0.5884	1.7634	0.7931	296	168	---	18.1N	96.9E	14	11	1842	C.E.
14032	Jul	22	1842	C.E.	10:47:32	2394038.2496174	1842	Jul	22	10:47:38	000006	LPU	Asc.	0.8384	1.3481	0.2919	312	127	---	19.6S	160.6W	13	05	1842	C.E.
14033	Dec	17	1842	C.E.	19:02:23	2394187.2933186	1842	Dec	17	19:02:29	000006	LNN	Dec.	1.5078	0.1082	-0.9249	094	---	---	24.8N	73.6E	15	10	1842	C.E.
14034	Jan	16	1843	C.E.	08:14:17	2394426.8432468	1843	Jan	16	08:14:23	000006	LNN	Dec.	-1.2885	0.4956	-0.5079	188	---	---	19.8N	121.5W	14	11	1843	C.E.
14035	Jun	12	1843	C.E.	07:22:09	2394363.8070529	1843	Jun	12	07:22:16	000006	LNN	Asc.	-1.0766	0.8719	-0.1069	240	---	---	24.2S	110.7W	13	03	1843	C.E.
14036	Jul	11	1843	C.E.	16:49:46	2394393.2012258	1843	Jul	11	16:49:52	000006	LNN	Asc.	1.5468	0.0225	-0.9827	043	---	---	20.7S	108.5E	13	04	1843	C.E.
14037	Dec	07	1843	C.E.	00:11:24	2394541.5079132	1843	Dec	07	00:11:29	000006	LPU	Dec.	0.8785	1.2898	0.2033	308	107	---	23.3N	5.0W	14	09	1843	C.E.
14038	May	31	1843	C.E.	22:50:36	2394578.4518080	1844	May	31	22:50:43	000006	LPU	Asc.	-0.3049	2.2708	1.3258	312	76	077	22.5E	16.7E	14	03	1844	C.E.
14039	Nov	24	1844	C.E.	23:44:45	2394895.4894144	1844	Nov	24	23:44:52	000006	LTU	Dec.	0.2026	2.5377	1.4360	376	230	093	20.9N	0.6E	14	09	1844	C.E.
14040	May	21	1845	C.E.	15:54:24	2395073.1627733	1845	May	21	15:54:29	000006	LPU	Asc.	0.4281	2.0488	1.0957	309	188	045	19.8S	120.5E	14	03	1845	C.E.
14041	Nov	14	1845	C.E.	00:49:35	2395249.5344370	1845	Nov	14	00:49:43	000006	LPU	Dec.	-0.4925	1.9872	0.9222	344	199	---	17.7N	16.2W	13	09	1845	C.E.
14042	Apr	11	1846	C.E.	18:11:28	2395398.2579641	1846	Apr	11	18:11:34	000006	LNN	Asc.	-1.5131	0.0999	-0.9361	093	---	---	9.7S	87.0E	15	01	1846	C.E.
14043	Nov	11	1846	C.E.	05:53:37	2395427.7455692	1846	Nov	11	05:53:43	000006	LNN	Asc.	1.2111	0.6356	-0.3640	214	---	---	16.6S	89.2W	15	02	1846	C.E.
14044	Oct	04	1846	C.E.	22:21:29	2395575.3938688	1846	Oct	04	22:21:37	000006	LNN	Dec.	1.2016	0.0780	-0.8948	076	---	---	5.9N	21.3E	13	07	1846	C.E.
14045	Nov	03	1846	C.E.	08:59:17	2395603.8744969	1846	Nov	03	08:59:23	000007	LNN	Dec.	-1.1619	0.7287	-0.2763	225	---	---	13.9N	138.6W	13	08	1846	C.E.
14046	Mar	31	1847	C.E.	21:26:55	2395752.3833836	1847	Mar	31	21:27:02	000007	LPU	Asc.	-0.8345	1.3685	0.2859	318	126	---	4.9S	39.1E	15	01	1847	C.E.
14047	Sep	24	1847	C.E.	14:33:37	2395929.1066771	1847	Sep	24	14:33:43	000007	LPU	Dec.	0.7973	1.3715	0.4183	273	124	---	1.1N	139.4E	13	07	1847	C.E.
14048	Mar	19	1848	C.E.	21:12:04	2396106.3833836	1848	Mar	19	21:12:13	000007	LPU	Asc.	-0.1185	2.6824	1.5994	373	232	101	0.1N	43.9E	14	01	1848	C.E.
14049	Sep	13	1848	C.E.	06:19:17	2396283.7633915	1848	Sep	13	06:19:22	000007	LTU	Dec.	0.0922	2.6777	1.6999	329	213	099	3.7S	95.9W	14	07	1848	C.E.
14050	Apr	09	1849	C.E.	00:55:41	2396460.5386694	1849	Apr	09	00:55:47	000007	LPU	Asc.	0.5980	1.7804	0.7415	326	181	---	5.1N	11.0W	13	13	1849	C.E.
14051	Sep	02	1849	C.E.	17:10:10	2396638.2153929	1849	Sep	02	17:10:16	000007	LPU	Dec.	-0.6807	1.6239	0.5946	318	167	---	8.4S	102.5E	15	06	1849	C.E.
14052	Jan	28	1850	C.E.	01:05:58	2396785.4580886	1850	Jan	28	01:06:05	000007	LNN	Asc.	-1.4175	0.2443	-0.7301	130	---	---	16.9N	13.4W	14	11	1850	C.E.
14053	Feb	26	1850	C.E.	11:48:05	2396814.9917231	1850	Feb	26	11:48:12	000007	LNN	Asc.	1.2586	0.5421	-0.4449	193	---	---	9.9N	173.4W	13	12	1850	C.E.
14054	Jul	24	1850	C.E.	05:40:08	2396962.7362046	1850	Jul	24	05:40:15	000007	LNN	Dec.	1.3932	0.3372	-0.7333	176	---	---	18.7S	83.7W	14	05	1850	C.E.
14055	Aug	22	1850	C.E.	20:54:53	2396992.3714436	1850	Aug	22	20:55:00	000007	LNN	Dec.	-1.4679	1.1998	-0.8699	136	---	---	13.0S	47.3E	14	06	1850	C.E.
14056	Jan	17	1851	C.E.	16:50:39	2397140.2018421	1851	Jan	17	16:50:46	000007	LPU	Asc.	-0.7659	1.4007	0.4644	280	135	---	20.0N	109.9E	15	11	1851	C.E.
14057	Jul	13	1851	C.E.	07:21:33	2397316.8066357	1851	Jul	13	07:21:42	000007	LPU	Dec.	0.6154	1.7509	0.7071	334	182	---	21.4S	109.1W	13	04	1851	C.E.
14058	Jan	07	1852	C.E.	06:10:36	2397494.7573630	1852	Jan	07	06:10:41	000007	LTU	Asc.	-0.0990	2.6864	1.6665	340	218	098	22.4N	91.1W	14	10	1852	C.E.
14059	Jul	01	1852	C.E.	15:26:05	2397761.1431165	1852	Jul	01	15:26:14	000007	LTU	Dec.	-0.1799	2.5228	1.5330	336	216	095	23.3S	129.4E	14	04	1852	C.E.
14060	Dec	26	1852	C.E.	13:02:59	2397849.4047332	1852	Dec	26	13:03:05	000007	LPU	Asc.	0.6203	1.7589	0.6816	337	179	---	23.9N	164.5E	14	10	1852	C.E.
14061	Jun	21	1853	C.E.	06:01:40	2398025.7511599	1853	Jun	21	06:01:48	000007	LPU	Dec.	-0.9146	1.1535	0.2058	258	083	---	24.4S	90.2W	13	04	1853	C.E.
14062	Dec	15	1853	C.E.	13:18:34	2398203.0545654	1853	Dec	15	13:18:42	000007	LNN	Asc.	1.3186	0.4917	-0.6135	211	---	---	24.5N	159.0E	13	10	1853	C.E.
14063	Jul	12	1854	C.E.	15:46:0																				

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Delta T (seconds)		Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time	Year	Month	Day	Time	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Year	Month	Day					
14125	Aug	02	1879	C.E.	06:57:48	2407563.7901347	1879	Aug	02	06:57:43	-000005	LNN	Asc.	1.3889	0.3097	-0.6905	155	---	---	16.6S	103.4W	13	05	1879	C.E.
14126	Dec	28	1879	C.E.	16:26:26	2407712.1850253	1879	Dec	28	16:26:21	-000005	LPU	Dec.	0.8969	1.2588	0.1666	307	097	---	24.1N	114.0E	15	10	1879	C.E.
14127	Jun	22	1880	C.E.	13:50:31	2407889.0767521	1880	Jun	22	13:50:27	-000005	LPU	Dec.	-0.4484	2.0059	1.0643	304	183	037	23.9S	152.9E	13	04	1880	C.E.
14128	Dec	16	1880	C.E.	15:39:08	2408066.1521753	1880	Dec	16	15:39:04	-000005	LPU	Dec.	0.2263	2.4950	1.3916	374	229	090	23.6N	124.3E	14	10	1880	C.E.
14129	Jun	12	1881	C.E.	06:53:49	2408243.7873699	1881	Jun	12	06:53:43	-000005	LPU	Asc.	0.2899	2.3031	1.3489	317	200	080	22.9S	103.6W	14	03	1881	C.E.
14130	Dec	05	1881	C.E.	17:08:38	2408420.2143267	1881	Dec	05	17:08:34	-000005	LPU	Dec.	-0.4640	2.0387	0.9752	344	201	---	22.0N	100.6E	13	09	1881	C.E.
14131	Jun	01	1882	C.E.	20:22:03	2408598.3486426	1882	Jun	01	20:21:58	-000005	LNN	Asc.	1.0832	0.8718	-0.1308	247	---	---	11.1S	53.9E	15	03	1882	C.E.
14132	Nov	25	1882	C.E.	01:51:06	2408774.5771476	1882	Nov	25	01:51:01	-000005	LNN	Dec.	-1.1243	0.7972	-0.2069	232	---	---	19.6N	30.9W	13	09	1882	C.E.
14133	Apr	22	1883	C.E.	11:38:33	2408922.9851093	1883	Apr	22	11:38:28	-000005	LPU	Asc.	-0.9448	1.1640	0.0856	301	071	---	13.0S	175.2W	14	02	1883	C.E.
14134	Oct	16	1883	C.E.	06:54:20	2409099.7877350	1883	Oct	16	06:54:14	-000006	LPU	Dec.	0.8731	1.2356	0.2759	263	101	---	9.6N	107.4W	13	08	1883	C.E.
14135	Apr	10	1884	C.E.	11:46:40	2409276.9907354	1884	Apr	10	11:46:35	-000006	LPU	Asc.	-0.2116	2.5066	1.4338	368	228	093	8.4S	176.4W	14	01	1884	C.E.
14136	Oct	04	1884	C.E.	22:02:01	2409454.4180618	1884	Oct	04	22:01:53	-000006	LPU	Dec.	0.1839	2.5152	1.5261	330	212	093	4.9N	26.6E	14	07	1884	C.E.
14137	Mar	30	1885	C.E.	16:34:12	2409631.1904219	1885	Mar	30	16:34:09	-000006	LPU	Asc.	0.5257	1.9067	0.8803	328	191	---	3.5S	112.7E	14	01	1885	C.E.
14138	Sep	24	1885	C.E.	07:48:18	2409808.8252030	1885	Sep	24	07:48:10	-000006	LPU	Dec.	-0.5726	1.8285	0.7868	332	187	---	0.1N	118.9W	14	07	1885	C.E.
14139	Feb	18	1886	C.E.	18:29:05	2409956.8720191	1886	Feb	18	18:29:00	-000006	LNN	Asc.	-1.4365	0.2064	-0.7622	120	---	---	10.0N	85.9E	14	12	1886	C.E.
14140	Mar	20	1886	C.E.	04:24:24	2409985.6836063	1886	Mar	20	04:24:17	-000006	LNN	Asc.	1.2029	0.6393	-0.3378	206	---	---	1.3N	63.8W	13	01	1886	C.E.
14141	Aug	14	1886	C.E.	18:42:09	2410130.9320552	1886	Aug	14	18:42:02	-000006	LNN	Dec.	1.5510	0.0490	-1.0241	069	---	---	12.9S	80.2E	14	06	1886	C.E.
14142	Sep	13	1886	C.E.	10:34:49	2410162.9408417	1886	Sep	13	10:34:42	-000006	LNN	Dec.	-1.3398	0.4391	-0.6388	198	---	---	4.9S	159.4W	14	07	1886	C.E.
14143	Feb	08	1887	C.E.	10:22:10	2410310.9320552	1887	Feb	08	10:22:03	-000006	LPU	Asc.	-0.7836	1.4082	0.4319	279	131	---	14.2N	152.1W	14	12	1887	C.E.
14144	Aug	03	1887	C.E.	20:48:59	2410487.3673513	1887	Aug	03	20:48:54	-000006	LPU	Dec.	0.7731	1.4596	0.4197	313	146	---	16.7S	49.1E	13	05	1887	C.E.
14145	Jan	28	1888	C.E.	23:20:07	2410665.4722995	1888	Jan	28	23:19:58	-000006	LPU	Asc.	-0.1094	2.6694	1.6454	342	219	098	18.0N	13.3E	15	11	1888	C.E.
14146	Jul	23	1888	C.E.	05:44:54	2410841.7395159	1888	Jul	23	05:44:50	-000006	LPU	Dec.	-0.0256	2.8030	1.8189	335	218	102	20.0S	84.7W	13	05	1888	C.E.
14147	Jan	17	1889	C.E.	05:29:45	2411019.7289888	1889	Jan	17	05:29:38	-000006	LPU	Asc.	0.6106	1.7789	0.6974	340	182	---	21.3N	79.8W	14	11	1889	C.E.
14148	Jul	12	1889	C.E.	20:53:58	2411196.3708093	1889	Jul	12	20:53:52	-000006	LPU	Dec.	-0.7654	1.4258	0.4808	277	132	---	22.6S	47.9E	14	04	1889	C.E.
14149	Jan	06	1890	C.E.	05:21:31	2411373.7232789	1890	Jan	06	05:21:26	-000006	LNN	Asc.	1.3029	0.5209	-0.5851	217	---	---	23.7N	78.8W	14	10	1890	C.E.
14150	Jun	03	1890	C.E.	06:44:48	2411521.7811140	1890	Jun	03	06:44:42	-000006	LNN	Dec.	1.0309	0.9493	-0.1655	244	---	---	21.3S	101.5W	14	03	1890	C.E.
14151	Jul	02	1890	C.E.	14:08:42	2411551.0893753	1890	Jul	02	14:08:36	-000006	LNN	Dec.	-1.4871	0.1024	-0.8441	085	---	---	24.5S	148.7E	14	04	1890	C.E.
14152	Nov	26	1890	C.E.	13:33:54	2411698.0652100	1890	Nov	26	13:33:48	-000006	LPU	Asc.	-0.9993	1.0472	0.0020	272	010	---	20.1N	153.7E	12	09	1890	C.E.
14153	May	23	1891	C.E.	18:29:17	2411876.2703391	1891	May	23	18:29:09	-000006	LPU	Dec.	0.2988	2.3201	1.2997	344	216	079	20.4S	81.9E	15	03	1891	C.E.
14154	Nov	16	1891	C.E.	00:18:52	2412052.5131025	1891	Nov	16	00:18:48	-000006	LPU	Asc.	-0.2592	2.3768	1.3881	324	206	083	18.4N	8.4W	13	09	1891	C.E.
14155	May	11	1892	C.E.	22:53:26	2412205.4537738	1892	May	11	22:53:19	-000006	LPU	Dec.	-0.4734	2.0237	0.9556	355	206	---	18.6S	15.5E	14	02	1892	C.E.
14156	Nov	04	1892	C.E.	15:44:58	2412407.1562320	1892	Nov	04	15:44:53	-000006	LPU	Asc.	0.4268	2.0566	1.0931	307	187	044	16.1N	119.5E	14	08	1892	C.E.
14157	Apr	30	1893	C.E.	23:09:03	2412584.4646128	1893	Apr	30	23:08:57	-000006	LNN	Asc.	-1.2119	0.6713	-0.4019	239	---	---	16.1S	11.5E	14	02	1893	C.E.
14158	Sep	25	1893	C.E.	20:39:09	2412732.3605169	1893	Sep	25	20:39:02	-000006	LNN	Asc.	-1.5475	0.0192	-0.9818	039	---	---	0.1S	48.8E	15	07	1893	C.E.
14159	Oct	25	1893	C.E.	07:16:20	2412761.8030090	1893	Oct	25	07:16:14	-000006	LNN	Asc.	1.1305	0.7753	-0.2081	225	---	---	13.2N	113.6W	14	08	1893	C.E.
14160	Mar	21	1894	C.E.	14:20:34	2412909.0976109	1894	Mar	21	14:20:28	-000006	LPU	Dec.	0.8770	1.2551	0.2426	283	109	---	0.4N	147.1E	13	01	1894	C.E.
14161	Sep	15	1894	C.E.	03:31:31	2413086.6885552	1894	Sep	15	03:31:25	-000006	LPU	Asc.	-0.8748	1.2799	0.2263	302	111	---	3.8S	68.7W	14	07	1894	C.E.
14162	Jan	11	1895	C.E.	03:39:16	2413263.6522638	1895	Jan	11	03:39:11	-000006	LPU	Dec.	-0.1376	2.5905	1.6205	321	207	095	4.0N	52.2W	13	13	1895	C.E.
14163	Sep	04	1895	C.E.	05:56:58	2413440.7478925	1895	Sep	04	05:56:52	-000006	LPU	Asc.	-0.1449	2.6319	1.5531	374	234	101	7.4S	89.4W	14	06	1895	C.E.
14164	Feb	28	1896	C.E.	19:45:46	2413618.3234440	1896	Feb	28	19:45:39	-000006	LPU	Dec.	-0.5488	1.8343	0.8675	300	174	---	7.4N	66.5E	14	12	1896	C.E.
14165	Aug	23	1896	C.E.	06:57:24	2413794.7898667	1896	Aug	23	06:57:20	-000006	LPU	Asc.	0.5997	1.7850	0.7307	338	185	---	10.8S	104.0W	13	06	1896	C.E.
14166	Jan	18	1897	C.E.	20:33:16	2413973.3564304	1897	Jan	18	20:33:09	-000006	LNN	Dec.	1.5332	0.0660	-0.9758	075	---	---	21.7N	54.9E	15	11	1897	C.E.
14167	Feb	17	1897	C.E.	09:57:48	2413974.9151356	1897	Feb	17	09:57:43	-000005	LNN	Dec.	-1.2716	0.5282	-0.4786	195	---	---	10.7N	146.5W	14	12	1897	C.E.
14168	Jul	14	1897	C.E.	05:05:25	2414119.7120971	1897	Jul	14	05:05:20	-000005	LNN	Asc.	-1.2879	0.4793	-0.4898	183	---	---	22.9S	74.6W	13	04	1897	C.E.
14169	Aug	12	1897	C.E.	14:08:42	2414149.0893726	1897	Aug	12	14:08:37	-000005	LNN	Asc.	1.3135	0.4472	-0.5514	183	---	---	13.6S	148.5E	12	05	1897	C.E.
14170	Jan	08	1898																						

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Date and Time (UT)	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date on the Creation Calendar		
											Pen.	Par.		Lat.	Lon.	Day	Month	Year
14232	Feb 08 1925	C. E.	21:41:58	2424190.4041436	1925 Feb 08 21:42:21	000024	LPU	Asc.	0.5921	1.8135	0.7305	343	186	---	15.5N	38.2E	15 12 1925	C. E.
14233	Aug 04 1925	C. E.	11:52:33	2424366.9948265	1925 Aug 04 11:52:58	000024	LPU	Dec.	-0.6208	1.6910	0.7464	291	161	---	17.9S	176.5W	13 05 1925	C. E.
14234	Jan 28 1926	C. E.	21:20:00	2424544.3888921	1926 Jan 28 21:20:25	000024	LNN	Asc.	1.2836	0.5551	-0.5484	223	---	---	19.4N	43.5E	14 11 1926	C. E.
14235	Jun 25 1926	C. E.	21:24:42	2424692.3921561	1926 Jun 25 21:25:06	000024	LNN	Dec.	1.1814	0.6750	-0.2945	213	---	---	22.2S	39.5E	15 04 1926	C. E.
14236	Jul 25 1926	C. E.	04:59:48	2424721.7081997	1926 Jul 25 05:00:12	000024	LNN	Dec.	-1.3511	0.3541	-0.5967	156	---	---	21.2S	73.2W	14 05 1926	C. E.
14237	Dec 19 1926	C. E.	06:19:44	2424868.7636984	1926 Dec 19 06:20:08	000024	LNT	Asc.	-1.0101	1.0258	-0.0160	268	---	---	22.4N	95.6W	13 10 1926	C. E.
14238	Jun 15 1927	C. E.	08:24:17	2425046.8501991	1927 Jun 15 08:24:40	000024	LTU	Dec.	0.4543	2.0367	1.0124	338	203	018	22.9S	126.0W	14 03 1927	C. E.
14239	Dec 08 1927	C. E.	17:34:47	2425223.2324843	1927 Dec 08 17:35:12	000024	LTU	Asc.	-0.2796	2.3390	1.3511	322	204	080	22.4N	94.3E	13 09 1927	C. E.
14240	Jun 03 1928	C. E.	12:09:33	2425401.0066313	1928 Jun 03 12:09:56	000024	LTU	Dec.	-0.3175	2.3093	1.2423	365	223	075	22.6S	177.0E	14 03 1928	C. E.
14241	Nov 27 1928	C. E.	09:01:22	2425577.8759542	1928 Nov 27 09:01:47	000024	LNT	Asc.	0.3953	2.1166	1.1487	309	190	055	21.5N	138.6W	13 09 1928	C. E.
14242	May 23 1929	C. E.	12:37:20	2425755.0259218	1929 May 23 12:37:44	000024	LNN	Dec.	-1.0650	0.9367	-0.1284	274	---	---	21.5S	169.5E	13 03 1929	C. E.
14243	Nov 17 1929	C. E.	00:02:48	2425932.5019483	1929 Nov 17 00:03:12	000024	LNN	Asc.	1.0947	0.8461	-0.1471	235	---	---	19.8N	4.9W	14 09 1929	C. E.
14244	Apr 13 1930	C. E.	05:58:30	2426079.7489611	1930 Apr 13 05:58:55	000024	LPU	Dec.	0.9545	1.1067	0.1066	267	073	---	8.0S	89.0W	13 01 1930	C. E.
14245	Oct 07 1930	C. E.	19:06:47	2426257.2963719	1930 Oct 07 19:07:10	000024	LPU	Dec.	-0.9811	1.0907	0.0254	287	038	---	4.6N	70.7E	15 07 1930	C. E.
14246	Apr 02 1931	C. E.	20:07:31	2426434.3885529	1931 Apr 02 20:07:56	000024	LTU	Dec.	0.2043	2.4638	1.5022	318	203	090	4.6S	59.2E	14 01 1931	C. E.
14247	Sep 26 1931	C. E.	19:48:05	2426611.3250525	1931 Sep 26 19:48:29	000024	LTU	Asc.	-0.2698	2.4060	1.3209	371	227	084	0.9N	61.0E	14 07 1931	C. E.
14248	Mar 22 1932	C. E.	12:32:15	2426789.0223970	1932 Mar 22 12:32:38	000024	LPU	Dec.	-0.4956	1.9304	0.9667	304	181	---	1.1S	173.4E	14 01 1932	C. E.
14249	Sep 14 1932	C. E.	21:00:36	2426965.3754124	1932 Sep 14 21:01:01	000024	LPU	Asc.	0.4664	2.0297	0.9753	347	204	---	2.9S	43.5E	14 07 1932	C. E.
14250	Feb 10 1933	C. E.	13:17:11	2427114.0536015	1933 Feb 10 13:17:36	000024	LNN	Dec.	1.5599	0.0183	-1.0264	040	---	---	15.7N	164.9E	14 12 1933	C. E.
14251	Mar 12 1933	C. E.	02:32:38	2427143.6059920	1933 Mar 12 02:33:02	000024	LNN	Dec.	-1.2368	0.5924	-0.4150	206	---	---	2.5N	36.2W	15 13 1933	C. E.
14252	Aug 05 1933	C. E.	19:45:43	2427290.3234127	1933 Aug 05 19:46:07	000024	LNN	Asc.	-1.4216	0.2323	-0.7333	130	---	---	18.3S	65.6E	13 05 1933	C. E.
14253	Sep 04 1933	C. E.	04:51:54	2427319.7027136	1933 Sep 04 04:52:19	000024	LNN	Asc.	1.1776	0.6956	-0.3008	221	---	---	6.4S	73.7W	13 06 1933	C. E.
14254	Jan 30 1934	C. E.	16:42:18	2427468.1960446	1934 Jan 30 16:42:42	000024	LPU	Dec.	0.9257	1.2075	0.1123	304	081	---	18.5N	113.1E	15 11 1934	C. E.
14255	Jul 26 1934	C. E.	12:15:14	2427645.0105764	1934 Jul 26 12:15:38	000024	LPU	Asc.	-0.6680	1.6026	0.6614	286	152	---	20.2S	178.0E	13 05 1934	C. E.
14256	Jan 19 1935	C. E.	15:47:11	2427822.1577665	1935 Jan 19 15:47:36	000024	LTU	Dec.	0.2498	2.4504	1.3501	372	227	086	20.7N	126.0E	14 11 1935	C. E.
14257	Jul 16 1935	C. E.	04:59:41	2427999.7081122	1935 Jul 16 05:00:03	000024	LTU	Asc.	0.0672	2.7147	1.7543	325	210	100	21.5S	73.5W	14 05 1935	C. E.
14258	Jan 08 1936	C. E.	18:09:34	2428176.2566390	1936 Jan 08 18:10:00	000024	LTU	Dec.	-0.4429	2.0740	1.0173	342	203	021	21.9N	89.1E	13 11 1936	C. E.
14259	Jul 04 1936	C. E.	17:24:59	2428354.2567992	1936 Jul 04 17:25:22	000024	LPU	Asc.	0.8642	1.2779	0.2670	290	116	---	22.1S	99.6E	15 04 1936	C. E.
14260	Dec 28 1936	C. E.	03:48:45	2428530.6588569	1936 Dec 28 03:49:09	000024	LNN	Dec.	-1.0970	0.8451	-0.1547	236	---	---	22.2N	57.0W	13 10 1936	C. E.
14261	May 25 1937	C. E.	07:51:10	2428678.8272024	1937 May 25 07:51:34	000024	LNN	Asc.	-1.1581	0.7697	-0.3030	255	---	---	21.9S	118.7W	14 03 1937	C. E.
14262	Nov 18 1937	C. E.	08:19:02	2428855.8465464	1937 Nov 18 08:19:25	000024	LPU	Dec.	0.9421	1.1141	0.1444	255	072	---	20.1N	128.6W	14 09 1937	C. E.
14263	Apr 14 1938	C. E.	08:43:36	2429032.8636125	1938 Apr 14 08:44:01	000024	LTU	Asc.	-0.3994	2.1542	1.0968	355	213	049	18.9S	131.9E	13 02 1938	C. E.
14264	Nov 07 1938	C. E.	22:26:18	2429210.4349342	1938 Nov 07 22:26:40	000024	LTU	Dec.	0.2738	2.3586	1.3526	332	210	081	16.6N	19.3E	15 08 1938	C. E.
14265	May 03 1939	C. E.	15:11:19	2429387.1328538	1939 May 03 15:11:44	000024	LTU	Asc.	0.3694	2.1842	1.1765	334	207	062	15.2S	131.5E	13 02 1939	C. E.
14266	Oct 28 1939	C. E.	06:36:19	2429564.7752202	1939 Oct 28 06:36:42	000024	LPU	Dec.	-0.4581	2.0478	0.9878	346	203	---	12.4N	103.0W	14 08 1939	C. E.
14267	Mar 23 1940	C. E.	19:47:53	2429712.3249211	1940 Mar 23 19:48:18	000024	LNN	Asc.	-1.5033	0.0788	-0.8798	075	---	---	2.7S	64.2E	14 01 1940	C. E.
14268	Apr 22 1940	C. E.	04:26:00	2429741.6847266	1940 Apr 22 04:26:26	000025	LNN	Asc.	1.0741	0.8683	-0.0942	233	---	---	11.1S	66.6W	13 02 1940	C. E.
14269	Oct 16 1940	C. E.	08:00:53	2429918.8339519	1940 Oct 16 08:01:18	000025	LNN	Dec.	-1.1924	0.7157	-0.3746	248	---	---	7.8N	123.5W	14 08 1940	C. E.
14270	Mar 13 1941	C. E.	11:55:22	2430066.9967808	1941 Mar 13 11:55:46	000025	LPU	Asc.	-0.8426	1.2971	0.3228	272	115	---	2.2N	176.7W	14 13 1941	C. E.
14271	Sep 05 1941	C. E.	17:46:49	2430243.2408427	1941 Sep 05 17:47:15	000025	LPU	Dec.	0.9746	1.0885	0.0513	279	053	---	5.9S	92.7E	13 06 1941	C. E.
14272	Mar 03 1942	C. E.	00:21:28	2430421.5149128	1942 Mar 03 00:21:51	000025	LPU	Asc.	-0.1545	2.5880	1.5613	344	220	096	7.0N	2.4W	15 12 1942	C. E.
14273	Aug 26 1942	C. E.	03:47:59	2430597.6583246	1942 Aug 26 03:48:27	000026	LTU	Dec.	0.1818	2.5143	1.5345	330	212	093	10.5S	56.5W	13 06 1942	C. E.
14274	Feb 20 1943	C. E.	05:37:57	2430775.7346857	1943 Feb 20 05:38:22	000026	LPU	Asc.	0.5751	1.8445	0.7617	345	189	---	11.7N	80.9W	14 12 1943	C. E.
14275	Aug 15 1943	C. E.	19:28:20	2430952.3113370	1943 Aug 15 19:28:46	000026	LPU	Dec.	-0.5533	1.8152	0.8698	297	171	---	14.7S	69.2E	14 06 1943	C. E.
14276	Feb 09 1944	C. E.	05:14:32	2431129.7184250	1944 Feb 09 05:14:57	000026	LNN	Asc.	1.2698	0.5793	-0.5219	227	---	---	16.1N	74.8W	14 12 1944	C. E.
14277	Jul 06 1944	C. E.	04:39:34	2431277.6941391	1944 Jul 06 04:40:01	000027	LNN	Dec.	1.2596	0.5328	-0.4394	193	---	---	21.5S	68.8W	14 04 1944	C. E.
14278	Aug 04 1944	C. E.	12:26:24	2431300.0183388	1944 Aug 04 12:26:52	000027	LNN	Dec.	-1.2842	0.4785	-0.4754	179	---	---	18.5S	175.1E	15 05 1944	C. E.
14279	Dec 29 1944	C. E.	14:49:08	2431454.1174505	1944 Dec 29 14:49:35	000027	LNT	Asc.	-1.0114	1.0220	-0.0173	267	---	---	22.2N	138.3E	14 10 1944	C. E.
14280	Jun 25 1945	C. E.	15:13:55	2431632.1346594	1945 Jun 25 15:14:20	000027	LPU	Dec.	0.5370	1.8863	0.8595	333	193	---	22.9S	132.2E	14 04 1945	C. E.
14281	Dec 19 1945	C. E.	02:20:20	2431808.5974583	1945 Dec 19 02:20:49	000027	LTU	Asc.	-0.2845	2.3295	1.3425	321	203	079	23.1N	35.8W	13 10 1945	C. E.
14282	Jan 14 1946	C. E.	18:38:49	2431986.2796560	1946 Jan 14 18:39:16	000028	LTU	Dec.	-0.2324	2.4655	1.3984	369	229	091	23.5S	80.3E	15 03 1946	C. E.
14283	Dec 08 1946	C. E.	17:48:00	2432163.2416696	1946 Dec 08 17:48:28	000028	LTU	Asc.	0.3864	2.1337	1.1639	310	191	057	23.1N			

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Hour	Year	Month							Day	Hour	Pen.	Par.	Lat.	Lon.	Day	Month	Year	Day	Month	Year		
14339	Aug	06	1971	C.E.	19:43:10	2441170.	3216449	1971	Aug	06	19:43:50	000042	LTU	Asc.	-0.0794	2.6959	1.7284	327	212	099	16.8S	65.7E	15	05	1971	C.E.
14340	Jan	30	1972	C.E.	05:53:23	2441326.	9537425	1972	Jan	30	10:54:07	000042	LTU	Dec.	-0.4273	2.0987	1.0498	340	203	035	17.5N	160.2W	13	11	1972	C.E.
14341	Jul	26	1972	C.E.	07:15:38	2441524.	8052581	1972	Jul	26	07:16:20	000043	LPU	Asc.	0.7116	1.5619	0.5428	313	160	---	18.8S	107.5W	14	05	1972	C.E.
14342	Jan	18	1973	C.E.	21:17:15	2441701.	3869738	1973	Jan	18	21:17:58	000043	LNN	Dec.	-1.0844	0.8655	-0.1290	237	---	---	19.4N	43.0E	13	11	1973	C.E.
14343	Jun	15	1973	C.E.	20:49:58	2441869.	2968038	1973	Jun	15	20:50:41	000044	LNN	Asc.	-1.3216	0.4686	-0.6016	205	---	---	24.5S	47.7E	14	04	1973	C.E.
14344	Jul	15	1973	C.E.	11:38:34	2441878.	9851207	1973	Jul	15	11:39:17	000044	LNN	Asc.	1.5177	0.1047	-0.9577	099	---	---	20.2S	173.6W	14	05	1973	C.E.
14345	Dec	10	1973	C.E.	01:44:22	2442026.	5724777	1973	Dec	10	01:45:06	000044	LPU	Dec.	0.9644	1.0760	0.1009	252	059	---	23.9N	27.9W	14	10	1973	C.E.
14346	Jun	04	1974	C.E.	22:15:59	2442203.	4277648	1974	Jun	04	22:16:45	000045	LPU	Asc.	-0.5488	1.8754	0.8271	341	194	---	23.0S	25.6E	13	03	1974	C.E.
14347	Nov	29	1974	C.E.	15:13:22	2442381.	1342854	1974	Nov	29	15:14:05	000045	LPU	Dec.	0.3054	2.3059	1.2898	333	209	076	21.8N	128.7E	15	09	1974	C.E.
14348	May	25	1975	C.E.	05:48:01	2442557.	7416754	1975	May	25	05:48:49	000046	LTU	Asc.	0.2368	2.4218	1.4253	336	215	088	20.6S	87.8W	13	03	1975	C.E.
14349	Nov	18	1975	C.E.	22:23:27	2442735.	4329458	1975	Nov	18	22:24:11	000046	LTU	Dec.	-0.4134	2.1353	1.0643	352	209	040	18.9N	20.5E	15	09	1975	C.E.
14350	May	13	1976	C.E.	19:54:21	2442912.	3294114	1976	May	13	19:55:08	000047	LPU	Asc.	0.9586	1.0761	0.1218	252	059	---	17.6S	60.6E	14	02	1976	C.E.
14351	Nov	06	1976	C.E.	23:01:13	2443089.	4591751	1976	Nov	06	23:02:00	000047	LNN	Dec.	-1.1276	0.8383	-0.2591	266	---	---	15.2N	10.8E	14	08	1976	C.E.
14352	Apr	04	1977	C.E.	04:18:16	2443237.	6793486	1977	Apr	04	04:19:03	000048	LPU	Asc.	-0.9148	1.1657	0.1930	263	087	---	6.5S	64.1W	14	01	1977	C.E.
14353	Sep	27	1977	C.E.	08:29:20	2443413.	8536983	1977	Sep	27	08:30:08	000048	LNN	Dec.	0.0767	0.9008	-0.1357	258	---	---	2.6N	129.9W	13	07	1977	C.E.
14354	Mar	24	1978	C.E.	16:22:22	2443592.	1821947	1978	Mar	24	16:23:08	000049	LTU	Asc.	-0.2140	2.4791	1.4519	345	219	091	1.7S	115.9E	15	01	1978	C.E.
14355	Sep	16	1978	C.E.	19:04:12	2443768.	2945854	1978	Sep	16	19:05:03	000049	LPU	Dec.	0.2951	2.3061	1.3270	324	205	079	2.3S	72.6E	13	07	1978	C.E.
14356	Mar	13	1979	C.E.	10:08:02	2443946.	3805785	1979	Mar	13	10:08:51	000050	LPU	Asc.	0.5254	1.9350	0.8539	351	198	---	3.4N	45.5E	15	13	1979	C.E.
14357	Sep	06	1979	C.E.	10:54:12	2444122.	9543101	1979	Sep	06	10:55:02	000050	LPU	Dec.	-0.4305	2.0422	1.0937	305	186	044	7.0S	163.8W	13	06	1979	C.E.
14358	Jan	01	1980	C.E.	20:45:13	2444300.	3647313	1980	Jan	01	20:46:04	000051	LNN	Asc.	1.2269	0.6546	-0.4401	239	---	---	8.3N	52.1E	14	12	1980	C.E.
14359	Jul	27	1980	C.E.	19:08:08	2444448.	8293615	1980	Jul	27	19:08:58	000051	LNN	Dec.	1.4138	0.2536	-0.7259	138	---	---	17.7S	74.4E	15	05	1980	C.E.
14360	Aug	26	1980	C.E.	03:30:30	2444477.	6461812	1980	Aug	26	03:31:21	000051	LNN	Dec.	-1.1608	0.7089	-0.2528	214	---	---	11.5S	51.9W	14	06	1980	C.E.
14361	Jan	20	1981	C.E.	07:49:58	2444624.	8263615	1981	Jan	20	07:50:49	000051	LNT	Asc.	-0.0141	1.0137	-0.0189	264	---	---	19.1N	114.8W	13	11	1981	C.E.
14362	Jul	17	1981	C.E.	04:46:48	2444802.	6991666	1981	Jul	17	04:47:39	000052	LPU	Dec.	0.7045	1.5824	0.5488	320	163	---	20.6S	70.2W	14	05	1981	C.E.
14363	Jan	09	1982	C.E.	19:55:52	2445133.	9757283	1982	Jan	09	19:56:45	000052	LPU	Asc.	-0.2916	2.3149	1.3312	319	202	078	21.8N	62.8E	14	11	1982	C.E.
14364	Jul	06	1982	C.E.	07:30:55	2445156.	8131313	1982	Jul	06	07:31:47	000053	LTU	Asc.	-0.0579	2.7861	1.7180	374	236	106	22.8S	111.6W	14	04	1982	C.E.
14365	Dec	30	1982	C.E.	11:28:44	2445224.	9263615	1982	Dec	30	11:29:37	000053	LPU	Asc.	0.3758	2.1546	1.1823	311	193	060	23.6N	171.6W	14	10	1982	C.E.
14366	Jun	25	1983	C.E.	08:22:18	2445510.	8488221	1983	Jun	25	08:23:12	000053	LPU	Dec.	-0.8152	1.3902	0.3349	315	135	---	24.1S	125.0W	13	04	1983	C.E.
14367	Dec	20	1983	C.E.	01:49:03	2445688.	5757283	1983	Dec	20	01:49:57	000054	LNN	Asc.	1.0746	0.8890	-0.1164	242	---	---	24.5N	28.0E	14	10	1983	C.E.
14368	Nov	15	1984	C.E.	04:40:09	2445835.	6945491	1984	Nov	15	04:41:04	000054	LNN	Dec.	1.1130	0.8071	-0.1756	233	---	---	17.9S	70.6W	13	02	1984	C.E.
14369	Jun	13	1984	C.E.	14:25:45	2445865.	1012100	1984	Jun	13	14:26:38	000054	LNN	Dec.	-1.5240	0.0646	-0.9411	073	---	---	24.7S	143.3E	13	03	1984	C.E.
14370	Nov	08	1984	C.E.	17:55:15	2446013.	2467036	1984	Nov	08	17:56:09	000054	LNN	Asc.	-1.0899	0.8994	-0.1821	268	---	---	15.9N	87.5E	15	08	1984	C.E.
14371	May	04	1985	C.E.	19:56:24	2446190.	3308276	1985	May	04	19:57:19	000055	LTU	Asc.	0.3519	2.1871	1.2370	310	193	068	15.8S	60.2E	14	02	1985	C.E.
14372	Oct	28	1985	C.E.	17:42:22	2446353.	2377599	1985	Oct	28	17:43:18	000055	LTU	Asc.	-0.4021	2.1675	1.0737	365	215	044	12.9N	90.5E	14	08	1985	C.E.
14373	Apr	24	1986	C.E.	12:42:35	2446545.	0295697	1986	Apr	24	12:43:29	000055	LTU	Dec.	-0.3682	2.1621	1.2023	313	194	064	13.2S	168.7E	14	02	1986	C.E.
14374	Oct	17	1986	C.E.	19:17:59	2446721.	3041579	1986	Oct	17	19:18:56	000055	LTU	Asc.	0.3189	2.3009	1.2455	353	217	074	9.6N	66.7E	13	08	1986	C.E.
14375	Apr	14	1987	C.E.	02:18:54	2446879.	5964530	1987	Apr	14	02:19:48	000055	LNN	Dec.	-1.1363	0.7770	-0.2309	234	---	---	10.1S	35.1W	15	01	1987	C.E.
14376	Oct	07	1987	C.E.	04:01:33	2447075.	6677467	1987	Oct	07	04:02:30	000056	LPU	Asc.	1.0189	0.9864	-0.0093	254	---	---	6.2N	63.9W	13	07	1987	C.E.
14377	Mar	03	1988	C.E.	16:12:46	2447224.	7530612	1988	Mar	03	16:13:41	000056	LNT	Dec.	0.9885	1.0909	-0.0013	294	---	---	7.3N	120.2E	15	12	1988	C.E.
14378	Aug	27	1988	C.E.	11:04:33	2447400.	9614970	1988	Aug	27	11:05:29	000056	LPU	Asc.	-0.8681	1.2381	0.2917	263	101	---	10.7S	165.4W	13	06	1988	C.E.
14379	Feb	20	1989	C.E.	15:35:22	2447578.	1495642	1989	Feb	20	15:36:19	000056	LPU	Dec.	0.2934	2.3653	1.2748	368	223	079	11.0N	129.7E	14	12	1989	C.E.
14380	Aug	17	1989	C.E.	03:08:10	2447755.	6306746	1989	Aug	17	03:09:06	000057	LTU	Asc.	-0.1490	2.5705	1.5985	328	211	096	13.6S	46.0W	14	06	1989	C.E.
14381	Feb	09	1990	C.E.	19:11:05	2447932.	2993664	1990	Feb	09	19:12:04	000057	LTU	Dec.	-0.4148	2.1192	1.0751	340	204	042	14.2N	75.6E	13	12	1990	C.E.
14382	Aug	06	1990	C.E.	14:12:18	2448110.	0918793	1990	Aug	06	14:13:14	000057	LPU	Asc.	0.6374	1.7005	0.6766	322	176	---	16.1S	148.2E	14	05	1990	C.E.
14383	Jan																									

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type			Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)			Greatest in Zenith		Hebrew Date on the Creation Calendar		
			Date	Time (UT)			Type	Node	Gamma			Pen.	Par.	Par.	Par.	Lat.	Lon.	Day	Month
14446	Jul 27 2018	C.E.	20:21:43	2458327.3484177	2018 Jul 27 20:22:54	000071	LTU	Dec.	0.1168	2.6794	1.6088	374	235	103	19.0S	56.2E	14 05	2018	C.E.
14447	Jan 21 2019	C.E.	05:12:16	2458504.7168568	2019 Jan 21 05:13:27	000071	LTU	Asc.	0.3684	2.1685	1.1953	312	194	062	20.3N	75.2E	14 11	2019	C.E.
14448	Jul 16 2019	C.E.	21:30:44	2458681.3963470	2019 Jul 16 21:31:56	000071	LPU	Dec.	-0.6430	1.7037	0.6532	334	178	---	21.9S	38.9E	13 05	2019	C.E.
14449	Jan 10 2020	C.E.	19:10:00	2458859.2986058	2020 Jan 10 19:11:11	000072	LNN	Asc.	1.0727	0.8956	-0.1157	245	---	---	23.0N	74.4E	15 11	2020	C.E.
14450	Jun 05 2020	C.E.	19:25:02	2459006.3090468	2020 Jun 05 19:26:15	000072	LNN	Dec.	1.2405	0.5683	-0.4049	198	---	---	21.5S	68.7E	13 03	2020	C.E.
14451	Jul 05 2020	C.E.	04:30:00	2459035.6874954	2020 Jul 05 04:31:12	000072	LNN	Dec.	-1.3638	0.3545	-0.6433	165	---	---	24.1S	66.3W	13 04	2020	C.E.
14452	Nov 30 2020	C.E.	09:42:49	2459183.9047383	2020 Nov 30 09:44:02	000072	LNN	Asc.	-1.1308	0.8287	-0.2615	261	---	---	20.7N	148.2W	14 09	2020	C.E.
14453	May 26 2021	C.E.	11:18:41	2459360.9713036	2021 May 26 11:19:53	000072	LTU	Dec.	0.4774	1.9542	1.0096	302	180	015	20.7S	170.3W	13 03	2021	C.E.
14454	Nov 19 2021	C.E.	09:02:53	2459537.8769966	2021 Nov 19 09:04:06	000073	LPU	Asc.	-0.4552	0.2722	0.9743	362	208	---	19.2N	139.2W	13 09	2021	C.E.
14455	May 16 2022	C.E.	04:11:29	2459715.6746361	2022 May 16 04:12:40	000073	LTU	Dec.	-0.2533	2.3726	1.4137	319	202	085	19.3S	63.9W	14 02	2022	C.E.
14456	Nov 08 2022	C.E.	10:59:09	2459891.9577427	2022 Nov 08 11:00:24	000073	LTU	Asc.	0.2570	2.4144	1.3589	354	220	085	16.9N	169.0W	12 08	2022	C.E.
14457	May 05 2023	C.E.	17:22:50	2460070.2241952	2023 May 05 17:24:04	000074	LNN	Dec.	-1.0349	0.9637	-0.0453	258	---	---	17.2S	98.1E	15 02	2023	C.E.
14458	Oct 28 2023	C.E.	20:14:03	2460246.3430865	2023 Oct 28 20:15:17	000074	LPU	Asc.	0.9471	1.1181	0.1222	265	076	---	14.1N	52.0E	13 08	2023	C.E.
14459	Mar 25 2024	C.E.	07:12:46	2460394.8005306	2024 Mar 25 07:14:00	000074	LNN	Dec.	1.0609	0.9559	-0.1320	279	---	---	1.2S	106.3W	14 01	2024	C.E.
14460	Sep 18 2024	C.E.	02:44:11	2460571.6104195	2024 Sep 18 02:45:25	000074	LPU	Asc.	-0.9791	1.0374	0.0851	246	041	---	2.6S	42.0W	14 07	2024	C.E.
14461	Mar 14 2025	C.E.	06:58:41	2460748.7907536	2025 Mar 14 06:59:57	000075	LTU	Dec.	0.3484	2.2597	1.1786	363	218	065	2.7N	102.2W	13 13	2025	C.E.
14462	Sep 07 2025	C.E.	18:11:43	2460926.2581336	2025 Sep 07 18:12:56	000075	LTU	Asc.	-0.2752	2.3441	1.3620	327	207	082	6.0S	86.7E	15 06	2025	C.E.
14463	Mar 03 2026	C.E.	11:33:37	2461102.9816801	2026 Mar 03 11:34:54	000075	LTU	Dec.	-0.3765	2.1839	1.1508	339	207	058	6.4N	170.6W	13 12	2026	C.E.
14464	Aug 28 2026	C.E.	04:12:49	2461280.6756672	2026 Aug 28 04:14:03	000075	LPU	Asc.	0.4964	1.9646	0.9300	338	198	---	9.3S	63.1W	14 06	2026	C.E.
14465	Feb 20 2027	C.E.	13:21:49	2461457.4672371	2027 Feb 20 13:22:58	000076	LNN	Dec.	-1.0480	0.9267	-0.0565	241	---	---	9.8N	14.7E	13 12	2027	C.E.
14466	Jul 18 2027	C.E.	16:02:55	2461605.6689094	2027 Jul 18 16:04:11	000076	LNN	Asc.	-0.5750	0.0016	-0.1067	012	---	---	22.3S	121.3E	13 05	2027	C.E.
14467	Aug 17 2027	C.E.	07:13:42	2461634.8011792	2027 Aug 17 07:14:58	000076	LNN	Asc.	1.2797	0.5457	-0.5251	219	---	---	12.4S	107.9W	14 06	2027	C.E.
14468	Jan 12 2028	C.E.	04:12:57	2461782.6756642	2028 Jan 12 04:14:13	000076	LPU	Dec.	0.9817	1.0469	0.0665	251	047	---	22.7N	61.0W	14 11	2028	C.E.
14469	Jul 06 2028	C.E.	18:19:40	2461959.2636538	2028 Jul 06 18:20:58	000077	LPU	Asc.	-0.7903	1.4267	0.3894	311	142	---	23.3S	86.5E	14 04	2028	C.E.
14470	Dec 31 2028	C.E.	16:51:58	2462137.2027508	2028 Dec 31 16:53:13	000077	LPU	Dec.	0.3258	2.2744	1.2464	336	209	071	23.3N	107.9E	15 10	2028	C.E.
14471	Jun 26 2029	C.E.	03:22:07	2462313.6403547	2029 Jun 26 03:23:25	000077	LTU	Asc.	0.0124	2.8267	1.8437	335	218	102	23.3S	49.8W	13 04	2029	C.E.
14472	Dec 20 2029	C.E.	22:41:54	2462491.4457606	2029 Dec 20 22:43:10	000078	LTU	Dec.	-0.3811	2.2008	1.1175	358	213	054	23.1N	19.0E	15 10	2029	C.E.
14473	Jun 15 2030	C.E.	18:33:15	2462668.2730949	2030 Jun 15 18:34:34	000078	LPU	Asc.	0.7535	1.4480	0.5026	278	135	---	22.6S	81.8E	14 04	2030	C.E.
14474	Dec 09 2030	C.E.	22:27:33	2462845.4357999	2030 Dec 09 22:28:51	000078	LNN	Dec.	-1.0731	0.9416	-0.1625	279	---	---	21.9N	22.1E	14 10	2030	C.E.
14475	May 07 2031	C.E.	03:50:42	2462993.6602078	2031 May 07 03:52:01	000079	LNN	Asc.	-1.0694	0.8815	-0.0901	237	---	---	17.8S	58.7W	15 02	2031	C.E.
14476	Jun 05 2031	C.E.	11:43:58	2463022.9888702	2031 Jun 05 11:45:17	000079	LNN	Asc.	1.4732	0.1291	-0.8196	096	---	---	21.1S	176.3W	14 03	2031	C.E.
14477	Oct 30 2031	C.E.	07:45:25	2463169.8232077	2031 Oct 30 07:46:44	000079	LNN	Dec.	1.1773	0.7162	-0.3200	232	---	---	14.8N	120.7W	13 08	2031	C.E.
14478	Apr 25 2032	C.E.	15:13:31	2463348.1343902	2032 Apr 25 15:14:48	000079	LPU	Asc.	-0.3577	2.2194	1.1915	343	211	066	13.8S	131.0E	14 02	2032	C.E.
14479	Oct 18 2032	C.E.	19:02:21	2463524.2933019	2032 Oct 18 19:03:41	000079	LTU	Dec.	0.4169	2.0831	1.1029	315	93	047	10.4N	70.5E	13 08	2032	C.E.
14480	Apr 14 2033	C.E.	19:12:31	2463702.3003623	2033 Apr 14 19:13:50	000080	LPU	Asc.	0.3954	2.1712	1.0945	361	215	049	9.4S	72.0E	15 01	2033	C.E.
14481	Oct 08 2033	C.E.	10:55:03	2463878.9548956	2033 Oct 08 10:56:23	000080	LPU	Dec.	-0.2889	2.3058	1.3498	313	197	079	5.8N	166.8W	13 07	2033	C.E.
14482	Apr 03 2034	C.E.	19:05:39	2464056.2955900	2034 Apr 03 19:07:00	000081	LNN	Asc.	1.1143	0.8546	-0.2271	265	---	---	4.6S	74.7E	14 01	2034	C.E.
14483	Sep 28 2034	C.E.	02:46:16	2464233.6154661	2034 Sep 28 02:47:37	000081	LNN	Asc.	-1.0110	0.9912	0.0146	249	027	---	1.0N	43.6W	14 07	2034	C.E.
14484	Feb 22 2035	C.E.	09:40:50	2464380.8783590	2035 Feb 22 09:06:12	000081	LNN	Asc.	-1.0367	0.9652	-0.0532	256	---	---	9.2N	133.1W	13 12	2035	C.E.
14485	Aug 19 2035	C.E.	10:10:54	2464558.5492311	2035 Aug 19 10:12:14	000081	LPU	Dec.	0.9433	1.1508	0.1040	290	077	---	12.0S	107.5W	14 06	2035	C.E.
14486	Feb 11 2036	C.E.	22:11:44	2464735.4248206	2036 Feb 11 22:13:07	000082	LTU	Asc.	-0.3110	2.2752	1.2996	316	199	074	13.6N	30.1E	14 12	2036	C.E.
14487	Aug 07 2036	C.E.	02:51:10	2464912.6188964	2036 Aug 07 02:52:32	000082	LTU	Dec.	0.2004	2.5268	1.4545	372	231	095	16.1S	41.4W	14 05	2036	C.E.
14488	Jan 31 2037	C.E.	14:00:16	2465090.0835136	2037 Jan 31 14:01:38	000083	LTU	Asc.	0.3619	2.1804	1.2075	312	194	064	17.5N	153.4E	14 11	2037	C.E.
14489	Jul 27 2037	C.E.	04:08:31	2465266.6275755	2037 Jul 27 04:09:54	000083	LPU	Dec.	-0.5582	1.8584	0.8096	341	192	---	19.6S	60.4W	13 05	2037	C.E.
14490	Jan 21 2038	C.E.	03:48:29	2465444.6586681	2038 Jan 21 03:49:51	000083	LNN	Asc.	1.0710	0.8996	-0.1137	246	---	---	20.9N	54.2W	15 11	2038	C.E.
14491	Jun 17 2038	C.E.	02:43:38	2465591.9163336	2038 Jun 17 02:45:02	000084	LNN	Dec.	1.3082	0.4422	-0.5270	176	---	---	22.1S	40.5W	13 04	2038	C.E.
14492	Jul 16 2038	C.E.	11:34:32	2465720.0823138	2038 Jul 16 11:35:56	000084	LNN	Dec.	-1.2838	0.4999	-0.4949	192	---	---	22.5S	172.0W	13 05	2038	C.E.
14493	Dec 11 2038	C.E.	17:43:36	2465769.2386120	2038 Dec 11 17:45:00	000084	LNN	Asc.	-1.1448	0.8047	-0.2888	259	---	---	22.0N	92.6E	15 10	2038	C.E.
14494	Jun 06 2039	C.E.	18:53:01	2465946.2868173	2039 Jun 06 18:54:25	000084	LPU	Dec.	0.5459	1.8273	0.8848	297	172	---	22.1S	76.6E	14 03	2039	C.E.
14495	Nov 30 2039	C.E.	16:55:03	2466123.2048926	2039 Nov 30 16:56:28	000085	LPU	Asc.	-0.4720	2.0419	0.9428	360	206	---	21.3N	103.5E	14 09	2039	C.E.
14496	May 26 2040	C.E.	11:44:56	2466300.9895425	2040 May 26 11:46:20	000085	LTU	Dec.	-0.1872	2.4939	1.5349	321	206	092	21.5S	177.0W	14 03	2040	C.E.
14497</																			

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Lunar Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)		Lunar Eclipse Type Node Gamma		Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar									
	Year	Month	Day	Time	Year	Month	Day	Time	Type	Node	Gamma	Mag.	Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year						
14553	Jan	11	2066	C.E.	15:02:41	2475662	1268641	2066	Jan	11	15:04:46	000126	LTU	Dec.	-0.3687	2.2260	1.1379	361	215	058	21.4N	136.2E	15	11	2066	C.E.
14554	Jul	07	2066	C.E.	09:28:21	2475838	8946872	2066	Jul	07	09:30:29	000128	LPU	Asc.	0.6056	1.7179	0.7753	292	163	---	21.9S	141.0W	13	04	2066	C.E.
14555	Dec	31	2066	C.E.	14:28:01	2476016	1027872	2066	Dec	31	14:30:09	000128	LNN	Dec.	-1.0539	0.9773	-0.1278	283	---	---	22.1N	143.6E	13	10	2066	C.E.
14556	May	28	2067	C.E.	18:53:58	2476164	2874796	2067	May	28	18:56:07	000129	LNN	Asc.	-1.2012	0.6404	-0.3325	209	---	---	22.8S	75.8E	15	03	2067	C.E.
14557	Jun	27	2067	C.E.	02:38:56	2476193	6103732	2067	Jun	27	02:41:05	000129	LNN	Asc.	1.3394	0.3753	-0.5750	160	---	---	22.0S	39.1W	14	04	2067	C.E.
14558	Nov	21	2067	C.E.	00:02:32	2476340	5017548	2067	Nov	21	00:04:42	000130	LNN	Dec.	-1.2106	0.6544	-0.3808	222	---	---	21.0N	4.4W	13	09	2067	C.E.
14559	May	17	2068	C.E.	05:40:06	2476518	7361764	2068	May	17	05:42:15	000131	LPU	Asc.	-0.4851	1.9827	-0.9534	337	199	---	20.0S	86.0W	15	03	2068	C.E.
14560	Nov	09	2068	C.E.	11:44:46	2476694	9894250	2068	Nov	09	11:47:01	000133	LTU	Dec.	0.4645	1.9963	1.0151	311	188	018	17.6N	179.7E	13	09	2068	C.E.
14561	May	06	2069	C.E.	09:07:43	2476872	8803538	2069	May	06	09:09:56	000134	LTU	Asc.	-0.2763	2.3966	1.3230	368	226	084	16.5S	137.7W	14	02	2069	C.E.
14562	Oct	30	2069	C.E.	03:32:50	2477049	6478033	2069	Oct	30	03:35:05	000135	LPU	Dec.	-0.2263	2.4236	1.4616	316	201	087	13.7N	57.2W	14	08	2069	C.E.
14563	Apr	25	2070	C.E.	09:19:09	2477226	8882949	2070	Apr	25	09:21:25	000136	LNT	Asc.	1.0044	1.0516	-0.0206	287	---	---	12.5S	140.1W	13	02	2070	C.E.
14564	Oct	19	2070	C.E.	18:48:55	2477404	2839677	2070	Oct	19	18:51:11	000137	LPU	Dec.	-0.9406	1.1258	0.1385	263	078	---	9.4N	74.2E	15	08	2070	C.E.
14565	Mar	16	2071	C.E.	01:28:51	2477551	5616961	2071	Mar	16	01:31:09	000138	LNN	Asc.	-1.0757	0.8879	-0.1191	245	---	---	0.8N	20.4W	13	13	2071	C.E.
14566	Sep	09	2071	C.E.	15:03:21	2477729	1273256	2071	Sep	09	15:05:40	000139	LNN	Dec.	-1.0834	0.8990	-0.1582	265	---	---	4.2S	133.2E	14	06	2071	C.E.
14567	Mar	04	2072	C.E.	15:20:47	2477906	1394329	2072	Mar	04	15:23:08	000140	LTU	Asc.	-0.3430	2.2127	1.2442	313	196	068	5.6N	132.6E	13	12	2072	C.E.
14568	Aug	28	2072	C.E.	16:03:21	2478083	1689948	2072	Aug	28	16:05:42	000141	LTU	Dec.	0.3563	2.2430	1.1663	366	220	064	8.9S	119.3E	13	06	2072	C.E.
14569	Feb	22	2073	C.E.	07:22:31	2478260	8073009	2073	Feb	22	07:24:52	000142	LTU	Asc.	0.3388	2.2219	1.2504	314	196	069	10.3N	107.2W	14	12	2073	C.E.
14570	Aug	17	2073	C.E.	17:40:18	2478437	2363203	2073	Aug	17	17:42:43	000143	LTU	Dec.	-0.3998	2.1480	1.1014	351	212	050	13.4S	96.0E	13	06	2073	C.E.
14571	Feb	11	2074	C.E.	20:53:33	2478615	5702527	2074	Feb	11	20:55:57	000144	LNN	Asc.	1.0611	0.9192	-0.0969	250	---	---	14.7N	50.1E	15	12	2074	C.E.
14572	Jul	08	2074	C.E.	17:19:13	2478762	2216740	2074	Jul	08	17:21:37	000145	LNN	Dec.	1.4456	0.1870	-0.7761	117	---	---	20.9S	101.5E	13	04	2074	C.E.
14573	Aug	07	2074	C.E.	01:53:38	2478939	9729188	2074	Aug	07	01:56:04	000145	LNN	Dec.	-1.1291	0.7814	-0.2088	232	---	---	17.4S	26.7W	13	05	2074	C.E.
14574	Jan	02	2075	C.E.	09:52:37	2478939	9115350	2075	Jan	02	09:55:03	000146	LNN	Asc.	-1.1641	0.7716	-0.3266	255	---	---	21.8N	147.2W	14	10	2075	C.E.
14575	Jun	28	2075	C.E.	09:53:08	2479116	9119022	2075	Jun	28	09:55:36	000147	LPU	Dec.	-0.6897	1.5625	0.6221	284	148	---	22.5S	147.4W	13	04	2075	C.E.
14576	Dec	22	2075	C.E.	08:53:27	2479293	8704508	2075	Dec	22	08:55:56	000148	LPU	Asc.	-0.4945	2.0010	0.9014	358	203	---	23.0N	133.7W	13	10	2075	C.E.
14577	Jun	17	2076	C.E.	02:37:18	2479471	57892357	2076	Jun	17	02:39:45	000149	LPU	Dec.	-0.0452	2.7555	1.7944	325	211	100	23.4S	39.0W	14	04	2076	C.E.
14578	Dec	10	2076	C.E.	11:32:21	2479647	9808009	2076	Dec	10	11:34:54	000150	LTU	Asc.	0.2102	2.4990	1.4460	352	221	091	23.2N	174.9W	13	10	2076	C.E.
14579	Jun	06	2077	C.E.	14:57:21	2479824	1231589	2077	Jun	06	14:59:51	000151	LPU	Dec.	-0.8387	1.3258	0.3124	294	125	---	23.5S	135.2E	14	03	2077	C.E.
14580	Nov	29	2077	C.E.	21:33:20	2480002	3981507	2077	Nov	29	21:35:53	000152	LPU	Asc.	0.8855	1.2309	0.2357	272	104	---	22.5N	33.6E	13	09	2077	C.E.
14581	Apr	27	2078	C.E.	04:33:12	2480150	6987174	2078	Apr	27	04:35:45	000153	LNN	Dec.	-1.2222	0.6559	-0.4242	238	---	---	13.0S	68.4W	14	02	2078	C.E.
14582	Oct	21	2078	C.E.	03:05:29	2480327	6288106	2078	Oct	21	03:08:03	000154	LNN	Asc.	-1.1021	0.8173	-0.1458	225	---	---	9.8N	49.7W	14	08	2078	C.E.
14583	Nov	19	2078	C.E.	12:37:28	2480357	6206145	2078	Nov	19	12:40:02	000154	LNN	Asc.	1.5147	0.0615	-0.9042	066	---	---	21.1N	166.5E	13	09	2078	C.E.
14584	Apr	16	2079	C.E.	05:08:10	2480504	7140062	2079	Apr	16	05:10:46	000155	LPU	Dec.	-0.4799	2.0101	0.9453	350	203	---	9.8S	76.9W	13	01	2079	C.E.
14585	Oct	10	2079	C.E.	17:27:54	2480682	2277069	2079	Oct	10	17:30:28	000156	LPU	Asc.	-0.4246	2.0787	1.0793	324	199	042	6.5N	94.9E	15	07	2079	C.E.
14586	Apr	04	2080	C.E.	11:21:00	2480858	9729188	2080	Apr	04	11:23:40	000158	LTU	Dec.	-0.2751	2.3608	1.3460	338	214	082	6.4S	169.7W	13	01	2080	C.E.
14587	Sep	29	2080	C.E.	01:50:03	2481036	564224	2080	Sep	29	01:52:40	000159	LTU	Asc.	0.3203	2.2968	1.2444	354	217	074	3.0N	30.1W	14	07	2080	C.E.
14588	Mar	25	2081	C.E.	00:19:21	2481213	5134322	2081	Mar	25	00:22:01	000160	LPU	Dec.	-0.9687	1.0654	0.0956	252	055	---	2.9S	3.8W	14	01	2081	C.E.
14589	Sep	18	2081	C.E.	03:32:43	2481390	6477209	2081	Sep	18	03:35:25	000161	LNN	Asc.	1.0747	0.9271	-0.1541	276	---	---	0.8S	55.1W	14	07	2081	C.E.
14590	Feb	13	2082	C.E.	06:26:37	2481538	7684895	2082	Feb	13	06:29:19	000162	LNN	Dec.	-1.0101	0.9056	0.0136	247	026	---	14.1N	92.7W	14	12	2082	C.E.
14591	Aug	08	2082	C.E.	14:43:59	2481715	1138810	2082	Aug	08	14:46:43	000163	LNT	Asc.	-1.0203	1.0013	-0.0290	270	---	---	16.8S	140.8E	12	05	2082	C.E.
14592	Feb	02	2083	C.E.	18:24:02	2481893	2666847	2083	Feb	02	18:26:44	000164	LTU	Dec.	0.3463	2.2401	1.2054	339	209	067	16.9N	87.5E	15	11	2083	C.E.
14593	Jul	29	2083	C.E.	01:02:49	2482069	5436245	2083	Jul	29	01:05:36	000165	LTU	Asc.	-0.2142	2.4522	1.4775	328	210	090	18.9S	14.0W	13	05	2083	C.E.
14594	Jan	22	2084	C.E.	23:10:14	2482247	4654361	2084	Jan	22	23:12:58	000166	LTU	Dec.	-0.3610	2.2408	1.1514	362	216	061	19.2N	15.2E	15	11	2084	C.E.
14595	Jul	17	2084	C.E.	16:56:04	2482424	2055993	2084	Jul	17	16:58:51	000167	LPU	Asc.	0.5313	1.8540	0.9119	298	174	---	20.4S	107.4E	14	05	2084	C.E.
14596	Jan	10	2085	C.E.	22:29:41	2482601	4372846	2085	Jan	10	22:32:29	000168	LNN	Dec.	-1.0453	0.9927	-0.1117	285	---	---	20.8N	24.3E	14	11	2085	C.E.
14597	Jun	08	2085	C.E.	02:14:47	2482749	5936036	2085	Jun	08	02:17:36	000169	LNN	Asc.	-1.2745	0.5065	-0.4678	189	---	---	24.2S	33.9W	15	03	2085	C.E.
14598	Jul	07	2085	C.E.	10:01:50	2482778	9179417	2085	Jul	07	10:04:39	000169	LNN	Asc.	1.2694	0.5047	-0.4474	184	---	---	21.2S	149.5W	14	04	2085	C.E.
14599	Dec	01	2085	C.E.	08:22:45	2482925	8491340	2085	Dec	01	08:25:35	000170	LNN	Dec.	-1.2189	0.6387	-0.3953	219	---	---	23.1N	128.5W	13	09	2085	C.E.
14600	May	28	2086	C.E.	12:40:56	2483104	0284229	2086	May	28	12:43:45	000171	LPU	Asc.	-0.5585	1.8487	0.8181	332	189	---	22.1S	169.1E	14	03	2086	C.E.
14601	Nov	20	2086	C.E.	20:16:50	2483280	340217	2086	Nov	20	20:19:43	000172	LPU	Dec.	-0.4799	1.9681	0.9866	310	186	---	20.4N	52.2E	13	09	2086	C.E.
14602	May	17	2087	C.E.	15:52:26	2483458	1614124	2087	May	17	15:55:19	000174	LTU	Asc.	0.1999	2.5278	1.4556	371	231	095	19.3S	121.0E	14			

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)			Greatest in Zenith		Hebrew Date on the Creation Calendar	
										Pen.	Par.	Tot.	Lat.	Lon.	Day	Month
14660	Jul 09 2112 C.E.	17:15:58	2492642.2194225	2112 Jul 09 17:19:49	000233	LTU	Dec.	0.1055	2.6471	1.6815	327	211	098	22.1S	102.4E	15 04 2112 C.E.
14661	Jan 02 2113 C.E.	04:19:04	2492818.6799083	2113 Jan 02 04:23:00	000234	LTU	Asc.	0.1964	2.5222	1.4736	350	220	092	23.1N	63.9W	13 10 2113 C.E.
14662	Jun 29 2113 C.E.	04:51:31	2492996.7024391	2113 Jun 29 04:55:24	000235	LPU	Dec.	-0.6887	1.6036	0.5851	315	165	---	23.9S	72.0W	15 04 2113 C.E.
14663	Dec 22 2113 C.E.	14:54:45	2493173.1213530	2113 Dec 22 14:58:42	000236	LPU	Asc.	0.8666	1.2644	0.2713	273	110	---	24.3N	135.8E	14 10 2113 C.E.
14664	May 19 2114 C.E.	18:03:37	2493321.2525081	2114 May 19 18:07:34	000237	LNN	Dec.	1.3611	0.3985	-0.6766	190	---	---	18.7S	88.7E	14 03 2114 C.E.
14665	Jun 18 2114 C.E.	09:13:08	2493350.8841223	2114 Jun 18 09:17:05	000237	LNN	Dec.	-1.4944	0.1478	-0.9153	117	---	---	24.7S	138.1W	14 04 2114 C.E.
14666	Nov 12 2114 C.E.	19:55:35	2493498.3302672	2114 Nov 12 19:59:33	000238	LNN	Asc.	-1.1533	0.7271	-0.2435	215	---	---	16.7N	57.6E	14 09 2114 C.E.
14667	Dec 12 2114 C.E.	06:05:26	2493527.7537735	2114 Dec 12 06:09:25	000239	LNN	Asc.	1.4931	0.1026	-0.8662	085	---	---	24.5N	93.3W	13 10 2114 C.E.
14668	May 08 2115 C.E.	19:17:24	2493675.3037513	2115 May 08 19:21:25	000240	LPU	Dec.	0.5996	1.7850	0.7312	337	185	---	16.6S	70.0E	14 02 2115 C.E.
14669	Nov 02 2115 C.E.	09:32:33	2493852.8976025	2115 Nov 02 09:36:33	000241	LPU	Asc.	-0.4918	1.9613	0.9500	323	192	---	14.2N	147.1W	14 08 2115 C.E.
14670	Apr 27 2116 C.E.	02:37:16	2494029.6092130	2116 Apr 27 02:41:20	000242	LTU	Dec.	-0.1746	2.5388	1.5365	338	218	095	14.0S	39.9W	13 02 2116 C.E.
14671	Oct 21 2116 C.E.	16:49:36	2494207.2011079	2116 Oct 21 16:53:37	000243	LTU	Asc.	0.2353	2.4588	1.3943	361	224	089	11.1N	103.6E	15 08 2116 C.E.
14672	Apr 16 2117 C.E.	16:27:55	2494384.1860577	2117 Apr 16 16:32:00	000244	LPU	Dec.	-0.8852	1.2140	0.2532	264	098	---	11.1S	112.6E	14 01 2117 C.E.
14673	Oct 10 2117 C.E.	17:43:06	2494561.2382586	2117 Oct 10 17:47:11	000246	LPU	Asc.	0.9675	1.1275	0.0389	299	049	---	7.6N	90.6E	14 07 2117 C.E.
14674	Mar 07 2118 C.E.	23:28:58	2494709.4784488	2118 Mar 07 23:33:05	000247	LNN	Dec.	1.0495	0.9229	-0.0584	241	---	---	6.0N	11.0E	15 12 2117 C.E.
14675	Aug 31 2118 C.E.	04:47:38	2494865.6997421	2118 Aug 31 04:51:46	000248	LNN	Asc.	-1.1543	0.7541	-0.2736	239	---	---	9.7S	71.2W	13 06 2118 C.E.
14676	Feb 25 2119 C.E.	11:01:04	2495003.9590701	2119 Feb 25 11:05:11	000249	LTU	Dec.	0.3765	2.1858	1.1491	340	207	058	9.5N	161.9W	14 12 2119 C.E.
14677	Aug 20 2119 C.E.	15:47:45	2495240.1581625	2119 Aug 20 15:51:57	000250	LTU	Asc.	-0.3538	2.1947	1.2228	320	200	067	12.8S	124.1E	12 06 2119 C.E.
14678	Feb 14 2120 C.E.	15:13:08	2495418.1341240	2120 Feb 14 15:17:18	000251	LTU	Dec.	-0.3371	2.2849	1.1951	365	219	068	12.9N	135.1E	14 12 2120 C.E.
14679	Aug 09 2120 C.E.	07:57:19	2495594.8314643	2120 Aug 09 08:01:32	000253	LTU	Asc.	0.3875	2.1183	1.1752	307	189	059	15.4S	118.1W	13 05 2120 C.E.
14680	Feb 02 2121 C.E.	14:28:25	2495772.1030616	2121 Feb 02 14:32:39	000254	LNT	Dec.	-1.0235	1.0309	-0.0698	289	---	---	15.8N	145.9E	13 11 2121 C.E.
14681	Jun 30 2121 C.E.	16:45:37	2495920.1983503	2121 Jun 30 16:49:53	000255	LNN	Asc.	-1.4272	0.2286	-0.7502	131	---	---	24.5S	109.8E	14 04 2121 C.E.
14682	Jul 31 2121 C.E.	00:48:28	2495949.5336554	2121 Jul 31 00:52:43	000255	LNN	Asc.	1.1312	0.7610	-0.1965	221	---	---	17.5S	10.9W	14 05 2121 C.E.
14683	Dec 24 2121 C.E.	01:17:57	2496096.5541348	2121 Dec 24 01:22:13	000256	LNN	Dec.	1.2261	0.6238	-0.4067	215	---	---	24.6N	19.6W	13 10 2121 C.E.
14684	Jun 20 2122 C.E.	02:23:30	2496274.5996500	2122 Jun 20 02:27:45	000257	LPU	Asc.	-0.7177	1.5585	0.5242	318	160	---	24.1S	35.4W	15 04 2122 C.E.
14685	Dec 13 2122 C.E.	13:38:22	2496451.0683136	2122 Dec 13 13:42:41	000258	LPU	Dec.	0.4979	1.9350	0.9537	307	183	---	23.6N	153.9E	13 10 2122 C.E.
14686	Jun 09 2123 C.E.	05:02:09	2496628.7908227	2123 Jun 09 05:06:27	000260	LPU	Asc.	0.0406	2.8190	1.7489	374	236	106	22.8S	374.7W	14 03 2123 C.E.
14687	Dec 03 2123 C.E.	05:19:48	2496805.7207873	2123 Dec 03 05:24:08	000261	LTU	Dec.	-0.1756	2.5208	1.5507	318	204	091	21.8N	82.6W	14 09 2123 C.E.
14688	May 28 2124 C.E.	05:46:36	2496982.7406976	2124 May 28 05:50:59	000262	LPU	Asc.	0.7913	1.4357	0.3771	318	142	---	20.8S	87.2W	13 03 2124 C.E.
14689	Nov 21 2124 C.E.	19:42:58	2497160.3215037	2124 Nov 21 19:47:20	000263	LPU	Dec.	-0.8808	1.2434	0.2403	276	107	---	19.2N	60.8E	15 09 2124 C.E.
14690	Apr 18 2125 C.E.	10:14:22	2497307.5516462	2125 Apr 18 10:18:47	000264	LNN	Asc.	-1.1791	0.6890	-0.3001	218	---	---	11.9S	19.0W	13 02 2125 C.E.
14691	May 17 2125 C.E.	11:42:06	2497336.9875664	2125 May 17 11:46:31	000265	LNN	Asc.	1.4923	0.1249	-0.8850	101	---	---	18.0S	176.2W	13 03 2125 C.E.
14692	Oct 12 2125 C.E.	12:38:39	2497485.0268433	2125 Oct 12 12:43:05	000266	LNN	Dec.	1.2476	0.6062	-0.4676	227	---	---	8.6N	166.6E	14 08 2125 C.E.
14693	Apr 07 2126 C.E.	16:13:27	2497662.1760108	2126 Apr 07 16:17:55	000267	LTU	Asc.	-0.4346	2.0391	1.0818	306	186	042	7.3S	117.0E	14 01 2126 C.E.
14694	Oct 01 2126 C.E.	12:45:19	2497839.0314745	2126 Oct 01 12:49:48	000268	LPU	Asc.	0.5446	1.9013	0.8171	353	197	---	3.7N	166.0E	13 07 2126 C.E.
14695	Mar 28 2127 C.E.	08:35:47	2498016.8581866	2127 Mar 28 08:40:15	000269	LTU	Asc.	0.2664	2.3532	1.3849	318	202	082	2.6S	127.6E	14 01 2127 C.E.
14696	Sep 20 2127 C.E.	14:51:33	2498191.1913444	2127 Sep 20 14:56:05	000270	LPU	Dec.	-0.2007	2.5128	1.4673	356	224	094	1.3S	135.6E	12 07 2127 C.E.
14697	Mar 16 2128 C.E.	21:41:37	2498371.4038980	2128 Mar 16 21:46:08	000272	LNT	Asc.	0.1028	1.0087	-0.0090	261	---	---	2.3N	37.0E	15 13 2128 C.E.
14698	Sep 09 2128 C.E.	00:05:57	2498547.5041319	2128 Sep 09 00:10:31	000273	LPU	Dec.	-0.9265	1.1514	0.1644	268	086	---	6.1S	1.8W	13 06 2128 C.E.
14699	Feb 04 2129 C.E.	09:57:50	2498695.9515664	2129 Feb 04 10:02:23	000274	LNN	Asc.	-1.1958	0.7141	-0.3854	248	---	---	15.1N	146.3W	14 11 2129 C.E.
14700	Jul 31 2129 C.E.	08:19:55	2498872.8471641	2129 Jul 31 08:24:30	000275	LPU	Dec.	0.9070	1.1645	0.2227	257	085	---	17.3S	123.5W	13 05 2129 C.E.
14701	Jan 24 2130 C.E.	09:05:43	2499049.8789662	2130 Jan 24 09:10:20	000276	LPU	Asc.	-0.5173	1.9566	0.8621	354	199	---	18.7N	133.6W	13 11 2130 C.E.
14702	Jul 21 2130 C.E.	00:34:17	2499227.5238091	2130 Jul 21 00:38:53	000278	LPU	Dec.	0.1803	2.5115	1.5427	327	210	094	20.3S	6.9W	15 05 2130 C.E.
14703	Jan 13 2131 C.E.	12:45:19	2499404.0314728	2131 Jan 13 12:50:01	000279	LPU	Asc.	0.1915	2.5297	1.4842	349	220	093	21.7N	170.7E	13 11 2131 C.E.
14704	Jul 10 2131 C.E.	11:43:15	2499581.9883720	2131 Jul 10 11:47:54	000280	LPU	Dec.	-0.6107	1.7484	0.7266	325	180	---	22.8S	174.4W	14 04 2131 C.E.
14705	Jan 02 2132 C.E.	23:39:41	2499758.4858957	2132 Jan 02 23:44:23	000281	LPU	Asc.	0.8604	1.2750	0.2836	273	112	---	23.8N	6.0E	13 10 2132 C.E.
14706	May 30 2132 C.E.	00:38:10	2499906.5265029	2132 May 30 00:42:51	000282	LNN	Dec.	1.4380	0.2563	-0.8165	154	---	---	20.5S	9.8W	14 03 2132 C.E.
14707	Jun 28 2132 C.E.	15:40:50	2499936.1533582	2132 Jun 28 15:45:34	000283	LNN	Dec.	-1.4128	0.2981	-0.7659	165	---	---	24.5S	125.6E	14 04 2132 C.E.
14708	Nov 23 2132 C.E.	04:30:27	2500083.6878086	2132 Nov 23 04:35:10	000284	LNN	Asc.	-1.1707	0.6969	-0.2773	212	---	---	19.2N	70.7W	14 09 2132 C.E.
14709	Dec 22 2132 C.E.	14:55:06	2500113.1215975	2132 Dec 22 14:59:50	000284	LNN	Asc.	1.4873	0.1138	-0.8560	090	---	---	24.9N	135.7E	14 10 2132 C.E.
14710	May 19 2133 C.E.	02:11:34	2500260.5913637	2133 May 19 02:16:20	000285	LPU	Dec.	0.6688	1.6554	0.6069	328	172	---	19.2S	33.5W	13 03 2133 C.E.
14711	Nov 12 2133 C.E.	17:45:22	2500438.2398410	2133 Nov 12 17:50:06	000286	LPU	Asc.	-0.5157	1.9204	0.9035	322	189	---	17.4N	89.9E	15 09 2133 C.E.
14712	May 08 2134 C.E.	10:05:54	2500614.9207582	2134 May 08 10:10:43	000287	LTU	Dec.	-0.1153	2.6448	1.6483	338	219	099	17.2S	152.4W	13 02 2134 C.E.
14713	Nov 02 2134 C.E.	00:29:31	2500792.5204966	2134 Nov 02 00:34:18	000289	LPU	Asc.	0.2022	2.5223	1.4522	363	226	093	14.8N	11.6W	14 08 2134 C.E.
14714	Apr 28 2135 C.E.	00:21:44	2500969.1505940	2135 Apr 28 00:26:34	000290	LPU	Dec.	-0.8344	1.3052	0.3485	270	115	---	14.7S	6.4W	14 02 2135 C.E.
14715	Oct 22 2135 C.E.	01:01:12	2501146.5425048	2135 Oct 22 01:06:04	000291	LPU	Asc.	0.9242	1.2086	0.1166	307	083	---	11.6N	19.5W	14 08 2135 C.E.
14716	Mar 18 2136 C.E.	07:49:03	2501294.8273337	2136 Mar 18 07:53:55	000292	LNN	Dec.	1.0778	0.8708	-0.1101	236	---	---	1.7N	114.8W	14 13 2136 C.E.
14717	Apr 16 2136 C.E.	17:03:50	2501324.2109904	2136 Apr 16 17:08:42	000292	LNN	Dec.	-1.5240	0.0398	-0.9167	053	---	---	11.8S	103.3E	15 01 2136 C.E.
14718	Sep 10 2136 C.E.	12:00:15	2501471.0001693	2136 Sep 10 12:05:07	000293	LNN	Asc.	-1.2133	0.6454	-0.3817	222	77	---	5.7S	179.7E	12 06 2136 C.E.
14719	Mar 07 2137 C.E.	19:08:48	2501649.2977758	2137 Mar 07 19:13:41	000295	LTU	Dec.	0.3992	2.1442	1.1071	339	206	050	5.3N	75.7E	15 12 2137 C.E.
14720	Aug 30 2137 C.E.	23:19:09	2501825.4716277	2137 Aug 30 23:24:06												

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase			Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Minutes Tot.	Lat.	Lon.	Day	Month	Year
14767	Aug 30 2156 C.E.	23:14:55	2508765.4686929	2156 Aug 30 23:20:37	000342	LTU	Asc.	0.2569	2.3595	1.4132	313	198	084	8.3S	11.3E	14 06 2156	C.E.
14768	Feb 24 2157 C.E.	06:10:52	2508942.7575426	2157 Feb 24 06:16:35	000343	LPU	Dec.	-0.9867	1.0950	0.0008	294	007	---	8.6N	89.9W	14 12 2157	C.E.
14769	Aug 20 2157 C.E.	15:40:51	2509120.1533659	2157 Aug 20 15:46:35	000344	LPU	Asc.	0.9992	1.0071	0.0417	249	019	---	11.3S	125.2E	14 06 2157	C.E.
14770	Jan 14 2158 C.E.	18:24:08	2509267.2667557	2158 Jan 14 18:29:52	000345	LNN	Dec.	-1.2274	0.6184	-0.4065	213	---	---	22.3N	86.5E	13 11 2158	C.E.
14771	Jul 11 2158 C.E.	15:50:04	2509445.1597731	2158 Jul 11 15:55:50	000346	LPU	Asc.	-0.8859	1.2526	0.2128	298	108	---	22.8S	124.2E	14 04 2158	C.E.
14772	Jan 04 2159 C.E.	07:13:32	2509621.8010698	2159 Jan 04 07:19:20	000347	LPU	Dec.	-0.5061	1.9190	0.9396	306	181	---	23.2N	107.2W	13 10 2159	C.E.
14773	Jun 30 2159 C.E.	17:54:21	2509799.2460735	2159 Jun 30 18:00:08	000348	LTU	Asc.	-0.1322	2.6505	1.5810	373	234	102	23.2S	92.4E	14 04 2159	C.E.
14774	Dec 24 2159 C.E.	22:54:20	2509976.4543947	2159 Dec 24 23:00:08	000349	LTU	Dec.	-0.1619	2.5478	1.5738	319	205	092	23.2N	16.2E	14 10 2159	C.E.
14775	Jun 18 2160 C.E.	19:04:19	2510153.2946641	2160 Jun 18 19:10:11	000350	LPU	Asc.	-0.6280	1.7314	0.6806	335	181	---	22.8S	74.3E	14 04 2160	C.E.
14776	Dec 13 2160 C.E.	12:44:28	2510331.0308764	2160 Dec 13 12:50:18	000351	LPU	Dec.	-0.8650	1.2769	0.2648	281	112	---	22.3N	167.4E	14 10 2160	C.E.
14777	May 09 2161 C.E.	16:32:09	2510478.1889900	2161 May 09 16:38:01	000352	LNN	Asc.	-1.2766	0.5028	-0.4753	188	---	---	18.8S	110.9E	14 02 2161	C.E.
14778	Jun 08 2161 C.E.	02:03:02	2510507.5854382	2161 Jun 08 02:08:54	000352	LNN	Asc.	1.3475	0.3853	-0.6142	172	---	---	21.5S	30.9W	13 03 2161	C.E.
14779	Nov 03 2161 C.E.	03:39:55	2510655.6527164	2161 Nov 03 03:45:48	000353	LNN	Dec.	-1.3226	0.4737	-0.6103	204	---	---	16.3N	59.4W	14 08 2161	C.E.
14780	Apr 29 2162 C.E.	08:11:13	2510832.8411280	2162 Apr 29 08:17:07	000354	LPU	Dec.	-0.5279	1.8643	0.9139	299	175	---	15.1S	123.6W	14 02 2162	C.E.
14781	Oct 23 2162 C.E.	03:18:02	2511009.6375282	2162 Oct 23 03:23:58	000355	LPU	Dec.	-0.5279	1.7396	0.6505	345	180	---	11.9N	53.6W	13 08 2162	C.E.
14782	Apr 19 2163 C.E.	00:43:36	2511187.5302766	2163 Apr 19 00:49:31	000356	LTU	Asc.	0.1858	2.5001	1.5338	322	206	092	10.9S	11.0W	15 02 2163	C.E.
14783	Oct 12 2163 C.E.	05:45:55	2511363.5455713	2163 Oct 12 05:51:55	000357	LTU	Dec.	-0.1026	2.6928	1.6472	356	226	101	7.2N	89.8W	13 08 2163	C.E.
14784	Apr 07 2164 C.E.	13:28:36	2511542.0615282	2164 Apr 07 13:34:33	000358	LPU	Asc.	0.9479	1.1278	0.1097	275	076	---	6.3S	158.6E	14 01 2164	C.E.
14785	Sep 30 2164 C.E.	15:34:32	2511718.1489831	2164 Sep 30 15:40:32	000359	LPU	Dec.	-0.8210	1.3450	0.3583	282	125	---	2.4N	124.1E	13 07 2164	C.E.
14786	Feb 26 2165 C.E.	01:38:00	2511866.5680568	2165 Feb 26 01:44:00	000360	LNN	Asc.	-1.2329	0.6448	-0.4521	237	---	---	7.6N	21.7W	14 12 2165	C.E.
14787	Aug 21 2165 C.E.	23:28:18	2512043.5455713	2165 Aug 21 23:34:20	000361	LNN	Dec.	-1.0417	0.9194	-0.0265	235	---	---	10.7S	8.4E	14 06 2165	C.E.
14788	Sep 20 2165 C.E.	06:59:15	2512072.7911473	2165 Sep 20 07:05:17	000361	LNN	Dec.	-1.4858	0.1074	-0.8443	087	---	---	2.4S	106.0W	13 07 2165	C.E.
14789	Feb 15 2166 C.E.	01:05:37	2512220.5455713	2166 Feb 15 01:11:40	000362	LPU	Dec.	-0.5402	1.9110	0.8234	350	195	---	12.2N	13.1W	14 12 2166	C.E.
14790	Aug 11 2166 C.E.	15:11:03	2512398.7326776	2166 Aug 11 15:17:05	000363	LTU	Dec.	0.3273	2.2457	1.2690	324	203	073	14.8S	133.5E	14 05 2166	C.E.
14791	Feb 04 2167 C.E.	05:35:27	2512574.7329506	2167 Feb 04 05:41:34	000365	LTU	Asc.	0.1772	2.5518	1.5144	346	219	094	16.4N	80.4W	13 11 2167	C.E.
14792	Aug 01 2167 C.E.	01:22:52	2512752.5165497	2167 Aug 01 01:28:57	000366	LTU	Dec.	-0.4536	2.0408	1.0109	341	204	017	18.5S	19.0W	15 05 2167	C.E.
14793	Jan 24 2168 C.E.	17:11:23	2512929.2167390	2168 Jan 24 17:17:30	000367	LPU	Asc.	0.8487	1.2941	0.3075	273	115	---	20.0N	105.2E	14 11 2168	C.E.
14794	Jul 20 2168 C.E.	04:32:42	2513106.6893719	2168 Jul 20 04:38:50	000368	LNN	Asc.	-1.2454	0.6066	-0.4603	229	---	---	21.6S	66.4W	14 05 2168	C.E.
14795	Dec 14 2168 C.E.	21:53:15	2513254.4119826	2168 Dec 14 21:59:24	000369	LNN	Asc.	-1.1945	0.6565	-0.3239	207	---	---	22.1N	30.6E	14 10 2168	C.E.
14796	Jan 13 2169 C.E.	08:37:42	2513283.8595169	2169 Jan 13 08:43:52	000369	LNN	Asc.	1.4793	0.1288	-0.8418	095	---	---	22.9N	122.2W	14 11 2169	C.E.
14797	Jun 09 2169 C.E.	15:50:56	2513431.1603681	2169 Jun 09 15:57:07	000370	LPU	Dec.	-0.8158	1.3807	0.3418	307	133	---	22.2S	122.3E	13 03 2169	C.E.
14798	Dec 04 2169 C.E.	10:25:47	2513608.9345693	2169 Dec 04 10:31:56	000371	LPU	Dec.	-0.5487	1.8649	0.8377	323	185	---	21.8N	158.8W	14 09 2169	C.E.
14799	May 30 2170 C.E.	00:49:04	2513785.5340715	2170 May 30 00:55:19	000372	LTU	Dec.	-0.0174	2.8189	1.8331	335	218	102	21.7S	12.8W	13 03 2170	C.E.
14800	Nov 23 2170 C.E.	16:10:08	2513963.1736982	2170 Nov 23 16:16:19	000373	LTU	Asc.	0.1554	2.6135	1.5332	367	229	098	20.6N	114.0E	15 09 2170	C.E.
14801	May 19 2171 C.E.	15:50:41	2514140.1601930	2171 May 19 15:56:55	000374	LPU	Dec.	-0.7166	1.5176	0.5682	283	144	---	20.5S	121.3E	13 03 2171	C.E.
14802	Nov 12 2171 C.E.	06:03:46	2514317.1692874	2171 Nov 12 06:09:52	000375	LPU	Asc.	0.8584	1.3324	0.2346	318	116	---	18.5N	114.8E	14 09 2171	C.E.
14803	Apr 09 2172 C.E.	00:02:37	2514465.5018121	2172 Apr 09 00:08:53	000376	LNN	Dec.	-1.1548	0.7289	-0.2509	220	---	---	6.7S	0.3E	15 01 2172	C.E.
14804	May 08 2172 C.E.	08:46:59	2514494.8659597	2172 May 08 08:53:15	000376	LNN	Dec.	-1.4274	0.2158	-0.7383	123	---	---	18.7S	133.1W	14 02 2172	C.E.
14805	Oct 02 2172 C.E.	02:55:26	2514641.6218252	2172 Oct 02 03:01:42	000377	LNN	Asc.	-1.3097	0.4682	-0.5581	191	---	---	2.7N	45.9W	13 07 2172	C.E.
14806	Oct 31 2172 C.E.	17:02:57	2514671.2103827	2172 Oct 31 17:09:14	000377	LNN	Asc.	1.5197	0.1017	-0.9618	096	---	---	15.7N	99.5E	13 08 2172	C.E.
14807	Mar 29 2173 C.E.	10:56:05	2514819.9566086	2173 Mar 29 11:02:21	000378	LPU	Dec.	-0.4662	2.0216	0.9840	337	200	---	3.2S	162.7W	14 01 2173	C.E.
14808	Sep 21 2173 C.E.	14:43:59	2514996.1138720	2173 Sep 21 14:50:19	000379	LPU	Dec.	-0.5272	1.8762	0.9048	307	180	---	0.8S	137.5E	12 07 2173	C.E.
14809	Mar 18 2174 C.E.	14:24:29	2515174.1003387	2174 Mar 18 14:30:48	000380	LTU	Dec.	-0.2605	2.4237	1.3372	369	226	085	0.5N	145.7E	14 13 2174	C.E.
14810	Sep 11 2174 C.E.	07:01:40	2515350.7928273	2174 Sep 11 07:08:02	000382	LTU	Asc.	0.1982	2.4683	1.5198	315	201	090	4.3S	106.3W	13 06 2174	C.E.
14811	Mar 07 2175 C.E.	13:53:29	2515528.0788079	2175 Mar 07 13:59:52	000383	LPU	Dec.	-0.9607	1.1407	0.0505	298	055	---	4.4N	153.9E	13 12 2175	C.E.
14812	Aug 31 2175 C.E.	23:12:39	2515705.4671153	2175 Aug 31 23:19:02	000384	LPU	Dec.	0.9385	1.1208	0.1509	261	076	---	7.5S	11.5E	14 06 2175	C.E.
14813	Jan 26 2176 C.E.	02:57:14	2515852.6230793	2176 Jan 26 03:03:39	000385	LNN	Asc.	-1.2292	0.6133	-0.4079	211	---	---	19.9N	40.9W	13 11 2176	C.E.
14814	Jul 21 2176 C.E.	22:30:25	2516030.3477943	2176 Jul 21 22:36:51	000386	LPU	Dec.	-0.9707	1.0987	0.0555	285	056	---	21.0S	24.4E	15 05 2176	C.E.
14815	Jan 14 2177 C.E.	16:02:28	2516207.1683778	2177 Jan 14 16:08:55	000387	LPU	Dec.	-0.5099	1.9113	0.9334	305	180	---	21.6N	121.8E	14 11 2177	C.E.
14816	Jul 11 2177 C.E.	00:18:53	2516384.5131191	2177 Jul 11 00:25:22	000388	LTU	Dec.	-0.2199	2.4897	1.4200	371	230	093	22.2S	3.2W	14 04 2177	C.E.
14817	Jan 04 2178 C.E.	07:43:45	2516561.8220454	2178 Jan 04 07:50:13	000389	LTU	Dec.	-0.1570	2.5575	1.5821	320	206	093	22.5N	114.8W	14 10 2178	C.E.
14818	Jun 30 2178 C.E.	01:42:08	2516738.5709299	2178 Jun 30 01:48:40	000390	LPU	Dec.	-0.5438	1.8842	0.8366	342	195	---	22.6S	24.6W	13 04 2178	C.E.
14819	Dec 24 2178 C.E.	21:19:48	2516916.3887512	2178 Dec 24 21:26:18	000391	LPU	Dec.	-0.8614	1.2854	0.2696	283	114	---	22.5N	39.8E	15 10 2178	C.E.
14820	May 21 2179 C.E.	00:02:37	2517062.5081826	2179 May 21 00:09:09	000392	LNN	Asc.	-1.3346	0.3957	-0.5774	168	---	---	21.4S	1.6W	13 03 2179	C.E.
14821	Jun 19 2179 C.E.	09:09:38	2517092.8816854	2179 Jun 19 09:16:10	000392	LNN	Asc.	1.2701	0.5251	-0.4699	197	---	---	22.2S	137.1W	13 04 2179	C.E.
14822	Nov 14 2179 C.E.	11:21:31	2517240.9732724	2179 Nov 14 11:28:04	000393	LNN	Dec.	-1.3504	0.4249	-0.6637	195	---	---	19.5N	174.5W	14 09 2179	C.E.
14823	May 09 2180 C.E.	15:59:23	2517418.1662348	2180 May 09 16:05:58	000395	LPU	Dec.	-0.5840	1.7600	0.8125	294	167	---	18.2S	119.2E	13 02 2180	C.E.
14824	Nov 02 2180 C.E.	10:49:11	2517594.9508195	2180 Nov 02 10:55:47	000396	LPU	Dec.	0.6669	1.6804	0.5893	341	173	---	15.6N	166.6W	13 08 2180	C.E.
14825	Apr 29 2181 C.E.	08:33:30	2517772.5659887	2181 Apr 29 08:40:06	000397	LTU	Dec.	-0.1345	2.5939	1.6282	323	208	096	14.5S	129.0W	14 02 2181	C.E.
14826	Oct 22 2181 C.E.	13:28:42	2														

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse			Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar	Date on the Hebrew Calendar	
	Pen.	Par.	Lat.									Lon.						
14874	Oct 12 2201	C. E.	23:06:41	2525243.4629711	2201 Oct 12 23:14:05	000445	LNN	Dec.	-1.4001	0.2669	-0.6893	135	---	6.2N	10.4E	14 08 2201	C. E.	
14875	Mar 09 2202	C. E.	16:44:09	2525391.1973275	2202 Mar 09 16:51:36	000446	LPU	Asc.	-0.5824	1.8289	0.7507	344	188	4.1N	111.4E	14 13 2202	C. E.	
14876	Sep 03 2202	C. E.	05:58:28	2525568.7489340	2202 Sep 03 06:05:54	000448	LPU	Dec.	0.4622	2.0032	1.0164	320	199	020	7.3S	89.8W	14 06 2202	C. E.
14877	Feb 26 2203	C. E.	22:13:09	2525745.4257937	2203 Feb 26 22:20:40	000449	LTU	Asc.	0.1500	2.5965	1.5693	344	219	096	8.9N	29.9E	13 12 2203	C. E.
14878	Aug 23 2203	C. E.	15:07:41	2525923.1303341	2203 Aug 23 15:15:09	000450	LTU	Dec.	-0.3039	2.3204	1.2807	352	219	078	11.8S	133.9E	14 06 2203	C. E.
14879	Feb 16 2204	C. E.	10:33:54	2526099.9402053	2204 Feb 16 10:41:25	000451	LPU	Asc.	0.8285	1.3277	0.3477	275	120	---	13.5N	154.8W	13 12 2204	C. E.
14880	Aug 11 2204	C. E.	17:29:51	2526277.2290663	2204 Aug 11 17:37:23	000452	LNN	Dec.	-1.0819	0.9088	-0.1624	273	---	---	16.0S	99.1E	14 05 2204	C. E.
14881	Jan 06 2205	C. E.	15:27:22	2526425.1439996	2205 Jan 06 15:34:55	000453	LNN	Asc.	-1.2079	0.6341	-0.3508	205	---	---	21.3N	129.5E	15 10 2205	C. E.
14882	Feb 05 2205	C. E.	02:15:54	2526454.5943757	2205 Feb 05 02:23:28	000454	LNN	Asc.	1.4698	1.1459	-0.8239	101	---	---	17.5N	30.3W	14 11 2205	C. E.
14883	Jul 02 2205	C. E.	05:22:18	2526601.7238164	2205 Jul 02 05:29:53	000455	LPU	Dec.	0.9713	1.0913	0.0605	280	058	---	22.1S	79.5W	13 04 2205	C. E.
14884	Dec 27 2205	C. E.	03:21:09	2526779.6396899	2205 Dec 27 03:28:44	000456	LPU	Asc.	-0.5665	1.8366	0.8009	324	183	---	22.8N	50.2W	15 10 2205	C. E.
14885	Jun 21 2206	C. E.	15:20:48	2526956.1394420	2206 Jun 21 15:28:27	000457	LTU	Dec.	0.1626	2.5481	1.5712	331	213	095	23.3S	130.4E	14 04 2206	C. E.
14886	Dec 16 2206	C. E.	08:11:28	2527133.8412968	2206 Dec 16 08:19:04	000458	LTU	Asc.	0.1275	2.6686	1.5803	370	230	100	23.4N	124.2W	14 10 2206	C. E.
14887	Jun 11 2207	C. E.	06:59:59	2527310.7916549	2207 Jun 11 07:07:38	000459	LPU	Dec.	-0.5811	1.7636	0.8194	295	167	---	23.6S	105.1W	13 03 2207	C. E.
14888	Dec 05 2207	C. E.	07:37:41	2527487.8178406	2207 Dec 05 07:45:23	000461	LPU	Asc.	0.8170	1.4103	0.3086	324	131	---	23.0N	117.1W	13 09 2207	C. E.
14889	May 01 2208	C. E.	15:41:24	2527664.1537478	2208 May 01 15:49:06	000462	LNN	Dec.	1.2583	0.5389	-0.4406	194	---	---	14.0S	124.5E	14 02 2208	C. E.
14890	May 31 2208	C. E.	00:02:53	2527665.5019995	2208 May 31 00:10:35	000462	LNN	Dec.	-1.3102	0.4306	-0.5230	170	---	---	23.2S	1.6W	14 03 2208	C. E.
14891	Oct 24 2208	C. E.	18:28:20	2527812.2696705	2208 Oct 24 18:36:03	000463	LNN	Asc.	-1.3788	0.3412	-0.6848	164	---	---	10.7N	79.5E	13 08 2208	C. E.
14892	Nov 23 2208	C. E.	08:54:13	2527841.8709876	2208 Nov 23 09:01:56	000463	LNN	Asc.	1.4659	0.2003	-0.8631	132	---	---	21.6N	137.5W	13 09 2208	C. E.
14893	Apr 21 2209	C. E.	02:04:35	2527990.5865159	2209 Apr 21 02:12:18	000464	LPU	Dec.	0.5617	1.8465	0.8088	332	188	---	11.2S	31.2W	15 02 2209	C. E.
14894	Oct 14 2209	C. E.	06:42:07	2528166.9725333	2209 Oct 14 06:49:53	000465	LPU	Asc.	-0.6119	1.7215	0.7488	299	167	---	7.5N	103.7W	13 08 2209	C. E.
14895	Apr 10 2210	C. E.	05:06:02	2528344.7125269	2210 Apr 10 05:13:47	000466	LTU	Dec.	-0.1736	2.5813	1.4986	373	231	097	7.9S	76.2W	14 01 2210	C. E.
14896	Oct 03 2210	C. E.	22:56:01	2528521.4555633	2210 Oct 03 23:03:48	000468	LTU	Asc.	0.0988	2.6538	1.6994	318	205	097	4.1N	13.2E	14 07 2210	C. E.
14897	Mar 30 2211	C. E.	04:55:08	2528698.7049503	2211 Mar 30 05:02:57	000469	LPU	Dec.	-0.8882	1.2690	0.1883	308	104	---	4.2S	73.0E	13 01 2211	C. E.
14898	Sep 23 2211	C. E.	14:31:41	2528876.1053351	2211 Sep 23 14:39:31	000470	LPU	Asc.	0.8314	1.3226	0.3423	279	121	---	10.7N	139.9W	14 07 2211	C. E.
14899	Feb 17 2212	C. E.	19:55:26	2529023.3301588	2212 Feb 17 20:03:17	000471	LNN	Dec.	1.2415	0.5863	-0.4260	205	---	---	13.2N	65.1E	13 12 2212	C. E.
14900	Mar 18 2212	C. E.	08:58:52	2529052.9742130	2212 Mar 18 09:06:42	000471	LNN	Dec.	-1.5476	0.0363	-0.9991	056	---	---	0.4S	133.4W	13 13 2212	C. E.
14901	Aug 13 2212	C. E.	11:54:17	2529200.9960286	2212 Aug 13 12:02:09	000472	LNN	Asc.	-1.1348	0.8016	-0.2495	253	---	---	15.5S	176.8W	14 05 2212	C. E.
14902	Feb 06 2213	C. E.	09:36:39	2529377.5004477	2213 Feb 06 09:44:33	000474	LPU	Dec.	-0.5218	1.8872	0.9138	303	178	---	16.1N	140.5W	13 11 2213	C. E.
14903	Aug 02 2213	C. E.	13:08:23	2529555.4074929	2213 Aug 02 13:16:19	000475	LTU	Asc.	-0.3946	2.1700	1.0989	363	217	051	18.0S	164.7E	13 05 2213	C. E.
14904	Jan 27 2214	C. E.	01:22:49	2529732.5575104	2214 Jan 27 01:30:44	000476	LTU	Dec.	-0.1479	2.5750	1.5980	321	207	094	18.5N	17.7W	14 11 2214	C. E.
14905	Jul 22 2214	C. E.	14:58:56	2529909.1242633	2214 Jul 22 15:06:55	000477	LTU	Asc.	0.3734	2.1942	1.1520	351	214	060	19.9S	136.9E	13 05 2214	C. E.
14906	Jan 16 2215	C. E.	14:32:01	2530087.1055619	2215 Jan 16 14:39:58	000478	LTU	Dec.	-0.8578	1.2951	0.2734	285	115	---	20.2N	144.0E	14 11 2215	C. E.
14907	Jun 12 2215	C. E.	14:51:57	2530234.1194137	2215 Jun 12 14:59:56	000479	LNN	Asc.	-1.4594	0.1623	-0.8020	109	---	---	24.6S	137.1E	13 03 2215	C. E.
14908	Jul 11 2215	C. E.	23:22:22	2530263.4738966	2215 Jul 11 23:30:23	000480	LNN	Asc.	1.1114	0.8125	-0.1750	236	---	---	21.0S	10.6E	13 04 2215	C. E.
14909	Dec 07 2215	C. E.	03:04:03	2530411.6278096	2215 Dec 07 03:12:04	000481	LNN	Dec.	1.3891	0.3579	-0.7384	181	---	---	23.7N	48.4W	14 09 2215	C. E.
14910	Jun 01 2216	C. E.	07:19:33	2530588.8052485	2216 Jun 01 07:27:35	000482	LPU	Asc.	-0.7097	1.5271	0.5840	282	144	---	22.8S	110.4W	14 03 2216	C. E.
14911	Nov 25 2216	C. E.	02:14:53	2530765.5936636	2216 Nov 25 02:22:56	000483	LPU	Dec.	0.7144	1.5947	0.5007	335	162	---	21.3N	37.1E	13 09 2216	C. E.
14912	May 21 2217	C. E.	23:53:31	2530943.4954936	2217 May 22 00:01:32	000484	LTU	Asc.	0.0167	2.8101	1.8445	326	211	100	20.3S	0.9W	15 03 2217	C. E.
14913	Nov 14 2217	C. E.	05:20:56	2531119.7228674	2217 Nov 14 05:29:03	000486	LTU	Dec.	-0.0100	2.8625	1.8172	354	226	103	18.8N	84.2W	13 09 2217	C. E.
14914	May 11 2218	C. E.	11:57:27	2531297.9002237	2218 May 11 12:05:32	000487	LPU	Asc.	0.7980	1.4037	0.3841	300	137	---	17.1S	179.9E	14 02 2218	C. E.
14915	Nov 03 2218	C. E.	15:52:17	2531474.1613047	2218 Nov 03 16:00:25	000488	LPU	Dec.	-0.7113	1.5466	0.5591	293	152	---	14.3N	117.9E	13 08 2218	C. E.
14916	Apr 01 2219	C. E.	00:10:04	2531622.5069299	2219 Apr 01 00:18:13	000489	LNN	Asc.	-1.3321	0.4588	-0.6304	204	---	---	5.3S	1.8W	14 01 2219	C. E.
14917	Sep 24 2219	C. E.	22:47:41	2531799.4497749	2219 Sep 24 22:55:50	000490	LNN	Dec.	1.2116	0.6126	-0.3432	199	---	---	10.7N	15.8E	14 07 2219	C. E.
14918	Oct 24 2219	C. E.	07:21:23	2531828.8065117	2219 Oct 24 07:29:32	000490	LNN	Dec.	-1.3663	0.3303	-0.6284	149	---	---	1.2N	113.9W	13 08 2219	C. E.
14919	Mar 20 2220	C. E.	00:24:27	2531976.5169777	2220 Mar 20 00:32:40	000492	LPU	Asc.	-0.6114	1.7729	0.7000	339	183	---	0.3S	4.4W	13 01 2220	C. E.
14920	Sep 13 2220	C. E.	13:28:38	2532154.0615482	2220 Sep 13 13:36:49	000493	LPU	Asc.	0.5228	1.8949	0.9024	317	187	---	3.1S	156.7E	14 07 2220	C. E.
14921	Mar 09 2221	C. E.	06:24:04	2532330.7667165	2221 Mar 09 06:32:21	000494	LTU	Asc.	0.1290	2.6322	1.6107	343	220	098	4.7N	93.4W	13 13 2221	C. E.
14922	Sep 02 2221	C. E.	22:05:26	2532508.4204377	2221 Sep 02 22:31:39	000495	LTU	Dec.	-0.2348	2.4499	1.4049	357	223	090	7.9S	28.7E	15 06 2221	C. E.
14923	Feb 26 2222	C. E.	19:09:18	2532685.2981290	2222 Feb 26 19:17:35	000496	LPU	Asc.	0.8137	1.3531	0.3768	276	124	---	9.5N	76.1E	14 12 2222	C. E.
14924	Aug 23 2222	C. E.	00:03:49	2532862.5026523	2222 Aug 23 00:12:07	000498	LNT	Dec.	-1.0043	0.0526	-0.0211	289	---	---	12.5S	0.1E	14 06 2222	C. E.
14925	Jan 18 2223	C. E.	00:14:11	2533010.5098507	2223 Jan 18 00:22:30	000499	LNN	Asc.	-1.2145	0.6229	-0.3637	204	---	---	19.5N	1.3W	15 11 2223	C. E.
14926</																		

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse			Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse			Eclipse Phase			Greatest in Zenith		Hebrew Date on the Creation Calendar							
	Year	Month	Day	Time	Date	Time	Date	Time	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year				
14981	Dec	15	2244	C.E.	01:16:01	2541012.5527875	2244	Dec 15	01:25:18	000557	LNN	Asc.	1.4340	0.2578	-0.8036	148	---	---	24.6N	20.6W	13	10	2244	C.E.
14982	Dec	15	2245	C.E.	16:34:24	2541161.1905515	2245	May 12	16:43:40	000558	LPU	Dec.	0.6856	1.6195	0.5811	322	167	---	17.6S	110.8E	15	02	2245	C.E.
14983	Nov	04	2245	C.E.	23:13:56	2541337.6800084	2245	Nov 04	23:23:15	000559	LPU	Asc.	-0.6707	1.6144	0.6401	292	157	---	14.9N	7.6E	13	08	2245	C.E.
14984	May	01	2246	C.E.	19:10:49	2541515.2991820	2246	May 01	19:20:09	000561	LTU	Dec.	-0.0575	2.7921	1.7137	375	235	105	15.2S	71.6E	14	02	2246	C.E.
14985	Oct	25	2246	C.E.	15:19:15	2541692.1383712	2246	Oct 25	15:28:36	000562	LPU	Asc.	0.0236	2.7950	1.8340	319	207	099	12.1N	126.2E	14	08	2246	C.E.
14986	Apr	20	2247	C.E.	19:25:00	2541869.3090243	2247	Apr 20	19:34:23	000563	LPU	Dec.	-0.7870	1.4496	0.3791	321	142	---	12.2S	68.2E	14	02	2247	C.E.
14987	Oct	15	2247	C.E.	06:16:03	2542046.7611491	2247	Oct 15	06:25:27	000565	LPU	Asc.	0.7471	1.4830	0.4913	292	146	---	9.0N	97.9W	14	08	2247	C.E.
14988	Mar	10	2248	C.E.	12:35:19	2542194.0245282	2248	Mar 10	12:44:45	000566	LNN	Dec.	1.2717	0.5256	-0.4762	194	---	---	5.0N	174.3E	13	13	2248	C.E.
14989	Apr	09	2248	C.E.	00:33:00	2542223.5229173	2248	Apr 09	00:42:26	000566	LNN	Dec.	-1.4663	0.1792	-0.8437	121	---	---	8.8S	8.5W	13	01	2248	C.E.
14990	Sep	04	2248	C.E.	01:29:29	2542371.5621436	2248	Sep 04	01:38:56	000567	LNN	Asc.	-1.2856	0.5296	-0.5309	212	---	---	8.1S	22.0W	14	06	2248	C.E.
14991	Oct	03	2248	C.E.	15:42:31	2542401.1545283	2248	Oct 03	15:51:59	000567	LNN	Asc.	1.5364	0.0612	-0.9830	073	---	---	5.5N	120.9E	15	07	2248	C.E.
14992	Feb	28	2249	C.E.	02:55:16	2542548.6217104	2249	Feb 28	03:04:44	000568	LPU	Dec.	0.5480	1.8362	0.8685	300	174	---	8.5N	40.5W	14	12	2249	C.E.
14993	Aug	24	2249	C.E.	02:12:43	2542725.5921603	2249	Aug 24	02:22:13	000570	LPU	Dec.	-0.5572	1.8729	0.7991	351	195	---	11.5S	32.2W	14	06	2249	C.E.
14994	Feb	17	2250	C.E.	18:49:00	2542903.2840261	2250	Feb 17	18:58:30	000571	LTU	Dec.	-0.1290	2.6096	1.6327	322	208	095	11.8N	81.1E	15	12	2250	C.E.
14995	Aug	13	2250	C.E.	04:30:05	2543079.5835558	2250	Aug 13	04:39:39	000572	LPU	Asc.	0.2108	2.4908	1.4521	356	225	093	14.5S	66.3W	13	05	2250	C.E.
14996	Feb	07	2251	C.E.	07:36:04	2543257.8167115	2251	Feb 07	07:45:37	000574	LPU	Dec.	-0.8497	1.3118	0.2864	289	118	---	14.7N	111.0W	15	11	2251	C.E.
14997	Aug	02	2251	C.E.	13:43:39	2543434.0719770	2251	Aug 02	13:53:14	000575	LPU	Asc.	0.9548	1.0972	0.1148	264	069	---	16.9S	155.4E	12	05	2251	C.E.
14998	Dec	28	2251	C.E.	19:03:12	2543582.2938865	2251	Dec 28	19:12:49	000576	LNN	Dec.	1.4131	0.3163	-0.7849	171	---	---	24.5N	74.6E	14	10	2251	C.E.
14999	Jun	22	2252	C.E.	22:23:49	2543759.4332090	2252	Jun 22	22:33:26	000577	LPU	Asc.	-0.8494	1.2697	0.3288	265	107	---	24.3S	24.8E	14	04	2252	C.E.
15000	Dec	16	2252	C.E.	18:09:00	2543936.2562517	2252	Dec 16	18:18:40	000579	LPU	Dec.	0.7406	1.5469	0.4523	331	154	---	24.0N	86.6E	14	10	2252	C.E.
15001	Jun	12	2253	C.E.	14:47:29	2544114.1163133	2253	Jun 12	14:57:08	000580	LTU	Dec.	-0.1210	2.6196	1.6521	327	211	098	23.3S	138.2E	14	03	2253	C.E.
15002	Dec	05	2253	C.E.	21:46:15	2544290.4071156	2253	Dec 05	21:56:01	000582	LTU	Dec.	0.0212	2.8411	1.7975	352	224	102	22.4N	31.0E	13	09	2253	C.E.
15003	Jun	02	2254	C.E.	02:14:55	2544464.8542053	2254	Jun 02	02:24:37	000583	LPU	Asc.	0.6670	1.6453	0.6233	318	170	---	21.5S	34.1W	15	03	2254	C.E.
15004	Nov	25	2254	C.E.	08:45:13	2544644.8647333	2254	Nov 25	08:54:58	000584	LPU	Dec.	-0.6696	1.6231	0.6355	296	159	---	20.0N	134.6W	13	09	2254	C.E.
15005	Apr	22	2255	C.E.	14:26:19	2544793.1016098	2255	Apr 22	14:36:05	000585	LNN	Asc.	-1.4232	0.2718	-0.8112	159	---	---	13.4S	142.8E	13	02	2255	C.E.
15006	May	22	2255	C.E.	06:23:27	2544822.7662887	2255	May 22	06:33:13	000586	LNN	Asc.	1.4629	0.2082	-0.8599	139	---	---	19.0S	96.5W	14	03	2255	C.E.
15007	Oct	16	2255	C.E.	14:54:35	2544970.1212404	2255	Oct 16	15:04:22	000587	LNN	Dec.	1.2958	0.4621	-0.5017	176	---	---	10.1N	132.4E	13	08	2255	C.E.
15008	Nov	15	2255	C.E.	00:14:47	2544999.5102715	2255	Nov 15	00:24:34	000587	LNN	Dec.	-1.3180	0.4213	-0.5425	167	---	---	16.9N	7.4W	14	09	2255	C.E.
15009	Apr	10	2256	C.E.	15:21:14	2545147.1397456	2256	Apr 10	15:31:03	000588	LPU	Asc.	-0.6904	1.6222	0.5607	328	167	---	8.8S	129.8E	13	01	2256	C.E.
15010	Oct	05	2256	C.E.	04:47:21	2545324.6995520	2256	Oct 05	04:57:10	000590	LPU	Dec.	0.6264	1.7109	0.7065	311	173	---	5.4N	74.9W	14	07	2256	C.E.
15011	Mar	30	2257	C.E.	22:26:50	2545501.1022819	2257	Mar 30	22:36:43	000591	LTU	Asc.	0.0687	2.7369	1.7273	340	220	100	4.0S	24.4E	13	01	2257	C.E.
15012	Sep	24	2257	C.E.	12:17:41	2545679.0122819	2257	Sep 24	12:27:31	000592	LTU	Dec.	-0.1124	2.6804	1.6240	363	229	101	0.5N	173.6E	14	07	2257	C.E.
15013	Mar	20	2258	C.E.	12:00:25	2545856.0002843	2258	Mar 20	12:10:18	000593	LPU	Asc.	0.7623	1.4359	0.4678	280	135	---	0.9N	178.0W	13	01	2258	C.E.
15014	Sep	13	2258	C.E.	13:29:57	2546033.0624607	2258	Sep 13	13:39:52	000595	LPU	Dec.	-0.8623	1.3160	0.2364	315	116	---	4.4S	156.8E	13	07	2258	C.E.
15015	Feb	08	2259	C.E.	17:41:43	2546181.2373070	2259	Feb 08	17:51:39	000596	LNN	Asc.	-1.2320	0.5917	-0.3968	200	---	---	13.8N	97.7E	15	12	2259	C.E.
15016	Mar	10	2259	C.E.	04:09:55	2546210.6735587	2259	Mar 10	04:19:52	000596	LNN	Asc.	1.4322	0.2132	-0.7531	122	---	---	5.7N	59.5W	14	13	2259	C.E.
15017	Aug	04	2259	C.E.	01:52:01	2546357.5777887	2259	Aug 04	02:01:58	000597	LNN	Dec.	1.1981	0.6707	-0.3513	226	---	---	16.2S	26.5W	13	05	2259	C.E.
15018	Sep	02	2259	C.E.	14:37:58	2546387.1097037	2259	Sep 02	14:47:56	000598	LNN	Dec.	-1.5668	0.0100	-1.0431	030	---	---	9.3S	140.9E	13	06	2259	C.E.
15019	Jan	29	2260	C.E.	04:45:21	2546535.6981630	2260	Jan 29	04:55:19	000599	LPU	Asc.	-0.5871	1.8029	0.7590	326	181	---	17.6N	68.3W	15	11	2260	C.E.
15020	Jul	23	2260	C.E.	13:07:08	2546712.0466718	2260	Jul 23	13:17:09	000600	LTU	Dec.	0.3867	2.1323	1.1643	318	197	059	19.5S	164.9E	13	05	2260	C.E.
15021	Jan	17	2261	C.E.	08:30:03	2546889.8542053	2261	Jan 17	08:40:03	000601	LTU	Asc.	0.1036	2.7158	1.6209	373	232	102	20.8N	125.1W	14	11	2261	C.E.
15022	Jul	13	2261	C.E.	05:26:14	2547066.7265452	2261	Jul 13	05:36:17	000603	LTU	Dec.	-0.3617	2.1644	1.2237	308	191	066	22.1S	79.9W	14	04	2261	C.E.
15023	Jan	06	2262	C.E.	07:34:55	2547243.0917113	2262	Jan 06	07:44:59	000604	LPU	Asc.	0.7832	1.4726	0.3703	328	142	---	23.2N	112.4W	13	10	2262	C.E.
15024	Jun	03	2262	C.E.	14:10:43	2547392.0907713	2262	Jun 03	14:20:47	000605	LNN	Dec.	1.4555	0.1783	-0.8036	116	---	---	20.9S	147.3E	14	03	2262	C.E.
15025	Jul	02	2262	C.E.	22:21:23	2547421.4315160	2262	Jul 02	22:31:29	000606	LNN	Dec.	-1.1089	0.8015	-0.1552	226	---	---	24.1S	25.8E	15	04	2262	C.E.
15026	Nov	26	2262	C.E.	18:56:47	2547568.2894283	2262	Nov 26	19:06:54	000607	LNN	Asc.	-1.4327	0.2416	-0.7828	138	---	---	19.6N	73.0E	13	09	2262	C.E.
15027	Dec	26	2262	C.E.	09:33:50	2547597.8948999	2262	Dec 26	09:43:57	000607	LNN	Asc.	1.4226	0.2778	-0.7818	153	---	---	24.7N	143.0E	13	10	2262	C.E.
15028	May	23	2263	C.E.	23:36:16	2547746.4835144	2263	May 23	23:46:22	000608	LPU	Dec.	0.7567	1.4892	0.4501	314	150	---	20.0S	5.4E	15	03	2263	C.E.
15029	Nov	16	2263	C.E.	07:42:03	2547922.8028643	2263	Nov 16	07:52:12	000609	LPU	Asc.	-0.6908	1.5779	0.6029	290	152	---	18.0N	119.2W	13	09	2263	C.E.
15030	May	12	2264	C.E.	01:58:38	2548100.5823873	2264	May 12	02:08:50	000611	LTU	Dec.	0.0121	2.8744	1.7980	375	236	106	18.2S	30.5W	14	02	2264	C.E.
15031	Nov	04	2264	C.E.	23:42:35	2548277.4879077	2264	Nov 04	23:52:47	000612	LTU	Asc.	-0.0038	2.8331	1.8686	320	207	099	15.7N	0.2E	14	08	2264	C.E.
15032	May	01	2265	C.E.	02:28:18	2548454.6029900	2265	May 01	02:38:33	000614	LPU	Dec.	-0.7261	1.5588	0.4935	328	159							

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar						
										Pen.	Par.	Lat.	Lon.	Day	Month	Year				
15088	Mar 01 2287 C.E.	00:18:41	2556428.5129802	2287	Mar 01	00:29:58	000678	LPU	Dec.	-0.8264	1.3554	0.3281	294	126	---	7.1N	2.0W	15 12	2287	C.E.
15089	Aug 24 2287 C.E.	04:23:46	2556604.6831738	2287	Aug 24	04:35:06	000679	LPU	Asc.	0.8094	1.3625	0.3831	284	128	---	10.4S	65.6W	13 06	2287	C.E.
15090	Jan 19 2288 C.E.	11:08:10	2556752.9640012	2288	Jan 19	11:19:29	000680	LNN	Dec.	-1.4316	0.2833	-0.8198	163	---	---	21.6N	164.1W	14 11	2288	C.E.
15091	Jul 14 2288 C.E.	13:20:07	2556930.0556380	2288	Jul 14	13:31:29	000682	LPU	Asc.	-0.9955	1.0019	0.0605	242	009	---	22.5S	161.9E	13 04	2288	C.E.
15092	Aug 12 2288 C.E.	20:04:05	2556959.3361643	2288	Aug 12	20:15:27	000682	LNN	Asc.	-1.4945	0.0876	-0.8566	079	---	---	13.1S	59.7E	14 05	2288	C.E.
15093	Jan 07 2289 C.E.	10:19:31	2557106.9302229	2289	Jan 07	10:30:55	000683	LPU	Dec.	0.7552	1.5189	0.4265	328	150	---	23.0N	153.3W	13 10	2289	C.E.
15094	Jul 04 2289 C.E.	05:24:58	2557284.7256765	2289	Jul 04	05:36:22	000685	LTU	Asc.	-0.2703	2.3478	1.3761	325	206	083	23.1S	79.9W	14 04	2289	C.E.
15095	Dec 27 2289 C.E.	14:34:55	2557461.1075780	2289	Dec 27	14:46:24	000686	LTU	Dec.	0.0364	2.8114	1.7714	349	223	101	23.3N	141.4E	12 10	2289	C.E.
15096	Jun 23 2290 C.E.	16:06:11	2557639.1709549	2290	Jun 23	16:17:36	000687	LPU	Asc.	-0.5172	1.9223	0.8961	334	195	---	22.9S	119.1E	14 04	2290	C.E.
15097	Dec 17 2290 C.E.	02:04:04	2557815.5861630	2290	Dec 17	02:15:34	000689	LPU	Dec.	-0.6473	1.6636	0.6769	297	163	---	22.7N	32.2W	13 10	2290	C.E.
15098	May 14 2291 C.E.	04:08:52	2557963.6728273	2291	May 14	04:20:22	000690	LNN	Asc.	-1.5580	0.0380	-1.0387	061	---	---	20.0S	63.3W	14 02	2291	C.E.
15099	Jun 12 2291 C.E.	19:36:08	2557993.3167647	2291	Jun 12	19:47:38	000690	LNN	Asc.	1.3123	0.4841	-0.5832	207	---	---	22.0S	66.0E	14 03	2291	C.E.
15100	Nov 07 2291 C.E.	07:30:09	2558140.8126098	2291	Nov 07	07:41:41	000692	LNN	Dec.	-1.3563	0.3554	-0.6169	156	---	---	17.6N	117.0W	14 08	2291	C.E.
15101	Dec 06 2291 C.E.	17:33:36	2558170.73216671	2291	Dec 06	17:45:08	000692	LNN	Dec.	-1.2909	0.4734	-0.4948	177	---	---	21.2N	94.3E	14 09	2291	C.E.
15102	May 02 2292 C.E.	05:49:17	2558317.7425539	2292	May 02	06:00:50	000693	LPU	Asc.	-0.7955	1.4234	0.3736	312	139	---	16.3S	88.2W	13 02	2292	C.E.
15103	Oct 26 2292 C.E.	20:33:50	2558495.3568313	2292	Oct 26	20:45:23	000694	LPU	Dec.	0.7041	1.5744	0.5578	306	158	---	13.5N	47.3E	15 08	2292	C.E.
15104	Apr 21 2293 C.E.	14:01:49	2558876.9845947	2293	Apr 21	14:13:28	000696	LPU	Asc.	-0.0179	2.8238	1.8264	337	219	101	12.1S	149.2E	13 02	2293	C.E.
15105	Oct 16 2293 C.E.	02:56:40	2558849.6226871	2293	Oct 16	03:08:14	000697	LTU	Dec.	-0.0144	2.8659	1.7980	367	232	105	9.0N	47.8W	14 08	2293	C.E.
15106	Jan 11 2294 C.E.	04:24:32	2559026.6327953	2294	Jan 11	04:36:12	000699	LPU	Asc.	0.6956	1.5614	0.6015	286	149	---	7.7S	65.6W	13 01	2294	C.E.
15107	Oct 05 2294 C.E.	03:26:41	2559203.6435314	2294	Oct 05	03:38:21	000700	LPU	Dec.	-0.7442	1.5358	0.4499	333	155	---	4.1N	54.3W	14 07	2294	C.E.
15108	Mar 02 2295 C.E.	10:49:23	2559321.9509632	2295	Mar 02	11:01:05	000702	LNN	Asc.	-1.2642	0.5328	-0.4561	192	---	---	6.0N	159.8W	14 12	2295	C.E.
15109	Mar 31 2295 C.E.	20:51:09	2559381.3688524	2295	Mar 31	21:02:51	000702	LNN	Asc.	1.3816	0.3046	-0.6588	145	---	---	3.0S	48.6E	15 01	2295	C.E.
15110	Aug 25 2295 C.E.	15:55:18	2559528.1634078	2295	Aug 25	16:07:01	000702	LNN	Dec.	-1.3328	0.4219	-0.5967	183	---	---	9.4S	121.5E	12 06	2295	C.E.
15111	Sep 24 2295 C.E.	01:48:20	2559557.7002297	2295	Sep 24	05:00:01	000702	LNN	Dec.	-1.4387	0.2451	-0.8081	146	---	---	0.8S	73.6W	13 07	2295	C.E.
15112	Feb 19 2296 C.E.	24:24:14	2559738.9918259	2296	Feb 19	21:35:56	000703	LPU	Asc.	-0.6112	1.7600	0.7136	326	178	---	10.6N	117.0E	15 12	2296	C.E.
15113	Aug 14 2296 C.E.	03:51:14	2559882.6605759	2296	Aug 14	04:03:00	000705	LPU	Dec.	0.5283	1.8710	0.9061	307	180	---	13.6S	56.6W	13 06	2296	C.E.
15114	Feb 08 2297 C.E.	00:34:16	2560060.5237953	2297	Feb 08	00:46:00	000706	LPU	Asc.	0.0832	2.7537	1.6579	375	233	103	15.0N	5.2W	14 12	2297	C.E.
15115	Aug 03 2297 C.E.	20:25:20	2560237.3509229	2297	Aug 03	20:37:08	000708	LTU	Dec.	-0.2162	2.4318	1.4902	314	200	089	17.4S	55.4E	14 05	2297	C.E.
15116	Jan 27 2298 C.E.	23:39:25	2560414.4857039	2298	Jan 27	23:51:14	000709	LPU	Asc.	0.7640	1.5061	0.4072	330	148	---	18.9N	8.3E	14 11	2298	C.E.
15117	Jul 24 2298 C.E.	13:02:23	2560592.0433250	2298	Jul 24	13:14:14	000711	LPU	Dec.	-0.9673	1.0641	0.1020	255	055	---	20.7S	166.3E	14 05	2298	C.E.
15118	Dec 18 2298 C.E.	11:51:47	2560768.9942991	2298	Dec 18	12:03:39	000712	LNN	Asc.	-1.4439	0.2196	-0.8022	131	---	---	18.5W	131	13 10	2298	C.E.
15119	Jan 17 2299 C.E.	02:18:34	2560768.9962309	2299	Jan 17	02:30:27	000712	LNN	Asc.	1.4048	0.3077	-0.7463	160	---	---	22.1N	32.2W	13 11	2299	C.E.
15120	Jun 14 2299 C.E.	13:19:05	2560915.0549234	2299	Jun 14	13:30:59	000714	LPU	Asc.	0.9131	1.2037	0.1620	294	095	---	22.4S	160.6E	14 03	2299	C.E.
15121	Dec 08 2299 C.E.	00:57:11	2561093.5397128	2299	Dec 08	01:09:07	000715	LPU	Asc.	-0.7167	1.5308	0.5548	286	147	---	21.9N	16.4W	13 09	2299	C.E.
15122	Jun 03 2300 C.E.	15:16:07	2561271.1361883	2300	Jun 03	15:28:04	000717	LPU	Dec.	0.1654	2.5912	1.5184	373	233	099	22.2S	130.7E	13 03	2300	C.E.
15123	Nov 27 2300 C.E.	16:48:33	2561448.2003764	2300	Nov 27	17:00:30	000718	LTU	Asc.	-0.0421	2.7661	1.7951	321	208	098	21.1N	104.7E	14 09	2300	C.E.
15124	May 23 2301 C.E.	16:17:15	2561625.1786424	2301	May 23	16:29:15	000720	LPU	Dec.	-0.5869	1.8090	0.7538	340	188	---	21.1S	114.8E	13 03	2301	C.E.
15125	Nov 17 2301 C.E.	06:43:59	2561802.7805445	2301	Nov 17	06:55:59	000721	LPU	Asc.	0.6679	1.6369	0.6284	305	164	---	19.4N	105.1W	14 09	2301	C.E.
15126	Apr 13 2302 C.E.	12:47:50	2561950.0332194	2302	Apr 13	12:59:53	000722	LNN	Dec.	-1.3598	0.3554	-0.6295	160	---	---	7.7S	168.9E	13 01	2302	C.E.
15127	Oct 12 2302 C.E.	23:05:48	2561979.4623668	2302	Oct 12	23:17:51	000723	LNN	Dec.	-1.2986	0.4777	-0.5269	189	---	---	19.3S	12.3E	13 02	2302	C.E.
15128	Oct 07 2302 C.E.	22:37:29	2562127.4426979	2302	Oct 07	22:49:32	000724	LNN	Asc.	-1.4690	0.2008	-0.8749	136	---	---	4.3N	18.3E	14 07	2302	C.E.
15129	Nov 06 2302 C.E.	14:34:18	2562157.1071554	2302	Nov 06	14:46:22	000724	LNN	Asc.	1.4352	0.2562	-0.8062	149	---	---	17.0N	136.7E	14 08	2302	C.E.
15130	Apr 03 2303 C.E.	04:07:33	2562304.6719094	2303	Apr 03	04:19:38	000725	LPU	Dec.	0.6276	1.6852	0.7274	291	161	---	4.3S	60.7W	14 01	2303	C.E.
15131	Sep 26 2303 C.E.	22:38:45	2562481.4435766	2303	Sep 26	22:50:53	000727	LPU	Asc.	-0.7615	1.5008	0.4214	328	151	---	0.5N	18.6E	14 07	2303	C.E.
15132	Mar 22 2304 C.E.	20:14:32	2562659.3442222	2304	Mar 22	20:26:38	000728	LTU	Dec.	-0.0661	2.7241	1.7492	325	210	098	0.8S	58.0E	15 01	2304	C.E.
15133	Sep 15 2304 C.E.	01:36:47	2562835.5672073	2304	Sep 15	01:48:59	000730	LTU	Asc.	0.0003	2.8757	1.8395	356	228	104	3.2S	25.3W	13 07	2304	C.E.
15134	Mar 12 2305 C.E.	08:29:22	2563013.8537239	2305	Mar 12	08:41:32	000731	LPU	Dec.	-0.8072	1.3910	0.3632	297	133	---	2.8N	125.3W	15 13	2305	C.E.
15135	Sep 04 2305 C.E.	11:53:35	2563189.9955471	2305	Sep 04	12:05:49	000733	LPU	Asc.	0.7435	1.4829	0.5043	291	145	---	6.6S	178.8E	12 06	2305	C.E.
15136	Jan 30 2306 C.E.	19:07:47	2563338.3970704	2306	Jan 30	19:20:00	000734	LNN	Dec.	-1.4427	0.2628	-0.8401	157	---	---	18.9N	76.7E	14 11	2306	C.E.
15137	Mar 01 2306 C.E.	13:30:39	2563368.0629117	2306	Mar 01	13:42:50	000734	LNN	Dec.	-1.5674	0.0240	-1.0590	048	---	---	6.5N	159.7E	14 12	2306	C.E.
15138																				

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)	Greatest in Zenith		Hebrew Date of Creation	Date on the Calendar
			Pen.	Par.								Lat.	Lon.		Day	Month		
15195	Nov 18 2328	C.E.	12:46:08	2571666.0320377	2328 Nov 18 12:59:34	000807	LPU	Dec.	0.7574	1.4825	0.4542	303	146	---	19.9N	164.6E	14 09 2328	C.E.
15196	May 14 2329	C.E.	05:12:40	2571842.7171316	2329 May 14 05:26:10	000808	LTU	Asc.	-0.1279	2.6163	1.6304	333	215	098	18.7S	79.0W	13 02 2329	C.E.
15197	Nov 07 2329	C.E.	18:05:00	2572020.2534698	2329 Nov 07 18:18:28	000810	LTU	Dec.	0.0568	2.7936	1.7147	370	232	104	16.3N	84.6E	15 08 2329	C.E.
15198	May 03 2330	C.E.	20:19:32	2572197.3468973	2330 May 03 20:33:05	000812	LPU	Asc.	0.5998	1.7335	0.7812	294	165	---	15.1S	54.6E	14 02 2330	C.E.
15199	Oct 27 2330	C.E.	17:59:20	2572374.2495333	2330 Oct 27 18:12:53	000813	LPU	Dec.	-0.6542	1.7039	0.6123	344	176	---	12.1N	86.3E	14 08 2330	C.E.
15200	Mar 25 2331	C.E.	03:28:41	2572522.6449221	2331 Mar 25 03:42:15	000814	LNN	Asc.	-1.3179	0.4340	-0.5545	176	---	---	2.7S	51.0W	15 01 2331	C.E.
15201	Apr 23 2331	C.E.	13:00:28	2572552.0419958	2331 Apr 23 13:14:04	000815	LNN	Asc.	1.3070	0.4401	-0.5207	172	---	---	11.1S	164.9E	14 02 2331	C.E.
15202	Sep 17 2331	C.E.	06:27:52	2572698.7693503	2331 Sep 17 06:41:29	000816	LNN	Dec.	1.4466	0.2123	-0.8045	131	---	---	1.2S	98.6W	13 07 2331	C.E.
15203	Oct 16 2331	C.E.	19:36:18	2572722.3168720	2331 Oct 16 19:49:54	000816	LNN	Dec.	-1.3365	0.4329	-0.6209	190	---	---	7.6N	62.7E	13 08 2331	C.E.
15204	Mar 13 2332	C.E.	13:34:53	2572787.0658898	2332 Mar 13 13:48:30	000818	LPU	Asc.	-0.6557	1.6789	0.6314	323	171	---	2.3N	158.4E	14 13 2332	C.E.
15205	Sep 05 2332	C.E.	18:57:39	2573053.2900336	2332 Sep 05 19:11:19	000819	LPU	Asc.	0.6533	1.6412	0.6771	294	160	---	5.9S	75.2E	13 06 2332	C.E.
15206	Mar 02 2333	C.E.	16:16:43	2573231.1782772	2333 Mar 02 16:30:33	000821	LTU	Asc.	0.0466	2.8199	1.7260	376	234	104	7.2N	118.8E	15 12 2333	C.E.
15207	Aug 26 2333	C.E.	11:35:55	2573407.9832717	2333 Aug 26 11:49:36	000822	LTU	Dec.	-0.0806	2.6823	1.7373	317	205	098	10.4S	173.4W	13 06 2333	C.E.
15208	Feb 19 2334	C.E.	15:34:31	2573585.1489654	2334 Feb 19 15:48:16	000824	LPU	Asc.	0.7362	1.5539	0.4614	332	156	---	12.0N	129.9E	14 12 2334	C.E.
15209	Aug 16 2334	C.E.	03:46:05	2573762.6570025	2334 Aug 16 03:59:49	000825	LPU	Dec.	-0.8304	1.3191	0.3494	277	120	---	14.7S	55.1W	14 06 2334	C.E.
15210	Jan 10 2335	C.E.	05:02:10	2573909.7098370	2335 Jan 10 05:15:58	000827	LNN	Asc.	-1.4454	0.2146	-0.8025	129	---	---	20.6N	74.0W	13 11 2335	C.E.
15211	Feb 08 2335	C.E.	19:01:29	2573939.2926955	2335 Feb 08 19:15:16	000827	LNN	Asc.	1.3834	0.3430	-0.7030	167	---	---	16.4N	78.3E	13 12 2335	C.E.
15212	Jul 07 2335	C.E.	02:42:03	2574087.6125326	2335 Jul 07 02:55:51	000829	LNN	Dec.	1.0806	0.8984	-0.1473	264	---	---	21.6S	39.1W	14 04 2335	C.E.
15213	Dec 30 2335	C.E.	18:31:31	2574264.2718902	2335 Dec 30 18:45:22	000830	LPU	Asc.	-0.7278	1.5102	0.5347	284	144	---	22.4N	82.5E	14 10 2335	C.E.
15214	Jun 25 2336	C.E.	04:13:19	2574441.6759158	2336 Jun 25 04:27:11	000832	LTU	Dec.	0.3347	2.2795	1.2091	367	222	071	23.0S	62.5W	14 04 2336	C.E.
15215	Dec 19 2336	C.E.	10:14:58	2574618.9270635	2336 Dec 19 10:28:55	000833	LTU	Asc.	-0.0624	2.7316	1.7553	322	209	098	23.3N	154.7W	14 10 2336	C.E.
15216	Jun 14 2337	C.E.	05:49:19	2574795.7425786	2337 Jun 14 06:03:11	000835	LTU	Dec.	-0.4307	2.0912	1.0449	349	209	034	23.6S	87.2W	13 03 2337	C.E.
15217	Dec 08 2337	C.E.	23:31:54	2574973.1048833	2337 Dec 08 23:45:49	000836	LPU	Asc.	0.6423	1.6888	0.6703	311	169	---	23.3N	4.7E	15 09 2337	C.E.
15218	May 05 2338	C.E.	04:21:59	2575120.6819311	2338 May 05 04:35:57	000838	LNN	Dec.	1.4490	0.1861	-0.7879	117	---	---	14.7S	65.6W	13 02 2338	C.E.
15219	Jun 03 2338	C.E.	13:41:25	2575168.7044330	2338 Jun 03 13:55:24	000838	LNN	Dec.	-1.1602	0.7260	-0.2676	226	---	---	23.4S	154.1E	13 03 2338	C.E.
15220	Oct 29 2338	C.E.	13:21:05	2575298.7663098	2338 Oct 29 13:35:05	000839	LNN	Asc.	-1.5568	0.0447	-1.0408	065	---	---	12.1N	156.2E	14 08 2338	C.E.
15221	Nov 28 2338	C.E.	06:23:20	2575327.0562091	2338 Nov 28 06:37:21	000840	LNN	Asc.	1.3975	0.3006	-0.7423	170	---	---	22.4N	99.4W	14 09 2338	C.E.
15222	Apr 24 2339	C.E.	20:18:39	2575475.3462903	2339 Apr 24 20:32:41	000841	LPU	Dec.	0.7125	1.5262	0.5747	282	144	---	12.1S	55.3E	14 02 2339	C.E.
15223	Oct 18 2339	C.E.	13:00:17	2575652.0148661	2339 Oct 18 13:14:20	000843	LPU	Asc.	-0.8625	1.3175	0.2341	314	115	---	8.7N	161.6E	13 08 2339	C.E.
15224	Apr 13 2340	C.E.	12:31:09	2575800.0216358	2340 Apr 13 12:45:13	000844	LTU	Dec.	0.0074	2.8310	1.8576	326	212	100	9.1S	172.4E	14 01 2340	C.E.
15225	Oct 06 2340	C.E.	16:25:46	2576006.1845570	2340 Oct 06 16:39:54	000846	LPU	Asc.	-0.1075	2.6789	1.6432	353	225	100	5.2N	110.7E	13 07 2340	C.E.
15226	Apr 03 2341	C.E.	00:22:48	2576184.5158335	2341 Apr 03 00:36:55	000848	LPU	Dec.	-0.7480	1.4998	0.4715	307	150	---	5.7S	5.2W	15 01 2341	C.E.
15227	Sep 26 2341	C.E.	03:15:04	2576360.3546333	2341 Sep 26 03:29:14	000849	LPU	Asc.	0.6276	1.6955	0.7172	301	167	---	1.7N	51.1W	13 07 2341	C.E.
15228	Feb 21 2342	C.E.	10:55:34	2576508.9552525	2342 Feb 21 11:09:44	000850	LNN	Dec.	1.4735	0.2051	-0.8953	140	---	---	11.9N	160.0W	14 12 2342	C.E.
15229	Mar 23 2342	C.E.	04:54:02	2576538.7041860	2342 Mar 23 05:08:12	000851	LNN	Dec.	-1.5165	0.1163	-0.9648	104	---	---	2.0S	72.5W	14 01 2342	C.E.
15230	Aug 17 2342	C.E.	11:50:57	2576685.9937198	2342 Aug 17 12:05:08	000852	LNN	Asc.	-1.2082	0.6141	-0.3323	198	---	---	14.5S	176.0W	14 06 2342	C.E.
15231	Sep 15 2342	C.E.	19:10:06	2576715.2986754	2342 Sep 15 19:24:17	000852	LNN	Asc.	1.3112	0.4262	-0.5225	168	---	---	1.8S	70.7E	14 07 2342	C.E.
15232	Feb 10 2343	C.E.	10:37:22	2576862.9426205	2343 Feb 10 10:51:37	000854	LPU	Dec.	-0.7095	1.4699	0.3863	322	143	---	15.2N	155.7W	13 12 2343	C.E.
15233	Aug 07 2343	C.E.	03:07:33	2577040.6302433	2343 Aug 07 03:21:47	000855	LPU	Asc.	0.5795	1.9308	0.9485	317	188	---	17.0S	45.0W	14 05 2343	C.E.
15234	Jan 30 2344	C.E.	16:04:21	2577127.1696868	2344 Jan 30 16:18:41	000857	LTU	Dec.	0.0518	2.7783	1.7480	345	221	101	17.9N	122.0E	14 11 2344	C.E.
15235	Jul 26 2344	C.E.	12:26:39	2577395.0185033	2344 Jul 26 12:40:55	000858	LPU	Asc.	0.2752	2.3712	1.3352	353	221	084	19.0N	105.1E	14 05 2344	C.E.
15236	Jan 19 2345	C.E.	04:24:27	2577571.6836404	2345 Jan 19 04:38:47	000860	LPU	Dec.	-0.6290	1.6949	0.7126	297	165	---	19.8N	63.9W	13 11 2345	C.E.
15237	Jul 15 2345	C.E.	14:56:34	2577749.4226119	2345 Jul 15 15:10:55	000862	LNN	Asc.	1.0613	0.9454	-0.1231	277	---	---	20.5S	137.3E	13 05 2345	C.E.
15238	Jan 08 2345	C.E.	09:10:32	2577896.8823093	2345 Dec 10 09:24:55	000863	LNN	Dec.	1.4083	0.2658	-0.7180	137	---	---	24.3N	139.6W	14 10 2345	C.E.
15239	Dec 10 2345	C.E.	20:00:18	2577926.5766849	2346 Jan 08 20:14:42	000864	LNN	Dec.	-1.2743	0.5060	-0.4663	182	---	---	20.9N	61.1E	14 11 2346	C.E.
15240	Jun 05 2346	C.E.	02:48:49	2578073.6172342	2346 Jun 05 03:03:15	000865	LPU	Asc.	-0.9921	1.0546	0.0211	276	034	---	23.4S	42.5W	13 03 2346	C.E.
15241	Nov 29 2346	C.E.	21:01:31	2578251.3760498	2346 Nov 29 21:15:56	000866	LPU	Asc.	0.7757	1.4517	0.4181	302	141	---	22.2N	41.5E	15 09 2346	C.E.
15242	May 25 2347	C.E.	12:39:04	2578428.0271289	2347 May 25 12:53:34	000868	LTU	Asc.	-0.1916	2.4966	1.5160	330	212	093	21.0S	169.6E	13 03 2347	C.E.
15243	Nov 19 2347	C.E.	01:50:26	2578605.5766849	2347 Nov 19 02:04:54	000870	LPU	Dec.	0.0825	2.7490	1.6652	371	232	103	19.3N	31.4W	14 09 2347	C.E.
15244	May 14 2348	C.E.	04:06:40	2578782.6172989	2348 May 14 04:21:12	000871	LPU	Asc.	0.5425	1.8369	0.8879	298	173	---	18.1S	62.4W	14 02 2348	C.E.
15245	Nov 07 2348	C.E.	01:29:49	2578959.5623733	2348 Nov 07 01:44:23	000873	LPU	Dec.	-0.6202	1.7675	0.6734	347	183	---	15.6N	26.5W	14 08 2348	C.E.
15246	Apr 04 2349	C.E.	11:35:17	2579107.9828003	2349 Apr 04 11:49:50	000874	LNN	Asc.	-1.3547	0.3665	-0.6218	163	---	---	7.0S	173.5W	14 01 2349	C.E.
15247	May 03 2349	C.E.	20:52:49	2579137.3700773	2349 May 03 21:07:23	000875	LNN	Asc.	1.2602	0.5254	-0.4345	187	---	---	14.6S	46.4E	15 02 2349	C.E.
15248	Sep 27 2349	C.E.	13:57:50	2579284.0818300	2349 Sep 27 14:12:26	000876	LNN	Dec.	1.4935	0.1259	-0.8903	101	---	---	3.1N	147.9E	12 07 2349	C.E.
15249	Oct 27 2349	C.E.	03:15:49	2579313.6359783	2349 Oct 27 03:30:25	000876	LNN	Dec.	-1.2962	0.5069	-0.5472	204	---	---	11.5N	52.7W	13 08 2349	C.E.
15250	Mar 24 2350	C.E.	21:28:16	2579462.3946334	2350 Mar 24 21:42:53	000878	LPU	Asc.	-0.6865	1.6223	0.5748	321	165	---	2.1S	39.3E	15 01 2350	C.E.
15251	Sep 17 2350	C.E.	02:40:12	2579638.6112500	2350 Sep 17 02:54:52	000879	LPU	Dec.	0.7087	1.5396	0.5754	288	149	---	1.7S	41.5W	13 07 2350	C.E.
15252	Mar 13 2351	C.E.	23:57:58	2579816.4985843	2351 Mar 14 00:12:36	000881	LTU	Asc.	0.0206</									

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase			Greatest in Zenith		Hebrew Date on the Creation Calendar	
										Pen.	Par.	Tot.	Lat.	Lon.	Day	Month
15302	Mar 02 2371 C.E.	11:31:12	2587109.9799981	2371 Mar 02 11:47:02	000950	LNN	Asc.	1.3489	0.4010	-0.6346	178	---	---	8.6N	169.5W	13 12 2371 C.E.
15303	Jul 28 2371 C.E.	15:55:35	2587258.1636024	2371 Jul 28 16:11:26	000951	LNN	Dec.	1.2511	0.5885	-0.4632	222	---	---	17.8S	122.7E	14 05 2371 C.E.
15304	Aug 27 2371 C.E.	04:54:51	2587287.7047545	2371 Aug 27 05:10:43	000952	LNN	Dec.	-1.5155	0.0932	-0.9382	090	---	---	11.5S	72.7W	14 06 2371 C.E.
15305	Jan 21 2372 C.E.	12:11:48	2587435.0081929	2372 Jan 21 12:27:41	000953	LPU	Asc.	-0.7354	1.4953	0.5218	282	142	---	19.3N	179.5E	13 11 2372 C.E.
15306	Jul 16 2372 C.E.	17:02:31	2587612.1200816	2372 Jul 16 17:18:26	000955	LPU	Dec.	0.5095	1.9581	0.8887	355	203	---	20.7S	106.1E	14 05 2372 C.E.
15307	Jan 10 2373 C.E.	03:51:32	2587789.6607897	2373 Jan 10 04:07:28	000957	LTU	Asc.	-0.0728	2.7145	1.7344	323	209	097	21.9N	56.3W	14 11 2373 C.E.
15308	Jul 05 2373 C.E.	19:12:55	2587966.3006354	2373 Jul 05 19:28:56	000959	LPU	Dec.	-0.2641	2.3930	1.3541	355	222	086	22.9S	73.2E	13 04 2373 C.E.
15309	Dec 30 2373 C.E.	16:34:24	2588144.1905596	2373 Dec 30 16:50:23	000960	LPU	Asc.	0.6322	1.7114	0.6849	314	172	---	23.7N	111.8E	15 10 2373 C.E.
15310	Jun 25 2374 C.E.	04:05:31	2588320.6705011	2374 Jun 25 04:21:34	000962	LNN	Dec.	-1.0090	0.9990	0.0142	255	027	---	24.3S	60.6W	13 04 2374 C.E.
15311	Dec 19 2374 C.E.	22:31:45	2588498.4387192	2374 Dec 19 22:47:49	000964	LNN	Asc.	1.3775	0.3715	-0.7099	180	---	---	24.6N	21.0E	14 10 2374 C.E.
15312	May 16 2375 C.E.	12:01:05	2588646.0007472	2375 May 16 12:17:09	000965	LPU	Dec.	0.8213	1.3240	0.3775	269	117	---	18.2S	179.2E	14 02 2375 C.E.
15313	Nov 09 2375 C.E.	04:00:25	2588822.6669518	2375 Nov 09 04:16:32	000967	LPU	Dec.	-0.9329	1.1899	0.1033	302	078	---	15.9N	63.9W	13 08 2375 C.E.
15314	May 05 2376 C.E.	04:13:42	2589000.6761835	2376 May 05 04:29:49	000969	LTU	Dec.	0.1074	2.6472	1.6745	327	211	098	16.2S	64.1W	14 02 2376 C.E.
15315	Oct 28 2376 C.E.	07:52:47	2589176.8283219	2376 Oct 28 08:08:59	000970	LTU	Asc.	-0.1871	2.5327	1.4972	349	221	094	13.0N	122.2W	13 08 2376 C.E.
15316	Apr 24 2377 C.E.	15:38:27	2589355.1516986	2377 Apr 24 15:54:37	000972	LPU	Dec.	-0.6610	1.6596	0.6309	319	170	---	13.6S	124.7E	14 02 2377 C.E.
15317	Oct 17 2377 C.E.	19:09:51	2589531.2985056	2377 Oct 17 19:26:06	000974	LPU	Asc.	0.5369	1.8624	0.8834	307	180	---	9.9N	68.6E	13 08 2377 C.E.
15318	Mar 15 2378 C.E.	02:16:08	2589769.5945393	2378 Mar 15 02:32:23	000975	LNN	Dec.	1.5245	0.1089	-0.9865	103	---	---	3.5N	31.2W	14 13 2378 C.E.
15319	Apr 13 2378 C.E.	19:38:56	2589709.3186986	2378 Apr 13 19:55:10	000975	LNN	Dec.	-1.4365	0.2617	-0.8164	155	---	---	10.3S	64.8E	15 01 2378 C.E.
15320	Sep 08 2378 C.E.	03:07:35	2589856.6302621	2378 Sep 08 03:23:52	000977	LNN	Asc.	-1.3353	0.3841	-0.5687	161	---	---	6.9S	46.7W	14 06 2378 C.E.
15321	Oct 07 2378 C.E.	11:06:00	2589885.9624999	2378 Oct 07 11:22:17	000977	LNN	Asc.	1.2148	0.6058	-0.3480	197	---	---	6.6N	170.1W	13 07 2378 C.E.
15322	Mar 04 2379 C.E.	02:32:13	2590033.6057017	2379 Mar 04 02:48:32	000979	LPU	Dec.	0.8120	1.4057	0.3312	315	133	---	7.4N	34.8W	13 12 2379 C.E.
15323	Aug 28 2379 C.E.	17:41:46	2590211.2373363	2379 Aug 28 17:58:05	000980	LPU	Asc.	-0.6446	1.6712	0.6793	307	169	---	10.2S	95.3E	15 06 2379 C.E.
15324	Feb 21 2380 C.E.	08:55:17	2590363.8071075	2380 Feb 21 09:11:42	000982	LTU	Dec.	0.0726	2.7355	1.7144	342	220	100	10.9N	130.5W	13 12 2380 C.E.
15325	Aug 17 2380 C.E.	01:59:43	2590565.5831373	2380 Aug 17 02:16:05	000984	LTU	Asc.	0.1171	2.6656	1.6210	361	229	101	13.2S	28.8E	14 06 2380 C.E.
15326	Feb 09 2381 C.E.	21:55:01	2590742.4132105	2381 Feb 09 22:11:28	000986	LPU	Dec.	-0.6131	1.7215	0.7444	297	166	---	13.9N	34.3E	14 12 2381 C.E.
15327	Aug 06 2381 C.E.	03:48:09	2590919.6584343	2381 Aug 06 04:04:35	000987	LPU	Asc.	0.8907	1.2595	0.1884	310	105	---	15.9S	55.7W	14 05 2381 C.E.
15328	Jan 01 2382 C.E.	02:37:37	2591067.6049570	2382 Jan 01 02:54:05	000989	LNN	Dec.	1.4262	0.2360	-0.7538	131	---	---	24.4N	38.5W	14 10 2382 C.E.
15329	Jan 30 2382 C.E.	13:40:37	2591097.0698751	2382 Jan 30 13:57:06	000989	LNN	Dec.	-1.2668	0.5201	-0.4529	185	---	---	16.4N	157.5E	14 11 2382 C.E.
15330	Jun 26 2382 C.E.	16:32:41	2591244.1893638	2382 Jun 26 16:49:12	000990	LNN	Asc.	-1.1391	0.7802	-0.2441	242	---	---	24.4S	112.9E	13 04 2382 C.E.
15331	Dec 21 2382 C.E.	13:44:04	2591222.0722742	2382 Dec 21 14:00:36	000992	LPU	Dec.	0.8002	1.4114	0.3685	302	134	---	24.1N	153.4E	14 10 2382 C.E.
15332	Jun 16 2383 C.E.	03:22:44	2591498.6407859	2383 Jun 16 03:39:20	000994	LPU	Dec.	-0.3291	2.2399	1.2683	322	202	073	23.6S	50.3W	13 04 2383 C.E.
15333	Dec 10 2383 C.E.	17:39:01	2591776.3354260	2383 Dec 10 17:55:35	000996	LTU	Dec.	0.1179	2.6882	1.5962	373	232	101	23.0N	93.2E	15 10 2383 C.E.
15334	Jan 04 2384 C.E.	19:25:25	2591953.3093165	2384 Jan 04 19:42:03	000998	LTU	Dec.	0.4149	2.0684	1.1246	306	187	051	22.1S	68.5E	14 03 2384 C.E.
15335	Nov 28 2384 C.E.	16:54:21	2592130.2044113	2384 Nov 28 17:11:01	000999	LPU	Dec.	-0.5705	1.8605	0.7628	352	192	---	20.9N	103.3E	14 09 2384 C.E.
15336	Apr 26 2385 C.E.	03:22:26	2592278.6405741	2385 Apr 26 03:39:06	001001	LNN	Asc.	-1.4471	0.1969	-0.7912	122	---	---	14.9S	51.4W	15 02 2385 C.E.
15337	May 25 2385 C.E.	12:16:13	2592308.0112627	2385 May 25 12:32:54	001001	LNN	Asc.	1.1510	0.7256	-0.2337	216	---	---	19.8S	175.5E	14 03 2385 C.E.
15338	Nov 17 2385 C.E.	19:02:11	2592484.2931847	2385 Nov 17 19:18:54	001003	LNN	Dec.	-1.2358	0.6177	-0.4362	221	---	---	17.9N	70.8E	13 09 2385 C.E.
15339	Apr 15 2386 C.E.	12:43:11	2592633.0299942	2386 Apr 15 12:59:54	001004	LPU	Asc.	-0.7715	1.4663	0.4190	313	145	---	10.5S	169.1E	14 01 2386 C.E.
15340	Oct 08 2386 C.E.	18:29:56	2592809.2707852	2386 Oct 08 18:46:42	001006	LPU	Dec.	0.8002	1.3725	0.4067	277	126	---	6.8N	79.2E	13 07 2386 C.E.
15341	Apr 04 2387 C.E.	14:50:59	2592987.1187373	2387 Apr 04 15:07:46	001008	LTU	Asc.	-0.0541	2.8030	1.7154	376	235	105	5.7S	138.0E	14 01 2387 C.E.
15342	Sep 28 2387 C.E.	11:00:03	2593163.9583709	2387 Sep 28 11:16:52	001009	LPU	Dec.	0.0891	2.6713	1.7176	318	205	097	2.1N	167.3W	13 07 2387 C.E.
15343	Mar 23 2388 C.E.	14:43:22	2593341.1134436	2388 Mar 23 15:00:13	001011	LPU	Asc.	0.6554	1.6953	0.6165	338	175	---	0.7S	140.9E	13 01 2388 C.E.
15344	Sep 17 2388 C.E.	02:16:21	2593515.9546865	2388 Sep 17 02:33:13	001013	LPU	Dec.	-0.6501	1.6575	0.6729	302	165	---	2.7S	35.2W	14 07 2388 C.E.
15345	Feb 11 2389 C.E.	06:49:07	2593665.7841061	2389 Feb 11 07:06:01	001014	LNN	Asc.	-1.4510	0.1989	-0.8074	123	---	---	12.6N	99.3W	13 12 2389 C.E.
15346	Mar 12 2389 C.E.	19:37:37	2593695.3177913	2389 Mar 12 19:54:32	001015	LNN	Asc.	1.3238	0.4442	-0.5858	186	---	---	4.3N	68.3E	13 13 2389 C.E.
15347	Aug 07 2389 C.E.	22:33:34	2593843.4399712	2389 Aug 07 22:50:30	001016	LNN	Dec.	1.3334	0.4392	-0.6159	195	---	---	14.9S	23.0E	14 05 2389 C.E.
15348	Sep 06 2389 C.E.	11:58:04	2593872.9686623	2389 Sep 06 12:15:01	001017	LNN	Dec.	-1.4544	0.2080	-0.8289	133	---	---	7.5S	179.4W	14 06 2389 C.E.
15349	Jan 31 2390 C.E.	21:00:32	2594200.3753759	2390 Jan 31 21:17:31	001018	LPU	Asc.	-0.7404	1.4853	0.5135	282	140	---	16.5N	47.9E	14 11 2390 C.E.
15350	Jul 27 2390 C.E.	23:27:42	2594197.4757079	2390 Jul 27 23:44:43	001020	LPU	Dec.	0.5961	1.7993	0.7299	347	189	---	18.4S	9.8E	14 05 2390 C.E.
15351	Jan 21 2391 C.E.	12:39:37	2594375.0275121	2391 Jan 21 12:56:37	001021	LTU	Asc.	-0.0775	2.7064	1.7250	324	210	097	19.8N	172.7E	14 11 2391 C.E.
15352	Jul 17 2391 C.E.	01:55:43	2594551.5803627	2391 Jul 17 02:12:48	001023	LPU	Dec.	-0.1870	2.5445	1.5087	357	226	096	21.4S	27.2W	13 05 2391 C.E.
15353	Jan 11 2392 C.E.	01:06:47	2594729.5463805	2392 Jan 11 01:23:51	001025	LPU	Asc.	0.6291	1.7187	0.6890	316	172	---	22.5N	15.0W	15 11 2392 C.E.
15354	Jul 05 2392 C.E.	11:16:00	2594905.9694476	2392 Jul 05 11:33:08	001027	LPU	Dec.	-0.9305	1.1411	0.1600	268	083	---	23.6S	167.6W	13 04 2392 C.E.
15355	Dec 30 2392 C.E.	06:40:07	2595083.7778628	2392 Dec 30 06:57:16	001029	LNN	Asc.	1.3717	0.3839	-0.7007	184	---	---	24.4N	99.7W	14 10 2392 C.E.
15356	May 26 2393 C.E.	19:43:01	2595231.3215391	2393 May 26 20:00:11	001030	LPU	Dec.	0.8834	1.2091	0.2644	260	095	---	20.4S	64.0E	14 03 2393 C.E.
15357	Nov 19 2393 C.E.	11:43:14	2595407.9883575	2393 Nov 19 12:00:27	001032	LPU	Asc.	-0.9583	1.1440	0.0562	297	058	---	18.7N	179.3W	13 09 2393 C.E.
15358	May 16 2394 C.E.	11:52:43	2595585.9949365	2394 May 16 12:09:55	001034	LPU	Dec.	0.1667	2.5385	1.5656	327	210	094	19.0S	178.9W	14 02 2394 C.E.
15359	Nov 08 2394 C.E.	15:50:50	2595762.1603056	2394 Nov 08 16:08:08	001035	LPU	Asc.	-0.2159	2.4797	1.4444	347	219	090	16.4N	118.2E	13 08 2394 C.E.
15360	May 05 2395 C.E.	23:00:29	2595940.4566640	2395 May 05 23:17:43	001036	LPU	Dec.	-0.6059	1.7609	0.7318	325	180	---	16.9S	13.9E	15 02 2395 C.E.
15361	Oct 29 2395 C.E.	03:20:22	2596116.6391493	2395 Oct 29 03:37:41	001038	LPU	Asc.	0.5017	1.9271	0.9475	309	184	---	13.7N	54.4W	13 08 2395 C.E.
15362	Mar 25 2396 C.E.	09:44:04	2596264.9060118	2396 Mar 25 10:01:23	001039											

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Year	Month	Day	Time (UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen.	Par. (minutes)	Lat.	Lon.	Day	Month	Year							
15409	Sep	29	2414	C.E.	18:46:07	2603027.2820250	2414	Sep	29	19:04:36	001109	LNN	Asc.	-1.4430	0.1905	-0.7703	116	---	---	1.4N	76.8E	14	07	2414	C.E.
15410	Oct	29	2414	C.E.	03:31:17	2603056.6467284	2414	Oct	29	03:49:46	001109	LNN	Asc.	1.1430	0.7404	-0.2191	215	---	---	14.5N	57.4W	13	08	2414	C.E.
15411	Mar	25	2415	C.E.	18:02:02	2603204.2514101	2415	Mar	25	18:20:33	001111	LPU	Dec.	0.8668	1.2997	0.2362	304	113	---	1.2S	91.3E	14	01	2415	C.E.
15412	Sep	19	2415	C.E.	08:32:29	2603381.8558908	2415	Sep	19	08:51:01	001113	LPU	Asc.	-0.7713	1.4445	0.4412	296	143	---	2.1S	129.2W	14	07	2415	C.E.
15413	Mar	14	2416	C.E.	01:27:17	2603558.5606123	2416	Mar	14	01:45:53	001114	LTU	Dec.	0.1119	2.6579	1.6477	338	218	098	2.5N	19.6W	13	13	2416	C.E.
15414	Sep	07	2416	C.E.	15:43:52	2603736.1554614	2416	Sep	07	16:02:27	001116	LTU	Asc.	-0.0288	2.8327	1.7781	365	232	105	5.6S	123.6E	14	06	2416	C.E.
15415	Mar	03	2417	C.E.	15:10:20	2603913.1321731	2417	Mar	03	15:28:58	001118	LPU	Dec.	-0.5837	1.7722	0.8017	298	170	---	6.1N	135.0E	13	12	2417	C.E.
15416	Aug	27	2417	C.E.	16:52:48	2604090.2033382	2417	Aug	27	17:11:29	001120	LPU	Asc.	0.7294	1.5575	0.4825	333	160	---	9.1S	107.0E	14	06	2417	C.E.
15417	Jan	22	2418	C.E.	20:07:04	2604238.3382407	2418	Jan	22	20:25:44	001121	LNN	Dec.	1.4411	0.2108	-0.7831	124	---	---	20.9N	61.4E	15	11	2418	C.E.
15418	Feb	21	2418	C.E.	07:07:36	2604267.7969436	2418	Feb	21	07:26:19	001122	LNN	Dec.	-1.2503	0.5498	-0.4223	190	---	---	9.4N	104.2W	14	12	2418	C.E.
15419	Jul	18	2418	C.E.	06:15:37	2604414.7608440	2418	Jul	18	06:34:20	001123	LNN	Asc.	-1.2887	0.5020	-0.5150	198	---	---	22.1S	91.7W	13	05	2418	C.E.
15420	Aug	16	2418	C.E.	18:27:47	2604444.2692901	2418	Aug	16	18:46:30	001124	LNN	Asc.	1.4487	0.2231	-0.8230	140	---	---	12.2S	83.7E	13	06	2418	C.E.
15421	Jan	12	2419	C.E.	06:34:34	2604592.7740061	2419	Jan	12	06:53:18	001125	LPU	Dec.	0.8155	1.3869	0.3370	302	130	---	22.4N	96.6W	14	11	2419	C.E.
15422	Jul	07	2419	C.E.	17:58:32	2604769.2489810	2419	Jul	07	18:17:20	001127	LTU	Asc.	-0.4754	1.9679	1.0032	311	187	009	22.9S	92.0E	13	04	2419	C.E.
15423	Jan	01	2420	C.E.	09:42:04	2604994.9042086	2420	Jan	01	10:00:51	001129	LTU	Dec.	0.1394	2.6515	1.5539	374	231	099	23.1N	144.9W	14	10	2420	C.E.
15424	Jun	26	2420	C.E.	10:28:45	2605123.9366363	2420	Jun	26	10:47:36	001131	LTU	Asc.	0.2737	2.3260	1.3851	312	197	082	23.0S	156.2W	13	04	2420	C.E.
15425	Dec	20	2420	C.E.	08:44:42	2605300.8643754	2420	Dec	20	09:03:35	001133	LPU	Dec.	-0.5406	1.9161	0.8170	354	196	---	22.9N	132.0W	13	10	2420	C.E.
15426	Jun	16	2421	C.E.	03:13:47	2605478.6345717	2421	Jun	16	03:32:42	001135	LPU	Asc.	0.1225	0.9622	0.0014	244	008	---	22.3S	48.1W	14	04	2421	C.E.
15427	Dec	09	2421	C.E.	11:21:02	2605654.9729406	2421	Dec	09	11:39:59	001137	LNN	Dec.	-1.1983	0.6858	-0.3667	230	---	---	21.7N	172.3W	13	10	2421	C.E.
15428	May	07	2422	C.E.	03:18:45	2605803.6380259	2422	May	07	03:37:43	001138	LPU	Asc.	-0.8852	1.2576	0.2104	298	107	---	17.6S	50.6W	15	02	2422	C.E.
15429	Oct	30	2422	C.E.	10:51:41	2605979.9525534	2422	Oct	30	11:10:41	001140	LPU	Dec.	0.8668	1.2514	0.2833	267	105	---	14.7N	167.3W	13	08	2422	C.E.
15430	Apr	26	2423	C.E.	05:06:39	2606157.7129515	2423	Apr	26	05:25:41	001142	LTU	Asc.	-0.1585	2.6087	1.5263	374	233	099	13.6S	77.2W	14	02	2423	C.E.
15431	Oct	20	2423	C.E.	03:10:11	2606334.6320695	2423	Oct	20	03:29:14	001144	LTU	Dec.	0.1723	2.5222	1.5612	318	204	092	10.4N	51.4W	14	08	2423	C.E.
15432	Apr	14	2424	C.E.	05:31:57	2606511.7305181	2424	Apr	14	05:51:04	001146	LPU	Asc.	0.5685	1.8491	0.7812	344	191	---	9.1S	82.8W	13	01	2424	C.E.
15433	Oct	08	2424	C.E.	17:42:33	2606689.2378784	2424	Oct	08	18:01:38	001147	LPU	Dec.	-0.5553	1.8372	0.8411	314	182	---	5.8N	91.4E	15	07	2424	C.E.
15434	Mar	04	2425	C.E.	23:44:00	2606866.4888896	2425	Mar	05	00:03:09	001149	LNN	Asc.	-1.4701	0.1590	-0.8379	110	---	---	4.6N	6.3E	13	12	2425	C.E.
15435	Apr	03	2425	C.E.	11:31:46	2606866.9803935	2425	Apr	03	11:50:55	001149	LNN	Asc.	1.2568	0.5610	-0.4568	205	---	---	4.4S	171.8W	13	01	2425	C.E.
15436	Aug	29	2425	C.E.	11:55:15	2607013.9966966	2425	Aug	29	12:14:25	001151	LNN	Dec.	1.4893	0.1572	-0.9060	120	---	---	7.7S	178.8W	14	06	2425	C.E.
15437	Sep	28	2425	C.E.	02:18:20	2607043.9596010	2425	Sep	28	02:37:30	001151	LNN	Dec.	-1.3451	0.4145	-0.6342	186	---	---	1.0N	36.5W	14	07	2425	C.E.
15438	Feb	22	2426	C.E.	14:27:35	2607191.1024869	2426	Feb	22	14:46:48	001153	LPU	Asc.	-0.7595	1.4481	0.4807	279	135	---	9.3N	146.1E	13	12	2426	C.E.
15439	Aug	18	2426	C.E.	12:26:45	2607368.0185758	2426	Aug	18	12:46:00	001155	LPU	Dec.	0.7614	1.4964	0.4260	328	151	---	12.2S	174.3E	13	06	2426	C.E.
15440	Feb	12	2427	C.E.	06:08:47	2607545.7560997	2427	Feb	12	06:28:03	001157	LTU	Asc.	-0.0913	2.6817	1.6991	325	210	097	13.7N	88.9W	14	12	2427	C.E.
15441	Aug	07	2427	C.E.	15:29:36	2607722.1455552	2427	Aug	07	15:48:55	001158	LTU	Dec.	-0.0180	2.8407	1.8097	356	228	104	16.2S	129.3E	12	05	2427	C.E.
15442	Feb	01	2428	C.E.	18:07:02	2607900.2548996	2428	Feb	01	18:26:21	001160	LPU	Asc.	0.6218	1.7346	0.7001	319	177	---	17.7N	91.5E	15	11	2428	C.E.
15443	Jul	27	2428	C.E.	01:41:54	2608076.5707647	2428	Jul	27	02:01:17	001162	LPU	Dec.	-0.7753	1.4230	0.4476	287	137	---	19.7S	23.5W	13	05	2428	C.E.
15444	Jan	20	2429	C.E.	22:57:10	2608254.4564398	2429	Jan	20	23:16:40	001164	LNN	Asc.	1.3619	0.4039	-0.6849	189	---	---	21.1N	18.4E	15	11	2429	C.E.
15445	Jul	17	2429	C.E.	10:52:03	2608401.9528156	2429	Jul	17	11:11:29	001166	LNN	Dec.	1.0191	0.9591	0.0165	238	028	---	22.3S	162.4W	14	04	2429	C.E.
15446	Jul	16	2429	C.E.	17:31:45	2608431.2303854	2429	Jul	16	17:51:11	001166	LNN	Dec.	-1.4688	0.1337	-0.8081	097	---	---	22.6S	99.0E	14	05	2429	C.E.
15447	Dec	11	2429	C.E.	03:32:13	2608579.6473716	2429	Dec	11	03:51:41	001168	LNT	Asc.	-0.9904	1.0854	-0.0030	290	---	---	22.1N	54.8W	13	10	2429	C.E.
15448	Jun	07	2430	C.E.	02:49:56	2608756.8180088	2430	Jun	07	03:09:24	001170	LTU	Dec.	0.3000	2.2947	1.3202	324	205	078	22.4S	42.5W	15	03	2430	C.E.
15449	Nov	30	2430	C.E.	08:11:40	2608932.8414377	2430	Nov	30	08:31:13	001171	LTU	Asc.	-0.2548	2.4076	1.3736	343	216	085	21.4N	125.9W	13	09	2430	C.E.
15450	May	27	2431	C.E.	13:19:56	2609111.0555096	2431	May	27	13:39:27	001173	LPU	Dec.	-0.4783	1.9960	0.9652	338	200	---	21.8S	159.4E	14	03	2431	C.E.
15451	Nov	19	2431	C.E.	20:05:57	2609287.3374640	2431	Nov	19	20:25:33	001175	LPU	Asc.	0.4513	2.0201	1.0395	312	189	030	19.9N	54.6E	13	09	2431	C.E.
15452	May	15	2432	C.E.	16:34:47	2609465.1908160	2432	May	15	16:54:24	001177	LNN	Dec.	-1.2615	0.5803	-0.4930	225	---	---	20.2S	110.1E	15	02	2432	C.E.
15453	Oct	10	2432	C.E.	02:45:34	2609612.6149737	2432	Oct	10	03:05:13	001179	LNN	Asc.	-1.4882	1.0998	-0.8555	089	---	---	5.5N	43.9W	14	07	2432	C.E.
15454	Nov	08	2432	C.E.	11:55:30	2609641.9968739	2432	Nov	08	12:15:09	001179	LNN	Asc.	1.1668	0.7899	-0.1726	221	---	---	17.8N	176.5E	13	08	2432	C.E.
15455	Apr	05	2433	C.E.	01:36:59	2609789.5673539	2433	Apr	05	01:56:41	001181	LPU	Dec.	0.9031	1.2301	0.1725	297	097	---	5.4S	23.2W	13	01	2433	C.E.
15456	Sep	29	2433	C.E.	16:04:59	2609967.1701319	2433	Sep	29	16:24:40	001182	LPU	Asc.	-0.8273	1.3447	0.3353	290	127	---	2.1N	116.7E	15	07	2433	C.E.
15457	Mar	25	2434	C.E.	09:34:50	2610143.8991886	2434	Mar	25	09:54:36	001184	LTU	Dec.	0.1395	2.6044	1.5999	336	217	096	1.8S	142.2W	13	01	2434	C.E.
15458	Sep	18	2434	C.E.	22:42:45	2610321.4463495	2434	Sep	18	23:02:29	001186	LTU	Asc.	-0.0951	2.7138	1.6539	366	231	103	1.5S	17.9E	14	07	2434	C.E.
15459	Mar	14	2435	C.E.	23:39:34	2610498.4858106	2435	Mar	14	23:59:23	001188	LNN	Dec.	-0.5618	1.8105	0.8436	299	172	---	1.8N	7.0E	14	13	24	

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar		
										Pen.	Par.	Lat.	Lon.	Day	Month	Year
15516	May 28 2458 C.E.	17:18:00	2618974.2208330	2458 May 28 17:39:21	001281	LNT	Asc.	-1.0244	1.0025	-0.0454	275	---	22.5S	100.0E	15 03 2458 C.E.	
15517	Nov 21 2458 C.E.	03:44:54	2619150.6561803	2458 Nov 21 04:06:17	001283	LPU	Dec.	0.9092	1.1749	0.2045	260	089	20.8N	60.0W	13 09 2458 C.E.	
15518	May 17 2459 C.E.	18:47:44	2619328.2831485	2459 May 17 19:09:09	001285	LTU	Asc.	-0.2904	2.3642	1.2870	369	226	081	19.7S	77.3E	14 03 2459 C.E.
15519	Nov 10 2459 C.E.	19:47:59	2619505.3249890	2459 Nov 10 20:09:25	001287	LTU	Dec.	0.2312	2.4179	1.4493	318	203	086	17.5N	58.9E	14 09 2459 C.E.
15520	May 05 2460 C.E.	19:51:30	2619682.3274273	2460 May 05 20:13:00	001289	LPU	Asc.	0.4550	2.0520	0.9950	350	206	---	16.3S	61.5E	14 02 2460 C.E.
15521	Oct 30 2460 C.E.	09:35:18	2619859.8995118	2460 Oct 30 09:56:47	001291	LPU	Dec.	-0.4852	1.9717	0.9637	322	193	---	13.6N	147.9W	14 08 2460 C.E.
15522	Mar 26 2461 C.E.	16:14:31	2620007.1767520	2461 Mar 26 16:36:04	001293	LNN	Asc.	-1.5110	0.0788	-0.9076	077	---	4.0S	117.2E	14 01 2461 C.E.	
15523	Apr 25 2461 C.E.	02:57:31	2620036.6232742	2461 Apr 25 03:19:04	001293	LNN	Asc.	1.1634	0.7262	-0.2793	227	---	12.3S	44.5W	13 02 2461 C.E.	
15524	Oct 19 2461 C.E.	17:05:06	2620214.2118777	2461 Oct 19 17:26:40	001295	LNN	Dec.	-1.2586	0.5794	-0.4814	219	---	9.2N	100.2E	15 08 2461 C.E.	
15525	Mar 16 2462 C.E.	07:33:32	2620361.8149532	2462 Mar 16 07:55:09	001297	LPU	Asc.	-0.7966	1.3771	0.4151	273	125	---	0.8N	111.6W	14 13 2462 C.E.
15526	Sep 09 2462 C.E.	01:48:17	2620538.5752000	2462 Sep 09 02:09:56	001299	LPU	Dec.	0.9084	1.2278	0.1552	305	095	---	4.3S	27.8W	13 06 2462 C.E.
15527	Mar 05 2463 C.E.	23:17:48	2620716.4706976	2463 Mar 05 23:39:28	001301	LTU	Asc.	-0.1202	2.6287	1.6462	326	210	096	5.6N	13.2E	15 12 2463 C.E.
15528	Aug 29 2463 C.E.	05:25:26	2620892.7260006	2463 Aug 29 05:47:12	001303	LTU	Dec.	0.1296	2.6342	1.6064	352	225	100	9.1S	81.0W	13 06 2463 C.E.
15529	Feb 23 2464 C.E.	10:50:28	2621070.9517075	2464 Feb 23 11:12:11	001305	LPU	Asc.	0.6040	1.7684	0.7313	323	178	---	10.4N	159.3W	14 12 2464 C.E.
15530	Aug 17 2464 C.E.	16:20:34	2621247.1809481	2464 Aug 17 16:42:22	001307	LPU	Dec.	-0.6276	1.6922	0.7203	301	167	---	13.5S	116.2E	13 06 2464 C.E.
15531	Feb 11 2465 C.E.	15:04:59	2621425.1284561	2465 Feb 11 15:26:48	001309	LNN	Asc.	1.3470	0.4320	-0.6582	196	---	14.9N	137.4E	14 12 2465 C.E.	
15532	Jul 09 2465 C.E.	01:48:17	2621572.5756069	2465 Jul 09 02:10:43	001311	LNN	Dec.	1.1636	0.6942	-0.2486	209	---	21.0S	25.7W	14 04 2465 C.E.	
15533	Aug 07 2465 C.E.	08:29:28	2621601.8538009	2465 Aug 07 08:51:19	001311	LNN	Dec.	-1.3275	0.3930	-0.5490	161	---	17.4S	125.4W	13 05 2465 C.E.	
15534	Jan 01 2466 C.E.	19:42:19	2621749.3210539	2466 Jan 01 20:04:12	001313	LNT	Asc.	-1.0070	1.0541	-0.0325	286	---	22.0N	65.1E	14 10 2466 C.E.	
15535	Jun 28 2466 C.E.	17:24:39	2621927.2254512	2466 Jun 28 17:46:32	001314	LTU	Dec.	0.4912	2.0231	1.0448	319	032	22.7S	100.0E	15 04 2466 C.E.	
15536	Dec 22 2466 C.E.	00:59:40	2622103.5414352	2466 Dec 22 01:21:38	001316	LTU	Asc.	-0.2740	2.3711	1.3399	340	193	081	23.1N	15.5W	13 10 2466 C.E.
15537	Jun 18 2467 C.E.	03:09:34	2622281.6316448	2467 Jun 18 03:31:30	001318	LTU	Dec.	-0.3290	2.2715	1.2376	350	216	073	23.7S	46.9W	15 04 2467 C.E.
15538	Dec 11 2467 C.E.	13:17:48	2622458.5040327	2467 Dec 11 13:39:51	001321	LTU	Asc.	0.4214	2.0752	1.0944	312	191	045	23.4N	158.6E	13 10 2467 C.E.
15539	Jun 06 2468 C.E.	05:53:04	2622635.7519899	2468 Jun 06 06:15:07	001323	LNN	Dec.	-1.1139	0.8501	-0.2208	265	---	23.7S	88.5W	14 03 2468 C.E.	
15540	Nov 30 2468 C.E.	05:02:18	2622812.7099304	2468 Nov 30 05:24:22	001324	LNN	Asc.	1.0806	0.8593	-0.1089	229	---	22.8N	78.8W	14 09 2468 C.E.	
15541	Apr 26 2469 C.E.	16:23:23	2622960.8182937	2469 Apr 26 16:45:29	001326	LPU	Dec.	0.9960	1.0534	0.0079	278	021	---	13.0S	114.1E	14 02 2469 C.E.
15542	Oct 21 2469 C.E.	07:30:26	2623137.8127995	2469 Oct 21 07:52:33	001328	LPU	Asc.	-0.9196	1.1816	0.1598	280	091	---	10.2N	116.1W	14 08 2469 C.E.
15543	Apr 16 2470 C.E.	01:27:35	2623314.5608215	2470 Apr 16 01:49:47	001330	LTU	Dec.	0.2150	2.4598	1.4671	331	212	090	10.0S	21.8W	13 01 2470 C.E.
15544	Oct 10 2470 C.E.	13:01:22	2623492.0426179	2470 Oct 10 13:23:33	001332	LTU	Asc.	-0.2084	2.5114	1.4406	366	228	090	6.8N	161.5E	14 07 2470 C.E.
15545	Apr 05 2471 C.E.	16:15:49	2623669.1776555	2471 Apr 05 16:38:04	001334	LPU	Dec.	-0.4992	1.9216	0.9621	302	179	---	6.8S	116.4E	14 01 2471 C.E.
15546	Sep 29 2471 C.E.	13:17:16	2623846.0536565	2471 Sep 29 13:39:32	001336	LPU	Asc.	0.5238	1.9385	0.8563	355	200	---	3.1N	158.1E	13 07 2471 C.E.
15547	Feb 24 2472 C.E.	21:59:20	2623994.4162054	2472 Feb 24 22:21:38	001338	LNN	Dec.	1.4790	0.1426	-0.8542	104	---	10.6N	33.9E	15 12 2472 C.E.	
15548	Mar 25 2472 C.E.	08:32:46	2624203.8560856	2472 Mar 25 08:55:04	001338	LNN	Dec.	-1.1926	0.6542	-0.3150	206	---	3.3S	127.4E	14 01 2472 C.E.	
15549	Aug 19 2472 C.E.	03:14:03	2624470.6347620	2472 Aug 19 03:36:24	001340	LNN	Asc.	-1.4980	0.1143	-0.8954	097	---	13.7S	46.8W	13 06 2472 C.E.	
15550	Sep 17 2472 C.E.	15:23:24	2624200.1412539	2472 Sep 17 15:45:45	001340	LNN	Asc.	1.2338	0.6167	-0.4277	222	---	0.6S	127.2E	12 07 2472 C.E.	
15551	Feb 13 2473 C.E.	07:35:08	2624438.8160694	2473 Feb 13 07:57:30	001342	LPU	Dec.	0.8462	1.3335	0.2778	301	120	---	13.8N	110.1W	14 12 2473 C.E.
15552	Aug 08 2473 C.E.	16:01:37	2624525.1677950	2473 Aug 08 16:24:02	001344	LPU	Dec.	-0.6920	1.5676	0.6088	290	152	---	16.3S	121.5E	13 05 2473 C.E.
15553	Feb 02 2474 C.E.	09:48:34	2624702.9087216	2474 Feb 02 10:10:59	001346	LTU	Dec.	0.1682	2.6001	1.4998	375	231	097	16.8N	143.9W	14 11 2474 C.E.
15554	Jul 29 2474 C.E.	08:53:06	2624879.8702069	2474 Jul 29 09:15:33	001348	LTU	Asc.	0.0523	2.7325	1.7912	317	205	099	18.4S	131.4W	13 05 2474 C.E.
15555	Jan 22 2475 C.E.	08:54:23	2625056.5710996	2475 Jan 22 09:16:54	001350	LPU	Dec.	-0.5121	1.9666	0.8710	355	200	---	19.1N	131.1W	13 11 2475 C.E.
15556	Jul 19 2475 C.E.	11:01:56	2625234.5499556	2475 Jul 19 11:24:26	001351	LPU	Asc.	0.8096	1.3560	0.3887	280	126	---	19.9S	16.4W	14 05 2475 C.E.
15557	Jan 11 2476 C.E.	12:26:52	2625411.0186528	2476 Jan 11 12:49:25	001353	LNN	Dec.	-1.1672	0.7397	-0.3065	236	---	20.7N	174.7E	13 11 2476 C.E.	
15558	Jun 08 2476 C.E.	00:06:11	2625559.5042941	2476 Jun 08 00:28:46	001355	LNN	Asc.	-1.1020	0.8607	-0.1881	260	---	23.9S	1.0S	15 03 2476 C.E.	
15559	Dec 01 2476 C.E.	12:21:36	2625736.0149952	2476 Dec 01 12:44:12	001357	LPU	Dec.	0.9228	1.1503	0.1790	258	082	---	22.9N	171.7E	13 09 2476 C.E.
15560	May 28 2477 C.E.	01:27:15	2625913.5605908	2477 May 28 01:49:54	001359	LNT	Asc.	-0.3653	2.2556	1.1508	365	220	061	21.9S	22.3W	14 03 2477 C.E.
15561	Nov 21 2477 C.E.	04:17:48	2626090.6790292	2477 Nov 21 04:40:20	001361	LTU	Dec.	0.2516	2.3825	1.4102	318	202	084	20.2N	68.1W	14 09 2477 C.E.
15562	May 17 2478 C.E.	02:50:50	2626267.1866337	2478 May 17 03:13:35	001363	LTU	Asc.	0.3882	2.1717	1.1201	352	113	054	19.1S	43.4W	13 03 2478 C.E.
15563	Nov 10 2478 C.E.	17:42:03	2626445.2375355	2478 Nov 10 18:04:46	001365	LTU	Dec.	-0.4598	2.0214	1.0075	326	196	013	16.9N	90.5E	15 09 2478 C.E.
15564	Apr 07 2479 C.E.	00:19:42	2626622.9337747	2479 Apr 07 00:42:29	001367	LNN	Asc.	-1.5403	0.0223	-0.9587	041	---	8.3S	4.8W	13 01 2479 C.E.	
15565	May 06 2479 C.E.	10:30:21	2626621.9377747	2479 May 06 10:53:09	001367	LNN	Asc.	1.1070	0.8266	-0.1729	239	---	15.6S	158.1W	13 02 2479 C.E.	
15566	Oct 31 2479 C.E.	00:40:00	2626799.5277768	2479 Oct 31 01:02:49	001369	LNN	Dec.	-1.2252	0.6435	-0.4231	230	---	13.0N	13.9W	14 08 2479 C.E.	
15567	Mar 26 2480 C.E.	15:55:47	2626947.1637332	2480 Mar 26 16:18:37	001371	LPU	Dec.	-0.8242	1.3251	0.3659	270	117	---	3.6S	122.1E	14 01 2480 C.E.
15568	Sep 19 2480 C.E.	08:40:35	2627123.8615120	2480 Sep 19 09:03:28	001373	LPU	Dec.	0.9726	1.1108	0.0368	294	047	---	0.1S	131.9W	13 07 2480 C.E.
15569	Mar 16 2481 C.E.	12:42:59	2627301.8215212	2481 Mar 16 18:05:53	001375	LTU	Asc.	-0.1415	2.5893	1.6072	326	210	095	1.3N	113.8W	14 13 2481 C.E.
15570	Sep 08 2481 C.E.	12:33:06	2627478.0298816	2481 Sep 08 12:56:05	001377	LTU	Dec.	0.1966	2.5108	1.4840	350	222	094	5.0S	171.2E	12 06 2481 C.E.
15571	Mar 05 2482 C.E.	19:03:10	2627													

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time of Maximum Eclipse (TD)		Delta T (seconds)	Lunar Eclipse Data			Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar											
	Year	Month	Day	Time	Year	Month		Day	Time	Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Pen.	Par.	Lat.	Lon.	Day	Month	Year					
15623	Dec	22	2504	C.E.	22:29:58	2635983	4374809	2504	Dec	22	22:54:35	001477	LNN	Asc.	1.0627	0.8943	-0.0784	234	---	---	24.5N	21.9E	14	10	2504	C.E.
15624	May	19	2505	C.E.	06:45:01	2636130	7812577	2505	May	19	07:09:40	001479	LNN	Dec.	1.1112	0.8360	-0.1975	251	---	---	18.8S	101.6W	13	03	2505	C.E.
15625	Nov	12	2505	C.E.	23:22:50	2636308	4741950	2505	Nov	12	23:47:31	001481	LPU	Asc.	-0.9869	1.0642	0.0303	271	040	---	16.9N	5.6E	15	09	2505	C.E.
15626	May	08	2506	C.E.	16:53:41	2636485	26039491	2506	May	08	17:18:27	001484	LPU	Dec.	0.3158	2.2691	1.2877	325	204	075	16.9S	106.0E	14	02	2506	C.E.
15627	Nov	02	2506	C.E.	03:50:32	2636662	6600914	2506	Nov	02	04:15:16	001486	LPU	Asc.	-0.2945	2.3587	1.2773	366	223	079	14.3N	61.7W	14	08	2506	C.E.
15628	Apr	28	2507	C.E.	08:23:14	2636839	8494672	2507	Apr	28	08:48:02	001488	LPU	Dec.	-0.4116	2.0788	1.1262	307	188	051	14.4S	126.5W	13	02	2507	C.E.
15629	Oct	22	2507	C.E.	03:36:00	2637016	6500024	2507	Oct	22	04:00:51	001490	LPU	Asc.	-0.4193	2.1327	1.0456	363	213	035	11.2N	58.0W	13	08	2507	C.E.
15630	Mar	18	2508	C.E.	14:43:43	2637165	1136927	2508	Mar	18	15:08:35	001492	LNN	Dec.	1.5272	0.0545	-0.9427	065	---	---	2.0N	141.7E	14	13	2508	C.E.
15631	Apr	17	2508	C.E.	00:50:51	2637194	5353155	2508	Apr	17	01:15:44	001492	LNN	Dec.	-1.1252	0.7770	-0.1902	222	---	---	11.5S	13.3W	14	01	2508	C.E.
15632	Oct	10	2508	C.E.	06:04:19	2637370	7529956	2508	Oct	10	06:29:13	001494	LNN	Asc.	1.1202	0.8250	-0.2193	250	---	---	7.7N	94.8W	13	07	2508	C.E.
15633	Mar	07	2509	C.E.	23:48:05	2637519	4917287	2509	Mar	07	00:13:01	001496	LPU	Dec.	0.8859	1.2614	0.2043	297	105	---	5.7N	5.9E	15	12	2509	C.E.
15634	Aug	31	2509	C.E.	07:02:34	2637695	7934434	2509	Aug	31	07:27:32	001498	LPU	Asc.	-0.8231	1.3264	0.3686	273	119	---	9.2S	105.0W	13	06	2509	C.E.
15635	Feb	25	2510	C.E.	01:36:09	2637873	5667677	2510	Feb	25	02:01:08	001500	LPU	Dec.	0.1998	2.5412	1.4426	375	230	094	9.4N	20.9W	14	12	2510	C.E.
15636	Aug	20	2510	C.E.	23:56:28	2638050	4975502	2510	Aug	20	00:21:30	001502	LPU	Dec.	-0.0891	2.6667	1.7220	317	205	098	12.2S	2.0E	14	06	2510	C.E.
15637	Feb	14	2511	C.E.	00:57:43	2638227	5450769	2511	Feb	14	01:22:47	001504	LPU	Dec.	-0.4880	2.0079	0.9182	355	202	---	12.9N	11.3W	14	12	2511	C.E.
15638	Aug	10	2511	C.E.	15:46:49	2638405	1575147	2511	Aug	10	16:11:55	001507	LPU	Asc.	0.6669	1.6216	0.6470	299	161	---	14.8S	124.6E	14	05	2511	C.E.
15639	Feb	03	2512	C.E.	05:18:40	2638581	7212953	2512	Feb	03	05:43:49	001509	LNN	Dec.	-1.1489	0.7697	-0.2693	238	---	---	15.7N	76.9W	13	11	2512	C.E.
15640	Jun	30	2512	C.E.	13:25:56	2638730	0596781	2512	Jun	30	13:51:05	001510	LNN	Asc.	-1.2673	0.5588	-0.4928	217	---	---	24.2S	160.0E	14	04	2512	C.E.
15641	Jul	30	2512	C.E.	02:10:35	2638759	596781	2512	Jul	30	02:35:45	001511	LNN	Asc.	1.4873	0.1430	-0.8845	111	---	---	17.0S	31.3W	14	05	2512	C.E.
15642	Dec	24	2512	C.E.	05:50:27	2638906	7433735	2512	Dec	24	06:15:41	001513	LPU	Dec.	0.9388	1.1213	0.1491	255	074	---	24.3N	87.9W	13	10	2512	C.E.
15643	Jun	19	2513	C.E.	14:30:36	2639084	1045790	2513	Jun	19	14:55:51	001515	LPU	Asc.	-0.5279	1.9251	0.8544	353	200	---	23.8S	143.0E	13	04	2513	C.E.
15644	Dec	13	2513	C.E.	21:32:51	2639261	3978151	2513	Dec	13	21:58:07	001517	LPU	Dec.	0.2784	2.3367	1.3577	318	202	080	23.4N	35.1E	14	10	2513	C.E.
15645	Jun	08	2514	C.E.	16:35:58	2639438	1916450	2514	Jun	08	17:01:19	001519	LPU	Asc.	0.2410	2.4368	1.3953	356	223	089	22.6S	111.0E	13	03	2514	C.E.
15646	Dec	03	2514	C.E.	10:13:48	2639615	9262553	2514	Dec	03	10:39:08	001521	LPU	Dec.	-0.4258	2.0893	1.0646	331	200	039	21.6N	156.2W	14	09	2514	C.E.
15647	May	29	2515	C.E.	01:20:47	2639792	5560940	2515	May	29	01:46:10	001523	LPU	Asc.	0.9790	1.0558	0.0674	261	053	---	20.5S	20.6W	13	03	2515	C.E.
15648	Nov	22	2515	C.E.	16:09:15	2639970	1730845	2515	Nov	22	16:34:40	001526	LNN	Dec.	-1.1754	0.7403	-0.3369	246	---	---	19.0N	114.2E	15	09	2515	C.E.
15649	Apr	18	2516	C.E.	08:18:53	2640117	8464447	2516	Apr	18	08:44:20	001527	LPU	Asc.	-0.8975	1.1878	0.2342	259	091	---	11.9S	125.1W	14	02	2516	C.E.
15650	Oct	11	2516	C.E.	22:51:25	2640294	6523735	2516	Oct	11	23:16:55	001530	LNN	Dec.	1.0802	0.9148	-0.1621	272	---	---	8.4N	13.5E	13	08	2516	C.E.
15651	Apr	08	2517	C.E.	00:07:14	2640472	5050205	2517	Apr	08	00:32:44	001532	LPU	Asc.	-0.2049	2.4726	1.4915	326	209	090	7.3S	1.4W	15	01	2517	C.E.
15652	Oct	01	2517	C.E.	03:15:27	2640648	6357330	2517	Oct	01	03:41:04	001534	LPU	Dec.	0.3108	2.3007	1.2749	343	214	076	3.5N	51.4W	13	07	2517	C.E.
15653	Mar	28	2518	C.E.	11:02:00	2640826	9597260	2518	Mar	28	11:27:35	001536	LPU	Asc.	0.5390	1.8884	0.8500	331	190	---	2.5S	164.1W	14	01	2518	C.E.
15654	Sep	20	2518	C.E.	15:01:44	2641003	1262057	2518	Sep	20	15:27:23	001538	LPU	Dec.	-0.4369	2.0415	1.0709	313	191	040	1.3S	133.2E	14	07	2518	C.E.
15655	Mar	17	2519	C.E.	14:30:41	2641181	1046427	2519	Mar	17	14:56:21	001540	LNN	Asc.	1.2904	0.5346	-0.5532	217	---	---	2.5N	144.7E	12	13	2519	C.E.
15656	Aug	12	2519	C.E.	00:10:54	2641328	5075711	2519	Aug	12	00:36:36	001542	LNN	Dec.	1.3801	0.2994	-0.6486	143	---	---	13.6S	1.5W	14	05	2519	C.E.
15657	Sep	10	2519	C.E.	07:22:35	2641357	8073538	2519	Sep	10	07:48:18	001543	LNN	Dec.	-1.1362	0.7464	-0.2003	215	---	---	6.1S	110.8W	13	06	2519	C.E.
15658	Feb	04	2520	C.E.	20:10:36	2641505	3406905	2520	Feb	04	20:36:21	001545	LNT	Asc.	-1.0242	1.0185	-0.0601	280	---	---	15.3N	60.4E	14	11	2520	C.E.
15659	Jul	31	2520	C.E.	14:56:45	2641683	1227416	2520	Jul	31	15:22:30	001546	LPU	Dec.	0.6822	1.6002	0.6120	303	161	---	17.7S	137.6E	14	05	2520	C.E.
15660	Jan	24	2521	C.E.	02:35:35	2641859	6080424	2521	Jan	24	03:01:26	001549	LPU	Dec.	-0.2873	2.3426	1.3195	336	211	079	18.9N	36.2W	13	11	2521	C.E.
15661	Jul	20	2521	C.E.	23:21:36	2642037	4733319	2521	Jul	20	23:47:24	001551	LPU	Dec.	-0.0849	2.7234	1.6816	361	230	103	20.4S	11.5E	15	05	2521	C.E.
15662	Jan	13	2522	C.E.	15:36:21	2642214	1502420	2522	Jan	13	16:02:14	001553	LPU	Dec.	0.4007	2.1119	1.1335	312	192	052	21.8N	127.8E	14	11	2522	C.E.
15663	Jul	10	2522	C.E.	01:14:37	2642291	5518216	2522	Jul	10	01:40:32	001555	LPU	Dec.	-0.8624	1.3108	0.2411	314	117	---	22.9S	17.0W	14	04	2522	C.E.
15664	Jan	03	2523	C.E.	07:18:05	2642568	8042297	2523	Jan	03	07:44:03	001558	LNN	Asc.	1.0578	0.9042	-0.0702	235	---	---	23.9N	108.8W	14	10	2523	C.E.
15665	May	30	2523	C.E.	13:47:09	2642716	1074453	2523	May	30	14:13:08	001559	LNN	Dec.	1.1767	0.7132	-0.3148	233	---	---	20.7S	153.1E	13	03	2523	C.E.
15666	Nov	24	2523	C.E.	07:29:18	2642893	8120174	2523	Nov	24	07:55:18	001561	LNT	Asc.	-1.0110	1.0229	-0.0166	268	---	---	19.5N	115.6W	14	09	2523	C.E.
15667	May	19	2524	C.E.	00:27:52	2643070	1935058	2524	May	19	00:53:57	001564	LPU	Dec.	0.3745	2.1589	1.1827	320	199	062	19.4S	7.5W	13	03	2524	C.E.
15668	Nov	12	2524	C.E.	11:26:46	2643247	9769229	2524	Nov	12	11:52:51	001566	LPU	Dec.	-0.3271	2.3014	1.2152	365	220	071	17.5N	175.6W	14	09	2524	C.E.
15669	May	08	2525	C.E.	16:16:15	2643425	1799559	2525	May	08	16:42:24	001568	LPU	Dec.	-0.3589	2.1741	1.2246	309	192	066	17.6S	115.1E	13	02	2525	C.E.
15670	Nov	01	2525	C.E.	11:00:14	2643601	9584992	2525	Nov	01	11:26:25	001570	LPU	Dec.	-0.3790	2.2078	1.1184	365	217	055	14.8N	169.4W	13	08	2525	C.E.
15671	Apr	28	2526	C.E.	08:47:10	2643779	8660857	2526	Apr	28	09:13:22	001572	LNN	Dec.	-1.0818	0.8562	-0.1102	232	---	---	15.2S	132.8W	14	02	2526	C.E.
15672	Oct	21	2526	C.E.	13:39:18	2643956	0689633	2526	Oct	21	14:05:35	001575	LNN	Dec.	1.073											

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	Date and Time (TD) of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (Pen. Par. Tot.)	Phase (minutes)	Greatest in Zenith (Lat. Lon.)	Hebrew Date and Time of Creation Calendar
15730	May 10 2552 C.E.	00:11:56	2653288.5082904	2552 May 10 00:40:07	001691	LPU	Asc.	-0.9961	1.0046	0.0556	243 014 ---	18.7S 3.9W	14 02 2552 C.E.
15731	Jun 08 2552 C.E.	07:28:44	2653317.8116210	2552 Jun 08 07:56:56	001692	LNN	Asc.	1.5203	0.0407	-0.9044	054 --- ---	21.3S 112.1W	13 03 2552 C.E.
15732	Nov 02 2552 C.E.	13:41:01	2653465.0710505	2552 Nov 02 14:09:15	001694	LNN	Dec.	1.1581	0.7732	-0.3064	253 --- ---	16.0N 150.3E	13 08 2552 C.E.
15733	Apr 29 2553 C.E.	15:58:02	2653643.1653027	2553 Apr 29 16:26:16	001696	LTU	Asc.	-0.2943	2.3084	1.3277	324 205 079	15.0S 119.9E	14 02 2553 C.E.
15734	Oct 22 2553 C.E.	18:35:46	2653819.2748346	2553 Oct 22 19:04:06	001698	LTU	Dec.	0.3969	2.1426	1.1172	336 205 052	11.7N 77.0E	13 08 2553 C.E.
15735	Apr 19 2554 C.E.	02:23:06	2653997.5993756	2554 Apr 19 02:51:24	001700	LPU	Asc.	0.4610	2.0316	0.9931	339 201 ---	10.8S 35.8W	15 02 2554 C.E.
15736	Oct 12 2554 C.E.	06:48:39	2654173.7837836	2554 Oct 12 07:17:03	001703	LTU	Dec.	-0.3398	2.2202	1.2487	317 198 070	7.1N 105.4W	13 08 2554 C.E.
15737	Apr 08 2555 C.E.	05:25:27	2654351.7260036	2555 Apr 08 05:53:51	001705	LNN	Asc.	1.2202	0.6616	-0.4226	238 --- ---	6.1S 80.6W	14 01 2555 C.E.
15738	Sep 02 2555 C.E.	15:17:22	2654499.1370565	2555 Sep 02 15:45:48	001707	LNN	Dec.	1.5126	0.0595	-0.8949	065 --- ---	6.2S 130.3E	13 06 2555 C.E.
15739	Oct 01 2555 C.E.	23:06:37	2654528.4629277	2555 Oct 01 23:35:04	001707	LNN	Dec.	-1.0322	0.9399	-0.0122	237 --- ---	2.5N 11.1E	14 07 2555 C.E.
15740	Feb 26 2556 C.E.	12:19:31	2654676.1035546	2556 Feb 26 12:48:01	001709	LNN	Asc.	-1.0459	0.9742	-0.0956	273 --- ---	7.9N 177.9E	13 12 2556 C.E.
15741	Aug 22 2556 C.E.	05:19:27	2654853.7218362	2556 Aug 22 05:47:57	001711	LPU	Dec.	0.8316	1.3309	0.3335	288 126 ---	10.6S 79.1W	14 06 2556 C.E.
15742	Feb 14 2557 C.E.	19:37:49	2655030.3179313	2557 Feb 14 20:06:25	001714	LTU	Asc.	-0.3009	2.3135	1.2986	333 209 077	12.4N 68.7E	13 12 2557 C.E.
15743	Aug 11 2557 C.E.	12:43:14	2655208.0300260	2557 Aug 11 13:11:48	001716	LTU	Dec.	0.0794	2.7371	1.6879	364 231 104	14.8S 170.7E	14 05 2557 C.E.
15744	Feb 04 2558 C.E.	09:12:45	2655384.8838514	2558 Feb 04 09:41:23	001718	LTU	Asc.	0.3891	2.1312	1.1566	311 192 056	16.5N 134.9W	13 11 2558 C.E.
15745	Jul 31 2558 C.E.	14:03:39	2655562.0858634	2558 Jul 31 14:32:19	001720	LPU	Dec.	-0.6888	1.6298	0.5593	337 170 ---	18.6S 151.1E	13 05 2558 C.E.
15746	Jan 25 2559 C.E.	00:56:39	2655739.5393437	2559 Jan 25 01:25:22	001723	LNN	Asc.	1.0511	0.9177	-0.0589	237 --- ---	20.1N 11.3W	14 11 2559 C.E.
15747	Jun 21 2559 C.E.	03:44:18	2655886.6557664	2559 Jun 21 04:13:04	001725	LNN	Dec.	1.3146	0.4550	-0.5631	189 --- ---	22.1S 55.2W	13 04 2559 C.E.
15748	Jul 20 2559 C.E.	15:49:41	2655950.3194968	2559 Jul 20 16:18:25	001725	LNN	Dec.	-1.4179	0.2781	-0.7650	155 --- ---	18.5N 124.6E	13 05 2559 C.E.
15749	Dec 15 2559 C.E.	23:57:09	2656064.4980163	2559 Dec 16 00:25:55	001727	LNN	Asc.	-1.0445	0.9666	-0.0830	265 --- ---	22.2N 0.6W	15 10 2559 C.E.
15750	Jun 09 2560 C.E.	15:23:13	2656241.1411716	2560 Jun 09 15:52:03	001729	LPU	Dec.	0.5047	1.9153	0.9483	310 183 ---	22.5S 129.4E	13 03 2560 C.E.
15751	Dec 04 2560 C.E.	02:59:40	2656418.6247697	2560 Dec 04 03:28:31	001732	LTU	Asc.	-0.3740	2.2195	1.1251	365 217 056	21.9N 47.5W	14 09 2560 C.E.
15752	May 30 2561 C.E.	07:44:37	2656595.8226466	2561 May 30 08:13:31	001734	LTU	Dec.	-0.2381	2.3932	1.4487	314 199 086	22.1S 116.6W	14 03 2561 C.E.
15753	Nov 23 2561 C.E.	02:14:37	2656772.5934863	2561 Nov 23 02:43:34	001736	LTU	Asc.	0.3178	2.3218	1.2290	368 222 073	20.6N 37.3W	13 09 2561 C.E.
15754	May 20 2562 C.E.	00:16:16	2656950.5112999	2562 May 20 00:45:15	001739	LPU	Dec.	-0.9772	1.0478	0.0818	253 048 ---	20.9S 5.0W	15 03 2562 C.E.
15755	Nov 12 2562 C.E.	05:19:36	2657126.7219444	2562 Nov 12 05:48:38	001741	LNT	Asc.	1.0029	1.0402	-0.0041	273 --- ---	18.5N 84.3W	13 09 2562 C.E.
15756	Apr 09 2563 C.E.	23:04:23	2657275.4613716	2563 Apr 09 23:32:25	001743	LPU	Dec.	0.9919	1.0665	0.0099	281 024 ---	7.0S 14.7E	15 01 2563 C.E.
15757	Oct 03 2563 C.E.	06:21:56	2657451.7652349	2563 Oct 03 06:51:01	001745	LPU	Asc.	-0.9842	1.0319	0.0720	248 039 ---	3.1N 97.7W	13 07 2563 C.E.
15758	Mar 29 2564 C.E.	00:24:52	2657629.5172694	2564 Mar 29 00:53:59	001747	LTU	Dec.	0.2895	2.3732	1.2815	371 225 080	3.3S 5.0W	14 01 2564 C.E.
15759	Sep 21 2564 C.E.	23:03:59	2657806.4610958	2564 Sep 21 23:33:08	001750	LTU	Asc.	-0.2733	2.3333	1.3796	314 199 082	0.3S 12.4E	14 07 2564 C.E.
15760	Mar 18 2565 C.E.	00:30:02	2657983.5208538	2565 Mar 18 00:59:16	001752	LTU	Dec.	-0.4202	2.1254	1.0494	356 210 036	0.5N 5.8W	13 01 2565 C.E.
15761	Sep 11 2565 C.E.	13:54:51	2658161.0797607	2565 Sep 11 14:24:04	001754	LTU	Asc.	0.4699	1.9904	1.0011	320 193 005	3.7S 150.3E	14 07 2565 C.E.
15762	Mar 07 2566 C.E.	06:17:27	2658337.7621150	2566 Mar 07 06:46:44	001757	LNN	Dec.	-1.1006	0.8509	-0.1734	245 --- ---	4.3N 92.3W	13 13 2566 C.E.
15763	Aug 02 2566 C.E.	09:05:42	2658485.8789548	2566 Aug 02 09:35:01	001759	LNN	Asc.	1.5233	0.0927	-0.9661	093 --- ---	18.8S 134.0W	14 05 2566 C.E.
15764	Aug 31 2566 C.E.	22:45:53	2658515.4485259	2566 Aug 31 23:15:12	001759	LNN	Asc.	1.2754	0.5389	-0.5029	210 --- ---	7.1S 18.2E	14 06 2566 C.E.
15765	Jan 26 2567 C.E.	08:20:29	2658662.8475526	2567 Jan 26 08:49:50	001761	LPU	Dec.	0.9521	1.0963	0.1255	252 066 ---	19.6N 122.0W	13 11 2567 C.E.
15766	Jul 22 2567 C.E.	09:47:56	2658839.9082865	2567 Jul 22 10:17:19	001763	LPU	Asc.	-0.7862	1.4494	0.3822	324 144 ---	20.8S 144.8W	13 05 2567 C.E.
15767	Jan 15 2568 C.E.	23:49:01	2659197.4923692	2568 Jan 16 00:18:26	001766	LTU	Dec.	0.2978	2.3047	1.3185	320 202 077	21.3N 4.9E	14 11 2568 C.E.
15768	Jul 10 2568 C.E.	12:58:09	2659194.0348775	2568 Jul 10 13:27:40	001768	LTU	Asc.	-0.0002	2.8724	1.8432	356 228 104	22.0S 167.2E	13 04 2568 C.E.
15769	Jan 04 2569 C.E.	11:30:51	2659371.9776171	2569 Jan 04 12:00:19	001770	LTU	Dec.	-0.4030	2.1374	1.1000	336 204 048	22.2N 171.8W	14 10 2569 C.E.
15770	Jun 29 2569 C.E.	23:12:48	2659548.4627175	2569 Jun 29 23:42:20	001772	LPU	Asc.	0.7595	1.4520	0.4768	289 141 ---	22.3S 12.9E	13 04 2569 C.E.
15771	Dec 24 2569 C.E.	16:05:34	2659726.1705313	2569 Dec 24 16:35:10	001775	LNN	Dec.	-1.1366	0.8177	-0.2717	259 --- ---	22.3N 118.1E	15 10 2569 C.E.
15772	May 21 2570 C.E.	07:58:19	2659873.8321611	2570 May 21 08:27:55	001777	LNN	Asc.	1.0539	0.8977	-0.0495	232 --- ---	21.3S 120.3W	14 03 2570 C.E.
15773	Jun 19 2570 C.E.	15:00:46	2659903.1255337	2570 Jun 19 15:30:23	001777	LNN	Asc.	1.4525	0.1643	-0.7788	107 --- ---	21.9S 135.4E	13 04 2570 C.E.
15774	Nov 13 2570 C.E.	21:20:26	2660050.3891905	2570 Nov 13 21:50:05	001779	LNN	Dec.	1.1859	0.7227	-0.3578	245 --- ---	19.2N 35.7E	13 09 2570 C.E.
15775	May 10 2571 C.E.	23:39:17	2660228.4856148	2571 May 10 00:08:58	001782	LTU	Asc.	-0.3499	2.2064	1.2256	322 202 068	18.2S 4.4E	15 02 2571 C.E.
15776	Nov 03 2571 C.E.	02:31:10	2660404.6049773	2571 Nov 03 03:00:56	001784	LTU	Dec.	0.4286	2.0844	1.0592	333 202 038	15.4N 42.1W	13 08 2571 C.E.
15777	Apr 29 2572 C.E.	09:48:35	2660582.9087364	2572 Apr 29 10:18:19	001786	LTU	Asc.	0.4106	2.1242	1.0855	344 208 046	14.4S 147.6W	14 02 2572 C.E.
15778	Oct 22 2572 C.E.	14:54:57	2660759.1214979	2572 Oct 22 15:24:47	001788	LTU	Dec.	-0.3012	2.2914	1.3192	319 201 077	11.1N 132.4E	12 08 2572 C.E.
15779	Apr 18 2573 C.E.	12:38:30	2660937.0267377	2573 Apr 18 13:08:21	001791	LNN	Asc.	1.1738	0.7458	-0.3363	251 --- ---	10.1S 170.5E	14 02 2573 C.E.
15780	Oct 12 2573 C.E.	07:09:27	2661113.7926269	2573 Oct 12 07:39:20	001793	LPU	Dec.	-0.9892	1.0205	0.0651	245 031 ---	6.7N 110.4W	14 08 2573 C.E.
15781	Mar 08 2574 C.E.	20:17:05	2661261.3451946	2574 Mar 08 20:47:00	001795	LNN	Asc.	-1.0631	0.9400	-0.1246	268 --- ---	3.6N 57.9E	14 13 2574 C.E.
15782	Sep 02 2574 C.E.	12:33:36	2661439.0233374	2574 Sep 02 13:03:33	001798	LPU	Dec.	0.9024	1.2037	0.2009	279 101 ---	6.7S 171.4E	14 06 2574 C.E.
15783	Feb 26 2575 C.E.	04:04:46	2661615.6699821	2575 Feb 26 04:34:48	001800	LTU	Asc.	-0.3120	2.2906	1.2804	331 208 075	8.5N 58.3W	13 12 2575 C.E.
15784	Aug 22 2575 C.E.	19:26:22	2661793.3099789	2575 Aug 22 19:56:22	001802	LTU	Dec.	-0.5184	2.5944	1.5409	364 229 099	11.3S 69.3E	15 06 2575 C.E.
15785	Feb 15 2576 C.E.	17:57:21	2661970.2481562	2576 Feb 15 18:27:26	001805	LTU	Asc.	0.3803	2.1463	1.1740	311 193 059	13.0N 94.0E	14 12 2576 C.E.
15786	Aug 10 2576 C.E.	20:31:12	2662147.3550021	2576 Aug 10 21:01:19	001807	LPU	Dec.	-0.6041	1.7856	0.7141	346 188 ---	15.5S 53.9E	14 05 2576 C.E.
15787	Feb 04 2577 C.E.	09:44:34	2662324.0590447	2577 Feb 04 10:14:42	001809	LNN	Asc.	1.0475	0.9244	-0.0526	238 --- ---	17.1N 142.7W	14 11 2577 C.E.
15788	Jul 01 2577 C.E.	10:40:50	2662471.9450237	2577 Jul 01 11:11:00	001811	LNN	Dec.	1.3860	0.3218	-0.6918	161 --- ---	21.6S 158.8W	13 04 2577 C.E.
15789													

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse	Astronomical Julian Date (UT)	Astronomical			Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date on the Creation Calendar				
			(TD)	Date and Time of Maximum Eclipse	(Delta T seconds)						Pen.	Par.	Lat.	Lon.	Day	Month	Year		
15837	May 01 2599 C.E.	13:46:39	2670446	07.40620	2599	May 01	14:18:38	001919	LNN	Dec.	1.0979	0.8718	-0.1840	261	---	14.3S	153.1E	14 02 2599 C.E.	
15838	Oct 24 2599 C.E.	22:34:00	2670622	44.02734	2599	Oct 24	23:06:01	001921	LNN	Asc.	-1.0614	0.8917	-0.0708	233	---	11.1N	18.0E	13 08 2599 C.E.	
15839	Apr 20 2600 C.E.	14:53:30	2670800	12.04883	2600	Apr 20	15:25:33	001923	LNU	Dec.	0.3845	2.1958	1.1102	366	217	053	11.3S	136.6E	13 02 2600 C.E.
15840	Oct 14 2600 C.E.	14:59:45	2670977	12.48277	2600	Oct 14	15:31:50	001926	LTU	Asc.	-0.3691	2.1615	1.1999	312	193	063	7.9N	131.8E	13 08 2600 C.E.
15841	Apr 09 2601 C.E.	15:38:23	2671154	15.16503	2601	Apr 09	16:10:32	001928	LNU	Dec.	-0.3444	2.2588	1.1939	357	217	067	7.9S	125.7E	13 01 2601 C.E.
15842	Oct 04 2601 C.E.	05:03:55	2671331	71.10538	2601	Oct 04	05:36:04	001931	LNU	Asc.	0.3614	2.1953	1.1944	330	206	064	4.6N	78.9W	14 07 2601 C.E.
15843	Mar 29 2602 C.E.	22:29:16	2671508	43.69952	2602	Mar 29	23:01:29	001933	LNN	Dec.	-1.0422	0.9522	-0.0605	254	---	4.3S	23.3E	13 01 2602 C.E.	
15844	Sep 23 2602 C.E.	12:49:26	2671686	03.43276	2602	Sep 23	13:21:41	001935	LNN	Asc.	1.1516	0.7717	-0.2812	247	---	1.0N	165.4E	14 07 2602 C.E.	
15845	Feb 18 2603 C.E.	01:54:33	2671833	57.95489	2603	Feb 18	02:26:51	001938	LPU	Dec.	0.9680	1.0657	0.0979	249	055	---	12.9N	25.0W	14 12 2603 C.E.
15846	Aug 13 2603 C.E.	22:45:24	2672010	44.81895	2603	Aug 13	23:17:44	001940	LPU	Asc.	-0.9539	1.1413	0.0748	297	067	---	15.3S	20.5E	14 06 2603 C.E.
15847	Feb 07 2604 C.E.	17:18:40	2672188	22.12931	2604	Feb 07	17:51:01	001943	LNU	Dec.	0.3107	2.2824	1.2936	321	202	074	15.8N	103.7E	15 12 2604 C.E.
15848	Aug 02 2604 C.E.	02:37:56	2672364	60.96739	2604	Aug 02	03:10:23	001945	LTU	Asc.	-0.1619	2.5726	1.5494	351	224	097	17.8S	37.5W	15 05 2604 C.E.
15849	Jan 27 2605 C.E.	04:26:23	2672542	68.49829	2605	Jan 27	04:58:47	001947	LNU	Dec.	-0.3943	2.1563	1.1132	340	206	051	18.2N	63.9W	15 11 2605 C.E.
15850	Jul 22 2605 C.E.	13:43:43	2672719	07.20303	2605	Jul 22	14:16:15	001950	LPU	Asc.	0.6052	1.7319	0.7629	303	170	---	19.5S	155.8E	13 05 2605 C.E.
15851	Jan 16 2606 C.E.	08:17:39	2672896	84.55864	2606	Jan 16	08:50:10	001952	LNN	Dec.	-1.1237	0.8438	-0.2504	264	---	20.0N	122.7W	14 11 2606 C.E.	
15852	Jun 12 2606 C.E.	23:14:01	2673044	46.80676	2606	Jun 12	23:46:35	001954	LNN	Asc.	-1.1830	0.6597	-0.2855	204	---	24.3S	11.8E	14 03 2606 C.E.	
15853	Jul 12 2606 C.E.	05:58:24	2673073	74.88873	2606	Jul 12	06:30:59	001955	LNN	Asc.	1.3108	0.4229	-0.5178	167	---	20.6S	88.2W	13 04 2606 C.E.	
15854	Dec 06 2606 C.E.	13:03:42	2673221	04.42364	2606	Dec 06	13:36:19	001957	LNN	Dec.	1.2234	0.6542	-0.4270	234	---	23.5N	161.5E	13 09 2606 C.E.	
15855	Jun 02 2607 C.E.	14:41:09	2673391	11.91901	2607	Jun 02	15:13:46	001958	LNU	Dec.	-0.4766	1.9747	0.9924	317	191	---	22.6S	139.5E	14 03 2607 C.E.
15856	Nov 25 2607 C.E.	18:47:30	2673575	28.29874	2607	Nov 25	19:20:12	001960	LPU	Dec.	0.4734	2.0016	0.9773	328	195	---	21.1N	74.6E	13 09 2607 C.E.
15857	May 22 2608 C.E.	10:12:26	2673739	5.086360	2608	May 22	00:45:07	001963	LTU	Asc.	0.2896	2.3466	1.3071	352	219	081	20.1S	3.7W	15 03 2608 C.E.
15858	Nov 14 2608 C.E.	07:31:40	2673929	71.36521	2608	Nov 14	08:04:26	001965	LTU	Dec.	-0.2426	2.3997	1.4257	320	204	085	17.9N	116.9W	13 09 2608 C.E.
15859	May 11 2609 C.E.	02:37:54	2674107	60.96544	2609	May 11	03:10:42	001968	LNN	Asc.	1.0590	0.9541	-0.1237	278	---	16.9S	40.0W	14 02 2609 C.E.	
15860	Nov 03 2609 C.E.	23:36:42	2674284	48.38159	2609	Nov 03	00:09:32	001970	LPU	Dec.	-0.9215	1.1480	0.1859	257	081	---	14.2N	1.9E	14 08 2609 C.E.
15861	Mar 31 2610 C.E.	11:52:15	2674431	99.46128	2610	Mar 31	12:25:07	001972	LNN	Asc.	-1.1153	0.8384	-0.2146	254	---	5.1S	177.4W	13 01 2610 C.E.	
15862	Sep 25 2610 C.E.	03:17:43	2674609	63.73032	2610	Sep 25	03:50:37	001975	LNN	Dec.	1.0277	0.9796	-0.0348	260	---	1.7N	51.6W	14 07 2610 C.E.	
15863	Mar 20 2611 C.E.	20:41:28	2674786	36.21242	2611	Mar 20	21:14:26	001977	LNU	Asc.	-0.3503	2.2152	1.2156	326	204	067	0.1S	51.3E	13 01 2611 C.E.
15864	Sep 14 2611 C.E.	09:04:28	2674963	87.81021	2611	Sep 14	09:37:27	001980	LTU	Dec.	0.3043	2.3315	1.2686	362	222	078	3.2S	137.1W	14 07 2611 C.E.
15865	Mar 09 2612 C.E.	11:12:42	2675140	9.671521	2612	Mar 09	11:45:44	001982	LNU	Asc.	0.3508	2.1974	1.2310	312	194	076	4.8N	165.6W	13 13 2612 C.E.
15866	Sep 02 2612 C.E.	09:39:23	2675317	90.23525	2612	Sep 02	10:12:29	001985	LNU	Dec.	-0.4446	2.0796	1.0054	360	211	012	8.1S	144.6W	13 06 2612 C.E.
15867	Feb 27 2613 C.E.	03:06:48	2675495	62.97199	2613	Feb 27	03:39:55	001987	LNN	Asc.	1.0305	0.9556	-0.0213	242	---	9.5N	43.4W	14 12 2613 C.E.	
15868	Jul 24 2613 C.E.	00:34:58	2675642	52.42836	2613	Jul 24	01:08:08	001989	LNN	Dec.	1.5292	0.0554	-0.9511	068	---	18.3S	7.0W	13 05 2613 C.E.	
15869	Aug 22 2613 C.E.	12:06:50	2675672	00.47549	2613	Aug 22	12:39:59	001989	LNN	Dec.	-1.1734	0.7239	-0.3135	238	---	12.6S	179.6E	13 06 2613 C.E.	
15870	Jan 18 2614 C.E.	00:58:24	2675820	54.05533	2614	Jan 18	01:31:36	001992	LNU	Asc.	-0.1735	0.9187	-0.1416	262	---	19.6N	12.5W	15 11 2614 C.E.	
15871	Jul 13 2614 C.E.	13:29:08	2675997	66.18986	2614	Jul 13	14:02:23	001994	LNU	Dec.	0.7183	1.5184	0.5612	287	146	---	21.0S	159.5E	13 04 2614 C.E.
15872	Jan 07 2615 C.E.	02:53:41	2676174	62.06111	2615	Jan 07	03:26:57	001997	LTU	Asc.	-0.4133	2.1513	1.0491	365	213	036	22.1N	92.3W	14 10 2615 C.E.
15873	Jul 03 2615 C.E.	06:23:54	2676351	7.665928	2615	Jul 03	06:57:11	001999	LNU	Dec.	-0.0285	2.7760	1.8348	317	205	099	22.9S	94.6W	14 04 2615 C.E.
15874	Dec 27 2615 C.E.	02:00:28	2676528	58.36536	2615	Dec 27	02:33:50	002001	LTU	Asc.	0.2678	2.4141	1.3203	369	225	083	23.5N	30.3E	13 10 2615 C.E.
15875	Jun 21 2616 C.E.	22:41:20	2676706	44.53733	2616	Jun 21	23:14:44	002004	LNU	Dec.	-0.7844	1.4029	0.4342	283	133	---	24.1S	20.4E	15 04 2616 C.E.
15876	Dec 15 2616 C.E.	05:51:57	2676882	74.44110	2616	Dec 15	06:25:24	002006	LPU	Asc.	0.9417	1.1513	0.1092	281	076	---	24.1N	89.7W	13 10 2616 C.E.
15877	May 12 2617 C.E.	20:53:47	2677031	37.06834	2617	May 12	21:27:16	002009	LNN	Dec.	1.1607	0.7563	-0.2993	246	---	17.3S	46.2E	15 02 2617 C.E.	
15878	Nov 05 2617 C.E.	06:51:29	2677207	78.57467	2617	Nov 05	07:25:00	002011	LNN	Asc.	-1.0911	0.8380	-0.1261	227	---	14.6N	106.6W	13 08 2617 C.E.	
15879	May 01 2618 C.E.	21:54:23	2677385	41.27667	2618	May 01	22:27:57	002014	LTU	Dec.	0.4427	2.0874	1.0050	361	211	012	14.8S	31.0E	14 02 2618 C.E.
15880	Oct 25 2618 C.E.	23:08:42	2677562	46.43727	2618	Oct 25	23:42:17	002016	LTU	Asc.	-0.4073	2.0935	1.1277	311	191	052	11.8N	9.0E	14 08 2618 C.E.
15881	Apr 20 2619 C.E.	22:59:56	2677739	35.482827	2619	Apr 20	23:33:35	002018	LTU	Dec.	-0.2952	2.3463	1.2872	358	220	079	11.8S	14.7E	13 02 2619 C.E.
15882	Oct 15 2619 C.E.	12:48:40	2677917	03.37919	2619	Oct 15	13:22:19	002021	LTU	Asc.	0.3168	2.2803	1.2733	333	210	075	8.7N	164.2E	14 08 2619 C.E.
15883	Apr 09 2620 C.E.	06:24:55	2678094	76.73049	2620	Apr 09	06:58:39	002023	LNU	Asc.	-1.0035	1.0201	0.1134	260	026	---	5.8S	96.3W	13 01 2620 C.E.
15884	Oct 03 2620 C.E.	10:00:01	2678271	33.33441	2620	Oct 03	10:33:46	002026	LNN	Asc.	1.0975	0.8738	-0.1848	262	---	5.2N	56.8E	14 07 2620 C.E.	
15885	Feb 28 2621 C.E.	20:35:07	2678448	94.10581	2621	Feb 28	11:08:55	002028	LPU	Dec.	0.9813	1.0401	0.0743	247	043	---	8.9N	155.4W	14 12 2621 C.E.
15886	Aug 24 2621 C.E.	05:20:25	2678595	72.25081	2621	Aug 24	05:54:15	002030	LNN	Asc.	-1.0327	0.9968	-0.0699	281	---	11.8S	78.8W	13 06 2621 C.E.	
15887	Feb 18 2622 C.E.	01:58:57	2678773	58.26085	2622	Feb 18	02:32:49	002033	LTU	Dec.	0.3202	2.2652	1.2758	321	202	073	12.1N	26.4E	15 12 2622 C.E.
15888	Aug 13 2622 C.E.	09:32:04	2678949	89.27659	2622	Aug 13	10:06:01	002035	LTU	Asc.	-0.2405	2.4273	1.4063	347	220	089	14.8S	141.4E	13 05 2622 C.E.
15889	Feb 07 2623 C.E.	12:51:13	2679128	03.55717	2623	Feb 07	13:25:09	002038	LTU	Dec.	-0.3886	2.1677	1.1226	341	207	053	15.1N	170.3E	14 11 2623 C.E.
15890	Aug 02 2623 C.E.	21:01:31	2679304	37.61413	2623	Aug 02	21:35:41	002041	LPU	Asc.	0.5288	1.8710	0.9042	308	181	---	17.1S	46.3E	13 05 2623 C.E.
15891	Jan 27 2624 C.E.	16:22:36	2679482	18.13143	2624	Jan 27	16:56:40	002043	LNN	Dec.	-1.1168	0.8569	-0.2384	266	---	17.6N	116.8E	15 11 2624 C.E.	
15892	Jun 23 2624 C.E.	06:45:33	2679629	78.16275	2624	Jun 23	07:19:38	002045	LNN	Asc.	-1.2525	0.5321	-0.4128	186	---	24.6S	100.3W	14 04 2624 C.E.	
15893	Jul 22 2624 C.E.	13:26:41	2679659	06.02022	2624	Jul 22	14:00:47	0											

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)			Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (minutes)		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar	
		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Pen.						Par.	Pen.	Tot.	Lat.	Lon.	Day	Month	Year
15944	Apr 11 2647 C.E.	12:52:16	2687957.0362909	2647 Apr 11 13:28:21	002164	LTU	Asc.	-0.4124	2.0956	1.1071	320	197	048	8.7S	167.1E	13 01	2647 C.E.
15945	Oct 05 2647 C.E.	23:06:17	26888314.4626965	2647 Oct 05 23:42:23	002167	LTU	Dec.	0.4277	2.1100	1.0371	357	211	031	5.3N	10.5E	14 07	2647 C.E.
15946	Mar 31 2648 C.E.	04:02:14	26888314.6682167	2648 Mar 31 04:38:23	002169	LTU	Asc.	0.2995	2.2883	1.3282	313	197	077	4.0S	59.5W	14 01	2648 C.E.
15947	Sep 23 2648 C.E.	23:13:47	2688488.4679066	2648 Sep 23 23:50:00	002172	LTU	Dec.	-0.3051	2.3376	1.2597	368	224	077	0.3N	9.8E	14 07	2648 C.E.
15948	Mar 20 2649 C.E.	20:05:16	2688866.3369896	2649 Mar 20 20:41:30	002174	LPU	Asc.	0.9964	1.0176	0.0419	249	029	---	0.9N	60.7E	15 01	2649 C.E.
15949	Sep 13 2649 C.E.	02:08:43	2688842.5893892	2649 Sep 13 02:45:01	002177	LNN	Dec.	-1.0296	0.9869	-0.0487	269	---	---	4.6S	32.7W	13 07	2649 C.E.
15950	Feb 08 2650 C.E.	17:33:30	2688991.2315983	2650 Feb 08 18:09:49	002179	LNN	Asc.	-1.0934	0.8842	-0.1801	260	---	---	13.9N	99.6E	15 12	2650 C.E.
15951	Aug 04 2650 C.E.	04:15:08	2689167.6771707	2650 Aug 04 04:51:30	002182	LPU	Dec.	0.8606	1.2555	0.3018	268	106	---	16.3S	62.1W	13 05	2650 C.E.
15952	Jan 28 2651 C.E.	18:56:25	2689345.2891775	2651 Jan 28 19:32:49	002184	LTU	Asc.	-0.4315	2.1186	1.0151	364	211	020	17.8N	78.7E	14 11	2651 C.E.
15953	Jul 24 2651 C.E.	21:19:25	2689522.3884782	2651 Jul 24 21:55:51	002187	LTU	Dec.	0.1192	2.6100	1.6680	317	204	096	19.5S	42.1E	14 05	2651 C.E.
15954	Jan 17 2652 C.E.	18:11:48	2689699.2581914	2652 Jan 17 18:48:18	002189	LTU	Asc.	0.2500	2.4453	1.3541	368	225	086	21.0N	89.2E	14 11	2652 C.E.
15955	Jul 13 2652 C.E.	13:15:46	2689877.0526119	2652 Jul 13 13:52:17	002192	LPU	Dec.	-0.6410	1.6684	0.6952	301	165	---	22.2S	163.0E	14 04	2652 C.E.
15956	Jan 05 2653 C.E.	22:42:10	2690053.4459487	2653 Jan 05 23:18:46	002195	LPU	Asc.	0.9213	1.1868	0.1487	282	088	---	23.3N	20.5E	13 10	2653 C.E.
15957	Jun 03 2653 C.E.	10:41:30	2690201.9454909	2653 Jun 03 11:18:07	002197	LNN	Dec.	1.3049	0.4919	-0.5639	205	---	---	21.2S	160.2W	14 03	2653 C.E.
15958	Jul 02 2653 C.E.	23:40:51	2690201.9454909	2653 Jul 03 00:17:28	002197	LNN	Dec.	-1.4619	0.1896	-0.8379	127	---	---	24.2S	6.2E	15 04	2653 C.E.
15959	Nov 26 2653 C.E.	23:49:37	2690378.4927871	2653 Nov 27 00:26:16	002199	LNN	Asc.	-1.1326	0.7633	-0.2039	218	---	---	19.9N	0.4W	14 09	2653 C.E.
15960	Dec 26 2653 C.E.	10:23:29	2690407.9329754	2653 Dec 26 11:00:09	002200	LNN	Asc.	1.5370	0.0304	-0.9549	047	---	---	24.8N	156.2W	13 10	2653 C.E.
15961	May 23 2654 C.E.	11:32:30	2690555.9809027	2654 May 23 12:09:12	002202	LPU	Dec.	0.5780	1.8359	0.7598	349	192	---	20.1S	173.5W	13 03	2654 C.E.
15962	Nov 16 2654 C.E.	15:46:18	2690733.1571510	2654 Nov 16 16:23:01	002204	LTU	Asc.	-0.4662	1.9897	1.0154	309	186	019	18.3N	119.6E	15 09	2654 C.E.
15963	May 12 2655 C.E.	13:24:51	2690910.0589213	2655 May 12 14:01:40	002207	LTU	Dec.	-0.1797	2.5523	1.5047	359	226	096	18.3S	158.0E	13 02	2655 C.E.
15964	Nov 06 2655 C.E.	04:36:37	2690907.6920909	2655 Nov 06 05:13:24	002210	LTU	Asc.	0.2453	2.4176	1.3985	340	215	086	16.0N	73.4W	14 08	2655 C.E.
15965	Apr 30 2656 C.E.	21:55:49	2691264.4137581	2656 Apr 30 22:32:41	002212	LPU	Dec.	-0.9075	1.1903	0.1955	273	096	---	15.9S	30.1E	13 02	2656 C.E.
15966	Oct 25 2656 C.E.	10:41:39	2691441.9455910	2656 Oct 25 11:18:34	002215	LNT	Asc.	1.0074	1.0450	-0.0250	283	---	---	13.1N	164.8W	14 08	2656 C.E.
15967	Mar 22 2657 C.E.	03:38:32	2691589.6517544	2657 Mar 22 04:15:29	002217	LNN	Dec.	1.0231	0.9612	0.0000	239	---	---	0.3N	52.5W	14 01	2657 C.E.
15968	Sep 14 2657 C.E.	18:49:49	2691766.2845922	2657 Sep 14 19:26:49	002220	LNN	Asc.	-1.1750	0.7364	-0.3315	247	---	---	4.0S	77.1E	14 07	2657 C.E.
15969	Mar 11 2658 C.E.	19:00:29	2691944.2920057	2658 Mar 11 19:37:30	002222	LTU	Dec.	0.3540	2.2034	1.2136	321	201	066	3.9N	77.4E	15 13	2658 C.E.
15970	Sep 03 2658 C.E.	23:40:17	2692120.4863093	2658 Sep 04 00:17:24	002225	LTU	Asc.	-0.3839	2.1626	1.1447	338	208	058	7.5S	5.1E	13 06	2658 C.E.
15971	Mar 01 2659 C.E.	05:23:50	2692298.7248801	2659 Mar 01 06:00:56	002228	LTU	Dec.	-0.3649	2.2125	1.1650	345	210	061	7.4N	78.2W	15 12	2659 C.E.
15972	Aug 24 2659 C.E.	11:48:33	2692474.9920524	2659 Aug 24 12:25:45	002230	LTU	Asc.	0.3831	2.1371	1.1728	316	195	060	10.6S	176.4W	13 06	2659 C.E.
15973	Feb 18 2660 C.E.	08:22:44	2692652.8491197	2660 Feb 18 08:59:57	002233	LNN	Dec.	-1.0959	0.8955	-0.2002	271	---	---	10.9N	122.9W	14 12	2660 C.E.
15974	Jul 14 2660 C.E.	21:39:30	2692800.1024322	2660 Jul 14 22:16:45	002235	LNN	Asc.	-1.3979	0.2660	-0.6804	135	---	---	22.7S	37.4E	14 04	2660 C.E.
15975	Apr 13 2660 C.E.	04:26:01	2692829.6847357	2660 Apr 13 05:03:16	002235	LNN	Asc.	1.0974	0.8150	-0.1268	223	---	---	13.3S	65.5W	13 05	2660 C.E.
15976	Jan 07 2661 C.E.	13:24:08	2692927.5987483	2661 Jan 07 14:01:26	002238	LNN	Dec.	1.2474	0.6086	-0.4695	225	---	---	13.4N	160.5E	13 10	2661 C.E.
15977	Jul 04 2661 C.E.	12:27:43	2693155.0192528	2661 Jul 04 13:05:02	002240	LPU	Asc.	-0.6988	1.5697	0.5818	301	158	---	23.4S	174.7E	14 04	2661 C.E.
15978	Dec 27 2661 C.E.	20:03:38	2693231.3358578	2661 Dec 27 20:41:02	002242	LPU	Dec.	0.5036	1.9445	0.9238	323	190	---	23.7N	59.1E	13 10	2661 C.E.
15979	Jun 23 2662 C.E.	20:50:29	2693509.3683942	2662 Jun 23 21:27:52	002245	LTU	Asc.	0.0661	2.7585	1.7154	362	230	104	23.3S	48.3E	15 04	2662 C.E.
15980	Dec 17 2662 C.E.	09:17:52	2693685.8874048	2662 Dec 17 09:55:21	002248	LTU	Dec.	-0.1956	2.4869	1.5113	320	205	090	23.1N	140.8W	13 10	2662 C.E.
15981	Jun 12 2663 C.E.	22:38:43	2693863.4435577	2663 Jun 12 23:16:14	002251	LPU	Asc.	0.8394	1.3544	0.2819	318	126	---	22.4S	20.6E	14 03	2663 C.E.
15982	Dec 07 2663 C.E.	01:08:14	2694040.5173858	2663 Dec 07 01:45:46	002252	LPU	Dec.	-0.8640	1.2585	0.2867	267	106	---	21.6N	19.5W	14 09	2663 C.E.
15983	May 02 2664 C.E.	10:22:24	2694187.9322257	2664 May 02 11:00:00	002255	LNN	Asc.	-1.2396	0.6010	-0.4337	217	---	---	16.7S	156.5W	13 02	2664 C.E.
15984	May 31 2664 C.E.	23:48:18	2694219.9491808	2664 Jun 01 00:25:53	002255	LNN	Asc.	1.5565	0.0288	-1.0242	051	---	---	20.6S	2.8E	13 03	2664 C.E.
15985	Oct 27 2664 C.E.	02:07:32	2694365.5885622	2664 Oct 27 02:45:09	002257	LNN	Dec.	1.1726	0.7231	-0.3099	233	---	---	13.9N	36.2W	14 08	2664 C.E.
15986	Apr 21 2665 C.E.	20:47:14	2694542.1661290	2665 Apr 21 21:24:54	002259	LTU	Asc.	-0.4529	2.0184	1.0355	316	192	028	12.6S	47.8E	13 02	2665 C.E.
15987	Oct 16 2665 C.E.	06:17:27	2694719.7621213	2665 Oct 16 06:55:03	002262	LPU	Dec.	0.4801	2.0165	0.9386	355	205	---	9.4N	98.1W	14 08	2665 C.E.
15988	Apr 11 2666 C.E.	12:15:47	2694897.0109656	2666 Apr 11 12:53:33	002265	LPU	Asc.	0.2646	2.3508	1.3940	314	199	082	8.1S	176.4E	13 01	2666 C.E.
15989	Oct 05 2666 C.E.	06:14:04	2695073.7597713	2666 Oct 05 06:51:53	002268	LTU	Dec.	-0.2457	2.4476	1.3677	370	228	088	4.6N	96.2W	13 07	2666 C.E.
15990	Apr 01 2667 C.E.	04:21:46	2695201.6817805	2667 Apr 01 04:59:36	002270	LPU	Asc.	0.9700	1.0656	0.0906	254	056	---	3.5S	64.2W	14 01	2667 C.E.
15991	Sep 24 2667 C.E.	09:22:36	2695427.8906992	2667 Sep 24 10:00:30	002273	LPU	Dec.	-0.9667	1.1020	0.0668	280	061	---	0.4S	142.2W	13 07	2667 C.E.
15992	Feb 20 2668 C.E.	01:44:31	2695576.5725775	2668 Feb 20 02:22:25	002275	LNN	Asc.	-1.1073	0.8593	-0.2060	257	---	---	10.2N	23.5W	15 12	2668 C.E.
15993	Aug 14 2668 C.E.	11:41:56	2695752.9874481	2668 Aug 14 12:19:54	002278	LPU	Dec.	0.9291	1.1295	0.1767	257	077	---	13.0S	174.2W	13 06	2668 C.E.
15994	Feb 08 2669 C.E.	02:54:54	2695930.6214549	2669 Feb 08 03:32:53	002280	LTU	Asc.	-0.4424	2.0982	0.9952	364	210	---	14.6N	40.6W	14 12	2669 C.E.
15995	Aug 04 2669 C.E.	04:47:07	2696107.6993910	2669 Aug 04 05:25:10	002283	LTU	Dec.	0.1927	2.4759	1.5325	315	202	091	16.8S	69.9W	14 05	2669 C.E.
15996	Jan 28 2670 C.E.	02:19:28	2696284.5968474	2670 Jan 28 02:57:35	002285	LTU	Asc.	0.2421	2.4585	1.3698	367	225	087	18.5N	32.0W	13 11	2670 C.E.
15997	Jul 24 2670 C.E.	20:28:10	2696462.3528926	2670 Jul 24 21:06:17	002288	LPU	Dec.	-0.5662	1.8072	0.8308	309	178	---	20.1S	55.0E	15 05	2670 C.E.
15998	Jan 17 2671 C.E.	07:11:57	2696638.7999650	2671 Jan 17 07:50:09	002291	LPU	Asc.	0.9141	1.1986	0.1633	282	092	---	21.6N	105.8W	13 11	2671 C.E.
15999	Jun 14 2671 C.E.	17:24:39	2696787.2254503	2671 Jun 14 18:02:52	002293	LNN	Dec.	1.3836	0.3477	-0.7085	175	---	---	22.0S	99.5E	15 03	2671 C.E.
16000	Jul 14 2671 C.E.	06:28:26	2696816.7697483	2671 Jul 14 07:06:39	002293	LNN	Dec.	-1.3876	0.3273	-0.7032	165	---	---	22.8S	95.2W	14 04	2671 C.E.
16001	Dec 08 2671 C.E.	08:27:53	2696963.8527001	2671 Dec 08 09:06:09	002296	LNN	Asc.	-1.1461	0.7392	-0.2292	215	---	---	21.4N	129.1W	13 09	2671 C.E.
16002	Jan 06 2672 C.E.	19:08:34	2696993.5976114	2672 Jan 06 19:46:49	002296	LNN	Asc.	1.5285	0.0455	-0.9387	058	---	---	24.0N	74.0E	14 10	2672 C.E.
16003	Jun 02 2672 C.E.																

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse	Astronomical Julian Date (UT)	Astronomical Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase		Greatest in Zenith		Hebrew Date and Creation Calendar
											Pen.	Par.	Lat.	Lon.	
16051	Nov 16 2692 C.E.	01:52:09	2704612.5778777	2692 Nov 16 02:32:19	002411	LPU	Asc.	0.9419	1.1704	0.0898	298	072	---	19.6N 32.3W	14 09 2692 C.E.
16052	Apr 12 2693 C.E.	00:12:30	2704760.3420119	2693 Apr 12 00:52:43	002413	LNN	Dec.	1.0893	0.8373	-0.1191	226	---	---	8.1S 57.6E	14 01 2693 C.E.
16053	May 12 2693 C.E.	20:12:14	2704789.6807223	2693 May 12 05:00:28	002414	LNN	Dec.	-1.4658	0.1437	-0.8070	100	---	---	19.6S 66.3W	14 02 2693 C.E.
16054	Oct 06 2693 C.E.	08:52:04	2704936.8694077	2693 Oct 06 09:32:20	002416	LNN	Asc.	-1.2917	0.5232	-0.5466	212	---	---	4.3N 135.4W	13 07 2693 C.E.
16055	Apr 02 2694 C.E.	11:32:14	2705114.9807154	2694 Apr 02 12:12:31	002419	LTU	Dec.	0.4106	2.0992	1.1098	320	197	049	4.7S 172.0W	14 01 2694 C.E.
16056	Sep 25 2694 C.E.	14:17:32	2705291.0955050	2694 Sep 25 14:57:54	002421	LPU	Asc.	-0.5064	1.9370	0.9208	328	193	---	0.7N 143.9E	12 07 2694 C.E.
16057	Mar 22 2695 C.E.	21:26:56	2705469.3937075	2695 Mar 22 22:07:18	002424	LTU	Dec.	-0.3199	2.2955	-1.2472	349	215	073	1.1S 39.7E	15 01 2695 C.E.
16058	Sep 15 2695 C.E.	02:57:42	2705645.6234083	2695 Sep 15 03:38:11	002427	LTU	Asc.	0.2537	2.3742	1.4105	320	203	085	2.7S 45.5W	13 07 2695 C.E.
16059	Mar 10 2696 C.E.	23:58:35	2705823.4990207	2696 Mar 11 00:39:05	002430	LNN	Dec.	-1.0566	0.9665	-0.1269	280	---	---	2.7N 2.2E	14 13 2696 C.E.
16060	Sep 03 2696 C.E.	19:37:42	2706000.3178449	2696 Sep 03 20:18:14	002433	LPU	Asc.	0.9661	1.0580	0.1123	248	051	---	6.0S 65.1E	14 06 2696 C.E.
16061	Jan 29 2697 C.E.	05:50:27	2706147.7433678	2697 Jan 29 06:31:01	002434	LNN	Dec.	1.2559	0.5902	-0.4824	220	---	---	18.9N 84.3W	13 11 2697 C.E.
16062	Jul 26 2697 C.E.	02:40:28	2706325.6114399	2697 Jul 26 03:21:05	002437	LPU	Asc.	-0.8574	1.2820	0.2874	284	117	---	20.0S 37.8W	15 05 2697 C.E.
16063	Jan 18 2698 C.E.	13:13:26	2706502.0509941	2698 Jan 18 13:54:07	002440	LPU	Dec.	0.5115	1.9274	0.9117	320	188	---	20.9N 164.0E	13 11 2698 C.E.
16064	Jul 15 2698 C.E.	10:10:18	2706679.9238161	2698 Jul 15 10:50:59	002443	LTU	Asc.	-0.1004	2.6978	1.6503	364	231	103	21.4S 150.6W	14 05 2698 C.E.
16065	Jan 08 2699 C.E.	02:51:30	2706856.6191327	2699 Jan 08 03:32:17	002446	LPU	Dec.	-0.1816	2.5122	1.5372	319	205	091	22.0N 41.7W	13 11 2699 C.E.
16066	Jul 04 2699 C.E.	11:33:29	2707033.9815909	2699 Jul 04 12:14:17	002448	LPU	Asc.	0.6707	1.6628	0.5925	339	174	---	22.1S 172.0W	13 04 2699 C.E.
16067	Dec 28 2699 C.E.	18:34:27	2707211.2739197	2699 Dec 28 19:15:17	002451	LPU	Dec.	-0.8477	1.2910	0.3139	270	113	---	22.3N 81.3E	14 10 2699 C.E.
16068	May 25 2700 C.E.	00:51:16	2707358.5356049	2700 May 25 01:32:09	002453	LNN	Asc.	-1.3505	0.3916	-0.6311	177	---	---	22.1S 13.4W	13 03 2700 C.E.
16069	Jun 23 2700 C.E.	13:18:37	2707388.0545948	2700 Jun 23 13:59:31	002454	LNN	Asc.	1.3996	0.3123	-0.7319	164	---	---	22.0S 161.2E	14 04 2700 C.E.
16070	Nov 18 2700 C.E.	17:53:58	2707536.2458143	2700 Nov 18 18:34:54	002456	LNN	Dec.	1.2375	0.6101	-0.4349	218	---	---	20.3N 87.4E	15 09 2700 C.E.
16071	May 14 2701 C.E.	12:17:12	2707713.0119459	2701 May 14 12:58:12	002459	LPU	Asc.	-0.5522	1.8308	0.8585	306	178	---	19.1S 174.9E	13 02 2701 C.E.
16072	Nov 07 2701 C.E.	04:21:09	2707890.3787778	2701 Nov 07 05:02:11	002462	LPU	Dec.	0.5629	1.8693	0.7818	350	193	---	16.7N 39.7E	14 08 2701 C.E.
16073	May 04 2702 C.E.	04:04:07	2708067.6813327	2702 May 04 05:02:11	002464	LTU	Asc.	0.1763	2.5098	1.5590	316	202	092	15.6S 65.9W	14 02 2702 C.E.
16074	Oct 27 2702 C.E.	20:40:30	2708244.3614534	2702 Oct 27 21:21:38	002467	LTU	Dec.	-0.1469	2.6306	1.5470	373	232	099	12.6N 45.9E	14 08 2702 C.E.
16075	Apr 23 2703 C.E.	20:31:37	2708422.3552859	2703 Apr 23 21:12:46	002470	LPU	Asc.	0.8997	1.1939	0.2202	266	095	---	11.5S 52.0E	15 02 2703 C.E.
16076	Oct 17 2703 C.E.	00:16:39	2708598.5115627	2703 Oct 17 00:57:52	002472	LPU	Dec.	-0.8597	1.2981	0.2633	295	116	---	8.0N 7.5E	13 08 2703 C.E.
16077	Mar 13 2704 C.E.	17:45:31	2708775.2399448	2704 Mar 13 18:26:46	002475	LNN	Asc.	-1.1501	0.7810	-0.2851	249	---	---	1.8N 95.5E	15 13 2704 C.E.
16078	Sep 06 2704 C.E.	02:48:48	2708923.6172186	2704 Sep 06 03:30:06	002478	LNN	Dec.	1.0559	0.8967	-0.0560	234	---	---	5.4S 42.6W	13 06 2704 C.E.
16079	Oct 05 2704 C.E.	11:17:19	2708952.9703614	2704 Oct 05 11:58:37	002478	LNN	Dec.	-1.5218	0.0543	-0.9231	064	---	---	3.3N 171.7W	13 07 2704 C.E.
16080	Mar 02 2705 C.E.	18:37:13	2709101.2758504	2705 Mar 02 19:18:34	002481	LPU	Asc.	-0.4756	2.0358	0.9358	361	206	---	6.8N 83.4E	14 12 2705 C.E.
16081	Aug 26 2705 C.E.	19:49:28	2709278.3260170	2705 Aug 26 20:30:50	002483	LPU	Dec.	0.3329	2.2210	1.2731	312	195	072	9.9S 63.3E	14 06 2705 C.E.
16082	Feb 19 2706 C.E.	18:26:54	2709455.2686828	2706 Feb 19 19:08:22	002486	LTU	Asc.	0.2188	2.4978	1.4161	366	226	091	11.6N 86.5E	14 12 2706 C.E.
16083	Aug 16 2706 C.E.	10:55:21	2709632.9551016	2706 Aug 16 11:36:48	002489	LPU	Dec.	-0.4214	2.0770	1.0926	268	046	---	14.1S 162.3W	14 06 2706 C.E.
16084	Feb 09 2707 C.E.	00:10:09	2709809.5070451	2707 Feb 09 00:51:41	002491	LPU	Asc.	0.8974	1.2255	0.1975	282	100	---	15.9N 0.8E	13 12 2707 C.E.
16085	Jul 07 2707 C.E.	06:34:31	2709957.7739690	2707 Jul 07 07:16:04	002494	LNN	Dec.	-1.5504	0.0257	-1.0157	063	---	---	21.1S 97.0W	14 04 2707 C.E.
16086	Aug 05 2707 C.E.	19:57:30	2709987.3315992	2707 Aug 05 20:39:04	002494	LNN	Dec.	-1.2359	0.6094	-0.4283	221	---	---	18.0S 62.7E	15 05 2707 C.E.
16087	Dec 31 2707 C.E.	01:58:31	2710134.5823085	2707 Dec 31 02:40:07	002496	LNN	Asc.	-1.1623	0.7102	-0.2599	211	---	---	21.9N 29.4W	14 10 2707 C.E.
16088	Jan 29 2708 C.E.	12:42:17	2710164.0293620	2708 Jan 29 13:23:54	002497	LNN	Asc.	1.5145	0.0694	-0.9112	071	---	---	19.7N 172.5E	13 11 2708 C.E.
16089	Jun 25 2708 C.E.	07:15:47	2710311.8026257	2708 Jun 25 07:57:26	002499	LPU	Dec.	0.8148	1.3974	0.3292	320	135	---	22.6S 107.8W	13 04 2708 C.E.
16090	Dec 19 2708 C.E.	17:26:49	2710489.2269577	2708 Dec 19 18:08:30	002502	LPU	Dec.	-0.5144	1.9069	0.9213	308	182	---	22.8N 97.3E	15 10 2708 C.E.
16091	Jun 14 2709 C.E.	10:21:28	2710665.9315755	2709 Jun 14 11:03:16	002505	LPU	Asc.	0.0326	2.8141	1.7826	356	228	104	23.2S 154.9W	13 03 2709 C.E.
16092	Dec 09 2709 C.E.	05:04:39	2710843.7115579	2709 Dec 09 05:46:23	002507	LTU	Asc.	0.1821	2.5420	1.5062	346	219	093	22.8N 78.5W	14 09 2709 C.E.
16093	Jun 03 2710 C.E.	20:28:22	2711020.3530317	2710 Jun 03 21:10:13	002510	LPU	Dec.	-0.7219	1.5227	0.5441	294	150	---	23.0S 52.6E	13 03 2710 C.E.
16094	Nov 28 2710 C.E.	09:37:39	2711197.9011459	2710 Nov 28 10:19:32	002513	LPU	Asc.	0.9183	1.2161	0.1307	303	087	---	21.9N 148.0W	14 09 2710 C.E.
16095	Apr 25 2711 C.E.	04:17:45	2711345.7879947	2711 Apr 25 04:59:40	002515	LNN	Dec.	-1.1317	0.7584	-0.1958	217	---	---	11.8S 64.3W	14 02 2711 C.E.
16096	May 24 2711 C.E.	12:05:41	2711375.0039452	2711 May 24 12:47:37	002516	LNN	Dec.	-1.4089	0.2464	-0.7013	130	---	---	22.0S 177.6E	13 03 2711 C.E.
16097	Oct 18 2711 C.E.	16:07:27	2711522.1718398	2711 Oct 18 16:49:25	002518	LNN	Asc.	-1.3388	0.4373	-0.6335	195	---	---	8.3N 115.1E	14 08 2711 C.E.
16098	Jan 13 2712 C.E.	19:34:40	2711700.3157364	2712 Jan 13 20:16:39	002521	LTU	Dec.	0.4991	2.0286	1.0393	318	193	030	8.8S 66.7E	15 01 2712 C.E.
16099	Oct 06 2712 C.E.	21:49:59	2711876.4097052	2712 Oct 06 22:32:04	002524	LPU	Asc.	-0.5571	1.8438	0.8281	323	186	---	4.9N 29.9E	13 07 2712 C.E.
16100	Apr 03 2713 C.E.	05:14:50	2712054.7186363	2713 Apr 03 05:56:55	002527	LTU	Dec.	-0.2873	2.3552	1.3069	351	218	080	5.4S 78.0W	15 01 2713 C.E.
16101	Sep 26 2713 C.E.	10:42:22	2712230.9460845	2713 Sep 26 11:24:32	002529	LPU	Asc.	0.1968	2.4788	1.5147	321	206	091	1.4N 162.7W	13 07 2713 C.E.
16102	Mar 23 2714 C.E.	07:34:38	2712408.8157188	2714 Mar 23 08:16:50	002532	LNT	Dec.	-1.0277	1.0186	-0.0730	286	---	---	1.6S 112.5W	14 01 2714 C.E.
16103	Sep 16 2714 C.E.	03:21:12	2712585.6937200	2714 Sep 16 04:03:26	002535	LPU	Asc.	0.9068	1.1681	0.2198	257	086	---	2.0S 51.7W	14 07 2714 C.E.
16104	Feb 10 2715 C.E.	14:01:35	2712733.0844380	2715 Feb 10 14:43:53	002537	LNN	Dec.	1.2626	0.5760	-0.4928	217	---	---	15.6N 153.3E	13 12 2715 C.E.
16105	Aug 07 2715 C.E.	09:45:15	2712910.9064233	2715 Aug 07 10:27:34	002540	LPU	Asc.	-0.9365	1.1390	0.1403	273	084	---	17.3S 144.1W	14 05 2715 C.E.
16106	Jan 30 2716 C.E.	21:50:04	2713087.4097641	2716 Jan 30 22:32:27	002542	LPU	Dec.	0.5151	1.9192	0.9067	319	188	---	18.3N 35.6E	13 11 2716 C.E.
16107	Jul 26 2716 C.E.	16:46:20</													

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar	Date on the Calendar
16158	May 25 2738 C.E.	19:58:37	2721238.3323698	2738 May 25 20:43:07	002671	LTU	Asc.	0.0642	2.7131	1.7669 317	205 098	20.9S 59.9E	14 03 2738 C.E.	
16159	Nov 18 2738 C.E.	11:44:56	2721494.9895395	2738 Nov 18 12:29:32	002674	LTU	Dec.	-0.0775	2.7595	1.6728 373	233 103	19.0N 179.9E	13 09 2738 C.E.	
16160	May 15 2739 C.E.	12:07:22	2721593.0051189	2739 May 15 12:51:59	002677	LPU	Asc.	0.8038	1.3696	0.3967 281	128 ---	18.0S 177.6E	14 02 2739 C.E.	
16161	Nov 07 2739 C.E.	15:48:55	2721769.1589711	2739 Nov 07 16:33:36	002680	LPU	Dec.	-0.7806	1.4431	0.4086 304	141 ---	15.4N 118.7E	13 08 2739 C.E.	
16162	Apr 04 2740 C.E.	09:13:23	2721917.8842929	2740 Apr 04 09:58:04	002682	LNN	Asc.	-1.2163	0.6593	-0.4061 232	---	6.8S 138.0W	14 01 2740 C.E.	
16163	Sep 27 2740 C.E.	18:19:42	2722094.2636770	2740 Sep 27 19:04:27	002685	LNN	Dec.	-1.1636	0.7000	-0.2546 210	---	3.1N 82.6E	13 07 2740 C.E.	
16164	Oct 27 2740 C.E.	03:16:15	2722123.6362818	2740 Oct 27 04:00:59	002685	LNN	Dec.	-1.4349	0.2143	-0.7640 125	---	11.3N 52.8W	13 08 2740 C.E.	
16165	Mar 24 2741 C.E.	09:51:55	2722271.9110509	2741 Mar 24 10:36:43	002688	LPU	Asc.	-0.5302	1.9330	0.8383 356	199 ---	1.8S 146.7W	14 01 2741 C.E.	
16166	Sep 17 2741 C.E.	11:07:53	2722448.9638057	2741 Sep 17 11:52:43	002691	LTU	Dec.	-0.4577	1.9954	1.0408 306	184 030	1.7S 168.3W	14 07 2741 C.E.	
16167	Mar 13 2742 C.E.	10:17:32	2722625.9288460	2742 Mar 13 11:02:27	002693	LTU	Asc.	0.1801	2.5641	1.4918 364	227 095	3.2N 152.1W	13 13 2742 C.E.	
16168	Sep 07 2742 C.E.	01:29:38	2722803.5622490	2742 Sep 07 02:14:32	002696	LTU	Dec.	-0.2856	2.3312	1.3368 333	211 081	6.4S 22.5W	14 06 2742 C.E.	
16169	Mar 02 2743 C.E.	16:57:53	2722980.2068661	2743 Mar 02 17:42:53	002699	LPU	Asc.	0.8699	1.2712	0.2525 284	111 ---	8.1N 108.6E	14 12 2743 C.E.	
16170	Aug 27 2743 C.E.	09:29:57	2723157.8957995	2743 Aug 27 10:14:59	002702	LNN	Dec.	-1.0886	0.8841	-0.1623 261	---	11.0S 141.5W	14 06 2743 C.E.	
16171	Jan 21 2744 C.E.	19:37:55	2723305.3179926	2744 Jan 21 20:22:59	002704	LNN	Asc.	-1.1724	0.6918	-0.2783 209	---	18.8N 67.7E	14 11 2744 C.E.	
16172	Feb 20 2744 C.E.	06:09:11	2723334.7563765	2744 Feb 20 06:54:16	002705	LNN	Asc.	1.4948	1.0288	-0.8726 086	---	12.7N 88.8W	13 12 2744 C.E.	
16173	Jul 16 2744 C.E.	20:09:50	2723482.3401602	2744 Jul 16 20:54:57	002707	LPU	Dec.	-0.9841	1.0848	0.0203 291	035 ---	20.2S 59.4E	14 05 2744 C.E.	
16174	Jan 10 2745 C.E.	10:52:16	2723569.9529674	2745 Jan 10 11:37:26	002710	LPU	Asc.	-0.5293	1.8826	0.8912 309	182 ---	21.4N 161.7W	14 11 2745 C.E.	
16175	Jul 06 2745 C.E.	00:04:57	2723836.5034366	2745 Jul 06 00:50:12	002713	LTU	Dec.	0.1897	2.5214	1.4987 350	223 095	22.4S 0.4E	13 04 2745 C.E.	
16176	Dec 30 2745 C.E.	21:45:52	2724014.4068486	2745 Dec 30 22:31:05	002716	LTU	Asc.	0.1626	2.5822	1.5375 350	221 095	23.2N 33.8E	15 10 2745 C.E.	
16177	Jun 25 2746 C.E.	11:10:28	2724190.9656006	2746 Jun 25 11:55:48	002719	LPU	Dec.	-0.5784	1.7816	0.8116 305	174 ---	23.9S 166.6W	13 04 2746 C.E.	
16178	Dec 20 2746 C.E.	01:26:17	2724368.9599157	2746 Dec 20 02:11:39	002722	LPU	Asc.	0.8870	1.2776	0.1844 310	103 ---	24.1N 22.8W	14 01 2746 C.E.	
16179	May 16 2747 C.E.	20:05:57	2724516.3374656	2747 May 16 20:51:21	002724	LNN	Dec.	1.2348	0.5674	-0.3832 191	---	17.9S 58.3E	14 02 2747 C.E.	
16180	Jun 15 2747 C.E.	03:20:36	2724545.3930448	2747 Jun 15 04:06:01	002725	LNN	Dec.	-1.2817	0.4775	-0.4655 176	---	24.5S 49.9W	14 03 2747 C.E.	
16181	Nov 09 2747 C.E.	07:06:50	2724692.7964117	2747 Nov 09 07:52:18	002727	LNN	Asc.	-1.4115	0.3048	-0.7677 164	---	15.4N 110.4W	13 08 2747 C.E.	
16182	Dec 09 2747 C.E.	00:39:09	2724722.5219033	2747 Dec 09 01:24:37	002728	LNN	Asc.	1.5631	0.0391	-1.0582 062	---	24.0N 12.5W	13 09 2747 C.E.	
16183	May 05 2748 C.E.	11:14:27	2724870.9683676	2748 May 05 11:59:56	002730	LPU	Dec.	-0.5450	1.8527	0.8634 313	183 ---	15.9S 169.0W	14 02 2748 C.E.	
16184	Oct 28 2748 C.E.	13:21:57	2725040.0690940	2748 Oct 28 14:07:30	002732	LPU	Asc.	-0.6389	1.6934	0.6782 313	171 ---	12.7N 155.7E	12 08 2748 C.E.	
16185	Apr 24 2749 C.E.	20:21:45	2725225.3484409	2749 Apr 24 21:07:18	002735	LTU	Dec.	-0.2004	2.5146	1.4665 357	224 093	13.2S 54.1E	15 02 2749 C.E.	
16186	Oct 18 2749 C.E.	02:35:50	2725401.4068184	2749 Oct 18 03:21:29	002738	LPU	Asc.	0.1018	2.6541	1.6882 322	208 097	9.6N 42.7W	13 08 2749 C.E.	
16187	Apr 13 2750 C.E.	22:20:33	2725579.4309322	2750 Apr 13 23:06:13	002741	LPU	Dec.	-0.9488	1.1610	0.0740 301	067 ---	9.9S 24.6E	14 01 2750 C.E.	
16188	Oct 07 2750 C.E.	19:05:26	2725756.2954375	2750 Oct 07 19:51:10	002744	LPU	Asc.	0.8029	1.3619	0.4071 273	123 ---	6.3N 70.3E	14 07 2750 C.E.	
16189	Mar 04 2751 C.E.	06:14:51	2725903.7603128	2751 Mar 04 07:00:38	002747	LNN	Dec.	-1.2850	0.5303	-0.5292 208	---	7.8N 90.4W	13 12 2751 C.E.	
16190	Aug 28 2751 C.E.	23:58:37	2726081.4990411	2751 Aug 29 00:44:26	002749	LNN	Asc.	-1.0883	0.8652	-0.1430 247	---	10.4S 1.4E	15 06 2751 C.E.	
16191	Feb 21 2752 C.E.	14:56:12	2726258.7232569	2752 Feb 21 15:42:05	002752	LPU	Dec.	-0.5299	1.8880	0.8835 315	185 ---	11.2N 139.3E	13 12 2752 C.E.	
16192	Aug 17 2752 C.E.	05:58:59	2726435.1492958	2752 Aug 17 06:44:53	002755	LPU	Asc.	-0.3533	2.2386	1.1814 359	218 066	13.5S 88.2W	14 06 2752 C.E.	
16193	Feb 10 2753 C.E.	05:17:12	2726612.7202790	2753 Feb 10 06:03:11	002758	LTU	Dec.	-0.1639	2.5428	1.5717 318	205 092	14.3N 76.2W	14 12 2753 C.E.	
16194	Aug 06 2753 C.E.	06:46:31	2726789.8283036	2753 Aug 06 07:32:32	002761	LTU	Asc.	0.4075	2.1454	1.0759 362	215 045	16.2S 99.9W	13 05 2753 C.E.	
16195	Jan 30 2754 C.E.	20:55:52	2726967.3721318	2754 Jan 30 21:41:55	002764	LPU	Dec.	-0.8363	1.3143	0.3325 273	117 ---	16.8N 48.6E	15 11 2754 C.E.	
16196	Jun 26 2754 C.E.	22:02:27	2727114.4183685	2754 Jun 26 22:48:33	002766	LNN	Asc.	-1.5463	0.0244	-0.9829 045	---	24.7S 30.8E	13 04 2754 C.E.	
16197	Jul 26 2754 C.E.	09:25:40	2727143.8928293	2754 Jul 26 10:11:47	002767	LNN	Asc.	1.1479	0.7691	-0.2650 244	---	18.3S 139.7W	13 05 2754 C.E.	
16198	Dec 21 2754 C.E.	18:16:54	2727292.2617308	2754 Dec 21 19:03:03	002769	LNN	Dec.	1.2944	0.5133	-0.5469 204	---	24.5N 85.0E	15 10 2754 C.E.	
16199	Jun 16 2755 C.E.	10:52:57	2727468.9534331	2755 Jun 16 11:39:09	002772	LPU	Asc.	-0.7384	1.4825	0.5233 285	142 ---	24.0S 162.6W	13 04 2755 C.E.	
16200	Dec 10 2755 C.E.	20:08:12	2727646.3390234	2755 Dec 10 20:54:26	002775	LPU	Dec.	-0.6402	1.7333	0.6342 345	179 ---	23.4N 55.8E	14 10 2755 C.E.	
16201	Jun 05 2756 C.E.	03:39:36	2727823.6524984	2756 Jun 05 04:25:53	002778	LTU	Asc.	0.0018	2.8268	1.8823 317	205 099	22.5S 54.9W	14 03 2756 C.E.	
16202	Nov 28 2756 C.E.	19:28:56	2728000.3117574	2756 Nov 28 20:15:18	002781	LTU	Dec.	-0.0519	2.8071	1.7195 373	233 104	21.3N 64.5E	14 09 2756 C.E.	
16203	May 25 2757 C.E.	19:44:31	2728178.3225831	2757 May 25 20:30:54	002784	LPU	Asc.	0.7479	1.4725	0.4989 288	143 ---	20.3S 63.5E	15 03 2757 C.E.	
16204	Nov 17 2757 C.E.	23:48:45	2728354.4918184	2757 Nov 18 00:35:13	002787	LPU	Dec.	-0.7511	1.4972	0.4629 307	148 ---	18.3N 1.0W	13 09 2757 C.E.	
16205	Apr 15 2758 C.E.	16:42:15	2728503.1960104	2758 Apr 15 17:28:44	002789	LNN	Asc.	-1.2603	0.5783	-0.4864 220	---	10.9S 109.2E	15 01 2758 C.E.	
16206	May 15 2758 C.E.	06:39:30	2728532.7774305	2758 May 15 07:26:00	002790	LNN	Asc.	1.5528	0.0240	-1.0058 046	---	17.4S 100.3W	15 02 2758 C.E.	
16207	Oct 09 2758 C.E.	02:16:13	2728679.5945936	2758 Oct 09 03:02:45	002792	LNN	Dec.	1.2090	0.6175	-0.3386 199	---	7.3N 37.5W	13 07 2758 C.E.	
16208	Nov 07 2758 C.E.	11:28:43	2728708.8927115	2758 Nov 07 12:15:16	002793	LNN	Dec.	-1.4012	0.2763	-0.7025 140	---	14.8N 176.1W	13 08 2758 C.E.	
16209	Apr 04 2759 C.E.	17:16:35	2728857.2198546	2759 Apr 04 18:03:11	002795	LPU	Asc.	-0.5676	1.8627	0.7711 353	193 ---	6.1S 101.4E	14 01 2759 C.E.	
16210	Sep 28 2759 C.E.	18:55:55	2729034.2888327	2759 Sep 28 19:42:33	002798	LPU	Dec.	0.5122	1.8973	0.9388 303	179 ---	2.6N 73.7E	14 07 2759 C.E.	
16211	Mar 23 2760 C.E.	18:03:00	2729211.2520855	2760 Mar 23 18:49:43	002801	LTU	Asc.	0.1516	2.6137	1.5467 363	228 098	1.1S 90.8E	14 01 2760 C.E.	
16212	Sep 17 2760 C.E.	08:53:39	2729388.8705944	2760 Sep 17 09:40:21	002804	LPU	Dec.	-0.2246	2.4460	1.4460 336	215 090	2.2S 134.5W	14 07 2760 C.E.	
16213	Jan 13 2761 C.E.	01:14:40	2729565.5518508	2761 Jan 13 02:01:28	002807	LPU	Asc.	0.8499	1.3060	0.2927 285	119 ---	3.8N 16.2W	13 13 2761 C.E.	
16214	Sep 06 2761 C.E.	16:20:17	2729743.1807841	2761 Sep 06 17:07:06	002810	LNT	Dec.	-1.0189	1.0145	-0.0369 277	---	7.0S 115.0E	15 06 2761 C.E.	
16215	Feb 01 2762 C.E.	04:27:38	2729890.6858606	2762 Feb 01 05:14:31	002812	LNN	Asc.	-1.1776	0.6820	-0.2876 208	---	16.0N 64.2W	14 11 2762 C.E.	
16216	Mar 02 2762 C.E.	14:46:52	2729920.1158746	2762 Mar 02 15:33:45	002813	LNN	Asc.	1.4804	0.1276	-0.8446 095	---	8.7N 141.5E	13 12 2762 C.E.	
16217	Jul 28 2762 C.E.	02:37:08	2730067.6091258	2762 Jul 28 03:24:03	002815	LNN	Dec.	0.0681	0.9301	-0.1330 273	---	17.9S 37.4W	13 05 2762 C.E.	
16218	Jan 21 2763 C.E.	19:36:25	2730245.3169530	2763 Jan 21 20:23:22	002818	LPU	Asc.	-0.5347	1.8736	0.8801 309	181 ---	19.3N 68.2E	15 11 2763 C.E.	
16219	Jul 17 2763 C.E.	06:56:25	2730421.7891803	2763 Jul 17 07:43:28	002821	LTU	Dec.	0.2695	2.3731	1.3540 346	218 084	20.8S 102.1W	13 05 2763 C.E.	
16220	Jan 11 2764 C.E.	06:10:29	2730599.7572825	2764 Jan 11 06:57:31	002824	LTU	Asc.	0.1577	2.5931	1.5448 351	222 096	22.0N 91.2W	14 11 2764 C.E.	
16221	Jul 05 2764 C.E.	18:28:30	2730776.2697973	2764 Jul 05 19:15:38	002827	LPU	Dec.	-0.5030	1.9182	0.9518 310	184 ---	23.1S 84.5E	13 04 2764 C.E.	
16222	Dec 30 2764 C.E.	09:26:44	2730953.8935645	2764 Dec 30 10:13:53	002829	LPU	Asc.	0.8767	1.2979	0.2018 312	107 ---	23.9N 14		

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Data			Eclipse Phase (minutes)			Greatest in Zenith		Hebrew Date on the Creation Calendar		
		Date (UT)	Date (UT)			Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Durations Pen.	Par.	Tot.	Lat.	Lon.	Day
16265	Jul 17 2782 C.E.	01:46:20	2737361.5738371	2782 Jul 17 02:35:17	002936	LTU	Dec.	-0.4266	2.0569	1.0934	314	192	045	21.5S	24.5W	13 05 2782 C.E.
16266	Jan 10 2783 C.E.	17:28:50	2737539.2283567	2783 Jan 10 18:17:49	002939	LPU	Asc.	0.8680	1.3150	0.2167	315	111	---	22.7N	99.2E	15 11 2783 C.E.
16267	Jun 07 2783 C.E.	11:28:14	2737686.9779372	2783 Jun 07 12:17:15	002941	LNN	Dec.	1.3582	0.3400	-0.6087	152	---	---	21.3S	171.7W	14 03 2783 C.E.
16268	Jul 06 2783 C.E.	18:21:56	2737716.2652349	2783 Jul 06 19:10:58	002942	LNN	Dec.	-1.1429	0.7310	-0.2096	213	---	---	23.7S	86.2E	14 04 2783 C.E.
16269	Nov 30 2783 C.E.	22:42:44	2737863.4463393	2783 Nov 30 23:31:48	002944	LNN	Asc.	-1.4571	0.2215	-0.8518	141	---	---	20.3N	16.6E	13 09 2783 C.E.
16270	Dec 30 2783 C.E.	16:31:14	2737893.1883560	2783 Dec 30 17:20:18	002944	LNN	Asc.	1.5323	0.0960	-1.0022	096	---	---	24.5N	112.3E	14 10 2783 C.E.
16271	May 27 2784 C.E.	02:19:34	2738041.5969264	2784 May 27 03:08:40	002947	LPU	Dec.	0.6668	1.6298	0.6393	304	164	---	20.7S	35.1W	15 03 2784 C.E.
16272	Nov 19 2784 C.E.	05:30:50	2738217.7297487	2784 Nov 19 06:20:01	002950	LPU	Asc.	-0.6931	1.5937	0.5790	305	160	---	18.8N	86.3W	13 09 2784 C.E.
16273	May 16 2785 C.E.	10:50:14	2738395.9515545	2785 May 16 11:39:25	002953	LPU	Dec.	-0.0850	2.7264	1.6783	361	229	103	19.3S	163.2W	14 02 2785 C.E.
16274	Nov 08 2785 C.E.	19:01:13	2738572.2925118	2785 Nov 08 19:50:29	002956	LPU	Asc.	0.0321	2.7831	1.8149	322	208	099	16.7N	70.5E	13 08 2785 C.E.
16275	May 05 2786 C.E.	12:30:20	2738750.0210609	2786 May 05 13:19:38	002959	LPU	Dec.	-0.8410	1.3561	0.2744	319	125	---	17.0S	171.5E	14 02 2786 C.E.
16276	Oct 29 2786 C.E.	11:18:20	2738926.9710619	2786 Oct 29 12:07:41	002962	LPU	Asc.	0.7239	1.5107	0.5485	283	143	---	14.1N	174.0W	13 08 2786 C.E.
16277	Mar 25 2787 C.E.	22:07:06	2739074.4215978	2787 Mar 25 22:56:31	002965	LNN	Dec.	1.3266	0.4482	-0.6000	191	---	---	0.8S	30.2E	13 01 2787 C.E.
16278	Apr 24 2787 C.E.	13:04:40	2739104.0449023	2787 Apr 24 13:54:04	002965	LNN	Dec.	-1.5380	0.0690	-0.9965	080	---	---	14.1S	162.9E	13 02 2787 C.E.
16279	Sep 19 2787 C.E.	14:24:34	2739252.0039664	2787 Sep 19 15:14:02	002968	LNN	Asc.	-1.2257	0.6188	-0.4006	216	---	---	2.4S	143.1E	14 07 2787 C.E.
16280	Oct 19 2787 C.E.	01:39:45	2739281.5692691	2787 Oct 19 02:29:13	002968	LNN	Asc.	1.4714	0.1573	-0.8409	110	---	---	11.1N	129.3W	14 08 2787 C.E.
16281	Mar 14 2788 C.E.	07:47:06	2739428.8432771	2788 Mar 14 08:36:38	002971	LPU	Dec.	0.5601	1.8278	0.8327	310	180	---	2.9N	114.4W	13 13 2788 C.E.
16282	Sep 07 2788 C.E.	19:22:24	2739606.3072210	2788 Sep 07 20:11:57	002974	LPU	Asc.	-0.5099	1.9554	0.8901	351	201	---	5.9S	69.3E	14 06 2788 C.E.
16283	Mar 03 2789 C.E.	22:40:01	2739783.4444506	2789 Mar 03 23:29:38	002977	LPU	Dec.	-0.1390	2.5861	1.6195	318	205	094	6.4N	22.6E	14 12 2789 C.E.
16284	Aug 27 2789 C.E.	19:49:00	2739960.3256899	2789 Aug 27 20:38:40	002980	LPU	Asc.	0.2407	2.4520	1.3813	370	229	090	9.4S	63.3E	14 06 2789 C.E.
16285	Feb 21 2790 C.E.	14:20:37	2740138.0976474	2790 Feb 21 15:10:20	002983	LPU	Dec.	-0.8224	1.3404	0.3575	276	122	---	9.7N	147.5E	14 12 2790 C.E.
16286	Aug 16 2790 C.E.	23:02:50	2740314.4602988	2790 Aug 16 23:52:36	002986	LPU	Asc.	0.9835	1.0684	0.0386	277	046	---	12.5S	15.3E	13 06 2790 C.E.
16287	Jan 12 2791 C.E.	10:48:09	2740462.9510552	2791 Jan 12 11:37:57	002988	LNN	Dec.	1.3165	0.4764	-0.5911	199	---	---	22.8N	160.1W	14 11 2791 C.E.
16288	Feb 11 2791 C.E.	02:09:29	2740492.5899239	2791 Feb 11 02:59:20	002989	LNN	Dec.	-1.5668	0.0009	-1.0343	008	---	---	12.8N	29.8W	15 12 2791 C.E.
16289	Jul 08 2791 C.E.	01:42:18	2740639.2510403	2791 Jul 08 02:32:09	002991	LPU	Asc.	-0.8774	1.2245	0.2714	265	100	---	23.2S	23.6W	13 04 2791 C.E.
16290	Jan 01 2792 C.E.	11:58:15	2740816.9987866	2792 Jan 01 12:48:10	002995	LPU	Dec.	0.6683	1.6841	0.5804	343	173	---	23.5N	179.1W	14 10 2792 C.E.
16291	Jun 26 2792 C.E.	18:45:56	2740994.2819021	2792 Jun 26 19:35:53	002997	LPU	Dec.	-0.1364	2.5789	1.6360	316	203	095	23.3S	79.8E	14 04 2792 C.E.
16292	Dec 20 2792 C.E.	11:21:20	2741170.9731441	2792 Dec 20 12:11:20	003000	LPU	Dec.	-0.0185	2.8684	1.7805	372	232	104	23.3N	171.3W	13 10 2792 C.E.
16293	Jun 16 2793 C.E.	10:37:03	2741348.9423985	2793 Jun 16 11:27:05	003003	LPU	Asc.	0.6193	1.7095	0.7338	304	169	---	22.7S	158.7W	14 04 2793 C.E.
16294	Dec 09 2793 C.E.	16:13:35	2741525.1760951	2793 Dec 09 17:03:43	003007	LPU	Dec.	-0.7101	1.5717	0.5389	310	157	---	22.1N	114.4E	13 10 2793 C.E.
16295	May 07 2794 C.E.	07:11:37	2741673.7997389	2794 May 07 08:01:46	003009	LNN	Asc.	-1.3690	0.3780	-0.6853	182	---	---	18.1S	108.8W	14 02 2794 C.E.
16296	Jun 05 2794 C.E.	20:53:31	2741703.3705008	2794 Jun 05 21:43:42	003010	LNN	Asc.	1.4333	0.2442	-0.7875	144	---	---	21.2S	46.7E	15 03 2794 C.E.
16297	Oct 30 2794 C.E.	18:33:01	2741850.2729256	2794 Oct 30 19:23:13	003012	LNN	Dec.	1.2815	0.4863	-0.4735	179	---	---	15.2N	177.3E	14 08 2794 C.E.
16298	Nov 29 2794 C.E.	04:17:41	2741879.6789480	2794 Nov 29 05:07:53	003012	LNN	Dec.	-1.3517	0.3676	-0.6121	160	---	---	20.0N	67.5W	13 09 2794 C.E.
16299	Apr 26 2795 C.E.	07:40:59	2742027.8201322	2795 Apr 26 08:31:15	003015	LPU	Asc.	-0.6630	1.6840	0.5997	342	175	---	14.0S	115.8W	14 02 2795 C.E.
16300	Oct 20 2795 C.E.	10:50:39	2742204.9518427	2795 Oct 20 11:40:57	003018	LPU	Dec.	0.6046	1.7321	0.7648	298	167	---	10.9N	166.6W	14 08 2795 C.E.
16301	Apr 14 2796 C.E.	09:15:21	2742381.8856637	2796 Apr 14 10:05:44	003021	LPU	Dec.	-0.0770	2.7446	1.6894	361	229	103	9.6S	138.7W	13 01 2796 C.E.
16302	Oct 08 2796 C.E.	23:56:32	2742559.4975887	2796 Oct 09 00:46:53	003024	LPU	Dec.	-0.1173	2.6489	1.6370	342	221	099	6.3N	2.2W	14 07 2796 C.E.
16303	Apr 03 2797 C.E.	17:30:13	2742736.2293213	2797 Apr 03 18:20:41	003027	LPU	Asc.	0.7918	1.4061	0.4041	290	136	---	4.8S	98.4E	14 01 2797 C.E.
16304	Sep 28 2797 C.E.	06:17:11	2742913.7619345	2797 Sep 28 07:07:41	003030	LPU	Dec.	-0.8938	1.2493	0.1873	302	102	---	1.4N	96.2W	14 07 2797 C.E.
16305	Feb 22 2798 C.E.	21:59:20	2743061.4120557	2798 Feb 22 22:49:53	003033	LNN	Asc.	-1.1946	0.6496	-0.3176	203	---	---	8.8N	32.9E	14 12 2798 C.E.
16306	Mar 24 2798 C.E.	07:45:53	2743090.8253308	2798 Mar 24 08:36:26	003033	LNN	Asc.	1.4287	0.2007	-0.7645	118	---	---	0.0S	114.6W	13 01 2798 C.E.
16307	Aug 18 2798 C.E.	15:40:37	2743238.1532097	2798 Aug 18 16:31:13	003036	LNN	Dec.	1.2393	0.6336	-0.4281	231	---	---	11.7S	125.9E	13 06 2798 C.E.
16308	Feb 12 2799 C.E.	12:59:09	2743416.4010720	2799 Feb 12 13:49:46	003039	LPU	Dec.	-0.5493	1.8484	0.8519	310	181	---	13.2N	168.3E	14 12 2799 C.E.
16309	Aug 07 2799 C.E.	20:46:42	2743592.3657593	2799 Aug 07 21:37:26	003042	LPU	Dec.	0.4257	2.0836	1.0705	335	204	041	15.7S	50.1E	13 05 2799 C.E.
16310	Feb 01 2800 C.E.	22:56:12	2743770.4556958	2800 Feb 01 23:46:55	003045	LPU	Dec.	0.1461	2.6171	1.5634	354	223	097	17.2N	18.9E	15 11 2800 C.E.
16311	Jul 27 2800 C.E.	09:05:34	2743946.7878710	2800 Jul 27 09:56:24	003048	LPU	Dec.	-0.3506	2.1951	1.2340	317	198	068	19.2S	134.3W	13 05 2800 C.E.
16312	Jan 21 2801 C.E.	01:32:38	2744124.2943244	2801 Jan 21 02:23:28	003051	LPU	Asc.	0.8609	1.3286	0.2290	316	114	---	20.6N	20.7W	14 11 2801 C.E.
16313	Jun 17 2801 C.E.	19:00:41	2744272.5621469	2801 Jun 17 19:51:35	003053	LNN	Dec.	1.4266	0.2145	-0.7340	122	---	---	21.9S	75.7E	14 04 2801 C.E.
16314	Jul 17 2801 C.E.	01:49:05	2744301.5775554	2801 Jul 17 02:39:59	003054	LNN	Dec.	-1.0704	0.8639	-0.0763	228	---	---	22.1S	25.2W	14 05 2801 C.E.
16315	Dec 11 2801 C.E.	06:43:09	2744448.7999597	2801 Dec 11 07:34:06	003057	LNN	Asc.	-1.4708	1.1962	-0.8768	132	---	---	21.6N	102.6W	13 10 2801 C.E.
16316	Jan 10 2802 C.E.	00:34:04	2744478.5236559	2802 Jan 10 01:25:01	003057	LNN	Asc.	1.5216	0.1154	-0.9822	105	---	---	23.3N	7.1W	14 11 2802 C.E.
16317	Jun 07 2802 C.E.	09:41:10	2744626.9035863	2802 Jun 07 10:32:09	003060	LPU	Dec.	0.7353	1.5046	0.5130	298	150	---	22.0S	145.0W	14 03 2802 C.E.
16318	Nov 30 2802 C.E.	13:47:59	2744803.7049880	2802 Nov 30 14:39:02	003062	LPU	Dec.	-0.7110	1.5607	0.5464	303	156	---	20.9N	150.1E	12 09 2802 C.E.
16319	May 27 2803 C.E.	17:51:41	2744981.2442286	2803 May 27 18:42:43	003065	LPU	Dec.	-0.0178	2.8498	1.8014	363	231	105	21.3S	97.7E	15 03 2803 C.E.
16320	Nov 20 2803 C.E.	03:25:46	2745157.6428960	2803 Nov 20 04:16:55	003069	LPU	Dec.	0.0668	2.8301	1.8607	322	208	099	19.5N	55.3W	13 09 2803 C.E.
16321	May 15 2804 C.E.	19:23:45	2745335.3081635	2804 May 15 20:14:57	003072	LPU	Dec.	-0.7775	1.4712	0.3922	327	146	---	19.8S	68.2E	14 02 2804 C.E.
16322	Nov 08 2804 C.E.	19:34:33	2745512.3156623	2804 Nov 08 20:25:48	003075	LPU	Dec.	0.6928	1.5697	0.6037	287	150	---	17.5N	81.9E	14 08 2804 C.E.
16323	Apr 05 2805 C.E.	05:54:20	2745659.7460654	2805 Apr 05 06:45:38	003078	LNN	Dec.	1.3556	0.3919	-0.6503	179	---	---	5.1S	87.3E	13 01 2805 C.E.
16324	Apr 04 2805 C.E.	20:16:37	2745689.3487335	2805 Apr 04 21:07:55	003078	LNN	Dec.	-1.4820	0.1691	-0.8909	123	---	---	17.5S	54	

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations		Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar	Date on the Calendar	
										Pen.	Par.	Pen.	Tot.	Lat.	Lon.			
16372	Oct 11 2823 C.E.	05:11:46	2752422.7165009	2823 Oct 11 06:04:59	003194	LNN	Asc.	-1.3420	0.4117	-0.6199	182	---	---	5.9N	80.6W	14	07	2823 C.E.
16373	Nov 09 2823 C.E.	17:35:02	2752452.2326568	2823 Nov 09 18:28:16	003195	LNN	Asc.	1.4105	0.2750	-0.7350	145	---	---	18.2N	91.5E	15	08	2823 C.E.
16374	Apr 05 2824 C.E.	00:13:37	2752599.5094564	2824 Apr 05 01:06:57	003198	LPU	Dec.	0.6130	1.7255	0.7409	303	170	---	5.7S	2.5W	13	01	2824 C.E.
16375	Sep 29 2824 C.E.	09:07:20	2752776.8800896	2824 Sep 29 10:00:39	003200	LPU	Asc.	-0.6461	1.7100	0.6356	340	178	---	2.3N	138.9E	14	07	2824 C.E.
16376	Mar 25 2825 C.E.	15:41:01	2752954.1534877	2825 Mar 25 16:34:24	003203	LTU	Dec.	-0.0955	2.6631	1.7020	318	206	097	2.2S	126.0E	13	01	2825 C.E.
16377	Sep 18 2825 C.E.	09:15:23	2753130.8856885	2825 Sep 18 10:08:52	003207	LTU	Asc.	0.0918	2.7264	1.6535	373	234	104	1.4S	140.2W	13	07	2825 C.E.
16378	Mar 15 2826 C.E.	07:24:25	2753308.8086241	2826 Mar 15 08:17:55	003210	LPU	Dec.	-0.7933	1.3937	0.4111	281	131	---	1.4N	109.5W	14	13	2826 C.E.
16379	Sep 07 2826 C.E.	13:03:46	2753485.0442877	2826 Sep 07 13:57:20	003213	LPU	Asc.	0.8336	1.3420	0.3151	299	127	---	5.0S	163.4E	12	06	2826 C.E.
16380	Feb 03 2827 C.E.	03:18:40	2753633.6379644	2827 Feb 03 04:12:16	003216	LNN	Dec.	1.3371	0.4410	-0.6311	193	---	---	17.7N	46.2W	15	11	2827 C.E.
16381	Mar 04 2827 C.E.	18:47:37	2753663.2830693	2827 Mar 04 19:41:13	003216	LNN	Dec.	-1.5508	0.0315	-1.0061	052	---	---	5.0N	80.0E	15	12	2827 C.E.
16382	Jul 29 2827 C.E.	16:29:53	2753810.1874216	2827 Jul 29 17:23:31	003218	LNN	Asc.	-1.0197	0.9615	0.0121	241	024	---	19.4S	115.0E	13	05	2827 C.E.
16383	Aug 28 2827 C.E.	00:11:41	2753839.5081120	2827 Aug 28 01:05:20	003219	LNN	Asc.	1.5209	0.0526	-0.9182	063	---	---	8.2S	2.9W	13	06	2827 C.E.
16384	Jan 23 2828 C.E.	03:58:47	2753987.6658177	2828 Jan 23 04:52:29	003222	LPU	Dec.	0.6877	1.6493	0.5440	342	168	---	20.1N	57.0W	14	11	2828 C.E.
16385	Jul 18 2828 C.E.	09:41:29	2754164.9038055	2828 Jul 18 10:35:13	003225	LTU	Asc.	-0.2838	2.3088	1.3652	313	197	081	20.9S	143.2W	14	05	2828 C.E.
16386	Jan 11 2829 C.E.	03:33:22	2754341.6481717	2829 Jan 11 04:27:12	003228	LTU	Asc.	0.0011	2.8991	1.8135	370	232	104	21.7N	51.8W	13	11	2829 C.E.
16387	Jul 08 2829 C.E.	01:09:01	2754519.5479285	2829 Jul 08 02:02:51	003231	LPU	Asc.	0.4755	1.9754	0.9956	318	191	---	21.8S	15.6W	15	04	2829 C.E.
16388	Dec 31 2829 C.E.	09:04:21	2754695.8700227	2829 Dec 31 09:58:16	003234	LPU	Dec.	-0.6871	1.6122	0.5825	310	161	---	22.3N	135.9W	13	10	2829 C.E.
16389	May 28 2830 C.E.	10:04:26	2754844.3780773	2830 May 28 11:00:00	003237	LNN	Asc.	-1.5033	0.1311	-0.9312	110	---	---	22.9S	43.5E	15	03	2830 C.E.
16390	Jun 27 2830 C.E.	21:39:18	2755073.9439592	2830 Jun 27 22:33:15	003237	LNN	Asc.	1.2929	0.5034	-0.5316	203	---	---	22.0S	158.7W	14	04	2830 C.E.
16391	Nov 21 2830 C.E.	11:19:43	2755020.9720220	2830 Nov 21 12:13:43	003240	LNN	Dec.	1.3312	0.3972	-0.5665	163	---	---	21.2N	173.8W	13	09	2830 C.E.
16392	Dec 20 2830 C.E.	21:32:18	2755050.3974260	2830 Dec 20 22:26:18	003241	LNN	Dec.	-1.3219	0.4223	-0.5575	170	---	---	22.0N	35.9E	14	10	2830 C.E.
16393	Nov 17 2831 C.E.	21:33:25	2755198.3982075	2831 Nov 17 22:27:08	003243	LPU	Asc.	-0.7845	1.4574	0.3805	326	144	---	20.2S	36.0E	14	03	2831 C.E.
16394	May 11 2831 C.E.	03:12:47	2755473.8439592	2831 May 11 04:06:52	003246	LPU	Dec.	0.6729	1.6116	0.6350	293	157	---	18.0N	52.5W	14	09	2831 C.E.
16395	May 05 2832 C.E.	23:58:59	2755552.4929889	2832 May 06 00:53:13	003250	LTU	Asc.	-0.0243	2.8354	1.7921	358	228	104	16.7S	0.4W	13	02	2832 C.E.
16396	Oct 30 2832 C.E.	15:25:12	2755730.1425046	2832 Oct 30 16:19:21	003252	LTU	Dec.	-0.0343	2.8074	1.7831	347	223	102	14.1N	124.6E	15	08	2832 C.E.
16397	Apr 25 2833 C.E.	09:19:27	2755906.8885017	2833 Apr 25 10:13:43	003256	LPU	Asc.	0.7095	1.5513	0.5609	297	154	---	12.7S	140.1W	13	02	2833 C.E.
16398	Oct 19 2833 C.E.	20:39:35	2756084.3688175	2833 Oct 19 21:33:54	003259	LPU	Dec.	-0.7906	1.4441	0.3713	320	141	---	9.7N	46.5E	14	08	2833 C.E.
16399	Mar 16 2834 C.E.	15:11:27	2756232.1329545	2834 Mar 16 16:05:50	003262	LNN	Asc.	-1.2282	0.5862	-0.3777	194	---	---	0.3N	133.7E	14	13	2834 C.E.
16400	Apr 15 2834 C.E.	00:17:53	2756261.5124240	2834 Apr 15 01:12:15	003262	LNN	Asc.	1.3748	0.3143	-0.6436	146	---	---	8.4S	4.0W	14	01	2834 C.E.
16401	Sep 09 2834 C.E.	05:06:24	2756408.7127752	2834 Sep 09 06:00:49	003265	LNN	Dec.	1.3730	0.3698	-0.6917	181	---	---	3.8S	77.4W	13	06	2834 C.E.
16402	Oct 08 2834 C.E.	20:48:57	2756438.3673277	2834 Oct 08 21:43:22	003265	LNN	Dec.	-1.5144	0.1210	-0.9615	107	---	---	5.0N	45.1E	14	07	2834 C.E.
16403	Mar 06 2835 C.E.	06:04:45	2756586.7532977	2835 Mar 06 06:59:12	003268	LPU	Asc.	-0.5762	1.7997	0.8019	309	178	---	5.1N	88.8W	15	12	2835 C.E.
16404	Aug 29 2835 C.E.	10:54:34	2756762.9545656	2835 Aug 29 11:49:07	003271	LPU	Dec.	0.5704	1.8160	0.8069	322	185	---	8.5S	163.2W	12	06	2835 C.E.
16405	Feb 23 2836 C.E.	15:29:37	2756941.1455631	2836 Feb 23 16:24:08	003274	LTU	Asc.	0.1275	2.6527	1.5960	357	225	099	9.9N	130.6E	14	12	2836 C.E.
16406	Aug 17 2836 C.E.	23:52:06	2757117.4945147	2836 Aug 18 00:46:44	003277	LTU	Dec.	-0.2039	2.4628	1.5045	321	205	091	12.9S	3.4E	13	06	2836 C.E.
16407	Feb 11 2837 C.E.	17:33:18	2757295.2314604	2837 Feb 11 18:27:59	003281	LPU	Asc.	0.8423	1.3630	0.2628	320	122	---	14.4N	100.0E	15	12	2837 C.E.
16408	Aug 07 2837 C.E.	16:46:01	2757472.1986188	2837 Aug 07 17:40:44	003284	LPU	Dec.	-0.9278	1.1262	0.1845	253	075	---	16.8S	110.5E	14	05	2837 C.E.
16409	Jan 01 2838 C.E.	23:01:48	2757619.4595847	2838 Jan 01 23:56:36	003287	LNN	Asc.	-1.4852	0.1686	-0.9020	122	---	---	21.5N	15.1E	13	10	2838 C.E.
16410	Jan 31 2838 C.E.	16:42:22	2757649.9169000	2838 Jan 31 17:37:09	003287	LNN	Asc.	1.5016	1.5004	-0.9437	119	---	---	18.5W	112.6E	14	11	2838 C.E.
16411	Jun 29 2838 C.E.	00:06:03	2757797.5042052	2838 Jun 29 01:00:51	003289	LPU	Dec.	0.8851	1.2318	0.2363	280	107	---	22.2S	0.1W	15	04	2838 C.E.
16412	Dec 22 2838 C.E.	06:42:08	2757973.7792569	2838 Dec 22 07:37:01	003292	LPU	Dec.	-0.7323	1.5205	0.5083	298	150	---	22.6N	101.2W	13	10	2838 C.E.
16413	Jun 18 2839 C.E.	07:32:09	2758151.8139920	2839 Jun 18 08:27:03	003296	LTU	Dec.	0.1327	2.6398	1.5898	363	230	101	23.2S	112.3W	14	04	2839 C.E.
16414	Dec 11 2839 C.E.	20:35:10	2758328.3577555	2839 Dec 11 21:30:11	003299	LPU	Asc.	-0.0279	2.7924	1.8211	321	208	098	22.9N	49.2E	14	10	2839 C.E.
16415	Jun 06 2840 C.E.	08:46:45	2758505.8657960	2840 Jun 06 09:41:47	003302	LPU	Dec.	-0.6305	1.7385	0.6643	344	182	---	23.2S	131.7W	14	03	2840 C.E.
16416	Nov 30 2840 C.E.	12:29:24	2758683.0204128	2840 Nov 30 13:24:28	003305	LPU	Asc.	0.6501	1.6518	0.6783	293	160	---	22.3N	169.4E	14	09	2840 C.E.
16417	Apr 26 2841 C.E.	21:07:08	2758830.3799492	2841 Apr 26 22:02:15	003308	LNN	Dec.	1.4326	0.2445	-0.7852	142	---	---	12.7S	43.3E	13	02	2841 C.E.
16418	May 26 2841 C.E.	10:20:10	2758859.9306719	2841 May 26 11:15:18	003308	LNN	Dec.	-1.3506	0.4047	-0.6445	185	---	---	22.4S	155.8W	13	03	2841 C.E.
16419	Oct 21 2841 C.E.	12:44:56	2759008.0312063	2841 Oct 21 13:40:08	003311	LNN	Asc.	-1.3909	0.3250	-0.7129	163	---	---	9.8N	165.5E	14	08	2841 C.E.
16420	Nov 20 2841 C.E.	01:42:44	2759037.5713444	2841 Nov 20 02:37:56	003312	LNN	Asc.	1.3890	0.3174	-0.6983	156	---	---	20.9N	29.9W	14	09	2841 C.E.
16421	Apr 16 2842 C.E.	08:16:36	2759184.8448594	2842 Apr 16 09:11:50	003314	LPU	Dec.	0.6488	1.6571	0.6778	298	163	---	9.7S	123.9W	13	01	2842 C.E.
16422	Oct 10 2842 C.E.	16:10:59	2759362.1742990	2842 Oct 10 17:06:16	003318	LPU	Asc.	-0.7044	1.6054	0.5265	335	165	---	6.4N	114.4E	14	07	2842 C.E.
16423	Apr 06 2843 C.E.	00:00:07	2759539.5000839	2843 Apr 06 00:55:28	003321	LTU	Dec.	-0.0641	2.7195	1.7611	318	206	098	6.4S	0.5E	14	01	2843 C.E.
16424	Sep 29 2843 C.E.	16:11:22	2759716.1745576	2843 Sep 29 17:06:46	00													

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Lunar Eclipse Number	Calendar Date of Maximum Eclipse	Time (UT)	Astronomical Julian Date (UT)		(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Phase (minutes)		Greatest in Zenith		Hebrew Date on the Creation Calendar					
			Julian Date (UT)	Date (UT)								Pen.	Par.	Lat.	Lon.	Day	Month	Year			
16479	Feb 01 2865	C.E.	19:52:58	2767512.3284493	2865	Feb 01 20:50:45	003464	LTU	Dec.	0.0171	2.8673	1.7868	368	231	104	16.7N	64.7E	14	11	2865	C.E.
16480	Jul 29 2865	C.E.	15:29:35	2767690.1455439	2865	Jul 29 16:27:20	003467	LTU	Asc.	0.3249	2.2549	1.2688	329	207	074	17.9S	129.6E	14	05	2865	C.E.
16481	Jan 22 2866	C.E.	02:07:53	2767866.5888080	2866	Jan 22 03:05:44	003470	LPU	Dec.	-0.6720	1.6374	0.6128	309	164	---	19.0N	29.8W	13	11	2866	C.E.
16482	Jul 19 2866	C.E.	00:07:46	2768044.5053911	2866	Jul 19 01:05:39	003474	LNN	Asc.	1.1399	0.7868	-0.2533	248	---	---	19.6S	0.2W	15	05	2866	C.E.
16483	Dec 13 2866	C.E.	04:33:05	2768191.6896436	2866	Dec 13 05:31:02	003477	LNN	Dec.	-1.3610	0.3442	-0.6230	152	---	---	24.4N	70.0W	13	10	2866	C.E.
16484	Jan 11 2867	C.E.	15:03:24	2768221.1273597	2867	Jan 11 16:01:22	003477	LNN	Dec.	-1.3044	0.4538	-0.5247	175	---	---	20.4N	135.3E	14	11	2867	C.E.
16485	Jun 08 2867	C.E.	10:57:50	2768368.9568341	2867	Jun 08 11:55:51	003480	LPU	Asc.	-0.9289	1.1889	0.1190	302	084	---	23.7S	164.2W	13	03	2867	C.E.
16486	Dec 02 2867	C.E.	20:01:51	2768546.3346125	2867	Dec 02 20:59:53	003483	LPU	Dec.	0.7179	1.5335	0.5480	290	149	---	22.7N	56.6E	14	09	2867	C.E.
16487	May 27 2868	C.E.	14:18:30	2768723.0961795	2868	May 27 15:16:38	003486	LPU	Asc.	-0.1492	2.6002	1.5686	353	225	098	21.6S	145.1E	13	03	2868	C.E.
16488	Nov 21 2868	C.E.	07:20:26	2768900.8058615	2868	Nov 21 08:18:34	003489	LPU	Dec.	0.0239	2.8326	1.7963	350	224	102	20.0N	113.8W	14	09	2868	C.E.
16489	May 17 2869	C.E.	00:42:44	2769077.5296762	2869	May 17 01:40:58	003493	LPU	Asc.	0.6025	1.7421	0.7628	305	172	---	18.9S	11.2W	13	03	2869	C.E.
16490	Nov 10 2869	C.E.	11:33:05	2769254.9813043	2869	Nov 10 12:31:20	003496	LPU	Dec.	-0.7139	1.5901	0.5070	333	162	---	16.7N	177.3W	14	09	2869	C.E.
16491	Apr 07 2870	C.E.	07:56:52	2769402.8311609	2870	Apr 07 08:55:11	003499	LNN	Asc.	-0.2835	0.4827	-0.4772	178	---	---	8.3S	119.1W	14	01	2870	C.E.
16492	May 06 2870	C.E.	16:21:03	2769432.1812837	2870	May 06 17:19:23	003500	LNN	Asc.	1.2875	0.4711	-0.4801	176	---	---	15.5S	114.4E	13	02	2870	C.E.
16493	Sep 30 2870	C.E.	19:02:01	2769579.2937005	2870	Sep 30 20:00:23	003502	LNN	Dec.	1.4936	0.1490	-0.9133	116	---	---	4.6N	71.7E	13	07	2870	C.E.
16494	Oct 30 2870	C.E.	11:13:57	2769608.9680263	2870	Oct 30 12:12:20	003502	LNN	Dec.	-1.4176	0.3009	-0.7863	167	---	---	12.7N	172.3W	13	08	2870	C.E.
16495	Mar 27 2871	C.E.	22:43:59	2769757.4472109	2871	Mar 27 23:42:23	003505	LPU	Asc.	-0.6226	1.7146	0.7165	307	171	---	3.6S	20.0E	15	01	2871	C.E.
16496	Sep 20 2871	C.E.	01:29:24	2769933.5620780	2871	Sep 20 02:27:53	003508	LPU	Dec.	0.6957	1.5850	0.5782	307	161	---	0.3S	24.0W	13	07	2871	C.E.
16497	Mar 16 2872	C.E.	07:37:05	2770111.8174225	2872	Mar 16 08:35:35	003512	LTU	Asc.	0.0904	2.7213	1.6636	359	227	101	1.4N	112.3W	14	13	2872	C.E.
16498	Sep 08 2872	C.E.	14:57:07	2770288.1230004	2872	Sep 08 15:55:43	003515	LTU	Dec.	-0.0707	0.7069	1.7493	322	208	099	5.0S	135.3E	13	06	2872	C.E.
16499	Mar 05 2873	C.E.	19:16:40	2770465.8865685	2873	Mar 05 10:15:19	003519	LPU	Asc.	-0.8106	1.4202	0.3222	325	134	---	6.4N	136.4W	14	12	2873	C.E.
16500	Aug 29 2873	C.E.	07:51:22	2770642.8273392	2873	Aug 29 08:50:03	003521	LPU	Dec.	-0.7923	1.3767	0.4312	273	125	---	9.6S	117.1W	14	06	2873	C.E.
16501	Jan 23 2874	C.E.	15:33:16	2770790.1481037	2874	Jan 23 16:32:01	003524	LNN	Asc.	-1.4918	1.1540	-0.9119	116	---	---	17.8N	129.0E	14	11	2874	C.E.
16502	Feb 22 2874	C.E.	08:43:47	2770819.8637414	2874	Feb 22 09:42:32	003525	LNN	Asc.	1.4738	0.1981	-0.8895	135	---	---	11.3N	127.6E	13	12	2874	C.E.
16503	Jul 20 2874	C.E.	14:15:05	2770968.0938110	2874	Jul 20 15:13:54	003528	LNN	Dec.	1.0433	0.9443	-0.0569	255	---	---	19.3S	148.2W	14	05	2874	C.E.
16504	Jan 12 2875	C.E.	23:54:33	2771144.4962162	2875	Jan 13 00:53:25	003531	LPU	Asc.	-0.7410	1.5026	0.4942	295	148	---	20.7N	3.0E	13	11	2875	C.E.
16505	Jul 09 2875	C.E.	20:49:32	2771322.3677352	2875	Jul 09 21:48:25	003534	LTU	Asc.	0.2989	2.3363	1.2833	360	222	080	21.8S	49.5E	15	04	2875	C.E.
16506	Jan 02 2876	C.E.	14:05:26	2771499.0871075	2876	Jan 02 15:04:25	003538	LTU	Asc.	-0.0454	2.7606	1.7885	320	208	098	22.7N	149.2E	13	10	2876	C.E.
16507	Jun 27 2876	C.E.	21:48:16	2771676.4085235	2876	Jun 27 22:47:18	003541	LPU	Dec.	-0.4656	2.0391	0.9688	358	209	---	23.5S	34.3E	14	04	2876	C.E.
16508	Dec 22 2876	C.E.	05:45:44	2771853.7400932	2876	Dec 22 06:44:47	003544	LPU	Asc.	0.6270	1.6975	0.7175	296	165	---	24.0N	87.2W	14	10	2876	C.E.
16509	May 18 2877	C.E.	11:53:45	2772000.9956640	2877	May 18 12:52:53	003547	LNN	Dec.	-1.5321	0.0556	-0.9619	068	---	---	18.4S	178.5W	13	03	2877	C.E.
16510	Jun 17 2877	C.E.	00:04:24	2772030.5030569	2877	Jun 17 01:03:32	003547	LNN	Dec.	-1.1999	0.6764	-0.3630	232	---	---	24.4S	0.5W	13	04	2877	C.E.
16511	Nov 12 2877	C.E.	04:12:52	2772178.6055993	2877	Nov 12 05:12:02	003550	LNN	Asc.	-1.4687	0.1885	-0.8615	127	---	---	16.5N	66.8W	14	09	2877	C.E.
16512	Dec 11 2877	C.E.	18:16:02	2772208.2611353	2877	Dec 11 19:15:13	003551	LNN	Asc.	1.3625	0.3713	-0.6550	169	---	---	24.3N	83.8E	15	10	2877	C.E.
16513	May 08 2878	C.E.	00:02:36	2772355.5018000	2878	May 08 01:01:50	003554	LPU	Dec.	0.7386	1.4871	0.5180	286	143	---	16.5S	1.0W	13	02	2878	C.E.
16514	Nov 01 2878	C.E.	06:39:57	2772532.7777387	2878	Nov 01 07:39:14	003557	LPU	Asc.	-0.8018	1.4311	0.3433	324	138	---	13.9N	103.9W	14	08	2878	C.E.
16515	Apr 27 2879	C.E.	16:18:23	2772710.1194333	2879	Apr 27 17:17:44	003560	LPU	Dec.	0.0155	2.8060	1.8528	318	206	099	14.1S	114.9E	14	02	2879	C.E.
16516	Oct 21 2879	C.E.	06:28:05	2772886.7695078	2879	Oct 21 07:27:30	003563	LTU	Asc.	-0.0839	2.7431	1.6660	372	233	103	10.8N	100.8W	13	08	2879	C.E.
16517	Apr 16 2880	C.E.	08:03:53	2773064.8360325	2880	Apr 16 09:03:19	003566	LPU	Dec.	-0.7069	1.5516	0.5701	293	152	---	11.2S	121.3W	14	01	2880	C.E.
16518	Oct 09 2880	C.E.	11:03:19	2773240.9606361	2880	Oct 09 12:02:51	003570	LPU	Asc.	0.6484	1.6811	0.6559	318	172	---	7.4N	169.3W	12	07	2880	C.E.
16519	Mar 07 2881	C.E.	03:34:19	2773389.6488331	2881	Mar 07 04:33:52	003573	LNN	Dec.	1.3878	0.3492	-0.7251	175	---	---	6.1N	50.5W	15	12	2881	C.E.
16520	Apr 05 2881	C.E.	18:48:11	2773419.2834594	2881	Apr 05 19:47:44	003573	LNN	Dec.	-1.4871	0.1489	-0.8898	112	---	---	7.8S	77.8E	15	01	2881	C.E.
16521	Aug 30 2881	C.E.	14:58:16	2773566.1237966	2881	Aug 30 15:57:52	003576	LNN	Asc.	-1.2220	0.5897	-0.3586	195	---	---	9.4S	136.1E	13	06	2881	C.E.
16522	Sep 28 2881	C.E.	22:59:43	2773595.4581337	2881	Sep 28 23:59:19	003576	LNN	Asc.	1.3317	0.3994	-0.5706	167	---	---	3.9N	12.1E	13	07	2881	C.E.
16523	Feb 24 2882	C.E.	03:46:36	2773743.6573646	2882	Feb 24 04:46:16	003579	LPU	Dec.	0.7267	1.5761	0.4740	337	159	---	9.9N	53.4W	14	12	2882	C.E.
16524	Aug 20 2882	C.E.	08:04:15	2773920.8628889	2882	Aug 20 09:03:57	003582	LPU	Asc.	-0.5035	1.9088	0.9592	303	179	---	12.4S	119.6W	14	06	2882	C.E.
16525	Feb 13 2883	C.E.	04:01:03	2774097.03673902	2883	Feb 13 05:00:52	003586	LTU	Dec.	0.0275	2.8464	1.7695	366	230	104	13.3N	57.1W	13	12	2883	C.E.
16526	Aug 09 2883	C.E.	22:38:55	2774275.4346941	2883	Aug 09 23:38:42	003589	LTU	Asc.	0.2498	2.3947	1.4045	334	213	087	15.1S	22.0E	15	05	2883	C.E.
16527	Feb 02 2884	C.E.	10:41:35	2774451.9455403	2884	Feb 02 11:41:29	003593	LPU	Dec.	-0.6648	1.6488	0.6276	309	165	---	16.1N	157.7W	13	11	2884	C.E.
16528	Jul 29 2884	C.E.	06:47:41	2774629.7831155	2884	Jul 29 07:47:36	003595	LNN	Asc.	1.0604	0.9343	-0.1089	267	---	---	17.3S	100.2W	14	05	2884	C.E.
16529	Dec 23 2884	C.E.	13:17:29	2774777.0538126	2884	Dec 23 14:17:27	003598	LNN	Dec.	1.3703	0.3279	-0.6406	149	---	---	24.7N	160.3E	13	10	2884	C.E.
16530	Jan 21 2885	C.E.	23:52:05	2774806.4944966	2885	Jan 22 00:52:04	003599	LNN	Dec.	-1.2980	0.4649	-0.5123	177	---	---	18.3N	4.0E	14	11	2885	C.E.
16531	Jun 18 2885	C.E.	17:32:50	2774954.2311306	2885	Jun 18 18:32:52	003602	LNT	Asc.	-1.0071	1.0438	-0.0229	287	---	---	24.2S	97.7E	14	04	2885	C.E.
16532	Dec 13 2885	C.E.	04:34:43	2775131.6907766	2885	Dec 13 05:34:47	003605	LPU	Dec.	0.7328	1.5082	0.5186	290	147	---	23.8N	70.4E	14	10	2885	C.E.
16533	Jun 07 2886	C.E.	21:21:05	2775308.3896423	2886	Jun 07 22:21:15	003608	LTU	Asc.	-0.2187	2.4700	1.4437									

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par.	Phase (minutes) Tot.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar	Date on the Hebrew Calendar	
16586	Apr 19 2907 C.E.	14:48:34	2782928.1170570	2907 Apr 19 15:51:04	003751	LPU	Asc.	-0.6956	1.5807	0.5826	301 159	11.8S 137.5E	14 02 2907 C.E.		
16587	Oct 12 2907 C.E.	16:37:16	2783104.1925412	2907 Oct 12 17:39:51	003755	LPU	Dec.	0.7969	1.3988	0.3930	293 136	8.2N 107.2E	13 08 2907 C.E.		
16588	Apr 07 2908 C.E.	23:10:44	2783282.4657886	2908 Apr 08 00:13:19	003758	LTU	Asc.	0.0281	2.8356	1.7781	362 229	7.2S 12.8E	15 01 2908 C.E.		
16589	Oct 01 2908 C.E.	06:26:50	2783458.7686386	2908 Oct 01 07:29:33	003761	LTU	Dec.	0.0433	2.7580	1.7990	321 208	3.5N 99.2W	13 07 2908 C.E.		
16590	Mar 28 2909 C.E.	00:31:26	2783636.5218302	2909 Mar 28 01:34:10	003764	LPU	Asc.	0.4530	1.5181	0.4245	332 151	2.3S 6.5W	14 01 2909 C.E.		
16591	Sep 20 2909 C.E.	23:13:47	2783813.4679103	2909 Sep 21 00:16:35	003768	LPU	Dec.	-0.6720	1.6005	0.6491	287 153	1.3S 10.3E	14 07 2909 C.E.		
16592	Feb 15 2910 C.E.	08:05:00	2783960.8368068	2910 Feb 15 09:07:52	003771	LNN	Asc.	-1.4999	0.1353	-0.9230	108	11.4N 118.5W	13 12 2910 C.E.		
16593	Mar 17 2910 C.E.	00:27:18	2783990.5189612	2910 Mar 17 01:30:09	003771	LNN	Asc.	1.4298	0.2744	-0.8044	157	2.8N 4.5W	13 13 2910 C.E.		
16594	Aug 12 2910 C.E.	04:16:05	2784138.6778375	2910 Aug 12 05:18:59	003774	LNN	Dec.	1.2033	0.6548	-0.3543	221	13.6S 62.5W	14 05 2910 C.E.		
16595	Sep 10 2910 C.E.	14:16:08	2784168.0945355	2910 Sep 10 15:19:03	003775	LNN	Dec.	-1.4379	0.2124	-0.7733	127	6.0S 145.9E	14 06 2910 C.E.		
16596	Feb 04 2911 C.E.	17:12:42	2784315.2171517	2911 Feb 04 18:15:41	003778	LPU	Asc.	-0.7470	1.4888	0.4861	293 146	15.5N 104.7E	14 11 2911 C.E.		
16597	Aug 01 2911 C.E.	09:55:52	2784492.9137917	2911 Aug 01 10:58:51	003781	LPU	Dec.	0.4705	0.2038	0.9662	352 206	17.4S 146.9W	14 05 2911 C.E.		
16598	Jan 25 2912 C.E.	07:44:08	2784669.8223098	2912 Jan 25 08:47:12	003784	LTU	Asc.	-0.0564	2.7400	1.7687	320 207	19.0N 113.5W	13 11 2912 C.E.		
16599	Jul 20 2912 C.E.	10:39:39	2784846.9442023	2912 Jul 20 11:42:48	003788	LTU	Dec.	-0.2911	2.3580	1.2903	367 226	0.8S 157.7W	13 05 2912 C.E.		
16600	Jan 13 2913 C.E.	23:14:55	2785024.4686866	2913 Jan 14 00:18:05	003791	LPU	Asc.	0.6163	1.7196	0.7345	299 167	21.9N 13.0E	14 11 2913 C.E.		
16601	Jul 09 2913 C.E.	13:39:01	2785201.0687660	2913 Jul 09 14:42:17	003795	LNN	Dec.	-1.0366	0.9718	-0.0593	267	23.1S 157.2E	13 04 2913 C.E.		
16602	Dec 04 2913 C.E.	20:05:29	2785349.3371415	2913 Dec 04 21:08:47	003798	LNN	Asc.	-1.5232	0.0940	-0.9671	091	20.8N 56.2E	15 09 2913 C.E.		
16603	Jan 03 2914 C.E.	11:04:33	2785378.9614921	2914 Jan 03 12:07:51	003798	LNN	Asc.	1.3509	0.3970	-0.6380	176	24.0N 165.5W	14 10 2914 C.E.		
16604	May 30 2914 C.E.	15:24:39	2785626.1421127	2914 May 30 16:28:00	003801	LPU	Dec.	0.8500	1.2783	0.3182	270 111	20.9S 128.9E	13 03 2914 C.E.		
16605	Nov 23 2914 C.E.	21:40:47	2785703.4032359	2914 Nov 23 22:44:11	003804	LPU	Asc.	-0.8713	1.3076	0.2119	315 110	19.6N 31.1E	14 09 2914 C.E.		
16606	May 20 2915 C.E.	08:06:19	2785880.8377211	2915 May 20 09:09:47	003808	LTU	Dec.	0.1201	2.6118	1.6630	317 204	0.9S 122.1W	14 03 2915 C.E.		
16607	Nov 12 2915 C.E.	21:22:57	2786057.3909321	2915 Nov 12 22:26:29	003811	LTU	Asc.	-0.1647	2.5961	1.5165	369 230	0.9S 122.1W	13 09 2915 C.E.		
16608	May 08 2916 C.E.	23:47:46	2786235.4915005	2916 May 09 00:51:20	003815	LPU	Dec.	-0.6178	1.7150	0.7338	304 170	18.0S 2.2E	15 02 2916 C.E.		
16609	Nov 01 2916 C.E.	02:28:58	2786411.6034516	2916 Nov 01 03:32:38	003818	LPU	Asc.	0.5585	1.8458	0.8211	324 186	14.9N 41.6W	13 08 2916 C.E.		
16610	Mar 29 2917 C.E.	19:07:55	2786560.9971670	2917 Mar 29 20:11:35	003820	LNN	Dec.	-1.4476	0.2389	-0.8346	147	2.5S 74.7E	15 01 2917 C.E.		
16611	Apr 28 2917 C.E.	10:01:47	2786589.9179069	2917 Apr 28 11:05:29	003821	LNN	Dec.	-1.4113	0.2881	-0.7508	155	15.5S 151.5W	14 02 2917 C.E.		
16612	Sep 22 2917 C.E.	06:22:14	2786736.7654350	2917 Sep 22 07:25:57	003824	LNN	Asc.	-1.3376	0.3787	-0.5717	159	1.3S 96.5W	13 07 2917 C.E.		
16613	Oct 21 2917 C.E.	14:50:58	2786766.1187238	2917 Oct 21 15:54:41	003824	LNN	Asc.	1.2348	0.5777	-0.3933	196	12.0N 132.9E	12 08 2917 C.E.		
16614	Mar 18 2918 C.E.	19:12:43	2786914.3005031	2918 Mar 18 20:16:30	003827	LPU	Dec.	0.7735	1.4874	0.3908	330 146	1.4N 74.0E	14 13 2918 C.E.		
16615	Sep 11 2918 C.E.	23:12:13	2787091.4668152	2918 Sep 12 00:16:04	003831	LPU	Asc.	-0.6373	1.6666	0.7102	293 161	4.7S 11.7E	14 06 2918 C.E.		
16616	Mar 07 2919 C.E.	20:07:02	2787268.3382189	2919 Mar 07 21:10:59	003834	LTU	Dec.	0.0585	2.7849	1.7170	364 229	10.3S 60.7E	14 12 2919 C.E.		
16617	Sep 01 2919 C.E.	13:01:25	2787446.0264990	2919 Sep 01 14:05:20	003838	LTU	Asc.	0.1051	2.6651	1.6654	340 221	10.0S 165.0E	14 06 2919 C.E.		
16618	Feb 25 2920 C.E.	03:41:12	2787622.6536079	2920 Feb 25 04:45:14	003841	LPU	Dec.	-0.6426	1.6855	0.6726	309 169	8.8N 52.7W	13 12 2920 C.E.		
16619	Aug 20 2920 C.E.	20:09:06	2787800.3396575	2920 Aug 20 21:13:10	003844	LPU	Dec.	0.9037	1.2256	0.1747	299 099	11.1S 58.6E	14 06 2920 C.E.		
16620	Jan 15 2921 C.E.	06:55:03	2787947.7882292	2921 Jan 15 07:59:10	003847	LNN	Dec.	1.3826	0.3061	-0.6639	144	22.4N 101.5W	14 11 2921 C.E.		
16621	Feb 13 2921 C.E.	17:25:41	2787977.2261734	2921 Feb 13 18:29:49	003848	LNN	Dec.	-1.2820	0.4923	-0.4811	181	12.0N 101.1E	14 12 2921 C.E.		
16622	Jul 11 2921 C.E.	06:34:18	2788126.4378143	2921 Jul 11 07:38:28	003851	LNN	Asc.	-1.1700	0.7422	-0.3192	248	22.9S 96.4W	13 04 2921 C.E.		
16623	Jan 04 2922 C.E.	21:51:05	2788302.4104794	2922 Jan 04 22:55:19	003854	LPU	Dec.	0.7530	1.4747	0.4781	289 144	23.3N 33.2E	15 10 2922 C.E.		
16624	Jun 30 2922 C.E.	11:17:50	2788478.9707170	2922 Jun 30 12:22:09	003857	LTU	Asc.	-0.3674	2.1922	1.1757	340 210	0.6S 23.3E	13 04 2922 C.E.		
16625	Dec 25 2922 C.E.	07:55:01	2788656.8298770	2922 Dec 25 08:59:20	003861	LTU	Dec.	0.0714	2.7531	1.7016	355 225	101 23.4N	11.9W	14 10 2922 C.E.	
16626	Jun 19 2923 C.E.	23:10:25	2788834.4656619	2923 Jun 20 00:14:50	003864	LPU	Asc.	0.4055	2.0965	1.1310	315 194	0.5S 22.9S	13.2E	13 04 2923 C.E.	
16627	Dec 14 2923 C.E.	10:44:40	2789101.9476875	2923 Dec 14 11:49:08	003868	LPU	Dec.	-0.6428	1.7268	0.6312	344 178	22.5N 163.0W	14 10 2923 C.E.		
16628	May 10 2924 C.E.	08:07:21	2789158.8384383	2924 May 10 09:11:52	003871	LNN	Asc.	-1.4130	0.2426	-0.7123	130	19.2S 122.7W	14 02 2924 C.E.		
16629	Jun 08 2924 C.E.	15:37:27	2789188.1510016	2924 Jun 08 16:41:58	003871	LNN	Asc.	1.1662	0.7816	-0.1622	219	21.7S 125.9E	13 03 2924 C.E.		
16630	Dec 02 2924 C.E.	09:58:38	2789364.9157207	2924 Dec 02 11:03:14	003875	LNN	Dec.	-1.3216	0.4797	-0.6126	207	20.7N 152.5W	13 09 2924 C.E.		
16631	Apr 29 2925 C.E.	22:37:04	2789513.4424110	2925 Apr 29 23:41:40	003877	LPU	Asc.	-0.7424	1.4950	0.4967	297 149	15.5S 20.1E	15 02 2925 C.E.		
16632	Oct 23 2925 C.E.	00:24:54	2789689.5127868	2925 Oct 23 01:29:36	003881	LPU	Dec.	0.8370	1.3251	0.3194	287 124	12.2N 10.3W	13 08 2925 C.E.		
16633	Apr 19 2926 C.E.	06:41:41	2789867.7789475	2926 Apr 19 07:46:24	003884	LTU	Asc.	-0.0148	2.8597	1.8026	363 230	10.4 11.2S	100.6W	14 02 2926 C.E.	
16634	Oct 12 2926 C.E.	14:23:22	2790044.0959609	2926 Oct 12 15:28:11	003888	LTU	Dec.	0.0907	2.6714	1.7114	320 207	0.9S 7.7N	140.8E	13 08 2926 C.E.	
16635	Apr 08 2927 C.E.	07:55:46	2790221.8303942	2927 Apr 08 09:00:38	003892	LPU	Asc.	0.7185	1.5855	0.4946	336 162	6.5S 118.3W	14 01 2927 C.E.		
16636	Oct 02 2927 C.E.	07:03:04	2790398.7937940	2927 Oct 02 08:07:58	003895	LPU	Dec.	-0.6191	1.6993	0.7443	293 163	3.0N 108.0W	14 07 2927 C.E.		
16637	Feb 26 2928 C.E.	16:16:25	2790546.1780025	2928 Feb 26 17:21:21	003897	LNN	Asc.	-1.5081	0.1179	-0.9358	101	7.4N 118.4E	14 12 2928 C.E.		
16638	Mar 27 2928 C.E.	08:09:16	2790755.8397700	2928 Mar 27 09:14:14	003898	LNN	Asc.	1.3991	0.3280	-0.7456	170	1.6S 120.7W	13 01 2928 C.E.		
16639	Aug 22 2928 C.E.	11:17:03	2790723.9701696	2928 Aug 22 12:22:03	003901	LNN	Dec.	1.2808	0.5149	-0.4990	199	10.1S 168.5W	14 06 2928 C.E.		
16640	Sep 20 2928 C.E.	21:43:13	2790753.4050722	2928 Sep 20 22:48:15	003902	LNN	Dec.	-1.3830	0.3161	-0.6752	154	1.8S 33.1E	15 07 2928 C.E.		
16641	Aug 15 2929 C.E.	01:49:48	2790900.5762454	2929 Aug 15 02:54:53	003905	LPU	Asc.	-0.7523	1.4772	0.4781	291 144	12.0N 24.5W	13 12 2929 C.E.		
16642	Aug 11 2929 C.E.	16:27:17	2791078.1861929	2929 Aug 11 17:32:25	003908	LPU	Dec.	0.5565	1.8675	0.8070	346 194	14.3S 114.8E	14 05 2929 C.E.		
16643	Feb 04 2930 C.E.	16:33:31	2791255.1899402	2930 Feb 04 17:38:43	003912	LTU	Asc.	-0.0618	2.7296	1.7593	319 207	0.9N 16.0E	14.1E	14 11 2930 C.E.	
16644	Jul 31 2930 C.E.														

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Lunar Eclipse Number	Calendar Date and Time of Maximum Eclipse	Astronomical Julian Date (UT)	Astronomical Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations (Pen. Par. Tot.)	Phase (minutes) (Tot.)	Greatest in Zenith Lat. Lon.	Hebrew Date and Time of Creation Calendar	Date on the Calendar
16693	Jan 25 2950 C.E.	03:58:33	2798549.6656651	2950 Jan 25 05:06:06	004053	LNN	Asc.	1.3471	0.4072	-0.6342	180 --- ---	20.2N 56.9W	15 11 2950 C.E.		
16694	Jan 21 2950 C.E.	06:27:25	2798696.7090433	2950 Jan 21 07:35:02	004056	LPU	Dec.	0.9785	1.0388	0.0860	249 043 ---	22.3S 95.8W	13 04 2950 C.E.		
16695	Dec 15 2950 C.E.	13:10:10	2798874.6487279	2950 Dec 15 14:17:50	004060	LPU	Dec.	-0.9160	1.2287	0.1269	309 087 ---	22.3N 161.0E	13 10 2950 C.E.		
16696	Jun 10 2951 C.E.	23:29:12	2799051.4786075	2951 Jun 11 00:36:55	004064	LTU	Dec.	0.2449	2.3815	1.4353	314 200 086	22.7S 8.1E	14 03 2951 C.E.		
16697	Dec 04 2951 C.E.	12:53:39	2799228.0372613	2951 Dec 04 14:01:28	004067	LPU	Dec.	-0.2180	2.4989	1.4180	366 226 091	21.9N 163.8E	13 09 2951 C.E.		
16698	May 30 2952 C.E.	14:58:11	2799406.1237422	2952 May 30 16:06:00	004070	LPU	Dec.	-0.5036	1.9251	0.9429	315 187 ---	22.4S 135.2E	14 03 2952 C.E.		
16699	Nov 22 2952 C.E.	18:32:11	2799582.2723454	2952 Nov 22 19:40:06	004074	LPU	Asc.	0.4967	1.9589	0.9347	327 193 ---	20.7N 78.1E	13 09 2952 C.E.		
16700	Apr 20 2953 C.E.	10:04:10	2799730.9195617	2953 Apr 20 11:12:08	004077	LNN	Dec.	1.5341	0.0793	-0.9923	086 --- ---	10.5S 150.6W	14 02 2953 C.E.		
16701	May 20 2953 C.E.	00:36:51	2799760.5255860	2953 May 20 01:44:49	004078	LNN	Dec.	-1.3075	0.4790	-0.5605	198 --- ---	21.2S 10.1W	15 03 2953 C.E.		
16702	Oct 13 2953 C.E.	22:11:53	2799907.4249212	2953 Oct 13 23:19:54	004081	LNN	Asc.	-1.4331	0.2054	-0.7486	119 --- ---	6.9N 24.3E	14 08 2953 C.E.		
16703	Nov 12 2953 C.E.	07:14:18	2799936.8015990	2953 Nov 12 08:22:20	004081	LNN	Asc.	1.1628	0.7107	-0.2621	214 --- ---	18.8N 113.1W	13 09 2953 C.E.		
16704	Apr 09 2954 C.E.	10:08:30	2800084.9225713	2954 Apr 09 11:16:34	004084	LPU	Dec.	0.8445	1.3536	0.2642	319 122 ---	7.0S 151.4W	14 01 2954 C.E.		
16705	Oct 03 2954 C.E.	14:39:48	2800262.1109696	2954 Oct 03 15:47:55	004088	LPU	Dec.	-0.7528	1.4589	0.4941	283 139 ---	3.6N 137.8E	14 07 2954 C.E.		
16706	Mar 29 2955 C.E.	11:49:55	2800338.9929943	2955 Mar 29 12:58:08	004091	LTU	Dec.	0.1108	2.6835	1.6265	360 227 100	3.3S 176.4W	13 01 2955 C.E.		
16707	Sep 23 2955 C.E.	03:36:31	2800616.4633601	2955 Sep 23 04:44:44	004094	LTU	Dec.	-0.0255	2.8167	1.8058	345 223 102	0.2N 55.8W	14 07 2955 C.E.		
16708	Mar 17 2956 C.E.	20:24:24	2800793.3502829	2956 Mar 17 21:32:44	004098	LPU	Dec.	-0.6047	1.7499	0.7470	309 175 ---	0.3N 55.4E	13 01 2956 C.E.		
16709	Sep 11 2956 C.E.	09:39:57	2800970.9027452	2956 Sep 11 10:48:18	004102	LPU	Asc.	0.7561	1.5009	0.4410	329 152 ---	3.4S 145.9W	14 07 2956 C.E.		
16710	Feb 06 2957 C.E.	00:33:21	2801118.5231555	2957 Feb 06 01:41:46	004105	LNN	Dec.	1.3950	0.2832	-0.6868	139 --- ---	16.9N 4.7W	14 12 2957 C.E.		
16711	Mar 07 2957 C.E.	10:45:15	2801147.9480921	2957 Mar 07 11:53:40	004105	LNN	Dec.	-1.2548	0.5395	-0.4285	188 --- ---	3.9N 159.5W	13 13 2957 C.E.		
16712	Aug 01 2957 C.E.	19:35:03	2801295.3160070	2957 Aug 01 20:43:32	004108	LNN	Asc.	-1.3338	0.4397	-0.6179	196 --- ---	18.6S 68.8E	14 05 2957 C.E.		
16713	Aug 31 2957 C.E.	10:10:11	2801324.9333218	2957 Aug 31 11:32:28	004108	LNN	Asc.	1.5084	0.1270	-0.9458	110 --- ---	6.9S 156.2W	13 06 2957 C.E.		
16714	Jan 26 2958 C.E.	15:13:01	2801473.1340339	2958 Jan 26 16:21:31	004111	LPU	Dec.	0.7673	1.4511	0.4493	290 141 ---	19.3N 134.7E	15 11 2958 C.E.		
16715	Jul 12 2958 C.E.	01:10:25	2801649.5489048	2958 Jul 12 02:19:02	004115	LPU	Dec.	-0.5227	1.9034	0.8947	327 192 ---	20.5S 15.3W	13 05 2958 C.E.		
16716	Jan 16 2959 C.E.	00:33:20	2801827.5231470	2959 Jan 16 01:41:56	004119	LTU	Dec.	0.0873	2.7277	1.6688	357 226 101	21.0N 6.5W	15 11 2959 C.E.		
16717	Jul 11 2959 C.E.	13:53:53	2802004.0790884	2959 Jul 11 15:02:37	004122	LPU	Dec.	0.2580	2.3638	1.4050	320 085 210	0.6S 153.4E	13 04 2959 C.E.		
16718	Jan 05 2960 C.E.	02:37:44	2802181.6095419	2960 Jan 05 03:46:29	004126	LPU	Dec.	-0.6173	1.7762	0.6753	348 183 ---	22.0N 38.8W	14 10 2960 C.E.		
16719	May 31 2960 C.E.	23:36:19	2802359.4835572	2960 Jun 01 00:45:08	004129	LNN	Asc.	-1.5285	0.0292	-0.9240	046 --- ---	23.6S 5.8E	14 03 2960 C.E.		
16720	Jun 30 2960 C.E.	06:43:06	2802358.7799347	2960 Jun 30 07:51:56	004129	LNN	Asc.	0.9810	1.0284	0.0869	245 036 ---	22.0S 99.4W	14 04 2960 C.E.		
16721	Dec 24 2960 C.E.	01:46:24	2802535.5738842	2960 Dec 24 02:55:16	004133	LNN	Dec.	-1.2852	0.5470	-0.5464	219 --- ---	22.1N 27.3W	13 10 2960 C.E.		
16722	May 21 2961 C.E.	13:47:39	2802684.0747564	2961 May 21 14:56:34	004136	LPU	Dec.	0.8552	1.2885	0.2893	284 118 ---	21.2S 152.5E	14 03 2961 C.E.		
16723	Nov 13 2961 C.E.	16:26:04	2802860.1847697	2961 Nov 13 17:35:04	004139	LPU	Dec.	-0.8983	1.2124	0.2071	276 101 ---	19.0N 109.3E	13 09 2961 C.E.		
16724	May 10 2962 C.E.	21:17:03	2803038.3868349	2962 May 10 22:26:03	004143	LTU	Asc.	-0.1204	2.6656	1.6091	364 229 101	18.0S 40.1E	15 02 2962 C.E.		
16725	Nov 03 2962 C.E.	06:38:17	2803214.7165875	2962 Nov 03 07:47:25	004147	LTU	Dec.	0.1683	2.5305	1.5675	319 205 093	15.2N 103.8W	13 08 2962 C.E.		
16726	Apr 29 2963 C.E.	22:18:05	2803392.4292273	2963 Apr 29 23:27:16	004150	LPU	Dec.	0.6217	1.7601	0.6753	346 184 ---	14.1S 25.1E	14 02 2963 C.E.		
16727	Oct 23 2963 C.E.	23:01:18	2803569.4592353	2963 Oct 24 00:10:30	004153	LPU	Dec.	-0.5305	1.8659	0.9029	302 177 ---	11.1N 10.9E	14 08 2963 C.E.		
16728	Mar 19 2964 C.E.	08:25:56	2803716.8513384	2964 Mar 19 09:35:12	004156	LNN	Asc.	-1.5367	0.0601	-0.9829	072 --- ---	1.1S 125.2W	13 01 2964 C.E.		
16729	Apr 17 2964 C.E.	23:12:17	2803746.4668663	2964 Apr 18 00:21:35	004157	LNN	Asc.	1.3188	0.4698	-0.5926	200 --- ---	9.8S 12.1E	13 02 2964 C.E.		
16730	Sep 13 2964 C.E.	01:27:28	2803894.5607425	2964 Sep 13 02:36:48	004160	LNN	Dec.	1.4253	0.2551	-0.7694	145 --- ---	2.1S 23.0W	14 07 2964 C.E.		
16731	Oct 12 2964 C.E.	12:54:04	2803924.7305518	2964 Oct 12 14:03:25	004161	LNN	Dec.	-1.2880	0.4962	-0.5068	191 --- ---	6.6N 163.5E	14 08 2964 C.E.		
16732	Mar 08 2965 C.E.	18:52:25	2804071.2863995	2965 Mar 08 20:01:50	004164	LPU	Asc.	-0.7739	1.4333	0.4427	286 138 ---	3.8N 79.0E	14 13 2965 C.E.		
16733	Sep 02 2965 C.E.	05:39:55	2804248.7360519	2965 Sep 02 06:49:21	004167	LPU	Dec.	0.7178	1.5750	0.5077	331 163 ---	6.9S 84.9W	14 06 2965 C.E.		
16734	Feb 26 2966 C.E.	10:03:03	2804425.9187828	2966 Feb 26 11:12:34	004171	LTU	Dec.	-0.0801	2.6946	1.7273	319 206 097	8.5N 147.9W	14 12 2966 C.E.		
16735	Aug 22 2966 C.E.	06:05:18	2804602.7536777	2966 Aug 22 07:14:52	004174	LTU	Dec.	-0.0344	2.8285	1.7619	372 235 106	11.4S 90.2W	13 06 2966 C.E.		
16736	Feb 16 2967 C.E.	01:25:58	2804780.5596989	2967 Feb 16 02:35:35	004178	LPU	Asc.	0.6029	1.7464	0.7572	302 171 ---	13.0N 18.3W	15 12 2967 C.E.		
16737	Aug 11 2967 C.E.	10:08:03	2804956.9222561	2967 Aug 11 11:17:46	004182	LPU	Dec.	-0.7900	1.4197	0.3976	304 141 ---	15.6S 150.1W	13 05 2967 C.E.		
16738	Jan 06 2968 C.E.	20:29:57	2805105.3541348	2968 Jan 06 21:39:42	004185	LNN	Asc.	-1.5699	0.0147	-1.0592	037 --- ---	20.9N 53.4E	15 10 2968 C.E.		
16739	Feb 05 2968 C.E.	12:24:51	2805135.0166820	2968 Feb 05 13:33:47	004185	LNN	Asc.	1.3452	0.4120	-0.6319	181 --- ---	17.2N 177.3E	14 11 2968 C.E.		
16740	Jul 01 2968 C.E.	13:54:36	2805282.0795880	2968 Jul 01 15:04:25	004188	LNN	Dec.	1.0465	0.9126	-0.0372	236 --- ---	21.8S 153.0E	13 04 2968 C.E.		
16741	Jul 30 2968 C.E.	21:26:33	2805311.3934420	2968 Jul 30 22:36:21	004188	LNN	Dec.	-1.4879	0.1115	-0.8561	091 --- ---	19.3S 40.8E	13 05 2968 C.E.		
16742	Dec 25 2968 C.E.	07:03:25	2805459.3773709	2968 Dec 25 08:13:16	004191	LPU	Asc.	-0.9310	1.2022	0.0984	307 077 ---	22.4N 43.9E	14 10 2968 C.E.		
16743	Jun 21 2969 C.E.	01:02:11	2805586.7931837	2969 Jun 21 02:11:44	004195	LPU	Dec.	0.3141	2.2544	1.3087	312 196 076	23.0S 104.5W	14 04 2969 C.E.		
16744	Dec 14 2969 C.E.	20:50:31	2805813.3684217	2969 Dec 14 22:00:32	004199	LTU	Asc.	-0.2359	2.4661	1.3852	365 225 088	22.9N 45.7E	13 10 2969 C.E.		
16745	Jun 10 2970 C.E.	22:23:09	2805991.4327457	2970 Jun 10 23:33:10	004202	LPU	Dec.	-0.4391	2.0438	1.0606	320 095 037	23.4S 24.6E	15 03 2970 C.E.		
16746	Dec 04 2970 C.E.	02:45:14	2806167.6147511	2970 Dec 04 03:55:22	004206	LPU	Asc.	0.4745	1.9993	0.9758	328 195 ---	22.6N 44.2W	13 09 2970 C.E.		
16747	May 31 2971 C.E.	07:41:58	2806345.8208061	2971 May 31 08:52:07	004209	LNN	Dec.	-1.2466	0.5910	-0.4491	218 --- ---	23.0S 115.9W	14 03 2971 C.E.		
16748	Oct 25 2971 C.E.	06:17:51	2806492.7623933	2971 Oct 25 07:28:03	004212	LNN	Asc.	-1.4718	1.1353	-0.8209	097 --- ---	10.7N 97.8W	13 08 2971 C.E.		
16749	Nov 23 2971 C.E.	15:37:30	2806522.1510390	2971 Nov 23 16:47:43	004213	LNN	Asc.	1.1363	0.7598	-0.2138	220 --- ---	21.4N 121.6E	13 09 2971 C.E.		
16750	Apr 19 2972 C.E.	17:23:55	2806670.4294441	2972 Apr 19 18:34:12	004216	LPU	Dec.	0.8900	1.2681	0.1828	311 103 ---	10.9S 99.2E	14 02 2972 C.E.		
16751	Oct 13 2972 C.E.	22:32:07	2806847.4389664	2972 Oct 13 23:42:26	004220	LPU	Dec.	-0.8027	1.3698	0.4002	278 127 ---	7.7N 18.9E	14 08 2972 C.E.		
16752	Apr 08 2973 C.E.	19:31:04	2807024.3132408	2973 Apr 08 20:41:29	004223	LTU	Dec.	0.1464	2.6152	1.5641	357 226 098	7.5S 67.7E	14 01 2973 C.E.		
16753	Oct 03 2973 C.E.	11:02:07	2807201.9598060	2973 Oct 03 12:12:32	004227	LTU	Asc.	-0.0830	2.7144	1.6974	346 117 ---	4.3N 168.1W	14 07 2973 C.E.		
16754	Mar 29 2974 C.E.	04:35:54	2807378.6915927	2974 Mar 29 05:46:25	004230	LPU	Dec.	-0.5764	1.7990	0.8016	310 179 ---	4.0S 68.2W	13 01 2974 C.E.		
16755	Sep 22 2974 C.E.	16:33:18	2807556.1897935	2974 Sep 22 17:43:51	004234	LPU	Dec.	0.6892	1.6260	0.5613	332 168 ---	0.7N 109.7E	14 07 2974 C.E.		
16756	Feb 17 2975 C.E.	09:19:08	2807703.8882900	2975 Feb 17 10											

7000 Year Canon of Lunar Eclipses

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Lunar Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TD) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Node	Gamma	Pen. Mag.	Umb. Mag.	Eclipse Durations Pen. Par. Tot.	Phase (minutes)	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar Day Month Year
16800	Feb 27 2993 C.E.	18:01:33	2814289.2510711	2993 Feb 27 19:14:23	004370	LNN	Dec.	1.4166	0.2428	-0.7256	129	--- --- 9.2N 93.1E	14 12 2993 C.E.
16801	Mar 29 2993 C.E.	03:42:31	2814318.6545252	2993 Mar 29 04:55:22	004371	LNN	Dec.	-1.2095	0.6194	-0.3424	199	--- --- 4.7S 55.2W	14 01 2993 C.E.
16802	Aug 23 2993 C.E.	08:46:24	2814465.8655607	2993 Aug 23 09:59:18	004374	LNN	Asc.	-1.4892	0.1534	-0.9019	118	--- --- 12.1S 129.9W	13 06 2993 C.E.
16803	Sep 21 2993 C.E.	23:47:02	2814495.4909956	2993 Sep 22 00:59:56	004374	LNN	Asc.	1.3621	0.3972	-0.6789	189	--- --- 1.1N 1.1E	13 07 2993 C.E.
16804	Feb 17 2994 C.E.	08:27:43	2814643.8525756	2994 Feb 17 09:40:39	004377	LPU	Dec.	0.7858	1.4187	0.4137	289 137	--- --- 12.5N 123.5W	14 12 2994 C.E.
16805	Aug 12 2994 C.E.	15:11:24	2814820.1329132	2994 Aug 12 16:24:26	004381	LPU	Dec.	-0.6742	1.6225	0.6196	310 166	--- --- 15.0S 134.2E	12 05 2994 C.E.
16806	Feb 06 2995 C.E.	17:09:01	2814998.2145901	2995 Feb 06 18:22:03	004385	LTU	Dec.	0.1026	2.7019	1.6382	359 226	100 --- 15.5N 105.8E	15 11 2995 C.E.
16807	Aug 02 2995 C.E.	04:36:31	2815174.6920286	2995 Aug 02 05:49:42	004389	LTU	Asc.	0.1076	2.6377	1.6832	322 208	098 --- 17.3S 67.1W	13 05 2995 C.E.
16808	Jan 26 2996 C.E.	18:38:50	2815352.2769662	2996 Jan 26 19:52:01	004392	LPU	Dec.	-0.5990	1.8112	0.7078	350 186	--- --- 18.1N 82.7E	14 11 2996 C.E.
16809	Jul 21 2996 C.E.	21:38:51	2815529.4019836	2996 Jul 21 22:52:07	004396	LPU	Asc.	0.8375	1.2918	0.3502	267 111	--- --- 19.1S 37.2E	14 05 2996 C.E.
16810	Jan 14 2997 C.E.	17:51:53	2815706.2443650	2997 Jan 14 19:05:13	004399	LNN	Dec.	-1.2608	0.5909	-0.5007	225	--- --- 19.9N 93.5E	14 11 2997 C.E.
16811	Jun 12 2997 C.E.	04:26:23	2815854.6849836	2997 Jun 12 05:39:45	004403	LPU	Asc.	-0.9910	1.0404	0.0389	264 045	--- --- 24.1S 66.0W	15 03 2997 C.E.
16812	Dec 05 2997 C.E.	09:01:20	2816030.8759296	2997 Dec 05 10:14:47	004406	LPU	Dec.	0.9348	1.1450	0.1404	269 083	--- --- 23.2N 138.0W	13 09 2997 C.E.
16813	Jun 01 2998 C.E.	11:15:17	2816208.9689517	2998 Jun 01 12:28:45	004410	LTU	Asc.	-0.2537	2.4209	1.3646	362 225	087 --- 22.3S 168.9W	14 03 2998 C.E.
16814	Nov 24 2998 C.E.	23:24:17	2816385.4751988	2998 Nov 25 00:37:51	004413	LTU	Dec.	0.2210	2.4355	1.4693	317 202	087 --- 20.9N 5.4E	13 09 2998 C.E.
16815	May 21 2999 C.E.	12:07:14	2816563.0002042	2999 May 21 13:20:51	004417	LPU	Asc.	0.4970	1.9856	0.9072	357 204	--- --- 19.8S 177.8E	13 03 2999 C.E.
16816	Nov 14 2999 C.E.	15:27:23	2816740.1440190	2999 Nov 14 16:41:04	004421	LPU	Dec.	-0.4669	1.9870	0.1155	308 185	019 --- 17.8N 124.2E	15 09 2999 C.E.
16817	May 10 3000 C.E.	13:46:10	2816917.0737294	3000 May 10 14:59:55	004425	LNN	Asc.	1.2115	0.6607	-0.3902	231	--- --- 16.6S 153.0E	13 02 3000 C.E.
16818	Oct 05 3000 C.E.	15:56:29	2817065.1642206	3000 Oct 05 17:10:15	004428	LNN	Dec.	1.5498	0.0327	-1.0037	053	--- --- 6.4N 117.7E	15 07 3000 C.E.
16819	Nov 04 3000 C.E.	04:31:10	2817094.6883098	3000 Nov 04 05:44:58	004428	LNN	Dec.	-1.2169	0.6328	-0.3823	215	--- --- 14.1N 71.7W	14 08 3000 C.E.
16820	Mar 31 3001 C.E.	11:33:43	2817241.9817422	3001 Mar 31 12:47:34	004431	LPU	Asc.	-0.8347	1.3536	0.3725	279 125	--- --- 4.9S 172.7E	13 01 3001 C.E.
16821	Sep 24 3001 C.E.	19:09:22	2817419.2981704	3001 Sep 24 20:23:16	004435	LPU	Dec.	0.8623	1.3137	0.2387	313 116	--- --- 1.5N 70.7E	14 07 3001 C.E.
16822	Mar 21 3002 C.E.	03:13:11	2817586.6341559	3002 Mar 21 04:27:09	004438	LTU	Asc.	-0.1144	2.6294	1.6664	318 205	096 --- 0.1S 46.7W	14 01 3002 C.E.
16823	Sep 13 3002 C.E.	19:25:33	2817773.3094123	3002 Sep 13 20:39:36	004442	LTU	Dec.	0.1192	2.6733	1.6059	370 233	102 --- 3.4S 67.9E	14 07 3002 C.E.
16824	Mar 10 3003 C.E.	18:33:39	2817951.7936991	3003 Mar 10 19:47:44	004446	LPU	Dec.	0.5805	1.7879	0.7979	306 175	--- --- 4.8N 84.1E	15 13 3003 C.E.
16825	Sep 03 3003 C.E.	00:07:07	2818127.5049400	3003 Sep 03 01:21:19	004450	LPU	Dec.	-0.6363	1.6998	0.6815	319 175	--- --- 8.2S 1.3W	13 06 3003 C.E.
16826	Feb 28 3004 C.E.	05:02:22	2818305.7099716	3004 Feb 28 06:16:34	004453	LNN	Asc.	1.3334	0.4352	-0.6118	187	--- --- 9.6N 72.4W	15 12 3004 C.E.
16827	Jul 24 3004 C.E.	04:44:34	2818452.6076159	3004 Jul 24 05:58:50	004456	LNN	Dec.	1.1869	0.6529	-0.2931	204	--- --- 18.4S 69.1W	13 05 3004 C.E.
16828	Aug 22 3004 C.E.	12:07:19	2818482.0050777	3004 Aug 22 13:21:36	004457	LNN	Dec.	-1.3396	0.3821	-0.5822	164	--- --- 12.7S 179.7E	13 06 3004 C.E.
16829	Jan 17 3005 C.E.	12:58:24	2818630.4056068	3005 Jan 17 14:12:45	004460	LPU	Asc.	-0.9533	1.1622	0.0565	303 058	--- --- 19.8N 167.3E	14 11 3005 C.E.
16830	Jul 13 3005 C.E.	21:58:38	2818807.4157132	3005 Jul 13 23:13:01	004464	LPU	Dec.	0.4591	1.9886	1.0423	305 183	030 --- 21.0S 32.4E	14 04 3005 C.E.
16831	Jun 06 3006 C.E.	13:01:28	2818984.0426860	3006 Jun 06 14:15:57	004467	LTU	Asc.	-0.2585	2.4236	1.3446	362 222	085 --- 22.2N 165.5E	13 10 3006 C.E.
16832	Jul 03 3006 C.E.	12:53:46	2818962.0373365	3006 Jul 03 14:08:15	004471	LTU	Dec.	-0.2966	2.3071	1.3202	330 209	079 --- 23.1S 168.2E	14 04 3006 C.E.
16833	Dec 26 3006 C.E.	19:32:53	2819338.3145078	3006 Dec 26 20:47:29	004474	LTU	Asc.	0.4462	2.0500	1.0288	327 197	026 --- 23.7N 66.3E	13 10 3006 C.E.
16834	Jun 22 3007 C.E.	21:28:09	2819516.3945513	3007 Jun 22 22:42:47	004478	LNN	Dec.	-1.1075	0.8473	-0.1950	256	--- --- 24.3S 38.9E	15 04 3007 C.E.
16835	Nov 16 3007 C.E.	22:51:57	2819663.4527414	3007 Nov 17 00:06:38	004481	LNN	Asc.	-1.5327	0.0260	-0.9350	043	--- --- 17.1N 13.6E	14 09 3007 C.E.
16836	Dec 16 3007 C.E.	08:44:20	2819692.8641251	3007 Dec 16 09:59:03	004482	LNN	Asc.	1.0991	0.8287	-0.1461	228	--- --- 24.3N 132.9W	13 10 3007 C.E.
16837	Nov 12 3008 C.E.	07:29:52	2819840.8124055	3008 Nov 12 08:44:37	004485	LNT	Dec.	1.0012	1.0598	-0.0171	289	--- --- 17.3S 112.7W	13 02 3008 C.E.
16838	May 05 3008 C.E.	14:38:03	2820018.1097574	3008 May 05 15:52:52	004489	LPU	Asc.	-0.8835	1.2266	0.2472	269 102	--- --- 14.9N 136.6E	14 08 3008 C.E.
16839	May 01 3009 C.E.	10:33:21	2820194.9398242	3009 May 01 11:48:16	004493	LTU	Dec.	0.2364	2.4438	1.4051	351 221	089 --- 14.9S 158.8W	13 02 3009 C.E.
16840	Oct 26 3009 C.E.	02:09:59	2820372.5902704	3009 Oct 26 03:24:53	004496	LPU	Asc.	-0.1814	2.5400	1.5107	348 221	094 --- 12.2N 36.4W	14 08 3009 C.E.
16841	Apr 20 3010 C.E.	20:41:43	2820549.3622978	3010 Apr 20 21:56:44	004500	LPU	Dec.	-0.5041	1.9262	0.9398	313 186	--- --- 12.1S 49.2E	13 02 3010 C.E.
16842	Oct 15 3010 C.E.	06:37:04	2820726.7757431	3010 Oct 15 07:52:07	004504	LPU	Asc.	0.5706	1.8487	0.7740	347 191	--- --- 8.9N 102.9W	14 08 3010 C.E.
16843	Mar 12 3011 C.E.	02:37:31	2820874.6093835	3011 Mar 12 03:52:38	004507	LNN	Dec.	1.4339	0.2105	-0.7567	121	--- --- 4.9N 36.5W	14 13 3011 C.E.
16844	Apr 10 3011 C.E.	12:00:15	2820904.0001727	3011 Apr 10 13:15:22	004507	LNN	Dec.	-1.1784	0.6751	-0.2836	206	--- --- 8.9S 179.7E	13 01 3011 C.E.
16845	Sep 04 3011 C.E.	15:30:22	2821051.1460872	3011 Sep 04 16:45:33	004511	LNN	Asc.	-1.5605	0.0224	-1.0323	046	--- --- 8.3S 128.3E	13 06 3011 C.E.
16846	Oct 04 3011 C.E.	06:40:25	2821080.7780670	3011 Oct 04 07:55:36	004511	LNN	Asc.	1.2975	0.5166	-0.5614	214	--- --- 5.3N 103.2W	13 07 3011 C.E.
16847	Feb 29 3012 C.E.	16:59:00	2821229.2076346	3012 Feb 29 18:14:13	004514	LPU	Dec.	0.7993	1.3943	0.3884	288 133	--- --- 8.5N 108.4E	15 12 3012 C.E.
16848	Aug 23 3012 C.E.	22:16:58	2821405.4284544	3012 Aug 23 23:32:18	004518	LPU	Asc.	-0.7468	1.4882	0.4874	300 150	--- --- 11.5S 27.1E	13 06 3012 C.E.
16849	Feb 18 3013 C.E.	01:23:01	2821583.5576533	3013 Feb 18 02:38:20	004521	LTU	Dec.	0.1125	2.6845	1.6192	360 227	100 --- 11.9N 17.7E	15 12 3013 C.E.
16850	Aug 13 3013 C.E.	12:00:30	2821760.0003460	3013 Aug 13 13:15:55	004525	LPU	Asc.	0.0336	2.7729	1.8196	322 208	100 --- 14.3S 178.4W	13 05 3013 C.E.
16851	Feb 07 3014 C.E.	02:38:10	2821937.6098433	3014 Feb 07 03:53:38	004528	LPU	Dec.	-0.5889	1.8296	0.7262	352 188	--- --- 15.0N 36.8W	14 11 3014 C.E.
16852	Aug 03 3014 C.E.	05:06:01	2822114.7125069	3014 Aug 03 06:21:33	004532	LPU	Asc.	0.7652	1.4250	0.4825	276 132	--- --- 16.6S 74.7W	14 05 3014 C.E.
16853	Jan 27 3015 C.E.	01:58:45	2822291.5824662	3015 Jan 27 03:14:21	004535	LNN	Dec.	-1.2508	0.6083	-0.4815	228	--- --- 17.6N 27.5W	13 11 3015 C.E.
16854	Jun 24 3015 C.E.	11:36:15	2822439.9835122	3015 Jun 24 12:51:53	004538	LNN	Asc.	-1.0652	0.9052	-0.0980	251	--- --- 24.3S 172.7W	14 04 3015 C.E.
16855	Jul 23 3015 C.E.	20:54:52	2822469.3714339	3015 Jul 23 22:10:31	004539	LNN	Asc.	1.5377	0.0236	-0.9507	043	--- --- 18.3S 48.0E	15 05 3015 C.E.
16856	Dec 17 3015 C.E.	17:29:07	2822616.2285586	3015 Dec 17 18:44:50	004542	LPU	Dec.	0.9458	1.1245	0.1206	266 077	--- --- 24.1N 96.3E	13 10 3015 C.E.
16857	Jun 12 3016 C.E.	18:03:08	2822794.2521798	3016 Jun 12 19:18:53	004546	LTU	Asc.	-0.3286	2.2836	1.2270	359 220	073 --- 23.4S 89.8E	15 03 3016 C.E.
16858	Dec 06 3016 C.E.	07:57:30	2822929.8315959	3016 Dec 06 09:13:20	004550	LTU	Dec.	0.2390	2.4031	1.4355	316 201	085 --- 22.6N 122.0W	13 09 3016 C.E.
16859	Jun 01 3017 C.E.	18:50:20	2823148.2849486	3017 Jun 01 20:06:14	004554	LTU	Asc.	0.4252	2.1159	1.0406	362 213	033 --- 21.7S 77.4E	14 03 3017 C.E.
16860	Nov 25 3017 C.E.	23:50:28	2823325.4933822	3017 Nov 26 01:06:24	004557	LTU	Dec.	-0.4440	2.0311	1.0554	310 189	035 --- 20.3N 1.1W	14 09 3017 C.E.
16861	May 21 3018 C.E.	20:54:08	2823502.3709236	3018 May 21 22:10:09	004561	LNN	Asc.	1.1492	0.7722	-0.2731	246	--- --- 19.2S 46.1E	13 03 3018 C.E.
16862	Nov 15 3018 C.E.	12:28:55	2823680.0200811	3018 Nov 15 13:44:59	004564	LNN	Dec.	-1.1897	0.6858	-0.3352	224	--- --- 17.2N 168.9E	14 09 3018 C.E.
16863	Apr 11 3019 C.E.	19:44:36	2823807.3226435	3019 Apr 11 21:00:05	004568	LPU	Asc.	-0.8439	1.2975	0.3212	274 115	--- --- 9.1S 63.9E	14 01 3019 C.E.
16864	Oct 06 3019 C.E.	02:04:30	2824004.58611										