

7000 Year Canon of Total Lunar Eclipse Tetrads

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This 7000 Year Canon of Lunar Eclipse Tetrads covers a time span which starts on May 6, 3980 B.C.E. on the proleptic (retro-calculated) Julian Calendar, and ends on March 6, 3021 C.E. on the Gregorian Calendar covering a period of 7000 Hebrew 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 86,577 lunar Hebrew Months covering this particular span of 7000 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.

A "tetrad" is a series of four of the same type of eclipse. In particular, this canon documents only the total lunar eclipse tetrads. This particular type of tetrad is relatively rare as there are only 202 total lunar eclipse tetrads within the 7000 Year Canon of Lunar Eclipses.

Column	Heading:	Definition / Description										
1	Lunar Eclipse Tetrad	This column is the numerical catalog number for each total lunar eclipse tetrad within the 7000 Year Canon of Lunar Eclipses. There are a total of 202 total lunar eclipse tetrads in this 7000 year canon.										
2	Tetrad Sequence Number	The number of the eclipse within the tetrad (range is 1 to 4)										
3	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.										
4	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.										
5	Astronomical Julian Date (UT)	Instant of Maximum Eclipse in Universal Time (UT) using the Astronomical Julian Date format.										
6	(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.										
7	Delta T (seconds)	Difference in time at the moment of eclipse defined as: $\Delta T = (TD - UT)$ in units of seconds										
8	Lunar Eclipse Type	Type of Lunar Eclipse where: <table border="0" style="margin-left: 40px;"> <tr> <td>LNN = Lunar Penumbral</td> <td>Moon only intersects with the penumbra (Penumbral)</td> </tr> <tr> <td>LPN = Lunar Partial Penumbral</td> <td>Moon intersects umbra (Partial) but is not fully within penumbra (Penumbral)</td> </tr> <tr> <td>LNT = Lunar Penumbral total</td> <td>Moon is total in the penumbra (Penumbral) but never intersects with the umbra</td> </tr> <tr> <td>LPU = Lunar Partial Umbral</td> <td>Moon is partially within the umbra (Partial) and total within the penumbra</td> </tr> <tr> <td>LTU = Lunar Total Umbral</td> <td>Moon is totally within the umbra (Total) By definition, this canon only contains Lunar Total Umbral eclipses.</td> </tr> </table>	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) By definition, this canon only contains Lunar Total Umbral eclipses.
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9	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.										
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	Greatest in Zenith Lat.	Latitude on the Earth where the Moon appears in the zenith at instant of Maximum Eclipse										
12	Greatest in Zenith Lon.	Longitude on the Earth where the Moon appears in the zenith at instant of Maximum Eclipse										
13	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 Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TDT) Date and Time of Maximum Eclipse		Delta T (Seconds)	Lunar Eclipse Type	Gamma	Umb. Mag.	Greatest in Zenith		Hebrew Date on the Creation Calendar			
			Day	Month	Year	Time (UT)	Day	Month					Year	Time (UT)	Day	Month	Year	Day
1	1	00016	Jan 03	3973	B. C. E.	19:00:15	0270287.2918423	-3973	Jan 05 01:01:13	108057	-0.3069	1.3119	22.8N	76.6E	14	09	3973	B. C. E.
	2	00017	Jun 28	3973	B. C. E.	17:28:55	0270464.2284174	-3973	Jun 29 23:29:52	108057	0.4049	1.0763	21.2S	94.8E	14	03	3973	B. C. E.
	3	00018	Dec 23	3973	B. C. E.	11:08:19	0270641.9641116	-3973	Dec 24 17:09:15	108057	0.3817	1.1722	21.8N	166.5W	14	09	3973	B. C. E.
	4	00019	Jun 17	3972	B. C. E.	19:12:41	0270818.3004794	-3972	Jun 19 01:13:02	108019	-0.3515	1.1905	19.5S	68.4E	14	02	3972	B. C. E.
2	1	00033	Feb 14	3966	B. C. E.	07:51:04	0272885.8271241	-3966	Feb 15 13:47:36	107791	0.4455	1.0112	22.1N	112.6W	13	11	3966	B. C. E.
	2	00034	Aug 10	3966	B. C. E.	19:54:18	0273063.3293790	-3966	Aug 12 01:50:48	107791	-0.4196	1.0856	23.5S	61.8E	15	04	3966	B. C. E.
	3	00035	Feb 03	3965	B. C. E.	14:28:53	0273240.1033949	-3965	Feb 04 20:24:48	107753	-0.3169	1.2720	23.0N	147.1E	12	10	3965	B. C. E.
	4	00036	Jul 30	3965	B. C. E.	03:50:13	0273417.6598711	-3965	Jul 31 09:46:04	107753	0.3174	1.2471	23.7S	58.3W	15	04	3965	B. C. E.
3	1	00083	Dec 14	3945	B. C. E.	06:33:17	0280859.7731125	-3945	Dec 15 12:16:28	106993	0.2906	1.3066	19.6N	98.3W	14	09	3945	B. C. E.
	2	00084	Jun 08	3944	B. C. E.	10:29:18	0281035.9370179	-3944	Jun 09 16:11:55	106955	-0.3109	1.3018	17.0S	160.5W	13	02	3944	B. C. E.
	3	00085	Dec 03	3944	B. C. E.	10:49:45	0281213.9512128	-3944	Dec 04 16:32:19	106955	-0.4216	1.0395	15.8N	162.6W	14	08	3944	B. C. E.
	4	00086	May 29	3943	B. C. E.	02:41:10	0281390.6119198	-3943	May 30 08:23:07	106917	0.4309	1.0963	13.0S	42.8W	14	02	3943	B. C. E.
4	1	00125	Dec 25	3927	B. C. E.	14:51:03	0287445.1187836	-3927	Dec 26 20:22:53	106312	0.3068	1.2767	22.1N	138.0E	15	09	3927	B. C. E.
	2	00126	Jun 19	3926	B. C. E.	18:05:24	0287621.2537503	-3926	Jun 20 23:36:40	106274	-0.3726	1.1889	20.0S	85.3E	14	03	3926	B. C. E.
	3	00127	Dec 14	3926	B. C. E.	18:51:06	0287799.2854870	-3926	Dec 16 00:22:19	106274	-0.4107	1.0598	18.9N	77.4E	14	09	3926	B. C. E.
	4	00128	Jun 08	3925	B. C. E.	10:22:31	0287975.9323055	-3925	Jun 09 15:53:07	106236	0.3650	1.2165	16.4S	158.7W	13	02	3925	B. C. E.
5	1	00167	Jan 04	3908	B. C. E.	22:59:02	0294030.4576605	-3908	Jan 06 04:18:55	105595	0.3311	1.2320	23.7N	17.0E	15	09	3908	B. C. E.
	2	00168	Jun 30	3908	B. C. E.	01:49:11	0294206.5758183	-3908	Jul 01 07:09:07	105595	-0.4289	1.0648	22.3S	30.3W	13	03	3908	B. C. E.
	3	00169	Dec 25	3908	B. C. E.	02:42:57	0294384.6131589	-3908	Dec 26 08:02:51	105595	-0.3920	1.0949	21.4N	39.9W	14	09	3908	B. C. E.
	4	00170	Jun 19	3907	B. C. E.	18:09:22	0294561.2565023	-3907	Jun 20 23:28:39	105557	0.3032	1.3288	19.4S	84.5E	14	03	3907	B. C. E.
6	1	00306	Nov 25	3851	B. C. E.	05:38:08	0315173.7348190	-3851	Nov 26 10:22:28	103459	0.4387	1.0655	14.0N	85.0W	13	08	3851	B. C. E.
	2	00307	May 21	3850	B. C. E.	08:34:18	0315350.8571554	-3850	May 22 13:18:01	103422	-0.3295	1.2192	11.2S	130.7W	14	02	3850	B. C. E.
	3	00308	Nov 14	3850	B. C. E.	21:19:29	0315528.3885265	-3850	Nov 16 02:03:10	103422	-0.2256	1.4546	9.4N	40.0E	14	08	3850	B. C. E.
	4	00309	May 09	3849	B. C. E.	10:31:44	0315704.9387019	-3849	May 10 15:14:51	103385	0.4391	1.0326	6.5S	158.8W	13	01	3849	B. C. E.
7	1	00349	Dec 05	3833	B. C. E.	14:33:33	0321759.1066262	-3833	Dec 06 19:06:43	102790	0.4410	1.0628	17.6N	141.2E	13	08	3833	B. C. E.
	2	00350	May 31	3832	B. C. E.	15:02:28	0321936.1267083	-3832	Jun 01 19:35:01	102753	-0.4133	1.0648	14.9S	131.5E	13	02	3832	B. C. E.
	3	00351	Nov 25	3832	B. C. E.	06:18:48	0322113.7630572	-3832	Nov 26 10:51:20	102753	-0.2273	1.4514	13.5S	95.1W	14	08	3832	B. C. E.
	4	00352	May 20	3831	B. C. E.	17:14:37	0322290.2184882	-3831	May 21 21:46:34	102715	0.3560	1.1860	10.5N	99.4E	14	02	3831	B. C. E.
8	1	01179	Mar 26	3503	B. C. E.	13:54:07	0442037.0792446	-3503	Mar 27 15:09:14	090906	0.3658	1.2056	9.4N	155.4E	13	12	3503	B. C. E.
	2	01180	Sep 19	3503	B. C. E.	23:45:08	0442214.4896713	-3503	Sep 21 01:00:13	090906	-0.2585	1.3348	12.1S	5.5E	14	06	3503	B. C. E.
	3	01181	Mar 16	3502	B. C. E.	06:32:24	0442391.7724943	-3502	Mar 17 07:46:54	090871	-0.3760	1.1963	12.4N	93.7W	14	12	3502	B. C. E.
	4	01182	Sep 08	3502	B. C. E.	22:57:10	0442568.4563637	-3502	Sep 10 00:11:42	090871	0.4301	1.0233	15.4S	17.3E	14	05	3502	B. C. E.
9	1	01223	Apr 05	3485	B. C. E.	21:21:39	0448622.3900328	-3485	Apr 06 22:26:19	090279	0.4381	1.0750	5.3N	42.5E	13	13	3485	B. C. E.
	2	01224	Sep 30	3485	B. C. E.	07:48:09	0448799.8251013	-3485	Oct 01 08:52:48	090280	-0.2691	1.3138	7.9S	115.6W	14	06	3485	B. C. E.
	3	01225	Mar 26	3484	B. C. E.	14:12:49	0448977.0922347	-3484	Mar 27 15:16:54	090245	-0.3072	1.3233	8.6N	150.4E	13	12	3484	B. C. E.
	4	01226	Sep 19	3484	B. C. E.	06:56:25	0449153.7891810	-3484	Sep 20 08:00:32	090245	0.4141	1.0522	11.7S	102.6W	13	06	3484	B. C. E.
10	1	01293	Mar 17	3456	B. C. E.	13:24:55	0459195.0589741	-3456	Mar 18 14:12:49	089275	-0.3412	1.2391	11.7N	163.1E	14	12	3456	B. C. E.
	2	01294	Sep 09	3456	B. C. E.	16:37:39	0459371.1928713	-3456	Sep 10 17:25:36	089275	0.3691	1.1708	14.9S	112.2E	13	05	3456	B. C. E.
	3	01295	Mar 06	3455	B. C. E.	22:19:47	0459549.4304044	-3455	Mar 07 23:07:06	089240	0.4360	1.0368	16.0N	30.2E	15	11	3455	B. C. E.
	4	01296	Aug 30	3455	B. C. E.	05:49:36	0459725.7427794	-3455	Aug 31 06:36:57	089240	-0.3360	1.2553	18.8S	85.8W	13	05	3455	B. C. E.
11	1	01335	Mar 28	3438	B. C. E.	20:46:06	0465780.3653416	-3438	Mar 29 21:23:37	088653	-0.4120	1.1085	7.7N	51.9E	15	12	3438	B. C. E.
	2	01336	Sep 21	3438	B. C. E.	01:10:18	0465956.5488228	-3438	Sep 22 01:47:53	088653	0.3762	1.1580	11.1S	16.1W	13	06	3438	B. C. E.
	3	01337	Mar 17	3437	B. C. E.	05:17:53	0466134.7207546	-3437	Mar 18 05:54:50	088619	0.3666	1.1639	12.3N	74.9W	14	12	3437	B. C. E.
	4	01338	Sep 09	3437	B. C. E.	14:31:14	0466311.1050199	-3437	Sep 10 15:08:14	088619	-0.3214	1.2815	15.5S	144.0E	13	05	3437	B. C. E.
12	1	01359	Feb 25	3427	B. C. E.	02:36:03	0469766.6083674	-3427	Feb 26 03:07:18	088275	0.3368	1.2018	18.6N	33.6W	14	11	3427	B. C. E.
	2	01360	Aug 21	3427	B. C. E.	05:50:58	0469943.7437251	-3427	Aug 22 06:22:12	088275	-0.3279	1.2692	20.9S	86.5W	14	05	3427	B. C. E.
	3	01361	Feb 14	3426	B. C. E.	04:35:51	0470120.6915644	-3426	Feb 15 05:06:34	088241	-0.4117	1.0791	20.6N	64.0W	13	11	3426	B. C. E.
	4	01362	Aug 10	3426	B. C. E.	18:30:32	0470298.2712004	-3426	Aug 11 19:01:11	088241	0.3975	1.1190	22.2S	82.7E	15	04	3426	B. C. E.
13	1	01384	Jan 24	3416	B. C. E.	12:10:42	0473753.0074339	-3416	Jan 25 12:35:41	087897	-0.2605	1.3882	23.5N	178.9W	13	10	3416	B. C. E.
	2	01385	Jul 20	3416	B. C. E.	20:02:09	0473930.3348295	-3416	Jul 21 20:27:05	087897	0.3270	1.2494	23.8S	58.1E	15	04	3416	B. C. E.
	3	01386	Jan 14	3415	B. C. E.	03:39:29	0474107.6524196	-3415	Jan 15 04:03:52	087863	0.4442	1.0631	24.5N	52.2W	14	10	3415	B. C. E.
	4	01387	Jul 09	3415	B. C. E.	20:06:06	0474284.3375677	-3415	Jul 10 20:30:30	087863	-0.4084	1.0716	23.9S	56.1E	14	03	3415	B. C. E.
14	1	01400	Mar 07	3409	B. C. E.	09:21:17	0476351.8897805	-3409	Mar 08 09:42:15	087658	0.4091	1.0709	15.5N	135.2W	13	11	3409	B. C. E.
	2	01401	Aug 31	3409	B. C. E.	14:23:14	0476529.0994684	-3409	Sep 01 14:44:11	087658	-0.3493	1.2275	18.2S	145.9E	14	05	3409	B. C. E.
	3	01402	Feb 24	3408	B. C. E.	11:49:39	0476705.9928083	-3408	Feb 25 12:10:03	087623	-0.3505	1.1945	18.1N	172.3W	13	11	3408	B. C. E.
	4	01403	Aug 21	3408	B. C. E.	02:33:5												

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TDT) Date and Time of Maximum Eclipse		Lunar Eclipse Type	Delta T (Seconds)	Gamma	Umb. Mag.	Greatest in Zenith Lon.		Hebrew Date on the Creation Calendar Day Month Year	
			Date	Time (UT)	Date (UT)	Date	Time	Lat.					Lon.	Day	Month	Year
22	1	01768	Dec 07	3247 B.C.E.	21:54:23	0535797.4127625	-3247	Dec 08	20:44:23	082202	LTU	-0.3908	1.1381	18.3N	31.0E	15 09 3247 B.C.E.
	2	01769	Jun 02	3246 B.C.E.	02:55:10	0535973.6216482	-3246	Jun 03	01:44:40	082168	LTU	0.3493	1.2168	15.9S	46.6W	13 02 3246 B.C.E.
	3	01770	Nov 27	3246 B.C.E.	06:29:12	0536151.7702721	-3246	Nov 28	05:18:37	082168	LTU	0.3165	1.2450	15.7N	98.3W	14 08 3246 B.C.E.
	4	01771	May 21	3245 B.C.E.	16:33:04	0536328.1896273	-3245	May 22	15:22:00	082135	LTU	-0.4216	1.1080	13.2S	109.2E	14 02 3245 B.C.E.
23	1	01810	Dec 18	3229 B.C.E.	06:33:08	0542382.7730140	-3229	Dec 19	05:13:14	081607	LTU	-0.4015	1.1182	20.9N	98.0W	14 09 3229 B.C.E.
	2	01811	Jun 12	3228 B.C.E.	10:08:09	0542558.9223284	-3228	Jun 13	08:47:45	081574	LTU	0.4216	1.0849	18.8S	155.0W	13 02 3228 B.C.E.
	3	01812	Dec 07	3228 B.C.E.	14:51:22	0542737.1190077	-3228	Dec 08	13:30:54	081574	LTU	0.3116	1.2533	19.0N	136.5E	14 08 3228 B.C.E.
	4	01813	Jun 02	3227 B.C.E.	00:02:15	0542913.5015654	-3227	Jun 02	22:41:17	081541	LTU	-0.3460	1.2471	16.6S	3.6W	14 02 3227 B.C.E.
24	1	02638	Apr 08	2899 B.C.E.	05:56:44	0662660.7477268	-2899	Apr 09	01:41:34	071091	LTU	-0.3442	1.2492	2.2N	87.2W	14 13 2899 B.C.E.
	2	02639	Oct 01	2899 B.C.E.	14:47:03	0662837.1160025	-2899	Oct 02	10:31:57	071092	LTU	0.2853	1.3035	5.6S	138.8E	12 06 2899 B.C.E.
	3	02640	Mar 28	2898 B.C.E.	19:24:29	0663015.3086697	-2898	Mar 29	15:08:48	071061	LTU	0.4265	1.0739	7.0N	72.2E	15 12 2898 B.C.E.
	4	02641	Sep 20	2898 B.C.E.	23:38:08	0663191.4848203	-2898	Sep 21	19:22:31	071061	LTU	-0.4218	1.1827	10.5S	6.7E	13 06 2898 B.C.E.
25	1	02681	Apr 18	2881 B.C.E.	13:25:24	0669246.0593010	-2881	Apr 19	09:01:01	070539	LTU	-0.4171	1.1149	2.1S	159.4E	14 01 2881 B.C.E.
	2	02682	Oct 11	2881 B.C.E.	23:11:39	0669422.4664243	-2881	Oct 12	18:47:20	070539	LTU	0.2872	1.3006	1.1S	12.1E	13 07 2881 B.C.E.
	3	02683	Apr 08	2880 B.C.E.	02:33:12	0669600.6063856	-2880	Apr 08	22:08:19	070509	LTU	0.3544	1.2051	2.7N	36.1E	15 13 2880 B.C.E.
	4	02684	Oct 01	2880 B.C.E.	08:19:56	0669776.8471817	-2880	Oct 02	03:55:07	070509	LTU	-0.4145	1.0964	6.2S	124.2W	13 06 2880 B.C.E.
26	1	02748	Mar 29	2852 B.C.E.	11:14:59	0679817.9687405	-2852	Mar 30	06:35:53	069654	LTU	0.3726	1.1410	6.3N	165.5W	14 12 2852 B.C.E.
	2	02749	Sep 22	2852 B.C.E.	07:11:54	0679994.7999333	-2852	Sep 23	02:32:48	069654	LTU	-0.2724	1.3740	9.4S	186.8W	14 06 2852 B.C.E.
	3	02750	Mar 18	2851 B.C.E.	11:44:12	0680171.9890260	-2851	Mar 19	07:04:36	069623	LTU	-0.3843	1.1207	9.8N	172.1W	13 12 2851 B.C.E.
	4	02751	Sep 11	2851 B.C.E.	22:09:05	0680349.4229756	-2851	Sep 12	17:29:27	069624	LTU	0.4171	1.0955	12.8S	28.8E	15 06 2851 B.C.E.
27	1	02772	Feb 26	2841 B.C.E.	14:28:00	0683804.1027796	-2841	Feb 27	09:43:22	069320	LTU	-0.2907	1.3211	16.5N	148.1E	13 11 2841 B.C.E.
	2	02773	Aug 22	2841 B.C.E.	04:35:09	0683981.6910787	-2841	Aug 22	23:50:27	069320	LTU	0.2850	1.3052	20.0S	67.8W	14 05 2841 B.C.E.
	3	02774	Feb 15	2840 B.C.E.	03:46:34	0684158.6573328	-2840	Feb 15	23:01:24	069290	LTU	0.4498	1.0509	20.1N	51.4W	13 11 2840 B.C.E.
	4	02775	Aug 11	2840 B.C.E.	05:55:12	0684335.7466621	-2840	Aug 12	01:10:02	069290	LTU	-0.4389	1.0087	22.1S	88.2W	14 05 2840 B.C.E.
28	1	02813	Mar 08	2823 B.C.E.	21:56:32	0690389.4142537	-2823	Mar 09	17:02:49	068775	LTU	-0.3483	1.2184	13.1N	35.5E	13 12 2823 B.C.E.
	2	02814	Sep 02	2823 B.C.E.	12:25:29	0690567.0176927	-2823	Sep 03	07:31:42	068775	LTU	0.3128	1.2511	15.9S	174.9E	14 05 2823 B.C.E.
	3	02815	Feb 26	2822 B.C.E.	11:43:50	0690704.9887704	-2822	Feb 27	06:49:36	068745	LTU	0.3997	1.1451	17.1N	170.7W	13 11 2822 B.C.E.
	4	02816	Aug 22	2822 B.C.E.	13:19:33	0690921.0552384	-2822	Aug 23	08:25:17	068745	LTU	-0.4000	1.0781	19.7S	161.2E	13 05 2822 B.C.E.
29	1	02854	Mar 19	2805 B.C.E.	05:20:08	0696974.7223148	-2805	Mar 20	00:17:22	068232	LTU	-0.4108	1.1068	9.2N	76.1W	13 12 2805 B.C.E.
	2	02855	Sep 12	2805 B.C.E.	20:22:54	0697152.3492310	-2805	Sep 13	15:20:04	068232	LTU	0.3337	1.2099	12.2S	55.4E	15 06 2805 B.C.E.
	3	02856	Mar 08	2804 B.C.E.	19:33:37	0697329.3150134	-2804	Mar 09	14:30:20	068202	LTU	0.3431	1.2512	13.6N	71.4E	14 12 2804 B.C.E.
	4	02857	Sep 01	2804 B.C.E.	20:54:13	0697506.3709862	-2804	Sep 02	15:50:55	068202	LTU	-0.3699	1.1314	16.6S	47.8E	14 05 2804 B.C.E.
30	1	02921	Feb 27	2776 B.C.E.	20:18:11	0707547.3459634	-2776	Feb 28	15:00:53	067363	LTU	0.2956	1.3349	16.3N	60.7E	15 11 2776 B.C.E.
	2	02922	Aug 23	2776 B.C.E.	01:20:15	0707723.5557261	-2776	Aug 23	20:03:00	067363	LTU	-0.4334	1.0373	19.4S	18.8W	13 05 2776 B.C.E.
	3	02923	Feb 17	2775 B.C.E.	09:29:13	0707901.8952923	-2775	Feb 18	04:11:25	067333	LTU	-0.4562	1.0150	18.6N	137.3W	14 11 2775 B.C.E.
	4	02924	Aug 12	2775 B.C.E.	10:42:40	0708077.9462972	-2775	Aug 13	05:24:55	067333	LTU	0.3084	1.2962	21.1S	160.2W	13 05 2775 B.C.E.
31	1	02987	Feb 07	2747 B.C.E.	18:28:30	0718119.2697930	-2747	Feb 08	12:56:48	066499	LTU	-0.2999	1.2682	20.9N	87.7E	15 11 2747 B.C.E.
	2	02988	Aug 03	2747 B.C.E.	09:58:34	0718295.9156744	-2747	Aug 04	04:26:53	066499	LTU	0.3661	1.2090	22.5S	149.6W	14 04 2747 B.C.E.
	3	02989	Mar 27	2746 B.C.E.	18:16:33	0718473.2614947	-2746	Mar 28	12:44:23	066469	LTU	0.4210	1.0444	23.4N	90.0E	14 10 2746 B.C.E.
	4	02990	Jul 24	2746 B.C.E.	01:49:13	0718650.5758417	-2746	Jul 24	20:17:00	066469	LTU	-0.3522	1.2234	24.2S	28.1W	15 04 2746 B.C.E.
32	1	03027	Feb 19	2729 B.C.E.	01:38:21	0724704.5682971	-2729	Feb 19	19:57:45	065965	LTU	-0.3532	1.1715	18.3N	19.5W	14 11 2729 B.C.E.
	2	03028	Aug 13	2729 B.C.E.	18:14:47	0724881.2602711	-2729	Aug 14	12:34:12	065965	LTU	0.4030	1.1396	20.6S	87.0E	14 05 2729 B.C.E.
	3	03029	Mar 07	2728 B.C.E.	01:36:25	0725058.5669617	-2728	Mar 07	19:55:23	065936	LTU	0.3757	1.3022	21.6N	19.2W	14 11 2728 B.C.E.
	4	03030	Aug 03	2728 B.C.E.	09:45:40	0725235.9067131	-2728	Aug 04	04:04:34	065936	LTU	-0.3079	1.1307	23.1S	146.4W	14 04 2728 B.C.E.
33	1	03051	Jan 18	2718 B.C.E.	03:07:37	0728690.6302940	-2718	Jan 18	21:21:40	065641	LTU	0.3327	1.2373	24.1N	43.6W	13 10 2718 B.C.E.
	2	03052	Jul 14	2718 B.C.E.	17:22:17	0728868.2238041	-2718	Jul 15	11:36:16	065641	LTU	-0.3246	1.2395	24.3S	97.9E	15 04 2718 B.C.E.
	3	03053	Jan 07	2717 B.C.E.	15:48:56	0729045.1589778	-2717	Jan 08	10:02:28	065611	LTU	-0.3839	1.1659	23.6N	124.8E	14 10 2717 B.C.E.
	4	03054	Jul 02	2717 B.C.E.	19:21:20	0729222.3064799	-2717	Jul 03	13:34:50	065611	LTU	0.4294	1.0327	23.0S	67.4E	14 03 2717 B.C.E.
34	1	03067	Mar 01	2711 B.C.E.	08:37:16	0731289.8592164	-2711	Mar 02	02:47:51	065435	LTU	-0.4144	1.0602	15.2N	124.4W	14 11 2711 B.C.E.
	2	03068	Aug 25	2711 B.C.E.	02:39:41	0731466.6108863	-2711	Aug 25	20:50:16	065435	LTU	0.4324	1.0430	18.0S	38.9W	14 05 2711 B.C.E.
	3	03069	Feb 18	2710 B.C.E.	08:47:12	0731643.8661092	-2710	Feb 19	02:57:18	065405	LTU	0.3228	1.2299	19.0N	126.6W	14 10 2710 B.C.E.
	4	03070	Aug 14	2710 B.C.E.	17:50:33	0731821.2434388	-2710	Aug 15	12:00:36	065405	LTU	-0.2717	1.3653	21.2S	93.1E	15 05 2710 B.C.E.
35	1	03091	Jan 28	2700 B.C.E.	11:08:36	0735275.9643050	-2700	Jan 29	05:13:49	065111	LTU	0.3634	1.1844	23.1N	162.8W	13 10 2700 B.C.E.
	2	03092	Jul 25	2700 B.C.E.	00:37:31	0735453.5260492	-2700	Jul 25	18:42:40	065111	LTU	-0.3817	1.1315	24.0S	10.0W	15 04 2700 B.C.E.
	3	03093	Jan 18	2699 B.C.E.	00:16:33	0735630.5114932	-2699	Jan 18	21:16:16	065082	LTU	-0.3592	1.2135	24.4N	0.9W	13 10 2699 B.C.E.
	4	03094	Jul 14	2699 B.C.E.	02:10:42	0735807.5907614	-2699	Jul 14	20:15:23	065082	LTU	0.3622	1.1542	23.7S	34.2W	14 04 2699 B.C.E.
36	1	03115	Dec 29	2690 B.C.E.	15:43:18	0739263.1550731	-2690	Dec 30	09:43:35	064818	LTU	-0.3077	1.3060	23.1N	125.4E	15 09 2690 B.C.E.
	2	03116	Jun 22	2689 B.C.E.	23:44:45	0739439.4894075	-2689	Jun 23	17:44:34	064788	LTU	0.3651	1.1920	21.8S	1.1E	13 03 2689 B.C.E.
	3	03117	Dec 18	2689 B.C.E.	04:42:50	0739617.6964072	-2689	Dec 18	22:42:36	064788	LTU					

7000 Year Canon of Total Lunar Eclipse Tetrads

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time (TDT) of Maximum Eclipse		Lunar Eclipse Type	Delta T (seconds)	Gamma	Umb. Mag.	Greatest in Zenith		Hebrew Date on the Creation Calendar	
			Day	Month	Day	Month	Day	Month					Lat.	Lon.	Day	Month
43	1	04123	Apr 30	2277 B.C.E.	17:57:24	0889869.2481980	-2277	May 01 08:45:45	053303	LTU	0.4443	1.0213	7.8S	90.0E	15 01	2277 B.C.E.
	2	04124	Oct 24	2277 B.C.E.	08:31:16	0890045.8550493	-2277	Oct 24 23:19:40	053303	LTU	-0.1979	1.5061	5.3N	129.0W	13 07	2277 B.C.E.
	3	04125	Apr 19	2276 B.C.E.	19:38:44	0890223.3185655	-2276	Apr 20 10:26:40	053276	LTU	-0.3267	1.2243	4.2S	65.6E	14 01	2276 B.C.E.
	4	04126	Oct 14	2276 B.C.E.	00:11:41	0890400.5081080	-2276	Oct 14 14:59:36	053276	LTU	0.4681	1.0107	1.5N	3.9W	14 07	2276 B.C.E.
44	1	04262	Mar 21	2219 B.C.E.	11:06:39	0911012.9629552	-2219	Mar 22 01:29:38	051779	LTU	0.2967	1.3410	7.5N	163.0W	14 12	2219 B.C.E.
	2	04263	Sep 14	2219 B.C.E.	02:04:12	0911189.5862480	-2219	Sep 14 16:27:12	051779	LTU	-0.3601	1.1540	11.1S	30.2W	13 06	2219 B.C.E.
	3	04264	Mar 11	2218 B.C.E.	03:18:04	0911367.6375463	-2218	Mar 11 17:40:36	051753	LTU	-0.4400	1.0642	10.7N	45.3W	15 12	2218 B.C.E.
	4	04265	Sep 03	2218 B.C.E.	06:11:19	0911543.7578603	-2218	Sep 03 20:33:54	051753	LTU	0.3619	1.1768	14.3S	92.0W	13 06	2218 B.C.E.
45	1	04305	Mar 31	2201 B.C.E.	18:50:01	0917598.2847357	-2201	Apr 01 09:05:12	051311	LTU	0.3618	1.2224	3.4N	80.1E	14 13	2201 B.C.E.
	2	04306	Sep 24	2201 B.C.E.	09:57:18	0917774.9147910	-2201	Sep 25 00:12:30	051311	LTU	-0.3795	1.1178	6.9S	148.9W	13 06	2201 B.C.E.
	3	04307	Mar 21	2200 B.C.E.	10:57:13	0917952.9564050	-2200	Mar 22 01:11:57	051285	LTU	-0.3803	1.1735	6.8N	161.0W	14 12	2200 B.C.E.
	4	04308	Sep 13	2200 B.C.E.	14:20:42	0918129.0977109	-2200	Sep 14 04:35:29	051285	LTU	0.3380	1.2208	10.5S	145.4E	12 06	2200 B.C.E.
46	1	04346	Apr 12	2183 B.C.E.	02:27:07	0924183.6021668	-2183	Apr 12 16:34:33	050846	LTU	0.4320	1.0941	0.8S	35.3W	14 01	2183 B.C.E.
	2	04347	Oct 05	2183 B.C.E.	17:59:23	0924360.2495693	-2183	Oct 06 08:06:50	050846	LTU	-0.3922	1.0943	2.5S	90.0E	14 07	2183 B.C.E.
	3	04348	Apr 01	2182 B.C.E.	18:28:20	0924538.2696733	-2182	Apr 02 08:35:18	050820	LTU	-0.3149	1.2932	2.7N	85.2E	15 13	2182 B.C.E.
	4	04349	Sep 24	2182 B.C.E.	22:39:36	0924714.4441692	-2182	Sep 25 12:46:38	050820	LTU	0.3210	1.2522	6.4S	20.2E	13 06	2182 B.C.E.
47	1	04372	Mar 12	2172 B.C.E.	02:06:31	0928170.5878532	-2172	Mar 12 16:09:11	050562	LTU	-0.3056	1.2737	10.2N	27.5W	15 12	2172 B.C.E.
	2	04373	Sep 04	2172 B.C.E.	09:49:24	0928346.9093037	-2172	Sep 04 23:52:07	050562	LTU	0.3574	1.2178	13.6S	146.5W	13 06	2172 B.C.E.
	3	04374	Mar 01	2171 B.C.E.	03:44:39	0928524.6560042	-2171	Mar 01 17:46:55	050536	LTU	0.4443	1.0028	14.7N	51.2W	14 12	2171 B.C.E.
	4	04375	Aug 25	2171 B.C.E.	02:03:52	0928701.5860215	-2171	Aug 25 16:06:08	050536	LTU	-0.3344	1.2624	17.6S	29.9W	14 05	2171 B.C.E.
48	1	04413	Mar 23	2154 B.C.E.	09:06:42	0934755.8796476	-2154	Mar 23 23:01:40	050100	LTU	-0.3745	1.1471	6.1N	133.4W	14 12	2154 B.C.E.
	2	04414	Sep 15	2154 B.C.E.	18:24:23	0934932.2669319	-2154	Sep 16 08:19:24	050100	LTU	0.3761	1.1829	9.7S	84.4E	14 06	2154 B.C.E.
	3	04415	Mar 11	2153 B.C.E.	10:36:38	0935109.9421075	-2153	Mar 12 00:31:12	050074	LTU	0.3798	1.1226	10.9N	154.8W	14 12	2153 B.C.E.
	4	04416	Sep 04	2153 B.C.E.	10:29:43	0935286.9373006	-2153	Sep 05 00:24:16	050074	LTU	-0.3084	1.3080	14.2S	156.4W	14 06	2153 B.C.E.
49	1	04437	Feb 19	2143 B.C.E.	08:10:14	0938741.8404401	-2143	Feb 19 22:00:34	049818	LTU	0.3468	1.1984	17.5N	117.4W	13 11	2143 B.C.E.
	2	04438	Aug 15	2143 B.C.E.	22:19:32	0938919.4302346	-2143	Aug 16 12:09:48	049818	LTU	-0.3364	1.2306	20.0S	26.0E	15 05	2143 B.C.E.
	3	04439	Mar 08	2142 B.C.E.	17:09:59	0939096.2152684	-2142	Mar 09 06:59:53	049792	LTU	-0.4008	1.1253	19.6W	107.3E	13 11	2142 B.C.E.
	4	04440	Aug 05	2142 B.C.E.	03:53:00	0939273.6617998	-2142	Aug 05 17:42:50	049792	LTU	0.4126	1.0668	21.5S	58.1W	14 05	2142 B.C.E.
50	1	04454	Apr 02	2136 B.C.E.	15:58:56	0941341.1659206	-2136	Apr 03 05:46:14	049640	LTU	-0.4490	1.0102	1.9N	122.4E	15 13	2136 B.C.E.
	2	04455	Sep 26	2136 B.C.E.	03:06:58	0941517.6298418	-2136	Sep 26 16:54:54	049640	LTU	0.3887	1.1590	5.4S	46.7W	13 06	2136 B.C.E.
	3	04456	Mar 22	2135 B.C.E.	17:19:59	0941695.2222120	-2135	Mar 23 07:06:53	049614	LTU	0.3081	1.2557	6.8N	103.4E	14 12	2135 B.C.E.
	4	04457	Sep 15	2135 B.C.E.	19:03:10	0941872.2938660	-2135	Sep 16 08:50:03	049614	LTU	-0.2892	1.3413	10.2S	74.9E	14 06	2135 B.C.E.
51	1	04462	Jan 19	2132 B.C.E.	07:33:39	0942728.8150386	-2132	Jan 19 21:19:17	049537	LTU	-0.2482	1.4218	23.1N	109.9W	14 10	2132 B.C.E.
	2	04463	Jul 14	2132 B.C.E.	23:43:16	0942905.4883773	-2132	Jul 15 13:28:54	049537	LTU	0.3478	1.1845	18.6S	3.1E	14 04	2132 B.C.E.
	3	04464	Jan 08	2131 B.C.E.	23:12:42	0943083.4671505	-2131	Jan 09 12:57:52	049512	LTU	0.4444	1.0504	24.4N	14.2E	14 10	2131 B.C.E.
	4	04465	Oct 04	2131 B.C.E.	03:46:07	0943259.6570310	-2131	Oct 04 17:31:22	049512	LTU	-0.4153	1.0840	24.1S	58.5W	13 03	2131 B.C.E.
52	1	04478	Mar 01	2125 B.C.E.	15:30:13	0945327.1459822	-2125	Mar 02 05:12:54	049359	LTU	0.4004	1.1033	14.2N	132.4E	14 12	2125 B.C.E.
	2	04479	Aug 26	2125 B.C.E.	06:13:34	0945504.7594161	-2125	Aug 26 19:56:11	049359	LTU	-0.3724	1.1612	17.0S	92.3W	14 05	2125 B.C.E.
	3	04480	Feb 19	2124 B.C.E.	01:06:16	0945681.5460225	-2124	Feb 19 14:48:32	049334	LTU	-0.3580	1.2071	16.9N	11.6W	13 11	2124 B.C.E.
	4	04481	Aug 15	2124 B.C.E.	11:10:53	0945858.9658867	-2124	Aug 16 00:53:05	049334	LTU	0.3647	1.1517	19.4S	167.1W	14 05	2124 B.C.E.
53	1	04502	Jan 30	2114 B.C.E.	15:59:31	0949314.1663306	-2114	Jan 31 05:37:31	049080	LTU	-0.2769	1.3706	21.5N	124.5E	14 11	2114 B.C.E.
	2	04503	Jul 26	2114 B.C.E.	06:41:16	0949490.7786575	-2114	Jul 26 20:19:17	049080	LTU	0.4104	1.0689	22.8S	100.6W	13 04	2114 B.C.E.
	3	04504	Jan 20	2113 B.C.E.	07:41:11	0949668.8202665	-2113	Jan 20 21:18:45	049055	LTU	0.4246	1.0868	23.7N	111.7W	14 10	2113 B.C.E.
	4	04505	Jul 14	2113 B.C.E.	11:01:05	0949844.9590877	-2113	Jul 15 00:38:42	049055	LTU	-0.3493	1.2055	24.2S	166.4W	13 04	2113 B.C.E.
54	1	04567	Jan 10	2085 B.C.E.	23:22:30	0959886.4739611	-2085	Jan 11 12:48:16	048348	LTU	0.2752	1.3232	24.1N	12.0E	15 10	2085 B.C.E.
	2	04568	Jul 05	2085 B.C.E.	06:14:11	0960062.7598481	-2085	Jul 05 19:40:00	048348	LTU	-0.3064	1.3179	24.1S	95.3W	13 04	2085 B.C.E.
	3	04569	Dec 30	2085 B.C.E.	00:47:52	0960240.5332460	-2085	Dec 30 14:13:40	048348	LTU	-0.4329	1.0144	23.3N	10.7W	14 10	2085 B.C.E.
	4	04570	Jun 24	2084 B.C.E.	23:13:41	0960417.4678302	-2084	Jun 25 12:39:03	048323	LTU	0.4240	1.1073	22.5S	9.2E	14 03	2084 B.C.E.
55	1	04608	Jan 21	2067 B.C.E.	07:18:02	0966471.8041856	-2067	Jan 21 20:36:15	047896	LTU	0.3014	1.2753	23.3N	105.7W	14 10	2067 B.C.E.
	2	04609	Jul 16	2067 B.C.E.	14:01:10	0966648.0841408	-2067	Jul 17 03:19:27	047896	LTU	-0.3645	1.2109	24.2S	148.8E	13 04	2067 B.C.E.
	3	04610	Jan 10	2066 B.C.E.	08:34:13	0966825.8570923	-2066	Jan 10 21:52:03	047871	LTU	-0.4117	1.0546	23.5S	126.0W	14 10	2066 B.C.E.
	4	04611	Jul 06	2066 B.C.E.	06:56:17	0967002.7890849	-2066	Jul 06 20:14:07	047871	LTU	0.3607	1.2218	23.5N	105.8W	14 04	2066 B.C.E.
56	1	04649	Feb 01	2049 B.C.E.	15:04:14	0973057.1279423	-2049	Feb 02 04:14:59	047447	LTU	0.3349	1.2140	21.7N	138.6E	14 11	2049 B.C.E.
	2	04650	Jul 26	2049 B.C.E.	21:55:41	0973233.4136666	-2049	Jul 27 11:06:29	047447	LTU	-0.4168	1.1144	23.4S	31.0E	14 04	2049 B.C.E.
	3	04651	Jan 20	2048 B.C.E.	16:12:18	0973411.1752105	-2048	Jan 21 05:22:40	047422	LTU	-0.3839	1.1069	22.8N	120.5E	14 10	2048 B.C.E.
	4	04652	Jul 16	2048 B.C.E.	14:44:32	0973588.1142538	-2048	Jul 17 03:54:53	047422	LTU	0.3022	1.3273	23.5S	137.9E	14 04	2048 B.C.E.
57	1	04692	Feb 11	2031 B.C.E.	22:37:43	0979642.4428641	-2031	Feb 12 11:41:02	047000	LTU	0.3779	1.1354	19.3N	25.7E	15 11	2031 B.C.E.
	2	04693	Aug 07	2031 B.C.E.	05:58:52	0979818.7492116	-2031	Aug 07 19:02:13	047000	LTU	-0.4623	1.0300	21.8S	89.1W	13 05	2031 B.C.E.
	3	04694	Jan 31	2030 B.C.E.	23:39:49	0979996.48										

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TDT) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Gamma	Umb. Mag.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day Month Year
64	1 . . .	05791	Mar 13 1586 B. C. E.	1142207.8304257	-1586 Mar 13 18:06:50	036654	LTU	0.3264	1.2225	8.8N 115.0W	13 12 1586 B. C. E.
	2 . . .	05792	Sep 06 1586 B. C. E.	1142385.1952491	-1586 Sep 07 02:52:02	036654	LTU	-0.2950	1.3225	12.2S 110.4E	15 06 1586 B. C. E.
	3 . . .	05793	Mar 01 1585 B. C. E.	1142562.0053110	-1585 Mar 01 22:18:13	036632	LTU	-0.4268	1.0610	12.2N 177.5W	13 12 1585 B. C. E.
	4 . . .	05794	Aug 26 1585 B. C. E.	1142739.6269460	-1585 Aug 26 13:13:18	036632	LTU	0.4429	1.0254	15.1S 45.1W	14 05 1585 B. C. E.
65	1 . . .	05808	Apr 24 1579 B. C. E.	1144807.0441541	-1579 Apr 24 23:11:56	036503	LTU	-0.4498	1.0275	8.1S 163.6E	14 01 1579 B. C. E.
	2 . . .	05809	Oct 17 1579 B. C. E.	1144983.3256736	-1579 Oct 18 05:57:23	036503	LTU	0.3294	1.2544	4.8N 61.0E	13 07 1579 B. C. E.
	3 . . .	05810	Apr 13 1578 B. C. E.	1145161.2670516	-1578 Apr 14 04:32:33	036481	LTU	0.3267	1.2289	3.2S 84.7E	15 01 1578 B. C. E.
	4 . . .	05811	Oct 07 1578 B. C. E.	1145337.9466782	-1578 Oct 07 20:51:14	036481	LTU	-0.3505	1.2306	0.2S 161.8W	13 07 1578 B. C. E.
66	1 . . .	05816	Feb 09 1575 B. C. E.	1146194.4489190	-1575 Feb 10 08:53:24	036416	LTU	-0.2187	1.4718	18.4N 23.2E	14 11 1575 B. C. E.
	2 . . .	05817	Aug 06 1575 B. C. E.	1146371.5658212	-1575 Aug 16 18:42:43	036416	LTU	0.2977	1.2709	20.6S 23.2W	14 05 1575 B. C. E.
	3 . . .	05818	Jan 30 1574 B. C. E.	1146549.1241238	-1574 Jan 31 01:05:18	036394	LTU	0.4776	1.0008	21.5N 139.8E	13 11 1574 B. C. E.
	4 . . .	05819	Jul 26 1574 B. C. E.	1146725.5867236	-1574 Jul 26 12:11:28	036394	LTU	-0.4392	1.2315	23.1S 31.3W	13 04 1574 B. C. E.
67	1 . . .	05832	Mar 23 1568 B. C. E.	1148793.1158043	-1568 Mar 24 00:51:12	036265	LTU	0.3950	1.1005	4.8N 141.4E	13 13 1568 B. C. E.
	2 . . .	05833	Sep 17 1568 B. C. E.	1148970.5435588	-1568 Sep 17 11:07:07	036265	LTU	-0.3190	1.2757	8.1S 15.5E	14 06 1568 B. C. E.
	3 . . .	05834	Mar 12 1567 B. C. E.	1149147.3142570	-1567 Mar 13 05:36:37	036243	LTU	-0.3697	1.1691	8.3N 70.6W	13 12 1567 B. C. E.
	4 . . .	05835	Sep 06 1567 B. C. E.	1149324.9528986	-1567 Sep 06 20:56:12	036243	LTU	0.4112	1.0802	11.5S 162.7W	14 06 1567 B. C. E.
68	1 . . .	05857	Feb 21 1557 B. C. E.	1152779.7878670	-1557 Feb 21 16:55:01	036028	LTU	-0.2574	1.4033	15.2N 98.8W	13 12 1557 B. C. E.
	2 . . .	05858	Aug 16 1557 B. C. E.	1152956.8626781	-1557 Aug 16 18:42:43	036028	LTU	0.3502	1.1726	18.0S 129.8W	14 05 1557 B. C. E.
	3 . . .	05859	Feb 09 1556 B. C. E.	1153134.4717627	-1556 Feb 10 09:19:26	036006	LTU	0.4460	1.0600	18.9N 15.1E	14 11 1556 B. C. E.
	4 . . .	05860	Aug 05 1556 B. C. E.	1153310.8844257	-1556 Aug 05 19:13:42	036006	LTU	-0.3804	1.1287	21.1S 137.9W	13 05 1556 B. C. E.
69	1 . . .	05897	Mar 03 1539 B. C. E.	1159365.1228187	-1539 Mar 04 00:50:54	035641	LTU	-0.3012	1.3252	11.5N 140.2E	13 12 1539 B. C. E.
	2 . . .	05898	Aug 27 1539 B. C. E.	1159542.1652328	-1539 Aug 28 01:51:57	035641	LTU	0.3957	1.0871	14.7S 121.2E	13 06 1539 B. C. E.
	3 . . .	05899	Mar 21 1538 B. C. E.	1159719.8146964	-1538 Mar 21 17:26:48	035619	LTU	0.4091	1.1288	15.7N 108.3W	14 12 1538 B. C. E.
	4 . . .	05900	Aug 16 1538 B. C. E.	1159896.1890116	-1538 Aug 17 02:25:52	035619	LTU	-0.3289	1.2228	18.6S 112.8E	13 05 1538 B. C. E.
70	1 . . .	05938	Mar 13 1521 B. C. E.	1165950.4512091	-1521 Mar 14 08:37:22	035257	LTU	-0.3535	1.2316	7.5N 21.2E	14 12 1521 B. C. E.
	2 . . .	05939	Sep 06 1521 B. C. E.	1166127.4752952	-1521 Sep 07 09:12:03	035257	LTU	0.4322	1.0183	11.0S 9.3E	14 06 1521 B. C. E.
	3 . . .	05940	Mar 03 1520 B. C. E.	1166305.1509134	-1520 Mar 04 01:24:34	035236	LTU	0.3643	1.2118	12.1N 130.2E	15 12 1520 B. C. E.
	4 . . .	05941	Aug 27 1520 B. C. E.	1166481.5014135	-1520 Aug 27 09:49:20	035236	LTU	-0.2858	1.2014	15.4S 0.3E	13 05 1520 B. C. E.
71	1 . . .	06045	Mar 05 1474 B. C. E.	1183108.3337262	-1474 Mar 06 05:31:36	034264	LTU	0.3466	1.2140	11.3N 64.4E	15 12 1474 B. C. E.
	2 . . .	06046	Aug 28 1474 B. C. E.	1183284.4102329	-1474 Aug 29 07:21:50	034264	LTU	-0.4550	1.0288	15.0S 33.2E	13 06 1474 B. C. E.
	3 . . .	06047	Feb 23 1473 B. C. E.	1183462.5622712	-1473 Feb 23 11:00:22	034243	LTU	-0.4079	1.0745	14.4N 17.8W	14 12 1473 B. C. E.
	4 . . .	06048	Aug 17 1473 B. C. E.	1183639.0502366	-1473 Aug 17 22:43:04	034243	LTU	0.2610	1.4012	17.5S 162.6E	13 05 1473 B. C. E.
72	1 . . .	06070	Feb 01 1463 B. C. E.	1187094.3619216	-1463 Feb 02 06:08:25	034034	LTU	-0.3818	1.1155	20.0N 54.3E	14 11 1463 B. C. E.
	2 . . .	06071	Jul 29 1463 B. C. E.	1187271.7093404	-1463 Jul 29 14:28:39	034034	LTU	0.3563	1.2163	21.7S 75.2W	14 05 1463 B. C. E.
	3 . . .	06072	Jan 22 1462 B. C. E.	1187448.5085355	-1462 Jan 22 09:39:12	034013	LTU	0.3440	1.2064	22.7N 0.8E	13 11 1462 B. C. E.
	4 . . .	06073	Jul 18 1462 B. C. E.	1187626.1696231	-1462 Jul 19 01:31:06	034013	LTU	-0.4056	1.1006	23.8S 118.5E	14 04 1462 B. C. E.
73	1 . . .	06111	Feb 13 1445 B. C. E.	1193679.6719068	-1445 Feb 13 13:28:34	033660	LTU	-0.4207	1.0467	17.2N 57.1W	13 11 1445 B. C. E.
	2 . . .	06112	Aug 08 1445 B. C. E.	1193857.0356808	-1445 Aug 08 22:12:22	033660	LTU	0.4068	1.1208	19.6S 167.7E	14 05 1445 B. C. E.
	3 . . .	06113	Mar 01 1444 B. C. E.	1194033.8407833	-1444 Feb 01 17:31:25	033639	LTU	0.3152	1.2623	20.7N 118.1W	13 11 1444 B. C. E.
	4 . . .	06114	Jul 28 1444 B. C. E.	1194211.4731953	-1444 Jul 29 08:42:01	033639	LTU	-0.3467	1.2054	22.4S 9.9E	15 05 1444 B. C. E.
74	1 . . .	06135	Jan 12 1434 B. C. E.	1197666.2670238	-1434 Jan 13 03:41:44	033432	LTU	0.3488	1.2299	23.8N 86.9E	14 10 1434 B. C. E.
	2 . . .	06136	Jul 08 1434 B. C. E.	1197843.4327021	-1434 Jul 09 07:40:17	033432	LTU	-0.3521	1.1752	24.2S 23.2E	14 04 1434 B. C. E.
	3 . . .	06137	Jan 02 1433 B. C. E.	1198020.9275560	-1433 Jan 02 19:32:31	033411	LTU	-0.3304	1.2670	23.5N 152.2W	14 10 1433 B. C. E.
	4 . . .	06138	Jun 26 1433 B. C. E.	1198197.4718757	-1433 Jun 27 08:36:23	033411	LTU	0.4050	1.0882	23.2S 8.4E	13 03 1433 B. C. E.
75	1 . . .	06176	Jan 23 1416 B. C. E.	1204251.6223859	-1416 Jan 23 12:07:16	033061	LTU	0.3686	1.1958	22.4N 40.0W	13 11 1416 B. C. E.
	2 . . .	06177	Jul 19 1416 B. C. E.	1204428.7128349	-1416 Jul 19 14:17:30	033061	LTU	-0.4246	1.0407	23.6S 76.9W	14 04 1416 B. C. E.
	3 . . .	06178	Jan 12 1415 B. C. E.	1204606.2903129	-1415 Jan 13 04:08:43	033040	LTU	-0.3166	1.2930	23.1N 78.4E	14 10 1415 B. C. E.
	4 . . .	06179	Jul 08 1415 B. C. E.	1204782.7551934	-1415 Jul 08 15:18:10	033040	LTU	0.3286	1.2285	23.5S 93.0W	13 04 1415 B. C. E.
76	1 . . .	06201	Dec 24 1406 B. C. E.	1208238.7917699	-1406 Dec 24 16:07:42	032855	LTU	-0.3725	1.1617	23.2N 104.3W	14 10 1406 B. C. E.
	2 . . .	06202	Jun 17 1405 B. C. E.	1208415.0075975	-1405 Jun 17 21:18:13	032835	LTU	0.2979	1.3206	22.4S 175.1E	13 03 1405 B. C. E.
	3 . . .	06203	Dec 12 1405 B. C. E.	1208593.0376792	-1405 Dec 12 22:01:29	032835	LTU	0.3348	1.2023	22.6N 165.8E	14 09 1405 B. C. E.
	4 . . .	06204	Jun 10 1404 B. C. E.	1208769.6477849	-1404 Jun 07 12:39:43	032814	LTU	-0.4566	1.0481	21.4S 55.8W	14 03 1404 B. C. E.
77	1 . . .	06242	Jan 03 1387 B. C. E.	1212484.1463390	-1387 Jan 04 00:31:50	032468	LTU	-0.3825	1.1429	23.5N 129.3E	15 10 1387 B. C. E.
	2 . . .	06243	Jun 28 1387 B. C. E.	1215000.3129919	-1387 Jun 29 04:31:52	032468	LTU	0.3691	1.1907	23.3S 65.7E	13 04 1387 B. C. E.
	3 . . .	06244	Dec 23 1387 B. C. E.	1215178.3791212	-1387 Dec 24 06:07:02	032468	LTU	0.3284	1.2138	23.8N 44.1E	15 10 1387 B. C. E.
	4 . . .	06245	Jun 18 1386 B. C. E.	1215354.9614414	-1386 Jun 18 20:05:16	032447	LTU	-0.3834	1.1825	23.1S 168.4W	13 03 1386 B. C. E.
78	1 . . .	06285	Jan 14 1369 B. C. E.	1221409.4937451	-1369 Jan 15 08:46:00	032102	LTU	-0.3997	1.1111	22.8N 5.4E	15 10 1369 B. C. E.
	2 . . .	06286	Jul 09 1369 B. C. E.	1221585.6238038	-1369 Jul 09 11:53:20	032102	LTU	0.4345	1.0713	23.4S 45.5W	13 04 1369 B. C. E.
	3 . . .	06287	Jan 03 1368 B. C. E.	1221763.7150775	-1368 Jan 03 14:04:23	032082	LTU	0.3164	1.2359	24.1N 75.5W	14 10 1368 B. C. E.
	4 . . .	06288	Jun 28 1368 B. C. E.	1221940.2782798	-1368 Jun 29 03:35:26	032082	LTU	-0.3138	1.3098	24.0S 78.1E	14 04 1368 B. C. E.
79	1 . . .	07060	Apr 24 1058 B. C. E.	1335102.1495591	-1058 Apr 24 22:51:02	026142	LTU	-0.3242	1.2791	9.4S 125.5E	14 01 1058 B. C. E.
	2 . . .	07061	Oct 17 1058 B. C. E.	1335278.4070108	-1058 Oct 18 05:01:50	026142	LTU	0.2654	1.3502	6.1N 31.2E	13 07 1058 B. C. E.
	3 . . .	07062	Mar 13 1057 B. C. E.	1335456.6198364	-1057 Mar 13 10:07:56	026124	LTU	0.4553	1.0112	4.7S 42.6W	15 01 1057 B. C. E.
	4 . . .	07063	Oct 06 1057 B. C. E.	1335632.8728178	-1057 Oct 06 16:12:17	026124	LTU	-0.4375	1.0618	1.1N 135.7W	13 07 1057 B. C. E.
80	1 . . .	07103	May 04 1040 B. C. E.	1341687.4560444	-1040 May 05 06:06:58	025817	LTU	-0.3985	1.1419	13.3S 14.3E	15 02 1040 B. C. E.
	2 . . .	07104	Oct 28 1040 B. C. E.	1341863.7598058	-1040 Oct 28 13:24:26	025817	LTU	0.2701	1.3423	10.4N 96.2W	13 08 1040 B. C. E.
	3 . . .	07105	Apr 24 1039 B. C. E.	1342041.9106672	-1039 Apr 24 17:01:19	025799	LTU	0.3814	1.1458	8.8S 148.3W	14 01 1039 B. C. E.
	4 . . .	07106	Oct 17 1039 B. C. E.	1342218.2356925	-1039 Oct 18 00:49:24	025799	LTU	-0.4277	1.0800	5.5N 93.1E	13 07 1039 B. C. E.
81	1 . . .	07128	Apr 03 1029 B. C. E.								

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time (TDT) of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Gamma	Umb. Mag.	Greatest in Zenith Lon.		Hebrew Date on the Creation Calendar Day Month Year				
			Year	Month	Day	Time	Year	Month					Day	Time	Year	Month	Day	Time	Year
85	1 . . .	07277	Apr 04	964	B. C. E.	13: 47: 48	1369416.0748631	-0964	Apr 04	20: 35: 41	024471	LTU	-0.3854	1.1616	2.4S	154.2E	13 01	964	B. C. E.
	2 . . .	07278	Sep 29	964	B. C. E.	01: 47: 28	1369593.5746325	-0964	Sep 29	08: 35: 18	024471	LTU	0.3223	1.2058	1.0S	28.1W	14 07	964	B. C. E.
	3 . . .	07279	Mar 25	963	B. C. E.	05: 24: 40	1369770.7254580	-0963	Mar 25	12: 12: 14	024454	LTU	0.3550	1.2323	2.5N	78.7W	14 13	963	B. C. E.
	4 . . .	07280	Sep 18	963	B. C. E.	01: 21: 10	1369947.5563640	-0963	Sep 18	08: 08: 45	024454	LTU	-0.3673	1.1378	1.6S	20.7W	14 06	963	B. C. E.
86	1 . . .	07319	Apr 15	946	B. C. E.	21: 15: 45	1376001.3859347	-0946	Apr 16	03: 58: 24	024158	LTU	-0.4499	1.0458	6.6S	41.1E	13 01	946	B. C. E.
	2 . . .	07320	Oct 10	946	B. C. E.	09: 40: 15	1376178.9029539	-0946	Oct 10	16: 22: 52	024158	LTU	0.3513	1.1687	3.4N	147.0W	14 07	946	B. C. E.
	3 . . .	07321	Apr 04	945	B. C. E.	13: 11: 50	1376356.0498886	-0945	Apr 04	19: 54: 11	024140	LTU	0.2955	1.3428	1.9S	163.4E	13 01	945	B. C. E.
	4 . . .	07322	Sep 28	945	B. C. E.	09: 01: 48	1376532.8762473	-0945	Sep 28	15: 44: 08	024140	LTU	-0.3410	1.1850	1.7S	136.5W	13 07	945	B. C. E.
87	1 . . .	07369	Feb 12	924	B. C. E.	15: 29: 26	1383975.1454432	-0924	Feb 12	22: 05: 44	023778	LTU	-0.2696	1.3192	16.2N	132.4E	15 11	924	B. C. E.
	2 . . .	07370	Aug 08	924	B. C. E.	11: 54: 07	1384151.9959116	-0924	Aug 08	18: 30: 24	023778	LTU	0.3019	1.3271	18.8S	177.9W	14 05	924	B. C. E.
	3 . . .	07371	Feb 01	923	B. C. E.	15: 25: 08	1384329.1424528	-0923	Feb 01	22: 01: 10	023761	LTU	0.4416	1.0090	19.8N	133.3E	14 11	923	B. C. E.
	4 . . .	07372	Jul 29	923	B. C. E.	03: 01: 32	1384506.6260650	-0923	Jul 29	09: 37: 31	023761	LTU	-0.4347	1.0674	21.8S	44.9W	15 05	923	B. C. E.
88	1 . . .	07386	Mar 26	917	B. C. E.	13: 16: 12	1386574.0529220	-0917	Mar 26	19: 50: 29	023658	LTU	0.3509	1.2266	1.6N	163.3E	14 13	917	B. C. E.
	2 . . .	07387	Sep 18	917	B. C. E.	16: 15: 37	1386750.1775084	-0917	Sep 18	22: 49: 56	023658	LTU	-0.4429	1.0294	5.6S	115.7E	13 06	917	B. C. E.
	3 . . .	07388	Mar 16	916	B. C. E.	00: 04: 52	1386928.5033782	-0916	Mar 16	06: 38: 51	023641	LTU	-0.4134	1.0838	5.1N	1.8E	15 12	916	B. C. E.
	4 . . .	07389	Sep 08	916	B. C. E.	04: 06: 19	1387104.6710510	-0916	Sep 08	10: 40: 22	023642	LTU	0.2864	1.3438	9.1S	61.7W	13 06	916	B. C. E.
89	1 . . .	07410	Feb 23	906	B. C. E.	22: 45: 49	1390560.4484866	-0906	Feb 24	05: 16: 59	023470	LTU	-0.3150	1.2374	12.6N	23.0E	14 12	906	B. C. E.
	2 . . .	07411	Aug 19	906	B. C. E.	19: 57: 26	1390737.3315469	-0906	Aug 20	02: 28: 35	023470	LTU	0.3474	1.2417	15.7S	91.3E	14 05	906	B. C. E.
	3 . . .	07412	Feb 12	905	B. C. E.	22: 59: 28	1390914.4579599	-0905	Feb 13	05: 30: 22	023453	LTU	0.4057	1.0778	16.9N	20.0E	14 11	905	B. C. E.
	4 . . .	07413	Aug 05	905	B. C. E.	10: 41: 40	1391091.9455991	-0905	Aug 08	17: 12: 31	023453	LTU	-0.3825	1.1600	19.4S	159.7W	14 05	905	B. C. E.
90	1 . . .	07450	Mar 06	888	B. C. E.	05: 52: 58	1397145.7451180	-0888	Mar 06	12: 19: 03	023165	LTU	-0.3678	1.1420	8.7N	84.4W	14 12	888	B. C. E.
	2 . . .	07451	Aug 30	888	B. C. E.	04: 07: 48	1397322.6720846	-0888	Aug 30	10: 33: 52	023165	LTU	0.3869	1.1672	12.1S	61.6W	14 06	888	B. C. E.
	3 . . .	07452	Feb 23	887	B. C. E.	06: 26: 15	1397499.7682338	-0887	Feb 23	12: 52: 05	023148	LTU	0.3627	1.1593	13.3N	91.9W	13 12	887	B. C. E.
	4 . . .	07453	Aug 19	887	B. C. E.	18: 28: 40	1397677.2699062	-0887	Aug 20	00: 54: 26	023148	LTU	-0.3367	1.2410	16.3S	83.6E	15 05	887	B. C. E.
91	1 . . .	07474	Feb 03	877	B. C. E.	10: 56: 13	1401131.9557007	-0877	Feb 03	17: 19: 12	022978	LTU	0.3269	1.2569	19.3N	159.3W	13 11	877	B. C. E.
	2 . . .	07475	Jul 29	877	B. C. E.	23: 04: 30	1401309.4614561	-0877	Jul 30	05: 27: 26	022978	LTU	-0.3240	1.2333	21.3S	14.5E	15 05	877	B. C. E.
	3 . . .	07476	Jan 23	876	B. C. E.	01: 11: 19	1401486.5495198	-0876	Jan 23	07: 34: 00	022961	LTU	-0.3782	1.1805	21.0N	13.9W	14 11	876	B. C. E.
	4 . . .	07477	Jul 18	876	B. C. E.	23: 48: 38	1401663.4921011	-0876	Jul 19	06: 11: 19	022961	LTU	0.4248	1.0411	22.4S	2.8E	14 04	876	B. C. E.
92	1 . . .	07490	Mar 17	870	B. C. E.	12: 49: 56	1403731.0346727	-0870	Mar 17	19: 10: 57	022861	LTU	-0.4286	1.0320	4.5N	170.5E	14 12	870	B. C. E.
	2 . . .	07491	Sep 10	870	B. C. E.	12: 27: 07	1403908.0188333	-0870	Sep 10	18: 48: 08	022861	LTU	0.4185	1.1072	8.1S	173.0E	14 06	870	B. C. E.
	3 . . .	07492	Mar 05	869	B. C. E.	13: 44: 24	1404085.0725023	-0869	Mar 05	20: 05: 10	022844	LTU	0.3120	1.2555	9.4N	158.0E	13 12	869	B. C. E.
	4 . . .	07493	Aug 30	869	B. C. E.	02: 22: 23	1404262.5988781	-0869	Aug 30	08: 43: 05	022844	LTU	-0.2976	1.3096	12.7S	35.1W	14 06	869	B. C. E.
93	1 . . .	07514	Feb 13	859	B. C. E.	19: 02: 35	1407717.2934655	-0859	Feb 14	01: 20: 34	022677	LTU	0.3580	1.2029	16.3N	79.2E	13 11	859	B. C. E.
	2 . . .	07515	Aug 10	859	B. C. E.	06: 09: 29	1407894.7565856	-0859	Aug 10	12: 27: 25	022677	LTU	-0.3846	1.1194	18.9S	91.5W	14 05	859	B. C. E.
	3 . . .	07516	Feb 03	858	B. C. E.	09: 40: 58	1408071.9034518	-0858	Feb 03	15: 58: 39	022660	LTU	-0.3540	1.2268	18.6N	140.8W	13 11	858	B. C. E.
	4 . . .	07517	Jul 30	858	B. C. E.	06: 35: 37	1408248.7747390	-0858	Jul 30	12: 53: 18	022660	LTU	0.3548	1.1684	20.8S	98.5W	13 05	858	B. C. E.
94	1 . . .	07538	Jan 14	848	B. C. E.	00: 48: 21	1411704.5335815	-0848	Jan 14	07: 03: 12	022492	LTU	-0.3102	1.2958	22.4N	8.9W	14 10	848	B. C. E.
	2 . . .	07539	Jul 09	848	B. C. E.	06: 13: 28	1411880.7593530	-0848	Jul 09	12: 28: 23	022493	LTU	0.3446	1.2143	23.3S	93.9W	13 04	848	B. C. E.
	3 . . .	07540	Jan 03	847	B. C. E.	11: 55: 35	1412058.9969288	-0847	Jan 03	18: 10: 09	022476	LTU	0.4032	1.0974	24.1N	176.9W	14 10	847	B. C. E.
	4 . . .	07541	Jun 28	847	B. C. E.	17: 37: 48	1412235.2345859	-0847	Jun 28	23: 52: 26	022476	LTU	-0.4277	1.0891	24.2S	94.3E	14 04	847	B. C. E.
95	1 . . .	07554	Feb 25	841	B. C. E.	03: 03: 49	1414302.6276531	-0841	Feb 25	09: 16: 47	022376	LTU	0.3941	1.1396	12.8N	41.3W	13 12	841	B. C. E.
	2 . . .	07555	Aug 20	841	B. C. E.	13: 20: 23	1414480.0558199	-0841	Aug 20	19: 33: 18	022376	LTU	-0.4396	1.0156	15.8S	160.7E	14 05	841	B. C. E.
	3 . . .	07556	Feb 13	840	B. C. E.	18: 03: 30	1414657.2524269	-0840	Feb 14	00: 16: 10	022360	LTU	-0.3238	1.2841	15.6N	93.7E	14 11	840	B. C. E.
	4 . . .	07557	Aug 09	840	B. C. E.	13: 30: 33	1414834.0628798	-0840	Aug 09	19: 43: 14	022360	LTU	0.2910	1.2843	18.4S	158.0E	13 05	840	B. C. E.
96	1 . . .	07578	Jan 25	830	B. C. E.	09: 19: 55	1418289.8888333	-0830	Jan 25	15: 29: 48	022194	LTU	-0.3286	1.2621	20.6N	135.9W	14 11	830	B. C. E.
	2 . . .	07579	Jul 20	830	B. C. E.	13: 23: 04	1418466.0576851	-0830	Jul 20	19: 33: 00	022194	LTU	0.4117	1.0917	22.2S	159.3E	13 04	830	B. C. E.
	3 . . .	07580	Jan 14	829	B. C. E.	20: 14: 28	1418644.3433811	-0829	Jan 15	02: 24: 04	022178	LTU	0.3918	1.1178	23.1N	59.6E	15 10	829	B. C. E.
	4 . . .	07581	Jul 09	829	B. C. E.	01: 05: 49	1418820.5457092	-0829	Jul 09	07: 15: 29	022178	LTU	-0.3572	1.2190	23.9S	17.0W	13 04	829	B. C. E.
97	1 . . .	07687	Jan 15	783	B. C. E.	10: 07: 37	1435446.9219593	-0783	Jan 15	16: 04: 41	021424	LTU	0.4290	1.0219	22.9N	148.5W	14 10	783	B. C. E.
	2 . . .	07688	Jul 11	783	B. C. E.	09: 13: 13	1435623.8841736	-0783	Jul 11	15: 10: 16	021424	LTU	-0.3455	1.2522	23.8S	138.6W	14 04	783	B. C. E.
	3 . . .	07689	Jan 04	782	B. C. E.	09: 47: 02	1435800.9076600	-0782	Jan 04	15: 43: 52	021408	LTU	-0.2648	1.3303	23.4N	144.7W	13 10	782	B. C. E.
	4 . . .	07690	Jul 01	782	B. C. E.	00: 33: 16	1435978.5231025	-0782	Jul 01	06: 30: 02	021408	LTU	0.4062	1.1221	23.4S	9.4W	15 04	782	B. C. E.
98	1 . . .</																		

7000 Year Canon of Total Lunar Eclipse Tetrads

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT)		Astronomical Julian Date (UT)		(TDT) Date and Time of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Gamma	Umb. Mag.	Greatest in Zenith		Hebrew Date on the Creation Calendar							
			Month	Day	Hour	Minute	Year	Month					Day	Year	Month	Day	Year	Month	Day	Year		
106	1 . . .	08886	Feb	04	291	B. C. E.	15:50:12	1615170.1598575	-0291	Feb	04	19:41:27	013876	LTU	-0.2733	1.3749	17.1N	126.9E	14	11	291	B. C. E.
	. 2 . .	08887	Jul	31	291	B. C. E.	04:00:30	1615346.6670149	-0291	Jul	31	07:51:41	013870	LTU	0.3661	1.1556	19.5S	59.5W	13	05	291	B. C. E.
	. 3 . .	08888	Jan	25	290	B. C. E.	06:41:43	1615524.7789700	-0290	Jan	25	10:32:45	013864	LTU	0.4274	1.0750	20.5N	96.3W	14	11	290	B. C. E.
	. . 4	08889	Jul	20	290	B. C. E.	10:04:08	1615700.9195343	-0290	Jul	20	13:55:05	013857	LTU	-0.4019	1.1167	22.3S	150.6W	13	05	290	B. C. E.
107	1 . . .	08902	Mar	17	284	B. C. E.	21:02:53	1617768.3769998	-0284	Mar	18	00:52:36	013781	LTU	0.4207	1.0735	3.2N	47.1E	13	13	284	B. C. E.
	. 2 . .	08903	Sep	11	284	B. C. E.	12:16:06	1617946.0111799	-0284	Sep	11	16:05:38	013774	LTU	-0.3938	1.1142	6.6S	175.6E	14	06	284	B. C. E.
	. 3 . .	08904	Mar	07	283	B. C. E.	08:34:54	1618122.8575702	-0283	Mar	07	12:24:24	013768	LTU	-0.3313	1.2623	6.7N	125.4W	13	12	283	B. C. E.
	. . 4	08905	Aug	31	283	B. C. E.	15:18:25	1618300.1377865	-0283	Aug	31	19:07:46	013762	LTU	0.3390	1.1951	10.2S	130.3E	13	06	283	B. C. E.
108	1 . . .	08926	Feb	16	273	B. C. E.	00:15:44	1621755.5109306	-0273	Feb	16	04:03:01	013637	LTU	-0.3006	1.3259	13.7N	0.5E	14	12	273	B. C. E.
	. 2 . .	08927	Aug	10	273	B. C. E.	11:01:41	1621931.9595060	-0273	Aug	10	14:48:54	013631	LTU	0.4285	1.0408	16.7S	164.7W	13	05	273	B. C. E.
	. 3 . .	08928	Feb	04	272	B. C. E.	15:04:19	1622110.1280002	-0272	Feb	04	18:51:22	013624	LTU	0.4078	1.1108	17.7N	138.5E	14	11	272	B. C. E.
	. . 4	08929	Jul	30	272	B. C. E.	17:24:53	1622286.2256109	-0272	Jul	30	21:11:54	013619	LTU	-0.3366	1.2307	20.2S	99.5E	13	05	272	B. C. E.
109	1 . . .	08993	Jan	26	244	B. C. E.	03:58:28	1632327.6655972	-0244	Jan	26	07:39:31	013265	LTU	0.3187	1.2363	20.0N	55.3W	14	11	244	B. C. E.
	. 2 . .	08994	Jul	21	244	B. C. E.	14:37:15	1632504.1092011	-0244	Jul	21	18:18:14	013258	LTU	-0.3125	1.3100	21.9S	141.3E	13	05	244	B. C. E.
	. 3 . .	08995	Jan	15	243	B. C. E.	04:05:16	1632681.6703199	-0243	Jan	15	07:46:08	013252	LTU	-0.3805	1.1099	21.6N	58.0W	14	11	243	B. C. E.
	. . 4	08996	Jul	11	243	B. C. E.	07:39:54	1632858.8193763	-0243	Jul	11	11:20:39	013246	LTU	0.4183	1.1146	22.6S	115.0W	14	04	243	B. C. E.
110	1 . . .	09034	Feb	06	226	B. C. E.	11:46:11	1638912.9904013	-0226	Feb	06	15:23:27	013038	LTU	0.3463	1.1859	17.1N	171.9W	14	11	226	B. C. E.
	. 2 . .	09035	Aug	01	226	B. C. E.	22:23:10	1639089.4327596	-0226	Aug	02	02:00:22	013031	LTU	-0.3721	1.2001	19.8S	25.1E	14	05	226	B. C. E.
	. 3 . .	09036	Jan	26	225	B. C. E.	11:50:43	1639266.9935494	-0225	Jan	26	15:27:49	013026	LTU	-0.3591	1.1506	19.5N	173.6W	13	11	225	B. C. E.
	. . 4	09037	Jul	21	225	B. C. E.	15:16:55	1639444.1367520	-0225	Jul	21	18:53:54	013020	LTU	0.3539	1.2309	21.2S	131.2E	14	05	225	B. C. E.
111	1 . . .	09076	Feb	16	208	B. C. E.	19:23:59	1645498.3083207	-0208	Feb	16	22:57:33	012816	LTU	0.3815	1.1217	13.7N	73.6E	15	12	208	B. C. E.
	. 2 . .	09077	Aug	12	208	B. C. E.	06:16:37	1645674.7615378	-0208	Aug	12	09:50:07	012810	LTU	-0.4256	1.1009	16.9S	93.2W	13	05	208	B. C. E.
	. 3 . .	09078	Feb	05	207	B. C. E.	19:26:38	1645852.3101666	-0207	Feb	05	23:00:03	012804	LTU	-0.3298	1.2062	16.6N	72.7E	14	11	207	B. C. E.
	. . 4	09079	Aug	01	207	B. C. E.	22:59:15	1646029.4578145	-0207	Aug	02	02:32:32	012798	LTU	0.2944	1.3381	19.0S	15.8E	14	05	207	B. C. E.
112	1 . . .	09118	Feb	28	190	B. C. E.	02:51:22	1652083.6190077	-0190	Feb	28	06:21:20	012599	LTU	0.4245	1.0435	9.8N	38.7W	14	12	190	B. C. E.
	. 2 . .	09119	Aug	23	190	B. C. E.	14:17:47	1652260.0956857	-0190	Aug	23	17:47:41	012593	LTU	-0.4729	1.0132	13.5S	146.2E	13	06	190	B. C. E.
	. 3 . .	09120	Feb	17	189	B. C. E.	02:54:47	1652437.6213793	-0189	Feb	17	06:24:34	012587	LTU	-0.2939	1.2739	13.2N	39.4W	14	12	189	B. C. E.
	. . 4	09121	Aug	12	189	B. C. E.	06:47:43	1652614.7831383	-0189	Aug	12	10:17:23	012581	LTU	0.2405	1.4348	16.2S	101.3W	14	05	189	B. C. E.
113	1 . . .	09168	Dec	27	169	B. C. E.	01:49:19	1660056.5759170	-0169	Dec	27	05:15:00	012341	LTU	0.4277	1.0876	24.1N	26.0W	14	10	169	B. C. E.
	. 2 . .	09169	Jun	21	168	B. C. E.	18:37:03	1660233.2757263	-0168	Jun	21	22:02:39	012335	LTU	-0.3154	1.2519	23.9S	79.8E	14	04	168	B. C. E.
	. 3 . .	09170	Dec	16	168	B. C. E.	16:19:14	1660411.1800227	-0168	Dec	16	19:44:41	012329	LTU	-0.2492	1.3986	23.2N	115.2E	15	10	168	B. C. E.
	. . 4	09171	Jun	11	167	B. C. E.	00:39:19	1660587.5273022	-0167	Jun	11	04:04:44	012323	LTU	0.4645	1.0034	22.4S	11.3W	13	03	167	B. C. E.
114	1 . . .	09210	Jan	07	150	B. C. E.	10:39:07	1666641.9438347	-0150	Jan	07	14:01:18	012131	LTU	0.4353	1.0742	23.4N	157.1W	14	10	150	B. C. E.
	. 2 . .	09211	Jul	03	150	B. C. E.	01:14:46	1666818.5519253	-0150	Jul	03	04:36:54	012126	LTU	-0.3965	1.1032	23.9S	19.0W	13	04	150	B. C. E.
	. 3 . .	09212	Dec	28	150	B. C. E.	01:01:44	1666996.5428677	-0150	Dec	28	04:23:43	012121	LTU	-0.2457	1.4043	23.4N	14.1W	15	10	150	B. C. E.
	. . 4	09213	Jun	21	149	B. C. E.	07:42:22	1667172.8210890	-0149	Jun	21	11:04:19	012115	LTU	0.3857	1.1494	23.3S	116.6W	13	04	149	B. C. E.
115	1 . . .	09985	Apr	17	162	C. E.	00:37:29	1780334.5260325	0162	Apr	17	03:06:48	008958	LTU	0.2890	1.3534	9.6S	9.6W	14	01	162	C. E.
	. 2 . .	09986	Oct	11	162	C. E.	00:12:11	1780511.5084575	0162	Oct	11	02:41:24	008953	LTU	-0.2882	1.2804	6.4N	5.8W	14	07	162	C. E.
	. 3 . .	09987	Apr	06	163	C. E.	17:35:59	1780689.2333237	0163	Apr	06	20:05:06	008948	LTU	-0.4389	1.0752	6.4S	96.3E	15	01	163	C. E.
	. . 4	09988	Sep	30	163	C. E.	01:16:26	1780865.5530745	0163	Sep	30	03:45:32	008945	LTU	0.4185	1.0591	2.5N	21.5W	13	07	163	C. E.
116	1 . . .	10029	Apr	27	180	C. E.	08:15:37	1786919.8441774	0180	Apr	27	10:42:05	008778	LTU	0.3548	1.2342	13.3S	124.8W	13	02	180	C. E.
	. 2 . .	10030	Oct	21	180	C. E.	07:59:28	1787096.8329625	0180	Oct	21	10:25:51	008783	LTU	-0.3086	1.2419	10.5N	123.1W	13	08	180	C. E.
	. 3 . .	10031	Apr	17	181	C. E.	01:17:34	1787274.5538709	0181	Apr	17	03:43:52	008778	LTU	-0.3775	1.1880	10.4S	20.0W	14	01	181	C. E.
	. . 4	10032	Oct	10	181	C. E.	09:12:21	1787450.8835759	0181	Oct	10	11:38:36	008773	LTU	0.3930	1.1058	6.8N	141.1W	13	07	181	C. E.
117	1 . . .	10071	May	08	198	C. E.	15:49:45	1793505.1595461	0198	May	08	18:13:21	008616	LTU	0.4243	1.1077	16.5S	121.2E	13	02	198	C. E.
	. 2 . .	10072	Nov	01	198	C. E.	15:53:07	1793682.1618822	0198	Nov	01	18:16:38	008611	LTU	-0.3240	1.2130	14.3N	118.4E	14	08	198	C. E.
	. 3 . .	10073	Apr	28	199	C. E.	08:53:15	1793859.8703092	0199	Apr	28	11:16:41	008607	LTU	-0.3116	1.3090	14.0N	134.6W	14	02	199	C. E.
	. . 4	10074	Oct	21	199	C. E.	17:17:30	1794036.2204823	0199	Oct	21	19:40:55	008603	LTU	0.3745	1.1399	11.0N	97.1E	13	08	199	C. E.
118	1 . . .	10138	Apr	19	227	C. E.	03:52:05	1804077.6611744	0227	Apr	19	06:11:04	008341	LTU	-0.3454	1.2134	11.0S	58.6W	15	02	227	C. E.
	. 2 . .	10139	Oct	12	227	C. E.	08:56:54	1804253.8728451	0227	Oct	12	11:15:52	008337	LTU	0.3446	1.2419	7.6N	137.3W	13	08	227	C. E.</

7000 Year Canon of Total Lunar Eclipse Tetrads

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time (TDT) of Maximum Eclipse		Lunar Eclipse Type	Delta T (seconds)	Gamma	Umb. Mag.	Greatest in Zenith Lon.		Hebrew Date on the Creation Calendar				
			Year	Month	Day	Time (UT)	Year	Month					Day	Time (UT)	Year	Month	Day	Time (UT)	Year
127	1	10506	Jan 17	390	C.E.	16:02:32	1863522.1684317	0390	Jan 17	17:55:19	006766	LTU	0.3890	1.1576	21.0N	123.1E	14 11	390	C.E.
	2	10507	Jul 13	390	C.E.	18:37:36	1863699.2761127	0390	Jul 13	20:30:17	006761	LTU	-0.3314	1.2140	22.3S	81.3E	14 04	390	C.E.
	3	10508	Jan 07	391	C.E.	07:52:33	1863876.8281545	0391	Jan 07	09:45:08	006756	LTU	-0.2843	1.3490	22.1N	115.6W	14 10	391	C.E.
	4	10509	Jul 02	391	C.E.	20:15:03	1864053.3437839	0391	Jul 02	22:07:36	006751	LTU	0.4318	1.0435	22.9S	56.3E	13 04	391	C.E.
128	1	10547	Jan 29	408	C.E.	00:42:01	1870107.5291757	0408	Jan 29	02:31:49	006588	LTU	0.4031	1.1335	18.3N	6.2W	14 11	408	C.E.
	2	10548	Jul 24	408	C.E.	01:13:01	1870284.5507094	0408	Jul 24	03:02:45	006583	LTU	-0.4105	1.0680	20.4S	17.2W	14 05	408	C.E.
	3	10549	Jan 17	409	C.E.	16:37:48	1870462.1929191	0409	Jan 17	18:27:25	006578	LTU	-0.2747	1.3669	20.2N	114.1E	15 11	409	C.E.
	4	10550	Jul 13	409	C.E.	03:02:46	1870638.6269180	0409	Jul 13	04:52:21	006574	LTU	0.3526	1.1896	21.7S	45.2W	13 04	409	C.E.
129	1	10615	Jan 08	437	C.E.	11:46:17	1880679.9904728	0437	Jan 08	13:31:16	006301	LTU	-0.4386	1.0336	21.7N	173.8W	14 11	437	C.E.
	2	10616	Jul 03	437	C.E.	18:07:29	1880856.2551922	0437	Jul 03	19:52:26	006296	LTU	0.3327	1.2622	22.8S	88.4E	13 04	437	C.E.
	3	10617	Dec 28	437	C.E.	15:55:39	1881034.1636483	0437	Dec 28	17:40:30	006292	LTU	0.2628	1.3299	23.6N	122.7E	15 10	437	C.E.
	4	10618	Jun 23	438	C.E.	10:19:22	1881210.9301147	0438	Jun 23	12:04:09	006287	LTU	-0.4150	1.2519	24.1S	155.2W	13 04	438	C.E.
130	1	10659	Jan 19	455	C.E.	20:08:58	1887265.3395576	0455	Jan 19	21:51:00	006124	LTU	-0.4502	1.0119	19.6N	61.4E	15 11	455	C.E.
	2	10660	Jul 15	455	C.E.	01:32:01	1887441.5638999	0455	Jul 15	03:14:01	006119	LTU	0.4024	1.1351	21.4S	22.3W	13 05	455	C.E.
	3	10661	Jan 09	456	C.E.	00:00:03	1887619.5000353	0456	Jan 09	01:41:56	006114	LTU	0.2532	1.3474	22.4N	2.8E	14 11	456	C.E.
	4	10662	Jul 03	456	C.E.	17:51:43	1887796.2442460	0456	Jul 03	19:33:32	006109	LTU	-0.3427	1.2582	23.4S	92.3E	14 04	456	C.E.
131	1	11444	Apr 29	766	C.E.	13:32:40	2000958.0643469	0766	Apr 29	14:26:15	003217	LTU	-0.3177	1.2862	15.8S	155.6E	14 02	766	C.E.
	2	11445	Oct 22	766	C.E.	17:47:32	2001134.2413421	0766	Oct 22	18:41:07	003213	LTU	0.3178	1.2622	12.9N	89.4E	13 08	766	C.E.
	3	11446	Apr 18	767	C.E.	23:39:06	2001312.4854911	0767	Apr 18	00:32:34	003209	LTU	0.4582	1.0002	11.7S	4.7E	15 02	767	C.E.
	4	11447	Oct 12	767	C.E.	06:04:40	2001488.7532444	0767	Oct 12	06:58:05	003204	LTU	-0.3912	1.1515	8.3N	94.4W	13 08	767	C.E.
132	1	11487	May 09	784	C.E.	20:55:30	2007543.3718706	0784	May 09	21:46:34	003066	LTU	-0.3885	1.1557	18.9S	44.6E	15 02	784	C.E.
	2	11488	Nov 02	784	C.E.	02:10:53	2007719.5908960	0784	Nov 02	03:01:58	003062	LTU	0.3291	1.2398	16.5N	36.5W	13 08	784	C.E.
	3	11489	Jan 29	785	C.E.	06:40:43	2007897.7782776	0785	Jan 29	07:31:39	003058	LTU	0.3892	1.2634	15.2S	101.3W	14 02	785	C.E.
	4	11490	Oct 22	785	C.E.	14:38:22	2008074.1099783	0785	Oct 22	15:29:17	003054	LTU	-0.3732	1.1842	12.3N	136.8E	13 08	785	C.E.
133	1	11512	Apr 09	795	C.E.	04:45:42	2011529.6983994	0795	Apr 09	05:35:19	002977	LTU	0.3222	1.2279	8.5N	92.4W	14 01	795	C.E.
	2	11513	Oct 03	795	C.E.	05:58:34	2011706.7490033	0795	Oct 03	06:48:06	002973	LTU	-0.2895	1.3424	5.0N	71.3W	14 07	795	C.E.
	3	11514	Mar 28	796	C.E.	05:58:44	2011883.7491154	0796	Mar 28	06:48:15	002970	LTU	-0.4225	1.0550	4.9S	88.9W	13 01	796	C.E.
	4	11515	Sep 21	796	C.E.	19:32:36	2012061.3143106	0796	Sep 21	20:21:59	002965	LTU	0.4304	1.0634	1.4N	64.5E	15 07	796	C.E.
134	1	11529	May 21	802	C.E.	04:12:19	2014128.6752233	0802	May 21	05:00:57	002919	LTU	-0.4635	1.0170	21.3S	64.5W	15 03	802	C.E.
	2	11530	Nov 13	802	C.E.	10:40:23	2014304.9447052	0802	Nov 13	11:29:00	002915	LTU	0.3360	1.2279	19.5N	163.4W	12 09	802	C.E.
	3	11531	May 10	803	C.E.	13:33:46	2014483.0651168	0803	May 10	14:22:15	002911	LTU	0.3139	1.2637	18.2S	155.2E	14 02	803	C.E.
	4	11532	Nov 02	803	C.E.	23:19:22	2014659.4717787	0803	Nov 02	00:07:50	002907	LTU	-0.3609	1.2066	15.9N	6.6E	13 08	803	C.E.
135	1	11554	Jan 19	813	C.E.	11:30:34	2018114.9795633	0813	Jan 19	12:17:47	002832	LTU	0.3939	1.0977	12.2S	173.2W	14 02	813	C.E.
	2	11555	Oct 13	813	C.E.	14:26:20	2018292.1016250	0813	Oct 13	15:13:27	002828	LTU	-0.3132	1.2967	9.2N	140.1E	13 08	813	C.E.
	3	11556	Apr 08	814	C.E.	13:04:39	2018469.0449014	0814	Apr 08	13:51:45	002824	LTU	-0.3590	1.1744	8.9S	163.7E	13 01	814	C.E.
	4	11557	Oct 03	814	C.E.	03:35:58	2018646.6499771	0814	Oct 03	04:22:56	002820	LTU	0.4010	1.1144	5.7N	57.1W	14 07	814	C.E.
136	1	11578	Mar 18	824	C.E.	19:53:08	2022101.3285641	0824	Mar 18	20:38:54	002745	LTU	-0.2882	1.3363	1.3S	63.4E	13 01	824	C.E.
	2	11579	Sep 12	824	C.E.	05:53:25	2022278.7454232	0824	Sep 12	06:39:04	002741	LTU	0.3125	1.2469	2.4S	89.8W	14 07	824	C.E.
	3	11580	Mar 08	825	C.E.	11:09:45	2022455.9651050	0825	Mar 08	11:55:22	002737	LTU	0.4275	1.0949	3.6N	164.7W	13 13	825	C.E.
	4	11581	Sep 01	825	C.E.	05:52:10	2022632.7445618	0825	Sep 01	06:37:45	002734	LTU	-0.4126	1.0605	7.3S	88.5W	13 06	825	C.E.
137	1	11619	Mar 30	842	C.E.	03:40:23	2028686.6530414	0842	Mar 30	04:23:51	002607	LTU	-0.3366	1.2502	5.6S	54.4W	13 01	842	C.E.
	2	11620	Sep 23	842	C.E.	13:17:31	2028864.0538317	0842	Sep 23	14:00:53	002603	LTU	0.3545	1.1672	2.0N	158.3E	14 07	842	C.E.
	3	11621	Jan 19	843	C.E.	19:17:01	2029041.3034845	0843	Jan 19	20:00:20	002599	LTU	0.3859	1.1729	0.8S	72.6E	14 01	843	C.E.
	4	11622	Sep 12	843	C.E.	13:03:22	2029218.0440070	0843	Sep 12	13:46:38	002595	LTU	-0.3618	1.1526	3.1S	162.9E	13 07	843	C.E.
138	1	11660	Apr 09	860	C.E.	11:22:37	2035271.9740403	0860	Apr 09	12:03:50	002471	LTU	-0.3898	1.1554	9.7S	170.8W	13 01	860	C.E.
	2	11661	Oct 03	860	C.E.	20:48:43	2035449.3671612	0860	Oct 03	21:29:49	002467	LTU	0.3902	1.0992	6.3N	44.7E	14 07	860	C.E.
	3	11662	Mar 30	861	C.E.	03:17:25	2035626.6370906	0861	Mar 30	03:58:29	002464	LTU	0.3384	1.2617	5.0S	48.5W	14 01	861	C.E.
	4	11663	Sep 22	861	C.E.	20:24:00	2035803.3500056	0861	Sep 22	21:05:01	002460	LTU	-0.3184	1.2312	1.3N	51.8E	14 07	861	C.E.
139	1	11701	Feb 20	878	C.E.	18:57:28	2041857.2899910	0878	Feb 20	19:36:28	002339	LTU	-0.4498	1.0478	13.5S	74.7E	14 02	878	C.E.
	2	11702	Oct 15	878	C.E.	04:28:51	2042034.6867036	0878	Oct 15	05:07:45	002335	LTU	0.4180	1.0459	10.5N	70.9W	14 08	878	C.E.
	3	11703	Apr 10	879	C.E.	11:10:47	2042211.9658205	0879	Apr 10	11:49:39	002332	LTU	0.2849	1.3611	9.2S	167.7W	13 01	879	C.E.
	4	11704	Oct 04	879	C.E.	03:54:18	2042388.6627070	0879	Oct 04	04:33:07	002328	LTU	-0.2824	1.2963	5.6N	61.5W	13 07	879	C.E.
140	1	11726	Mar 21	889	C.E.	02:46:41	2045844.6157526	0889	Mar 21	03:24:20	002261	LTU	0.3201	1.2779	1.7S	40.0W	15 01	889	C.E.
	2	11727	Sep 13	889	C.E.	04:41:18	2046020.6953454	0889	Sep 13	05:18:56	002257	LTU	-0.4437	1.0341	2.5S	71.6W	13 07	889	C.E.
	3	11728	Mar 10	890	C.E.	12:41:05	2046199.0285284	0890	Mar 10	13:18:37	002254	LTU	-0.4314	1.0448	1.9N	172.0E	14 13	890	C.E.
	4	11729	Sep 02	890															

7000 Year Canon of Total Lunar Eclipse Tetrads

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		Date and Time (TDT) of Maximum Eclipse		Delta T (seconds)	Lunar Eclipse Type	Gamma	Umb. Mag.	Greatest in Zenith Lon.		Hebrew Date on the Creation Calendar					
			Day	Month	Year	Time (UT)	Day	Month					Year	Day	Month	Year	Day	Month	Year	
148	1	12749	May 09	1305	C. E.	19:08:30	2197838.2975719	1305	May 09	19:16:26	000476	LTU	-0.3054	1.3236	19.7S	71.6E	15	02	1305	C. E.
	2	12750	Nov 02	1305	C. E.	06:47:12	2198014.7827755	1305	Nov 02	06:55:09	000475	LTU	0.2772	1.3119	17.4N	105.6W	13	08	1305	C. E.
	3	12751	Apr 29	1306	C. E.	10:05:27	2198192.9204519	1306	Apr 29	10:13:20	000474	LTU	0.4499	1.0381	16.3S	152.4W	14	02	1306	C. E.
	4	12752	Oct 22	1306	C. E.	13:27:30	2198369.0607588	1306	Oct 22	13:35:24	000473	LTU	-0.4370	1.0478	13.4N	154.3E	12	08	1306	C. E.
149	1	12792	May 21	1323	C. E.	02:40:36	2204423.6115245	1323	May 21	02:47:57	000442	LTU	-0.3752	1.1956	21.9S	41.2W	14	03	1323	C. E.
	2	12793	Nov 13	1323	C. E.	14:52:03	2204600.1194747	1323	Nov 13	14:59:25	000441	LTU	0.2897	1.2893	20.2N	133.7E	14	09	1323	C. E.
	3	12794	May 09	1324	C. E.	17:24:03	2204778.2250296	1324	May 09	17:31:21	000440	LTU	0.3824	1.1614	19.1S	97.8E	15	03	1324	C. E.
	4	12795	Nov 01	1324	C. E.	21:50:02	2204954.4097462	1324	Nov 01	21:57:23	000439	LTU	-0.4206	1.0783	16.8N	28.8E	13	09	1324	C. E.
150	1	12834	May 31	1341	C. E.	10:08:32	2211008.9225886	1341	May 31	10:15:20	000409	LTU	-0.4481	1.0615	23.4S	152.7W	14	03	1341	C. E.
	2	12835	Nov 23	1341	C. E.	23:02:49	2211185.4602856	1341	Nov 23	23:09:40	000409	LTU	0.2979	1.2747	22.3N	11.9E	13	09	1341	C. E.
	3	12836	May 21	1342	C. E.	00:37:47	2211363.5262371	1342	May 21	00:44:33	000408	LTU	0.3115	1.2905	21.3S	10.4W	15	03	1342	C. E.
	4	12837	Nov 13	1342	C. E.	06:19:37	2211539.7636203	1342	Nov 13	06:26:26	000407	LTU	-0.4092	1.0997	19.6N	98.1W	13	09	1342	C. E.
151	1	12860	Apr 30	1352	C. E.	04:52:47	2214995.7033218	1352	Apr 30	04:59:16	000391	LTU	0.3309	1.2208	16.9S	74.2W	14	02	1352	C. E.
	2	12861	Oct 23	1352	C. E.	19:18:54	2215172.3047955	1352	Oct 23	19:25:25	000390	LTU	-0.2764	1.3679	14.2N	66.5E	14	08	1352	C. E.
	3	12862	Apr 19	1353	C. E.	05:25:21	2215349.7259403	1353	Apr 19	05:31:51	000389	LTU	-0.4202	1.0498	14.2S	82.3W	14	02	1353	C. E.
	4	12863	Oct 13	1353	C. E.	11:07:33	2215526.9635743	1353	Oct 13	11:14:00	000388	LTU	0.4110	1.1149	11.2N	170.8W	14	08	1353	C. E.
152	1	12901	May 11	1370	C. E.	11:35:10	2221580.9827564	1370	May 11	11:41:11	000362	LTU	0.4087	1.0779	19.5S	174.8W	14	03	1370	C. E.
	2	12902	Nov 04	1370	C. E.	03:57:21	2221757.6648236	1370	Nov 04	04:03:23	000362	LTU	-0.2920	1.2747	22.3N	11.9E	13	09	1370	C. E.
	3	12903	Apr 30	1371	C. E.	12:06:53	2221935.0047755	1371	Apr 30	12:12:54	000361	LTU	-0.3458	1.1879	17.4S	177.1E	13	02	1371	C. E.
	4	12904	Oct 24	1371	C. E.	19:34:22	2222112.3155300	1371	Oct 24	19:40:21	000360	LTU	0.3911	1.1490	15.0N	62.3E	14	08	1371	C. E.
153	1	12966	Apr 20	1399	C. E.	19:47:21	2232152.3245524	1399	Apr 20	19:52:42	000319	LTU	-0.4016	1.1129	14.7S	62.3E	13	02	1399	C. E.
	2	12967	Oct 15	1399	C. E.	12:11:09	2232330.0077413	1399	Oct 15	12:16:25	000318	LTU	0.3135	1.2572	11.8N	173.3E	14	08	1399	C. E.
	3	12968	Apr 09	1400	C. E.	08:01:26	2232506.8343263	1400	Apr 09	08:06:44	000317	LTU	0.3563	1.2202	10.4S	120.5W	13	02	1400	C. E.
	4	12969	Oct 03	1400	C. E.	14:33:11	2232684.1063774	1400	Oct 03	14:38:27	000317	LTU	-0.4072	1.0665	7.1N	138.5E	13	08	1400	C. E.
154	1	13033	Mar 31	1428	C. E.	08:16:29	2242724.8447787	1428	Mar 31	08:21:07	000279	LTU	0.3012	1.3275	7.3S	123.6W	14	01	1428	C. E.
	2	13034	Sep 23	1428	C. E.	17:25:09	2242901.2257950	1428	Sep 23	17:29:48	000278	LTU	-0.4230	1.0495	3.4N	96.2E	13	07	1428	C. E.
	3	13035	Mar 20	1429	C. E.	22:57:25	2243079.4565372	1429	Mar 20	23:02:01	000278	LTU	-0.4313	1.0683	3.9S	16.7E	15	01	1429	C. E.
	4	13036	Sep 13	1429	C. E.	00:25:48	2243255.5179110	1429	Sep 13	00:30:26	000277	LTU	0.3251	1.2579	0.3S	8.4W	13	07	1429	C. E.
155	1	13099	Mar 11	1457	C. E.	10:53:42	2253296.9539579	1457	Mar 11	10:57:44	000243	LTU	-0.2944	1.2825	0.2S	161.6W	14	01	1457	C. E.
	2	13100	Sep 03	1457	C. E.	22:04:11	2253473.4195728	1457	Sep 03	22:08:15	000243	LTU	0.3420	1.2536	3.7S	27.8E	14	07	1457	C. E.
	3	13101	Feb 28	1458	C. E.	11:00:44	2253650.9588427	1458	Feb 28	11:04:46	000242	LTU	0.4229	1.0365	4.9N	162.3W	13	03	1458	C. E.
	4	13102	Aug 24	1458	C. E.	14:39:40	2253828.1108821	1458	Aug 24	14:43:41	000242	LTU	-0.3737	1.1914	8.4S	140.0E	14	06	1458	C. E.
156	1	13140	Mar 22	1475	C. E.	18:14:50	2259882.2603024	1475	Mar 22	18:18:31	000222	LTU	-0.3412	1.1971	4.5S	87.3E	15	01	1475	C. E.
	2	13141	Sep 15	1475	C. E.	06:07:56	2260058.7555077	1475	Sep 15	06:11:38	000222	LTU	0.3854	1.1728	0.6N	94.1W	13	07	1475	C. E.
	3	13142	Nov 10	1476	C. E.	18:21:25	2260236.2648769	1476	Nov 10	18:25:07	000221	LTU	0.3817	1.1140	0.5N	86.7E	14	01	1476	C. E.
	4	13143	Sep 03	1476	C. E.	22:31:11	2260413.4383269	1476	Sep 03	22:34:51	000221	LTU	-0.3243	1.2797	4.2S	21.2E	14	07	1476	C. E.
157	1	13180	Apr 02	1493	C. E.	01:25:06	2266467.5590969	1493	Apr 02	01:28:27	000202	LTU	-0.3963	1.0965	8.7S	21.1W	14	01	1493	C. E.
	2	13181	Sep 25	1493	C. E.	14:19:33	2266644.0969109	1493	Sep 25	14:22:55	000202	LTU	0.4226	1.1035	5.0N	142.1E	13	07	1493	C. E.
	3	13182	Mar 22	1494	C. E.	01:33:50	2266821.5651586	1494	Mar 22	01:37:11	000201	LTU	0.3335	1.2047	3.8S	22.3W	14	01	1494	C. E.
	4	13183	Sep 15	1494	C. E.	06:28:58	2266998.7701205	1494	Sep 15	06:32:18	000201	LTU	-0.2805	1.3576	0.1N	99.2W	14	07	1494	C. E.
158	1	13204	Mar 01	1504	C. E.	00:41:30	2270453.5288192	1504	Mar 01	00:44:43	000191	LTU	0.4056	1.0958	4.3N	7.5W	13	13	1504	C. E.
	2	13205	Aug 25	1504	C. E.	16:27:24	2270631.1856925	1504	Aug 25	16:30:33	000191	LTU	-0.3517	1.1969	7.6S	113.0E	15	06	1504	C. E.
	3	13206	Feb 18	1505	C. E.	11:41:47	2270807.9873513	1505	Feb 18	11:44:59	000190	LTU	-0.3241	1.2708	7.8N	172.3W	13	12	1505	C. E.
	4	13207	Aug 14	1505	C. E.	20:02:44	2270985.3352258	1505	Aug 14	20:05:53	000190	LTU	0.4064	1.0767	10.9S	59.6E	14	06	1505	C. E.
159	1	13228	Jan 30	1515	C. E.	02:32:51	2274440.6061426	1515	Jan 30	02:35:50	000180	LTU	-0.3447	1.2413	14.7N	34.5W	14	12	1515	C. E.
	2	13229	Jul 25	1515	C. E.	16:26:51	2274617.1853100	1515	Jul 25	16:29:53	000181	LTU	0.3252	1.2338	17.3S	114.5E	13	05	1515	C. E.
	3	13230	Jan 19	1516	C. E.	16:59:08	2274795.2077320	1516	Jan 19	17:02:06	000180	LTU	0.3438	1.2248	18.5N	108.8E	15	11	1516	C. E.
	4	13231	Jul 13	1516	C. E.	22:55:19	2274971.4550764	1516	Jul 13	22:58:20	000180	LTU	-0.4501	1.0308	20.6S	17.6E	13	05	1516	C. E.
160	1	13245	Mar 12	1522	C. E.	08:29:38	2277038.8539097	1522	Mar 12	08:32:34	000174	LTU	0.4404	1.0352	0.0N	125.3W	13	01	1522	C. E.
	2	13246	Sep 05	1522	C. E.	23:47:40	2277216.4914338	1522	Sep 05	23:50:32	000174	LTU	-0.4088	1.0889	3.5S	2.0E	15	07	1522	C. E.
	3	13247	Mar 01	1523	C. E.	19:59:02	2277393.3326608	1523	Mar 01	20:01:56	000173	LTU	-0.2962	1.3244	3.6N	62.8E	14	13	1523	C. E.
	4	13248	Aug 26	1523	C. E.	02:54:03	2277570.6208703	1523	Aug 26	02:56:55	000173	LTU	0.3396	1.1971	7.1S	44.0W	14	06	1523	C. E.
161	1	13269	Feb 09	1533	C. E.	11:11:03	2281025.9660053	1533	Feb 09	11:13:46	000164	LTU	-0.3601	1.2137	11.0N	164.2W	14	12	1533	C. E.
	2																			

7000 Year Canon of Total Lunar Eclipse Tetrads

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse		Astronomical Julian Date (UT)		(TDT) Date and Time of Maximum Eclipse		Lunar Eclipse Type	Delta T (seconds)	Lunar Eclipse Gamma	Umb. Mag.	Greatest in Zenith Lon.		Hebrew Date on the Creation Calendar Day Month Year	
			Date	Time	Date	Time	Date	Time					Lat.	Lon.	Day	Month
169	1 . . .	14420	May 16 2003	C. E. 03: 40: 09	2452775.	6528837	2003 May 16	03: 41: 14	000064	LTU	0. 4123	1. 1278	18. 6S	55. 8W	14 02	2003 C. E.
	2 . . .	14421	Nov 09 2003	C. E. 01: 18: 33	2452952.	5545475	2003 Nov 09	01: 19: 39	000065	LTU	-0. 4319	1. 0180	16. 3N	23. 5W	14 08	2003 C. E.
	3 . . .	14422	May 04 2004	C. E. 20: 30: 12	2453130.	3543081	2004 May 04	20: 31: 16	000065	LTU	-0. 3132	1. 3036	16. 5S	51. 5E	15 02	2004 C. E.
	4 . . .	14423	Oct 28 2004	C. E. 03: 04: 06	2453306.	6278475	2004 Oct 28	03: 05: 13	000065	LTU	0. 2847	1. 3082	13. 4N	50. 2W	13 08	2004 C. E.
170	1 . . .	14445	Apr 15 2014	C. E. 07: 45: 39	2456762.	8233666	2014 Apr 15	07: 46: 45	000069	LTU	-0. 3017	1. 2908	10. 0S	116. 5W	15 01	2014 C. E.
	2 . . .	14446	Oct 08 2014	C. E. 10: 54: 35	2456938.	9545695	2014 Oct 08	10: 55: 45	000069	LTU	0. 3826	1. 1660	6. 3N	166. 9W	13 07	2014 C. E.
	3 . . .	14447	Apr 04 2015	C. E. 12: 00: 15	2457117.	0001689	2015 Apr 04	12: 01: 23	000069	LTU	0. 4460	1. 0009	5. 3S	179. 2W	14 01	2015 C. E.
	4 . . .	14448	Sep 28 2015	C. E. 02: 47: 08	2457293.	6160642	2015 Sep 28	02: 48: 17	000069	LTU	-0. 3296	1. 2765	1. 5N	44. 0W	13 07	2015 C. E.
171	1 . . .	14486	Apr 25 2032	C. E. 15: 13: 31	2463348.	1343902	2032 Apr 25	15: 14: 48	000079	LTU	-0. 3557	1. 1915	13. 8S	131. 0E	14 02	2032 C. E.
	2 . . .	14487	Oct 18 2032	C. E. 19: 02: 21	2463524.	2933019	2032 Oct 18	19: 03: 41	000079	LTU	0. 4169	1. 1029	10. 4N	70. 5E	13 08	2032 C. E.
	3 . . .	14488	Apr 14 2033	C. E. 19: 12: 31	2463702.	3003623	2033 Apr 14	19: 13: 50	000080	LTU	0. 3954	1. 0945	9. 4S	72. 0E	15 01	2033 C. E.
	4 . . .	14489	Oct 08 2033	C. E. 10: 55: 03	2463878.	9548956	2033 Oct 08	10: 56: 23	000080	LTU	-0. 2889	1. 3498	5. 8N	166. 8W	13 07	2033 C. E.
172	1 . . .	14510	Mar 25 2043	C. E. 14: 30: 36	2467334.	1045845	2043 Mar 25	14: 32: 05	000087	LTU	0. 3849	1. 1143	1. 6S	144. 0E	13 01	2043 C. E.
	2 . . .	14511	Sep 19 2043	C. E. 01: 50: 22	2467511.	5766404	2043 Sep 19	01: 51: 48	000088	LTU	-0. 3316	1. 2557	1. 9S	28. 9W	14 07	2043 C. E.
	3 . . .	14512	Mar 13 2044	C. E. 19: 37: 04	2467688.	3174079	2044 Mar 13	19: 38: 34	000088	LTU	-0. 3496	1. 2032	2. 1N	67. 9E	13 13	2044 C. E.
	4 . . .	14513	Sep 07 2044	C. E. 11: 19: 16	2467865.	9717166	2044 Sep 07	11: 20: 43	000088	LTU	0. 4318	1. 0457	5. 4S	170. 6W	14 06	2044 C. E.
173	1 . . .	14526	May 06 2050	C. E. 22: 30: 28	2469933.	4378205	2050 May 06	22: 32: 00	000094	LTU	-0. 4180	1. 0769	17. 2S	21. 5E	15 02	2050 C. E.
	2 . . .	14527	Oct 30 2050	C. E. 03: 20: 12	2470109.	6390251	2050 Oct 30	03: 21: 48	000095	LTU	0. 4435	1. 0539	14. 2S	54. 2W	13 08	2050 C. E.
	3 . . .	14528	Apr 26 2051	C. E. 02: 14: 52	2470287.	5936529	2051 Apr 26	02: 16: 27	000096	LTU	0. 3371	1. 2023	13. 2S	34. 2W	14 02	2051 C. E.
	4 . . .	14529	Oct 19 2051	C. E. 19: 10: 13	2470464.	2987589	2051 Oct 19	19: 11: 50	000097	LTU	-0. 2542	1. 4119	9. 9N	68. 7E	14 08	2051 C. E.
174	1 . . .	14551	Apr 04 2061	C. E. 21: 52: 08	2473919.	4112093	2061 Apr 04	21: 54: 06	000116	LTU	0. 4300	1. 0342	5. 8S	32. 8E	14 01	2061 C. E.
	2 . . .	14552	Sep 29 2061	C. E. 09: 36: 16	2474096.	9001834	2061 Sep 29	09: 38: 11	000117	LTU	-0. 3810	1. 1622	2. 4N	146. 3W	14 07	2061 C. E.
	3 . . .	14553	Mar 25 2062	C. E. 03: 31: 52	2474273.	6471335	2062 Mar 25	03: 33: 52	000118	LTU	-0. 3150	1. 2696	2. 2S	51. 6W	13 01	2062 C. E.
	4 . . .	14554	Sep 18 2062	C. E. 18: 32: 03	2474451.	2722561	2062 Sep 18	18: 34: 00	000119	LTU	0. 3736	1. 1497	1. 2S	80. 3E	15 07	2062 C. E.
175	1 . . .	14575	Mar 04 2072	C. E. 15: 20: 47	2477906.	1394329	2072 Mar 04	15: 23: 08	000140	LTU	-0. 3430	1. 2442	5. 6N	132. 6E	13 12	2072 C. E.
	2 . . .	14576	Aug 28 2072	C. E. 16: 03: 21	2478083.	1668948	2072 Aug 28	16: 05: 42	000141	LTU	0. 3563	1. 1683	8. 9S	119. 3E	13 06	2072 C. E.
	3 . . .	14577	Feb 22 2073	C. E. 07: 22: 31	2478260.	8073009	2073 Feb 22	07: 24: 52	000142	LTU	0. 3388	1. 2504	10. 3N	107. 2W	14 12	2073 C. E.
	4 . . .	14578	Aug 17 2073	C. E. 17: 40: 18	2478437.	2363203	2073 Aug 17	17: 42: 43	000143	LTU	-0. 3998	1. 1014	13. 4S	96. 0E	13 06	2073 C. E.
176	1 . . .	14616	Mar 15 2090	C. E. 23: 45: 30	2484491.	4899355	2090 Mar 15	23: 48: 31	000180	LTU	-0. 3674	1. 2013	1. 3N	5. 6E	14 13	2090 C. E.
	2 . . .	14617	Sep 08 2090	C. E. 22: 49: 28	2484668.	4510196	2090 Sep 08	22: 52: 29	000181	LTU	0. 4257	1. 0378	4. 8S	16. 9E	14 06	2090 C. E.
	3 . . .	14618	Mar 05 2091	C. E. 15: 55: 20	2484846.	1634294	2091 Mar 05	15: 58: 21	000182	LTU	0. 3212	1. 2832	6. 1N	124. 1E	15 12	2091 C. E.
	4 . . .	14619	Aug 29 2091	C. E. 00: 35: 22	2485022.	5245575	2091 Aug 29	00: 38: 26	000183	LTU	-0. 3271	1. 2352	9. 6S	8. 5W	13 06	2091 C. E.
177	1 . . .	14642	Feb 14 2101	C. E. 02: 46: 35	2488478.	6156786	2101 Feb 14	02: 49: 58	000205	LTU	0. 3584	1. 1826	13. 4N	38. 0W	15 12	2101 C. E.
	2 . . .	14643	Aug 09 2101	C. E. 08: 22: 06	2488654.	8486852	2101 Aug 09	08: 25: 35	000207	LTU	-0. 2864	1. 3460	16. 1S	124. 0W	13 05	2101 C. E.
	3 . . .	14644	Feb 03 2102	C. E. 07: 14: 52	2488832.	8019953	2102 Feb 03	07: 18: 19	000208	LTU	-0. 3514	1. 1687	16. 3N	105. 5W	14 11	2102 C. E.
	4 . . .	14645	Jul 30 2102	C. E. 00: 25: 41	2489009.	5178311	2102 Jul 30	00: 29: 10	000209	LTU	0. 4586	1. 0451	18. 2S	4. 9W	14 05	2102 C. E.
178	1 . . .	14684	Feb 25 2119	C. E. 11: 01: 04	2495063.	9590701	2119 Feb 25	11: 05: 11	000249	LTU	0. 3765	1. 1491	9. 5N	161. 9W	14 12	2119 C. E.
	2 . . .	14685	Aug 20 2119	C. E. 15: 47: 45	2495240.	1581625	2119 Aug 20	15: 51: 57	000250	LTU	-0. 3538	1. 2228	12. 8S	124. 1E	12 06	2119 C. E.
	3 . . .	14686	Feb 14 2120	C. E. 15: 13: 08	2495418.	1341240	2120 Feb 14	15: 17: 18	000251	LTU	-0. 3371	1. 1951	12. 9N	135. 1E	14 12	2120 C. E.
	4 . . .	14687	Aug 09 2120	C. E. 07: 57: 19	2495594.	8314643	2120 Aug 09	08: 01: 32	000253	LTU	0. 3875	1. 1752	15. 4S	118. 1W	13 05	2120 C. E.
179	1 . . .	14727	Mar 07 2137	C. E. 19: 08: 48	2501649.	2977758	2137 Mar 07	19: 13: 41	000295	LTU	0. 3992	1. 1071	5. 3N	75. 7E	15 12	2137 C. E.
	2 . . .	14728	Aug 30 2137	C. E. 23: 19: 09	2501825.	4716277	2137 Aug 30	23: 24: 06	000296	LTU	-0. 4171	1. 1070	9. 0S	10. 6E	13 06	2137 C. E.
	3 . . .	14729	Feb 24 2138	C. E. 23: 04: 58	2502003.	4617875	2138 Feb 24	23: 09: 55	000297	LTU	-0. 3178	1. 2307	9. 0N	16. 9E	15 12	2138 C. E.
	4 . . .	14730	Aug 20 2138	C. E. 15: 33: 47	2502180.	1484637	2138 Aug 20	15: 38: 45	000298	LTU	0. 3204	1. 2978	12. 0S	127. 3E	13 06	2138 C. E.
180	1 . . .	14772	Mar 19 2155	C. E. 03: 07: 06	2508234.	6299253	2155 Mar 19	03: 12: 43	000339	LTU	0. 4293	1. 0518	1. 0N	44. 6W	15 13	2155 C. E.
	2 . . .	14773	Sep 11 2155	C. E. 06: 57: 31	2508410.	7899391	2155 Sep 11	07: 03: 12	000340	LTU	-0. 4752	1. 0004	5. 0S	104. 9W	13 06	2155 C. E.
	3 . . .	14774	Mar 07 2156	C. E. 06: 48: 32	2508588.	7837043	2156 Mar 07	06: 54: 12	000341	LTU	-0. 2922	1. 2784	4. 8N	99. 6W	14 12	2156 C. E.
	4 . . .	14775	Aug 30 2156	C. E. 23: 14: 55	2508765.	4686929	2156 Aug 30	23: 20: 37	000342	LTU	0. 2569	1. 4132	8. 3S	11. 3E	14 06	2156 C. E.
181	1 . . .	15500	Jun 17 2448	C. E. 10: 09: 46	2615341.	9234436	2448 Jun 17	10: 30: 25	001241	LTU	0. 3730	1. 1855	23. 0S	151. 9W	14 04	2448 C. E.
	2 . . .	15501	Dec 10 2448	C. E. 16: 32: 32	2615518.	1892538	2448 Dec 10	16: 53: 17	001243	LTU	-0. 2667	1. 3525	22. 7N	110. 0E	13 10	2448 C. E.
	3 . . .	15502	Jun 06 2449	C. E. 20: 19: 11	2615696.	3466544	2449 Jun 06	20: 39: 54	001245	LTU	-0. 4068	1. 0958	23. 1S	55. 1E	15 03	2449 C. E.
	4 . . .	15503	Nov 30 2449	C. E. 04: 38: 14	2615872.	6932138	2449 Nov 30	04: 59: 02	001247	LTU	0. 4335	1. 0722	22. 1N	72. 7W	13 09	2449 C. E.
182	1 . . .	15543	Jun 28 2466	C. E. 17: 24: 39	2621927.	2254512	2466 Jun 28	17: 46: 32	001314	LTU	0. 4491	1. 0448	22. 7S	100. 0E	15 04	2466 C. E.
	2 . . .	15544	Dec 22 2466	C. E. 00: 59: 40	2622103.	5414352	2466 Dec 22	01: 21: 38	001316	LTU	-0. 2740	1. 3399	23. 1N	15. 5W	13 10	2466 C. E.
	3 . . .	15545	Jun 18 2467	C. E. 03: 09: 34	2622281.	6316448	2467 Jun 18	03: 31: 30	001318	LTU	-0. 3290	1. 2376	23. 7S	46. 9W	15 04	2467 C. E.
	4 . . .	15546	Dec 11 2467	C. E. 13: 17: 48	2622458.	054032										

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Lunar Eclipse Tetrad	Tetrad Sequence Number	7000 Year Canon of Lunar Eclipses Eclipse Number	Calendar Date and Time (UT) of Maximum Eclipse	Astronomical Julian Date (UT)	(TDI) Date and Time of Maximum Eclipse	Delta T (seconds)	Lunar Eclipse Type	Gamma	Umb. Mag.	Greatest in Zenith Lat. Lon.	Hebrew Date on the Creation Calendar Day Month Year	
190	1 . . .	15807	Apr 09 2582 C.E.	07:43:18	2664214.8217330	2582 Apr 09 08:13:52	001834	LTU	0.3337	1.2017	7.5S 115.3W	14 01 2582 C.E.
	2 . . .	15808	Oct 03 2582 C.E.	06:58:18	2664391.7904860	2582 Oct 03 07:28:54	001837	LTU	-0.3243	1.2840	3.9N 107.1W	14 07 2582 C.E.
	3 . . .	15809	Mar 29 2583 C.E.	08:06:53	2664568.8381132	2583 Mar 29 08:37:33	001839	LTU	-0.3849	1.1279	3.7S 120.8W	15 01 2583 C.E.
	4 . . .	15810	Sep 22 2583 C.E.	21:27:17	2664456.3939516	2583 Sep 22 21:57:57	001841	LTU	0.4136	1.1017	0.4N 36.2E	15 07 2583 C.E.
191	1 . . .	15823	May 21 2589 C.E.	07:14:45	26666813.8019070	2589 May 21 07:45:52	001869	LTU	-0.4097	1.1156	20.7S 109.3W	14 03 2589 C.E.
	2 . . .	15824	Nov 13 2589 C.E.	10:34:41	2666989.9407529	2589 Nov 13 11:05:55	001872	LTU	0.4545	1.0118	18.5N 162.8W	12 09 2589 C.E.
	3 . . .	15825	May 10 2590 C.E.	17:05:34	2667168.2122001	2590 May 10 17:36:46	001874	LTU	0.3540	1.1893	17.5S 102.9E	15 02 2590 C.E.
	4 . . .	15826	Nov 02 2590 C.E.	23:08:47	2667344.4644306	2590 Nov 02 23:40:05	001877	LTU	-0.2685	1.3787	14.8N 8.7E	13 08 2590 C.E.
192	1 . . .	15847	Apr 20 2600 C.E.	14:53:30	2670800.1204883	2600 Apr 20 15:25:33	001923	LTU	0.3845	1.1102	11.3S 136.6E	13 02 2600 C.E.
	2 . . .	15848	Oct 14 2600 C.E.	14:59:45	2670977.1248277	2600 Oct 14 15:31:50	001926	LTU	-0.3691	1.1999	7.9N 131.8E	13 08 2600 C.E.
	3 . . .	15849	Apr 09 2601 C.E.	15:38:23	2671154.1516503	2601 Apr 09 16:10:32	001928	LTU	-0.3444	1.1939	7.9S 125.7E	13 01 2601 C.E.
	4 . . .	15850	Oct 04 2601 C.E.	05:03:55	2671331.7110538	2601 Oct 04 05:36:04	001931	LTU	0.3614	1.1944	4.6N 78.9W	14 07 2601 C.E.
193	1 . . .	15871	Mar 20 2611 C.E.	20:41:28	2674786.3621242	2611 Mar 20 21:14:26	001977	LTU	-0.3503	1.2156	0.1S 51.3E	13 01 2611 C.E.
	2 . . .	15872	Sep 14 2611 C.E.	09:04:28	2674963.8781021	2611 Sep 14 09:37:27	001980	LTU	0.3043	1.2686	3.2S 137.1W	14 07 2611 C.E.
	3 . . .	15873	Mar 09 2612 C.E.	11:12:42	2675140.9671521	2612 Mar 09 11:45:44	001982	LTU	0.3508	1.2310	4.8N 165.6W	13 13 2612 C.E.
	4 . . .	15874	Sep 02 2612 C.E.	09:39:23	2675317.9023525	2612 Sep 02 10:12:29	001985	LTU	-0.4446	1.0054	8.1S 144.6W	13 06 2612 C.E.
194	1 . . .	15887	May 01 2618 C.E.	21:54:23	2677385.4127667	2618 May 01 22:27:57	002014	LTU	0.4427	1.0050	14.8S 31.0E	14 02 2618 C.E.
	2 . . .	15888	Oct 25 2618 C.E.	23:08:42	2677562.4643727	2618 Oct 25 23:42:17	002016	LTU	-0.4073	1.1277	11.8N 9.0E	14 08 2618 C.E.
	3 . . .	15889	Apr 20 2619 C.E.	22:59:56	2677739.4582827	2619 Apr 20 23:33:35	002018	LTU	-0.2952	1.2872	11.8S 14.7E	13 02 2619 C.E.
	4 . . .	15890	Oct 15 2619 C.E.	12:48:40	2677917.0337919	2619 Oct 15 13:22:19	002021	LTU	0.3168	1.2733	8.7N 164.2E	14 08 2619 C.E.
195	1 . . .	15911	Mar 31 2629 C.E.	04:49:59	2681371.7013747	2629 Mar 31 05:24:30	002069	LTU	-0.3783	1.1668	4.5S 71.6W	13 01 2629 C.E.
	2 . . .	15912	Sep 24 2629 C.E.	16:02:04	2681549.1681046	2629 Sep 24 16:36:35	002072	LTU	0.3690	1.1473	1.0N 117.5E	15 07 2629 C.E.
	3 . . .	15913	Mar 20 2630 C.E.	19:40:33	2681726.3198259	2630 Mar 20 20:15:08	002075	LTU	0.3278	1.2747	0.4N 66.7E	14 01 2630 C.E.
	4 . . .	15914	Sep 13 2630 C.E.	16:22:32	2681903.1823180	2630 Sep 13 16:57:10	002077	LTU	-0.3717	1.1383	3.9S 113.6E	14 07 2630 C.E.
196	1 . . .	15936	Feb 29 2640 C.E.	10:32:13	2685358.9390402	2640 Feb 29 11:07:38	002126	LTU	0.3353	1.2478	8.1N 155.0W	14 12 2640 C.E.
	2 . . .	15937	Aug 23 2640 C.E.	16:33:41	2685535.1900529	2640 Aug 23 17:09:12	002129	LTU	-0.3138	1.2727	11.3S 112.6E	13 06 2640 C.E.
	3 . . .	15938	Feb 17 2641 C.E.	21:10:23	2685713.3822097	2641 Feb 17 21:45:53	002132	LTU	-0.3786	1.1403	11.5N 45.5E	15 12 2641 C.E.
	4 . . .	15939	Aug 13 2641 C.E.	04:22:59	2685889.6826247	2641 Aug 13 04:58:34	002134	LTU	0.4544	1.0414	14.1S 64.4W	13 05 2641 C.E.
197	1 . . .	15952	Apr 11 2647 C.E.	12:52:16	2687957.0362909	2647 Apr 11 13:28:21	002164	LTU	-0.4124	1.1071	8.7S 167.1E	13 01 2647 C.E.
	2 . . .	15953	Oct 05 2647 C.E.	23:06:17	2688134.4626965	2647 Oct 05 23:42:23	002167	LTU	0.4277	1.0371	5.3N 10.5E	14 07 2647 C.E.
	3 . . .	15954	Mar 31 2648 C.E.	04:02:14	2688311.6682167	2648 Mar 31 04:38:23	002169	LTU	0.2995	1.3282	4.0S 59.5W	14 01 2648 C.E.
	4 . . .	15955	Sep 23 2648 C.E.	23:13:47	2688488.4679066	2648 Sep 23 23:50:00	002172	LTU	-0.3051	1.2597	0.3N 9.8E	14 07 2648 C.E.
198	1 . . .	15977	Mar 11 2658 C.E.	19:00:29	2691944.2920057	2658 Mar 11 19:37:30	002222	LTU	0.3540	1.2136	3.9N 77.4E	15 13 2658 C.E.
	2 . . .	15978	Sep 03 2658 C.E.	23:40:17	2692120.4863093	2658 Sep 04 00:17:24	002225	LTU	-0.3839	1.1447	7.5S 5.1E	13 06 2658 C.E.
	3 . . .	15979	Mar 01 2659 C.E.	05:23:50	2692298.7248801	2659 Mar 01 06:00:56	002228	LTU	-0.3649	1.1650	7.4N 78.2W	15 12 2659 C.E.
	4 . . .	15980	Aug 24 2659 C.E.	11:48:33	2692474.9920524	2659 Aug 24 12:25:45	002230	LTU	0.3831	1.1728	10.6S 176.4W	13 06 2659 C.E.
199	1 . . .	16020	Mar 22 2676 C.E.	03:20:17	2698529.6390909	2676 Mar 22 03:58:55	002319	LTU	0.3794	1.1670	0.5S 48.3W	15 01 2676 C.E.
	2 . . .	16021	Sep 14 2676 C.E.	06:55:14	2698705.7883585	2676 Sep 14 07:33:58	002322	LTU	-0.4478	1.0280	3.4S 104.6W	13 07 2676 C.E.
	3 . . .	16022	Mar 11 2677 C.E.	13:29:12	2698884.0619445	2677 Mar 11 14:07:54	002324	LTU	-0.3450	1.2012	3.2N 159.8E	14 13 2677 C.E.
	4 . . .	16023	Sep 03 2677 C.E.	19:20:02	2699060.3055744	2677 Sep 03 19:58:50	002327	LTU	0.3160	1.2962	6.8S 69.9E	13 06 2677 C.E.
200	1 . . .	16795	Jul 02 2987 C.E.	14:31:43	2812222.1053592	2987 Jul 02 15:43:50	004328	LTU	0.3858	1.1771	22.4S 143.7E	14 04 2987 C.E.
	2 . . .	16796	Dec 26 2987 C.E.	04:54:02	2812398.7041864	2987 Dec 26 06:06:15	004331	LTU	-0.2485	1.3623	23.0N 73.9W	13 10 2987 C.E.
	3 . . .	16797	Jun 21 2988 C.E.	05:40:15	2812576.7362839	2988 Jun 21 06:52:28	004335	LTU	-0.3690	1.1885	23.7S 84.0W	15 04 2988 C.E.
	4 . . .	16798	Dec 14 2988 C.E.	11:06:31	2812752.9628565	2988 Dec 14 12:18:52	004339	LTU	0.4583	1.0059	23.6N 168.4W	13 10 2988 C.E.
201	1 . . .	16838	Jul 13 3005 C.E.	21:58:38	2818807.4157132	3005 Jul 13 23:13:01	004464	LTU	0.4591	1.0423	21.0S 32.4E	14 04 3005 C.E.
	2 . . .	16839	Jan 06 3006 C.E.	13:01:28	2818984.0426860	3006 Jan 06 14:15:57	004467	LTU	-0.2585	1.3446	22.2N 165.5E	13 10 3006 C.E.
	3 . . .	16840	Jul 03 3006 C.E.	12:53:46	2819162.0373365	3006 Jul 03 14:08:15	004471	LTU	-0.2966	1.3202	23.1S 168.2E	14 04 3006 C.E.
	4 . . .	16841	Dec 26 3006 C.E.	19:32:53	2819338.3145078	3006 Dec 26 20:47:29	004474	LTU	0.4462	1.0288	23.7N 66.3E	13 10 3006 C.E.
202	1 . . .	16865	Jun 12 3016 C.E.	18:03:08	2822794.2521798	3016 Jun 12 19:18:53	004546	LTU	-0.3286	1.2270	23.4S 89.8E	15 03 3016 C.E.
	2 . . .	16866	Dec 06 3016 C.E.	07:57:30	2822970.8315959	3016 Dec 06 09:13:20	004550	LTU	0.2390	1.4355	22.6N 122.0W	13 09 3016 C.E.
	3 . . .	16867	Jun 01 3017 C.E.	18:50:20	2823148.2849486	3017 Jun 01 20:06:14	004554	LTU	0.4252	1.0406	21.7S 77.4E	14 03 3017 C.E.
	4 . . .	16868	Nov 25 3017 C.E.	23:50:28	2823325.4933822	3017 Nov 26 01:06:24	004557	LTU	-0.4440	1.0554	20.3N 1.1W	14 09 3017 C.E.