7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 86,578 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: 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.
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.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day Month Year
1	1 . . .	00016	Jan 03 3973 B.C.E. 19:00:15	0270287.2918423	-3973 Jan 05 01:01:13	108057	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	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	LTU	-0.4289	1.0856	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	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	-0.2273	1.4514	13.5N	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	LTU	0.3560	1.1860	10.5S	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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	-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	0459371.1928173	-3456 Sep 10 17:25:36	089275	LTU	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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	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	LTU	-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	LTU	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	LTU	-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	LTU	-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	LTU	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	LTU	-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	LTU	0.3270	1.2204	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	LTU	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	LTU	-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	LTU	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	LTU	-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	LTU	-0.3505	1.1945	18.1N	172.3W	13 11 3408 B.C.E.
	. . . 4	01403	Aug 21 3408 B.C.E. 02:33:52	0476883.6068490	-3408 Aug 22 02:54:13	087623	LTU	0.3693	1.1673	20.2S	37.5W	15 05 3408 B.C.E.
15	1 . . .	01424	Feb 04 3398 B.C.E. 20:14:31	0480338.3434125	-3398 Feb 05 20:29:14	087282	LTU	-0.2993	1.3199	22.3N	61.0E	13 10 3398 B.C.E.
	. 2 . .	01425	Aug 01 3398 B.C.E. 03:15:40	0480515.6358848	-3398 Aug 02 03:30:21	087282	LTU	0.3777	1.1248	23.3S	49.3W	14 04 3398 B.C.E.
	. . 3 .	01426	Jan 25 3397 B.C.E. 12:02:09	0480693.0014918	-3397 Jan 26 12:16:17	087248	LTU	0.4118	1.1242	24.1N	176.8W	13 10 3397 B.C.E.
	. . . 4	01427	Jul 20 3397 B.C.E. 03:10:52	0480869.6325445	-3397 Jul 21 03:25:01	087248	LTU	-0.3498	1.1782	24.4S	49.1W	14 04 3397 B.C.E.
16	1 . . .	01464	Feb 15 3380 B.C.E. 04:10:58	0486923.6742862	-3380 Feb 16 04:15:28	086668	LTU	-0.3450	1.2389	20.2N	57.7W	13 11 3380 B.C.E.
	. 2 . .	01465	Aug 11 3380 B.C.E. 10:38:45	0487100.9435716	-3380 Aug 12 10:43:12	086668	LTU	0.4200	1.0446	22.0S	159.2W	14 04 3380 B.C.E.
	. . 3 .	01466	Feb 04 3379 B.C.E. 20:18:07	0487278.3459196	-3379 Feb 05 20:22:01	086634	LTU	0.3739	1.1953	22.9N	60.1E	14 10 3379 B.C.E.
	. . . 4	01467	Jul 31 3379 B.C.E. 10:24:31	0487454.9336890	-3379 Aug 01 10:28:26	086634	LTU	-0.2980	1.2723	23.9S	156.6W	13 04 3379 B.C.E.
17	1 . . .	01596	Jan 06 3322 B.C.E. 08:08:53	0508067.8395006	-3322 Jan 07 07:40:38	084705	LTU	-0.3586	1.1530	23.4N	120.3W	13 09 3322 B.C.E.
	. 2 . .	01597	Jul 02 3322 B.C.E. 10:28:41	0508244.9365823	-3322 Jul 03 10:00:25	084705	LTU	0.3432	1.2494	22.4S	159.8W	14 03 3322 B.C.E.
	. . 3 .	01598	Dec 26 3322 B.C.E. 09:03:23	0508421.8773498	-3322 Dec 27 08:35:10	084705	LTU	0.3500	1.1824	22.8N	135.2W	13 09 3322 B.C.E.
	. . . 4	01599	Jun 21 3321 B.C.E. 00:14:37	0508599.5101459	-3321 Jun 21 23:45:47	084672	LTU	-0.4139	1.0986	21.4S	6.9W	15 03 3321 B.C.E.
18	1 . . .	01637	Jan 16 3304 B.C.E. 15:39:58	0514653.1527583	-3304 Jan 17 15:01:39	084100	LTU	-0.3922	1.0932	23.7N	128.1E	14 10 3304 B.C.E.
	. 2 . .	01638	Jul 12 3304 B.C.E. 18:21:07	0514830.2646622	-3304 Jul 13 17:42:47	084101	LTU	0.3981	1.1463	23.4S	82.8E	15 03 3304 B.C.E.
	. . 3 .	01639	Jan 05 3303 B.C.E. 17:00:43	0515007.2088293	-3303 Jan 06 16:21:53	084068	LTU	0.3261	1.2293	24.0N	106.6E	13 09 3303 B.C.E.
	. . . 4	01640	Jul 02 3303 B.C.E. 07:38:44	0515184.8185637	-3303 Jul 03 06:59:50	084068	LTU	-0.3519	1.2092	23.1S	117.4W	15 03 3303 B.C.E.
19	1 . . .	01678	Jan 27 3286 B.C.E. 23:01:58	0521238.4597023	-3286 Jan 28 22:13:37	083499	LTU	-0.4334	1.0199	23.0N	18.5E	14 10 3286 B.C.E.
	. 2 . .	01679	Jul 24 3286 B.C.E. 02:19:34	0521415.5969184	-3286 Jul 25 01:31:12	083499	LTU	0.4473	1.0536	23.6S	35.9W	14 04 3286 B.C.E.
	. . 3 .	01680	Jan 17 3285 B.C.E. 00:50:40	0521592.5351819	-3285 Jan 18 00:01:47	083465	LTU	0.2957	1.2883	24.3N	9.7W	13 10 3285 B.C.E.
	. . . 4	01681	Jul 12 3285 B.C.E. 15:08:14	0521770.1307158	-3285 Jul 13 14:19:17	083465	LTU	-0.2952	1.3099	24.1S	130.9E	14 03 3285 B.C.E.
20	1 . . .	01702	Dec 27 3276 B.C.E. 08:06:04	0525224.8375411	-3276 Dec 28 07:12:10	083165	LTU	0.3745	1.1759	23.1N	120.6W	13 09 3276 B.C.E.
	. 2 . .	01703	Jun 22 3275 B.C.E. 17:02:02	0525402.2097501	-3275 Jun 23 16:07:33	083132	LTU	-0.3682	1.1488	21.6S	101.4E	15 03 3275 B.C.E.
	. . 3 .	01704	Dec 16 3275 B.C.E. 23:19:09	0525579.4716358	-3275 Dec 17 22:24:43	083133	LTU	-0.3120	1.3020	20.5N	10.3E	14 09 3275 B.C.E.
	. . . 4	01705	Jun 11 3274 B.C.E. 17:27:49	0525756.2276558	-3274 Jun 12 16:32:49	083099	LTU	0.3856	1.1179	18.4S	94.9E	14 02 3274 B.C.E.
21	1 . . .	01743	Jan 07 3257 B.C.E. 16:34:45	0531810.1908000	-3257 Jan 08 15:30:20	082534	LTU	0.3935	1.1438	24.2N	113.3E	13 10 3257 B.C.E.
	. 2 . .	01744	Jul 02 3257 B.C.E. 23:50:25	0531987.4933425	-3257 Jul 03 22:45:58	082534	LTU	-0.4383	1.0179	23.4S	0.2W	14 03 3257 B.C.E.
	. . 3 .	01745	Dec 27 3257 B.C.E. 08:04:24	0532164.8363944	-3257 Dec 28 06:59:58	082534	LTU	-0.2988	1.3274	22.5N	120.2W	13 09 3257 B.C.E.
	. . . 4	01746	Jun 22 3256 B.C.E. 00:10:07	0532341.5070247	-3256 Jun 22 23:05:08	082500	LTU	0.3096	1.2571	21.0S	5.6W	14 03 3256 B.C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar 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	1.0827	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	36.1W	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	9.5S	106.8W	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	19.0S	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	0690743.9887704	-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	Jan 27 2746 B.C.E. 18:16:33	0718473.2614947	-2746 Jan 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	Feb 07 2728 B.C.E. 01:36:25	0725058.5669617	-2728 Feb 07 19:55:23	065936	LTU	0.3757	1.1302	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	1.3017	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	1.0840	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	13 11 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 18:21:16	065082	LTU	-0.3592	1.2135	23.4N	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	1.1682	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	0.3966	1.1190	22.3N	70.8W	14 09 2689 B.C.E.
	. . . 4	03118	Jun 12 2688 B.C.E. 08:50:45	0739793.8685795	-2688 Jun 13 02:50:06	064759	LTU	-0.4131	1.1083	20.5S	135.8W	13 03 2688 B.C.E.
37	1 . . .	03131	Feb 08 2682 B.C.E. 19:02:09	0741861.2931579	-2682 Feb 09 12:58:34	064583	LTU	0.4012	1.1183	21.3N	79.5E	13 11 2682 B.C.E.
	. 2 . .	03132	Aug 05 2682 B.C.E. 07:59:00	0742038.8326404	-2682 Aug 06 01:55:21	064583	LTU	-0.4329	1.0343	22.9S	119.5W	14 04 2682 B.C.E.
	. . 3 .	03133	Jan 29 2681 B.C.E. 08:38:02	0742215.8597397	-2681 Jan 30 02:33:56	064554	LTU	-0.3291	1.2712	22.4N	125.3W	13 10 2681 B.C.E.
	. . . 4	03134	Jul 24 2681 B.C.E. 09:06:59	0742392.8798439	-2681 Jul 25 03:02:53	064554	LTU	0.3004	1.2659	23.4S	137.5W	14 04 2681 B.C.E.
38	1 . . .	03155	Jan 09 2671 B.C.E. 00:20:48	0745848.5144462	-2671 Jan 09 18:11:49	064262	LTU	-0.3262	1.2727	23.7N	2.8W	14 10 2671 B.C.E.
	. 2 . .	03156	Jul 04 2671 B.C.E. 06:47:11	0746024.7827617	-2671 Jul 05 00:38:14	064262	LTU	0.4335	1.0430	23.1S	103.9W	13 03 2671 B.C.E.
	. . 3 .	03157	Dec 29 2671 B.C.E. 13:10:39	0746203.0490677	-2671 Dec 30 07:01:39	064262	LTU	0.3856	1.1388	23.8N	163.4E	14 09 2671 B.C.E.
	. . . 4	03158	Jun 23 2670 B.C.E. 16:15:00	0746379.1770796	-2670 Jun 24 10:05:35	064234	LTU	-0.3423	1.2388	22.5S	113.4E	13 03 2670 B.C.E.
39	1 . . .	03222	Dec 19 2643 B.C.E. 22:09:27	0756420.4232235	-2643 Dec 20 15:46:53	063448	LTU	0.3806	1.1131	22.5N	27.8E	14 09 2643 B.C.E.
	. 2 . .	03223	Jun 14 2642 B.C.E. 15:46:01	0756597.1569534	-2642 Jun 15 09:23:00	063419	LTU	-0.2910	1.3528	20.8S	120.5E	13 03 2642 B.C.E.
	. . 3 .	03224	Dec 08 2642 B.C.E. 21:16:03	0756774.3861408	-2642 Dec 09 14:53:02	063419	LTU	-0.3023	1.2541	19.6N	40.3E	14 09 2642 B.C.E.
	. . . 4	03225	Jun 03 2641 B.C.E. 08:24:52	0756951.8506012	-2641 Jun 04 02:01:21	063390	LTU	0.4533	1.0452	17.6S	129.1W	14 02 2641 B.C.E.
40	1 . . .	03265	Dec 30 2625 B.C.E. 06:03:31	0763005.7524453	-2625 Dec 30 23:32:18	062928	LTU	0.3979	1.0819	23.9N	89.6W	14 09 2625 B.C.E.
	. 2 . .	03266	Jun 24 2624 B.C.E. 23:27:24	0763182.4773557	-2624 Jun 25 16:55:43	062899	LTU	-0.3568	1.2311	22.9S	5.5E	14 03 2624 B.C.E.
	. . 3 .	03267	Dec 19 2624 B.C.E. 05:17:13	0763359.7202886	-2624 Dec 19 22:45:33	062899	LTU	-0.2918	1.2752	21.9N	79.2W	13 09 2624 B.C.E.
	. . . 4	03268	Jun 14 2623 B.C.E. 15:51:52	0763537.1610200	-2623 Jun 15 09:19:41	062870	LTU	0.3841	1.1702	20.3S	119.1E	14 03 2623 B.C.E.
41	1 . . .	03307	Jan 10 2606 B.C.E. 13:50:05	0769591.0764462	-2606 Jan 11 07:09:45	062381	LTU	0.4216	1.0393	24.4N	155.0E	14 10 2606 B.C.E.
	. 2 . .	03308	Jul 06 2606 B.C.E. 07:15:02	0769767.8021037	-2606 Jul 07 00:34:43	062381	LTU	-0.4174	1.1186	24.1S	110.8W	14 03 2606 B.C.E.
	. . 3 .	03309	Dec 30 2606 B.C.E. 13:11:46	0769945.0498415	-2606 Dec 31 06:31:29	062381	LTU	-0.2755	1.3073	23.3N	163.3E	13 09 2606 B.C.E.
	. . . 4	03310	Jun 24 2605 B.C.E. 23:22:00	0770122.4736112	-2605 Jun 25 16:41:10	062352	LTU	0.3181	1.2889	22.2S	6.9E	15 03 2605 B.C.E.
42	1 . . .	04080	Apr 20 2295 B.C.E. 11:16:55	0883283.9700839	-2295 Apr 21 02:13:13	053780	LTU	0.3582	1.1803	3.7S	168.7W	14 01 2295 B.C.E.
	. 2 . .	04081	Oct 13 2295 B.C.E. 23:33:27	0883460.4815650	-2295 Oct 14 14:29:48	053780	LTU	-0.1966	1.5085	0.8N	6.1E	13 07 2295 B.C.E.
	. . 3 .	04082	Apr 09 2294 B.C.E. 13:10:11	0883638.0487365	-2294 Apr 10 04:06:05	053754	LTU	-0.4122	1.0668	0.1S	163.9E	14 01 2294 B.C.E.
	. . . 4	04083	Oct 03 2294 B.C.E. 15:19:08	0883815.1382856	-2294 Oct 04 06:15:01	053754	LTU	0.4734	1.0025	3.0S	129.9E	13 07 2294 B.C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day Month Year
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	Feb 08 2142 B.C.E. 17:09:59	0939096.2152684	−2142 Feb 09 06:59:53	049792	LTU	−0.4008	1.1253	19.6N	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 16:54:19	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	23.6S	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	Jul 04 2131 B.C.E. 03:46:07	0943259.6570310	−2131 Jul 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	23.5N	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	23.5S	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	0979996.4859835	−2030 Feb 01 12:42:44	046975	LTU	−0.3475	1.1754	21.2N	9.5E	14 11 2030 B.C.E.
	. . . 4	04695	Jul 27 2030 B.C.E. 22:39:43	0980173.4442427	−2030 Jul 28 11:42:37	046975	LTU	0.2499	1.4213	22.7S	19.9E	14 04 2030 B.C.E.
58	1 . . .	04717	Jan 10 2020 B.C.E. 20:02:27	0983628.3350325	−2020 Jan 11 09:01:17	046728	LTU	−0.4457	1.0102	23.4N	62.1E	13 10 2020 B.C.E.
	. 2 . .	04718	Jul 07 2020 B.C.E. 11:37:43	0983805.9845265	−2020 Jul 08 00:36:29	046728	LTU	0.3599	1.1939	23.5S	175.9W	14 04 2020 B.C.E.
	. . 3 .	04719	Dec 31 2020 B.C.E. 04:24:56	0983982.6839865	−2020 Dec 31 17:23:46	046728	LTU	0.2796	1.3420	24.1N	64.9W	13 10 2020 B.C.E.
	. . . 4	04720	Jun 26 2019 B.C.E. 17:52:14	0984160.2446012	−2019 Jun 27 06:50:35	046703	LTU	−0.4155	1.0677	23.6S	89.6E	15 03 2019 B.C.E.
59	1 . . .	04784	Dec 22 1992 B.C.E. 02:46:08	0994200.6153691	−1992 Dec 22 15:33:27	046039	LTU	0.4018	1.1365	23.5N	41.1W	14 09 1992 B.C.E.
	. 2 . .	04785	Jun 16 1991 B.C.E. 21:07:55	0994377.3804932	−1991 Jun 17 09:54:51	046015	LTU	−0.3722	1.1436	22.2S	40.4E	14 03 1991 B.C.E.
	. . 3 .	04786	Dec 11 1991 B.C.E. 17:57:30	0994555.2482651	−1991 Dec 12 06:44:24	046015	LTU	−0.2723	1.3618	21.2N	90.0E	15 09 1991 B.C.E.
	. . . 4	04787	Jun 06 1990 B.C.E. 01:39:42	0994731.5692333	−1990 Jun 06 14:26:14	045990	LTU	0.4061	1.1044	19.4S	27.6W	13 03 1990 B.C.E.
60	1 . . .	05610	Apr 12 1662 B.C.E. 01:07:17	1114478.5467268	−1662 Apr 12 11:46:03	038325	LTU	0.3207	1.2944	2.3S	15.7W	14 01 1662 B.C.E.
	. 2 . .	05611	Oct 06 1662 B.C.E. 05:06:10	1114655.7126103	−1662 Oct 06 15:44:54	038325	LTU	−0.2482	1.3518	0.8S	77.3W	14 07 1662 B.C.E.
	. . 3 .	05612	Mar 31 1661 B.C.E. 18:13:38	1114833.2594638	−1661 Apr 01 04:52:00	038303	LTU	−0.4128	1.1266	1.1N	88.5E	14 13 1661 B.C.E.
	. . . 4	05613	Sep 24 1661 B.C.E. 05:09:17	1115009.7147765	−1661 Sep 24 15:47:41	038303	LTU	0.4453	1.0031	4.8S	77.8W	13 06 1661 B.C.E.
61	1 . . .	05654	Apr 22 1644 B.C.E. 08:39:22	1121063.8606728	−1644 Apr 22 19:11:29	037926	LTU	0.3915	1.1660	6.4S	129.8W	13 01 1644 B.C.E.
	. 2 . .	05655	Oct 16 1644 B.C.E. 13:03:27	1121241.0440580	−1644 Oct 16 23:35:33	037926	LTU	−0.2605	1.3282	3.7N	162.7E	13 07 1644 B.C.E.
	. . 3 .	05656	Apr 12 1643 B.C.E. 01:52:38	1121418.5782199	−1643 Apr 12 12:24:22	037904	LTU	−0.3466	1.2485	3.1S	27.4W	14 01 1643 B.C.E.
	. . . 4	05657	Oct 05 1643 B.C.E. 13:11:37	1121595.0497380	−1643 Oct 05 23:43:23	037904	LTU	0.4279	1.0350	0.4S	161.0E	13 07 1643 B.C.E.
62	1 . . .	05698	May 03 1626 B.C.E. 16:09:08	1127649.1730069	−1626 May 04 02:34:36	037528	LTU	0.4646	1.0332	10.3S	116.7E	14 02 1626 B.C.E.
	. 2 . .	05699	Oct 27 1626 B.C.E. 21:06:34	1127826.3795569	−1626 Oct 28 07:32:02	037528	LTU	−0.2679	1.3136	8.1N	41.4E	14 08 1626 B.C.E.
	. . 3 .	05700	Apr 22 1625 B.C.E. 09:25:05	1128003.8924203	−1625 Apr 22 19:50:10	037506	LTU	−0.2751	1.3797	7.2S	141.6W	14 01 1625 B.C.E.
	. . . 4	05701	Oct 15 1625 B.C.E. 21:22:41	1128180.3907523	−1625 Oct 16 07:47:49	037506	LTU	0.4169	1.0554	4.1N	37.6E	13 07 1625 B.C.E.
63	1 . . .	05766	Apr 13 1597 B.C.E. 05:59:31	1138221.7496652	−1597 Apr 13 16:14:23	036894	LTU	−0.3730	1.1695	3.9S	89.3W	15 01 1597 B.C.E.
	. 2 . .	05767	Oct 06 1597 B.C.E. 11:06:15	1138397.9626770	−1597 Oct 06 21:21:11	036894	LTU	0.3243	1.2635	0.3N	167.7W	13 07 1597 B.C.E.
	. . 3 .	05768	Apr 02 1596 B.C.E. 11:43:16	1138575.9883847	−1596 Apr 02 21:57:47	036872	LTU	0.4039	1.0872	1.1N	173.8W	14 13 1596 B.C.E.
	. . . 4	05769	Sep 26 1596 B.C.E. 01:56:59	1138752.5812415	−1596 Sep 26 12:11:32	036872	LTU	−0.3616	1.2112	4.7S	29.5W	13 06 1596 B.C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day Month Year
64	1 . . .	05791	Mar 13 1586 B.C.E. 07:55:55	1142207.8304927	-1586 Mar 13 18:06:50	036654	LTU	0.3264	1.2240	8.8N	115.0W	13 12 1586 B.C.E.
	. 2 . .	05792	Sep 06 1586 B.C.E. 16:41:10	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. 12:07:39	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. 03:02:48	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. 13:03:35	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. 19:48:58	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. 18:24:33	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. 10:43:13	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. 22:46:27	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. 01:34:47	1146371.5658212	-1575 Aug 06 11:41:42	036416	LTU	0.2977	1.2709	20.6S	23.2W	14 05 1575 B.C.E.
	. . 3 .	05818	Jan 30 1574 B.C.E. 14:58:44	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. 02:04:53	1146725.5867236	-1574 Jul 26 12:11:28	036394	LTU	-0.4392	1.0211	23.1S	31.3W	13 04 1574 B.C.E.
67	1 . . .	05832	Mar 23 1568 B.C.E. 14:46:45	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. 01:02:43	1148970.5435588	-1568 Sep 17 11:07:07	036265	LTU	-0.3190	1.2757	8.1S	15.5W	14 06 1568 B.C.E.
	. . 3 .	05834	Mar 12 1567 B.C.E. 19:32:32	1149147.3142570	-1567 Mar 13 05:36:37	036243	LTU	-0.3697	1.1691	8.3N	70.6E	13 12 1567 B.C.E.
	. . . 4	05835	Sep 06 1567 B.C.E. 10:52:10	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. 06:54:32	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. 08:42:15	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. 23:19:20	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. 09:13:34	1153310.8844257	-1556 Aug 05 19:13:42	036006	LTU	-0.3804	1.1287	21.2S	137.9W	13 05 1556 B.C.E.
69	1 . . .	05897	Mar 03 1539 B.C.E. 14:56:52	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. 15:57:56	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	Feb 21 1538 B.C.E. 07:33:10	1159719.8146964	-1538 Feb 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. 16:32:11	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. 22:49:44	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. 23:24:26	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. 15:37:19	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. 00:02:02	1166481.5014135	-1520 Aug 27 09:49:20	035236	LTU	-0.2858	1.3014	15.4S	0.3E	13 05 1520 B.C.E.
71	1 . . .	06045	Mar 05 1474 B.C.E. 20:00:34	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. 21:50:44	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. 01:29:40	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. 13:12:20	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. 20:41:10	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. 05:01:27	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. 00:12:17	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. 16:04:15	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. 04:07:33	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. 12:51:23	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	Feb 01 1444 B.C.E. 08:10:44	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. 23:21:24	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. 18:24:31	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. 22:23:05	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. 10:15:41	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. 23:19:30	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. 02:56:14	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. 05:06:29	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. 18:58:03	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. 06:07:29	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. 07:00:09	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. 12:10:56	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. 12:54:15	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 07 1404 B.C.E. 03:32:49	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. 15:30:44	1214824.1463390	-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. 19:30:43	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. 21:05:56	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. 11:04:29	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. 23:51:00	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. 02:58:17	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. 05:09:43	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. 18:40:43	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. 15:35:22	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. 21:46:06	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	Apr 13 1057 B.C.E. 02:52:34	1335456.6198364	-1057 Apr 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. 08:56:51	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. 22:56:42	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. 06:14:07	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. 09:51:22	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. 17:39:24	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. 09:11:40	1345673.8831001	-1029 Apr 03 16:18:39	025620	LTU	0.3024	1.2665	1.2S	136.3W	14 01 1029 B.C.E.
	. 2 . .	07129	Sep 27 1029 B.C.E. 08:32:56	1345850.8562022	-1029 Sep 27 15:39:55	025620	LTU	-0.2493	1.4162	2.3S	129.1W	14 07 1029 B.C.E.
	. . 3 .	07130	Mar 23 1028 B.C.E. 10:02:12	1346027.9182000	-1028 Mar 23 17:08:56	025602	LTU	-0.4479	1.0072	2.5N	148.2W	13 13 1028 B.C.E.
	. . . 4	07131	Sep 16 1028 B.C.E. 22:40:11	1346205.4445701	-1028 Sep 17 05:46:51	025602	LTU	0.4592	1.0130	5.9S	19.4E	15 06 1028 B.C.E.
82	1 . . .	07170	Apr 14 1011 B.C.E. 15:46:15	1352259.1571174	-1011 Apr 14 22:47:54	025299	LTU	0.3825	1.1204	5.3S	123.9E	13 01 1011 B.C.E.
	. 2 . .	07171	Oct 08 1011 B.C.E. 17:14:19	1352436.2182791	-1011 Oct 09 00:15:58	025299	LTU	-0.2635	1.3884	2.1N	99.8E	14 07 1011 B.C.E.
	. . 3 .	07172	Apr 03 1010 B.C.E. 16:56:05	1352613.2056150	-1010 Apr 03 23:57:28	025281	LTU	-0.3767	1.1404	1.6S	107.3E	14 01 1010 B.C.E.
	. . . 4	07173	Sep 28 1010 B.C.E. 06:58:49	1352790.7908478	-1010 Sep 28 14:00:09	025281	LTU	0.4396	1.0461	1.6S	106.0W	14 07 1010 B.C.E.
83	1 . . .	07195	Mar 13 1000 B.C.E. 22:39:21	1356245.4439876	-1000 Mar 14 05:37:47	025104	LTU	-0.2692	1.3692	6.2N	23.5E	13 12 1000 B.C.E.
	. 2 . .	07196	Sep 07 1000 B.C.E. 10:21:09	1356422.9313529	-1000 Sep 07 17:19:32	025104	LTU	0.2765	1.3136	9.6S	155.2W	14 06 1000 B.C.E.
	. . 3 .	07197	Mar 03 999 B.C.E. 13:32:41	1356600.0643624	-0999 Mar 03 20:30:47	025086	LTU	0.4585	1.0387	10.9N	161.2E	13 12 999 B.C.E.
	. . . 4	07198	Aug 27 999 B.C.E. 10:28:00	1356776.9361141	-0999 Aug 27 17:26:07	025086	LTU	-0.4421	1.0034	14.2S	156.3W	13 06 999 B.C.E.
84	1 . . .	07236	Mar 25 982 B.C.E. 06:16:46	1362830.7616427	-0982 Mar 25 13:09:54	024787	LTU	-0.3242	1.2712	1.9N	91.9W	13 13 982 B.C.E.
	. 2 . .	07237	Sep 18 982 B.C.E. 17:59:58	1363008.2499804	-0982 Sep 19 00:53:04	024787	LTU	0.3083	1.2524	5.4S	89.4E	15 06 982 B.C.E.
	. . 3 .	07238	Mar 13 981 B.C.E. 21:33:26	1363185.3982151	-0981 Mar 14 04:26:15	024769	LTU	0.4109	1.1280	6.7N	40.2E	14 12 981 B.C.E.
	. . . 4	07239	Sep 06 981 B.C.E. 17:48:55	1363362.2423022	-0981 Sep 07 00:41:45	024769	LTU	-0.4002	1.0789	10.3S	93.0E	14 06 981 B.C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day	Month	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	0.3323	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	6.1S	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	61.3E	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 08 905 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	1.1595	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	1.2504	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 . . .	08508	May 06 454 B.C.E. 16:04:24	1555725.1697205	-0454 May 06 20:36:06	016304	LTU	0.3815	1.1310	14.4S	117.5E	14	02	454 B.C.E.
	. 2 . .	08509	Oct 30 454 B.C.E. 08:12:07	1555901.8417470	-0454 Oct 30 12:43:44	016297	LTU	-0.2079	1.4909	12.0N	126.0W	13	08	454 B.C.E.
	. . 3 .	08510	Apr 24 453 B.C.E. 16:55:31	1556079.2052159	-0453 Apr 24 21:27:00	016289	LTU	-0.3812	1.1237	11.4S	105.1E	14	02	453 B.C.E.
	. . . 4	08511	Oct 18 453 B.C.E. 23:50:31	1556256.4934190	-0453 Oct 19 04:21:51	016280	LTU	0.4670	1.0104	8.6N	0.6W	14	08	453 B.C.E.
99	1 . . .	08688	Apr 06 378 B.C.E. 19:43:54	1583454.3221493	-0378 Apr 06 23:55:38	015105	LTU	0.3131	1.3089	4.2S	65.0E	14	01	378 B.C.E.
	. 2 . .	08689	Sep 30 378 B.C.E. 06:30:24	1583630.7711165	-0378 Sep 30 10:42:05	015099	LTU	-0.3840	1.1161	0.4N	99.2W	13	07	378 B.C.E.
	. . 3 .	08690	Mar 26 377 B.C.E. 10:54:13	1583808.9543180	-0377 Mar 26 15:05:43	015092	LTU	-0.4320	1.0716	0.7S	161.9W	14	01	377 B.C.E.
	. . . 4	08691	Sep 18 377 B.C.E. 12:49:33	1583985.0344051	-0377 Sep 18 17:00:58	015084	LTU	0.3461	1.2146	3.4S	166.4E	12	07	377 B.C.E.
100	1 . . .	08731	Apr 17 360 B.C.E. 03:25:34	1590039.6427529	-0360 Apr 17 07:32:52	014839	LTU	0.3780	1.1904	8.2S	51.4W	14	01	360 B.C.E.
	. 2 . .	08732	Oct 10 360 B.C.E. 14:26:49	1590216.1019577	-0360 Oct 10 18:34:03	014832	LTU	-0.4039	1.0795	4.8N	141.0E	13	07	360 B.C.E.
	. . 3 .	08733	Apr 06 359 B.C.E. 18:26:38	1590394.2684900	-0359 Apr 06 22:33:40	014824	LTU	-0.3719	1.1815	4.9S	83.9E	15	01	359 B.C.E.
	. . . 4	08734	Sep 29 359 B.C.E. 21:02:23	1590570.3766518	-0359 Sep 30 01:09:23	014818	LTU	0.3206	1.2615	0.9N	42.5E	13	07	359 B.C.E.
101	1 . . .	08772	Apr 28 342 B.C.E. 11:01:38	1596624.9594732	-0342 Apr 28 15:04:37	014579	LTU	0.4470	1.0640	12.0S	166.3W	14	02	342 B.C.E.
	. 2 . .	08773	Oct 21 342 B.C.E. 22:31:02	1596801.4382139	-0342 Oct 22 02:33:55	014572	LTU	-0.4183	1.0532	9.0N	19.5E	13	08	342 B.C.E.
	. . 3 .	08774	Apr 17 341 B.C.E. 01:51:43	1596979.5775864	-0341 Apr 17 05:54:26	014565	LTU	-0.3065	1.3009	8.9S	28.3W	15	01	341 B.C.E.
	. . . 4	08775	Oct 10 341 B.C.E. 05:23:43	1597155.7248006	-0341 Oct 10 09:26:23	014558	LTU	0.3014	1.2970	5.3N	83.5W	13	07	341 B.C.E.
102	1 . . .	08798	Mar 28 331 B.C.E. 06:42:48	1600611.7797170	-0331 Mar 28 10:43:10	014424	LTU	-0.3363	1.2105	1.3S	99.1W	14	01	331 B.C.E.
	. 2 . .	08799	Sep 20 331 B.C.E. 18:22:23	1600788.2655390	-0331 Sep 20 22:22:41	014418	LTU	0.3630	1.2106	2.6S	83.1E	14	07	331 B.C.E.
	. . 3 .	08800	Mar 17 330 B.C.E. 07:15:16	1600965.8022628	-0330 Mar 17 11:15:27	014411	LTU	0.4050	1.0748	3.7N	106.0W	14	13	330 B.C.E.
	. . . 4	08801	Sep 10 330 B.C.E. 10:29:51	1601142.9374007	-0330 Sep 10 14:29:53	014403	LTU	-0.3315	1.2642	7.4S	157.8W	14	06	330 B.C.E.
103	1 . . .	08822	Feb 24 320 B.C.E. 05:57:12	1604597.7480598	-0320 Feb 24 09:55:05	014271	LTU	0.3269	1.2392	11.4N	84.9W	13	12	320 B.C.E.
	. 2 . .	08823	Aug 20 320 B.C.E. 20:58:12	1604775.3737521	-0320 Aug 21 00:55:54	014264	LTU	-0.3069	1.2802	14.4S	46.1E	15	06	320 B.C.E.
	. . 3 .	08824	Feb 13 319 B.C.E. 16:25:56	1604952.1846777	-0319 Feb 13 20:23:35	014257	LTU	-0.4090	1.1142	14.4N	117.9E	14	12	319 B.C.E.
	. . . 4	08825	Aug 10 319 B.C.E. 01:03:47	1605129.5442988	-0319 Aug 10 05:01:16	014250	LTU	0.4475	1.0009	17.1S	15.4W	14	05	319 B.C.E.
104	1 . . .	08838	Apr 07 313 B.C.E. 13:36:46	1607197.0672019	-0313 Apr 07 17:32:58	014173	LTU	-0.4056	1.0835	5.6S	156.3E	14	01	313 B.C.E.
	. 2 . .	08839	Oct 01 313 B.C.E. 02:54:22	1607373.6210909	-0313 Oct 01 06:50:28	014166	LTU	0.3845	1.1701	1.9N	45.6W	13	07	313 B.C.E.
	. . 3 .	08840	Mar 27 312 B.C.E. 14:08:34	1607551.0892830	-0312 Mar 27 18:04:35	014160	LTU	0.3410	1.1942	0.6S	149.7E	13	01	312 B.C.E.
	. . . 4	08841	Sep 20 312 B.C.E. 18:49:05	1607728.2840858	-0312 Sep 20 22:44:57	014153	LTU	-0.3037	1.3128	3.0S	76.6E	14	07	312 B.C.E.
105	1 . . .	08862	Mar 07 302 B.C.E. 13:32:57	1611183.0645475	-0302 Mar 07 17:26:42	014023	LTU	0.3710	1.1615	7.4N	160.5E	13	12	302 B.C.E.
	. 2 . .	08863	Sep 01 302 B.C.E. 04:34:25	1611360.6905621	-0302 Sep 01 08:27:59	014016	LTU	-0.3531	1.1921	10.7S	68.4W	14	06	302 B.C.E.
	. . 3 .	08864	Feb 25 301 B.C.E. 00:33:06	1611537.5229888	-0301 Feb 25 04:26:39	014011	LTU	-0.3727	1.1837	10.7N	4.3W	13	12	301 B.C.E.
	. . . 4	08865	Aug 20 301 B.C.E. 08:07:57	1611714.8388523	-0301 Aug 20 12:01:20	014004	LTU	0.3905	1.1030	13.9S	121.6W	14	06	301 B.C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day	Month	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 13:55:07	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	1.2370	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	1652083.6190079	−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	1.1035	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	008787	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	14.0S	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	1.2322	7.6N	137.3W	13	08	227 C.E.
	. . 3 .	10140	Apr 07 228 C.E. 08:08:01	1804431.8389035	0228 Apr 07 10:26:52	008332	LTU	0.4216	1.0499	6.3S	121.5W	14	01	228 C.E.
	. . . 4	10141	Oct 01 228 C.E. 00:29:17	1804608.5203413	0228 Oct 01 02:48:05	008327	LTU	−0.3448	1.2440	2.7N	9.6W	14	07	228 C.E.
119	1 . . .	10162	Mar 18 238 C.E. 04:01:46	1808063.6678930	0238 Mar 18 06:19:05	008238	LTU	0.3273	1.2235	1.5N	58.0W	13	13	238 C.E.
	. 2 . .	10163	Sep 11 238 C.E. 14:52:14	1808241.1196103	0238 Sep 11 17:09:25	008233	LTU	−0.2994	1.3116	5.1S	136.2E	14	06	238 C.E.
	. . 3 .	10164	Mar 07 239 C.E. 09:24:37	1808417.8920979	0239 Mar 07 11:41:47	008228	LTU	−0.4204	1.0763	5.2N	138.2W	13	12	239 C.E.
	. . . 4	10165	Sep 01 239 C.E. 00:03:06	1808595.5021581	0239 Sep 01 02:20:09	008224	LTU	0.4502	1.0088	8.6S	1.1W	14	06	239 C.E.
120	1 . . .	10179	Apr 29 245 C.E. 10:54:43	1810662.9546698	0245 Apr 29 13:10:52	008170	LTU	−0.4193	1.0772	14.7S	165.0W	14	02	245 C.E.
	. 2 . .	10180	Oct 22 245 C.E. 17:32:21	1810839.2308026	0245 Oct 22 19:48:28	008165	LTU	0.3571	1.2093	11.7N	93.4E	13	08	245 C.E.
	. . 3 .	10181	Apr 18 246 C.E. 14:52:59	1811017.1201326	0246 Apr 18 17:08:59	008161	LTU	0.3496	1.1825	10.4S	136.3E	14	02	246 C.E.
	. . . 4	10182	Oct 12 246 C.E. 09:03:30	1811193.8774270	0246 Oct 12 11:19:25	008156	LTU	−0.3253	1.2785	7.1N	138.8W	13	08	246 C.E.
121	1 . . .	10203	Mar 28 256 C.E. 11:05:32	1814648.9621763	0256 Mar 28 13:20:00	008067	LTU	0.3870	1.1167	2.7S	164.9W	13	01	256 C.E.
	. 2 . .	10204	Sep 21 256 C.E. 22:57:15	1814826.4564227	0256 Sep 22 01:11:35	008062	LTU	−0.3335	1.2461	0.8S	14.1E	15	07	256 C.E.
	. . 3 .	10205	Mar 17 257 C.E. 17:02:23	1815003.2099879	0257 Mar 17 19:16:42	008057	LTU	−0.3713	1.1697	1.0N	106.5E	13	13	257 C.E.
	. . . 4	10206	Sep 11 257 C.E. 07:35:19	1815180.8161962	0257 Sep 11 09:49:30	008052	LTU	0.4078	1.0834	4.5S	114.9W	14	06	257 C.E.
122	1 . . .	10228	Feb 26 267 C.E. 05:25:09	1818635.7258026	0267 Feb 26 07:37:52	007962	LTU	−0.2634	1.3930	8.7N	77.6W	13	12	267 C.E.
	. 2 . .	10229	Aug 22 267 C.E. 04:33:20	1818812.6898198	0267 Aug 22 06:45:58	007957	LTU	0.3500	1.1748	12.1S	68.1W	14	06	267 C.E.
	. . 3 .	10230	Feb 15 268 C.E. 21:43:42	1818990.4053433	0268 Feb 15 23:56:13	007952	LTU	0.4312	1.0836	13.1N	38.4E	14	12	268 C.E.
	. . . 4	10231	Aug 10 268 C.E. 05:57:27	1819166.7482252	0268 Aug 10 08:09:55	007947	LTU	−0.3934	1.1108	16.3S	88.5W	13	05	268 C.E.
123	1 . . .	10268	Mar 08 285 C.E. 13:34:48	1825221.0658320	0285 Mar 08 15:44:37	007788	LTU	−0.3014	1.3255	4.5N	159.2E	13	13	285 C.E.
	. 2 . .	10269	Sep 01 285 C.E. 11:37:57	1825397.9846928	0285 Sep 01 13:47:41	007783	LTU	0.4041	1.0740	8.1S	174.9W	13	06	285 C.E.
	. . 3 .	10270	Feb 26 286 C.E. 06:03:05	1825575.7521450	0286 Feb 26 08:12:44	007779	LTU	0.4016	1.1387	9.2N	86.9W	14	12	286 C.E.
	. . . 4	10271	Aug 21 286 C.E. 13:08:54	1825752.0478517	0286 Aug 21 15:18:31	007775	LTU	−0.3337	1.2203	12.7S	163.2E	13	06	286 C.E.
124	1 . . .	10374	Feb 28 332 C.E. 09:23:21	1842378.8912166	0332 Feb 28 11:25:33	007334	LTU	0.3120	1.2704	8.3N	137.1W	14	12	332 C.E.
	. 2 . .	10375	Aug 22 332 C.E. 12:04:50	1842555.0033558	0332 Aug 22 14:07:00	007329	LTU	−0.4060	1.1248	12.2S	179.3E	13	06	332 C.E.
	. . 3 .	10376	Feb 16 333 C.E. 13:37:41	1842733.0678323	0333 Feb 16 15:39:44	007325	LTU	−0.4242	1.0387	11.7N	159.6E	14	12	333 C.E.
	. . . 4	10377	Aug 12 333 C.E. 04:06:41	1842909.6713076	0333 Aug 12 06:08:41	007320	LTU	0.3194	1.2974	15.0S	61.1W	13	05	333 C.E.
125	1 . . .	10416	Mar 10 350 C.E. 17:06:30	1848964.2128476	0350 Mar 10 19:05:46	007158	LTU	0.3553	1.1908	4.1N	106.4E	15	13	350 C.E.
	. 2 . .	10417	Sep 02 350 C.E. 20:01:33	1849140.3344067	0350 Sep 02 22:00:47	007153	LTU	−0.4506	1.0428	8.3S	59.5E	13	06	350 C.E.
	. . 3 .	10418	Feb 27 351 C.E. 21:05:26	1849318.3787777	0351 Feb 27 23:04:34	007149	LTU	−0.3852	1.1109	7.8N	47.1E	15	12	351 C.E.
	. . . 4	10419	Aug 23 351 C.E. 12:03:55	1849495.0027202	0351 Aug 23 14:02:59	007144	LTU	0.2678	1.3908	11.4S	179.2E	13	06	351 C.E.
126	1 . . .	10441	Feb 06 361 C.E. 15:54:42	1852950.1629851	0361 Feb 06 17:52:14	007051	LTU	−0.4212	1.0444	14.9N	125.5E	14	12	361 C.E.
	. 2 . .	10442	Aug 03 361 C.E. 03:33:23	1853127.6481827	0361 Aug 03 05:30:47	007046	LTU	0.3363	1.2502	17.4S	52.5W	14	05	361 C.E.
	. . 3 .	10443	Jan 26 362 C.E. 20:35:03	1853304.3576696	0362 Jan 26 22:32:27	007042	LTU	0.3015	1.2882	18.7N	55.4E	13	11	362 C.E.
	. . . 4	10444	Jul 23 362 C.E. 13:28:49	1853482.0616734	0362 Jul 23 15:26:04	007037	LTU	−0.4364	1.0406	20.7S	158.7E	14	05	362 C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day	Month	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	1.1259	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	1.2602	12.9N	89.4E	13	08	766 C.E.
	. . 3 .	11446	Apr 18 767 C.E. 23:39:06	2001312.4854911	0767 Apr 19 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	Apr 29 785 C.E. 06:40:43	2007897.7782776	0785 Apr 29 07:31:39	003058	LTU	0.3892	1.1264	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	8.5S	71.3W	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	92.4W	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 03 00:07:50	002907	LTU	−0.3609	1.2066	15.9N	6.6E	13	08	803 C.E.
135	1 . . .	11554	Apr 19 813 C.E. 11:30:34	2018114.9795633	0813 Apr 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	Mar 19 843 C.E. 19:17:01	2029041.3034845	0843 Mar 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	Apr 20 878 C.E. 18:57:28	2041857.2899019	0878 Apr 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 C.E. 17:22:38	2046375.2240460	0890 Sep 02 18:00:09	002250	LTU	0.2984	1.3268	6.0S	98.5E	13	06	890 C.E.
141	1 . . .	11751	Feb 18 900 C.E. 10:08:26	2049830.9225177	0900 Feb 18 10:44:50	002185	LTU	−0.3349	1.1969	9.8N	148.4W	14	12	900 C.E.
	. 2 . .	11752	Aug 13 900 C.E. 09:53:20	2050007.9120427	0900 Aug 13 10:29:42	002182	LTU	0.3091	1.3140	13.0S	147.8W	14	06	900 C.E.
	. . 3 .	11753	Feb 06 901 C.E. 10:19:48	2050184.9304116	0901 Feb 06 10:56:07	002178	LTU	0.3704	1.1410	14.4N	150.8W	13	12	901 C.E.
	. . . 4	11754	Aug 03 901 C.E. 00:32:48	2050362.5227825	0901 Aug 03 01:09:02	002175	LTU	−0.4388	1.0573	17.0S	7.1W	15	05	901 C.E.
142	1 . . .	11792	Feb 28 918 C.E. 17:34:24	2056416.2322212	0918 Feb 28 18:08:47	002063	LTU	−0.3720	1.1303	5.7N	99.5E	14	12	918 C.E.
	. 2 . .	11793	Aug 24 918 C.E. 17:45:06	2056593.2396473	0918 Aug 24 18:19:24	002059	LTU	0.3626	1.2140	9.2S	93.6E	14	06	918 C.E.
	. . 3 .	11794	Feb 17 919 C.E. 18:06:13	2056770.2543118	0919 Feb 17 18:40:30	002056	LTU	0.3426	1.1949	10.5N	92.3E	14	12	919 C.E.
	. . . 4	11795	Aug 14 919 C.E. 08:00:42	2056947.8338189	0919 Aug 14 08:34:53	002053	LTU	−0.3793	1.1637	13.6S	119.5W	14	06	919 C.E.
143	1 . . .	11833	Mar 11 936 C.E. 00:51:02	2063001.5354379	0936 Mar 11 01:23:27	001945	LTU	−0.4167	1.0500	1.4N	10.5W	14	13	936 C.E.
	. 2 . .	11834	Sep 04 936 C.E. 01:43:28	2063178.5718576	0936 Sep 04 02:15:49	001941	LTU	0.4101	1.1245	5.1S	26.8W	14	06	936 C.E.
	. . 3 .	11835	Feb 28 937 C.E. 01:45:22	2063355.5731735	0937 Feb 28 02:17:43	001939	LTU	0.3080	1.2612	6.4N	23.1W	13	12	937 C.E.
	. . . 4	11836	Aug 24 937 C.E. 15:33:03	2063533.1479508	0937 Aug 24 16:05:17	001936	LTU	−0.3243	1.2616	9.7S	126.8E	14	06	937 C.E.
144	1 . . .	11857	Feb 08 947 C.E. 07:17:04	2066987.8035213	0947 Feb 08 07:48:21	001875	LTU	0.3841	1.1542	13.8N	105.1W	13	12	947 C.E.
	. 2 . .	11858	Aug 04 947 C.E. 19:08:20	2067165.2974516	0947 Aug 04 19:39:31	001872	LTU	−0.3353	1.2115	16.4S	74.0E	15	05	947 C.E.
	. . 3 .	11859	Jan 28 948 C.E. 21:58:08	2067342.4153738	0948 Jan 28 22:29:18	001869	LTU	−0.3124	1.3010	16.5N	34.3E	14	11	948 C.E.
	. . . 4	11860	Jul 23 948 C.E. 19:40:07	2067519.3195264	0948 Jul 23 20:11:13	001866	LTU	0.4171	1.0574	18.7S	66.0E	14	05	948 C.E.
145	1 . . .	11898	Feb 18 965 C.E. 15:35:46	2073573.1498340	0965 Feb 18 16:05:11	001764	LTU	0.4066	1.1157	9.9N	129.9E	14	12	965 C.E.
	. 2 . .	11899	Aug 15 965 C.E. 02:00:18	2073750.5835366	0965 Aug 15 02:29:37	001761	LTU	−0.4052	1.0808	13.0S	29.4W	14	06	965 C.E.
	. . 3 .	11900	Feb 08 966 C.E. 06:34:21	2073927.7738536	0966 Feb 08 07:03:39	001758	LTU	−0.2941	1.3361	13.1N	94.7W	14	12	966 C.E.
	. . . 4	11901	Aug 04 966 C.E. 02:20:33	2074104.5975995	0966 Aug 04 02:49:48	001755	LTU	0.3407	1.1969	15.9S	34.3W	13	05	966 C.E.
146	1 . . .	11923	Jan 19 976 C.E. 21:07:34	2077560.3802598	0976 Jan 19 21:35:52	001699	LTU	−0.3822	1.1594	18.8N	46.7E	15	11	976 C.E.
	. 2 . .	11924	Jul 14 976 C.E. 03:12:27	2077736.6336460	0976 Jul 14 03:40:46	001697	LTU	0.3378	1.2314	20.7S	47.1W	13	05	976 C.E.
	. . 3 .	11925	Jan 08 977 C.E. 07:11:33	2077914.7996852	0977 Jan 08 07:39:45	001694	LTU	0.3253	1.2353	21.8N	105.0W	14	11	977 C.E.
	. . . 4	11926	Jul 03 977 C.E. 15:32:03	2078091.1472599	0977 Jul 03 16:00:16	001691	LTU	−0.4331	1.0825	23.0S	127.7E	13	04	977 C.E.
147	1 . . .	11965	Jan 30 994 C.E. 05:40:59	2084145.7367980	0994 Jan 30 06:07:34	001596	LTU	−0.3967	1.1327	15.8N	81.3W	14	11	994 C.E.
	. 2 . .	11966	Jul 25 994 C.E. 10:19:46	2084321.9303928	0994 Jul 25 10:46:21	001593	LTU	0.4086	1.1024	18.3S	153.9W	13	05	994 C.E.
	. . 3 .	11967	Jan 19 995 C.E. 15:29:17	2084500.1453332	0995 Jan 19 15:55:45	001590	LTU	0.3157	1.2522	19.4N	131.3E	15	11	995 C.E.
	. . . 4	11968	Jul 14 995 C.E. 22:58:20	2084676.4571711	0995 Jul 14 23:24:48	001587	LTU	−0.3608	1.2159	21.3S	16.5E	13	05	995 C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar 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	1.3385	17.5N	63.0W	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 13 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	Mar 10 1476 C.E. 18:21:25	2260236.2648769	1476 Mar 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 . .	13270	Aug 04 1533 C.E. 23:13:11	2281202.4674927	1533 Aug 04 23:15:57	000164	LTU	0.3998	1.0970	14.1S	12.6E	13 06 1533 C.E.
	. . 3 .	13271	Jan 30 1534 C.E. 01:31:45	2281380.5637107	1534 Jan 30 01:34:26	000163	LTU	0.3342	1.2421	15.3N	19.1W	15 12 1534 C.E.
	. . . 4	13272	Jul 25 1534 C.E. 06:04:13	2281556.7529297	1534 Jul 25 06:06:58	000163	LTU	−0.3755	1.1688	17.9S	89.7W	13 05 1534 C.E.
162	1 . . .	13337	Jan 20 1562 C.E. 13:41:15	2291598.0703095	1562 Jan 20 13:43:34	000141	LTU	0.4146	1.0567	18.1N	158.4E	14 11 1562 C.E.
	. 2 . .	13338	Jul 16 1562 C.E. 03:33:55	2291774.6485527	1562 Jul 16 03:36:16	000140	LTU	−0.2701	1.3898	19.9S	52.0W	13 05 1562 C.E.
	. . 3 .	13339	Jan 09 1563 C.E. 13:26:03	2291952.0597604	1563 Jan 09 13:28:23	000140	LTU	−0.2713	1.3084	20.2N	161.3E	13 11 1563 C.E.
	. . . 4	13340	Jul 05 1563 C.E. 20:44:02	2292129.3639108	1563 Jul 05 20:46:21	000140	LTU	0.4679	1.0245	21.2S	50.1E	14 04 1563 C.E.
163	1 . . .	13380	Jan 31 1580 C.E. 21:41:26	2298183.4037772	1580 Jan 31 21:43:34	000129	LTU	0.4310	1.0266	14.8N	38.6E	15 12 1580 C.E.
	. 2 . .	13381	Jul 26 1580 C.E. 11:07:46	2298359.9637271	1580 Jul 26 11:09:54	000128	LTU	−0.3386	1.2638	17.3S	165.5W	13 05 1580 C.E.
	. . 3 .	13382	Jan 19 1581 C.E. 21:22:45	2298537.3907952	1581 Jan 19 21:24:53	000128	LTU	−0.2589	1.3321	17.6N	42.8E	14 11 1581 C.E.
	. . . 4	13383	Jul 16 1581 C.E. 04:11:04	2298714.6743466	1581 Jul 16 04:13:10	000128	LTU	0.3965	1.1540	19.2S	61.5W	14 05 1581 C.E.
164	1 . . .	14204	Jun 04 1909 C.E. 01:28:41	2418461.5615834	1909 Jun 04 01:28:49	000010	LTU	0.3755	1.1581	22.0S	22.6W	15 03 1909 C.E.
	. 2 . .	14205	Nov 27 1909 C.E. 08:54:30	2418637.8711862	1909 Nov 27 08:54:42	000010	LTU	−0.2712	1.3661	20.8N	136.7W	13 09 1909 C.E.
	. . 3 .	14206	May 24 1910 C.E. 05:34:04	2418815.7319954	1910 May 24 05:34:15	000011	LTU	−0.3976	1.0952	20.9S	84.5W	14 03 1910 C.E.
	. . . 4	14207	Nov 17 1910 C.E. 00:20:40	2418992.5143551	1910 Nov 17 00:20:52	000012	LTU	0.4089	1.1247	19.1N	9.1W	14 09 1910 C.E.
165	1 . . .	14246	Jun 15 1927 C.E. 08:24:17	2425046.8501991	1927 Jun 15 08:24:40	000024	LTU	0.4543	1.0124	22.9S	126.0W	14 03 1927 C.E.
	. 2 . .	14247	Dec 08 1927 C.E. 17:34:47	2425223.2324843	1927 Dec 08 17:35:12	000024	LTU	−0.2796	1.3511	22.4N	94.3E	13 09 1927 C.E.
	. . 3 .	14248	Jun 03 1928 C.E. 12:09:33	2425401.0066313	1928 Jun 03 12:09:56	000024	LTU	−0.3175	1.2423	22.6S	177.0E	14 03 1928 C.E.
	. . . 4	14249	Nov 27 1928 C.E. 09:01:22	2425577.8759542	1928 Nov 27 09:01:47	000024	LTU	0.3953	1.1487	21.5N	138.6W	13 09 1928 C.E.
166	1 . . .	14296	Apr 13 1949 C.E. 04:10:56	2433019.6742606	1949 Apr 13 04:11:26	000029	LTU	0.2474	1.4252	8.7S	62.4W	14 01 1949 C.E.
	. 2 . .	14297	Oct 07 1949 C.E. 02:56:26	2433196.6225225	1949 Oct 07 02:56:55	000029	LTU	−0.3219	1.2237	5.1N	47.0W	14 07 1949 C.E.
	. . 3 .	14298	Apr 02 1950 C.E. 20:44:05	2433374.3639456	1950 Apr 02 20:44:33	000029	LTU	−0.4598	1.0330	5.4S	49.7E	15 01 1950 C.E.
	. . . 4	14299	Sep 26 1950 C.E. 04:16:42	2433550.6782638	1950 Sep 26 04:17:13	000029	LTU	0.4101	1.0785	1.3N	66.5W	13 07 1950 C.E.
167	1 . . .	14337	Apr 24 1967 C.E. 12:06:26	2439605.0044677	1967 Apr 24 12:07:05	000038	LTU	0.2972	1.3357	12.5S	178.1E	13 02 1967 C.E.
	. 2 . .	14338	Oct 18 1967 C.E. 10:15:10	2439781.9272002	1967 Oct 18 10:15:48	000038	LTU	−0.3653	1.1427	9.1N	157.3W	13 08 1967 C.E.
	. . 3 .	14339	Apr 13 1968 C.E. 04:47:22	2439959.6995573	1968 Apr 13 04:48:00	000039	LTU	−0.4173	1.1117	9.4S	71.9W	14 01 1968 C.E.
	. . . 4	14340	Oct 06 1968 C.E. 11:41:56	2440135.9874554	1968 Oct 06 11:42:37	000039	LTU	0.3605	1.1692	5.5N	178.6W	12 07 1968 C.E.
168	1 . . .	14379	May 04 1985 C.E. 19:56:24	2446190.3308276	1985 May 04 19:57:19	000055	LTU	0.3519	1.2370	15.8S	60.2E	14 02 1985 C.E.
	. 2 . .	14380	Oct 28 1985 C.E. 17:42:22	2446367.2377599	1985 Oct 28 17:43:18	000055	LTU	−0.4021	1.0737	12.9N	90.5E	14 08 1985 C.E.
	. . 3 .	14381	Apr 24 1986 C.E. 12:42:35	2446545.0295697	1986 Apr 24 12:43:29	000055	LTU	−0.3682	1.2023	13.2S	168.7E	14 02 1986 C.E.
	. . . 4	14382	Oct 17 1986 C.E. 19:17:59	2446721.3041579	1986 Oct 17 19:18:56	000055	LTU	0.3189	1.2455	9.6N	66.7E	13 08 1986 C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith Lon.	Hebrew Date on the Creation Calendar Day Month Year
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	14.2N	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	2478083.1689948	2072 Aug 28 16:05:42	000141	LTU	0.3563	1.1663	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	2622458.0540327	2467 Dec 11 13:39:51	001321	LTU	0.4214	1.0944	23.4N	158.6E	13 10 2467 C.E.
183	1 . . .	15568	May 28 2477 C.E. 01:27:15	2625913.5605908	2477 May 28 01:49:54	001359	LTU	−0.3653	1.1508	21.9S	22.3W	14 03 2477 C.E.
	. 2 . .	15569	Nov 21 2477 C.E. 04:17:48	2626090.6790292	2477 Nov 21 04:40:28	001361	LTU	0.2516	1.4102	20.2N	68.1W	14 09 2477 C.E.
	. . 3 .	15570	May 17 2478 C.E. 02:50:50	2626267.6186337	2478 May 17 03:13:35	001363	LTU	0.3882	1.1201	19.1S	43.4W	13 03 2478 C.E.
	. . . 4	15571	Nov 10 2478 C.E. 17:42:03	2626445.2375355	2478 Nov 10 18:04:46	001365	LTU	−0.4598	1.0075	16.9N	90.5E	15 09 2478 C.E.
184	1 . . .	15610	Jun 08 2495 C.E. 08:01:19	2632498.8342522	2495 Jun 08 08:25:15	001436	LTU	−0.4447	1.0061	23.3S	120.3W	14 03 2495 C.E.
	. 2 . .	15611	Dec 02 2495 C.E. 12:52:52	2632676.0367167	2495 Dec 02 13:16:49	001438	LTU	0.2671	1.3800	22.2N	164.0E	14 09 2495 C.E.
	. . 3 .	15612	May 27 2496 C.E. 09:45:48	2632852.9068029	2496 May 27 10:09:50	001440	LTU	0.3172	1.2531	21.2S	146.9W	13 03 2496 C.E.
	. . . 4	15613	Nov 21 2496 C.E. 01:54:57	2633030.5798235	2496 Nov 21 02:18:57	001442	LTU	−0.4399	1.0412	19.6N	32.3W	14 09 2496 C.E.
185	1 . . .	15634	May 08 2506 C.E. 16:53:41	2636485.2039491	2506 May 08 17:18:27	001484	LTU	0.3158	1.2877	16.9S	106.0E	14 02 2506 C.E.
	. 2 . .	15635	Nov 02 2506 C.E. 03:50:32	2636662.6600914	2506 Nov 02 04:15:16	001486	LTU	−0.2945	1.2773	14.3N	61.7W	14 08 2506 C.E.
	. . 3 .	15636	Apr 28 2507 C.E. 08:23:14	2636839.8494672	2507 Apr 28 08:48:02	001488	LTU	−0.4116	1.1262	14.4S	126.5W	13 02 2507 C.E.
	. . . 4	15637	Oct 22 2507 C.E. 03:36:00	2637016.6500024	2507 Oct 22 04:00:51	001490	LTU	0.4193	1.0456	11.2N	58.0W	13 08 2507 C.E.
186	1 . . .	15675	May 19 2524 C.E. 00:27:52	2643070.5193508	2524 May 19 00:53:57	001564	LTU	0.3745	1.1827	19.4S	7.5W	13 03 2524 C.E.
	. 2 . .	15676	Nov 12 2524 C.E. 11:26:46	2643247.9769229	2524 Nov 12 11:52:51	001566	LTU	−0.3271	1.2152	17.5N	175.6W	14 09 2524 C.E.
	. . 3 .	15677	May 08 2525 C.E. 16:16:15	2643425.1779559	2525 May 08 16:42:24	001568	LTU	−0.3589	1.2246	17.6S	115.1E	13 02 2525 C.E.
	. . . 4	15678	Nov 01 2525 C.E. 11:00:14	2643601.9584992	2525 Nov 01 11:26:25	001570	LTU	0.3790	1.1184	14.8N	169.4W	13 08 2525 C.E.
187	1 . . .	15716	May 30 2542 C.E. 07:57:49	2649655.8318216	2542 May 30 08:25:17	001646	LTU	0.4375	1.0695	21.3S	119.7W	13 03 2542 C.E.
	. 2 . .	15717	Nov 23 2542 C.E. 19:09:26	2649833.2982129	2542 Nov 23 19:36:53	001648	LTU	−0.3540	1.1636	20.1N	69.2E	14 09 2542 C.E.
	. . 3 .	15718	May 20 2543 C.E. 00:03:31	2650010.5024442	2543 May 20 00:31:01	001650	LTU	−0.3011	1.3319	20.2S	1.6W	14 03 2543 C.E.
	. . . 4	15719	Nov 12 2543 C.E. 18:33:11	2650187.2730434	2543 Nov 12 19:00:45	001653	LTU	0.3450	1.1798	18.0N	77.5E	14 09 2543 C.E.
188	1 . . .	15766	Mar 29 2564 C.E. 00:24:52	2657629.5172694	2564 Mar 29 00:53:59	001747	LTU	0.2895	1.2815	3.3S	5.0W	14 01 2564 C.E.
	. 2 . .	15767	Sep 21 2564 C.E. 23:03:59	2657806.4610958	2564 Sep 21 23:33:08	001750	LTU	−0.2733	1.3796	0.3S	12.4E	14 07 2564 C.E.
	. . 3 .	15768	Mar 18 2565 C.E. 00:30:02	2657983.5208538	2565 Mar 18 00:59:16	001752	LTU	−0.4202	1.0494	0.5N	5.8W	13 01 2565 C.E.
	. . . 4	15769	Sep 11 2565 C.E. 13:54:51	2658161.0797607	2565 Sep 11 14:24:04	001754	LTU	0.4699	1.0011	3.7S	150.3E	14 07 2565 C.E.
189	1 . . .	15783	May 10 2571 C.E. 23:39:17	2660228.4856148	2571 May 11 00:08:58	001782	LTU	−0.3499	1.2256	18.2S	4.4E	15 02 2571 C.E.
	. 2 . .	15784	Nov 03 2571 C.E. 02:31:10	2660404.6049773	2571 Nov 03 03:00:56	001784	LTU	0.4286	1.0592	15.4N	42.1W	13 08 2571 C.E.
	. . 3 .	15785	Apr 29 2572 C.E. 09:48:35	2660582.9087364	2572 Apr 29 10:18:19	001786	LTU	0.4106	1.0855	14.4S	147.6W	14 02 2572 C.E.
	. . . 4	15786	Oct 22 2572 C.E. 14:54:57	2660759.1214979	2572 Oct 22 15:24:47	001788	LTU	−0.3012	1.3192	11.1N	132.4E	12 08 2572 C.E.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.

7000 Year Canon of Total Lunar Eclipse Tetrads

www.torahcalendar.com

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 Lat.	Greatest in Zenith 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	1.1169	3.7S	120.8W	13 01 2583 C.E.
	. . . 4	15810	Sep 22 2583 C.E. 21:27:17	2664746.3939516	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	2666813.8019070	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.

Copyright © 2014, 2015, 2016, 2017 www.torahcalendar.com, All Rights Reserved.www.torahcalendar.com grants the right for individuals to make copies of any of the original materials presented at TorahCalendar.com provided that such materials are not altered in any way, retain all unaltered Copyright notices and are never used or distributed for any form of pecuniary gain or profit.