

# ANNULAR SOLAR ECLIPSE OF 2012 MAY 20

**TABLE 7 – MAPPING COORDINATES FOR THE ANNULAR PATH (EXTENDED)**

$\Delta T = 66.7 \text{ s}$

Longitude	Latitude of:			Circumstances on Central Line				
	Northern Limit	Southern Limit	Central Line	Universal Time h m s	Sun Alt °	Sun Az. °	Path Width km	Central Durat.
125°00.0'W	43°19.39'N	40°26.58'N	41°52.59'N	01:25:54	22.6	277.5	289.8	04m48.0s
124°45.0'W	43°14.31'N	40°21.20'N	41°47.36'N	01:26:08	22.3	277.7	290.2	04m47.7s
124°30.0'W	43°09.21'N	40°15.82'N	41°42.11'N	01:26:21	22.1	277.9	290.6	04m47.4s
124°15.0'W	43°04.09'N	40°10.41'N	41°36.85'N	01:26:34	21.9	278.2	291.0	04m47.0s
124°00.0'W	42°58.96'N	40°04.99'N	41°31.57'N	01:26:46	21.6	278.4	291.3	04m46.7s
123°45.0'W	42°53.81'N	39°59.56'N	41°26.28'N	01:26:59	21.4	278.6	291.7	04m46.4s
123°30.0'W	42°48.65'N	39°54.11'N	41°20.97'N	01:27:12	21.2	278.8	292.1	04m46.0s
123°15.0'W	42°43.47'N	39°48.65'N	41°15.65'N	01:27:24	20.9	279.0	292.5	04m45.7s
123°00.0'W	42°38.27'N	39°43.17'N	41°10.31'N	01:27:36	20.7	279.3	292.9	04m45.4s
122°45.0'W	42°33.06'N	39°37.68'N	41°04.96'N	01:27:49	20.4	279.5	293.3	04m45.1s
122°30.0'W	42°27.84'N	39°32.17'N	40°59.59'N	01:28:01	20.2	279.7	293.7	04m44.8s
122°15.0'W	42°22.60'N	39°26.66'N	40°54.21'N	01:28:13	20.0	279.9	294.1	04m44.4s
122°00.0'W	42°17.34'N	39°21.13'N	40°48.82'N	01:28:24	19.7	280.1	294.5	04m44.1s
121°45.0'W	42°12.07'N	39°15.59'N	40°43.41'N	01:28:36	19.5	280.3	294.9	04m43.8s
121°30.0'W	42°06.79'N	39°10.03'N	40°37.99'N	01:28:47	19.3	280.5	295.3	04m43.5s
121°15.0'W	42°01.49'N	39°04.46'N	40°32.55'N	01:28:59	19.0	280.8	295.6	04m43.2s
121°00.0'W	41°56.18'N	38°58.88'N	40°27.11'N	01:29:10	18.8	281.0	296.0	04m42.8s
120°45.0'W	41°50.85'N	38°53.29'N	40°21.65'N	01:29:21	18.5	281.2	296.4	04m42.5s
120°30.0'W	41°45.52'N	38°47.69'N	40°16.18'N	01:29:32	18.3	281.4	296.8	04m42.2s
120°15.0'W	41°40.16'N	38°42.08'N	40°10.69'N	01:29:43	18.1	281.6	297.2	04m41.9s
120°00.0'W	41°34.80'N	38°36.46'N	40°05.20'N	01:29:53	17.8	281.8	297.6	04m41.6s
119°45.0'W	41°29.43'N	38°30.82'N	39°59.69'N	01:30:04	17.6	282.0	298.0	04m41.3s
119°30.0'W	41°24.04'N	38°25.18'N	39°54.17'N	01:30:14	17.3	282.2	298.3	04m41.0s
119°15.0'W	41°18.64'N	38°19.52'N	39°48.64'N	01:30:24	17.1	282.4	298.7	04m40.7s
119°00.0'W	41°13.23'N	38°13.86'N	39°43.10'N	01:30:34	16.9	282.6	299.1	04m40.4s
118°45.0'W	41°07.80'N	38°08.19'N	39°37.55'N	01:30:44	16.6	282.8	299.5	04m40.0s
118°30.0'W	41°02.37'N	38°02.50'N	39°31.99'N	01:30:54	16.4	283.0	299.9	04m39.7s
118°15.0'W	40°56.92'N	37°56.81'N	39°26.42'N	01:31:04	16.2	283.2	300.2	04m39.4s
118°00.0'W	40°51.47'N	37°51.11'N	39°20.84'N	01:31:13	15.9	283.4	300.6	04m39.1s
117°45.0'W	40°46.00'N	37°45.40'N	39°15.25'N	01:31:23	15.7	283.6	301.0	04m38.8s
117°30.0'W	40°40.52'N	37°39.69'N	39°09.65'N	01:31:32	15.4	283.8	301.4	04m38.5s
117°15.0'W	40°35.04'N	37°33.96'N	39°04.04'N	01:31:41	15.2	284.0	301.8	04m38.2s
117°00.0'W	40°29.54'N	37°28.23'N	38°58.43'N	01:31:50	15.0	284.1	302.1	04m37.9s
116°45.0'W	40°24.03'N	37°22.49'N	38°52.80'N	01:31:59	14.7	284.3	302.5	04m37.6s
116°30.0'W	40°18.52'N	37°16.74'N	38°47.17'N	01:32:07	14.5	284.5	302.9	04m37.3s
116°15.0'W	40°12.99'N	37°10.99'N	38°41.52'N	01:32:16	14.2	284.7	303.3	04m37.0s
116°00.0'W	40°07.46'N	37°05.22'N	38°35.87'N	01:32:24	14.0	284.9	303.6	04m36.7s
115°45.0'W	40°01.92'N	36°59.46'N	38°30.22'N	01:32:33	13.8	285.1	304.0	04m36.4s
115°30.0'W	39°56.37'N	36°53.68'N	38°24.55'N	01:32:41	13.5	285.3	304.4	04m36.1s
115°15.0'W	39°50.81'N	36°47.90'N	38°18.88'N	01:32:49	13.3	285.4	304.7	04m35.9s
115°00.0'W	39°45.24'N	36°42.12'N	38°13.20'N	01:32:56	13.0	285.6	305.1	04m35.6s
114°45.0'W	39°39.67'N	36°36.33'N	38°07.52'N	01:33:04	12.8	285.8	305.5	04m35.3s
114°30.0'W	39°34.09'N	36°30.53'N	38°01.83'N	01:33:12	12.6	286.0	305.8	04m35.0s
114°15.0'W	39°28.50'N	36°24.73'N	37°56.13'N	01:33:19	12.3	286.2	306.2	04m34.7s
114°00.0'W	39°22.90'N	36°18.92'N	37°50.43'N	01:33:26	12.1	286.4	306.6	04m34.4s

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$\Delta T = 66.7 \text{ s}$

Longitude	Latitude of:			Circumstances on Central Line				
	Northern Limit	Southern Limit	Central Line	Universal Time h m s	Sun Alt °	Sun Az. °	Path Width km	Central Durat.
113°45.0'W	39°17.30'N	36°13.11'N	37°44.72'N	01:33:33	11.8	286.5	306.9	04m34.1s
113°30.0'W	39°11.69'N	36°07.29'N	37°39.00'N	01:33:40	11.6	286.7	307.3	04m33.8s
113°15.0'W	39°06.08'N	36°01.48'N	37°33.29'N	01:33:47	11.4	286.9	307.6	04m33.6s
113°00.0'W	39°00.46'N	35°55.65'N	37°27.56'N	01:33:54	11.1	287.1	308.0	04m33.3s
112°45.0'W	38°54.83'N	35°49.82'N	37°21.83'N	01:34:00	10.9	287.2	308.3	04m33.0s
112°30.0'W	38°49.20'N	35°43.99'N	37°16.10'N	01:34:07	10.7	287.4	308.7	04m32.7s
112°15.0'W	38°43.56'N	35°38.16'N	37°10.36'N	01:34:13	10.4	287.6	309.1	04m32.4s
112°00.0'W	38°37.92'N	35°32.32'N	37°04.62'N	01:34:19	10.2	287.7	309.4	04m32.2s
111°45.0'W	38°32.27'N	35°26.48'N	36°58.87'N	01:34:25	9.9	287.9	309.8	04m31.9s
111°30.0'W	38°26.62'N	35°20.64'N	36°53.13'N	01:34:31	9.7	288.1	310.1	04m31.6s
111°15.0'W	38°20.97'N	35°14.80'N	36°47.37'N	01:34:36	9.5	288.3	310.4	04m31.3s
111°00.0'W	38°15.30'N	35°08.95'N	36°41.62'N	01:34:42	9.2	288.4	310.8	04m31.1s
110°45.0'W	38°09.64'N	35°03.10'N	36°35.86'N	01:34:47	9.0	288.6	311.1	04m30.8s
110°30.0'W	38°03.97'N	34°57.25'N	36°30.10'N	01:34:52	8.8	288.7	311.5	04m30.5s
110°15.0'W	37°58.30'N	34°51.40'N	36°24.33'N	01:34:57	8.5	288.9	311.8	04m30.2s
110°00.0'W	37°52.63'N	34°45.55'N	36°18.57'N	01:35:02	8.3	289.1	312.2	04m30.0s
109°45.0'W	37°46.95'N	34°39.70'N	36°12.80'N	01:35:07	8.0	289.2	312.5	04m29.7s
109°30.0'W	37°41.27'N	34°33.84'N	36°07.03'N	01:35:12	7.8	289.4	312.8	04m29.4s
109°15.0'W	37°35.58'N	34°27.99'N	36°01.26'N	01:35:16	7.6	289.6	313.2	04m29.2s
109°00.0'W	37°29.90'N	34°22.13'N	35°55.49'N	01:35:21	7.3	289.7	313.5	04m28.9s
108°45.0'W	37°24.21'N	34°16.28'N	35°49.71'N	01:35:25	7.1	289.9	313.8	04m28.7s
108°30.0'W	37°18.52'N	34°10.42'N	35°43.94'N	01:35:29	6.9	290.0	314.2	04m28.4s
108°15.0'W	37°12.83'N	34°04.56'N	35°38.16'N	01:35:33	6.6	290.2	314.5	04m28.1s
108°00.0'W	37°07.13'N	33°58.71'N	35°32.38'N	01:35:37	6.4	290.4	314.8	04m27.9s
107°45.0'W	37°01.44'N	33°52.85'N	35°26.61'N	01:35:41	6.1	290.5	315.2	04m27.6s
107°30.0'W	36°55.74'N	33°47.00'N	35°20.83'N	01:35:44	5.9	290.7	315.5	04m27.4s
107°15.0'W	36°50.04'N	33°41.15'N	35°15.05'N	01:35:47	5.7	290.8	315.8	04m27.1s
107°00.0'W	36°44.34'N	33°35.30'N	35°09.28'N	01:35:51	5.4	291.0	316.1	04m26.9s
106°45.0'W	36°38.65'N	33°29.44'N	35°03.50'N	01:35:54	5.2	291.1	316.4	04m26.6s
106°30.0'W	36°32.95'N	33°23.60'N	34°57.72'N	01:35:57	5.0	291.3	316.8	04m26.4s
106°15.0'W	36°27.25'N	33°17.75'N	34°51.95'N	01:36:00	4.7	291.4	317.1	04m26.1s
106°00.0'W	36°21.55'N	33°11.90'N	34°46.17'N	01:36:02	4.5	291.6	317.4	04m25.9s
105°45.0'W	36°15.85'N	33°06.06'N	34°40.40'N	01:36:05	4.3	291.7	317.7	04m25.6s
105°30.0'W	36°10.15'N	33°00.22'N	34°34.63'N	01:36:07	4.0	291.9	318.0	04m25.4s
105°15.0'W	36°04.45'N	32°54.38'N	34°28.86'N	01:36:09	3.8	292.0	318.3	04m25.1s
105°00.0'W	35°58.75'N	32°48.54'N	34°23.09'N	01:36:12	3.6	292.2	318.6	04m24.9s
104°45.0'W	35°53.05'N	32°42.71'N	34°17.32'N	01:36:14	3.3	292.3	318.9	04m24.6s
104°30.0'W	35°47.36'N	32°36.88'N	34°11.55'N	01:36:15	3.1	292.5	319.2	04m24.4s
104°15.0'W	35°41.66'N	32°31.05'N	34°05.79'N	01:36:17	2.9	292.6	319.5	04m24.2s
104°00.0'W	35°35.97'N	32°25.23'N	34°00.03'N	01:36:19	2.6	292.7	319.8	04m23.9s
103°45.0'W	35°30.28'N	32°19.41'N	33°54.27'N	01:36:20	2.4	292.9	320.1	04m23.7s
103°30.0'W	35°24.58'N	32°13.59'N	33°48.52'N	01:36:22	2.2	293.0	320.4	04m23.4s
103°15.0'W	35°18.90'N	32°07.78'N	33°42.76'N	01:36:23	1.9	293.2	320.7	04m23.2s
103°00.0'W	35°13.21'N	32°01.97'N	33°37.01'N	01:36:24	1.7	293.3	321.0	04m23.0s
102°45.0'W	35°07.53'N	31°56.16'N	33°31.27'N	01:36:25	1.5	293.5	321.3	04m22.7s
102°30.0'W	35°01.84'N	31°50.36'N	33°25.53'N	01:36:25	1.2	293.6	321.6	04m22.5s
102°15.0'W	34°56.17'N		33°19.79'N	01:36:26	1.0	293.7	321.9	04m22.3s
102°00.0'W	34°50.49'N		33°14.05'N	01:36:27	0.8	293.9	322.2	04m22.0s
101°45.0'W	34°44.82'N		33°08.32'N	01:36:27	0.5	294.0	322.5	04m21.8s
101°30.0'W	34°39.15'N		33°02.59'N	01:36:27	0.3	294.1	322.7	04m21.6s
101°15.0'W	34°33.48'N		32°56.87'N	01:36:27	0.1	294.3	323.0	04m21.4s