TABLE 16
LOCAL CIRCUMSTANCES FOR CHINA
TOTAL SOLAR ECLIPSE OF 2008 AUGUST 01

Location Name	Latitude	Longitude	Elev.	First Contact				Second Contact			Third Contact			Fourth Contact				Maximum Eclipse					Eclip.	Eclip.	Umbral	Umbra
				U.T.	P	V	Alt	U.T.	P	V	U.T.	P	V	U.T.	P	V	Alt	U.T.	P	V	Alt	Azm	Mag.	Obs.	Depth	Durat
			m	h m s	°	°	°	h m s	°	°	h m s	°	°	h m s	°	°	°	h m s	°	°	°	°				
CHINA																										
Altay	47°52'N	088°07'E	—	09:57:54.6	300	256	36	10:59:25.9	167	122	11:00:51.0	249	204	11:58:02.2	117	72	16	11:00:08.5	28	343	25	269	1.037	1.000	0.242	01m25s
Anshan	41°08'N	122°59'E	—	10:14:15.1	287	237	8	—			—			—				11:02 Set	—	—	0	294	0.854	0.822		
Baiyin	36°47'N	104°07'E	—	10:22:45.7	298	242	20	11:17:59.4	159	105	11:19:14.2	254	200	—				11:18:36.9	26	332	9	286	1.032	1.000	0.325	01m15s
Baotou	40°40'N	109°59'E	—	10:16:29.9	292	240	17	—			—			—				11:11:09.2	206	156	7	288	0.941	0.933		
Beijing	39°55'N	116°25'E	—	10:17:15.1	290	238	12	—			—			—				11:10:02.7	205	156	3	291	0.916	0.901		
Binxian	35°00'N	108°08'E	—	10:25:40.8	298	240	16	11:19:28.8	155	100	11:20:42.8	257	202	—				11:20:05.9	26	331	5	288	1.031	1.000	0.371	01m14s
Changsha	28°12'N	112°58'E	49	10:35:20.0	301	238	8	—			—			—				11:16 Set	—	—	0	291	0.768	0.713		
Chengdu	30°39'N	104°04'E	—	10:32:57.1	303	241	17	—			—			—				11:27:34.2	26	327	6	288	0.913	0.898		
Chongqing	29°34'N	106°35'E	261	10:34:28.4	303	240	14	—			—			—				11:28:10.9	26	326	3	289	0.912	0.896		
Datong	46°03'N	124°50'E	—	10:06:37.7	283	239	10	—			—			—				10:57:48.7	204	162	2	295	0.819	0.778		
Fushun	41°52'N	123°53'E	—	10:12:58.9	286	237	8	—			—			—				11:00 Set	—	—	0	295	0.840	0.804		
Guangzhou	23°06'N	113°16'E	18	10:42:39.9	307	239	5	—			—			—				11:06 Set	—	—	0	290	0.445	0.334		
Guiyang	26°35'N	106°43'E	—	10:39:10.3	306	240	12	—			—			—				11:32:01.1	26	324	1	290	0.860	0.830		
Hami	42°48'N	093°27'E	—	10:09:51.6	300	249	31	—			—			12:05:37.4	116	68	10	11:09:53.6	28	338	20	276	0.998	0.999		
Handan	36°37'N	114°29'E	—	10:22:31.6	293	238	12	—			—			—				11:15:27.6	205	153	2	291	0.967	0.966		
Hangzhou	30°15'N	120°10'E	—	10:30:15.4	296	237	4	—			—			—				10:50 Set	—	—	0	291	0.397	0.284		
Harbin	45°45'N	126°41'E	145	10:06:40.8	283	238	8	—			—			—				10:57:24.6	203	162	0	296	0.816	0.774		
Heze	35°17'N	115°27'E	—	10:24:21.7	294	238	10	—			—			—				11:16:52.2	205	152	1	292	0.981	0.982		
Huainan	32°40'N	117°00'E	—	10:27:50.0	295	237	8	—			—			—				11:08 Set	—	—	0	292	0.773	0.719		
Jilin	43°51'N	126°33'E	—	10:09:28.2	284	238	7	—			—			—				10:54 Set	—	—	0	295	0.797	0.750		
Jinan	36°40'N	116°57'E	—	10:22:02.1	292	238	10	—			—			—				11:14:20.2	205	153	1	293	0.955	0.950		
Jiuquan	39°45'N	098°34'E	—	10:16:53.3	299	245	26	11:14:18.5	169	116	11:15:27.0	245	193	12:08:48.0	115	66	5	11:14:52.9	27	335	15	281	1.034	1.000	0.214	01m08s
Kunming	25°05'N	102°40'E	1893	10:42:16.7	310	242	15	—			—			—				11:35:31.4	27	322	3	288	0.806	0.762		
Laiwu	36°12'N	117°42'E	—	10:22:34.1	292	237	9	—			—			—				11:12 Set	—	—	0	293	0.933	0.922		
Lanzhou	36°03'N	103°41'E	1556	10:23:59.2	299	242	20	—			—			—				11:19:50.5	27	332	9	286	0.993	0.995		
Lüda	38°53'N	121°35'E	—	10:17:49.0	289	237	8	—			—			—				11:02 Set	—	—	0	293	0.833	0.795		
Luohe	33°35'N	114°01'E	—	10:27:09.2	296	238	10	11:19:03.2	107	52	11:20:30.1	303	248	—				11:19:46.8	205	150	1	292	1.029	1.000	0.862	01m27s
Luoyang	34°41'N	112°28'E	—	10:25:45.0	296	238	12	11:18:24.3	71	17	11:19:29.3	339	285	—				11:18:56.9	205	151	2	291	1.030	1.000	0.307	01m05s
Nanjing	32°03'N	118°47'E	—	10:28:13.0	295	237	6	—			—			—				10:59 Set	—	—	0	291	0.607	0.517		
Nanyang	33°00'N	112°32'E	—	10:28:17.5	297	238	11	11:21:02.7	193	138	11:21:21.3	217	162	—				11:21:12.1	25	330	1	291	1.029	1.000	0.022	00m19s
Pingdingshan	33°45'N	113°17'E	—	10:27:02.1	296	238	11	11:19:08.2	112	57	11:20:36.7	298	244	—				11:19:52.5	205	150	1	291	1.029	1.000	0.944	01m28s
Pingliang	35°27'N	107°10'E	—	10:24:59.8	298	240	17	11:19:06.5	152	98	11:20:24.3	259	205	—				11:19:45.5	26	331	6	288	1.031	1.000	0.405	01m18s
Pingxiang	27°38'N	113°50'E	—	10:35:55.5	301	238	7	—			—			—				11:11 Set	—	—	0	290	0.676	0.600		
Puyang	35°42'N	114°59'E	—	10:23:49.5	294	238	11	—			—			—				11:16:30.6	205	152	1	292	0.977	0.978		
Qingdao	36°06'N	120°19'E	—	10:22:05.8	291	237	7	—			—			—				11:01 Set	—	—	0	293	0.754	0.697		
Qiqihar	47°19'N	123°55'E	—	10:04:52.5	283	239	11	—			—			—				10:56:22.4	204	163	3	294	0.812	0.769		
Sanmenxia	34°45'N	111°05'E	—	10:25:49.4	296	239	13	11:18:39.5	101	46	11:20:08.2	310	256	—				11:19:24.0	205	151	3	290	1.030	1.000	0.746	01m29s
Shanghai	31°14'N	121°28'E	5	10:28:28.1	295	237	4	—			—			—				10:47 Set	—	—	0	291	0.366	0.252		
Shenyang	41°48'N	123°27'E	42	10:13:10.8	286	238	8	—			—			—				11:01 Set	—	—	0	295	0.853	0.821		
Shijiazhuang	38°03'N	114°28'E	—	10:20:20.9	292	238	13	—			—			—				11:13:27.7	205	154	3	291	0.949	0.942		

TABLE 16 - CONTINUED
LOCAL CIRCUMSTANCES FOR CHINA
TOTAL SOLAR ECLIPSE OF 2008 AUGUST 01

Location Name	Latitude	Longitude	Elev.	First Contact				Second Contact			Third Contact			Fourth Contact				Maximum Eclipse					Eclip.	Eclip.	Umbral	Umbra
				U.T.	P	V	Alt	U.T.	P	V	U.T.	P	V	U.T.	P	V	Alt	U.T.	P	V	Alt	Azm	Mag.	Obs.	Depth	Durat
			m	h m s	°	°	°	h m s	°	°	h m s	°	°	h m s	°	°	°	h m s	°	°	°	°				
CHINA																										
Suining	30°31'N	105°34'E	—	10:33:03.5	303	240	15	—			—			—				11:27:15.4	26	327	4	288	0.921	0.907		
Tai'an	36°12'N	117°07'E	—	10:22:41.3	293	237	10	—			—			—				11:14 Set	—	—	0	293	0.958	0.954		
Taiyuan	37°55'N	112°30'E	—	10:20:45.9	293	239	14	—			—			—				11:14:23.7	205	154	4	290	0.960	0.957		
Tangshan	39°38'N	118°11'E	—	10:17:24.9	290	238	11	—			—			—				11:09:43.1	204	156	1	293	0.912	0.895		
Tianjin	39°08'N	117°12'E	4	10:18:19.4	290	238	11	—			—			—				11:10:49.9	205	155	2	292	0.922	0.909		
Tongchuan	35°01'N	109°01'E	—	10:25:35.9	297	239	15	11:19:01.1	131	77	11:20:31.8	280	225	—				11:19:46.5	26	331	5	289	1.030	1.000	0.729	01m31s
Urumqi	43°48'N	087°35'E	906	10:05:32.8	303	254	36	—			—			12:04:59.5	114	66	14	11:07:34.1	29	339	25	272	0.957	0.954		
Weifang	36°42'N	119°04'E	—	10:21:32.6	291	237	8	—			—			—				11:07 Set	—	—	0	293	0.875	0.848		
Weinan	34°29'N	109°29'E	—	10:26:24.1	297	239	14	11:19:44.5	152	97	11:20:59.1	259	204	—				11:20:21.9	26	331	4	289	1.030	1.000	0.400	01m15s
Wuhan	30°36'N	114°17'E	23	10:31:29.6	298	238	9	—			—			—				11:15 Set	—	—	0	291	0.831	0.793		
Xi'an (Sian)	34°15'N	108°52'E	—	10:26:49.4	298	239	15	—			—			—				11:20:54.8	26	330	4	289	0.999	1.000		
Xianyang	34°22'N	108°42'E	—	10:26:39.1	298	239	15	—			—			—				11:20:48.4	26	330	4	289	1.000	1.000		
Xiaogan	30°55'N	113°54'E	—	10:31:07.2	298	238	9	—			—			—				11:17 Set	—	—	0	291	0.877	0.851		
Xintai	35°54'N	117°44'E	—	10:22:59.9	293	237	9	—			—			—				11:11 Set	—	—	0	292	0.917	0.903		
Xuchang	34°03'N	113°49'E	—	10:26:29.6	296	238	11	11:18:37.4	82	28	11:19:51.5	328	274	—				11:19:14.6	205	151	1	291	1.029	1.000	0.456	01m14s
Yancheng	33°24'N	120°09'E	—	10:25:55.8	294	237	6	—			—			—				10:56 Set	—	—	0	292	0.595	0.503		
Yiwu	43°15'N	094°45'E	—	10:09:27.6	299	249	30	11:08:09.6	129	80	11:10:05.7	286	236	12:04:35.5	117	69	9	11:09:07.8	28	338	19	277	1.035	1.000	0.797	01m56s
Yulin	22°36'N	110°07'E	—	10:44:27.4	309	240	7	—			—			—				11:18 Set	—	—	0	290	0.611	0.522		
Yumen	39°56'N	097°51'E	—	10:16:24.3	299	246	26	11:14:28.3	196	144	11:14:49.4	218	166	12:08:46.6	115	66	5	11:14:38.9	27	335	15	281	1.034	1.000	0.018	00m21s
Yuncheng	35°00'N	110°59'E	—	10:25:26.9	296	239	14	11:18:24.2	88	34	11:19:46.2	323	268	—				11:19:05.3	205	151	3	290	1.030	1.000	0.545	01m22s
Zaozhuang	34°53'N	117°34'E	—	10:24:30.5	293	237	9	—			—			—				11:10 Set	—	—	0	292	0.872	0.844		
Zhangye	38°56'N	100°27'E	—	10:18:40.9	299	244	24	11:15:12.8	150	97	11:16:43.3	264	211	12:09:17.3	115	65	3	11:15:58.2	27	334	13	283	1.033	1.000	0.457	01m30s
Zhengzhou	34°48'N	113°39'E	—	10:25:23.7	295	238	11	—			—			—				11:18:18.0	205	151	1	291	0.997	0.998		
Zhumadian	32°58'N	114°03'E	—	10:28:03.8	296	238	10	—			—			—				11:20 Set	—	—	0	292	0.999	1.000		
Zibo	36°47'N	118°01'E	—	10:21:39.1	292	237	9	—			—			—				11:12 Set	—	—	0	293	0.937	0.927		