TABLE 11
LOCAL CIRCUMSTANCES FOR CHINA — 2
TOTAL SOLAR ECLIPSE OF 2009 JULY 22

Location Name	Latitude	Longitude	Elev.	First Contact				Second Contact			Third Contact			Fourth Contact				Maximum Eclipse					Eclip.	Eclip.	Umbral	Umbral
				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																										
Nanning	22°48'N	108°20'E	—	00:08:13.5	297	11	24	—			—			02:32:27.6	93	172	57	01:15:48.7	15	92	40	82	0.780	0.737		
Neijiang	29°35'N	105°03'E	—	00:07:01.8	283	349	23	01:11:11.0	126	194	01:15:44.1	262	330	02:28:00.7	105	173	53	01:13:27.0	14	82	37	86	1.072	1.000	0.623	04m33s
Ningbo	29°52'N	121°31'E	—	00:23:06.0	289	356	40	01:37:22.5	152	219	01:41:43.9	247	313	03:02:42.0	111	162	74	01:39:32.8	20	86	57	99	1.077	1.000	0.320	04m21s
Pingdingshan	33°45'N	113°17'E	—	00:15:56.7	279	342	32	—			—			02:43:06.8	115	170	62	01:25:57.4	197	259	47	96	0.935	0.934		
Pingxiang	27°38'N	113°50'E	—	00:13:30.5	291	360	31	—			—			02:45:50.6	103	172	65	01:25:28.0	17	88	47	89	0.930	0.928		
Puyang	35°42'N	114°59'E	—	00:19:10.3	276	336	34	—			—			02:45:20.3	119	169	63	01:29:00.9	197	256	48	100	0.871	0.853		
Qingdao	36°06'N	120°19'E	—	00:25:05.0	277	336	40	—			—			02:55:11.0	121	162	68	01:37:18.9	199	255	54	106	0.855	0.833		
Qinzhou	21°59'N	108°36'E	—	00:08:40.4	299	13	25	—			—			02:32:36.7	91	172	58	01:16:05.9	15	93	40	81	0.751	0.701		
Qiqihar	47°19'N	123°55'E	—	00:44:53.3	256	299	44	—			—			02:46:01.8	144	166	60	01:44:15.5	200	236	53	126	0.476	0.372		
Rizhao	35°27'N	119°29'E	—	00:23:34.4	278	338	39	—			—			02:54:09.5	120	164	68	01:35:53.6	199	256	53	104	0.878	0.863		
Shanghai	31°14'N	121°28'E	5	00:23:26.3	286	352	40	01:36:48.4	77	142	01:41:48.5	321	25	03:01:38.1	113	161	73	01:39:18.0	199	263	57	101	1.077	1.000	0.470	05m00s
Shaoxing	30°00'N	120°35'E	—	00:21:54.0	288	356	39	01:35:25.9	148	214	01:40:03.2	251	317	03:00:29.1	111	164	73	01:37:44.1	19	86	56	98	1.077	1.000	0.381	04m37s
Shashi	30°19'N	112°14'E	—	00:12:49.9	285	351	30	01:20:55.2	127	194	01:25:57.0	266	333	02:42:02.6	108	171	62	01:23:25.6	16	83	45	91	1.074	1.000	0.653	05m02s
Shenyang	41°48'N	123°27'E	42	00:35:12.2	266	318	43	—			—			02:53:58.3	133	160	65	01:42:44.3	200	245	55	118	0.657	0.584		
Shijiazhuang	38°03'N	114°28'E	—	00:21:11.5	272	329	34	—			—			02:42:48.1	123	170	61	01:29:03.7	197	253	47	102	0.792	0.752		
Shiyan	30°22'N	104°27'E	—	00:07:08.2	282	346	22	01:10:54.5	79	146	01:15:18.9	309	16	02:27:01.9	107	173	52	01:13:06.2	194	261	36	86	1.072	1.000	0.574	04m24s
Shuicheng	26°41'N	104°50'E	—	00:05:41.6	288	357	22	—			—			02:26:57.5	100	172	53	01:12:02.2	14	85	36	84	0.926	0.922		
Suining	30°31'N	105°34'E	—	00:07:53.4	282	347	23	01:12:14.4	79	146	01:16:43.2	309	16	02:29:02.5	107	173	54	01:14:28.3	194	261	38	87	1.073	1.000	0.580	04m29s
Suixian	31°42'N	113°20'E	—	00:14:34.7	283	348	32	01:24:05.9	47	112	01:26:49.4	346	51	02:43:58.6	111	171	63	01:25:27.3	197	262	47	93	1.075	1.000	0.136	02m43s
Suzhou	31°18'N	120°37'E	—	00:22:22.1	286	352	39	01:35:15.6	76	141	01:40:10.8	322	26	02:59:43.0	113	163	72	01:37:42.8	199	263	55	100	1.077	1.000	0.460	04m55s
Tai'an	36°12'N	117°07'E	—	00:21:42.8	276	335	36	—			—			02:49:00.8	120	167	65	01:32:18.6	198	255	51	102	0.855	0.832		
Taiyuan	37°55'N	112°30'E	—	00:19:24.5	271	329	32	—			—			02:39:27.5	122	171	59	01:26:24.7	197	253	45	100	0.794	0.755		
Tangshan	39°38'N	118°11'E	—	00:26:35.1	270	325	38	—			—			02:47:53.1	127	166	63	01:34:43.1	198	250	51	108	0.739	0.685		
Tianjin	39°08'N	117°12'E	4	00:24:59.7	270	326	37	—			—			02:46:40.6	126	167	63	01:33:11.5	198	251	50	106	0.756	0.707		
Tianshui	34°30'N	105°58'E	—	00:11:18.1	275	336	25	—			—			02:29:31.0	115	174	53	01:16:51.9	195	256	39	91	0.890	0.877		
Tongling	30°53'N	117°46'E	—	00:18:45.6	286	352	36	01:29:45.0	104	170	01:35:25.8	292	358	02:53:42.4	111	167	69	01:32:34.8	198	264	52	96	1.076	1.000	0.928	05m41s
Wanxian	30°52'N	108°22'E	—	00:09:58.6	283	347	26	01:15:50.2	79	146	01:20:25.9	311	17	02:34:15.7	108	173	57	01:18:07.5	195	262	41	89	1.073	1.000	0.563	04m36s
Weifang	36°42'N	119°04'E	—	00:24:14.3	275	334	39	—			—			02:52:15.9	122	164	66	01:35:24.2	199	254	53	105	0.836	0.809		
Wuhan	30°36'N	114°17'E	23	00:14:54.6	285	351	32	01:23:59.9	117	183	01:29:24.5	277	344	02:46:17.4	109	170	65	01:26:41.6	17	84	48	93	1.075	1.000	0.834	05m25s
Wuhu	31°21'N	118°22'E	—	00:19:39.3	285	351	37	01:31:11.8	78	143	01:36:08.4	318	23	02:54:46.1	112	166	69	01:33:39.6	198	263	53	97	1.076	1.000	0.498	04m57s
Wulumuqi	43°48'N	087°35'E	906	00:21:23.1	250	299	15	—			—			02:03:47.2	135	185	33	01:10:48.8	192	243	24	84	0.491	0.389		
Wuwei	31°18'N	117°54'E	—	00:19:05.6	285	351	36	01:30:18.4	81	147	01:35:23.6	315	20	02:53:47.0	112	167	69	01:32:50.5	198	263	52	97	1.076	1.000	0.552	05m05s
Wuxi	31°35'N	120°18'E	—	00:22:05.2	285	351	39	01:35:17.7	58	122	01:38:57.6	340	44	02:58:49.8	113	163	71	01:37:07.3	199	263	55	100	1.077	1.000	0.223	03m40s
Xi'an	34°15'N	108°52'E	—	00:12:53.4	277	338	28	—			—			02:34:39.1	115	173	57	01:20:10.8	195	257	42	93	0.909	0.900		
Xianning	29°53'N	114°17'E	—	00:14:36.3	287	353	32	01:24:59.3	162	230	01:28:08.8	232	300	02:46:28.9	108	170	65	01:26:33.7	17	85	48	92	1.075	1.000	0.181	03m10s
Xiaogan	30°55'N	113°54'E	—	00:14:41.3	285	350	32	01:23:27.3	99	165	01:28:51.7	294	1	02:45:23.3	110	170	64	01:26:08.9	197	263	47	93	1.075	1.000	0.868	05m24s
Xintai	35°54'N	117°44'E	—	00:22:04.0	277	336	37	—			—			02:50:24.9	120	166	66	01:33:11.4	198	256	51	103	0.865	0.845		
Xuzhou	34°16'N	117°11'E	—	00:20:07.3	279	341	36	—			—			02:50:31.5	117	167	66	01:32:01.3	198	258	51	100	0.920	0.915		
Yaan	30°03'N	103°02'E	—	00:06:10.3	282	346	21	01:09:08.2	84	151	01:13:38.8	303	10	02:24:31.7	106	173	51	01:11:23.0	194	261	35	85	1.072	1.000	0.666	04m31s
Yancheng	33°24'N	120°09'E	—	00:22:51.5	282	345	39	—			—			02:57:10.6	117	163	70	01:36:51.7	199	260	55	102	0.947	0.948		
Yibin	28°47'N	104°38'E	—	00:06:22.1	285	351	22	—			—			02:27:07.5	104	173	53	01:12:37.0	14	83	36	85	0.998	0.999		
Yichang	30°42'N	111°17'E	—	00:12:11.3	284	350	29	01:19:29.0	103	169	01:24:46.2	289	356	02:40:01.8	108	172	61	01:22:07.1	196	263	44	91	1.074	1.000	0.943	05m17s
Yichun	47°42'N	128°55'E	—	00:51:41.6	255	295	48	—			—			02:51:29.6	147	161	61	01:50:44.0	201	232	56	135	0.446	0.340		
Yulin	22°36'N	110°07'E	—	00:09:58.2	298	13	26	—			—			02:36:20.9	93	173	60	01:18:36.7	15	93	42	82	0.767	0.721		
Yuyao	30°04'N	121°10'E	—	00:22:40.9	288	356	40	01:36:20.1	141	207	01:41:22.2	258	324	03:01:46.2	111	163	73	01:38:50.7	19	86	56	98	1.077	1.000	0.475	05m02s
Zaozhuang	34°53'N	117°34'E	—	00:21:00.8	278	340	37	—			—			02:50:51.4	118	166	66	01:32:44.3	198	257	51	101	0.899	0.889		
Zhanjiang	21°12'N	110°23'E	—	00:10:44.3	301	17	26	—			—			02:36:14.6	90	173	60	01:18:56.1	15	95	42	81	0.719	0.660		
Zhengzhou	34°48'N	113°39'E	—	00:17:08.7	277	339	33	—			—			02:43:19.5	117	170	62	01:26:48.9	197	257	47	97	0.900	0.890		
Zhongshan	22°31'N	113°22'E	—	00:13:29.7	300	15	30	—			—			02:44:04.3	93	174	65	01:24:17.4	16	95	46	84	0.756	0.708		
Zibo	36°47'N	118°01'E	—	00:23:12.2	275	334	37	—			—			02:50:13.8	122	166	65	01:33:48.1	198	254	51	104	0.835	0.807		
Zigong	29°24'N	104°47'E	—	00:06:46.2	284	349	22	01:10:57.6	135	203	01:15:10.1	253	321	02:27:30.2	105	173	53	01:13:03.4	14	82	37	86	1.072	1.000	0.488	04m12s
HONG KONG (CHINA)																										
New Kowloon	22°20'N	114°10'E	—	00:14:30.6	301	16	31	—			—			02:46:00.8	93	174	66	01:25:47.9	17	96	47	84	0.749	0.698		