TABLE 11
LOCAL CIRCUMSTANCES FOR EUROPE — ALBANIA TO ITALY
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	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	°	°	°	°				
ALBANIA																												
Tiranë	41°20'N	019°50'E	7	09:38:38.7	16	44	62	—				—				10:18:12.4	43	57	66	09:58:27.0	29	51	64	152	0.027	0.006		
AUSTRIA																												
Vienna	48°13'N	016°20'E	202	08:57:54.5	350	23	51	—				—				10:32:29.4	64	73	59	09:44:57.1	27	50	56	146	0.195	0.102		
BELARUS																												
Gomel'	52°25'N	031°00'E	—	09:01:20.2	333	348	53	—				—				11:07:10.9	85	68	53	10:04:51.5	29	28	55	181	0.438	0.329		
Minsk	53°54'N	027°34'E	225	08:55:17.1	332	350	51	—				—				11:00:44.5	84	73	53	09:58:19.6	28	32	54	173	0.443	0.333		
BELGIUM																												
Antwerpen	51°13'N	004°25'E	—	08:38:04.1	344	21	40	—				—				10:12:24.3	63	87	52	09:24:28.5	24	56	46	126	0.221	0.122		
Brussels	50°50'N	004°20'E	—	08:38:51.3	345	23	40	—				—				10:11:11.1	62	87	52	09:24:16.8	24	56	46	126	0.209	0.112		
Liège	50°38'N	005°34'E	—	08:40:32.9	346	23	41	—				—				10:13:06.7	62	86	53	09:26:07.8	24	56	47	127	0.207	0.111		
BOSNIA & HERZEGOWINA																												
Sarajevo	43°52'N	018°25'E	—	09:18:47.9	4	36	57	—				—				10:26:24.9	53	64	63	09:52:34.4	28	51	61	149	0.087	0.031		
BULGARIA																												
Sofia	42°41'N	023°19'E	550	09:26:53.4	3	29	62	—				—				10:41:03.1	57	53	65	10:04:07.0	30	43	64	164	0.104	0.040		
CROATIA																												
Zagreb	45°48'N	015°58'E	—	09:07:08.2	358	33	53	—				—				10:25:04.5	57	70	61	09:45:56.6	27	53	58	144	0.122	0.051		
CZECH REPUBLIC																												
Ostrava	49°50'N	018°17'E	—	08:54:56.8	344	15	50	—				—				10:40:02.5	70	74	58	09:47:17.4	27	46	55	152	0.257	0.152		
Praha	50°05'N	014°26'E	202	08:50:36.4	345	18	48	—				—				10:31:25.1	67	78	57	09:40:37.0	26	50	53	143	0.236	0.134		
DENMARK																												
Copenhagen	55°40'N	012°35'E	13	08:38:25.6	332	1	42	—				—				10:35:16.5	77	87	51	09:36:14.6	25	46	48	143	0.385	0.273		
ESTONIA																												
Tallinn	59°25'N	024°45'E	—	08:45:26.6	322	340	45	—				—				10:55:05.0	90	85	48	09:50:17.1	26	33	48	167	0.556	0.460		
FINLAND																												
Helsinki	60°10'N	024°58'E	9	08:44:58.1	321	338	44	—				—				10:55:09.1	91	86	47	09:50:05.0	26	33	47	167	0.576	0.483		
FRANCE																												
Lille	50°38'N	003°04'E	43	08:38:04.4	346	24	39	—				—				10:08:06.6	61	88	51	09:22:20.6	23	57	46	123	0.199	0.105		
Lyon	45°45'N	004°51'E	286	08:59:17.1	5	47	46	—				—				09:50:29.5	43	78	53	09:24:40.8	24	63	49	122	0.054	0.015		
Paris	48°52'N	002°20'E	50	08:42:15.7	352	32	40	—				—				10:00:32.6	55	86	51	09:20:48.1	23	60	46	121	0.143	0.064		
GERMANY																												
Aachen	50°47'N	006°05'E	—	08:40:41.8	345	22	41	—				—				10:14:34.7	63	86	53	09:26:56.4	24	56	48	128	0.214	0.116		
Berlin	52°30'N	013°22'E	—	08:44:06.6	339	11	45	—				—				10:32:58.0	72	82	55	09:38:01.3	26	48	51	143	0.300	0.190		
Bonn	50°44'N	007°05'E	—	08:41:48.0	345	22	42	—				—				10:16:31.3	63	85	53	09:28:29.4	24	55	48	130	0.216	0.118		
Bremen	53°04'N	008°49'E	16	08:38:42.8	339	12	42	—				—				10:24:58.3	70	86	53	09:31:07.5	24	51	48	135	0.293	0.184		
Dortmund	51°31'N	007°28'E	—	08:40:23.7	343	19	42	—				—				10:19:12.4	66	86	53	09:29:05.9	24	54	48	131	0.241	0.139		
Dresden	51°03'N	013°44'E	—	08:47:32.4	343	15	46	—				—				10:31:31.0	69	80	56	09:39:04.2	26	50	52	143	0.260	0.154		
Duisburg	51°25'N	006°46'E	—	08:39:55.7	343	19	41	—				—				10:17:33.8	65	86	53	09:28:01.8	24	54	48	130	0.236	0.134		
Düsseldorf	51°12'N	006°47'E	—	08:40:25.3	344	20	42	—				—				10:17:04.4	64	86	53	09:28:02.6	24	55	48	130	0.229	0.128		
Frankfurt	50°07'N	008°40'E	103	08:44:55.1	347	23	44	—				—				10:18:20.5	63	83	55	09:31:02.1	25	55	50	132	0.205	0.109		
Hamburg	53°33'N	009°59'E	20	08:39:00.7	337	10	42	—				—				10:27:58.1	72	86	53	09:32:48.2	25	50	48	137	0.312	0.202		
Hannover	52°24'N	009°44'E	—	08:40:48.0	340	14	43	—				—				10:25:32.8	69	85	53	09:32:30.6	25	51	49	136	0.278	0.170		
Cologne	50°56'N	006°59'E	—	08:41:13.7	345	21	42	—				—				10:16:49.3	64	85	53	09:28:20.4	24	55	48	130	0.222	0.123		
Leipzig	51°19'N	012°20'E	—	08:45:34.2	343	16	45	—				—				10:28:56.7	68	82	55	09:36:43.9	25	51	51	140	0.259	0.154		
Mannheim	49°29'N	008°29'E	—	08:46:30.6	349	26	44	—				—				10:16:12.4	61	83	55	09:30:47.9	25	56	50	131	0.185	0.094		
München	48°08'N	011°34'E	530	08:53:49.7	352	29	48	—				—				10:19:48.0	59	78	57	09:36:24.8	26	55	53	136	0.161	0.076		
Nürnberg	49°27'N	011°04'E	320	08:49:06.9	348	24	46	—				—				10:22:08.9	63	80	56	09:35:08.5	25	54	52	136	0.197	0.103		
Stuttgart	48°46'N	009°11'E	—	08:49:24.9	351	28	45	—				—				10:15:44.1	59	81	56	09:32:04.8	25	56	51	132	0.167	0.080		
HUNGARY																												
Budapest	47°30'N	019°05'E	120	09:02:45.4	351	21	53	—				—				10:38:27.3	65	69	60	09:50:30.2	28	47	58	153	0.197	0.103		
IRELAND																												
Dublin	53°20'N	006°15'W	47	08:24:34.6	338	16	31	—				—				10:00:41.6	65	95	44	09:11:33.8	21	57	38	113	0.267	0.161		
ITALY																												
Bologna	44°29'N	011°20'E	—	09:12:27.8	8	46	52	—				—				10:02:46.3	45	72	59	09:37:30.3	26	60	56	133	0.048	0.013		
Milan	45°28'N	009°12'E	—	09:04:22.6	4	44	49	—				—				10:01:48.7	47	76	57	09:32:53.5	25	61	53	129	0.066	0.020		
Turin	45°03'N	007°40'E	—	09:06:24.7	7	48	49	—				—				09:53:56.9	43	75	56	09:30:02.4	25	62	52	126	0.045	0.011		