

ECLIPSE BULLETIN: TOTAL SOLAR ECLIPSE OF 2024 APRIL 08

Table 2–3: Local Circumstances for Illinois, Indiana & Louisiana

Location	Lat °	Long °	First Contact			Second Contact			Third Contact			Fourth Contact			Middle Eclipse			Ecl. Mag.	Ecl. Obs.	FDCL	Durat Total			
			Time	V	Alt	Time	V	Alt	Time	V	Alt	Time	V	Alt	Time	V	Alt					Azm		
			h	m	s	°	′	″	h	m	s	°	′	″	h	m	s	°	′	″				
Illinois																								
Aurora	41.75	-88.32	12:50:22	226	56	-	-	-	-	-	-	-	-	15:21:07	20	43	14:06:37	119	52	210	0.936	0.931		
Bloomington	40.48	-89.00	12:47:33	229	57	-	-	-	-	-	-	-	-	15:19:51	18	44	14:04:30	119	54	209	0.958	0.959		
Bolingbrook	41.73	-88.05	12:50:42	226	56	-	-	-	-	-	-	-	-	15:21:28	20	43	14:06:59	118	52	211	0.940	0.936		
Carbondale	37.73	-89.22	12:43:02	235	60	13:59:16.6	25		14:03:25.8	209				15:18:11	10	46	14:01:22	117	57	209	1.054	1.000	0.044	04m08s
Centralia	38.53	-89.13	12:44:23	233	59	14:00:58.2	339		14:03:43.0	256				15:18:46	12	46	14:02:21	117	56	209	1.054	1.000	0.754	02m42s
Champaign	40.12	-88.25	12:48:02	229	57	-	-	-	-	-	-	-	-	15:20:42	15	44	14:05:15	117	54	211	0.979	0.982		
Chicago	41.88	-87.63	12:51:29	226	56	-	-	-	-	-	-	-	-	15:22:03	19	42	14:07:42	118	52	211	0.942	0.938		
Cicero	41.85	-87.75	12:51:16	226	56	-	-	-	-	-	-	-	-	15:21:53	20	43	14:07:30	118	52	211	0.941	0.937		
Danville	40.13	-87.62	12:48:57	229	57	-	-	-	-	-	-	-	-	15:21:31	15	43	14:06:11	117	54	212	0.988	0.991		
Decatur	39.85	-88.95	12:46:39	230	58	-	-	-	-	-	-	-	-	15:19:40	16	45	14:03:58	118	54	209	0.975	0.979		
Downers Grove	41.82	-88.02	12:50:52	226	56	-	-	-	-	-	-	-	-	15:21:32	20	43	14:07:06	119	52	211	0.938	0.934		
East St. Louis	38.62	-90.12	12:43:05	234	59	-	-	-	-	-	-	-	-	15:17:29	14	47	14:00:57	119	56	207	0.989	0.993		
Effingham	39.12	-88.55	12:46:07	231	58	14:03:25.2	308		14:03:50.9	285				15:19:51	13	45	14:03:49	117	55	210	1.054	1.000	0.981	00m48s
Elgin	42.03	-88.28	12:50:50	226	56	-	-	-	-	-	-	-	-	15:21:14	21	43	14:06:55	119	52	210	0.929	0.922		
Evanston	42.05	-87.68	12:51:39	225	56	-	-	-	-	-	-	-	-	15:22:00	20	42	14:07:46	118	52	211	0.937	0.932		
Herrin	37.80	-89.03	12:43:24	234	60	13:59:38.0	27		14:03:47.0	206				15:18:29	10	46	14:01:43	116	57	210	1.054	1.000	0.001	04m08s
Joliet	41.53	-88.08	12:50:22	227	56	-	-	-	-	-	-	-	-	15:21:22	19	43	14:06:46	118	52	211	0.945	0.942		
Kankakee	41.12	-87.87	12:50:02	227	56	-	-	-	-	-	-	-	-	15:21:32	18	43	14:06:42	118	53	211	0.958	0.959		
Marion	37.73	-88.93	12:43:27	235	60	13:59:43.4	34		14:03:50.2	199				15:18:34	10	46	14:01:48	119	57	210	1.054	1.000	-0.120	04m07s
Mount Prospect	42.07	-87.93	12:51:21	226	56	-	-	-	-	-	-	-	-	15:21:41	20	43	14:07:26	119	52	211	0.933	0.927		
Mount Vernon	38.32	-88.92	12:44:22	233	59	14:00:34.8	2		14:04:15.3	231				15:18:57	11	46	14:02:27	117	56	210	1.054	1.000	0.424	03m44s
Naperville	41.77	-88.15	12:50:37	226	56	-	-	-	-	-	-	-	-	15:21:21	20	43	14:06:52	119	52	210	0.937	0.933		
Oak Lawn	41.72	-87.73	12:51:06	226	56	-	-	-	-	-	-	-	-	15:21:52	19	43	14:07:25	118	52	211	0.945	0.942		
Oak Park	41.88	-87.78	12:51:16	226	56	-	-	-	-	-	-	-	-	15:21:51	20	43	14:07:29	118	52	211	0.940	0.936		
Peoria	40.70	-89.60	12:47:04	229	57	-	-	-	-	-	-	-	-	15:19:07	19	45	14:03:50	120	54	208	0.944	0.941		
Quincy	39.93	-91.38	12:43:27	233	57	-	-	-	-	-	-	-	-	15:16:22	20	47	14:00:28	122	56	204	0.936	0.932		
Rockford	42.27	-89.10	12:50:08	226	55	-	-	-	-	-	-	-	-	15:20:13	23	43	14:05:59	120	52	208	0.911	0.900		
Schaumburg	42.03	-88.08	12:51:06	226	56	-	-	-	-	-	-	-	-	15:21:29	20	43	14:07:11	119	52	210	0.932	0.926		
Skokie	42.05	-87.75	12:51:34	225	56	-	-	-	-	-	-	-	-	15:21:55	20	42	14:07:40	118	52	211	0.936	0.931		
Springfield	39.80	-89.65	12:45:36	231	58	-	-	-	-	-	-	-	-	15:18:42	17	45	14:02:53	119	55	208	0.966	0.968		
Wheaton	41.87	-88.10	12:50:50	226	56	-	-	-	-	-	-	-	-	15:21:26	20	43	14:07:01	119	52	210	0.936	0.931		
Indiana																								
Anderson	40.17	-85.68	13:51:49	227	57	15:07:14.4	358		15:10:45.3	231				16:23:58	12	42	15:09:02	114	52	216	1.054	1.000	0.456	03m34s
Bedford	38.87	-86.48	13:48:50	230	59	15:04:46.6	48		15:08:30.9	179				16:22:24	10	43	15:06:40	114	53	215	1.054	1.000	-0.406	03m43s
Beech Grove	39.73	-86.05	13:50:41	228	58	15:06:08.2	12		15:10:02.2	216				16:23:20	11	42	15:08:07	114	53	215	1.054	1.000	0.217	03m56s
Bloomington	39.17	-86.53	13:49:10	229	58	15:04:50.8	30		15:08:53.8	199				16:22:29	10	43	15:06:53	114	53	215	1.054	1.000	-0.083	04m02s
Brownsburg	39.88	-86.38	13:50:24	228	58	15:06:03.1	352		15:09:24.3	237				16:22:59	12	43	15:07:45	115	53	215	1.054	1.000	0.544	03m23s
Carmel	39.98	-86.13	13:50:54	227	58	15:06:28.0	354		15:09:53.8	235				16:23:20	12	42	15:08:13	114	53	215	1.054	1.000	0.510	03m27s
Columbus	39.22	-85.92	13:50:11	228	58	15:05:55.2	46		15:09:42.3	181				16:23:16	10	43	15:07:51	114	53	216	1.054	1.000	-0.368	03m45s
Connersville	39.63	-85.15	13:51:54	227	58	15:07:25.7	45		15:11:11.8	181				16:24:24	10	42	15:09:21	114	53	217	1.054	1.000	-0.360	03m44s
Crawfordsville	40.03	-86.90	13:49:51	228	58	15:06:38.6	310		15:07:18.1	281				16:22:24	13	43	15:07:08	115	53	213	1.054	1.000	0.968	01m00s
Elkhart	41.68	-85.97	13:53:28	225	56	-	-	-	-	-	-	-	-	16:24:05	17	41	15:09:52	116	51	215	0.970	0.972		
Evanstonville	37.97	-87.58	12:45:52	232	60	14:02:35.0	67		14:05:38.0	162				15:20:30	9	45	14:04:07	119	56	213	1.054	1.000	-0.670	03m03s
Fishers	39.95	-86.02	13:51:02	227	58	15:06:31.7	0		15:10:07.3	228				16:23:28	12	42	15:08:21	114	53	215	1.054	1.000	0.415	03m39s
Fort Wayne	41.07	-85.15	13:53:48	225	56	-	-	-	-	-	-	-	-	16:24:55	14	41	15:10:32	114	51	216	0.998	0.999		
Frankfort	40.28	-86.52	13:50:45	227	57	-	-	-	-	-	-	-	-	16:22:58	14	42	15:07:55	115	53	214	1.000	0.999		
Franklin	39.48	-86.05	13:50:20	228	58	15:05:51.8	26		15:09:54.1	202				16:23:14	11	43	15:07:53	114	53	215	1.054	1.000	-0.031	04m02s
Gary	41.60	-87.33	12:51:28	226	56	-	-	-	-	-	-	-	-	15:22:22	18	42	14:07:53	119	52	212	0.953	0.953		
Greenfield	39.78	-85.77	13:51:10	227	58	15:06:34.2	18		15:10:32.6	210				16:23:43	11	42	15:08:34	114	53	216	1.054	1.000	0.117	03m59s
Greensburg	39.33	-85.48	13:51:00	228	58	15:06:48.5	52		15:10:20.8	174				16:23:52	10	42	15:08:35	114	53	217	1.054	1.000	-0.484	03m31s
Greenwood	39.62	-86.12	13:50:25	228	58	15:05:54.5	17		15:09:52.7	211				16:23:12	11	43	15:07:55	114	53	215	1.054	1.000	0.137	03m59s
Hammond	41.63	-87.50	12:51:18	226	56	-	-	-	-	-	-	-	-	15:22:09										