

Table 4 — Local Circumstances for the Total Solar Eclipse of 2019 July 02

Location Name	Eclipse Begins	Maximum Eclipse	Eclipse Ends	Sun Alt	Sun Azm	Eclipse Mag.	Eclipse Obs.
				°	°		
Argentina							
Buenos Aires	16:36	17:44	-	1	299	0.995	0.997
Córdoba	16:32	17:44	-	7	302	0.982	0.983
Rosario	16:35	17:45	-	4	300	0.979	0.981
Bolivia							
La Paz	15:39	16:49	17:50	17	301	0.631	0.547
Santa Cruz	15:47	16:52	-	11	299	0.601	0.511
Brazil							
Manaus	16:21	16:54	17:24	15	295	0.125	0.053
Chile							
Santiago	15:21	16:37	17:44	11	308	0.930	0.921
Valparaíso	15:20	16:36	17:44	12	308	0.929	0.920
Colombia							
Bogota	15:07	15:39	16:09	34	295	0.089	0.032
Cali	14:53	15:36	16:16	37	296	0.157	0.073
Medellín	15:10	15:36	16:01	37	294	0.059	0.017
Costa Rica							
San Jose	13:54	14:21	14:48	49	294	0.055	0.015
Ecuador							
Guayaquil	14:28	15:34	16:32	37	301	0.370	0.258
Quito	14:37	15:35	16:28	37	299	0.294	0.185
Paraguay							
Asuncion	15:47	16:52	-	4	297	0.740	0.680
Peru							
Lima	14:23	15:39	16:46	28	305	0.623	0.538

All times listed are in Local Time (Daylight Saving Time where applicable)

**"Eclipses During 2019", Fred Espenak,
Observer's Handbook 2019, Royal Astronomical Society of Canada**

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