

**Table 3 – Total Eclipse Circumstances for Gibraltar, Spain, and Morocco**

| Country/City          | Partial Eclipse Begins | Total Eclipse Begins | Total Eclipse Ends | Partial Eclipse Ends | Duration Totality | Sun Altitude |
|-----------------------|------------------------|----------------------|--------------------|----------------------|-------------------|--------------|
| <b>Gibraltar</b>      |                        |                      |                    |                      |                   |              |
| Gibraltar             | 09:41:08 am            | 10:45:34 am          | 10:50:04 am        | 12:01:11 pm          | 04m28s            | 38°          |
| <b>Spain</b>          |                        |                      |                    |                      |                   |              |
| Algeciras             | 09:41:02 am            | 10:45:24 am          | 10:49:53 am        | 12:00:56 pm          | 04m27s            | 38°          |
| Cadiz                 | 09:40:46 am            | 10:45:26 am          | 10:48:12 am        | 11:59:36 am          | 02m52s            | 37°          |
| El Puerto de S. Maria | 09:40:51 am            | 10:45:45 am          | 10:48:07 am        | 11:59:43 am          | 02m26s            | 38°          |
| Jerez de la Frontera  | 09:40:58 am            | 10:46:14 am          | 10:47:56 am        | 11:59:51 am          | 01m40s            | 38°          |
| La Linea              | 09:41:10 am            | 10:45:39 am          | 10:50:04 am        | 12:01:14 pm          | 04m24s            | 38°          |
| Malaga                | 09:42:07 am            | 10:48:08 am          | 10:50:02 am        | 12:02:39 pm          | 01m54s            | 39°          |
| San Fernando          | 09:40:47 am            | 10:45:20 am          | 10:48:30 am        | 11:59:46 am          | 03m15s            | 38°          |
| <b>Morocco</b>        |                        |                      |                    |                      |                   |              |
| Tangier               | 08:40:41 am            | 09:44:47 am          | 09:49:37 am        | 11:00:33 am          | 04m50s            | 38°          |
| Tetouan               | 08:40:48 am            | 09:45:10 am          | 09:49:58 am        | 11:01:10 am          | 04m50s            | 38°          |
| <b>Spanish Terr.</b>  |                        |                      |                    |                      |                   |              |
| Ceuta                 | 08:41:01 am            | 09:45:20 am          | 09:50:09 am        | 11:01:15 am          | 04m49s            | 38°          |

**Table 4 – Total Eclipse Circumstances for Algeria, and Tunisia**

| Country/City       | Partial Eclipse Begins | Total Eclipse Begins | Total Eclipse Ends | Partial Eclipse Ends | Duration Totality | Sun Altitude |
|--------------------|------------------------|----------------------|--------------------|----------------------|-------------------|--------------|
| <b>Algeria</b>     |                        |                      |                    |                      |                   |              |
| Ain Beida          | 08:52:33 am            | 10:03:35 am          | 10:07:49 am        | 11:24:23 am          | 04m17s            | 52°          |
| Ain Temouchent     | 08:43:52 am            | 09:50:31 am          | 09:55:16 am        | 11:08:38 am          | 04m42s            | 43°          |
| Barika             | 08:50:09 am            | 09:59:44 am          | 10:05:11 am        | 11:20:47 am          | 05m27s            | 50°          |
| Batna              | 08:51:06 am            | 10:01:07 am          | 10:06:25 am        | 11:22:14 am          | 05m15s            | 51°          |
| Biskra             | 08:50:24 am            | 10:00:34 am          | 10:05:38 am        | 11:21:49 am          | 05m03s            | 51°          |
| Blida              | 08:47:59 am            | 09:57:11 am          | 10:00:01 am        | 11:15:25 am          | 02m53s            | 47°          |
| Bordj Bou Arreridj | 08:49:45 am            | 09:59:24 am          | 10:03:39 am        | 11:19:13 am          | 04m16s            | 49°          |
| Boufarik           | 08:48:07 am            | 09:57:48 am          | 09:59:43 am        | 11:15:31 am          | 01m54s            | 47°          |
| Bou Saada          | 08:48:50 am            | 09:58:01 am          | 10:03:14 am        | 11:18:37 am          | 05m16s            | 49°          |
| Djelfa             | 08:47:42 am            | 09:57:27 am          | 10:00:53 am        | 11:17:04 am          | 03m24s            | 48°          |
| Ech Cheliff        | 08:46:26 am            | 09:54:10 am          | 09:58:46 am        | 11:12:49 am          | 04m34s            | 45°          |
| El Eulma           | 08:50:44 am            | 10:01:08 am          | 10:04:37 am        | 11:20:52 am          | 03m35s            | 50°          |
| Ghilizane          | 08:45:28 am            | 09:52:37 am          | 09:57:48 am        | 11:11:28 am          | 05m11s            | 45°          |
| Khemis             | 08:47:18 am            | 09:55:40 am          | 09:59:47 am        | 11:14:23 am          | 04m08s            | 46°          |
| Khenchla           | 08:52:12 am            | 10:02:45 am          | 10:08:03 am        | 11:24:13 am          | 05m16s            | 52°          |
| Lemdiyya           | 08:47:51 am            | 09:56:30 am          | 10:00:45 am        | 11:15:33 am          | 04m16s            | 47°          |
| Maghniyya          | 08:43:06 am            | 09:50:25 am          | 09:53:17 am        | 11:07:27 am          | 02m47s            | 42°          |
| Mascara            | 08:45:03 am            | 09:51:57 am          | 09:57:07 am        | 11:10:35 am          | 05m10s            | 44°          |
| Mostaganem         | 08:45:11 am            | 09:52:08 am          | 09:57:15 am        | 11:10:44 am          | 05m07s            | 44°          |
| M'Sila             | 08:49:22 am            | 09:58:34 am          | 10:03:43 am        | 11:18:56 am          | 05m07s            | 49°          |
| Oran               | 08:44:25 am            | 09:50:58 am          | 09:56:04 am        | 11:09:16 am          | 05m08s            | 43°          |
| Saida              | 08:44:48 am            | 09:52:58 am          | 09:56:13 am        | 11:11:06 am          | 03m12s            | 44°          |
| Setif              | 08:50:30 am            | 10:00:45 am          | 10:04:16 am        | 11:20:25 am          | 03m37s            | 50°          |
| Sidi Bel Abbes     | 08:44:40 am            | 09:51:52 am          | 09:56:33 am        | 11:10:25 am          | 04m38s            | 44°          |
| Tebessa            | 08:53:20 am            | 10:04:28 am          | 10:09:32 am        | 11:26:05 am          | 05m03s            | 53°          |
| Tiaret             | 08:46:08 am            | 09:53:50 am          | 09:58:57 am        | 11:13:08 am          | 05m11s            | 46°          |
| Tlemcen            | 08:43:36 am            | 09:51:04 am          | 09:54:13 am        | 11:08:31 am          | 03m06s            | 43°          |
| <b>Tunisia</b>     |                        |                      |                    |                      |                   |              |
| El Kairouan        | 08:55:49 am            | 10:08:56 am          | 10:11:33 am        | 11:29:41 am          | 02m37s            | 55°          |
| El Kasserine       | 08:54:03 am            | 10:05:24 am          | 10:10:52 am        | 11:27:35 am          | 05m26s            | 54°          |
| Gabes              | 08:55:31 am            | 10:08:41 am          | 10:12:49 am        | 11:31:16 am          | 04m08s            | 56°          |
| Gafsa              | 08:53:54 am            | 10:05:43 am          | 10:10:54 am        | 11:28:11 am          | 05m08s            | 54°          |
| Houmt Essouk       | 08:56:29 am            | 10:09:30 am          | 10:14:36 am        | 11:32:40 am          | 05m02s            | 57°          |
| Sfax               | 08:56:27 am            | 10:08:48 am          | 10:14:29 am        | 11:31:49 am          | 05m40s            | 56°          |
| Zarzis             | 08:56:49 am            | 10:11:18 am          | 10:14:12 am        | 11:33:38 am          | 02m54s            | 57°          |