

Sun Azimuth & Elevation Intersections for Taupo, New Zealand						(38.66° S, 176.14° E)		Dates & Times—twice a year for each occurrence:		Standard Time = UTC + 1200				Daylight Time = UTC + 1300						
AXONUTH	120°		90°		60°		45°		0°		315°		300°		270°		240°		DT = Last Sun in September – First Sun in April	
ALTITUDE																				
75°																				75°
60°									27- Feb 13-29	16- Oct 13-01										60°
45°					24- Feb 10:55	18- Oct 10:27	14- Mar 11:25	01- Oct 11:05	06- Apr 13:18	07- Sep 12:14	13- Mar 15:25	01- Oct 15:06	24- Feb 16:03	18- Oct 15:34						45°
30°			Jan- 29 09:06	Nov- 15 08:37	25- Mar 10:08	20- Sep 08:55	15- Apr 09:42	29- Aug 09:43	28- May 12:13	17- Jul 12:22	15- Apr 14:50	29- Aug 14:51	25- Mar 16:37	19- Sep 15:24	Jan- 28 17:52	Nov- 14 17:23				30°
15°			25- Feb 08:16	18- Oct 07:48	23- Apr 08:18	21- Aug 08:23	31- May 09:04	13- Jul 09:12			31- May 15:23	13- Jul 15:31	23- Apr 16:10	20- Aug 16:15	25- Feb 18:42	17- Oct 18:14				15°
10°			05- Mar 07:58	09- Oct 07:34	05- May 08:02	09- Aug 08:11							05- May 16:23	09- Aug 16:32	05- Mar 18:56	09- Oct 18:32				10°
5°			14- Mar 07:41	01- Oct 07:21	19- May 07:47	26- Jul 07:57							19- May 16:38	25- Jul 16:48	13- Mar 19:10	01- Oct 18:51				5°
0°	06- Jan 06:00	08- Dec 05:46	22- Mar 07:21	23- Sep 06:07	17- Jun 07:34	27- Jun 07:36							17- Jun 16:59	26- Jun 17:01	22- Mar 19:25	22- Sep 18:10	05- Jan 20:42	07- Dec 20:28		0°

For: Automation Racetrack-- New Zealand

Gray rectangles indicate the intersections where the sun can never be, at the given location.

The above table is for when you know the azimuth and altitude you have in mind, and want to yield the dates and times. However, if you wish to do the opposite-- that is... you have a specific date and time in mind, and want to know what the correct azimuth and altitude is for a given location (via latitude and longitude)-- then click on the link below to use the calculator in this website:

<https://www.esrl.noaa.gov/gmd/grad/solcalc/azel.html>