

M13 9WL

Longitude W002 14
Latitude N53 28

			18°						18°	
Civil Date			Twilight	Sunrise	Transit	Shadow 1	Shadow 2	Sunset	Twilight	
Year	mth	d	h m	h m	h m	h m	h m	h m	h m	h m
2025	1	1	06 14	08 25	12 13	13 46	14 14	16 01	18 11	
2025	1	2	06 14	08 25	12 13	13 47	14 15	16 02	18 12	
2025	1	3	06 14	08 24	12 14	13 48	14 16	16 03	18 13	
2025	1	4	06 14	08 24	12 14	13 49	14 18	16 04	18 14	
2025	1	5	06 14	08 24	12 14	13 50	14 19	16 06	18 15	
2025	1	6	06 14	08 23	12 15	13 51	14 20	16 07	18 16	
2025	1	7	06 14	08 23	12 15	13 52	14 21	16 08	18 17	
2025	1	8	06 13	08 22	12 16	13 53	14 23	16 10	18 18	
2025	1	9	06 13	08 21	12 16	13 54	14 24	16 11	18 20	
2025	1	10	06 13	08 21	12 17	13 56	14 25	16 13	18 21	
2025	1	11	06 12	08 20	12 17	13 57	14 27	16 14	18 22	
2025	1	12	06 12	08 19	12 17	13 58	14 28	16 16	18 23	
2025	1	13	06 11	08 18	12 18	14 00	14 30	16 17	18 25	
2025	1	14	06 11	08 18	12 18	14 01	14 31	16 19	18 26	
2025	1	15	06 10	08 17	12 18	14 02	14 33	16 21	18 27	
2025	1	16	06 09	08 16	12 19	14 04	14 35	16 22	18 29	
2025	1	17	06 09	08 15	12 19	14 05	14 36	16 24	18 30	
2025	1	18	06 08	08 13	12 19	14 06	14 38	16 26	18 32	
2025	1	19	06 07	08 12	12 20	14 08	14 40	16 28	18 33	
2025	1	20	06 06	08 11	12 20	14 09	14 41	16 29	18 34	
2025	1	21	06 05	08 10	12 20	14 11	14 43	16 31	18 36	
2025	1	22	06 04	08 09	12 21	14 12	14 45	16 33	18 37	
2025	1	23	06 03	08 07	12 21	14 14	14 46	16 35	18 39	
2025	1	24	06 02	08 06	12 21	14 15	14 48	16 37	18 40	
2025	1	25	06 01	08 05	12 21	14 17	14 50	16 39	18 42	
2025	1	26	06 00	08 03	12 21	14 18	14 52	16 41	18 44	
2025	1	27	05 59	08 02	12 22	14 20	14 53	16 42	18 45	
2025	1	28	05 58	08 00	12 22	14 21	14 55	16 44	18 47	
2025	1	29	05 57	07 58	12 22	14 23	14 57	16 46	18 48	
2025	1	30	05 55	07 57	12 22	14 24	14 59	16 48	18 50	
2025	1	31	05 54	07 55	12 22	14 26	15 01	16 50	18 52	
2025	2	1	05 53	07 54	12 23	14 27	15 03	16 52	18 53	
2025	2	2	05 51	07 52	12 23	14 29	15 04	16 54	18 55	
2025	2	3	05 50	07 50	12 23	14 30	15 06	16 56	18 57	
2025	2	4	05 48	07 48	12 23	14 32	15 08	16 58	18 58	
2025	2	5	05 47	07 47	12 23	14 34	15 10	17 00	19 00	
2025	2	6	05 45	07 45	12 23	14 35	15 12	17 02	19 02	
2025	2	7	05 44	07 43	12 23	14 37	15 14	17 04	19 03	
2025	2	8	05 42	07 41	12 23	14 38	15 15	17 06	19 05	
2025	2	9	05 40	07 39	12 23	14 40	15 17	17 08	19 07	
2025	2	10	05 39	07 37	12 23	14 41	15 19	17 10	19 08	
2025	2	11	05 37	07 35	12 23	14 43	15 21	17 12	19 10	
2025	2	12	05 35	07 33	12 23	14 44	15 23	17 14	19 12	
2025	2	13	05 33	07 31	12 23	14 46	15 25	17 16	19 14	
2025	2	14	05 32	07 29	12 23	14 47	15 26	17 18	19 16	
2025	2	15	05 30	07 27	12 23	14 49	15 28	17 20	19 17	
2025	2	16	05 28	07 25	12 23	14 50	15 30	17 22	19 19	
2025	2	17	05 26	07 23	12 23	14 52	15 32	17 24	19 21	
2025	2	18	05 24	07 21	12 23	14 53	15 34	17 26	19 23	
2025	2	19	05 22	07 19	12 23	14 55	15 35	17 28	19 25	
2025	2	20	05 20	07 16	12 23	14 56	15 37	17 30	19 26	
2025	2	21	05 18	07 14	12 22	14 58	15 39	17 32	19 28	
2025	2	22	05 16	07 12	12 22	14 59	15 41	17 34	19 30	
2025	2	23	05 14	07 10	12 22	15 01	15 42	17 35	19 32	

NOTE: These times are in GMT, except between 0100 on Mar.30 and 0100 on Oct.26, when they are in BST (1 hour in advance of GMT).

Twilight = Start and End of Astronomical Twilight
 Shadow 1 = Times when the length of the shadow cast by a vertical stick is equal to its length plus length of its shadow at transit
 Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
 Transit = Time of Meridian passage of Sun

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Computed on 27-Jan-2025

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Latitude N53 28

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Civil Date			Twilight	Sunrise	Transit	Shadow 1	Shadow 2	Sunset	Twilight	
Year	mth	d	h m	h m	h m	h m	h m	h m	h m	h m
2025	2	24	05 11	07 08	12 22	15 02	15 44	17 37	19 34	
2025	2	25	05 09	07 05	12 22	15 03	15 46	17 39	19 36	
2025	2	26	05 07	07 03	12 22	15 05	15 48	17 41	19 38	
2025	2	27	05 05	07 01	12 22	15 06	15 49	17 43	19 40	
2025	2	28	05 03	06 59	12 21	15 08	15 51	17 45	19 41	
2025	3	1	05 00	06 56	12 21	15 09	15 53	17 47	19 43	
2025	3	2	04 58	06 54	12 21	15 10	15 54	17 49	19 45	
2025	3	3	04 56	06 52	12 21	15 12	15 56	17 51	19 47	
2025	3	4	04 53	06 49	12 21	15 13	15 58	17 53	19 49	
2025	3	5	04 51	06 47	12 20	15 14	15 59	17 55	19 51	
2025	3	6	04 48	06 45	12 20	15 16	16 01	17 57	19 53	
2025	3	7	04 46	06 42	12 20	15 17	16 02	17 58	19 55	
2025	3	8	04 43	06 40	12 20	15 18	16 04	18 00	19 57	
2025	3	9	04 41	06 37	12 19	15 19	16 06	18 02	19 59	
2025	3	10	04 38	06 35	12 19	15 21	16 07	18 04	20 01	
2025	3	11	04 36	06 33	12 19	15 22	16 09	18 06	20 03	
2025	3	12	04 33	06 30	12 19	15 23	16 10	18 08	20 05	
2025	3	13	04 31	06 28	12 18	15 24	16 12	18 10	20 07	
2025	3	14	04 28	06 26	12 18	15 26	16 13	18 12	20 10	
2025	3	15	04 25	06 23	12 18	15 27	16 15	18 13	20 12	
2025	3	16	04 23	06 21	12 17	15 28	16 16	18 15	20 14	
2025	3	17	04 20	06 18	12 17	15 29	16 18	18 17	20 16	
2025	3	18	04 17	06 16	12 17	15 30	16 19	18 19	20 18	
2025	3	19	04 15	06 13	12 17	15 31	16 21	18 21	20 20	
2025	3	20	04 12	06 11	12 16	15 33	16 22	18 23	20 22	
2025	3	21	04 09	06 09	12 16	15 34	16 24	18 24	20 25	
2025	3	22	04 06	06 06	12 16	15 35	16 25	18 26	20 27	
2025	3	23	04 03	06 04	12 15	15 36	16 27	18 28	20 29	
2025	3	24	04 00	06 01	12 15	15 37	16 28	18 30	20 31	
2025	3	25	03 58	05 59	12 15	15 38	16 30	18 32	20 34	
2025	3	26	03 55	05 56	12 14	15 39	16 31	18 34	20 36	
2025	3	27	03 52	05 54	12 14	15 40	16 32	18 35	20 38	
2025	3	28	03 49	05 52	12 14	15 41	16 34	18 37	20 41	
2025	3	29	03 46	05 49	12 14	15 42	16 35	18 39	20 43	
2025	3	30	04 43	06 47	13 13	16 43	17 36	19 41	21 46	
2025	3	31	04 40	06 44	13 13	16 44	17 38	19 43	21 48	
2025	4	1	04 37	06 42	13 13	16 45	17 39	19 45	21 51	
2025	4	2	04 34	06 40	13 12	16 46	17 41	19 46	21 53	
2025	4	3	04 31	06 37	13 12	16 47	17 42	19 48	21 56	
2025	4	4	04 27	06 35	13 12	16 48	17 43	19 50	21 58	
2025	4	5	04 24	06 32	13 12	16 49	17 44	19 52	22 01	
2025	4	6	04 21	06 30	13 11	16 50	17 46	19 54	22 04	
2025	4	7	04 18	06 28	13 11	16 51	17 47	19 56	22 06	
2025	4	8	04 15	06 25	13 11	16 52	17 48	19 57	22 09	
2025	4	9	04 11	06 23	13 10	16 53	17 50	19 59	22 12	
2025	4	10	04 08	06 20	13 10	16 54	17 51	20 01	22 15	
2025	4	11	04 05	06 18	13 10	16 55	17 52	20 03	22 18	
2025	4	12	04 01	06 16	13 10	16 56	17 53	20 05	22 20	
2025	4	13	03 58	06 13	13 09	16 56	17 55	20 06	22 23	
2025	4	14	03 54	06 11	13 09	16 57	17 56	20 08	22 26	
2025	4	15	03 51	06 09	13 09	16 58	17 57	20 10	22 29	
2025	4	16	03 47	06 07	13 09	16 59	17 58	20 12	22 32	
2025	4	17	03 44	06 04	13 08	17 00	18 00	20 14	22 36	
2025	4	18	03 40	06 02	13 08	17 01	18 01	20 16	22 39	

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Latitude N53 28

Civil Date			18°		Sunrise		Transit		Shadow 1		Shadow 2		Sunset		18°	
Year	mth	d	h	m	h	m	h	m	h	m	h	m	h	m	h	m
2025	4	19	03	37	06	00	13	08	17	02	18	02	20	17	22	42
2025	4	20	03	33	05	58	13	08	17	02	18	03	20	19	22	45
2025	4	21	03	29	05	55	13	08	17	03	18	04	20	21	22	49
2025	4	22	03	25	05	53	13	07	17	04	18	05	20	23	22	52
2025	4	23	03	22	05	51	13	07	17	05	18	07	20	25	22	56
2025	4	24	03	18	05	49	13	07	17	06	18	08	20	27	22	59
2025	4	25	03	14	05	47	13	07	17	06	18	09	20	28	23	03
2025	4	26	03	10	05	44	13	07	17	07	18	10	20	30	23	07
2025	4	27	03	06	05	42	13	07	17	08	18	11	20	32	23	11
2025	4	28	03	01	05	40	13	06	17	09	18	12	20	34	23	15
2025	4	29	02	57	05	38	13	06	17	10	18	14	20	36	23	19
2025	4	30	02	53	05	36	13	06	17	10	18	15	20	37	23	23
2025	5	1	02	48	05	34	13	06	17	11	18	16	20	39	23	28
2025	5	2	02	44	05	32	13	06	17	12	18	17	20	41	23	32
2025	5	3	02	39	05	30	13	06	17	13	18	18	20	43	23	37
2025	5	4	02	34	05	28	13	06	17	13	18	19	20	44	23	42
2025	5	5	02	29	05	26	13	06	17	14	18	20	20	46	23	47
2025	5	6	02	23	05	24	13	06	17	15	18	21	20	48	23	53
2025	5	7	02	18	05	22	13	05	17	15	18	22	20	50	23	59
2025	5	8	02	11	05	20	13	05	17	16	18	23	20	51	24	05
2025	5	9	02	05	05	19	13	05	17	17	18	24	20	53	24	12
2025	5	10	01	58	05	17	13	05	17	18	18	25	20	55	24	21
2025	5	11	01	49	05	15	13	05	17	18	18	26	20	57	24	30
2025	5	12	01	40	05	13	13	05	17	19	18	27	20	58	24	44
2025	5	13	01	26	05	12	13	05	17	20	18	28	21	00	**	**
2025	5	14	**	**	05	10	13	05	17	20	18	29	21	02	**	**
2025	5	15	**	**	05	08	13	05	17	21	18	30	21	03	**	**
2025	5	16	**	**	05	07	13	05	17	22	18	31	21	05	**	**
2025	5	17	**	**	05	05	13	05	17	22	18	32	21	07	**	**
2025	5	18	**	**	05	04	13	05	17	23	18	33	21	08	**	**
2025	5	19	**	**	05	02	13	05	17	23	18	34	21	10	**	**
2025	5	20	**	**	05	01	13	05	17	24	18	35	21	11	**	**
2025	5	21	**	**	04	59	13	06	17	25	18	36	21	13	**	**
2025	5	22	**	**	04	58	13	06	17	25	18	37	21	14	**	**
2025	5	23	**	**	04	57	13	06	17	26	18	37	21	16	**	**
2025	5	24	**	**	04	55	13	06	17	26	18	38	21	17	**	**
2025	5	25	**	**	04	54	13	06	17	27	18	39	21	19	**	**
2025	5	26	**	**	04	53	13	06	17	28	18	40	21	20	**	**
2025	5	27	**	**	04	52	13	06	17	28	18	41	21	21	**	**
2025	5	28	**	**	04	51	13	06	17	29	18	41	21	23	**	**
2025	5	29	**	**	04	50	13	06	17	29	18	42	21	24	**	**
2025	5	30	**	**	04	49	13	07	17	30	18	43	21	25	**	**
2025	5	31	**	**	04	48	13	07	17	30	18	44	21	26	**	**
2025	6	1	**	**	04	47	13	07	17	31	18	44	21	28	**	**
2025	6	2	**	**	04	46	13	07	17	31	18	45	21	29	**	**
2025	6	3	**	**	04	45	13	07	17	32	18	46	21	30	**	**
2025	6	4	**	**	04	44	13	07	17	32	18	46	21	31	**	**
2025	6	5	**	**	04	44	13	07	17	33	18	47	21	32	**	**
2025	6	6	**	**	04	43	13	08	17	33	18	47	21	33	**	**
2025	6	7	**	**	04	42	13	08	17	33	18	48	21	34	**	**
2025	6	8	**	**	04	42	13	08	17	34	18	49	21	35	**	**
2025	6	9	**	**	04	41	13	08	17	34	18	49	21	36	**	**
2025	6	10	**	**	04	41	13	08	17	35	18	50	21	36	**	**
2025	6	11	**	**	04	40	13	09	17	35	18	50	21	37	**	**

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** ** indicates that the phenomenon does not occur

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Year	mth	d	h	m	h	m	h	m	h	m	h	m				
2025	6	12	**	**	04	40	13	09	17	35	18	51	21	38	**	**
2025	6	13	**	**	04	40	13	09	17	36	18	51	21	39	**	**
2025	6	14	**	**	04	40	13	09	17	36	18	51	21	39	**	**
2025	6	15	**	**	04	40	13	09	17	36	18	52	21	40	**	**
2025	6	16	**	**	04	39	13	10	17	37	18	52	21	40	**	**
2025	6	17	**	**	04	39	13	10	17	37	18	52	21	41	**	**
2025	6	18	**	**	04	39	13	10	17	37	18	53	21	41	**	**
2025	6	19	**	**	04	40	13	10	17	37	18	53	21	41	**	**
2025	6	20	**	**	04	40	13	11	17	38	18	53	21	42	**	**
2025	6	21	**	**	04	40	13	11	17	38	18	53	21	42	**	**
2025	6	22	**	**	04	40	13	11	17	38	18	54	21	42	**	**
2025	6	23	**	**	04	40	13	11	17	38	18	54	21	42	**	**
2025	6	24	**	**	04	41	13	11	17	38	18	54	21	42	**	**
2025	6	25	**	**	04	41	13	12	17	39	18	54	21	42	**	**
2025	6	26	**	**	04	42	13	12	17	39	18	54	21	42	**	**
2025	6	27	**	**	04	42	13	12	17	39	18	54	21	42	**	**
2025	6	28	**	**	04	43	13	12	17	39	18	54	21	42	**	**
2025	6	29	**	**	04	43	13	12	17	39	18	54	21	41	**	**
2025	6	30	**	**	04	44	13	13	17	39	18	54	21	41	**	**
2025	7	1	**	**	04	45	13	13	17	39	18	54	21	41	**	**
2025	7	2	**	**	04	46	13	13	17	39	18	54	21	40	**	**
2025	7	3	**	**	04	46	13	13	17	39	18	54	21	40	**	**
2025	7	4	**	**	04	47	13	13	17	39	18	53	21	39	**	**
2025	7	5	**	**	04	48	13	14	17	39	18	53	21	39	**	**
2025	7	6	**	**	04	49	13	14	17	39	18	53	21	38	**	**
2025	7	7	**	**	04	50	13	14	17	39	18	53	21	37	**	**
2025	7	8	**	**	04	51	13	14	17	38	18	52	21	36	**	**
2025	7	9	**	**	04	52	13	14	17	38	18	52	21	36	**	**
2025	7	10	**	**	04	53	13	14	17	38	18	52	21	35	**	**
2025	7	11	**	**	04	54	13	15	17	38	18	51	21	34	**	**
2025	7	12	**	**	04	56	13	15	17	38	18	51	21	33	**	**
2025	7	13	**	**	04	57	13	15	17	37	18	50	21	32	**	**
2025	7	14	**	**	04	58	13	15	17	37	18	50	21	31	**	**
2025	7	15	**	**	04	59	13	15	17	37	18	49	21	30	**	**
2025	7	16	**	**	05	01	13	15	17	36	18	49	21	29	**	**
2025	7	17	**	**	05	02	13	15	17	36	18	48	21	27	**	**
2025	7	18	**	**	05	03	13	15	17	36	18	47	21	26	**	**
2025	7	19	**	**	05	05	13	15	17	35	18	47	21	25	**	**
2025	7	20	**	**	05	06	13	15	17	35	18	46	21	23	**	**
2025	7	21	**	**	05	08	13	15	17	34	18	45	21	22	**	**
2025	7	22	**	**	05	09	13	15	17	34	18	44	21	21	**	**
2025	7	23	**	**	05	11	13	15	17	33	18	44	21	19	**	**
2025	7	24	**	**	05	12	13	15	17	33	18	43	21	18	**	**
2025	7	25	**	**	05	14	13	16	17	32	18	42	21	16	**	**
2025	7	26	**	**	05	15	13	16	17	32	18	41	21	15	**	**
2025	7	27	**	**	05	17	13	15	17	31	18	40	21	13	**	**
2025	7	28	**	**	05	18	13	15	17	30	18	39	21	11	**	**
2025	7	29	**	**	05	20	13	15	17	30	18	38	21	10	25	04
2025	7	30	01	27	05	22	13	15	17	29	18	37	21	08	24	46
2025	7	31	01	45	05	23	13	15	17	28	18	36	21	06	24	35
2025	8	1	01	56	05	25	13	15	17	27	18	35	21	04	24	26
2025	8	2	02	05	05	27	13	15	17	27	18	34	21	03	24	19
2025	8	3	02	12	05	28	13	15	17	26	18	33	21	01	24	12
2025	8	4	02	19	05	30	13	15	17	25	18	32	20	59	24	06

NOTE: These times are in GMT, except between 0100 on Mar.30 and 0100 on Oct.26, when they are in BST (1 hour in advance of GMT).

Twilight = Start and End of Astronomical Twilight
 Shadow 1 = Times when the length of the shadow cast by a vertical stick is equal to its length plus length of its shadow at transit
 Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
 Transit = Time of Meridian passage of Sun

** ** indicates that the phenomenon does not occur

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18° Twilight		Sunrise	Transit	Shadow 1	Shadow 2	Sunset	18° Twilight		
Year	mth	d	h	m	h	m	h	m	h	m	h	m
2025	8	5	02	25	05	32	13	15	17	24	18	30
2025	8	6	02	31	05	33	13	15	17	23	18	29
2025	8	7	02	36	05	35	13	15	17	22	18	28
2025	8	8	02	41	05	37	13	15	17	21	18	27
2025	8	9	02	46	05	38	13	14	17	20	18	25
2025	8	10	02	50	05	40	13	14	17	19	18	24
2025	8	11	02	55	05	42	13	14	17	18	18	23
2025	8	12	02	59	05	44	13	14	17	17	18	21
2025	8	13	03	03	05	45	13	14	17	16	18	20
2025	8	14	03	07	05	47	13	14	17	15	18	18
2025	8	15	03	11	05	49	13	13	17	14	18	17
2025	8	16	03	15	05	51	13	13	17	13	18	15
2025	8	17	03	18	05	52	13	13	17	12	18	14
2025	8	18	03	22	05	54	13	13	17	10	18	12
2025	8	19	03	25	05	56	13	13	17	09	18	11
2025	8	20	03	29	05	58	13	12	17	08	18	09
2025	8	21	03	32	05	59	13	12	17	07	18	08
2025	8	22	03	35	06	01	13	12	17	05	18	06
2025	8	23	03	39	06	03	13	12	17	04	18	04
2025	8	24	03	42	06	04	13	11	17	03	18	03
2025	8	25	03	45	06	06	13	11	17	01	18	01
2025	8	26	03	48	06	08	13	11	17	00	17	59
2025	8	27	03	51	06	10	13	10	16	59	17	57
2025	8	28	03	54	06	11	13	10	16	57	17	56
2025	8	29	03	57	06	13	13	10	16	56	17	54
2025	8	30	03	59	06	15	13	10	16	55	17	52
2025	8	31	04	02	06	17	13	09	16	53	17	50
2025	9	1	04	05	06	18	13	09	16	52	17	49
2025	9	2	04	08	06	20	13	09	16	50	17	47
2025	9	3	04	10	06	22	13	08	16	49	17	45
2025	9	4	04	13	06	24	13	08	16	47	17	43
2025	9	5	04	16	06	25	13	08	16	46	17	41
2025	9	6	04	18	06	27	13	07	16	44	17	39
2025	9	7	04	21	06	29	13	07	16	42	17	37
2025	9	8	04	23	06	31	13	07	16	41	17	35
2025	9	9	04	26	06	32	13	06	16	39	17	33
2025	9	10	04	28	06	34	13	06	16	38	17	31
2025	9	11	04	30	06	36	13	05	16	36	17	29
2025	9	12	04	33	06	38	13	05	16	34	17	27
2025	9	13	04	35	06	39	13	05	16	33	17	25
2025	9	14	04	37	06	41	13	04	16	31	17	23
2025	9	15	04	40	06	43	13	04	16	29	17	21
2025	9	16	04	42	06	44	13	04	16	28	17	19
2025	9	17	04	44	06	46	13	03	16	26	17	17
2025	9	18	04	46	06	48	13	03	16	24	17	15
2025	9	19	04	49	06	50	13	03	16	22	17	13
2025	9	20	04	51	06	51	13	02	16	21	17	11
2025	9	21	04	53	06	53	13	02	16	19	17	09
2025	9	22	04	55	06	55	13	02	16	17	17	07
2025	9	23	04	57	06	57	13	01	16	15	17	05
2025	9	24	04	59	06	58	13	01	16	14	17	03
2025	9	25	05	01	07	00	13	01	16	12	17	01
2025	9	26	05	03	07	02	13	00	16	10	16	59
2025	9	27	05	06	07	04	13	00	16	08	16	57

NOTE: These times are in GMT, except between 0100 on Mar.30 and 0100 on Oct.26, when they are in BST (1 hour in advance of GMT).

Twilight = Start and End of Astronomical Twilight
 Shadow 1 = Times when the length of the shadow cast by a vertical stick is equal to its length plus length of its shadow at transit
 Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
 Transit = Time of Meridian passage of Sun

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

			18°						18°	
Civil Date			Twilight	Sunrise	Transit	Shadow 1	Shadow 2	Sunset	Twilight	
Year	mth	d	h m	h m	h m	h m	h m	h m	h m	h m
2025	9	28	05 08	07 06	13 00	16 07	16 54	18 52	20 50	
2025	9	29	05 10	07 07	12 59	16 05	16 52	18 50	20 47	
2025	9	30	05 12	07 09	12 59	16 03	16 50	18 48	20 45	
2025	10	1	05 14	07 11	12 59	16 01	16 48	18 45	20 42	
2025	10	2	05 15	07 13	12 58	15 59	16 46	18 43	20 39	
2025	10	3	05 17	07 14	12 58	15 58	16 44	18 40	20 37	
2025	10	4	05 19	07 16	12 58	15 56	16 42	18 38	20 34	
2025	10	5	05 21	07 18	12 57	15 54	16 40	18 36	20 32	
2025	10	6	05 23	07 20	12 57	15 52	16 38	18 33	20 29	
2025	10	7	05 25	07 22	12 57	15 50	16 35	18 31	20 27	
2025	10	8	05 27	07 23	12 56	15 49	16 33	18 28	20 25	
2025	10	9	05 29	07 25	12 56	15 47	16 31	18 26	20 22	
2025	10	10	05 31	07 27	12 56	15 45	16 29	18 24	20 20	
2025	10	11	05 33	07 29	12 56	15 43	16 27	18 21	20 17	
2025	10	12	05 34	07 31	12 55	15 41	16 25	18 19	20 15	
2025	10	13	05 36	07 33	12 55	15 40	16 23	18 17	20 13	
2025	10	14	05 38	07 34	12 55	15 38	16 21	18 14	20 10	
2025	10	15	05 40	07 36	12 55	15 36	16 19	18 12	20 08	
2025	10	16	05 42	07 38	12 54	15 34	16 17	18 10	20 06	
2025	10	17	05 43	07 40	12 54	15 33	16 15	18 08	20 04	
2025	10	18	05 45	07 42	12 54	15 31	16 13	18 05	20 02	
2025	10	19	05 47	07 44	12 54	15 29	16 10	18 03	20 00	
2025	10	20	05 49	07 46	12 54	15 27	16 08	18 01	19 57	
2025	10	21	05 51	07 47	12 54	15 26	16 06	17 59	19 55	
2025	10	22	05 52	07 49	12 53	15 24	16 04	17 57	19 53	
2025	10	23	05 54	07 51	12 53	15 22	16 02	17 54	19 51	
2025	10	24	05 56	07 53	12 53	15 21	16 00	17 52	19 49	
2025	10	25	05 58	07 55	12 53	15 19	15 59	17 50	19 47	
2025	10	26	04 59	06 57	11 53	14 17	14 57	16 48	18 45	
2025	10	27	05 01	06 59	11 53	14 16	14 55	16 46	18 44	
2025	10	28	05 03	07 01	11 53	14 14	14 53	16 44	18 42	
2025	10	29	05 04	07 03	11 53	14 13	14 51	16 42	18 40	
2025	10	30	05 06	07 04	11 53	14 11	14 49	16 40	18 38	
2025	10	31	05 08	07 06	11 53	14 10	14 47	16 38	18 36	
2025	11	1	05 09	07 08	11 53	14 08	14 45	16 36	18 35	
2025	11	2	05 11	07 10	11 53	14 06	14 44	16 34	18 33	
2025	11	3	05 13	07 12	11 53	14 05	14 42	16 32	18 31	
2025	11	4	05 14	07 14	11 53	14 04	14 40	16 30	18 30	
2025	11	5	05 16	07 16	11 53	14 02	14 38	16 28	18 28	
2025	11	6	05 18	07 18	11 53	14 01	14 37	16 27	18 27	
2025	11	7	05 19	07 20	11 53	13 59	14 35	16 25	18 25	
2025	11	8	05 21	07 22	11 53	13 58	14 33	16 23	18 24	
2025	11	9	05 22	07 24	11 53	13 57	14 32	16 21	18 22	
2025	11	10	05 24	07 25	11 53	13 55	14 30	16 20	18 21	
2025	11	11	05 26	07 27	11 53	13 54	14 29	16 18	18 20	
2025	11	12	05 27	07 29	11 53	13 53	14 27	16 16	18 18	
2025	11	13	05 29	07 31	11 53	13 52	14 26	16 15	18 17	
2025	11	14	05 30	07 33	11 53	13 51	14 24	16 13	18 16	
2025	11	15	05 32	07 35	11 54	13 49	14 23	16 12	18 15	
2025	11	16	05 33	07 37	11 54	13 48	14 22	16 10	18 13	
2025	11	17	05 35	07 38	11 54	13 47	14 20	16 09	18 12	
2025	11	18	05 36	07 40	11 54	13 46	14 19	16 07	18 11	
2025	11	19	05 38	07 42	11 54	13 45	14 18	16 06	18 10	
2025	11	20	05 39	07 44	11 55	13 44	14 17	16 05	18 09	

NOTE: These times are in GMT, except between 0100 on Mar.30 and 0100 on Oct.26, when they are in BST (1 hour in advance of GMT).

Twilight = Start and End of Astronomical Twilight
 Shadow 1 = Times when the length of the shadow cast by a vertical stick is equal to its length plus length of its shadow at transit
 Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
 Transit = Time of Meridian passage of Sun

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18° Twilight		Sunrise	Transit	Shadow 1	Shadow 2	Sunset	18° Twilight		
Year	mth	d	h	m	h	m	h	m	h	m	h	m
2025	11	21	05	41	07	46	11	55	13	44	14	15
2025	11	22	05	42	07	47	11	55	13	43	14	14
2025	11	23	05	43	07	49	11	55	13	42	14	13
2025	11	24	05	45	07	51	11	56	13	41	14	12
2025	11	25	05	46	07	53	11	56	13	40	14	11
2025	11	26	05	47	07	54	11	56	13	40	14	10
2025	11	27	05	49	07	56	11	57	13	39	14	10
2025	11	28	05	50	07	57	11	57	13	38	14	09
2025	11	29	05	51	07	59	11	57	13	38	14	08
2025	11	30	05	53	08	00	11	58	13	37	14	07
2025	12	1	05	54	08	02	11	58	13	37	14	07
2025	12	2	05	55	08	03	11	58	13	36	14	06
2025	12	3	05	56	08	05	11	59	13	36	14	05
2025	12	4	05	57	08	06	11	59	13	36	14	05
2025	12	5	05	58	08	08	12	00	13	35	14	05
2025	12	6	05	59	08	09	12	00	13	35	14	04
2025	12	7	06	00	08	10	12	00	13	35	14	04
2025	12	8	06	01	08	11	12	01	13	35	14	04
2025	12	9	06	02	08	13	12	01	13	35	14	03
2025	12	10	06	03	08	14	12	02	13	35	14	03
2025	12	11	06	04	08	15	12	02	13	35	14	03
2025	12	12	06	05	08	16	12	03	13	35	14	03
2025	12	13	06	06	08	17	12	03	13	35	14	03
2025	12	14	06	07	08	18	12	04	13	35	14	03
2025	12	15	06	08	08	19	12	04	13	35	14	03
2025	12	16	06	08	08	20	12	05	13	35	14	03
2025	12	17	06	09	08	20	12	05	13	36	14	04
2025	12	18	06	10	08	21	12	06	13	36	14	04
2025	12	19	06	10	08	22	12	06	13	36	14	04
2025	12	20	06	11	08	22	12	07	13	37	14	05
2025	12	21	06	11	08	23	12	07	13	37	14	05
2025	12	22	06	12	08	23	12	08	13	38	14	06
2025	12	23	06	12	08	24	12	08	13	38	14	06
2025	12	24	06	13	08	24	12	09	13	39	14	07
2025	12	25	06	13	08	24	12	09	13	40	14	08
2025	12	26	06	13	08	25	12	10	13	40	14	08
2025	12	27	06	14	08	25	12	10	13	41	14	09
2025	12	28	06	14	08	25	12	11	13	42	14	10
2025	12	29	06	14	08	25	12	11	13	43	14	11
2025	12	30	06	14	08	25	12	12	13	44	14	12
2025	12	31	06	14	08	25	12	12	13	44	14	13

NOTE: These times are in GMT, except between 0100 on Mar.30 and 0100 on Oct.26, when they are in BST (1 hour in advance of GMT).

- Twilight = Start and End of Astronomical Twilight
- Shadow 1 = Times when the length of the shadow cast by a vertical stick is equal to its length plus length of its shadow at transit
- Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
- Transit = Time of Meridian passage of Sun

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

			18°						18°	
Civil Date			Twilight	Sunrise	Transit	Shadow 1	Shadow 2	Sunset	Twilight	
Year	mth	d	h m	h m	h m	h m	h m	h m	h m	h m
2026	1	1	06 14	08 25	12 13	13 46	14 14	16 00	18 11	
2026	1	2	06 14	08 25	12 13	13 46	14 15	16 02	18 12	
2026	1	3	06 14	08 24	12 13	13 47	14 16	16 03	18 13	
2026	1	4	06 14	08 24	12 14	13 48	14 17	16 04	18 14	
2026	1	5	06 14	08 24	12 14	13 50	14 19	16 05	18 15	
2026	1	6	06 14	08 23	12 15	13 51	14 20	16 07	18 16	
2026	1	7	06 14	08 23	12 15	13 52	14 21	16 08	18 17	
2026	1	8	06 13	08 22	12 16	13 53	14 22	16 09	18 18	
2026	1	9	06 13	08 22	12 16	13 54	14 24	16 11	18 19	
2026	1	10	06 13	08 21	12 16	13 55	14 25	16 12	18 21	
2026	1	11	06 12	08 20	12 17	13 57	14 27	16 14	18 22	
2026	1	12	06 12	08 19	12 17	13 58	14 28	16 15	18 23	
2026	1	13	06 11	08 19	12 18	13 59	14 30	16 17	18 24	
2026	1	14	06 11	08 18	12 18	14 01	14 31	16 19	18 26	
2026	1	15	06 10	08 17	12 18	14 02	14 33	16 20	18 27	
2026	1	16	06 10	08 16	12 19	14 03	14 34	16 22	18 28	
2026	1	17	06 09	08 15	12 19	14 05	14 36	16 24	18 30	
2026	1	18	06 08	08 14	12 19	14 06	14 38	16 25	18 31	
2026	1	19	06 07	08 13	12 20	14 07	14 39	16 27	18 33	
2026	1	20	06 06	08 11	12 20	14 09	14 41	16 29	18 34	
2026	1	21	06 06	08 10	12 20	14 10	14 43	16 31	18 36	
2026	1	22	06 05	08 09	12 21	14 12	14 44	16 33	18 37	
2026	1	23	06 04	08 08	12 21	14 13	14 46	16 34	18 39	
2026	1	24	06 03	08 06	12 21	14 15	14 48	16 36	18 40	
2026	1	25	06 02	08 05	12 21	14 16	14 49	16 38	18 42	
2026	1	26	06 00	08 03	12 21	14 18	14 51	16 40	18 43	
2026	1	27	05 59	08 02	12 22	14 19	14 53	16 42	18 45	
2026	1	28	05 58	08 00	12 22	14 21	14 55	16 44	18 46	
2026	1	29	05 57	07 59	12 22	14 22	14 57	16 46	18 48	
2026	1	30	05 56	07 57	12 22	14 24	14 58	16 48	18 50	
2026	1	31	05 54	07 56	12 22	14 25	15 00	16 50	18 51	
2026	2	1	05 53	07 54	12 22	14 27	15 02	16 52	18 53	
2026	2	2	05 52	07 52	12 23	14 28	15 04	16 54	18 54	
2026	2	3	05 50	07 51	12 23	14 30	15 06	16 56	18 56	
2026	2	4	05 49	07 49	12 23	14 32	15 08	16 58	18 58	
2026	2	5	05 47	07 47	12 23	14 33	15 09	17 00	18 59	
2026	2	6	05 46	07 45	12 23	14 35	15 11	17 02	19 01	
2026	2	7	05 44	07 43	12 23	14 36	15 13	17 03	19 03	
2026	2	8	05 42	07 41	12 23	14 38	15 15	17 05	19 05	
2026	2	9	05 41	07 40	12 23	14 39	15 17	17 07	19 06	
2026	2	10	05 39	07 38	12 23	14 41	15 19	17 09	19 08	
2026	2	11	05 37	07 36	12 23	14 42	15 20	17 11	19 10	
2026	2	12	05 36	07 34	12 23	14 44	15 22	17 13	19 12	
2026	2	13	05 34	07 32	12 23	14 45	15 24	17 15	19 13	
2026	2	14	05 32	07 30	12 23	14 47	15 26	17 17	19 15	
2026	2	15	05 30	07 28	12 23	14 48	15 28	17 19	19 17	
2026	2	16	05 28	07 25	12 23	14 50	15 30	17 21	19 19	
2026	2	17	05 26	07 23	12 23	14 51	15 31	17 23	19 21	
2026	2	18	05 24	07 21	12 23	14 53	15 33	17 25	19 22	
2026	2	19	05 22	07 19	12 23	14 54	15 35	17 27	19 24	
2026	2	20	05 20	07 17	12 23	14 56	15 37	17 29	19 26	
2026	2	21	05 18	07 15	12 23	14 57	15 38	17 31	19 28	
2026	2	22	05 16	07 13	12 22	14 59	15 40	17 33	19 30	
2026	2	23	05 14	07 10	12 22	15 00	15 42	17 35	19 32	

NOTE: These times are in GMT, except between 0100 on Mar.29 and 0100 on Oct.25, when they are in BST (1 hour in advance of GMT).

- Twilight = Start and End of Astronomical Twilight
- Shadow 1 = Times when the length of the shadow cast by a vertical stick is equal to its length plus length of its shadow at transit
- Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
- Transit = Time of Meridian passage of Sun

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18°		Sunrise		Transit		Shadow 1		Shadow 2		Sunset		18°	
Year	mth	d	h	m	h	m	h	m	h	m	h	m	h	m	h	m
2026	2	24	05	12	07	08	12	22	15	02	15	44	17	37	19	33
2026	2	25	05	10	07	06	12	22	15	03	15	45	17	39	19	35
2026	2	26	05	08	07	04	12	22	15	04	15	47	17	41	19	37
2026	2	27	05	05	07	01	12	22	15	06	15	49	17	43	19	39
2026	2	28	05	03	06	59	12	21	15	07	15	51	17	45	19	41
2026	3	1	05	01	06	57	12	21	15	09	15	52	17	47	19	43
2026	3	2	04	59	06	54	12	21	15	10	15	54	17	49	19	45
2026	3	3	04	56	06	52	12	21	15	11	15	56	17	50	19	47
2026	3	4	04	54	06	50	12	21	15	13	15	57	17	52	19	49
2026	3	5	04	51	06	48	12	20	15	14	15	59	17	54	19	51
2026	3	6	04	49	06	45	12	20	15	15	16	00	17	56	19	53
2026	3	7	04	47	06	43	12	20	15	17	16	02	17	58	19	55
2026	3	8	04	44	06	40	12	20	15	18	16	04	18	00	19	57
2026	3	9	04	42	06	38	12	19	15	19	16	05	18	02	19	59
2026	3	10	04	39	06	36	12	19	15	20	16	07	18	04	20	01
2026	3	11	04	36	06	33	12	19	15	22	16	08	18	06	20	03
2026	3	12	04	34	06	31	12	19	15	23	16	10	18	07	20	05
2026	3	13	04	31	06	29	12	18	15	24	16	11	18	09	20	07
2026	3	14	04	29	06	26	12	18	15	25	16	13	18	11	20	09
2026	3	15	04	26	06	24	12	18	15	26	16	15	18	13	20	11
2026	3	16	04	23	06	21	12	18	15	28	16	16	18	15	20	13
2026	3	17	04	21	06	19	12	17	15	29	16	18	18	17	20	15
2026	3	18	04	18	06	16	12	17	15	30	16	19	18	19	20	18
2026	3	19	04	15	06	14	12	17	15	31	16	21	18	20	20	20
2026	3	20	04	12	06	12	12	16	15	32	16	22	18	22	20	22
2026	3	21	04	10	06	09	12	16	15	33	16	24	18	24	20	24
2026	3	22	04	07	06	07	12	16	15	35	16	25	18	26	20	26
2026	3	23	04	04	06	04	12	15	15	36	16	26	18	28	20	29
2026	3	24	04	01	06	02	12	15	15	37	16	28	18	30	20	31
2026	3	25	03	58	05	59	12	15	15	38	16	29	18	31	20	33
2026	3	26	03	55	05	57	12	15	15	39	16	31	18	33	20	36
2026	3	27	03	52	05	55	12	14	15	40	16	32	18	35	20	38
2026	3	28	03	50	05	52	12	14	15	41	16	33	18	37	20	40
2026	3	29	04	47	06	50	13	14	16	42	17	35	19	39	21	43
2026	3	30	04	44	06	47	13	13	16	43	17	36	19	41	21	45
2026	3	31	04	40	06	45	13	13	16	44	17	38	19	42	21	48
2026	4	1	04	37	06	43	13	13	16	45	17	39	19	44	21	50
2026	4	2	04	34	06	40	13	12	16	46	17	40	19	46	21	53
2026	4	3	04	31	06	38	13	12	16	47	17	42	19	48	21	55
2026	4	4	04	28	06	35	13	12	16	48	17	43	19	50	21	58
2026	4	5	04	25	06	33	13	12	16	49	17	44	19	51	22	00
2026	4	6	04	22	06	31	13	11	16	50	17	45	19	53	22	03
2026	4	7	04	19	06	28	13	11	16	51	17	47	19	55	22	06
2026	4	8	04	15	06	26	13	11	16	52	17	48	19	57	22	08
2026	4	9	04	12	06	23	13	10	16	53	17	49	19	59	22	11
2026	4	10	04	09	06	21	13	10	16	54	17	51	20	01	22	14
2026	4	11	04	05	06	19	13	10	16	54	17	52	20	02	22	17
2026	4	12	04	02	06	16	13	10	16	55	17	53	20	04	22	20
2026	4	13	03	59	06	14	13	09	16	56	17	54	20	06	22	23
2026	4	14	03	55	06	12	13	09	16	57	17	56	20	08	22	26
2026	4	15	03	52	06	09	13	09	16	58	17	57	20	10	22	29
2026	4	16	03	48	06	07	13	09	16	59	17	58	20	12	22	32
2026	4	17	03	45	06	05	13	08	17	00	17	59	20	13	22	35
2026	4	18	03	41	06	03	13	08	17	01	18	00	20	15	22	38

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18°		Sunrise		Transit		Shadow 1		Shadow 2		Sunset		18°	
Year	mth	d	h	m	h	m	h	m	h	m	h	m	h	m	h	m
2026	4	19	03	38	06	00	13	08	17	01	18	02	20	17	22	41
2026	4	20	03	34	05	58	13	08	17	02	18	03	20	19	22	45
2026	4	21	03	30	05	56	13	08	17	03	18	04	20	21	22	48
2026	4	22	03	26	05	54	13	07	17	04	18	05	20	22	22	51
2026	4	23	03	23	05	51	13	07	17	05	18	06	20	24	22	55
2026	4	24	03	19	05	49	13	07	17	05	18	08	20	26	22	59
2026	4	25	03	15	05	47	13	07	17	06	18	09	20	28	23	02
2026	4	26	03	11	05	45	13	07	17	07	18	10	20	30	23	06
2026	4	27	03	07	05	43	13	07	17	08	18	11	20	32	23	10
2026	4	28	03	02	05	41	13	06	17	09	18	12	20	33	23	14
2026	4	29	02	58	05	39	13	06	17	09	18	13	20	35	23	18
2026	4	30	02	54	05	37	13	06	17	10	18	14	20	37	23	22
2026	5	1	02	49	05	35	13	06	17	11	18	15	20	39	23	27
2026	5	2	02	45	05	33	13	06	17	12	18	17	20	40	23	31
2026	5	3	02	40	05	31	13	06	17	12	18	18	20	42	23	36
2026	5	4	02	35	05	29	13	06	17	13	18	19	20	44	23	41
2026	5	5	02	30	05	27	13	06	17	14	18	20	20	46	23	46
2026	5	6	02	25	05	25	13	06	17	15	18	21	20	48	23	51
2026	5	7	02	19	05	23	13	05	17	15	18	22	20	49	23	57
2026	5	8	02	13	05	21	13	05	17	16	18	23	20	51	24	04
2026	5	9	02	07	05	19	13	05	17	17	18	24	20	53	24	11
2026	5	10	02	00	05	17	13	05	17	17	18	25	20	55	24	18
2026	5	11	01	52	05	16	13	05	17	18	18	26	20	56	24	28
2026	5	12	01	42	05	14	13	05	17	19	18	27	20	58	24	40
2026	5	13	01	30	05	12	13	05	17	19	18	28	21	00	**	**
2026	5	14	**	**	05	10	13	05	17	20	18	29	21	01	**	**
2026	5	15	**	**	05	09	13	05	17	21	18	30	21	03	**	**
2026	5	16	**	**	05	07	13	05	17	21	18	31	21	05	**	**
2026	5	17	**	**	05	06	13	05	17	22	18	32	21	06	**	**
2026	5	18	**	**	05	04	13	05	17	23	18	33	21	08	**	**
2026	5	19	**	**	05	03	13	05	17	23	18	34	21	09	**	**
2026	5	20	**	**	05	01	13	05	17	24	18	35	21	11	**	**
2026	5	21	**	**	05	00	13	06	17	24	18	35	21	12	**	**
2026	5	22	**	**	04	58	13	06	17	25	18	36	21	14	**	**
2026	5	23	**	**	04	57	13	06	17	26	18	37	21	15	**	**
2026	5	24	**	**	04	56	13	06	17	26	18	38	21	17	**	**
2026	5	25	**	**	04	54	13	06	17	27	18	39	21	18	**	**
2026	5	26	**	**	04	53	13	06	17	27	18	40	21	20	**	**
2026	5	27	**	**	04	52	13	06	17	28	18	40	21	21	**	**
2026	5	28	**	**	04	51	13	06	17	28	18	41	21	22	**	**
2026	5	29	**	**	04	50	13	06	17	29	18	42	21	24	**	**
2026	5	30	**	**	04	49	13	06	17	30	18	43	21	25	**	**
2026	5	31	**	**	04	48	13	07	17	30	18	43	21	26	**	**
2026	6	1	**	**	04	47	13	07	17	31	18	44	21	27	**	**
2026	6	2	**	**	04	46	13	07	17	31	18	45	21	29	**	**
2026	6	3	**	**	04	45	13	07	17	32	18	45	21	30	**	**
2026	6	4	**	**	04	44	13	07	17	32	18	46	21	31	**	**
2026	6	5	**	**	04	44	13	07	17	32	18	47	21	32	**	**
2026	6	6	**	**	04	43	13	08	17	33	18	47	21	33	**	**
2026	6	7	**	**	04	42	13	08	17	33	18	48	21	34	**	**
2026	6	8	**	**	04	42	13	08	17	34	18	48	21	35	**	**
2026	6	9	**	**	04	41	13	08	17	34	18	49	21	35	**	**
2026	6	10	**	**	04	41	13	08	17	35	18	50	21	36	**	**
2026	6	11	**	**	04	41	13	09	17	35	18	50	21	37	**	**

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18°		Sunrise	Transit	Shadow 1	Shadow 2	Sunset	18°		
Year	mth	d	h	m	h	m	h	m	h	m	h	m
2026	6	12	**	**	04 40	13 09	17 35	18 50	21 38	**	**	
2026	6	13	**	**	04 40	13 09	17 36	18 51	21 38	**	**	
2026	6	14	**	**	04 40	13 09	17 36	18 51	21 39	**	**	
2026	6	15	**	**	04 40	13 09	17 36	18 52	21 40	**	**	
2026	6	16	**	**	04 39	13 10	17 37	18 52	21 40	**	**	
2026	6	17	**	**	04 39	13 10	17 37	18 52	21 40	**	**	
2026	6	18	**	**	04 39	13 10	17 37	18 53	21 41	**	**	
2026	6	19	**	**	04 40	13 10	17 37	18 53	21 41	**	**	
2026	6	20	**	**	04 40	13 11	17 38	18 53	21 41	**	**	
2026	6	21	**	**	04 40	13 11	17 38	18 53	21 42	**	**	
2026	6	22	**	**	04 40	13 11	17 38	18 54	21 42	**	**	
2026	6	23	**	**	04 40	13 11	17 38	18 54	21 42	**	**	
2026	6	24	**	**	04 41	13 11	17 38	18 54	21 42	**	**	
2026	6	25	**	**	04 41	13 12	17 39	18 54	21 42	**	**	
2026	6	26	**	**	04 42	13 12	17 39	18 54	21 42	**	**	
2026	6	27	**	**	04 42	13 12	17 39	18 54	21 42	**	**	
2026	6	28	**	**	04 43	13 12	17 39	18 54	21 42	**	**	
2026	6	29	**	**	04 43	13 12	17 39	18 54	21 41	**	**	
2026	6	30	**	**	04 44	13 13	17 39	18 54	21 41	**	**	
2026	7	1	**	**	04 45	13 13	17 39	18 54	21 41	**	**	
2026	7	2	**	**	04 45	13 13	17 39	18 54	21 40	**	**	
2026	7	3	**	**	04 46	13 13	17 39	18 54	21 40	**	**	
2026	7	4	**	**	04 47	13 13	17 39	18 54	21 39	**	**	
2026	7	5	**	**	04 48	13 14	17 39	18 53	21 39	**	**	
2026	7	6	**	**	04 49	13 14	17 39	18 53	21 38	**	**	
2026	7	7	**	**	04 50	13 14	17 39	18 53	21 37	**	**	
2026	7	8	**	**	04 51	13 14	17 39	18 52	21 37	**	**	
2026	7	9	**	**	04 52	13 14	17 38	18 52	21 36	**	**	
2026	7	10	**	**	04 53	13 14	17 38	18 52	21 35	**	**	
2026	7	11	**	**	04 54	13 14	17 38	18 51	21 34	**	**	
2026	7	12	**	**	04 55	13 15	17 38	18 51	21 33	**	**	
2026	7	13	**	**	04 57	13 15	17 37	18 50	21 32	**	**	
2026	7	14	**	**	04 58	13 15	17 37	18 50	21 31	**	**	
2026	7	15	**	**	04 59	13 15	17 37	18 49	21 30	**	**	
2026	7	16	**	**	05 00	13 15	17 37	18 49	21 29	**	**	
2026	7	17	**	**	05 02	13 15	17 36	18 48	21 28	**	**	
2026	7	18	**	**	05 03	13 15	17 36	18 48	21 26	**	**	
2026	7	19	**	**	05 05	13 15	17 35	18 47	21 25	**	**	
2026	7	20	**	**	05 06	13 15	17 35	18 46	21 24	**	**	
2026	7	21	**	**	05 07	13 15	17 34	18 45	21 22	**	**	
2026	7	22	**	**	05 09	13 15	17 34	18 45	21 21	**	**	
2026	7	23	**	**	05 10	13 15	17 33	18 44	21 20	**	**	
2026	7	24	**	**	05 12	13 15	17 33	18 43	21 18	**	**	
2026	7	25	**	**	05 13	13 16	17 32	18 42	21 17	**	**	
2026	7	26	**	**	05 15	13 16	17 32	18 41	21 15	**	**	
2026	7	27	**	**	05 17	13 15	17 31	18 40	21 13	**	**	
2026	7	28	**	**	05 18	13 15	17 30	18 39	21 12	**	**	
2026	7	29	**	**	05 20	13 15	17 30	18 38	21 10	**	**	
2026	7	30	**	**	05 21	13 15	17 29	18 37	21 08	24	49	
2026	7	31	01	42	05 23	13 15	17 28	18 36	21 07	24	37	
2026	8	1	01	54	05 25	13 15	17 27	18 35	21 05	24	28	
2026	8	2	02	03	05 26	13 15	17 27	18 34	21 03	24	20	
2026	8	3	02	11	05 28	13 15	17 26	18 33	21 01	24	13	
2026	8	4	02	17	05 30	13 15	17 25	18 32	20 59	24	07	

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18°		Sunrise		Transit		Shadow 1		Shadow 2		Sunset		18°	
Year	mth	d	h	m	h	m	h	m	h	m	h	m	h	m	h	m
2026	8	5	02	24	05	31	13	15	17	24	18	31	20	58	24	01
2026	8	6	02	29	05	33	13	15	17	23	18	29	20	56	23	56
2026	8	7	02	35	05	35	13	15	17	22	18	28	20	54	23	50
2026	8	8	02	40	05	36	13	15	17	21	18	27	20	52	23	45
2026	8	9	02	45	05	38	13	14	17	20	18	26	20	50	23	40
2026	8	10	02	49	05	40	13	14	17	20	18	24	20	48	23	35
2026	8	11	02	54	05	41	13	14	17	19	18	23	20	46	23	31
2026	8	12	02	58	05	43	13	14	17	17	18	22	20	44	23	26
2026	8	13	03	02	05	45	13	14	17	16	18	20	20	42	23	22
2026	8	14	03	06	05	47	13	14	17	15	18	19	20	39	23	18
2026	8	15	03	10	05	48	13	13	17	14	18	17	20	37	23	14
2026	8	16	03	14	05	50	13	13	17	13	18	16	20	35	23	10
2026	8	17	03	17	05	52	13	13	17	12	18	14	20	33	23	05
2026	8	18	03	21	05	54	13	13	17	11	18	13	20	31	23	02
2026	8	19	03	25	05	55	13	13	17	10	18	11	20	29	22	58
2026	8	20	03	28	05	57	13	12	17	08	18	10	20	26	22	54
2026	8	21	03	31	05	59	13	12	17	07	18	08	20	24	22	50
2026	8	22	03	35	06	01	13	12	17	06	18	06	20	22	22	46
2026	8	23	03	38	06	02	13	12	17	04	18	05	20	20	22	43
2026	8	24	03	41	06	04	13	11	17	03	18	03	20	17	22	39
2026	8	25	03	44	06	06	13	11	17	02	18	01	20	15	22	35
2026	8	26	03	47	06	08	13	11	17	00	18	00	20	13	22	32
2026	8	27	03	50	06	09	13	10	16	59	17	58	20	10	22	28
2026	8	28	03	53	06	11	13	10	16	58	17	56	20	08	22	25
2026	8	29	03	56	06	13	13	10	16	56	17	54	20	06	22	21
2026	8	30	03	59	06	15	13	10	16	55	17	53	20	03	22	18
2026	8	31	04	02	06	16	13	09	16	53	17	51	20	01	22	15
2026	9	1	04	04	06	18	13	09	16	52	17	49	19	59	22	11
2026	9	2	04	07	06	20	13	09	16	50	17	47	19	56	22	08
2026	9	3	04	10	06	21	13	08	16	49	17	45	19	54	22	05
2026	9	4	04	12	06	23	13	08	16	47	17	43	19	52	22	01
2026	9	5	04	15	06	25	13	08	16	46	17	42	19	49	21	58
2026	9	6	04	18	06	27	13	07	16	44	17	40	19	47	21	55
2026	9	7	04	20	06	28	13	07	16	43	17	38	19	44	21	52
2026	9	8	04	23	06	30	13	07	16	41	17	36	19	42	21	49
2026	9	9	04	25	06	32	13	06	16	40	17	34	19	39	21	46
2026	9	10	04	27	06	34	13	06	16	38	17	32	19	37	21	42
2026	9	11	04	30	06	35	13	06	16	36	17	30	19	35	21	39
2026	9	12	04	32	06	37	13	05	16	35	17	28	19	32	21	36
2026	9	13	04	35	06	39	13	05	16	33	17	26	19	30	21	33
2026	9	14	04	37	06	41	13	05	16	31	17	24	19	27	21	30
2026	9	15	04	39	06	42	13	04	16	30	17	22	19	25	21	27
2026	9	16	04	41	06	44	13	04	16	28	17	20	19	22	21	24
2026	9	17	04	44	06	46	13	03	16	26	17	18	19	20	21	21
2026	9	18	04	46	06	48	13	03	16	25	17	16	19	18	21	18
2026	9	19	04	48	06	49	13	03	16	23	17	14	19	15	21	16
2026	9	20	04	50	06	51	13	02	16	21	17	12	19	13	21	13
2026	9	21	04	52	06	53	13	02	16	19	17	10	19	10	21	10
2026	9	22	04	55	06	55	13	02	16	18	17	08	19	08	21	07
2026	9	23	04	57	06	56	13	01	16	16	17	05	19	05	21	04
2026	9	24	04	59	06	58	13	01	16	14	17	03	19	03	21	01
2026	9	25	05	01	07	00	13	01	16	12	17	01	19	00	20	59
2026	9	26	05	03	07	02	13	00	16	11	16	59	18	58	20	56
2026	9	27	05	05	07	03	13	00	16	09	16	57	18	55	20	53

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 Shadow 2 = Times when the length of the shadow cast by a vertical stick is equal to twice its length plus length of its shadow at transit
 Transit = Time of Meridian passage of Sun

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14
Latitude N53 28

Civil Date			18°		Sunrise		Transit		Shadow 1		Shadow 2		Sunset		18°	
Year	mth	d	h	m	h	m	h	m	h	m	h	m	h	m	h	m
2026	9	28	05	07	07	05	13	00	16	07	16	55	18	53	20	51
2026	9	29	05	09	07	07	12	59	16	05	16	53	18	51	20	48
2026	9	30	05	11	07	09	12	59	16	03	16	51	18	48	20	45
2026	10	1	05	13	07	10	12	59	16	02	16	49	18	46	20	43
2026	10	2	05	15	07	12	12	58	16	00	16	46	18	43	20	40
2026	10	3	05	17	07	14	12	58	15	58	16	44	18	41	20	38
2026	10	4	05	19	07	16	12	58	15	56	16	42	18	39	20	35
2026	10	5	05	21	07	18	12	57	15	54	16	40	18	36	20	32
2026	10	6	05	23	07	19	12	57	15	53	16	38	18	34	20	30
2026	10	7	05	25	07	21	12	57	15	51	16	36	18	31	20	28
2026	10	8	05	27	07	23	12	56	15	49	16	34	18	29	20	25
2026	10	9	05	28	07	25	12	56	15	47	16	32	18	27	20	23
2026	10	10	05	30	07	27	12	56	15	45	16	30	18	24	20	20
2026	10	11	05	32	07	28	12	56	15	44	16	27	18	22	20	18
2026	10	12	05	34	07	30	12	55	15	42	16	25	18	20	20	16
2026	10	13	05	36	07	32	12	55	15	40	16	23	18	17	20	13
2026	10	14	05	38	07	34	12	55	15	38	16	21	18	15	20	11
2026	10	15	05	39	07	36	12	55	15	37	16	19	18	13	20	09
2026	10	16	05	41	07	38	12	55	15	35	16	17	18	10	20	07
2026	10	17	05	43	07	40	12	54	15	33	16	15	18	08	20	04
2026	10	18	05	45	07	41	12	54	15	31	16	13	18	06	20	02
2026	10	19	05	47	07	43	12	54	15	30	16	11	18	04	20	00
2026	10	20	05	48	07	45	12	54	15	28	16	09	18	02	19	58
2026	10	21	05	50	07	47	12	54	15	26	16	07	17	59	19	56
2026	10	22	05	52	07	49	12	53	15	24	16	05	17	57	19	54
2026	10	23	05	54	07	51	12	53	15	23	16	03	17	55	19	52
2026	10	24	05	55	07	53	12	53	15	21	16	01	17	53	19	50
2026	10	25	04	57	06	55	11	53	14	19	14	59	16	51	18	48
2026	10	26	04	59	06	56	11	53	14	18	14	57	16	49	18	46
2026	10	27	05	01	06	58	11	53	14	16	14	55	16	47	18	44
2026	10	28	05	02	07	00	11	53	14	15	14	53	16	44	18	42
2026	10	29	05	04	07	02	11	53	14	13	14	51	16	42	18	40
2026	10	30	05	06	07	04	11	53	14	11	14	49	16	40	18	39
2026	10	31	05	07	07	06	11	53	14	10	14	48	16	38	18	37
2026	11	1	05	09	07	08	11	53	14	08	14	46	16	36	18	35
2026	11	2	05	11	07	10	11	52	14	07	14	44	16	34	18	33
2026	11	3	05	12	07	12	11	52	14	05	14	42	16	33	18	32
2026	11	4	05	14	07	14	11	53	14	04	14	41	16	31	18	30
2026	11	5	05	16	07	15	11	53	14	02	14	39	16	29	18	29
2026	11	6	05	17	07	17	11	53	14	01	14	37	16	27	18	27
2026	11	7	05	19	07	19	11	53	14	00	14	35	16	25	18	26
2026	11	8	05	20	07	21	11	53	13	58	14	34	16	23	18	24
2026	11	9	05	22	07	23	11	53	13	57	14	32	16	22	18	23
2026	11	10	05	24	07	25	11	53	13	56	14	31	16	20	18	21
2026	11	11	05	25	07	27	11	53	13	54	14	29	16	18	18	20
2026	11	12	05	27	07	29	11	53	13	53	14	28	16	17	18	19
2026	11	13	05	28	07	31	11	53	13	52	14	26	16	15	18	17
2026	11	14	05	30	07	33	11	53	13	51	14	25	16	14	18	16
2026	11	15	05	31	07	34	11	54	13	50	14	23	16	12	18	15
2026	11	16	05	33	07	36	11	54	13	49	14	22	16	11	18	14
2026	11	17	05	34	07	38	11	54	13	48	14	21	16	09	18	13
2026	11	18	05	36	07	40	11	54	13	46	14	19	16	08	18	12
2026	11	19	05	37	07	42	11	54	13	45	14	18	16	06	18	11
2026	11	20	05	39	07	43	11	55	13	45	14	17	16	05	18	10

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Computed on 27-Jan-2025

M13 9WL

Longitude W002 14

Latitude N53 28

Civil Date			18° Twilight		Sunrise	Transit	Shadow 1	Shadow 2	Sunset	18° Twilight		
Year	mth	d	h	m	h	m	h	m	h	m	h	m
2026	11	21	05	40	07	45	11	55	13	44	14	16
2026	11	22	05	42	07	47	11	55	13	43	14	15
2026	11	23	05	43	07	49	11	55	13	42	14	14
2026	11	24	05	44	07	50	11	56	13	41	14	13
2026	11	25	05	46	07	52	11	56	13	40	14	12
2026	11	26	05	47	07	54	11	56	13	40	14	11
2026	11	27	05	48	07	55	11	57	13	39	14	10
2026	11	28	05	50	07	57	11	57	13	38	14	09
2026	11	29	05	51	07	59	11	57	13	38	14	08
2026	11	30	05	52	08	00	11	58	13	37	14	07
2026	12	1	05	53	08	02	11	58	13	37	14	07
2026	12	2	05	55	08	03	11	58	13	37	14	06
2026	12	3	05	56	08	05	11	59	13	36	14	06
2026	12	4	05	57	08	06	11	59	13	36	14	05
2026	12	5	05	58	08	07	12	00	13	35	14	05
2026	12	6	05	59	08	09	12	00	13	35	14	04
2026	12	7	06	00	08	10	12	00	13	35	14	04
2026	12	8	06	01	08	11	12	01	13	35	14	04
2026	12	9	06	02	08	12	12	01	13	35	14	03
2026	12	10	06	03	08	14	12	02	13	35	14	03
2026	12	11	06	04	08	15	12	02	13	35	14	03
2026	12	12	06	05	08	16	12	03	13	35	14	03
2026	12	13	06	06	08	17	12	03	13	35	14	03
2026	12	14	06	07	08	18	12	04	13	35	14	03
2026	12	15	06	07	08	19	12	04	13	35	14	03
2026	12	16	06	08	08	19	12	05	13	35	14	03
2026	12	17	06	09	08	20	12	05	13	36	14	04
2026	12	18	06	10	08	21	12	06	13	36	14	04
2026	12	19	06	10	08	22	12	06	13	36	14	04
2026	12	20	06	11	08	22	12	07	13	37	14	05
2026	12	21	06	11	08	23	12	07	13	37	14	05
2026	12	22	06	12	08	23	12	08	13	38	14	06
2026	12	23	06	12	08	24	12	08	13	38	14	06
2026	12	24	06	13	08	24	12	08	13	39	14	07
2026	12	25	06	13	08	24	12	09	13	40	14	07
2026	12	26	06	13	08	25	12	09	13	40	14	08
2026	12	27	06	14	08	25	12	10	13	41	14	09
2026	12	28	06	14	08	25	12	10	13	42	14	10
2026	12	29	06	14	08	25	12	11	13	43	14	11
2026	12	30	06	14	08	25	12	11	13	43	14	12
2026	12	31	06	14	08	25	12	12	13	44	14	13

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