

2005

Moon Parallax and Semi-diameter

		Lower Limb																																							
		Altitude degrees																																							
		0		7		14		21		28		35		42		49		56		63		70		80		90															
		'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t	'	a	'	t
Jan 1	1	69.8 ⁻⁶	6	69.4 ⁻¹⁸	6	68.2 ⁻²⁹	6	66.2 ⁻⁴⁰	5	63.4 ⁻⁵⁰	5	59.9 ⁻⁶⁰	5	55.7 ⁻⁶⁹	4	51.0 ⁻⁷⁶	4	45.6 ⁻⁸³	4	39.9 ⁻⁸⁸	3	33.7 ⁻⁹³	2	24.5 ⁻⁹⁶	2	15.0															
Jan 2	2	70.5 ⁻⁶	7	70.1 ⁻¹⁸	7	68.9 ⁻²⁹	7	66.8 ⁻⁴⁰	7	64.0 ⁻⁵¹	6	60.5 ⁻⁶¹	6	56.3 ⁻⁶⁹	6	51.5 ⁻⁷⁷	5	46.1 ⁻⁸⁴	4	40.3 ⁻⁸⁹	4	34.1 ⁻⁹⁴	3	24.7 ⁻⁹⁷	2	15.1															
Jan 3	3	71.4 ⁻⁶	9	71.0 ⁻¹⁸	8	69.7 ⁻³⁰	8	67.7 ⁻⁴¹	8	64.8 ⁻⁵²	8	61.2 ⁻⁶¹	7	57.0 ⁻⁷⁰	7	52.1 ⁻⁷⁸	6	46.7 ⁻⁸⁵	5	40.8 ⁻⁹⁰	5	34.5 ⁻⁹⁵	4	25.0 ⁻⁹⁸	2	15.3															
Jan 4	4	72.4 ⁻⁶	10	72.0 ⁻¹⁸	10	70.7 ⁻³⁰	9	68.6 ⁻⁴²	9	65.8 ⁻⁵²	9	62.1 ⁻⁶²	8	57.8 ⁻⁷¹	7	52.9 ⁻⁷⁹	7	47.3 ⁻⁸⁶	6	41.3 ⁻⁹²	5	35.0 ⁻⁹⁷	4	25.4 ⁻¹⁰⁰	3	15.5															
Jan 5	5	73.6 ⁻⁶	10	73.2 ⁻¹⁹	10	71.9 ⁻³¹	10	69.7 ⁻⁴²	9	66.8 ⁻⁵³	9	63.1 ⁻⁶³	8	58.7 ⁻⁷³	8	53.7 ⁻⁸¹	7	48.1 ⁻⁸⁸	6	42.0 ⁻⁹³	5	35.5 ⁻⁹⁸	4	25.8 ⁻¹⁰¹	3	15.8															
Jan 6	6	74.8 ⁻⁶	10	74.4 ⁻¹⁹	10	73.1 ⁻³¹	10	70.9 ⁻⁴³	9	67.9 ⁻⁵⁴	9	64.2 ⁻⁶⁴	8	59.7 ⁻⁷⁴	8	54.6 ⁻⁸²	7	48.9 ⁻⁸⁹	6	42.7 ⁻⁹⁵	5	36.1 ⁻¹⁰⁰	4	26.2 ⁻¹⁰³	3	16.0															
Jan 7	7	76.0 ⁻⁶	9	75.6 ⁻¹⁹	9	74.2 ⁻³²	8	72.0 ⁻⁴⁴	8	69.0 ⁻⁵⁵	8	65.2 ⁻⁶⁵	7	60.7 ⁻⁷⁵	7	55.5 ⁻⁸³	6	49.7 ⁻⁹⁰	5	43.4 ⁻⁹⁶	5	36.7 ⁻¹⁰¹	4	26.6 ⁻¹⁰⁴	2	16.3															
Jan 8	8	77.0 ⁻⁶	6	76.6 ⁻¹⁹	6	75.2 ⁻³²	6	73.0 ⁻⁴⁴	6	70.0 ⁻⁵⁵	6	66.1 ⁻⁶⁶	5	61.5 ⁻⁷⁶	5	56.2 ⁻⁸⁴	4	50.4 ⁻⁹¹	4	44.0 ⁻⁹⁷	3	37.2 ⁻¹⁰²	3	27.0 ⁻¹⁰⁶	2	16.5															
Jan 9	9	77.8 ⁻⁷	3	77.4 ⁻¹⁹	3	76.0 ⁻³²	3	73.8 ⁻⁴⁴	3	70.7 ⁻⁵⁶	3	66.8 ⁻⁶⁷	3	62.1 ⁻⁷⁶	3	56.8 ⁻⁸⁵	2	50.9 ⁻⁹²	2	44.4 ⁻⁹⁸	2	37.6 ⁻¹⁰³	1	27.3 ⁻¹⁰⁶	1	16.7															
Jan 10	10	78.2 ⁻⁷	0	77.8 ⁻²⁰	0	76.4 ⁻³²	0	74.1 ⁻⁴⁴	0	71.0 ⁻⁵⁶	0	67.1 ⁻⁶⁷	0	62.4 ⁻⁷⁶	0	57.1 ⁻⁸⁵	0	51.1 ⁻⁹²	0	44.7 ⁻⁹⁸	0	37.8 ⁻¹⁰³	0	27.4 ⁻¹⁰⁷	0	16.7															
Jan 11	11	78.2 ⁻⁷	4	77.7 ⁻¹⁹	4	76.4 ⁻³²	4	74.1 ⁻⁴⁴	4	71.0 ⁻⁵⁶	3	67.1 ⁻⁶⁷	3	62.4 ⁻⁷⁶	3	57.0 ⁻⁸⁵	3	51.1 ⁻⁹²	2	44.6 ⁻⁹⁸	2	37.8 ⁻¹⁰³	2	27.4 ⁻¹⁰⁶	1	16.7															
Jan 12	12	77.7 ⁻⁶	7	77.3 ⁻¹⁹	7	75.9 ⁻³²	7	73.7 ⁻⁴⁴	6	70.6 ⁻⁵⁵	6	66.7 ⁻⁶⁶	6	62.0 ⁻⁷⁶	5	56.7 ⁻⁸⁴	5	50.8 ⁻⁹¹	4	44.4 ⁻⁹⁷	4	37.5 ⁻¹⁰²	3	27.2 ⁻¹⁰⁵	2	16.6															
Jan 13	13	76.9 ⁻⁶	9	76.4 ⁻¹⁹	9	75.1 ⁻³¹	9	72.9 ⁻⁴³	8	69.8 ⁻⁵⁵	8	65.9 ⁻⁶⁵	8	61.4 ⁻⁷⁵	7	56.1 ⁻⁸³	6	50.2 ⁻⁹⁰	6	43.9 ⁻⁹⁶	5	37.1 ⁻¹⁰¹	4	27.0 ⁻¹⁰⁴	3	16.5															
Jan 14	14	75.8 ⁻⁶	10	75.3 ⁻¹⁹	10	74.0 ⁻³¹	10	71.8 ⁻⁴³	9	68.8 ⁻⁵⁴	9	65.0 ⁻⁶⁴	8	60.5 ⁻⁷⁴	8	55.3 ⁻⁸²	7	49.5 ⁻⁸⁹	6	43.3 ⁻⁹⁵	5	36.6 ⁻⁹⁹	4	26.6 ⁻¹⁰³	3	16.2															
Jan 15	15	74.6 ⁻⁶	10	74.1 ⁻¹⁸	10	72.8 ⁻³⁰	10	70.7 ⁻⁴²	10	67.7 ⁻⁵³	9	64.0 ⁻⁶³	8	59.5 ⁻⁷²	8	54.4 ⁻⁸⁰	7	48.7 ⁻⁸⁷	6	42.6 ⁻⁹³	5	36.0 ⁻⁹⁸	4	26.1 ⁻¹⁰¹	3	16.0															
Jan 16	16	73.3 ⁻⁶	10	72.9 ⁻¹⁸	9	71.6 ⁻³⁰	9	69.5 ⁻⁴¹	9	66.6 ⁻⁵²	8	62.9 ⁻⁶²	8	58.5 ⁻⁷¹	7	53.5 ⁻⁷⁹	7	47.9 ⁻⁸⁶	6	41.9 ⁻⁹¹	5	35.4 ⁻⁹⁶	4	25.7 ⁻⁹⁹	3	15.7															
Jan 17	17	72.2 ⁻⁶	8	71.8 ⁻¹⁸	8	70.5 ⁻³⁰	8	68.4 ⁻⁴¹	8	65.5 ⁻⁵¹	7	61.9 ⁻⁶¹	7	57.6 ⁻⁷⁰	6	52.7 ⁻⁷⁸	6	47.2 ⁻⁸⁵	5	41.2 ⁻⁹⁰	4	34.9 ⁻⁹⁵	4	25.3 ⁻⁹⁸	2	15.5															
Jan 18	18	71.2 ⁻⁶	7	70.8 ⁻¹⁸	7	69.5 ⁻²⁹	7	67.5 ⁻⁴⁰	7	64.6 ⁻⁵¹	6	61.1 ⁻⁶⁰	6	56.8 ⁻⁶⁹	5	51.9 ⁻⁷⁷	5	46.5 ⁻⁸⁴	4	40.6 ⁻⁸⁹	4	34.4 ⁻⁹⁴	3	25.0 ⁻⁹⁷	2	15.2															
Jan 19	19	70.3 ⁻⁶	6	69.9 ⁻¹⁷	5	68.7 ⁻²⁹	5	66.7 ⁻⁴⁰	5	63.9 ⁻⁵⁰	5	60.3 ⁻⁶⁰	5	56.1 ⁻⁶⁸	4	51.3 ⁻⁷⁶	4	46.0 ⁻⁸³	3	40.1 ⁻⁸⁸	3	34.0 ⁻⁹³	2	24.7 ⁻⁹⁶	2	15.1															
Jan 20	20	69.7 ⁻⁶	4	69.2 ⁻¹⁷	4	68.0 ⁻²⁹	4	66.0 ⁻³⁹	4	63.2 ⁻⁵⁰	4	59.8 ⁻⁵⁹	3	55.6 ⁻⁶⁸	3	50.8 ⁻⁷⁵	3	45.5 ⁻⁸²	2	39.8 ⁻⁸⁷	2	33.6 ⁻⁹²	2	24.4 ⁻⁹⁵	1	14.9															
Jan 21	21	69.2 ⁻⁶	3	68.8 ⁻¹⁷	3	67.6 ⁻²⁸	3	65.6 ⁻³⁹	2	62.8 ⁻⁴⁹	2	59.3 ⁻⁵⁹	2	55.2 ⁻⁶⁷	2	50.5 ⁻⁷⁵	2	45.2 ⁻⁸²	2	39.5 ⁻⁸⁷	1	33.4 ⁻⁹¹	1	24.3 ⁻⁹⁴	1	14.8															
Jan 22	22	68.9 ⁻⁶	1	68.4 ⁻¹⁷	1	67.2 ⁻²⁸	1	65.3 ⁻³⁹	1	62.5 ⁻⁴⁹	1	59.1 ⁻⁵⁹	1	55.0 ⁻⁶⁷	1	50.2 ⁻⁷⁵	1	45.0 ⁻⁸¹	1	39.3 ⁻⁸⁶	1	33.2 ⁻⁹¹	1	24.1 ⁻⁹⁴	0	14.7															
Jan 23	23	68.7 ⁻⁶	0	68.3 ⁻¹⁷	0	67.1 ⁻²⁸	0	65.1 ⁻³⁹	0	62.4 ⁻⁴⁹	0	58.9 ⁻⁵⁹	0	54.8 ⁻⁶⁷	0	50.1 ⁻⁷⁵	0	44.9 ⁻⁸¹	0	39.2 ⁻⁸⁶	0	33.2 ⁻⁹¹	0	24.1 ⁻⁹⁴	0	14.7															
Jan 24	24	68.7 ⁻⁶	1	68.2 ⁻¹⁷	1	67.0 ⁻²⁸	1	65.1 ⁻³⁹	1	62.3 ⁻⁴⁹	1	58.9 ⁻⁵⁹	1	54.8 ⁻⁶⁷	1	50.1 ⁻⁷⁵	0	44.9 ⁻⁸¹	0	39.2 ⁻⁸⁶	0	33.2 ⁻⁹¹	0	24.1 ⁻⁹⁴	0	14.7															
Jan 25	25	68.7 ⁻⁶	2	68.3 ⁻¹⁷	2	67.1 ⁻²⁸	2	65.1 ⁻³⁹	1	62.4 ⁻⁴⁹	1	59.0 ⁻⁵⁹	1	54.9 ⁻⁶⁷	1	50.2 ⁻⁷⁵	1	44.9 ⁻⁸¹	1	39.2 ⁻⁸⁷	1	33.2 ⁻⁹¹	1	24.1 ⁻⁹⁴	0	14.7															
Jan 26	26	68.9 ⁻⁶	2	68.5 ⁻¹⁷	2	67.3 ⁻²⁸	2	65.3 ⁻³⁹	2	62.6 ⁻⁴⁹	2	59.1 ⁻⁵⁹	2	55.0 ⁻⁶⁸	2	50.3 ⁻⁷⁵	2	45.0 ⁻⁸²	1	39.3 ⁻⁸⁷	1	33.3 ⁻⁹¹	1	24.2 ⁻⁹⁴	1	14.8															
Jan 27	27	69.2 ⁻⁶	3	68.8 ⁻¹⁷	3	67.6 ⁻²⁹	3	65.6 ⁻³⁹	3	62.8 ⁻⁵⁰	3	59.4 ⁻⁵⁹	3	55.2 ⁻⁶⁸	3	50.5 ⁻⁷⁵	2	45.2 ⁻⁸²	2	39.5 ⁻⁸⁷	2	33.4 ⁻⁹²	1	24.3 ⁻⁹⁵	1	14.8															
Jan 28	28	69.6 ⁻⁶	4	69.2 ⁻¹⁷	4	68.0 ⁻²⁹	4	66.0 ⁻⁴⁰	4	63.2 ⁻⁵⁰	4	59.7 ⁻⁶⁰	3	55.6 ⁻⁶⁸	3	50.8 ⁻⁷⁶	3	45.5 ⁻⁸³	3	39.7 ⁻⁸⁸	2	33.6 ⁻⁹²	2	24.4 ⁻⁹⁵	1	14.9															
Jan 29	29	70.1 ⁻⁶	5	69.7 ⁻¹⁸	5	68.5 ⁻²⁹	5	66.4 ⁻⁴⁰	5	63.7 ⁻⁵⁰	5	60.1 ⁻⁶⁰	4	56.0 ⁻⁶⁹	4	51.2 ⁻⁷⁷	4	45.8 ⁻⁸³	3	40.0 ⁻⁸⁹	3	33.9 ⁻⁹³	2	24.6 ⁻⁹⁶	1	15.0															
Jan 30	30	70.7 ⁻⁶	6	70.3 ⁻¹⁸	6	69.1 ⁻²⁹	6	67.0 ⁻⁴⁰	6	64.2 ⁻⁵¹	5	60.7 ⁻⁶¹	5	56.4 ⁻⁷⁰	5	51.6 ⁻⁷⁷	4	46.2 ⁻⁸⁴	4	40.4 ⁻⁸⁹	3	34.2 ⁻⁹⁴	3	24.8 ⁻⁹⁷	2	15.1															
Jan 31	31	71.5 ⁻⁶	7	71.0 ⁻¹⁸	7	69.8 ⁻³⁰	7	67.7 ⁻⁴¹	7	64.9 ⁻⁵¹	6	61.3 ⁻⁶¹	6	57.0 ⁻⁷⁰	5	52.1 ⁻⁷⁸	5	46.7 ⁻⁸⁵	4	40.8 ⁻⁹⁰	4	34.5 ⁻⁹⁵	3	25.1 ⁻⁹⁸	2	15.3															
Feb 1	1	72.3 ⁻⁶	8	71.9 ⁻¹⁸	8	70.6 ⁻³⁰	8	68.5 ⁻⁴¹	7	65.7 ⁻⁵²	7	62.0 ⁻⁶²	7	57.7 ⁻⁷¹	6	52.8 ⁻⁷⁹	6	47.3 ⁻⁸⁶	5	41.3 ⁻⁹²	4	34.9 ⁻⁹⁶	3	25.4 ⁻⁹⁹	2	15.5															
Feb 2	2	73.3 ⁻⁶	9	72.8 ⁻¹⁸	8	71.6 ⁻³⁰	8	69.5 ⁻⁴²	8	66.5 ⁻⁵³	8	62.9 ⁻⁶³	7	58.5 ⁻⁷²	7	53.5 ⁻⁸⁰	6	47.9 ⁻⁸⁷	5	41.8 ⁻⁹³	5	35.4 ⁻⁹⁸	4	25.7 ⁻¹⁰¹	2	15.7															
Feb 3	3	74.3 ⁻⁶	9	73.9 ⁻¹⁹	9	72.6 ⁻³¹	8	70.4 ⁻⁴³	8	67.5 ⁻⁵⁴	8	63.7 ⁻⁶⁴	7	59.3 ⁻⁷³	7	54.2 ⁻⁸¹	6	48.6 ⁻⁸⁸	5	42.4 ⁻⁹⁴	5	35.9 ⁻⁹⁹	4	26.1 ⁻¹⁰²	2	15.9															
Feb 4	4	75.4 ⁻⁶	8	74.9 ⁻¹⁹	8	73.6 ⁻³¹	8	71.4 ⁻⁴³	8	68.4 ⁻⁵⁴	7	64.6 ⁻⁶⁵	7	60.1 ⁻⁷⁴	6	55.0 ⁻⁸²	6	49.2 ⁻⁹⁰	5	43.0 ⁻⁹⁵	4	36.4 ⁻¹⁰⁰	3	26.4 ⁻¹⁰³	2	16.1															
Feb 5	5	76.3 ⁻⁶	7	75.9 ⁻¹⁹	7	74.5 ⁻³²	6	72.3 ⁻⁴⁴	6	69.3 ⁻⁵⁵	6	65.5 ⁻⁶⁵	6	60.9 ⁻⁷⁵	5	55.7 ⁻⁸³	5	49.9 ⁻⁹¹	4	43.6 ⁻⁹⁶	4	36.9 ⁻¹⁰²	3	26.8 ⁻¹⁰⁵	2	16.3															
Feb 6	6	77.1 ⁻⁶	4	76.7 ⁻¹⁹	4	75.3 ⁻³²	4	73.1 ⁻⁴⁴	4	70.0 ⁻⁵⁵	4	66.2 ⁻⁶⁶	4	61.6 ⁻⁷⁶	3	56.3 ⁻⁸⁴	3	50.4 ⁻⁹¹	3	44.0 ⁻⁹⁷	2	37.2 ⁻¹⁰²	2	27.0 ⁻¹⁰⁶	1	16.5															
Feb 7	7	77.7 ⁻⁷	1	77.2 ⁻¹⁹	1	75.8 ⁻³²	1	73.6 ⁻⁴⁴	1	70.5 ⁻⁵⁶	1	66.6 ⁻⁶⁶	1	62.0 ⁻⁷⁶	1	56.7 ⁻⁸⁵	1	50.8 ⁻⁹²	1	44.3 ⁻⁹⁸	1	37.5 ⁻¹⁰³	1	27.2 ⁻¹⁰⁶	0	16.6															
Feb 8	8	77.8 ⁻⁷	2	77.4 ⁻¹⁹	2	76.0 ⁻³²	2	73.8 ⁻⁴⁴	2	70.7 ⁻⁵⁶	2	66.8 ⁻⁶⁶	2	62.1 ⁻⁷⁶	1	56.8 ⁻⁸⁵	1	50.9 ⁻⁹²	1	44.4 ⁻⁹⁸	1	37.6 ⁻¹⁰³	1	27.3 ⁻¹⁰⁶	1	16.7															
Feb 9	9	77.6 ⁻⁶	5	77.1 ⁻¹⁹	5	75.8 ⁻³²	5	73.5 ⁻⁴⁴	5	70.4 ⁻⁵⁵	5	66.6 ⁻⁶⁶	4	61.9 ⁻⁷⁶	4	56.6 ⁻⁸⁴	4	50.7 ⁻⁹¹	3	44.3 ⁻⁹⁷	3	37.5 ⁻¹⁰²	2	27.2 ⁻¹⁰⁵	1	16.6															
Feb 10	10	77.0 ⁻⁶	8	76.5 ⁻¹⁹	8	75.2 ⁻³²	7	72.9																																	

2005

Moon Parallax and Semi-diameter

Lower Limb																										
Altitude degrees																										
	0		7		14		21		28		35		42		49		56		63		70		80		90	
	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"
Feb 16	70.5	⁻⁶ ₋₆	70.0	⁻¹⁸ ₋₆	68.8	⁻²⁹ ₋₆	66.8	⁻⁴⁰ ₋₆	64.0	⁻⁵⁰ ₋₅	60.4	⁻⁶⁰ ₋₅	56.2	⁻⁶⁹ ₋₅	51.4	⁻⁷⁶ ₋₄	46.0	⁻⁸³ ₋₄	40.2	⁻⁸⁸ ₋₃	34.0	⁻⁹³ ₋₃	24.7	⁻⁹⁶ ₋₂	15.1	
Feb 17	69.7	⁻⁶ ₋₄	69.3	⁻¹⁷ ₋₄	68.1	⁻²⁹ ₋₄	66.1	⁻³⁹ ₋₄	63.3	⁻⁵⁰ ₋₄	59.8	⁻⁵⁹ ₋₄	55.6	⁻⁶⁸ ₋₃	50.9	⁻⁷⁶ ₋₃	45.6	⁻⁸² ₋₃	39.8	⁻⁸⁷ ₋₂	33.7	⁻⁹² ₋₂	24.4	⁻⁹⁵ ₋₁	14.9	
Feb 18	69.2	⁻⁶ ₋₃	68.8	⁻¹⁷ ₋₃	67.6	⁻²⁸ ₋₃	65.6	⁻³⁹ ₋₂	62.8	⁻⁴⁹ ₋₂	59.4	⁻⁵⁹ ₋₂	55.2	⁻⁶⁸ ₋₂	50.5	⁻⁷⁵ ₋₂	45.2	⁻⁸² ₋₂	39.5	⁻⁸⁷ ₋₁	33.4	⁻⁹¹ ₋₁	24.3	⁻⁹⁴ ₋₁	14.8	
Feb 19	68.9	⁻⁶ ₋₁	68.5	⁻¹⁷ ₋₁	67.3	⁻²⁸ ₋₁	65.3	⁻³⁹ ₋₁	62.5	⁻⁴⁹ ₋₁	59.1	⁻⁵⁹ ₋₁	55.0	⁻⁶⁷ ₋₁	50.3	⁻⁷⁵ ₋₁	45.0	⁻⁸¹ ₋₁	39.3	⁻⁸⁷ ₋₁	33.3	⁻⁹¹ ₀	24.1	⁻⁹⁴ ₀	14.7	
Feb 20	68.8	⁻⁶ ₀	68.4	⁻¹⁷ ₀	67.2	⁻²⁸ ₀	65.2	⁻³⁹ ₀	62.4	⁻⁴⁹ ₀	59.0	⁻⁵⁹ ₀	54.9	⁻⁶⁷ ₀	50.2	⁻⁷⁵ ₀	44.9	⁻⁸¹ ₀	39.3	⁻⁸⁶ ₀	33.2	⁻⁹¹ ₀	24.1	⁻⁹⁴ ₀	14.7	
Feb 21	68.8	⁻⁶ ₂	68.4	⁻¹⁷ ₂	67.2	⁻²⁸ ₂	65.2	⁻³⁹ ₂	62.5	⁻⁴⁹ ₁	59.0	⁻⁵⁹ ₁	54.9	⁻⁶⁷ ₁	50.2	⁻⁷⁵ ₁	45.0	⁻⁸¹ ₁	39.3	⁻⁸⁷ ₁	33.2	⁻⁹¹ ₁	24.1	⁻⁹⁴ ₀	14.7	
Feb 22	69.0	⁻⁶ ₃	68.6	⁻¹⁷ ₃	67.4	⁻²⁹ ₃	65.4	⁻³⁹ ₂	62.7	⁻⁵⁰ ₂	59.2	⁻⁵⁹ ₂	55.1	⁻⁶⁸ ₂	50.3	⁻⁷⁵ ₂	45.1	⁻⁸² ₂	39.4	⁻⁸⁷ ₁	33.3	⁻⁹² ₁	24.2	⁻⁹⁴ ₁	14.8	
Feb 23	69.3	⁻⁶ ₃	68.9	⁻¹⁷ ₃	67.7	⁻²⁹ ₃	65.7	⁻⁴⁰ ₃	62.9	⁻⁵⁰ ₃	59.5	⁻⁵⁹ ₃	55.3	⁻⁶⁸ ₃	50.6	⁻⁷⁶ ₂	45.3	⁻⁸² ₂	39.6	⁻⁸⁷ ₂	33.5	⁻⁹² ₁	24.3	⁻⁹⁵ ₁	14.8	
Feb 24	69.7	⁻⁶ ₄	69.3	⁻¹⁷ ₄	68.1	⁻²⁹ ₄	66.1	⁻⁴⁰ ₄	63.3	⁻⁵⁰ ₄	59.8	⁻⁶⁰ ₃	55.7	⁻⁶⁸ ₃	50.9	⁻⁷⁶ ₃	45.6	⁻⁸³ ₂	39.8	⁻⁸⁸ ₂	33.7	⁻⁹³ ₂	24.4	⁻⁹⁵ ₁	14.9	
Feb 25	70.2	⁻⁶ ₅	69.8	⁻¹⁸ ₄	68.6	⁻²⁹ ₄	66.5	⁻⁴⁰ ₄	63.8	⁻⁵⁰ ₄	60.2	⁻⁶⁰ ₄	56.0	⁻⁶⁹ ₃	51.2	⁻⁷⁷ ₃	45.9	⁻⁸³ ₃	40.1	⁻⁸⁹ ₂	33.9	⁻⁹³ ₂	24.6	⁻⁹⁶ ₁	15.0	
Feb 26	70.8	⁻⁶ ₅	70.3	⁻¹⁸ ₅	69.1	⁻²⁹ ₅	67.1	⁻⁴⁰ ₅	64.2	⁻⁵¹ ₄	60.7	⁻⁶¹ ₄	56.5	⁻⁶⁹ ₄	51.6	⁻⁷⁷ ₃	46.2	⁻⁸⁴ ₃	40.4	⁻⁸⁹ ₃	34.2	⁻⁹⁴ ₂	24.8	⁻⁹⁷ ₁	15.2	
Feb 27	71.4	⁻⁶ ₅	70.9	⁻¹⁸ ₅	69.7	⁻³⁰ ₅	67.6	⁻⁴¹ ₅	64.8	⁻⁵¹ ₅	61.2	⁻⁶¹ ₄	57.0	⁻⁷⁰ ₄	52.1	⁻⁷⁸ ₄	46.6	⁻⁸⁵ ₃	40.7	⁻⁹⁰ ₃	34.5	⁻⁹⁵ ₂	25.0	⁻⁹⁸ ₂	15.3	
Feb 28	72.0	⁻⁶ ₆	71.6	⁻¹⁸ ₆	70.3	⁻³⁰ ₆	68.2	⁻⁴¹ ₅	65.4	⁻⁵² ₅	61.8	⁻⁶² ₅	57.5	⁻⁷¹ ₄	52.5	⁻⁷⁹ ₄	47.1	⁻⁸⁵ ₄	41.1	⁻⁹¹ ₃	34.8	⁻⁹⁶ ₂	25.2	⁻⁹⁹ ₂	15.4	
Mar 1	72.7	⁻⁶ ₆	72.3	⁻¹⁸ ₆	71.0	⁻³⁰ ₆	68.9	⁻⁴² ₆	66.0	⁻⁵² ₅	62.4	⁻⁶² ₅	58.0	⁻⁷¹ ₅	53.0	⁻⁷⁹ ₄	47.5	⁻⁸⁶ ₄	41.5	⁻⁹² ₃	35.1	⁻⁹⁷ ₃	25.5	⁻¹⁰⁰ ₂	15.6	
Mar 2	73.4	⁻⁶ ₆	73.0	⁻¹⁸ ₆	71.7	⁻³⁰ ₆	69.6	⁻⁴² ₆	66.7	⁻⁵³ ₆	63.0	⁻⁶³ ₅	58.6	⁻⁷² ₅	53.6	⁻⁸⁰ ₄	48.0	⁻⁸⁷ ₄	41.9	⁻⁹³ ₃	35.4	⁻⁹⁸ ₃	25.7	⁻¹⁰¹ ₂	15.7	
Mar 3	74.2	⁻⁶ ₆	73.7	⁻¹⁹ ₆	72.4	⁻³¹ ₆	70.3	⁻⁴² ₆	67.3	⁻⁵³ ₆	63.6	⁻⁶⁴ ₅	59.2	⁻⁷³ ₅	54.1	⁻⁸¹ ₄	48.5	⁻⁸⁸ ₄	42.3	⁻⁹⁴ ₃	35.8	⁻⁹⁹ ₃	26.0	⁻¹⁰² ₂	15.9	
Mar 4	74.9	⁻⁶ ₆	74.5	⁻¹⁹ ₆	73.2	⁻³¹ ₆	71.0	⁻⁴³ ₅	68.0	⁻⁵⁴ ₅	64.3	⁻⁶⁴ ₅	59.8	⁻⁷⁴ ₄	54.7	⁻⁸² ₄	49.0	⁻⁸⁹ ₄	42.8	⁻⁹⁵ ₃	36.2	⁻¹⁰⁰ ₂	26.3	⁻¹⁰³ ₂	16.0	
Mar 5	75.6	⁻⁶ ₅	75.2	⁻¹⁹ ₅	73.8	⁻³¹ ₅	71.7	⁻⁴³ ₅	68.7	⁻⁵⁴ ₄	64.9	⁻⁶⁵ ₄	60.3	⁻⁷⁴ ₄	55.2	⁻⁸³ ₃	49.4	⁻⁹⁰ ₃	43.2	⁻⁹⁵ ₃	36.5	⁻¹⁰⁰ ₂	26.5	⁻¹⁰⁴ ₁	16.2	
Mar 6	76.2	⁻⁶ ₄	75.8	⁻¹⁹ ₃	74.4	⁻³² ₃	72.2	⁻⁴³ ₃	69.2	⁻⁵⁵ ₃	65.4	⁻⁶⁵ ₃	60.8	⁻⁷⁵ ₃	55.6	⁻⁸³ ₂	49.8	⁻⁹⁰ ₂	43.5	⁻⁹⁶ ₂	36.8	⁻¹⁰¹ ₁	26.7	⁻¹⁰⁴ ₁	16.3	
Mar 7	76.6	⁻⁶ ₂	76.2	⁻¹⁹ ₂	74.8	⁻³² ₁	72.6	⁻⁴⁴ ₁	69.6	⁻⁵⁵ ₁	65.7	⁻⁶⁵ ₁	61.2	⁻⁷⁵ ₁	55.9	⁻⁸³ ₁	50.1	⁻⁹¹ ₁	43.8	⁻⁹⁶ ₁	37.0	⁻¹⁰² ₁	26.9	⁻¹⁰⁵ ₀	16.4	
Mar 8	76.8	⁻⁶ ₋₁	76.4	⁻¹⁹ ₋₁	75.0	⁻³² ₋₁	72.8	⁻⁴⁴ ₋₁	69.8	⁻⁵⁵ ₋₁	65.9	⁻⁶⁶ ₋₁	61.3	⁻⁷⁵ ₋₁	56.1	⁻⁸³ ₋₁	50.2	⁻⁹¹ ₋₁	43.9	⁻⁹⁶ ₀	37.1	⁻¹⁰² ₀	26.9	⁻¹⁰⁵ ₀	16.4	
Mar 9	76.7	⁻⁶ ₋₃	76.3	⁻¹⁹ ₋₃	74.9	⁻³² ₋₃	72.7	⁻⁴³ ₋₃	69.7	⁻⁵⁵ ₋₃	65.8	⁻⁶⁵ ₋₃	61.2	⁻⁷⁵ ₋₃	56.0	⁻⁸³ ₋₂	50.1	⁻⁹⁰ ₋₂	43.8	⁻⁹⁶ ₋₂	37.0	⁻¹⁰¹ ₋₁	26.9	⁻¹⁰⁴ ₋₁	16.4	
Mar 10	76.3	⁻⁶ ₋₆	75.8	⁻¹⁹ ₋₆	74.5	⁻³¹ ₋₆	72.3	⁻⁴³ ₋₅	69.3	⁻⁵⁴ ₋₅	65.5	⁻⁶⁵ ₋₅	60.9	⁻⁷⁴ ₋₄	55.7	⁻⁸³ ₋₄	49.9	⁻⁹⁰ ₋₄	43.6	⁻⁹⁵ ₋₃	36.8	⁻¹⁰⁰ ₋₂	26.7	⁻¹⁰⁴ ₋₂	16.3	
Mar 11	75.6	⁻⁶ ₋₈	75.2	⁻¹⁹ ₋₈	73.8	⁻³¹ ₋₇	71.7	⁻⁴³ ₋₇	68.6	⁻⁵⁴ ₋₇	64.9	⁻⁶⁴ ₋₆	60.3	⁻⁷³ ₋₆	55.2	⁻⁸² ₋₅	49.4	⁻⁸⁹ ₋₅	43.2	⁻⁹⁴ ₋₄	36.5	⁻⁹⁹ ₋₃	26.5	⁻¹⁰³ ₋₂	16.2	
Mar 12	74.7	⁻⁶ ₋₉	74.2	⁻¹⁹ ₋₉	72.9	⁻³¹ ₋₈	70.8	⁻⁴² ₋₈	67.8	⁻⁵³ ₋₈	64.1	⁻⁶³ ₋₇	59.6	⁻⁷³ ₋₇	54.5	⁻⁸¹ ₋₆	48.8	⁻⁸⁸ ₋₅	42.6	⁻⁹³ ₋₅	36.1	⁻⁹⁸ ₋₄	26.2	⁻¹⁰¹ ₋₂	16.0	
Mar 13	73.6	⁻⁶ ₋₉	73.2	⁻¹⁸ ₋₉	71.9	⁻³⁰ ₋₉	69.8	⁻⁴² ₋₈	66.9	⁻⁵² ₋₈	63.2	⁻⁶² ₋₇	58.8	⁻⁷¹ ₋₇	53.7	⁻⁷⁹ ₋₆	48.1	⁻⁸⁶ ₋₆	42.0	⁻⁹² ₋₅	35.6	⁻⁹⁷ ₋₄	25.8	⁻¹⁰⁰ ₋₃	15.8	
Mar 14	72.5	⁻⁶ ₋₉	72.1	⁻¹⁸ ₋₈	70.9	⁻³⁰ ₋₈	68.8	⁻⁴¹ ₋₈	65.9	⁻⁵² ₋₈	62.2	⁻⁶¹ ₋₇	57.9	⁻⁷⁰ ₋₇	52.9	⁻⁷⁸ ₋₆	47.4	⁻⁸⁵ ₋₅	41.4	⁻⁹¹ ₋₅	35.0	⁻⁹⁵ ₋₄	25.4	⁻⁹⁸ ₋₂	15.5	
Mar 15	71.5	⁻⁶ ₋₈	71.1	⁻¹⁸ ₋₇	69.8	⁻²⁹ ₋₇	67.8	⁻⁴⁰ ₋₇	64.9	⁻⁵¹ ₋₇	61.3	⁻⁶¹ ₋₆	57.1	⁻⁶⁹ ₋₆	52.2	⁻⁷⁷ ₋₅	46.7	⁻⁸⁴ ₋₅	40.8	⁻⁸⁹ ₋₄	34.5	⁻⁹⁴ ₋₃	25.1	⁻⁹⁷ ₋₂	15.3	
Mar 16	70.6	⁻⁶ ₋₆	70.2	⁻¹⁸ ₋₆	69.0	⁻²⁹ ₋₆	66.9	⁻⁴⁰ ₋₆	64.1	⁻⁵⁰ ₋₅	60.6	⁻⁶⁰ ₋₅	56.3	⁻⁶⁹ ₋₅	51.5	⁻⁷⁶ ₋₄	46.1	⁻⁸³ ₋₄	40.3	⁻⁸⁸ ₋₃	34.1	⁻⁹³ ₋₃	24.8	⁻⁹⁶ ₋₂	15.1	
Mar 17	69.9	⁻⁶ ₋₄	69.5	⁻¹⁷ ₋₄	68.2	⁻²⁹ ₋₄	66.2	⁻⁴⁰ ₋₄	63.4	⁻⁵⁰ ₋₄	59.9	⁻⁵⁹ ₋₄	55.8	⁻⁶⁸ ₋₃	51.0	⁻⁷⁶ ₋₃	45.7	⁻⁸² ₋₃	39.9	⁻⁸⁷ ₋₂	33.7	⁻⁹² ₋₂	24.5	⁻⁹⁵ ₋₁	15.0	
Mar 18	69.3	⁻⁶ ₋₃	68.9	⁻¹⁷ ₋₃	67.7	⁻²⁹ ₋₃	65.7	⁻³⁹ ₋₂	62.9	⁻⁵⁰ ₋₂	59.5	⁻⁵⁹ ₋₂	55.3	⁻⁶⁸ ₋₂	50.6	⁻⁷⁵ ₋₂	45.3	⁻⁸² ₋₂	39.6	⁻⁸⁷ ₋₁	33.5	⁻⁹² ₋₁	24.3	⁻⁹⁴ ₋₁	14.8	
Mar 19	69.0	⁻⁶ ₋₁	68.6	⁻¹⁷ ₋₁	67.4	⁻²⁸ ₋₁	65.4	⁻³⁹ ₋₁	62.7	⁻⁴⁹ ₋₁	59.2	⁻⁵⁹ ₋₁	55.1	⁻⁶⁷ ₋₁	50.4	⁻⁷⁵ ₋₁	45.1	⁻⁸¹ ₀	39.4	⁻⁸⁷ ₀	33.3	⁻⁹¹ ₀	24.2	⁻⁹⁴ ₀	14.8	
Mar 20	68.9	⁻⁶ ₁	68.5	⁻¹⁷ ₁	67.3	⁻²⁸ ₁	65.3	⁻³⁹ ₁	62.6	⁻⁴⁹ ₁	59.1	⁻⁵⁹ ₁	55.0	⁻⁶⁷ ₁	50.3	⁻⁷⁵ ₁	45.0	⁻⁸¹ ₁	39.3	⁻⁸⁷ ₀	33.3	⁻⁹¹ ₀	24.2	⁻⁹⁴ ₀	14.8	
Mar 21	69.0	⁻⁶ ₂	68.6	⁻¹⁷ ₂	67.4	⁻²⁹ ₂	65.4	⁻³⁹ ₂	62.7	⁻⁵⁰ ₂	59.2	⁻⁵⁹ ₂	55.1	⁻⁶⁸ ₂	50.4	⁻⁷⁵ ₂	45.1	⁻⁸² ₁	39.4	⁻⁸⁷ ₁	33.3	⁻⁹² ₁	24.2	⁻⁹⁴ ₁	14.8	
Mar 22	69.3	⁻⁶ ₄	68.9	⁻¹⁷ ₄	67.7	⁻²⁹ ₄	65.7	⁻⁴⁰ ₃	62.9	⁻⁵⁰ ₃	59.5	⁻⁵⁹ ₃	55.3	⁻⁶⁸ ₃	50.6	⁻⁷⁶ ₃	45.3	⁻⁸² ₂	39.6	⁻⁸⁷ ₂	33.5	⁻⁹² ₂	24.3	⁻⁹⁵ ₁	14.8	
Mar 23	69.8	⁻⁶ ₅	69.4	⁻¹⁷ ₅	68.1	⁻²⁹ ₄	66.1	⁻⁴⁰ ₄	63.3	⁻⁵⁰ ₄	59.8	⁻⁶⁰ ₄	55.7	⁻⁶⁸ ₄												

Upper Limb																										
Altitude degrees																										
	0		7		14		21		28		35		42		49		56		63		70		80		90	
	'	''	'	''	'	''	'	''	'	''	'	''	'	''	'	''	'	''	'	''	'	''	'	''	'	''
Feb 16	40.3	⁻⁶ ₋₆	39.9	⁻¹⁸ ₋₆	38.6	⁻²⁹ ₋₆	36.6	⁻⁴⁰ ₋₆	33.8	⁻⁵⁰ ₋₅	30.3	⁻⁶⁰ ₋₅	26.1	⁻⁶⁹ ₋₅	21.2	⁻⁷⁶ ₋₄	15.9	⁻⁸³ ₋₄	10.0	⁻⁸⁸ ₋₃	3.8	⁻⁹³ ₋₃	-5.5	⁻⁹⁶ ₋₂	-15.1	
Feb 17	39.9	⁻⁶ ₋₄	39.5	⁻¹⁷ ₋₄	38.2	⁻²⁹ ₋₄	36.2	⁻³⁹ ₋₄	33.4	⁻⁵⁰ ₋₄	30.0	⁻⁵⁹ ₋₄	25.8	⁻⁶⁸ ₋₃	21.0	⁻⁷⁶ ₋₃	15.7	⁻⁸² ₋₃	9.9	⁻⁸⁷ ₋₂	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-14.9	
Feb 18	39.6	⁻⁶ ₋₃	39.2	⁻¹⁷ ₋₃	37.9	⁻²⁸ ₋₃	35.9	⁻³⁹ ₋₂	33.2	⁻⁴⁹ ₋₂	29.7	⁻⁵⁹ ₋₂	25.6	⁻⁶⁸ ₋₂	20.9	⁻⁷⁵ ₋₂	15.6	⁻⁸² ₋₂	9.9	⁻⁸⁷ ₋₁	3.8	⁻⁹¹ ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.8	
Feb 19	39.4	⁻⁶ ₋₁	39.0	⁻¹⁷ ₋₁	37.8	⁻²⁸ ₋₁	35.8	⁻³⁹ ₋₁	33.0	⁻⁴⁹ ₋₁	29.6	⁻⁵⁹ ₋₁	25.5	⁻⁶⁷ ₋₁	20.8	⁻⁷⁵ ₋₁	15.5	⁻⁸¹ ₋₁	9.8	⁻⁸⁷ ₋₁	3.8	⁻⁹¹ ₀	-5.4	⁻⁹⁴ ₀	-14.7	
Feb 20	39.3	⁻⁶ ₀	38.9	⁻¹⁷ ₀	37.7	⁻²⁸ ₀	35.7	⁻³⁹ ₀	33.0	⁻⁴⁹ ₀	29.5	⁻⁵⁹ ₀	25.4	⁻⁶⁷ ₀	20.7	⁻⁷⁵ ₀	15.5	⁻⁸¹ ₀	9.8	⁻⁸⁶ ₀	3.8	⁻⁹¹ ₀	-5.3	⁻⁹⁴ ₀	-14.7	
Feb 21	39.3	⁻⁶ ₂	38.9	⁻¹⁷ ₂	37.7	⁻²⁸ ₂	35.7	⁻³⁹ ₂	33.0	⁻⁴⁹ ₁	29.6	⁻⁵⁹ ₁	25.4	⁻⁶⁷ ₁	20.7	⁻⁷⁵ ₁	15.5	⁻⁸¹ ₁	9.8	⁻⁸⁷ ₁	3.8	⁻⁹¹ ₁	-5.3	⁻⁹⁴ ₀	-14.7	
Feb 22	39.4	⁻⁶ ₃	39.0	⁻¹⁷ ₃	37.8	⁻²⁹ ₃	35.8	⁻³⁹ ₂	33.1	⁻⁵⁰ ₂	29.6	⁻⁵⁹ ₂	25.5	⁻⁶⁸ ₂	20.8	⁻⁷⁵ ₂	15.5	⁻⁸² ₂	9.8	⁻⁸⁷ ₁	3.8	⁻⁹² ₁	-5.4	⁻⁹⁴ ₁	-14.8	
Feb 23	39.6	⁻⁶ ₃	39.2	⁻¹⁷ ₃	38.0	⁻²⁹ ₃	36.0	⁻⁴⁰ ₂	33.3	⁻⁵⁰ ₃	29.8	⁻⁵⁹ ₃	25.6	⁻⁶⁸ ₃	20.9	⁻⁷⁶ ₂	15.6	⁻⁸² ₂	9.9	⁻⁸⁷ ₂	3.8	⁻⁹² ₁	-5.4	⁻⁹⁵ ₁	-14.8	
Feb 24	39.9	⁻⁶ ₄	39.5	⁻¹⁷ ₄	38.2	⁻²⁹ ₄	36.2	⁻⁴⁰ ₄	33.4	⁻⁵⁰ ₄	30.0	⁻⁶⁰ ₃	25.8	⁻⁶⁸ ₃	21.0	⁻⁷⁶ ₃	15.7	⁻⁸³ ₂	9.9	⁻⁸⁸ ₂	3.8	⁻⁹³ ₂	-5.4	⁻⁹⁵ ₁	-14.9	
Feb 25	40.1	⁻⁶ ₅	39.7	⁻¹⁸ ₄	38.5	⁻²⁹ ₄	36.5	⁻⁴⁰ ₄	33.7	⁻⁵⁰ ₄	30.2	⁻⁶⁰ ₄	26.0	⁻⁶⁹ ₃	21.2	⁻⁷⁷ ₃	15.8	⁻⁸³ ₃	10.0	⁻⁸⁹ ₂	3.8	⁻⁹³ ₂	-5.5	⁻⁹⁶ ₁	-15.0	
Feb 26	40.5	⁻⁶ ₅	40.0	⁻¹⁸ ₅	38.8	⁻²⁹ ₅	36.8	⁻⁴⁰ ₅	33.9	⁻⁵¹ ₄	30.4	⁻⁶¹ ₄	26.2	⁻⁶⁹ ₄	21.3	⁻⁷⁷ ₃	15.9	⁻⁸⁴ ₃	10.1	⁻⁸⁹ ₃	3.9	⁻⁹⁴ ₂	-5.5	⁻⁹⁷ ₁	-15.2	
Feb 27	40.8	⁻⁶ ₅	40.4	⁻¹⁸ ₅	39.1	⁻³⁰ ₅	37.1	⁻⁴¹ ₅	34.2	⁻⁵¹ ₅	30.7	⁻⁶¹ ₄	26.4	⁻⁷⁰ ₄	21.5	⁻⁷⁸ ₄	16.1	⁻⁸⁵ ₃	10.2	⁻⁹⁰ ₃	3.9	⁻⁹⁵ ₂	-5.5	⁻⁹⁸ ₂	-15.3	
Feb 28	41.2	⁻⁶ ₆	40.7	⁻¹⁸ ₆	39.5	⁻³⁰ ₆	37.4	⁻⁴¹ ₅	34.5	⁻⁵² ₅	30.9	⁻⁶² ₅	26.6	⁻⁷¹ ₄	21.7	⁻⁷⁹ ₄	16.2	⁻⁸⁵ ₄	10.3	⁻⁹¹ ₃	3.9	⁻⁹⁶ ₂	-5.6	⁻⁹⁹ ₂	-15.4	
Mar 1	41.6	⁻⁶ ₆	41.1	⁻¹⁸ ₆	39.9	⁻³⁰ ₆	37.8	⁻⁴² ₆	34.9	⁻⁵² ₅	31.2	⁻⁶² ₅	26.9	⁻⁷¹ ₅	21.9	⁻⁷⁹ ₄	16.4	⁻⁸⁶ ₄	10.4	⁻⁹² ₃	4.0	⁻⁹⁷ ₃	-5.6	⁻¹⁰⁰ ₂	-15.6	
Mar 2	42.0	⁻⁶ ₆	41.5	⁻¹⁸ ₆	40.3	⁻³⁰ ₆	38.1	⁻⁴² ₆	35.2	⁻⁵³ ₆	31.5	⁻⁶³ ₅	27.1	⁻⁷² ₅	22.1	⁻⁸⁰ ₄	16.5	⁻⁸⁷ ₄	10.5	⁻⁹³ ₃	4.0	⁻⁹⁸ ₃	-5.7	⁻¹⁰¹ ₂	-15.7	
Mar 3	42.4	⁻⁶ ₆	42.0	⁻¹⁹ ₆	40.7	⁻³¹ ₆	38.5	⁻⁴² ₆	35.6	⁻⁵³ ₆	31.9	⁻⁶⁴ ₅	27.4	⁻⁷³ ₅	22.4	⁻⁸¹ ₄	16.7	⁻⁸⁸ ₄	10.6	⁻⁹⁴ ₃	4.1	⁻⁹⁹ ₃	-5.8	⁻¹⁰² ₂	-15.9	
Mar 4	42.8	⁻⁶ ₆	42.4	⁻¹⁹ ₆	41.1	⁻³¹ ₆	38.9	⁻⁴³ ₅	35.9	⁻⁵⁴ ₅	32.2	⁻⁶⁴ ₅	27.7	⁻⁷⁴ ₄	22.6	⁻⁸² ₄	16.9	⁻⁸⁹ ₄	10.7	⁻⁹⁵ ₃	4.1	⁻¹⁰⁰ ₂	-5.8	⁻¹⁰³ ₂	-16.0	
Mar 5	43.2	⁻⁶ ₅	42.8	⁻¹⁹ ₅	41.5	⁻³¹ ₅	39.3	⁻⁴³ ₅	36.3	⁻⁵⁴ ₄	32.5	⁻⁶⁵ ₄	28.0	⁻⁷⁴ ₄	22.8	⁻⁸³ ₃	17.0	⁻⁹⁰ ₃	10.8	⁻⁹⁵ ₃	4.1	⁻¹⁰⁰ ₂	-5.9	⁻¹⁰⁴ ₁	-16.2	
Mar 6	43.6	⁻⁶ ₄	43.1	⁻¹⁹ ₃	41.8	⁻³² ₃	39.6	⁻⁴³ ₃	36.6	⁻⁵⁵ ₃	32.7	⁻⁶⁵ ₃	28.2	⁻⁷⁵ ₃	23.0	⁻⁸³ ₂	17.2	⁻⁹⁰ ₂	10.9	⁻⁹⁶ ₂	4.2	⁻¹⁰¹ ₁	-5.9	⁻¹⁰⁴ ₁	-16.3	
Mar 7	43.8	⁻⁶ ₂	43.4	⁻¹⁹ ₂	42.0	⁻³² ₁	39.8	⁻⁴⁴ ₁	36.8	⁻⁵⁵ ₁	32.9	⁻⁶⁵ ₁	28.3	⁻⁷⁵ ₁	23.1	⁻⁸³ ₁	17.3	⁻⁹¹ ₁	10.9	⁻⁹⁶ ₁	4.2	⁻¹⁰² ₁	-6.0	⁻¹⁰⁵ ₀	-16.4	
Mar 8	43.9	⁻⁶ ₋₁	43.5	⁻¹⁹ ₋₁	42.1	⁻³² ₋₁	39.9	⁻⁴⁴ ₋₁	36.8	⁻⁵⁵ ₋₁	33.0	⁻⁶⁶ ₋₁	28.4	⁻⁷⁵ ₋₁	23.2	⁻⁸³ ₋₁	17.3	⁻⁹¹ ₋₁	11.0	⁻⁹⁶ ₀	4.2	⁻¹⁰² ₀	-6.0	⁻¹⁰⁵ ₀	-16.4	
Mar 9	43.9	⁻⁶ ₋₃	43.4	⁻¹⁹ ₋₃	42.1	⁻³² ₋₃	39.9	⁻⁴³ ₋₃	36.8	⁻⁵⁵ ₋₃	33.0	⁻⁶⁵ ₋₃	28.4	⁻⁷⁵ ₋₃	23.1	⁻⁸³ ₋₂	17.3	⁻⁹⁰ ₋₂	10.9	⁻⁹⁶ ₋₂	4.2	⁻¹⁰¹ ₋₁	-6.0	⁻¹⁰⁴ ₋₁	-16.4	
Mar 10	43.6	⁻⁶ ₋₆	43.2	⁻¹⁹ ₋₆	41.8	⁻³¹ ₋₆	39.6	⁻⁴³ ₋₅	36.6	⁻⁵⁴ ₋₅	32.8	⁻⁶⁵ ₋₅	28.2	⁻⁷⁴ ₋₄	23.0	⁻⁸³ ₋₄	17.2	⁻⁹⁰ ₋₄	10.9	⁻⁹⁵ ₋₃	4.2	⁻¹⁰⁰ ₋₂	-5.9	⁻¹⁰⁴ ₋₂	-16.3	
Mar 11	43.2	⁻⁶ ₋₈	42.8	⁻¹⁹ ₋₈	41.5	⁻³¹ ₋₇	39.3	⁻⁴³ ₋₇	36.3	⁻⁵⁴ ₋₇	32.5	⁻⁶⁴ ₋₆	28.0	⁻⁷³ ₋₆	22.8	⁻⁸² ₋₅	17.0	⁻⁸⁹ ₋₅	10.8	⁻⁹⁴ ₋₄	4.1	⁻⁹⁹ ₋₃	-5.9	⁻¹⁰³ ₋₂	-16.2	
Mar 12	42.7	⁻⁶ ₋₉	42.3	⁻¹⁹ ₋₉	41.0	⁻³¹ ₋₈	38.8	⁻⁴² ₋₈	35.8	⁻⁵³ ₋₈	32.1	⁻⁶³ ₋₇	27.6	⁻⁷³ ₋₇	22.5	⁻⁸¹ ₋₆	16.8	⁻⁸⁸ ₋₅	10.7	⁻⁹³ ₋₅	4.1	⁻⁹⁸ ₋₄	-5.8	⁻¹⁰¹ ₋₂	-16.0	
Mar 13	42.1	⁻⁶ ₋₉	41.7	⁻¹⁸ ₋₉	40.4	⁻³⁰ ₋₉	38.3	⁻⁴² ₋₈	35.3	⁻⁵² ₋₈	31.6	⁻⁶² ₋₇	27.2	⁻⁷¹ ₋₇	22.2	⁻⁷⁹ ₋₆	16.6	⁻⁸⁶ ₋₆	10.5	⁻⁹² ₋₅	4.0	⁻⁹⁷ ₋₄	-5.7	⁻¹⁰⁰ ₋₃	-15.8	
Mar 14	41.5	⁻⁶ ₋₉	41.0	⁻¹⁸ ₋₈	39.8	⁻³⁰ ₋₈	37.7	⁻⁴¹ ₋₈	34.8	⁻⁵² ₋₈	31.2	⁻⁶¹ ₋₇	26.8	⁻⁷⁰ ₋₇	21.9	⁻⁷⁸ ₋₆	16.3	⁻⁸⁵ ₋₅	10.3	⁻⁹¹ ₋₅	4.0	⁻⁹⁵ ₋₄	-5.6	⁻⁹⁸ ₋₂	-15.5	
Mar 15	40.9	⁻⁶ ₋₈	40.5	⁻¹⁸ ₋₇	39.2	⁻²⁹ ₋₇	37.2	⁻⁴⁰ ₋₇	34.3	⁻⁵¹ ₋₇	30.7	⁻⁶¹ ₋₆	26.4	⁻⁶⁹ ₋₆	21.6	⁻⁷⁷ ₋₅	16.1	⁻⁸⁴ ₋₅	10.2	⁻⁸⁹ ₋₄	3.9	⁻⁹⁴ ₋₃	-5.6	⁻⁹⁷ ₋₂	-15.3	
Mar 16	40.4	⁻⁶ ₋₆	39.9	⁻¹⁸ ₋₆	38.7	⁻²⁹ ₋₆	36.7	⁻⁴⁰ ₋₆	33.9	⁻⁵⁰ ₋₅	30.3	⁻⁶⁰ ₋₅	26.1	⁻⁶⁹ ₋₅	21.3	⁻⁷⁶ ₋₄	15.9	⁻⁸³ ₋₄	10.1	⁻⁸⁸ ₋₃	3.9	⁻⁹³ ₋₃	-5.5	⁻⁹⁶ ₋₂	-15.1	
Mar 17	39.9	⁻⁶ ₋₄	39.5	⁻¹⁷ ₋₄	38.3	⁻²⁹ ₋₄	36.3	⁻⁴⁰ ₋₄	33.5	⁻⁵⁰ ₋₄	30.0	⁻⁵⁹ ₋₄	25.8	⁻⁶⁸ ₋₃	21.1	⁻⁷⁶ ₋₃	15.7	⁻⁸² ₋₃	10.0	⁻⁸⁷ ₋₂	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-15.0	
Mar 18	39.6	⁻⁶ ₋₃	39.2	⁻¹⁷ ₋₃	38.0	⁻²⁹ ₋₃	36.0	⁻³⁹ ₋₂	33.3	⁻⁵⁰ ₋₂	29.8	⁻⁵⁹ ₋₂	25.6	⁻⁶⁸ ₋₂	20.9	⁻⁷⁵ ₋₂	15.6	⁻⁸² ₋₂	9.9	⁻⁸⁷ ₋₁	3.8	⁻⁹² ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.8	
Mar 19	39.5	⁻⁶ ₋₁	39.0	⁻¹⁷ ₋₁	37.8	⁻²⁸ ₋₁	35.9	⁻³⁹ ₋₁	33.1	⁻⁴⁹ ₋₁	29.6	⁻⁵⁹ ₋₁	25.5	⁻⁶⁷ ₋₁	20.8	⁻⁷⁵ ₋₁	15.5	⁻⁸¹ ₀	9.8	⁻⁸⁷ ₀	3.8	⁻⁹¹ ₀	-5.4	⁻⁹⁴ ₀	-14.8	
Mar 20	39.4	⁻⁶ ₋₁	39.0	⁻¹⁷ ₋₁	37.8	⁻²⁸ ₋₁	35.8	⁻³⁹ ₋₁	33.1	⁻⁴⁹ ₋₁	29.6	⁻⁵⁹ ₋₁	25.5	⁻⁶⁷ ₋₁	20.8	⁻⁷⁵ ₋₁	15.5	⁻⁸¹ ₋₁	9.8	⁻⁸⁷ ₀	3.8	⁻⁹¹ ₀	-5.4	⁻⁹⁴ ₀	-14.8	
Mar 21	39.5	⁻⁶ ₋₂	39.1	⁻¹⁷ ₋₂	37.8	⁻²⁹ ₋₂	35.9	⁻³⁹ ₋₂	33.1	⁻⁵⁰ ₋₂	29.7	⁻⁵⁹ ₋₂	25.5	⁻⁶⁸ ₋₂	20.8	⁻⁷⁵ ₋₂	15.6	⁻⁸² ₋₁	9.8	⁻⁸⁷ ₋₁	3.8	⁻⁹² ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.8	
Mar 22	39.6	⁻⁶ ₋₄	39.2	⁻¹⁷ ₋₄	38.0	⁻²⁹ ₋₄	36.0	⁻⁴⁰ ₋₃	33.3	⁻⁵⁰ ₋₃	29.8	⁻⁵⁹ ₋₃	25.6	⁻⁶⁸ ₋₃	20.9	⁻⁷⁶ ₋₃	15.6	⁻⁸² ₋₂	9.9	⁻⁸⁷ ₋₂	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-14.8	
Mar 23	39.9	⁻⁶ ₋₅	39.5	⁻¹⁷ ₋₅	38.3	⁻²⁹ ₋₄	36.2	⁻⁴⁰ ₋₄	33.5	⁻⁵⁰ ₋₄	30.0	⁻⁶⁰ ₋₄	25.8	⁻⁶⁸ ₋₄	21.0	⁻⁷⁶ ₋₃	15.7	⁻⁸³ ₋₃	9.9	⁻⁸⁸						

Lower Limb																																													
Altitude degrees																																													
	0			7			14			21			28			35			42			49			56			63			70			80			90								
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Apr 3	75.6	⁻⁶	₁	75.1	⁻¹⁹	₁	73.8	⁻³¹	₁	71.6	⁻⁴³	₁	68.6	⁻⁵⁴	₁	64.8	⁻⁶⁵	₁	60.3	⁻⁷⁴	₁	55.1	⁻⁸²	₁	49.4	⁻⁸⁹	₁	43.1	⁻⁹⁵	₁	36.5	⁻¹⁰⁰	₀	26.5	⁻¹⁰³	₀	16.2								
Apr 4	75.7	⁻⁶	₀	75.3	⁻¹⁹	₀	73.9	⁻³¹	₀	71.8	⁻⁴³	₀	68.7	⁻⁵⁴	₀	65.0	⁻⁶⁵	₀	60.4	⁻⁷⁴	₀	55.2	⁻⁸²	₀	49.5	⁻⁸⁹	₀	43.2	⁻⁹⁵	₀	36.6	⁻¹⁰⁰	₀	26.5	⁻¹⁰³	₀	16.2								
Apr 5	75.7	⁻⁶	₋₁	75.3	⁻¹⁹	₋₁	73.9	⁻³¹	₋₁	71.8	⁻⁴³	₋₁	68.7	⁻⁵⁴	₋₁	64.9	⁻⁶⁵	₋₁	60.4	⁻⁷⁴	₋₁	55.2	⁻⁸²	₋₁	49.5	⁻⁸⁹	₋₁	43.2	⁻⁹⁵	₋₁	36.6	⁻¹⁰⁰	₋₁	26.5	⁻¹⁰³	₀	16.2								
Apr 6	75.5	⁻⁶	₋₃	75.1	⁻¹⁹	₋₃	73.8	⁻³¹	₋₃	71.6	⁻⁴³	₋₃	68.6	⁻⁵⁴	₋₃	64.8	⁻⁶⁴	₋₃	60.3	⁻⁷⁴	₋₂	55.1	⁻⁸²	₋₂	49.4	⁻⁸⁹	₋₂	43.1	⁻⁹⁵	₋₂	36.5	⁻¹⁰⁰	₋₁	26.5	⁻¹⁰³	₋₁	16.2								
Apr 7	75.2	⁻⁶	₋₅	74.7	⁻¹⁹	₋₅	73.4	⁻³¹	₋₄	71.2	⁻⁴³	₋₄	68.2	⁻⁵⁴	₋₄	64.5	⁻⁶⁴	₋₄	60.0	⁻⁷³	₋₄	54.8	⁻⁸¹	₋₃	49.1	⁻⁸⁸	₋₃	42.9	⁻⁹⁴	₋₂	36.3	⁻⁹⁹	₋₂	26.3	⁻¹⁰²	₋₁	16.1								
Apr 8	74.6	⁻⁶	₋₆	74.2	⁻¹⁹	₋₆	72.9	⁻³¹	₋₆	70.7	⁻⁴²	₋₆	67.7	⁻⁵³	₋₅	64.0	⁻⁶³	₋₅	59.5	⁻⁷³	₋₅	54.4	⁻⁸¹	₋₄	48.8	⁻⁸⁸	₋₄	42.6	⁻⁹³	₋₃	36.0	⁻⁹⁸	₋₂	26.2	⁻¹⁰¹	₋₂	16.0								
Apr 9	73.9	⁻⁶	₋₇	73.5	⁻¹⁸	₋₇	72.2	⁻³⁰	₋₇	70.0	⁻⁴²	₋₆	67.1	⁻⁵³	₋₆	63.4	⁻⁶³	₋₆	59.0	⁻⁷²	₋₅	53.9	⁻⁸⁰	₋₅	48.3	⁻⁸⁷	₋₄	42.2	⁻⁹²	₋₄	35.7	⁻⁹⁷	₋₃	25.9	⁻¹⁰⁰	₋₂	15.8								
Apr 10	73.1	⁻⁶	₋₇	72.6	⁻¹⁸	₋₇	71.3	⁻³⁰	₋₇	69.2	⁻⁴¹	₋₇	66.3	⁻⁵²	₋₇	62.7	⁻⁶²	₋₆	58.3	⁻⁷¹	₋₆	53.3	⁻⁷⁹	₋₅	47.7	⁻⁸⁶	₋₅	41.7	⁻⁹¹	₋₄	35.3	⁻⁹⁶	₋₃	25.6	⁻⁹⁹	₋₂	15.6								
Apr 11	72.2	⁻⁶	₋₇	71.7	⁻¹⁸	₋₇	70.5	⁻³⁰	₋₇	68.4	⁻⁴¹	₋₇	65.5	⁻⁵¹	₋₆	61.9	⁻⁶¹	₋₆	57.6	⁻⁷⁰	₋₆	52.7	⁻⁷⁸	₋₅	47.2	⁻⁸⁵	₋₄	41.2	⁻⁹⁰	₋₄	34.9	⁻⁹⁵	₋₃	25.3	⁻⁹⁸	₋₂	15.5								
Apr 12	71.3	⁻⁶	₋₇	70.9	⁻¹⁸	₋₇	69.6	⁻²⁹	₋₆	67.6	⁻⁴⁰	₋₆	64.7	⁻⁵¹	₋₆	61.2	⁻⁶¹	₋₅	56.9	⁻⁶⁹	₋₅	52.0	⁻⁷⁷	₋₅	46.6	⁻⁸⁴	₋₄	40.7	⁻⁸⁹	₋₃	34.4	⁻⁹⁴	₋₃	25.0	⁻⁹⁷	₋₂	15.3								
Apr 13	70.5	⁻⁶	₋₅	70.1	⁻¹⁸	₋₅	68.9	⁻²⁹	₋₅	66.8	⁻⁴⁰	₋₅	64.0	⁻⁵⁰	₋₅	60.5	⁻⁶⁰	₋₅	56.3	⁻⁶⁹	₋₄	51.4	⁻⁷⁶	₋₄	46.1	⁻⁸³	₋₃	40.2	⁻⁸⁸	₋₃	34.0	⁻⁹³	₋₂	24.7	⁻⁹⁶	₋₂	15.1								
Apr 14	69.8	⁻⁶	₋₄	69.4	⁻¹⁷	₋₄	68.2	⁻²⁹	₋₄	66.2	⁻⁴⁰	₋₄	63.4	⁻⁵⁰	₋₄	59.9	⁻⁵⁹	₋₃	55.7	⁻⁶⁸	₋₃	51.0	⁻⁷⁶	₋₃	45.6	⁻⁸²	₋₂	39.9	⁻⁸⁷	₋₂	33.7	⁻⁹²	₋₂	24.5	⁻⁹⁵	₋₁	15.0								
Apr 15	69.4	⁻⁶	₋₂	69.0	⁻¹⁷	₋₂	67.7	⁻²⁹	₋₂	65.7	⁻³⁹	₋₂	63.0	⁻⁵⁰	₋₂	59.5	⁻⁵⁹	₋₂	55.4	⁻⁶⁸	₋₂	50.6	⁻⁷⁵	₋₂	45.3	⁻⁸²	₋₁	39.6	⁻⁸⁷	₋₁	33.5	⁻⁹²	₋₁	24.3	⁻⁹⁴	₋₁	14.9								
Apr 16	69.1	⁻⁶	₋₁	68.7	⁻¹⁷	₋₁	67.5	⁻²⁸	₀	65.5	⁻³⁹	₀	62.7	⁻⁴⁹	₀	59.3	⁻⁵⁹	₀	55.1	⁻⁶⁸	₀	50.4	⁻⁷⁵	₀	45.1	⁻⁸²	₀	39.4	⁻⁸⁷	₀	33.4	⁻⁹¹	₀	24.2	⁻⁹⁴	₀	14.8								
Apr 17	69.0	⁻⁶	₁	68.6	⁻¹⁷	₁	67.4	⁻²⁸	₁	65.4	⁻³⁹	₁	62.7	⁻⁴⁹	₁	59.2	⁻⁵⁹	₁	55.1	⁻⁶⁸	₁	50.4	⁻⁷⁵	₁	45.1	⁻⁸²	₁	39.4	⁻⁸⁷	₁	33.3	⁻⁹¹	₁	24.2	⁻⁹⁴	₀	14.8								
Apr 18	69.2	⁻⁶	₃	68.8	⁻¹⁷	₃	67.6	⁻²⁹	₃	65.6	⁻³⁹	₃	62.8	⁻⁵⁰	₃	59.3	⁻⁵⁹	₃	55.2	⁻⁶⁸	₂	50.5	⁻⁷⁵	₂	45.2	⁻⁸²	₂	39.5	⁻⁸⁷	₂	33.4	⁻⁹²	₁	24.3	⁻⁹⁵	₁	14.8								
Apr 19	69.5	⁻⁶	₅	69.1	⁻¹⁷	₅	67.9	⁻²⁹	₄	65.9	⁻⁴⁰	₄	63.1	⁻⁵⁰	₄	59.7	⁻⁶⁰	₄	55.5	⁻⁶⁸	₄	50.7	⁻⁷⁶	₃	45.5	⁻⁸²	₃	39.7	⁻⁸⁸	₂	33.6	⁻⁹²	₂	24.4	⁻⁹⁵	₁	14.9								
Apr 20	70.1	⁻⁶	₆	69.7	⁻¹⁸	₆	68.5	⁻²⁹	₆	66.4	⁻⁴⁰	₅	63.7	⁻⁵⁰	₅	60.1	⁻⁶⁰	₅	55.9	⁻⁶⁹	₅	51.2	⁻⁷⁷	₄	45.8	⁻⁸³	₄	40.0	⁻⁸⁹	₃	33.9	⁻⁹³	₂	24.6	⁻⁹⁶	₂	15.0								
Apr 21	70.8	⁻⁶	₇	70.4	⁻¹⁸	₇	69.2	⁻²⁹	₆	67.1	⁻⁴⁰	₆	64.3	⁻⁵¹	₆	60.7	⁻⁶¹	₆	56.5	⁻⁷⁰	₅	51.7	⁻⁷⁷	₅	46.3	⁻⁸⁴	₄	40.4	⁻⁹⁰	₄	34.2	⁻⁹⁴	₃	24.8	⁻⁹⁷	₂	15.2								
Apr 22	71.6	⁻⁶	₇	71.2	⁻¹⁸	₇	69.9	⁻³⁰	₇	67.9	⁻⁴¹	₇	65.0	⁻⁵²	₆	61.4	⁻⁶¹	₆	57.2	⁻⁷⁰	₅	52.3	⁻⁷⁸	₅	46.8	⁻⁸⁵	₄	40.9	⁻⁹¹	₄	34.6	⁻⁹⁵	₃	25.1	⁻⁹⁸	₂	15.3								
Apr 23	72.5	⁻⁶	₇	72.0	⁻¹⁸	₇	70.8	⁻³⁰	₇	68.7	⁻⁴¹	₆	65.8	⁻⁵²	₆	62.2	⁻⁶²	₆	57.8	⁻⁷¹	₅	52.9	⁻⁷⁹	₅	47.4	⁻⁸⁶	₄	41.4	⁻⁹²	₄	35.0	⁻⁹⁶	₃	25.4	⁻⁹⁹	₂	15.5								
Apr 24	73.3	⁻⁶	₆	72.9	⁻¹⁸	₆	71.6	⁻³⁰	₆	69.5	⁻⁴²	₆	66.6	⁻⁵³	₆	62.9	⁻⁶³	₅	58.5	⁻⁷²	₅	53.5	⁻⁸⁰	₄	47.9	⁻⁸⁷	₄	41.8	⁻⁹³	₃	35.4	⁻⁹⁷	₃	25.7	⁻¹⁰¹	₂	15.7								
Apr 25	74.1	⁻⁶	₅	73.6	⁻¹⁹	₅	72.3	⁻³¹	₅	70.2	⁻⁴²	₅	67.2	⁻⁵³	₅	63.5	⁻⁶³	₄	59.1	⁻⁷³	₄	54.0	⁻⁸¹	₄	48.4	⁻⁸⁸	₃	42.3	⁻⁹³	₃	35.8	⁻⁹⁸	₂	26.0	⁻¹⁰¹	₁	15.9								
Apr 26	74.7	⁻⁶	₄	74.3	⁻¹⁹	₄	72.9	⁻³¹	₄	70.8	⁻⁴³	₄	67.8	⁻⁵⁴	₃	64.1	⁻⁶⁴	₃	59.6	⁻⁷³	₃	54.5	⁻⁸¹	₃	48.8	⁻⁸⁸	₂	42.6	⁻⁹⁴	₂	36.1	⁻⁹⁹	₂	26.2	⁻¹⁰²	₁	16.0								
Apr 27	75.2	⁻⁶	₃	74.7	⁻¹⁹	₂	73.4	⁻³¹	₂	71.2	⁻⁴³	₂	68.3	⁻⁵⁴	₂	64.5	⁻⁶⁴	₂	60.0	⁻⁷⁴	₂	54.8	⁻⁸²	₂	49.1	⁻⁸⁹	₂	42.9	⁻⁹⁵	₁	36.3	⁻¹⁰⁰	₁	26.4	⁻¹⁰³	₁	16.1								
Apr 28	75.5	⁻⁶	₁	75.0	⁻¹⁹	₁	73.7	⁻³¹	₁	71.5	⁻⁴³	₁	68.5	⁻⁵⁴	₁	64.7	⁻⁶⁴	₁	60.2	⁻⁷⁴	₁	55.1	⁻⁸²	₁	49.3	⁻⁸⁹	₁	43.1	⁻⁹⁵	₁	36.4	⁻¹⁰⁰	₀	26.5	⁻¹⁰³	₀	16.2								
Apr 29	75.6	⁻⁶	₀	75.2	⁻¹⁹	₀	73.8	⁻³¹	₀	71.7	⁻⁴³	₀	68.7	⁻⁵⁴	₀	64.9	⁻⁶⁵	₀	60.3	⁻⁷⁴	₀	55.2	⁻⁸²	₀	49.4	⁻⁸⁹	₀	43.2	⁻⁹⁵	₀	36.5	⁻¹⁰⁰	₀	26.5	⁻¹⁰³	₀	16.2								
Apr 30	75.6	⁻⁶	₋₁	75.2	⁻¹⁹	₋₁	73.8	⁻³¹	₋₁	71.7	⁻⁴³	₋₁	68.6	⁻⁵⁴	₋₁	64.9	⁻⁶⁴	₋₁	60.3	⁻⁷⁴	₋₁	55.2	⁻⁸²	₋₁	49.4	⁻⁸⁹	₋₁	43.2	⁻⁹⁵	₋₁	36.5	⁻¹⁰⁰	₀	26.5	⁻¹⁰³	₀	16.2								
May 1	75.5	⁻⁶	₋₂	75.0	⁻¹⁹	₋₂	73.7	⁻³¹	₋₂	71.5	⁻⁴³	₋₂	68.5	⁻⁵⁴	₋₂	64.7	⁻⁶⁴	₋₂	60.2	⁻⁷⁴	₋₁	55.1	⁻⁸²	₋₁	49.3	⁻⁸⁹	₋₁	43.1	⁻⁹⁵	₋₁	36.4	⁻¹⁰⁰	₋₁	26.5	⁻¹⁰³	₋₁	16.2								
May 2	75.2	⁻⁶	₋₃	74.8	⁻¹⁹	₋₃	73.5	⁻³¹	₋₃	71.3	⁻⁴³	₋₃	68.3	⁻⁵⁴	₋₂	64.5	⁻⁶⁴	₋₂	60.0	⁻⁷³	₋₂	54.9	⁻⁸²	₋₂	49.2	⁻⁸⁹	₋₂	42.9	⁻⁹⁴	₋₁	36.3	⁻⁹⁹	₋₁	26.4	⁻¹⁰²	₋₁	16.1								
May 3	74.9	⁻⁶	₋₃	74.5	⁻¹⁹	₋₃	73.2	⁻³¹	₋₃	71.0	⁻⁴²	₋₃	68.0	⁻⁵⁴	₋₃	64.3	⁻⁶⁴	₋₃	59.8	⁻⁷³	₋₃	54.7	⁻⁸¹	₋₂	49.0	⁻⁸⁸	₋₂	42.8	⁻⁹⁴	₋₂	36.2	⁻⁹⁹	₋₁												

2005

Moon Parallax and Semi-diameter

Upper Limb																																										
Altitude degrees																																										
	0			7			14			21			28			35			42			49			56			63			70			80			90					
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Apr 3	43.2	⁻⁶	₁	42.8	⁻¹⁹	₁	41.4	⁻³¹	₁	39.3	⁻⁴³	₁	36.3	⁻⁵⁴	₁	32.5	⁻⁶⁵	₁	28.0	⁻⁷⁴	₁	22.8	⁻⁸²	₁	17.0	⁻⁸⁹	₁	10.8	⁻⁹⁵	₁	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2					
Apr 4	43.3	⁻⁶	₀	42.8	⁻¹⁹	₀	41.5	⁻³¹	₀	39.3	⁻⁴³	₀	36.3	⁻⁵⁴	₀	32.5	⁻⁶⁵	₀	28.0	⁻⁷⁴	₀	22.8	⁻⁸²	₀	17.1	⁻⁸⁹	₀	10.8	⁻⁹⁵	₀	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2					
Apr 5	43.3	⁻⁶	₋₁	42.8	⁻¹⁹	₋₁	41.5	⁻³¹	₋₁	39.3	⁻⁴³	₋₁	36.3	⁻⁵⁴	₋₁	32.5	⁻⁶⁵	₋₁	28.0	⁻⁷⁴	₋₁	22.8	⁻⁸²	₋₁	17.1	⁻⁸⁹	₋₁	10.8	⁻⁹⁵	₋₁	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₀	-16.2					
Apr 6	43.2	⁻⁶	₋₃	42.7	⁻¹⁹	₋₃	41.4	⁻³¹	₋₃	39.2	⁻⁴³	₋₃	36.2	⁻⁵⁴	₋₃	32.4	⁻⁶⁴	₋₃	27.9	⁻⁷⁴	₋₂	22.8	⁻⁸²	₋₂	17.0	⁻⁸⁹	₋₂	10.8	⁻⁹⁵	₋₂	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.2					
Apr 7	43.0	⁻⁶	₋₅	42.5	⁻¹⁹	₋₅	41.2	⁻³¹	₋₄	39.0	⁻⁴³	₋₄	36.1	⁻⁵⁴	₋₄	32.3	⁻⁶⁴	₋₄	27.8	⁻⁷³	₋₄	22.7	⁻⁸¹	₋₃	16.9	⁻⁸⁸	₋₃	10.7	⁻⁹⁴	₋₂	4.1	⁻⁹⁹	₋₂	-5.8	⁻¹⁰²	₋₁	-16.1					
Apr 8	42.6	⁻⁶	₋₆	42.2	⁻¹⁹	₋₆	40.9	⁻³¹	₋₆	38.8	⁻⁴²	₋₆	35.8	⁻⁵³	₋₅	32.0	⁻⁶³	₋₅	27.6	⁻⁷³	₋₅	22.5	⁻⁸¹	₋₄	16.8	⁻⁸⁸	₋₄	10.6	⁻⁹³	₋₃	4.1	⁻⁹⁸	₋₂	-5.8	⁻¹⁰¹	₋₂	-16.0					
Apr 9	42.2	⁻⁶	₋₇	41.8	⁻¹⁸	₋₇	40.5	⁻³⁰	₋₇	38.4	⁻⁴²	₋₆	35.4	⁻⁵³	₋₆	31.7	⁻⁶³	₋₆	27.3	⁻⁷²	₋₅	22.3	⁻⁸⁰	₋₅	16.6	⁻⁸⁷	₋₄	10.5	⁻⁹²	₋₄	4.0	⁻⁹⁷	₋₃	-5.7	⁻¹⁰⁰	₋₂	-15.8					
Apr 10	41.8	⁻⁶	₋₇	41.3	⁻¹⁸	₋₇	40.1	⁻³⁰	₋₇	38.0	⁻⁴¹	₋₇	35.0	⁻⁵²	₋₇	31.4	⁻⁶²	₋₆	27.0	⁻⁷¹	₋₆	22.0	⁻⁷⁹	₋₅	16.5	⁻⁸⁶	₋₅	10.4	⁻⁹¹	₋₄	4.0	⁻⁹⁶	₋₃	-5.7	⁻⁹⁹	₋₂	-15.6					
Apr 11	41.3	⁻⁶	₋₇	40.8	⁻¹⁸	₋₇	39.6	⁻³⁰	₋₇	37.5	⁻⁴¹	₋₇	34.6	⁻⁵¹	₋₆	31.0	⁻⁶¹	₋₆	26.7	⁻⁷⁰	₋₆	21.8	⁻⁷⁸	₋₅	16.3	⁻⁸⁵	₋₄	10.3	⁻⁹⁰	₋₄	3.9	⁻⁹⁵	₋₃	-5.6	⁻⁹⁸	₋₂	-15.5					
Apr 12	40.8	⁻⁶	₋₇	40.3	⁻¹⁸	₋₇	39.1	⁻²⁹	₋₆	37.0	⁻⁴⁰	₋₆	34.2	⁻⁵¹	₋₆	30.6	⁻⁶¹	₋₅	26.4	⁻⁶⁹	₋₅	21.5	⁻⁷⁷	₋₅	16.1	⁻⁸⁴	₋₄	10.2	⁻⁸⁹	₋₃	3.9	⁻⁹⁴	₋₃	-5.5	⁻⁹⁷	₋₂	-15.3					
Apr 13	40.3	⁻⁶	₋₅	39.9	⁻¹⁸	₋₅	38.7	⁻²⁹	₋₅	36.6	⁻⁴⁰	₋₅	33.8	⁻⁵⁰	₋₅	30.3	⁻⁶⁰	₋₅	26.1	⁻⁶⁹	₋₄	21.3	⁻⁷⁶	₋₄	15.9	⁻⁸³	₋₃	10.1	⁻⁸⁸	₋₃	3.9	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₂	-15.1					
Apr 14	39.9	⁻⁶	₋₄	39.5	⁻¹⁷	₋₄	38.3	⁻²⁹	₋₄	36.3	⁻⁴⁰	₋₄	33.5	⁻⁵⁰	₋₄	30.0	⁻⁵⁹	₋₃	25.8	⁻⁶⁸	₋₃	21.1	⁻⁷⁶	₋₃	15.7	⁻⁸²	₋₂	10.0	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₂	-5.4	⁻⁹⁵	₋₁	-15.0					
Apr 15	39.7	⁻⁶	₋₂	39.2	⁻¹⁷	₋₂	38.0	⁻²⁹	₋₂	36.0	⁻³⁹	₋₂	33.3	⁻⁵⁰	₋₂	29.8	⁻⁵⁹	₋₂	25.7	⁻⁶⁸	₋₂	20.9	⁻⁷⁵	₋₂	15.6	⁻⁸²	₋₁	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁴	₋₁	-14.9					
Apr 16	39.5	⁻⁶	₋₁	39.1	⁻¹⁷	₋₁	37.9	⁻²⁸	₀	35.9	⁻³⁹	₀	33.1	⁻⁴⁹	₀	29.7	⁻⁵⁹	₀	25.5	⁻⁶⁸	₀	20.8	⁻⁷⁵	₀	15.6	⁻⁸²	₀	9.9	⁻⁸⁷	₀	3.8	⁻⁹¹	₀	-5.4	⁻⁹⁴	₀	-14.8					
Apr 17	39.5	⁻⁶	₁	39.0	⁻¹⁷	₁	37.8	⁻²⁸	₁	35.9	⁻³⁹	₁	33.1	⁻⁴⁹	₁	29.6	⁻⁵⁹	₁	25.5	⁻⁶⁸	₁	20.8	⁻⁷⁵	₁	15.5	⁻⁸²	₁	9.8	⁻⁸⁷	₁	3.8	⁻⁹¹	₁	-5.4	⁻⁹⁴	₀	-14.8					
Apr 18	39.5	⁻⁶	₃	39.1	⁻¹⁷	₃	37.9	⁻²⁹	₃	35.9	⁻³⁹	₃	33.2	⁻⁵⁰	₃	29.7	⁻⁵⁹	₃	25.6	⁻⁶⁸	₂	20.8	⁻⁷⁵	₂	15.6	⁻⁸²	₂	9.9	⁻⁸⁷	₂	3.8	⁻⁹²	₁	-5.4	⁻⁹⁵	₁	-14.8					
Apr 19	39.8	⁻⁶	₅	39.3	⁻¹⁷	₅	38.1	⁻²⁹	₄	36.1	⁻⁴⁰	₄	33.4	⁻⁵⁰	₄	29.9	⁻⁶⁰	₄	25.7	⁻⁶⁸	₄	21.0	⁻⁷⁶	₃	15.7	⁻⁸²	₃	9.9	⁻⁸⁸	₂	3.8	⁻⁹²	₂	-5.4	⁻⁹⁵	₁	-14.9					
Apr 20	40.1	⁻⁶	₆	39.7	⁻¹⁸	₆	38.4	⁻²⁹	₆	36.4	⁻⁴⁰	₅	33.6	⁻⁵⁰	₅	30.1	⁻⁶⁰	₅	25.9	⁻⁶⁹	₅	21.1	⁻⁷⁷	₄	15.8	⁻⁸³	₄	10.0	⁻⁸⁹	₃	3.8	⁻⁹³	₂	-5.4	⁻⁹⁶	₂	-15.0					
Apr 21	40.5	⁻⁶	₇	40.1	⁻¹⁸	₇	38.8	⁻²⁹	₆	36.8	⁻⁴⁰	₆	34.0	⁻⁵¹	₆	30.4	⁻⁶¹	₆	26.2	⁻⁷⁰	₅	21.3	⁻⁷⁷	₅	16.0	⁻⁸⁴	₄	10.1	⁻⁹⁰	₄	3.9	⁻⁹⁴	₃	-5.5	⁻⁹⁷	₂	-15.2					
Apr 22	40.9	⁻⁶	₇	40.5	⁻¹⁸	₇	39.3	⁻³⁰	₇	37.2	⁻⁴¹	₇	34.4	⁻⁵²	₆	30.8	⁻⁶¹	₆	26.5	⁻⁷⁰	₅	21.6	⁻⁷⁸	₅	16.1	⁻⁸⁵	₄	10.2	⁻⁹¹	₄	3.9	⁻⁹⁵	₃	-5.6	⁻⁹⁸	₂	-15.3					
Apr 23	41.4	⁻⁶	₇	41.0	⁻¹⁸	₇	39.7	⁻³⁰	₇	37.6	⁻⁴¹	₆	34.8	⁻⁵²	₆	31.1	⁻⁶²	₆	26.8	⁻⁷¹	₅	21.8	⁻⁷⁹	₅	16.3	⁻⁸⁶	₄	10.3	⁻⁹²	₄	4.0	⁻⁹⁶	₃	-5.6	⁻⁹⁹	₂	-15.5					
Apr 24	41.9	⁻⁶	₆	41.5	⁻¹⁸	₆	40.2	⁻³⁰	₆	38.1	⁻⁴²	₆	35.2	⁻⁵³	₆	31.5	⁻⁶³	₅	27.1	⁻⁷²	₅	22.1	⁻⁸⁰	₄	16.5	⁻⁸⁷	₄	10.5	⁻⁹³	₃	4.0	⁻⁹⁷	₃	-5.7	⁻¹⁰¹	₂	-15.7					
Apr 25	42.3	⁻⁶	₅	41.9	⁻¹⁹	₅	40.6	⁻³¹	₅	38.5	⁻⁴²	₅	35.5	⁻⁵³	₅	31.8	⁻⁶³	₄	27.4	⁻⁷³	₄	22.3	⁻⁸¹	₄	16.7	⁻⁸⁸	₃	10.6	⁻⁹³	₃	4.0	⁻⁹⁸	₂	-5.8	⁻¹⁰¹	₁	-15.9					
Apr 26	42.7	⁻⁶	₄	42.3	⁻¹⁹	₄	41.0	⁻³¹	₄	38.8	⁻⁴³	₄	35.8	⁻⁵⁴	₃	32.1	⁻⁶⁴	₃	27.6	⁻⁷³	₃	22.5	⁻⁸¹	₃	16.8	⁻⁸⁸	₂	10.7	⁻⁹⁴	₂	4.1	⁻⁹⁹	₂	-5.8	⁻¹⁰²	₁	-16.0					
Apr 27	43.0	⁻⁶	₃	42.5	⁻¹⁹	₂	41.2	⁻³¹	₂	39.0	⁻⁴³	₂	36.1	⁻⁵⁴	₂	32.3	⁻⁶⁴	₂	27.8	⁻⁷⁴	₂	22.7	⁻⁸²	₂	16.9	⁻⁸⁹	₂	10.7	⁻⁹⁵	₁	4.1	⁻¹⁰⁰	₁	-5.8	⁻¹⁰³	₁	-16.1					
Apr 28	43.1	⁻⁶	₁	42.7	⁻¹⁹	₁	41.4	⁻³¹	₁	39.2	⁻⁴³	₁	36.2	⁻⁵⁴	₁	32.4	⁻⁶⁴	₁	27.9	⁻⁷⁴	₁	22.7	⁻⁸²	₁	17.0	⁻⁸⁹	₁	10.8	⁻⁹⁵	₁	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2					
Apr 29	43.2	⁻⁶	₀	42.8	⁻¹⁹	₀	41.5	⁻³¹	₀	39.3	⁻⁴³	₀	36.3	⁻⁵⁴	₀	32.5	⁻⁶⁵	₀	28.0	⁻⁷⁴	₀	22.8	⁻⁸²	₀	17.0	⁻⁸⁹	₀	10.8	⁻⁹⁵	₀	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2					
Apr 30	43.2	⁻⁶	₋₁	42.8	⁻¹⁹	₋₁	41.5	⁻³¹	₋₁	39.3	⁻⁴³	₋₁	36.3	⁻⁵⁴	₋₁	32.5	⁻⁶⁴	₋₁	28.0	⁻⁷⁴	₋₁	22.8	⁻⁸²	₋₁	17.0	⁻⁸⁹	₋₁	10.8	⁻⁹⁵	₋₁	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2					
May 1	43.1	⁻⁶	₋₂	42.7	⁻¹⁹	₋₂	41.4	⁻³¹	₋₂	39.2	⁻⁴³	₋₂	36.2	⁻⁵⁴	₋₂	32.4	⁻⁶⁴	₋₂	27.9	⁻⁷⁴	₋₁	22.7	⁻⁸²	₋₁	17.0	⁻⁸⁹	₋₁	10.8	⁻⁹⁵	₋₁	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.2					
May 2	43.0	⁻⁶	₋₃	42.6	⁻¹⁹	₋₃	41.3	⁻³¹	₋₃	39.1	⁻⁴³	₋₃	36.1	⁻⁵⁴	₋₂	32.3	⁻⁶⁴	₋₂	27.8	⁻⁷³	₋₂	22.7	⁻⁸²	₋₂	16.9	⁻⁸⁹	₋₂	10.7	⁻⁹⁴	₋₁	4.1	⁻⁹⁹	₋₁	-5.8	⁻¹⁰²	₋₁	-16.1					
May 3	42.8	⁻⁶	₋₃	42.4	⁻¹⁹	₋₃	41.1	⁻³¹	₋₃	38.9	⁻⁴²	₋₃	35.9	⁻⁵⁴	₋₃	32.2	⁻⁶⁴	₋₃	27.7	⁻⁷³	₋₃	22.6	⁻⁸¹	₋₂	16.9	⁻⁸⁸	₋₂	10.7	⁻⁹⁴	₋₂	4.1	⁻⁹⁹	₋₁	-5.8	⁻¹⁰²	₋₁	-16.0					
May 4	42.6	⁻⁶	₋₄ </																																							

2005

Moon Parallax and Semi-diameter

Lower Limb																																										
Altitude degrees																																										
	0			7			14			21			28			35			42			49			56			63			70			80			90					
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
May 19	71.0	⁻⁶ ₈	70.6	⁻¹⁸ ₈	69.4	⁻²⁹ ₈	67.3	⁻⁴¹ ₇	64.5	⁻⁵¹ ₇	60.9	⁻⁶¹ ₇	56.7	⁻⁷⁰ ₆	51.8	⁻⁷⁸ ₅	46.4	⁻⁸⁴ ₅	40.6	⁻⁹⁰ ₄	34.3	⁻⁹⁵ ₃	24.9	⁻⁹⁸ ₂	15.2																	
May 20	72.0	⁻⁶ ₉	71.6	⁻¹⁸ ₈	70.3	⁻³⁰ ₈	68.2	⁻⁴¹ ₈	65.4	⁻⁵² ₈	61.8	⁻⁶² ₇	57.5	⁻⁷¹ ₇	52.5	⁻⁷⁹ ₆	47.0	⁻⁸⁶ ₅	41.1	⁻⁹¹ ₅	34.8	⁻⁹⁶ ₄	25.2	⁻⁹⁹ ₂	15.4																	
May 21	73.0	⁻⁶ ₉	72.6	⁻¹⁸ ₈	71.3	⁻³⁰ ₈	69.2	⁻⁴² ₈	66.3	⁻⁵³ ₈	62.6	⁻⁶³ ₇	58.3	⁻⁷² ₇	53.3	⁻⁸⁰ ₆	47.7	⁻⁸⁷ ₅	41.7	⁻⁹² ₅	35.3	⁻⁹⁷ ₄	25.6	⁻¹⁰⁰ ₂	15.6																	
May 22	74.0	⁻⁶ ₈	73.6	⁻¹⁹ ₈	72.3	⁻³¹ ₈	70.2	⁻⁴² ₇	67.2	⁻⁵³ ₇	63.5	⁻⁶⁴ ₇	59.1	⁻⁷³ ₆	54.0	⁻⁸¹ ₅	48.4	⁻⁸⁸ ₅	42.3	⁻⁹⁴ ₄	35.8	⁻⁹⁹ ₃	26.0	⁻¹⁰² ₂	15.9																	
May 23	75.0	⁻⁶ ₆	74.6	⁻¹⁹ ₆	73.2	⁻³¹ ₆	71.1	⁻⁴³ ₆	68.1	⁻⁵⁴ ₆	64.3	⁻⁶⁴ ₅	59.9	⁻⁷⁴ ₅	54.7	⁻⁸² ₄	49.0	⁻⁸⁹ ₄	42.8	⁻⁹⁵ ₃	36.2	⁻¹⁰⁰ ₃	26.3	⁻¹⁰³ ₂	16.1																	
May 24	75.8	⁻⁶ ₅	75.3	⁻¹⁹ ₄	74.0	⁻³¹ ₄	71.8	⁻⁴³ ₄	68.8	⁻⁵⁴ ₄	65.0	⁻⁶⁵ ₄	60.5	⁻⁷⁴ ₃	55.3	⁻⁸³ ₃	49.5	⁻⁹⁰ ₃	43.3	⁻⁹⁶ ₂	36.6	⁻¹⁰¹ ₂	26.6	⁻¹⁰⁴ ₁	16.2																	
May 25	76.3	⁻⁶ ₂	75.9	⁻¹⁹ ₂	74.5	⁻³² ₂	72.3	⁻⁴³ ₂	69.3	⁻⁵⁵ ₂	65.5	⁻⁶⁵ ₂	60.9	⁻⁷⁵ ₂	55.7	⁻⁸³ ₂	49.9	⁻⁹⁰ ₁	43.6	⁻⁹⁶ ₁	36.9	⁻¹⁰¹ ₁	26.8	⁻¹⁰⁴ ₁	16.3																	
May 26	76.6	⁻⁶ ₀	76.1	⁻¹⁹ ₀	74.8	⁻³² ₀	72.6	⁻⁴⁴ ₀	69.5	⁻⁵⁵ ₀	65.7	⁻⁶⁵ ₀	61.1	⁻⁷⁵ ₀	55.9	⁻⁸³ ₀	50.1	⁻⁹⁰ ₀	43.7	⁻⁹⁶ ₀	37.0	⁻¹⁰¹ ₀	26.8	⁻¹⁰⁴ ₀	16.4																	
May 27	76.6	⁻⁶ ₋₂	76.1	⁻¹⁹ ₋₂	74.8	⁻³² ₋₂	72.6	⁻⁴³ ₋₂	69.5	⁻⁵⁵ ₋₂	65.7	⁻⁶⁵ ₋₂	61.1	⁻⁷⁵ ₋₂	55.9	⁻⁸³ ₋₁	50.0	⁻⁹⁰ ₋₁	43.7	⁻⁹⁶ ₋₁	37.0	⁻¹⁰¹ ₋₁	26.8	⁻¹⁰⁴ ₋₁	16.4																	
May 28	76.3	⁻⁶ ₋₄	75.9	⁻¹⁹ ₋₄	74.5	⁻³¹ ₋₄	72.3	⁻⁴³ ₋₄	69.3	⁻⁵⁴ ₋₃	65.5	⁻⁶⁵ ₋₃	60.9	⁻⁷⁴ ₋₃	55.7	⁻⁸³ ₋₃	49.9	⁻⁹⁰ ₋₂	43.6	⁻⁹⁶ ₋₂	36.9	⁻¹⁰¹ ₋₂	26.8	⁻¹⁰⁴ ₋₁	16.3																	
May 29	75.9	⁻⁶ ₋₅	75.4	⁻¹⁹ ₋₅	74.1	⁻³¹ ₋₅	71.9	⁻⁴³ ₋₅	68.9	⁻⁵⁴ ₋₄	65.1	⁻⁶⁴ ₋₄	60.5	⁻⁷⁴ ₋₄	55.4	⁻⁸² ₋₃	49.6	⁻⁸⁹ ₋₃	43.3	⁻⁹⁵ ₋₃	36.6	⁻¹⁰⁰ ₋₂	26.6	⁻¹⁰³ ₋₁	16.2																	
May 30	75.3	⁻⁶ ₋₆	74.8	⁻¹⁹ ₋₅	73.5	⁻³¹ ₋₅	71.3	⁻⁴³ ₋₅	68.3	⁻⁵⁴ ₋₅	64.6	⁻⁶⁴ ₋₅	60.1	⁻⁷³ ₋₄	54.9	⁻⁸¹ ₋₄	49.2	⁻⁸⁹ ₋₃	43.0	⁻⁹⁴ ₋₃	36.3	⁻⁹⁹ ₋₂	26.4	⁻¹⁰² ₋₂	16.1																	
May 31	74.6	⁻⁶ ₋₆	74.2	⁻¹⁹ ₋₆	72.9	⁻³¹ ₋₆	70.7	⁻⁴² ₋₅	67.7	⁻⁵³ ₋₅	64.0	⁻⁶³ ₋₅	59.5	⁻⁷³ ₋₄	54.4	⁻⁸¹ ₋₄	48.8	⁻⁸⁸ ₋₄	42.6	⁻⁹³ ₋₃	36.0	⁻⁹⁸ ₋₂	26.2	⁻¹⁰¹ ₋₂	16.0																	
Jun 1	73.9	⁻⁶ ₋₆	73.5	⁻¹⁸ ₋₆	72.2	⁻³⁰ ₋₆	70.0	⁻⁴² ₋₅	67.1	⁻⁵³ ₋₅	63.4	⁻⁶³ ₋₅	59.0	⁻⁷² ₋₄	53.9	⁻⁸⁰ ₋₄	48.3	⁻⁸⁷ ₋₄	42.2	⁻⁹² ₋₃	35.7	⁻⁹⁷ ₋₂	25.9	⁻¹⁰⁰ ₋₂	15.8																	
Jun 2	73.2	⁻⁶ ₋₆	72.8	⁻¹⁸ ₋₆	71.5	⁻³⁰ ₋₆	69.4	⁻⁴¹ ₋₅	66.5	⁻⁵² ₋₅	62.8	⁻⁶² ₋₅	58.4	⁻⁷¹ ₋₄	53.4	⁻⁷⁹ ₋₄	47.8	⁻⁸⁶ ₋₄	41.8	⁻⁹² ₋₃	35.3	⁻⁹⁶ ₋₂	25.7	⁻⁹⁹ ₋₂	15.7																	
Jun 3	72.5	⁻⁶ ₋₆	72.1	⁻¹⁸ ₋₅	70.8	⁻³⁰ ₋₅	68.7	⁻⁴¹ ₋₅	65.8	⁻⁵² ₋₅	62.2	⁻⁶² ₋₅	57.9	⁻⁷¹ ₋₄	52.9	⁻⁷⁸ ₋₄	47.4	⁻⁸⁵ ₋₃	41.4	⁻⁹¹ ₋₃	35.0	⁻⁹⁵ ₋₂	25.4	⁻⁹⁸ ₋₂	15.5																	
Jun 4	71.8	⁻⁶ ₋₅	71.4	⁻¹⁸ ₋₅	70.2	⁻²⁹ ₋₅	68.1	⁻⁴¹ ₋₅	65.2	⁻⁵¹ ₋₅	61.6	⁻⁶¹ ₋₄	57.3	⁻⁷⁰ ₋₄	52.4	⁻⁷⁸ ₋₄	47.0	⁻⁸⁴ ₋₃	41.0	⁻⁹⁰ ₋₃	34.7	⁻⁹⁵ ₋₂	25.2	⁻⁹⁸ ₋₁	15.4																	
Jun 5	71.2	⁻⁶ ₋₅	70.8	⁻¹⁸ ₋₅	69.5	⁻²⁹ ₋₅	67.5	⁻⁴⁰ ₋₅	64.7	⁻⁵¹ ₋₄	61.1	⁻⁶¹ ₋₄	56.8	⁻⁶⁹ ₋₄	52.0	⁻⁷⁷ ₋₃	46.5	⁻⁸⁴ ₋₃	40.7	⁻⁸⁹ ₋₃	34.4	⁻⁹⁴ ₋₂	25.0	⁻⁹⁷ ₋₁	15.2																	
Jun 6	70.6	⁻⁶ ₋₅	70.2	⁻¹⁸ ₋₄	69.0	⁻²⁹ ₋₄	66.9	⁻⁴⁰ ₋₄	64.1	⁻⁵⁰ ₋₄	60.6	⁻⁶⁰ ₋₄	56.4	⁻⁶⁹ ₋₃	51.5	⁻⁷⁶ ₋₃	46.2	⁻⁸³ ₋₃	40.3	⁻⁸⁸ ₋₂	34.1	⁻⁹³ ₋₂	24.8	⁻⁹⁶ ₋₁	15.1																	
Jun 7	70.1	⁻⁶ ₋₄	69.7	⁻¹⁷ ₋₄	68.4	⁻²⁹ ₋₄	66.4	⁻⁴⁰ ₋₄	63.6	⁻⁵⁰ ₋₄	60.1	⁻⁶⁰ ₋₃	55.9	⁻⁶⁸ ₋₃	51.1	⁻⁷⁶ ₋₃	45.8	⁻⁸² ₋₂	40.0	⁻⁸⁸ ₋₂	33.8	⁻⁹² ₋₂	24.6	⁻⁹⁵ ₋₁	15.0																	
Jun 8	69.6	⁻⁶ ₋₃	69.2	⁻¹⁷ ₋₃	68.0	⁻²⁹ ₋₃	66.0	⁻³⁹ ₋₃	63.2	⁻⁵⁰ ₋₃	59.7	⁻⁵⁹ ₋₃	55.5	⁻⁶⁸ ₋₂	50.8	⁻⁷⁵ ₋₂	45.5	⁻⁸² ₋₂	39.7	⁻⁸⁷ ₋₂	33.6	⁻⁹² ₋₁	24.4	⁻⁹⁵ ₋₁	14.9																	
Jun 9	69.2	⁻⁶ ₋₂	68.8	⁻¹⁷ ₋₂	67.6	⁻²⁸ ₋₂	65.6	⁻³⁹ ₋₂	62.8	⁻⁴⁹ ₋₂	59.4	⁻⁵⁹ ₋₂	55.2	⁻⁶⁸ ₋₂	50.5	⁻⁷⁵ ₋₂	45.2	⁻⁸² ₋₁	39.5	⁻⁸⁷ ₋₁	33.4	⁻⁹¹ ₋₁	24.3	⁻⁹⁴ ₋₁	14.8																	
Jun 10	68.9	⁻⁶ ₋₁	68.5	⁻¹⁷ ₋₁	67.3	⁻²⁸ ₋₁	65.3	⁻³⁹ ₋₁	62.6	⁻⁴⁹ ₋₁	59.1	⁻⁵⁹ ₋₁	55.0	⁻⁶⁷ ₋₁	50.3	⁻⁷⁵ ₋₁	45.1	⁻⁸¹ ₋₁	39.4	⁻⁸⁷ ₋₁	33.3	⁻⁹¹ ₀	24.2	⁻⁹⁴ ₀	14.8																	
Jun 11	68.8	⁻⁶ ₀	68.4	⁻¹⁷ ₀	67.2	⁻²⁸ ₀	65.2	⁻³⁹ ₀	62.5	⁻⁴⁹ ₀	59.0	⁻⁵⁹ ₀	54.9	⁻⁶⁷ ₀	50.2	⁻⁷⁵ ₀	45.0	⁻⁸¹ ₀	39.3	⁻⁸⁷ ₀	33.2	⁻⁹¹ ₀	24.1	⁻⁹⁴ ₀	14.7																	
Jun 12	68.9	⁻⁶ ₂	68.5	⁻¹⁷ ₂	67.2	⁻²⁸ ₂	65.3	⁻³⁹ ₂	62.5	⁻⁴⁹ ₂	59.1	⁻⁵⁹ ₂	55.0	⁻⁶⁷ ₁	50.2	⁻⁷⁵ ₁	45.0	⁻⁸¹ ₁	39.3	⁻⁸⁷ ₁	33.2	⁻⁹¹ ₁	24.1	⁻⁹⁴ ₁	14.7																	
Jun 13	69.1	⁻⁶ ₄	68.7	⁻¹⁷ ₄	67.5	⁻²⁹ ₄	65.5	⁻³⁹ ₃	62.7	⁻⁵⁰ ₃	59.3	⁻⁵⁹ ₃	55.1	⁻⁶⁸ ₃	50.4	⁻⁷⁵ ₃	45.2	⁻⁸² ₂	39.4	⁻⁸⁷ ₂	33.4	⁻⁹² ₂	24.2	⁻⁹⁵ ₁	14.8																	
Jun 14	69.5	⁻⁶ ₅	69.1	⁻¹⁷ ₅	67.9	⁻²⁹ ₅	65.9	⁻⁴⁰ ₅	63.1	⁻⁵⁰ ₅	59.6	⁻⁶⁰ ₄	55.5	⁻⁶⁸ ₄	50.7	⁻⁷⁶ ₄	45.4	⁻⁸² ₃	39.7	⁻⁸⁸ ₃	33.6	⁻⁹² ₂	24.4	⁻⁹⁵ ₂	14.9																	
Jun 15	70.2	⁻⁶ ₇	69.8	⁻¹⁸ ₇	68.5	⁻²⁹ ₇	66.5	⁻⁴⁰ ₇	63.7	⁻⁵¹ ₆	60.2	⁻⁶⁰ ₆	56.0	⁻⁶⁹ ₅	51.2	⁻⁷⁷ ₅	45.9	⁻⁸³ ₄	40.1	⁻⁸⁹ ₄	33.9	⁻⁹³ ₃	24.6	⁻⁹⁶ ₂	15.0																	
Jun 16	71.0	⁻⁶ ₈	70.6	⁻¹⁸ ₈	69.4	⁻²⁹ ₈	67.3	⁻⁴¹ ₈	64.5	⁻⁵¹ ₇	60.9	⁻⁶¹ ₇	56.7	⁻⁷⁰ ₆	51.8	⁻⁷⁸ ₆	46.4	⁻⁸⁴ ₅	40.5	⁻⁹⁰ ₄	34.3	⁻⁹⁵ ₄	24.9	⁻⁹⁸ ₂	15.2																	
Jun 17	72.0	⁻⁶ ₉	71.6	⁻¹⁹ ₉	70.4	⁻³⁰ ₉	68.3	⁻⁴¹ ₉	65.4	⁻⁵² ₈	61.8	⁻⁶² ₈	57.5	⁻⁷¹ ₇	52.6	⁻⁷⁹ ₇	47.1	⁻⁸⁶ ₆	41.1	⁻⁹¹ ₅	34.8	⁻⁹⁶ ₄	25.3	⁻⁹⁹ ₃	15.4																	
Jun 18	73.2	⁻⁶ ₁₀	72.7	⁻¹⁸ ₁₀	71.5	⁻³⁰ ₉	69.3	⁻⁴² ₉	66.4	⁻⁵³ ₉	62.8	⁻⁶³ ₈	58.4	⁻⁷² ₈	53.4	⁻⁸⁰ ₇	47.8	⁻⁸⁷ ₆	41.8	⁻⁹³ ₅	35.3	⁻⁹⁸ ₄	25.7	⁻¹⁰¹ ₃	15.7																	
Jun 19	74.3	⁻⁶ ₉	73.9	⁻¹⁹ ₉	72.6	⁻³¹ ₉	70.5	⁻⁴³ ₉	67.5	⁻⁵⁴ ₈	63.8	⁻⁶⁴ ₈	59.3	⁻⁷³ ₇	54.3	⁻⁸¹ ₇	48.6	⁻⁸⁸ ₆	42.4	⁻⁹⁴ ₅	35.9	⁻⁹⁹ ₄	26.1	⁻¹⁰² ₃	15.9																	
Jun 20	75.5	⁻⁶ ₈	75.0	⁻¹⁹ ₈	73.7	⁻³¹ ₈	71.5	⁻⁴³ ₈	68.5	⁻⁵⁴ ₇	64.8	⁻⁶⁵ ₇	60.2	⁻⁷⁴ ₆	55.1	⁻⁸³ ₆	49.3	⁻⁹⁰ ₅	43.1	⁻⁹⁵ ₄	36.4	⁻¹⁰¹ ₃	26.5	⁻¹⁰⁴ ₂	16.2																	
Jun 21	76.5	⁻⁶ ₆	76.0	⁻¹⁹ ₆	74.7	⁻³² ₆	72.5	⁻⁴⁴ ₅	69.4	⁻⁵⁵ ₅	65.6	⁻⁶⁶ ₅	61.0	⁻⁷⁵ ₅	55.8	⁻⁸⁴ ₄	50.0	⁻⁹¹ ₄	43.6	⁻⁹⁷ ₃	36.9	⁻¹⁰² ₂	26.8	⁻¹⁰⁵ ₂	16.4																	
Jun 22	77.2	⁻⁶ ₃	76.7	⁻¹⁹ ₃	75.4	⁻³² ₃	73.1	⁻⁴⁴ ₃	70.1	⁻⁵⁵ ₃	66.2	⁻⁶⁶ ₃	61.6	⁻⁷⁶ ₂	56.3	⁻⁸⁴ ₂	50.4	⁻⁹¹ ₂	44.1	⁻⁹⁷ ₂	37.3	⁻¹⁰² ₁	27.1	⁻¹⁰⁶ ₁	16.5																	
Jun 23	77.5	⁻⁶ ₀	77.1	⁻¹⁹ ₀	75.7	⁻³² ₀	73.5	⁻⁴⁴ ₀	7																																	

2005

Moon Parallax and Semi-diameter

		Lower Limb																																				
		Altitude degrees																																				
		0		7		14		21		28		35		42		49		56		63		70		80		90												
		'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	
Jul 4	4	69.9	-6	-4	69.5	-17	-4	68.3	-29	-4	66.3	-40	-4	63.5	-50	-3	60.0	-59	-3	55.8	-68	-3	51.0	-76	-3	45.7	-82	-2	39.9	-88	-2	33.8	-92	-2	24.5	-95	-1	15.0
Jul 5	5	69.5	-6	-3	69.1	-17	-3	67.9	-29	-3	65.9	-39	-3	63.1	-50	-3	59.6	-59	-3	55.5	-68	-2	50.7	-75	-2	45.4	-82	-2	39.7	-87	-2	33.6	-92	-1	24.4	-95	-1	14.9
Jul 6	6	69.1	-6	-2	68.7	-17	-2	67.5	-28	-2	65.5	-39	-2	62.8	-49	-2	59.3	-59	-2	55.2	-67	-2	50.4	-75	-2	45.2	-81	-1	39.5	-87	-1	33.4	-91	-1	24.2	-94	-1	14.8
Jul 7	7	68.9	-6	-1	68.4	-17	-1	67.2	-28	-1	65.3	-39	-1	62.5	-49	-1	59.1	-59	-1	55.0	-67	-1	50.2	-75	-1	45.0	-81	-1	39.3	-86	-1	33.2	-91	-1	24.1	-94	0	14.7
Jul 8	8	68.7	-6	0	68.3	-17	0	67.1	-28	0	65.1	-39	0	62.4	-49	0	58.9	-59	0	54.8	-67	0	50.1	-75	0	44.9	-81	0	39.2	-86	0	33.2	-91	0	24.1	-94	0	14.7
Jul 9	9	68.7	-6	1	68.3	-17	1	67.1	-28	1	65.1	-39	1	62.3	-49	1	58.9	-59	1	54.8	-67	1	50.1	-75	1	44.9	-81	1	39.2	-86	0	33.2	-91	0	24.1	-94	0	14.7
Jul 10	10	68.8	-6	2	68.4	-17	2	67.2	-28	2	65.2	-39	2	62.4	-49	2	59.0	-59	2	54.9	-67	2	50.2	-75	2	44.9	-81	1	39.3	-87	1	33.2	-91	1	24.1	-94	1	14.7
Jul 11	11	69.0	-6	4	68.6	-17	4	67.4	-29	4	65.4	-39	3	62.7	-50	3	59.2	-59	3	55.1	-68	3	50.4	-75	3	45.1	-82	2	39.4	-87	2	33.3	-92	2	24.2	-95	1	14.8
Jul 12	12	69.5	-6	5	69.1	-17	5	67.9	-29	5	65.8	-40	5	63.1	-50	5	59.6	-60	4	55.5	-68	4	50.7	-76	4	45.4	-82	3	39.7	-88	3	33.5	-92	2	24.4	-95	1	14.9
Jul 13	13	70.1	-6	7	69.7	-18	7	68.5	-29	6	66.4	-40	6	63.6	-50	6	60.1	-60	6	55.9	-69	5	51.1	-77	5	45.8	-83	4	40.0	-89	4	33.9	-93	3	24.6	-96	2	15.0
Jul 14	14	70.9	-6	8	70.5	-18	8	69.3	-29	8	67.2	-41	8	64.4	-51	7	60.8	-61	7	56.6	-70	6	51.7	-78	6	46.3	-84	5	40.5	-90	4	34.2	-94	3	24.9	-97	2	15.2
Jul 15	15	71.9	-6	9	71.5	-18	9	70.2	-30	9	68.1	-41	9	65.3	-52	8	61.7	-62	8	57.4	-71	7	52.5	-79	6	47.0	-86	6	41.0	-91	5	34.7	-96	4	25.2	-99	3	15.4
Jul 16	16	73.0	-6	10	72.6	-18	10	71.3	-30	10	69.2	-42	9	66.3	-53	9	62.6	-63	8	58.3	-72	8	53.3	-80	7	47.7	-87	6	41.7	-93	5	35.3	-97	4	25.6	-100	3	15.6
Jul 17	17	74.2	-6	10	73.8	-19	10	72.5	-31	10	70.4	-43	9	67.4	-54	9	63.7	-64	8	59.2	-73	8	54.2	-81	7	48.5	-88	6	42.4	-94	5	35.8	-99	4	26.0	-102	3	15.9
Jul 18	18	75.4	-6	9	75.0	-19	9	73.7	-31	9	71.5	-43	9	68.5	-54	8	64.7	-65	8	60.2	-74	7	55.1	-83	6	49.3	-90	6	43.1	-96	5	36.4	-101	4	26.4	-104	3	16.2
Jul 19	19	76.6	-6	7	76.1	-19	7	74.8	-32	7	72.6	-44	7	69.5	-55	6	65.7	-66	6	61.1	-75	6	55.9	-84	5	50.0	-91	4	43.7	-97	4	37.0	-102	3	26.8	-105	2	16.4
Jul 20	20	77.4	-7	5	77.0	-19	4	75.6	-32	4	73.4	-44	4	70.3	-56	4	66.4	-66	4	61.8	-76	3	56.5	-85	3	50.6	-92	3	44.2	-98	2	37.4	-103	2	27.1	-106	1	16.6
Jul 21	21	78.0	-7	1	77.5	-19	1	76.2	-32	1	73.9	-44	1	70.8	-56	1	66.9	-67	1	62.2	-76	1	56.9	-85	1	51.0	-92	1	44.5	-98	1	37.7	-103	0	27.3	-107	0	16.7
Jul 22	22	78.1	-7	-2	77.7	-19	-2	76.3	-32	-2	74.0	-44	-2	70.9	-56	-2	67.0	-67	-2	62.3	-76	-2	57.0	-85	-2	51.1	-92	-1	44.6	-98	-1	37.7	-103	-1	27.4	-106	-1	16.7
Jul 23	23	77.8	-6	-5	77.4	-19	-5	76.0	-32	-5	73.8	-44	-5	70.7	-56	-5	66.8	-66	-5	62.1	-76	-4	56.8	-84	-4	50.9	-92	-3	44.4	-97	-3	37.6	-103	-2	27.3	-106	-2	16.7
Jul 24	24	77.2	-6	-8	76.7	-19	-8	75.4	-32	-8	73.2	-44	-7	70.1	-55	-7	66.2	-65	-6	61.6	-75	-6	56.3	-83	-5	50.4	-91	-5	44.1	-96	-4	37.3	-101	-3	27.1	-105	-2	16.5
Jul 25	25	76.2	-6	-9	75.8	-19	-9	74.5	-31	-9	72.3	-43	-9	69.2	-54	-8	65.4	-65	-8	60.8	-74	-7	55.6	-82	-6	49.8	-89	-6	43.5	-95	-5	36.8	-100	-4	26.7	-103	-3	16.3
Jul 26	26	75.1	-6	-10	74.7	-19	-10	73.4	-31	-9	71.2	-42	-9	68.2	-53	-9	64.5	-64	-8	60.0	-73	-7	54.8	-81	-7	49.1	-88	-6	42.9	-94	-5	36.3	-99	-4	26.3	-102	-3	16.1
Jul 27	27	74.0	-6	-9	73.5	-18	-9	72.2	-30	-9	70.1	-42	-9	67.2	-53	-8	63.5	-63	-8	59.0	-72	-7	54.0	-80	-7	48.3	-87	-6	42.2	-92	-5	35.7	-97	-4	25.9	-100	-3	15.8
Jul 28	28	72.8	-6	-9	72.4	-18	-9	71.1	-30	-8	69.0	-41	-8	66.1	-52	-8	62.5	-62	-7	58.1	-71	-7	53.1	-79	-6	47.6	-85	-5	41.6	-91	-5	35.2	-96	-4	25.5	-99	-2	15.6
Jul 29	29	71.8	-6	-7	71.4	-18	-7	70.1	-29	-7	68.0	-41	-7	65.2	-51	-7	61.6	-61	-6	57.3	-70	-6	52.4	-78	-5	46.9	-84	-5	41.0	-90	-4	34.7	-94	-3	25.2	-97	-2	15.4
Jul 30	30	70.9	-6	-6	70.5	-18	-6	69.2	-29	-6	67.2	-40	-6	64.4	-51	-5	60.8	-60	-5	56.6	-69	-5	51.7	-77	-4	46.3	-83	-4	40.5	-89	-3	34.2	-93	-3	24.9	-96	-2	15.2
Jul 31	31	70.2	-6	-5	69.7	-17	-5	68.5	-29	-5	66.5	-40	-5	63.7	-50	-4	60.2	-60	-4	56.0	-68	-4	51.2	-76	-3	45.9	-83	-3	40.1	-88	-3	33.9	-92	-2	24.6	-95	-1	15.0
Aug 1	1	69.6	-6	-4	69.2	-17	-4	67.9	-29	-3	65.9	-39	-3	63.2	-50	-3	59.7	-59	-3	55.5	-68	-3	50.8	-75	-3	45.5	-82	-2	39.7	-87	-2	33.6	-92	-2	24.4	-95	-1	14.9
Aug 2	2	69.1	-6	-2	68.7	-17	-2	67.5	-28	-2	65.5	-39	-2	62.8	-49	-2	59.3	-59	-2	55.2	-67	-2	50.4	-75	-2	45.2	-81	-2	39.5	-87	-1	33.4	-91	-1	24.2	-94	-1	14.8
Aug 3	3	68.8	-6	-1	68.4	-17	-1	67.2	-28	-1	65.2	-39	-1	62.5	-49	-1	59.1	-59	-1	54.9	-67	-1	50.2	-75	-1	45.0	-81	-1	39.3	-86	-1	33.2	-91	-1	24.1	-94	0	14.7
Aug 4	4	68.7	-6	0	68.3	-17	0	67.1	-28	0	65.1	-39	0	62.4	-49	0	58.9	-59	0	54.8	-67	0	50.1	-75	0	44.9	-81	0	39.2	-86	0	33.2	-91	0	24.1	-94	0	14.7
Aug 5	5	68.6	-6	1	68.2	-17	1	67.0	-28	1	65.0	-39	1	62.3	-49	0	58.9	-59	0	54.8	-67	0	50.1	-75	0	44.8	-81	0	39.2	-86	0	33.1	-91	0	24.1	-94	0	14.7
Aug 6	6	68.7	-6	2	68.3	-17	2	67.1	-28	1	65.1	-39	1	62.4	-49	1	58.9	-59	1	54.8	-67	1	50.1	-75	1	44.9	-81	1	39.2	-86	1	33.2	-91	1	24.1	-94	0	14.7
Aug 7	7	68.9	-6	3	68.5	-17	3	67.3	-28	2	65.3	-39	2	62.5	-49	2	59.1	-59	2	55.0	-67	2	50.3	-75	2	45.0	-82	2	39.3	-87	1	33.3	-91	1	24.1	-94	1	14.7
Aug 8	8	69.2	-6	4	68.8	-17	4	67.6	-29	4	65.6	-39	3	62.8	-50	3	59.3	-59	3	55.2	-68	3	50.5	-75	3	45.2	-82	2	39.5	-87	2	33.4	-92	2	24.3	-95	1	14.8
Aug 9	9	69.6	-6	5	69.2	-17	5	68.0	-29	5	66.0	-40	4	63.2	-50	4	59.7	-60	4	55.6	-68	4	50.8	-76	3	45.5	-83	3	39.7	-88	3	33.6	-92	2	24.4	-95	1	14.9
Aug 10	10	70.2	-6	6	69.8	-18	6	68.6	-29	6	66.5	-40	6	63.7	-51	5	60.2	-60	5	56.0	-69	5	51.2	-77	4	45.9	-83	4	40.1	-89	3	33.9	-93	3	24.6	-96	2	15.0
Aug 11	11	70.9	-6	7	70.5	-18	7	69.3	-29	7	67.2	-41	7	64.4	-51	6	60.8	-61	6	56.6	-70	6	51.8	-78	5	46.4	-84	4	40.5	-90	4	34.2	-94	3	24.9	-97	2	15.2
Aug 12	12	71.8	-6	8	71.4	-18	8	70.1	-30	8	68.1	-41	8	65.2	-52	7	61.6	-62	7	57.3	-71	6	52.4	-79	6	46.9	-85	5	41.0	-91	4	34.7	-96	4	25.2	-99	2	15.4
Aug 13	13	72.8	-6	9	72.4	-18	9	71.1	-30	9	69.0	-42	9	66.1	-53	8	62.																					

2005

Moon Parallax and Semi-diameter

		Upper Limb												
		Altitude degrees												
		0	7	14	21	28	35	42	49	56	63	70	80	90
		' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	'	
Jul 4	4	40.0 ⁻⁶ ₋₄	39.6 ⁻¹⁷ ₋₄	38.4 ⁻²⁹ ₋₄	36.3 ⁻⁴⁰ ₋₄	33.6 ⁻⁵⁰ ₋₃	30.0 ⁻⁵⁹ ₋₃	25.9 ⁻⁶⁸ ₋₃	21.1 ⁻⁷⁶ ₋₃	15.8 ⁻⁸² ₋₂	10.0 ⁻⁸⁸ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-15.0
Jul 5	5	39.7 ⁻⁶ ₋₃	39.3 ⁻¹⁷ ₋₃	38.1 ⁻²⁹ ₋₃	36.1 ⁻³⁹ ₋₃	33.3 ⁻⁵⁰ ₋₃	29.8 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₂	20.9 ⁻⁷⁵ ₋₂	15.7 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₁	-5.4 ⁻⁹⁵ ₋₁	-14.9
Jul 6	6	39.5 ⁻⁶ ₋₂	39.1 ⁻¹⁷ ₋₂	37.9 ⁻²⁸ ₋₂	35.9 ⁻³⁹ ₋₂	33.2 ⁻⁴⁹ ₋₂	29.7 ⁻⁵⁹ ₋₂	25.6 ⁻⁶⁷ ₋₂	20.8 ⁻⁷⁵ ₋₂	15.6 ⁻⁸¹ ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₋₁	-14.8
Jul 7	7	39.4 ⁻⁶ ₋₁	39.0 ⁻¹⁷ ₋₁	37.8 ⁻²⁸ ₋₁	35.8 ⁻³⁹ ₋₁	33.0 ⁻⁴⁹ ₋₁	29.6 ⁻⁵⁹ ₋₁	25.5 ⁻⁶⁷ ₋₁	20.8 ⁻⁷⁵ ₋₁	15.5 ⁻⁸¹ ₋₁	9.8 ⁻⁸⁶ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.3 ⁻⁹⁴ ₀	-14.7
Jul 8	8	39.3 ⁻⁶ ₀	38.9 ⁻¹⁷ ₀	37.7 ⁻²⁸ ₀	35.7 ⁻³⁹ ₀	33.0 ⁻⁴⁹ ₀	29.5 ⁻⁵⁹ ₀	25.4 ⁻⁶⁷ ₀	20.7 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁶ ₀	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Jul 9	9	39.3 ⁻⁶ ₁	38.9 ⁻¹⁷ ₁	37.7 ⁻²⁸ ₁	35.7 ⁻³⁹ ₁	32.9 ⁻⁴⁹ ₁	29.5 ⁻⁵⁹ ₁	25.4 ⁻⁶⁷ ₁	20.7 ⁻⁷⁵ ₁	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁶ ₀	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Jul 10	10	39.3 ⁻⁶ ₂	38.9 ⁻¹⁷ ₂	37.7 ⁻²⁸ ₂	35.7 ⁻³⁹ ₂	33.0 ⁻⁴⁹ ₂	29.5 ⁻⁵⁹ ₂	25.4 ⁻⁶⁷ ₂	20.7 ⁻⁷⁵ ₂	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	-5.3 ⁻⁹⁴ ₁	-14.7
Jul 11	11	39.5 ⁻⁶ ₄	39.1 ⁻¹⁷ ₄	37.9 ⁻²⁹ ₄	35.9 ⁻³⁹ ₃	33.1 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₃	25.5 ⁻⁶⁸ ₃	20.8 ⁻⁷⁵ ₃	15.6 ⁻⁸² ₂	9.8 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.8
Jul 12	12	39.7 ⁻⁶ ₅	39.3 ⁻¹⁷ ₅	38.1 ⁻²⁹ ₅	36.1 ⁻⁴⁰ ₅	33.3 ⁻⁵⁰ ₅	29.8 ⁻⁶⁰ ₄	25.7 ⁻⁶⁸ ₄	20.9 ⁻⁷⁶ ₄	15.7 ⁻⁸² ₃	9.9 ⁻⁸⁸ ₃	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.9
Jul 13	13	40.1 ⁻⁶ ₇	39.7 ⁻¹⁸ ₇	38.4 ⁻²⁹ ₆	36.4 ⁻⁴⁰ ₆	33.6 ⁻⁵⁰ ₆	30.1 ⁻⁶⁰ ₆	25.9 ⁻⁶⁹ ₅	21.1 ⁻⁷⁷ ₅	15.8 ⁻⁸³ ₄	10.0 ⁻⁸⁹ ₄	3.8 ⁻⁹³ ₃	-5.4 ⁻⁹⁶ ₂	-15.0
Jul 14	14	40.5 ⁻⁶ ₈	40.1 ⁻¹⁸ ₈	38.9 ⁻²⁹ ₈	36.8 ⁻⁴¹ ₈	34.0 ⁻⁵¹ ₇	30.5 ⁻⁶¹ ₇	26.2 ⁻⁷⁰ ₆	21.4 ⁻⁷⁸ ₆	16.0 ⁻⁸⁴ ₅	10.1 ⁻⁹⁰ ₄	3.9 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.2
Jul 15	15	41.1 ⁻⁶ ₉	40.7 ⁻¹⁸ ₉	39.4 ⁻³⁰ ₉	37.3 ⁻⁴¹ ₉	34.5 ⁻⁵² ₈	30.9 ⁻⁶² ₈	26.6 ⁻⁷¹ ₇	21.7 ⁻⁷⁹ ₆	16.2 ⁻⁸⁶ ₆	10.3 ⁻⁹¹ ₅	3.9 ⁻⁹⁶ ₄	-5.6 ⁻⁹⁹ ₃	-15.4
Jul 16	16	41.7 ⁻⁶ ₁₀	41.3 ⁻¹⁸ ₁₀	40.0 ⁻³⁰ ₁₀	37.9 ⁻⁴² ₉	35.0 ⁻⁵³ ₉	31.4 ⁻⁶³ ₈	27.0 ⁻⁷² ₈	22.0 ⁻⁸⁰ ₇	16.4 ⁻⁸⁷ ₆	10.4 ⁻⁹³ ₅	4.0 ⁻⁹⁷ ₄	-5.7 ⁻¹⁰⁰ ₃	-15.6
Jul 17	17	42.4 ⁻⁶ ₁₀	42.0 ⁻¹⁹ ₁₀	40.7 ⁻³¹ ₁₀	38.6 ⁻⁴³ ₉	35.6 ⁻⁵⁴ ₉	31.9 ⁻⁶⁴ ₈	27.5 ⁻⁷³ ₈	22.4 ⁻⁸¹ ₇	16.7 ⁻⁸⁸ ₆	10.6 ⁻⁹⁴ ₅	4.1 ⁻⁹⁹ ₄	-5.8 ⁻¹⁰² ₃	-15.9
Jul 18	18	43.1 ⁻⁶ ₉	42.7 ⁻¹⁹ ₉	41.4 ⁻³¹ ₉	39.2 ⁻⁴³ ₉	36.2 ⁻⁵⁴ ₈	32.4 ⁻⁶⁵ ₈	27.9 ⁻⁷⁴ ₇	22.7 ⁻⁸³ ₆	17.0 ⁻⁹⁰ ₆	10.8 ⁻⁹⁶ ₅	4.1 ⁻¹⁰¹ ₄	-5.9 ⁻¹⁰⁴ ₃	-16.2
Jul 19	19	43.8 ⁻⁶ ₇	43.3 ⁻¹⁹ ₇	42.0 ⁻³² ₇	39.8 ⁻⁴⁴ ₇	36.7 ⁻⁵⁵ ₆	32.9 ⁻⁶⁶ ₆	28.3 ⁻⁷⁵ ₆	23.1 ⁻⁸⁴ ₅	17.2 ⁻⁹¹ ₄	10.9 ⁻⁹⁷ ₄	4.2 ⁻¹⁰² ₃	-5.9 ⁻¹⁰⁵ ₂	-16.4
Jul 20	20	44.3 ⁻⁷ ₅	43.8 ⁻¹⁹ ₄	42.5 ⁻³² ₄	40.2 ⁻⁴⁴ ₄	37.1 ⁻⁵⁶ ₄	33.3 ⁻⁶⁶ ₄	28.6 ⁻⁷⁶ ₃	23.3 ⁻⁸⁵ ₃	17.4 ⁻⁹² ₃	11.0 ⁻⁹⁸ ₂	4.2 ⁻¹⁰³ ₂	-6.0 ⁻¹⁰⁶ ₁	-16.6
Jul 21	21	44.6 ⁻⁷ ₁	44.1 ⁻¹⁹ ₁	42.8 ⁻³² ₁	40.5 ⁻⁴⁴ ₁	37.4 ⁻⁵⁶ ₁	33.5 ⁻⁶⁷ ₁	28.8 ⁻⁷⁶ ₁	23.5 ⁻⁸⁵ ₁	17.6 ⁻⁹² ₁	11.1 ⁻⁹⁸ ₁	4.3 ⁻¹⁰³ ₀	-6.1 ⁻¹⁰⁷ ₀	-16.7
Jul 22	22	44.7 ⁻⁷ ₋₂	44.2 ⁻¹⁹ ₋₂	42.8 ⁻³² ₋₂	40.6 ⁻⁴⁴ ₋₂	37.5 ⁻⁵⁶ ₋₂	33.6 ⁻⁶⁷ ₋₂	28.9 ⁻⁷⁶ ₋₂	23.5 ⁻⁸⁵ ₋₂	17.6 ⁻⁹² ₋₁	11.1 ⁻⁹⁸ ₋₁	4.3 ⁻¹⁰³ ₋₁	-6.1 ⁻¹⁰⁶ ₋₁	-16.7
Jul 23	23	44.5 ⁻⁶ ₋₅	44.0 ⁻¹⁹ ₋₅	42.7 ⁻³² ₋₅	40.4 ⁻⁴⁴ ₋₅	37.3 ⁻⁵⁶ ₋₅	33.4 ⁻⁶⁶ ₋₅	28.8 ⁻⁷⁶ ₋₄	23.5 ⁻⁸⁴ ₋₄	17.5 ⁻⁹² ₋₃	11.1 ⁻⁹⁷ ₋₃	4.3 ⁻¹⁰³ ₋₂	-6.0 ⁻¹⁰⁶ ₋₂	-16.7
Jul 24	24	44.1 ⁻⁶ ₋₈	43.7 ⁻¹⁹ ₋₈	42.3 ⁻³² ₋₈	40.1 ⁻⁴⁴ ₋₇	37.0 ⁻⁵⁵ ₋₇	33.2 ⁻⁶⁵ ₋₆	28.5 ⁻⁷⁵ ₋₆	23.3 ⁻⁸³ ₋₅	17.4 ⁻⁹¹ ₋₅	11.0 ⁻⁹⁶ ₋₄	4.2 ⁻¹⁰¹ ₋₃	-6.0 ⁻¹⁰⁵ ₋₂	-16.5
Jul 25	25	43.6 ⁻⁶ ₋₉	43.1 ⁻¹⁹ ₋₉	41.8 ⁻³¹ ₋₉	39.6 ⁻⁴³ ₋₉	36.6 ⁻⁵⁴ ₋₈	32.7 ⁻⁶⁵ ₋₈	28.2 ⁻⁷⁴ ₋₇	23.0 ⁻⁸² ₋₆	17.2 ⁻⁸⁹ ₋₆	10.9 ⁻⁹⁵ ₋₅	4.2 ⁻¹⁰⁰ ₋₄	-5.9 ⁻¹⁰³ ₋₃	-16.3
Jul 26	26	43.0 ⁻⁶ ₋₁₀	42.5 ⁻¹⁹ ₋₁₀	41.2 ⁻³¹ ₋₉	39.0 ⁻⁴² ₋₉	36.0 ⁻⁵³ ₋₉	32.3 ⁻⁶⁴ ₋₈	27.8 ⁻⁷³ ₋₇	22.6 ⁻⁸¹ ₋₇	16.9 ⁻⁸⁸ ₋₆	10.7 ⁻⁹⁴ ₋₅	4.1 ⁻⁹⁹ ₋₄	-5.8 ⁻¹⁰² ₋₃	-16.1
Jul 27	27	42.3 ⁻⁶ ₋₉	41.9 ⁻¹⁸ ₋₉	40.6 ⁻³⁰ ₋₉	38.4 ⁻⁴² ₋₉	35.5 ⁻⁵³ ₋₈	31.8 ⁻⁶³ ₋₈	27.4 ⁻⁷² ₋₇	22.3 ⁻⁸⁰ ₋₇	16.7 ⁻⁸⁷ ₋₆	10.5 ⁻⁹² ₋₅	4.0 ⁻⁹⁷ ₋₄	-5.7 ⁻¹⁰⁰ ₋₃	-15.8
Jul 28	28	41.6 ⁻⁶ ₋₉	41.2 ⁻¹⁸ ₋₉	39.9 ⁻³⁰ ₋₈	37.8 ⁻⁴¹ ₋₈	34.9 ⁻⁵² ₋₈	31.3 ⁻⁶² ₋₇	26.9 ⁻⁷¹ ₋₇	22.0 ⁻⁷⁹ ₋₆	16.4 ⁻⁸⁵ ₋₅	10.4 ⁻⁹¹ ₋₅	4.0 ⁻⁹⁶ ₋₄	-5.7 ⁻⁹⁹ ₋₂	-15.6
Jul 29	29	41.0 ⁻⁶ ₋₇	40.6 ⁻¹⁸ ₋₇	39.4 ⁻²⁹ ₋₇	37.3 ⁻⁴¹ ₋₇	34.4 ⁻⁵¹ ₋₇	30.8 ⁻⁶¹ ₋₆	26.6 ⁻⁷⁰ ₋₆	21.6 ⁻⁷⁸ ₋₅	16.2 ⁻⁸⁴ ₋₅	10.2 ⁻⁹⁰ ₋₄	3.9 ⁻⁹⁴ ₋₃	-5.6 ⁻⁹⁷ ₋₂	-15.4
Jul 30	30	40.5 ⁻⁶ ₋₆	40.1 ⁻¹⁸ ₋₆	38.9 ⁻²⁹ ₋₆	36.8 ⁻⁴⁰ ₋₆	34.0 ⁻⁵¹ ₋₅	30.5 ⁻⁶⁰ ₋₅	26.2 ⁻⁶⁹ ₋₅	21.4 ⁻⁷⁷ ₋₄	16.0 ⁻⁸³ ₋₄	10.1 ⁻⁸⁹ ₋₃	3.9 ⁻⁹³ ₋₃	-5.5 ⁻⁹⁶ ₋₂	-15.2
Jul 31	31	40.1 ⁻⁶ ₋₅	39.7 ⁻¹⁷ ₋₅	38.5 ⁻²⁹ ₋₅	36.4 ⁻⁴⁰ ₋₅	33.7 ⁻⁵⁰ ₋₄	30.1 ⁻⁶⁰ ₋₄	25.9 ⁻⁶⁸ ₋₄	21.1 ⁻⁷⁶ ₋₃	15.8 ⁻⁸³ ₋₃	10.0 ⁻⁸⁸ ₋₃	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-15.0
Aug 1	1	39.8 ⁻⁶ ₋₄	39.4 ⁻¹⁷ ₋₄	38.1 ⁻²⁹ ₋₃	36.1 ⁻³⁹ ₋₃	33.4 ⁻⁵⁰ ₋₃	29.9 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₃	21.0 ⁻⁷⁵ ₋₃	15.7 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-14.9
Aug 2	2	39.5 ⁻⁶ ₋₂	39.1 ⁻¹⁷ ₋₂	37.9 ⁻²⁸ ₋₂	35.9 ⁻³⁹ ₋₂	33.2 ⁻⁴⁹ ₋₂	29.7 ⁻⁵⁹ ₋₂	25.6 ⁻⁶⁷ ₋₂	20.8 ⁻⁷⁵ ₋₂	15.6 ⁻⁸¹ ₋₂	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₋₁	-14.8
Aug 3	3	39.4 ⁻⁶ ₋₁	38.9 ⁻¹⁷ ₋₁	37.7 ⁻²⁸ ₋₁	35.8 ⁻³⁹ ₋₁	33.0 ⁻⁴⁹ ₋₁	29.6 ⁻⁵⁹ ₋₁	25.5 ⁻⁶⁷ ₋₁	20.7 ⁻⁷⁵ ₋₁	15.5 ⁻⁸¹ ₋₁	9.8 ⁻⁸⁶ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.3 ⁻⁹⁴ ₀	-14.7
Aug 4	4	39.3 ⁻⁶ ₀	38.9 ⁻¹⁷ ₀	37.7 ⁻²⁸ ₀	35.7 ⁻³⁹ ₀	32.9 ⁻⁴⁹ ₀	29.5 ⁻⁵⁹ ₀	25.4 ⁻⁶⁷ ₀	20.7 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁶ ₀	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Aug 5	5	39.2 ⁻⁶ ₁	38.8 ⁻¹⁷ ₁	37.6 ⁻²⁸ ₁	35.6 ⁻³⁹ ₁	32.9 ⁻⁴⁹ ₀	29.5 ⁻⁵⁹ ₀	25.4 ⁻⁶⁷ ₀	20.7 ⁻⁷⁵ ₀	15.5 ⁻⁸¹ ₀	9.8 ⁻⁸⁶ ₀	3.7 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Aug 6	6	39.3 ⁻⁶ ₂	38.9 ⁻¹⁷ ₂	37.7 ⁻²⁸ ₁	35.7 ⁻³⁹ ₁	32.9 ⁻⁴⁹ ₁	29.5 ⁻⁵⁹ ₁	25.4 ⁻⁶⁷ ₁	20.7 ⁻⁷⁵ ₁	15.5 ⁻⁸¹ ₁	9.8 ⁻⁸⁶ ₁	3.8 ⁻⁹¹ ₁	-5.3 ⁻⁹⁴ ₀	-14.7
Aug 7	7	39.4 ⁻⁶ ₃	39.0 ⁻¹⁷ ₃	37.8 ⁻²⁸ ₂	35.8 ⁻³⁹ ₂	33.0 ⁻⁴⁹ ₂	29.6 ⁻⁵⁹ ₂	25.5 ⁻⁶⁷ ₂	20.8 ⁻⁷⁵ ₂	15.5 ⁻⁸² ₂	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	-5.3 ⁻⁹⁴ ₁	-14.7
Aug 8	8	39.5 ⁻⁶ ₄	39.1 ⁻¹⁷ ₄	37.9 ⁻²⁹ ₄	35.9 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₃	25.6 ⁻⁶⁸ ₃	20.8 ⁻⁷⁵ ₃	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.8
Aug 9	9	39.8 ⁻⁶ ₅	39.4 ⁻¹⁷ ₅	38.2 ⁻²⁹ ₅	36.2 ⁻⁴⁰ ₄	33.4 ⁻⁵⁰ ₄	29.9 ⁻⁶⁰ ₄	25.7 ⁻⁶⁸ ₄	21.0 ⁻⁷⁶ ₃	15.7 ⁻⁸³ ₃	9.9 ⁻⁸⁸ ₃	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.9
Aug 10	10	40.1 ⁻⁶ ₆	39.7 ⁻¹⁸ ₆	38.5 ⁻²⁹ ₆	36.5 ⁻⁴⁰ ₆	33.7 ⁻⁵¹ ₅	30.2 ⁻⁶⁰ ₅	26.0 ⁻⁶⁹ ₅	21.2 ⁻⁷⁷ ₄	15.8 ⁻⁸³ ₄	10.0 ⁻⁸⁹ ₃	3.8 ⁻⁹³ ₃	-5.5 ⁻⁹⁶ ₂	-15.0
Aug 11	11	40.5 ⁻⁶ ₇	40.1 ⁻¹⁸ ₇	38.9 ⁻²⁹ ₇	36.8 ⁻⁴¹ ₇	34.0 ⁻⁵¹ ₆	30.5 ⁻⁶¹ ₆	26.2 ⁻⁷⁰ ₆	21.4 ⁻⁷⁸ ₅	16.0 ⁻⁸⁴ ₄	10.1 ⁻⁹⁰ ₄	3.9 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.2
Aug 12	12	41.0 ⁻⁶ ₈	40.6 ⁻¹⁸ ₈	39.4 ⁻³⁰ ₈	37.3 ⁻⁴¹ ₈	34.4 ⁻⁵² ₇	30.8 ⁻⁶² ₇	26.6 ⁻⁷¹ ₆	21.6 ⁻⁷⁹ ₆	16.2 ⁻⁸⁵ ₅	10.2 ⁻⁹¹ ₄	3.9 ⁻⁹⁶ ₄	-5.6 ⁻⁹⁹ ₂	-15.4
Aug 13	13	41.6 ⁻⁶ ₉	41.2 ⁻¹⁸ ₉	39.9 ⁻³⁰ ₉	37.8 ⁻⁴² ₉	34.9 ⁻⁵³ ₈	31.3 ⁻⁶³ ₈	26.9 ⁻⁷² ₇	21.9 ⁻⁸⁰ ₆	16.4 ⁻⁸⁷ ₆	10.4 ⁻⁹² ₅	4.0 ⁻⁹⁷ ₄	-5.7 ⁻¹⁰⁰ ₃	-15.6
Aug 14	14	42.3 ⁻⁶ ₉	41.8 ⁻¹⁹ ₉	40.5 ⁻³¹ ₉	38.4 ⁻⁴²									

Lower Limb																																							
Altitude degrees																																							
	0		7		14		21		28		35		42		49		56		63		70		80		90														
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Aug 19	78.1	⁻⁷	₋₁	77.6	⁻¹⁹	₋₁	76.2	⁻³²	₋₁	74.0	⁻⁴⁴	₋₁	70.9	⁻⁵⁶	₋₁	67.0	⁻⁶⁷	₋₁	62.3	⁻⁷⁶	₋₁	57.0	⁻⁸⁵	₋₁	51.0	⁻⁹²	₋₁	44.6	⁻⁹⁸	₀	37.7	⁻¹⁰³	₀	27.4	⁻¹⁰⁶	₀	16.7		
Aug 20	77.9	⁻⁷	₋₄	77.5	⁻¹⁹	₋₄	76.1	⁻³²	₋₄	73.9	⁻⁴⁴	₋₄	70.8	⁻⁵⁶	₋₄	66.9	⁻⁶⁶	₋₄	62.2	⁻⁷⁶	₋₃	56.9	⁻⁸⁴	₋₃	50.9	⁻⁹²	₋₃	44.5	⁻⁹⁸	₋₂	37.6	⁻¹⁰³	₋₂	27.3	⁻¹⁰⁶	₋₁	16.7		
Aug 21	77.4	⁻⁶	₋₇	77.0	⁻¹⁹	₋₇	75.6	⁻³²	₋₇	73.4	⁻⁴⁴	₋₇	70.3	⁻⁵⁵	₋₆	66.4	⁻⁶⁶	₋₆	61.8	⁻⁷⁵	₋₅	56.5	⁻⁸⁴	₋₅	50.6	⁻⁹¹	₋₄	44.2	⁻⁹⁷	₋₄	37.4	⁻¹⁰²	₋₃	27.1	⁻¹⁰⁵	₋₂	16.6		
Aug 22	76.6	⁻⁶	₋₉	76.1	⁻¹⁹	₋₉	74.8	⁻³¹	₋₉	72.6	⁻⁴³	₋₈	69.5	⁻⁵⁴	₋₈	65.7	⁻⁶⁵	₋₈	61.1	⁻⁷⁴	₋₇	55.9	⁻⁸³	₋₆	50.0	⁻⁹⁰	₋₆	43.7	⁻⁹⁶	₋₅	37.0	⁻¹⁰¹	₋₄	26.8	⁻¹⁰⁴	₋₃	16.4		
Aug 23	75.5	⁻⁶	₋₁₀	75.0	⁻¹⁹	₋₁₀	73.7	⁻³¹	₋₁₀	71.5	⁻⁴³	₋₉	68.5	⁻⁵⁴	₋₉	64.7	⁻⁶⁴	₋₈	60.2	⁻⁷³	₋₈	55.1	⁻⁸¹	₋₇	49.3	⁻⁸⁸	₋₆	43.1	⁻⁹⁴	₋₅	36.4	⁻⁹⁹	₋₄	26.5	⁻¹⁰²	₋₃	16.2		
Aug 24	74.3	⁻⁶	₋₁₀	73.8	⁻¹⁸	₋₁₀	72.5	⁻³⁰	₋₁₀	70.4	⁻⁴²	₋₉	67.4	⁻⁵³	₋₉	63.7	⁻⁶³	₋₈	59.3	⁻⁷²	₋₈	54.2	⁻⁸⁰	₋₇	48.5	⁻⁸⁷	₋₆	42.4	⁻⁹³	₋₅	35.9	⁻⁹⁷	₋₄	26.0	⁻¹⁰¹	₋₃	15.9		
Aug 25	73.0	⁻⁶	₋₉	72.6	⁻¹⁸	₋₉	71.3	⁻³⁰	₋₉	69.2	⁻⁴¹	₋₉	66.3	⁻⁵²	₋₈	62.7	⁻⁶²	₋₈	58.3	⁻⁷¹	₋₇	53.3	⁻⁷⁹	₋₇	47.7	⁻⁸⁶	₋₆	41.7	⁻⁹¹	₋₅	35.3	⁻⁹⁶	₋₄	25.6	⁻⁹⁹	₋₃	15.6		
Aug 26	71.9	⁻⁶	₋₈	71.5	⁻¹⁸	₋₈	70.2	⁻²⁹	₋₈	68.2	⁻⁴¹	₋₈	65.3	⁻⁵¹	₋₇	61.7	⁻⁶¹	₋₇	57.4	⁻⁷⁰	₋₆	52.5	⁻⁷⁸	₋₆	47.0	⁻⁸⁴	₋₅	41.1	⁻⁹⁰	₋₄	34.7	⁻⁹⁴	₋₃	25.2	⁻⁹⁷	₋₂	15.4		
Aug 27	70.9	⁻⁶	₋₇	70.5	⁻¹⁸	₋₇	69.3	⁻²⁹	₋₇	67.2	⁻⁴⁰	₋₆	64.4	⁻⁵⁰	₋₆	60.8	⁻⁶⁰	₋₆	56.6	⁻⁶⁹	₋₅	51.7	⁻⁷⁷	₋₅	46.3	⁻⁸³	₋₄	40.5	⁻⁸⁹	₋₄	34.2	⁻⁹³	₋₃	24.9	⁻⁹⁶	₋₂	15.2		
Aug 28	70.1	⁻⁶	₋₅	69.7	⁻¹⁷	₋₅	68.5	⁻²⁹	₋₅	66.4	⁻⁴⁰	₋₅	63.6	⁻⁵⁰	₋₅	60.1	⁻⁶⁰	₋₄	55.9	⁻⁶⁸	₋₄	51.1	⁻⁷⁶	₋₄	45.8	⁻⁸²	₋₃	40.0	⁻⁸⁸	₋₃	33.8	⁻⁹²	₋₂	24.6	⁻⁹⁵	₋₁	15.0		
Aug 29	69.5	⁻⁶	₋₄	69.1	⁻¹⁷	₋₄	67.8	⁻²⁹	₋₃	65.8	⁻³⁹	₋₃	63.1	⁻⁵⁰	₋₃	59.6	⁻⁵⁹	₋₃	55.4	⁻⁶⁸	₋₃	50.7	⁻⁷⁵	₋₂	45.4	⁻⁸²	₋₂	39.7	⁻⁸⁷	₋₂	33.5	⁻⁹²	₋₂	24.4	⁻⁹⁵	₋₁	14.9		
Aug 30	69.0	⁻⁶	₋₂	68.6	⁻¹⁷	₋₂	67.4	⁻²⁸	₋₂	65.4	⁻³⁹	₋₂	62.7	⁻⁴⁹	₋₂	59.2	⁻⁵⁹	₋₂	55.1	⁻⁶⁷	₋₂	50.4	⁻⁷⁵	₋₁	45.1	⁻⁸¹	₋₁	39.4	⁻⁸⁷	₋₁	33.3	⁻⁹¹	₋₁	24.2	⁻⁹⁴	₋₁	14.8		
Aug 31	68.8	⁻⁶	₋₁	68.4	⁻¹⁷	₋₁	67.2	⁻²⁸	₋₁	65.2	⁻³⁹	₋₁	62.5	⁻⁴⁹	₋₁	59.0	⁻⁵⁹	₋₁	54.9	⁻⁶⁷	₋₁	50.2	⁻⁷⁵	₋₁	45.0	⁻⁸¹	₀	39.3	⁻⁸⁶	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7		
Sep 1	68.7	⁻⁶	₀	68.3	⁻¹⁷	₀	67.1	⁻²⁸	₀	65.1	⁻³⁹	₀	62.4	⁻⁴⁹	₀	58.9	⁻⁵⁹	₀	54.8	⁻⁶⁷	₀	50.1	⁻⁷⁵	₀	44.9	⁻⁸¹	₀	39.2	⁻⁸⁶	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7		
Sep 2	68.7	⁻⁶	₁	68.3	⁻¹⁷	₁	67.1	⁻²⁸	₁	65.2	⁻³⁹	₁	62.4	⁻⁴⁹	₁	59.0	⁻⁵⁹	₁	54.9	⁻⁶⁷	₁	50.2	⁻⁷⁵	₁	44.9	⁻⁸¹	₁	39.2	⁻⁸⁷	₁	33.2	⁻⁹¹	₁	24.1	⁻⁹⁴	₀	14.7		
Sep 3	68.9	⁻⁶	₂	68.5	⁻¹⁷	₂	67.3	⁻²⁸	₂	65.3	⁻³⁹	₂	62.6	⁻⁴⁹	₂	59.1	⁻⁵⁹	₂	55.0	⁻⁶⁸	₂	50.3	⁻⁷⁵	₂	45.0	⁻⁸²	₁	39.3	⁻⁸⁷	₁	33.3	⁻⁹¹	₁	24.2	⁻⁹⁴	₁	14.8		
Sep 4	69.2	⁻⁶	₃	68.8	⁻¹⁷	₃	67.6	⁻²⁹	₃	65.6	⁻³⁹	₃	62.8	⁻⁵⁰	₃	59.4	⁻⁵⁹	₃	55.2	⁻⁶⁸	₂	50.5	⁻⁷⁵	₂	45.2	⁻⁸²	₂	39.5	⁻⁸⁷	₂	33.4	⁻⁹²	₁	24.3	⁻⁹⁵	₁	14.8		
Sep 5	69.6	⁻⁶	₄	69.2	⁻¹⁷	₄	68.0	⁻²⁹	₄	65.9	⁻⁴⁰	₄	63.2	⁻⁵⁰	₃	59.7	⁻⁶⁰	₃	55.5	⁻⁶⁸	₃	50.8	⁻⁷⁶	₃	45.5	⁻⁸²	₂	39.7	⁻⁸⁸	₂	33.6	⁻⁹²	₂	24.4	⁻⁹⁵	₁	14.9		
Sep 6	70.0	⁻⁶	₅	69.6	⁻¹⁸	₅	68.4	⁻²⁹	₄	66.4	⁻⁴⁰	₄	63.6	⁻⁵⁰	₄	60.1	⁻⁶⁰	₄	55.9	⁻⁶⁹	₄	51.1	⁻⁷⁶	₃	45.8	⁻⁸³	₃	40.0	⁻⁸⁸	₂	33.8	⁻⁹³	₂	24.6	⁻⁹⁶	₁	15.0		
Sep 7	70.6	⁻⁶	₅	70.2	⁻¹⁸	₅	69.0	⁻²⁹	₅	66.9	⁻⁴⁰	₅	64.1	⁻⁵¹	₅	60.6	⁻⁶¹	₄	56.4	⁻⁶⁹	₄	51.5	⁻⁷⁷	₄	46.1	⁻⁸⁴	₃	40.3	⁻⁸⁹	₃	34.1	⁻⁹⁴	₂	24.8	⁻⁹⁷	₂	15.1		
Sep 8	71.3	⁻⁶	₆	70.8	⁻¹⁸	₆	69.6	⁻³⁰	₆	67.5	⁻⁴¹	₆	64.7	⁻⁵¹	₅	61.1	⁻⁶¹	₅	56.9	⁻⁷⁰	₅	52.0	⁻⁷⁸	₄	46.6	⁻⁸⁵	₄	40.7	⁻⁹⁰	₃	34.4	⁻⁹⁵	₃	25.0	⁻⁹⁸	₂	15.3		
Sep 9	72.0	⁻⁶	₇	71.6	⁻¹⁸	₇	70.3	⁻³⁰	₇	68.2	⁻⁴¹	₆	65.4	⁻⁵²	₆	61.8	⁻⁶²	₆	57.5	⁻⁷¹	₅	52.5	⁻⁷⁹	₅	47.1	⁻⁸⁶	₄	41.1	⁻⁹¹	₄	34.8	⁻⁹⁶	₃	25.2	⁻⁹⁹	₂	15.4		
Sep 10	72.8	⁻⁶	₇	72.4	⁻¹⁸	₇	71.1	⁻³⁰	₇	69.0	⁻⁴²	₇	66.1	⁻⁵²	₇	62.5	⁻⁶³	₆	58.1	⁻⁷²	₆	53.1	⁻⁸⁰	₅	47.6	⁻⁸⁷	₅	41.6	⁻⁹²	₄	35.2	⁻⁹⁷	₃	25.5	⁻¹⁰⁰	₂	15.6		
Sep 11	73.7	⁻⁶	₈	73.3	⁻¹⁹	₈	72.0	⁻³¹	₇	69.9	⁻⁴²	₇	66.9	⁻⁵³	₇	63.2	⁻⁶³	₆	58.8	⁻⁷³	₆	53.8	⁻⁸¹	₅	48.2	⁻⁸⁸	₅	42.1	⁻⁹³	₄	35.6	⁻⁹⁸	₃	25.8	⁻¹⁰¹	₂	15.8		
Sep 12	74.6	⁻⁶	₈	74.2	⁻¹⁹	₇	72.9	⁻³¹	₇	70.7	⁻⁴³	₇	67.8	⁻⁵⁴	₇	64.0	⁻⁶⁴	₆	59.6	⁻⁷³	₆	54.5	⁻⁸²	₅	48.8	⁻⁸⁹	₅	42.6	⁻⁹⁴	₃	36.0	⁻⁹⁹	₃	26.2	⁻¹⁰²	₂	16.0		
Sep 13	75.5	⁻⁶	₇	75.1	⁻¹⁹	₇	73.8	⁻³¹	₇	71.6	⁻⁴³	₆	68.6	⁻⁵⁴	₆	64.8	⁻⁶⁵	₆	60.3	⁻⁷⁴	₅	55.1	⁻⁸³	₅	49.4	⁻⁹⁰	₄	43.1	⁻⁹⁵	₄	36.5	⁻¹⁰⁰	₃	26.5	⁻¹⁰⁴	₂	16.2		
Sep 14	76.4	⁻⁶	₅	75.9	⁻¹⁹	₅	74.6	⁻³²	₅	72.4	⁻⁴⁴	₅	69.3	⁻⁵⁵	₅	65.5	⁻⁶⁵	₄	60.9	⁻⁷⁵	₄	55.7	⁻⁸³	₄	49.9	⁻⁹¹	₃	43.6	⁻⁹⁶	₃	36.9	⁻¹⁰¹	₂	26.8	⁻¹⁰⁵	₁	16.4		
Sep 15	77.0	⁻⁶	₃	76.5	⁻¹⁹	₃	75.2	⁻³²	₃	73.0	⁻⁴⁴	₃	69.9	⁻⁵⁵	₃	66.1	⁻⁶⁶	₃	61.5	⁻⁷⁵	₂	56.2	⁻⁸⁴	₂	50.3	⁻⁹¹	₂	44.0	⁻⁹⁷	₂	37.2	⁻¹⁰²	₁	27.0	⁻¹⁰⁵	₁	16.5		
Sep 16	77.4	⁻⁶	₀	76.9	⁻¹⁹	₀	75.6	⁻³²	₀	73.3	⁻⁴⁴	₀	70.2	⁻⁵⁵	₀	66.4	⁻⁶⁶	₀	61.7	⁻⁷⁶	₀	56.4	⁻⁸⁴	₀	50.6	⁻⁹¹	₀	44.2	⁻⁹⁷	₀	37.4	⁻¹⁰²	₀	27.1	⁻¹⁰⁶	₀	16.6		
Sep 17	77.4	⁻⁶	₋₃	76.9	⁻¹⁹	₋₃	75.6	⁻³²	₋₃	73.3	⁻⁴⁴	₋₃	70.3	⁻⁵⁵	₋₂	66.4	⁻⁶⁶	₋₂	61.8	⁻⁷⁶	₋₂	56.5	⁻⁸⁴	₋₂	50.6	⁻⁹¹	₋₂	44.2	⁻⁹⁷	₋₁	37.4	⁻¹⁰²	₋₁	27.1	⁻¹⁰⁵	₋₁	16.6		
Sep 18	77.1	⁻⁶	₋₆	76.6	⁻¹⁹	₋₅	75.3	⁻³²	₋₅	73.0	⁻⁴⁴	₋₅	70.0	⁻⁵⁵	₋₅	66.1	⁻⁶⁵	₋₅	61.5	⁻⁷⁵	₋₄	56.2	⁻⁸³	₋₄	50.4	⁻⁹¹	₋₃	44.0	⁻⁹⁶	₋₃	37.2	⁻¹⁰²	₋₂	27.0	⁻¹⁰⁵				

2005

Moon Parallax and Semi-diameter

Upper Limb																										
Altitude degrees																										
	0		7		14		21		28		35		42		49		56		63		70		80		90	
	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"	'	"
Aug 19	44.6	⁻⁷ ₋₁	44.2	⁻¹⁹ ₋₁	42.8	⁻³² ₋₁	40.6	⁻⁴⁴ ₋₁	37.4	⁻⁵⁶ ₋₁	33.5	⁻⁶⁷ ₋₁	28.9	⁻⁷⁶ ₋₁	23.5	⁻⁸⁵ ₋₁	17.6	⁻⁹² ₋₁	11.1	⁻⁹⁸ ₀	4.3	⁻¹⁰³ ₀	-6.1	⁻¹⁰⁶ ₀	-16.7	
Aug 20	44.6	⁻⁷ ₋₄	44.1	⁻¹⁹ ₋₄	42.7	⁻³² ₋₄	40.5	⁻⁴⁴ ₋₄	37.4	⁻⁵⁶ ₋₄	33.5	⁻⁶⁶ ₋₄	28.8	⁻⁷⁶ ₋₃	23.5	⁻⁸⁴ ₋₃	17.6	⁻⁹² ₋₃	11.1	⁻⁹⁸ ₋₂	4.3	⁻¹⁰³ ₋₂	-6.1	⁻¹⁰⁶ ₋₁	-16.7	
Aug 21	44.3	⁻⁶ ₋₇	43.8	⁻¹⁹ ₋₇	42.5	⁻³² ₋₇	40.2	⁻⁴⁴ ₋₇	37.1	⁻⁵⁵ ₋₆	33.3	⁻⁶⁶ ₋₆	28.6	⁻⁷⁵ ₋₅	23.3	⁻⁸⁴ ₋₅	17.4	⁻⁹¹ ₋₄	11.0	⁻⁹⁷ ₋₄	4.2	⁻¹⁰² ₋₃	-6.0	⁻¹⁰⁵ ₋₂	-16.6	
Aug 22	43.8	⁻⁶ ₋₉	43.3	⁻¹⁹ ₋₉	42.0	⁻³¹ ₋₉	39.8	⁻⁴³ ₋₈	36.7	⁻⁵⁴ ₋₈	32.9	⁻⁶⁵ ₋₈	28.3	⁻⁷⁴ ₋₇	23.1	⁻⁸³ ₋₆	17.2	⁻⁹⁰ ₋₆	10.9	⁻⁹⁶ ₋₅	4.2	⁻¹⁰¹ ₋₄	-5.9	⁻¹⁰⁴ ₋₃	-16.4	
Aug 23	43.1	⁻⁶ ₋₁₀	42.7	⁻¹⁹ ₋₁₀	41.4	⁻³¹ ₋₁₀	39.2	⁻⁴³ ₋₉	36.2	⁻⁵⁴ ₋₉	32.4	⁻⁶⁴ ₋₈	27.9	⁻⁷³ ₋₈	22.7	⁻⁸¹ ₋₇	17.0	⁻⁸⁸ ₋₆	10.8	⁻⁹⁴ ₋₅	4.1	⁻⁹⁹ ₋₄	-5.9	⁻¹⁰² ₋₃	-16.2	
Aug 24	42.5	⁻⁶ ₋₁₀	42.0	⁻¹⁸ ₋₁₀	40.7	⁻³⁰ ₋₁₀	38.6	⁻⁴² ₋₉	35.6	⁻⁵³ ₋₉	31.9	⁻⁶³ ₋₈	27.5	⁻⁷² ₋₈	22.4	⁻⁸⁰ ₋₇	16.7	⁻⁸⁷ ₋₆	10.6	⁻⁹³ ₋₅	4.1	⁻⁹⁷ ₋₄	-5.8	⁻¹⁰¹ ₋₃	-15.9	
Aug 25	41.8	⁻⁶ ₋₉	41.3	⁻¹⁸ ₋₉	40.1	⁻³⁰ ₋₉	37.9	⁻⁴¹ ₋₉	35.0	⁻⁵² ₋₈	31.4	⁻⁶² ₋₈	27.0	⁻⁷¹ ₋₇	22.0	⁻⁷⁹ ₋₇	16.5	⁻⁸⁶ ₋₆	10.4	⁻⁹¹ ₋₅	4.0	⁻⁹⁶ ₋₄	-5.7	⁻⁹⁹ ₋₃	-15.6	
Aug 26	41.1	⁻⁶ ₋₈	40.7	⁻¹⁸ ₋₈	39.4	⁻²⁹ ₋₈	37.4	⁻⁴¹ ₋₈	34.5	⁻⁵¹ ₋₇	30.9	⁻⁶¹ ₋₇	26.6	⁻⁷⁰ ₋₆	21.7	⁻⁷⁸ ₋₆	16.2	⁻⁸⁴ ₋₅	10.3	⁻⁹⁰ ₋₄	3.9	⁻⁹⁴ ₋₃	-5.6	⁻⁹⁷ ₋₂	-15.4	
Aug 27	40.5	⁻⁶ ₋₇	40.1	⁻¹⁸ ₋₇	38.9	⁻²⁹ ₋₇	36.8	⁻⁴⁰ ₋₆	34.0	⁻⁵⁰ ₋₆	30.5	⁻⁶⁰ ₋₆	26.2	⁻⁶⁹ ₋₅	21.4	⁻⁷⁷ ₋₅	16.0	⁻⁸³ ₋₄	10.1	⁻⁸⁹ ₋₄	3.9	⁻⁹³ ₋₃	-5.5	⁻⁹⁶ ₋₂	-15.2	
Aug 28	40.1	⁻⁶ ₋₅	39.7	⁻¹⁷ ₋₅	38.4	⁻²⁹ ₋₅	36.4	⁻⁴⁰ ₋₅	33.6	⁻⁵⁰ ₋₅	30.1	⁻⁶⁰ ₋₄	25.9	⁻⁶⁸ ₋₄	21.1	⁻⁷⁶ ₋₄	15.8	⁻⁸² ₋₃	10.0	⁻⁸⁸ ₋₃	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-15.0	
Aug 29	39.7	⁻⁶ ₋₄	39.3	⁻¹⁷ ₋₄	38.1	⁻²⁹ ₋₃	36.1	⁻³⁹ ₋₃	33.3	⁻⁵⁰ ₋₃	29.8	⁻⁵⁹ ₋₃	25.7	⁻⁶⁸ ₋₃	20.9	⁻⁷⁵ ₋₂	15.7	⁻⁸² ₋₂	9.9	⁻⁸⁷ ₋₂	3.8	⁻⁹² ₋₂	-5.4	⁻⁹⁵ ₋₁	-14.9	
Aug 30	39.5	⁻⁶ ₋₂	39.1	⁻¹⁷ ₋₂	37.9	⁻²⁸ ₋₂	35.9	⁻³⁹ ₋₂	33.1	⁻⁴⁹ ₋₂	29.7	⁻⁵⁹ ₋₂	25.5	⁻⁶⁷ ₋₂	20.8	⁻⁷⁵ ₋₁	15.6	⁻⁸¹ ₋₁	9.8	⁻⁸⁷ ₋₁	3.8	⁻⁹¹ ₋₁	-5.4	⁻⁹⁴ ₋₁	-14.8	
Aug 31	39.3	⁻⁶ ₋₁	38.9	⁻¹⁷ ₋₁	37.7	⁻²⁸ ₋₁	35.7	⁻³⁹ ₋₁	33.0	⁻⁴⁹ ₋₁	29.5	⁻⁵⁹ ₋₁	25.4	⁻⁶⁷ ₋₁	20.7	⁻⁷⁵ ₋₁	15.5	⁻⁸¹ ₀	9.8	⁻⁸⁶ ₀	3.8	⁻⁹¹ ₀	-5.3	⁻⁹⁴ ₀	-14.7	
Sep 1	39.3	⁻⁶ ₀	38.9	⁻¹⁷ ₀	37.7	⁻²⁸ ₀	35.7	⁻³⁹ ₀	33.0	⁻⁴⁹ ₀	29.5	⁻⁵⁹ ₀	25.4	⁻⁶⁷ ₀	20.7	⁻⁷⁵ ₀	15.5	⁻⁸¹ ₀	9.8	⁻⁸⁶ ₀	3.8	⁻⁹¹ ₀	-5.3	⁻⁹⁴ ₀	-14.7	
Sep 2	39.3	⁻⁶ ₁	38.9	⁻¹⁷ ₁	37.7	⁻²⁸ ₁	35.7	⁻³⁹ ₁	33.0	⁻⁴⁹ ₁	29.5	⁻⁵⁹ ₁	25.4	⁻⁶⁷ ₁	20.7	⁻⁷⁵ ₁	15.5	⁻⁸¹ ₁	9.8	⁻⁸⁷ ₁	3.8	⁻⁹¹ ₁	-5.3	⁻⁹⁴ ₀	-14.7	
Sep 3	39.4	⁻⁶ ₂	39.0	⁻¹⁷ ₂	37.8	⁻²⁸ ₂	35.8	⁻³⁹ ₂	33.1	⁻⁴⁹ ₂	29.6	⁻⁵⁹ ₂	25.5	⁻⁶⁸ ₂	20.8	⁻⁷⁵ ₂	15.5	⁻⁸² ₁	9.8	⁻⁸⁷ ₁	3.8	⁻⁹¹ ₁	-5.4	⁻⁹⁴ ₁	-14.8	
Sep 4	39.6	⁻⁶ ₃	39.2	⁻¹⁷ ₃	37.9	⁻²⁹ ₃	36.0	⁻³⁹ ₃	33.2	⁻⁵⁰ ₃	29.7	⁻⁵⁹ ₃	25.6	⁻⁶⁸ ₂	20.9	⁻⁷⁵ ₂	15.6	⁻⁸² ₂	9.9	⁻⁸⁷ ₂	3.8	⁻⁹² ₁	-5.4	⁻⁹⁵ ₁	-14.8	
Sep 5	39.8	⁻⁶ ₄	39.4	⁻¹⁷ ₄	38.2	⁻²⁹ ₄	36.1	⁻⁴⁰ ₄	33.4	⁻⁵⁰ ₃	29.9	⁻⁶⁰ ₃	25.7	⁻⁶⁸ ₃	21.0	⁻⁷⁶ ₃	15.7	⁻⁸² ₂	9.9	⁻⁸⁸ ₂	3.8	⁻⁹² ₂	-5.4	⁻⁹⁵ ₁	-14.9	
Sep 6	40.0	⁻⁶ ₅	39.6	⁻¹⁸ ₅	38.4	⁻²⁹ ₄	36.4	⁻⁴⁰ ₄	33.6	⁻⁵⁰ ₄	30.1	⁻⁶⁰ ₄	25.9	⁻⁶⁹ ₄	21.1	⁻⁷⁶ ₃	15.8	⁻⁸³ ₃	10.0	⁻⁸⁸ ₂	3.8	⁻⁹³ ₂	-5.4	⁻⁹⁶ ₁	-15.0	
Sep 7	40.4	⁻⁶ ₅	40.0	⁻¹⁸ ₅	38.7	⁻²⁹ ₅	36.7	⁻⁴⁰ ₅	33.9	⁻⁵¹ ₅	30.3	⁻⁶¹ ₄	26.1	⁻⁶⁹ ₄	21.3	⁻⁷⁷ ₄	15.9	⁻⁸⁴ ₃	10.1	⁻⁸⁹ ₃	3.9	⁻⁹⁴ ₂	-5.5	⁻⁹⁷ ₂	-15.1	
Sep 8	40.7	⁻⁶ ₆	40.3	⁻¹⁸ ₆	39.1	⁻³⁰ ₆	37.0	⁻⁴¹ ₆	34.2	⁻⁵¹ ₅	30.6	⁻⁶¹ ₅	26.4	⁻⁷⁰ ₅	21.5	⁻⁷⁸ ₄	16.1	⁻⁸⁵ ₄	10.2	⁻⁹⁰ ₃	3.9	⁻⁹⁵ ₃	-5.5	⁻⁹⁸ ₂	-15.3	
Sep 9	41.2	⁻⁶ ₇	40.7	⁻¹⁸ ₇	39.5	⁻³⁰ ₇	37.4	⁻⁴¹ ₆	34.5	⁻⁵² ₆	30.9	⁻⁶² ₆	26.6	⁻⁷¹ ₅	21.7	⁻⁷⁹ ₅	16.2	⁻⁸⁶ ₄	10.3	⁻⁹¹ ₄	3.9	⁻⁹⁶ ₃	-5.6	⁻⁹⁹ ₂	-15.4	
Sep 10	41.6	⁻⁶ ₇	41.2	⁻¹⁸ ₇	39.9	⁻³⁰ ₇	37.8	⁻⁴² ₇	34.9	⁻⁵² ₇	31.3	⁻⁶³ ₆	26.9	⁻⁷² ₆	21.9	⁻⁸⁰ ₅	16.4	⁻⁸⁷ ₅	10.4	⁻⁹² ₄	4.0	⁻⁹⁷ ₃	-5.7	⁻¹⁰⁰ ₂	-15.6	
Sep 11	42.1	⁻⁶ ₈	41.7	⁻¹⁹ ₈	40.4	⁻³¹ ₇	38.3	⁻⁴² ₇	35.4	⁻⁵³ ₇	31.7	⁻⁶³ ₆	27.3	⁻⁷³ ₆	22.2	⁻⁸¹ ₅	16.6	⁻⁸⁸ ₅	10.5	⁻⁹³ ₄	4.0	⁻⁹⁸ ₃	-5.7	⁻¹⁰¹ ₂	-15.8	
Sep 12	42.7	⁻⁶ ₈	42.2	⁻¹⁹ ₇	40.9	⁻³¹ ₇	38.8	⁻⁴³ ₇	35.8	⁻⁵⁴ ₇	32.1	⁻⁶⁴ ₆	27.6	⁻⁷³ ₆	22.5	⁻⁸² ₅	16.8	⁻⁸⁹ ₅	10.6	⁻⁹⁴ ₄	4.1	⁻⁹⁹ ₃	-5.8	⁻¹⁰² ₂	-16.0	
Sep 13	43.2	⁻⁶ ₇	42.7	⁻¹⁹ ₇	41.4	⁻³¹ ₇	39.2	⁻⁴³ ₆	36.2	⁻⁵⁴ ₆	32.5	⁻⁶⁵ ₆	27.9	⁻⁷⁴ ₅	22.8	⁻⁸³ ₅	17.0	⁻⁹⁰ ₄	10.8	⁻⁹⁵ ₄	4.1	⁻¹⁰⁰ ₃	-5.9	⁻¹⁰⁴ ₂	-16.2	
Sep 14	43.7	⁻⁶ ₅	43.2	⁻¹⁹ ₅	41.9	⁻³² ₅	39.7	⁻⁴⁴ ₅	36.6	⁻⁵⁵ ₅	32.8	⁻⁶⁵ ₄	28.2	⁻⁷⁵ ₄	23.0	⁻⁸³ ₄	17.2	⁻⁹¹ ₃	10.9	⁻⁹⁶ ₃	4.2	⁻¹⁰¹ ₂	-5.9	⁻¹⁰⁵ ₁	-16.4	
Sep 15	44.0	⁻⁶ ₃	43.6	⁻¹⁹ ₃	42.2	⁻³² ₃	40.0	⁻⁴⁴ ₃	36.9	⁻⁵⁵ ₃	33.1	⁻⁶⁶ ₃	28.5	⁻⁷⁵ ₂	23.2	⁻⁸⁴ ₂	17.3	⁻⁹¹ ₂	11.0	⁻⁹⁷ ₂	4.2	⁻¹⁰² ₁	-6.0	⁻¹⁰⁵ ₁	-16.5	
Sep 16	44.2	⁻⁶ ₀	43.8	⁻¹⁹ ₀	42.4	⁻³² ₀	40.2	⁻⁴⁴ ₀	37.1	⁻⁵⁵ ₀	33.2	⁻⁶⁶ ₀	28.6	⁻⁷⁶ ₀	23.3	⁻⁸⁴ ₀	17.4	⁻⁹¹ ₀	11.0	⁻⁹⁷ ₀	4.2	⁻¹⁰² ₀	-6.0	⁻¹⁰⁶ ₀	-16.6	
Sep 17	44.2	⁻⁶ ₋₃	43.8	⁻¹⁹ ₋₃	42.4	⁻³² ₋₃	40.2	⁻⁴⁴ ₋₃	37.1	⁻⁵⁵ ₋₂	33.2	⁻⁶⁶ ₋₂	28.6	⁻⁷⁶ ₋₂	23.3	⁻⁸⁴ ₋₂	17.4	⁻⁹¹ ₋₂	11.0	⁻⁹⁷ ₋₁	4.2	⁻¹⁰² ₋₁	-6.0	⁻¹⁰⁵ ₋₁	-16.6	
Sep 18	44.1	⁻⁶ ₋₆	43.6	⁻¹⁹ ₋₅	42.3	⁻³² ₋₅	40.0	⁻⁴⁴ ₋₅	37.0	⁻⁵⁵ ₋₅	33.1	⁻⁶⁵ ₋₅	28.5	⁻⁷⁵ ₋₄	23.2	⁻⁸³ ₋₄	17.4	⁻⁹¹ ₋₃	11.0	⁻⁹⁶ ₋₃	4.2	⁻¹⁰² ₋₂	-6.0	⁻¹⁰⁵ ₋₂	-16.5	
Sep 19	43.7	⁻⁶ ₋₈	43.2	⁻¹⁹ ₋₈	41.9	⁻³¹ ₋₈	39.7	⁻⁴³ ₋₇	36.6	⁻⁵⁴ ₋₇	32.8	⁻⁶⁵ ₋₆	28.3	⁻⁷⁴ ₋₆	23.0	⁻⁸³ ₋₅	17.2	⁻⁹⁰ ₋₅	10.9	⁻⁹⁵ ₋₄	4.2	⁻¹⁰⁰ ₋₃	-5.9	⁻¹⁰⁴ ₋₂	-16.4	
Sep 20	43.1	⁻⁶ ₋₉	42.7	⁻¹⁹ ₋₉	41.4	⁻³¹ ₋₉	39.2	⁻⁴³ ₋₉	36.2	⁻⁵⁴ ₋₈	32.4	⁻⁶⁴ ₋₈	27.9	⁻⁷³ ₋₇	22.7	⁻⁸¹ ₋₆	17.0	⁻⁸⁸ ₋₆	10.8	⁻⁹⁴ ₋₅	4.1	⁻⁹⁹ ₋₄	-5.9	⁻¹⁰² ₋₃	-16.2	
Sep 21	42.5	⁻⁶ ₋₁₀	42.1	⁻¹⁸ ₋₁₀	40.8	⁻³⁰ ₋₉	38.6	⁻⁴² ₋₉	35.7	⁻⁵³ ₋₉	31.9	⁻⁶³ ₋₈	27.5	⁻⁷² ₋₇	22.4	⁻⁸⁰ ₋₇	16.7	⁻⁸⁷ ₋₆	10.6	⁻⁹³ ₋₅	4.1	⁻⁹⁸ ₋₄	-5.8	⁻¹⁰¹ ₋₃	-15.9	
Sep 22	41.8	⁻⁶ ₋₉	41.4	⁻¹⁸ ₋₉	40.1	⁻³⁰ ₋₉	38.0	⁻⁴¹ ₋₉	35.1	⁻⁵² ₋₈	31.4	⁻⁶² ₋₈	27.1	⁻⁷¹ ₋₇	22.1	⁻⁷⁹ ₋₇	16.5	⁻⁸⁶ ₋₆	10.4	⁻⁹¹ ₋₅	4.0	⁻⁹⁶ ₋₄	-5.7	⁻⁹⁹ ₋₃	-15.7	
Sep 23	41.2	⁻⁶ ₋₈	40.8	⁻¹⁸ ₋₈	39.5	⁻²⁹ ₋₈	37.4	⁻⁴¹ ₋₈	34.6	⁻⁵¹ ₋₇	31.0	⁻⁶¹ ₋₇	26.6	⁻⁷⁰ ₋₆	21.7	⁻⁷⁸ ₋₆	16.2	⁻⁸⁵ ₋₅	10.3	⁻⁹⁰ <						

2005

Moon Parallax and Semi-diameter

		Lower Limb																																						
		Altitude degrees																																						
		0		7		14		21		28		35		42		49		56		63		70		80		90														
		'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Oct 4	4	70.8	-6	5	70.4	-18	5	69.1	-29	5	67.1	-40	5	64.3	-51	4	60.7	-61	4	56.5	-69	4	51.6	-77	3	46.3	-84	3	40.4	-89	3	34.2	-94	2	24.8	-97	1	15.2		
Oct 5	5	71.4	-6	5	71.0	-18	5	69.7	-30	5	67.6	-41	5	64.8	-51	5	61.2	-61	4	57.0	-70	4	52.1	-78	4	46.6	-85	3	40.7	-90	3	34.5	-95	2	25.0	-98	1	15.3		
Oct 6	6	72.0	-6	5	71.6	-18	5	70.3	-30	5	68.2	-41	5	65.4	-52	5	61.8	-62	4	57.5	-71	4	52.5	-79	4	47.1	-85	3	41.1	-91	3	34.8	-96	2	25.2	-99	1	15.4		
Oct 7	7	72.6	-6	5	72.2	-18	5	70.9	-30	5	68.8	-41	5	65.9	-52	5	62.3	-62	4	58.0	-71	4	53.0	-79	4	47.5	-86	3	41.5	-92	3	35.1	-97	2	25.5	-100	2	15.6		
Oct 8	8	73.3	-6	5	72.8	-18	5	71.6	-30	5	69.4	-42	5	66.5	-53	5	62.9	-63	4	58.5	-72	4	53.5	-80	4	47.9	-87	3	41.8	-92	3	35.4	-97	2	25.7	-100	2	15.7		
Oct 9	9	73.9	-6	5	73.5	-19	5	72.2	-31	5	70.0	-42	5	67.1	-53	5	63.4	-63	4	59.0	-73	4	53.9	-81	4	48.3	-88	3	42.2	-93	3	35.7	-98	2	25.9	-101	1	15.8		
Oct 10	10	74.5	-6	5	74.1	-19	5	72.8	-31	5	70.6	-43	5	67.7	-54	4	63.9	-64	4	59.5	-73	4	54.4	-81	3	48.7	-88	3	42.6	-94	3	36.0	-99	2	26.1	-102	1	16.0		
Oct 11	11	75.1	-6	4	74.7	-19	4	73.4	-31	4	71.2	-43	4	68.2	-54	4	64.5	-64	4	60.0	-74	3	54.8	-82	3	49.1	-89	3	42.9	-95	2	36.3	-100	2	26.3	-103	1	16.1		
Oct 12	12	75.7	-6	3	75.2	-19	3	73.9	-31	3	71.7	-43	3	68.7	-54	3	64.9	-65	3	60.4	-74	3	55.2	-82	2	49.4	-90	2	43.2	-95	2	36.5	-100	1	26.5	-104	1	16.2		
Oct 13	13	76.1	-6	2	75.6	-19	2	74.3	-31	2	72.1	-43	2	69.1	-55	2	65.3	-65	2	60.7	-74	2	55.5	-83	1	49.7	-90	1	43.4	-96	1	36.7	-101	1	26.7	-104	1	16.3		
Oct 14	14	76.3	-6	0	75.9	-19	0	74.5	-31	0	72.3	-43	0	69.3	-55	0	65.5	-65	0	60.9	-75	0	55.7	-83	0	49.9	-90	0	43.6	-96	0	36.8	-101	0	26.8	-104	0	16.3		
Oct 15	15	76.3	-6	-2	75.9	-19	-2	74.5	-31	-2	72.3	-43	-2	69.3	-55	-2	65.5	-65	-2	60.9	-75	-1	55.7	-83	-1	49.9	-90	-1	43.6	-96	-1	36.9	-101	-1	26.8	-104	-1	16.3		
Oct 16	16	76.1	-6	-4	75.6	-19	-4	74.3	-31	-4	72.1	-43	-4	69.1	-54	-4	65.3	-65	-3	60.7	-74	-3	55.5	-82	-3	49.7	-90	-3	43.4	-95	-2	36.7	-100	-2	26.7	-103	-1	16.3		
Oct 17	17	75.6	-6	-6	75.2	-19	-6	73.8	-31	-6	71.7	-43	-6	68.6	-54	-5	64.9	-64	-5	60.3	-74	-5	55.2	-82	-4	49.4	-89	-4	43.2	-95	-3	36.5	-100	-3	26.5	-103	-2	16.2		
Oct 18	18	74.9	-6	-7	74.4	-19	-7	73.1	-31	-7	71.0	-42	-7	68.0	-53	-7	64.2	-64	-6	59.8	-73	-6	54.6	-81	-5	48.9	-88	-5	42.7	-94	-4	36.2	-98	-3	26.3	-102	-2	16.0		
Oct 19	19	74.0	-6	-8	73.5	-18	-8	72.3	-30	-8	70.1	-42	-8	67.2	-53	-7	63.5	-63	-7	59.0	-72	-6	54.0	-80	-6	48.4	-87	-5	42.2	-92	-4	35.7	-97	-3	25.9	-100	-2	15.8		
Oct 20	20	73.0	-6	-8	72.6	-18	-8	71.3	-30	-8	69.2	-41	-8	66.3	-52	-7	62.6	-62	-7	58.3	-71	-6	53.3	-79	-6	47.7	-86	-5	41.7	-91	-4	35.2	-96	-3	25.6	-99	-2	15.6		
Oct 21	21	72.0	-6	-8	71.6	-18	-8	70.3	-29	-7	68.2	-41	-7	65.4	-51	-7	61.8	-61	-6	57.5	-70	-6	52.5	-78	-5	47.1	-84	-5	41.1	-90	-4	34.8	-95	-3	25.2	-98	-2	15.4		
Oct 22	22	71.1	-6	-7	70.6	-18	-7	69.4	-29	-6	67.3	-40	-6	64.5	-51	-6	61.0	-60	-6	56.7	-69	-5	51.8	-77	-5	46.4	-83	-4	40.6	-89	-4	34.3	-93	-3	24.9	-96	-2	15.2		
Oct 23	23	70.3	-6	-5	69.8	-17	-5	68.6	-29	-5	66.6	-40	-5	63.8	-50	-5	60.3	-60	-4	56.1	-68	-4	51.3	-76	-4	45.9	-83	-3	40.1	-88	-3	33.9	-93	-2	24.6	-95	-1	15.0		
Oct 24	24	69.6	-6	-3	69.2	-17	-3	68.0	-29	-3	66.0	-39	-3	63.2	-50	-3	59.7	-59	-3	55.6	-68	-3	50.8	-75	-2	45.5	-82	-2	39.7	-87	-2	33.6	-92	-1	24.4	-95	-1	14.9		
Oct 25	25	69.2	-6	-2	68.8	-17	-2	67.6	-28	-2	65.6	-39	-2	62.8	-49	-1	59.4	-59	-1	55.2	-68	-1	50.5	-75	-1	45.2	-82	-1	39.5	-87	-1	33.4	-91	-1	24.3	-94	0	14.8		
Oct 26	26	69.0	-6	0	68.6	-17	0	67.4	-28	0	65.4	-39	0	62.7	-49	0	59.2	-59	0	55.1	-67	0	50.4	-75	0	45.1	-82	0	39.4	-87	0	33.3	-91	0	24.2	-94	0	14.8		
Oct 27	27	69.0	-6	2	68.6	-17	2	67.4	-29	2	65.4	-39	2	62.7	-50	2	59.2	-59	2	55.1	-68	1	50.4	-75	1	45.1	-82	1	39.4	-87	1	33.3	-91	1	24.2	-94	1	14.8		
Oct 28	28	69.3	-6	3	68.8	-17	3	67.6	-29	3	65.6	-39	3	62.9	-50	3	59.4	-59	3	55.3	-68	3	50.5	-76	2	45.3	-82	2	39.5	-87	2	33.4	-92	1	24.3	-95	1	14.8		
Oct 29	29	69.7	-6	5	69.3	-17	5	68.0	-29	4	66.0	-40	4	63.3	-50	4	59.8	-60	4	55.6	-68	4	50.8	-76	3	45.5	-83	3	39.8	-88	2	33.6	-93	2	24.4	-95	1	14.9		
Oct 30	30	70.2	-6	6	69.8	-18	5	68.6	-29	5	66.6	-40	5	63.8	-51	5	60.2	-60	5	56.1	-69	4	51.2	-77	4	45.9	-83	3	40.1	-89	3	33.9	-93	2	24.6	-96	2	15.0		
Oct 31	31	70.9	-6	6	70.5	-18	6	69.2	-29	6	67.2	-41	6	64.4	-51	5	60.8	-61	5	56.6	-70	5	51.7	-77	4	46.3	-84	4	40.5	-90	3	34.2	-94	3	24.9	-97	2	15.2		
Nov 1	1	71.6	-6	6	71.2	-18	6	69.9	-30	6	67.9	-41	6	65.0	-52	5	61.4	-61	5	57.2	-70	5	52.3	-78	4	46.8	-85	4	40.9	-90	3	34.6	-95	3	25.1	-98	2	15.3		
Nov 2	2	72.3	-6	6	71.9	-18	6	70.7	-30	6	68.6	-41	5	65.7	-52	5	62.1	-62	5	57.7	-71	4	52.8	-79	4	47.3	-86	4	41.3	-91	3	34.9	-96	2	25.4	-99	2	15.5		
Nov 3	3	73.0	-6	5	72.6	-18	5	71.3	-30	5	69.2	-42	5	66.3	-53	5	62.7	-63	4	58.3	-72	4	53.3	-80	4	47.7	-87	3	41.7	-92	3	35.3	-97	2	25.6	-100	1	15.6		
Nov 4	4	73.7	-6	4	73.2	-18	4	72.0	-30	4	69.8	-42	4	66.9	-53	4	63.2	-63	4	58.8	-72	3	53.8	-80	3	48.2	-87	3	42.1	-93	2	35.6	-98	2	25.8	-101	1	15.8		
Nov 5	5	74.2	-6	4	73.8	-19	4	72.5	-31	3	70.3	-42	3	67.4	-53	3	63.7	-64	3	59.2	-73	3	54.1	-81	2	48.5	-88	2	42.4	-94	2	35.8	-98	2	26.0	-102	1	15.9		
Nov 6	6	74.6	-6	3	74.2	-19	3	72.9	-31	3	70.7	-43	3	67.8	-54	2	64.0	-64	2	59.6	-73	2	54.5	-81	2	48.8	-88	2	42.6	-94	1	36.0	-99	1	26.2	-102	1	16.0		
Nov 7	7	75.0	-6	2	74.5	-19	2	73.2	-31	2	71.1	-43	2	68.1	-54	2	64.3	-64	2	59.8	-73	2	54.7	-82	1	49.0	-89	1	42.8	-94	1	36.2	-99	1	26.3	-102	1	16.1		
Nov 8	8	75.2	-6	1	74.8	-19	1	73.5	-31	1	71.3	-43	1	68.3	-54	1	64.5	-64	1	60.0	-74	1	54.9	-82	1	49.2	-89	1	42.9	-95	1	36.3	-100	1	26.4	-103	0	16.1		
Nov 9	9	75.4	-6	0	74.9	-19	0	73.6	-31	0	71.4	-43	0	68.4	-54	0	64.6	-64	0	60.1	-74	0	55.0	-82	0	49.2	-89	0	43.0	-95	0	36.4	-100	0	26.4	-103	0	16.1		
Nov 10	10	75.4	-6	0	75.0	-19	0	73.6	-31	0	71.5	-43	0	68.5	-54	0	64.7	-64	0	60.2	-74	0	55.0	-82	0	49.3	-89	0	43.0	-95	0	36.4	-100	0	26.4	-103	0	16.1		
Nov 11	11	75.4	-6	-1	74.9	-19	-1	73.6	-31	-1	71.4	-43	-1	68.4	-54	-1	64.6	-64	-1	60.1	-74	-1	55.0	-82	-1	49.2	-89	-1	43.0	-95	-1	36.4	-100	-1	26.4	-103	0	16.1		
Nov 12	12	75.2	-6	-3	74.7	-19	-3	73.4	-31	-2	71.3	-43	-2	68.3	-54	-2	64.5	-64	-2	60.0	-73	-2	54.9	-82	-2	49.1	-89	-2	42.9	-94	-1	36.3	-99	-1	26.4	-102	-1	16.1		
Nov 13	13	74.9	-6	-4	74.4	-19	-4	73.1	-31	-4	71.0	-42	-3	68																										

2005

Moon Parallax and Semi-diameter

		Upper Limb												
		Altitude degrees												
		0	7	14	21	28	35	42	49	56	63	70	80	90
		' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	' a t	'	
Oct 4	4	40.5 ⁻⁶ ₅	40.0 ⁻¹⁸ ₅	38.8 ⁻²⁹ ₅	36.8 ⁻⁴⁰ ₅	34.0 ⁻⁵¹ ₄	30.4 ⁻⁶¹ ₄	26.2 ⁻⁶⁹ ₄	21.3 ⁻⁷⁷ ₃	15.9 ⁻⁸⁴ ₃	10.1 ⁻⁸⁹ ₃	3.9 ⁻⁹⁴ ₂	-5.5 ⁻⁹⁷ ₁	-15.2
Oct 5	5	40.8 ⁻⁶ ₅	40.4 ⁻¹⁸ ₅	39.1 ⁻³⁰ ₅	37.1 ⁻⁴¹ ₅	34.2 ⁻⁵¹ ₅	30.7 ⁻⁶¹ ₄	26.4 ⁻⁷⁰ ₄	21.5 ⁻⁷⁸ ₄	16.1 ⁻⁸⁵ ₃	10.2 ⁻⁹⁰ ₃	3.9 ⁻⁹⁵ ₂	-5.5 ⁻⁹⁸ ₁	-15.3
Oct 6	6	41.2 ⁻⁶ ₅	40.7 ⁻¹⁸ ₅	39.5 ⁻³⁰ ₅	37.4 ⁻⁴¹ ₅	34.5 ⁻⁵² ₅	30.9 ⁻⁶² ₄	26.6 ⁻⁷¹ ₄	21.7 ⁻⁷⁹ ₄	16.2 ⁻⁸⁵ ₃	10.3 ⁻⁹¹ ₃	3.9 ⁻⁹⁶ ₂	-5.6 ⁻⁹⁹ ₁	-15.4
Oct 7	7	41.5 ⁻⁶ ₅	41.1 ⁻¹⁸ ₅	39.8 ⁻³⁰ ₅	37.7 ⁻⁴¹ ₅	34.8 ⁻⁵² ₅	31.2 ⁻⁶² ₄	26.9 ⁻⁷¹ ₄	21.9 ⁻⁷⁹ ₄	16.4 ⁻⁸⁶ ₃	10.4 ⁻⁹² ₃	4.0 ⁻⁹⁷ ₂	-5.6 ⁻¹⁰⁰ ₂	-15.6
Oct 8	8	41.9 ⁻⁶ ₅	41.5 ⁻¹⁸ ₅	40.2 ⁻³⁰ ₅	38.1 ⁻⁴² ₅	35.1 ⁻⁵³ ₅	31.5 ⁻⁶³ ₄	27.1 ⁻⁷² ₄	22.1 ⁻⁸⁰ ₄	16.5 ⁻⁸⁷ ₃	10.4 ⁻⁹² ₃	4.0 ⁻⁹⁷ ₂	-5.7 ⁻¹⁰⁰ ₂	-15.7
Oct 9	9	42.3 ⁻⁶ ₅	41.8 ⁻¹⁹ ₅	40.5 ⁻³¹ ₅	38.4 ⁻⁴² ₅	35.5 ⁻⁵³ ₅	31.7 ⁻⁶³ ₄	27.3 ⁻⁷³ ₄	22.3 ⁻⁸¹ ₄	16.6 ⁻⁸⁸ ₃	10.5 ⁻⁹³ ₃	4.0 ⁻⁹⁸ ₂	-5.7 ⁻¹⁰¹ ₁	-15.8
Oct 10	10	42.6 ⁻⁶ ₅	42.2 ⁻¹⁹ ₅	40.9 ⁻³¹ ₅	38.7 ⁻⁴³ ₅	35.8 ⁻⁵⁴ ₄	32.0 ⁻⁶⁴ ₄	27.6 ⁻⁷³ ₄	22.5 ⁻⁸¹ ₃	16.8 ⁻⁸⁸ ₃	10.6 ⁻⁹⁴ ₃	4.1 ⁻⁹⁹ ₂	-5.8 ⁻¹⁰² ₁	-16.0
Oct 11	11	42.9 ⁻⁶ ₄	42.5 ⁻¹⁹ ₄	41.2 ⁻³¹ ₄	39.0 ⁻⁴³ ₄	36.0 ⁻⁵⁴ ₄	32.3 ⁻⁶⁴ ₄	27.8 ⁻⁷⁴ ₃	22.6 ⁻⁸² ₃	16.9 ⁻⁸⁹ ₃	10.7 ⁻⁹⁵ ₂	4.1 ⁻¹⁰⁰ ₂	-5.8 ⁻¹⁰³ ₁	-16.1
Oct 12	12	43.3 ⁻⁶ ₃	42.8 ⁻¹⁹ ₃	41.5 ⁻³¹ ₃	39.3 ⁻⁴³ ₃	36.3 ⁻⁵⁴ ₃	32.5 ⁻⁶⁵ ₃	28.0 ⁻⁷⁴ ₃	22.8 ⁻⁸² ₂	17.0 ⁻⁹⁰ ₂	10.8 ⁻⁹⁵ ₂	4.1 ⁻¹⁰⁰ ₁	-5.9 ⁻¹⁰⁴ ₁	-16.2
Oct 13	13	43.5 ⁻⁶ ₂	43.0 ⁻¹⁹ ₂	41.7 ⁻³¹ ₂	39.5 ⁻⁴³ ₂	36.5 ⁻⁵⁵ ₂	32.7 ⁻⁶⁵ ₂	28.1 ⁻⁷⁴ ₂	22.9 ⁻⁸³ ₁	17.1 ⁻⁹⁰ ₁	10.8 ⁻⁹⁶ ₁	4.2 ⁻¹⁰¹ ₁	-5.9 ⁻¹⁰⁴ ₁	-16.3
Oct 14	14	43.6 ⁻⁶ ₀	43.2 ⁻¹⁹ ₀	41.8 ⁻³¹ ₀	39.6 ⁻⁴³ ₀	36.6 ⁻⁵⁵ ₀	32.8 ⁻⁶⁵ ₀	28.2 ⁻⁷⁵ ₀	23.0 ⁻⁸³ ₀	17.2 ⁻⁹⁰ ₀	10.9 ⁻⁹⁶ ₀	4.2 ⁻¹⁰¹ ₀	-5.9 ⁻¹⁰⁴ ₀	-16.3
Oct 15	15	43.6 ⁻⁶ ₋₂	43.2 ⁻¹⁹ ₋₂	41.9 ⁻³¹ ₋₂	39.7 ⁻⁴³ ₋₂	36.6 ⁻⁵⁵ ₋₂	32.8 ⁻⁶⁵ ₋₂	28.2 ⁻⁷⁵ ₋₁	23.0 ⁻⁸³ ₋₁	17.2 ⁻⁹⁰ ₋₁	10.9 ⁻⁹⁶ ₋₁	4.2 ⁻¹⁰¹ ₋₁	-5.9 ⁻¹⁰⁴ ₋₁	-16.3
Oct 16	16	43.5 ⁻⁶ ₋₄	43.1 ⁻¹⁹ ₋₄	41.7 ⁻³¹ ₋₄	39.5 ⁻⁴³ ₋₄	36.5 ⁻⁵⁴ ₋₄	32.7 ⁻⁶⁵ ₋₃	28.1 ⁻⁷⁴ ₋₃	22.9 ⁻⁸² ₋₃	17.1 ⁻⁹⁰ ₋₃	10.9 ⁻⁹⁵ ₋₂	4.2 ⁻¹⁰⁰ ₋₂	-5.9 ⁻¹⁰³ ₋₁	-16.3
Oct 17	17	43.2 ⁻⁶ ₋₆	42.8 ⁻¹⁹ ₋₆	41.5 ⁻³¹ ₋₆	39.3 ⁻⁴³ ₋₆	36.3 ⁻⁵⁴ ₋₅	32.5 ⁻⁶⁴ ₋₅	28.0 ⁻⁷⁴ ₋₅	22.8 ⁻⁸² ₋₄	17.0 ⁻⁸⁹ ₋₄	10.8 ⁻⁹⁵ ₋₃	4.1 ⁻¹⁰⁰ ₋₃	-5.9 ⁻¹⁰³ ₋₂	-16.2
Oct 18	18	42.8 ⁻⁶ ₋₇	42.4 ⁻¹⁹ ₋₇	41.1 ⁻³¹ ₋₇	38.9 ⁻⁴² ₋₇	35.9 ⁻⁵³ ₋₇	32.2 ⁻⁶⁴ ₋₆	27.7 ⁻⁷³ ₋₆	22.6 ⁻⁸¹ ₋₅	16.9 ⁻⁸⁸ ₋₅	10.7 ⁻⁹⁴ ₋₄	4.1 ⁻⁹⁸ ₋₃	-5.8 ⁻¹⁰² ₋₂	-16.0
Oct 19	19	42.3 ⁻⁶ ₋₈	41.9 ⁻¹⁸ ₋₈	40.6 ⁻³⁰ ₋₈	38.4 ⁻⁴² ₋₈	35.5 ⁻⁵³ ₋₇	31.8 ⁻⁶³ ₋₇	27.4 ⁻⁷² ₋₆	22.3 ⁻⁸⁰ ₋₆	16.7 ⁻⁸⁷ ₋₅	10.6 ⁻⁹² ₋₄	4.0 ⁻⁹⁷ ₋₃	-5.7 ⁻¹⁰⁰ ₋₂	-15.8
Oct 20	20	41.7 ⁻⁶ ₋₈	41.3 ⁻¹⁸ ₋₈	40.0 ⁻³⁰ ₋₈	37.9 ⁻⁴¹ ₋₈	35.0 ⁻⁵² ₋₇	31.4 ⁻⁶² ₋₇	27.0 ⁻⁷¹ ₋₆	22.0 ⁻⁷⁹ ₋₆	16.4 ⁻⁸⁶ ₋₅	10.4 ⁻⁹¹ ₋₄	4.0 ⁻⁹⁶ ₋₃	-5.7 ⁻⁹⁹ ₋₂	-15.6
Oct 21	21	41.2 ⁻⁶ ₋₈	40.7 ⁻¹⁸ ₋₈	39.5 ⁻²⁹ ₋₇	37.4 ⁻⁴¹ ₋₇	34.5 ⁻⁵¹ ₋₇	30.9 ⁻⁶¹ ₋₆	26.6 ⁻⁷⁰ ₋₆	21.7 ⁻⁷⁸ ₋₅	16.2 ⁻⁸⁴ ₋₅	10.3 ⁻⁹⁰ ₋₄	3.9 ⁻⁹⁵ ₋₃	-5.6 ⁻⁹⁸ ₋₂	-15.4
Oct 22	22	40.6 ⁻⁶ ₋₇	40.2 ⁻¹⁸ ₋₇	39.0 ⁻²⁹ ₋₆	36.9 ⁻⁴⁰ ₋₆	34.1 ⁻⁵¹ ₋₆	30.5 ⁻⁶⁰ ₋₆	26.3 ⁻⁶⁹ ₋₅	21.4 ⁻⁷⁷ ₋₅	16.0 ⁻⁸³ ₋₄	10.1 ⁻⁸⁹ ₋₄	3.9 ⁻⁹³ ₋₃	-5.5 ⁻⁹⁶ ₋₂	-15.2
Oct 23	23	40.2 ⁻⁶ ₋₅	39.8 ⁻¹⁷ ₋₅	38.5 ⁻²⁹ ₋₅	36.5 ⁻⁴⁰ ₋₅	33.7 ⁻⁵⁰ ₋₅	30.2 ⁻⁶⁰ ₋₄	26.0 ⁻⁶⁸ ₋₄	21.2 ⁻⁷⁶ ₋₄	15.8 ⁻⁸³ ₋₃	10.0 ⁻⁸⁸ ₋₃	3.8 ⁻⁹³ ₋₂	-5.5 ⁻⁹⁵ ₋₁	-15.0
Oct 24	24	39.8 ⁻⁶ ₋₃	39.4 ⁻¹⁷ ₋₃	38.2 ⁻²⁹ ₋₃	36.2 ⁻³⁹ ₋₃	33.4 ⁻⁵⁰ ₋₃	29.9 ⁻⁵⁹ ₋₃	25.7 ⁻⁶⁸ ₋₃	21.0 ⁻⁷⁵ ₋₂	15.7 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₂	3.8 ⁻⁹² ₋₁	-5.4 ⁻⁹⁵ ₋₁	-14.9
Oct 25	25	39.6 ⁻⁶ ₋₂	39.2 ⁻¹⁷ ₋₂	37.9 ⁻²⁸ ₋₂	36.0 ⁻³⁹ ₋₂	33.2 ⁻⁴⁹ ₋₁	29.7 ⁻⁵⁹ ₋₁	25.6 ⁻⁶⁸ ₋₁	20.9 ⁻⁷⁵ ₋₁	15.6 ⁻⁸² ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₀	-14.8
Oct 26	26	39.4 ⁻⁶ ₀	39.0 ⁻¹⁷ ₀	37.8 ⁻²⁸ ₀	35.8 ⁻³⁹ ₀	33.1 ⁻⁴⁹ ₀	29.6 ⁻⁵⁹ ₀	25.5 ⁻⁶⁷ ₀	20.8 ⁻⁷⁵ ₀	15.5 ⁻⁸² ₀	9.8 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	-5.4 ⁻⁹⁴ ₀	-14.8
Oct 27	27	39.5 ⁻⁶ ₂	39.1 ⁻¹⁷ ₂	37.9 ⁻²⁹ ₂	35.9 ⁻³⁹ ₂	33.1 ⁻⁵⁰ ₂	29.7 ⁻⁵⁹ ₂	25.5 ⁻⁶⁸ ₁	20.8 ⁻⁷⁵ ₁	15.6 ⁻⁸² ₁	9.8 ⁻⁸⁷ ₁	3.8 ⁻⁹¹ ₁	-5.4 ⁻⁹⁴ ₁	-14.8
Oct 28	28	39.6 ⁻⁶ ₃	39.2 ⁻¹⁷ ₃	38.0 ⁻²⁹ ₃	36.0 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₃	25.6 ⁻⁶⁸ ₃	20.9 ⁻⁷⁶ ₂	15.6 ⁻⁸² ₂	9.9 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₁	-5.4 ⁻⁹⁵ ₁	-14.8
Oct 29	29	39.8 ⁻⁶ ₅	39.4 ⁻¹⁷ ₅	38.2 ⁻²⁹ ₄	36.2 ⁻⁴⁰ ₄	33.4 ⁻⁵⁰ ₄	29.9 ⁻⁶⁰ ₄	25.8 ⁻⁶⁸ ₄	21.0 ⁻⁷⁶ ₃	15.7 ⁻⁸³ ₃	9.9 ⁻⁸⁸ ₂	3.8 ⁻⁹³ ₂	-5.4 ⁻⁹⁵ ₁	-14.9
Oct 30	30	40.1 ⁻⁶ ₆	39.7 ⁻¹⁸ ₅	38.5 ⁻²⁹ ₅	36.5 ⁻⁴⁰ ₅	33.7 ⁻⁵¹ ₅	30.2 ⁻⁶⁰ ₅	26.0 ⁻⁶⁹ ₄	21.2 ⁻⁷⁷ ₄	15.8 ⁻⁸³ ₃	10.0 ⁻⁸⁹ ₃	3.8 ⁻⁹³ ₂	-5.5 ⁻⁹⁶ ₂	-15.0
Oct 31	31	40.5 ⁻⁶ ₆	40.1 ⁻¹⁸ ₆	38.9 ⁻²⁹ ₆	36.8 ⁻⁴¹ ₆	34.0 ⁻⁵¹ ₅	30.5 ⁻⁶¹ ₅	26.2 ⁻⁷⁰ ₅	21.4 ⁻⁷⁷ ₄	16.0 ⁻⁸⁴ ₄	10.1 ⁻⁹⁰ ₃	3.9 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.2
Nov 1	1	40.9 ⁻⁶ ₆	40.5 ⁻¹⁸ ₆	39.3 ⁻³⁰ ₆	37.2 ⁻⁴¹ ₆	34.4 ⁻⁵² ₅	30.8 ⁻⁶¹ ₅	26.5 ⁻⁷⁰ ₅	21.6 ⁻⁷⁸ ₄	16.1 ⁻⁸⁵ ₄	10.2 ⁻⁹⁰ ₃	3.9 ⁻⁹⁵ ₃	-5.6 ⁻⁹⁸ ₂	-15.3
Nov 2	2	41.4 ⁻⁶ ₆	40.9 ⁻¹⁸ ₆	39.7 ⁻³⁰ ₆	37.6 ⁻⁴¹ ₅	34.7 ⁻⁵² ₅	31.1 ⁻⁶² ₅	26.8 ⁻⁷¹ ₄	21.8 ⁻⁷⁹ ₄	16.3 ⁻⁸⁶ ₄	10.3 ⁻⁹¹ ₃	4.0 ⁻⁹⁶ ₂	-5.6 ⁻⁹⁹ ₂	-15.5
Nov 3	3	41.8 ⁻⁶ ₅	41.3 ⁻¹⁸ ₅	40.1 ⁻³⁰ ₅	37.9 ⁻⁴² ₅	35.0 ⁻⁵³ ₅	31.4 ⁻⁶³ ₄	27.0 ⁻⁷² ₄	22.0 ⁻⁸⁰ ₄	16.5 ⁻⁸⁷ ₃	10.4 ⁻⁹² ₃	4.0 ⁻⁹⁷ ₂	-5.7 ⁻¹⁰⁰ ₁	-15.6
Nov 4	4	42.1 ⁻⁶ ₄	41.7 ⁻¹⁸ ₄	40.4 ⁻³⁰ ₄	38.3 ⁻⁴² ₄	35.3 ⁻⁵³ ₄	31.6 ⁻⁶³ ₄	27.2 ⁻⁷² ₃	22.2 ⁻⁸⁰ ₃	16.6 ⁻⁸⁷ ₃	10.5 ⁻⁹³ ₂	4.0 ⁻⁹⁸ ₂	-5.7 ⁻¹⁰¹ ₁	-15.8
Nov 5	5	42.4 ⁻⁶ ₄	42.0 ⁻¹⁹ ₄	40.7 ⁻³¹ ₃	38.5 ⁻⁴² ₃	35.6 ⁻⁵³ ₃	31.9 ⁻⁶⁴ ₃	27.4 ⁻⁷³ ₃	22.4 ⁻⁸¹ ₂	16.7 ⁻⁸⁸ ₂	10.6 ⁻⁹⁴ ₂	4.1 ⁻⁹⁸ ₂	-5.8 ⁻¹⁰² ₁	-15.9
Nov 6	6	42.7 ⁻⁶ ₃	42.2 ⁻¹⁹ ₃	40.9 ⁻³¹ ₃	38.8 ⁻⁴³ ₃	35.8 ⁻⁵⁴ ₂	32.1 ⁻⁶⁴ ₂	27.6 ⁻⁷³ ₂	22.5 ⁻⁸¹ ₂	16.8 ⁻⁸⁸ ₂	10.6 ⁻⁹⁴ ₁	4.1 ⁻⁹⁹ ₁	-5.8 ⁻¹⁰² ₁	-16.0
Nov 7	7	42.9 ⁻⁶ ₂	42.4 ⁻¹⁹ ₂	41.1 ⁻³¹ ₂	38.9 ⁻⁴³ ₂	36.0 ⁻⁵⁴ ₂	32.2 ⁻⁶⁴ ₂	27.7 ⁻⁷³ ₂	22.6 ⁻⁸² ₁	16.9 ⁻⁸⁹ ₁	10.7 ⁻⁹⁴ ₁	4.1 ⁻⁹⁹ ₁	-5.8 ⁻¹⁰² ₁	-16.1
Nov 8	8	43.0 ⁻⁶ ₁	42.6 ⁻¹⁹ ₁	41.2 ⁻³¹ ₁	39.1 ⁻⁴³ ₁	36.1 ⁻⁵⁴ ₁	32.3 ⁻⁶⁴ ₁	27.8 ⁻⁷⁴ ₁	22.7 ⁻⁸² ₁	16.9 ⁻⁸⁹ ₁	10.7 ⁻⁹⁵ ₁	4.1 ⁻¹⁰⁰ ₁	-5.8 ⁻¹⁰³ ₀	-16.1
Nov 9	9	43.1 ⁻⁶ ₀	42.6 ⁻¹⁹ ₀	41.3 ⁻³¹ ₀	39.1 ⁻⁴³ ₀	36.1 ⁻⁵⁴ ₀	32.4 ⁻⁶⁴ ₀	27.9 ⁻⁷⁴ ₀	22.7 ⁻⁸² ₀	17.0 ⁻⁸⁹ ₀	10.7 ⁻⁹⁵ ₀	4.1 ⁻¹⁰⁰ ₀	-5.9 ⁻¹⁰³ ₀	-16.1
Nov 10	10	43.1 ⁻⁶ ₀	42.7 ⁻¹⁹ ₀	41.3 ⁻³¹ ₀	39.2 ⁻⁴³ ₀	36.2 ⁻⁵⁴ ₀	32.4 ⁻⁶⁴ ₀	27.9 ⁻⁷⁴ ₀	22.7 ⁻⁸² ₀	17.0 ⁻⁸⁹ ₀	10.8 ⁻⁹⁵ ₀	4.1 ⁻¹⁰⁰ ₀	-5.9 ⁻¹⁰³ ₀	-16.1
Nov 11	11	43.1 ⁻⁶ ₋₁	42.6 ⁻¹⁹ ₋₁	41.3 ⁻³¹ ₋₁	39.1 ⁻⁴³ ₋₁	36.1 ⁻⁵⁴ ₋₁	32.4 ⁻⁶⁴ ₋₁	27.9 ⁻⁷⁴ ₋₁	22.7 ⁻⁸² ₋₁	17.0 ⁻⁸⁹ ₋₁	10.7 ⁻⁹⁵ ₋₁	4.1 ⁻¹⁰⁰ ₋₁	-5.9 ⁻¹⁰³ ₀	-16.1
Nov 12	12	43.0 ⁻⁶ ₋₃	42.5 ⁻¹⁹ ₋₃	41.2 ⁻³¹ ₋₂	39.1 ⁻⁴³ ₋₂	36.1 ⁻⁵⁴ ₋₂	32.3 ⁻⁶⁴ ₋₂	27.8 ⁻⁷³ ₋₂	22.7 ⁻⁸² ₋₂	16.9 ⁻⁸⁹ ₋₂	10.7 ⁻⁹⁴ ₋₁	4.1 ⁻⁹⁹ ₋₁	-5.8 ⁻¹⁰² ₋₁	-16.1
Nov 13	13	42.8 ⁻⁶ ₋₄	42.4 ⁻¹⁹ ₋₄	41.1 ⁻³¹ ₋₄	38.9 ⁻⁴² ₋₃	35.9 ⁻⁵³ ₋₃	32.2 ⁻⁶⁴ ₋₃	27.7 ⁻⁷³ ₋₃	22.6 ⁻⁸¹ ₋₃	16.9 ⁻⁸⁸ ₋₂	10.7 ⁻⁹⁴ ₋₂	4.1 ⁻⁹⁹ ₋₂	-5.8 ⁻¹⁰² ₋₁	-16.0
Nov 14	14	42.6 ⁻⁶ ₋₅	42.1 ⁻¹⁹ ₋₅	40.8 ⁻³¹ _{-5</}										

2005

Moon Parallax and Semi-diameter

Lower Limb																																													
Altitude degrees																																													
	0			7			14			21			28			35			42			49			56			63			70			80			90								
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t
Nov 19	70.8	⁻⁶	₋₆	70.4	⁻¹⁸	₋₆	69.1	⁻²⁹	₋₅	67.1	⁻⁴⁰	₋₅	64.3	⁻⁵⁰	₋₅	60.7	⁻⁶⁰	₋₅	56.5	⁻⁶⁹	₋₄	51.7	⁻⁷⁷	₋₄	46.3	⁻⁸³	₋₃	40.4	⁻⁸⁹	₋₃	34.2	⁻⁹³	₋₂	24.8	⁻⁹⁶	₋₂	15.2								
Nov 20	70.1	⁻⁶	₋₅	69.7	⁻¹⁷	₋₅	68.5	⁻²⁹	₋₄	66.4	⁻⁴⁰	₋₄	63.7	⁻⁵⁰	₋₄	60.1	⁻⁶⁰	₋₄	56.0	⁻⁶⁸	₋₃	51.2	⁻⁷⁶	₋₃	45.8	⁻⁸²	₋₃	40.0	⁻⁸⁸	₋₂	33.9	⁻⁹²	₋₂	24.6	⁻⁹⁵	₋₁	15.0								
Nov 21	69.6	⁻⁶	₋₃	69.1	⁻¹⁷	₋₃	67.9	⁻²⁹	₋₃	65.9	⁻³⁹	₋₃	63.2	⁻⁵⁰	₋₃	59.7	⁻⁵⁹	₋₃	55.5	⁻⁶⁸	₋₂	50.8	⁻⁷⁵	₋₂	45.5	⁻⁸²	₋₂	39.7	⁻⁸⁷	₋₂	33.6	⁻⁹²	₋₁	24.4	⁻⁹⁵	₋₁	14.9								
Nov 22	69.2	⁻⁶	₋₁	68.8	⁻¹⁷	₋₁	67.6	⁻²⁸	₋₁	65.6	⁻³⁹	₋₁	62.8	⁻⁴⁹	₋₁	59.4	⁻⁵⁹	₋₁	55.2	⁻⁶⁸	₋₁	50.5	⁻⁷⁵	₋₁	45.2	⁻⁸²	₋₁	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.3	⁻⁹⁴	₀	14.8								
Nov 23	69.0	⁻⁶	₀	68.6	⁻¹⁷	₀	67.4	⁻²⁸	₀	65.4	⁻³⁹	₀	62.7	⁻⁴⁹	₀	59.2	⁻⁵⁹	₀	55.1	⁻⁶⁸	₀	50.4	⁻⁷⁵	₀	45.1	⁻⁸²	₀	39.4	⁻⁸⁷	₀	33.3	⁻⁹¹	₀	24.2	⁻⁹⁴	₀	14.8								
Nov 24	69.1	⁻⁶	₂	68.7	⁻¹⁷	₂	67.5	⁻²⁹	₂	65.5	⁻³⁹	₂	62.7	⁻⁵⁰	₂	59.3	⁻⁵⁹	₂	55.1	⁻⁶⁸	₂	50.4	⁻⁷⁵	₂	45.1	⁻⁸²	₁	39.4	⁻⁸⁷	₁	33.4	⁻⁹²	₁	24.2	⁻⁹⁴	₁	14.8								
Nov 25	69.3	⁻⁶	₄	68.9	⁻¹⁷	₄	67.7	⁻²⁹	₄	65.7	⁻⁴⁰	₄	63.0	⁻⁵⁰	₄	59.5	⁻⁵⁹	₃	55.3	⁻⁶⁸	₃	50.6	⁻⁷⁶	₃	45.3	⁻⁸²	₃	39.6	⁻⁸⁷	₂	33.5	⁻⁹²	₂	24.3	⁻⁹⁵	₁	14.8								
Nov 26	69.8	⁻⁶	₆	69.4	⁻¹⁸	₆	68.2	⁻²⁹	₅	66.2	⁻⁴⁰	₅	63.4	⁻⁵⁰	₅	59.9	⁻⁶⁰	₅	55.7	⁻⁶⁹	₄	51.0	⁻⁷⁶	₄	45.6	⁻⁸³	₃	39.9	⁻⁸⁸	₃	33.7	⁻⁹³	₂	24.5	⁻⁹⁶	₂	15.0								
Nov 27	70.5	⁻⁶	₇	70.1	⁻¹⁸	₇	68.9	⁻²⁹	₇	66.8	⁻⁴⁰	₆	64.0	⁻⁵¹	₆	60.5	⁻⁶¹	₆	56.3	⁻⁶⁹	₅	51.5	⁻⁷⁷	₅	46.1	⁻⁸⁴	₄	40.3	⁻⁸⁹	₄	34.1	⁻⁹⁴	₃	24.7	⁻⁹⁷	₂	15.1								
Nov 28	71.3	⁻⁶	₈	70.9	⁻¹⁸	₈	69.7	⁻³⁰	₇	67.6	⁻⁴¹	₇	64.8	⁻⁵¹	₇	61.2	⁻⁶¹	₆	56.9	⁻⁷⁰	₆	52.1	⁻⁷⁸	₅	46.6	⁻⁸⁵	₅	40.7	⁻⁹⁰	₄	34.5	⁻⁹⁵	₃	25.0	⁻⁹⁸	₂	15.3								
Nov 29	72.3	⁻⁶	₈	71.8	⁻¹⁸	₈	70.6	⁻³⁰	₈	68.5	⁻⁴¹	₇	65.6	⁻⁵²	₇	62.0	⁻⁶²	₆	57.7	⁻⁷¹	₆	52.7	⁻⁷⁹	₅	47.2	⁻⁸⁶	₅	41.3	⁻⁹¹	₄	34.9	⁻⁹⁶	₃	25.3	⁻⁹⁹	₂	15.5								
Nov 30	73.2	⁻⁶	₇	72.8	⁻¹⁸	₇	71.5	⁻³⁰	₇	69.4	⁻⁴²	₇	66.5	⁻⁵³	₇	62.8	⁻⁶³	₆	58.4	⁻⁷²	₆	53.4	⁻⁸⁰	₅	47.8	⁻⁸⁷	₅	41.8	⁻⁹³	₄	35.3	⁻⁹⁷	₃	25.7	⁻¹⁰⁰	₂	15.7								
Dec 1	74.1	⁻⁶	₆	73.7	⁻¹⁹	₆	72.4	⁻³¹	₆	70.2	⁻⁴²	₆	67.3	⁻⁵³	₆	63.6	⁻⁶⁴	₅	59.1	⁻⁷³	₅	54.1	⁻⁸¹	₄	48.4	⁻⁸⁸	₄	42.3	⁻⁹⁴	₃	35.8	⁻⁹⁹	₃	26.0	⁻¹⁰²	₂	15.9								
Dec 2	74.9	⁻⁶	₅	74.4	⁻¹⁹	₅	73.1	⁻³¹	₅	70.9	⁻⁴³	₄	68.0	⁻⁵⁴	₄	64.2	⁻⁶⁴	₄	59.7	⁻⁷³	₄	54.6	⁻⁸²	₃	48.9	⁻⁸⁹	₃	42.7	⁻⁹⁴	₃	36.1	⁻⁹⁹	₂	26.2	⁻¹⁰³	₁	16.0								
Dec 3	75.4	⁻⁶	₃	75.0	⁻¹⁹	₃	73.7	⁻³¹	₃	71.5	⁻⁴³	₃	68.5	⁻⁵⁴	₃	64.7	⁻⁶⁵	₃	60.2	⁻⁷⁴	₂	55.0	⁻⁸²	₂	49.3	⁻⁸⁹	₂	43.1	⁻⁹⁵	₂	36.4	⁻¹⁰⁰	₁	26.4	⁻¹⁰³	₁	16.2								
Dec 4	75.8	⁻⁶	₁	75.4	⁻¹⁹	₁	74.0	⁻³¹	₁	71.8	⁻⁴³	₁	68.8	⁻⁵⁴	₁	65.0	⁻⁶⁵	₁	60.5	⁻⁷⁴	₁	55.3	⁻⁸³	₁	49.5	⁻⁹⁰	₁	43.3	⁻⁹⁵	₁	36.6	⁻¹⁰⁰	₀	26.6	⁻¹⁰⁴	₀	16.2								
Dec 5	75.9	⁻⁶	₀	75.5	⁻¹⁹	₀	74.2	⁻³¹	₀	72.0	⁻⁴³	₀	69.0	⁻⁵⁴	₀	65.2	⁻⁶⁵	₀	60.6	⁻⁷⁴	₀	55.4	⁻⁸³	₀	49.6	⁻⁹⁰	₀	43.4	⁻⁹⁵	₀	36.7	⁻¹⁰⁰	₀	26.6	⁻¹⁰⁴	₀	16.3								
Dec 6	75.9	⁻⁶	₋₂	75.4	⁻¹⁹	₋₂	74.1	⁻³¹	₋₂	71.9	⁻⁴³	₋₂	68.9	⁻⁵⁴	₋₂	65.1	⁻⁶⁵	₋₂	60.6	⁻⁷⁴	₋₁	55.4	⁻⁸²	₋₁	49.6	⁻⁸⁹	₋₁	43.3	⁻⁹⁵	₋₁	36.6	⁻¹⁰⁰	₋₁	26.6	⁻¹⁰³	₋₁	16.2								
Dec 7	75.7	⁻⁶	₋₃	75.2	⁻¹⁹	₋₃	73.9	⁻³¹	₋₃	71.7	⁻⁴³	₋₃	68.7	⁻⁵⁴	₋₃	64.9	⁻⁶⁴	₋₂	60.4	⁻⁷⁴	₋₂	55.2	⁻⁸²	₋₂	49.4	⁻⁸⁹	₋₂	43.2	⁻⁹⁵	₋₂	36.5	⁻¹⁰⁰	₋₁	26.5	⁻¹⁰³	₋₁	16.2								
Dec 8	75.3	⁻⁶	₋₄	74.9	⁻¹⁹	₋₄	73.6	⁻³¹	₋₃	71.4	⁻⁴³	₋₃	68.4	⁻⁵⁴	₋₃	64.6	⁻⁶⁴	₋₃	60.1	⁻⁷³	₋₃	55.0	⁻⁸²	₋₂	49.2	⁻⁸⁹	₋₂	43.0	⁻⁹⁴	₋₂	36.4	⁻⁹⁹	₋₂	26.4	⁻¹⁰²	₋₁	16.1								
Dec 9	74.9	⁻⁶	₋₄	74.4	⁻¹⁹	₋₄	73.1	⁻³¹	₋₄	71.0	⁻⁴²	₋₄	68.0	⁻⁵³	₋₄	64.2	⁻⁶⁴	₋₃	59.8	⁻⁷³	₋₃	54.6	⁻⁸¹	₋₃	48.9	⁻⁸⁸	₋₃	42.7	⁻⁹⁴	₋₂	36.2	⁻⁹⁹	₋₂	26.3	⁻¹⁰²	₋₁	16.0								
Dec 10	74.4	⁻⁶	₋₄	74.0	⁻¹⁹	₋₄	72.7	⁻³¹	₋₄	70.5	⁻⁴²	₋₄	67.5	⁻⁵³	₋₄	63.8	⁻⁶³	₋₄	59.4	⁻⁷²	₋₃	54.3	⁻⁸¹	₋₃	48.6	⁻⁸⁸	₋₃	42.5	⁻⁹³	₋₂	35.9	⁻⁹⁸	₋₂	26.1	⁻¹⁰¹	₋₁	15.9								
Dec 11	73.9	⁻⁶	₋₅	73.4	⁻¹⁸	₋₅	72.1	⁻³⁰	₋₅	70.0	⁻⁴²	₋₄	67.1	⁻⁵³	₋₄	63.4	⁻⁶³	₋₄	58.9	⁻⁷²	₋₄	53.9	⁻⁸⁰	₋₃	48.3	⁻⁸⁷	₋₃	42.2	⁻⁹²	₋₂	35.7	⁻⁹⁷	₋₂	25.9	⁻¹⁰⁰	₋₁	15.8								
Dec 12	73.3	⁻⁶	₋₅	72.9	⁻¹⁸	₋₅	71.6	⁻³⁰	₋₅	69.5	⁻⁴¹	₋₅	66.6	⁻⁵²	₋₄	62.9	⁻⁶²	₋₄	58.5	⁻⁷¹	₋₄	53.5	⁻⁷⁹	₋₃	47.9	⁻⁸⁶	₋₃	41.8	⁻⁹²	₋₂	35.4	⁻⁹⁷	₋₂	25.7	⁻¹⁰⁰	₋₁	15.7								
Dec 13	72.7	⁻⁶	₋₅	72.3	⁻¹⁸	₋₅	71.0	⁻³⁰	₋₅	68.9	⁻⁴¹	₋₅	66.0	⁻⁵²	₋₅	62.4	⁻⁶²	₋₄	58.0	⁻⁷¹	₋₄	53.1	⁻⁷⁹	₋₄	47.5	⁻⁸⁶	₋₃	41.5	⁻⁹¹	₋₃	35.1	⁻⁹⁶	₋₂	25.5	⁻⁹⁹	₋₁	15.6								
Dec 14	72.1	⁻⁶	₋₅	71.7	⁻¹⁸	₋₅	70.4	⁻³⁰	₋₅	68.3	⁻⁴¹	₋₅	65.5	⁻⁵¹	₋₅	61.8	⁻⁶¹	₋₄	57.5	⁻⁷⁰	₋₄	52.6	⁻⁷⁸	₋₄	47.1	⁻⁸⁵	₋₃	41.2	⁻⁹⁰	₋₃	34.8	⁻⁹⁵	₋₂	25.3	⁻⁹⁸	₋₁	15.4								
Dec 15	71.5	⁻⁶	₋₅	71.0	⁻¹⁸	₋₅	69.8	⁻²⁹	₋₅	67.7	⁻⁴⁰	₋₅	64.9	⁻⁵¹	₋₅	61.3	⁻⁶¹	₋₄	57.0	⁻⁷⁰	₋₄	52.1	⁻⁷⁷	₋₄	46.7	⁻⁸⁴	₋₃	40.8	⁻⁸⁹	₋₃	34.5	⁻⁹⁴	₋₂	25.1	⁻⁹⁷	₋₁	15.3								
Dec 16	70.8	⁻⁶	₋₅	70.4	⁻¹⁸	₋₅	69.2	⁻²⁹	₋₅	67.1	⁻⁴⁰	₋₅	64.3	⁻⁵¹	₋₄	60.8	⁻⁶⁰	₋₄	56.5	⁻⁶⁹	₋₄	51.7	⁻⁷⁷	₋₃	46.3	⁻⁸³	₋₃	40.4	⁻⁸⁹	₋₃	34.2	⁻⁹³	₋₂	24.8	⁻⁹⁶	₋₁	15.2								
Dec 17	70.2	⁻⁶	₋₄	69.8	⁻¹⁷	₋₄	68.6	⁻²⁹	₋₄	66.6	⁻⁴⁰	₋₄	63.8	⁻⁵⁰	₋₄	60.3	⁻⁶⁰	₋₄	56.1	⁻⁶⁸	₋₃	51.3	⁻⁷⁶	₋₃	45.9	⁻⁸³	₋₃	40.1	⁻⁸⁸	₋₂	33.9	⁻⁹³	₋₂	24.6	⁻⁹⁶	₋₁	15.0								
Dec 18	69.7	⁻⁶	₋₄	69.3	⁻¹⁷	₋₃	68.1	⁻²⁹	₋₃	66.1	⁻⁴⁰	₋₃	63.3	⁻⁵⁰	₋₃	59.8	⁻⁵⁹	₋₃	55.6	⁻⁶⁸	₋₃	50.9	⁻⁷⁶	₋₂	45.6	⁻⁸²	₋₂	39.8	⁻⁸⁷	₋₂	33.7	⁻⁹²	₋₁	24.4	⁻⁹⁵	₋₁	14.9								
Dec 19	69.3	⁻⁶	₋₂	68.9	⁻¹⁷	₋₂	67.7	⁻²⁹	₋₂	65.7	⁻³⁹	₋₂	62.9	⁻⁵⁰	₋₂	59.5	⁻⁵⁹	₋₂	55.3	⁻⁶⁸	₋₂	50.6	⁻⁷⁵	₋₂	45.3	⁻⁸²	₋₁	39.6	⁻⁸⁷	₋₁	33.5	⁻⁹²	₋₁	24.3											

2005

Moon Parallax and Semi-diameter

Upper Limb																																							
Altitude degrees																																							
	0			7			14			21			28			35			42			49			56			63			70			80			90		
	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t	'	a	t			
Nov 19	40.5	⁻⁶	₋₆	40.1	⁻¹⁸	₋₆	38.8	⁻²⁹	₋₅	36.8	⁻⁴⁰	₋₅	34.0	⁻⁵⁰	₋₅	30.4	⁻⁶⁰	₋₅	26.2	⁻⁶⁹	₋₄	21.3	⁻⁷⁷	₋₄	15.9	⁻⁸³	₋₃	10.1	⁻⁸⁹	₋₃	3.9	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₂	-15.2		
Nov 20	40.1	⁻⁶	₋₅	39.7	⁻¹⁷	₋₅	38.4	⁻²⁹	₋₄	36.4	⁻⁴⁰	₋₄	33.6	⁻⁵⁰	₋₄	30.1	⁻⁶⁰	₋₄	25.9	⁻⁶⁸	₋₃	21.1	⁻⁷⁶	₋₃	15.8	⁻⁸²	₋₃	10.0	⁻⁸⁸	₋₂	3.8	⁻⁹²	₋₂	-5.4	⁻⁹⁵	₋₁	-15.0		
Nov 21	39.8	⁻⁶	₋₃	39.4	⁻¹⁷	₋₃	38.1	⁻²⁹	₋₃	36.1	⁻³⁹	₋₃	33.4	⁻⁵⁰	₋₃	29.9	⁻⁵⁹	₋₃	25.7	⁻⁶⁸	₋₂	21.0	⁻⁷⁵	₋₂	15.7	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁵	₋₁	-14.9		
Nov 22	39.6	⁻⁶	₋₁	39.1	⁻¹⁷	₋₁	37.9	⁻²⁸	₋₁	35.9	⁻³⁹	₋₁	33.2	⁻⁴⁹	₋₁	29.7	⁻⁵⁹	₋₁	25.6	⁻⁶⁸	₋₁	20.9	⁻⁷⁵	₋₁	15.6	⁻⁸²	₋₁	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₋₁	-5.4	⁻⁹⁴	₀	-14.8		
Nov 23	39.5	⁻⁶	₀	39.1	⁻¹⁷	₀	37.8	⁻²⁸	₀	35.9	⁻³⁹	₀	33.1	⁻⁴⁹	₀	29.6	⁻⁵⁹	₀	25.5	⁻⁶⁸	₀	20.8	⁻⁷⁵	₀	15.5	⁻⁸²	₀	9.8	⁻⁸⁷	₀	3.8	⁻⁹¹	₀	-5.4	⁻⁹⁴	₀	-14.8		
Nov 24	39.5	⁻⁶	₂	39.1	⁻¹⁷	₂	37.9	⁻²⁹	₂	35.9	⁻³⁹	₂	33.1	⁻⁵⁰	₂	29.7	⁻⁵⁹	₂	25.5	⁻⁶⁸	₂	20.8	⁻⁷⁵	₂	15.6	⁻⁸²	₁	9.9	⁻⁸⁷	₁	3.8	⁻⁹²	₁	-5.4	⁻⁹⁴	₁	-14.8		
Nov 25	39.6	⁻⁶	₄	39.2	⁻¹⁷	₄	38.0	⁻²⁹	₄	36.0	⁻⁴⁰	₄	33.3	⁻⁵⁰	₄	29.8	⁻⁵⁹	₃	25.6	⁻⁶⁸	₃	20.9	⁻⁷⁶	₃	15.6	⁻⁸²	₃	9.9	⁻⁸⁷	₂	3.8	⁻⁹²	₂	-5.4	⁻⁹⁵	₁	-14.8		
Nov 26	39.9	⁻⁶	₆	39.5	⁻¹⁸	₆	38.3	⁻²⁹	₅	36.3	⁻⁴⁰	₅	33.5	⁻⁵⁰	₅	30.0	⁻⁶⁰	₅	25.8	⁻⁶⁹	₄	21.0	⁻⁷⁶	₄	15.7	⁻⁸³	₃	10.0	⁻⁸⁸	₃	3.8	⁻⁹³	₂	-5.4	⁻⁹⁶	₂	-15.0		
Nov 27	40.3	⁻⁶	₇	39.9	⁻¹⁸	₇	38.7	⁻²⁹	₇	36.6	⁻⁴⁰	₆	33.8	⁻⁵¹	₆	30.3	⁻⁶¹	₆	26.1	⁻⁶⁹	₅	21.3	⁻⁷⁷	₅	15.9	⁻⁸⁴	₄	10.1	⁻⁸⁹	₄	3.9	⁻⁹⁴	₃	-5.5	⁻⁹⁷	₂	-15.1		
Nov 28	40.8	⁻⁶	₈	40.4	⁻¹⁸	₈	39.1	⁻³⁰	₇	37.1	⁻⁴¹	₇	34.2	⁻⁵¹	₇	30.6	⁻⁶¹	₆	26.4	⁻⁷⁰	₆	21.5	⁻⁷⁸	₅	16.1	⁻⁸⁵	₅	10.2	⁻⁹⁰	₄	3.9	⁻⁹⁵	₃	-5.5	⁻⁹⁸	₂	-15.3		
Nov 29	41.3	⁻⁶	₈	40.9	⁻¹⁸	₈	39.6	⁻³⁰	₈	37.5	⁻⁴¹	₇	34.7	⁻⁵²	₇	31.0	⁻⁶²	₆	26.7	⁻⁷¹	₆	21.8	⁻⁷⁹	₅	16.3	⁻⁸⁶	₅	10.3	⁻⁹¹	₄	3.9	⁻⁹⁶	₃	-5.6	⁻⁹⁹	₂	-15.5		
Nov 30	41.8	⁻⁶	₇	41.4	⁻¹⁸	₇	40.1	⁻³⁰	₇	38.0	⁻⁴²	₇	35.1	⁻⁵³	₇	31.4	⁻⁶³	₆	27.1	⁻⁷²	₆	22.1	⁻⁸⁰	₅	16.5	⁻⁸⁷	₅	10.4	⁻⁹³	₄	4.0	⁻⁹⁷	₃	-5.7	⁻¹⁰⁰	₂	-15.7		
Dec 1	42.4	⁻⁶	₆	41.9	⁻¹⁹	₆	40.6	⁻³¹	₆	38.5	⁻⁴²	₆	35.5	⁻⁵³	₆	31.8	⁻⁶⁴	₅	27.4	⁻⁷³	₅	22.3	⁻⁸¹	₄	16.7	⁻⁸⁸	₄	10.6	⁻⁹⁴	₃	4.0	⁻⁹⁹	₃	-5.8	⁻¹⁰²	₂	-15.9		
Dec 2	42.8	⁻⁶	₅	42.4	⁻¹⁹	₅	41.0	⁻³¹	₅	38.9	⁻⁴³	₄	35.9	⁻⁵⁴	₄	32.2	⁻⁶⁴	₄	27.7	⁻⁷³	₄	22.6	⁻⁸²	₃	16.9	⁻⁸⁹	₃	10.7	⁻⁹⁴	₃	4.1	⁻⁹⁹	₂	-5.8	⁻¹⁰³	₁	-16.0		
Dec 3	43.1	⁻⁶	₃	42.7	⁻¹⁹	₃	41.4	⁻³¹	₃	39.2	⁻⁴³	₃	36.2	⁻⁵⁴	₃	32.4	⁻⁶⁵	₃	27.9	⁻⁷⁴	₂	22.7	⁻⁸²	₂	17.0	⁻⁸⁹	₂	10.8	⁻⁹⁵	₂	4.1	⁻¹⁰⁰	₁	-5.9	⁻¹⁰³	₁	-16.2		
Dec 4	43.3	⁻⁶	₁	42.9	⁻¹⁹	₁	41.6	⁻³¹	₁	39.4	⁻⁴³	₁	36.4	⁻⁵⁴	₁	32.6	⁻⁶⁵	₁	28.0	⁻⁷⁴	₁	22.8	⁻⁸³	₁	17.1	⁻⁹⁰	₁	10.8	⁻⁹⁵	₁	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰⁴	₀	-16.2		
Dec 5	43.4	⁻⁶	₀	43.0	⁻¹⁹	₀	41.6	⁻³¹	₀	39.5	⁻⁴³	₀	36.4	⁻⁵⁴	₀	32.6	⁻⁶⁵	₀	28.1	⁻⁷⁴	₀	22.9	⁻⁸³	₀	17.1	⁻⁹⁰	₀	10.8	⁻⁹⁵	₀	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰⁴	₀	-16.3		
Dec 6	43.4	⁻⁶	₋₂	42.9	⁻¹⁹	₋₂	41.6	⁻³¹	₋₂	39.4	⁻⁴³	₋₂	36.4	⁻⁵⁴	₋₂	32.6	⁻⁶⁵	₋₂	28.1	⁻⁷⁴	₋₁	22.9	⁻⁸²	₋₁	17.1	⁻⁸⁹	₋₁	10.8	⁻⁹⁵	₋₁	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.2		
Dec 7	43.3	⁻⁶	₋₃	42.8	⁻¹⁹	₋₃	41.5	⁻³¹	₋₃	39.3	⁻⁴³	₋₃	36.3	⁻⁵⁴	₋₃	32.5	⁻⁶⁴	₋₂	28.0	⁻⁷⁴	₋₂	22.8	⁻⁸²	₋₂	17.0	⁻⁸⁹	₋₂	10.8	⁻⁹⁵	₋₂	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.2		
Dec 8	43.1	⁻⁶	₋₄	42.6	⁻¹⁹	₋₄	41.3	⁻³¹	₋₃	39.1	⁻⁴³	₋₃	36.1	⁻⁵⁴	₋₃	32.4	⁻⁶⁴	₋₃	27.9	⁻⁷³	₋₃	22.7	⁻⁸²	₋₂	17.0	⁻⁸⁹	₋₂	10.7	⁻⁹⁴	₋₂	4.1	⁻⁹⁹	₋₂	-5.9	⁻¹⁰²	₋₁	-16.1		
Dec 9	42.8	⁻⁶	₋₄	42.4	⁻¹⁹	₋₄	41.1	⁻³¹	₋₄	38.9	⁻⁴²	₋₄	35.9	⁻⁵³	₋₄	32.2	⁻⁶⁴	₋₃	27.7	⁻⁷³	₋₃	22.6	⁻⁸¹	₋₃	16.9	⁻⁸⁸	₋₃	10.7	⁻⁹⁴	₋₂	4.1	⁻⁹⁹	₋₂	-5.8	⁻¹⁰²	₋₁	-16.0		
Dec 10	42.5	⁻⁶	₋₄	42.1	⁻¹⁹	₋₄	40.8	⁻³¹	₋₄	38.6	⁻⁴²	₋₄	35.7	⁻⁵³	₋₄	32.0	⁻⁶³	₋₄	27.5	⁻⁷²	₋₃	22.4	⁻⁸¹	₋₃	16.8	⁻⁸⁸	₋₃	10.6	⁻⁹³	₋₂	4.1	⁻⁹⁸	₋₂	-5.8	⁻¹⁰¹	₋₁	-15.9		
Dec 11	42.2	⁻⁶	₋₅	41.8	⁻¹⁸	₋₅	40.5	⁻³⁰	₋₅	38.4	⁻⁴²	₋₄	35.4	⁻⁵³	₋₄	31.7	⁻⁶³	₋₄	27.3	⁻⁷²	₋₄	22.3	⁻⁸⁰	₋₃	16.6	⁻⁸⁷	₋₃	10.5	⁻⁹²	₋₂	4.0	⁻⁹⁷	₋₂	-5.7	⁻¹⁰⁰	₋₁	-15.8		
Dec 12	41.9	⁻⁶	₋₅	41.5	⁻¹⁸	₋₅	40.2	⁻³⁰	₋₅	38.1	⁻⁴¹	₋₅	35.2	⁻⁵²	₋₄	31.5	⁻⁶²	₋₄	27.1	⁻⁷¹	₋₄	22.1	⁻⁷⁹	₋₃	16.5	⁻⁸⁶	₋₃	10.5	⁻⁹²	₋₃	4.0	⁻⁹⁷	₋₂	-5.7	⁻¹⁰⁰	₋₁	-15.7		
Dec 13	41.6	⁻⁶	₋₅	41.1	⁻¹⁸	₋₅	39.9	⁻³⁰	₋₅	37.8	⁻⁴¹	₋₅	34.9	⁻⁵²	₋₅	31.2	⁻⁶²	₋₄	26.9	⁻⁷¹	₋₄	21.9	⁻⁷⁹	₋₄	16.4	⁻⁸⁶	₋₃	10.4	⁻⁹¹	₋₃	4.0	⁻⁹⁶	₋₂	-5.6	⁻⁹⁹	₋₁	-15.6		
Dec 14	41.2	⁻⁶	₋₅	40.8	⁻¹⁸	₋₅	39.5	⁻³⁰	₋₅	37.4	⁻⁴¹	₋₅	34.6	⁻⁵¹	₋₅	31.0	⁻⁶¹	₋₄	26.7	⁻⁷⁰	₋₄	21.7	⁻⁷⁸	₋₄	16.2	⁻⁸⁵	₋₃	10.3	⁻⁹⁰	₋₃	3.9	⁻⁹⁵	₋₂	-5.6	⁻⁹⁸	₋₁	-15.4		
Dec 15	40.9	⁻⁶	₋₅	40.4	⁻¹⁸	₋₅	39.2	⁻²⁹	₋₅	37.1	⁻⁴⁰	₋₅	34.3	⁻⁵¹	₋₅	30.7	⁻⁶¹	₋₄	26.4	⁻⁷⁰	₋₄	21.5	⁻⁷⁷	₋₄	16.1	⁻⁸⁴	₋₃	10.2	⁻⁸⁹	₋₃	3.9	⁻⁹⁴	₋₂	-5.6	⁻⁹⁷	₋₁	-15.3		
Dec 16	40.5	⁻⁶	₋₅	40.1	⁻¹⁸	₋₅	38.8	⁻²⁹	₋₅	36.8	⁻⁴⁰	₋₅	34.0	⁻⁵¹	₋₄	30.4	⁻⁶⁰	₋₄	26.2	⁻⁶⁹	₋₄	21.4	⁻⁷⁷	₋₃	16.0	⁻⁸³	₋₃	10.1	⁻⁸⁹	₋₃	3.9	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₁	-15.2		
Dec 17	40.2	⁻⁶	₋₄	39.7	⁻¹⁷	₋₄	38.5	⁻²⁹	₋₄	36.5	⁻⁴⁰	₋₄	33.7	⁻⁵⁰	₋₄	30.2	⁻⁶⁰	₋₄	26.0	⁻⁶⁸	₋₃	21.2	⁻⁷⁶	₋₃	15.8	⁻⁸³	₋₃	10.0	⁻⁸⁸	₋₂	3.8	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₁	-15.0		
Dec 18	39.9	⁻⁶	₋₄	39.5	⁻¹⁷	₋₃	38.2	⁻²⁹	₋₃	36.2	⁻⁴⁰	₋₃	33.4	⁻⁵⁰	₋₃	30.0	⁻⁵⁹	₋₃	25.8	⁻⁶⁸	₋₃	21.0	⁻⁷⁶	₋₂	15.7	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁵	₋₁	-14.9		
Dec 19	39.6	⁻⁶	₋₂	39.2	⁻¹⁷	₋₂	38.0	⁻²⁹	₋₂	36.0	⁻³⁹	₋₂	33.2	⁻⁵⁰	₋₂	29.8	⁻⁵⁹	₋₂	25.6	⁻⁶⁸	₋₂	20.9	⁻⁷⁵	₋₂	15.6	⁻⁸²	₋₁	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁴	₋₁	-14.8		
Dec 20	39.5	⁻⁶	₋₁	39.1	⁻¹																																		