

2004

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
Jan 1	1	69.5	⁻⁶	₋₄	69.1	⁻¹⁷	₋₄	67.9	⁻²⁹	₋₃	65.9	⁻³⁹	₋₃	63.1	⁻⁵⁰	₋₃	59.6	⁻⁵⁹	₋₃	55.5	⁻⁶⁸	₋₃	50.7	⁻⁷⁵	₋₃	45.4	⁻⁸²	₋₂	39.7	⁻⁸⁷	₋₂	33.6	⁻⁹²	₋₂	24.4	⁻⁹⁵	₋₁	14.9					
Jan 2	2	69.1	⁻⁶	₋₂	68.7	⁻¹⁷	₋₂	67.5	⁻²⁸	₋₂	65.5	⁻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	33.4	⁻⁹¹	₋₁	24.2	⁻⁹⁴	₋₁	14.8					
Jan 3	3	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	⁻⁸⁶	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7					
Jan 4	4	68.8	⁻⁶	₁	68.4	⁻¹⁷	₁	67.2	⁻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	39.3	⁻⁸⁷	₀	33.2	⁻⁹¹	₀	24.1	⁻⁹⁴	₀	14.7					
Jan 5	5	68.9	⁻⁶	₂	68.5	⁻¹⁷	₂	67.3	⁻²⁸	₂	65.3	⁻³⁹	₂	62.5	⁻⁴⁹	₂	59.1	⁻⁵⁹	₂	55.0	⁻⁶⁷	₁	50.3	⁻⁷⁵	₁	45.0	⁻⁸¹	₁	39.3	⁻⁸⁷	₁	33.3	⁻⁹¹	₁	24.1	⁻⁹⁴	₁	14.7					
Jan 6	6	69.1	⁻⁶	₃	68.7	⁻¹⁷	₃	67.5	⁻²⁹	₃	65.5	⁻³⁹	₃	62.7	⁻⁵⁰	₂	59.3	⁻⁵⁹	₂	55.2	⁻⁶⁸	₂	50.4	⁻⁷⁵	₂	45.2	⁻⁸²	₂	39.5	⁻⁸⁷	₁	33.4	⁻⁹²	₁	24.2	⁻⁹⁵	₁	14.8					
Jan 7	7	69.4	⁻⁶	₄	69.0	⁻¹⁷	₃	67.8	⁻²⁹	₃	65.8	⁻⁴⁰	₃	63.1	⁻⁵⁰	₃	59.6	⁻⁵⁹	₃	55.4	⁻⁶⁸	₃	50.7	⁻⁷⁶	₂	45.4	⁻⁸²	₂	39.6	⁻⁸⁸	₂	33.5	⁻⁹²	₁	24.3	⁻⁹⁵	₁	14.9					
Jan 8	8	69.9	⁻⁶	₄	69.5	⁻¹⁸	₄	68.2	⁻²⁹	₄	66.2	⁻⁴⁰	₄	63.4	⁻⁵⁰	₄	59.9	⁻⁶⁰	₃	55.8	⁻⁶⁹	₃	51.0	⁻⁷⁶	₃	45.7	⁻⁸³	₂	39.9	⁻⁸⁸	₂	33.7	⁻⁹³	₂	24.5	⁻⁹⁶	₁	15.0					
Jan 9	9	70.4	⁻⁶	₅	69.9	⁻¹⁸	₅	68.7	⁻²⁹	₄	66.7	⁻⁴⁰	₄	63.9	⁻⁵¹	₄	60.4	⁻⁶⁰	₄	56.1	⁻⁶⁹	₃	51.3	⁻⁷⁷	₃	46.0	⁻⁸³	₃	40.2	⁻⁸⁹	₂	34.0	⁻⁹³	₂	24.7	⁻⁹⁶	₁	15.1					
Jan 10	10	70.9	⁻⁶	₅	70.5	⁻¹⁸	₅	69.2	⁻²⁹	₅	67.2	⁻⁴⁰	₅	64.4	⁻⁵¹	₄	60.8	⁻⁶¹	₄	56.6	⁻⁷⁰	₄	51.7	⁻⁷⁷	₃	46.3	⁻⁸⁴	₃	40.5	⁻⁹⁰	₃	34.2	⁻⁹⁴	₂	24.9	⁻⁹⁷	₁	15.2					
Jan 11	11	71.5	⁻⁶	₅	71.1	⁻¹⁸	₅	69.8	⁻³⁰	₅	67.8	⁻⁴¹	₅	64.9	⁻⁵¹	₅	61.3	⁻⁶¹	₅	57.1	⁻⁷⁰	₄	52.2	⁻⁷⁸	₄	46.7	⁻⁸⁵	₃	40.8	⁻⁹⁰	₃	34.5	⁻⁹⁵	₂	25.1	⁻⁹⁸	₂	15.3					
Jan 12	12	72.2	⁻⁶	₆	71.7	⁻¹⁸	₆	70.5	⁻³⁰	₆	68.4	⁻⁴¹	₅	65.5	⁻⁵²	₅	61.9	⁻⁶²	₅	57.6	⁻⁷¹	₅	52.7	⁻⁷⁹	₄	47.2	⁻⁸⁶	₄	41.2	⁻⁹¹	₃	34.8	⁻⁹⁶	₂	25.3	⁻⁹⁹	₂	15.5					
Jan 13	13	72.9	⁻⁶	₆	72.4	⁻¹⁸	₆	71.2	⁻³⁰	₆	69.1	⁻⁴²	₆	66.2	⁻⁵²	₆	62.5	⁻⁶³	₅	58.2	⁻⁷²	₅	53.2	⁻⁸⁰	₄	47.6	⁻⁸⁷	₄	41.6	⁻⁹²	₃	35.2	⁻⁹⁷	₃	25.5	⁻¹⁰⁰	₂	15.6					
Jan 14	14	73.6	⁻⁶	₆	73.2	⁻¹⁸	₆	71.9	⁻³¹	₆	69.8	⁻⁴²	₆	66.9	⁻⁵³	₆	63.2	⁻⁶³	₅	58.8	⁻⁷²	₅	53.7	⁻⁸⁰	₄	48.1	⁻⁸⁷	₄	42.0	⁻⁹³	₃	35.6	⁻⁹⁸	₃	25.8	⁻¹⁰¹	₂	15.8					
Jan 15	15	74.4	⁻⁶	₆	74.0	⁻¹⁹	₆	72.7	⁻³¹	₆	70.5	⁻⁴³	₆	67.6	⁻⁵⁴	₆	63.8	⁻⁶⁴	₅	59.4	⁻⁷³	₅	54.3	⁻⁸¹	₄	48.6	⁻⁸⁸	₄	42.5	⁻⁹⁴	₃	35.9	⁻⁹⁹	₃	26.1	⁻¹⁰²	₂	15.9					
Jan 16	16	75.2	⁻⁶	₆	74.7	⁻¹⁹	₆	73.4	⁻³¹	₆	71.2	⁻⁴³	₅	68.3	⁻⁵⁴	₅	64.5	⁻⁶⁴	₅	60.0	⁻⁷⁴	₅	54.9	⁻⁸²	₄	49.1	⁻⁸⁹	₄	42.9	⁻⁹⁵	₃	36.3	⁻¹⁰⁰	₂	26.4	⁻¹⁰³	₂	16.1					
Jan 17	17	75.9	⁻⁶	₅	75.4	⁻¹⁹	₅	74.1	⁻³¹	₅	71.9	⁻⁴³	₄	68.9	⁻⁵⁵	₄	65.1	⁻⁶⁵	₄	60.6	⁻⁷⁴	₄	55.4	⁻⁸³	₃	49.6	⁻⁹⁰	₃	43.3	⁻⁹⁶	₃	36.6	⁻¹⁰¹	₂	26.6	⁻¹⁰⁴	₁	16.2					
Jan 18	18	76.5	⁻⁶	₃	76.0	⁻¹⁹	₃	74.7	⁻³²	₃	72.5	⁻⁴⁴	₃	69.4	⁻⁵⁵	₃	65.6	⁻⁶⁵	₃	61.0	⁻⁷⁵	₂	55.8	⁻⁸³	₂	50.0	⁻⁹¹	₂	43.6	⁻⁹⁶	₂	36.9	⁻¹⁰¹	₁	26.8	⁻¹⁰⁵	₁	16.4					
Jan 19	19	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	⁻⁸⁴	₁	50.2	⁻⁹¹	₀	43.9	⁻⁹⁷	₀	37.1	⁻¹⁰²	₀	26.9	⁻¹⁰⁵	₀	16.4					
Jan 20	20	76.9	⁻⁶	₋₂	76.5	⁻¹⁹	₋₂	75.1	⁻³²	₋₂	72.9	⁻⁴⁴	₋₂	69.8	⁻⁵⁵	₋₂	66.0	⁻⁶⁶	₋₂	61.4	⁻⁷⁵	₋₁	56.1	⁻⁸⁴	₋₁	50.3	⁻⁹¹	₋₁	43.9	⁻⁹⁷	₋₁	37.1	⁻¹⁰²	₋₁	27.0	⁻¹⁰⁵	₋₁	16.5					
Jan 21	21	76.7	⁻⁶	₋₄	76.2	⁻¹⁹	₋₄	74.9	⁻³²	₋₄	72.7	⁻⁴³	₋₄	69.6	⁻⁵⁵	₋₄	65.8	⁻⁶⁵	₋₄	61.2	⁻⁷⁵	₋₃	56.0	⁻⁸³	₋₃	50.1	⁻⁹⁰	₋₃	43.8	⁻⁹⁶	₋₂	37.0	⁻¹⁰¹	₋₂	26.9	⁻¹⁰⁴	₋₁	16.4					
Jan 22	22	76.2	⁻⁶	₋₇	75.7	⁻¹⁹	₋₇	74.4	⁻³¹	₋₆	72.2	⁻⁴³	₋₆	69.1	⁻⁵⁴	₋₆	65.3	⁻⁶⁵	₋₆	60.8	⁻⁷⁴	₋₅	55.6	⁻⁸²	₋₅	49.8	⁻⁸⁹	₋₄	43.5	⁻⁹⁵	₋₄	36.8	⁻¹⁰⁰	₋₃	26.7	⁻¹⁰³	₋₂	16.3					
Jan 23	23	75.3	⁻⁶	₋₈	74.9	⁻¹⁹	₋₈	73.6	⁻³¹	₋₈	71.4	⁻⁴³	₋₈	68.4	⁻⁵⁴	₋₇	64.6	⁻⁶⁴	₋₇	60.1	⁻⁷³	₋₆	55.0	⁻⁸¹	₋₆	49.2	⁻⁸⁸	₋₅	43.0	⁻⁹⁴	₋₄	36.4	⁻⁹⁹	₋₃	26.4	⁻¹⁰²	₋₂	16.1					
Jan 24	24	74.4	⁻⁶	₋₉	73.9	⁻¹⁸	₋₉	72.6	⁻³⁰	₋₉	70.5	⁻⁴²	₋₈	67.5	⁻⁵³	₋₈	63.8	⁻⁶³	₋₈	59.3	⁻⁷²	₋₇	54.3	⁻⁸⁰	₋₆	48.6	⁻⁸⁷	₋₆	42.4	⁻⁹³	₋₅	35.9	⁻⁹⁸	₋₄	26.1	⁻¹⁰¹	₋₃	15.9					
Jan 25	25	73.3	⁻⁶	₋₉	72.8	⁻¹⁸	₋₉	71.6	⁻³⁰	₋₉	69.4	⁻⁴¹	₋₈	66.5	⁻⁵²	₋₈	62.8	⁻⁶²	₋₈	58.5	⁻⁷¹	₋₇	53.5	⁻⁷⁹	₋₆	47.9	⁻⁸⁶	₋₆	41.8	⁻⁹¹	₋₅	35.4	⁻⁹⁶	₋₄	25.7	⁻⁹⁹	₋₃	15.7					
Jan 26	26	72.2	⁻⁶	₋₈	71.7	⁻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	₋₃	25.3	⁻⁹⁸	₋₂	15.5					
Jan 27	27	71.2	⁻⁶	₋₇	70.7	⁻¹⁸	₋₇	69.5	⁻²⁹	₋₇	67.4	⁻⁴⁰	₋₇	64.6	⁻⁵¹	₋₆	61.0	⁻⁶⁰	₋₆	56.8	⁻⁶⁹	₋₅	51.9	⁻⁷⁷	₋₅	46.5	⁻⁸⁴	₋₄	40.6	⁻⁸⁹	₋₄	34.4	⁻⁹⁴	₋₃	24.9	⁻⁹⁷	₋₂	15.2					
Jan 28	28	70.3	⁻⁶	₋₆	69.9	⁻¹⁷	₋₅	68.7	⁻²⁹	₋₅	66.6	⁻⁴⁰	₋₅	63.8	⁻⁵⁰	₋₅	60.3	⁻⁶⁰	₋₅	56.1	⁻⁶⁸	₋₄	51.3	⁻⁷⁶	₋₄	45.9	⁻⁸³	₋₃	40.1	⁻⁸⁸	₋₃	34.0	⁻⁹³	₋₂	24.6	⁻⁹⁵	₋₂	15.1					
Jan 29	29	69.6	⁻⁶	₋₄	69.2	⁻¹⁷	₋₄	68.0	⁻²⁹	₋₄	66.0	⁻³⁹	₋₃	63.2	⁻⁵⁰	₋₃	59.7	⁻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 30	30	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	₋₁	50.5	⁻⁷⁵	₋₁	45.2	⁻⁸²	₋₁	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.3	⁻⁹⁴	₋₁	14.8					
Jan 31	31	69.0	⁻⁶	₀	68.6	⁻¹⁷	₀	67.3	⁻²⁸	₀	65.4	⁻³⁹	₀																														

2004

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
Jan 1	1	39.7 ⁻⁶	-4	39.3 ⁻¹⁷	-4	38.1 ⁻²⁹	-3	36.1 ⁻³⁹	-3	33.3 ⁻⁵⁰	-3	29.9 ⁻⁵⁹	-3	25.7 ⁻⁶⁸	-3	20.9 ⁻⁷⁵	-3	15.7 ⁻⁸²	-2	9.9 ⁻⁸⁷	-2	3.8 ⁻⁹²	-2	-5.4 ⁻⁹⁵	-1	-14.9		
Jan 2	2	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	9.9 ⁻⁸⁷	-1	3.8 ⁻⁹¹	-1	-5.4 ⁻⁹⁴	-1	-14.8		
Jan 3	3	39.3 ⁻⁶	0	38.9 ⁻¹⁷	0	37.7 ⁻²⁸	0	35.8 ⁻³⁹	0	33.0 ⁻⁴⁹	0	29.6 ⁻⁵⁹	0	25.5 ⁻⁶⁷	0	20.7 ⁻⁷⁵	0	15.5 ⁻⁸¹	0	9.8 ⁻⁸⁶	0	3.8 ⁻⁹¹	0	-5.3 ⁻⁹⁴	0	-14.7		
Jan 4	4	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	0	3.8 ⁻⁹¹	0	-5.3 ⁻⁹⁴	0	-14.7		
Jan 5	5	39.4 ⁻⁶	2	39.0 ⁻¹⁷	2	37.8 ⁻²⁸	2	35.8 ⁻³⁹	2	33.0 ⁻⁴⁹	2	29.6 ⁻⁵⁹	2	25.5 ⁻⁶⁷	1	20.8 ⁻⁷⁵	1	15.5 ⁻⁸¹	1	9.8 ⁻⁸⁷	1	3.8 ⁻⁹¹	1	-5.3 ⁻⁹⁴	1	-14.7		
Jan 6	6	39.5 ⁻⁶	3	39.1 ⁻¹⁷	3	37.9 ⁻²⁹	3	35.9 ⁻³⁹	3	33.1 ⁻⁵⁰	2	29.7 ⁻⁵⁹	2	25.6 ⁻⁶⁸	2	20.8 ⁻⁷⁵	2	15.6 ⁻⁸²	2	9.9 ⁻⁸⁷	1	3.8 ⁻⁹²	1	-5.4 ⁻⁹⁵	1	-14.8		
Jan 7	7	39.7 ⁻⁶	4	39.3 ⁻¹⁷	3	38.1 ⁻²⁹	3	36.1 ⁻⁴⁰	3	33.3 ⁻⁵⁰	3	29.8 ⁻⁵⁹	3	25.7 ⁻⁶⁸	3	20.9 ⁻⁷⁶	2	15.6 ⁻⁸²	2	9.9 ⁻⁸⁸	2	3.8 ⁻⁹²	1	-5.4 ⁻⁹⁵	1	-14.9		
Jan 8	8	39.9 ⁻⁶	4	39.5 ⁻¹⁸	4	38.3 ⁻²⁹	4	36.3 ⁻⁴⁰	4	33.5 ⁻⁵⁰	4	30.0 ⁻⁶⁰	3	25.8 ⁻⁶⁹	3	21.1 ⁻⁷⁶	3	15.7 ⁻⁸³	2	10.0 ⁻⁸⁸	2	3.8 ⁻⁹³	2	-5.4 ⁻⁹⁶	1	-15.0		
Jan 9	9	40.2 ⁻⁶	5	39.8 ⁻¹⁸	5	38.6 ⁻²⁹	4	36.5 ⁻⁴⁰	4	33.7 ⁻⁵¹	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	-15.1		
Jan 10	10	40.5 ⁻⁶	5	40.1 ⁻¹⁸	5	38.9 ⁻²⁹	5	36.8 ⁻⁴⁰	5	34.0 ⁻⁵¹	4	30.5 ⁻⁶¹	4	26.2 ⁻⁷⁰	4	21.4 ⁻⁷⁷	3	16.0 ⁻⁸⁴	3	10.1 ⁻⁹⁰	3	3.9 ⁻⁹⁴	2	-5.5 ⁻⁹⁷	1	-15.2		
Jan 11	11	40.9 ⁻⁶	5	40.5 ⁻¹⁸	5	39.2 ⁻³⁰	5	37.1 ⁻⁴¹	5	34.3 ⁻⁵¹	5	30.7 ⁻⁶¹	5	26.4 ⁻⁷⁰	4	21.6 ⁻⁷⁸	4	16.1 ⁻⁸⁵	3	10.2 ⁻⁹⁰	3	3.9 ⁻⁹⁵	2	-5.6 ⁻⁹⁸	2	-15.3		
Jan 12	12	41.3 ⁻⁶	6	40.8 ⁻¹⁸	6	39.6 ⁻³⁰	5	37.5 ⁻⁴¹	5	34.6 ⁻⁵²	5	31.0 ⁻⁶²	5	26.7 ⁻⁷¹	5	21.7 ⁻⁷⁹	4	16.3 ⁻⁸⁶	4	10.3 ⁻⁹¹	3	3.9 ⁻⁹⁶	2	-5.6 ⁻⁹⁹	2	-15.5		
Jan 13	13	41.7 ⁻⁶	6	41.2 ⁻¹⁸	6	40.0 ⁻³⁰	6	37.9 ⁻⁴²	6	35.0 ⁻⁵²	6	31.3 ⁻⁶³	5	26.9 ⁻⁷²	5	22.0 ⁻⁸⁰	4	16.4 ⁻⁸⁷	4	10.4 ⁻⁹²	3	4.0 ⁻⁹⁷	3	-5.7 ⁻¹⁰⁰	2	-15.6		
Jan 14	14	42.1 ⁻⁶	6	41.7 ⁻¹⁸	6	40.4 ⁻³¹	6	38.2 ⁻⁴²	6	35.3 ⁻⁵³	6	31.6 ⁻⁶³	5	27.2 ⁻⁷²	5	22.2 ⁻⁸⁰	4	16.6 ⁻⁸⁷	4	10.5 ⁻⁹³	3	4.0 ⁻⁹⁸	3	-5.7 ⁻¹⁰¹	2	-15.8		
Jan 15	15	42.5 ⁻⁶	6	42.1 ⁻¹⁹	6	40.8 ⁻³¹	6	38.7 ⁻⁴³	6	35.7 ⁻⁵⁴	6	32.0 ⁻⁶⁴	5	27.5 ⁻⁷³	5	22.4 ⁻⁸¹	4	16.8 ⁻⁸⁸	4	10.6 ⁻⁹⁴	3	4.1 ⁻⁹⁹	3	-5.8 ⁻¹⁰²	2	-15.9		
Jan 16	16	43.0 ⁻⁶	6	42.5 ⁻¹⁹	6	41.2 ⁻³¹	6	39.1 ⁻⁴³	5	36.1 ⁻⁵⁴	5	32.3 ⁻⁶⁴	5	27.8 ⁻⁷⁴	5	22.7 ⁻⁸²	4	16.9 ⁻⁸⁹	4	10.7 ⁻⁹⁵	3	4.1 ⁻¹⁰⁰	2	-5.8 ⁻¹⁰³	2	-16.1		
Jan 17	17	43.4 ⁻⁶	5	42.9 ⁻¹⁹	5	41.6 ⁻³¹	5	39.4 ⁻⁴³	4	36.4 ⁻⁵⁵	4	32.6 ⁻⁶⁵	4	28.1 ⁻⁷⁴	4	22.9 ⁻⁸³	3	17.1 ⁻⁹⁰	3	10.8 ⁻⁹⁶	3	4.1 ⁻¹⁰¹	2	-5.9 ⁻¹⁰⁴	1	-16.2		
Jan 18	18	43.7 ⁻⁶	3	43.3 ⁻¹⁹	3	41.9 ⁻³²	3	39.7 ⁻⁴⁴	3	36.7 ⁻⁵⁵	3	32.8 ⁻⁶⁵	3	28.3 ⁻⁷⁵	2	23.0 ⁻⁸³	2	17.2 ⁻⁹¹	2	10.9 ⁻⁹⁶	2	4.2 ⁻¹⁰¹	1	-5.9 ⁻¹⁰⁵	1	-16.4		
Jan 19	19	43.9 ⁻⁶	1	43.5 ⁻¹⁹	1	42.1 ⁻³²	1	39.9 ⁻⁴⁴	1	36.9 ⁻⁵⁵	1	33.0 ⁻⁶⁶	1	28.4 ⁻⁷⁵	1	23.2 ⁻⁸⁴	1	17.3 ⁻⁹¹	0	11.0 ⁻⁹⁷	0	4.2 ⁻¹⁰²	0	-6.0 ⁻¹⁰⁵	0	-16.4		
Jan 20	20	44.0 ⁻⁶	-2	43.5 ⁻¹⁹	-2	42.2 ⁻³²	-2	40.0 ⁻⁴⁴	-2	36.9 ⁻⁵⁵	-2	33.0 ⁻⁶⁶	-2	28.4 ⁻⁷⁵	-1	23.2 ⁻⁸⁴	-1	17.3 ⁻⁹¹	-1	11.0 ⁻⁹⁷	-1	4.2 ⁻¹⁰²	-1	-6.0 ⁻¹⁰⁵	-1	-16.5		
Jan 21	21	43.8 ⁻⁶	-4	43.4 ⁻¹⁹	-4	42.1 ⁻³²	-4	39.8 ⁻⁴³	-4	36.8 ⁻⁵⁵	-4	32.9 ⁻⁶⁵	-4	28.4 ⁻⁷⁵	-3	23.1 ⁻⁸³	-3	17.3 ⁻⁹⁰	-3	10.9 ⁻⁹⁶	-2	4.2 ⁻¹⁰¹	-2	-6.0 ⁻¹⁰⁴	-1	-16.4		
Jan 22	22	43.5 ⁻⁶	-7	43.1 ⁻¹⁹	-7	41.8 ⁻³¹	-6	39.6 ⁻⁴³	-6	36.5 ⁻⁵⁴	-6	32.7 ⁻⁶⁵	-6	28.2 ⁻⁷⁴	-5	23.0 ⁻⁸²	-5	17.2 ⁻⁸⁹	-4	10.9 ⁻⁹⁵	-4	4.2 ⁻¹⁰⁰	-3	-5.9 ⁻¹⁰³	-2	-16.3		
Jan 23	23	43.1 ⁻⁶	-8	42.6 ⁻¹⁹	-8	41.3 ⁻³¹	-8	39.1 ⁻⁴³	-8	36.1 ⁻⁵⁴	-7	32.4 ⁻⁶⁴	-7	27.9 ⁻⁷³	-6	22.7 ⁻⁸¹	-6	17.0 ⁻⁸⁸	-5	10.7 ⁻⁹⁴	-4	4.1 ⁻⁹⁹	-3	-5.9 ⁻¹⁰²	-2	-16.1		
Jan 24	24	42.5 ⁻⁶	-9	42.1 ⁻¹⁸	-9	40.8 ⁻³⁰	-9	38.6 ⁻⁴²	-8	35.7 ⁻⁵³	-8	31.9 ⁻⁶³	-8	27.5 ⁻⁷²	-7	22.4 ⁻⁸⁰	-6	16.8 ⁻⁸⁷	-6	10.6 ⁻⁹³	-5	4.1 ⁻⁹⁸	-4	-5.8 ⁻¹⁰¹	-3	-15.9		
Jan 25	25	41.9 ⁻⁶	-9	41.5 ⁻¹⁸	-9	40.2 ⁻³⁰	-8	38.1 ⁻⁴¹	-8	35.1 ⁻⁵²	-8	31.5 ⁻⁶²	-8	27.1 ⁻⁷¹	-7	22.1 ⁻⁷⁹	-6	16.5 ⁻⁸⁶	-6	10.4 ⁻⁹¹	-5	4.0 ⁻⁹⁶	-4	-5.7 ⁻⁹⁹	-3	-15.7		
Jan 26	26	41.3 ⁻⁶	-8	40.8 ⁻¹⁸	-8	39.6 ⁻³⁰	-8	37.5 ⁻⁴¹	-8	34.6 ⁻⁵¹	-7	31.0 ⁻⁶¹	-7	26.7 ⁻⁷⁰	-6	21.8 ⁻⁷⁸	-6	16.3 ⁻⁸⁵	-5	10.3 ⁻⁹⁰	-4	3.9 ⁻⁹⁵	-3	-5.6 ⁻⁹⁸	-2	-15.5		
Jan 27	27	40.7 ⁻⁶	-7	40.3 ⁻¹⁸	-7	39.0 ⁻²⁹	-7	37.0 ⁻⁴⁰	-7	34.1 ⁻⁵¹	-6	30.6 ⁻⁶⁰	-6	26.3 ⁻⁶⁹	-5	21.4 ⁻⁷⁷	-5	16.0 ⁻⁸⁴	-4	10.1 ⁻⁸⁹	-4	3.9 ⁻⁹⁴	-3	-5.5 ⁻⁹⁷	-2	-15.2		
Jan 28	28	40.2 ⁻⁶	-6	39.8 ⁻¹⁷	-5	38.6 ⁻²⁹	-5	36.5 ⁻⁴⁰	-5	33.7 ⁻⁵⁰	-5	30.2 ⁻⁶⁰	-5	26.0 ⁻⁶⁸	-4	21.2 ⁻⁷⁶	-4	15.8 ⁻⁸³	-3	10.0 ⁻⁸⁸	-3	3.8 ⁻⁹³	-2	-5.5 ⁻⁹⁵	-2	-15.1		
Jan 29	29	39.8 ⁻⁶	-4	39.4 ⁻¹⁷	-4	38.2 ⁻²⁹	-4	36.2 ⁻³⁹	-3	33.4 ⁻⁵⁰	-3	29.9 ⁻⁵⁹	-3	25.8 ⁻⁶⁸	-3	21.0 ⁻⁷⁵	-3	15.7 ⁻⁸²	-2	9.9 ⁻⁸⁷	-2	3.8 ⁻⁹²	-2	-5.4 ⁻⁹⁵	-1	-14.9		
Jan 30	30	39.6 ⁻⁶	-2	39.1 ⁻¹⁷	-2	37.9 ⁻²⁸	-2	35.9 ⁻³⁹	-2	33.2 ⁻⁴⁹	-2	29.7 ⁻⁵⁹	-2	25.6 ⁻⁶⁸	-1	20.9 ⁻⁷⁵	-1	15.6 ⁻⁸²	-1	9.9 ⁻⁸⁷	-1	3.8 ⁻⁹¹	-1	-5.4 ⁻⁹⁴	-1	-14.8		
Jan 31	31	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 ⁻⁸¹	0	9.8 ⁻⁸⁷	0	3.8 ⁻⁹¹	0	-5.4 ⁻⁹⁴	0	-14.8		
Feb 1	1	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 ⁻⁸²	1	9.8 ⁻⁸⁷	1	3.8 ⁻⁹¹	1	-5.4 ⁻⁹⁴	0	-14.8		
Feb 2	2	39.5 ⁻⁶	3	39.1 ⁻¹⁷	3	37.9 ⁻²⁹	3	35.9 ⁻³⁹	3	33.2 ⁻⁵⁰	3	29.7 ⁻⁵⁹	2	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		
Feb 3	3	39.7 ⁻⁶	4	39.3 ⁻¹⁷	4	38.1 ⁻²⁹	4	36.1 ⁻⁴⁰	4	33.3 ⁻⁵⁰	4	29.8 ⁻⁵⁹	3	25.7 ⁻⁶⁸	3	20.9 ⁻⁷⁶	3	15.6 ⁻⁸²	2	9.9 ⁻⁸⁸	2	3.8 ⁻⁹²	2	-5.4 ⁻⁹⁵	1	-14.9		
Feb 4	4	40.0 ⁻⁶	5	39.6 ⁻¹⁸	5	38.4 ⁻²⁹	5	36.3 ⁻⁴⁰	4	33.6 ⁻⁵⁰	4	30.0 ⁻⁶⁰	4	25.9 ⁻⁶⁹	4	21.1 ⁻⁷⁶	3	15.8 ⁻⁸³	3	10.0 ⁻⁸⁸	3	3.8 ⁻⁹³	2	-5.4 ⁻⁹⁶	1	-15.0		
Feb 5	5	40.3 ⁻⁶	5	39.9 ⁻¹⁸	5	38.7 ⁻²⁹	5	36.6 ⁻⁴⁰	5	33.8 ⁻⁵¹	5	30.3 ⁻⁶⁰	4	26.1 ⁻⁶⁹	4	21.3 ⁻⁷⁷	4	15.9 ⁻⁸⁴	3	10.1 ⁻⁸⁹	3	3.9 ⁻⁹⁴	2	-5.5 ⁻⁹⁷	1	-15.1		
Feb 6	6	40.7 ⁻⁶	5	40.3 ⁻¹⁸	5	39.0 ⁻²⁹	5	37.0 ⁻⁴¹	5	34.1 ⁻⁵¹	5	30.6 ⁻⁶¹	5	26.3 ⁻⁷⁰	4	21.4 ⁻⁷⁸	4	16.0 ⁻⁸⁴	3	10.1 ⁻⁹⁰	3	3.9 ⁻⁹⁵	2	-5.5 ⁻⁹⁸	2	-15.2		
Feb 7	7	41.1 ⁻⁶	5	40.6 ⁻¹⁸	5	39.4 ⁻³⁰	5	37.3 ⁻⁴¹	5	34.4 ⁻⁵²	5	30.8 ⁻⁶²	4	26.6 ⁻⁷¹	4	21.6 ⁻⁷⁸	4	16.2 ⁻⁸⁵	3	10.2 ⁻⁹¹	3	3.9 ⁻⁹⁵	2	-5.6 ⁻⁹⁸	2	-15.4		
Feb 8	8	41.4 ⁻⁶	5	41.0 ⁻¹⁸	5	39.7 ⁻³⁰	5	37.6 ⁻⁴¹	5	34.8 ⁻⁵²	5	31.1 ⁻⁶²	4	26.8 ⁻⁷¹	4	21.8 ⁻⁷⁹	4	16.3 ⁻⁸⁶	3	10.3 ⁻⁹¹	3	4.0 ⁻⁹⁶	2	-5.6 ⁻⁹⁹	1	-15.5		
Feb 9	9	41.8 ⁻⁶	5	41.3 ⁻¹⁸	5	40.1 ⁻³⁰	5	38.0 ⁻⁴²	4	35.1 ⁻⁵³	4	31.4 ⁻⁶³	4	27.0 ⁻⁷²	4	22.0 ⁻⁸⁰	3	16.5 ⁻⁸⁷	3	10.4 ⁻⁹²	3	4.0 ⁻⁹⁷	2	-5.7 ⁻¹⁰⁰	1	-15.6		
Feb 10	10	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		
Feb 11	11	42.4 ⁻⁶	4	42.0 ⁻¹⁹																								

2004

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
Feb 16	75.8	⁻⁶	₀	75.3	⁻¹⁹	₀	74.0	⁻³¹	₀	71.8	⁻⁴³	₀	68.8	⁻⁵⁴	₀	65.0	⁻⁶⁵	₀	60.5	⁻⁷⁴	₀	55.3	⁻⁸²	₀	49.5	⁻⁸⁹	₀	43.2	⁻⁹⁵	₀	36.6	⁻¹⁰⁰	₀	26.6	⁻¹⁰³	₀	16.2					
Feb 17	75.7	⁻⁶	₋₂	75.3	⁻¹⁹	₋₂	74.0	⁻³¹	₋₂	71.8	⁻⁴³	₋₂	68.8	⁻⁵⁴	₋₂	65.0	⁻⁶⁵	₋₂	60.4	⁻⁷⁴	₋₁	55.3	⁻⁸²	₋₁	49.5	⁻⁸⁹	₋₁	43.2	⁻⁹⁵	₋₁	36.6	⁻¹⁰⁰	₋₁	26.5	⁻¹⁰³	₋₁	16.2					
Feb 18	75.5	⁻⁶	₋₃	75.1	⁻¹⁹	₋₃	73.7	⁻³¹	₋₃	71.6	⁻⁴³	₋₃	68.6	⁻⁵⁴	₋₃	64.8	⁻⁶⁴	₋₃	60.3	⁻⁷⁴	₋₃	55.1	⁻⁸²	₋₂	49.3	⁻⁸⁹	₋₂	43.1	⁻⁹⁵	₋₂	36.5	⁻¹⁰⁰	₋₁	26.5	⁻¹⁰³	₋₁	16.2					
Feb 19	75.1	⁻⁶	₋₅	74.6	⁻¹⁹	₋₅	73.3	⁻³¹	₋₅	71.2	⁻⁴³	₋₅	68.2	⁻⁵⁴	₋₅	64.4	⁻⁶⁴	₋₄	59.9	⁻⁷³	₋₄	54.8	⁻⁸¹	₋₄	49.1	⁻⁸⁸	₋₃	42.9	⁻⁹⁴	₋₃	36.3	⁻⁹⁹	₋₂	26.3	⁻¹⁰²	₋₁	16.1					
Feb 20	74.5	⁻⁶	₋₆	74.0	⁻¹⁹	₋₆	72.7	⁻³¹	₋₆	70.6	⁻⁴²	₋₆	67.6	⁻⁵³	₋₆	63.9	⁻⁶³	₋₅	59.4	⁻⁷²	₋₅	54.3	⁻⁸¹	₋₄	48.7	⁻⁸⁷	₋₄	42.5	⁻⁹³	₋₃	36.0	⁻⁹⁸	₋₃	26.1	⁻¹⁰¹	₋₂	15.9					
Feb 21	73.7	⁻⁶	₋₇	73.3	⁻¹⁸	₋₇	72.0	⁻³⁰	₋₇	69.9	⁻⁴²	₋₇	66.9	⁻⁵²	₋₆	63.2	⁻⁶³	₋₆	58.8	⁻⁷²	₋₆	53.8	⁻⁸⁰	₋₅	48.2	⁻⁸⁷	₋₄	42.1	⁻⁹²	₋₄	35.6	⁻⁹⁷	₋₃	25.8	⁻¹⁰⁰	₋₂	15.8					
Feb 22	72.8	⁻⁶	₋₈	72.4	⁻¹⁸	₋₇	71.1	⁻³⁰	₋₇	69.0	⁻⁴¹	₋₇	66.1	⁻⁵²	₋₇	62.5	⁻⁶²	₋₆	58.1	⁻⁷¹	₋₆	53.1	⁻⁷⁹	₋₅	47.6	⁻⁸⁵	₋₅	41.6	⁻⁹¹	₋₄	35.2	⁻⁹⁶	₋₃	25.5	⁻⁹⁹	₋₂	15.6					
Feb 23	71.9	⁻⁶	₋₇	71.5	⁻¹⁸	₋₇	70.2	⁻²⁹	₋₇	68.2	⁻⁴¹	₋₇	65.3	⁻⁵¹	₋₆	61.7	⁻⁶¹	₋₆	57.4	⁻⁷⁰	₋₆	52.5	⁻⁷⁸	₋₅	47.0	⁻⁸⁴	₋₄	41.1	⁻⁹⁰	₋₄	34.7	⁻⁹⁵	₋₃	25.2	⁻⁹⁸	₋₂	15.4					
Feb 24	71.1	⁻⁶	₋₆	70.6	⁻¹⁸	₋₆	69.4	⁻²⁹	₋₆	67.3	⁻⁴⁰	₋₆	64.5	⁻⁵¹	₋₆	61.0	⁻⁶⁰	₋₅	56.7	⁻⁶⁹	₋₅	51.9	⁻⁷⁷	₋₄	46.4	⁻⁸³	₋₄	40.6	⁻⁸⁹	₋₃	34.3	⁻⁹⁴	₋₃	24.9	⁻⁹⁶	₋₂	15.2					
Feb 25	70.3	⁻⁶	₋₅	69.9	⁻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	15.1					
Feb 26	69.7	⁻⁶	₋₄	69.3	⁻¹⁷	₋₃	68.0	⁻²⁹	₋₃	66.0	⁻³⁹	₋₃	63.3	⁻⁵⁰	₋₃	59.8	⁻⁵⁹	₋₃	55.6	⁻⁶⁸	₋₃	50.8	⁻⁷⁶	₋₂	45.5	⁻⁸²	₋₂	39.8	⁻⁸⁷	₋₂	33.6	⁻⁹²	₋₁	24.4	⁻⁹⁵	₋₁	14.9					
Feb 27	69.2	⁻⁶	₋₂	68.8	⁻¹⁷	₋₂	67.6	⁻²⁹	₋₂	65.6	⁻³⁹	₋₂	62.9	⁻⁵⁰	₋₂	59.4	⁻⁵⁹	₋₁	55.3	⁻⁶⁸	₋₁	50.5	⁻⁷⁵	₋₁	45.3	⁻⁸²	₋₁	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.3	⁻⁹⁴	₀	14.8					
Feb 28	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					
Feb 29	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	⁻⁹²	₁	24.2	⁻⁹⁴	₁	14.8					
Mar 1	69.3	⁻⁶	₄	68.9	⁻¹⁷	₄	67.7	⁻²⁹	₃	65.7	⁻⁴⁰	₃	62.9	⁻⁵⁰	₃	59.4	⁻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 2	69.7	⁻⁶	₅	69.3	⁻¹⁷	₅	68.1	⁻²⁹	₅	66.1	⁻⁴⁰	₅	63.3	⁻⁵⁰	₄	59.8	⁻⁶⁰	₄	55.6	⁻⁶⁸	₄	50.9	⁻⁷⁶	₄	45.6	⁻⁸³	₃	39.8	⁻⁸⁸	₃	33.7	⁻⁹³	₂	24.4	⁻⁹⁶	₁	14.9					
Mar 3	70.3	⁻⁶	₆	69.9	⁻¹⁸	₆	68.7	⁻²⁹	₆	66.7	⁻⁴⁰	₆	63.9	⁻⁵¹	₅	60.3	⁻⁶⁰	₅	56.1	⁻⁶⁹	₅	51.3	⁻⁷⁷	₄	46.0	⁻⁸³	₄	40.1	⁻⁸⁹	₃	34.0	⁻⁹⁴	₃	24.7	⁻⁹⁶	₂	15.1					
Mar 4	71.1	⁻⁶	₇	70.7	⁻¹⁸	₇	69.4	⁻²⁹	₇	67.4	⁻⁴¹	₆	64.5	⁻⁵¹	₆	61.0	⁻⁶¹	₆	56.7	⁻⁷⁰	₅	51.9	⁻⁷⁸	₅	46.4	⁻⁸⁴	₄	40.6	⁻⁹⁰	₄	34.3	⁻⁹⁵	₃	24.9	⁻⁹⁸	₂	15.2					
Mar 5	71.9	⁻⁶	₇	71.5	⁻¹⁸	₇	70.2	⁻³⁰	₇	68.1	⁻⁴¹	₆	65.3	⁻⁵²	₆	61.7	⁻⁶²	₆	57.4	⁻⁷¹	₅	52.5	⁻⁷⁹	₅	47.0	⁻⁸⁵	₄	41.0	⁻⁹¹	₄	34.7	⁻⁹⁶	₃	25.2	⁻⁹⁹	₂	15.4					
Mar 6	72.7	⁻⁶	₇	72.3	⁻¹⁸	₇	71.0	⁻³⁰	₆	68.9	⁻⁴²	₆	66.0	⁻⁵²	₆	62.4	⁻⁶²	₆	58.0	⁻⁷¹	₅	53.1	⁻⁸⁰	₅	47.5	⁻⁸⁶	₄	41.5	⁻⁹²	₄	35.1	⁻⁹⁷	₃	25.5	⁻¹⁰⁰	₂	15.6					
Mar 7	73.5	⁻⁶	₆	73.1	⁻¹⁸	₆	71.8	⁻³⁰	₆	69.7	⁻⁴²	₅	66.8	⁻⁵³	₅	63.1	⁻⁶³	₅	58.7	⁻⁷²	₄	53.6	⁻⁸⁰	₄	48.1	⁻⁸⁷	₄	42.0	⁻⁹³	₃	35.5	⁻⁹⁸	₂	25.8	⁻¹⁰¹	₂	15.7					
Mar 8	74.2	⁻⁶	₅	73.8	⁻¹⁹	₅	72.5	⁻³¹	₅	70.3	⁻⁴²	₄	67.4	⁻⁵³	₄	63.7	⁻⁶⁴	₄	59.2	⁻⁷³	₄	54.2	⁻⁸¹	₃	48.5	⁻⁸⁸	₃	42.4	⁻⁹⁴	₂	35.8	⁻⁹⁹	₂	26.0	⁻¹⁰²	₁	15.9					
Mar 9	74.8	⁻⁶	₃	74.3	⁻¹⁹	₃	73.0	⁻³¹	₃	70.9	⁻⁴³	₃	67.9	⁻⁵⁴	₃	64.2	⁻⁶⁴	₃	59.7	⁻⁷³	₃	54.6	⁻⁸²	₂	48.9	⁻⁸⁹	₂	42.7	⁻⁹⁴	₂	36.1	⁻⁹⁹	₁	26.2	⁻¹⁰²	₁	16.0					
Mar 10	75.2	⁻⁶	₂	74.7	⁻¹⁹	₂	73.4	⁻³¹	₂	71.3	⁻⁴³	₂	68.3	⁻⁵⁴	₂	64.5	⁻⁶⁴	₂	60.0	⁻⁷⁴	₂	54.9	⁻⁸²	₁	49.1	⁻⁸⁹	₁	42.9	⁻⁹⁵	₁	36.3	⁻¹⁰⁰	₁	26.4	⁻¹⁰³	₁	16.1					
Mar 11	75.4	⁻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	55.0	⁻⁸²	₁	49.3	⁻⁸⁹	₀	43.1	⁻⁹⁵	₀	36.4	⁻¹⁰⁰	₀	26.4	⁻¹⁰³	₀	16.2					
Mar 12	75.5	⁻⁶	₀	75.1	⁻¹⁹	₀	73.8	⁻³¹	₀	71.6	⁻⁴³	₀	68.6	⁻⁵⁴	₀	64.8	⁻⁶⁴	₀	60.3	⁻⁷⁴	₀	55.1	⁻⁸²	₀	49.4	⁻⁸⁹	₀	43.1	⁻⁹⁵	₀	36.5	⁻¹⁰⁰	₀	26.5	⁻¹⁰³	₀	16.2					
Mar 13	75.5	⁻⁶	₋₁	75.0	⁻¹⁹	₋₁	73.7	⁻³¹	₋₁	71.5	⁻⁴³	₋₁	68.5	⁻⁵⁴	₋₁	64.8	⁻⁶⁴	₋₁	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					
Mar 14	75.3	⁻⁶	₋₂	74.9	⁻¹⁹	₋₂	73.6	⁻³¹	₋₂	71.4	⁻⁴³	₋₂	68.4	⁻⁵⁴	₋₂	64.6	⁻⁶⁴	₋₂	60.1	⁻⁷⁴	₋₂	55.0	⁻⁸²	₋₁	49.2	⁻⁸⁹	₋₁	43.0	⁻⁹⁵	₋₁	36.4	⁻¹⁰⁰	₋₁	26.4	⁻¹⁰³	₋₁	16.1					
Mar 15	75.1	⁻⁶	₋₃	74.7	⁻¹⁹	₋₃	73.3	⁻³¹	₋₃	71.2	⁻⁴³	₋₂	68.2	⁻⁵⁴	₋₂	64.4	⁻⁶⁴	₋₂	59.9	⁻⁷³	₋₂	54.8	⁻⁸¹	₋₂	49.1	⁻⁸⁸	₋₂	42.9	⁻⁹⁴	₋₁	36.3	⁻⁹⁹	₋₁	26.3	⁻¹⁰²	₋₁	16.1					
Mar 16	74.8	⁻⁶	₋₃	74.3	⁻¹⁹	₋₃	73.0	⁻³¹	₋₃	70.9	⁻⁴²	₋₃	67.9	⁻⁵³	₋₃	64.1	⁻⁶⁴	₋₃	59.7	⁻⁷³	₋₃	54.6	⁻⁸¹	₋₂	48.9	⁻⁸⁸	₋₂	42.7	⁻⁹⁴	₋₂	36.1	⁻⁹⁹	₋₁	26.2	⁻¹⁰²	₋₁	16.0					
Mar 17	74.4	⁻⁶	₋₄	73.9	⁻¹⁹	₋₄	72.6	⁻³¹	₋₄	70.5	⁻⁴²	₋₄	67.5	⁻⁵³	₋₄	63.8	⁻⁶³	₋₃	59.4	⁻⁷²	₋₃	54.3	⁻⁸¹	₋₃	48.6	⁻⁸⁸	₋₂	42.5	⁻⁹³	₋₂	35.9	⁻⁹⁸	₋₂	26.1	<							

2004

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	'	a	t
Feb 16	43.3	⁻⁶	₀	42.9	⁻¹⁹	₀	41.5	⁻³¹	₀	39.4	⁻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								
Feb 17	43.3	⁻⁶	₋₂	42.8	⁻¹⁹	₋₂	41.5	⁻³¹	₋₂	39.3	⁻⁴³	₋₂	36.3	⁻⁵⁴	₋₂	32.5	⁻⁶⁵	₋₂	28.0	⁻⁷⁴	₋₁	22.8	⁻⁸²	₋₁	17.1	⁻⁸⁹	₋₁	10.8	⁻⁹⁵	₋₁	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.2								
Feb 18	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	₋₃	22.8	⁻⁸²	₋₂	17.0	⁻⁸⁹	₋₂	10.8	⁻⁹⁵	₋₂	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.2								
Feb 19	42.9	⁻⁶	₋₅	42.5	⁻¹⁹	₋₅	41.2	⁻³¹	₋₅	39.0	⁻⁴³	₋₅	36.0	⁻⁵⁴	₋₅	32.3	⁻⁶⁴	₋₄	27.8	⁻⁷³	₋₄	22.6	⁻⁸¹	₋₄	16.9	⁻⁸⁸	₋₃	10.7	⁻⁹⁴	₋₃	4.1	⁻⁹⁹	₋₂	-5.8	⁻¹⁰²	₋₁	-16.1								
Feb 20	42.6	⁻⁶	₋₆	42.1	⁻¹⁹	₋₆	40.8	⁻³¹	₋₆	38.7	⁻⁴²	₋₆	35.7	⁻⁵³	₋₆	32.0	⁻⁶³	₋₅	27.5	⁻⁷²	₋₅	22.4	⁻⁸¹	₋₄	16.8	⁻⁸⁷	₋₄	10.6	⁻⁹³	₋₃	4.1	⁻⁹⁸	₋₃	-5.8	⁻¹⁰¹	₋₂	-15.9								
Feb 21	42.1	⁻⁶	₋₇	41.7	⁻¹⁸	₋₇	40.4	⁻³⁰	₋₇	38.3	⁻⁴²	₋₇	35.4	⁻⁵²	₋₆	31.7	⁻⁶³	₋₆	27.3	⁻⁷²	₋₆	22.2	⁻⁸⁰	₋₅	16.6	⁻⁸⁷	₋₄	10.5	⁻⁹²	₋₄	4.0	⁻⁹⁷	₋₃	-5.7	⁻¹⁰⁰	₋₂	-15.8								
Feb 22	41.6	⁻⁶	₋₈	41.2	⁻¹⁸	₋₇	39.9	⁻³⁰	₋₇	37.8	⁻⁴¹	₋₇	34.9	⁻⁵²	₋₇	31.3	⁻⁶²	₋₆	26.9	⁻⁷¹	₋₆	22.0	⁻⁷⁹	₋₅	16.4	⁻⁸⁵	₋₅	10.4	⁻⁹¹	₋₄	4.0	⁻⁹⁶	₋₃	-5.7	⁻⁹⁹	₋₂	-15.6								
Feb 23	41.1	⁻⁶	₋₇	40.7	⁻¹⁸	₋₇	39.4	⁻²⁹	₋₇	37.4	⁻⁴¹	₋₇	34.5	⁻⁵¹	₋₆	30.9	⁻⁶¹	₋₆	26.6	⁻⁷⁰	₋₆	21.7	⁻⁷⁸	₋₅	16.2	⁻⁸⁴	₋₄	10.3	⁻⁹⁰	₋₄	3.9	⁻⁹⁵	₋₃	-5.6	⁻⁹⁸	₋₂	-15.4								
Feb 24	40.6	⁻⁶	₋₆	40.2	⁻¹⁸	₋₆	39.0	⁻²⁹	₋₆	36.9	⁻⁴⁰	₋₆	34.1	⁻⁵¹	₋₆	30.5	⁻⁶⁰	₋₅	26.3	⁻⁶⁹	₋₅	21.4	⁻⁷⁷	₋₄	16.0	⁻⁸³	₋₄	10.1	⁻⁸⁹	₋₃	3.9	⁻⁹⁴	₋₃	-5.5	⁻⁹⁶	₋₂	-15.2								
Feb 25	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	-15.1								
Feb 26	39.8	⁻⁶	₋₄	39.4	⁻¹⁷	₋₃	38.2	⁻²⁹	₋₃	36.2	⁻³⁹	₋₃	33.4	⁻⁵⁰	₋₃	29.9	⁻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								
Feb 27	39.6	⁻⁶	₋₂	39.2	⁻¹⁷	₋₂	38.0	⁻²⁹	₋₂	36.0	⁻³⁹	₋₂	33.2	⁻⁵⁰	₋₂	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								
Feb 28	39.5	⁻⁶	₀	39.1	⁻¹⁷	₀	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	9.8	⁻⁸⁷	₀	3.8	⁻⁹¹	₀	-5.4	⁻⁹⁴	₀	-14.8								
Feb 29	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	⁻⁹²	₁	-5.4	⁻⁹⁴	₁	-14.8								
Mar 1	39.6	⁻⁶	₄	39.2	⁻¹⁷	₄	38.0	⁻²⁹	₃	36.0	⁻⁴⁰	₃	33.2	⁻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 2	39.9	⁻⁶	₅	39.4	⁻¹⁷	₅	38.2	⁻²⁹	₅	36.2	⁻⁴⁰	₅	33.4	⁻⁵⁰	₄	29.9	⁻⁶⁰	₄	25.8	⁻⁶⁸	₄	21.0	⁻⁷⁶	₄	15.7	⁻⁸³	₃	9.9	⁻⁸⁸	₃	3.8	⁻⁹³	₂	-5.4	⁻⁹⁶	₁	-14.9								
Mar 3	40.2	⁻⁶	₆	39.8	⁻¹⁸	₆	38.6	⁻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	⁻⁹⁴	₃	-5.5	⁻⁹⁶	₂	-15.1								
Mar 4	40.6	⁻⁶	₇	40.2	⁻¹⁸	₇	39.0	⁻²⁹	₇	36.9	⁻⁴¹	₆	34.1	⁻⁵¹	₆	30.5	⁻⁶¹	₆	26.3	⁻⁷⁰	₅	21.4	⁻⁷⁸	₅	16.0	⁻⁸⁴	₄	10.1	⁻⁹⁰	₄	3.9	⁻⁹⁵	₃	-5.5	⁻⁹⁸	₂	-15.2								
Mar 5	41.1	⁻⁶	₇	40.7	⁻¹⁸	₇	39.4	⁻³⁰	₇	37.3	⁻⁴¹	₆	34.5	⁻⁵²	₆	30.9	⁻⁶²	₆	26.6	⁻⁷¹	₅	21.7	⁻⁷⁹	₅	16.2	⁻⁸⁵	₄	10.3	⁻⁹¹	₄	3.9	⁻⁹⁶	₃	-5.6	⁻⁹⁹	₂	-15.4								
Mar 6	41.6	⁻⁶	₇	41.2	⁻¹⁸	₇	39.9	⁻³⁰	₆	37.8	⁻⁴²	₆	34.9	⁻⁵²	₆	31.2	⁻⁶²	₆	26.9	⁻⁷¹	₅	21.9	⁻⁸⁰	₅	16.4	⁻⁸⁶	₄	10.4	⁻⁹²	₄	4.0	⁻⁹⁷	₃	-5.6	⁻¹⁰⁰	₂	-15.6								
Mar 7	42.0	⁻⁶	₆	41.6	⁻¹⁸	₆	40.3	⁻³⁰	₆	38.2	⁻⁴²	₅	35.3	⁻⁵³	₅	31.6	⁻⁶³	₅	27.2	⁻⁷²	₄	22.2	⁻⁸⁰	₄	16.6	⁻⁸⁷	₄	10.5	⁻⁹³	₃	4.0	⁻⁹⁸	₂	-5.7	⁻¹⁰¹	₂	-15.7								
Mar 8	42.4	⁻⁶	₅	42.0	⁻¹⁹	₅	40.7	⁻³¹	₅	38.6	⁻⁴²	₄	35.6	⁻⁵³	₄	31.9	⁻⁶⁴	₄	27.5	⁻⁷³	₄	22.4	⁻⁸¹	₃	16.7	⁻⁸⁸	₃	10.6	⁻⁹⁴	₂	4.1	⁻⁹⁹	₂	-5.8	⁻¹⁰²	₁	-15.9								
Mar 9	42.8	⁻⁶	₃	42.3	⁻¹⁹	₃	41.0	⁻³¹	₃	38.9	⁻⁴³	₃	35.9	⁻⁵⁴	₃	32.1	⁻⁶⁴	₃	27.7	⁻⁷³	₃	22.5	⁻⁸²	₂	16.8	⁻⁸⁹	₂	10.7	⁻⁹⁴	₂	4.1	⁻⁹⁹	₁	-5.8	⁻¹⁰²	₁	-16.0								
Mar 10	43.0	⁻⁶	₂	42.5	⁻¹⁹	₂	41.2	⁻³¹	₂	39.1	⁻⁴³	₂	36.1	⁻⁵⁴	₂	32.3	⁻⁶⁴	₂	27.8	⁻⁷⁴	₂	22.7	⁻⁸²	₁	16.9	⁻⁸⁹	₁	10.7	⁻⁹⁵	₁	4.1	⁻¹⁰⁰	₁	-5.8	⁻¹⁰³	₁	-16.1								
Mar 11	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	₀	10.8	⁻⁹⁵	₀	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2								
Mar 12	43.2	⁻⁶	₀	42.7	⁻¹⁹	₀	41.4	⁻³¹	₀	39.2	⁻⁴³	₀	36.2	⁻⁵⁴	₀	32.4	⁻⁶⁴	₀	27.9	⁻⁷⁴	₀	22.8	⁻⁸²	₀	17.0	⁻⁸⁹	₀	10.8	⁻⁹⁵	₀	4.1	⁻¹⁰⁰	₀	-5.9	⁻¹⁰³	₀	-16.2								
Mar 13	43.2	⁻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	₋₁	-5.9	⁻¹⁰³	₀	-16.2								
Mar 14	43.1	⁻⁶	₋₂	42.6	⁻¹⁹	₋₂	41.3	⁻³¹	₋₂	39.1	⁻⁴³	₋₂	36.1	⁻⁵⁴	₋₂	32.4	⁻⁶⁴	₋₂	27.9	⁻⁷⁴	₋₂	22.7	⁻⁸²	₋₁	17.0	⁻⁸⁹	₋₁	10.7	⁻⁹⁵	₋₁	4.1	⁻¹⁰⁰	₋₁	-5.9	⁻¹⁰³	₋₁	-16.1								
Mar 15	42.9	⁻⁶	₋₃	42.5	⁻¹⁹	₋₃	41.2	⁻³¹	₋₃	39.0	⁻⁴³	₋₂	36.0	⁻⁵⁴	₋₂	32.3	⁻⁶⁴	₋₂	27.8	⁻⁷³	₋₂	22.6	⁻⁸¹	₋₂	16.9	⁻⁸⁹	₋₂	10.7	⁻⁹⁴	₋₁	4.1	⁻⁹⁹	₋₁	-5.8	⁻¹⁰²	₋₁	-16.1								
Mar 16	42.7	⁻⁶	₋₃	42.3	⁻¹⁹	₋₃	41.0	⁻³¹	₋₃	38.8	⁻⁴²	₋₃	35.9	⁻⁵³	₋₃	32.1	⁻⁶⁴	₋₃	27.7	⁻⁷³	₋₃	22.5	⁻⁸¹	₋₂	16.8	⁻⁸⁸	₋₂	10.7	⁻⁹⁴	₋₂	4.1	⁻⁹⁹	₋₁	-5.8	⁻¹⁰²	₋₁	-16.0								
Mar 17	42.5	⁻⁶	₋₄	42.1	⁻¹⁹	₋₄	40.8	⁻³¹	₋₄	38.6	⁻⁴²	₋₄	35.7	⁻⁵³	₋₄	31.9	⁻⁶³	₋₃	27.5	⁻⁷²	₋₃	22.4	⁻⁸¹	₋₃	16.8	⁻⁸⁸	₋₂	10.6	⁻⁹³	₋₂	4.1	⁻⁹⁸	₋₂	-5.8	⁻¹⁰¹	₋₁	-15.9								
Mar 18	42.2																																												

2004

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	
Apr 2	2	72.3 ⁻⁶	9	71.9 ⁻¹⁸	9	70.6 ⁻³⁰	8	68.5 ⁻⁴¹	8	65.6 ⁻⁵²	8	62.0 ⁻⁶²	7	57.7 ⁻⁷¹	7	52.8 ⁻⁷⁹	6	47.3 ⁻⁸⁶	5	41.3 ⁻⁹²	5	34.9 ⁻⁹⁶	4	25.3 ⁻⁹⁹	2	15.5
Apr 3	3	73.3 ⁻⁶	8	72.9 ⁻¹⁸	8	71.6 ⁻³⁰	8	69.5 ⁻⁴²	8	66.6 ⁻⁵³	7	62.9 ⁻⁶³	7	58.5 ⁻⁷²	6	53.5 ⁻⁸⁰	6	47.9 ⁻⁸⁷	5	41.9 ⁻⁹³	4	35.4 ⁻⁹⁸	4	25.7 ⁻¹⁰¹	2	15.7
Apr 4	4	74.3 ⁻⁶	7	73.9 ⁻¹⁹	7	72.6 ⁻³¹	7	70.5 ⁻⁴³	7	67.5 ⁻⁵⁴	7	63.8 ⁻⁶⁴	6	59.3 ⁻⁷³	6	54.2 ⁻⁸¹	5	48.6 ⁻⁸⁸	5	42.4 ⁻⁹⁴	4	35.9 ⁻⁹⁹	3	26.1 ⁻¹⁰²	2	15.9
Apr 5	5	75.2 ⁻⁶	6	74.8 ⁻¹⁹	6	73.5 ⁻³¹	6	71.3 ⁻⁴³	5	68.3 ⁻⁵⁴	5	64.5 ⁻⁶⁴	5	60.0 ⁻⁷⁴	4	54.9 ⁻⁸²	4	49.2 ⁻⁸⁹	4	42.9 ⁻⁹⁵	3	36.3 ⁻¹⁰⁰	2	26.4 ⁻¹⁰³	2	16.1
Apr 6	6	75.9 ⁻⁶	4	75.5 ⁻¹⁹	4	74.2 ⁻³¹	4	72.0 ⁻⁴³	3	68.9 ⁻⁵⁵	3	65.1 ⁻⁶⁵	3	60.6 ⁻⁷⁴	3	55.4 ⁻⁸³	3	49.6 ⁻⁹⁰	2	43.3 ⁻⁹⁶	2	36.7 ⁻¹⁰¹	2	26.6 ⁻¹⁰⁴	1	16.3
Apr 7	7	76.4 ⁻⁶	1	75.9 ⁻¹⁹	1	74.6 ⁻³²	1	72.4 ⁻⁴³	1	69.4 ⁻⁵⁵	1	65.5 ⁻⁶⁵	1	61.0 ⁻⁷⁵	1	55.7 ⁻⁸³	1	49.9 ⁻⁹⁰	1	43.6 ⁻⁹⁶	1	36.9 ⁻¹⁰¹	1	26.8 ⁻¹⁰⁴	0	16.4
Apr 8	8	76.5 ⁻⁶	-1	76.1 ⁻¹⁹	-1	74.8 ⁻³²	-1	72.5 ⁻⁴³	-1	69.5 ⁻⁵⁵	-1	65.7 ⁻⁶⁵	-1	61.1 ⁻⁷⁵	-1	55.9 ⁻⁸³	-1	50.0 ⁻⁹⁰	-1	43.7 ⁻⁹⁶	0	37.0 ⁻¹⁰¹	0	26.8 ⁻¹⁰⁴	0	16.4
Apr 9	9	76.4 ⁻⁶	-3	76.0 ⁻¹⁹	-3	74.7 ⁻³¹	-3	72.5 ⁻⁴³	-3	69.4 ⁻⁵⁵	-2	65.6 ⁻⁶⁵	-2	61.0 ⁻⁷⁵	-2	55.8 ⁻⁸³	-2	50.0 ⁻⁹⁰	-2	43.6 ⁻⁹⁶	-1	36.9 ⁻¹⁰¹	-1	26.8 ⁻¹⁰⁴	-1	16.4
Apr 10	10	76.1 ⁻⁶	-4	75.7 ⁻¹⁹	-4	74.3 ⁻³¹	-4	72.1 ⁻⁴³	-4	69.1 ⁻⁵⁴	-4	65.3 ⁻⁶⁵	-3	60.8 ⁻⁷⁴	-3	55.5 ⁻⁸³	-3	49.7 ⁻⁹⁰	-3	43.5 ⁻⁹⁵	-2	36.8 ⁻¹⁰⁰	-2	26.7 ⁻¹⁰⁴	-1	16.3
Apr 11	11	75.6 ⁻⁶	-5	75.2 ⁻¹⁹	-5	73.9 ⁻³¹	-5	71.7 ⁻⁴³	-5	68.7 ⁻⁵⁴	-4	64.9 ⁻⁶⁴	-4	60.4 ⁻⁷⁴	-4	55.2 ⁻⁸²	-3	49.4 ⁻⁸⁹	-3	43.2 ⁻⁹⁵	-3	36.5 ⁻¹⁰⁰	-2	26.5 ⁻¹⁰³	-1	16.2
Apr 12	12	75.0 ⁻⁶	-6	74.6 ⁻¹⁹	-5	73.3 ⁻³¹	-5	71.1 ⁻⁴²	-5	68.1 ⁻⁵³	-5	64.3 ⁻⁶⁴	-5	59.9 ⁻⁷³	-4	54.7 ⁻⁸¹	-4	49.0 ⁻⁸⁸	-3	42.8 ⁻⁹⁴	-3	36.2 ⁻⁹⁹	-2	26.3 ⁻¹⁰²	-2	16.1
Apr 13	13	74.3 ⁻⁶	-6	73.9 ⁻¹⁸	-6	72.6 ⁻³¹	-5	70.5 ⁻⁴²	-5	67.5 ⁻⁵³	-5	63.8 ⁻⁶³	-5	59.3 ⁻⁷²	-4	54.2 ⁻⁸⁰	-4	48.6 ⁻⁸⁷	-3	42.4 ⁻⁹³	-3	35.9 ⁻⁹⁸	-2	26.1 ⁻¹⁰¹	-2	15.9
Apr 14	14	73.7 ⁻⁶	-6	73.2 ⁻¹⁸	-6	71.9 ⁻³⁰	-5	69.8 ⁻⁴²	-5	66.9 ⁻⁵³	-5	63.2 ⁻⁶³	-5	58.8 ⁻⁷²	-4	53.7 ⁻⁸⁰	-4	48.1 ⁻⁸⁷	-3	42.1 ⁻⁹²	-3	35.6 ⁻⁹⁷	-2	25.8 ⁻¹⁰⁰	-2	15.8
Apr 15	15	73.0 ⁻⁶	-6	72.6 ⁻¹⁸	-5	71.3 ⁻³⁰	-5	69.2 ⁻⁴¹	-5	66.3 ⁻⁵²	-5	62.6 ⁻⁶²	-5	58.2 ⁻⁷¹	-4	53.3 ⁻⁷⁹	-4	47.7 ⁻⁸⁶	-3	41.7 ⁻⁹¹	-3	35.2 ⁻⁹⁶	-2	25.6 ⁻⁹⁹	-2	15.6
Apr 16	16	72.3 ⁻⁶	-5	71.9 ⁻¹⁸	-5	70.6 ⁻³⁰	-5	68.5 ⁻⁴¹	-5	65.7 ⁻⁵²	-5	62.0 ⁻⁶¹	-4	57.7 ⁻⁷⁰	-4	52.8 ⁻⁷⁸	-4	47.3 ⁻⁸⁵	-3	41.3 ⁻⁹¹	-3	34.9 ⁻⁹⁵	-2	25.4 ⁻⁹⁸	-2	15.5
Apr 17	17	71.7 ⁻⁶	-5	71.3 ⁻¹⁸	-5	70.0 ⁻²⁹	-5	67.9 ⁻⁴¹	-5	65.1 ⁻⁵¹	-5	61.5 ⁻⁶¹	-4	57.2 ⁻⁷⁰	-4	52.3 ⁻⁷⁸	-4	46.8 ⁻⁸⁴	-3	40.9 ⁻⁹⁰	-3	34.6 ⁻⁹⁴	-2	25.1 ⁻⁹⁷	-1	15.3
Apr 18	18	71.1 ⁻⁶	-5	70.6 ⁻¹⁸	-5	69.4 ⁻²⁹	-5	67.4 ⁻⁴⁰	-4	64.5 ⁻⁵¹	-4	61.0 ⁻⁶⁰	-4	56.7 ⁻⁶⁹	-4	51.9 ⁻⁷⁷	-3	46.4 ⁻⁸⁴	-3	40.6 ⁻⁸⁹	-3	34.3 ⁻⁹⁴	-2	24.9 ⁻⁹⁷	-1	15.2
Apr 19	19	70.5 ⁻⁶	-4	70.1 ⁻¹⁸	-4	68.8 ⁻²⁹	-4	66.8 ⁻⁴⁰	-4	64.0 ⁻⁵⁰	-4	60.5 ⁻⁶⁰	-4	56.3 ⁻⁶⁹	-3	51.4 ⁻⁷⁶	-3	46.1 ⁻⁸³	-3	40.2 ⁻⁸⁸	-2	34.0 ⁻⁹³	-2	24.7 ⁻⁹⁶	-1	15.1
Apr 20	20	70.0 ⁻⁶	-4	69.6 ⁻¹⁷	-4	68.3 ⁻²⁹	-4	66.3 ⁻⁴⁰	-4	63.5 ⁻⁵⁰	-3	60.0 ⁻⁶⁰	-3	55.8 ⁻⁶⁸	-3	51.1 ⁻⁷⁶	-3	45.7 ⁻⁸²	-2	39.9 ⁻⁸⁸	-2	33.8 ⁻⁹²	-2	24.5 ⁻⁹⁵	-1	15.0
Apr 21	21	69.5 ⁻⁶	-3	69.1 ⁻¹⁷	-3	67.9 ⁻²⁹	-3	65.9 ⁻³⁹	-3	63.1 ⁻⁵⁰	-3	59.6 ⁻⁵⁹	-2	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
Apr 22	22	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	50.5 ⁻⁷⁵	-1	45.2 ⁻⁸²	-1	39.5 ⁻⁸⁷	-1	33.4 ⁻⁹¹	-1	24.2 ⁻⁹⁴	-1	14.8
Apr 23	23	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	0	39.3 ⁻⁸⁷	0	33.3 ⁻⁹¹	0	24.2 ⁻⁹⁴	0	14.8
Apr 24	24	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 ⁻⁸⁷	0	33.2 ⁻⁹¹	0	24.1 ⁻⁹⁴	0	14.7
Apr 25	25	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
Apr 26	26	69.2 ⁻⁶	4	68.8 ⁻¹⁷	4	67.6 ⁻²⁹	4	65.6 ⁻³⁹	4	62.8 ⁻⁵⁰	4	59.4 ⁻⁵⁹	3	55.2 ⁻⁶⁸	3	50.5 ⁻⁷⁶	3	45.2 ⁻⁸²	3	39.5 ⁻⁸⁷	2	33.4 ⁻⁹²	2	24.3 ⁻⁹⁵	1	14.8
Apr 27	27	69.7 ⁻⁶	6	69.3 ⁻¹⁷	6	68.1 ⁻²⁹	6	66.0 ⁻⁴⁰	5	63.3 ⁻⁵⁰	5	59.8 ⁻⁶⁰	5	55.6 ⁻⁶⁸	4	50.8 ⁻⁷⁶	4	45.5 ⁻⁸³	4	39.8 ⁻⁸⁸	3	33.7 ⁻⁹³	2	24.4 ⁻⁹⁶	2	14.9
Apr 28	28	70.4 ⁻⁶	7	70.0 ⁻¹⁸	7	68.7 ⁻²⁹	7	66.7 ⁻⁴⁰	7	63.9 ⁻⁵¹	7	60.4 ⁻⁶⁰	6	56.2 ⁻⁶⁹	6	51.4 ⁻⁷⁷	5	46.0 ⁻⁸⁴	5	40.2 ⁻⁸⁹	4	34.0 ⁻⁹⁴	3	24.7 ⁻⁹⁷	2	15.1
Apr 29	29	71.3 ⁻⁶	9	70.9 ⁻¹⁸	9	69.6 ⁻³⁰	8	67.6 ⁻⁴¹	8	64.7 ⁻⁵¹	8	61.2 ⁻⁶¹	7	56.9 ⁻⁷⁰	7	52.0 ⁻⁷⁸	6	46.6 ⁻⁸⁵	5	40.7 ⁻⁹⁰	5	34.4 ⁻⁹⁵	4	25.0 ⁻⁹⁸	2	15.3
Apr 30	30	72.3 ⁻⁶	10	71.9 ⁻¹⁸	9	70.6 ⁻³⁰	9	68.6 ⁻⁴¹	9	65.7 ⁻⁵²	9	62.1 ⁻⁶²	8	57.7 ⁻⁷¹	7	52.8 ⁻⁷⁹	7	47.3 ⁻⁸⁶	6	41.3 ⁻⁹²	5	34.9 ⁻⁹⁶	4	25.4 ⁻⁹⁹	3	15.5
May 1	1	73.5 ⁻⁶	10	73.1 ⁻¹⁹	10	71.8 ⁻³¹	9	69.7 ⁻⁴²	9	66.7 ⁻⁵³	9	63.0 ⁻⁶³	8	58.7 ⁻⁷²	7	53.6 ⁻⁸¹	7	48.0 ⁻⁸⁷	6	42.0 ⁻⁹³	5	35.5 ⁻⁹⁸	4	25.8 ⁻¹⁰¹	3	15.7
May 2	2	74.7 ⁻⁶	9	74.2 ⁻¹⁹	9	72.9 ⁻³¹	9	70.8 ⁻⁴³	8	67.8 ⁻⁵⁴	8	64.1 ⁻⁶⁴	8	59.6 ⁻⁷⁴	7	54.5 ⁻⁸²	6	48.8 ⁻⁸⁹	6	42.6 ⁻⁹⁵	5	36.1 ⁻¹⁰⁰	4	26.2 ⁻¹⁰³	3	16.0
May 3	3	75.8 ⁻⁶	8	75.3 ⁻¹⁹	7	74.0 ⁻³¹	7	71.8 ⁻⁴³	7	68.8 ⁻⁵⁵	7	65.0 ⁻⁶⁵	6	60.5 ⁻⁷⁵	6	55.3 ⁻⁸³	5	49.5 ⁻⁹⁰	5	43.3 ⁻⁹⁶	4	36.6 ⁻¹⁰¹	3	26.6 ⁻¹⁰⁴	2	16.2
May 4	4	76.7 ⁻⁶	5	76.2 ⁻¹⁹	5	74.9 ⁻³²	5	72.7 ⁻⁴⁴	5	69.6 ⁻⁵⁵	5	65.8 ⁻⁶⁶	4	61.2 ⁻⁷⁵	4	55.9 ⁻⁸⁴	4	50.1 ⁻⁹¹	3	43.8 ⁻⁹⁷	3	37.0 ⁻¹⁰²	2	26.9 ⁻¹⁰⁵	1	16.4
May 5	5	77.3 ⁻⁶	2	76.8 ⁻¹⁹	2	75.5 ⁻³²	2	73.3 ⁻⁴⁴	2	70.2 ⁻⁵⁵	2	66.3 ⁻⁶⁶	2	61.7 ⁻⁷⁶	2	56.4 ⁻⁸⁴	1	50.5 ⁻⁹¹	1	44.1 ⁻⁹⁷	1	37.3 ⁻¹⁰²	1	27.1 ⁻¹⁰⁶	1	16.5
May 6	6	77.5 ⁻⁶	-1	77.1 ⁻¹⁹	-1	75.7 ⁻³²	-1	73.5 ⁻⁴⁴	-1	70.4 ⁻⁵⁶	-1	66.5 ⁻⁶⁶	-1	61.9 ⁻⁷⁶	-1	56.6 ⁻⁸⁴	-1	50.7 ⁻⁹²	-1	44.3 ⁻⁹⁷	0	37.4 ⁻¹⁰³	0	27.2 ⁻¹⁰⁶	0	16.6
May 7	7	77.4 ⁻⁶	-4	77.0 ⁻¹⁹	-4	75.6 ⁻³²	-4	73.4 ⁻⁴⁴	-3	70.3 ⁻⁵⁵	-3	66.4 ⁻⁶⁶	-3	61.8 ⁻⁷⁵	-3	56.5 ⁻⁸⁴	-3	50.6 ⁻⁹¹	-2	44.2 ⁻⁹⁷	-2	37.4 ⁻¹⁰²	-2	27.1 ⁻¹⁰⁵	-1	16.6
May 8	8	77.0 ⁻⁶	-6	76.5 ⁻¹⁹	-6	75.2 ⁻³²	-6	73.0 ⁻⁴⁴	-5	69.9 ⁻⁵⁵	-5	66.0 ⁻⁶⁵	-5	61.4 ⁻⁷⁵	-5	56.2 ⁻⁸³	-4	50.3 ⁻⁹¹	-4	43.9 ⁻⁹⁶	-3	37.2 ⁻¹⁰¹	-2	27.0 ⁻¹⁰⁵	-2	16.5
May 9	9	76.3 ⁻⁶	-7	75.8 ⁻¹⁹	-7	74.5 ⁻³¹	-7	72.3 ⁻⁴³	-7	69.3 ⁻⁵⁴	-6	65.4 ⁻⁶⁵	-6	60.9 ⁻⁷⁴	-6	55.7 ⁻⁸²	-5	49.8 ⁻⁹⁰	-4	43.5 ⁻⁹⁵	-4	36.8 ⁻¹⁰⁰	-3	26.7 ⁻¹⁰³	-2	16.3
May 10	10	75.4 ⁻⁶	-8	75.0 ⁻¹⁹	-8	73.6 ⁻³¹	-8	71.5 ⁻⁴³	-7	68.5 ⁻⁵⁴	-7	64.7 ⁻⁶⁴	-7	60.2 ⁻⁷³	-6	55.0 ⁻⁸¹	-6	49.3 ⁻⁸⁸	-5	43.0 ⁻⁹⁴	-4	36.4 ⁻⁹⁹	-3	26.4 ⁻¹⁰²	-2	16.1
May 11	11	74.4 ⁻⁶	-8	74.0 ⁻¹⁸	-8	72.7 ⁻³⁰	-8	70.5 ⁻⁴²	-7	67.6 ⁻⁵³	-7	63.9 ⁻⁶³	-7	59.4 ⁻⁷²	-6	54.3 ⁻⁸⁰	-6	48.6 ⁻⁸⁷	-5	42.5 ⁻⁹³	-4	35.9 ⁻⁹⁸	-3	26.1 ⁻¹⁰¹	-2	15.9
May 12	12	73.5 ⁻⁶	-8	73.0 ⁻¹⁸	-7	71.8 ⁻³⁰	-7	69.6 ⁻⁴²	-7	66.7 ⁻⁵²	-7	63.0 ⁻⁶²	-6	58.6 ⁻⁷¹	-6	53.6 ⁻⁷⁹	-5	48.0 ⁻⁸⁶								

2004

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	
Apr 2	2	41.3 ⁻⁶ ₉	40.9 ⁻¹⁸ ₉	39.6 ⁻³⁰ ₈	37.6 ⁻⁴¹ ₈	34.7 ⁻⁵² ₈	31.1 ⁻⁶² ₇	26.7 ⁻⁷¹ ₇	21.8 ⁻⁷⁹ ₆	16.3 ⁻⁸⁶ ₅	10.3 ⁻⁹² ₅	3.9 ⁻⁹⁶ ₄	-5.6 ⁻⁹⁹ ₂	-15.5
Apr 3	3	41.9 ⁻⁶ ₈	41.5 ⁻¹⁸ ₈	40.2 ⁻³⁰ ₈	38.1 ⁻⁴² ₈	35.2 ⁻⁵³ ₇	31.5 ⁻⁶³ ₇	27.1 ⁻⁷² ₆	22.1 ⁻⁸⁰ ₆	16.5 ⁻⁸⁷ ₅	10.5 ⁻⁹³ ₄	4.0 ⁻⁹⁸ ₄	-5.7 ⁻¹⁰¹ ₂	-15.7
Apr 4	4	42.5 ⁻⁶ ₇	42.1 ⁻¹⁹ ₇	40.8 ⁻³¹ ₇	38.6 ⁻⁴³ ₇	35.7 ⁻⁵⁴ ₇	31.9 ⁻⁶⁴ ₆	27.5 ⁻⁷³ ₆	22.4 ⁻⁸¹ ₅	16.7 ⁻⁸⁸ ₅	10.6 ⁻⁹⁴ ₄	4.1 ⁻⁹⁹ ₃	-5.8 ⁻¹⁰² ₂	-15.9
Apr 5	5	43.0 ⁻⁶ ₆	42.6 ⁻¹⁹ ₆	41.3 ⁻³¹ ₆	39.1 ⁻⁴³ ₅	36.1 ⁻⁵⁴ ₅	32.3 ⁻⁶⁴ ₅	27.8 ⁻⁷⁴ ₄	22.7 ⁻⁸² ₄	16.9 ⁻⁸⁹ ₄	10.7 ⁻⁹⁵ ₃	4.1 ⁻¹⁰⁰ ₂	-5.8 ⁻¹⁰³ ₂	-16.1
Apr 6	6	43.4 ⁻⁶ ₄	43.0 ⁻¹⁹ ₄	41.6 ⁻³¹ ₄	39.4 ⁻⁴³ ₃	36.4 ⁻⁵⁵ ₃	32.6 ⁻⁶⁵ ₃	28.1 ⁻⁷⁴ ₃	22.9 ⁻⁸³ ₃	17.1 ⁻⁹⁰ ₂	10.8 ⁻⁹⁶ ₂	4.1 ⁻¹⁰¹ ₂	-5.9 ⁻¹⁰⁴ ₁	-16.3
Apr 7	7	43.7 ⁻⁶ ₁	43.2 ⁻¹⁹ ₁	41.9 ⁻³² ₁	39.7 ⁻⁴³ ₁	36.6 ⁻⁵⁵ ₁	32.8 ⁻⁶⁵ ₁	28.2 ⁻⁷⁵ ₁	23.0 ⁻⁸³ ₁	17.2 ⁻⁹⁰ ₁	10.9 ⁻⁹⁶ ₁	4.2 ⁻¹⁰¹ ₁	-5.9 ⁻¹⁰⁴ ₀	-16.4
Apr 8	8	43.8 ⁻⁶ ₋₁	43.3 ⁻¹⁹ ₋₁	42.0 ⁻³² ₋₁	39.8 ⁻⁴³ ₋₁	36.7 ⁻⁵⁵ ₋₁	32.9 ⁻⁶⁵ ₋₁	28.3 ⁻⁷⁵ ₋₁	23.1 ⁻⁸³ ₋₁	17.2 ⁻⁹⁰ ₋₁	10.9 ⁻⁹⁶ ₀	4.2 ⁻¹⁰¹ ₀	-5.9 ⁻¹⁰⁴ ₀	-16.4
Apr 9	9	43.7 ⁻⁶ ₋₃	43.3 ⁻¹⁹ ₋₃	41.9 ⁻³¹ ₋₃	39.7 ⁻⁴³ ₋₃	36.7 ⁻⁵⁵ ₋₂	32.8 ⁻⁶⁵ ₋₂	28.3 ⁻⁷⁵ ₋₂	23.0 ⁻⁸³ ₋₂	17.2 ⁻⁹⁰ ₋₂	10.9 ⁻⁹⁶ ₋₁	4.2 ⁻¹⁰¹ ₋₁	-5.9 ⁻¹⁰⁴ ₋₁	-16.4
Apr 10	10	43.5 ⁻⁶ ₋₄	43.1 ⁻¹⁹ ₋₄	41.7 ⁻³¹ ₋₄	39.5 ⁻⁴³ ₋₄	36.5 ⁻⁵⁴ ₋₄	32.7 ⁻⁶⁵ ₋₃	28.2 ⁻⁷⁴ ₋₃	22.9 ⁻⁸³ ₋₃	17.1 ⁻⁹⁰ ₋₃	10.9 ⁻⁹⁵ ₋₂	4.2 ⁻¹⁰⁰ ₋₂	-5.9 ⁻¹⁰⁴ ₋₁	-16.3
Apr 11	11	43.2 ⁻⁶ ₋₅	42.8 ⁻¹⁹ ₋₅	41.5 ⁻³¹ ₋₅	39.3 ⁻⁴³ ₋₅	36.3 ⁻⁵⁴ ₋₄	32.5 ⁻⁶⁴ ₋₄	28.0 ⁻⁷⁴ ₋₄	22.8 ⁻⁸² ₋₃	17.0 ⁻⁸⁹ ₋₃	10.8 ⁻⁹⁵ ₋₃	4.1 ⁻¹⁰⁰ ₋₂	-5.9 ⁻¹⁰³ ₋₁	-16.2
Apr 12	12	42.9 ⁻⁶ ₋₆	42.4 ⁻¹⁹ ₋₅	41.1 ⁻³¹ ₋₅	39.0 ⁻⁴² ₋₅	36.0 ⁻⁵³ ₋₅	32.2 ⁻⁶⁴ ₋₅	27.7 ⁻⁷³ ₋₄	22.6 ⁻⁸¹ ₋₄	16.9 ⁻⁸⁸ ₋₃	10.7 ⁻⁹⁴ ₋₃	4.1 ⁻⁹⁹ ₋₂	-5.8 ⁻¹⁰² ₋₂	-16.1
Apr 13	13	42.5 ⁻⁶ ₋₆	42.1 ⁻¹⁸ ₋₆	40.8 ⁻³¹ ₋₅	38.6 ⁻⁴² ₋₅	35.7 ⁻⁵³ ₋₅	31.9 ⁻⁶³ ₋₅	27.5 ⁻⁷² ₋₄	22.4 ⁻⁸⁰ ₋₄	16.7 ⁻⁸⁷ ₋₃	10.6 ⁻⁹³ ₋₃	4.1 ⁻⁹⁸ ₋₂	-5.8 ⁻¹⁰¹ ₋₂	-15.9
Apr 14	14	42.1 ⁻⁶ ₋₆	41.7 ⁻¹⁸ ₋₆	40.4 ⁻³⁰ ₋₅	38.3 ⁻⁴² ₋₅	35.3 ⁻⁵³ ₋₅	31.6 ⁻⁶³ ₋₅	27.2 ⁻⁷² ₋₄	22.2 ⁻⁸⁰ ₋₄	16.6 ⁻⁸⁷ ₋₃	10.5 ⁻⁹² ₋₃	4.0 ⁻⁹⁷ ₋₂	-5.7 ⁻¹⁰⁰ ₋₂	-15.8
Apr 15	15	41.7 ⁻⁶ ₋₆	41.3 ⁻¹⁸ ₋₅	40.0 ⁻³⁰ ₋₅	37.9 ⁻⁴¹ ₋₅	35.0 ⁻⁵² ₋₅	31.3 ⁻⁶² ₋₅	27.0 ⁻⁷¹ ₋₄	22.0 ⁻⁷⁹ ₋₄	16.4 ⁻⁸⁶ ₋₃	10.4 ⁻⁹¹ ₋₃	4.0 ⁻⁹⁶ ₋₂	-5.7 ⁻⁹⁹ ₋₂	-15.6
Apr 16	16	41.3 ⁻⁶ ₋₅	40.9 ⁻¹⁸ ₋₅	39.7 ⁻³⁰ ₋₅	37.6 ⁻⁴¹ ₋₅	34.7 ⁻⁵² ₋₅	31.1 ⁻⁶¹ ₋₄	26.7 ⁻⁷⁰ ₋₄	21.8 ⁻⁷⁸ ₋₄	16.3 ⁻⁸⁵ ₋₃	10.3 ⁻⁹¹ ₋₃	4.0 ⁻⁹⁵ ₋₂	-5.6 ⁻⁹⁸ ₋₂	-15.5
Apr 17	17	41.0 ⁻⁶ ₋₅	40.6 ⁻¹⁸ ₋₅	39.3 ⁻²⁹ ₋₅	37.2 ⁻⁴¹ ₋₅	34.4 ⁻⁵¹ ₋₅	30.8 ⁻⁶¹ ₋₄	26.5 ⁻⁷⁰ ₋₄	21.6 ⁻⁷⁸ ₋₄	16.1 ⁻⁸⁴ ₋₃	10.2 ⁻⁹⁰ ₋₃	3.9 ⁻⁹⁴ ₋₂	-5.6 ⁻⁹⁷ ₋₁	-15.3
Apr 18	18	40.6 ⁻⁶ ₋₅	40.2 ⁻¹⁸ ₋₅	39.0 ⁻²⁹ ₋₅	36.9 ⁻⁴⁰ ₋₄	34.1 ⁻⁵¹ ₋₄	30.5 ⁻⁶⁰ ₋₄	26.3 ⁻⁶⁹ ₋₄	21.4 ⁻⁷⁷ ₋₃	16.0 ⁻⁸⁴ ₋₃	10.1 ⁻⁸⁹ ₋₃	3.9 ⁻⁹⁴ ₋₂	-5.5 ⁻⁹⁷ ₋₁	-15.2
Apr 19	19	40.3 ⁻⁶ ₋₄	39.9 ⁻¹⁸ ₋₄	38.7 ⁻²⁹ ₋₄	36.6 ⁻⁴⁰ ₋₄	33.8 ⁻⁵⁰ ₋₄	30.3 ⁻⁶⁰ ₋₄	26.1 ⁻⁶⁹ ₋₃	21.2 ⁻⁷⁶ ₋₃	15.9 ⁻⁸³ ₋₃	10.1 ⁻⁸⁸ ₋₂	3.9 ⁻⁹³ ₋₂	-5.5 ⁻⁹⁶ ₋₁	-15.1
Apr 20	20	40.0 ⁻⁶ ₋₄	39.6 ⁻¹⁷ ₋₄	38.4 ⁻²⁹ ₋₄	36.3 ⁻⁴⁰ ₋₄	33.6 ⁻⁵⁰ ₋₃	30.1 ⁻⁶⁰ ₋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
Apr 21	21	39.7 ⁻⁶ ₋₃	39.3 ⁻¹⁷ ₋₃	38.1 ⁻²⁹ ₋₃	36.1 ⁻³⁹ ₋₃	33.3 ⁻⁵⁰ ₋₃	29.9 ⁻⁵⁹ ₋₂	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
Apr 22	22	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 ₋₁	15.6 ⁻⁸² ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₋₁	-14.8
Apr 23	23	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 ₀	9.8 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	-5.4 ⁻⁹⁴ ₀	-14.8
Apr 24	24	39.3 ⁻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 ₀	9.8 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	-5.3 ⁻⁹⁴ ₀	-14.7
Apr 25	25	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
Apr 26	26	39.6 ⁻⁶ ₄	39.2 ⁻¹⁷ ₄	37.9 ⁻²⁹ ₄	35.9 ⁻³⁹ ₄	33.2 ⁻⁵⁰ ₄	29.7 ⁻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
Apr 27	27	39.8 ⁻⁶ ₆	39.4 ⁻¹⁷ ₆	38.2 ⁻²⁹ ₆	36.2 ⁻⁴⁰ ₅	33.4 ⁻⁵⁰ ₅	29.9 ⁻⁶⁰ ₅	25.8 ⁻⁶⁸ ₄	21.0 ⁻⁷⁶ ₄	15.7 ⁻⁸³ ₄	9.9 ⁻⁸⁸ ₃	3.8 ⁻⁹³ ₂	-5.4 ⁻⁹⁶ ₂	-14.9
Apr 28	28	40.2 ⁻⁶ ₇	39.8 ⁻¹⁸ ₇	38.6 ⁻²⁹ ₇	36.6 ⁻⁴⁰ ₇	33.8 ⁻⁵¹ ₇	30.2 ⁻⁶⁰ ₆	26.0 ⁻⁶⁹ ₆	21.2 ⁻⁷⁷ ₅	15.9 ⁻⁸⁴ ₅	10.0 ⁻⁸⁹ ₄	3.8 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.1
Apr 29	29	40.8 ⁻⁶ ₉	40.3 ⁻¹⁸ ₉	39.1 ⁻³⁰ ₈	37.0 ⁻⁴¹ ₈	34.2 ⁻⁵¹ ₈	30.6 ⁻⁶¹ ₇	26.4 ⁻⁷⁰ ₇	21.5 ⁻⁷⁸ ₆	16.1 ⁻⁸⁵ ₅	10.2 ⁻⁹⁰ ₅	3.9 ⁻⁹⁵ ₄	-5.5 ⁻⁹⁸ ₂	-15.3
Apr 30	30	41.4 ⁻⁶ ₁₀	40.9 ⁻¹⁸ ₉	39.7 ⁻³⁰ ₉	37.6 ⁻⁴¹ ₉	34.7 ⁻⁵² ₉	31.1 ⁻⁶² ₈	26.8 ⁻⁷¹ ₇	21.8 ⁻⁷⁹ ₇	16.3 ⁻⁸⁶ ₆	10.3 ⁻⁹² ₅	4.0 ⁻⁹⁶ ₄	-5.6 ⁻⁹⁹ ₃	-15.5
May 1	1	42.0 ⁻⁶ ₁₀	41.6 ⁻¹⁹ ₁₀	40.3 ⁻³¹ ₉	38.2 ⁻⁴² ₉	35.3 ⁻⁵³ ₉	31.6 ⁻⁶³ ₈	27.2 ⁻⁷² ₇	22.2 ⁻⁸¹ ₇	16.6 ⁻⁸⁷ ₆	10.5 ⁻⁹³ ₅	4.0 ⁻⁹⁸ ₄	-5.7 ⁻¹⁰¹ ₃	-15.7
May 2	2	42.7 ⁻⁶ ₉	42.3 ⁻¹⁹ ₉	40.9 ⁻³¹ ₉	38.8 ⁻⁴³ ₈	35.8 ⁻⁵⁴ ₈	32.1 ⁻⁶⁴ ₈	27.6 ⁻⁷⁴ ₇	22.5 ⁻⁸² ₆	16.8 ⁻⁸⁹ ₆	10.6 ⁻⁹⁵ ₅	4.1 ⁻¹⁰⁰ ₄	-5.8 ⁻¹⁰³ ₃	-16.0
May 3	3	43.3 ⁻⁶ ₈	42.9 ⁻¹⁹ ₇	41.5 ⁻³¹ ₇	39.4 ⁻⁴³ ₇	36.3 ⁻⁵⁵ ₇	32.5 ⁻⁶⁵ ₆	28.0 ⁻⁷⁵ ₆	22.8 ⁻⁸³ ₅	17.1 ⁻⁹⁰ ₅	10.8 ⁻⁹⁶ ₄	4.1 ⁻¹⁰¹ ₃	-5.9 ⁻¹⁰⁴ ₂	-16.2
May 4	4	43.8 ⁻⁶ ₅	43.4 ⁻¹⁹ ₅	42.0 ⁻³² ₅	39.8 ⁻⁴⁴ ₅	36.8 ⁻⁵⁵ ₅	32.9 ⁻⁶⁶ ₄	28.4 ⁻⁷⁵ ₄	23.1 ⁻⁸⁴ ₄	17.3 ⁻⁹¹ ₃	10.9 ⁻⁹⁷ ₃	4.2 ⁻¹⁰² ₂	-6.0 ⁻¹⁰⁵ ₁	-16.4
May 5	5	44.2 ⁻⁶ ₂	43.7 ⁻¹⁹ ₂	42.4 ⁻³² ₂	40.1 ⁻⁴⁴ ₂	37.1 ⁻⁵⁵ ₂	33.2 ⁻⁶⁶ ₂	28.6 ⁻⁷⁶ ₂	23.3 ⁻⁸⁴ ₁	17.4 ⁻⁹¹ ₁	11.0 ⁻⁹⁷ ₁	4.2 ⁻¹⁰² ₁	-6.0 ⁻¹⁰⁶ ₁	-16.5
May 6	6	44.3 ⁻⁶ ₋₁	43.9 ⁻¹⁹ ₋₁	42.5 ⁻³² ₋₁	40.3 ⁻⁴⁴ ₋₁	37.2 ⁻⁵⁶ ₋₁	33.3 ⁻⁶⁶ ₋₁	28.7 ⁻⁷⁶ ₋₁	23.4 ⁻⁸⁴ ₋₁	17.5 ⁻⁹² ₋₁	11.1 ⁻⁹⁷ ₀	4.2 ⁻¹⁰³ ₀	-6.0 ⁻¹⁰⁶ ₀	-16.6
May 7	7	44.3 ⁻⁶ ₋₄	43.8 ⁻¹⁹ ₋₄	42.5 ⁻³² ₋₄	40.2 ⁻⁴⁴ ₋₃	37.1 ⁻⁵⁵ ₋₃	33.3 ⁻⁶⁶ ₋₃	28.6 ⁻⁷⁵ ₋₃	23.3 ⁻⁸⁴ ₋₃	17.4 ⁻⁹¹ ₋₂	11.0 ⁻⁹⁷ ₋₂	4.2 ⁻¹⁰² ₋₂	-6.0 ⁻¹⁰⁵ ₋₁	-16.6
May 8	8	44.0 ⁻⁶ ₋₆	43.6 ⁻¹⁹ ₋₆	42.2 ⁻³² ₋₆	40.0 ⁻⁴⁴ ₋₅	36.9 ⁻⁵⁵ ₋₅	33.1 ⁻⁶⁵ ₋₅	28.5 ⁻⁷⁵ ₋₅	23.2 ⁻⁸³ ₋₄	17.3 ⁻⁹¹ ₋₄	11.0 ⁻⁹⁶ ₋₃	4.2 ⁻¹⁰¹ ₋₂	-6.0 ⁻¹⁰⁵ ₋₂	-16.5
May 9	9	43.6 ⁻⁶ ₋₇	43.2 ⁻¹⁹ ₋₇	41.8 ⁻³¹ ₋₇	39.6 ⁻⁴³ ₋₇	36.6 ⁻⁵⁴ ₋₆	32.8 ⁻⁶⁵ ₋₆	28.2 ⁻⁷⁴ ₋₆	23.0 ⁻⁸² ₋₅	17.2 ⁻⁹⁰ ₋₄	10.9 ⁻⁹⁵ ₋₄	4.2 ⁻¹⁰⁰ ₋₃	-5.9 ⁻¹⁰³ ₋₂	-16.3
May 10	10	43.1 ⁻⁶ ₋₈	42.7 ⁻¹⁹ ₋₈	41.3 ⁻³¹ ₋₈	39.2 ⁻⁴³ ₋₇	36.2 ⁻⁵⁴ ₋₇	32.4 ⁻⁶⁴ ₋₇	27.9 ⁻⁷³ ₋₆	22.7 ⁻⁸¹ ₋₆	17.0 ⁻⁸⁸ ₋₅	10.8 ⁻⁹⁴ ₋₄	4.1 ⁻⁹⁹ ₋₃	-5.9 ⁻¹⁰² ₋₂	-16.1
May 11	11	42.6 ⁻⁶ ₋₈	42.1 ⁻¹⁸ ₋₈	40.8 ⁻³⁰ ₋₈	38.7 ⁻⁴² ₋₇	35.7 ⁻⁵³ ₋₇	32.0 ⁻⁶³ ₋₇	27.5 ⁻⁷² ₋₆	22.4 ⁻⁸⁰ ₋₆	16.8 ⁻⁸⁷ ₋₅	10.6 ⁻⁹³ ₋₄	4.1 ⁻⁹⁸ ₋₃	-5.8 ⁻¹⁰¹ ₋₂	-15.9
May 12	12	42.0 ⁻⁶ ₋₈	41.6 ⁻¹⁸ ₋₇	40.3 ⁻³⁰ ₋₇	38.2 ⁻⁴² ₋₇	35.2 ⁻⁵² ₋₇	31.6 ⁻⁶² ₋₆	27.2 ⁻⁷¹ ₋₆	22.1 ⁻⁷⁹ ₋₅	16.6 ⁻⁸⁶ ₋₅	10.5 ⁻⁹² ₋₄	4.0 ⁻⁹⁷ ₋₃	-5.7 ⁻¹⁰⁰ ₋₂	-15.7
May 13	13	41.5 ⁻⁶ ₋₇	41.1 ⁻¹⁸ ₋₇	39.8 ⁻³⁰										

2004

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
May 18	39.7	⁻⁶	₋₃	39.3	⁻¹⁷	₋₃	38.1	⁻²⁹	₋₃	36.0	⁻³⁹	₋₃	33.3	⁻⁵⁰	₋₂	29.8	⁻⁵⁹	₋₂	25.7	⁻⁶⁸	₋₂	20.9	⁻⁷⁵	₋₂	15.6	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁴	₋₁	-14.9					
May 19	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					
May 20	39.3	⁻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	₀	-5.3	⁻⁹⁴	₀	-14.7					
May 21	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					
May 22	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	⁻⁸⁶	₁	3.8	⁻⁹¹	₀	-5.3	⁻⁹⁴	₀	-14.7					
May 23	39.4	⁻⁶	₃	38.9	⁻¹⁷	₂	37.7	⁻²⁸	₂	35.8	⁻³⁹	₂	33.0	⁻⁴⁹	₂	29.6	⁻⁵⁹	₂	25.5	⁻⁶⁷	₂	20.7	⁻⁷⁵	₂	15.5	⁻⁸¹	₂	9.8	⁻⁸⁷	₁	3.8	⁻⁹¹	₁	-5.3	⁻⁹⁴	₁	-14.7					
May 24	39.5	⁻⁶	₄	39.1	⁻¹⁷	₄	37.9	⁻²⁹	₄	35.9	⁻³⁹	₄	33.2	⁻⁵⁰	₄	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					
May 25	39.8	⁻⁶	₆	39.4	⁻¹⁷	₅	38.2	⁻²⁹	₅	36.2	⁻⁴⁰	₅	33.4	⁻⁵⁰	₅	29.9	⁻⁶⁰	₅	25.7	⁻⁶⁸	₄	21.0	⁻⁷⁶	₄	15.7	⁻⁸³	₃	9.9	⁻⁸⁸	₃	3.8	⁻⁹³	₂	-5.4	⁻⁹⁵	₂	-14.9					
May 26	40.2	⁻⁶	₇	39.8	⁻¹⁸	₇	38.5	⁻²⁹	₇	36.5	⁻⁴⁰	₇	33.7	⁻⁵¹	₆	30.2	⁻⁶⁰	₆	26.0	⁻⁶⁹	₅	21.2	⁻⁷⁷	₅	15.8	⁻⁸⁴	₄	10.0	⁻⁸⁹	₄	3.8	⁻⁹⁴	₃	-5.5	⁻⁹⁷	₂	-15.1					
May 27	40.7	⁻⁶	₉	40.3	⁻¹⁸	₈	39.0	⁻³⁰	₈	37.0	⁻⁴¹	₈	34.1	⁻⁵¹	₈	30.6	⁻⁶¹	₇	26.3	⁻⁷⁰	₇	21.4	⁻⁷⁸	₆	16.0	⁻⁸⁵	₅	10.1	⁻⁹⁰	₄	3.9	⁻⁹⁵	₄	-5.5	⁻⁹⁸	₂	-15.2					
May 28	41.3	⁻⁶	₁₀	40.8	⁻¹⁸	₉	39.6	⁻³⁰	₉	37.5	⁻⁴¹	₉	34.6	⁻⁵²	₉	31.0	⁻⁶²	₈	26.7	⁻⁷¹	₇	21.8	⁻⁷⁹	₇	16.3	⁻⁸⁶	₆	10.3	⁻⁹¹	₅	3.9	⁻⁹⁶	₄	-5.6	⁻⁹⁹	₃	-15.5					
May 29	41.9	⁻⁶	₁₀	41.5	⁻¹⁸	₁₀	40.2	⁻³⁰	₁₀	38.1	⁻⁴²	₉	35.2	⁻⁵³	₉	31.5	⁻⁶³	₈	27.1	⁻⁷²	₈	22.1	⁻⁸⁰	₇	16.5	⁻⁸⁷	₆	10.5	⁻⁹³	₅	4.0	⁻⁹⁸	₄	-5.7	⁻¹⁰¹	₃	-15.7					
May 30	42.6	⁻⁶	₁₀	42.2	⁻¹⁹	₁₀	40.9	⁻³¹	₁₀	38.7	⁻⁴³	₉	35.8	⁻⁵⁴	₉	32.0	⁻⁶⁴	₈	27.6	⁻⁷³	₈	22.5	⁻⁸²	₇	16.8	⁻⁸⁹	₆	10.6	⁻⁹⁴	₅	4.1	⁻⁹⁹	₄	-5.8	⁻¹⁰³	₃	-16.0					
May 31	43.3	⁻⁶	₉	42.9	⁻¹⁹	₉	41.5	⁻³¹	₈	39.3	⁻⁴³	₈	36.3	⁻⁵⁵	₈	32.5	⁻⁶⁵	₇	28.0	⁻⁷⁵	₇	22.8	⁻⁸³	₆	17.1	⁻⁹⁰	₅	10.8	⁻⁹⁶	₅	4.1	⁻¹⁰¹	₄	-5.9	⁻¹⁰⁴	₂	-16.2					
Jun 1	43.9	⁻⁶	₇	43.5	⁻¹⁹	₇	42.1	⁻³²	₆	39.9	⁻⁴⁴	₆	36.8	⁻⁵⁵	₆	33.0	⁻⁶⁶	₆	28.4	⁻⁷⁵	₅	23.1	⁻⁸⁴	₅	17.3	⁻⁹¹	₄	11.0	⁻⁹⁷	₄	4.2	⁻¹⁰²	₃	-6.0	⁻¹⁰⁵	₂	-16.4					
Jun 2	44.4	⁻⁷	₄	43.9	⁻¹⁹	₄	42.6	⁻³²	₄	40.3	⁻⁴⁴	₃	37.2	⁻⁵⁶	₃	33.3	⁻⁶⁶	₃	28.7	⁻⁷⁶	₃	23.4	⁻⁸⁵	₃	17.5	⁻⁹²	₂	11.1	⁻⁹⁸	₂	4.2	⁻¹⁰³	₂	-6.0	⁻¹⁰⁶	₁	-16.6					
Jun 3	44.6	⁻⁷	₀	44.2	⁻²⁰	₀	42.8	⁻³²	₀	40.5	⁻⁴⁴	₀	37.4	⁻⁵⁶	₀	33.5	⁻⁶⁷	₀	28.9	⁻⁷⁶	₀	23.5	⁻⁸⁵	₀	17.6	⁻⁹²	₀	11.1	⁻⁹⁸	₀	4.3	⁻¹⁰³	₀	-6.1	⁻¹⁰⁷	₀	-16.7					
Jun 4	44.6	⁻⁷	₋₃	44.2	⁻¹⁹	₋₃	42.8	⁻³²	₋₃	40.6	⁻⁴⁴	₋₃	37.4	⁻⁵⁶	₋₃	33.5	⁻⁶⁶	₋₃	28.9	⁻⁷⁶	₋₂	23.5	⁻⁸⁵	₋₂	17.6	⁻⁹²	₋₂	11.1	⁻⁹⁸	₋₂	4.3	⁻¹⁰³	₋₁	-6.1	⁻¹⁰⁶	₋₁	-16.7					
Jun 5	44.4	⁻⁶	₋₆	43.9	⁻¹⁹	₋₆	42.6	⁻³²	₋₆	40.4	⁻⁴⁴	₋₆	37.3	⁻⁵⁵	₋₅	33.4	⁻⁶⁶	₋₅	28.7	⁻⁷⁶	₋₅	23.4	⁻⁸⁴	₋₄	17.5	⁻⁹¹	₋₄	11.1	⁻⁹⁷	₋₃	4.2	⁻¹⁰²	₋₃	-6.0	⁻¹⁰⁵	₋₂	-16.6					
Jun 6	44.0	⁻⁶	₋₈	43.5	⁻¹⁹	₋₈	42.2	⁻³²	₋₈	40.0	⁻⁴³	₋₈	36.9	⁻⁵⁵	₋₇	33.0	⁻⁶⁵	₋₇	28.5	⁻⁷⁵	₋₆	23.2	⁻⁸³	₋₆	17.3	⁻⁹⁰	₋₅	11.0	⁻⁹⁶	₋₄	4.2	⁻¹⁰¹	₋₃	-6.0	⁻¹⁰⁴	₋₂	-16.5					
Jun 7	43.4	⁻⁶	₋₉	43.0	⁻¹⁹	₋₉	41.6	⁻³¹	₋₉	39.4	⁻⁴³	₋₉	36.4	⁻⁵⁴	₋₈	32.6	⁻⁶⁴	₋₈	28.1	⁻⁷⁴	₋₇	22.9	⁻⁸²	₋₇	17.1	⁻⁸⁹	₋₆	10.8	⁻⁹⁵	₋₅	4.1	⁻¹⁰⁰	₋₄	-5.9	⁻¹⁰³	₋₃	-16.3					
Jun 8	42.8	⁻⁶	₋₁₀	42.3	⁻¹⁹	₋₁₀	41.0	⁻³¹	₋₉	38.9	⁻⁴²	₋₉	35.9	⁻⁵³	₋₉	32.1	⁻⁶³	₋₈	27.7	⁻⁷³	₋₇	22.5	⁻⁸¹	₋₇	16.9	⁻⁸⁸	₋₆	10.7	⁻⁹³	₋₅	4.1	⁻⁹⁸	₋₄	-5.8	⁻¹⁰¹	₋₃	-16.0					
Jun 9	42.1	⁻⁶	₋₉	41.7	⁻¹⁸	₋₉	40.4	⁻³⁰	₋₉	38.3	⁻⁴²	₋₉	35.3	⁻⁵²	₋₈	31.6	⁻⁶²	₋₈	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					
Jun 10	41.5	⁻⁶	₋₈	41.0	⁻¹⁸	₋₈	39.8	⁻³⁰	₋₈	37.7	⁻⁴¹	₋₈	34.8	⁻⁵²	₋₇	31.2	⁻⁶¹	₋₇	26.8	⁻⁷⁰	₋₆	21.9	⁻⁷⁸	₋₆	16.3	⁻⁸⁵	₋₅	10.3	⁻⁹¹	₋₄	4.0	⁻⁹⁵	₋₃	-5.6	⁻⁹⁸	₋₂	-15.5					
Jun 11	40.9	⁻⁶	₋₇	40.5	⁻¹⁸	₋₇	39.2	⁻²⁹	₋₇	37.2	⁻⁴⁰	₋₇	34.3	⁻⁵¹	₋₆	30.7	⁻⁶¹	₋₆	26.5	⁻⁷⁰	₋₅	21.6	⁻⁷⁷	₋₅	16.1	⁻⁸⁴	₋₄	10.2	⁻⁸⁹	₋₄	3.9	⁻⁹⁴	₋₃	-5.6	⁻⁹⁷	₋₂	-15.3					
Jun 12	40.4	⁻⁶	₋₆	40.0	⁻¹⁸	₋₆	38.8	⁻²⁹	₋₆	36.7	⁻⁴⁰	₋₅	33.9	⁻⁵⁰	₋₅	30.4	⁻⁶⁰	₋₅	26.1	⁻⁶⁹	₋₄	21.3	⁻⁷⁷	₋₄	15.9	⁻⁸³	₋₄	10.1	⁻⁸⁸	₋₃	3.9	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₂	-15.1					
Jun 13	40.0	⁻⁶	₋₅	39.6	⁻¹⁷	₋₄	38.4	⁻²⁹	₋₄	36.4	⁻⁴⁰	₋₄	33.6	⁻⁵⁰	₋₄	30.1	⁻⁵⁹	₋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					
Jun 14	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	₋₃	20.9	⁻⁷⁵	₋₂	15.6	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁵	₋₁	-14.9					
Jun 15	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	₋₂	15.6	⁻⁸¹	₋₁	9.8	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₋₁	-5.4	⁻⁹⁴	₋₁	-14.8					
Jun 16	39.3	⁻⁶	₋₁	38.9	⁻¹⁷	₋₁	37.7	⁻²⁸	₋₁	35.7	⁻³⁹	₋₁	33.0	⁻⁴⁹	₋₁	29.6	⁻⁵⁹	₋₁	25.4	⁻⁶⁷	₋₁	20.7	⁻⁷⁵	₋₁	15.5	⁻⁸¹	₋₁	9.8	⁻⁸⁶	₋₁	3.8	⁻⁹¹	₀	-5.3	⁻⁹⁴	₀	-14.7					
Jun 17	39.2	⁻⁶	₀	38.8	⁻¹⁷	₀	37.6	⁻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					
Jun 18	39.2	⁻⁶	₁																																							

2004

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
Jul 3	3	77.8 ⁻⁶	-5	77.4 ⁻¹⁹	-5	76.0 ⁻³²	-5	73.8 ⁻⁴⁴	-5	70.7 ⁻⁵⁶	-5	66.8 ⁻⁶⁶	-4	62.1 ⁻⁷⁶	-4	56.8 ⁻⁸⁴	-4	50.9 ⁻⁹²	-3	44.4 ⁻⁹⁷	-3	37.6 ⁻¹⁰³	-2	27.3 ⁻¹⁰⁶	-1	16.7		
Jul 4	4	77.2 ⁻⁶	-8	76.8 ⁻¹⁹	-8	75.4 ⁻³²	-7	73.2 ⁻⁴⁴	-7	70.1 ⁻⁵⁵	-7	66.2 ⁻⁶⁵	-6	61.6 ⁻⁷⁵	-6	56.3 ⁻⁸³	-5	50.5 ⁻⁹¹	-5	44.1 ⁻⁹⁶	-4	37.3 ⁻¹⁰²	-3	27.1 ⁻¹⁰⁵	-2	16.5		
Jul 5	5	76.3 ⁻⁶	-9	75.8 ⁻¹⁹	-9	74.5 ⁻³¹	-9	72.3 ⁻⁴³	-9	69.3 ⁻⁵⁴	-8	65.4 ⁻⁶⁵	-8	60.9 ⁻⁷⁴	-7	55.7 ⁻⁸²	-7	49.9 ⁻⁸⁹	-6	43.5 ⁻⁹⁵	-5	36.8 ⁻¹⁰⁰	-4	26.7 ⁻¹⁰³	-3	16.3		
Jul 6	6	75.1 ⁻⁶	-10	74.7 ⁻¹⁹	-10	73.4 ⁻³¹	-10	71.2 ⁻⁴²	-9	68.2 ⁻⁵³	-9	64.5 ⁻⁶⁴	-8	60.0 ⁻⁷³	-8	54.8 ⁻⁸¹	-7	49.1 ⁻⁸⁸	-6	42.9 ⁻⁹⁴	-5	36.3 ⁻⁹⁹	-4	26.3 ⁻¹⁰²	-3	16.1		
Jul 7	7	73.9 ⁻⁶	-10	73.5 ⁻¹⁸	-10	72.2 ⁻³⁰	-10	70.1 ⁻⁴²	-9	67.1 ⁻⁵³	-9	63.4 ⁻⁶³	-8	59.0 ⁻⁷²	-8	53.9 ⁻⁸⁰	-7	48.3 ⁻⁸⁷	-6	42.2 ⁻⁹²	-5	35.7 ⁻⁹⁷	-4	25.9 ⁻¹⁰⁰	-3	15.8		
Jul 8	8	72.7 ⁻⁶	-9	72.3 ⁻¹⁸	-9	71.0 ⁻³⁰	-9	68.9 ⁻⁴¹	-8	66.0 ⁻⁵²	-8	62.4 ⁻⁶²	-8	58.1 ⁻⁷¹	-7	53.1 ⁻⁷⁹	-6	47.5 ⁻⁸⁵	-6	41.5 ⁻⁹¹	-5	35.1 ⁻⁹⁶	-4	25.5 ⁻⁹⁹	-3	15.6		
Jul 9	9	71.6 ⁻⁶	-8	71.2 ⁻¹⁸	-8	70.0 ⁻²⁹	-8	67.9 ⁻⁴⁰	-7	65.0 ⁻⁵¹	-7	61.5 ⁻⁶¹	-7	57.2 ⁻⁷⁰	-6	52.3 ⁻⁷⁷	-5	46.8 ⁻⁸⁴	-5	40.9 ⁻⁸⁹	-4	34.6 ⁻⁹⁴	-3	25.1 ⁻⁹⁷	-2	15.3		
Jul 10	10	70.7 ⁻⁶	-6	70.3 ⁻¹⁸	-6	69.0 ⁻²⁹	-6	67.0 ⁻⁴⁰	-6	64.2 ⁻⁵⁰	-6	60.6 ⁻⁶⁰	-5	56.4 ⁻⁶⁹	-5	51.6 ⁻⁷⁶	-4	46.2 ⁻⁸³	-4	40.4 ⁻⁸⁸	-3	34.1 ⁻⁹³	-3	24.8 ⁻⁹⁶	-2	15.1		
Jul 11	11	69.9 ⁻⁶	-5	69.5 ⁻¹⁷	-5	68.3 ⁻²⁹	-5	66.3 ⁻⁴⁰	-4	63.5 ⁻⁵⁰	-4	60.0 ⁻⁵⁹	-4	55.8 ⁻⁶⁸	-4	51.0 ⁻⁷⁶	-3	45.7 ⁻⁸²	-3	39.9 ⁻⁸⁸	-3	33.8 ⁻⁹²	-2	24.5 ⁻⁹⁵	-1	15.0		
Jul 12	12	69.4 ⁻⁶	-3	68.9 ⁻¹⁷	-3	67.7 ⁻²⁹	-3	65.7 ⁻³⁹	-3	63.0 ⁻⁵⁰	-3	59.5 ⁻⁵⁹	-3	55.4 ⁻⁶⁸	-2	50.6 ⁻⁷⁵	-2	45.3 ⁻⁸²	-2	39.6 ⁻⁸⁷	-2	33.5 ⁻⁹²	-1	24.3 ⁻⁹⁴	-1	14.9		
Jul 13	13	69.0 ⁻⁶	-2	68.6 ⁻¹⁷	-2	67.4 ⁻²⁸	-2	65.4 ⁻³⁹	-2	62.6 ⁻⁴⁹	-2	59.2 ⁻⁵⁹	-1	55.0 ⁻⁶⁷	-1	50.3 ⁻⁷⁵	-1	45.1 ⁻⁸¹	-1	39.4 ⁻⁸⁷	-1	33.3 ⁻⁹¹	-1	24.2 ⁻⁹⁴	-1	14.8		
Jul 14	14	68.8 ⁻⁶	0	68.4 ⁻¹⁷	0	67.1 ⁻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		
Jul 15	15	68.7 ⁻⁶	1	68.3 ⁻¹⁷	1	67.1 ⁻²⁸	1	65.1 ⁻³⁹	1	62.4 ⁻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		
Jul 16	16	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		
Jul 17	17	69.0 ⁻⁶	3	68.6 ⁻¹⁷	3	67.4 ⁻²⁸	2	65.4 ⁻³⁹	2	62.6 ⁻⁵⁰	2	59.2 ⁻⁵⁹	2	55.1 ⁻⁶⁸	2	50.3 ⁻⁷⁵	2	45.1 ⁻⁸²	2	39.4 ⁻⁸⁷	1	33.3 ⁻⁹¹	1	24.2 ⁻⁹⁴	1	14.8		
Jul 18	18	69.3 ⁻⁶	3	68.9 ⁻¹⁷	3	67.7 ⁻²⁹	3	65.7 ⁻⁴⁰	3	62.9 ⁻⁵⁰	3	59.4 ⁻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		
Jul 19	19	69.7 ⁻⁶	4	69.3 ⁻¹⁷	4	68.1 ⁻²⁹	4	66.1 ⁻⁴⁰	4	63.3 ⁻⁵⁰	4	59.8 ⁻⁶⁰	3	55.6 ⁻⁶⁸	3	50.9 ⁻⁷⁶	3	45.5 ⁻⁸³	3	39.8 ⁻⁸⁸	2	33.7 ⁻⁹³	2	24.4 ⁻⁹⁵	1	14.9		
Jul 20	20	70.2 ⁻⁶	5	69.8 ⁻¹⁸	5	68.5 ⁻²⁹	5	66.5 ⁻⁴⁰	5	63.7 ⁻⁵⁰	4	60.2 ⁻⁶⁰	4	56.0 ⁻⁶⁹	4	51.2 ⁻⁷⁷	3	45.9 ⁻⁸³	3	40.1 ⁻⁸⁹	3	33.9 ⁻⁹³	2	24.6 ⁻⁹⁶	1	15.0		
Jul 21	21	70.8 ⁻⁶	6	70.4 ⁻¹⁸	6	69.1 ⁻²⁹	5	67.1 ⁻⁴⁰	5	64.3 ⁻⁵¹	5	60.7 ⁻⁶¹	5	56.5 ⁻⁷⁰	4	51.6 ⁻⁷⁷	4	46.3 ⁻⁸⁴	3	40.4 ⁻⁸⁹	3	34.2 ⁻⁹⁴	2	24.8 ⁻⁹⁷	2	15.2		
Jul 22	22	71.5 ⁻⁶	6	71.0 ⁻¹⁸	6	69.8 ⁻³⁰	6	67.7 ⁻⁴¹	6	64.9 ⁻⁵¹	6	61.3 ⁻⁶¹	5	57.0 ⁻⁷⁰	5	52.1 ⁻⁷⁸	4	46.7 ⁻⁸⁵	4	40.8 ⁻⁹⁰	3	34.5 ⁻⁹⁵	3	25.1 ⁻⁹⁸	2	15.3		
Jul 23	23	72.2 ⁻⁶	7	71.8 ⁻¹⁸	7	70.5 ⁻³⁰	7	68.5 ⁻⁴¹	7	65.6 ⁻⁵²	6	62.0 ⁻⁶²	6	57.6 ⁻⁷¹	5	52.7 ⁻⁷⁹	5	47.2 ⁻⁸⁶	4	41.2 ⁻⁹¹	4	34.9 ⁻⁹⁶	3	25.3 ⁻⁹⁹	2	15.5		
Jul 24	24	73.1 ⁻⁶	8	72.7 ⁻¹⁸	8	71.4 ⁻³⁰	7	69.3 ⁻⁴²	7	66.4 ⁻⁵³	7	62.7 ⁻⁶³	6	58.3 ⁻⁷²	6	53.3 ⁻⁸⁰	5	47.8 ⁻⁸⁷	5	41.7 ⁻⁹²	4	35.3 ⁻⁹⁷	3	25.6 ⁻¹⁰⁰	2	15.6		
Jul 25	25	74.0 ⁻⁶	8	73.6 ⁻¹⁹	8	72.3 ⁻³¹	8	70.1 ⁻⁴²	7	67.2 ⁻⁵³	7	63.5 ⁻⁶⁴	6	59.1 ⁻⁷³	6	54.0 ⁻⁸¹	5	48.4 ⁻⁸⁸	5	42.2 ⁻⁹⁴	4	35.7 ⁻⁹⁹	3	25.9 ⁻¹⁰²	2	15.8		
Jul 26	26	74.9 ⁻⁶	7	74.5 ⁻¹⁹	7	73.2 ⁻³¹	7	71.0 ⁻⁴³	7	68.0 ⁻⁵⁴	7	64.3 ⁻⁶⁴	6	59.8 ⁻⁷⁴	6	54.7 ⁻⁸²	5	49.0 ⁻⁸⁹	5	42.8 ⁻⁹⁵	4	36.2 ⁻¹⁰⁰	3	26.3 ⁻¹⁰³	2	16.0		
Jul 27	27	75.8 ⁻⁶	6	75.4 ⁻¹⁹	6	74.1 ⁻³¹	6	71.9 ⁻⁴³	6	68.9 ⁻⁵⁵	6	65.1 ⁻⁶⁵	5	60.5 ⁻⁷⁵	5	55.3 ⁻⁸³	4	49.6 ⁻⁹⁰	4	43.3 ⁻⁹⁶	3	36.6 ⁻¹⁰¹	3	26.6 ⁻¹⁰⁴	2	16.2		
Jul 28	28	76.6 ⁻⁶	5	76.2 ⁻¹⁹	5	74.8 ⁻³²	4	72.6 ⁻⁴⁴	4	69.6 ⁻⁵⁵	4	65.7 ⁻⁶⁶	4	61.1 ⁻⁷⁵	4	55.9 ⁻⁸⁴	3	50.1 ⁻⁹¹	3	43.7 ⁻⁹⁷	2	37.0 ⁻¹⁰²	2	26.9 ⁻¹⁰⁵	1	16.4		
Jul 29	29	77.2 ⁻⁶	2	76.7 ⁻¹⁹	2	75.4 ⁻³²	2	73.1 ⁻⁴⁴	2	70.1 ⁻⁵⁵	2	66.2 ⁻⁶⁶	2	61.6 ⁻⁷⁶	2	56.3 ⁻⁸⁴	2	50.4 ⁻⁹¹	1	44.0 ⁻⁹⁷	1	37.3 ⁻¹⁰²	1	27.1 ⁻¹⁰⁵	1	16.5		
Jul 30	30	77.4 ⁻⁶	-1	77.0 ⁻¹⁹	-1	75.6 ⁻³²	-1	73.4 ⁻⁴⁴	-1	70.3 ⁻⁵⁵	-1	66.4 ⁻⁶⁶	-1	61.8 ⁻⁷⁶	-1	56.5 ⁻⁸⁴	0	50.6 ⁻⁹¹	0	44.2 ⁻⁹⁷	0	37.4 ⁻¹⁰²	0	27.1 ⁻¹⁰⁶	0	16.6		
Jul 31	31	77.3 ⁻⁶	-4	76.9 ⁻¹⁹	-4	75.5 ⁻³²	-4	73.3 ⁻⁴⁴	-3	70.2 ⁻⁵⁵	-3	66.3 ⁻⁶⁶	-3	61.7 ⁻⁷⁵	-3	56.4 ⁻⁸⁴	-3	50.5 ⁻⁹¹	-2	44.2 ⁻⁹⁷	-2	37.3 ⁻¹⁰²	-2	27.1 ⁻¹⁰⁵	-1	16.6		
Aug 1	1	76.9 ⁻⁶	-6	76.4 ⁻¹⁹	-6	75.1 ⁻³²	-6	72.9 ⁻⁴⁴	-6	69.8 ⁻⁵⁵	-6	66.0 ⁻⁶⁵	-5	61.4 ⁻⁷⁵	-5	56.1 ⁻⁸³	-4	50.3 ⁻⁹⁰	-4	43.9 ⁻⁹⁶	-3	37.1 ⁻¹⁰¹	-3	27.0 ⁻¹⁰⁴	-2	16.5		
Aug 2	2	76.1 ⁻⁶	-8	75.7 ⁻¹⁹	-8	74.4 ⁻³¹	-8	72.2 ⁻⁴³	-8	69.1 ⁻⁵⁴	-7	65.3 ⁻⁶⁵	-7	60.8 ⁻⁷⁴	-6	55.6 ⁻⁸²	-6	49.8 ⁻⁸⁹	-5	43.5 ⁻⁹⁵	-4	36.8 ⁻¹⁰⁰	-3	26.7 ⁻¹⁰³	-2	16.3		
Aug 3	3	75.1 ⁻⁶	-9	74.7 ⁻¹⁹	-9	73.4 ⁻³¹	-9	71.2 ⁻⁴²	-9	68.2 ⁻⁵³	-8	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		
Aug 4	4	74.0 ⁻⁶	-10	73.6 ⁻¹⁸	-10	72.3 ⁻³⁰	-9	70.2 ⁻⁴²	-9	67.2 ⁻⁵³	-9	63.5 ⁻⁶³	-8	59.1 ⁻⁷²	-7	54.0 ⁻⁸⁰	-7	48.4 ⁻⁸⁷	-6	42.3 ⁻⁹²	-5	35.7 ⁻⁹⁷	-4	25.9 ⁻¹⁰⁰	-3	15.8		
Aug 5	5	72.9 ⁻⁶	-9	72.4 ⁻¹⁸	-9	71.2 ⁻³⁰	-9	69.1 ⁻⁴¹	-8	66.2 ⁻⁵²	-8	62.5 ⁻⁶²	-8	58.1 ⁻⁷¹	-7	53.2 ⁻⁷⁹	-6	47.6 ⁻⁸⁵	-6	41.6 ⁻⁹¹	-5	35.2 ⁻⁹⁶	-4	25.5 ⁻⁹⁹	-3	15.6		
Aug 6	6	71.8 ⁻⁶	-8	71.3 ⁻¹⁸	-8	70.1 ⁻²⁹	-8	68.0 ⁻⁴¹	-7	65.2 ⁻⁵¹	-7	61.6 ⁻⁶¹	-7	57.3 ⁻⁷⁰	-6	52.4 ⁻⁷⁸	-6	46.9 ⁻⁸⁴	-5	41.0 ⁻⁹⁰	-4	34.7 ⁻⁹⁴	-3	25.2 ⁻⁹⁷	-2	15.4		
Aug 7	7	70.8 ⁻⁶	-7	70.4 ⁻¹⁸	-6	69.1 ⁻²⁹	-6	67.1 ⁻⁴⁰	-6	64.3 ⁻⁵⁰	-6	60.7 ⁻⁶⁰	-5	56.5 ⁻⁶⁹	-5	51.7 ⁻⁷⁷	-5	46.3 ⁻⁸³	-4	40.4 ⁻⁸⁸	-3	34.2 ⁻⁹³	-3	24.8 ⁻⁹⁶	-2	15.2		
Aug 8	8	70.0 ⁻⁶	-5	69.6 ⁻¹⁷	-5	68.4 ⁻²⁹	-5	66.3 ⁻⁴⁰	-5	63.6 ⁻⁵⁰	-4	60.1 ⁻⁵⁹	-4	55.9 ⁻⁶⁸	-4	51.1 ⁻⁷⁶	-3	45.8 ⁻⁸²	-3	40.0 ⁻⁸⁸	-3	33.8 ⁻⁹²	-2	24.5 ⁻⁹⁵	-1	15.0		
Aug 9	9	69.4 ⁻⁶	-3	69.0 ⁻¹⁷	-3	67.8 ⁻²⁹	-3	65.8 ⁻³⁹	-3	63.0 ⁻⁵⁰	-3	59.5 ⁻⁵⁹	-3	55.4 ⁻⁶⁸	-2	50.7 ⁻⁷⁵	-2	45.4 ⁻⁸²	-2	39.6 ⁻⁸⁷	-2	33.5 ⁻⁹²	-1	24.3 ⁻⁹⁴	-1	14.9		
Aug 10	10	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	-1	39.4 ⁻⁸⁷	-1	33.3 ⁻⁹¹	-1	24.2 ⁻⁹⁴	0	14.8		
Aug 11	11	68.9 ⁻⁶	0	68.5 ⁻¹⁷	0	67.3 ⁻²⁸	0	65.3 ⁻³⁹	0	62.5 ⁻⁴⁹	0	59.1 ⁻⁵⁹	0	55.0 ⁻⁶⁷	0	50.3 ⁻⁷⁵	0	45.0 ⁻⁸¹	0	39.3 ⁻⁸⁷	0	33.3 ⁻⁹¹	0	24.1 ⁻⁹⁴	0	14.7		
Aug 12	12	68.9 ⁻⁶	2	68.5 ⁻¹⁷	2	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								

2004

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	'	a	t
Jul 3	3	44.5	⁻⁶	₋₅	44.0	⁻¹⁹	₋₅	42.7	⁻³²	₋₅	40.4	⁻⁴⁴	₋₅	37.3	⁻⁵⁶	₋₅	33.4	⁻⁶⁶	₋₄	28.8	⁻⁷⁶	₋₄	23.5	⁻⁸⁴	₋₄	17.5	⁻⁹²	₋₃	11.1	⁻⁹⁷	₋₃	4.3	⁻¹⁰³	₋₂	-6.0	⁻¹⁰⁶	₋₁	-16.7								
Jul 4	4	44.1	⁻⁶	₋₈	43.7	⁻¹⁹	₋₈	42.3	⁻³²	₋₇	40.1	⁻⁴⁴	₋₇	37.0	⁻⁵⁵	₋₇	33.2	⁻⁶⁵	₋₆	28.6	⁻⁷⁵	₋₆	23.3	⁻⁸³	₋₅	17.4	⁻⁹¹	₋₅	11.0	⁻⁹⁶	₋₄	4.2	⁻¹⁰²	₋₃	-6.0	⁻¹⁰⁵	₋₂	-16.5								
Jul 5	5	43.6	⁻⁶	₋₉	43.2	⁻¹⁹	₋₉	41.8	⁻³¹	₋₉	39.6	⁻⁴³	₋₉	36.6	⁻⁵⁴	₋₈	32.8	⁻⁶⁵	₋₈	28.2	⁻⁷⁴	₋₇	23.0	⁻⁸²	₋₇	17.2	⁻⁸⁹	₋₆	10.9	⁻⁹⁵	₋₅	4.2	⁻¹⁰⁰	₋₄	-5.9	⁻¹⁰³	₋₃	-16.3								
Jul 6	6	43.0	⁻⁶	₋₁₀	42.5	⁻¹⁹	₋₁₀	41.2	⁻³¹	₋₁₀	39.0	⁻⁴²	₋₉	36.0	⁻⁵³	₋₉	32.3	⁻⁶⁴	₋₈	27.8	⁻⁷³	₋₈	22.7	⁻⁸¹	₋₇	16.9	⁻⁸⁸	₋₆	10.7	⁻⁹⁴	₋₅	4.1	⁻⁹⁹	₋₄	-5.8	⁻¹⁰²	₋₃	-16.1								
Jul 7	7	42.3	⁻⁶	₋₁₀	41.8	⁻¹⁸	₋₁₀	40.5	⁻³⁰	₋₁₀	38.4	⁻⁴²	₋₉	35.5	⁻⁵³	₋₉	31.8	⁻⁶³	₋₈	27.3	⁻⁷²	₋₈	22.3	⁻⁸⁰	₋₇	16.7	⁻⁸⁷	₋₆	10.5	⁻⁹²	₋₅	4.0	⁻⁹⁷	₋₄	-5.7	⁻¹⁰⁰	₋₃	-15.8								
Jul 8	8	41.6	⁻⁶	₋₉	41.2	⁻¹⁸	₋₉	39.9	⁻³⁰	₋₉	37.8	⁻⁴¹	₋₈	34.9	⁻⁵²	₋₈	31.2	⁻⁶²	₋₈	26.9	⁻⁷¹	₋₇	21.9	⁻⁷⁹	₋₆	16.4	⁻⁸⁵	₋₆	10.4	⁻⁹¹	₋₅	4.0	⁻⁹⁶	₋₄	-5.6	⁻⁹⁹	₋₃	-15.6								
Jul 9	9	41.0	⁻⁶	₋₈	40.5	⁻¹⁸	₋₈	39.3	⁻²⁹	₋₈	37.2	⁻⁴⁰	₋₇	34.4	⁻⁵¹	₋₇	30.8	⁻⁶¹	₋₇	26.5	⁻⁷⁰	₋₆	21.6	⁻⁷⁷	₋₅	16.1	⁻⁸⁴	₋₅	10.2	⁻⁸⁹	₋₄	3.9	⁻⁹⁴	₋₃	-5.6	⁻⁹⁷	₋₂	-15.3								
Jul 10	10	40.4	⁻⁶	₋₆	40.0	⁻¹⁸	₋₆	38.8	⁻²⁹	₋₆	36.7	⁻⁴⁰	₋₆	33.9	⁻⁵⁰	₋₆	30.4	⁻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								
Jul 11	11	40.0	⁻⁶	₋₅	39.6	⁻¹⁷	₋₅	38.3	⁻²⁹	₋₅	36.3	⁻⁴⁰	₋₄	33.5	⁻⁵⁰	₋₄	30.0	⁻⁵⁹	₋₄	25.9	⁻⁶⁸	₋₄	21.1	⁻⁷⁶	₋₃	15.8	⁻⁸²	₋₃	10.0	⁻⁸⁸	₋₃	3.8	⁻⁹²	₋₂	-5.4	⁻⁹⁵	₋₁	-15.0								
Jul 12	12	39.6	⁻⁶	₋₃	39.2	⁻¹⁷	₋₃	38.0	⁻²⁹	₋₃	36.0	⁻³⁹	₋₃	33.3	⁻⁵⁰	₋₃	29.8	⁻⁵⁹	₋₃	25.6	⁻⁶⁸	₋₂	20.9	⁻⁷⁵	₋₂	15.6	⁻⁸²	₋₂	9.9	⁻⁸⁷	₋₂	3.8	⁻⁹²	₋₁	-5.4	⁻⁹⁴	₋₁	-14.9								
Jul 13	13	39.4	⁻⁶	₋₂	39.0	⁻¹⁷	₋₂	37.8	⁻²⁸	₋₂	35.8	⁻³⁹	₋₂	33.1	⁻⁴⁹	₋₂	29.6	⁻⁵⁹	₋₁	25.5	⁻⁶⁷	₋₁	20.8	⁻⁷⁵	₋₁	15.5	⁻⁸¹	₋₁	9.8	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₋₁	-5.4	⁻⁹⁴	₋₁	-14.8								
Jul 14	14	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 15	15	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	₀	15.5	⁻⁸¹	₀	9.8	⁻⁸⁶	₀	3.8	⁻⁹¹	₀	-5.3	⁻⁹⁴	₀	-14.7								
Jul 16	16	39.3	⁻⁶	₂	38.9	⁻¹⁷	₂	37.7	⁻²⁸	₂	35.7	⁻³⁹	₂	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								
Jul 17	17	39.4	⁻⁶	₃	39.0	⁻¹⁷	₃	37.8	⁻²⁸	₂	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	⁻⁹¹	₁	-5.4	⁻⁹⁴	₁	-14.8								
Jul 18	18	39.6	⁻⁶	₃	39.2	⁻¹⁷	₃	38.0	⁻²⁹	₃	36.0	⁻⁴⁰	₃	33.2	⁻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								
Jul 19	19	39.8	⁻⁶	₄	39.4	⁻¹⁷	₄	38.2	⁻²⁹	₄	36.2	⁻⁴⁰	₄	33.4	⁻⁵⁰	₄	29.9	⁻⁶⁰	₃	25.8	⁻⁶⁸	₃	21.0	⁻⁷⁶	₃	15.7	⁻⁸³	₃	9.9	⁻⁸⁸	₂	3.8	⁻⁹³	₂	-5.4	⁻⁹⁵	₁	-14.9								
Jul 20	20	40.1	⁻⁶	₅	39.7	⁻¹⁸	₅	38.5	⁻²⁹	₅	36.5	⁻⁴⁰	₅	33.7	⁻⁵⁰	₄	30.1	⁻⁶⁰	₄	26.0	⁻⁶⁹	₄	21.2	⁻⁷⁷	₃	15.8	⁻⁸³	₃	10.0	⁻⁸⁹	₃	3.8	⁻⁹³	₂	-5.5	⁻⁹⁶	₁	-15.0								
Jul 21	21	40.5	⁻⁶	₆	40.0	⁻¹⁸	₆	38.8	⁻²⁹	₅	36.8	⁻⁴⁰	₅	33.9	⁻⁵¹	₅	30.4	⁻⁶¹	₅	26.2	⁻⁷⁰	₄	21.3	⁻⁷⁷	₄	15.9	⁻⁸⁴	₃	10.1	⁻⁸⁹	₃	3.9	⁻⁹⁴	₂	-5.5	⁻⁹⁷	₂	-15.2								
Jul 22	22	40.8	⁻⁶	₆	40.4	⁻¹⁸	₆	39.2	⁻³⁰	₆	37.1	⁻⁴¹	₆	34.3	⁻⁵¹	₆	30.7	⁻⁶¹	₅	26.4	⁻⁷⁰	₅	21.5	⁻⁷⁸	₄	16.1	⁻⁸⁵	₄	10.2	⁻⁹⁰	₃	3.9	⁻⁹⁵	₃	-5.6	⁻⁹⁸	₂	-15.3								
Jul 23	23	41.3	⁻⁶	₇	40.9	⁻¹⁸	₇	39.6	⁻³⁰	₇	37.5	⁻⁴¹	₇	34.6	⁻⁵²	₆	31.0	⁻⁶²	₆	26.7	⁻⁷¹	₅	21.8	⁻⁷⁹	₅	16.3	⁻⁸⁶	₄	10.3	⁻⁹¹	₄	3.9	⁻⁹⁶	₃	-5.6	⁻⁹⁹	₂	-15.5								
Jul 24	24	41.8	⁻⁶	₈	41.4	⁻¹⁸	₈	40.1	⁻³⁰	₇	38.0	⁻⁴²	₇	35.1	⁻⁵³	₇	31.4	⁻⁶³	₆	27.0	⁻⁷²	₆	22.0	⁻⁸⁰	₅	16.5	⁻⁸⁷	₅	10.4	⁻⁹²	₄	4.0	⁻⁹⁷	₃	-5.7	⁻¹⁰⁰	₂	-15.6								
Jul 25	25	42.3	⁻⁶	₈	41.9	⁻¹⁹	₈	40.6	⁻³¹	₈	38.4	⁻⁴²	₇	35.5	⁻⁵³	₇	31.8	⁻⁶⁴	₆	27.4	⁻⁷³	₆	22.3	⁻⁸¹	₅	16.7	⁻⁸⁸	₅	10.6	⁻⁹⁴	₄	4.0	⁻⁹⁹	₃	-5.7	⁻¹⁰²	₂	-15.8								
Jul 26	26	42.8	⁻⁶	₇	42.4	⁻¹⁹	₇	41.1	⁻³¹	₇	38.9	⁻⁴³	₇	35.9	⁻⁵⁴	₇	32.2	⁻⁶⁴	₆	27.7	⁻⁷⁴	₆	22.6	⁻⁸²	₅	16.9	⁻⁸⁹	₅	10.7	⁻⁹⁵	₄	4.1	⁻¹⁰⁰	₃	-5.8	⁻¹⁰³	₂	-16.0								
Jul 27	27	43.4	⁻⁶	₆	42.9	⁻¹⁹	₆	41.6	⁻³¹	₆	39.4	⁻⁴³	₆	36.4	⁻⁵⁵	₆	32.6	⁻⁶⁵	₅	28.0	⁻⁷⁵	₅	22.9	⁻⁸³	₄	17.1	⁻⁹⁰	₄	10.8	⁻⁹⁶	₃	4.1	⁻¹⁰¹	₃	-5.9	⁻¹⁰⁴	₂	-16.2								
Jul 28	28	43.8	⁻⁶	₅	43.3	⁻¹⁹	₅	42.0	⁻³²	₄	39.8	⁻⁴⁴	₄	36.7	⁻⁵⁵	₄	32.9	⁻⁶⁶	₄	28.3	⁻⁷⁵	₄	23.1	⁻⁸⁴	₃	17.3	⁻⁹¹	₃	10.9	⁻⁹⁷	₂	4.2	⁻¹⁰²	₂	-6.0	⁻¹⁰⁵	₁	-16.4								
Jul 29	29	44.1	⁻⁶	₂	43.7	⁻¹⁹	₂	42.3	⁻³²	₂	40.1	⁻⁴⁴	₂	37.0	⁻⁵⁵	₂	33.1	⁻⁶⁶	₂	28.5	⁻⁷⁶	₂	23.3	⁻⁸⁴	₂	17.4	⁻⁹¹	₁	11.0	⁻⁹⁷	₁	4.2	⁻¹⁰²	₁	-6.0	⁻¹⁰⁵	₁	-16.5								
Jul 30	30	44.3	⁻⁶	₋₁	43.8	⁻¹⁹	₋₁	42.5	⁻³²	₋₁	40.2	⁻⁴⁴	₋₁	37.1	⁻⁵⁵	₋₁	33.3	⁻⁶⁶	₋₁	28.6	⁻⁷⁶	₋₁	23.3	⁻⁸⁴	₀	17.4	⁻⁹¹	₀	11.0	⁻⁹⁷	₀	4.2	⁻¹⁰²	₀	-6.0	⁻¹⁰⁶	₀	-16.6								
Jul 31	31	44.2	⁻⁶	₋₄	43.8	⁻¹⁹	₋₄	42.4	⁻³²	₋₄	40.2	⁻⁴⁴	₋₃	37.1	⁻⁵⁵	₋₃	33.2	⁻⁶⁶	₋₃	28.6	⁻⁷⁵	₋₃	23.3	⁻⁸⁴	₋₃	17.4	⁻⁹¹	₋₂	11.0	⁻⁹⁷	₋₂	4.2	⁻¹⁰²	₋₂	-6.0	⁻¹⁰⁵	₋₁	-16.6								
Aug 1	1	44.0	⁻⁶	₋₆	43.5	⁻¹⁹	₋₆	42.2	⁻³²	₋₆	39.9	⁻⁴⁴	₋₆	36.9	⁻⁵⁵	₋₆	33.0	⁻⁶⁵	₋₅	28.4	⁻⁷⁵	₋₅	23.2	⁻⁸³	₋₄	17.3	⁻⁹⁰	₋₄	11.0	⁻⁹⁶	₋₃	4.2	⁻¹⁰¹	₋₃	-6.0	⁻¹⁰⁴	₋₂	-16.5								
Aug 2	2	43.5	⁻⁶	₋₈	43.1	⁻¹⁹	₋₈	41.8	⁻³¹	₋₈	39.6	⁻⁴³	₋₈	36.5	⁻⁵⁴	₋₇	32.7	⁻⁶⁵																												

2004

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
Aug 18	40.9	⁻⁶	₅	40.5	⁻¹⁸	₅	39.2	⁻³⁰	₅	37.2	⁻⁴¹	₅	34.3	⁻⁵¹	₅	30.7	⁻⁶¹	₄	26.5	⁻⁷⁰	₄	21.6	⁻⁷⁸	₄	16.1	⁻⁸⁵	₃	10.2	⁻⁹⁰	₃	3.9	⁻⁹⁵	₂	-5.6	⁻⁹⁸	₁	-15.3					
Aug 19	41.2	⁻⁶	₅	40.8	⁻¹⁸	₅	39.6	⁻³⁰	₅	37.5	⁻⁴¹	₅	34.6	⁻⁵²	₅	31.0	⁻⁶²	₄	26.7	⁻⁷¹	₄	21.7	⁻⁷⁹	₄	16.3	⁻⁸⁶	₃	10.3	⁻⁹¹	₃	3.9	⁻⁹⁶	₂	-5.6	⁻⁹⁹	₂	-15.5					
Aug 20	41.6	⁻⁶	₅	41.2	⁻¹⁸	₅	39.9	⁻³⁰	₅	37.8	⁻⁴²	₅	34.9	⁻⁵²	₅	31.3	⁻⁶²	₅	26.9	⁻⁷²	₄	21.9	⁻⁸⁰	₄	16.4	⁻⁸⁶	₃	10.4	⁻⁹²	₃	4.0	⁻⁹⁷	₂	-5.7	⁻¹⁰⁰	₂	-15.6					
Aug 21	42.0	⁻⁶	₅	41.6	⁻¹⁸	₅	40.3	⁻³⁰	₅	38.2	⁻⁴²	₅	35.2	⁻⁵³	₅	31.6	⁻⁶³	₅	27.2	⁻⁷²	₄	22.1	⁻⁸⁰	₄	16.6	⁻⁸⁷	₃	10.5	⁻⁹³	₃	4.0	⁻⁹⁸	₂	-5.7	⁻¹⁰¹	₂	-15.7					
Aug 22	42.4	⁻⁶	₅	41.9	⁻¹⁹	₅	40.6	⁻³¹	₅	38.5	⁻⁴²	₅	35.6	⁻⁵³	₅	31.8	⁻⁶⁴	₄	27.4	⁻⁷³	₄	22.3	⁻⁸¹	₄	16.7	⁻⁸⁸	₃	10.6	⁻⁹⁴	₃	4.0	⁻⁹⁹	₂	-5.8	⁻¹⁰²	₂	-15.9					
Aug 23	42.7	⁻⁶	₅	42.3	⁻¹⁹	₅	41.0	⁻³¹	₅	38.8	⁻⁴³	₅	35.9	⁻⁵⁴	₄	32.1	⁻⁶⁴	₄	27.7	⁻⁷³	₄	22.5	⁻⁸²	₃	16.8	⁻⁸⁹	₃	10.7	⁻⁹⁴	₃	4.1	⁻⁹⁹	₂	-5.8	⁻¹⁰²	₁	-16.0					
Aug 24	43.1	⁻⁶	₄	42.6	⁻¹⁹	₄	41.3	⁻³¹	₄	39.2	⁻⁴³	₄	36.2	⁻⁵⁴	₄	32.4	⁻⁶⁵	₄	27.9	⁻⁷⁴	₃	22.7	⁻⁸²	₃	17.0	⁻⁸⁹	₃	10.7	⁻⁹⁵	₂	4.1	⁻¹⁰⁰	₂	-5.9	⁻¹⁰³	₁	-16.1					
Aug 25	43.4	⁻⁶	₃	42.9	⁻¹⁹	₃	41.6	⁻³¹	₃	39.4	⁻⁴³	₃	36.4	⁻⁵⁴	₃	32.6	⁻⁶⁵	₃	28.1	⁻⁷⁴	₂	22.9	⁻⁸³	₂	17.1	⁻⁹⁰	₂	10.8	⁻⁹⁶	₂	4.1	⁻¹⁰¹	₁	-5.9	⁻¹⁰⁴	₁	-16.2					
Aug 26	43.6	⁻⁶	₁	43.1	⁻¹⁹	₁	41.8	⁻³¹	₁	39.6	⁻⁴³	₁	36.6	⁻⁵⁵	₁	32.7	⁻⁶⁵	₁	28.2	⁻⁷⁵	₁	23.0	⁻⁸³	₁	17.2	⁻⁹⁰	₁	10.9	⁻⁹⁶	₁	4.2	⁻¹⁰¹	₁	-5.9	⁻¹⁰⁴	₀	-16.3					
Aug 27	43.7	⁻⁶	₋₁	43.2	⁻¹⁹	₋₁	41.9	⁻³¹	₋₁	39.7	⁻⁴³	₋₁	36.7	⁻⁵⁵	₀	32.8	⁻⁶⁵	₀	28.3	⁻⁷⁵	₀	23.0	⁻⁸³	₀	17.2	⁻⁹⁰	₀	10.9	⁻⁹⁶	₀	4.2	⁻¹⁰¹	₀	-5.9	⁻¹⁰⁴	₀	-16.4					
Aug 28	43.6	⁻⁶	₋₃	43.2	⁻¹⁹	₋₃	41.9	⁻³¹	₋₃	39.7	⁻⁴³	₋₃	36.6	⁻⁵⁵	₋₂	32.8	⁻⁶⁵	₋₂	28.2	⁻⁷⁴	₋₂	23.0	⁻⁸³	₋₂	17.2	⁻⁹⁰	₋₂	10.9	⁻⁹⁶	₋₁	4.2	⁻¹⁰¹	₋₁	-5.9	⁻¹⁰⁴	₋₁	-16.3					
Aug 29	43.5	⁻⁶	₋₅	43.0	⁻¹⁹	₋₅	41.7	⁻³¹	₋₅	39.5	⁻⁴³	₋₅	36.5	⁻⁵⁴	₋₄	32.7	⁻⁶⁵	₋₄	28.1	⁻⁷⁴	₋₄	22.9	⁻⁸²	₋₃	17.1	⁻⁸⁹	₋₃	10.8	⁻⁹⁵	₋₃	4.2	⁻¹⁰⁰	₋₂	-5.9	⁻¹⁰³	₋₁	-16.3					
Aug 30	43.1	⁻⁶	₋₇	42.7	⁻¹⁹	₋₇	41.4	⁻³¹	₋₆	39.2	⁻⁴³	₋₆	36.2	⁻⁵⁴	₋₆	32.4	⁻⁶⁴	₋₆	27.9	⁻⁷³	₋₅	22.7	⁻⁸²	₋₅	17.0	⁻⁸⁹	₋₄	10.8	⁻⁹⁴	₋₄	4.1	⁻⁹⁹	₋₃	-5.9	⁻¹⁰²	₋₂	-16.2					
Aug 31	42.7	⁻⁶	₋₈	42.2	⁻¹⁹	₋₈	40.9	⁻³¹	₋₈	38.8	⁻⁴²	₋₇	35.8	⁻⁵³	₋₇	32.1	⁻⁶³	₋₇	27.6	⁻⁷³	₋₆	22.5	⁻⁸¹	₋₅	16.8	⁻⁸⁸	₋₅	10.6	⁻⁹³	₋₄	4.1	⁻⁹⁸	₋₃	-5.8	⁻¹⁰¹	₋₂	-16.0					
Sep 1	42.1	⁻⁶	₋₈	41.7	⁻¹⁸	₋₈	40.4	⁻³⁰	₋₈	38.3	⁻⁴²	₋₈	35.3	⁻⁵²	₋₇	31.7	⁻⁶²	₋₇	27.3	⁻⁷²	₋₆	22.2	⁻⁸⁰	₋₆	16.6	⁻⁸⁶	₋₅	10.5	⁻⁹²	₋₄	4.0	⁻⁹⁷	₋₃	-5.7	⁻¹⁰⁰	₋₂	-15.8					
Sep 2	41.6	⁻⁶	₋₈	41.1	⁻¹⁸	₋₈	39.9	⁻³⁰	₋₈	37.8	⁻⁴¹	₋₈	34.9	⁻⁵²	₋₇	31.2	⁻⁶²	₋₇	26.9	⁻⁷¹	₋₆	21.9	⁻⁷⁹	₋₆	16.4	⁻⁸⁵	₋₅	10.4	⁻⁹¹	₋₄	4.0	⁻⁹⁶	₋₃	-5.6	⁻⁹⁹	₋₂	-15.6					
Sep 3	41.0	⁻⁶	₋₇	40.6	⁻¹⁸	₋₇	39.3	⁻²⁹	₋₇	37.2	⁻⁴¹	₋₇	34.4	⁻⁵¹	₋₇	30.8	⁻⁶¹	₋₆	26.5	⁻⁷⁰	₋₆	21.6	⁻⁷⁷	₋₅	16.2	⁻⁸⁴	₋₅	10.2	⁻⁹⁰	₋₄	3.9	⁻⁹⁴	₋₃	-5.6	⁻⁹⁷	₋₂	-15.4					
Sep 4	40.5	⁻⁶	₋₆	40.1	⁻¹⁸	₋₆	38.8	⁻²⁹	₋₆	36.8	⁻⁴⁰	₋₆	34.0	⁻⁵⁰	₋₆	30.4	⁻⁶⁰	₋₅	26.2	⁻⁶⁹	₋₅	21.3	⁻⁷⁷	₋₄	15.9	⁻⁸³	₋₄	10.1	⁻⁸⁹	₋₃	3.9	⁻⁹³	₋₃	-5.5	⁻⁹⁶	₋₂	-15.2					
Sep 5	40.0	⁻⁶	₋₅	39.6	⁻¹⁷	₋₅	38.4	⁻²⁹	₋₅	36.4	⁻⁴⁰	₋₄	33.6	⁻⁵⁰	₋₄	30.1	⁻⁶⁰	₋₄	25.9	⁻⁶⁸	₋₄	21.1	⁻⁷⁶	₋₃	15.8	⁻⁸²	₋₃	10.0	⁻⁸⁸	₋₂	3.8	⁻⁹²	₋₂	-5.4	⁻⁹⁵	₋₁	-15.0					
Sep 6	39.7	⁻⁶	₋₃	39.3	⁻¹⁷	₋₃	38.1	⁻²⁹	₋₃	36.1	⁻³⁹	₋₃	33.3	⁻⁵⁰	₋₃	29.8	⁻⁵⁹	₋₂	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					
Sep 7	39.5	⁻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	20.8	⁻⁷⁵	₋₁	15.6	⁻⁸²	₋₁	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₀	-5.4	⁻⁹⁴	₀	-14.8					
Sep 8	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	₀	15.5	⁻⁸²	₀	9.8	⁻⁸⁷	₀	3.8	⁻⁹¹	₀	-5.4	⁻⁹⁴	₀	-14.8					
Sep 9	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					
Sep 10	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	-14.9					
Sep 11	39.9	⁻⁶	₅	39.5	⁻¹⁸	₅	38.3	⁻²⁹	₅	36.3	⁻⁴⁰	₅	33.5	⁻⁵⁰	₄	30.0	⁻⁶⁰	₄	25.8	⁻⁶⁹	₄	21.0	⁻⁷⁶	₃	15.7	⁻⁸³	₃	10.0	⁻⁸⁸	₃	3.8	⁻⁹³	₂	-5.4	⁻⁹⁶	₁	-14.9					
Sep 12	40.2	⁻⁶	₆	39.8	⁻¹⁸	₆	38.6	⁻²⁹	₅	36.6	⁻⁴⁰	₅	33.8	⁻⁵¹	₅	30.2	⁻⁶⁰	₅	26.0	⁻⁶⁹	₄	21.2	⁻⁷⁷	₄	15.9	⁻⁸⁴	₃	10.0	⁻⁸⁹	₃	3.8	⁻⁹⁴	₂	-5.5	⁻⁹⁷	₂	-15.1					
Sep 13	40.6	⁻⁶	₆	40.2	⁻¹⁸	₆	39.0	⁻²⁹	₆	36.9	⁻⁴¹	₆	34.1	⁻⁵¹	₅	30.5	⁻⁶¹	₅	26.3	⁻⁷⁰	₅	21.4	⁻⁷⁸	₄	16.0	⁻⁸⁴	₄	10.1	⁻⁹⁰	₃	3.9	⁻⁹⁴	₂	-5.5	⁻⁹⁷	₂	-15.2					
Sep 14	41.0	⁻⁶	₆	40.6	⁻¹⁸	₆	39.4	⁻³⁰	₆	37.3	⁻⁴¹	₆	34.4	⁻⁵²	₅	30.8	⁻⁶²	₅	26.5	⁻⁷¹	₅	21.6	⁻⁷⁸	₄	16.2	⁻⁸⁵	₄	10.2	⁻⁹¹	₃	3.9	⁻⁹⁵	₂	-5.6	⁻⁹⁸	₂	-15.4					
Sep 15	41.4	⁻⁶	₆	41.0	⁻¹⁸	₆	39.8	⁻³⁰	₅	37.7	⁻⁴¹	₅	34.8	⁻⁵²	₅	31.1	⁻⁶²	₅	26.8	⁻⁷¹	₄	21.9	⁻⁷⁹	₄	16.3	⁻⁸⁶	₃	10.3	⁻⁹²	₃	4.0	⁻⁹⁶	₂	-5.6	⁻⁹⁹	₂	-15.5					
Sep 16	41.8	⁻⁶	₅	41.4	⁻¹⁸	₅	40.1	⁻³⁰	₅	38.0	⁻⁴²	₅	35.1	⁻⁵³	₄	31.4	⁻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	₁	-15.7					
Sep 17	42.2	⁻⁶	₄	41.7	⁻¹⁸	₄	40.5	⁻³¹	₄	38.3	⁻⁴²	₄	35.4	⁻⁵³	₄	31.7	⁻⁶³	₄	27.3	⁻⁷²	₃	22.2	⁻⁸¹	₃	16.6	⁻⁸⁷	₃	10.5	⁻⁹³	₂	4.0	⁻⁹⁸	₂	-5.7	⁻¹⁰¹	₁	-15.8					
Sep 18	42.5	⁻⁶	₄																																							

2004

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
Oct 3	69.9	⁻⁶	₋₄	69.5	⁻¹⁷	₋₄	68.3	⁻²⁹	₋₄	66.3	⁻⁴⁰	₋₄	63.5	⁻⁵⁰	₋₄	60.0	⁻⁵⁹	₋₃	55.8	⁻⁶⁸	₋₃	51.0	⁻⁷⁶	₋₃	45.7	⁻⁸²	₋₃	39.9	⁻⁸⁸	₋₂	33.8	⁻⁹²	₋₂	24.5	⁻⁹⁵	₋₁	15.0					
Oct 4	69.4	⁻⁶	₋₃	69.0	⁻¹⁷	₋₃	67.8	⁻²⁹	₋₂	65.8	⁻³⁹	₋₂	63.0	⁻⁵⁰	₋₂	59.5	⁻⁵⁹	₋₂	55.4	⁻⁶⁸	₋₂	50.7	⁻⁷⁵	₋₂	45.4	⁻⁸²	₋₂	39.6	⁻⁸⁷	₋₁	33.5	⁻⁹²	₋₁	24.3	⁻⁹⁵	₋₁	14.9					
Oct 5	69.1	⁻⁶	₋₁	68.7	⁻¹⁷	₋₁	67.5	⁻²⁸	₋₁	65.5	⁻³⁹	₋₁	62.8	⁻⁴⁹	₋₁	59.3	⁻⁵⁹	₋₁	55.2	⁻⁶⁸	₋₁	50.4	⁻⁷⁵	₋₁	45.2	⁻⁸²	₀	39.5	⁻⁸⁷	₀	33.4	⁻⁹¹	₀	24.2	⁻⁹⁴	₀	14.8					
Oct 6	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	₀	24.2	⁻⁹⁴	₀	14.8					
Oct 7	69.1	⁻⁶	₃	68.7	⁻¹⁷	₃	67.5	⁻²⁹	₃	65.5	⁻³⁹	₃	62.8	⁻⁵⁰	₃	59.3	⁻⁵⁹	₂	55.2	⁻⁶⁸	₂	50.5	⁻⁷⁵	₂	45.2	⁻⁸²	₂	39.5	⁻⁸⁷	₂	33.4	⁻⁹²	₁	24.2	⁻⁹⁵	₁	14.8					
Oct 8	69.5	⁻⁶	₅	69.1	⁻¹⁷	₅	67.9	⁻²⁹	₄	65.9	⁻⁴⁰	₄	63.1	⁻⁵⁰	₄	59.6	⁻⁶⁰	₄	55.5	⁻⁶⁸	₄	50.7	⁻⁷⁶	₃	45.4	⁻⁸²	₃	39.7	⁻⁸⁸	₂	33.6	⁻⁹²	₂	24.4	⁻⁹⁵	₁	14.9					
Oct 9	70.0	⁻⁶	₆	69.6	⁻¹⁸	₆	68.4	⁻²⁹	₆	66.4	⁻⁴⁰	₆	63.6	⁻⁵⁰	₅	60.1	⁻⁶⁰	₅	55.9	⁻⁶⁹	₅	51.1	⁻⁷⁷	₄	45.8	⁻⁸³	₄	40.0	⁻⁸⁹	₃	33.8	⁻⁹³	₃	24.6	⁻⁹⁶	₂	15.0					
Oct 10	70.8	⁻⁶	₇	70.4	⁻¹⁸	₇	69.1	⁻²⁹	₇	67.1	⁻⁴⁰	₇	64.3	⁻⁵¹	₆	60.7	⁻⁶¹	₆	56.5	⁻⁷⁰	₅	51.6	⁻⁷⁷	₅	46.2	⁻⁸⁴	₄	40.4	⁻⁸⁹	₄	34.2	⁻⁹⁴	₃	24.8	⁻⁹⁷	₂	15.2					
Oct 11	71.6	⁻⁶	₈	71.2	⁻¹⁸	₇	69.9	⁻³⁰	₇	67.9	⁻⁴¹	₇	65.0	⁻⁵²	₇	61.4	⁻⁶²	₆	57.2	⁻⁷⁰	₆	52.3	⁻⁷⁸	₅	46.8	⁻⁸⁵	₅	40.9	⁻⁹¹	₄	34.6	⁻⁹⁵	₃	25.1	⁻⁹⁸	₂	15.3					
Oct 12	72.5	⁻⁶	₈	72.1	⁻¹⁸	₇	70.8	⁻³⁰	₇	68.7	⁻⁴¹	₇	65.9	⁻⁵²	₇	62.2	⁻⁶²	₆	57.9	⁻⁷¹	₆	52.9	⁻⁷⁹	₅	47.4	⁻⁸⁶	₅	41.4	⁻⁹²	₄	35.0	⁻⁹⁷	₃	25.4	⁻¹⁰⁰	₂	15.5					
Oct 13	73.4	⁻⁶	₇	73.0	⁻¹⁸	₇	71.7	⁻³⁰	₇	69.6	⁻⁴²	₆	66.7	⁻⁵³	₆	63.0	⁻⁶³	₆	58.6	⁻⁷²	₅	53.6	⁻⁸⁰	₅	48.0	⁻⁸⁷	₄	41.9	⁻⁹³	₄	35.5	⁻⁹⁸	₃	25.7	⁻¹⁰¹	₂	15.7					
Oct 14	74.3	⁻⁶	₆	73.8	⁻¹⁹	₆	72.5	⁻³¹	₆	70.4	⁻⁴²	₅	67.4	⁻⁵³	₅	63.7	⁻⁶⁴	₅	59.3	⁻⁷³	₄	54.2	⁻⁸¹	₄	48.5	⁻⁸⁸	₄	42.4	⁻⁹⁴	₃	35.9	⁻⁹⁹	₂	26.0	⁻¹⁰²	₂	15.9					
Oct 15	75.0	⁻⁶	₄	74.5	⁻¹⁹	₄	73.2	⁻³¹	₄	71.1	⁻⁴³	₄	68.1	⁻⁵⁴	₄	64.3	⁻⁶⁴	₄	59.8	⁻⁷⁴	₃	54.7	⁻⁸²	₃	49.0	⁻⁸⁹	₃	42.8	⁻⁹⁵	₂	36.2	⁻¹⁰⁰	₂	26.3	⁻¹⁰³	₁	16.1					
Oct 16	75.5	⁻⁶	₂	75.0	⁻¹⁹	₂	73.7	⁻³¹	₂	71.5	⁻⁴³	₂	68.5	⁻⁵⁴	₂	64.7	⁻⁶⁵	₂	60.2	⁻⁷⁴	₂	55.1	⁻⁸²	₂	49.3	⁻⁸⁹	₂	43.1	⁻⁹⁵	₁	36.4	⁻¹⁰⁰	₁	26.5	⁻¹⁰³	₁	16.2					
Oct 17	75.8	⁻⁶	₁	75.3	⁻¹⁹	₁	74.0	⁻³¹	₁	71.8	⁻⁴³	₁	68.8	⁻⁵⁴	₁	65.0	⁻⁶⁵	₁	60.5	⁻⁷⁴	₁	55.3	⁻⁸²	₁	49.5	⁻⁹⁰	₀	43.3	⁻⁹⁵	₀	36.6	⁻¹⁰⁰	₀	26.6	⁻¹⁰³	₀	16.2					
Oct 18	75.9	⁻⁶	₋₁	75.4	⁻¹⁹	₋₁	74.1	⁻³¹	₋₁	71.9	⁻⁴³	₋₁	68.9	⁻⁵⁴	₋₁	65.1	⁻⁶⁵	₋₁	60.6	⁻⁷⁴	₋₁	55.4	⁻⁸²	₋₁	49.6	⁻⁹⁰	₀	43.3	⁻⁹⁵	₀	36.6	⁻¹⁰⁰	₀	26.6	⁻¹⁰³	₀	16.2					
Oct 19	75.8	⁻⁶	₋₂	75.3	⁻¹⁹	₋₂	74.0	⁻³¹	₋₂	71.8	⁻⁴³	₋₂	68.8	⁻⁵⁴	₋₂	65.0	⁻⁶⁵	₋₂	60.5	⁻⁷⁴	₋₁	55.3	⁻⁸²	₋₁	49.5	⁻⁸⁹	₋₁	43.3	⁻⁹⁵	₋₁	36.6	⁻¹⁰⁰	₋₁	26.6	⁻¹⁰³	₋₁	16.2					
Oct 20	75.5	⁻⁶	₋₃	75.1	⁻¹⁹	₋₃	73.8	⁻³¹	₋₃	71.6	⁻⁴³	₋₃	68.6	⁻⁵⁴	₋₃	64.8	⁻⁶⁴	₋₂	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					
Oct 21	75.2	⁻⁶	₋₄	74.8	⁻¹⁹	₋₃	73.4	⁻³¹	₋₃	71.3	⁻⁴³	₋₃	68.3	⁻⁵⁴	₋₃	64.5	⁻⁶⁴	₋₃	60.0	⁻⁷³	₋₃	54.9	⁻⁸²	₋₂	49.1	⁻⁸⁹	₋₂	42.9	⁻⁹⁴	₋₂	36.3	⁻⁹⁹	₋₁	26.4	⁻¹⁰²	₋₁	16.1					
Oct 22	74.8	⁻⁶	₋₄	74.3	⁻¹⁹	₋₄	73.0	⁻³¹	₋₄	70.9	⁻⁴²	₋₄	67.9	⁻⁵³	₋₄	64.2	⁻⁶⁴	₋₃	59.7	⁻⁷³	₋₃	54.6	⁻⁸¹	₋₃	48.9	⁻⁸⁸	₋₂	42.7	⁻⁹⁴	₋₂	36.1	⁻⁹⁹	₋₂	26.2	⁻¹⁰²	₋₁	16.0					
Oct 23	74.3	⁻⁶	₋₄	73.9	⁻¹⁸	₋₄	72.6	⁻³¹	₋₄	70.4	⁻⁴²	₋₄	67.5	⁻⁵³	₋₄	63.7	⁻⁶³	₋₄	59.3	⁻⁷²	₋₃	54.2	⁻⁸¹	₋₃	48.6	⁻⁸⁷	₋₃	42.4	⁻⁹³	₋₂	35.9	⁻⁹⁸	₋₂	26.0	⁻¹⁰¹	₋₁	15.9					
Oct 24	73.8	⁻⁶	₋₅	73.3	⁻¹⁸	₋₅	72.0	⁻³⁰	₋₅	69.9	⁻⁴²	₋₄	67.0	⁻⁵³	₋₄	63.3	⁻⁶³	₋₄	58.9	⁻⁷²	₋₄	53.8	⁻⁸⁰	₋₃	48.2	⁻⁸⁷	₋₃	42.1	⁻⁹²	₋₃	35.6	⁻⁹⁷	₋₂	25.9	⁻¹⁰⁰	₋₁	15.8					
Oct 25	73.2	⁻⁶	₋₅	72.8	⁻¹⁸	₋₅	71.5	⁻³⁰	₋₅	69.4	⁻⁴¹	₋₅	66.5	⁻⁵²	₋₄	62.8	⁻⁶²	₋₄	58.4	⁻⁷¹	₋₄	53.4	⁻⁷⁹	₋₄	47.8	⁻⁸⁶	₋₃	41.8	⁻⁹²	₋₃	35.3	⁻⁹⁶	₋₂	25.7	⁻⁹⁹	₋₁	15.7					
Oct 26	72.6	⁻⁶	₋₅	72.2	⁻¹⁸	₋₅	70.9	⁻³⁰	₋₅	68.8	⁻⁴¹	₋₅	65.9	⁻⁵²	₋₅	62.3	⁻⁶²	₋₄	57.9	⁻⁷¹	₋₄	53.0	⁻⁷⁹	₋₄	47.4	⁻⁸⁵	₋₃	41.4	⁻⁹¹	₋₃	35.1	⁻⁹⁶	₋₂	25.4	⁻⁹⁹	₋₁	15.5					
Oct 27	72.0	⁻⁶	₋₅	71.5	⁻¹⁸	₋₅	70.3	⁻³⁰	₋₅	68.2	⁻⁴¹	₋₅	65.3	⁻⁵¹	₋₅	61.7	⁻⁶¹	₋₄	57.4	⁻⁷⁰	₋₄	52.5	⁻⁷⁸	₋₄	47.0	⁻⁸⁵	₋₃	41.1	⁻⁹⁰	₋₃	34.7	⁻⁹⁵	₋₂	25.2	⁻⁹⁸	₋₂	15.4					
Oct 28	71.3	⁻⁶	₋₅	70.9	⁻¹⁸	₋₅	69.6	⁻²⁹	₋₅	67.6	⁻⁴⁰	₋₅	64.7	⁻⁵¹	₋₅	61.2	⁻⁶¹	₋₄	56.9	⁻⁶⁹	₋₄	52.0	⁻⁷⁷	₋₄	46.6	⁻⁸⁴	₋₃	40.7	⁻⁸⁹	₋₃	34.4	⁻⁹⁴	₋₂	25.0	⁻⁹⁷	₋₁	15.3					
Oct 29	70.7	⁻⁶	₋₅	70.3	⁻¹⁸	₋₅	69.0	⁻²⁹	₋₅	67.0	⁻⁴⁰	₋₅	64.2	⁻⁵⁰	₋₄	60.6	⁻⁶⁰	₋₄	56.4	⁻⁶⁹	₋₄	51.6	⁻⁷⁷	₋₃	46.2	⁻⁸³	₋₃	40.3	⁻⁸⁸	₋₃	34.1	⁻⁹³	₋₂	24.8	⁻⁹⁶	₋₁	15.1					
Oct 30	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	₋₃	40.0	⁻⁸⁸	₋₂	33.8	⁻⁹²	₋₂	24.6	⁻⁹⁵	₋₁	15.0					
Oct 31	69.6	⁻⁶	₋₃	69.2	⁻¹⁷	₋₃	68.0	⁻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 1	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	₋₁	50.5	⁻⁷⁵	₋₁	45.2	⁻⁸²	₋₁	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.3	⁻⁹⁴	₋₁	14.8					
Nov 2	69.0	⁻⁶	₀	68.6	⁻¹⁷	₀	67.3	⁻²⁸	₀	65.4	⁻³⁹	₀	62.6	⁻⁴⁹	₀	59.2	⁻⁵⁹	₀	55.0	⁻⁶⁷	₀	50.3	⁻⁷⁵	₀	45.1	⁻⁸¹	₀	39.4	⁻⁸⁷	₀	33.3	⁻⁹¹	₀	24.2	⁻⁹⁴							

2004

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	
Oct 3	3	40.0 ⁻⁶ ₋₄	39.6 ⁻¹⁷ ₋₄	38.3 ⁻²⁹ ₋₄	36.3 ⁻⁴⁰ ₋₄	33.5 ⁻⁵⁰ ₋₄	30.0 ⁻⁵⁹ ₋₃	25.9 ⁻⁶⁸ ₋₃	21.1 ⁻⁷⁶ ₋₃	15.7 ⁻⁸² ₋₃	10.0 ⁻⁸⁸ ₋₂	3.8 ⁻⁹² ₋₂	-5.4 ⁻⁹⁵ ₋₁	-15.0
Oct 4	4	39.7 ⁻⁶ ₋₃	39.3 ⁻¹⁷ ₋₃	38.1 ⁻²⁹ ₋₂	36.1 ⁻³⁹ ₋₂	33.3 ⁻⁵⁰ ₋₂	29.8 ⁻⁵⁹ ₋₂	25.7 ⁻⁶⁸ ₋₂	20.9 ⁻⁷⁵ ₋₂	15.6 ⁻⁸² ₋₂	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹² ₋₁	-5.4 ⁻⁹⁵ ₋₁	-14.9
Oct 5	5	39.5 ⁻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	20.8 ⁻⁷⁵ ₋₁	15.6 ⁻⁸² ₀	9.9 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	-5.4 ⁻⁹⁴ ₀	-14.8
Oct 6	6	39.5 ⁻⁶ ₁	39.1 ⁻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 ₀	-5.4 ⁻⁹⁴ ₀	-14.8
Oct 7	7	39.5 ⁻⁶ ₃	39.1 ⁻¹⁷ ₃	37.9 ⁻²⁹ ₃	35.9 ⁻³⁹ ₃	33.2 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₂	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
Oct 8	8	39.7 ⁻⁶ ₅	39.3 ⁻¹⁷ ₅	38.1 ⁻²⁹ ₄	36.1 ⁻⁴⁰ ₄	33.3 ⁻⁵⁰ ₄	29.9 ⁻⁶⁰ ₄	25.7 ⁻⁶⁸ ₄	20.9 ⁻⁷⁶ ₃	15.7 ⁻⁸² ₃	9.9 ⁻⁸⁸ ₂	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.9
Oct 9	9	40.0 ⁻⁶ ₆	39.6 ⁻¹⁸ ₆	38.4 ⁻²⁹ ₆	36.4 ⁻⁴⁰ ₆	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 ₃	-5.4 ⁻⁹⁶ ₂	-15.0
Oct 10	10	40.5 ⁻⁶ ₇	40.0 ⁻¹⁸ ₇	38.8 ⁻²⁹ ₇	36.8 ⁻⁴⁰ ₇	33.9 ⁻⁵¹ ₆	30.4 ⁻⁶¹ ₆	26.2 ⁻⁷⁰ ₅	21.3 ⁻⁷⁷ ₅	15.9 ⁻⁸⁴ ₄	10.1 ⁻⁸⁹ ₄	3.9 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.2
Oct 11	11	40.9 ⁻⁶ ₈	40.5 ⁻¹⁸ ₇	39.3 ⁻³⁰ ₇	37.2 ⁻⁴¹ ₇	34.4 ⁻⁵² ₇	30.8 ⁻⁶² ₆	26.5 ⁻⁷⁰ ₆	21.6 ⁻⁷⁸ ₅	16.1 ⁻⁸⁵ ₅	10.2 ⁻⁹¹ ₄	3.9 ⁻⁹⁵ ₃	-5.6 ⁻⁹⁸ ₂	-15.3
Oct 12	12	41.5 ⁻⁶ ₈	41.0 ⁻¹⁸ ₇	39.8 ⁻³⁰ ₇	37.7 ⁻⁴¹ ₇	34.8 ⁻⁵² ₇	31.2 ⁻⁶² ₆	26.8 ⁻⁷¹ ₆	21.9 ⁻⁷⁹ ₅	16.3 ⁻⁸⁶ ₅	10.3 ⁻⁹² ₄	4.0 ⁻⁹⁷ ₃	-5.6 ⁻¹⁰⁰ ₂	-15.5
Oct 13	13	42.0 ⁻⁶ ₇	41.6 ⁻¹⁸ ₇	40.3 ⁻³⁰ ₇	38.1 ⁻⁴² ₆	35.2 ⁻⁵³ ₆	31.5 ⁻⁶³ ₆	27.2 ⁻⁷² ₅	22.1 ⁻⁸⁰ ₅	16.5 ⁻⁸⁷ ₄	10.5 ⁻⁹³ ₄	4.0 ⁻⁹⁸ ₃	-5.7 ⁻¹⁰¹ ₂	-15.7
Oct 14	14	42.5 ⁻⁶ ₆	42.0 ⁻¹⁹ ₆	40.7 ⁻³¹ ₆	38.6 ⁻⁴² ₅	35.6 ⁻⁵³ ₅	31.9 ⁻⁶⁴ ₅	27.5 ⁻⁷³ ₄	22.4 ⁻⁸¹ ₄	16.7 ⁻⁸⁸ ₄	10.6 ⁻⁹⁴ ₃	4.1 ⁻⁹⁹ ₂	-5.8 ⁻¹⁰² ₂	-15.9
Oct 15	15	42.9 ⁻⁶ ₄	42.4 ⁻¹⁹ ₄	41.1 ⁻³¹ ₄	38.9 ⁻⁴³ ₄	36.0 ⁻⁵⁴ ₄	32.2 ⁻⁶⁴ ₄	27.7 ⁻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 16	16	43.1 ⁻⁶ ₂	42.7 ⁻¹⁹ ₂	41.4 ⁻³¹ ₂	39.2 ⁻⁴³ ₂	36.2 ⁻⁵⁴ ₂	32.4 ⁻⁶⁵ ₂	27.9 ⁻⁷⁴ ₂	22.7 ⁻⁸² ₂	17.0 ⁻⁸⁹ ₂	10.8 ⁻⁹⁵ ₁	4.1 ⁻¹⁰⁰ ₁	-5.9 ⁻¹⁰³ ₁	-16.2
Oct 17	17	43.3 ⁻⁶ ₁	42.9 ⁻¹⁹ ₁	41.5 ⁻³¹ ₁	39.4 ⁻⁴³ ₁	36.3 ⁻⁵⁴ ₁	32.5 ⁻⁶⁵ ₁	28.0 ⁻⁷⁴ ₁	22.8 ⁻⁸² ₁	17.1 ⁻⁹⁰ ₀	10.8 ⁻⁹⁵ ₀	4.1 ⁻¹⁰⁰ ₀	-5.9 ⁻¹⁰³ ₀	-16.2
Oct 18	18	43.4 ⁻⁶ ₋₁	42.9 ⁻¹⁹ ₋₁	41.6 ⁻³¹ ₋₁	39.4 ⁻⁴³ ₋₁	36.4 ⁻⁵⁴ ₋₁	32.6 ⁻⁶⁵ ₋₁	28.1 ⁻⁷⁴ ₋₁	22.9 ⁻⁸² ₋₁	17.1 ⁻⁹⁰ ₀	10.8 ⁻⁹⁵ ₀	4.1 ⁻¹⁰⁰ ₀	-5.9 ⁻¹⁰³ ₀	-16.2
Oct 19	19	43.3 ⁻⁶ ₋₂	42.9 ⁻¹⁹ ₋₂	41.6 ⁻³¹ ₋₂	39.4 ⁻⁴³ ₋₂	36.4 ⁻⁵⁴ ₋₂	32.6 ⁻⁶⁵ ₋₂	28.0 ⁻⁷⁴ ₋₁	22.8 ⁻⁸² ₋₁	17.1 ⁻⁸⁹ ₋₁	10.8 ⁻⁹⁵ ₋₁	4.1 ⁻¹⁰⁰ ₋₁	-5.9 ⁻¹⁰³ ₋₁	-16.2
Oct 20	20	43.2 ⁻⁶ ₋₃	42.7 ⁻¹⁹ ₋₃	41.4 ⁻³¹ ₋₃	39.2 ⁻⁴³ ₋₃	36.2 ⁻⁵⁴ ₋₃	32.5 ⁻⁶⁴ ₋₂	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
Oct 21	21	43.0 ⁻⁶ ₋₄	42.6 ⁻¹⁹ ₋₃	41.2 ⁻³¹ ₋₃	39.1 ⁻⁴³ ₋₃	36.1 ⁻⁵⁴ ₋₃	32.3 ⁻⁶⁴ ₋₃	27.8 ⁻⁷³ ₋₃	22.7 ⁻⁸² ₋₂	16.9 ⁻⁸⁹ ₋₂	10.7 ⁻⁹⁴ ₋₂	4.1 ⁻⁹⁹ ₋₁	-5.8 ⁻¹⁰² ₋₁	-16.1
Oct 22	22	42.8 ⁻⁶ ₋₄	42.3 ⁻¹⁹ ₋₄	41.0 ⁻³¹ ₋₄	38.8 ⁻⁴² ₋₄	35.9 ⁻⁵³ ₋₄	32.1 ⁻⁶⁴ ₋₃	27.7 ⁻⁷³ ₋₃	22.5 ⁻⁸¹ ₋₃	16.8 ⁻⁸⁸ ₋₂	10.7 ⁻⁹⁴ ₋₂	4.1 ⁻⁹⁹ ₋₂	-5.8 ⁻¹⁰² ₋₁	-16.0
Oct 23	23	42.5 ⁻⁶ ₋₄	42.0 ⁻¹⁸ ₋₄	40.7 ⁻³¹ ₋₄	38.6 ⁻⁴² ₋₄	35.6 ⁻⁵³ ₋₄	31.9 ⁻⁶³ ₋₄	27.5 ⁻⁷² ₋₃	22.4 ⁻⁸¹ ₋₃	16.7 ⁻⁸⁷ ₋₃	10.6 ⁻⁹³ ₋₂	4.1 ⁻⁹⁸ ₋₂	-5.8 ⁻¹⁰¹ ₋₁	-15.9
Oct 24	24	42.2 ⁻⁶ ₋₅	41.7 ⁻¹⁸ ₋₅	40.5 ⁻³⁰ ₋₅	38.3 ⁻⁴² ₋₄	35.4 ⁻⁵³ ₋₄	31.7 ⁻⁶³ ₋₄	27.3 ⁻⁷² ₋₄	22.2 ⁻⁸⁰ ₋₃	16.6 ⁻⁸⁷ ₋₃	10.5 ⁻⁹² ₋₃	4.0 ⁻⁹⁷ ₋₂	-5.7 ⁻¹⁰⁰ ₋₁	-15.8
Oct 25	25	41.8 ⁻⁶ ₋₅	41.4 ⁻¹⁸ ₋₅	40.1 ⁻³⁰ ₋₅	38.0 ⁻⁴¹ ₋₅	35.1 ⁻⁵² ₋₄	31.4 ⁻⁶² ₋₄	27.1 ⁻⁷¹ ₋₄	22.1 ⁻⁷⁹ ₋₄	16.5 ⁻⁸⁶ ₋₃	10.4 ⁻⁹² ₋₃	4.0 ⁻⁹⁶ ₋₂	-5.7 ⁻⁹⁹ ₋₁	-15.7
Oct 26	26	41.5 ⁻⁶ ₋₅	41.1 ⁻¹⁸ ₋₅	39.8 ⁻³⁰ ₋₅	37.7 ⁻⁴¹ ₋₅	34.8 ⁻⁵² ₋₅	31.2 ⁻⁶² ₋₄	26.8 ⁻⁷¹ ₋₄	21.9 ⁻⁷⁹ ₋₄	16.4 ⁻⁸⁵ ₋₃	10.4 ⁻⁹¹ ₋₃	4.0 ⁻⁹⁶ ₋₂	-5.6 ⁻⁹⁹ ₋₁	-15.5
Oct 27	27	41.1 ⁻⁶ ₋₅	40.7 ⁻¹⁸ ₋₅	39.5 ⁻³⁰ ₋₅	37.4 ⁻⁴¹ ₋₅	34.5 ⁻⁵¹ ₋₅	30.9 ⁻⁶¹ ₋₄	26.6 ⁻⁷⁰ ₋₄	21.7 ⁻⁷⁸ ₋₄	16.2 ⁻⁸⁵ ₋₃	10.3 ⁻⁹⁰ ₋₃	3.9 ⁻⁹⁵ ₋₂	-5.6 ⁻⁹⁸ ₋₂	-15.4
Oct 28	28	40.8 ⁻⁶ ₋₅	40.3 ⁻¹⁸ ₋₅	39.1 ⁻²⁹ ₋₅	37.0 ⁻⁴⁰ ₋₅	34.2 ⁻⁵¹ ₋₅	30.6 ⁻⁶¹ ₋₄	26.4 ⁻⁶⁹ ₋₄	21.5 ⁻⁷⁷ ₋₄	16.1 ⁻⁸⁴ ₋₃	10.2 ⁻⁸⁹ ₋₃	3.9 ⁻⁹⁴ ₋₂	-5.5 ⁻⁹⁷ ₋₁	-15.3
Oct 29	29	40.4 ⁻⁶ ₋₅	40.0 ⁻¹⁸ ₋₅	38.8 ⁻²⁹ ₋₅	36.7 ⁻⁴⁰ ₋₅	33.9 ⁻⁵⁰ ₋₄	30.4 ⁻⁶⁰ ₋₄	26.1 ⁻⁶⁹ ₋₄	21.3 ⁻⁷⁷ ₋₃	15.9 ⁻⁸³ ₋₃	10.1 ⁻⁸⁸ ₋₃	3.9 ⁻⁹³ ₋₂	-5.5 ⁻⁹⁶ ₋₁	-15.1
Oct 30	30	40.1 ⁻⁶ ₋₄	39.7 ⁻¹⁷ ₋₄	38.4 ⁻²⁹ ₋₄	36.4 ⁻⁴⁰ ₋₄	33.6 ⁻⁵⁰ ₋₄	30.1 ⁻⁶⁰ ₋₃	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
Oct 31	31	39.8 ⁻⁶ ₋₃	39.4 ⁻¹⁷ ₋₃	38.2 ⁻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 1	1	39.6 ⁻⁶ ₋₂	39.2 ⁻¹⁷ ₋₂	37.9 ⁻²⁸ ₋₂	35.9 ⁻³⁹ ₋₂	33.2 ⁻⁴⁹ ₋₂	29.7 ⁻⁵⁹ ₋₂	25.6 ⁻⁶⁸ ₋₁	20.9 ⁻⁷⁵ ₋₁	15.6 ⁻⁸² ₋₁	9.9 ⁻⁸⁷ ₋₁	3.8 ⁻⁹¹ ₋₁	-5.4 ⁻⁹⁴ ₋₁	-14.8
Nov 2	2	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 ⁻⁸¹ ₀	9.8 ⁻⁸⁷ ₀	3.8 ⁻⁹¹ ₀	-5.4 ⁻⁹⁴ ₀	-14.8
Nov 3	3	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 ₁	3.8 ⁻⁹¹ ₁	-5.4 ⁻⁹⁴ ₀	-14.8
Nov 4	4	39.5 ⁻⁶ ₃	39.1 ⁻¹⁷ ₃	37.9 ⁻²⁹ ₃	35.9 ⁻³⁹ ₃	33.1 ⁻⁵⁰ ₃	29.7 ⁻⁵⁹ ₃	25.5 ⁻⁶⁸ ₂	20.8 ⁻⁷⁵ ₂	15.6 ⁻⁸² ₂	9.8 ⁻⁸⁷ ₂	3.8 ⁻⁹² ₁	-5.4 ⁻⁹⁴ ₁	-14.8
Nov 5	5	39.7 ⁻⁶ ₅	39.3 ⁻¹⁷ ₅	38.1 ⁻²⁹ ₅	36.1 ⁻⁴⁰ ₅	33.3 ⁻⁵⁰ ₄	29.8 ⁻⁶⁰ ₄	25.7 ⁻⁶⁸ ₄	20.9 ⁻⁷⁶ ₃	15.6 ⁻⁸² ₃	9.9 ⁻⁸⁸ ₃	3.8 ⁻⁹² ₂	-5.4 ⁻⁹⁵ ₁	-14.9
Nov 6	6	40.0 ⁻⁶ ₇	39.6 ⁻¹⁸ ₇	38.4 ⁻²⁹ ₆	36.4 ⁻⁴⁰ ₆	33.6 ⁻⁵⁰ ₆	30.1 ⁻⁶⁰ ₅	25.9 ⁻⁶⁹ ₅	21.1 ⁻⁷⁷ ₅	15.8 ⁻⁸³ ₄	10.0 ⁻⁸⁹ ₃	3.8 ⁻⁹³ ₃	-5.4 ⁻⁹⁶ ₂	-15.0
Nov 7	7	40.5 ⁻⁶ ₈	40.1 ⁻¹⁸ ₈	38.8 ⁻²⁹ ₈	36.8 ⁻⁴¹ ₇	34.0 ⁻⁵¹ ₇	30.4 ⁻⁶¹ ₇	26.2 ⁻⁷⁰ ₆	21.3 ⁻⁷⁸ ₆	16.0 ⁻⁸⁴ ₅	10.1 ⁻⁹⁰ ₄	3.9 ⁻⁹⁴ ₃	-5.5 ⁻⁹⁷ ₂	-15.2
Nov 8	8	41.0 ⁻⁶ ₉	40.6 ⁻¹⁸ ₉	39.4 ⁻³⁰ ₉	37.3 ⁻⁴¹ ₈	34.4 ⁻⁵² ₈	30.8 ⁻⁶² ₇	26.6 ⁻⁷¹ ₇	21.6 ⁻⁷⁹ ₆	16.2 ⁻⁸⁵ ₅	10.2 ⁻⁹¹ ₅	3.9 ⁻⁹⁶ ₄	-5.6 ⁻⁹⁹ ₃	-15.4
Nov 9	9	41.7 ⁻⁶ ₉	41.2 ⁻¹⁸ ₉	40.0 ⁻³⁰ ₉	37.9 ⁻⁴² ₉	35.0 ⁻⁵³ ₈	31.3 ⁻⁶³ ₈	26.9 ⁻⁷² ₇	22.0 ⁻⁸⁰ ₆	16.4 ⁻⁸⁷ ₆	10.4 ⁻⁹² ₅	4.0 ⁻⁹⁷ ₄	-5.7 ⁻¹⁰⁰ ₃	-15.6
Nov 10	10	42.3 ⁻⁶ ₉	41.9 ⁻¹⁹ ₉	40.6 ⁻³¹ ₈	38.4 ⁻⁴² ₈	35.5 ⁻⁵³ ₈	31.8 ⁻⁶⁴ ₇	27.4 ⁻⁷³ ₇	22.3 ⁻⁸¹ ₆	16.7 ⁻⁸⁸ ₅	10.6 ⁻⁹⁴ ₅	4.0 ⁻⁹⁹ ₄	-5.7 ⁻¹⁰² ₂	-15.8
Nov 11	11	42.9 ⁻⁶ ₈	42.5 ⁻¹⁹ ₇	41.1 ⁻³¹ ₇	39.0 ⁻⁴³ ₇	36.0 ⁻⁵⁴ ₇	32.2 ⁻⁶⁴ ₆	27.8 ⁻⁷⁴ ₆	22.6 ⁻⁸² ₅	16.9 ⁻⁸⁹ ₅	10.7 ⁻⁹⁵ ₄	4.1 ⁻¹⁰⁰ ₃	-5.8 ⁻¹⁰³ ₂	-16.1
Nov 12	12	43.4 ⁻⁶ ₅	43.0 ⁻¹⁹ ₅	41.6 ⁻³¹ ₅	39.5 ⁻⁴³ ₅	36.4 ⁻⁵⁵ ₅	32.6 ⁻⁶⁵ ₅	28.1 ⁻⁷⁵ ₄	22.9 ⁻⁸³ ₄	17.1 ⁻⁹⁰ ₃	10.8 ⁻⁹⁶ ₃	4.1 ⁻¹⁰¹ ₂	-5.9 ⁻¹⁰⁴ ₂	-16.3
Nov 13	13	43.8 ⁻⁶ ₃	43.3 ⁻¹⁹ ₃	42.0 ⁻³² ₃	39.8 ⁻⁴⁴									

2004

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 18	75.5	⁻⁶	₋₆	75.1	⁻¹⁹	₋₆	73.7	⁻³¹	₋₆	71.6	⁻⁴³	₋₆	68.6	⁻⁵⁴	₋₆	64.8	⁻⁶⁴	₋₅	60.3	⁻⁷³	₋₅	55.1	⁻⁸²	₋₄	49.3	⁻⁸⁹	₋₄	43.1	⁻⁹⁴	₋₃	36.5	⁻⁹⁹	₋₃	26.5	⁻¹⁰²	₋₂	16.2								
Nov 19	74.7	⁻⁶	₋₇	74.3	⁻¹⁹	₋₇	73.0	⁻³¹	₋₆	70.8	⁻⁴²	₋₆	67.8	⁻⁵³	₋₆	64.1	⁻⁶³	₋₆	59.6	⁻⁷³	₋₅	54.5	⁻⁸¹	₋₅	48.8	⁻⁸⁸	₋₄	42.7	⁻⁹³	₋₄	36.1	⁻⁹⁸	₋₃	26.2	⁻¹⁰¹	₋₂	16.0								
Nov 20	73.9	⁻⁶	₋₇	73.5	⁻¹⁸	₋₆	72.2	⁻³⁰	₋₆	70.1	⁻⁴²	₋₆	67.1	⁻⁵³	₋₆	63.4	⁻⁶³	₋₅	59.0	⁻⁷²	₋₅	53.9	⁻⁸⁰	₋₅	48.3	⁻⁸⁷	₋₄	42.2	⁻⁹²	₋₃	35.7	⁻⁹⁷	₋₃	25.9	⁻¹⁰⁰	₋₂	15.8								
Nov 21	73.1	⁻⁶	₋₆	72.7	⁻¹⁸	₋₆	71.4	⁻³⁰	₋₆	69.3	⁻⁴¹	₋₆	66.4	⁻⁵²	₋₆	62.7	⁻⁶²	₋₅	58.4	⁻⁷¹	₋₅	53.4	⁻⁷⁹	₋₄	47.8	⁻⁸⁶	₋₄	41.7	⁻⁹¹	₋₃	35.3	⁻⁹⁶	₋₃	25.6	⁻⁹⁹	₋₂	15.7								
Nov 22	72.4	⁻⁶	₋₆	71.9	⁻¹⁸	₋₆	70.7	⁻³⁰	₋₆	68.6	⁻⁴¹	₋₅	65.7	⁻⁵²	₋₅	62.1	⁻⁶¹	₋₅	57.8	⁻⁷⁰	₋₄	52.8	⁻⁷⁸	₋₄	47.3	⁻⁸⁵	₋₄	41.3	⁻⁹¹	₋₃	34.9	⁻⁹⁵	₋₂	25.4	⁻⁹⁸	₋₂	15.5								
Nov 23	71.7	⁻⁶	₋₅	71.3	⁻¹⁸	₋₅	70.0	⁻²⁹	₋₅	67.9	⁻⁴¹	₋₅	65.1	⁻⁵¹	₋₅	61.5	⁻⁶¹	₋₄	57.2	⁻⁷⁰	₋₄	52.3	⁻⁷⁸	₋₄	46.8	⁻⁸⁴	₋₃	40.9	⁻⁹⁰	₋₃	34.6	⁻⁹⁴	₋₂	25.1	⁻⁹⁷	₋₁	15.3								
Nov 24	71.0	⁻⁶	₋₅	70.6	⁻¹⁸	₋₅	69.4	⁻²⁹	₋₅	67.3	⁻⁴⁰	₋₄	64.5	⁻⁵¹	₋₄	60.9	⁻⁶⁰	₋₄	56.7	⁻⁶⁹	₋₄	51.8	⁻⁷⁷	₋₃	46.4	⁻⁸⁴	₋₃	40.6	⁻⁸⁹	₋₃	34.3	⁻⁹⁴	₋₂	24.9	⁻⁹⁷	₋₁	15.2								
Nov 25	70.5	⁻⁶	₋₄	70.1	⁻¹⁸	₋₄	68.8	⁻²⁹	₋₄	66.8	⁻⁴⁰	₋₄	64.0	⁻⁵⁰	₋₄	60.5	⁻⁶⁰	₋₄	56.2	⁻⁶⁹	₋₃	51.4	⁻⁷⁶	₋₃	46.1	⁻⁸³	₋₃	40.2	⁻⁸⁸	₋₂	34.0	⁻⁹³	₋₂	24.7	⁻⁹⁶	₋₁	15.1								
Nov 26	70.0	⁻⁶	₋₄	69.6	⁻¹⁷	₋₄	68.3	⁻²⁹	₋₄	66.3	⁻⁴⁰	₋₃	63.5	⁻⁵⁰	₋₃	60.0	⁻⁶⁰	₋₃	55.8	⁻⁶⁸	₋₃	51.1	⁻⁷⁶	₋₃	45.7	⁻⁸²	₋₂	39.9	⁻⁸⁸	₋₂	33.8	⁻⁹²	₋₂	24.5	⁻⁹⁵	₋₁	15.0								
Nov 27	69.5	⁻⁶	₋₃	69.1	⁻¹⁷	₋₃	67.9	⁻²⁹	₋₃	65.9	⁻³⁹	₋₃	63.1	⁻⁵⁰	₋₃	59.6	⁻⁵⁹	₋₂	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								
Nov 28	69.2	⁻⁶	₋₂	68.8	⁻¹⁷	₋₂	67.5	⁻²⁸	₋₂	65.5	⁻³⁹	₋₂	62.8	⁻⁴⁹	₋₂	59.3	⁻⁵⁹	₋₂	55.2	⁻⁶⁷	₋₂	50.5	⁻⁷⁵	₋₂	45.2	⁻⁸²	₋₁	39.5	⁻⁸⁷	₋₁	33.4	⁻⁹¹	₋₁	24.2	⁻⁹⁴	₋₁	14.8								
Nov 29	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	₋₁	33.3	⁻⁹¹	₀	24.2	⁻⁹⁴	₀	14.8								
Nov 30	68.8	⁻⁶	₀	68.4	⁻¹⁷	₀	67.1	⁻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								
Dec 1	68.8	⁻⁶	₁	68.4	⁻¹⁷	₁	67.2	⁻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	39.3	⁻⁸⁷	₁	33.2	⁻⁹¹	₁	24.1	⁻⁹⁴	₁	14.7								
Dec 2	68.9	⁻⁶	₃	68.5	⁻¹⁷	₃	67.3	⁻²⁸	₃	65.3	⁻³⁹	₃	62.6	⁻⁵⁰	₃	59.1	⁻⁵⁹	₃	55.0	⁻⁶⁸	₂	50.3	⁻⁷⁵	₂	45.1	⁻⁸²	₂	39.4	⁻⁸⁷	₂	33.3	⁻⁹¹	₁	24.2	⁻⁹⁴	₁	14.8								
Dec 3	69.3	⁻⁶	₅	68.9	⁻¹⁷	₅	67.7	⁻²⁹	₅	65.7	⁻⁴⁰	₄	62.9	⁻⁵⁰	₄	59.5	⁻⁵⁹	₄	55.3	⁻⁶⁸	₄	50.6	⁻⁷⁶	₃	45.3	⁻⁸²	₃	39.6	⁻⁸⁷	₃	33.5	⁻⁹²	₂	24.3	⁻⁹⁵	₁	14.8								
Dec 4	69.9	⁻⁶	₆	69.5	⁻¹⁸	₆	68.2	⁻²⁹	₆	66.2	⁻⁴⁰	₆	63.4	⁻⁵⁰	₆	59.9	⁻⁶⁰	₅	55.8	⁻⁶⁹	₅	51.0	⁻⁷⁶	₄	45.7	⁻⁸³	₄	39.9	⁻⁸⁸	₃	33.7	⁻⁹³	₃	24.5	⁻⁹⁶	₂	15.0								
Dec 5	70.7	⁻⁶	₈	70.2	⁻¹⁸	₈	69.0	⁻²⁹	₈	67.0	⁻⁴⁰	₇	64.2	⁻⁵¹	₇	60.6	⁻⁶¹	₇	56.4	⁻⁷⁰	₆	51.6	⁻⁷⁷	₆	46.2	⁻⁸⁴	₅	40.3	⁻⁸⁹	₄	34.1	⁻⁹⁴	₃	24.8	⁻⁹⁷	₂	15.1								
Dec 6	71.6	⁻⁶	₉	71.2	⁻¹⁸	₉	70.0	⁻³⁰	₉	67.9	⁻⁴¹	₉	65.0	⁻⁵²	₈	61.4	⁻⁶²	₈	57.2	⁻⁷¹	₇	52.3	⁻⁷⁹	₆	46.8	⁻⁸⁵	₆	40.9	⁻⁹¹	₅	34.6	⁻⁹⁶	₄	25.1	⁻⁹⁹	₃	15.3								
Dec 7	72.7	⁻⁶	₁₀	72.3	⁻¹⁸	₁₀	71.1	⁻³⁰	₁₀	69.0	⁻⁴²	₉	66.1	⁻⁵³	₉	62.4	⁻⁶³	₈	58.1	⁻⁷²	₈	53.1	⁻⁸⁰	₇	47.5	⁻⁸⁷	₆	41.5	⁻⁹²	₅	35.1	⁻⁹⁷	₄	25.5	⁻¹⁰⁰	₃	15.6								
Dec 8	74.0	⁻⁶	₁₀	73.5	⁻¹⁹	₁₀	72.2	⁻³¹	₁₀	70.1	⁻⁴²	₉	67.2	⁻⁵³	₉	63.5	⁻⁶⁴	₈	59.0	⁻⁷³	₈	54.0	⁻⁸¹	₇	48.3	⁻⁸⁸	₆	42.2	⁻⁹⁴	₅	35.7	⁻⁹⁹	₄	25.9	⁻¹⁰²	₃	15.8								
Dec 9	75.2	⁻⁶	₉	74.8	⁻¹⁹	₉	73.4	⁻³¹	₉	71.3	⁻⁴³	₉	68.3	⁻⁵⁴	₈	64.5	⁻⁶⁵	₈	60.0	⁻⁷⁴	₇	54.9	⁻⁸²	₆	49.1	⁻⁸⁹	₆	42.9	⁻⁹⁵	₅	36.3	⁻¹⁰⁰	₄	26.4	⁻¹⁰³	₃	16.1								
Dec 10	76.3	⁻⁶	₇	75.9	⁻¹⁹	₇	74.5	⁻³²	₇	72.3	⁻⁴⁴	₇	69.3	⁻⁵⁵	₇	65.5	⁻⁶⁶	₆	60.9	⁻⁷⁵	₆	55.7	⁻⁸³	₅	49.9	⁻⁹¹	₅	43.6	⁻⁹⁶	₄	36.9	⁻¹⁰²	₃	26.8	⁻¹⁰⁵	₂	16.3								
Dec 11	77.2	⁻⁶	₅	76.8	⁻¹⁹	₅	75.4	⁻³²	₅	73.2	⁻⁴⁴	₄	70.1	⁻⁵⁶	₄	66.2	⁻⁶⁶	₄	61.6	⁻⁷⁶	₄	56.3	⁻⁸⁴	₃	50.5	⁻⁹²	₃	44.1	⁻⁹⁷	₂	37.3	⁻¹⁰³	₂	27.1	⁻¹⁰⁶	₁	16.5								
Dec 12	77.8	⁻⁷	₁	77.3	⁻¹⁹	₁	76.0	⁻³²	₁	73.7	⁻⁴⁴	₁	70.6	⁻⁵⁶	₁	66.7	⁻⁶⁶	₁	62.1	⁻⁷⁶	₁	56.8	⁻⁸⁵	₁	50.8	⁻⁹²	₁	44.4	⁻⁹⁸	₁	37.6	⁻¹⁰³	₁	27.3	⁻¹⁰⁶	₀	16.7								
Dec 13	77.9	⁻⁷	₋₂	77.5	⁻¹⁹	₋₂	76.1	⁻³²	₋₂	73.9	⁻⁴⁴	₋₂	70.8	⁻⁵⁶	₋₂	66.9	⁻⁶⁶	₋₂	62.2	⁻⁷⁶	₋₂	56.9	⁻⁸⁵	₋₁	50.9	⁻⁹²	₋₁	44.5	⁻⁹⁸	₋₁	37.6	⁻¹⁰³	₋₁	27.3	⁻¹⁰⁶	₋₁	16.7								
Dec 14	77.7	⁻⁶	₋₅	77.2	⁻¹⁹	₋₅	75.9	⁻³²	₋₅	73.6	⁻⁴⁴	₋₅	70.5	⁻⁵⁵	₋₄	66.7	⁻⁶⁶	₋₄	62.0	⁻⁷⁶	₋₄	56.7	⁻⁸⁴	₋₄	50.8	⁻⁹¹	₋₃	44.4	⁻⁹⁷	₋₃	37.5	⁻¹⁰²	₋₂	27.2	⁻¹⁰⁶	₋₁	16.6								
Dec 15	77.1	⁻⁶	₋₇	76.6	⁻¹⁹	₋₇	75.3	⁻³²	₋₇	73.1	⁻⁴⁴	₋₇	70.0	⁻⁵⁵	₋₆	66.1	⁻⁶⁵	₋₆	61.5	⁻⁷⁵	₋₆	56.2	⁻⁸³	₋₅	50.4	⁻⁹¹	₋₄	44.0	⁻⁹⁶	₋₄	37.2	⁻¹⁰¹	₋₃	27.0	⁻¹⁰⁵	₋₂	16.5								
Dec 16	76.2	⁻⁶	₋₉	75.8	⁻¹⁹	₋₉	74.4	⁻³¹	₋₈	72.2	⁻⁴³	₋₈	69.2	⁻⁵⁴	₋₈	65.4	⁻⁶⁵	₋₇	60.8	⁻⁷⁴	₋₇	55.6	⁻⁸²	₋₆	49.8	⁻⁸⁹	₋₅	43.5	⁻⁹⁵	₋₅	36.8	⁻¹⁰⁰	₋₄	26.7	⁻¹⁰³	₋₂	16.3								
Dec 17	75.2	⁻⁶	₋₉	74.7	⁻¹⁹	₋₉	73.4	⁻³¹	₋₉	71.2	⁻⁴²	₋₈	68.3	⁻⁵³	₋₈	64.5	⁻⁶⁴	₋₈	60.0	⁻⁷³	₋₇	54.9	⁻⁸¹	₋₆	49.1	⁻⁸⁸	₋₆	42.9	⁻⁹⁴	₋₅	36.3	⁻⁹⁹	₋₄	26.4	⁻¹⁰²	₋₃	16.1								
Dec 18	74.1	⁻⁶	₋₉	73.6	⁻¹⁸	₋₉	72.4	⁻³⁰	₋₈	70.2	⁻⁴²	₋₈	67.3	⁻⁵³	₋₈	63.6	⁻⁶³	₋₇	59.1	⁻⁷²	₋₇	54.1	⁻⁸⁰	₋₆	48.4	⁻⁸⁷	₋₅	42.3	⁻⁹²	₋₅	35.8	⁻⁹⁷													

2004

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	'	a	t
Nov 18	43.2	⁻⁶	₋₆	42.7	⁻¹⁹	₋₆	41.4	⁻³¹	₋₆	39.2	⁻⁴³	₋₆	36.2	⁻⁵⁴	₋₆	32.4	⁻⁶⁴	₋₅	27.9	⁻⁷³	₋₅	22.8	⁻⁸²	₋₄	17.0	⁻⁸⁹	₋₄	10.8	⁻⁹⁴	₋₃	4.1	⁻⁹⁹	₋₃	-5.9	⁻¹⁰²	₋₂	-16.2								
Nov 19	42.7	⁻⁶	₋₇	42.3	⁻¹⁹	₋₇	41.0	⁻³¹	₋₆	38.8	⁻⁴²	₋₆	35.8	⁻⁵³	₋₆	32.1	⁻⁶³	₋₆	27.6	⁻⁷³	₋₅	22.5	⁻⁸¹	₋₅	16.8	⁻⁸⁸	₋₄	10.7	⁻⁹³	₋₄	4.1	⁻⁹⁸	₋₃	-5.8	⁻¹⁰¹	₋₂	-16.0								
Nov 20	42.3	⁻⁶	₋₇	41.8	⁻¹⁸	₋₆	40.5	⁻³⁰	₋₆	38.4	⁻⁴²	₋₆	35.5	⁻⁵³	₋₆	31.7	⁻⁶³	₋₅	27.3	⁻⁷²	₋₅	22.3	⁻⁸⁰	₋₅	16.7	⁻⁸⁷	₋₄	10.5	⁻⁹²	₋₃	4.0	⁻⁹⁷	₋₃	-5.7	⁻¹⁰⁰	₋₂	-15.8								
Nov 21	41.8	⁻⁶	₋₆	41.4	⁻¹⁸	₋₆	40.1	⁻³⁰	₋₆	38.0	⁻⁴¹	₋₆	35.1	⁻⁵²	₋₆	31.4	⁻⁶²	₋₅	27.0	⁻⁷¹	₋₅	22.0	⁻⁷⁹	₋₄	16.5	⁻⁸⁶	₋₄	10.4	⁻⁹¹	₋₃	4.0	⁻⁹⁶	₋₃	-5.7	⁻⁹⁹	₋₂	-15.7								
Nov 22	41.4	⁻⁶	₋₆	40.9	⁻¹⁸	₋₆	39.7	⁻³⁰	₋₆	37.6	⁻⁴¹	₋₅	34.7	⁻⁵²	₋₅	31.1	⁻⁶¹	₋₅	26.8	⁻⁷⁰	₋₄	21.8	⁻⁷⁸	₋₄	16.3	⁻⁸⁵	₋₄	10.3	⁻⁹¹	₋₃	4.0	⁻⁹⁵	₋₂	-5.6	⁻⁹⁸	₋₂	-15.5								
Nov 23	41.0	⁻⁶	₋₅	40.6	⁻¹⁸	₋₅	39.3	⁻²⁹	₋₅	37.2	⁻⁴¹	₋₅	34.4	⁻⁵¹	₋₅	30.8	⁻⁶¹	₋₄	26.5	⁻⁷⁰	₋₄	21.6	⁻⁷⁸	₋₄	16.1	⁻⁸⁴	₋₃	10.2	⁻⁹⁰	₋₃	3.9	⁻⁹⁴	₋₂	-5.6	⁻⁹⁷	₋₁	-15.3								
Nov 24	40.6	⁻⁶	₋₅	40.2	⁻¹⁸	₋₅	39.0	⁻²⁹	₋₅	36.9	⁻⁴⁰	₋₄	34.1	⁻⁵¹	₋₄	30.5	⁻⁶⁰	₋₄	26.3	⁻⁶⁹	₋₄	21.4	⁻⁷⁷	₋₃	16.0	⁻⁸⁴	₋₃	10.1	⁻⁸⁹	₋₃	3.9	⁻⁹⁴	₋₂	-5.5	⁻⁹⁷	₋₁	-15.2								
Nov 25	40.3	⁻⁶	₋₄	39.9	⁻¹⁸	₋₄	38.6	⁻²⁹	₋₄	36.6	⁻⁴⁰	₋₄	33.8	⁻⁵⁰	₋₄	30.3	⁻⁶⁰	₋₄	26.1	⁻⁶⁹	₋₃	21.2	⁻⁷⁶	₋₃	15.9	⁻⁸³	₋₃	10.1	⁻⁸⁸	₋₂	3.8	⁻⁹³	₋₂	-5.5	⁻⁹⁶	₋₁	-15.1								
Nov 26	40.0	⁻⁶	₋₄	39.6	⁻¹⁷	₋₄	38.4	⁻²⁹	₋₄	36.3	⁻⁴⁰	₋₃	33.6	⁻⁵⁰	₋₃	30.1	⁻⁶⁰	₋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								
Nov 27	39.7	⁻⁶	₋₃	39.3	⁻¹⁷	₋₃	38.1	⁻²⁹	₋₃	36.1	⁻³⁹	₋₃	33.3	⁻⁵⁰	₋₃	29.9	⁻⁵⁹	₋₂	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 28	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	⁻⁸²	₋₁	9.9	⁻⁸⁷	₋₁	3.8	⁻⁹¹	₋₁	-5.4	⁻⁹⁴	₋₁	-14.8								
Nov 29	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	-14.8								
Nov 30	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								
Dec 1	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								
Dec 2	39.4	⁻⁶	₃	39.0	⁻¹⁷	₃	37.8	⁻²⁸	₃	35.8	⁻³⁹	₃	33.1	⁻⁵⁰	₃	29.6	⁻⁵⁹	₃	25.5	⁻⁶⁸	₂	20.8	⁻⁷⁵	₂	15.5	⁻⁸²	₂	9.8	⁻⁸⁷	₂	3.8	⁻⁹¹	₁	-5.4	⁻⁹⁴	₁	-14.8								
Dec 3	39.6	⁻⁶	₅	39.2	⁻¹⁷	₅	38.0	⁻²⁹	₅	36.0	⁻⁴⁰	₄	33.2	⁻⁵⁰	₄	29.8	⁻⁵⁹	₄	25.6	⁻⁶⁸	₄	20.9	⁻⁷⁶	₃	15.6	⁻⁸²	₃	9.9	⁻⁸⁷	₃	3.8	⁻⁹²	₂	-5.4	⁻⁹⁵	₁	-14.8								
Dec 4	39.9	⁻⁶	₆	39.5	⁻¹⁸	₆	38.3	⁻²⁹	₆	36.3	⁻⁴⁰	₆	33.5	⁻⁵⁰	₆	30.0	⁻⁶⁰	₅	25.8	⁻⁶⁹	₅	21.1	⁻⁷⁶	₄	15.7	⁻⁸³	₄	10.0	⁻⁸⁸	₃	3.8	⁻⁹³	₃	-5.4	⁻⁹⁶	₂	-15.0								
Dec 5	40.4	⁻⁶	₈	40.0	⁻¹⁸	₈	38.7	⁻²⁹	₈	36.7	⁻⁴⁰	₇	33.9	⁻⁵¹	₇	30.4	⁻⁶¹	₇	26.1	⁻⁷⁰	₆	21.3	⁻⁷⁷	₆	15.9	⁻⁸⁴	₅	10.1	⁻⁸⁹	₄	3.9	⁻⁹⁴	₃	-5.5	⁻⁹⁷	₂	-15.1								
Dec 6	40.9	⁻⁶	₉	40.5	⁻¹⁸	₉	39.3	⁻³⁰	₉	37.2	⁻⁴¹	₉	34.4	⁻⁵²	₈	30.8	⁻⁶²	₈	26.5	⁻⁷¹	₇	21.6	⁻⁷⁹	₆	16.1	⁻⁸⁵	₆	10.2	⁻⁹¹	₅	3.9	⁻⁹⁶	₄	-5.6	⁻⁹⁹	₃	-15.3								
Dec 7	41.6	⁻⁶	₁₀	41.2	⁻¹⁸	₁₀	39.9	⁻³⁰	₁₀	37.8	⁻⁴²	₉	34.9	⁻⁵³	₉	31.3	⁻⁶³	₈	26.9	⁻⁷²	₈	21.9	⁻⁸⁰	₇	16.4	⁻⁸⁷	₆	10.4	⁻⁹²	₅	4.0	⁻⁹⁷	₄	-5.7	⁻¹⁰⁰	₃	-15.6								
Dec 8	42.3	⁻⁶	₁₀	41.9	⁻¹⁹	₁₀	40.6	⁻³¹	₁₀	38.4	⁻⁴²	₉	35.5	⁻⁵³	₉	31.8	⁻⁶⁴	₈	27.4	⁻⁷³	₈	22.3	⁻⁸¹	₇	16.7	⁻⁸⁸	₆	10.5	⁻⁹⁴	₅	4.0	⁻⁹⁹	₄	-5.7	⁻¹⁰²	₃	-15.8								
Dec 9	43.0	⁻⁶	₉	42.5	⁻¹⁹	₉	41.2	⁻³¹	₉	39.1	⁻⁴³	₉	36.1	⁻⁵⁴	₈	32.3	⁻⁶⁵	₈	27.8	⁻⁷⁴	₇	22.7	⁻⁸²	₆	16.9	⁻⁸⁹	₆	10.7	⁻⁹⁵	₅	4.1	⁻¹⁰⁰	₄	-5.8	⁻¹⁰³	₃	-16.1								
Dec 10	43.6	⁻⁶	₇	43.2	⁻¹⁹	₇	41.8	⁻³²	₇	39.6	⁻⁴⁴	₇	36.6	⁻⁵⁵	₇	32.8	⁻⁶⁶	₆	28.2	⁻⁷⁵	₆	23.0	⁻⁸³	₅	17.2	⁻⁹¹	₅	10.9	⁻⁹⁶	₄	4.2	⁻¹⁰²	₃	-5.9	⁻¹⁰⁵	₂	-16.3								
Dec 11	44.1	⁻⁶	₅	43.7	⁻¹⁹	₅	42.3	⁻³²	₅	40.1	⁻⁴⁴	₄	37.0	⁻⁵⁶	₄	33.2	⁻⁶⁶	₄	28.6	⁻⁷⁶	₄	23.3	⁻⁸⁴	₃	17.4	⁻⁹²	₃	11.0	⁻⁹⁷	₂	4.2	⁻¹⁰³	₂	-6.0	⁻¹⁰⁶	₁	-16.5								
Dec 12	44.5	⁻⁷	₁	44.0	⁻¹⁹	₁	42.6	⁻³²	₁	40.4	⁻⁴⁴	₁	37.3	⁻⁵⁶	₁	33.4	⁻⁶⁶	₁	28.8	⁻⁷⁶	₁	23.4	⁻⁸⁵	₁	17.5	⁻⁹²	₁	11.1	⁻⁹⁸	₁	4.2	⁻¹⁰³	₁	-6.0	⁻¹⁰⁶	₀	-16.7								
Dec 13	44.6	⁻⁷	₋₂	44.1	⁻¹⁹	₋₂	42.7	⁻³²	₋₂	40.5	⁻⁴⁴	₋₂	37.4	⁻⁵⁶	₋₂	33.5	⁻⁶⁶	₋₂	28.8	⁻⁷⁶	₋₂	23.5	⁻⁸⁵	₋₁	17.6	⁻⁹²	₋₁	11.1	⁻⁹⁸	₋₁	4.3	⁻¹⁰³	₋₁	-6.1	⁻¹⁰⁶	₋₁	-16.7								
Dec 14	44.4	⁻⁶	₋₅	44.0	⁻¹⁹	₋₅	42.6	⁻³²	₋₅	40.4	⁻⁴⁴	₋₅	37.3	⁻⁵⁵	₋₄	33.4	⁻⁶⁶	₋₄	28.7	⁻⁷⁶	₋₄	23.4	⁻⁸⁴	₋₄	17.5	⁻⁹¹	₋₃	11.1	⁻⁹⁷	₋₃	4.2	⁻¹⁰²	₋₂	-6.0	⁻¹⁰⁶	₋₁	-16.6								
Dec 15	44.1	⁻⁶	₋₇	43.6	⁻¹⁹	₋₇	42.3	⁻³²	₋₇	40.0	⁻⁴⁴	₋₇	37.0	⁻⁵⁵	₋₆	33.1	⁻⁶⁵	₋₆	28.5	⁻⁷⁵	₋₆	23.2	⁻⁸³	₋₅	17.4	⁻⁹¹	₋₄	11.0	⁻⁹⁶	₋₄	4.2	⁻¹⁰¹	₋₃	-6.0	⁻¹⁰⁵	₋₂	-16.5								
Dec 16	43.6	⁻⁶	₋₉	43.1	⁻¹⁹	₋₉	41.8	⁻³¹	₋₈	39.6	⁻⁴³	₋₈	36.6	⁻⁵⁴	₋₈	32.7	⁻⁶⁵	₋₇	28.2	⁻⁷⁴	₋₇	23.0	⁻⁸²	₋₆	17.2	⁻⁸⁹	₋₅	10.9	⁻⁹⁵	₋₅	4.2	⁻¹⁰⁰	₋₄	-5.9	⁻¹⁰³	₋₂	-16.3								
Dec 17	43.0	⁻⁶	₋₉	42.5	⁻¹⁹	₋₉	41.2	⁻³¹	₋₉	39.1	⁻⁴²	₋₈	36.1	⁻⁵³	₋₈	32.3	⁻⁶⁴	₋₈	27.8	⁻⁷³	₋₇	22.7	⁻⁸¹	₋₆	16.9	⁻⁸⁸	₋₆	10.7	⁻⁹⁴	₋₅	4.1	⁻⁹⁹	₋₄	-5.8	⁻¹⁰²	₋₃	-16.1								
Dec 18	42.4	⁻⁶	₋₉	41.9	⁻¹⁸	₋₉	40.6	⁻³⁰	₋₈	38.5	⁻⁴²	₋₈	35.5	⁻⁵³	₋₈	31.8	⁻⁶³	₋₇	27.4	⁻⁷²	₋₇	22.3	⁻⁸⁰	₋₆	16.7	⁻⁸⁷	₋₅	10.6	⁻⁹²	₋₅	4.0	⁻⁹⁷	₋₄	-5.8	⁻¹⁰⁰	₋₂	-15.9								
Dec 19	41.7																																												