

Moon Data

A	actual distance d to the Moon in km	384,400
B	angular diameter θ in degrees	0.5
C	angular diameter θ in arcseconds $C = B \times 3600$	1,800
D	$D = \frac{d \theta}{206,265''} = \frac{A \times C}{206,265''}$	3,355
E	true diameter of the Moon in km	3,476
F	difference $F = D - E $ in km	121

Angular Diameters

A	B	C	E	F	G	H
Solar system body	r_p in km	Diameter D in km	Distance d from Sun in km	θ in " as seen from Sun in degrees	Minimum distance, d from Earth in km	Maximum θ in " as seen from Earth in degrees
Sun	695,990	1,391,980	N/A	N/A	149,597,900	1,919.26
Mercury	2,439	4,878	57,900,000	17.38	91,697,900	10.97
Venus	6,052	12,104	108,200,000	23.07	41,397,900	60.31
Earth	6,378	12,756	149,597,900	17.59	N/A	N/A
Mars	3,398	6,796	227,900,000	6.15	78,302,100	17.90
Jupiter	71,494	142,988	778,300,000	37.89	628,702,100	46.91
Saturn	60,330	120,660	1,427,000,000	17.44	1,277,402,100	19.48
Uranus	25,559	51,118	2,869,000,000	3.68	2,719,402,100	3.88
Neptune	24,750	49,500	4,497,100,000	2.27	4,347,502,100	2.35