

Surface Area (Pi r²)						
Diameter (inches)	Diameter (mm)	Pi	inches³	mm³	Limiting Magnitude	Lunar Resolution
1	25.40	3.14	0.79	506.45	9.5242	17.6385
2	50.80	3.14	3.14	2,025.80	11.0293	8.8192
3	76.20	3.14	7.07	4,558.06	11.9098	5.8795
4	101.60	3.14	12.56	8,103.21	12.5345	4.4096
5	127.00	3.14	19.63	12,661.27	13.0190	3.5277
6	152.40	3.14	28.26	18,232.22	13.4149	2.9397
7	177.80	3.14	38.47	24,816.08	13.7497	2.5198
8	203.20	3.14	50.24	32,412.84	14.0396	2.2048
9	228.60	3.14	63.59	41,022.50	14.2954	1.9598
10	254.00	3.14	78.50	50,645.06	14.5242	1.7638
11	279.40	3.14	94.99	61,280.52	14.7311	1.6035
12	304.80	3.14	113.04	72,928.89	14.9201	1.4699
13	330.20	3.14	132.67	85,590.15	15.0939	1.3568
14	355.60	3.14	153.86	99,264.32	15.2548	1.2599
15	381.00	3.14	176.63	113,951.39	15.4046	1.1759
16	406.40	3.14	200.96	129,651.35	15.5448	1.1024
17	431.80	3.14	226.87	146,364.22	15.6764	1.0376
18	457.20	3.14	254.34	164,089.99	15.8005	0.9799
19	482.60	3.14	283.39	182,828.67	15.9179	0.9283
20	508.00	3.14	314.00	202,580.24	16.0293	0.8819
21	533.40	3.14	346.19	223,344.71	16.1353	0.8399
22	558.80	3.14	379.94	245,122.09	16.2363	0.8017
23	584.20	3.14	415.27	267,912.37	16.3328	0.7669
24	609.60	3.14	452.16	291,715.55	16.4252	0.7349
25	635.00	3.14	490.63	316,531.63	16.5139	0.7055
26	660.40	3.14	530.66	342,360.61	16.5990	0.6784
27	685.80	3.14	572.27	369,202.49	16.6810	0.6533
28	711.20	3.14	615.44	397,057.27	16.7600	0.6299
29	736.60	3.14	660.19	425,924.95	16.8362	0.6082
30	762.00	3.14	706.50	455,805.54	16.9098	0.5879
31	787.40	3.14	754.39	486,699.03	16.9810	0.5690
32	812.80	3.14	803.84	518,605.41	17.0499	0.5512
33	838.20	3.14	854.87	551,524.70	17.1167	0.5345
34	863.60	3.14	907.46	585,456.89	17.1816	0.5188
35	889.00	3.14	961.63	620,401.99	17.2445	0.5040
36	914.40	3.14	1017.36	656,359.98	17.3057	0.4900