

# Telescope Calculation Sheet - Meade 14" f10

Parameters		Metric	Imperial
<b>356 mm</b>	Objective / Mirror Diameter	355.60 mm	14.00 in
<b>f 10.00</b>	f Ratio	f 10.00	f 10.00
	Focal Length	3556.00 mm	140.00 in
<b>50 °</b>	Default Eye Piece angle of view	50 °	50 °

M0 =	<b>6.50</b>
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Seeing in Arcseconds (see Instructions)	<b>4.00 arc sec</b>
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<b>Maximum Resolution =</b>	0.71 arc sec	- Airy Disc Diameter
	0.33 arc sec	- Dawes Limit

Eyepiece f/l	Eyepiece Field of View (Deg)	Magnification	Exit Pupil	Angle of View	Angle of View	Visual Limiting Magnitude
1.00 mm		3556.00	0.10 mm	0.01 °	00° 00'	19.3 mag
2.00 mm		1778.00	0.20 mm	0.03 °	00° 01'	18.5 mag
3.00 mm		1185.33	0.30 mm	0.04 °	00° 02'	18.1 mag
4.00 mm		889.00	0.40 mm	0.06 °	00° 03'	17.7 mag
5.00 mm		711.20	0.50 mm	0.07 °	00° 04'	17.5 mag
6.00 mm		592.67	0.60 mm	0.08 °	00° 05'	17.3 mag
7.00 mm		508.00	0.70 mm	0.10 °	00° 05'	17.1 mag
8.00 mm		444.50	0.80 mm	0.11 °	00° 06'	17.0 mag
9.00 mm		395.11	0.90 mm	0.13 °	00° 07'	16.9 mag
10.00 mm		355.60	1.00 mm	0.14 °	00° 08'	16.8 mag
11.00 mm		323.27	1.10 mm	0.15 °	00° 09'	16.7 mag
12.00 mm		296.33	1.20 mm	0.17 °	00° 10'	16.6 mag
13.00 mm		273.54	1.30 mm	0.18 °	00° 10'	16.5 mag
14.00 mm		254.00	1.40 mm	0.20 °	00° 11'	16.4 mag
15.00 mm		237.07	1.50 mm	0.21 °	00° 12'	16.3 mag
16.00 mm		222.25	1.60 mm	0.22 °	00° 13'	16.2 mag
17.00 mm		209.18	1.70 mm	0.24 °	00° 14'	16.2 mag
18.00 mm		197.56	1.80 mm	0.25 °	00° 15'	16.1 mag
19.00 mm		187.16	1.90 mm	0.27 °	00° 16'	16.1 mag
20.00 mm		177.80	2.00 mm	0.28 °	00° 16'	16.0 mag
21.00 mm		169.33	2.10 mm	0.30 °	00° 17'	15.9 mag
22.00 mm		161.64	2.20 mm	0.31 °	00° 18'	15.9 mag
23.00 mm		154.61	2.30 mm	0.32 °	00° 19'	15.9 mag
24.00 mm		148.17	2.40 mm	0.34 °	00° 20'	15.8 mag
25.00 mm		142.24	2.50 mm	0.35 °	00° 21'	15.8 mag
26.00 mm		136.77	2.60 mm	0.37 °	00° 21'	15.7 mag
27.00 mm		131.70	2.70 mm	0.38 °	00° 22'	15.7 mag
28.00 mm		127.00	2.80 mm	0.39 °	00° 23'	15.6 mag
29.00 mm		122.62	2.90 mm	0.41 °	00° 24'	15.6 mag
30.00 mm		118.53	3.00 mm	0.42 °	00° 25'	15.6 mag
31.00 mm		114.71	3.10 mm	0.44 °	00° 26'	15.5 mag
32.00 mm		111.13	3.20 mm	0.45 °	00° 27'	15.5 mag
33.00 mm		107.76	3.30 mm	0.46 °	00° 27'	15.5 mag
34.00 mm		104.59	3.40 mm	0.48 °	00° 28'	15.4 mag
35.00 mm		101.60	3.50 mm	0.49 °	00° 29'	15.4 mag
36.00 mm		98.78	3.60 mm	0.51 °	00° 30'	15.4 mag
37.00 mm		96.11	3.70 mm	0.52 °	00° 31'	15.3 mag
38.00 mm		93.58	3.80 mm	0.53 °	00° 32'	15.3 mag
39.00 mm		91.18	3.90 mm	0.55 °	00° 32'	15.3 mag
40.00 mm		88.90	4.00 mm	0.56 °	00° 33'	15.2 mag
41.00 mm		86.73	4.10 mm	0.58 °	00° 34'	15.2 mag
42.00 mm		84.67	4.20 mm	0.59 °	00° 35'	15.2 mag
43.00 mm		82.70	4.30 mm	0.60 °	00° 36'	15.2 mag
44.00 mm		80.82	4.40 mm	0.62 °	00° 37'	15.1 mag
45.00 mm		79.02	4.50 mm	0.63 °	00° 37'	15.1 mag
46.00 mm		77.30	4.60 mm	0.65 °	00° 38'	15.1 mag

Eyepiece f/l	Eyepiece Field of View (Deg)	Magnification	Exit Pupil	Angle of View	Angle of View	Visual Limiting Magnitude
47.00 mm		75.66	4.70 mm	0.66 °	00° 39'	15.1 mag
48.00 mm		74.08	4.80 mm	0.67 °	00° 40'	15.1 mag
49.00 mm		72.57	4.90 mm	0.69 °	00° 41'	15.0 mag
50.00 mm		71.12	5.00 mm	0.70 °	00° 42'	15.0 mag
51.00 mm		69.73	5.10 mm	0.72 °	00° 43'	15.0 mag
52.00 mm		68.38	5.20 mm	0.73 °	00° 43'	15.0 mag
53.00 mm		67.09	5.30 mm	0.75 °	00° 44'	14.9 mag
54.00 mm		65.85	5.40 mm	0.76 °	00° 45'	14.9 mag
55.00 mm		64.65	5.50 mm	0.77 °	00° 46'	14.9 mag
56.00 mm		63.50	5.60 mm	0.79 °	00° 47'	14.9 mag
57.00 mm		62.39	5.70 mm	0.80 °	00° 48'	14.9 mag
58.00 mm		61.31	5.80 mm	0.82 °	00° 48'	14.8 mag
59.00 mm		60.27	5.90 mm	0.83 °	00° 49'	14.8 mag
60.00 mm		59.27	6.00 mm	0.84 °	00° 50'	14.8 mag
61.00 mm		58.30	6.10 mm	0.86 °	00° 51'	14.8 mag
62.00 mm		57.35	6.20 mm	0.87 °	00° 52'	14.8 mag
63.00 mm		56.44	6.30 mm	0.89 °	00° 53'	14.8 mag
64.00 mm		55.56	6.40 mm	0.90 °	00° 54'	14.7 mag
65.00 mm		54.71	6.50 mm	0.91 °	00° 54'	14.7 mag
66.00 mm		53.88	6.60 mm	0.93 °	00° 55'	14.7 mag
67.00 mm		53.07	6.70 mm	0.94 °	00° 56'	14.7 mag
68.00 mm		52.29	6.80 mm	0.96 °	00° 57'	14.7 mag
69.00 mm		51.54	6.90 mm	0.97 °	00° 58'	14.7 mag
70.00 mm		50.80	7.00 mm	0.98 °	00° 59'	14.6 mag
71.00 mm		50.08	7.10 mm	1.00 °	00° 59'	14.6 mag
72.00 mm		49.39	7.20 mm	1.01 °	01° 00'	14.6 mag
73.00 mm		48.71	7.30 mm	1.03 °	01° 01'	14.6 mag
74.00 mm		48.05	7.40 mm	1.04 °	01° 02'	14.6 mag
75.00 mm		47.41	7.50 mm	1.05 °	01° 03'	14.6 mag
76.00 mm		46.79	7.60 mm	1.07 °	01° 04'	14.6 mag
77.00 mm		46.18	7.70 mm	1.08 °	01° 04'	14.5 mag
78.00 mm		45.59	7.80 mm	1.10 °	01° 05'	14.5 mag
79.00 mm		45.01	7.90 mm	1.11 °	01° 06'	14.5 mag
80.00 mm		44.45	8.00 mm	1.12 °	01° 07'	14.5 mag
81.00 mm		43.90	8.10 mm	1.14 °	01° 08'	14.5 mag
82.00 mm		43.37	8.20 mm	1.15 °	01° 09'	14.5 mag
83.00 mm		42.84	8.30 mm	1.17 °	01° 10'	14.5 mag
84.00 mm		42.33	8.40 mm	1.18 °	01° 10'	14.4 mag
85.00 mm		41.84	8.50 mm	1.20 °	01° 11'	14.4 mag
86.00 mm		41.35	8.60 mm	1.21 °	01° 12'	14.4 mag
87.00 mm		40.87	8.70 mm	1.22 °	01° 13'	14.4 mag
88.00 mm		40.41	8.80 mm	1.24 °	01° 14'	14.4 mag
89.00 mm		39.96	8.90 mm	1.25 °	01° 15'	14.4 mag
90.00 mm		39.51	9.00 mm	1.27 °	01° 15'	14.4 mag
91.00 mm		39.08	9.10 mm	1.28 °	01° 16'	14.4 mag
92.00 mm		38.65	9.20 mm	1.29 °	01° 17'	14.3 mag
93.00 mm		38.24	9.30 mm	1.31 °	01° 18'	14.3 mag
94.00 mm		37.83	9.40 mm	1.32 °	01° 19'	14.3 mag
95.00 mm		37.43	9.50 mm	1.34 °	01° 20'	14.3 mag
96.00 mm		37.04	9.60 mm	1.35 °	01° 20'	14.3 mag
97.00 mm		36.66	9.70 mm	1.36 °	01° 21'	14.3 mag
98.00 mm		36.29	9.80 mm	1.38 °	01° 22'	14.3 mag
99.00 mm		35.92	9.90 mm	1.39 °	01° 23'	14.3 mag
100.00 mm		35.56	10.00 mm	1.41 °	01° 24'	14.3 mag