80 mm Megrez apo		f/6.0	Objective Dia. = 80 mm			
			Objective F.L. = 480 mm			Power per inch
Eyepiece	E.P. f.l.	E.P. fld.	Magnif.	Field	Exit Pupil	
Explore 82°– 2"	30 mm	82°	16 x	5.13°	5.0 mm	5.1
Explore 82°– 2"	24 mm	82°	20 x	4.10°	4.0 mm	6.4
Explore 82°– 2"	18 mm	82°	27 x	3.08°	3.0 mm	8.5
Explore 82°	14 mm	82°	34 x	2.39°	2.3 mm	10.9
Explore 82°	11 mm	82°	44 x	1.88°	1.8 mm	13.9
Explore 82°	8.8 mm	82°	55 x	1.50°	1.5 mm	17.3
Explore 82°	6.7 mm	82°	72 x	1.14°	1.1 mm	22.7
Explore 82°	4.7 mm	82°	102 x	0.80°	0.8 mm	32.4
Stellarvue 100°– 2"	20 mm	100°	24 x	4.17°	3.3 mm	7.6
Stellarvue 100°	13.5 mm	100°	36 x	2.81°	2.3 mm	11.3
Stellarvue 100°	9 mm	100°	53 x	1.88°	1.5 mm	16.9
Stellarvue 110°	4.7 mm	110°	102 x	1.08°	0.8 mm	32.4
Stellarvue 110°	3.6 mm	110°	133 x	0.83°	0.6 mm	42.3
TV Nagler Zoom	6 mm	50°	80 x	0.63°	1.0 mm	25.4
TV Nagler Zoom	5 mm	50°	96 x	0.52°	0.8 mm	30.5
TV Nagler Zoom	4 mm	50°	120 x	0.42°	0.7 mm	38.1
TV Nagler Zoom	3 mm	50°	160 x	0.31°	0.5 mm	50.8

Last Update: August 16, 2018 **Limiting Visual Magnitude:** 12.2

Where magnification is at least: 80 x

per RASC Observer's Handbook 2018, pg 49

Stellarvue 130 mm apo		f/7.0	Objective Dia. = 130 mm			
			Objective F.L. = 910 mm			Power per inch
Eyepiece	E.P. f.l.	E.P. fld.	Magnif.	Field	Exit Pupil	
Explore 82°– 2"	30 mm	82°	30 x	2.70°	4.3 mm	5.9
Explore 82°– 2"	24 mm	82°	38 x	2.16°	3.4 mm	7.4
Explore 82°– 2"	18 mm	82°	51 x	1.62°	2.6 mm	9.9
Explore 82°	14 mm	82°	65 x	1.26°	2.0 mm	12.7
Explore 82°	11 mm	82°	83 x	0.99°	1.6 mm	16.2
Explore 82°	8.8 mm	82°	103 x	0.79°	1.3 mm	20.2
Explore 82°	6.7 mm	82°	136 x	0.60°	1.0 mm	26.5
Explore 82°	4.7 mm	82°	194 x	0.42°	0.7 mm	37.8
Stellarvue 100°– 2"	20 mm	100°	46 x	2.20°	2.9 mm	8.9
Stellarvue 100°	13.5 mm	100°	67 x	1.48°	1.9 mm	13.2
Stellarvue 100°	9 mm	100°	101 x	0.99°	1.3 mm	19.8
Stellarvue 110°	4.7 mm	110°	194 x	0.57°	0.7 mm	37.8
Stellarvue 110°	3.6 mm	110°	253 x	0.44°	0.5 mm	49.4
TV Nagler Zoom	6 mm	50°	152 x	0.33°	0.9 mm	29.6
TV Nagler Zoom	5 mm	50°	182 x	0.27°	0.7 mm	35.6
TV Nagler Zoom	4 mm	50°	228 x	0.22°	0.6 mm	44.5
TV Nagler Zoom	3 mm	50°	303 x	0.16°	0.4 mm	59.3

Last Update: August 16, 2018 **Limiting Visual Magnitude:** 13.3

Where magnification is at least: 130 x

per RASC Observer's Handbook 2018, pg 49

Discovery 12.5" Dob		f/5.0	Objective Dia. = 318 mm			
			Objective F.L. = 1588 mm			Power per inch
Eyepiece	E.P. f.l.	E.P. fld.	Magnif.	Field	Exit Pupil	
Explore 82°– 2"	30 mm	82°	53 x	1.55°	6.0 mm	4.2
Explore 82°– 2"	24 mm	82°	66 x	1.24°	4.8 mm	5.3
Explore 82°– 2"	18 mm	82°	88 x	0.93°	3.6 mm	7.1
Explore 82°	14 mm	82°	113 x	0.72°	2.8 mm	9.1
Explore 82°	11 mm	82°	144 x	0.57°	2.2 mm	11.5
Explore 82°	8.8 mm	82°	180 x	0.45°	1.8 mm	14.4
Explore 82°	6.7 mm	82°	237 x	0.35°	1.3 mm	19.0
Explore 82°	4.7 mm	82°	338 x	0.24°	0.9 mm	27.0
Stellarvue 100°– 2"	20 mm	100°	79 x	1.26°	4.0 mm	6.4
Stellarvue 100° (2")	13.5 mm	100°	118 x	0.85°	2.7 mm	9.4
Stellarvue 100° (2")	9 mm	100°	176 x	0.57°	1.8 mm	14.1
Stellarvue 110° (2")	4.7 mm	110°	338 x	0.33°	0.9 mm	27.0
Stellarvue 110° (2")	3.6 mm	110°	441 x	0.25°	0.7 mm	35.3
TV Nagler Zoom	6 mm	50°	265 x	0.19°	1.2 mm	21.2
TV Nagler Zoom	5 mm	50°	318 x	0.16°	1.0 mm	25.4
TV Nagler Zoom	4 mm	50°	397 x	0.13°	0.8 mm	31.8
TV Nagler Zoom	3 mm	50°	529 x	0.09°	0.6 mm	42.3

Last Update: August 16, 2018 **Limiting Visual Magnitude:** 15.2

Where magnification is at least: 318 x

per RASC Observer's Handbook 2018, pg 49

Explore 16" Dob		f/4.5	Objective Dia. = 406 mm			
			Objective F.L. = 1826 mm			Power per inch
Eyepiece	E.P. f.l.	E.P. fld.	Magnif.	Field	Exit Pupil	
Explore 82°– 2"	30 mm	82°	61 x	1.35°	6.7 mm	3.8
Explore 82°– 2"	24 mm	82°	76 x	1.08°	5.3 mm	4.8
Explore 82°– 2"	18 mm	82°	101 x	0.81°	4.0 mm	6.3
Explore 82°	14 mm	82°	130 x	0.63°	3.1 mm	8.2
Explore 82°	11 mm	82°	166 x	0.49°	2.4 mm	10.4
Explore 82°	8.8 mm	82°	207 x	0.40°	2.0 mm	13.0
Explore 82°	6.7 mm	82°	273 x	0.30°	1.5 mm	17.0
Explore 82°	4.7 mm	82°	389 x	0.21°	1.0 mm	24.3
Stellarvue 100°– 2"	20 mm	100°	91 x	1.10°	4.5 mm	5.7
Stellarvue 100° (2")	13.5 mm	100°	135 x	0.74°	3.0 mm	8.5
Stellarvue 100° (2")	9 mm	100°	203 x	0.49°	2.0 mm	12.7
Stellarvue 110° (2")	4.7 mm	110°	389 x	0.28°	1.0 mm	24.3
Stellarvue 110° (2")	3.6 mm	110°	507 x	0.22°	0.8 mm	31.7
TV Nagler Zoom	6 mm	50°	304 x	0.16°	1.3 mm	19.0
TV Nagler Zoom	5 mm	50°	365 x	0.14°	1.1 mm	22.8
TV Nagler Zoom	4 mm	50°	456 x	0.11°	0.9 mm	28.5
TV Nagler Zoom	3 mm	50°	609 x	0.08°	0.7 mm	38.0

Last Update: August 16, 2018 **Limiting Visual Magnitude:** 15.7

Where magnification is at least: 406 x

per RASC Observer's Handbook 2018, pg 49