Focal Length 50 mm

Circle of Confusion 0.025 mm

T/No	1	1.1	1.2	1.4	1.6	1.8	2
Hyperfocal Distance (ft-inch)	363' 7.31''	323' 11.68''	288' 7.98''	257' 2.46''	229' 2.16''	204' 2.55''	181' 11.62''

T/No	1		1.1		1.2		1.4		1.6		1.8		2	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	363' 4.76''	Infinity	323' 9.24''	Infinity	288' 5.59''	Infinity	257' 0.16''	Infinity	228' 11.9''	Infinity	204' 0.32''	Infinity	181' 9.42''	Infinity
120' 0''	90' 3.63''	178' 10.51''	87' 7.77''	190' 3.79''	84' 10.17''	205' 0.44''	81' 10.93''	224' 6.4''	78' 10.18''	251' 4.4''	75' 8.07''	290' 3.8''	72' 4.8''	351' 5.45''
60' 0''	51' 6.68''	71' 9.16''	50' 8.2''	73' 6.35''	49' 8.86''	75' 7.42''	48' 8.62''	78' 1.32''	47' 7.47''	81' 1.32''	46' 5.4''	84' 9.17''	45' 2.41''	89' 3.37''
40' 0''	36' 0.92''	44' 10.62''	35' 7.79''	45' 6.8''	35' 2.16''	46' 4.29''	34' 8.03''	47' 3.34''	34' 1.35''	48' 4.28''	33' 6.11''	49' 7.53''	32' 10.28''	51' 1.63''
30' 0''	27' 8.95''	32' 7.86''	27' 5.92''	33' 0.15''	27' 2.58''	33' 5.09''	26' 10.91''	33' 10.78''	26' 6.89''	34' 5.36''	26' 2.49''	35' 1.01''	25' 9.7''	35' 9.94''
25' 0''	23' 5.04''	26' 9.73''	23' 2.88''	27' 0.61''	23' 0.5''	27' 3.9''	22' 9.87''	27' 7.68''	22' 6.98''	28' 0.03''	22' 3.81''	28' 5.05''	22' 0.34''	28' 10.87''
20' 0''	18' 11.76''	21' 1.64''	18' 10.35''	21' 3.41''	18' 8.79''	21' 5.44''	18' 7.06''	21' 7.75''	18' 5.15''	21' 10.4''	18' 3.04''	22' 1.44''	18' 0.72''	22' 4.93''
15' 0''	14' 5.08''	15' 7.5''	14' 4.27''	15' 8.46''	14' 3.37''	15' 9.55''	14' 2.37''	15' 10.79''	14' 1.26''	16' 0.21''	14' 0.04''	16' 1.82''	13' 10.68''	16' 3.66''
12' 0''	11' 7.57''	12' 4.72''	11' 7.05''	12' 5.32''	11' 6.47''	12' 6''	11' 5.82''	12' 6.77''	11' 5.1''	12' 7.64''	11' 4.3''	12' 8.63''	11' 3.41''	12' 9.76''
11' 0''	10' 8.28''	11' 3.94''	10' 7.84''	11' 4.44''	10' 7.35''	11' 5''	10' 6.81''	11' 5.64''	10' 6.2''	11' 6.37''	10' 5.52''	11' 7.19''	10' 4.78''	11' 8.13''
10' 0''	9' 8.93''	10' 3.23''	9' 8.57''	10' 3.64''	9' 8.16''	10' 4.1''	9' 7.71''	10' 4.62''	9' 7.21''	10' 5.22''	9' 6.65''	10' 5.89''	9' 6.02''	10' 6.65''
9' 0''	8' 9.52''	9' 2.6''	8' 9.23''	9' 2.92''	8' 8.9''	9' 3.29''	8' 8.53''	9' 3.71''	8' 8.12''	9' 4.18''	8' 7.67''	9' 4.72''	8' 7.16''	9' 5.32''
8' 6''	8' 3.8''	8' 8.31''	8' 3.53''	8' 8.6''	8' 3.24''	8' 8.92''	8' 2.91''	8' 9.29''	8' 2.55''	8' 9.71''	8' 2.14''	8' 10.18''	8' 1.69''	8' 10.72''
8' 0''	7' 10.05''	8' 2.03''	7' 9.82''	8' 2.29''	7' 9.56''	8' 2.57''	7' 9.27''	8' 2.9''	7' 8.94''	8' 3.27''	7' 8.58''	8' 3.68''	7' 8.18''	8' 4.15''
7' 6''	7' 4.29''	7' 7.78''	7' 4.09''	7' 8''	7' 3.86''	7' 8.25''	7' 3.6''	7' 8.53''	7' 3.32''	7' 8.85''	7' 3''	7' 9.22''	7' 2.65''	7' 9.63''
7' 0''	6' 10.52''	7' 1.54''	6' 10.34''	7' 1.73''	6' 10.14''	7' 1.95''	6' 9.92''	7' 2.19''	6' 9.67''	7' 2.47''	6' 9.4''	7' 2.78''	6' 9.09''	7' 3.13''
6' 6''	6' 4.73''	6' 7.32''	6' 4.57''	6' 7.48''	6' 4.4''	6' 7.67''	6' 4.21''	6' 7.88''	6' 4''	6' 8.11''	6' 3.76''	6' 8.38''	6' 3.5''	6' 8.68''
6' 0''	5' 10.92''	6' 1.11''	5' 10.79''	6' 1.25''	5' 10.65''	6' 1.41''	5' 10.48''	6' 1.58''	5' 10.3''	6' 1.78''	5' 10.1''	6' 2.01''	5' 9.87''	6' 2.26''
5' 6''	5' 5.1''	5' 6.93''	5' 4.99''	5' 7.04''	5' 4.87''	5' 7.17''	5' 4.73''	5' 7.32''	5' 4.58''	5' 7.48''	5' 4.41''	5' 7.67''	5' 4.22''	5' 7.88''
5' 0''	4' 11.26''	5' 0.76''	4' 11.17''	5' 0.85''	4' 11.07''	5' 0.96''	4' 10.96''	5' 1.08''	4' 10.84''	5' 1.21''	4' 10.7''	5' 1.36''	4' 10.54''	5' 1.54''
4' 6''	4' 5.41''	4' 6.61''	4' 5.34''	4' 6.68''	4' 5.26''	4' 6.77''	1.35	4' 6.86''	4' 5.07''	4' 6.97''	4' 4.95''	4' 7.09''	4' 4.83''	4' 7.23''
4' 0''	3' 11.54''	4' 0.47''	3' 11.48''	4' 0.53''	3' 11.42''	4' 0.6''	3' 11.35''	4' 0.67''	3' 11.27''	4' 0.75''	3' 11.18''	4' 0.85''	3' 11.08''	4' 0.95''
3' 6''	3' 5.65''	3' 6.35''	3' 5.61''	3' 6.4''	3' 5.56''	3' 6.45''	3' 5.51''	3' 6.5''	3' 5.45''	3' 6.56''	3' 5.38''	3' 6.64''	3' 5.31''	3' 6.71''
3' 0''	2' 11.75''	3' 0.25''	2' 11.72''	3' 0.28''	2' 11.69''	3' 0.32''	2' 11.65''	3' 0.36''	2' 11.61''	3' 0.4''	2' 11.56''	3' 0.45''	2' 11.5''	3' 0.51''
2' 9''	2' 8.79''	2' 9.21''	2' 8.77''	2' 9.24''	2' 8.74''	2' 9.26''	2' 8.71''	2' 9.3''	2' 8.67''	2' 9.33''	2' 8.63''	2' 9.38''	2' 8.59''	2' 9.42''
2' 6''	2' 5.83''	2' 6.17''	2' 5.81''	2' 6.19''	2' 5.79''	2' 6.21''	2' 5.76''	2' 6.24''	2' 5.73''	2' 6.27''	2' 5.7''	2' 6.3''	2' 5.67''	2' 6.34''
2' 3''	2' 2.87''	2' 3.13''	2' 2.85''	2' 3.15''	2' 2.83''	2' 3.17''	2' 2.81''	2' 3.19''	2' 2.79''	2' 3.21''	2' 2.76''	2' 3.24''	2' 2.74''	2' 3.27''
2' 0''	1' 11.9''	2' 0.1''	1' 11.89''	2' 0.12''	1' 11.87''	2' 0.13''	1' 11.86''	2' 0.15''	1' 11.84''	2' 0.16''	1' 11.82''	2' 0.18''	1' 11.8''	2' 0.21''
1' 9''	1' 8.93''	1' 9.08''	1' 8.92''	1' 9.08''	1' 8.91''	1' 9.1''	1' 8.89''	1' 9.11''	1' 8.88''	1' 9.12''	1' 8.87''	1' 9.13''	1' 8.85''	1' 9.15''
1' 8''	1' 7.93''	1' 8.07''	1' 7.93''	1' 8.08''	1' 7.92''	1' 8.08''	1' 7.91''	1' 8.1''	1' 7.89''	1' 8.11''	1' 7.88''	1' 8.12''	1' 7.87''	1' 8.14''

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2.2	2.5	2.8	3.2	3.5	4	4.5	5
162' 1.79''	144' 5.94''	128' 9.2''	114' 9.05''	102' 3.2''	91' 1.74''	81' 2.84''	72' 4.94''

2.2		2.5		2.8		3.2		3.5		4		4.5		5	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
161' 11.63''	Infinity	144' 3.79''	Infinity	128' 7.06''	Infinity	114' 6.91''	Infinity	102' 1.11''	Infinity	90' 11.66''	Infinity	81' 0.76''	Infinity	72' 2.83''	Infinity
69' 0.59''	460' 3.3''	65' 7.68''	705' 6.44''	62' 2.32''	1756' 2.45''	58' 8.8''	Infinity	55' 3.38''	Infinity	51' 10.35''	Infinity	48' 5.96''	Infinity	45' 2.46''	Infinity
43' 10.52''	94' 11.54''	42' 5.76''	102' 3.2''	41' 0.18''	111' 11.22''	39' 5.84''	125' 2.72''	37' 10.83''	144' 5.9''	36' 3.23''	174' 7.95''	34' 7.16''	228' 1.91''	32' 10.74''	347' 9.29''
32' 1.85''	52' 11.31''	31' 4.81''	55' 1.55''	30' 7.15''	57' 9.72''	29' 8.89''	61' 1.78''	28' 10.04''	65' 4.66''	27' 10.62''	70' 10.91''	26' 10.68''	78' 4.04''	25' 10.25''	88' 9.34''
25' 4.5''	36' 8.43''	24' 10.86''	37' 8.83''	24' 4.78''	38' 11.61''	23' 10.24''	40' 5.4''	23' 3.25''	42' 3.07''	22' 7.79''	44' 5.82''	21' 11.89''	47' 3.43''	21' 3.55''	50' 10.61''
21' 8.55''	29' 5.64''	21' 4.43''	30' 1.57''	20' 11.95''	30' 10.9''	20' 7.11''	31' 9.97''	20' 1.9''	32' 11.21''	19' 8.3''	34' 3.22''	19' 2.32''	35' 10.82''	18' 7.97''	37' 11.18''
17' 10.18''	22' 8.96''	17' 7.4''	23' 1.64''	17' 4.36''	23' 7.08''	17' 1.06''	24' 1.45''	16' 9.47''	24' 8.96''	16' 5.59''	25' 5.86''	16' 1.42''	26' 4.52''	15' 8.93''	27' 5.41''
13' 9.19''	16' 5.77''	13' 7.54''	16' 8.19''	13' 5.73''	16' 10.98''	13' 3.75''	17' 2.21''	13' 1.58''	17' 5.96''	12' 11.22''	17' 10.33''	12' 8.65''	18' 3.47''	12' 5.87''	18' 9.54''
11' 2.43''	12' 11.05''	11' 1.35''	13' 0.53''	11' 0.15''	13' 2.21''	10' 10.84''	13' 4.15''	10' 9.39''	13' 6.39''	10' 7.81''	13' 8.97''	10' 6.07''	13' 11.97''	10' 4.18''	14' 3.47''
10' 3.95''	11' 9.19''	10' 3.03''	11' 10.41''	10' 2.01''	11' 11.8''	10' 0.89''	12' 1.39''	9' 11.66''	12' 3.22''	9' 10.31''	12' 5.34''	9' 8.83''	12' 7.78''	9' 7.21''	12' 10.63''
9' 5.33''	10' 7.51''	9' 4.57''	10' 8.5''	9' 3.72''	10' 9.63''	9' 2.79''	10' 10.91''	9' 1.76''	11' 0.39''	9' 0.62''	11' 2.09''	8' 11.38''	11' 4.05''	8' 10.02''	11' 6.32''
8' 6.6''	9' 6.01''	8' 5.97''	9' 6.8''	8' 5.28''	9' 7.69''	8' 4.52''	9' 8.71''	8' 3.67''	9' 9.87''	8' 2.74''	9' 11.21''	8' 1.72''	10' 0.75''	8' 0.6''	10' 2.52''
8' 1.18''	8' 11.33''	8' 0.63''	9' 0.02''	8' 0.01''	9' 0.81''	7' 11.32''	9' 1.71''	7' 10.56''	9' 2.73''	7' 9.73''	9' 3.91''	7' 8.81''	9' 5.26''	7' 7.8''	9' 6.81''
7' 7.74''	8' 4.69''	7' 7.24''	8' 5.29''	7' 6.69''	8' 5.98''	7' 6.08''	8' 6.77''	7' 5.41''	8' 7.67''	7' 4.66''	8' 8.69''	7' 3.84''	8' 9.87''	7' 2.94''	8' 11.22''
7' 2.26''	7' 10.09''	7' 1.82''	7' 10.62''	7' 1.34''	7' 11.22''	7' 0.8''	7' 11.9''	7' 0.2''	8' 0.67''	6' 11.55''	8' 1.56''	6' 10.82''	8' 2.58''	6' 10.02''	8' 3.74''
6' 8.75''	7' 3.53''	6' 8.36''	7' 3.99''	6' 7.94''	7' 4.5''	6' 7.47''	7' 5.09''	6' 6.95''	7' 5.76''	6' 6.38''	7' 6.52''	6' 5.74''	7' 7.39''	6' 5.04''	7' 8.38''
6' 3.2''	6' 9.02''	6' 2.87''	6' 9.41''	6' 2.51''	6' 9.85''	6' 2.1''	6' 10.34''	6' 1.65''	6' 10.91''	6' 1.15''	6' 11.56''	6' 0.6''	7' 0.29''	5' 11.99''	7' 1.14''
5' 9.62''	6' 2.55''	5' 9.34''	6' 2.87''	5' 9.03''	6' 3.24''	5' 8.68''	6' 3.66''	5' 8.3''	6' 4.14''	5' 7.87''	6' 4.68''	5' 7.4''	6' 5.29''	5' 6.88''	6' 6''
5' 4.01''	5' 8.12''	5' 3.78''	5' 8.39''	5' 3.52''	5' 8.69''	5' 3.22''	5' 9.04''	5' 2.9''	5' 9.43''	5' 2.54''	5' 9.88''	5' 2.14''	5' 10.38''	5' 1.7''	5' 10.96''
4' 10.37''	5' 1.73''	4' 10.17''	5' 1.95''	4' 9.96''	5' 2.2''	4' 9.72''	5' 2.48''	4' 9.45''	5' 2.8''	4' 9.15''	5' 3.16''	4' 8.82''	5' 3.57''	4' 8.46''	5' 4.03''
4' 4.69''	4' 7.38''	4' 4.53''	4' 7.56''	4' 4.36''	4' 7.75''	4' 4.16''	4' 7.98''	4' 3.95''	4' 8.23''	4' 3.71''	4' 8.51''	4' 3.44''	4' 8.84''	4' 3.14''	4' 9.21''
3' 10.98''	4' 1.07''	3' 10.85''	4' 1.21''	3' 10.72''	4' 1.36''	3' 10.56''	4' 1.53''	3' 10.39''	4' 1.73''	3' 10.2''	4' 1.95''	3' 9.99''	4' 2.2''	3' 9.76''	4' 2.48''
3' 5.23''	3' 6.8''	3' 5.13''	3' 6.9''	3' 5.03''	3' 7.02''	3' 4.92''	3' 7.15''	3' 4.79''	3' 7.29''	3' 4.64''	3' 7.45''	3' 4.48''	3' 7.64''	3' 4.31''	3' 7.85''
2' 11.44''	3' 0.57''	2' 11.38''	3' 0.65''	2' 11.3''	3' 0.73''	2' 11.22''	3' 0.82''	2' 11.13''	3' 0.92''	2' 11.02''	3' 1.04''	2' 10.91''	3' 1.17''	2' 10.78''	3' 1.32''
2' 8.54''	2' 9.47''	2' 8.48''	2' 9.53''	2' 8.42''	2' 9.6''	2' 8.35''	2' 9.67''	2' 8.28''	2' 9.76''	2' 8.19''	2' 9.85''	2' 8.09''	2' 9.96''	2' 7.99''	2' 10.08''
2' 5.63''	2' 6.38''	2' 5.58''	2' 6.43''	2' 5.53''	2' 6.49''	2' 5.47''	2' 6.55''	2' 5.41''	2' 6.61''	2' 5.34''	2' 6.69''	2' 5.26''	2' 6.78''	2' 5.18''	2' 6.88''
2' 2.7''	2' 3.3''	2' 2.67''	2' 3.34''	2' 2.63''	2' 3.38''	2' 2.58''	2' 3.43''	2' 2.53''	2' 3.48''	2' 2.48''	2' 3.54''	2' 2.42''	2' 3.61''	2' 2.35''	2' 3.69''
1' 11.77''	2' 0.23''	1' 11.75''	2' 0.26''	1' 11.71''	2' 0.29''	1' 11.68''	2' 0.33''	1' 11.64''	2' 0.37''	1' 11.6''	2' 0.42''	1' 11.55''	2' 0.47''	1' 11.5''	2' 0.53''
1' 8.83''	1' 9.17''	1' 8.81''	1' 9.19''	1' 8.79''	1' 9.21''	1' 8.76''	1' 9.24''	1' 8.74''	1' 9.27''	1' 8.7''	1' 9.31''	1' 8.67''	1' 9.34''	1' 8.63''	1' 9.39''
1' 7.85''	1' 8.15''	1' 7.83''	1' 8.17''	1' 7.81''	1' 8.19''	1' 7.79''	1' 8.22''	1' 7.76''	1' 8.24''	1' 7.74''	1' 8.27''	1' 7.7''	1' 8.31''	1' 7.67''	1' 8.34''

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5.6	6.3	7.1	8	9	10	11	13
64' 6.57''	57' 6.47''	51' 3.55''	45' 8.82''	40' 9.37''	36' 4.42''	32' 5.21''	28' 11.2''

5.6		6.3		7.1		8		9		10		11		13	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
64' 4.46''	Infinity	57' 4.39''	Infinity	51' 1.48''	Infinity	45' 6.75''	Infinity	40' 7.3''	Infinity	36' 2.34''	Infinity	32' 3.15''	Infinity	28' 9.11''	Infinity
42' 0.07''	Infinity	38' 11''	Infinity	35' 11.41''	Infinity	33' 1.44''	Infinity	30' 5.18''	Infinity	27' 10.71''	Infinity	25' 6.08''	Infinity	23' 3.29''	Infinity
31' 2.09''	845' 7.85''	29' 5.36''	Infinity	27' 8.67''	Infinity	26' 0.18''	Infinity	24' 4''	Infinity	22' 8.26''	Infinity	21' 1.08''	Infinity	19' 6.55''	Infinity
24' 9.4''	104' 4.88''	23' 8.2''	130' 1.63''	22' 6.71''	179' 11.27''	21' 5.04''	315' 7.31''	20' 3.25''	2062' 4.42''	19' 1.45''	Infinity	17' 11.72''	Infinity	16' 10.17''	Infinity
20' 6.81''	55' 7.66''	19' 9.68''	62' 1.93''	19' 0.21''	71' 7.05''	18' 2.45''	86' 3.41''	17' 4.45''	112' 1.77''	16' 6.27''	169' 1.05''	15' 7.98''	393' 7.68''	14' 9.64''	Infinity
18' 1.24''	40' 6.04''	17' 6.16''	43' 10.1''	16' 10.74''	48' 3.77''	16' 3.03''	54' 6.79''	15' 7.04''	63' 10.17''	14' 10.83''	78' 11.18''	14' 2.44''	107' 5.43''	13' 5.92''	180' 10.88''
15' 4.15''	28' 9.19''	14' 11.06''	30' 4.82''	14' 5.67''	32' 5.72''	14'	35' 2.07''	13' 6.07''	38' 9.47''	12' 11.9''	43' 10.28''	12' 5.51''	51' 4.8''	11' 10.95''	63' 8.58''
12' 2.86''	19' 4.77''	11' 11.63''	20' 1.46''	11' 8.17''	21' 0.03''	11' 4.49''	22' 1.06''	11' 0.58''	23' 5.41''	10' 8.45''	25' 2.35''	10' 4.12''	27' 5.95''	9' 11.59''	30' 7.65''
10' 2.13''	14' 7.59''	9' 11.91''	15' 0.45''	9' 9.51''	15' 6.23''	9' 6.93''	16' 1.2''	9' 4.16''	16' 9.66''	9' 1.22''	17' 8.11''	8' 10.09''	18' 9.22''	8' 6.8''	20' 2.02''
9' 5.45''	13' 1.95''	9' 3.53''	13' 5.86''	9' 1.46''	13' 10.48''	8' 11.23''	14' 4''	8' 8.83''	14' 10.65''	8' 6.26''	15' 6.77''	8' 3.52''	16' 4.82''	8' 0.63''	17' 5.48''
8' 8.53''	11' 8.96''	8' 6.91''	12' 0.05''	8' 5.15''	12' 3.68''	8' 3.25''	12' 7.99''	8' 1.2''	13' 1.14''	7' 10.99''	13' 7.35''	7' 8.64''	14' 2.95''	7' 6.14''	15' 0.38''
7' 11.37''	10' 4.58''	7' 10.02''	10' 6.97''	7' 8.56''	10' 9.77''	7' 6.97''	11' 1.07''	7' 5.26''	11' 4.98''	7' 3.41''	11' 9.65''	7' 1.42''	12' 3.3''	6' 11.3''	12' 10.2''
7' 6.69''	9' 8.61''	7' 5.48''	9' 10.7''	7' 4.16''	10' 1.13''	7' 2.72''	10' 3.99''	7' 1.16''	10' 7.36''	6' 11.48''	10' 11.38''	6' 9.67''	11' 4.21''	6' 7.74''	11' 10.07''
7' 1.95''	9' 0.78''	7' 0.86''	9' 2.59''	6' 11.68''	9' 4.69''	6' 10.39''	9' 7.15''	6' 8.99''	9' 10.04''	6' 7.47''	10' 1.47''	6' 5.84''	10' 5.57''	6' 4.08''	10' 10.52''
6' 9.14''	8' 5.09''	6' 8.18''	8' 6.64''	6' 7.12''	8' 8.44''	6' 5.97''	8' 10.54''	6' 4.72''	9' 1.01''	6' 3.36''	9' 3.91''	6' 1.9''	9' 7.37''	6' 0.32''	9' 11.51''
6' 4.26''	7' 9.53''	6' 3.42''	7' 10.85''	6' 2.49''	8' 0.38''	6' 1.47''	8' 2.16''	6' 0.36''	8' 4.23''	5' 11.16''	8' 6.67''	5' 9.86''	8' 9.56''	5' 8.46''	9' 1''
5' 11.32''	7' 2.1''	5' 10.58''	7' 3.21''	5' 9.77''	7' 4.5''	5' 8.88''	7' 5.99''	5' 7.91''	7' 7.72''	5' 6.86''	7' 9.75''	5' 5.72''	8' 0.13''	5' 4.48''	8' 2.96''
5' 6.3''	6' 6.8''	5' 5.67''	6' 7.73''	5' 4.97''	6' 8.79''	5' 4.21''	6' 10.02''	5' 3.37''	6' 11.45''	5' 2.46''	7' 1.11''	5' 1.46''	7' 3.06''	5' 0.39''	7' 5.36''
5' 1.22''	5' 11.62''	5' 0.68''	6' 0.38''	5' 0.09''	6' 1.25''	4' 11.44''	6' 2.25''	4' 10.72''	6' 3.41''	4' 9.94''	6' 4.76''	4' 9.1''	6' 6.33''	4' 8.17''	6' 8.17''
4' 8.05''	5' 4.57''	4' 7.61''	5' 5.17''	4' 7.11''	5' 5.87''	4' 6.57''	5' 6.67''	4' 5.98''	5' 7.6''	4' 5.32''	5' 8.67''	4' 4.61''	5' 9.91''	4' 3.83''	5' 11.36''
4' 2.82''	4' 9.63''	4' 2.45''	4' 10.11''	4' 2.05''	4' 10.65''	4' 1.61''	4' 11.28''	4' 1.12''	5'	4' 0.59''	5' 0.83''	4'	5' 1.79''	3' 11.36''	5' 2.91''
3' 9.5''	4' 2.8''	3' 9.21''	4' 3.17''	3' 8.9''	4' 3.59''	3' 8.54''	4' 4.06''	3' 8.16''	4' 4.61''	3' 7.73''	4' 5.24''	3' 7.26''	4' 5.97''	3' 6.75''	4' 6.8''
3' 4.11''	3' 8.09''	3' 3.89''	3' 8.36''	3' 3.65''	3' 8.67''	3' 3.38''	3' 9.02''	3' 3.08''	3' 9.42''	3' 2.75''	3' 9.88''	3' 2.39''	3' 10.41''	3' 1.99''	3' 11.01''
2' 10.63''	3' 1.48''	2' 10.47''	3' 1.68''	2' 10.3''	3' 1.89''	2' 10.1''	3' 2.14''	2' 9.88''	3' 2.42''	2' 9.64''	3' 2.74''	2' 9.37''	3' 3.1''	2' 9.08''	3' 3.52''
2' 7.87''	2' 10.22''	2' 7.73''	2' 10.38''	2' 7.58''	2' 10.56''	2' 7.42''	2' 10.76''	2' 7.24''	2' 10.99''	2' 7.04''	2' 11.25''	2' 6.81''	2' 11.55''	2' 6.57''	2' 11.89''
2' 5.08''	2' 6.99''	2' 4.97''	2' 7.11''	2' 4.85''	2' 7.26''	2' 4.71''	2' 7.42''	2' 4.56''	2' 7.6''	2' 4.4''	2' 7.81''	2' 4.21''	2' 8.05''	2' 4.01''	2' 8.32''
2' 2.27''	2' 3.78''	2' 2.18''	2' 3.88''	2' 2.08''	2' 3.99''	2' 1.98''	2' 4.11''	2' 1.86''	2' 4.26''	2' 1.72''	2' 4.42''	2' 1.58''	2' 4.6''	2' 1.41''	2' 4.81''
1' 11.44''	2' 0.59''	1' 11.37''	2' 0.67''	1' 11.3''	2' 0.75''	1' 11.21''	2' 0.85''	1' 11.12''	2' 0.96''	1' 11.02''	2' 1.08''	1' 10.9''	2' 1.22''	1' 10.77''	2' 1.38''
1' 8.58''	1' 9.43''	1' 8.53''	1' 9.49''	1' 8.48''	1' 9.55''	1' 8.42''	1' 9.62''	1' 8.35''	1' 9.7''	1' 8.27''	1' 9.79''	1' 8.19''	1' 9.89''	1' 8.09''	1' 10''
1' 7.63''	1' 8.39''	1' 7.58''	1' 8.44''	1' 7.53''	1' 8.49''	1' 7.48''	1' 8.55''	1' 7.42''	1' 8.62''	1' 7.35''	1' 8.7''	1' 7.27''	1' 8.79''	1' 7.19''	1' 8.89''

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14	16	18	20	22
25' 9.72''	23' 0.38''	20' 6.65''	18' 4.16''	16' 4.57''

14		16		18		20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
25' 7.66''	Infinity	22' 10.3''	Infinity	20' 4.57''	Infinity	18' 2.09''	Infinity	16' 2.49''	Infinity
21' 2.33''	Infinity	19' 3.18''	Infinity	17' 5.78''	Infinity	15' 10.06''	Infinity	14' 3.95''	Infinity
18' 0.76''	Infinity	16' 7.77''	Infinity	15' 3.65''	Infinity	14' 0.41''	Infinity	12' 10.09''	Infinity
15' 8.86''	Infinity	14' 7.88''	Infinity	13' 7.3''	Infinity	12' 7.19''	Infinity	11' 7.59''	Infinity
13' 11.32''	Infinity	13' 1.09''	Infinity	12' 3.02''	Infinity	11' 5.16''	Infinity	10' 7.58''	Infinity
12' 9.33''	780' 7.7''	12' 0.72''	Infinity	11' 4.16''	Infinity	10' 7.69''	Infinity	9' 11.37''	Infinity
11' 4.24''	87' 2.31''	10' 9.43''	148' 10.04''	10' 2.57''	725' 3.46''	9' 7.7''	Infinity	9' 0.85''	Infinity
9' 6.9''	35' 1.83''	9' 2.06''	42' 1.55''	8' 9.09''	54' 2.76''	8' 4.04''	80' 1.2''	7' 10.92''	172' 9.71''
8' 3.34''	22' 0.17''	7' 11.72''	24' 6.46''	7' 7.98''	28' 2.03''	7' 4.11''	33' 9.5''	7' 0.15''	43' 6.87''
7' 9.58''	18' 9.81''	7' 6.37''	20' 7.49''	7' 3.04''	23' 1.43''	6' 11.58''	26' 9.12''	6' 8.02''	32' 6.23''
7' 3.49''	16' 0.3''	7' 0.69''	17' 3.73''	6' 9.77''	19' 0.32''	6' 6.72''	21' 4.96''	6' 3.57''	24' 11.16''
6' 9.04''	13' 6.78''	6' 6.65''	14' 5.64''	6' 4.14''	15' 7.71''	6' 1.5''	17' 2.53''	5' 10.76''	19' 4.78''
6' 5.67''	12' 5.3''	6' 3.48''	13' 2.35''	6' 1.17''	14' 1.93''	5' 10.74''	15' 5.15''	5' 8.21''	17' 1.9''
6' 2.21''	11' 4.57''	6' 0.21''	12' 0.08''	5' 10.1''	12' 9.57''	5' 7.88''	13' 9.84''	5' 5.55''	15' 2.23''
5' 10.63''	10' 4.54''	5' 8.83''	10' 10.73''	5' 6.92''	11' 6.46''	5' 4.9''	12' 4.32''	5' 2.77''	13' 5.23''
5' 6.95''	9' 5.15''	5' 5.33''	9' 10.21''	5' 3.62''	10' 4.46''	5' 1.79''	11' 0.33''	4' 11.87''	11' 10.46''
5' 3.15''	8' 6.35''	5' 1.72''	8' 10.45''	5' 0.19''	9' 3.46''	4' 10.56''	9' 9.7''	4' 8.84''	10' 5.6''
4' 11.22''	7' 8.1''	4' 9.97''	7' 11.38''	4' 8.63''	8' 3.36''	4' 7.2''	8' 8.25''	4' 5.68''	9' 2.35''
4' 7.17''	6' 10.35''	4' 6.09''	7' 0.94''	4' 4.93''	7' 4.06''	4' 3.69''	7' 7.84''	4' 2.36''	8' 0.51''
4' 2.99''	6' 1.06''	4' 2.07''	6' 3.08''	4' 1.08''	6' 5.48''	4' 0.02''	6' 8.37''	3' 10.88''	6' 11.89''
3' 10.66''	5' 4.22''	3' 9.9''	5' 5.75''	3' 9.08''	5' 7.56''	3' 8.19''	5' 9.73''	3' 7.24''	6' 0.33''
3' 6.18''	4' 7.78''	3' 5.57''	4' 8.91''	3' 4.9''	4' 10.25''	3' 4.18''	4' 11.82''	3' 3.4''	5' 1.7''
3' 1.55''	3' 11.71''	3' 1.07''	4' 0.53''	3' 0.55''	4' 1.48''	2' 11.98''	4' 2.59''	2' 11.37''	4' 3.9''
2' 8.76''	3' 4.01''	2' 8.4''	3' 4.56''	2' 8.01''	3' 5.21''	2' 7.59''	3' 5.95''	2' 7.12''	3' 6.83''
2' 6.29''	3' 0.28''	2' 5.99''	3' 0.73''	2' 5.66''	3' 1.24''	2' 5.3''	3' 1.84''	2' 4.91''	3' 2.54''
2' 3.79''	2' 8.63''	2' 3.54''	2' 8.98''	2' 3.27''	2' 9.39''	2' 2.97''	2' 9.86''	2' 2.64''	2' 10.41''
2' 1.23''	2' 5.06''	2' 1.03''	2' 5.33''	2' 0.81''	2' 5.65''	2' 0.57''	2' 6.01''	2' 0.31''	2' 6.43''
1' 10.63''	2' 1.56''	1' 10.48''	2' 1.76''	1' 10.31''	2' 2''	1' 10.12''	2' 2.27''	1' 9.91''	2' 2.58''
1' 7.99''	1' 10.13''	1' 7.87''	1' 10.28''	1' 7.74''	1' 10.45''	1' 7.6''	1' 10.64''	1' 7.44''	1' 10.87''
1' 7.09''	1' 9.01''	1' 6.99''	1' 9.14''	1' 6.87''	1' 9.29''	1' 6.74''	1' 9.46''	1' 6.6''	1' 9.66''

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Focal Length 18 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	30' 2.83''	28' 7.03''	25' 6.02''	22' 8.99''	20' 3.62''	18' 1.4''	16' 2.09''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	30' 2.09''	Infinity	28' 6.31''	Infinity	25' 5.27''	Infinity	22' 8.28''	Infinity	20' 2.88''	Infinity	18' 0.69''	Infinity	16' 1.36''	Infinity
120' 0''	24' 2.36''	Infinity	23' 1.56''	Infinity	21' 0.8''	Infinity	19' 1.83''	Infinity	17' 4.61''	Infinity	15' 9.07''	Infinity	14' 3.13''	Infinity
60' 0''	20' 2.35''	Infinity	19' 5.4''	Infinity	17' 11.71''	Infinity	16' 6.83''	Infinity	15' 2.81''	Infinity	13' 11.69''	Infinity	12' 9.48''	Infinity
40' 0''	17' 3.96''	Infinity	16' 9.36''	Infinity	15' 8.11''	Infinity	14' 7.2''	Infinity	13' 6.7''	Infinity	12' 6.66''	Infinity	11' 7.14''	Infinity
30' 0''	15' 2.12''	Infinity	14' 9.06''	Infinity	13' 10.78''	Infinity	13' 0.59''	Infinity	12' 2.56''	Infinity	11' 4.76''	Infinity	10' 7.24''	Infinity
25' 0''	13' 9.65''	141' 10.29''	13' 5.47''	195' 6.73''	12' 8.9''	1247' 8.53''	12' 0.32''	Infinity	11' 3.79''	Infinity	10' 7.37''	Infinity	9' 11.09''	Infinity
20' 0''	12' 1.86''	58' 0.59''	11' 10.63''	65' 4.24''	11' 3.94''	90' 9.65''	10' 9.15''	161' 7.1''	10' 2.31''	1315' 2.81''	9' 7.46''	Infinity	9' 0.66''	Infinity
15' 0''	10' 1.64''	29' 3''	9' 11.41''	30' 11.75''	9' 6.72''	35' 8.11''	9' 1.89''	43' 0.14''	8' 8.94''	55' 11.5''	8' 3.9''	84' 7.52''	7' 10.81''	199' 11.72''
12' 0''	8' 8.32''	19' 6.61''	8' 6.69''	20' 3.62''	8' 3.23''	22' 2.39''	7' 11.63''	24' 9.7''	7' 7.89''	28' 7.06''	7' 4.04''	34' 6.08''	7' 0.09''	44' 11.9''
11' 0''	8' 1.98''	16' 11.89''	8' 0.54''	17' 6.62''	7' 9.49''	18' 11.36''	7' 6.3''	20' 9.68''	7' 2.97''	23' 4.67''	6' 11.53''	27' 2.26''	6' 7.98''	33' 3.26''
10' 0''	7' 7.32''	14' 8.19''	7' 6.07''	15' 1.18''	7' 3.43''	16' 1.36''	7' 0.64''	17' 5.18''	6' 9.72''	19' 2.39''	6' 6.69''	21' 8.07''	6' 3.55''	25' 4.19''
9' 0''	7' 0.31''	12' 7.11''	6' 11.25''	12' 10.74''	6' 9''	13' 7.48''	6' 6.62''	14' 6.58''	6' 4.11''	15' 9.01''	6' 1.49''	17' 4.4''	5' 10.76''	19' 7.62''
8' 6''	6' 8.67''	11' 7.44''	6' 7.7''	11' 10.51''	6' 5.64''	12' 5.86''	6' 3.46''	13' 3.1''	6' 1.16''	14' 2.95''	5' 10.74''	15' 6.6''	5' 8.21''	17' 4.03''
8' 0''	6' 4.93''	10' 8.28''	6' 4.06''	10' 10.87''	6' 2.19''	11' 5.02''	6' 0.2''	12' 0.67''	5' 10.09''	12' 10.36''	5' 7.88''	13' 10.95''	5' 5.56''	15' 3.83''
7' 6''	6' 1.09''	9' 9.62''	6' 0.31''	9' 11.78''	5' 10.62''	10' 4.89''	5' 8.82''	10' 11.18''	5' 6.92''	11' 7.06''	5' 4.9''	12' 5.15''	5' 2.79''	13' 6.41''
7' 0''	5' 9.15''	8' 11.42''	5' 8.45''	9' 1.21''	5' 6.94''	9' 5.42''	5' 5.34''	9' 10.55''	5' 3.62''	10' 4.92''	5' 1.81''	11' 0.95''	4' 11.9''	11' 11.33''
6' 6''	5' 5.1''	8' 1.65''	5' 4.48''	8' 3.12''	5' 3.15''	8' 6.55''	5' 1.73''	8' 10.7''	5' 0.2''	9' 3.8''	4' 10.59''	9' 10.15''	4' 8.88''	10' 6.22''
6' 0''	5' 0.93''	7' 4.28''	5' 0.39''	7' 5.47''	4' 11.23''	7' 8.24''	4' 9.99''	7' 11.56''	4' 8.65''	8' 3.59''	4' 7.23''	8' 8.56''	4' 5.72''	9' 2.79''
5' 6''	4' 8.64''	6' 7.29''	4' 8.18''	6' 8.24''	4' 7.19''	6' 10.44''	4' 6.11''	7' 1.06''	4' 4.96''	7' 4.21''	4' 3.72''	7' 8.06''	4' 2.4''	8' 0.8''
5' 0''	4' 4.24''	5' 10.66''	4' 3.85''	5' 11.4''	4' 3.01''	6' 1.12''	4' 2.1''	6' 3.15''	4' 1.11''	6' 5.58''	4' 0.06''	6' 8.5''	3' 10.93''	7' 0.07''
4' 6''	3' 11.7''	5' 2.36''	3' 11.38''	5' 2.93''	3' 10.68''	5' 4.25''	1.167	5' 5.79''	3' 9.11''	5' 7.62''	3' 8.23''	5' 9.8''	3' 7.29''	6' 0.43''
4' 0''	3' 7.03''	4' 6.38''	3' 6.77''	4' 6.81''	3' 6.21''	4' 7.78''	3' 5.6''	4' 8.92''	3' 4.94''	4' 10.27''	3' 4.23''	4' 11.85''	3' 3.45''	5' 1.75''
3' 6''	3' 2.21''	3' 10.7''	3' 2.01''	3' 11''	3' 1.58''	3' 11.71''	3' 1.11''	4' 0.52''	3' 0.59''	4' 1.47''	3' 0.03''	4' 2.59''	2' 11.42''	4' 3.91''
3' 0''	2' 9.25''	3' 3.29''	2' 9.11''	3' 3.51''	2' 8.79''	3' 3.99''	2' 8.43''	3' 4.54''	2' 8.05''	3' 5.19''	2' 7.63''	3' 5.93''	2' 7.17''	3' 6.81''
2' 6''	2' 4.14''	2' 8.16''	2' 4.04''	2' 8.3''	2' 3.81''	2' 8.6''	2' 3.57''	2' 8.96''	2' 3.3''	2' 9.37''	2' 3.01''	2' 9.84''	2' 2.69''	2' 10.38''
2' 0''	1' 10.86''	2' 1.28''	1' 10.8''	2' 1.36''	1' 10.66''	2' 1.54''	1' 10.51''	2' 1.74''	1' 10.34''	2' 1.97''	1' 10.15''	2' 2.24''	1' 9.95''	2' 2.55''
1' 9''	1' 8.16''	1' 9.93''	1' 8.11''	1' 9.98''	1' 8.01''	1' 10.11''	1' 7.89''	1' 10.26''	1' 7.77''	1' 10.42''	1' 7.63''	1' 10.61''	1' 7.47''	1' 10.83''
1' 6''	1' 5.41''	1' 6.64''	1' 5.38''	1' 6.67''	1' 5.31''	1' 6.76''	1' 5.23''	1' 6.86''	1' 5.14''	1' 6.97''	1' 5.04''	1' 7.1''	1' 4.93''	1' 7.25''
1' 3''	1' 2.62''	1' 3.4''	1' 2.6''	1' 3.43''	1' 2.56''	1' 3.48''	1' 2.5''	1' 3.54''	1' 2.45''	1' 3.61''	1' 2.38''	1' 3.69''	1' 2.31''	1' 3.78''
1' 0''	0' 11.79''	1' 0.22''	0' 11.78''	1' 0.23''	0' 11.75''	1' 0.26''	0' 11.72''	1' 0.3''	0' 11.69''	1' 0.33''	0' 11.65''	1' 0.38''	0' 11.61''	1' 0.43''
0' 9''	0' 8.91''	0' 9.1''	0' 8.9''	0' 9.1''	0' 8.89''	0' 9.11''	0' 8.88''	0' 9.13''	0' 8.86''	0' 9.14''	0' 8.85''	0' 9.16''	0' 8.83''	0' 9.18''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
14' 5.31''	12' 10.76''	11' 6.27''	10' 3.58''	9' 2.47''	8' 2.82''	7' 4.43''	6' 7.17''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
14' 4.57''	Infinity	12' 10.05''	Infinity	11' 5.55''	Infinity	10' 2.85''	Infinity	9' 1.76''	Infinity	8' 2.09''	Infinity	7' 3.69''	Infinity	6' 6.44''	Infinity
12' 10.71''	Infinity	11' 7.71''	Infinity	10' 6.06''	Infinity	9' 5.65''	Infinity	8' 6.4''	Infinity	7' 8.21''	Infinity	6' 11''	Infinity	6' 2.69''	Infinity
11' 8.19''	Infinity	10' 7.82''	Infinity	9' 8.34''	Infinity	8' 9.73''	Infinity	7' 11.96''	Infinity	7' 2.99''	Infinity	6' 6.78''	Infinity	5' 11.29''	Infinity
10' 8.17''	Infinity	9' 9.79''	Infinity	9' 0.01''	Infinity	8' 2.84''	Infinity	7' 6.29''	Infinity	6' 10.34''	Infinity	6' 2.97''	Infinity	5' 8.18''	Infinity
9' 10.04''	Infinity	9' 1.22''	Infinity	8' 4.79''	Infinity	7' 8.8''	Infinity	7' 1.25''	Infinity	6' 6.15''	Infinity	5' 11.51''	Infinity	5' 5.33''	Infinity
9' 3.03''	Infinity	8' 7.21''	Infinity	7' 11.68''	Infinity	7' 4.47''	Infinity	6' 9.6''	Infinity	6' 3.1''	Infinity	5' 8.97''	Infinity	5' 3.22''	Infinity
8' 5.94''	Infinity	7' 11.34''	Infinity	7' 4.91''	Infinity	6' 10.68''	Infinity	6' 4.68''	Infinity	5' 10.94''	Infinity	5' 5.47''	Infinity	5' 0.29''	Infinity
7' 5.7''	Infinity	7' 0.59''	Infinity	6' 7.53''	Infinity	6' 2.55''	Infinity	5' 9.68''	Infinity	5' 4.94''	Infinity	5' 0.37''	Infinity	4' 7.97''	Infinity
6' 8.08''	68' 4.82''	6' 4.02''	165' 3.86''	5' 11.94''	Infinity	5' 7.88''	Infinity	5' 3.85''	Infinity	4' 11.88''	Infinity	4' 8''	Infinity	4' 4.23''	Infinity
6' 4.36''	44' 5.8''	6' 0.67''	71' 8.49''	5' 8.95''	231' 2.99''	5' 5.22''	Infinity	5' 1.51''	Infinity	4' 9.83''	Infinity	4' 6.22''	Infinity	4' 2.69''	Infinity
6' 0.32''	31' 4.03''	5' 9.02''	42' 8.37''	5' 5.67''	72' 2.54''	5' 2.3''	327' 8.54''	4' 10.91''	Infinity	4' 7.55''	Infinity	4' 4.22''	Infinity	4' 0.95''	Infinity
5' 7.93''	23' 0.25''	5' 5.03''	28' 6.86''	5' 2.07''	39' 2.83''	4' 11.06''	67' 9.17''	4' 8.03''	377' 7.08''	4' 4.99''	Infinity	4' 1.97''	Infinity	3' 10.99''	Infinity
5' 5.59''	19' 10.95''	5' 2.89''	23' 11.01''	5' 0.13''	30' 11.15''	4' 9.31''	46' 2.48''	4' 6.46''	104' 4.92''	4' 3.6''	Infinity	4' 0.74''	Infinity	3' 9.9''	Infinity
5' 3.15''	17' 3.44''	5' 0.65''	20' 2.56''	4' 10.08''	24' 11.75''	4' 7.46''	34' 0.35''	4' 4.8''	57' 6.76''	4' 2.11''	262' 9.81''	3' 11.42''	Infinity	3' 8.74''	Infinity
5' 0.58''	15' 0.48''	4' 10.29''	17' 2.35''	4' 7.93''	20' 6.11''	4' 5.5''	26' 2.44''	4' 3.03''	38' 1.93''	4' 0.53''	78' 8.76''	3' 10.01''	Infinity	3' 7.5''	Infinity
4' 9.9''	13' 1.14''	4' 7.81''	14' 8.27''	4' 5.65''	17' 0.32''	4' 3.42''	20' 9.01''	4' 1.15''	27' 6.6''	3' 10.83''	43' 8.76''	3' 8.5''	130' 0.42''	3' 6.15''	Infinity
4' 7.08''	11' 4.73''	4' 5.2''	12' 6.9''	4' 3.24''	14' 2.85''	4' 1.22''	16' 8.8''	3' 11.14''	20' 10.3''	3' 9.02''	28' 10.87''	3' 6.87''	51' 2.97''	3' 4.7''	407' 4.12''
4' 4.12''	9' 10.75''	4' 2.44''	10' 9.2''	4' 0.69''	11' 11.45''	3' 10.88''	13' 7.81''	3' 9''	16' 3.05''	3' 7.08''	20' 8.58''	3' 5.12''	30' 0.32''	3' 3.13''	61' 1.02''
4' 1.01''	8' 6.77''	3' 11.54''	9' 2.44''	3' 9.99''	10' 0.59''	3' 8.38''	11' 2.52''	3' 6.71''	12' 10.69''	3' 4.98''	15' 6.23''	3' 3.22''	20' 1.95''	3' 1.42''	30' 5.73''
3' 9.73''	7' 4.49''	3' 8.46''	7' 10.06''	3' 7.12''	8' 5.23''	3' 5.71''	9' 2.77''	3' 4.24''	10' 3.94''	3' 2.73''	11' 11.15''	3' 1.16''	14' 5.56''	2' 11.56''	19' 0.43''
3' 6.27''	6' 3.64''	3' 5.2''	6' 7.62''	3' 4.06''	7' 0.64''	3' 2.85''	7' 7.11''	3' 1.59''	8' 3.71''	3' 0.28''	9' 3.61''	2' 10.92''	10' 9.01''	2' 9.52''	13' 0.61''
3' 2.62''	5' 4.03''	3' 1.74''	5' 6.81''	3' 0.79''	5' 10.24''	2' 11.79''	6' 2.57''	2' 10.73''	6' 8.14''	2' 9.63''	7' 3.52''	2' 8.47''	8' 1.68''	2' 7.27''	9' 4.44''
2' 10.76''	4' 5.47''	2' 10.06''	4' 7.36''	2' 9.3''	4' 9.65''	2' 8.49''	5' 0.47''	2' 7.64''	5' 4''	2' 6.73''	5' 8.51''	2' 5.78''	6' 2.45''	2' 4.79''	6' 10.53''
2' 6.68''	3' 7.84''	2' 6.14''	3' 9.06''	2' 5.56''	3' 10.53''	2' 4.94''	4' 0.29''	2' 4.28''	4' 2.45''	2' 3.57''	4' 5.14''	2' 2.82''	4' 8.54''	2' 2.04''	5' 0.94''
2' 2.34''	2' 11.02''	2' 1.95''	2' 11.76''	2' 1.54''	3' 0.64''	2' 1.09''	3' 1.68''	2' 0.61''	3' 2.93''	2' 0.09''	3' 4.45''	1' 11.54''	3' 6.3''	1' 10.96''	3' 8.62''
1' 9.72''	2' 2.9''	1' 9.48''	2' 3.31''	1' 9.21''	2' 3.79''	1' 8.92''	2' 4.35''	1' 8.6''	2' 5.01''	1' 8.26''	2' 5.79''	1' 7.89''	2' 6.72''	1' 7.49''	2' 7.85''
1' 7.31''	1' 11.08''	1' 7.12''	1' 11.37''	1' 6.92''	1' 11.7''	1' 6.69''	2' 0.09''	1' 6.45''	2' 0.54''	1' 6.19''	2' 1.08''	1' 5.9''	2' 1.7''	1' 5.59''	2' 2.45''
1' 4.81''	1' 7.41''	1' 4.68''	1' 7.6''	1' 4.53''	1' 7.82''	1' 4.37''	1' 8.08''	1' 4.19''	1' 8.37''	1' 4''	1' 8.71''	1' 3.79''	1' 9.11''	1' 3.56''	1' 9.59''
1' 2.23''	1' 3.88''	1' 2.14''	1' 4''	1' 2.05''	1' 4.13''	1' 1.94''	1' 4.28''	1' 1.82''	1' 4.46''	1' 1.69''	1' 4.66''	1' 1.55''	1' 4.9''	1' 1.4''	1' 5.17''
0' 11.56''	1' 0.48''	0' 11.51''	1' 0.54''	0' 11.46''	1' 0.61''	0' 11.4''	1' 0.7''	0' 11.33''	1' 0.79''	0' 11.25''	1' 0.89''	0' 11.17''	1' 1.01''	0' 11.08''	1' 1.15''
0' 8.81''	0' 9.2''	0' 8.79''	0' 9.23''	0' 8.76''	0' 9.26''	0' 8.73''	0' 9.29''	0' 8.7''	0' 9.33''	0' 8.67''	0' 9.37''	0' 8.63''	0' 9.42''	0' 8.58''	0' 9.48''

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8	9	10	11	13	14	16	18
5' 10.91''	5' 3.58''	4' 9.01''	4' 3.18''	3' 9.98''	3' 5.34''	3' 1.24''	2' 9.54''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
5' 10.19''	Infinity	5' 2.84''	Infinity	4' 8.29''	Infinity	4' 2.46''	Infinity	3' 9.26''	Infinity	3' 4.63''	Infinity	3' 0.5''	Infinity	2' 8.83''	Infinity
5' 7.2''	Infinity	5' 0.46''	Infinity	4' 6.4''	Infinity	4' 0.95''	Infinity	3' 8.06''	Infinity	3' 3.68''	Infinity	2' 11.75''	Infinity	2' 8.23''	Infinity
5' 4.46''	Infinity	4' 10.25''	Infinity	4' 4.63''	Infinity	3' 11.53''	Infinity	3' 6.93''	Infinity	3' 2.77''	Infinity	2' 11.02''	Infinity	2' 7.65''	Infinity
5' 1.93''	Infinity	4' 8.2''	Infinity	4' 2.97''	Infinity	3' 10.19''	Infinity	3' 5.85''	Infinity	3' 1.9''	Infinity	2' 10.33''	Infinity	2' 7.09''	Infinity
4' 11.59''	Infinity	4' 6.29''	Infinity	4' 1.41''	Infinity	3' 8.93''	Infinity	3' 4.82''	Infinity	3' 1.07''	Infinity	2' 9.66''	Infinity	2' 6.56''	Infinity
4' 9.85''	Infinity	4' 4.85''	Infinity	4' 0.23''	Infinity	3' 7.96''	Infinity	3' 4.04''	Infinity	3' 0.43''	Infinity	2' 9.14''	Infinity	2' 6.14''	Infinity
4' 7.41''	Infinity	4' 2.83''	Infinity	3' 10.56''	Infinity	3' 6.59''	Infinity	3' 2.91''	Infinity	2' 11.52''	Infinity	2' 8.39''	Infinity	2' 5.53''	Infinity
4' 3.77''	Infinity	3' 11.79''	Infinity	3' 8.02''	Infinity	3' 4.48''	Infinity	3' 1.17''	Infinity	2' 10.09''	Infinity	2' 7.22''	Infinity	2' 4.57''	Infinity
4' 0.59''	Infinity	3' 9.09''	Infinity	3' 5.75''	Infinity	3' 2.58''	Infinity	2' 11.58''	Infinity	2' 8.76''	Infinity	2' 6.13''	Infinity	2' 3.67''	Infinity
3' 11.26''	Infinity	3' 7.96''	Infinity	3' 4.79''	Infinity	3' 1.77''	Infinity	2' 10.9''	Infinity	2' 8.2''	Infinity	2' 5.66''	Infinity	2' 3.28''	Infinity
3' 9.77''	Infinity	3' 6.67''	Infinity	3' 3.69''	Infinity	3' 0.84''	Infinity	2' 10.12''	Infinity	2' 7.54''	Infinity	2' 5.11''	Infinity	2' 2.83''	Infinity
3' 8.06''	Infinity	3' 5.2''	Infinity	3' 2.43''	Infinity	2' 11.76''	Infinity	2' 9.21''	Infinity	2' 6.77''	Infinity	2' 4.47''	Infinity	2' 2.29''	Infinity
3' 7.11''	Infinity	3' 4.38''	Infinity	3' 1.73''	Infinity	2' 11.16''	Infinity	2' 8.7''	Infinity	2' 6.34''	Infinity	2' 4.1''	Infinity	2' 1.99''	Infinity
3' 6.1''	Infinity	3' 3.5''	Infinity	3' 0.96''	Infinity	2' 10.51''	Infinity	2' 8.14''	Infinity	2' 5.87''	Infinity	2' 3.7''	Infinity	2' 1.65''	Infinity
3' 5''	Infinity	3' 2.54''	Infinity	3' 0.14''	Infinity	2' 9.79''	Infinity	2' 7.53''	Infinity	2' 5.35''	Infinity	2' 3.26''	Infinity	2' 1.28''	Infinity
3' 3.82''	Infinity	3' 1.51''	Infinity	2' 11.23''	Infinity	2' 9.01''	Infinity	2' 6.86''	Infinity	2' 4.77''	Infinity	2' 2.78''	Infinity	2' 0.87''	Infinity
3' 2.53''	Infinity	3' 0.38''	Infinity	2' 10.24''	Infinity	2' 8.15''	Infinity	2' 6.12''	Infinity	2' 4.14''	Infinity	2' 2.24''	Infinity	2' 0.42''	Infinity
3' 1.13''	Infinity	2' 11.14''	Infinity	2' 9.16''	Infinity	2' 7.21''	Infinity	2' 5.3''	Infinity	2' 3.44''	Infinity	2' 1.64''	Infinity	1' 11.91''	Infinity
2' 11.61''	72' 4.9''	2' 9.78''	Infinity	2' 7.96''	Infinity	2' 6.16''	Infinity	2' 4.38''	Infinity	2' 2.65''	Infinity	2' 0.96''	Infinity	1' 11.33''	Infinity
2' 9.93''	29' 7.74''	2' 8.29''	80' 5.5''	2' 6.63''	Infinity	2' 4.99''	Infinity	2' 3.36''	Infinity	2' 1.76''	Infinity	2' 0.19''	Infinity	1' 10.67''	Infinity
2' 8.08''	17' 2.65''	2' 6.63''	26' 11.95''	2' 5.15''	75' 9.83''	2' 3.68''	Infinity	2' 2.2''	Infinity	2' 0.75''	Infinity	1' 11.31''	Infinity	1' 9.91''	Infinity
2' 6.04''	11' 3.64''	2' 4.78''	14' 9.02''	2' 3.49''	22' 6.71''	2' 2.19''	56' 6.79''	2' 0.89''	Infinity	1' 11.59''	Infinity	1' 10.3''	Infinity	1' 9.03''	Infinity
2' 3.76''	7' 10.1''	2' 2.7''	9' 3.86''	2' 1.61''	11' 10.31''	2' 0.5''	17' 2.03''	1' 11.38''	34' 11.86''	1' 10.25''	Infinity	1' 9.12''	Infinity	1' 7.99''	Infinity
2' 1.21''	5' 6.84''	2' 0.36''	6' 3.06''	1' 11.47''	7' 3.23''	1' 10.56''	8' 10.91''	1' 9.62''	11' 11.81''	1' 8.68''	19' 8.98''	1' 7.72''	75' 9.87''	1' 6.76''	Infinity
1' 10.34''	3' 11.57''	1' 9.69''	4' 3.42''	1' 9''	4' 8.61''	1' 8.3''	5' 3.94''	1' 7.56''	6' 2.97''	1' 6.81''	7' 9.3''	1' 6.05''	10' 9.4''	1' 5.27''	19' 4.08''
1' 7.07''	2' 9.23''	1' 6.62''	2' 10.95''	1' 6.14''	3' 1.12''	1' 5.64''	3' 3.93''	1' 5.11''	3' 7.7''	1' 4.57''	4' 0.95''	1' 4''	4' 8.73''	1' 3.42''	5' 9.32''
1' 5.26''	2' 3.36''	1' 4.91''	2' 4.45''	1' 4.53''	2' 5.81''	1' 4.13''	2' 7.51''	1' 3.7''	2' 9.7''	1' 3.26''	3' 0.58''	1' 2.8''	3' 4.54''	1' 2.32''	3' 10.26''
1' 3.32''	1' 10.14''	1' 3.05''	1' 10.81''	1' 2.77''	1' 11.62''	1' 2.47''	2' 0.61''	1' 2.14''	2' 1.84''	1' 1.8''	2' 3.39''	1' 1.44''	2' 5.4''	1' 1.07''	2' 8.1''
1' 1.23''	1' 5.49''	1' 1.05''	1' 5.87''	1' 0.85''	1' 6.32''	1' 0.64''	1' 6.85''	1' 0.41''	1' 7.5''	1' 0.17''	1' 8.29''	0' 11.91''	1' 9.27''	0' 11.64''	1' 10.51''
0' 10.98''	1' 1.32''	0' 10.87''	1' 1.5''	0' 10.75''	1' 1.72''	0' 10.62''	1' 1.98''	0' 10.48''	1' 2.28''	0' 10.32''	1' 2.64''	0' 10.16''	1' 3.07''	0' 9.98''	1' 3.6''
0' 8.54''	0' 9.54''	0' 8.49''	0' 9.62''	0' 8.43''	0' 9.7''	0' 8.37''	0' 9.8''	0' 8.3''	0' 9.91''	0' 8.22''	0' 10.04''	0' 8.14''	0' 10.19''	0' 8.05''	0' 10.37''

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20	22
2' 6.28''	2' 3.36''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
2' 5.56''	Infinity	2' 2.64''	Infinity
2' 5.08''	Infinity	2' 2.26''	Infinity
2' 4.62''	Infinity	2' 1.9''	Infinity
2' 4.17''	Infinity	2' 1.54''	Infinity
2' 3.74''	Infinity	2' 1.19''	Infinity
2' 3.4''	Infinity	2' 0.92''	Infinity
2' 2.91''	Infinity	2' 0.53''	Infinity
2' 2.13''	Infinity	1' 11.89''	Infinity
2' 1.4''	Infinity	1' 11.29''	Infinity
2' 1.08''	Infinity	1' 11.03''	Infinity
2' 0.7''	Infinity	1' 10.72''	Infinity
2' 0.26''	Infinity	1' 10.35''	Infinity
2'	Infinity	1' 10.14''	Infinity
1' 11.72''	Infinity	1' 9.91''	Infinity
1' 11.41''	Infinity	1' 9.65''	Infinity
1' 11.07''	Infinity	1' 9.36''	Infinity
1' 10.68''	Infinity	1' 9.04''	Infinity
1' 10.25''	Infinity	1' 8.68''	Infinity
1' 9.76''	Infinity	1' 8.26''	Infinity
1' 9.2''	Infinity	1' 7.79''	Infinity
1' 8.55''	Infinity	1' 7.23''	Infinity
1' 7.79''	Infinity	1' 6.58''	Infinity
1' 6.89''	Infinity	1' 5.81''	Infinity
1' 5.81''	Infinity	1' 4.87''	Infinity
1' 4.48''	Infinity	1' 3.7''	Infinity
1' 2.82''	7' 8.93''	1' 2.22''	12' 8.64''
1' 1.82''	4' 7.17''	1' 1.31''	5' 10.82''
1' 0.67''	2' 11.86''	1' 0.27''	3' 5.42''
0' 11.35''	2' 0.12''	0' 11.05''	2' 2.28''
0' 9.8''	1' 4.24''	0' 9.6''	1' 5.05''
0' 7.95''	0' 10.58''	0' 7.85''	0' 10.83''

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Focal Length 21 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	40' 11.22''	38' 8.33''	34' 6.02''	30' 9.21''	27' 5.25''	24' 5.7''	21' 10.01''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	40' 10.35''	Infinity	38' 7.48''	Infinity	34' 5.17''	Infinity	30' 8.35''	Infinity	27' 4.42''	Infinity	24' 4.84''	Infinity	21' 9.14''	Infinity
120' 0''	30' 6.84''	Infinity	29' 3.64''	Infinity	26' 10.01''	Infinity	24' 6.21''	Infinity	22' 4.26''	Infinity	20' 4.12''	Infinity	18' 5.77''	Infinity
60' 0''	24' 5.02''	Infinity	23' 7.28''	Infinity	21' 11.8''	Infinity	20' 4.92''	Infinity	18' 10.72''	Infinity	17' 5.3''	Infinity	16' 0.71''	Infinity
40' 0''	20' 3.94''	1733' 4.54''	19' 9.18''	Infinity	18' 7.41''	Infinity	17' 5.77''	Infinity	16' 4.33''	Infinity	15' 3.17''	Infinity	14' 2.39''	Infinity
30' 0''	17' 4.94''	111' 0.7''	16' 11.98''	131' 11.2''	16' 1.75''	226' 10.37''	15' 3.44''	1185' 11.58''	14' 5.12''	Infinity	13' 6.84''	Infinity	12' 8.69''	Infinity
25' 0''	15' 7.42''	63' 6.09''	15' 3.43''	69' 9.65''	14' 7.15''	89' 6.89''	13' 10.7''	131' 4.82''	13' 2.16''	276' 6.99''	12' 5.56''	Infinity	11' 8.98''	Infinity
20' 0''	13' 6.35''	38' 8.06''	13' 3.36''	40' 10.9''	12' 9.09''	46' 11.44''	12' 2.63''	56' 3.65''	11' 8.01''	72' 6.54''	11' 1.26''	107' 4.36''	10' 6.44''	233' 3.12''
15' 0''	11' 0.75''	23' 4.95''	10' 10.76''	24' 2.49''	10' 6.54''	26' 2.25''	10' 2.13''	28' 10.05''	9' 9.53''	32' 6.47''	9' 4.78''	38' 0.34''	8' 11.88''	46' 11.16''
12' 0''	9' 4.27''	16' 9.46''	9' 2.86''	17' 2.28''	8' 11.84''	18' 1.89''	8' 8.64''	19' 4.59''	8' 5.27''	20' 11.69''	8' 1.75''	23' 1.28''	7' 10.08''	26' 1.08''
11' 0''	8' 8.92''	14' 10.5''	8' 7.69''	15' 2.26''	8' 5.05''	15' 11.23''	8' 2.24''	16' 10.43''	7' 11.28''	18' 0.68''	7' 8.16''	19' 7.31''	7' 4.91''	21' 8.5''
10' 0''	8' 1.27''	13' 1.03''	8' 0.22''	13' 3.92''	7' 9.95''	13' 10.75''	7' 7.53''	14' 7.16''	7' 4.96''	15' 5.69''	7' 2.25''	16' 7.15''	6' 11.4''	18' 0.81''
9' 0''	7' 5.32''	11' 4.91''	7' 4.43''	11' 7.09''	7' 2.52''	12' 0.2''	7' 0.47''	12' 6.41''	6' 10.29''	13' 2.06''	6' 7.98''	13' 11.65''	6' 5.54''	14' 11.93''
8' 6''	7' 1.22''	10' 7.31''	7' 0.41''	10' 9.18''	6' 10.67''	11' 1.57''	6' 8.81''	11' 6.86''	6' 6.82''	12' 1.34''	6' 4.7''	12' 9.39''	6' 2.46''	13' 7.56''
8' 0''	6' 9.03''	9' 10''	6' 8.3''	9' 11.61''	6' 6.74''	10' 3.34''	6' 5.05''	10' 7.83''	6' 3.24''	11' 1.28''	6' 1.32''	11' 7.98''	5' 11.27''	12' 4.38''
7' 6''	6' 4.76''	9' 0.97''	6' 4.11''	9' 2.33''	6' 2.7''	9' 5.49''	6' 1.19''	9' 9.26''	5' 11.57''	10' 1.81''	5' 9.83''	10' 7.37''	5' 7.98''	11' 2.26''
7' 0''	6' 0.4''	8' 4.21''	5' 11.82''	8' 5.36''	5' 10.57''	8' 8''	5' 9.23''	8' 11.15''	5' 7.78''	9' 2.91''	5' 6.22''	9' 7.48''	5' 4.56''	10' 1.09''
6' 6''	5' 7.94''	7' 7.7''	5' 7.44''	7' 8.66''	5' 6.34''	7' 10.85''	5' 5.16''	8' 1.44''	5' 3.88''	8' 4.53''	5' 2.5''	8' 8.25''	5' 1.03''	9' 0.77''
6' 0''	5' 3.39''	6' 11.44''	5' 2.95''	7' 0.22''	5' 2''	7' 2.02''	5' 0.97''	7' 4.13''	4' 11.86''	7' 6.64''	4' 10.66''	7' 9.63''	4' 9.36''	8' 1.24''
5' 6''	4' 10.74''	6' 3.41''	4' 10.37''	6' 4.04''	4' 9.56''	6' 5.49''	4' 8.67''	6' 7.19''	4' 7.71''	6' 9.19''	4' 6.68''	6' 11.57''	4' 5.56''	7' 2.41''
5' 0''	4' 5.99''	5' 7.6''	4' 5.67''	5' 8.11''	4' 4.99''	5' 9.26''	4' 4.25''	5' 10.6''	4' 3.44''	6' 0.17''	4' 2.56''	6' 2.02''	4' 1.62''	6' 4.22''
4' 6''	4' 1.13''	5' 0.01''	4' 0.87''	5' 0.4''	4' 0.31''	5' 1.29''	1.212	5' 2.33''	3' 11.03''	5' 3.54''	3' 10.31''	5' 4.96''	3' 9.52''	5' 6.63''
4' 0''	3' 8.16''	4' 4.62''	3' 7.95''	4' 4.92''	3' 7.51''	4' 5.59''	3' 7.02''	4' 6.37''	3' 6.48''	4' 7.28''	3' 5.9''	4' 8.33''	3' 5.26''	4' 9.57''
3' 6''	3' 3.08''	3' 9.43''	3' 2.92''	3' 9.65''	3' 2.57''	3' 10.14''	3' 2.2''	3' 10.71''	3' 1.78''	3' 11.36''	3' 1.32''	4' 0.12''	3' 0.83''	4' 1''
3' 0''	2' 9.88''	3' 2.43''	2' 9.76''	3' 2.58''	2' 9.51''	3' 2.92''	2' 9.23''	3' 3.32''	2' 8.92''	3' 3.77''	2' 8.58''	3' 4.29''	2' 8.21''	3' 4.89''
2' 6''	2' 4.56''	2' 7.61''	2' 4.48''	2' 7.71''	2' 4.3''	2' 7.93''	2' 4.11''	2' 8.19''	2' 3.9''	2' 8.48''	2' 3.66''	2' 8.81''	2' 3.4''	2' 9.2''
2' 0''	1' 11.11''	2' 0.97''	1' 11.06''	2' 1.02''	1' 10.95''	2' 1.16''	1' 10.83''	2' 1.31''	1' 10.7''	2' 1.48''	1' 10.55''	2' 1.67''	1' 10.39''	2' 1.9''
1' 9''	1' 8.34''	1' 9.71''	1' 8.31''	1' 9.75''	1' 8.22''	1' 9.85''	1' 8.13''	1' 9.96''	1' 8.03''	1' 10.08''	1' 7.92''	1' 10.22''	1' 7.8''	1' 10.38''
1' 6''	1' 5.54''	1' 6.49''	1' 5.51''	1' 6.52''	1' 5.45''	1' 6.59''	1' 5.39''	1' 6.66''	1' 5.32''	1' 6.75''	1' 5.24''	1' 6.84''	1' 5.15''	1' 6.95''
1' 3''	1' 2.7''	1' 3.31''	1' 2.68''	1' 3.33''	1' 2.65''	1' 3.38''	1' 2.6''	1' 3.42''	1' 2.56''	1' 3.48''	1' 2.5''	1' 3.54''	1' 2.45''	1' 3.61''
1' 0''	0' 11.83''	1' 0.18''	0' 11.82''	1' 0.19''	0' 11.8''	1' 0.21''	0' 11.77''	1' 0.24''	0' 11.75''	1' 0.27''	0' 11.71''	1' 0.3''	0' 11.68''	1' 0.34''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
19' 5.74''	17' 4.58''	15' 6.18''	13' 10.22''	12' 4.43''	11' 0.6''	9' 10.46''	8' 9.91''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
19' 4.91''	Infinity	17' 3.75''	Infinity	15' 5.34''	Infinity	13' 9.37''	Infinity	12' 3.58''	Infinity	10' 11.74''	Infinity	9' 9.62''	Infinity	8' 9.04''	Infinity
16' 9.14''	Infinity	15' 2.16''	Infinity	13' 8.76''	Infinity	12' 4.84''	Infinity	11' 2.33''	Infinity	10' 1.11''	Infinity	9' 1.12''	Infinity	8' 2.24''	Infinity
14' 9''	Infinity	13' 6.18''	Infinity	12' 4.29''	Infinity	11' 3.32''	Infinity	10' 3.25''	Infinity	9' 4.08''	Infinity	8' 5.76''	Infinity	7' 8.27''	Infinity
13' 2.03''	Infinity	12' 2.15''	Infinity	11' 2.81''	Infinity	10' 4.04''	Infinity	9' 5.86''	Infinity	8' 8.29''	Infinity	7' 11.33''	Infinity	7' 2.99''	Infinity
11' 10.73''	Infinity	11' 1.01''	Infinity	10' 3.58''	Infinity	9' 6.5''	Infinity	8' 9.81''	Infinity	8' 1.52''	Infinity	7' 5.67''	Infinity	6' 10.27''	Infinity
11' 0.47''	Infinity	10' 4.08''	Infinity	9' 7.86''	Infinity	8' 11.87''	Infinity	8' 4.14''	Infinity	7' 8.7''	Infinity	7' 1.6''	Infinity	6' 6.85''	Infinity
9' 11.58''	Infinity	9' 4.73''	Infinity	8' 9.93''	Infinity	8' 3.24''	Infinity	7' 8.68''	Infinity	7' 2.31''	Infinity	6' 8.15''	Infinity	6' 2.23''	Infinity
8' 6.89''	63' 8.42''	8' 1.81''	106' 6.47''	7' 8.69''	438' 0.72''	7' 3.56''	Infinity	6' 10.46''	Infinity	6' 5.41''	Infinity	6' 0.45''	Infinity	5' 7.61''	Infinity
7' 6.28''	30' 6.28''	7' 2.38''	37' 8.83''	6' 10.39''	51' 4.9''	6' 6.34''	86' 9.82''	6' 2.26''	387' 0.44''	5' 10.17''	Infinity	5' 6.1''	Infinity	5' 2.08''	Infinity
7' 1.52''	24' 8.16''	6' 10.02''	29' 2.08''	6' 6.43''	36' 8.27''	6' 2.77''	51' 8.14''	5' 11.05''	95' 8.54''	5' 7.31''	Infinity	5' 3.57''	Infinity	4' 11.85''	Infinity
6' 8.43''	20' 0.84''	6' 5.34''	22' 11.16''	6' 2.15''	27' 3.69''	5' 10.88''	34' 9.41''	5' 7.55''	50' 3.48''	5' 4.17''	101' 0.3''	5' 0.78''	Infinity	4' 9.38''	Infinity
6' 2.97''	16' 4.08''	6' 0.3''	18' 2.11''	5' 9.52''	20' 9.67''	5' 6.65''	24' 10.26''	5' 3.71''	31' 9.96''	5' 0.71''	46' 6.55''	4' 9.68''	97' 2.31''	4' 6.63''	Infinity
6' 0.1''	14' 8.76''	5' 9.63''	16' 2.4''	5' 7.05''	18' 3''	5' 4.39''	21' 3.38''	5' 1.64''	26' 2.13''	4' 10.84''	35' 4.05''	4' 8''	58' 4.18''	4' 5.13''	219' 7.22''
5' 9.11''	13' 3.12''	5' 6.85''	14' 5.22''	5' 4.48''	16' 0.41''	5' 2.02''	18' 3.82''	4' 11.48''	21' 9.83''	4' 8.87''	27' 9.66''	4' 6.22''	40' 3.02''	4' 3.53''	81' 3.32''
5' 6.02''	11' 10.95''	5' 3.95''	12' 10.18''	5' 1.79''	14' 1.14''	4' 11.54''	15' 9.87''	4' 9.2''	18' 4.27''	4' 6.8''	22' 4.75''	4' 4.34''	29' 9.4''	4' 1.84''	47' 5.1''
5' 2.8''	10' 8.08''	5' 0.94''	11' 4.98''	4' 10.98''	12' 4.6''	4' 8.93''	13' 8.28''	4' 6.8''	15' 6.45''	4' 4.6''	18' 3.87''	4' 2.34''	22' 11.52''	4' 0.03''	32' 1.58''
4' 11.46''	9' 6.35''	4' 9.8''	10' 1.35''	4' 8.04''	10' 10.34''	4' 6.2''	11' 10.18''	4' 4.27''	13' 2.39''	4' 2.28''	15' 1.73''	4' 0.22''	18' 1.92''	3' 10.11''	23' 5.03''
4' 7.98''	8' 5.64''	4' 6.52''	8' 11.1''	4' 4.96''	9' 5.99''	4' 3.32''	10' 2.89''	4' 1.6''	11' 2.74''	3' 11.81''	12' 7.15''	3' 9.96''	14' 7.19''	3' 8.05''	17' 9.5''
4' 4.37''	7' 5.84''	4' 3.09''	7' 10.05''	4' 1.73''	8' 3.28''	4' 0.29''	8' 9.91''	3' 10.78''	9' 6.53''	3' 9.19''	10' 6.08''	3' 7.54''	11' 10.24''	3' 5.84''	13' 10.28''
4' 0.6''	6' 6.86''	3' 11.5''	6' 10.05''	3' 10.34''	7' 1.97''	3' 9.09''	7' 6.85''	3' 7.78''	8' 1.06''	3' 6.4''	8' 9.15''	3' 4.96''	9' 8.05''	3' 3.46''	10' 11.42''
3' 8.67''	5' 8.61''	3' 7.75''	5' 10.99''	3' 6.77''	6' 1.87''	3' 5.72''	6' 5.4''	3' 4.61''	6' 9.81''	3' 3.43''	7' 3.42''	3' 2.19''	7' 10.74''	3' 0.9''	8' 8.61''
3' 4.57''	4' 11.02''	3' 3.82''	5' 0.75''	3' 3.01''	5' 2.81''	3' 2.15''	5' 5.32''	3' 1.23''	5' 8.38''	3' 0.25''	6' 0.2''	2' 11.21''	6' 5.05''	2' 10.12''	6' 11.36''
3' 0.28''	4' 2.03''	2' 11.69''	4' 3.25''	2' 11.06''	4' 4.68''	2' 10.37''	4' 6.4''	2' 9.63''	4' 8.47''	2' 8.84''	4' 11''	2' 8.01''	5' 2.14''	2' 7.12''	5' 6.11''
2' 7.8''	3' 5.59''	2' 7.36''	3' 6.4''	2' 6.88''	3' 7.36''	2' 6.36''	3' 8.49''	2' 5.79''	3' 9.83''	2' 5.19''	3' 11.44''	2' 4.54''	4' 1.4''	2' 3.85''	4' 3.81''
2' 3.12''	2' 9.64''	2' 2.8''	2' 10.16''	2' 2.46''	2' 10.75''	2' 2.09''	2' 11.45''	2' 1.69''	3' 0.27''	2' 1.25''	3' 1.24''	2' 0.78''	3' 2.39''	2' 0.27''	3' 3.78''
1' 10.2''	2' 2.15''	1' 10.01''	2' 2.44''	1' 9.79''	2' 2.78''	1' 9.55''	2' 3.17''	1' 9.28''	2' 3.63''	1' 9''	2' 4.16''	1' 8.68''	2' 4.78''	1' 8.35''	2' 5.51''
1' 7.66''	1' 10.56''	1' 7.51''	1' 10.77''	1' 7.34''	1' 11.01''	1' 7.16''	1' 11.29''	1' 6.96''	1' 11.61''	1' 6.74''	1' 11.98''	1' 6.5''	2' 0.41''	1' 6.24''	2' 0.92''
1' 5.05''	1' 7.08''	1' 4.95''	1' 7.22''	1' 4.83''	1' 7.38''	1' 4.69''	1' 7.57''	1' 4.55''	1' 7.78''	1' 4.39''	1' 8.03''	1' 4.21''	1' 8.31''	1' 4.02''	1' 8.64''
1' 2.38''	1' 3.68''	1' 2.31''	1' 3.77''	1' 2.23''	1' 3.88''	1' 2.14''	1' 3.99''	1' 2.05''	1' 4.12''	1' 1.94''	1' 4.27''	1' 1.82''	1' 4.45''	1' 1.69''	1' 4.65''
0' 11.64''	1' 0.38''	0' 11.6''	1' 0.43''	0' 11.56''	1' 0.49''	0' 11.5''	1' 0.55''	0' 11.45''	1' 0.63''	0' 11.38''	1' 0.71''	0' 11.31''	1' 0.8''	0' 11.23''	1' 0.91''

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8	9	10	11	13	14	16	18
7' 10.69''	7' 0.69''	6' 3.79''	5' 7.87''	5' 0.83''	4' 6.53''	4' 0.94''	3' 7.94''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
7' 9.83''	Infinity	6' 11.85''	Infinity	6' 2.96''	Infinity	5' 7.03''	Infinity	4' 11.97''	Infinity	4' 5.68''	Infinity	4' 0.08''	Infinity	3' 7.09''	Infinity
7' 4.41''	Infinity	6' 7.52''	Infinity	5' 11.5''	Infinity	5' 4.28''	Infinity	4' 9.78''	Infinity	4' 3.94''	Infinity	3' 10.69''	Infinity	3' 5.99''	Infinity
6' 11.57''	Infinity	6' 3.61''	Infinity	5' 8.35''	Infinity	5' 1.75''	Infinity	4' 7.75''	Infinity	4' 2.31''	Infinity	3' 9.39''	Infinity	3' 4.94''	Infinity
6' 7.24''	Infinity	6' 0.07''	Infinity	5' 5.47''	Infinity	4' 11.4''	Infinity	4' 5.85''	Infinity	4' 0.77''	Infinity	3' 8.15''	Infinity	3' 3.95''	Infinity
6' 3.33''	Infinity	5' 8.85''	Infinity	5' 2.82''	Infinity	4' 9.23''	Infinity	4' 4.07''	Infinity	3' 11.33''	Infinity	3' 6.98''	Infinity	3' 3''	Infinity
6' 0.47''	Infinity	5' 6.47''	Infinity	5' 0.85''	Infinity	4' 7.6''	Infinity	4' 2.74''	Infinity	3' 10.23''	Infinity	3' 6.08''	Infinity	3' 2.27''	Infinity
5' 8.57''	Infinity	5' 3.19''	Infinity	4' 10.11''	Infinity	4' 5.33''	Infinity	4' 0.85''	Infinity	3' 8.68''	Infinity	3' 4.81''	Infinity	3' 1.23''	Infinity
5' 2.92''	Infinity	4' 10.39''	Infinity	4' 6.06''	Infinity	4' 1.93''	Infinity	3' 10.01''	Infinity	3' 6.32''	Infinity	3' 2.85''	Infinity	2' 11.61''	Infinity
4' 10.13''	Infinity	4' 6.27''	Infinity	4' 2.53''	Infinity	3' 10.93''	Infinity	3' 7.48''	Infinity	3' 4.19''	Infinity	3' 1.07''	Infinity	2' 10.13''	Infinity
4' 8.18''	Infinity	4' 4.58''	Infinity	4' 1.08''	Infinity	3' 9.68''	Infinity	3' 6.41''	Infinity	3' 3.29''	Infinity	3' 0.31''	Infinity	2' 9.5''	Infinity
4' 6.01''	Infinity	4' 2.69''	Infinity	3' 11.44''	Infinity	3' 8.27''	Infinity	3' 5.21''	Infinity	3' 2.26''	Infinity	2' 11.44''	Infinity	2' 8.76''	Infinity
4' 3.58''	Infinity	4' 0.56''	Infinity	3' 9.58''	Infinity	3' 6.66''	Infinity	3' 3.82''	Infinity	3' 1.08''	Infinity	2' 10.44''	Infinity	2' 7.91''	Infinity
4' 2.25''	Infinity	3' 11.38''	Infinity	3' 8.55''	Infinity	3' 5.77''	Infinity	3' 3.05''	Infinity	3' 0.41''	Infinity	2' 9.87''	Infinity	2' 7.43''	Infinity
4' 0.83''	Infinity	3' 10.13''	Infinity	3' 7.45''	Infinity	3' 4.8''	Infinity	3' 2.21''	Infinity	2' 11.69''	Infinity	2' 9.25''	Infinity	2' 6.91''	Infinity
3' 11.31''	142' 11.7''	3' 8.78''	Infinity	3' 6.26''	Infinity	3' 3.76''	Infinity	3' 1.31''	Infinity	2' 10.91''	Infinity	2' 8.58''	Infinity	2' 6.34''	Infinity
3' 9.7''	58' 5.94''	3' 7.34''	Infinity	3' 4.98''	Infinity	3' 2.64''	Infinity	3' 0.33''	Infinity	2' 10.06''	Infinity	2' 7.85''	Infinity	2' 5.71''	Infinity
3' 7.96''	34' 9.41''	3' 5.78''	76' 11.23''	3' 3.6''	Infinity	3' 1.42''	Infinity	2' 11.26''	Infinity	2' 9.13''	Infinity	2' 7.04''	Infinity	2' 5.01''	Infinity
3' 6.09''	23' 7.4''	3' 4.11''	37' 5.6''	3' 2.1''	111' 0.33''	3' 0.09''	Infinity	2' 10.08''	Infinity	2' 8.1''	Infinity	2' 6.15''	Infinity	2' 4.24''	Infinity
3' 4.08''	17' 1.46''	3' 2.29''	23' 3.92''	3' 0.47''	39' 5.98''	2' 10.63''	182' 8.82''	2' 8.8''	Infinity	2' 6.97''	Infinity	2' 5.16''	Infinity	2' 3.38''	Infinity
3' 1.91''	12' 10.49''	3' 0.31''	16' 0.68''	2' 10.68''	22' 3.35''	2' 9.03''	39' 7.84''	2' 7.37''	337' 5.42''	2' 5.71''	Infinity	2' 4.05''	Infinity	2' 2.42''	Infinity
2' 11.55''	9' 10.55''	2' 10.16''	11' 7.55''	2' 8.73''	14' 6.44''	2' 7.27''	20' 3.2''	2' 5.79''	36' 6.99''	2' 4.3''	Infinity	2' 2.81''	Infinity	2' 1.33''	Infinity
2' 8.98''	7' 7.85''	2' 7.8''	8' 7.78''	2' 6.57''	10' 1.63''	2' 5.31''	12' 6.97''	2' 4.02''	17' 3.67''	2' 2.71''	30' 1.4''	2' 1.4''	187' 6.99''	2' 0.08''	Infinity
2' 6.18''	5' 11.24''	2' 5.2''	6' 6.07''	2' 4.18''	7' 3.56''	2' 3.12''	8' 5.51''	2' 2.03''	10' 3.83''	2' 0.92''	13' 8.9''	1' 11.79''	22' 0.28''	1' 10.65''	69' 8.93''
2' 3.11''	4' 6.83''	2' 2.33''	4' 10.7''	2' 1.52''	5' 3.77''	2' 0.67''	5' 10.67''	1' 11.78''	6' 8.53''	1' 10.87''	7' 11.64''	1' 9.93''	10' 1.49''	1' 8.98''	14' 7.24''
1' 11.73''	3' 5.48''	1' 11.15''	3' 7.57''	1' 10.54''	3' 10.21''	1' 9.89''	4' 1.6''	1' 9.21''	4' 6.08''	1' 8.51''	5' 0.26''	1' 7.77''	5' 9.21''	1' 7.02''	6' 11.26''
1' 7.98''	2' 6.38''	1' 7.59''	2' 7.44''	1' 7.17''	2' 8.71''	1' 6.72''	2' 10.28''	1' 6.25''	3' 0.26''	1' 5.75''	3' 2.78''	1' 5.22''	3' 6.1''	1' 4.67''	3' 10.64''
1' 5.96''	2' 1.52''	1' 5.65''	2' 2.22''	1' 5.32''	2' 3.07''	1' 4.97''	2' 4.1''	1' 4.59''	2' 5.36''	1' 4.19''	2' 6.93''	1' 3.77''	2' 8.92''	1' 3.32''	2' 11.51''
1' 3.82''	1' 9.03''	1' 3.59''	1' 9.48''	1' 3.34''	1' 10.02''	1' 3.08''	1' 10.66''	1' 2.79''	1' 11.43''	1' 2.49''	2' 0.36''	1' 2.16''	2' 1.51''	1' 1.82''	2' 2.96''
1' 1.55''	1' 4.88''	1' 1.39''	1' 5.15''	1' 1.23''	1' 5.46''	1' 1.04''	1' 5.83''	1' 0.84''	1' 6.27''	1' 0.63''	1' 6.79''	1' 0.4''	1' 7.42''	1' 0.15''	1' 8.18''
0' 11.15''	1' 1.03''	0' 11.06''	1' 1.17''	0' 10.95''	1' 1.34''	0' 10.84''	1' 1.53''	0' 10.72''	1' 1.75''	0' 10.58''	1' 2.01''	0' 10.44''	1' 2.31''	0' 10.28''	1' 2.67''

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20	22
3' 3.49''	2' 11.51''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
3' 2.64''	Infinity	2' 10.68''	Infinity
3' 1.77''	Infinity	2' 9.99''	Infinity
3' 0.93''	Infinity	2' 9.32''	Infinity
3' 0.13''	Infinity	2' 8.68''	Infinity
2' 11.37''	Infinity	2' 8.06''	Infinity
2' 10.78''	Infinity	2' 7.58''	Infinity
2' 9.93''	Infinity	2' 6.89''	Infinity
2' 8.6''	Infinity	2' 5.81''	Infinity
2' 7.37''	Infinity	2' 4.79''	Infinity
2' 6.84''	Infinity	2' 4.36''	Infinity
2' 6.23''	Infinity	2' 3.85''	Infinity
2' 5.52''	Infinity	2' 3.25''	Infinity
2' 5.11''	Infinity	2' 2.91''	Infinity
2' 4.67''	Infinity	2' 2.54''	Infinity
2' 4.18''	Infinity	2' 2.13''	Infinity
2' 3.65''	Infinity	2' 1.67''	Infinity
2' 3.05''	Infinity	2' 1.17''	Infinity
2' 2.39''	Infinity	2' 0.61''	Infinity
2' 1.65''	Infinity	1' 11.97''	Infinity
2' 0.81''	Infinity	1' 11.25''	Infinity
1' 11.86''	Infinity	1' 10.43''	Infinity
1' 10.77''	Infinity	1' 9.47''	Infinity
1' 9.5''	Infinity	1' 8.36''	Infinity
1' 8.01''	29' 4.65''	1' 7.04''	Infinity
1' 6.24''	9' 0.21''	1' 5.46''	13' 8.26''
1' 4.1''	4' 5.13''	1' 3.51''	5' 3.15''
1' 2.85''	3' 3''	1' 2.37''	3' 7.91''
1' 1.46''	2' 4.81''	1' 1.08''	2' 7.25''
0' 11.89''	1' 9.12''	0' 11.61''	1' 10.3''
0' 10.11''	1' 3.1''	0' 9.93''	1' 3.63''

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Focal Length 24 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	51' 10.44''	49' 0.35''	43' 8.49''	38' 11.64''	34' 8.97''	30' 11.81''	27' 7.57''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	51' 9.47''	Infinity	48' 11.38''	Infinity	43' 7.54''	Infinity	38' 10.66''	Infinity	34' 7.99''	Infinity	30' 10.85''	Infinity	27' 6.63''	Infinity
120' 0''	36' 3.26''	Infinity	34' 10.32''	Infinity	32' 1.01''	Infinity	29' 5.45''	Infinity	26' 11.69''	Infinity	24' 7.78''	Infinity	22' 5.71''	Infinity
60' 0''	27' 10.91''	Infinity	27' 0.82''	Infinity	25' 4.44''	Infinity	23' 8.44''	Infinity	22' 0.91''	Infinity	20' 5.99''	Infinity	18' 11.75''	Infinity
40' 0''	22' 8.16''	173' 3.39''	22' 1.48''	215' 2.73''	20' 11.76''	466' 7.42''	19' 9.97''	Infinity	18' 8.2''	Infinity	17' 6.54''	Infinity	16' 5.08''	Infinity
30' 0''	19' 1.21''	70' 6.45''	18' 8.48''	76' 7.08''	17' 10.62''	94' 8.06''	17' 0.55''	128' 10.2''	16' 2.33''	216' 9.59''	15' 4.02''	930' 10.92''	14' 5.69''	Infinity
25' 0''	16' 11.52''	47' 10.12''	16' 7.79''	50' 6.53''	15' 11.97''	57' 9.7''	15' 3.9''	68' 11.29''	14' 7.62''	87' 11.75''	13' 11.18''	127' 6.86''	13' 2.63''	258' 1.86''
20' 0''	14' 6.22''	32' 3.24''	14' 3.49''	33' 5.65''	13' 9.73''	36' 5.93''	13' 3.7''	40' 7.38''	12' 9.45''	46' 6.23''	12' 2.99''	55' 7.21''	11' 8.38''	71' 2.81''
15' 0''	11' 8.51''	20' 11.05''	11' 6.75''	21' 4.98''	11' 2.97''	22' 7.25''	10' 10.98''	24' 1.29''	10' 6.77''	26' 0.66''	10' 2.37''	28' 7.89''	9' 9.78''	32' 3.37''
12' 0''	9' 9.73''	15' 5.73''	9' 8.5''	15' 8.93''	9' 5.85''	16' 4.47''	9' 3.01''	17' 1.69''	9'	18' 1.15''	8' 8.81''	19' 3.64''	8' 5.45''	20' 10.43''
11' 0''	9' 1.65''	13' 10.09''	9' 0.58''	14' 0.63''	8' 10.29''	14' 6.59''	8' 7.82''	15' 1.81''	8' 5.19''	15' 10.67''	8' 2.39''	16' 9.71''	7' 11.44''	17' 11.76''
10' 0''	8' 5.31''	12' 3.38''	8' 4.4''	12' 5.38''	8' 2.44''	12' 10.01''	8' 0.33''	13' 3.58''	7' 10.07''	13' 10.33''	7' 7.66''	14' 6.64''	7' 5.1''	15' 5.03''
9' 0''	7' 8.69''	10' 9.55''	7' 7.93''	10' 11.08''	7' 6.29''	11' 2.62''	7' 4.52''	11' 6.83''	7' 2.62''	11' 11.89''	7' 0.58''	12' 6.03''	6' 10.41''	13' 1.59''
8' 6''	7' 4.27''	10' 0.95''	7' 3.58''	10' 2.27''	7' 2.1''	10' 5.34''	7' 0.49''	10' 8.97''	6' 10.76''	11' 1.31''	6' 8.91''	11' 6.54''	6' 6.92''	12' 0.95''
8' 0''	6' 11.78''	9' 4.53''	6' 11.16''	9' 5.68''	6' 9.83''	9' 8.31''	6' 8.38''	9' 11.42''	6' 6.82''	10' 3.12''	6' 5.14''	10' 7.56''	6' 3.34''	11' 0.95''
7' 6''	6' 7.21''	8' 8.31''	6' 6.66''	8' 9.29''	6' 5.47''	8' 11.54''	6' 4.18''	9' 2.18''	6' 2.78''	9' 5.31''	6' 1.27''	9' 9.04''	5' 11.65''	10' 1.54''
7' 0''	6' 2.56''	8' 0.27''	6' 2.08''	8' 1.1''	6' 1.02''	8' 3''	5' 11.88''	8' 5.23''	5' 10.64''	8' 7.85''	5' 9.29''	8' 10.96''	5' 7.85''	9' 2.69''
6' 6''	5' 9.83''	7' 4.41''	5' 9.41''	7' 5.11''	5' 8.49''	7' 6.7''	5' 7.49''	7' 8.55''	5' 6.4''	7' 10.73''	5' 5.21''	8' 1.3''	5' 3.94''	8' 4.36''
6' 0''	5' 5.02''	6' 8.72''	5' 4.66''	6' 9.3''	5' 3.86''	6' 10.61''	5' 2.99''	7' 0.14''	5' 2.05''	7' 1.92''	5' 1.02''	7' 4.02''	4' 11.91''	7' 6.5''
5' 6''	5' 0.13''	6' 1.2''	4' 11.82''	6' 1.67''	4' 11.14''	6' 2.74''	4' 10.4''	6' 3.98''	4' 9.59''	6' 5.42''	4' 8.71''	6' 7.1''	4' 7.76''	6' 9.09''
5' 0''	4' 7.14''	5' 5.84''	4' 6.89''	5' 6.21''	4' 6.32''	5' 7.07''	4' 5.7''	5' 8.05''	4' 5.02''	5' 9.2''	4' 4.28''	5' 10.53''	4' 3.48''	6' 0.09''
4' 6''	4' 2.07''	4' 10.63''	4' 1.86''	4' 10.92''	4' 1.4''	4' 11.59''	1.242	5' 0.36''	4' 0.34''	5' 1.25''	3' 11.73''	5' 2.28''	3' 11.06''	5' 3.48''
4' 0''	3' 8.91''	4' 3.57''	3' 8.74''	4' 3.8''	3' 8.38''	4' 4.31''	3' 7.97''	4' 4.89''	3' 7.53''	4' 5.56''	3' 7.04''	4' 6.34''	3' 6.5''	4' 7.23''
3' 6''	3' 3.65''	3' 8.66''	3' 3.53''	3' 8.83''	3' 3.24''	3' 9.2''	3' 2.93''	3' 9.63''	3' 2.59''	3' 10.12''	3' 2.21''	3' 10.68''	3' 1.8''	3' 11.33''
3' 0''	2' 10.3''	3' 1.89''	2' 10.21''	3' 2.01''	2' 10''	3' 2.27''	2' 9.77''	3' 2.57''	2' 9.52''	3' 2.91''	2' 9.24''	3' 3.3''	2' 8.93''	3' 3.75''
2' 6''	2' 4.85''	2' 7.26''	2' 4.78''	2' 7.33''	2' 4.64''	2' 7.51''	2' 4.48''	2' 7.7''	2' 4.31''	2' 7.93''	2' 4.12''	2' 8.18''	2' 3.9''	2' 8.47''
2' 0''	1' 11.29''	2' 0.76''	1' 11.25''	2' 0.8''	1' 11.16''	2' 0.91''	1' 11.07''	2' 1.02''	1' 10.96''	2' 1.15''	1' 10.84''	2' 1.3''	1' 10.7''	2' 1.47''
1' 9''	1' 8.47''	1' 9.56''	1' 8.45''	1' 9.59''	1' 8.38''	1' 9.66''	1' 8.31''	1' 9.75''	1' 8.22''	1' 9.85''	1' 8.13''	1' 9.95''	1' 8.03''	1' 10.08''
1' 6''	1' 5.63''	1' 6.39''	1' 5.61''	1' 6.41''	1' 5.56''	1' 6.46''	1' 5.51''	1' 6.52''	1' 5.45''	1' 6.59''	1' 5.39''	1' 6.66''	1' 5.32''	1' 6.75''
1' 3''	1' 2.76''	1' 3.25''	1' 2.75''	1' 3.26''	1' 2.72''	1' 3.3''	1' 2.68''	1' 3.33''	1' 2.65''	1' 3.38''	1' 2.6''	1' 3.42''	1' 2.56''	1' 3.48''
1' 0''	0' 11.86''	1' 0.14''	0' 11.85''	1' 0.15''	0' 11.84''	1' 0.17''	0' 11.82''	1' 0.19''	0' 11.8''	1' 0.21''	0' 11.77''	1' 0.24''	0' 11.74''	1' 0.27''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
24' 7.75''	21' 11.86''	19' 7.39''	17' 6.08''	15' 7.48''	13' 11.4''	12' 5.49''	11' 1.5''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
24' 6.8''	Infinity	21' 10.88''	Infinity	19' 6.44''	Infinity	17' 5.11''	Infinity	15' 6.54''	Infinity	13' 10.43''	Infinity	12' 4.51''	Infinity	11' 0.55''	Infinity
20' 5.47''	Infinity	18' 7''	Infinity	16' 10.27''	Infinity	15' 3.19''	Infinity	13' 9.69''	Infinity	12' 5.69''	Infinity	11' 3.08''	Infinity	10' 1.79''	Infinity
17' 6.28''	Infinity	16' 1.63''	Infinity	14' 9.86''	Infinity	13' 6.99''	Infinity	12' 5.03''	Infinity	11' 4''	Infinity	10' 3.88''	Infinity	9' 4.65''	Infinity
15' 3.91''	Infinity	14' 3.09''	Infinity	13' 2.7''	Infinity	12' 2.8''	Infinity	11' 3.42''	Infinity	10' 4.61''	Infinity	9' 6.39''	Infinity	8' 8.78''	Infinity
13' 7.42''	Infinity	12' 9.25''	Infinity	11' 11.27''	Infinity	11' 1.53''	Infinity	10' 4.08''	Infinity	9' 6.98''	Infinity	8' 10.25''	Infinity	8' 1.94''	Infinity
12' 6.04''	Infinity	11' 9.45''	Infinity	11' 0.93''	Infinity	10' 4.53''	Infinity	9' 8.3''	Infinity	9' 0.28''	Infinity	8' 4.53''	Infinity	7' 9.08''	Infinity
11' 1.63''	104' 1.86''	10' 6.81''	216' 10.06''	9' 11.95''	Infinity	9' 5.09''	Infinity	8' 10.29''	Infinity	8' 3.58''	Infinity	7' 9.02''	Infinity	7' 2.63''	Infinity
9' 5.03''	37' 7.55''	9' 0.15''	46' 2.94''	8' 7.15''	62' 3.4''	8' 2.08''	102' 1.54''	7' 8.96''	364' 6.68''	7' 3.82''	Infinity	6' 10.71''	Infinity	6' 5.66''	Infinity
8' 1.93''	22' 11.56''	7' 10.27''	25' 10.6''	7' 6.48''	30' 2.43''	7' 2.58''	37' 2.2''	6' 10.59''	50' 3.03''	6' 6.55''	83' 1.76''	6' 2.46''	316' 1.99''	5' 10.37''	Infinity
7' 8.33''	19' 6.09''	7' 5.08''	21' 6.81''	7' 1.7''	24' 5.68''	6' 10.2''	28' 10.15''	6' 6.61''	36' 1.26''	6' 2.95''	50' 4.46''	5' 11.23''	90' 8.96''	5' 7.49''	933' 11.81''
7' 2.39''	16' 6.28''	6' 11.55''	17' 11.65''	6' 8.58''	19' 11.23''	6' 5.5''	22' 8.76''	6' 2.31''	26' 11.85''	5' 11.04''	34' 2.36''	5' 7.71''	48' 10.88''	5' 4.33''	94' 10.46''
6' 8.1''	13' 11.05''	6' 5.66''	14' 11.15''	6' 3.1''	16' 3.03''	6' 0.43''	18' 0.63''	5' 9.65''	20' 7.48''	5' 6.79''	24' 6.71''	5' 3.85''	31' 3.37''	5' 0.85''	45' 2.65''
6' 4.81''	12' 8.89''	6' 2.57''	13' 6.92''	6' 0.22''	14' 7.91''	5' 9.75''	16' 1.24''	5' 7.18''	18' 1.33''	5' 4.51''	21' 0.8''	5' 1.77''	25' 9.71''	4' 10.97''	34' 6.92''
6' 1.41''	11' 7.57''	5' 11.38''	12' 3.86''	5' 9.22''	13' 2.44''	5' 6.96''	14' 4.31''	5' 4.59''	15' 11.14''	5' 2.13''	18' 1.94''	4' 11.6''	21' 6.79''	4' 8.99''	27' 4.06''
5' 9.91''	10' 7.04''	5' 8.07''	11' 1.84''	5' 6.11''	11' 10.41''	5' 4.05''	12' 9.47''	5' 1.89''	14' 0.17''	4' 11.64''	15' 8.48''	4' 9.31''	18' 2.15''	4' 6.91''	22' 1.15''
5' 6.3''	9' 7.21''	5' 4.65''	10' 0.75''	5' 2.89''	10' 7.65''	5' 1.03''	11' 4.43''	4' 11.07''	12' 3.86''	4' 9.03''	13' 7.26''	4' 6.9''	15' 4.95''	4' 4.7''	18' 1.5''
5' 2.57''	8' 8.04''	5' 1.1''	9' 0.51''	4' 11.53''	9' 6.02''	4' 9.87''	10' 0.93''	4' 8.12''	10' 9.78''	4' 6.28''	11' 9.43''	4' 4.36''	13' 1.33''	4' 2.36''	15' 0.14''
4' 10.71''	7' 9.46''	4' 9.43''	8' 1.03''	4' 8.05''	8' 5.39''	4' 6.58''	8' 10.78''	4' 5.03''	9' 5.58''	4' 3.39''	10' 2.34''	4' 1.68''	11' 1.99''	3' 11.89''	12' 6.07''
4' 6.73''	6' 11.44''	4' 5.61''	7' 2.25''	4' 4.42''	7' 5.65''	4' 3.14''	7' 9.81''	4' 1.79''	8' 2.98''	4' 0.35''	8' 9.52''	3' 10.84''	9' 6''	3' 9.26''	10' 5.35''
4' 2.6''	6' 1.92''	4' 1.66''	6' 4.11''	4' 0.64''	6' 6.72''	3' 11.55''	6' 9.88''	3' 10.39''	7' 1.75''	3' 9.15''	7' 6.57''	3' 7.84''	8' 0.69''	3' 6.46''	8' 8.66''
3' 10.34''	5' 4.88''	3' 9.55''	5' 6.54''	3' 8.7''	5' 8.51''	3' 7.79''	5' 10.86''	3' 6.81''	6' 1.71''	3' 5.76''	6' 5.21''	3' 4.65''	6' 9.56''	3' 3.47''	7' 3.09''
3' 5.92''	4' 8.28''	3' 5.28''	4' 9.51''	3' 4.59''	4' 10.95''	3' 3.85''	5' 0.66''	3' 3.05''	5' 2.71''	3' 2.18''	5' 5.19''	3' 1.26''	5' 8.22''	3' 0.29''	6'
3' 1.34''	4' 0.09''	3' 0.84''	4' 0.96''	3' 0.3''	4' 1.98''	2' 11.72''	4' 3.19''	2' 11.08''	4' 4.61''	2' 10.39''	4' 6.32''	2' 9.66''	4' 8.37''	2' 8.87''	4' 10.87''
2' 8.59''	3' 4.27''	2' 8.22''	3' 4.87''	2' 7.82''	3' 5.56''	2' 7.38''	3' 6.37''	2' 6.89''	3' 7.32''	2' 6.37''	3' 8.44''	2' 5.81''	3' 9.77''	2' 5.21''	3' 11.37''
2' 3.67''	2' 8.8''	2' 3.41''	2' 9.19''	2' 3.12''	2' 9.63''	2' 2.81''	2' 10.14''	2' 2.47''	2' 10.73''	2' 2.1''	2' 11.42''	2' 1.7''	3' 0.24''	2' 1.26''	3' 1.2''
1' 10.55''	2' 1.67''	1' 10.39''	2' 1.89''	1' 10.21''	2' 2.14''	1' 10.01''	2' 2.44''	1' 9.79''	2' 2.77''	1' 9.55''	2' 3.16''	1' 9.29''	2' 3.61''	1' 9''	2' 4.14''
1' 7.92''	1' 10.22''	1' 7.8''	1' 10.38''	1' 7.66''	1' 10.56''	1' 7.51''	1' 10.77''	1' 7.34''	1' 11.01''	1' 7.16''	1' 11.29''	1' 6.96''	1' 11.6''	1' 6.74''	1' 11.97''
1' 5.24''	1' 6.84''	1' 5.15''	1' 6.95''	1' 5.05''	1' 7.08''	1' 4.95''	1' 7.22''	1' 4.83''	1' 7.38''	1' 4.69''	1' 7.57''	1' 4.55''	1' 7.78''	1' 4.39''	1' 8.02''
1' 2.5''	1' 3.54''	1' 2.45''	1' 3.61''	1' 2.38''	1' 3.69''	1' 2.31''	1' 3.77''	1' 2.23''	1' 3.88''	1' 2.14''	1' 3.99''	1' 2.04''	1' 4.12''	1' 1.94''	1' 4.27''
0' 11.71''	1' 0.3''	0' 11.68''	1' 0.34''	0' 11.64''	1' 0.39''	0' 11.6''	1' 0.44''	0' 11.55''	1' 0.49''	0' 11.5''	1' 0.56''	0' 11.44''	1' 0.63''	0' 11.38''	1' 0.71''

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8	9	10	11	13	14	16	18
9' 11.29''	8' 10.61''	7' 11.35''	7' 1.28''	6' 4.34''	5' 8.35''	5' 1.22''	4' 6.88''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
9' 10.33''	Infinity	8' 9.67''	Infinity	7' 10.38''	Infinity	7' 0.33''	Infinity	6' 3.37''	Infinity	5' 7.39''	Infinity	5' 0.28''	Infinity	4' 5.94''	Infinity
9' 1.72''	Infinity	8' 2.78''	Infinity	7' 4.88''	Infinity	6' 7.94''	Infinity	5' 11.87''	Infinity	5' 4.6''	Infinity	4' 10.06''	Infinity	4' 4.18''	Infinity
8' 6.28''	Infinity	7' 8.74''	Infinity	6' 11.99''	Infinity	6' 3.99''	Infinity	5' 8.68''	Infinity	5' 2.04''	Infinity	4' 8''	Infinity	4' 2.53''	Infinity
7' 11.78''	Infinity	7' 3.4''	Infinity	6' 7.61''	Infinity	6' 0.41''	Infinity	5' 5.77''	Infinity	4' 11.67''	Infinity	4' 6.08''	Infinity	4' 0.98''	Infinity
7' 6.06''	Infinity	6' 10.63''	Infinity	6' 3.66''	Infinity	5' 9.15''	Infinity	5' 3.09''	Infinity	4' 9.47''	Infinity	4' 4.29''	Infinity	3' 11.52''	Infinity
7' 1.95''	Infinity	6' 7.18''	Infinity	6' 0.77''	Infinity	5' 6.74''	Infinity	5' 1.1''	Infinity	4' 7.83''	Infinity	4' 2.94''	Infinity	3' 10.41''	Infinity
6' 8.45''	Infinity	6' 2.51''	Infinity	5' 8.83''	Infinity	5' 3.44''	Infinity	4' 10.33''	Infinity	4' 5.53''	Infinity	4' 1.04''	Infinity	3' 8.84''	Infinity
6' 0.69''	Infinity	5' 7.84''	Infinity	5' 3.13''	Infinity	4' 10.59''	Infinity	4' 6.24''	Infinity	4' 2.1''	Infinity	3' 10.17''	Infinity	3' 6.46''	Infinity
5' 6.29''	Infinity	5' 2.26''	Infinity	4' 10.3''	Infinity	4' 6.44''	Infinity	4' 2.69''	Infinity	3' 11.08''	Infinity	3' 7.61''	Infinity	3' 4.31''	Infinity
5' 3.74''	Infinity	5' 0.02''	Infinity	4' 8.35''	Infinity	4' 4.74''	Infinity	4' 1.22''	Infinity	3' 9.82''	Infinity	3' 6.54''	Infinity	3' 3.4''	Infinity
5' 0.93''	Infinity	4' 9.53''	Infinity	4' 6.16''	Infinity	4' 2.83''	Infinity	3' 11.57''	Infinity	3' 8.4''	Infinity	3' 5.32''	Infinity	3' 2.37''	Infinity
4' 9.81''	90' 10.05''	4' 6.76''	Infinity	4' 3.71''	Infinity	4' 0.68''	Infinity	3' 9.7''	Infinity	3' 6.77''	Infinity	3' 3.93''	Infinity	3' 1.17''	Infinity
4' 8.12''	56' 0.27''	4' 5.25''	186' 3.11''	4' 2.37''	Infinity	3' 11.5''	Infinity	3' 8.66''	Infinity	3' 5.87''	Infinity	3' 3.15''	Infinity	3' 0.5''	Infinity
4' 6.34''	39' 1.74''	4' 3.65''	76' 3.45''	4' 0.94''	Infinity	3' 10.24''	Infinity	3' 7.55''	Infinity	3' 4.9''	Infinity	3' 2.31''	Infinity	2' 11.78''	Infinity
4' 4.45''	29' 2.18''	4' 1.95''	45' 8.47''	3' 11.42''	126' 6.04''	3' 8.89''	Infinity	3' 6.36''	Infinity	3' 3.86''	Infinity	3' 1.4''	Infinity	2' 10.99''	Infinity
4' 2.44''	22' 7.28''	4' 0.13''	31' 4.16''	3' 9.79''	55' 7''	3' 7.43''	436' 7.02''	3' 5.07''	Infinity	3' 2.73''	Infinity	3' 0.41''	Infinity	2' 10.13''	Infinity
4' 0.31''	17' 11.31''	3' 10.19''	23' 0.09''	3' 8.05''	33' 9.04''	3' 5.87''	71' 4.58''	3' 3.68''	Infinity	3' 1.5''	Infinity	2' 11.33''	Infinity	2' 9.2''	Infinity
3' 10.03''	14' 5.55''	3' 8.12''	17' 6.7''	3' 6.17''	23' 1.78''	3' 4.18''	36' 1.55''	3' 2.17''	98' 6.42''	3' 0.16''	Infinity	2' 10.15''	Infinity	2' 8.16''	Infinity
3' 7.61''	11' 9.18''	3' 5.9''	13' 8.63''	3' 4.15''	16' 10.57''	3' 2.35''	22' 9.78''	3' 0.53''	37' 10.06''	2' 10.7''	147' 11.03''	2' 8.85''	Infinity	2' 7.02''	Infinity
3' 5.02''	9' 7.37''	3' 3.52''	10' 10.42''	3' 1.96''	12' 8.9''	3' 0.37''	15' 9.85''	2' 10.74''	21' 9.1''	2' 9.09''	37' 9.43''	2' 7.42''	226' 6.82''	2' 5.75''	Infinity
3' 2.24''	7' 10.3''	3' 0.94''	8' 8''	2' 11.6''	9' 9.66''	2' 10.2''	11' 6.12''	2' 8.77''	14' 3.87''	2' 7.31''	19' 9.44''	2' 5.83''	34' 9.71''	2' 4.34''	247' 11.11''
2' 11.25''	6' 4.78''	2' 10.16''	6' 11''	2' 9.02''	7' 7.34''	2' 7.83''	8' 7.03''	2' 6.61''	10' 0.44''	2' 5.35''	12' 4.85''	2' 4.06''	16' 11.03''	2' 2.75''	28' 9.32''
2' 8.03''	5' 1.98''	2' 7.15''	5' 5.9''	2' 6.21''	5' 10.95''	2' 5.23''	6' 5.68''	2' 4.21''	7' 2.99''	2' 3.15''	8' 4.61''	2' 2.06''	10' 2.28''	2' 0.95''	13' 5.7''
2' 4.56''	4' 1.31''	2' 3.86''	4' 3.7''	2' 3.13''	4' 6.68''	2' 2.35''	4' 10.49''	2' 1.54''	5' 3.49''	2' 0.69''	5' 10.27''	1' 11.8''	6' 7.93''	1' 10.89''	7' 10.65''
2' 0.79''	3' 2.34''	2' 0.28''	3' 3.72''	1' 11.74''	3' 5.4''	1' 11.16''	3' 7.48''	1' 10.55''	3' 10.08''	1' 9.9''	4' 1.43''	1' 9.22''	4' 5.85''	1' 8.51''	4' 11.92''
1' 8.69''	2' 4.76''	1' 8.35''	2' 5.49''	1' 7.99''	2' 6.36''	1' 7.59''	2' 7.4''	1' 7.17''	2' 8.67''	1' 6.73''	2' 10.22''	1' 6.25''	3' 0.18''	1' 5.75''	3' 2.67''
1' 6.5''	2' 0.4''	1' 6.24''	2' 0.91''	1' 5.96''	2' 1.5''	1' 5.65''	2' 2.21''	1' 5.32''	2' 3.05''	1' 4.97''	2' 4.07''	1' 4.59''	2' 5.32''	1' 4.19''	2' 6.87''
1' 4.21''	1' 8.31''	1' 4.02''	1' 8.64''	1' 3.81''	1' 9.02''	1' 3.59''	1' 9.48''	1' 3.34''	1' 10.01''	1' 3.08''	1' 10.64''	1' 2.79''	1' 11.41''	1' 2.49''	2' 0.34''
1' 1.82''	1' 4.45''	1' 1.69''	1' 4.65''	1' 1.55''	1' 4.88''	1' 1.39''	1' 5.15''	1' 1.22''	1' 5.46''	1' 1.04''	1' 5.83''	1' 0.84''	1' 6.27''	1' 0.62''	1' 6.79''
0' 11.31''	1' 0.8''	0' 11.23''	1' 0.91''	0' 11.15''	1' 1.03''	0' 11.05''	1' 1.18''	0' 10.95''	1' 1.34''	0' 10.83''	1' 1.53''	0' 10.71''	1' 1.75''	0' 10.58''	1' 2.01''

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20	22
4' 1.25''	3' 8.21''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
4' 0.3''	Infinity	3' 7.27''	Infinity
3' 10.9''	Infinity	3' 6.16''	Infinity
3' 9.58''	Infinity	3' 5.1''	Infinity
3' 8.33''	Infinity	3' 4.1''	Infinity
3' 7.14''	Infinity	3' 3.14''	Infinity
3' 6.24''	Infinity	3' 2.4''	Infinity
3' 4.95''	Infinity	3' 1.35''	Infinity
3' 2.97''	Infinity	2' 11.72''	Infinity
3' 1.18''	Infinity	2' 10.22''	Infinity
3' 0.41''	Infinity	2' 9.59''	Infinity
2' 11.54''	Infinity	2' 8.85''	Infinity
2' 10.52''	Infinity	2' 7.99''	Infinity
2' 9.95''	Infinity	2' 7.51''	Infinity
2' 9.33''	Infinity	2' 6.98''	Infinity
2' 8.66''	Infinity	2' 6.4''	Infinity
2' 7.92''	Infinity	2' 5.77''	Infinity
2' 7.1''	Infinity	2' 5.07''	Infinity
2' 6.21''	Infinity	2' 4.29''	Infinity
2' 5.21''	Infinity	2' 3.43''	Infinity
2' 4.1''	Infinity	2' 2.46''	Infinity
2' 2.84''	Infinity	2' 1.36''	Infinity
2' 1.43''	139' 11.08''	2' 0.11''	Infinity
1' 11.81''	21' 2.76''	1' 10.67''	61' 2.24''
1' 9.95''	9' 11.62''	1' 8.99''	14' 2.69''
1' 7.78''	5' 8.69''	1' 7.02''	6' 10.35''
1' 5.22''	3' 5.95''	1' 4.67''	3' 10.41''
1' 3.76''	2' 8.84''	1' 3.32''	2' 11.4''
1' 2.16''	2' 1.48''	1' 1.81''	2' 2.91''
1' 0.39''	1' 7.41''	1' 0.14''	1' 8.17''
0' 10.43''	1' 2.31''	0' 10.27''	1' 2.68''

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Focal Length 28 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	70' 2.83''	66' 4.61''	59' 2.04''	52' 8.91''	47' 0.17''	41' 10.95''	37' 4.43''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	70' 1.71''	Infinity	66' 3.48''	Infinity	59' 0.91''	Infinity	52' 7.78''	Infinity	46' 11.07''	Infinity	41' 9.85''	Infinity	37' 3.31''	Infinity
120' 0''	44' 4.39''	Infinity	42' 9.58''	Infinity	39' 8.16''	Infinity	36' 8.19''	Infinity	33' 9.81''	Infinity	31' 1.12''	Infinity	28' 6.21''	Infinity
60' 0''	32' 5.31''	409' 2.49''	31' 7.19''	619' 11.7''	29' 10.47''	Infinity	28' 1.76''	Infinity	26' 5.21''	Infinity	24' 8.95''	Infinity	23' 1.1''	Infinity
40' 0''	25' 6.85''	92' 4.33''	25' 0.55''	100' 0.09''	23' 11.42''	122' 7.11''	22' 10''	164' 3.06''	21' 8.37''	265' 8.07''	20' 6.6''	867' 1.44''	19' 4.8''	Infinity
30' 0''	21' 1.21''	52' 0.66''	20' 8.92''	54' 4.69''	19' 11.88''	60' 5.08''	19' 2.49''	69' 0.27''	18' 4.8''	82' 1.85''	17' 6.85''	104' 5.83''	16' 8.71''	150' 5.09''
25' 0''	18' 6.15''	38' 7.02''	18' 2.85''	39' 10.2''	17' 7.85''	42' 11.82''	17' 0.51''	47' 1.82''	16' 4.86''	52' 10.96''	15' 8.94''	61' 3.99''	15' 0.78''	74' 8.19''
20' 0''	15' 7.62''	27' 9.55''	15' 5.27''	28' 5.32''	15' 0.25''	29' 11.98''	14' 6.93''	31' 11.54''	14' 1.33''	34' 5.96''	13' 7.46''	37' 10.46''	13' 1.34''	42' 6.57''
15' 0''	12' 5.02''	18' 11.52''	12' 3.54''	19' 3.08''	12' 0.36''	19' 11.43''	11' 8.96''	20' 9.55''	11' 5.32''	21' 9.99''	11' 1.46''	23' 1.53''	10' 9.38''	24' 9.34''
12' 0''	10' 3.59''	14' 4.64''	10' 2.58''	14' 6.67''	10' 0.39''	14' 11.36''	9' 10.03''	15' 4.94''	9' 7.49''	15' 11.64''	9' 4.76''	16' 7.76''	9' 1.86''	17' 5.75''
11' 0''	9' 6.69''	12' 11.58''	9' 5.83''	13' 1.22''	9' 3.94''	13' 5''	9' 1.91''	13' 9.47''	8' 11.7''	14' 2.79''	8' 9.34''	14' 9.19''	8' 6.81''	15' 4.98''
10' 0''	8' 9.57''	11' 7.09''	8' 8.84''	11' 8.4''	8' 7.25''	11' 11.39''	8' 5.52''	12' 2.91''	8' 3.65''	12' 7.07''	8' 1.63''	13' 0.04''	7' 11.46''	13' 6.02''
9' 0''	8' 0.22''	10' 3.14''	7' 11.62''	10' 4.16''	7' 10.3''	10' 6.48''	7' 8.86''	10' 9.2''	7' 7.3''	11' 0.39''	7' 5.61''	11' 4.17''	7' 3.78''	11' 8.68''
8' 6''	7' 7.46''	9' 7.36''	7' 6.91''	9' 8.25''	7' 5.72''	9' 10.28''	7' 4.42''	10' 0.64''	7' 3.01''	10' 3.41''	7' 1.47''	10' 6.68''	6' 11.82''	10' 10.56''
8' 0''	7' 2.63''	8' 11.7''	7' 2.14''	9' 0.47''	7' 1.08''	9' 2.23''	6' 11.91''	9' 4.27''	6' 10.64''	9' 6.66''	6' 9.26''	9' 9.47''	6' 7.77''	10' 0.79''
7' 6''	6' 9.74''	8' 4.16''	6' 9.31''	8' 4.83''	6' 8.36''	8' 6.34''	6' 7.32''	8' 8.1''	6' 6.19''	8' 10.14''	6' 4.96''	9' 0.53''	6' 3.62''	9' 3.35''
7' 0''	6' 4.79''	7' 8.75''	6' 4.41''	7' 9.32''	6' 3.57''	7' 10.6''	6' 2.66''	8' 0.09''	6' 1.66''	8' 1.82''	6' 0.57''	8' 3.84''	5' 11.39''	8' 6.22''
6' 6''	5' 11.77''	7' 1.45''	5' 11.44''	7' 1.93''	5' 10.71''	7' 3.01''	5' 9.92''	7' 4.27''	5' 9.04''	7' 5.72''	5' 8.09''	7' 7.41''	5' 7.05''	7' 9.38''
6' 0''	5' 6.69''	6' 6.26''	5' 6.4''	6' 6.66''	5' 5.78''	6' 7.57''	5' 5.09''	6' 8.61''	5' 4.34''	6' 9.81''	5' 3.51''	6' 11.2''	5' 2.61''	7' 0.82''
5' 6''	5' 1.54''	5' 11.19''	5' 1.3''	5' 11.51''	5' 0.77''	6' 0.26''	5' 0.18''	6' 1.11''	4' 11.54''	6' 2.09''	4' 10.84''	6' 3.22''	4' 10.07''	6' 4.54''
5' 0''	4' 8.32''	5' 4.22''	4' 8.12''	5' 4.48''	4' 7.68''	5' 5.08''	4' 7.19''	5' 5.77''	4' 6.65''	5' 6.55''	4' 6.07''	5' 7.46''	4' 5.42''	5' 8.5''
4' 6''	4' 3.03''	4' 9.36''	4' 2.86''	4' 9.57''	4' 2.5''	4' 10.04''	1.273	4' 10.58''	4' 1.67''	4' 11.19''	4' 1.19''	4' 11.9''	4' 0.66''	5' 0.72''
4' 0''	3' 9.66''	4' 2.6''	3' 9.53''	4' 2.76''	3' 9.25''	4' 3.12''	3' 8.94''	4' 3.54''	3' 8.59''	4' 4.01''	3' 8.2''	4' 4.55''	3' 7.78''	4' 5.16''
3' 6''	3' 4.23''	3' 7.95''	3' 4.13''	3' 8.07''	3' 3.91''	3' 8.33''	3' 3.67''	3' 8.64''	3' 3.4''	3' 8.98''	3' 3.11''	3' 9.38''	3' 2.78''	3' 9.83''
3' 0''	2' 10.72''	3' 1.39''	2' 10.64''	3' 1.47''	2' 10.49''	3' 1.66''	2' 10.31''	3' 1.88''	2' 10.11''	3' 2.12''	2' 9.9''	3' 2.4''	2' 9.66''	3' 2.72''
2' 6''	2' 5.13''	2' 6.93''	2' 5.08''	2' 6.98''	2' 4.97''	2' 7.11''	2' 4.85''	2' 7.25''	2' 4.72''	2' 7.41''	2' 4.57''	2' 7.6''	2' 4.4''	2' 7.8''
2' 0''	1' 11.46''	2' 0.56''	1' 11.43''	2' 0.6''	1' 11.37''	2' 0.67''	1' 11.29''	2' 0.76''	1' 11.21''	2' 0.85''	1' 11.11''	2' 0.96''	1' 11.01''	2' 1.09''
1' 9''	1' 8.6''	1' 9.42''	1' 8.58''	1' 9.44''	1' 8.53''	1' 9.5''	1' 8.47''	1' 9.56''	1' 8.41''	1' 9.63''	1' 8.34''	1' 9.71''	1' 8.26''	1' 9.8''
1' 6''	1' 5.72''	1' 6.29''	1' 5.7''	1' 6.31''	1' 5.67''	1' 6.35''	1' 5.63''	1' 6.39''	1' 5.58''	1' 6.44''	1' 5.54''	1' 6.49''	1' 5.48''	1' 6.56''
1' 3''	1' 2.82''	1' 3.19''	1' 2.81''	1' 3.2''	1' 2.78''	1' 3.22''	1' 2.76''	1' 3.25''	1' 2.73''	1' 3.28''	1' 2.7''	1' 3.32''	1' 2.66''	1' 3.36''
1' 2''	1' 1.85''	1' 2.16''	1' 1.84''	1' 2.17''	1' 1.82''	1' 2.19''	1' 1.79''	1' 2.21''	1' 1.77''	1' 2.24''	1' 1.74''	1' 2.27''	1' 1.71''	1' 2.3''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
33' 3.84''	29' 8.54''	26' 5.99''	23' 7.62''	21' 1.03''	18' 9.75''	16' 9.46''	14' 11.8''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
33' 2.72''	Infinity	29' 7.44''	Infinity	26' 4.87''	Infinity	23' 6.52''	Infinity	20' 11.91''	Infinity	18' 8.64''	Infinity	16' 8.35''	Infinity	14' 10.7''	Infinity
26' 1.12''	Infinity	23' 9.87''	Infinity	21' 8.47''	Infinity	19' 8.87''	Infinity	17' 11.04''	Infinity	16' 2.91''	Infinity	14' 8.42''	Infinity	13' 3.47''	Infinity
21' 5.77''	Infinity	19' 11.08''	Infinity	18' 5.11''	Infinity	16' 11.92''	Infinity	15' 7.58''	Infinity	14' 4.13''	Infinity	13' 1.59''	Infinity	11' 11.97''	Infinity
18' 3.05''	Infinity	17' 1.45''	Infinity	16' 0.08''	Infinity	14' 11.02''	Infinity	13' 10.35''	Infinity	12' 10.12''	Infinity	11' 10.4''	Infinity	10' 11.22''	Infinity
15' 10.45''	297' 3.41''	15' 0.11''	Infinity	14' 1.79''	Infinity	13' 3.54''	Infinity	12' 5.43''	Infinity	11' 7.52''	Infinity	10' 9.87''	Infinity	10' 0.54''	Infinity
14' 4.43''	98' 10.33''	13' 7.94''	155' 4.74''	12' 11.36''	434' 11.02''	12' 2.76''	Infinity	11' 6.18''	Infinity	10' 9.69''	Infinity	10' 1.34''	Infinity	9' 5.17''	Infinity
12' 7''	49' 4.82''	12' 0.48''	60' 3.86''	11' 5.8''	80' 3.12''	10' 11.02''	127' 8.52''	10' 4.17''	380' 10.22''	9' 9.29''	Infinity	9' 2.44''	Infinity	8' 7.67''	Infinity
10' 5.09''	26' 11.28''	10' 0.61''	29' 10.41''	9' 7.96''	34' 0.27''	9' 3.15''	40' 3.94''	8' 10.21''	50' 11.35''	8' 5.17''	72' 4.43''	8' 0.07''	137' 3.77''	7' 6.94''	Infinity
8' 10.77''	18' 6.24''	8' 7.51''	19' 10.17''	8' 4.09''	21' 7.04''	8' 0.51''	23' 11.35''	7' 8.79''	27' 3.59''	7' 4.95''	32' 4.83''	7' 1.01''	41' 0.35''	6' 8.99''	58' 6.85''
8' 4.11''	16' 2.59''	8' 1.25''	17' 2.66''	7' 10.23''	18' 6.14''	7' 7.06''	20' 2.56''	7' 3.75''	22' 6.52''	7' 0.32''	25' 10.81''	6' 8.78''	31' 1.35''	6' 5.15''	40' 2.6''
7' 9.13''	14' 1.32''	7' 6.66''	14' 10.34''	7' 4.04''	15' 9.71''	7' 1.28''	17' 0.34''	6' 10.38''	18' 7.75''	6' 7.36''	20' 10.5''	6' 4.23''	24' 1.42''	6' 1''	29' 2.72''
7' 1.82''	12' 2.12''	6' 11.73''	12' 8.76''	6' 9.5''	13' 4.98''	6' 7.14''	14' 3.35''	6' 4.65''	15' 4.71''	6' 2.04''	16' 10.48''	5' 11.32''	18' 11.04''	5' 8.5''	21' 10.92''
6' 10.04''	11' 3.22''	6' 8.13''	11' 8.87''	6' 6.09''	12' 3.82''	6' 3.92''	13' 0.48''	6' 1.63''	13' 11.52''	5' 11.23''	15' 1.96''	5' 8.72''	16' 9.49''	5' 6.1''	19' 1.17''
6' 6.16''	10' 4.76''	6' 4.43''	10' 9.54''	6' 2.57''	11' 3.36''	6' 0.6''	11' 10.57''	5' 10.51''	12' 7.65''	5' 8.31''	13' 7.34''	5' 6''	14' 10.86''	5' 3.6''	16' 8.25''
6' 2.18''	9' 6.7''	6' 0.62''	9' 10.71''	5' 10.96''	10' 3.56''	5' 9.18''	10' 9.52''	5' 7.28''	11' 4.94''	5' 5.28''	12' 2.37''	5' 3.18''	13' 2.65''	5' 0.98''	14' 7.2''
5' 10.1''	8' 9.02''	5' 8.72''	9' 0.36''	5' 7.23''	9' 4.37''	5' 5.64''	9' 9.25''	5' 3.94''	10' 3.28''	5' 2.13''	10' 10.83''	5' 0.23''	11' 8.52''	4' 10.24''	12' 9.28''
5' 5.92''	7' 11.7''	5' 4.7''	8' 2.45''	5' 3.39''	8' 5.74''	5' 1.97''	8' 9.7''	5' 0.46''	9' 2.55''	4' 10.86''	9' 8.56''	4' 9.16''	10' 4.14''	4' 7.36''	11' 1.95''
5' 1.63''	7' 2.72''	5' 0.57''	7' 4.96''	4' 11.42''	7' 7.62''	4' 10.19''	7' 10.81''	4' 8.86''	8' 2.67''	4' 7.45''	8' 7.39''	4' 5.94''	9' 1.29''	4' 4.35''	9' 8.77''
4' 9.23''	6' 6.07''	4' 8.32''	6' 7.87''	4' 7.34''	6' 9.99''	4' 6.27''	7' 0.51''	4' 5.12''	7' 3.54''	4' 3.89''	7' 7.22''	4' 2.58''	7' 11.75''	4' 1.19''	8' 5.4''
4' 4.72''	5' 9.72''	4' 3.95''	5' 11.14''	4' 3.12''	6' 0.8''	4' 2.21''	6' 2.77''	4' 1.23''	6' 5.11''	4' 0.18''	6' 7.93''	3' 11.06''	6' 11.35''	3' 9.86''	7' 3.57''
4' 0.08''	5' 1.66''	3' 11.45''	5' 2.76''	3' 10.76''	5' 4.04''	3' 10.01''	5' 5.54''	3' 9.19''	5' 7.31''	3' 8.32''	5' 9.43''	3' 7.37''	5' 11.97''	3' 6.36''	6' 3.06''
3' 7.32''	4' 5.88''	3' 6.81''	4' 6.7''	3' 6.25''	4' 7.66''	3' 5.65''	4' 8.78''	3' 4.99''	4' 10.09''	3' 4.27''	4' 11.63''	3' 3.5''	5' 1.48''	3' 2.67''	5' 3.69''
3' 2.42''	3' 10.35''	3' 2.03''	3' 10.95''	3' 1.6''	3' 11.65''	3' 1.12''	4' 0.45''	3' 0.61''	4' 1.38''	3' 0.04''	4' 2.48''	2' 11.43''	4' 3.77''	2' 10.77''	4' 5.31''
2' 9.39''	3' 3.08''	2' 9.1''	3' 3.5''	2' 8.78''	3' 3.97''	2' 8.43''	3' 4.52''	2' 8.04''	3' 5.16''	2' 7.62''	3' 5.91''	2' 7.16''	3' 6.77''	2' 6.66''	3' 7.79''
2' 4.22''	2' 8.04''	2' 4.02''	2' 8.31''	2' 3.79''	2' 8.62''	2' 3.55''	2' 8.98''	2' 3.27''	2' 9.38''	2' 2.98''	2' 9.86''	2' 2.65''	2' 10.4''	2' 2.29''	2' 11.04''
1' 10.9''	2' 1.23''	1' 10.77''	2' 1.39''	1' 10.63''	2' 1.57''	1' 10.47''	2' 1.78''	1' 10.3''	2' 2.01''	1' 10.11''	2' 2.29''	1' 9.9''	2' 2.6''	1' 9.67''	2' 2.96''
1' 8.18''	1' 9.9''	1' 8.08''	1' 10.02''	1' 7.97''	1' 10.15''	1' 7.86''	1' 10.3''	1' 7.73''	1' 10.47''	1' 7.58''	1' 10.67''	1' 7.42''	1' 10.89''	1' 7.25''	1' 11.15''
1' 5.42''	1' 6.63''	1' 5.35''	1' 6.71''	1' 5.27''	1' 6.8''	1' 5.19''	1' 6.9''	1' 5.1''	1' 7.02''	1' 4.99''	1' 7.15''	1' 4.88''	1' 7.3''	1' 4.75''	1' 7.48''
1' 2.62''	1' 3.4''	1' 2.57''	1' 3.46''	1' 2.52''	1' 3.51''	1' 2.47''	1' 3.58''	1' 2.41''	1' 3.65''	1' 2.34''	1' 3.74''	1' 2.26''	1' 3.83''	1' 2.18''	1' 3.94''
1' 1.68''	1' 2.34''	1' 1.64''	1' 2.38''	1' 1.6''	1' 2.43''	1' 1.55''	1' 2.49''	1' 1.5''	1' 2.55''	1' 1.44''	1' 2.62''	1' 1.37''	1' 2.7''	1' 1.3''	1' 2.79''

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8	9	10	11	13	14	16	18
13' 4.55''	11' 11.35''	10' 8.03''	9' 6.41''	8' 6.28''	7' 7.46''	6' 9.81''	6' 1.23''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
13' 3.42''	Infinity	11' 10.24''	Infinity	10' 6.94''	Infinity	9' 5.3''	Infinity	8' 5.16''	Infinity	7' 6.33''	Infinity	6' 8.69''	Infinity	6' 0.1''	Infinity
11' 11.98''	Infinity	10' 9.86''	Infinity	9' 9.03''	Infinity	8' 9.38''	Infinity	7' 10.82''	Infinity	7' 1.28''	Infinity	6' 4.66''	Infinity	5' 8.89''	Infinity
10' 11.27''	Infinity	9' 11.47''	Infinity	9' 0.55''	Infinity	8' 2.49''	Infinity	7' 5.24''	Infinity	6' 8.76''	Infinity	6' 1.01''	Infinity	5' 5.95''	Infinity
10' 0.62''	Infinity	9' 2.61''	Infinity	8' 5.22''	Infinity	7' 8.44''	Infinity	7' 0.27''	Infinity	6' 4.69''	Infinity	5' 9.7''	Infinity	5' 3.25''	Infinity
9' 3.56''	Infinity	8' 6.98''	Infinity	7' 10.82''	Infinity	7' 3.09''	Infinity	6' 7.83''	Infinity	6' 1.02''	Infinity	5' 6.67''	Infinity	5' 0.77''	Infinity
8' 9.24''	Infinity	8' 1.59''	Infinity	7' 6.25''	Infinity	6' 11.24''	Infinity	6' 4.6''	Infinity	5' 10.32''	Infinity	5' 4.43''	Infinity	4' 10.91''	Infinity
8' 1''	Infinity	7' 6.49''	Infinity	7' 0.16''	Infinity	6' 6.06''	Infinity	6' 0.21''	Infinity	5' 6.63''	Infinity	5' 1.33''	Infinity	4' 8.34''	Infinity
7' 1.8''	Infinity	6' 8.7''	Infinity	6' 3.66''	Infinity	5' 10.73''	Infinity	5' 5.92''	Infinity	5' 1.27''	Infinity	4' 8.79''	Infinity	4' 4.51''	Infinity
6' 4.92''	112' 10.6''	6' 0.82''	Infinity	5' 8.72''	Infinity	5' 4.65''	Infinity	5' 0.64''	Infinity	4' 8.71''	Infinity	4' 4.87''	Infinity	4' 1.16''	Infinity
6' 1.46''	59' 11.53''	5' 9.72''	134' 0.37''	5' 5.97''	Infinity	5' 2.22''	Infinity	4' 10.51''	Infinity	4' 6.85''	Infinity	4' 3.27''	Infinity	3' 11.78''	Infinity
5' 9.7''	38' 4.48''	5' 6.34''	59' 2.92''	5' 2.95''	152' 10.24''	4' 11.54''	Infinity	4' 8.14''	Infinity	4' 4.77''	Infinity	4' 1.46''	Infinity	3' 10.22''	Infinity
5' 5.6''	26' 7.78''	5' 2.63''	35' 2.68''	4' 11.61''	55' 2.87''	4' 8.56''	153' 6''	4' 5.49''	Infinity	4' 2.44''	Infinity	3' 11.42''	Infinity	3' 8.45''	Infinity
5' 3.4''	22' 7.06''	5' 0.63''	28' 5.29''	4' 9.8''	40' 1.86''	4' 6.94''	74' 11.01''	4' 4.05''	Infinity	4' 1.16''	Infinity	3' 10.3''	Infinity	3' 7.47''	Infinity
5' 1.1''	19' 3.4''	4' 10.53''	23' 4.52''	4' 7.9''	30' 8.63''	4' 5.22''	47' 6.48''	4' 2.52''	124' 1.86''	3' 11.8''	Infinity	3' 9.09''	Infinity	3' 6.41''	Infinity
4' 10.69''	16' 6.49''	4' 8.32''	19' 5.42''	4' 5.89''	24' 3.11''	4' 3.4''	33' 7.41''	4' 0.88''	59' 5.71''	3' 10.35''	448' 2.2''	3' 7.8''	Infinity	3' 5.28''	Infinity
4' 8.15''	14' 2.74''	4' 5.99''	16' 3.84''	4' 3.76''	19' 6.7''	4' 1.47''	25' 2.26''	3' 11.14''	37' 3.38''	3' 8.79''	81' 3.43''	3' 6.42''	Infinity	3' 4.05''	Infinity
4' 5.48''	12' 3.02''	4' 3.53''	13' 9.17''	4' 1.5''	15' 11.82''	3' 11.42''	19' 6.44''	3' 9.28''	26' 0.73''	3' 7.11''	41' 9.64''	3' 4.92''	131' 2.85''	3' 2.73''	Infinity
4' 2.68''	10' 6.52''	4' 0.93''	11' 7.65''	3' 11.11''	13' 2.12''	3' 9.22''	15' 5.8''	3' 7.29''	19' 3.47''	3' 5.31''	26' 8.21''	3' 3.31''	47' 0.26''	3' 1.29''	336' 7.92''
3' 11.72''	9' 0.62''	3' 10.17''	9' 10.09''	3' 8.56''	10' 10.93''	3' 6.88''	12' 5.22''	3' 5.15''	14' 9.09''	3' 3.37''	18' 8.34''	3' 1.55''	26' 8.92''	2' 11.72''	52' 0.34''
3' 8.59''	7' 8.86''	3' 7.25''	8' 3.63''	3' 5.84''	9' 0.54''	3' 4.37''	10' 0.71''	3' 2.84''	11' 6.15''	3' 1.26''	13' 9.05''	2' 11.65''	17' 7.5''	2' 10''	25' 9.95''
3' 5.28''	6' 6.87''	3' 4.14''	6' 11.65''	3' 2.94''	7' 5.78''	3' 1.67''	8' 1.86''	3' 0.35''	9' 0.9''	2' 10.98''	10' 4.76''	2' 9.56''	12' 5.3''	2' 8.11''	15' 11.89''
3' 1.78''	5' 6.38''	3' 0.83''	5' 9.69''	2' 11.83''	6' 1.83''	2' 10.77''	6' 7.14''	2' 9.65''	7' 2.11''	2' 8.48''	7' 11.6''	2' 7.28''	9' 1.17''	2' 6.03''	10' 10.01''
2' 10.06''	4' 7.15''	2' 9.3''	4' 9.37''	2' 8.49''	5' 0.11''	2' 7.63''	5' 3.52''	2' 6.72''	5' 7.86''	2' 5.76''	6' 1.51''	2' 4.75''	6' 9.15''	2' 3.71''	7' 7.92''
2' 6.11''	3' 9''	2' 5.53''	3' 10.44''	2' 4.9''	4' 0.17''	2' 4.23''	4' 2.29''	2' 3.52''	4' 4.91''	2' 2.76''	4' 8.21''	2' 1.96''	5' 0.46''	2' 1.13''	5' 6.11''
2' 1.91''	2' 11.78''	2' 1.49''	3' 0.66''	2' 1.03''	3' 1.7''	2' 0.54''	3' 2.94''	2' 0.02''	3' 4.44''	1' 11.45''	3' 6.28''	1' 10.86''	3' 8.57''	1' 10.22''	3' 11.47''
1' 9.42''	2' 3.38''	1' 9.14''	2' 3.86''	1' 8.84''	2' 4.43''	1' 8.51''	2' 5.1''	1' 8.16''	2' 5.89''	1' 7.78''	2' 6.84''	1' 7.37''	2' 7.98''	1' 6.94''	2' 9.37''
1' 7.05''	1' 11.45''	1' 6.84''	1' 11.79''	1' 6.61''	2' 0.19''	1' 6.36''	2' 0.65''	1' 6.09''	2' 1.2''	1' 5.79''	2' 1.84''	1' 5.47''	2' 2.61''	1' 5.13''	2' 3.53''
1' 4.61''	1' 7.68''	1' 4.46''	1' 7.91''	1' 4.29''	1' 8.17''	1' 4.1''	1' 8.48''	1' 3.9''	1' 8.84''	1' 3.68''	1' 9.26''	1' 3.44''	1' 9.75''	1' 3.19''	1' 10.33''
1' 2.08''	1' 4.07''	1' 1.98''	1' 4.21''	1' 1.86''	1' 4.37''	1' 1.74''	1' 4.56''	1' 1.6''	1' 4.78''	1' 1.45''	1' 5.03''	1' 1.29''	1' 5.33''	1' 1.11''	1' 5.67''
1' 1.22''	1' 2.9''	1' 1.13''	1' 3.02''	1' 1.03''	1' 3.15''	1' 0.92''	1' 3.31''	1' 0.81''	1' 3.49''	1' 0.68''	1' 3.7''	1' 0.53''	1' 3.94''	1' 0.38''	1' 4.22''

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20	22
5' 5.55''	4' 10.74''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
5' 4.45''	Infinity	4' 9.63''	Infinity
5' 1.89''	Infinity	4' 7.6''	Infinity
4' 11.53''	Infinity	4' 5.7''	Infinity
4' 9.34''	Infinity	4' 3.93''	Infinity
4' 7.31''	Infinity	4' 2.27''	Infinity
4' 5.78''	Infinity	4' 1.02''	Infinity
4' 3.64''	Infinity	3' 11.25''	Infinity
4' 0.43''	Infinity	3' 8.58''	Infinity
3' 9.6''	Infinity	3' 6.18''	Infinity
3' 8.42''	Infinity	3' 5.18''	Infinity
3' 7.08''	Infinity	3' 4.04''	Infinity
3' 5.54''	Infinity	3' 2.72''	Infinity
3' 4.69''	Infinity	3' 1.99''	Infinity
3' 3.77''	Infinity	3' 1.19''	Infinity
3' 2.78''	Infinity	3' 0.33''	Infinity
3' 1.71''	Infinity	2' 11.4''	Infinity
3' 0.54''	Infinity	2' 10.38''	Infinity
2' 11.27''	Infinity	2' 9.26''	Infinity
2' 9.87''	Infinity	2' 8.02''	Infinity
2' 8.33''	54' 5.7''	2' 6.66''	Infinity
2' 6.64''	23' 7.13''	2' 5.14''	51' 0.21''
2' 4.75''	13' 9.74''	2' 3.44''	20' 0.43''
2' 2.63''	9' 0.13''	2' 1.53''	11' 3.05''
2' 0.26''	6' 1.9''	1' 11.35''	7' 1.26''
1' 9.56''	4' 3.22''	1' 8.86''	4' 8.26''
1' 6.47''	2' 11.09''	1' 5.98''	3' 1.27''
1' 4.76''	2' 4.66''	1' 4.36''	2' 6.04''
1' 2.91''	1' 11.03''	1' 2.61''	1' 11.87''
1' 0.91''	1' 6.07''	1' 0.7''	1' 6.55''
1' 0.21''	1' 4.55''	1' 0.03''	1' 4.94''

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Focal Length 35 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	110' 8.35''	104' 7.39''	93' 2.78''	83' 1.05''	74' 0.62''	66' 0.05''	58' 9.98''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	110' 6.9''	Infinity	104' 5.95''	Infinity	93' 1.34''	Infinity	82' 11.64''	Infinity	73' 11.22''	Infinity	65' 10.62''	Infinity	58' 8.56''	Infinity
120' 0''	57' 7.84''	Infinity	55' 11.54''	Infinity	52' 6.41''	Infinity	49' 1.87''	Infinity	45' 10.18''	Infinity	42' 7.55''	Infinity	39' 6.21''	Infinity
60' 0''	38' 11.89''	130' 6.19''	38' 2.55''	140' 1.5''	36' 7.06''	167' 6.9''	34' 11.07''	214' 9.96''	33' 2.71''	314' 4.59''	31' 6.09''	655' 6.12''	29' 9.36''	Infinity
40' 0''	29' 5.48''	62' 4.74''	29' 0.14''	64' 6.03''	28' 0.82''	69' 8.91''	27' 0.97''	76' 8.92''	26' 0.63''	86' 5.92''	24' 11.86''	100' 10.64''	23' 10.72''	124' 0.9''
30' 0''	23' 8.02''	40' 11.97''	23' 4.58''	41' 10.72''	22' 9.21''	44' 0.42''	22' 1.38''	46' 8.59''	21' 5.13''	50' 1.74''	20' 8.45''	54' 7.79''	19' 11.39''	60' 9.36''
25' 0''	20' 5.44''	32' 2.05''	20' 2.87''	32' 8.63''	19' 9.34''	34' 0.08''	19' 3.43''	35' 6.95''	18' 9.15''	37' 6.34''	18' 2.48''	39' 11.85''	17' 7.47''	43' 1.98''
20' 0''	16' 11.89''	24' 3.82''	16' 10.12''	24' 7.54''	16' 6.3''	25' 4.18''	16' 2.17''	26' 2.49''	15' 9.75''	27' 2.94''	15' 5.01''	28' 6.16''	14' 11.97''	30' 1.03''
15' 0''	13' 3.03''	17' 3.43''	13' 1.96''	17' 5.29''	12' 11.63''	17' 9.55''	12' 9.09''	18' 2.55''	12' 6.35''	18' 8.45''	12' 3.38''	19' 3.46''	12' 0.19''	19' 11.89''
12' 0''	10' 10.35''	13' 4.9''	10' 9.63''	13' 6.01''	10' 8.07''	13' 8.53''	10' 6.36''	13' 11.46''	10' 4.5''	14' 2.88''	10' 2.47''	14' 6.89''	10' 0.27''	14' 11.62''
11' 0''	10' 0.47''	12' 2.01''	9' 11.86''	12' 2.92''	9' 10.53''	12' 4.99''	9' 9.07''	12' 7.38''	9' 7.47''	12' 10.16''	9' 5.73''	13' 1.4''	9' 3.84''	13' 5.21''
10' 0''	9' 2.43''	10' 11.42''	9' 1.92''	11' 0.16''	9' 0.8''	11' 1.82''	8' 11.57''	11' 3.74''	8' 10.23''	11' 5.95''	8' 8.76''	11' 8.54''	8' 7.16''	11' 11.55''
9' 0''	8' 4.22''	9' 9.12''	8' 3.8''	9' 9.7''	8' 2.88''	9' 11.01''	8' 1.87''	10' 0.51''	8' 0.76''	10' 2.25''	7' 11.55''	10' 4.26''	7' 10.22''	10' 6.6''
8' 6''	7' 11.05''	9' 2.07''	7' 10.68''	9' 2.58''	7' 9.85''	9' 3.73''	7' 8.94''	9' 5.06''	7' 7.95''	9' 6.58''	7' 6.85''	9' 8.34''	7' 5.65''	9' 10.38''
8' 0''	7' 5.84''	8' 7.09''	7' 5.5''	8' 7.54''	7' 4.77''	8' 8.54''	7' 3.96''	8' 9.7''	7' 3.07''	8' 11.02''	7' 2.09''	9' 0.55''	7' 1.02''	9' 2.32''
7' 6''	7' 0.58''	8' 0.18''	7' 0.29''	8' 0.57''	6' 11.64''	8' 1.44''	6' 10.92''	8' 2.44''	6' 10.13''	8' 3.58''	6' 9.26''	8' 4.9''	6' 8.31''	8' 6.42''
7' 0''	6' 7.28''	7' 5.33''	6' 7.02''	7' 5.67''	6' 6.45''	7' 6.42''	6' 5.82''	7' 7.27''	6' 5.13''	7' 8.25''	6' 4.37''	7' 9.38''	6' 3.53''	7' 10.67''
6' 6''	6' 1.93''	6' 10.56''	6' 1.71''	6' 10.84''	6' 1.21''	6' 11.47''	6' 0.67''	7' 0.2''	6' 0.07''	7' 1.03''	5' 11.4''	7' 1.98''	5' 10.67''	7' 3.07''
6' 0''	5' 8.54''	6' 3.84''	5' 8.35''	6' 4.08''	5' 7.92''	6' 4.61''	5' 7.46''	6' 5.22''	5' 6.94''	6' 5.91''	5' 6.37''	6' 6.7''	5' 5.74''	6' 7.61''
5' 6''	5' 3.1''	5' 9.19''	5' 2.94''	5' 9.39''	5' 2.58''	5' 9.83''	5' 2.19''	5' 10.33''	5' 1.75''	5' 10.9''	5' 1.27''	5' 11.55''	5' 0.74''	6' 0.3''
5' 0''	4' 9.61''	5' 2.6''	4' 9.48''	5' 2.76''	4' 9.18''	5' 3.12''	4' 8.86''	5' 3.53''	4' 8.49''	5' 3.99''	4' 8.09''	5' 4.51''	4' 7.65''	5' 5.11''
4' 6''	4' 4.07''	4' 8.08''	4' 3.97''	4' 8.21''	4' 3.73''	4' 8.49''	1.307	4' 8.81''	4' 3.17''	4' 9.17''	4' 2.84''	4' 9.59''	4' 2.48''	4' 10.06''
4' 0''	3' 10.49''	4' 1.62''	3' 10.41''	4' 1.71''	3' 10.22''	4' 1.93''	3' 10.01''	4' 2.18''	3' 9.78''	4' 2.46''	3' 9.52''	4' 2.78''	3' 9.23''	4' 3.14''
3' 6''	3' 4.86''	3' 7.21''	3' 4.79''	3' 7.28''	3' 4.65''	3' 7.45''	3' 4.49''	3' 7.63''	3' 4.31''	3' 7.84''	3' 4.12''	3' 8.08''	3' 3.9''	3' 8.35''
3' 0''	2' 11.17''	3' 0.87''	2' 11.13''	3' 0.92''	2' 11.02''	3' 1.03''	2' 10.91''	3' 1.17''	2' 10.78''	3' 1.31''	2' 10.64''	3' 1.48''	2' 10.48''	3' 1.67''
2' 6''	2' 5.44''	2' 6.58''	2' 5.41''	2' 6.62''	2' 5.34''	2' 6.69''	2' 5.26''	2' 6.78''	2' 5.17''	2' 6.88''	2' 5.07''	2' 6.99''	2' 4.97''	2' 7.12''
2' 0''	1' 11.66''	2' 0.35''	1' 11.64''	2' 0.37''	1' 11.59''	2' 0.42''	1' 11.55''	2' 0.47''	1' 11.49''	2' 0.53''	1' 11.43''	2' 0.6''	1' 11.36''	2' 0.68''
1' 9''	1' 8.75''	1' 9.26''	1' 8.73''	1' 9.28''	1' 8.7''	1' 9.31''	1' 8.66''	1' 9.35''	1' 8.62''	1' 9.39''	1' 8.58''	1' 9.44''	1' 8.53''	1' 9.5''
1' 6''	1' 5.82''	1' 6.18''	1' 5.81''	1' 6.19''	1' 5.79''	1' 6.22''	1' 5.76''	1' 6.24''	1' 5.73''	1' 6.27''	1' 5.7''	1' 6.31''	1' 5.67''	1' 6.35''
1' 3''	1' 2.88''	1' 3.12''	1' 2.88''	1' 3.13''	1' 2.86''	1' 3.14''	1' 2.85''	1' 3.16''	1' 2.83''	1' 3.18''	1' 2.81''	1' 3.2''	1' 2.78''	1' 3.22''
1' 2''	1' 1.9''	1' 2.1''	1' 1.9''	1' 2.11''	1' 1.88''	1' 2.12''	1' 1.87''	1' 2.13''	1' 1.85''	1' 2.15''	1' 1.84''	1' 2.17''	1' 1.82''	1' 2.19''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
52' 5.29''	46' 8.98''	41' 8.16''	37' 1.94''	33' 1.64''	29' 6.61''	26' 4.26''	23' 6.13''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
52' 3.89''	Infinity	46' 7.59''	Infinity	41' 6.74''	Infinity	37' 0.52''	Infinity	33' 0.23''	Infinity	29' 5.2''	Infinity	26' 2.86''	Infinity	23' 4.71''	Infinity
36' 6.31''	Infinity	33' 8.01''	Infinity	30' 11.4''	Infinity	28' 4.58''	Infinity	25' 11.58''	Infinity	23' 8.43''	Infinity	21' 7.11''	Infinity	19' 7.6''	Infinity
28' 0.66''	Infinity	26' 4.11''	Infinity	24' 7.86''	Infinity	23' 0.03''	Infinity	21' 4.73''	Infinity	19' 10.07''	Infinity	18' 4.13''	Infinity	16' 10.99''	Infinity
22' 9.28''	167' 2.99''	21' 7.63''	274' 6.73''	20' 5.86''	983' 2.32''	19' 4.05''	Infinity	18' 2.3''	Infinity	17' 0.71''	Infinity	15' 11.35''	Infinity	14' 10.3''	Infinity
19' 1.98''	69' 6.52''	18' 4.27''	82' 11.78''	17' 6.31''	105' 11.86''	16' 8.16''	153' 11.18''	15' 9.88''	313' 0.12''	14' 11.54''	Infinity	14' 1.22''	Infinity	13' 2.97''	Infinity
17' 0.11''	47' 4.73''	16' 4.45''	53' 3.06''	15' 8.51''	61' 10.15''	15' 0.33''	75' 6.41''	14' 3.97''	100' 6.43''	13' 7.47''	160' 0.81''	12' 10.89''	478' 5.61''	12' 2.28''	Infinity
14' 6.64''	32' 0.86''	14' 1.02''	34' 7.69''	13' 7.14''	38' 0.79''	13' 1''	42' 9.86''	12' 6.65''	49' 9.78''	12' 0.11''	61' 0.12''	11' 5.43''	81' 7.49''	10' 10.64''	131' 7.27''
11' 8.77''	20' 10.1''	11' 5.12''	21' 10.67''	11' 1.25''	23' 2.39''	10' 9.15''	24' 10.45''	10' 4.85''	27' 0.73''	10' 0.36''	30' 0.4''	9' 7.69''	34' 3.16''	9' 2.87''	40' 8.47''
9' 9.9''	15' 5.24''	9' 7.35''	16'	9' 4.61''	16' 8.2''	9' 1.7''	17' 6.29''	8' 10.6''	18' 6.92''	8' 7.33''	19' 11.04''	8' 3.9''	21' 8.19''	8' 0.31''	24' 0.93''
9' 1.79''	13' 9.71''	8' 11.58''	14' 3.08''	8' 9.21''	14' 9.54''	8' 6.67''	15' 5.4''	8' 3.96''	16' 3.11''	8' 1.09''	17' 3.31''	7' 10.06''	18' 6.98''	7' 6.88''	20' 3.68''
8' 5.42''	12' 3.1''	8' 3.54''	12' 7.29''	8' 1.51''	13' 0.3''	7' 11.33''	13' 6.34''	7' 9''	14' 1.71''	7' 6.52''	14' 10.83''	7' 3.89''	15' 10.32''	7' 1.12''	17' 1.13''
7' 8.78''	10' 9.34''	7' 7.21''	11' 0.56''	7' 5.51''	11' 4.37''	7' 3.68''	11' 8.92''	7' 1.71''	12' 2.41''	6' 11.61''	12' 9.11''	6' 9.37''	13' 5.42''	6' 7''	14' 3.9''
7' 4.35''	10' 0.77''	7' 2.93''	10' 3.56''	7' 1.39''	10' 6.85''	6' 11.73''	10' 10.77''	6' 9.94''	11' 3.47''	6' 8.02''	11' 9.17''	6' 5.97''	12' 4.18''	6' 3.8''	13' 0.94''
6' 11.85''	9' 4.38''	6' 10.57''	9' 6.79''	6' 9.18''	9' 9.62''	6' 7.68''	10' 0.97''	6' 6.06''	10' 4.97''	6' 4.33''	10' 9.79''	6' 2.47''	11' 3.67''	6' 0.49''	11' 10.95''
6' 7.27''	8' 8.19''	6' 6.13''	8' 10.25''	6' 4.89''	9' 0.66''	6' 3.55''	9' 3.5''	6' 2.1''	9' 6.87''	6' 0.54''	9' 10.92''	5' 10.86''	10' 3.82''	5' 9.07''	10' 9.83''
6' 2.61''	8' 0.17''	6' 1.6''	8' 1.92''	6' 0.51''	8' 3.95''	5' 11.32''	8' 6.34''	5' 10.03''	8' 9.17''	5' 8.64''	9' 0.53''	5' 7.14''	9' 4.58''	5' 5.54''	9' 9.51''
5' 9.87''	7' 4.33''	5' 8.99''	7' 5.79''	5' 8.04''	7' 7.49''	5' 6.99''	7' 9.48''	5' 5.86''	7' 11.82''	5' 4.63''	8' 2.59''	5' 3.31''	8' 5.91''	5' 1.89''	8' 9.91''
5' 5.05''	6' 8.66''	5' 4.3''	6' 9.87''	5' 3.47''	6' 11.27''	5' 2.56''	7' 0.91''	5' 1.58''	7' 2.82''	5' 0.51''	7' 5.08''	4' 11.36''	7' 7.76''	4' 10.12''	7' 10.97''
5' 0.15''	6' 1.15''	4' 11.51''	6' 2.14''	4' 10.8''	6' 3.28''	4' 10.03''	6' 4.6''	4' 9.19''	6' 6.15''	4' 8.27''	6' 7.96''	4' 7.28''	6' 10.1''	4' 6.21''	7' 0.64''
4' 7.16''	5' 5.8''	4' 6.62''	5' 6.59''	4' 6.03''	5' 7.5''	4' 5.39''	5' 8.56''	4' 4.68''	5' 9.78''	4' 3.91''	5' 11.21''	4' 3.07''	6' 0.89''	4' 2.16''	6' 2.87''
4' 2.09''	4' 10.61''	4' 1.65''	4' 11.23''	4' 1.16''	4' 11.94''	4' 0.63''	5' 0.76''	4' 0.05''	5' 1.71''	3' 11.41''	5' 2.81''	3' 10.72''	5' 4.1''	3' 9.96''	5' 5.62''
3' 8.92''	4' 3.56''	3' 8.57''	4' 4.03''	3' 8.18''	4' 4.57''	3' 7.76''	4' 5.2''	3' 7.29''	4' 5.91''	3' 6.78''	4' 6.74''	3' 6.22''	4' 7.71''	3' 5.61''	4' 8.83''
3' 3.66''	3' 8.65''	3' 3.39''	3' 9''	3' 3.09''	3' 9.4''	3' 2.76''	3' 9.86''	3' 2.4''	3' 10.38''	3' 2.01''	3' 10.98''	3' 1.57''	3' 11.68''	3' 1.1''	4' 0.49''
2' 10.3''	3' 1.89''	2' 10.1''	3' 2.13''	2' 9.89''	3' 2.41''	2' 9.64''	3' 2.73''	2' 9.38''	3' 3.1''	2' 9.08''	3' 3.52''	2' 8.76''	3' 4''	2' 8.41''	3' 4.55''
2' 4.84''	2' 7.26''	2' 4.71''	2' 7.42''	2' 4.56''	2' 7.6''	2' 4.39''	2' 7.81''	2' 4.21''	2' 8.05''	2' 4''	2' 8.32''	2' 3.78''	2' 8.64''	2' 3.53''	2' 8.99''
1' 11.29''	2' 0.76''	1' 11.2''	2' 0.86''	1' 11.11''	2' 0.97''	1' 11.01''	2' 1.09''	1' 10.89''	2' 1.23''	1' 10.76''	2' 1.39''	1' 10.62''	2' 1.58''	1' 10.46''	2' 1.79''
1' 8.47''	1' 9.56''	1' 8.41''	1' 9.63''	1' 8.34''	1' 9.71''	1' 8.26''	1' 9.8''	1' 8.17''	1' 9.91''	1' 8.08''	1' 10.02''	1' 7.97''	1' 10.15''	1' 7.85''	1' 10.31''
1' 5.63''	1' 6.39''	1' 5.58''	1' 6.44''	1' 5.53''	1' 6.5''	1' 5.48''	1' 6.56''	1' 5.42''	1' 6.63''	1' 5.35''	1' 6.71''	1' 5.27''	1' 6.8''	1' 5.19''	1' 6.91''
1' 2.76''	1' 3.25''	1' 2.73''	1' 3.28''	1' 2.69''	1' 3.32''	1' 2.66''	1' 3.36''	1' 2.62''	1' 3.41''	1' 2.57''	1' 3.46''	1' 2.52''	1' 3.52''	1' 2.47''	1' 3.58''
1' 1.79''	1' 2.21''	1' 1.77''	1' 2.24''	1' 1.74''	1' 2.27''	1' 1.71''	1' 2.3''	1' 1.68''	1' 2.34''	1' 1.64''	1' 2.39''	1' 1.59''	1' 2.43''	1' 1.55''	1' 2.49''

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8	9	10	11	13	14	16	18
20' 11.69''	18' 8.57''	16' 8.43''	14' 10.9''	13' 3.72''	11' 10.68''	10' 7.44''	9' 5.9''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
20' 10.28''	Infinity	18' 7.17''	Infinity	16' 7.02''	Infinity	14' 9.51''	Infinity	13' 2.34''	Infinity	11' 9.27''	Infinity	10' 6.05''	Infinity	9' 4.5''	Infinity
17' 9.86''	Infinity	16' 1.81''	Infinity	14' 7.39''	Infinity	13' 2.52''	Infinity	11' 11.1''	Infinity	10' 9.05''	Infinity	9' 8.28''	Infinity	8' 8.68''	Infinity
15' 6.69''	Infinity	14' 3.28''	Infinity	13' 0.78''	Infinity	11' 11.2''	Infinity	10' 10.54''	Infinity	9' 10.78''	Infinity	8' 11.91''	Infinity	8' 1.88''	Infinity
13' 9.64''	Infinity	12' 9.44''	Infinity	11' 9.73''	Infinity	10' 10.58''	Infinity	10'	Infinity	9' 2.03''	Infinity	8' 4.66''	Infinity	7' 7.91''	Infinity
12' 4.86''	Infinity	11' 6.96''	Infinity	10' 9.32''	Infinity	10'	Infinity	9' 3.04''	Infinity	8' 6.47''	Infinity	7' 10.33''	Infinity	7' 2.63''	Infinity
11' 5.7''	Infinity	10' 9.21''	Infinity	10' 0.86''	Infinity	9' 4.7''	Infinity	8' 8.78''	Infinity	8' 1.14''	Infinity	7' 5.81''	Infinity	6' 10.82''	Infinity
10' 3.78''	422' 3.55''	9' 8.9''	Infinity	9' 2.05''	Infinity	8' 7.27''	Infinity	8' 0.61''	Infinity	7' 6.1''	Infinity	6' 11.78''	Infinity	6' 5.69''	Infinity
8' 9.93''	51' 7.41''	8' 4.89''	73' 10.64''	7' 11.78''	143' 6.16''	7' 6.64''	Infinity	7' 1.5''	Infinity	6' 8.39''	Infinity	6' 3.36''	Infinity	5' 10.42''	Infinity
7' 8.58''	27' 5.88''	7' 4.73''	32' 8.41''	7' 0.78''	41' 6.73''	6' 8.75''	59' 9.36''	6' 4.68''	117' 11.51''	6' 0.57''	Infinity	5' 8.47''	Infinity	5' 4.4''	Infinity
7' 3.56''	22' 8.07''	7' 0.12''	26' 1.09''	6' 8.57''	31' 5''	6' 4.94''	40' 9.37''	6' 1.24''	61' 4.3''	5' 9.5''	141' 11.88''	5' 5.74''	Infinity	5' 1.99''	Infinity
6' 10.21''	18' 8.8''	6' 7.19''	20' 11.97''	6' 4.05''	24' 3.6''	6' 0.81''	29' 6.27''	5' 9.5''	38' 11.26''	5' 6.14''	60' 8.9''	5' 2.74''	164' 4.07''	4' 11.33''	Infinity
6' 4.51''	15' 5.43''	6' 1.89''	16' 11.43''	5' 11.16''	19' 0.37''	5' 8.33''	22' 0.89''	5' 5.42''	26' 11.01''	5' 2.45''	35' 8.93''	4' 11.42''	56' 7.95''	4' 8.36''	166' 2.33''
6' 1.5''	14' 0.11''	5' 11.09''	15' 2.73''	5' 8.57''	16' 10.54''	5' 5.95''	19' 2.66''	5' 3.24''	22' 9.37''	5' 0.46''	28' 9.34''	4' 9.63''	40' 10.8''	4' 6.76''	77' 9.7''
5' 10.39''	12' 8.13''	5' 8.18''	13' 7.96''	5' 5.87''	14' 11.67''	5' 3.45''	16' 9.39''	5' 0.95''	19' 5.08''	4' 10.37''	23' 7.24''	4' 7.74''	31' 1.82''	4' 5.05''	48' 8.2''
5' 7.17''	11' 5.33''	5' 5.17''	12' 2.86''	5' 3.05''	13' 3.3''	5' 0.85''	14' 8.06''	4' 10.55''	16' 7.72''	4' 8.18''	19' 7.3''	4' 5.74''	24' 6.32''	4' 3.25''	34' 2.2''
5' 3.84''	10' 3.59''	5' 2.03''	10' 11.22''	5' 0.12''	11' 9.02''	4' 10.12''	12' 9.94''	4' 8.03''	14' 3.64''	4' 5.86''	16' 5.15''	4' 3.62''	19' 8.77''	4' 1.33''	25' 6.03''
5' 0.38''	9' 2.8''	4' 10.76''	9' 8.86''	4' 9.06''	10' 4.53''	4' 7.26''	11' 2.45''	4' 5.37''	12' 3.69''	4' 3.41''	13' 10.09''	4' 1.38''	16' 1.19''	3' 11.28''	19' 8.69''
4' 8.79''	8' 2.86''	4' 7.36''	8' 7.64''	4' 5.85''	9' 1.58''	4' 4.26''	9' 9.15''	4' 2.58''	10' 7.01''	4' 0.82''	11' 8.3''	3' 10.99''	13' 3.04''	3' 9.1''	15' 7.2''
4' 5.05''	7' 3.7''	4' 3.82''	7' 7.41''	4' 2.5''	7' 11.97''	4' 1.1''	8' 5.68''	3' 11.63''	9' 0.98''	3' 10.08''	9' 10.55''	3' 8.46''	10' 11.56''	3' 6.77''	12' 6.12''
4' 1.18''	6' 5.23''	4' 0.12''	6' 8.07''	3' 10.99''	6' 11.52''	3' 9.79''	7' 3.78''	3' 8.51''	7' 9.12''	3' 7.17''	8' 3.96''	3' 5.75''	9' 0.97''	3' 4.27''	10' 1.29''
3' 9.15''	5' 7.4''	3' 8.26''	5' 9.53''	3' 7.32''	6' 0.09''	3' 6.3''	6' 3.21''	3' 5.22''	6' 7.06''	3' 4.07''	6' 11.88''	3' 2.86''	7' 6.07''	3' 1.59''	8' 2.23''
3' 4.95''	4' 10.15''	3' 4.23''	4' 11.71''	3' 3.45''	5' 1.57''	3' 2.62''	5' 3.8''	3' 1.73''	5' 6.51''	3' 0.78''	5' 9.84''	2' 11.77''	6' 2.03''	2' 10.7''	6' 7.38''
3' 0.58''	4' 1.43''	3' 0.01''	4' 2.53''	2' 11.4''	4' 3.83''	2' 10.74''	4' 5.38''	2' 10.02''	4' 7.23''	2' 9.26''	4' 9.48''	2' 8.44''	5' 0.23''	2' 7.58''	5' 3.67''
2' 8.02''	3' 5.19''	2' 7.59''	3' 5.94''	2' 7.13''	3' 6.81''	2' 6.63''	3' 7.84''	2' 6.08''	3' 9.05''	2' 5.49''	3' 10.5''	2' 4.86''	4' 0.25''	2' 4.19''	4' 2.38''
2' 3.26''	2' 9.4''	2' 2.96''	2' 9.88''	2' 2.63''	2' 10.43''	2' 2.27''	2' 11.07''	2' 1.88''	2' 11.82''	2' 1.46''	3' 0.7''	2' 1''	3' 1.74''	2' 0.51''	3' 2.99''
1' 10.29''	2' 2.02''	1' 10.1''	2' 2.3''	1' 9.89''	2' 2.61''	1' 9.65''	2' 2.97''	1' 9.4''	2' 3.39''	1' 9.12''	2' 3.88''	1' 8.82''	2' 4.45''	1' 8.49''	2' 5.13''
1' 7.72''	1' 10.48''	1' 7.57''	1' 10.67''	1' 7.41''	1' 10.9''	1' 7.24''	1' 11.16''	1' 7.04''	1' 11.46''	1' 6.83''	1' 11.8''	1' 6.6''	2' 0.2''	1' 6.35''	2' 0.67''
1' 5.09''	1' 7.02''	1' 4.99''	1' 7.16''	1' 4.87''	1' 7.31''	1' 4.74''	1' 7.49''	1' 4.6''	1' 7.69''	1' 4.45''	1' 7.92''	1' 4.28''	1' 8.18''	1' 4.09''	1' 8.49''
1' 2.4''	1' 3.66''	1' 2.33''	1' 3.74''	1' 2.26''	1' 3.84''	1' 2.17''	1' 3.95''	1' 2.08''	1' 4.07''	1' 1.97''	1' 4.22''	1' 1.86''	1' 4.38''	1' 1.73''	1' 4.57''
1' 1.49''	1' 2.55''	1' 1.43''	1' 2.62''	1' 1.37''	1' 2.7''	1' 1.3''	1' 2.8''	1' 1.22''	1' 2.9''	1' 1.13''	1' 3.02''	1' 1.03''	1' 3.16''	1' 0.92''	1' 3.31''

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20	22
8' 5.81''	7' 7.06''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
8' 4.42''	Infinity	7' 5.67''	Infinity
7' 10.18''	Infinity	7' 0.69''	Infinity
7' 4.67''	Infinity	6' 8.23''	Infinity
6' 11.77''	Infinity	6' 4.22''	Infinity
6' 7.38''	Infinity	6' 0.59''	Infinity
6' 4.18''	Infinity	5' 9.92''	Infinity
5' 11.85''	Infinity	5' 6.27''	Infinity
5' 5.62''	Infinity	5' 0.97''	Infinity
5' 0.39''	Infinity	4' 8.45''	Infinity
4' 10.27''	Infinity	4' 6.61''	Infinity
4' 7.92''	Infinity	4' 4.56''	Infinity
4' 5.3''	Infinity	4' 2.24''	Infinity
4' 3.87''	Infinity	4' 0.98''	Infinity
4' 2.34''	133' 0.6''	3' 11.62''	Infinity
4' 0.72''	61' 5.22''	3' 10.18''	606' 1.41''
3' 10.99''	38' 0.46''	3' 8.63''	85' 3.56''
3' 9.14''	26' 5.12''	3' 6.97''	42' 10''
3' 7.16''	19' 5.85''	3' 5.18''	27' 1.17''
3' 5.03''	14' 10.47''	3' 3.25''	18' 10.74''
3' 2.74''	11' 6.98''	3' 1.16''	13' 10.33''
3' 0.26''	9' 1.4''	2' 10.89''	10' 5.48''
2' 9.58''	7' 2.42''	2' 8.41''	8' 0.02''
2' 6.66''	5' 8.04''	2' 5.7''	6' 1.75''
2' 3.47''	4' 5.02''	2' 2.71''	4' 8.35''
1' 11.98''	3' 4.51''	1' 11.42''	3' 6.36''
1' 8.14''	2' 5.92''	1' 7.76''	2' 6.87''
1' 6.07''	2' 1.22''	1' 5.77''	2' 1.87''
1' 3.89''	1' 8.85''	1' 3.67''	1' 9.27''
1' 1.59''	1' 4.79''	1' 1.44''	1' 5.04''
1' 0.8''	1' 3.49''	1' 0.67''	1' 3.7''

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Focal Length 40 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	133' 10.81''	126' 6.54''	112' 9.27''	100' 6.02''	89' 6.84''	79' 9.95''	71' 1.86''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	133' 9.22''	Infinity	126' 4.95''	Infinity	112' 7.69''	Infinity	100' 4.45''	Infinity	89' 5.27''	Infinity	79' 8.41''	Infinity	71' 0.29''	Infinity
120' 0''	63' 4.5''	1151' 8.79''	61' 8.18''	2311' 1.61''	58' 2.66''	Infinity	54' 9.29''	Infinity	51' 4.35''	Infinity	48' 0.08''	Infinity	44' 8.75''	Infinity
60' 0''	41' 6.28''	108' 3.93''	40' 9.51''	113' 8.03''	39' 3.07''	127' 8.12''	37' 7.97''	148' 2.17''	36' 0.3''	180' 9.37''	34' 4.17''	240' 1.18''	32' 7.71''	380' 2.34''
40' 0''	30' 10.52''	56' 10.04''	30' 5.67''	58' 3.21''	29' 7.32''	61' 8.7''	28' 8.39''	66' 1.58''	27' 8.89''	71' 10.73''	26' 8.87''	79' 8.32''	25' 8.38''	90' 8.98''
30' 0''	24' 6.91''	38' 6.3''	24' 3.84''	39' 2.09''	23' 9.23''	40' 8.41''	23' 2.17''	42' 6.76''	22' 6.65''	44' 10.43''	21' 10.69''	47' 9.31''	21' 2.29''	51' 6.28''
25' 0''	21' 1.52''	30' 7.56''	20' 11.25''	31' 0.46''	20' 6.36''	31' 11.83''	20' 1.09''	33' 1.45''	19' 7.44''	34' 5.95''	19' 1.41''	36' 2.19''	18' 7''	38' 3.42''
20' 0''	17' 5.43''	23' 5.14''	17' 3.89''	23' 7.98''	17' 0.54''	24' 2.51''	16' 8.91''	24' 10.21''	16' 4.99''	25' 7.36''	16' 0.77''	26' 6.33''	15' 8.25''	27' 7.61''
15' 0''	13' 6.37''	16' 9.99''	13' 5.45''	16' 11.44''	13' 3.44''	17' 2.74''	13' 1.24''	17' 6.58''	12' 10.85''	17' 11.07''	12' 8.25''	18' 4.33''	12' 5.43''	18' 10.57''
12' 0''	11' 0.57''	13' 1.62''	10' 11.97''	13' 2.49''	10' 10.63''	13' 4.47''	10' 9.16''	13' 6.76''	10' 7.56''	13' 9.4''	10' 5.8''	14' 0.47''	10' 3.89''	14' 4.06''
11' 0''	10' 2.37''	11' 11.31''	10' 1.85''	12' 0.03''	10' 0.72''	12' 1.66''	9' 11.47''	12' 3.53''	9' 10.1''	12' 5.69''	9' 8.6''	12' 8.19''	9' 6.96''	12' 11.1''
10' 0''	9' 4.02''	10' 9.23''	9' 3.59''	10' 9.81''	9' 2.64''	10' 11.13''	9' 1.59''	11' 0.63''	9' 0.45''	11' 2.37''	8' 11.18''	11' 4.38''	8' 9.8''	11' 6.7''
9' 0''	8' 5.53''	9' 7.38''	8' 5.17''	9' 7.84''	8' 4.4''	9' 8.88''	8' 3.54''	9' 10.07''	8' 2.6''	9' 11.43''	8' 1.56''	10' 1.01''	8' 0.42''	10' 2.82''
8' 6''	8' 0.22''	9' 0.53''	7' 11.91''	9' 0.94''	7' 11.21''	9' 1.85''	7' 10.44''	9' 2.9''	7' 9.6''	9' 4.1''	7' 8.66''	9' 5.48''	7' 7.64''	9' 7.07''
8' 0''	7' 6.88''	8' 5.74''	7' 6.6''	8' 6.1''	7' 5.98''	8' 6.9''	7' 5.3''	8' 7.82''	7' 4.54''	8' 8.86''	7' 3.71''	8' 10.06''	7' 2.8''	8' 11.45''
7' 6''	7' 1.51''	7' 11.01''	7' 1.26''	7' 11.32''	7' 0.71''	8' 0.01''	7' 0.11''	8' 0.8''	6' 11.44''	8' 1.71''	6' 10.7''	8' 2.75''	6' 9.89''	8' 3.94''
7' 0''	6' 8.09''	7' 4.32''	6' 7.87''	7' 4.59''	6' 7.4''	7' 5.19''	6' 6.87''	7' 5.87''	6' 6.28''	7' 6.64''	6' 5.64''	7' 7.53''	6' 4.93''	7' 8.55''
6' 6''	6' 2.63''	6' 9.69''	6' 2.45''	6' 9.92''	6' 2.04''	6' 10.43''	6' 1.58''	6' 11.01''	6' 1.07''	6' 11.66''	6' 0.51''	7' 0.42''	5' 11.89''	7' 1.28''
6' 0''	5' 9.14''	6' 3.11''	5' 8.98''	6' 3.3''	5' 8.63''	6' 3.73''	5' 8.24''	6' 4.22''	5' 7.81''	6' 4.77''	5' 7.33''	6' 5.4''	5' 6.8''	6' 6.11''
5' 6''	5' 3.61''	5' 8.59''	5' 3.47''	5' 8.74''	5' 3.18''	5' 9.1''	5' 2.85''	5' 9.5''	5' 2.48''	5' 9.95''	5' 2.08''	5' 10.47''	5' 1.63''	5' 11.06''
5' 0''	4' 10.03''	5' 2.11''	4' 9.92''	5' 2.24''	4' 9.68''	5' 2.52''	4' 9.41''	5' 2.85''	4' 9.1''	5' 3.22''	4' 8.77''	5' 3.64''	4' 8.4''	5' 4.11''
4' 6''	4' 4.42''	4' 7.68''	4' 4.33''	4' 7.79''	4' 4.13''	4' 8.01''	4' 3.91''	4' 8.27''	4' 3.67''	4' 8.56''	4' 3.4''	4' 8.89''	4' 3.1''	4' 9.27''
4' 0''	3' 10.76''	4' 1.31''	3' 10.69''	4' 1.39''	3' 10.54''	4' 1.56''	3' 10.37''	4' 1.76''	3' 10.17''	4' 1.98''	3' 9.96''	4' 2.24''	3' 9.72''	4' 2.53''
3' 6''	3' 5.07''	3' 6.98''	3' 5.01''	3' 7.04''	3' 4.9''	3' 7.17''	3' 4.77''	3' 7.32''	3' 4.62''	3' 7.48''	3' 4.46''	3' 7.67''	3' 4.28''	3' 7.89''
3' 0''	2' 11.33''	3' 0.7''	2' 11.29''	3' 0.74''	2' 11.21''	3' 0.83''	2' 11.11''	3' 0.94''	2' 11.01''	3' 1.06''	2' 10.89''	3' 1.19''	2' 10.76''	3' 1.34''
2' 6''	2' 5.55''	2' 6.47''	2' 5.52''	2' 6.49''	2' 5.47''	2' 6.56''	2' 5.4''	2' 6.63''	2' 5.33''	2' 6.7''	2' 5.25''	2' 6.79''	2' 5.16''	2' 6.89''
2' 0''	1' 11.73''	2' 0.28''	1' 11.71''	2' 0.3''	1' 11.67''	2' 0.34''	1' 11.63''	2' 0.38''	1' 11.59''	2' 0.42''	1' 11.54''	2' 0.48''	1' 11.49''	2' 0.54''
1' 9''	1' 8.8''	1' 9.21''	1' 8.79''	1' 9.22''	1' 8.76''	1' 9.25''	1' 8.73''	1' 9.28''	1' 8.7''	1' 9.31''	1' 8.66''	1' 9.35''	1' 8.62''	1' 9.39''
1' 6''	1' 5.86''	1' 6.14''	1' 5.85''	1' 6.15''	1' 5.83''	1' 6.17''	1' 5.81''	1' 6.19''	1' 5.79''	1' 6.22''	1' 5.76''	1' 6.24''	1' 5.74''	1' 6.27''
1' 3''	1' 2.91''	1' 3.09''	1' 2.9''	1' 3.1''	1' 2.89''	1' 3.11''	1' 2.88''	1' 3.12''	1' 2.86''	1' 3.14''	1' 2.85''	1' 3.16''	1' 2.83''	1' 3.18''
1' 2''	1' 1.92''	1' 2.08''	1' 1.92''	1' 2.08''	1' 1.91''	1' 2.09''	1' 1.9''	1' 2.1''	1' 1.89''	1' 2.12''	1' 1.87''	1' 2.13''	1' 1.86''	1' 2.15''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1	8
63' 5.1''	56' 6.46''	50' 4.84''	44' 11.25''	40' 0.79''	35' 8.74''	31' 10.36''	28' 5.02''	25' 4

3.2		3.5		4		4.5		5		5.6		6.3		7.1		8
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)
63' 3.54''	Infinity	56' 4.9''	Infinity	50' 3.28''	Infinity	44' 9.69''	Infinity	39' 11.25''	Infinity	35' 7.19''	Infinity	31' 8.82''	Infinity	28' 3.5''	Infinity	25' 2.68''
41' 6.55''	Infinity	38' 5.7''	Infinity	35' 6.35''	Infinity	32' 8.64''	Infinity	30' 0.65''	Infinity	27' 6.47''	Infinity	25' 2.12''	Infinity	22' 11.61''	Infinity	20' 10.93''
30' 11.05''	1103' 0.73''	29' 2.32''	Infinity	27' 5.67''	Infinity	25' 9.22''	Infinity	24' 1.1''	Infinity	22' 5.45''	Infinity	20' 10.37''	Infinity	19' 3.96''	Infinity	17' 10.29''
24' 7.48''	107' 5.94''	23' 6.24''	135' 7.22''	22' 4.72''	191' 11.88''	21' 3.03''	360' 3.55''	20' 1.24''	Infinity	18' 11.46''	Infinity	17' 9.76''	Infinity	16' 8.24''	Infinity	15' 6.98''
20' 5.49''	56' 6.01''	19' 8.31''	63' 4.54''	18' 10.8''	73' 4.99''	18' 1''	89' 3.65''	17' 2.98''	117' 11.9''	16' 4.78''	184' 7.62''	15' 6.49''	505' 5.07''	14' 8.15''	Infinity	13' 9.85''
18' 0.22''	40' 11.49''	17' 5.09''	44' 5.3''	16' 9.63''	49' 1.65''	16' 1.88''	55' 9.07''	15' 5.86''	65' 8.35''	14' 9.62''	82' 1.84''	14' 1.22''	114' 4.08''	13' 4.69''	204' 3.54''	12' 8.1''
15' 3.42''	28' 11.92''	14' 10.28''	30' 8.26''	14' 4.86''	32' 10.15''	13' 11.15''	35' 7.93''	13' 5.19''	39' 5.54''	12' 10.98''	44' 9.96''	12' 4.57''	52' 11.04''	11' 9.99''	66' 4.59''	11' 3.27''
12' 2.4''	19' 6''	11' 11.14''	20' 2.95''	11' 7.64''	21' 1.86''	11' 3.93''	22' 3.35''	10' 11.99''	23' 8.32''	10' 7.83''	25' 6.15''	10' 3.47''	27' 11.07''	9' 10.93''	31' 2.86''	9' 6.21''
10' 1.81''	14' 8.28''	9' 11.56''	15' 1.27''	9' 9.14''	15' 7.23''	9' 6.53''	16' 2.4''	9' 3.74''	16' 11.15''	9' 0.77''	17' 9.96''	8' 9.62''	18' 11.58''	8' 6.31''	20' 5.1''	8' 2.83''
9' 5.17''	13' 2.51''	9' 3.24''	13' 6.52''	9' 1.14''	13' 11.27''	8' 10.88''	14' 4.95''	8' 8.46''	14' 11.81''	8' 5.87''	15' 8.2''	8' 3.11''	16' 6.61''	8' 0.2''	17' 7.78''	7' 9.12''
8' 8.3''	11' 9.4''	8' 6.66''	12' 0.57''	8' 4.88''	12' 4.3''	8' 2.95''	12' 8.73''	8' 0.88''	13' 2.03''	7' 10.66''	13' 8.45''	7' 8.28''	14' 4.3''	7' 5.76''	15' 2.08''	7' 3.09''
7' 11.17''	10' 4.93''	7' 9.81''	10' 7.38''	7' 8.33''	10' 10.25''	7' 6.73''	11' 1.63''	7' 4.99''	11' 5.65''	7' 3.12''	11' 10.47''	7' 1.12''	12' 4.29''	6' 10.98''	12' 11.44''	6' 8.7''
7' 6.52''	9' 8.91''	7' 5.29''	9' 11.05''	7' 3.95''	10' 1.55''	7' 2.5''	10' 4.48''	7' 0.92''	10' 7.95''	6' 11.22''	11' 0.08''	6' 9.4''	11' 5.06''	6' 7.45''	11' 11.12''	6' 5.36''
7' 1.79''	9' 1.04''	7' 0.69''	9' 2.89''	6' 11.49''	9' 5.05''	6' 10.19''	9' 7.57''	6' 8.77''	9' 10.54''	6' 7.24''	10' 2.07''	6' 5.59''	10' 6.29''	6' 3.82''	10' 11.4''	6' 1.92''
6' 9''	8' 5.31''	6' 8.02''	8' 6.9''	6' 6.96''	8' 8.75''	6' 5.79''	8' 10.9''	6' 4.53''	9' 1.43''	6' 3.15''	9' 4.42''	6' 1.67''	9' 7.97''	6' 0.08''	10' 0.25''	5' 10.38''
6' 4.14''	7' 9.72''	6' 3.28''	7' 11.08''	6' 2.34''	8' 0.64''	6' 1.31''	8' 2.46''	6' 0.19''	8' 4.59''	5' 10.98''	8' 7.1''	5' 9.66''	8' 10.07''	5' 8.24''	9' 1.61''	5' 6.72''
5' 11.21''	7' 2.27''	5' 10.46''	7' 3.4''	5' 9.64''	7' 4.72''	5' 8.74''	7' 6.24''	5' 7.76''	7' 8.02''	5' 6.7''	7' 10.1''	5' 5.54''	8' 0.55''	5' 4.29''	8' 3.46''	5' 2.94''
5' 6.21''	6' 6.94''	5' 5.57''	6' 7.88''	5' 4.86''	6' 8.97''	5' 4.09''	6' 10.23''	5' 3.24''	6' 11.69''	5' 2.31''	7' 1.4''	5' 1.31''	7' 3.4''	5' 0.22''	7' 5.77''	4' 11.04''
5' 1.14''	5' 11.74''	5' 0.59''	6' 0.51''	4' 11.99''	6' 1.4''	4' 11.33''	6' 2.42''	4' 10.61''	6' 3.61''	4' 9.82''	6' 4.99''	4' 8.96''	6' 6.6''	4' 8.03''	6' 8.49''	4' 7.02''
4' 7.99''	5' 4.66''	4' 7.54''	5' 5.28''	4' 7.04''	5' 5.99''	4' 6.49''	5' 6.81''	4' 5.88''	5' 7.76''	4' 5.22''	5' 8.85''	4' 4.5''	5' 10.13''	4' 3.71''	5' 11.62''	4' 2.85''
4' 2.76''	4' 9.7''	4' 2.39''	4' 10.19''	4' 1.99''	4' 10.75''	4' 1.54''	4' 11.39''	4' 1.04''	5' 0.13''	4' 0.5''	5' 0.98''	3' 11.91''	5' 1.96''	3' 11.26''	5' 3.11''	3' 10.55''
3' 9.46''	4' 2.86''	3' 9.17''	4' 3.23''	3' 8.84''	4' 3.66''	3' 8.49''	4' 4.15''	3' 8.09''	4' 4.71''	3' 7.66''	4' 5.35''	3' 7.18''	4' 6.09''	3' 6.66''	4' 6.95''	3' 6.09''
3' 4.08''	3' 8.13''	3' 3.85''	3' 8.41''	3' 3.61''	3' 8.72''	3' 3.33''	3' 9.08''	3' 3.03''	3' 9.49''	3' 2.7''	3' 9.96''	3' 2.33''	3' 10.5''	3' 1.92''	3' 11.12''	3' 1.48''
2' 10.61''	3' 1.51''	2' 10.45''	3' 1.71''	2' 10.27''	3' 1.93''	2' 10.07''	3' 2.18''	2' 9.85''	3' 2.47''	2' 9.6''	3' 2.8''	2' 9.33''	3' 3.17''	2' 9.03''	3' 3.6''	2' 8.7''
2' 5.06''	2' 7.01''	2' 4.95''	2' 7.14''	2' 4.83''	2' 7.28''	2' 4.69''	2' 7.45''	2' 4.54''	2' 7.63''	2' 4.37''	2' 7.85''	2' 4.18''	2' 8.09''	2' 3.98''	2' 8.37''	2' 3.75''
1' 11.43''	2' 0.61''	1' 11.36''	2' 0.68''	1' 11.28''	2' 0.77''	1' 11.2''	2' 0.87''	1' 11.1''	2' 0.98''	1' 11''	2' 1.1''	1' 10.88''	2' 1.25''	1' 10.75''	2' 1.41''	1' 10.61''
1' 8.58''	1' 9.44''	1' 8.53''	1' 9.5''	1' 8.47''	1' 9.56''	1' 8.41''	1' 9.63''	1' 8.34''	1' 9.71''	1' 8.26''	1' 9.81''	1' 8.17''	1' 9.91''	1' 8.07''	1' 10.03''	1' 7.97''
1' 5.7''	1' 6.31''	1' 5.67''	1' 6.35''	1' 5.63''	1' 6.39''	1' 5.58''	1' 6.44''	1' 5.53''	1' 6.49''	1' 5.48''	1' 6.56''	1' 5.42''	1' 6.63''	1' 5.35''	1' 6.71''	1' 5.27''
1' 2.81''	1' 3.2''	1' 2.79''	1' 3.22''	1' 2.76''	1' 3.25''	1' 2.73''	1' 3.28''	1' 2.7''	1' 3.32''	1' 2.66''	1' 3.35''	1' 2.62''	1' 3.4''	1' 2.58''	1' 3.45''	1' 2.53''
1' 1.84''	1' 2.17''	1' 1.82''	1' 2.19''	1' 1.8''	1' 2.21''	1' 1.77''	1' 2.24''	1' 1.75''	1' 2.26''	1' 1.72''	1' 2.3''	1' 1.68''	1' 2.34''	1' 1.64''	1' 2.38''	1' 1.6''

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3	9	10	11	13	14	16	18	20
.21''	22' 7.42''	20' 2.2''	18' 0.18''	16' 0.99''	14' 4.32''	12' 9.94''	11' 5.52''	10' 2.91''

3	9		10		11		13		14		16		18		20	
Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	22' 5.89''	Infinity	20' 0.67''	Infinity	17' 10.64''	Infinity	15' 11.45''	Infinity	14' 2.79''	Infinity	12' 8.39''	Infinity	11' 3.99''	Infinity	10' 1.38''	Infinity
Infinity	19' 0.05''	Infinity	17' 2.91''	Infinity	15' 7.44''	Infinity	14' 1.58''	Infinity	12' 9.22''	Infinity	11' 6.3''	Infinity	10' 4.7''	Infinity	9' 4.35''	Infinity
Infinity	16' 5.44''	Infinity	15' 1.45''	Infinity	13' 10.36''	Infinity	12' 8.18''	Infinity	11' 6.93''	Infinity	10' 6.59''	Infinity	9' 7.14''	Infinity	8' 8.57''	Infinity
Infinity	14' 6.07''	Infinity	13' 5.57''	Infinity	12' 5.54''	Infinity	11' 6.03''	Infinity	10' 7.07''	Infinity	9' 8.71''	Infinity	8' 10.95''	Infinity	8' 1.8''	Infinity
Infinity	12' 11.65''	Infinity	12' 1.61''	Infinity	11' 3.81''	Infinity	10' 6.28''	Infinity	9' 9.08''	Infinity	9' 0.26''	Infinity	8' 3.84''	Infinity	7' 7.85''	Infinity
1766' 4.01''	11' 11.5''	Infinity	11' 2.95''	Infinity	10' 6.51''	Infinity	9' 10.23''	Infinity	9' 2.15''	Infinity	8' 6.33''	Infinity	7' 10.8''	Infinity	7' 3.59''	Infinity
92' 11.61''	10' 8.46''	169' 1.27''	10' 1.6''	Infinity	9' 6.73''	Infinity	8' 11.91''	Infinity	8' 5.17''	Infinity	7' 10.56''	Infinity	7' 4.12''	Infinity	6' 9.89''	Infinity
36' 0.6''	9' 1.35''	43' 7.2''	8' 8.38''	57' 0.39''	8' 3.32''	87' 3.26''	7' 10.2''	216' 3.28''	7' 5.07''	Infinity	6' 11.94''	Infinity	6' 6.87''	Infinity	6' 1.87''	Infinity
22' 4.33''	7' 11.2''	25' 0.33''	7' 7.43''	28' 10.83''	7' 3.56''	34' 11.98''	6' 11.59''	45' 10.61''	6' 7.55''	70' 7.12''	6' 3.47''	179' 2.96''	5' 11.37''	Infinity	5' 7.28''	Infinity
19' 0.83''	7' 5.9''	20' 11.61''	7' 2.55''	23' 7.32''	6' 11.08''	27' 6.11''	6' 7.51''	33' 9.43''	6' 3.86''	45' 5.5''	6' 0.15''	74' 4.62''	5' 8.41''	262' 4.89''	5' 4.66''	Infinity
16' 2.48''	7' 0.28''	17' 6.62''	6' 9.34''	19' 4.28''	6' 6.28''	21' 10.67''	6' 3.12''	25' 7.99''	5' 11.87''	31' 10.21''	5' 8.54''	43' 8.47''	5' 5.17''	75' 2.86''	5' 1.77''	401' 8.67''
13' 8.34''	6' 6.3''	14' 7.64''	6' 3.77''	15' 10.37''	6' 1.12''	17' 6.18''	5' 10.37''	19' 10.06''	5' 7.52''	23' 3.83''	5' 4.59''	29' 0.7''	5' 1.61''	40' 2.37''	4' 10.58''	70' 8.96''
12' 6.6''	6' 3.16''	13' 4.01''	6' 0.83''	14' 4.1''	5' 10.39''	15' 8.08''	5' 7.84''	17' 6.02''	5' 5.2''	20' 1.75''	5' 2.48''	24' 3.28''	4' 11.69''	31' 6.65''	4' 8.85''	47' 7.84''
11' 5.66''	5' 11.91''	12' 1.45''	5' 9.79''	12' 11.33''	5' 7.55''	14' 0.18''	5' 5.21''	15' 5.44''	5' 2.77''	17' 5.65''	5' 0.25''	20' 5.76''	4' 9.66''	25' 4.9''	4' 7.02''	34' 10.26''
10' 5.45''	5' 8.56''	10' 11.85''	5' 6.63''	11' 7.89''	5' 4.6''	12' 6.18''	5' 2.46''	13' 7.73''	5' 0.23''	15' 2.23''	4' 9.92''	17' 4.78''	4' 7.53''	20' 9.76''	4' 5.08''	26' 8.67''
9' 5.89''	5' 5.09''	9' 11.13''	5' 3.36''	10' 5.61''	5' 1.53''	11' 1.81''	4' 11.59''	12' 0.4''	4' 9.57''	13' 2.53''	4' 7.46''	14' 10.15''	4' 5.28''	17' 2.99''	4' 3.03''	21' 1.16''
8' 6.96''	5' 1.5''	8' 11.19''	4' 11.96''	9' 4.38''	4' 10.32''	9' 10.86''	4' 8.59''	10' 7.1''	4' 6.77''	11' 5.85''	4' 4.87''	12' 8.36''	4' 2.89''	14' 4.84''	4' 0.85''	16' 11.69''
7' 8.58''	4' 9.78''	7' 11.97''	4' 8.43''	8' 4.08''	4' 6.98''	8' 9.15''	4' 5.45''	9' 3.51''	4' 3.84''	9' 11.64''	4' 2.14''	10' 10.35''	4' 0.37''	12' 0.95''	3' 10.53''	13' 9.88''
6' 10.73''	4' 5.93''	7' 1.41''	4' 4.75''	7' 4.62''	4' 3.5''	7' 8.54''	4' 2.16''	8' 1.39''	4' 0.75''	8' 7.49''	3' 11.26''	9' 3.34''	3' 9.69''	10' 1.73''	3' 8.06''	11' 4.04''
6' 1.37''	4' 1.93''	6' 3.44''	4' 0.93''	6' 5.92''	3' 11.86''	6' 8.9''	3' 10.71''	7' 0.55''	3' 9.5''	7' 5.06''	3' 8.2''	7' 10.76''	3' 6.84''	8' 6.11''	3' 5.42''	9' 3.89''
5' 4.45''	3' 9.78''	5' 6.03''	3' 8.95''	5' 7.89''	3' 8.05''	5' 10.12''	3' 7.09''	6' 0.81''	3' 6.06''	6' 4.1''	3' 4.97''	6' 8.17''	3' 3.81''	7' 1.31''	3' 2.59''	7' 7.94''
4' 7.95''	3' 5.47''	4' 9.12''	3' 4.8''	4' 10.49''	3' 4.07''	5' 0.11''	3' 3.28''	5' 2.05''	3' 2.44''	5' 4.39''	3' 1.53''	5' 7.23''	3' 0.57''	5' 10.76''	2' 11.55''	6' 3.19''
3' 11.84''	3' 1''	4' 0.68''	3' 0.47''	4' 1.65''	2' 11.9''	4' 2.79''	2' 11.27''	4' 4.14''	2' 10.6''	4' 5.75''	2' 9.88''	4' 7.68''	2' 9.11''	4' 10.03''	2' 8.29''	5' 0.93''
3' 4.09''	2' 8.34''	3' 4.66''	2' 7.95''	3' 5.32''	2' 7.52''	3' 6.09''	2' 7.05''	3' 6.99''	2' 6.54''	3' 8.05''	2' 5.99''	3' 9.31''	2' 5.4''	3' 10.81''	2' 4.76''	4' 0.63''
2' 8.68''	2' 3.5''	2' 9.05''	2' 3.22''	2' 9.47''	2' 2.92''	2' 9.95''	2' 2.59''	2' 10.52''	2' 2.23''	2' 11.17''	2' 1.83''	2' 11.94''	2' 1.41''	3' 0.85''	2' 0.95''	3' 1.92''
2' 1.59''	1' 10.45''	2' 1.8''	1' 10.28''	2' 2.05''	1' 10.08''	2' 2.32''	1' 9.87''	2' 2.64''	1' 9.64''	2' 3.01''	1' 9.38''	2' 3.44''	1' 9.11''	2' 3.93''	1' 8.8''	2' 4.51''
1' 10.16''	1' 7.85''	1' 10.31''	1' 7.72''	1' 10.49''	1' 7.57''	1' 10.68''	1' 7.41''	1' 10.91''	1' 7.23''	1' 11.17''	1' 7.04''	1' 11.47''	1' 6.83''	1' 11.82''	1' 6.6''	2' 0.22''
1' 6.8''	1' 5.19''	1' 6.9''	1' 5.1''	1' 7.02''	1' 4.99''	1' 7.15''	1' 4.88''	1' 7.31''	1' 4.75''	1' 7.48''	1' 4.61''	1' 7.68''	1' 4.46''	1' 7.91''	1' 4.29''	1' 8.18''
1' 3.51''	1' 2.47''	1' 3.57''	1' 2.41''	1' 3.65''	1' 2.34''	1' 3.73''	1' 2.27''	1' 3.83''	1' 2.18''	1' 3.93''	1' 2.09''	1' 4.06''	1' 1.99''	1' 4.2''	1' 1.88''	1' 4.36''
1' 2.43''	1' 1.56''	1' 2.48''	1' 1.5''	1' 2.54''	1' 1.45''	1' 2.61''	1' 1.38''	1' 2.69''	1' 1.31''	1' 2.78''	1' 1.23''	1' 2.88''	1' 1.14''	1' 3''	1' 1.05''	1' 3.13''

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22
9' 1.92''

22	
Short Focus (ft-inch)	**Long Focus (ft-inch)**
9' 0.37''	Infinity
8' 5.15''	Infinity
7' 10.83''	Infinity
7' 5.26''	Infinity
7' 0.31''	Infinity
6' 8.72''	Infinity
6' 3.88''	Infinity
5' 8.98''	Infinity
5' 3.24''	Infinity
5' 0.93''	Infinity
4' 10.37''	Infinity
4' 7.52''	492' 9.51''
4' 5.97''	112' 1.49''
4' 4.33''	59' 11.92''
4' 2.59''	39' 3.49''
4' 0.73''	28' 2.15''
3' 10.75''	21' 2.96''
3' 8.63''	16' 6.11''
3' 6.36''	13' 0.8''
3' 3.93''	10' 5.42''
3' 1.31''	8' 4.78''
2' 10.48''	6' 8.91''
2' 7.41''	5' 4.55''
2' 4.08''	4' 2.86''
2' 0.45''	3' 3.21''
1' 8.48''	2' 5.2''
1' 6.34''	2' 0.7''
1' 4.1''	1' 8.49''
1' 1.75''	1' 4.55''
1' 0.94''	1' 3.29''

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Focal Length 50 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	231' 10.52''	219' 1.53''	195' 3.11''	173' 11.95''	155' 0.63''	138' 2.07''	123' 1.64''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	231' 8.28''	Infinity	218' 11.34''	Infinity	195' 0.96''	Infinity	173' 9.81''	Infinity	154' 10.51''	Infinity	138'	Infinity	122' 11.58''	Infinity
120' 0''	79' 2.15''	248' 1.57''	77' 7.7''	264' 7.29''	74' 5.13''	310' 5.63''	71' 1.48''	385' 5.74''	67' 8.98''	528' 11.53''	64' 3.87''	908' 8.9''	60' 10.43''	4687' 11.83''
60' 0''	47' 8.97''	80' 9.07''	47' 2.24''	82' 5.02''	45' 11.82''	86' 4.49''	44' 8.49''	91' 3.53''	43' 4.28''	97' 6.37''	41' 11.2''	105' 7.61''	40' 5.34''	116' 6.02''
40' 0''	34' 2.15''	48' 2.71''	33' 10.71''	48' 9.73''	33' 3.25''	50' 1.98''	32' 7.2''	51' 9.34''	31' 10.54''	53' 8.62''	31' 1.28''	56' 0.92''	30' 3.4''	58' 11.81''
30' 0''	26' 7.39''	34' 4.53''	26' 5.31''	34' 8.07''	26' 0.77''	35' 4.17''	25' 7.83''	36' 1.65''	25' 2.47''	37' 0.8''	24' 8.67''	38' 2.03''	24' 2.43''	39' 5.86''
25' 0''	22' 7.36''	27' 11.47''	22' 5.86''	28' 1.8''	22' 2.58''	28' 7.1''	21' 11''	29' 1.25''	21' 7.09''	29' 8.42''	21' 2.84''	30' 4.83''	20' 10.23''	31' 2.77''
20' 0''	18' 5.41''	21' 10.04''	18' 4.41''	21' 11.45''	18' 2.23''	22' 2.65''	17' 11.84''	22' 6.33''	17' 9.21''	22' 10.58''	17' 6.34''	23' 3.52''	17' 3.21''	23' 9.28''
15' 0''	14' 1.43''	16'	14' 0.85''	16' 0.75''	13' 11.58''	16' 2.44''	13' 10.18''	16' 4.37''	13' 8.63''	16' 6.58''	13' 6.93''	16' 9.13''	13' 5.06''	17' 0.07''
12' 0''	11' 5.21''	12' 7.51''	11' 4.84''	12' 7.97''	11' 4.01''	12' 9.01''	11' 3.09''	12' 10.19''	11' 2.08''	12' 11.54''	11' 0.96''	13' 1.08''	10' 11.72''	13' 2.85''
11' 0''	10' 6.3''	11' 6.25''	10' 5.98''	11' 6.63''	10' 5.28''	11' 7.49''	10' 4.51''	11' 8.47''	10' 3.65''	11' 9.59''	10' 2.7''	11' 10.86''	10' 1.65''	12' 0.31''
10' 0''	9' 7.29''	10' 5.12''	9' 7.03''	10' 5.43''	9' 6.45''	10' 6.13''	9' 5.8''	10' 6.92''	9' 5.09''	10' 7.83''	9' 4.3''	10' 8.86''	9' 3.43''	10' 10.04''
9' 0''	8' 8.19''	9' 4.1''	8' 7.98''	9' 4.35''	8' 7.51''	9' 4.91''	8' 6.99''	9' 5.54''	8' 6.4''	9' 6.26''	8' 5.76''	9' 7.08''	8' 5.05''	9' 8.01''
8' 6''	8' 2.61''	8' 9.64''	8' 2.42''	8' 9.86''	8' 2''	8' 10.35''	8' 1.53''	8' 10.91''	8' 1.01''	8' 11.54''	8' 0.44''	9' 0.26''	7' 11.8''	9' 1.09''
8' 0''	7' 9''	8' 3.2''	7' 8.84''	8' 3.39''	7' 8.46''	8' 3.83''	7' 8.05''	8' 4.32''	7' 7.59''	8' 4.87''	7' 7.07''	8' 5.5''	7' 6.51''	8' 6.22''
7' 6''	7' 3.37''	7' 8.79''	7' 3.23''	7' 8.96''	7' 2.9''	7' 9.34''	7' 2.53''	7' 9.76''	7' 2.13''	7' 10.25''	7' 1.68''	7' 10.8''	7' 1.18''	7' 11.42''
7' 0''	6' 9.72''	7' 2.41''	6' 9.59''	7' 2.56''	6' 9.31''	7' 2.88''	6' 8.99''	7' 3.25''	6' 8.63''	7' 3.67''	6' 8.24''	7' 4.14''	6' 7.8''	7' 4.68''
6' 6''	6' 4.04''	6' 8.06''	6' 3.93''	6' 8.19''	6' 3.69''	6' 8.47''	6' 3.41''	6' 8.78''	6' 3.11''	6' 9.13''	6' 2.77''	6' 9.53''	6' 2.39''	6' 9.99''
6' 0''	5' 10.34''	6' 1.74''	5' 10.25''	6' 1.85''	5' 10.04''	6' 2.08''	5' 9.8''	6' 2.34''	5' 9.55''	6' 2.64''	5' 9.26''	6' 2.98''	5' 8.94''	6' 3.36''
5' 6''	5' 4.61''	5' 7.45''	5' 4.54''	5' 7.53''	5' 4.36''	5' 7.73''	5' 4.17''	5' 7.95''	5' 3.95''	5' 8.19''	5' 3.71''	5' 8.47''	5' 3.44''	5' 8.79''
5' 0''	4' 10.86''	5' 1.18''	4' 10.8''	5' 1.25''	4' 10.66''	5' 1.41''	4' 10.5''	5' 1.59''	4' 10.32''	5' 1.79''	4' 10.12''	5' 2.01''	4' 9.9''	5' 2.27''
4' 6''	4' 5.09''	4' 6.94''	4' 5.04''	4' 7''	4' 4.92''	4' 7.12''	1.341	4' 7.26''	4' 4.65''	4' 7.42''	4' 4.49''	4' 7.6''	4' 4.31''	4' 7.81''
4' 0''	3' 11.29''	4' 0.73''	3' 11.25''	4' 0.77''	3' 11.16''	4' 0.87''	3' 11.06''	4' 0.98''	3' 10.95''	4' 1.1''	3' 10.82''	4' 1.24''	3' 10.68''	4' 1.4''
3' 6''	3' 5.47''	3' 6.55''	3' 5.44''	3' 6.58''	3' 5.37''	3' 6.65''	3' 5.29''	3' 6.73''	3' 5.21''	3' 6.82''	3' 5.11''	3' 6.93''	3' 5.01''	3' 7.04''
3' 0''	2' 11.62''	3' 0.39''	2' 11.6''	3' 0.41''	2' 11.55''	3' 0.46''	2' 11.49''	3' 0.52''	2' 11.43''	3' 0.59''	2' 11.36''	3' 0.66''	2' 11.29''	3' 0.74''
2' 6''	2' 5.75''	2' 6.26''	2' 5.73''	2' 6.27''	2' 5.7''	2' 6.31''	2' 5.66''	2' 6.35''	2' 5.62''	2' 6.39''	2' 5.58''	2' 6.44''	2' 5.52''	2' 6.49''
2' 0''	1' 11.85''	2' 0.16''	1' 11.84''	2' 0.16''	1' 11.82''	2' 0.18''	1' 11.8''	2' 0.21''	1' 11.77''	2' 0.23''	1' 11.74''	2' 0.26''	1' 11.71''	2' 0.29''
1' 9''	1' 8.89''	1' 9.11''	1' 8.88''	1' 9.12''	1' 8.87''	1' 9.13''	1' 8.85''	1' 9.15''	1' 8.83''	1' 9.17''	1' 8.81''	1' 9.19''	1' 8.79''	1' 9.22''
1' 8''	1' 7.9''	1' 8.1''	1' 7.89''	1' 8.11''	1' 7.88''	1' 8.12''	1' 7.87''	1' 8.13''	1' 7.85''	1' 8.15''	1' 7.83''	1' 8.17''	1' 7.81''	1' 8.19''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
109' 8.93''	97' 9.7''	87' 2.1''	77' 8.44''	69' 3.18''	61' 8.98''	55' 0.59''	49' 0.98''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
109' 6.84''	Infinity	97' 7.64''	Infinity	87' 0.06''	Infinity	77' 6.4''	Infinity	69' 1.14''	Infinity	61' 6.93''	Infinity	54' 10.56''	Infinity	48' 10.96''	Infinity
57' 4.93''	Infinity	53' 11.64''	Infinity	50' 6.84''	Infinity	47' 2.78''	Infinity	43' 11.7''	Infinity	40' 9.81''	Infinity	37' 9.31''	Infinity	34' 10.34''	Infinity
38' 10.74''	131' 8.6''	37' 3.5''	154' 4.25''	35' 7.72''	191' 3.22''	33' 11.51''	261' 6''	32' 2.99''	445' 0.25''	30' 6.31''	2101' 6.29''	28' 9.59''	Infinity	27' 0.97''	Infinity
29' 4.92''	62' 7.56''	28' 5.85''	67' 3.62''	27' 6.24''	73' 5.46''	26' 6.11''	81' 10.31''	25' 5.53''	93' 11.16''	24' 4.54''	112' 6.88''	23' 3.24''	144' 10.46''	22' 1.68''	213' 9.24''
23' 7.72''	41' 0.99''	23' 0.56''	43' 0.39''	22' 4.94''	45' 5.47''	21' 8.88''	48' 6.3''	21' 0.39''	52' 6.08''	20' 3.51''	57' 10.03''	19' 6.26''	65' 3.35''	18' 8.68''	76' 3.73''
20' 5.26''	32' 2.58''	19' 11.9''	33' 4.78''	19' 6.17''	34' 10.01''	19' 0.06''	36' 7.22''	18' 5.57''	38' 9.76''	17' 10.72''	41' 7.67''	17' 3.52''	45' 4.18''	16' 7.99''	50' 4.68''
16' 11.81''	24' 4.04''	16' 8.12''	25' 0.02''	16' 4.13''	25' 9.52''	15' 11.85''	26' 8.93''	15' 7.26''	27' 10.79''	15' 2.37''	29' 3.86''	14' 9.18''	31' 1.24''	14' 3.69''	33' 4.58''
13' 3.01''	17' 3.47''	13' 0.78''	17' 7.43''	12' 10.35''	18' 0.06''	12' 7.71''	18' 5.51''	12' 4.85''	18' 11.96''	12' 1.77''	19' 7.68''	11' 10.46''	20' 4.99''	11' 6.93''	21' 4.37''
10' 10.36''	13' 4.88''	10' 8.87''	13' 7.23''	10' 7.24''	13' 9.95''	10' 5.45''	14' 1.12''	10' 3.51''	14' 4.82''	10' 1.4''	14' 9.17''	9' 11.12''	15' 2.34''	9' 8.66''	15' 8.51''
10' 0.5''	12' 1.98''	9' 11.23''	12' 3.91''	9' 9.83''	12' 6.13''	9' 8.31''	12' 8.7''	9' 6.64''	12' 11.7''	9' 4.83''	13' 3.21''	9' 2.86''	13' 7.35''	9' 0.74''	14' 0.26''
9' 2.46''	10' 11.38''	9' 1.4''	11' 0.93''	9' 0.23''	11' 2.71''	8' 10.95''	11' 4.77''	8' 9.55''	11' 7.16''	8' 8.02''	11' 9.94''	8' 6.35''	12' 1.2''	8' 4.55''	12' 5.05''
8' 4.26''	9' 9.07''	8' 3.39''	9' 10.29''	8' 2.43''	9' 11.69''	8' 1.37''	10' 1.3''	8' 0.21''	10' 3.17''	7' 10.95''	10' 5.33''	7' 9.57''	10' 7.85''	7' 8.07''	10' 10.8''
7' 11.09''	9' 2.02''	7' 10.31''	9' 3.09''	7' 9.45''	9' 4.32''	7' 8.5''	9' 5.74''	7' 7.46''	9' 7.37''	7' 6.32''	9' 9.25''	7' 5.07''	9' 11.45''	7' 3.72''	10' 2.01''
7' 5.88''	8' 7.04''	7' 5.18''	8' 7.98''	7' 4.41''	8' 9.05''	7' 3.57''	8' 10.28''	7' 2.64''	8' 11.7''	7' 1.62''	9' 1.33''	7' 0.51''	9' 3.23''	6' 11.29''	9' 5.44''
7' 0.62''	8' 0.13''	7' 0.01''	8' 0.94''	6' 11.33''	8' 1.87''	6' 10.58''	8' 2.93''	6' 9.76''	8' 4.15''	6' 8.85''	8' 5.55''	6' 7.86''	8' 7.18''	6' 6.78''	8' 9.07''
6' 7.32''	7' 5.29''	6' 6.78''	7' 5.98''	6' 6.19''	7' 6.77''	6' 5.53''	7' 7.68''	6' 4.81''	7' 8.72''	6' 4.02''	7' 9.92''	6' 3.15''	7' 11.3''	6' 2.19''	8' 0.9''
6' 1.97''	6' 10.51''	6' 1.51''	6' 11.1''	6' 0.99''	6' 11.77''	6' 0.43''	7' 0.53''	5' 11.8''	7' 1.41''	5' 11.11''	7' 2.42''	5' 10.35''	7' 3.58''	5' 9.52''	7' 4.93''
5' 8.58''	6' 3.79''	5' 8.18''	6' 4.29''	5' 7.74''	6' 4.85''	5' 7.26''	6' 5.49''	5' 6.72''	6' 6.22''	5' 6.13''	6' 7.06''	5' 5.48''	6' 8.02''	5' 4.76''	6' 9.14''
5' 3.14''	5' 9.15''	5' 2.8''	5' 9.55''	5' 2.43''	5' 10.01''	5' 2.03''	5' 10.54''	5' 1.57''	5' 11.14''	5' 1.07''	5' 11.83''	5' 0.52''	6' 0.62''	4' 11.91''	6' 1.52''
4' 9.65''	5' 2.56''	4' 9.37''	5' 2.89''	4' 9.07''	5' 3.26''	4' 8.73''	5' 3.69''	4' 8.35''	5' 4.17''	4' 7.94''	5' 4.72''	4' 7.48''	5' 5.36''	4' 6.98''	5' 6.08''
4' 4.11''	4' 8.04''	4' 3.89''	4' 8.3''	4' 3.64''	4' 8.59''	4' 3.37''	4' 8.93''	4' 3.07''	4' 9.31''	4' 2.73''	4' 9.74''	4' 2.36''	4' 10.24''	4' 1.94''	4' 10.81''
3' 10.53''	4' 1.58''	3' 10.35''	4' 1.78''	3' 10.16''	4' 2''	3' 9.94''	4' 2.26''	3' 9.7''	4' 2.55''	3' 9.44''	4' 2.89''	3' 9.14''	4' 3.26''	3' 8.82''	4' 3.7''
3' 4.89''	3' 7.18''	3' 4.76''	3' 7.32''	3' 4.61''	3' 7.49''	3' 4.45''	3' 7.68''	3' 4.27''	3' 7.9''	3' 4.06''	3' 8.14''	3' 3.84''	3' 8.42''	3' 3.59''	3' 8.74''
2' 11.2''	3' 0.84''	2' 11.11''	3' 0.94''	2' 11''	3' 1.06''	2' 10.88''	3' 1.19''	2' 10.75''	3' 1.35''	2' 10.61''	3' 1.52''	2' 10.44''	3' 1.71''	2' 10.26''	3' 1.94''
2' 5.47''	2' 6.55''	2' 5.4''	2' 6.62''	2' 5.33''	2' 6.7''	2' 5.25''	2' 6.79''	2' 5.16''	2' 6.89''	2' 5.06''	2' 7''	2' 4.95''	2' 7.13''	2' 4.83''	2' 7.28''
1' 11.68''	2' 0.33''	1' 11.64''	2' 0.37''	1' 11.6''	2' 0.42''	1' 11.55''	2' 0.47''	1' 11.49''	2' 0.53''	1' 11.43''	2' 0.6''	1' 11.37''	2' 0.67''	1' 11.29''	2' 0.76''
1' 8.76''	1' 9.24''	1' 8.74''	1' 9.27''	1' 8.7''	1' 9.31''	1' 8.67''	1' 9.34''	1' 8.63''	1' 9.39''	1' 8.58''	1' 9.44''	1' 8.53''	1' 9.49''	1' 8.48''	1' 9.55''
1' 7.79''	1' 8.22''	1' 7.76''	1' 8.24''	1' 7.74''	1' 8.27''	1' 7.7''	1' 8.31''	1' 7.67''	1' 8.34''	1' 7.63''	1' 8.39''	1' 7.58''	1' 8.44''	1' 7.54''	1' 8.49''

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8	9	10	11	13	14	16	18
43' 9.2''	39' 0.35''	34' 9.72''	31' 0.64''	27' 8.44''	24' 8.65''	22' 0.72''	19' 8.34''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
43' 7.17''	Infinity	38' 10.33''	Infinity	34' 7.7''	Infinity	30' 10.6''	Infinity	27' 6.41''	Infinity	24' 6.61''	Infinity	21' 10.71''	Infinity	19' 6.3''	Infinity
32' 1.03''	Infinity	29' 5.47''	Infinity	26' 11.72''	Infinity	24' 7.81''	Infinity	22' 5.74''	Infinity	20' 5.49''	Infinity	18' 7.03''	Infinity	16' 10.29''	Infinity
25' 4.6''	Infinity	23' 8.59''	Infinity	22' 1.06''	Infinity	20' 6.13''	Infinity	18' 11.89''	Infinity	17' 6.41''	Infinity	16' 1.76''	Infinity	14' 9.98''	Infinity
20' 11.96''	459' 0.36''	19' 10.17''	Infinity	18' 8.4''	Infinity	17' 6.74''	Infinity	16' 5.28''	Infinity	15' 4.1''	Infinity	14' 3.28''	Infinity	13' 2.89''	Infinity
17' 10.84''	94' 2.33''	17' 0.77''	127' 10.33''	16' 2.55''	213' 8.22''	15' 4.25''	869' 11.77''	14' 5.92''	Infinity	13' 7.64''	Infinity	12' 9.47''	Infinity	11' 11.49''	Infinity
16' 0.18''	57' 6.98''	15' 4.12''	68' 6.96''	14' 7.84''	87' 3.87''	13' 11.41''	126' 0.38''	13' 2.87''	251' 2.36''	12' 6.28''	Infinity	11' 9.69''	Infinity	11' 1.17''	Infinity
13' 9.93''	36' 4.5''	13' 3.92''	40' 5.4''	12' 9.67''	46' 3.31''	12' 3.23''	55' 2.55''	11' 8.61''	70' 6.25''	11' 1.88''	102' 5.5''	10' 7.05''	208' 9.24''	10' 0.19''	Infinity
11' 3.17''	22' 6.48''	10' 11.18''	24' 0.31''	10' 6.99''	25' 11.38''	10' 2.59''	28' 6.14''	9' 10.01''	32' 0.89''	9' 5.27''	37' 3.78''	9' 0.39''	45' 8.58''	8' 7.4''	61' 2.53''
9' 6.02''	16' 3.95''	9' 3.2''	17' 1.06''	9' 0.2''	18' 0.35''	8' 9.02''	19' 2.62''	8' 5.67''	20' 9.1''	8' 2.16''	22' 9.75''	7' 10.51''	25' 8.03''	7' 6.73''	29' 10.51''
8' 10.45''	14' 6.14''	8' 8''	15' 1.26''	8' 5.38''	15' 9.99''	8' 2.6''	16' 8.87''	7' 11.65''	17' 10.67''	7' 8.55''	19' 4.65''	7' 5.31''	21' 4.84''	7' 1.94''	24' 2.84''
8' 2.6''	12' 9.63''	8' 0.5''	13' 3.11''	7' 10.25''	13' 9.76''	7' 7.85''	14' 5.93''	7' 5.3''	15' 4.14''	7' 2.61''	16' 5.14''	6' 11.78''	17' 10.14''	6' 8.82''	19' 9.13''
7' 6.44''	11' 2.29''	7' 4.68''	11' 6.43''	7' 2.79''	11' 11.41''	7' 0.77''	12' 5.45''	6' 10.6''	13' 0.87''	6' 8.31''	13' 10.14''	6' 5.88''	14' 9.97''	6' 3.33''	16' 1.47''
7' 2.24''	10' 5.03''	7' 0.65''	10' 8.6''	6' 10.93''	11' 0.87''	6' 9.09''	11' 6.02''	6' 7.11''	12' 0.3''	6' 5.01''	12' 8.08''	6' 2.79''	13' 5.89''	6' 0.44''	14' 6.56''
6' 9.97''	9' 8.03''	6' 8.53''	9' 11.09''	6' 6.98''	10' 2.72''	6' 5.31''	10' 7.08''	6' 3.52''	11' 0.37''	6' 1.61''	11' 6.85''	5' 11.59''	12' 2.96''	5' 9.44''	13' 1.27''
6' 5.6''	8' 11.28''	6' 4.32''	9' 1.88''	6' 2.93''	9' 4.95''	6' 1.44''	9' 8.61''	5' 11.83''	10' 1.02''	5' 10.11''	10' 6.4''	5' 8.27''	11' 1.04''	5' 6.33''	11' 9.4''
6' 1.15''	8' 2.77''	6' 0.02''	8' 4.95''	5' 10.79''	8' 7.53''	5' 9.46''	8' 10.58''	5' 8.02''	9' 2.23''	5' 6.49''	9' 6.65''	5' 4.84''	10' 0.06''	5' 3.1''	10' 6.78''
5' 8.61''	7' 6.49''	5' 7.62''	7' 8.3''	5' 6.54''	7' 10.44''	5' 5.37''	8' 0.95''	5' 4.11''	8' 3.95''	5' 2.75''	8' 7.54''	5' 1.29''	8' 11.9''	4' 11.74''	9' 5.27''
5' 3.98''	6' 10.42''	5' 3.12''	6' 11.92''	5' 2.18''	7' 1.66''	5' 1.17''	7' 3.71''	5' 0.07''	7' 6.13''	4' 10.88''	7' 9.03''	4' 9.61''	8' 0.5''	4' 8.24''	8' 4.74''
4' 11.25''	6' 2.57''	4' 10.52''	6' 3.78''	4' 9.72''	6' 5.19''	4' 8.85''	6' 6.83''	4' 7.91''	6' 8.77''	4' 6.89''	6' 11.06''	4' 5.79''	7' 1.8''	4' 4.61''	7' 5.1''
4' 6.42''	5' 6.92''	4' 5.81''	5' 7.88''	4' 5.14''	5' 8.99''	4' 4.41''	5' 10.29''	4' 3.62''	5' 11.81''	4' 2.76''	6' 1.6''	4' 1.82''	6' 3.71''	4' 0.82''	6' 6.25''
4' 1.49''	4' 11.46''	4' 0.99''	5' 0.21''	4' 0.45''	5' 1.07''	3' 11.85''	5' 2.07''	3' 11.19''	5' 3.24''	3' 10.48''	5' 4.6''	3' 9.71''	5' 6.21''	3' 8.87''	5' 8.11''
3' 8.46''	4' 4.19''	3' 8.06''	4' 4.76''	3' 7.63''	4' 5.41''	3' 7.15''	4' 6.16''	3' 6.62''	4' 7.03''	3' 6.05''	4' 8.04''	3' 5.43''	4' 9.23''	3' 4.75''	4' 10.62''
3' 3.32''	3' 9.1''	3' 3.01''	3' 9.52''	3' 2.68''	3' 9.99''	3' 2.31''	3' 10.53''	3' 1.9''	3' 11.16''	3' 1.46''	3' 11.89''	3' 0.97''	4' 0.73''	3' 0.44''	4' 1.71''
2' 10.06''	3' 2.19''	2' 9.84''	3' 2.48''	2' 9.6''	3' 2.8''	2' 9.32''	3' 3.18''	2' 9.03''	3' 3.61''	2' 8.7''	3' 4.11''	2' 8.34''	3' 4.68''	2' 7.94''	3' 5.34''
2' 4.69''	2' 7.44''	2' 4.54''	2' 7.63''	2' 4.38''	2' 7.84''	2' 4.19''	2' 8.08''	2' 3.98''	2' 8.36''	2' 3.76''	2' 8.68''	2' 3.51''	2' 9.04''	2' 3.23''	2' 9.46''
1' 11.21''	2' 0.86''	1' 11.11''	2' 0.96''	1' 11.01''	2' 1.09''	1' 10.9''	2' 1.23''	1' 10.77''	2' 1.39''	1' 10.63''	2' 1.57''	1' 10.47''	2' 1.78''	1' 10.3''	2' 2.02''
1' 8.42''	1' 9.62''	1' 8.35''	1' 9.7''	1' 8.27''	1' 9.79''	1' 8.19''	1' 9.89''	1' 8.09''	1' 10.01''	1' 7.99''	1' 10.14''	1' 7.87''	1' 10.29''	1' 7.74''	1' 10.46''
1' 7.48''	1' 8.55''	1' 7.42''	1' 8.62''	1' 7.35''	1' 8.7''	1' 7.27''	1' 8.79''	1' 7.19''	1' 8.89''	1' 7.09''	1' 9.01''	1' 6.99''	1' 9.14''	1' 6.87''	1' 9.29''

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20	22
17' 7.02''	15' 8.46''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
17' 4.98''	Infinity	15' 6.43''	Infinity
15' 3.22''	Infinity	13' 9.72''	Infinity
13' 7.11''	Infinity	12' 5.15''	Infinity
12' 2.97''	Infinity	11' 3.59''	Infinity
11' 1.74''	Infinity	10' 4.29''	Infinity
10' 4.76''	Infinity	9' 8.52''	Infinity
9' 5.34''	Infinity	8' 10.53''	Infinity
8' 2.33''	98' 11.29''	7' 9.22''	322' 10.93''
7' 2.84''	36' 7.56''	6' 10.85''	49' 1.51''
6' 10.45''	28' 5.74''	6' 6.87''	35' 5.53''
6' 5.74''	22' 5.72''	6' 2.57''	26' 7.05''
6' 0.67''	17' 10.48''	5' 9.9''	20' 4.32''
5' 9.98''	15' 11.42''	5' 7.42''	17' 10.74''
5' 7.19''	14' 2.76''	5' 4.84''	15' 9''
5' 4.28''	12' 8.16''	5' 2.13''	13' 10.4''
5' 1.25''	11' 3.31''	4' 11.31''	12' 2.39''
4' 10.09''	9' 11.98''	4' 8.35''	10' 8.55''
4' 6.79''	8' 9.98''	4' 5.25''	9' 4.56''
4' 3.34''	7' 9.13''	4' 2''	8' 2.13''
3' 11.74''	6' 9.31''	3' 10.59''	7' 1.05''
3' 7.97''	5' 10.39''	3' 7''	6' 1.13''
3' 4.01''	5' 0.27''	3' 3.22''	5' 2.24''
2' 11.87''	4' 2.87''	2' 11.24''	4' 4.24''
2' 7.51''	3' 6.12''	2' 7.04''	3' 7.02''
2' 2.93''	2' 9.94''	2' 2.6''	2' 10.5''
1' 10.11''	2' 2.29''	1' 9.9''	2' 2.61''
1' 7.6''	1' 10.65''	1' 7.44''	1' 10.87''
1' 6.75''	1' 9.46''	1' 6.6''	1' 9.66''

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Focal Length 75 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	500' 9.49''	473' 2.94''	421' 8.04''	375' 8.62''	334' 9.4''	298' 3.76''	265' 9.84''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	500' 5.59''	Infinity	472' 11.15''	Infinity	421' 4.39''	Infinity	375' 5.13''	Infinity	334' 6''	Infinity	298' 0.44''	Infinity	265' 6.61''	Infinity
120' 0''	96' 10.95''	157' 6.93''	95' 10.07''	160' 6.09''	93' 6.41''	167' 5.2''	91' 0.91''	175' 11.47''	88' 5.6''	186' 7.45''	85' 8.53''	200' 2.97''	82' 9.79''	218' 1.53''
60' 0''	53' 7.8''	68' 0.77''	53' 3.86''	68' 7.22''	52' 7.26''	69' 9.94''	51' 9.88''	71' 3.1''	50' 11.68''	72' 11.23''	50' 0.62''	74' 10.99''	49' 0.68''	77' 3.24''
40' 0''	37' 1.1''	43' 4.88''	36' 11.23''	43' 7.48''	36' 7.11''	44' 1.35''	36' 2.58''	44' 8.11''	35' 9.6''	45' 3.9''	35' 4.15''	46' 0.92''	34' 10.2''	46' 11.42''
30' 0''	28' 4.13''	31' 10.36''	28' 3.04''	31' 11.75''	28' 0.64''	32' 2.88''	27' 9.99''	32' 6.45''	27' 7.06''	32' 10.54''	27' 3.83''	33' 3.24''	27' 0.29''	33' 8.65''
25' 0''	23' 10.14''	26' 3.29''	23' 9.37''	26' 4.23''	23' 7.68''	26' 6.34''	23' 5.8''	26' 8.74''	23' 3.73''	26' 11.48''	23' 1.43''	27' 2.61''	22' 10.9''	27' 6.2''
20' 0''	19' 3.11''	20' 9.61''	19' 2.62''	20' 10.19''	19' 1.52''	20' 11.5''	19' 0.3''	21' 0.99''	18' 10.94''	21' 2.67''	18' 9.44''	21' 4.6''	18' 7.78''	21' 6.79''
15' 0''	14' 7.02''	15' 5.28''	14' 6.74''	15' 5.6''	14' 6.11''	15' 6.31''	14' 5.42''	15' 7.11''	14' 4.65''	15' 8.02''	14' 3.79''	15' 9.05''	14' 2.83''	15' 10.23''
12' 0''	11' 8.83''	12' 3.31''	11' 8.65''	12' 3.51''	11' 8.26''	12' 3.95''	11' 7.81''	12' 4.45''	11' 7.31''	12' 5.02''	11' 6.76''	12' 5.66''	11' 6.15''	12' 6.38''
11' 0''	10' 9.35''	11' 2.76''	10' 9.2''	11' 2.93''	10' 8.86''	11' 3.3''	10' 8.49''	11' 3.71''	10' 8.07''	11' 4.18''	10' 7.61''	11' 4.71''	10' 7.09''	11' 5.31''
10' 0''	9' 9.82''	10' 2.26''	9' 9.7''	10' 2.4''	9' 9.42''	10' 2.7''	9' 9.11''	10' 3.04''	9' 8.77''	10' 3.42''	9' 8.39''	10' 3.85''	9' 7.96''	10' 4.34''
9' 0''	8' 10.25''	9' 1.81''	8' 10.15''	9' 1.92''	8' 9.92''	9' 2.16''	8' 9.68''	9' 2.43''	8' 9.4''	9' 2.74''	8' 9.09''	9' 3.08''	8' 8.74''	9' 3.47''
8' 6''	8' 4.44''	8' 7.61''	8' 4.35''	8' 7.7''	8' 4.16''	8' 7.91''	8' 3.94''	8' 8.15''	8' 3.69''	8' 8.42''	8' 3.41''	8' 8.73''	8' 3.11''	8' 9.07''
8' 0''	7' 10.63''	8' 1.41''	7' 10.55''	8' 1.5''	7' 10.37''	8' 1.68''	7' 10.18''	8' 1.89''	7' 9.96''	8' 2.13''	7' 9.72''	8' 2.4''	7' 9.45''	8' 2.7''
7' 6''	7' 4.8''	7' 7.23''	7' 4.73''	7' 7.31''	7' 4.58''	7' 7.47''	7' 4.41''	7' 7.65''	7' 4.22''	7' 7.86''	7' 4''	7' 8.09''	7' 3.77''	7' 8.35''
7' 0''	6' 10.96''	7' 1.06''	6' 10.9''	7' 1.13''	6' 10.77''	7' 1.27''	6' 10.62''	7' 1.43''	6' 10.46''	7' 1.6''	6' 10.27''	7' 1.8''	6' 10.07''	7' 2.03''
6' 6''	6' 5.11''	6' 6.91''	6' 5.06''	6' 6.96''	6' 4.95''	6' 7.08''	6' 4.82''	6' 7.22''	6' 4.68''	6' 7.37''	6' 4.52''	6' 7.54''	6' 4.34''	6' 7.73''
6' 0''	5' 11.25''	6' 0.77''	5' 11.21''	6' 0.81''	5' 11.11''	6' 0.91''	5' 11''	6' 1.02''	5' 10.88''	6' 1.15''	5' 10.75''	6' 1.3''	5' 10.6''	6' 1.46''
5' 6''	5' 5.38''	5' 6.63''	5' 5.34''	5' 6.67''	5' 5.26''	5' 6.76''	5' 5.17''	5' 6.85''	5' 5.07''	5' 6.95''	5' 4.96''	5' 7.07''	5' 4.84''	5' 7.21''
5' 0''	4' 11.49''	5' 0.52''	4' 11.46''	5' 0.55''	4' 11.4''	5' 0.61''	4' 11.33''	5' 0.69''	4' 11.24''	5' 0.78''	4' 11.15''	5' 0.87''	4' 11.05''	5' 0.98''
4' 6''	4' 5.6''	4' 6.41''	4' 5.57''	4' 6.43''	4' 5.52''	4' 6.49''	1.358	4' 6.55''	4' 5.4''	4' 6.62''	4' 5.33''	4' 6.69''	4' 5.24''	4' 6.78''
4' 0''	3' 11.69''	4' 0.32''	3' 11.67''	4' 0.33''	3' 11.63''	4' 0.38''	3' 11.59''	4' 0.42''	3' 11.53''	4' 0.47''	3' 11.48''	4' 0.53''	3' 11.42''	4' 0.6''
3' 9''	3' 8.73''	3' 9.27''	3' 8.71''	3' 9.29''	3' 8.68''	3' 9.33''	3' 8.64''	3' 9.37''	3' 8.6''	3' 9.41''	3' 8.55''	3' 9.46''	3' 8.49''	3' 9.52''
3' 6''	3' 5.77''	3' 6.23''	3' 5.75''	3' 6.25''	3' 5.72''	3' 6.28''	3' 5.69''	3' 6.31''	3' 5.65''	3' 6.35''	3' 5.61''	3' 6.4''	3' 5.57''	3' 6.44''
3' 3''	3' 2.8''	3' 3.2''	3' 2.79''	3' 3.21''	3' 2.77''	3' 3.24''	3' 2.74''	3' 3.26''	3' 2.71''	3' 3.3''	3' 2.67''	3' 3.33''	3' 2.63''	3' 3.38''
3' 0''	2' 11.84''	3' 0.17''	2' 11.83''	3' 0.17''	2' 11.81''	3' 0.2''	2' 11.78''	3' 0.22''	2' 11.76''	3' 0.25''	2' 11.73''	3' 0.28''	2' 11.69''	3' 0.31''
2' 9''	2' 8.87''	2' 9.14''	2' 8.86''	2' 9.14''	2' 8.84''	2' 9.16''	2' 8.82''	2' 9.18''	2' 8.8''	2' 9.2''	2' 8.78''	2' 9.23''	2' 8.75''	2' 9.26''
2' 6''	2' 5.89''	2' 6.11''	2' 5.89''	2' 6.11''	2' 5.87''	2' 6.13''	2' 5.86''	2' 6.14''	2' 5.84''	2' 6.16''	2' 5.82''	2' 6.18''	2' 5.8''	2' 6.2''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
236' 10.48''	211' 1.03''	188' 1.32''	167' 7.73''	149' 4.91''	133' 1.95''	118' 8.25''	105' 9.53''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
236' 7.31''	Infinity	210' 9.89''	Infinity	187' 10.23''	Infinity	167' 4.64''	Infinity	149' 1.84''	Infinity	132' 10.9''	Infinity	118' 5.24''	Infinity	105' 6.52''	Infinity
79' 9.49''	242' 5.17''	76' 7.8''	277' 1.12''	73' 4.88''	330' 1''	70' 0.95''	420' 4.07''	66' 8.25''	606' 6.86''	63' 3.04''	1207' 1.57''	59' 9.57''	Infinity	56' 4.13''	Infinity
47' 11.83''	80' 1.16''	46' 10.06''	83' 6.32''	45' 7.38''	87' 8.95''	44' 3.79''	93' 0.26''	42' 11.32''	99' 9.08''	41' 6.02''	108' 7.02''	39' 11.94''	120' 6.8''	38' 5.15''	137' 7.44''
34' 3.72''	47' 11.68''	33' 8.68''	49' 2.1''	33' 1.05''	50' 7.18''	32' 4.84''	52' 3.58''	31' 8.02''	54' 4.17''	30' 10.58''	56' 10.2''	30' 0.54''	59' 11.39''	29' 1.9''	63' 10.3''
26' 8.4''	34' 2.89''	26' 4.15''	34' 10.14''	25' 11.51''	35' 6.59''	25' 6.46''	36' 4.49''	25' 0.99''	37' 4.17''	24' 7.07''	38' 6.06''	24' 0.71''	39' 10.71''	23' 5.89''	41' 6.9''
22' 8.12''	27' 10.33''	22' 5.06''	28' 3.09''	22' 1.71''	28' 8.59''	21' 10.04''	29' 2.99''	21' 6.05''	29' 10.47''	21' 1.72''	30' 7.25''	20' 9.02''	31' 5.64''	20' 3.96''	32' 6.03''
18' 5.95''	21' 9.3''	18' 3.92''	22' 0.17''	18' 1.7''	22' 3.48''	17' 11.25''	22' 7.29''	17' 8.57''	22' 11.7''	17' 5.64''	23' 4.82''	17' 2.45''	23' 10.81''	16' 10.98''	24' 5.84''
14' 1.78''	15' 11.56''	14' 0.6''	16' 1.08''	13' 11.31''	16' 2.82''	13' 9.88''	16' 4.8''	13' 8.3''	16' 7.08''	13' 6.57''	16' 9.71''	13' 4.67''	17' 0.74''	13' 2.59''	17' 4.25''
11' 5.46''	12' 7.21''	11' 4.7''	12' 8.14''	11' 3.86''	12' 9.2''	11' 2.93''	12' 10.41''	11' 1.9''	12' 11.79''	11' 0.76''	13' 1.37''	10' 11.51''	13' 3.19''	10' 10.13''	13' 5.27''
10' 6.52''	11' 5.99''	10' 5.88''	11' 6.76''	10' 5.17''	11' 7.64''	10' 4.38''	11' 8.64''	10' 3.51''	11' 9.78''	10' 2.55''	11' 11.08''	10' 1.48''	12' 0.57''	10' 0.31''	12' 2.28''
9' 7.48''	10' 4.89''	9' 6.95''	10' 5.52''	9' 6.37''	10' 6.23''	9' 5.71''	10' 7.04''	9' 4.99''	10' 7.97''	9' 4.19''	10' 9.02''	9' 3.3''	10' 10.22''	9' 2.33''	10' 11.59''
8' 8.36''	9' 3.91''	8' 7.93''	9' 4.41''	8' 7.45''	9' 4.98''	8' 6.92''	9' 5.62''	8' 6.34''	9' 6.35''	8' 5.68''	9' 7.18''	8' 4.96''	9' 8.13''	8' 4.16''	9' 9.21''
8' 2.76''	8' 9.46''	8' 2.38''	8' 9.91''	8' 1.96''	8' 10.4''	8' 1.48''	8' 10.97''	8' 0.96''	8' 11.61''	8' 0.38''	9' 0.35''	7' 11.73''	9' 1.18''	7' 11.02''	9' 2.13''
7' 9.14''	8' 3.04''	7' 8.81''	8' 3.43''	7' 8.43''	8' 3.87''	7' 8.01''	8' 4.36''	7' 7.55''	8' 4.93''	7' 7.03''	8' 5.57''	7' 6.46''	8' 6.29''	7' 5.82''	8' 7.12''
7' 3.5''	7' 8.65''	7' 3.2''	7' 8.99''	7' 2.87''	7' 9.37''	7' 2.51''	7' 9.8''	7' 2.1''	7' 10.29''	7' 1.64''	7' 10.84''	7' 1.14''	7' 11.47''	7' 0.58''	8' 0.19''
6' 9.84''	7' 2.29''	6' 9.58''	7' 2.58''	6' 9.29''	7' 2.9''	6' 8.97''	7' 3.27''	6' 8.62''	7' 3.69''	6' 8.22''	7' 4.17''	6' 7.78''	7' 4.71''	6' 7.3''	7' 5.32''
6' 4.15''	6' 7.95''	6' 3.93''	6' 8.2''	6' 3.68''	6' 8.47''	6' 3.4''	6' 8.79''	6' 3.1''	6' 9.14''	6' 2.76''	6' 9.55''	6' 2.38''	6' 10.01''	6' 1.96''	6' 10.53''
5' 10.43''	6' 1.64''	5' 10.25''	6' 1.85''	5' 10.04''	6' 2.08''	5' 9.81''	6' 2.34''	5' 9.55''	6' 2.64''	5' 9.26''	6' 2.98''	5' 8.94''	6' 3.36''	5' 8.58''	6' 3.8''
5' 4.7''	5' 7.36''	5' 4.54''	5' 7.53''	5' 4.37''	5' 7.72''	5' 4.17''	5' 7.94''	5' 3.96''	5' 8.19''	5' 3.72''	5' 8.46''	5' 3.45''	5' 8.78''	5' 3.15''	5' 9.14''
4' 10.94''	5' 1.1''	4' 10.81''	5' 1.24''	4' 10.67''	5' 1.4''	4' 10.51''	5' 1.57''	4' 10.33''	5' 1.77''	4' 10.13''	5' 2''	4' 9.91''	5' 2.25''	4' 9.67''	5' 2.54''
4' 5.15''	4' 6.88''	4' 5.05''	4' 6.99''	4' 4.94''	4' 7.11''	4' 4.81''	4' 7.25''	4' 4.67''	4' 7.4''	4' 4.51''	4' 7.58''	4' 4.33''	4' 7.78''	4' 4.14''	4' 8.01''
3' 11.35''	4' 0.67''	3' 11.27''	4' 0.76''	3' 11.18''	4' 0.85''	3' 11.08''	4' 0.96''	3' 10.97''	4' 1.08''	3' 10.85''	4' 1.22''	3' 10.71''	4' 1.37''	3' 10.56''	4' 1.54''
3' 8.43''	3' 9.58''	3' 8.36''	3' 9.66''	3' 8.29''	3' 9.74''	3' 8.2''	3' 9.83''	3' 8.11''	3' 9.93''	3' 8''	3' 10.05''	3' 7.88''	3' 10.18''	3' 7.75''	3' 10.33''
3' 5.51''	3' 6.5''	3' 5.45''	3' 6.56''	3' 5.39''	3' 6.63''	3' 5.31''	3' 6.71''	3' 5.23''	3' 6.8''	3' 5.14''	3' 6.9''	3' 5.04''	3' 7.01''	3' 4.92''	3' 7.14''
3' 2.59''	3' 3.42''	3' 2.54''	3' 3.47''	3' 2.48''	3' 3.53''	3' 2.42''	3' 3.6''	3' 2.35''	3' 3.68''	3' 2.27''	3' 3.76''	3' 2.18''	3' 3.85''	3' 2.09''	3' 3.96''
2' 11.66''	3' 0.35''	2' 11.61''	3' 0.4''	2' 11.57''	3' 0.44''	2' 11.52''	3' 0.5''	2' 11.46''	3' 0.56''	2' 11.39''	3' 0.63''	2' 11.32''	3' 0.71''	2' 11.24''	3' 0.8''
2' 8.72''	2' 9.29''	2' 8.68''	2' 9.32''	2' 8.65''	2' 9.36''	2' 8.6''	2' 9.41''	2' 8.56''	2' 9.46''	2' 8.5''	2' 9.52''	2' 8.44''	2' 9.58''	2' 8.37''	2' 9.65''
2' 5.77''	2' 6.23''	2' 5.75''	2' 6.26''	2' 5.72''	2' 6.29''	2' 5.68''	2' 6.33''	2' 5.64''	2' 6.37''	2' 5.6''	2' 6.41''	2' 5.55''	2' 6.46''	2' 5.5''	2' 6.52''

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8	9	10	11	13	14	16	18
94' 3.69''	84' 0.9''	74' 11.49''	66' 10.01''	59' 7.16''	53' 1.8''	47' 4.86''	42' 3.48''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
94' 0.68''	Infinity	83' 9.88''	Infinity	74' 8.47''	Infinity	66' 7''	Infinity	59' 4.17''	Infinity	52' 10.8''	Infinity	47' 1.88''	Infinity	42' 0.48''	Infinity
52' 10.99''	Infinity	49' 6.42''	Infinity	46' 2.67''	Infinity	42' 11.97''	Infinity	39' 10.53''	Infinity	36' 10.52''	Infinity	34' 0.09''	Infinity	31' 3.35''	Infinity
36' 9.76''	163' 7.32''	35' 1.85''	207' 7.88''	33' 5.56''	297' 8.08''	31' 9''	580' 2.58''	30' 0.31''	Infinity	28' 3.63''	Infinity	26' 7.1''	Infinity	24' 10.85''	Infinity
28' 2.69''	68' 10.86''	27' 2.93''	75' 7.41''	26' 2.69''	84' 10.89''	25' 2''	98' 6.02''	24' 0.93''	120' 1.26''	22' 11.56''	159' 4.57''	21' 9.97''	251' 11.67''	20' 8.25''	725' 11.39''
22' 10.61''	43' 7.72''	22' 2.88''	46' 2.7''	21' 6.72''	49' 6.19''	20' 10.13''	53' 9.84''	20' 1.16''	59' 7.73''	19' 3.83''	67' 10.8''	18' 6.19''	80' 4.88''	17' 8.3''	101' 4.76''
19' 10.51''	33' 8.95''	19' 4.69''	35' 3.13''	18' 10.49''	37' 1.6''	18' 3.91''	39' 5.88''	17' 8.98''	42' 6.25''	17' 1.71''	46' 6.4''	16' 6.12''	52' 0.64''	15' 10.26''	60' 0.73''
16' 7.23''	25' 2.17''	16' 3.18''	26' 0.09''	15' 10.83''	27' 0.06''	15' 6.18''	28' 2.63''	15' 1.22''	29' 8.66''	14' 7.97''	31' 7.35''	14' 2.43''	34' 0.56''	13' 8.62''	37' 3.25''
13' 0.32''	17' 8.34''	12' 9.85''	18' 1.13''	12' 7.16''	18' 6.78''	12' 4.27''	19' 1.48''	12' 1.15''	19' 9.51''	11' 9.8''	20' 7.23''	11' 6.23''	21' 7.15''	11' 2.43''	22' 9.99''
10' 8.61''	13' 7.69''	10' 6.96''	13' 10.48''	10' 5.15''	14' 1.74''	10' 3.18''	14' 5.55''	10' 1.05''	14' 10.04''	9' 10.74''	15' 3.37''	9' 8.26''	15' 9.76''	9' 5.59''	16' 5.49''
9' 11.02''	12' 4.25''	9' 9.61''	12' 6.52''	9' 8.07''	12' 9.16''	9' 6.38''	13' 0.24''	9' 4.55''	13' 3.85''	9' 2.57''	13' 8.11''	9' 0.42''	14' 1.17''	8' 10.11''	14' 7.25''
9' 1.25''	11' 1.17''	9' 0.07''	11' 2.99''	8' 10.77''	11' 5.1''	8' 9.36''	11' 7.54''	8' 7.81''	11' 10.39''	8' 6.13''	12' 1.74''	8' 4.31''	12' 5.69''	8' 2.35''	12' 10.39''
8' 3.28''	9' 10.45''	8' 2.32''	9' 11.88''	8' 1.25''	10' 1.52''	8' 0.08''	10' 3.42''	7' 10.81''	10' 5.62''	7' 9.42''	10' 8.19''	7' 7.91''	10' 11.21''	7' 6.27''	11' 2.78''
7' 10.23''	9' 3.22''	7' 9.36''	9' 4.47''	7' 8.4''	9' 5.9''	7' 7.36''	9' 7.56''	7' 6.21''	9' 9.48''	7' 4.95''	9' 11.72''	7' 3.59''	10' 2.33''	7' 2.11''	10' 5.41''
7' 5.12''	8' 8.07''	7' 4.35''	8' 9.16''	7' 3.5''	8' 10.4''	7' 2.56''	8' 11.84''	7' 1.54''	9' 1.5''	7' 0.42''	9' 3.43''	6' 11.19''	9' 5.68''	6' 9.86''	9' 8.32''
6' 11.97''	8' 1.01''	6' 11.28''	8' 1.94''	6' 10.53''	8' 3.02''	6' 9.71''	8' 4.25''	6' 8.8''	8' 5.67''	6' 7.8''	8' 7.32''	6' 6.72''	8' 9.24''	6' 5.53''	8' 11.48''
6' 6.76''	7' 6.02''	6' 6.16''	7' 6.82''	6' 5.5''	7' 7.74''	6' 4.78''	7' 8.79''	6' 3.98''	7' 10''	6' 3.11''	7' 11.39''	6' 2.15''	8' 1.01''	6' 1.11''	8' 2.9''
6' 1.5''	6' 11.12''	6' 0.98''	6' 11.79''	6' 0.41''	7' 0.56''	5' 11.79''	7' 1.45''	5' 11.1''	7' 2.46''	5' 10.34''	7' 3.63''	5' 9.51''	7' 4.98''	5' 8.6''	7' 6.56''
5' 8.18''	6' 4.29''	5' 7.75''	6' 4.85''	5' 7.26''	6' 5.49''	5' 6.72''	6' 6.23''	5' 6.13''	6' 7.07''	5' 5.48''	6' 8.04''	5' 4.77''	6' 9.15''	5' 3.99''	6' 10.44''
5' 2.82''	5' 9.54''	5' 2.45''	5' 10''	5' 2.04''	5' 10.53''	5' 1.59''	5' 11.13''	5' 1.09''	5' 11.81''	5' 0.54''	6' 0.6''	4' 11.94''	6' 1.5''	4' 11.28''	6' 2.55''
4' 9.4''	5' 2.87''	4' 9.09''	5' 3.24''	4' 8.76''	5' 3.66''	4' 8.39''	5' 4.14''	4' 7.97''	5' 4.69''	4' 7.52''	5' 5.32''	4' 7.02''	5' 6.04''	4' 6.47''	5' 6.87''
4' 3.92''	4' 8.27''	4' 3.68''	4' 8.56''	4' 3.41''	4' 8.89''	4' 3.11''	4' 9.27''	4' 2.77''	4' 9.69''	4' 2.41''	4' 10.18''	4' 2''	4' 10.74''	4' 1.55''	4' 11.39''
3' 10.39''	4' 1.74''	3' 10.2''	4' 1.96''	3' 9.98''	4' 2.21''	3' 9.75''	4' 2.5''	3' 9.49''	4' 2.83''	3' 9.2''	4' 3.2''	3' 8.88''	4' 3.62''	3' 8.53''	4' 4.1''
3' 7.6''	3' 10.5''	3' 7.43''	3' 10.69''	3' 7.25''	3' 10.91''	3' 7.04''	3' 11.16''	3' 6.82''	3' 11.44''	3' 6.56''	3' 11.76''	3' 6.29''	4' 0.12''	3' 5.98''	4' 0.53''
3' 4.79''	3' 7.28''	3' 4.65''	3' 7.45''	3' 4.49''	3' 7.63''	3' 4.32''	3' 7.84''	3' 4.12''	3' 8.08''	3' 3.9''	3' 8.35''	3' 3.66''	3' 8.66''	3' 3.39''	3' 9.01''
3' 1.98''	3' 4.08''	3' 1.86''	3' 4.22''	3' 1.72''	3' 4.38''	3' 1.57''	3' 4.55''	3' 1.4''	3' 4.75''	3' 1.22''	3' 4.98''	3' 1.01''	3' 5.24''	3' 0.78''	3' 5.53''
2' 11.15''	3' 0.9''	2' 11.04''	3' 1.01''	2' 10.93''	3' 1.14''	2' 10.81''	3' 1.29''	2' 10.67''	3' 1.45''	2' 10.51''	3' 1.64''	2' 10.34''	3' 1.85''	2' 10.14''	3' 2.09''
2' 8.3''	2' 9.73''	2' 8.22''	2' 9.83''	2' 8.12''	2' 9.93''	2' 8.02''	2' 10.05''	2' 7.9''	2' 10.18''	2' 7.78''	2' 10.33''	2' 7.63''	2' 10.51''	2' 7.47''	2' 10.7''
2' 5.44''	2' 6.59''	2' 5.37''	2' 6.66''	2' 5.3''	2' 6.74''	2' 5.21''	2' 6.84''	2' 5.12''	2' 6.94''	2' 5.02''	2' 7.06''	2' 4.9''	2' 7.2''	2' 4.77''	2' 7.35''

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20	22
37' 8.76''	33' 8.02''

20		22	
Short Focus (ft-inch)	**Long Focus (ft-inch)**	**Short Focus (ft-inch)**	**Long Focus (ft-inch)**
37' 5.77''	Infinity	33' 5.04''	Infinity
28' 8.38''	Infinity	26' 3.23''	Infinity
23' 3''	Infinity	21' 7.67''	Infinity
19' 6.48''	Infinity	18' 4.75''	Infinity
16' 10.21''	143' 6.06''	15' 11.98''	269' 2.09''
15' 2.15''	72' 7.41''	14' 5.85''	94' 11.13''
13' 2.56''	41' 8.54''	12' 8.28''	48' 1.96''
10' 10.41''	24' 4.84''	10' 6.18''	26' 5.39''
9' 2.75''	17' 2.97''	8' 11.72''	18' 2.77''
8' 7.64''	15' 2.63''	8' 5''	15' 11.7''
8' 0.23''	13' 4.05''	7' 9.97''	13' 10.92''
7' 4.5''	11' 7.03''	7' 2.6''	12' 0.14''
7' 0.51''	10' 9.07''	6' 10.78''	11' 1.43''
6' 8.42''	9' 11.43''	6' 6.87''	10' 3.14''
6' 4.25''	9' 2.12''	6' 2.86''	9' 5.24''
5' 11.97''	8' 5.11''	5' 10.74''	8' 7.72''
5' 7.6''	7' 8.39''	5' 6.53''	7' 10.54''
5' 3.13''	6' 11.94''	5' 2.2''	7' 1.69''
4' 10.55''	6' 3.76''	4' 9.76''	6' 5.16''
4' 5.86''	5' 7.82''	4' 5.2''	5' 8.93''
4' 1.06''	5' 0.13''	4' 0.52''	5' 0.98''
3' 8.14''	4' 4.66''	3' 7.71''	4' 5.3''
3' 5.64''	4' 1.01''	3' 5.26''	4' 1.55''
3' 3.1''	3' 9.41''	3' 2.77''	3' 9.87''
3' 0.53''	3' 5.86''	3' 0.25''	3' 6.24''
2' 9.93''	3' 2.37''	2' 9.69''	3' 2.68''
2' 7.3''	2' 10.92''	2' 7.1''	2' 11.17''
2' 4.63''	2' 7.53''	2' 4.47''	2' 7.73''

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Focal Length 90 mm

Circle of Confusion 0.025 mm

T/No	1.5	1.6	1.8	2	2.2	2.5	2.8
Hyperfocal Distance (ft-inch)	701' 8.51''	663' 1.28''	590' 9.96''	526' 5.24''	469' 0.82''	417' 11.51''	372' 5.13''

T/No	1.5		1.6		1.8		2		2.2		2.5		2.8	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	701' 3.2''	Infinity	662' 8.17''	Infinity	590' 5.16''	Infinity	526' 0.7''	Infinity	468' 8.5''	Infinity	417' 7.35''	Infinity	372' 1.09''	Infinity
120' 0''	102' 7.03''	144' 6.74''	101' 8.71''	146' 3.69''	99' 10.38''	150' 4.16''	97' 10.26''	155' 1.85''	95' 8.33''	160' 11.18''	93' 4.56''	167' 11.43''	90' 10.94''	176' 7.23''
60' 0''	55' 4.08''	65' 6.27''	55' 1.09''	65' 10.52''	54' 6.53''	66' 8.12''	53' 11.33''	67' 7.18''	53' 3.43''	68' 7.97''	52' 6.79''	69' 10.81''	51' 9.37''	71' 4.13''
40' 0''	37' 10.67''	42' 4.34''	37' 9.28''	42' 6.1''	37' 6.21''	42' 10.05''	37' 2.82''	43' 2.55''	36' 11.07''	43' 7.71''	36' 6.94''	44' 1.62''	36' 2.39''	44' 8.41''
30' 0''	28' 9.67''	31' 3.58''	28' 8.87''	31' 4.53''	28' 7.11''	31' 6.66''	28' 5.15''	31' 9.08''	28' 2.98''	31' 11.84''	28' 0.57''	32' 2.98''	27' 9.91''	32' 6.56''
25' 0''	24' 2.05''	25' 10.67''	24' 1.49''	25' 11.32''	24' 0.25''	26' 0.76''	23' 10.87''	26' 2.4''	23' 9.35''	26' 4.26''	23' 7.65''	26' 6.38''	23' 5.77''	26' 8.79''
20' 0''	19' 5.65''	20' 6.72''	19' 5.29''	20' 7.12''	19' 4.49''	20' 8.02''	19' 3.6''	20' 9.04''	19' 2.62''	20' 10.19''	19' 1.52''	20' 11.5''	19' 0.3''	21' 0.99''
15' 0''	14' 8.46''	15' 3.69''	14' 8.26''	15' 3.91''	14' 7.81''	15' 4.4''	14' 7.31''	15' 4.95''	14' 6.75''	15' 5.58''	14' 6.13''	15' 6.29''	14' 5.44''	15' 7.09''
12' 0''	11' 9.76''	12' 2.31''	11' 9.63''	12' 2.45''	11' 9.35''	12' 2.76''	11' 9.03''	12' 3.1''	11' 8.67''	12' 3.49''	11' 8.28''	12' 3.93''	11' 7.84''	12' 4.43''
11' 0''	10' 10.13''	11' 1.93''	10' 10.02''	11' 2.04''	10' 9.78''	11' 2.3''	10' 9.52''	11' 2.58''	10' 9.22''	11' 2.91''	10' 8.89''	11' 3.27''	10' 8.52''	11' 3.68''
10' 0''	9' 10.47''	10' 1.58''	9' 10.38''	10' 1.67''	9' 10.18''	10' 1.88''	9' 9.96''	10' 2.11''	9' 9.72''	10' 2.37''	9' 9.45''	10' 2.67''	9' 9.14''	10' 3.01''
9' 0''	8' 10.77''	9' 1.26''	8' 10.7''	9' 1.34''	8' 10.54''	9' 1.5''	8' 10.37''	9' 1.69''	8' 10.17''	9' 1.9''	8' 9.95''	9' 2.14''	8' 9.7''	9' 2.4''
8' 6''	8' 4.91''	8' 7.12''	8' 4.85''	8' 7.18''	8' 4.71''	8' 7.33''	8' 4.55''	8' 7.49''	8' 4.38''	8' 7.68''	8' 4.18''	8' 7.89''	8' 3.96''	8' 8.13''
8' 0''	7' 11.04''	8' 0.98''	7' 10.98''	8' 1.04''	7' 10.86''	8' 1.17''	7' 10.72''	8' 1.31''	7' 10.57''	8' 1.48''	7' 10.4''	8' 1.66''	7' 10.21''	8' 1.87''
7' 6''	7' 5.16''	7' 6.85''	7' 5.11''	7' 6.9''	7' 5.01''	7' 7.02''	7' 4.89''	7' 7.14''	7' 4.75''	7' 7.29''	7' 4.6''	7' 7.45''	7' 4.43''	7' 7.63''
7' 0''	6' 11.28''	7' 0.74''	6' 11.23''	7' 0.78''	6' 11.14''	7' 0.88''	6' 11.04''	7' 0.99''	6' 10.92''	7' 1.11''	6' 10.79''	7' 1.25''	6' 10.65''	7' 1.4''
6' 6''	6' 5.38''	6' 6.63''	6' 5.35''	6' 6.66''	6' 5.27''	6' 6.75''	6' 5.18''	6' 6.84''	6' 5.08''	6' 6.94''	6' 4.97''	6' 7.06''	6' 4.84''	6' 7.19''
6' 0''	5' 11.48''	6' 0.53''	5' 11.45''	6' 0.56''	5' 11.38''	6' 0.63''	5' 11.31''	6' 0.71''	5' 11.23''	6' 0.79''	5' 11.13''	6' 0.89''	5' 11.03''	6' 1''
5' 6''	5' 5.57''	5' 6.44''	5' 5.55''	5' 6.46''	5' 5.49''	5' 6.52''	5' 5.43''	5' 6.58''	5' 5.36''	5' 6.66''	5' 5.28''	5' 6.74''	5' 5.19''	5' 6.83''
5' 0''	4' 11.65''	5' 0.35''	4' 11.63''	5' 0.37''	4' 11.59''	5' 0.42''	4' 11.54''	5' 0.47''	4' 11.48''	5' 0.53''	4' 11.42''	5' 0.6''	4' 11.35''	5' 0.67''
4' 6''	4' 5.72''	4' 6.28''	4' 5.71''	4' 6.3''	4' 5.67''	4' 6.33''	1.362	4' 6.37''	4' 5.59''	4' 6.42''	4' 5.54''	4' 6.47''	4' 5.48''	4' 6.53''
4' 0''	3' 11.79''	4' 0.21''	3' 11.78''	4' 0.23''	3' 11.75''	4' 0.25''	3' 11.72''	4' 0.29''	3' 11.68''	4' 0.32''	3' 11.64''	4' 0.36''	3' 11.6''	4' 0.41''
3' 9''	3' 8.82''	3' 9.18''	3' 8.81''	3' 9.2''	3' 8.78''	3' 9.22''	3' 8.76''	3' 9.25''	3' 8.73''	3' 9.28''	3' 8.69''	3' 9.31''	3' 8.66''	3' 9.35''
3' 6''	3' 5.84''	3' 6.16''	3' 5.83''	3' 6.17''	3' 5.81''	3' 6.19''	3' 5.79''	3' 6.21''	3' 5.77''	3' 6.24''	3' 5.74''	3' 6.27''	3' 5.71''	3' 6.3''
3' 3''	3' 2.87''	3' 3.13''	3' 2.86''	3' 3.14''	3' 2.84''	3' 3.16''	3' 2.82''	3' 3.18''	3' 2.8''	3' 3.2''	3' 2.78''	3' 3.22''	3' 2.75''	3' 3.25''
3' 0''	2' 11.89''	3' 0.11''	2' 11.88''	3' 0.12''	2' 11.87''	3' 0.13''	2' 11.85''	3' 0.15''	2' 11.84''	3' 0.16''	2' 11.82''	3' 0.18''	2' 11.8''	3' 0.21''
2' 10''	2' 9.9''	2' 10.1''	2' 9.9''	2' 10.1''	2' 9.89''	2' 10.11''	2' 9.87''	2' 10.13''	2' 9.86''	2' 10.14''	2' 9.84''	2' 10.16''	2' 9.82''	2' 10.18''

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3.2	3.5	4	4.5	5	5.6	6.3	7.1
331' 10.32''	295' 8.66''	263' 6.32''	234' 10.11''	209' 3.46''	186' 6.23''	166' 2.84''	148' 2.03''

3.2		3.5		4		4.5		5		5.6		6.3		7.1	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
331' 6.41''	Infinity	295' 4.82''	Infinity	263' 2.53''	Infinity	234' 6.37''	Infinity	208' 11.76''	Infinity	186' 2.6''	Infinity	165' 11.23''	Infinity	147' 10.41''	Infinity
88' 3.52''	187' 5.28''	85' 6.35''	201' 3.72''	82' 7.51''	219' 6.6''	79' 7.13''	244' 4.98''	76' 5.36''	280' 0.28''	73' 2.39''	334' 9.49''	69' 10.42''	429' 0.12''	66' 5.7''	627' 2.86''
50' 11.13''	73' 0.44''	50' 0.03''	75' 0.42''	49' 0.04''	77' 4.96''	47' 11.15''	80' 3.24''	46' 9.34''	83' 8.88''	45' 6.62''	88' 0.14''	44' 2.99''	93' 4.32''	42' 10.49''	100' 2.36''
35' 9.4''	45' 4.25''	35' 3.93''	46' 1.34''	34' 9.96''	46' 11.9''	34' 3.46''	48' 0.25''	33' 8.4''	49' 2.78''	33' 0.76''	50' 7.99''	32' 4.52''	52' 4.56''	31' 7.68''	54' 5.37''
27' 6.98''	32' 10.67''	27' 3.75''	33' 3.39''	27' 0.19''	33' 8.82''	26' 8.3''	34' 3.09''	26' 4.04''	34' 10.37''	25' 11.39''	35' 6.86''	25' 6.33''	36' 4.82''	25' 0.85''	37' 4.57''
23' 3.69''	26' 11.53''	23' 1.4''	27' 2.68''	22' 10.86''	27' 6.28''	22' 8.07''	27' 10.42''	22' 5.01''	28' 3.19''	22' 1.66''	28' 8.71''	21' 9.99''	29' 3.13''	21' 6''	29' 10.63''
18' 10.94''	21' 2.68''	18' 9.44''	21' 4.6''	18' 7.78''	21' 6.8''	18' 5.95''	21' 9.31''	18' 3.93''	22' 0.19''	18' 1.7''	22' 3.49''	17' 11.26''	22' 7.3''	17' 8.58''	22' 11.72''
14' 4.67''	15' 8''	14' 3.81''	15' 9.03''	14' 2.86''	15' 10.2''	14' 1.81''	15' 11.53''	14' 0.64''	16' 1.04''	13' 11.35''	16' 2.77''	13' 9.92''	16' 4.76''	13' 8.35''	16' 7.03''
11' 7.34''	12' 4.99''	11' 6.79''	12' 5.62''	11' 6.18''	12' 6.34''	11' 5.5''	12' 7.16''	11' 4.75''	12' 8.09''	11' 3.91''	12' 9.14''	11' 2.99''	12' 10.35''	11' 1.96''	12' 11.72''
10' 8.1''	11' 4.15''	10' 7.64''	11' 4.67''	10' 7.13''	11' 5.27''	10' 6.56''	11' 5.95''	10' 5.92''	11' 6.71''	10' 5.22''	11' 7.58''	10' 4.44''	11' 8.57''	10' 3.57''	11' 9.7''
9' 8.8''	10' 3.39''	9' 8.42''	10' 3.82''	9' 8''	10' 4.3''	9' 7.53''	10' 4.85''	9' 7''	10' 5.47''	9' 6.42''	10' 6.18''	9' 5.77''	10' 6.98''	9' 5.05''	10' 7.89''
8' 9.43''	9' 2.71''	8' 9.12''	9' 3.05''	8' 8.78''	9' 3.43''	8' 8.4''	9' 3.87''	8' 7.98''	9' 4.36''	8' 7.5''	9' 4.92''	8' 6.98''	9' 5.55''	8' 6.4''	9' 6.28''
8' 3.72''	8' 8.39''	8' 3.45''	8' 8.69''	8' 3.14''	8' 9.03''	8' 2.8''	8' 9.42''	8' 2.43''	8' 9.85''	8' 2.01''	8' 10.35''	8' 1.54''	8' 10.91''	8' 1.02''	8' 11.54''
7' 9.99''	8' 2.1''	7' 9.75''	8' 2.37''	7' 9.48''	8' 2.66''	7' 9.18''	8' 3''	7' 8.85''	8' 3.38''	7' 8.48''	8' 3.81''	7' 8.07''	8' 4.3''	7' 7.61''	8' 4.86''
7' 4.25''	7' 7.83''	7' 4.04''	7' 8.06''	7' 3.8''	7' 8.32''	7' 3.54''	7' 8.61''	7' 3.25''	7' 8.94''	7' 2.92''	7' 9.31''	7' 2.56''	7' 9.74''	7' 2.16''	7' 10.22''
6' 10.48''	7' 1.58''	6' 10.3''	7' 1.77''	6' 10.1''	7' 2''	6' 9.87''	7' 2.25''	6' 9.62''	7' 2.53''	6' 9.34''	7' 2.85''	6' 9.02''	7' 3.21''	6' 8.68''	7' 3.63''
6' 4.71''	6' 7.34''	6' 4.55''	6' 7.51''	6' 4.38''	6' 7.7''	6' 4.18''	6' 7.91''	6' 3.97''	6' 8.15''	6' 3.72''	6' 8.42''	6' 3.46''	6' 8.73''	6' 3.16''	6' 9.08''
5' 10.91''	6' 1.13''	5' 10.78''	6' 1.27''	5' 10.63''	6' 1.43''	5' 10.47''	6' 1.6''	5' 10.29''	6' 1.81''	5' 10.08''	6' 2.03''	5' 9.85''	6' 2.29''	5' 9.6''	6' 2.58''
5' 5.1''	5' 6.93''	5' 4.99''	5' 7.05''	5' 4.87''	5' 7.18''	5' 4.73''	5' 7.32''	5' 4.58''	5' 7.49''	5' 4.41''	5' 7.68''	5' 4.22''	5' 7.89''	5' 4.01''	5' 8.13''
4' 11.27''	5' 0.75''	4' 11.18''	5' 0.85''	4' 11.08''	5' 0.95''	4' 10.97''	5' 1.07''	4' 10.84''	5' 1.21''	4' 10.71''	5' 1.36''	4' 10.55''	5' 1.53''	4' 10.38''	5' 1.72''
4' 5.42''	4' 6.6''	4' 5.35''	4' 6.67''	4' 5.27''	4' 6.75''	4' 5.18''	4' 6.85''	4' 5.08''	4' 6.95''	4' 4.97''	4' 7.07''	4' 4.85''	4' 7.2''	4' 4.71''	4' 7.36''
3' 11.55''	4' 0.46''	3' 11.5''	4' 0.51''	3' 11.44''	4' 0.58''	3' 11.37''	4' 0.65''	3' 11.3''	4' 0.73''	3' 11.21''	4' 0.82''	3' 11.12''	4' 0.92''	3' 11.01''	4' 1.04''
3' 8.61''	3' 9.39''	3' 8.57''	3' 9.44''	3' 8.51''	3' 9.5''	3' 8.46''	3' 9.56''	3' 8.39''	3' 9.63''	3' 8.32''	3' 9.71''	3' 8.24''	3' 9.79''	3' 8.14''	3' 9.89''
3' 5.67''	3' 6.34''	3' 5.63''	3' 6.38''	3' 5.59''	3' 6.42''	3' 5.54''	3' 6.48''	3' 5.48''	3' 6.53''	3' 5.42''	3' 6.6''	3' 5.35''	3' 6.68''	3' 5.27''	3' 6.76''
3' 2.72''	3' 3.28''	3' 2.69''	3' 3.32''	3' 2.65''	3' 3.36''	3' 2.61''	3' 3.4''	3' 2.56''	3' 3.45''	3' 2.51''	3' 3.51''	3' 2.45''	3' 3.57''	3' 2.38''	3' 3.64''
2' 11.77''	3' 0.23''	2' 11.74''	3' 0.26''	2' 11.71''	3' 0.29''	2' 11.68''	3' 0.33''	2' 11.64''	3' 0.37''	2' 11.59''	3' 0.42''	2' 11.54''	3' 0.47''	2' 11.49''	3' 0.53''
2' 9.8''	2' 10.2''	2' 9.77''	2' 10.23''	2' 9.75''	2' 10.26''	2' 9.72''	2' 10.29''	2' 9.68''	2' 10.32''	2' 9.64''	2' 10.36''	2' 9.6''	2' 10.41''	2' 9.55''	2' 10.46''

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8	9	10	11	13	14	16	18
132' 0.84''	117' 8.72''	104' 11.41''	93' 6.8''	83' 5.1''	74' 4.68''	66' 4.1''	59' 2.04''

8		9		10		11		13		14		16		18	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
131' 9.25''	Infinity	117' 5.16''	Infinity	104' 7.84''	Infinity	93' 3.25''	Infinity	83' 1.56''	Infinity	74' 1.15''	Infinity	66' 0.57''	Infinity	58' 10.52''	Infinity
63' 0.48''	1303' 9.27''	59' 7.03''	Infinity	56' 1.62''	Infinity	52' 8.54''	Infinity	49' 4.04''	Infinity	46' 0.38''	Infinity	42' 9.78''	Infinity	39' 8.45''	Infinity
41' 5.15''	109' 2.11''	39' 11.04''	121' 4.72''	38' 4.24''	138' 10.13''	36' 8.83''	165' 6.97''	35' 0.92''	211' 3.45''	33' 4.62''	306' 3.2''	31' 8.08''	618' 9.8''	29' 11.41''	Infinity
30' 10.23''	56' 11.69''	30' 0.17''	60' 1.27''	29' 1.52''	64' 0.73''	28' 2.29''	69' 2.09''	27' 2.53''	75' 11.85''	26' 2.28''	85' 5.3''	25' 1.59''	99' 3.92''	24' 0.52''	121' 6.22''
24' 6.93''	38' 6.53''	24' 0.56''	39' 11.3''	23' 5.74''	41' 7.63''	22' 10.45''	43' 8.64''	22' 2.72''	46' 3.89''	21' 6.55''	49' 7.76''	20' 9.97''	53' 11.98''	20' 0.99''	59' 10.77''
21' 1.66''	30' 7.45''	20' 8.96''	31' 5.88''	20' 3.9''	32' 6.33''	19' 10.45''	33' 9.32''	19' 4.63''	35' 3.61''	18' 10.43''	37' 2.22''	18' 3.86''	39' 6.68''	17' 8.93''	42' 7.34''
17' 5.65''	23' 4.85''	17' 2.46''	23' 10.84''	16' 11''	24' 5.89''	16' 7.25''	25' 2.23''	16' 3.2''	26' 0.18''	15' 10.86''	27' 0.17''	15' 6.21''	28' 2.79''	15' 1.27''	29' 8.87''
13' 6.62''	16' 9.65''	13' 4.73''	17' 0.67''	13' 2.66''	17' 4.17''	13' 0.39''	17' 8.25''	12' 9.93''	18' 1.03''	12' 7.26''	18' 6.67''	12' 4.37''	19' 1.36''	12' 1.26''	19' 9.37''
11' 0.83''	13' 1.29''	10' 11.58''	13' 3.09''	10' 10.21''	13' 5.17''	10' 8.71''	13' 7.56''	10' 7.06''	13' 10.34''	10' 5.26''	14' 1.58''	10' 3.31''	14' 5.36''	10' 1.19''	14' 9.83''
10' 2.62''	11' 10.99''	10' 1.56''	12' 0.47''	10' 0.4''	12' 2.17''	9' 11.12''	12' 4.12''	9' 9.72''	12' 6.38''	9' 8.19''	12' 9''	9' 6.51''	13' 0.05''	9' 4.7''	13' 3.63''
9' 4.26''	10' 8.93''	9' 3.38''	10' 10.12''	9' 2.41''	10' 11.48''	9' 1.35''	11' 1.05''	9' 0.18''	11' 2.85''	8' 10.89''	11' 4.93''	8' 9.49''	11' 7.35''	8' 7.95''	11' 10.17''
8' 5.75''	9' 7.1''	8' 5.04''	9' 8.03''	8' 4.25''	9' 9.1''	8' 3.38''	9' 10.33''	8' 2.42''	9' 11.73''	8' 1.37''	10' 1.36''	8' 0.22''	10' 3.23''	7' 10.95''	10' 5.41''
8' 0.45''	9' 0.26''	7' 11.81''	9' 1.09''	7' 11.1''	9' 2.02''	7' 10.32''	9' 3.1''	7' 9.47''	9' 4.33''	7' 8.52''	9' 5.75''	7' 7.49''	9' 7.38''	7' 6.35''	9' 9.27''
7' 7.1''	8' 5.49''	7' 6.53''	8' 6.2''	7' 5.91''	8' 7.02''	7' 5.22''	8' 7.95''	7' 4.45''	8' 9.02''	7' 3.61''	8' 10.25''	7' 2.69''	8' 11.67''	7' 1.68''	9' 1.3''
7' 1.71''	7' 10.76''	7' 1.22''	7' 11.38''	7' 0.67''	8' 0.09''	7' 0.06''	8' 0.89''	6' 11.39''	8' 1.81''	6' 10.65''	8' 2.87''	6' 9.83''	8' 4.08''	6' 8.94''	8' 5.48''
6' 8.29''	7' 4.09''	6' 7.86''	7' 4.62''	6' 7.38''	7' 5.23''	6' 6.85''	7' 5.91''	6' 6.26''	7' 6.7''	6' 5.62''	7' 7.59''	6' 4.9''	7' 8.62''	6' 4.12''	7' 9.81''
6' 2.82''	6' 9.48''	6' 2.45''	6' 9.92''	6' 2.04''	6' 10.43''	6' 1.58''	6' 11.01''	6' 1.08''	6' 11.67''	6' 0.52''	7' 0.43''	5' 11.91''	7' 1.29''	5' 11.23''	7' 2.29''
5' 9.32''	6' 2.91''	5' 9''	6' 3.29''	5' 8.65''	6' 3.71''	5' 8.27''	6' 4.19''	5' 7.84''	6' 4.74''	5' 7.36''	6' 5.37''	5' 6.84''	6' 6.08''	5' 6.26''	6' 6.9''
5' 3.77''	5' 8.4''	5' 3.51''	5' 8.71''	5' 3.22''	5' 9.05''	5' 2.9''	5' 9.45''	5' 2.54''	5' 9.9''	5' 2.14''	5' 10.41''	5' 1.7''	5' 10.99''	5' 1.21''	5' 11.66''
4' 10.19''	5' 1.94''	4' 9.97''	5' 2.18''	4' 9.73''	5' 2.46''	4' 9.47''	5' 2.78''	4' 9.18''	5' 3.14''	4' 8.85''	5' 3.55''	4' 8.49''	5' 4.01''	4' 8.09''	5' 4.55''
4' 4.56''	4' 7.53''	4' 4.39''	4' 7.72''	4' 4.2''	4' 7.94''	4' 3.99''	4' 8.19''	4' 3.75''	4' 8.47''	4' 3.49''	4' 8.79''	4' 3.2''	4' 9.15''	4' 2.88''	4' 9.56''
3' 10.89''	4' 1.17''	3' 10.76''	4' 1.31''	3' 10.61''	4' 1.48''	3' 10.45''	4' 1.67''	3' 10.27''	4' 1.88''	3' 10.06''	4' 2.12''	3' 9.84''	4' 2.4''	3' 9.59''	4' 2.71''
3' 8.04''	3' 10.01''	3' 7.93''	3' 10.13''	3' 7.8''	3' 10.28''	3' 7.66''	3' 10.44''	3' 7.5''	3' 10.62''	3' 7.32''	3' 10.83''	3' 7.13''	3' 11.06''	3' 6.91''	3' 11.33''
3' 5.18''	3' 6.86''	3' 5.08''	3' 6.96''	3' 4.97''	3' 7.09''	3' 4.85''	3' 7.22''	3' 4.72''	3' 7.38''	3' 4.56''	3' 7.55''	3' 4.4''	3' 7.75''	3' 4.21''	3' 7.98''
3' 2.31''	3' 3.72''	3' 2.23''	3' 3.81''	3' 2.13''	3' 3.91''	3' 2.03''	3' 4.03''	3' 1.92''	3' 4.16''	3' 1.79''	3' 4.3''	3' 1.64''	3' 4.47''	3' 1.49''	3' 4.66''
2' 11.43''	3' 0.59''	2' 11.36''	3' 0.67''	2' 11.28''	3' 0.75''	2' 11.2''	3' 0.85''	2' 11.1''	3' 0.95''	2' 10.99''	3' 1.07''	2' 10.87''	3' 1.21''	2' 10.74''	3' 1.37''
2' 9.5''	2' 10.52''	2' 9.44''	2' 10.58''	2' 9.37''	2' 10.66''	2' 9.3''	2' 10.74''	2' 9.21''	2' 10.83''	2' 9.12''	2' 10.93''	2' 9.02''	2' 11.05''	2' 8.9''	2' 11.19''

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20	22
52' 9.39''	47' 1.08''

20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
52' 5.86''	Infinity	46' 9.56''	Infinity
36' 8.57''	Infinity	33' 10.28''	Infinity
28' 2.76''	Infinity	26' 6.26''	Infinity
22' 11.16''	162' 3.12''	21' 9.59''	260' 4.72''
19' 3.67''	68' 3.37''	18' 6.04''	81' 0.36''
17' 1.66''	46' 7.94''	16' 6.09''	52' 2.91''
14' 8.02''	31' 7.65''	14' 2.49''	34' 0.98''
11' 9.92''	20' 7.07''	11' 6.36''	21' 6.96''
9' 10.89''	15' 3.13''	9' 8.42''	15' 9.47''
9' 2.72''	13' 7.85''	9' 0.59''	14' 0.88''
8' 6.29''	12' 1.48''	8' 4.48''	12' 5.39''
7' 9.58''	10' 7.95''	7' 8.08''	10' 10.93''
7' 5.11''	9' 11.48''	7' 3.76''	10' 2.06''
7' 0.57''	9' 3.2''	6' 11.36''	9' 5.41''
6' 7.95''	8' 7.1''	6' 6.88''	8' 8.98''
6' 3.26''	7' 11.18''	6' 2.32''	8' 0.77''
5' 10.48''	7' 3.43''	5' 9.67''	7' 4.75''
5' 5.62''	6' 7.85''	5' 4.92''	6' 8.93''
5' 0.68''	6' 0.42''	5' 0.09''	6' 1.3''
4' 7.65''	5' 5.15''	4' 7.16''	5' 5.85''
4' 2.52''	4' 10.04''	4' 2.13''	4' 10.58''
3' 9.31''	4' 3.06''	3' 9''	4' 3.47''
3' 6.67''	3' 11.63''	3' 6.4''	3' 11.98''
3' 4''	3' 8.23''	3' 3.77''	3' 8.53''
3' 1.31''	3' 4.87''	3' 1.11''	3' 5.11''
2' 10.59''	3' 1.54''	2' 10.43''	3' 1.74''
2' 8.77''	2' 11.34''	2' 8.63''	2' 11.51''

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Focal Length 135 mm

Circle of Confusion 0.025 mm

T/No	1.9	2	2.2	2.5	2.8	3.2	3.5
Hyperfocal Distance (ft-inch)	1232' 1.59''	1170' 6.93''	1042' 11.75''	929' 3.61''	828' 0.3''	737' 9.58''	657' 5.02''

T/No	1.9		2		2.2		2.5		2.8		3.2		3.5	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	1231' 2.81''	Infinity	1169' 8.69''	Infinity	1042' 2.53''	Infinity	928' 7.22''	Infinity	827' 4.56''	Infinity	737' 2.36''	Infinity	656' 10.18''	Infinity
120' 0''	109' 5.73''	132' 9.28''	108' 11.7''	133' 6.26''	107' 9.16''	135' 4.69''	106' 5.22''	137' 6.64''	104' 11.79''	140' 0.76''	103' 4.79''	142' 11.93''	101' 8.14''	146' 5.2''
60' 0''	57' 3.41''	62' 11.86''	57' 1.78''	63' 1.85''	56' 9.82''	63' 6.77''	56' 5.42''	64' 0.36''	56' 0.55''	64' 6.73''	55' 7.17''	65' 2.02''	55' 1.24''	65' 10.37''
40' 0''	38' 9.49''	41' 3.46''	38' 8.75''	41' 4.3''	38' 6.95''	41' 6.37''	38' 4.95''	41' 8.72''	38' 2.72''	41' 11.38''	38' 0.25''	42' 2.41''	37' 9.5''	42' 5.85''
30' 0''	29' 3.89''	30' 8.5''	29' 3.47''	30' 8.96''	29' 2.45''	30' 10.09''	29' 1.32''	30' 11.37''	29' 0.06''	31' 0.81''	28' 10.65''	31' 2.44''	28' 9.08''	31' 4.29''
25' 0''	24' 6.41''	25' 5.82''	24' 6.12''	25' 6.13''	24' 5.41''	25' 6.9''	24' 4.63''	25' 7.76''	24' 3.75''	25' 8.74''	24' 2.77''	25' 9.85''	24' 1.68''	25' 11.1''
20' 0''	19' 8.47''	20' 3.64''	19' 8.28''	20' 3.84''	19' 7.84''	20' 4.32''	19' 7.34''	20' 4.86''	19' 6.78''	20' 5.47''	19' 6.15''	20' 6.15''	19' 5.46''	20' 6.93''
15' 0''	14' 10.06''	15' 1.98''	14' 9.96''	15' 2.09''	14' 9.71''	15' 2.35''	14' 9.44''	15' 2.64''	14' 9.13''	15' 2.97''	14' 8.78''	15' 3.34''	14' 8.4''	15' 3.76''
12' 0''	11' 10.79''	12' 1.23''	11' 10.73''	12' 1.3''	11' 10.57''	12' 1.46''	11' 10.4''	12' 1.64''	11' 10.21''	12' 1.84''	11' 9.99''	12' 2.07''	11' 9.75''	12' 2.33''
11' 0''	10' 11''	11' 1.02''	10' 10.94''	11' 1.07''	10' 10.82''	11' 1.21''	10' 10.67''	11' 1.36''	10' 10.51''	11' 1.52''	10' 10.33''	11' 1.71''	10' 10.13''	11' 1.93''
10' 0''	9' 11.18''	10' 0.83''	9' 11.14''	10' 0.87''	9' 11.04''	10' 0.98''	9' 10.92''	10' 1.1''	9' 10.79''	10' 1.24''	9' 10.64''	10' 1.39''	9' 10.48''	10' 1.56''
9' 0''	8' 11.35''	9' 0.66''	8' 11.32''	9' 0.69''	8' 11.23''	9' 0.78''	8' 11.14''	9' 0.87''	8' 11.04''	9' 0.98''	8' 10.92''	9' 1.1''	8' 10.79''	9' 1.24''
8' 6''	8' 5.43''	8' 6.58''	8' 5.4''	8' 6.61''	8' 5.32''	8' 6.69''	8' 5.24''	8' 6.77''	8' 5.15''	8' 6.86''	8' 5.05''	8' 6.97''	8' 4.93''	8' 7.09''
8' 0''	7' 11.5''	8' 0.51''	7' 11.47''	8' 0.53''	7' 11.41''	8' 0.6''	7' 11.34''	8' 0.67''	7' 11.26''	8' 0.76''	7' 11.17''	8' 0.85''	7' 11.07''	8' 0.95''
7' 6''	7' 5.57''	7' 6.44''	7' 5.54''	7' 6.46''	7' 5.49''	7' 6.52''	7' 5.43''	7' 6.58''	7' 5.36''	7' 6.65''	7' 5.28''	7' 6.73''	7' 5.19''	7' 6.82''
7' 0''	6' 11.63''	7' 0.37''	6' 11.61''	7' 0.39''	6' 11.56''	7' 0.44''	6' 11.51''	7' 0.5''	6' 11.45''	7' 0.56''	6' 11.38''	7' 0.63''	6' 11.31''	7' 0.71''
6' 6''	6' 5.69''	6' 6.32''	6' 5.67''	6' 6.33''	6' 5.63''	6' 6.37''	6' 5.58''	6' 6.42''	6' 5.53''	6' 6.47''	6' 5.48''	6' 6.53''	6' 5.41''	6' 6.6''
6' 0''	5' 11.74''	6' 0.26''	5' 11.73''	6' 0.28''	5' 11.69''	6' 0.31''	5' 11.65''	6' 0.35''	5' 11.61''	6' 0.39''	5' 11.57''	6' 0.44''	5' 11.51''	6' 0.49''
5' 6''	5' 5.79''	5' 6.21''	5' 5.78''	5' 6.23''	5' 5.75''	5' 6.25''	5' 5.72''	5' 6.28''	5' 5.68''	5' 6.32''	5' 5.65''	5' 6.36''	5' 5.6''	5' 6.4''
5' 0''	4' 11.83''	5' 0.17''	4' 11.82''	5' 0.18''	4' 11.8''	5' 0.2''	4' 11.77''	5' 0.23''	4' 11.75''	5' 0.25''	4' 11.72''	5' 0.29''	4' 11.68''	5' 0.32''
4' 6''	4' 5.87''	4' 6.13''	4' 5.86''	4' 6.14''	4' 5.84''	4' 6.16''	1.367	4' 6.18''	4' 5.8''	4' 6.2''	4' 5.78''	4' 6.22''	4' 5.75''	4' 6.25''
4' 0''	3' 11.9''	4' 0.1''	3' 11.9''	4' 0.1''	3' 11.88''	4' 0.12''	3' 11.87''	4' 0.13''	3' 11.85''	4' 0.15''	3' 11.84''	4' 0.17''	3' 11.82''	4' 0.19''
3' 9''	3' 8.92''	3' 9.08''	3' 8.91''	3' 9.09''	3' 8.9''	3' 9.1''	3' 8.89''	3' 9.11''	3' 8.88''	3' 9.12''	3' 8.86''	3' 9.14''	3' 8.84''	3' 9.16''
3' 6''	3' 5.93''	3' 6.07''	3' 5.93''	3' 6.07''	3' 5.92''	3' 6.08''	3' 5.91''	3' 6.09''	3' 5.9''	3' 6.1''	3' 5.88''	3' 6.12''	3' 5.87''	3' 6.13''
3' 3''	3' 2.94''	3' 3.06''	3' 2.94''	3' 3.06''	3' 2.93''	3' 3.07''	3' 2.92''	3' 3.08''	3' 2.91''	3' 3.09''	3' 2.9''	3' 3.1''	3' 2.89''	3' 3.11''

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4	4.5	5	5.6	6.3	7.1	8	9
585' 9.65''	522' 0.06''	465' 2.01''	414' 6.33''	369' 4.99''	329' 2.71''	293' 5.02''	261' 6.23''

4		4.5		5		5.6		6.3		7.1		8		9	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
585' 3.16''	Infinity	521' 5.82''	Infinity	464' 7.96''	Infinity	414' 0.47''	Infinity	368' 11.24''	Infinity	328' 9.04''	Infinity	292' 11.45''	Infinity	261' 0.72''	Infinity
99' 9.77''	150' 5.96''	97' 9.62''	155' 4.04''	95' 7.65''	161' 1.87''	93' 3.85''	168' 2.78''	90' 10.22''	176' 11.47''	88' 2.78''	187' 10.76''	85' 5.59''	201' 10.99''	82' 6.76''	220' 4.56''
54' 6.7''	66' 7.95''	53' 11.51''	67' 6.99''	53' 3.64''	68' 7.75''	52' 7.03''	69' 10.57''	51' 9.63''	71' 3.86''	50' 11.42''	73' 0.14''	50' 0.36''	75' 0.1''	49' 0.41''	77' 4.6''
37' 6.46''	42' 9.76''	37' 3.09''	43' 2.23''	36' 11.37''	43' 7.34''	36' 7.27''	44' 1.2''	36' 2.76''	44' 7.94''	35' 9.81''	45' 3.71''	35' 4.39''	46' 0.72''	34' 10.46''	46' 11.19''
28' 7.34''	31' 6.39''	28' 5.41''	31' 8.78''	28' 3.27''	31' 11.49''	28' 0.9''	32' 2.58''	27' 10.27''	32' 6.12''	27' 7.38''	32' 10.16''	27' 4.19''	33' 2.81''	27' 0.68''	33' 8.15''
24' 0.47''	26' 0.52''	23' 11.12''	26' 2.12''	23' 9.62''	26' 3.95''	23' 7.95''	26' 6.02''	23' 6.11''	26' 8.38''	23' 4.07''	26' 11.07''	23' 1.81''	27' 2.15''	22' 11.32''	27' 5.68''
19' 4.68''	20' 7.81''	19' 3.82''	20' 8.8''	19' 2.86''	20' 9.92''	19' 1.79''	20' 11.2''	19' 0.6''	21' 0.64''	18' 11.28''	21' 2.29''	18' 9.81''	21' 4.16''	18' 8.19''	21' 6.29''
14' 7.97''	15' 4.23''	14' 7.49''	15' 4.76''	14' 6.95''	15' 5.36''	14' 6.35''	15' 6.04''	14' 5.68''	15' 6.81''	14' 4.94''	15' 7.69''	14' 4.12''	15' 8.67''	14' 3.2''	15' 9.8''
11' 9.48''	12' 2.62''	11' 9.18''	12' 2.94''	11' 8.84''	12' 3.31''	11' 8.46''	12' 3.73''	11' 8.04''	12' 4.2''	11' 7.57''	12' 4.73''	11' 7.05''	12' 5.34''	11' 6.47''	12' 6.02''
10' 9.91''	11' 2.17''	10' 9.66''	11' 2.44''	10' 9.37''	11' 2.74''	10' 9.06''	11' 3.09''	10' 8.71''	11' 3.47''	10' 8.32''	11' 3.91''	10' 7.88''	11' 4.41''	10' 7.4''	11' 4.97''
9' 10.29''	10' 1.76''	9' 10.09''	10' 1.98''	9' 9.86''	10' 2.22''	9' 9.6''	10' 2.5''	9' 9.32''	10' 2.82''	9' 9''	10' 3.17''	9' 8.64''	10' 3.57''	9' 8.24''	10' 4.03''
8' 10.64''	9' 1.39''	8' 10.48''	9' 1.57''	8' 10.3''	9' 1.76''	8' 10.09''	9' 1.98''	8' 9.86''	9' 2.23''	8' 9.61''	9' 2.51''	8' 9.32''	9' 2.83''	8' 9.01''	9' 3.18''
8' 4.8''	8' 7.23''	8' 4.66''	8' 7.38''	8' 4.5''	8' 7.55''	8' 4.32''	8' 7.75''	8' 4.11''	8' 7.96''	8' 3.89''	8' 8.21''	8' 3.64''	8' 8.49''	8' 3.36''	8' 8.8''
7' 10.95''	8' 1.07''	7' 10.83''	8' 1.21''	7' 10.69''	8' 1.35''	7' 10.53''	8' 1.52''	7' 10.35''	8' 1.71''	7' 10.15''	8' 1.93''	7' 9.93''	8' 2.17''	7' 9.68''	8' 2.44''
7' 5.09''	7' 6.93''	7' 4.98''	7' 7.04''	7' 4.86''	7' 7.17''	7' 4.72''	7' 7.32''	7' 4.57''	7' 7.48''	7' 4.4''	7' 7.67''	7' 4.21''	7' 7.88''	7' 3.99''	7' 8.11''
6' 11.22''	7' 0.79''	6' 11.13''	7' 0.89''	6' 11.02''	7' 1''	6' 10.91''	7' 1.13''	6' 10.77''	7' 1.27''	6' 10.63''	7' 1.42''	6' 10.46''	7' 1.6''	6' 10.28''	7' 1.8''
6' 5.34''	6' 6.67''	6' 5.26''	6' 6.75''	6' 5.17''	6' 6.85''	6' 5.07''	6' 6.95''	6' 4.96''	6' 7.07''	6' 4.84''	6' 7.2''	6' 4.7''	6' 7.35''	6' 4.54''	6' 7.52''
5' 11.45''	6' 0.56''	5' 11.39''	6' 0.62''	5' 11.31''	6' 0.7''	5' 11.23''	6' 0.79''	5' 11.14''	6' 0.89''	5' 11.03''	6' 1''	5' 10.92''	6' 1.12''	5' 10.79''	6' 1.26''
5' 5.55''	5' 6.45''	5' 5.5''	5' 6.51''	5' 5.44''	5' 6.57''	5' 5.37''	5' 6.64''	5' 5.29''	5' 6.72''	5' 5.21''	5' 6.81''	5' 5.11''	5' 6.91''	5' 5.01''	5' 7.03''
4' 11.64''	5' 0.36''	4' 11.6''	5' 0.41''	4' 11.55''	5' 0.46''	4' 11.5''	5' 0.51''	4' 11.44''	5' 0.58''	4' 11.37''	5' 0.65''	4' 11.29''	5' 0.73''	4' 11.21''	5' 0.82''
4' 5.72''	4' 6.28''	4' 5.69''	4' 6.31''	4' 5.65''	4' 6.35''	4' 5.61''	4' 6.4''	4' 5.56''	4' 6.45''	4' 5.51''	4' 6.5''	4' 5.45''	4' 6.56''	4' 5.38''	4' 6.63''
3' 11.79''	4' 0.21''	3' 11.77''	4' 0.23''	3' 11.74''	4' 0.26''	3' 11.71''	4' 0.3''	3' 11.67''	4' 0.33''	3' 11.63''	4' 0.37''	3' 11.59''	4' 0.42''	3' 11.54''	4' 0.47''
3' 8.82''	3' 9.18''	3' 8.8''	3' 9.2''	3' 8.78''	3' 9.22''	3' 8.75''	3' 9.25''	3' 8.72''	3' 9.28''	3' 8.69''	3' 9.32''	3' 8.65''	3' 9.36''	3' 8.61''	3' 9.4''
3' 5.85''	3' 6.15''	3' 5.84''	3' 6.17''	3' 5.82''	3' 6.19''	3' 5.79''	3' 6.21''	3' 5.77''	3' 6.24''	3' 5.74''	3' 6.26''	3' 5.71''	3' 6.3''	3' 5.67''	3' 6.33''
3' 2.88''	3' 3.12''	3' 2.86''	3' 3.14''	3' 2.85''	3' 3.15''	3' 2.83''	3' 3.17''	3' 2.81''	3' 3.19''	3' 2.79''	3' 3.22''	3' 2.76''	3' 3.24''	3' 2.73''	3' 3.27''

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10	11	13	14	16	18	20	22
233' 1.2''	207' 9.35''	185' 2.68''	165' 1.54''	147' 2.69''	131' 3.31''	117' 0.76''	104' 4.87''

10		11		13		14		16		18		20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
232' 7.73''	Infinity	207' 3.95''	Infinity	184' 9.3''	Infinity	164' 8.18''	Infinity	146' 9.36''	Infinity	130' 9.98''	Infinity	116' 7.48''	Infinity	103' 11.57''	Infinity
79' 6.39''	245' 7.25''	76' 4.64''	281' 9.99''	73' 1.7''	337' 9.6''	69' 9.78''	434' 9.44''	66' 5.12''	641' 9.5''	62' 11.97''	1379' 11.27''	59' 6.61''	Infinity	56' 1.31''	Infinity
47' 11.56''	80' 2.85''	46' 9.8''	83' 8.46''	45' 7.12''	87' 11.7''	44' 3.55''	93' 3.87''	42' 11.1''	100' 1.95''	41' 5.83''	109' 1.8''	39' 11.79''	121' 4.66''	38' 5.06''	138' 10.67''
34' 4.01''	47' 11.43''	33' 9.01''	49' 1.83''	33' 1.42''	50' 6.89''	32' 5.25''	52' 3.27''	31' 8.48''	54' 3.86''	30' 11.1''	56' 9.89''	30' 1.11''	59' 11.12''	29' 2.54''	63' 10.12''
26' 8.84''	34' 2.33''	26' 4.63''	34' 9.5''	26' 0.04''	35' 5.86''	25' 7.05''	36' 3.65''	25' 1.64''	37' 3.2''	24' 7.79''	38' 4.94''	24' 1.5''	39' 9.41''	23' 6.76''	41' 5.39''
22' 8.58''	27' 9.73''	22' 5.57''	28' 2.41''	22' 2.28''	28' 7.81''	21' 10.67''	29' 2.1''	21' 6.75''	29' 9.43''	21' 2.48''	30' 6.05''	20' 9.86''	31' 4.25''	20' 4.87''	32' 4.41''
18' 6.4''	21' 8.73''	18' 4.43''	21' 11.52''	18' 2.26''	22' 2.74''	17' 11.87''	22' 6.44''	17' 9.25''	22' 10.72''	17' 6.39''	23' 3.7''	17' 3.28''	23' 9.51''	16' 11.89''	24' 4.34''
14' 2.18''	15' 11.07''	14' 1.06''	16' 0.53''	13' 11.81''	16' 2.19''	13' 10.44''	16' 4.09''	13' 8.92''	16' 6.26''	13' 7.25''	16' 8.77''	13' 5.42''	16' 11.66''	13' 3.42''	17' 3.01''
11' 5.82''	12' 6.79''	11' 5.1''	12' 7.67''	11' 4.31''	12' 8.67''	11' 3.42''	12' 9.8''	11' 2.45''	12' 11.1''	11' 1.37''	13' 0.59''	11' 0.18''	13' 2.29''	10' 10.87''	13' 4.25''
10' 6.86''	11' 5.61''	10' 6.26''	11' 6.33''	10' 5.59''	11' 7.15''	10' 4.85''	11' 8.08''	10' 4.03''	11' 9.14''	10' 3.12''	11' 10.35''	10' 2.12''	11' 11.74''	10' 1.02''	12' 1.33''
9' 7.8''	10' 4.54''	9' 7.31''	10' 5.12''	9' 6.76''	10' 5.78''	9' 6.15''	10' 6.53''	9' 5.48''	10' 7.38''	9' 4.73''	10' 8.35''	9' 3.9''	10' 9.46''	9' 2.99''	10' 10.72''
8' 8.65''	9' 3.59''	8' 8.26''	9' 4.04''	8' 7.82''	9' 4.56''	8' 7.33''	9' 5.15''	8' 6.79''	9' 5.82''	8' 6.18''	9' 6.57''	8' 5.52''	9' 7.44''	8' 4.78''	9' 8.43''
8' 3.04''	8' 9.16''	8' 2.69''	8' 9.56''	8' 2.3''	8' 10.01''	8' 1.87''	8' 10.52''	8' 1.39''	8' 11.11''	8' 0.85''	8' 11.77''	8' 0.26''	9' 0.53''	7' 11.61''	9' 1.39''
7' 9.41''	8' 2.75''	7' 9.1''	8' 3.1''	7' 8.76''	8' 3.49''	7' 8.38''	8' 3.94''	7' 7.96''	8' 4.45''	7' 7.49''	8' 5.02''	7' 6.96''	8' 5.68''	7' 6.39''	8' 6.42''
7' 3.75''	7' 8.38''	7' 3.49''	7' 8.68''	7' 3.19''	7' 9.02''	7' 2.86''	7' 9.4''	7' 2.49''	7' 9.84''	7' 2.08''	7' 10.33''	7' 1.62''	7' 10.89''	7' 1.12''	7' 11.53''
6' 10.07''	7' 2.03''	6' 9.84''	7' 2.29''	6' 9.59''	7' 2.57''	6' 9.3''	7' 2.9''	6' 8.98''	7' 3.27''	6' 8.63''	7' 3.69''	6' 8.24''	7' 4.17''	6' 7.8''	7' 4.71''
6' 4.37''	6' 7.71''	6' 4.17''	6' 7.93''	6' 3.96''	6' 8.17''	6' 3.71''	6' 8.44''	6' 3.44''	6' 8.75''	6' 3.14''	6' 9.11''	6' 2.81''	6' 9.51''	6' 2.44''	6' 9.96''
5' 10.64''	6' 1.42''	5' 10.48''	6' 1.6''	5' 10.3''	6' 1.8''	5' 10.09''	6' 2.03''	5' 9.87''	6' 2.28''	5' 9.62''	6' 2.57''	5' 9.34''	6' 2.9''	5' 9.02''	6' 3.28''
5' 4.89''	5' 7.16''	5' 4.75''	5' 7.3''	5' 4.61''	5' 7.46''	5' 4.44''	5' 7.65''	5' 4.25''	5' 7.86''	5' 4.05''	5' 8.09''	5' 3.82''	5' 8.36''	5' 3.56''	5' 8.66''
4' 11.11''	5' 0.92''	4' 11''	5' 1.03''	4' 10.88''	5' 1.16''	4' 10.75''	5' 1.31''	4' 10.6''	5' 1.48''	4' 10.44''	5' 1.66''	4' 10.25''	5' 1.87''	4' 10.04''	5' 2.11''
4' 5.31''	4' 6.71''	4' 5.23''	4' 6.8''	4' 5.13''	4' 6.9''	4' 5.03''	4' 7.01''	4' 4.91''	4' 7.14''	4' 4.78''	4' 7.28''	4' 4.64''	4' 7.44''	4' 4.48''	4' 7.63''
3' 11.48''	4' 0.53''	3' 11.42''	4' 0.6''	3' 11.35''	4' 0.67''	3' 11.27''	4' 0.75''	3' 11.19''	4' 0.85''	3' 11.09''	4' 0.95''	3' 10.98''	4' 1.07''	3' 10.86''	4' 1.21''
3' 8.56''	3' 9.45''	3' 8.51''	3' 9.5''	3' 8.45''	3' 9.57''	3' 8.38''	3' 9.64''	3' 8.31''	3' 9.72''	3' 8.23''	3' 9.81''	3' 8.13''	3' 9.91''	3' 8.03''	3' 10.02''
3' 5.63''	3' 6.38''	3' 5.59''	3' 6.42''	3' 5.54''	3' 6.47''	3' 5.48''	3' 6.53''	3' 5.42''	3' 6.6''	3' 5.35''	3' 6.67''	3' 5.27''	3' 6.76''	3' 5.19''	3' 6.85''
3' 2.7''	3' 3.31''	3' 2.66''	3' 3.35''	3' 2.62''	3' 3.39''	3' 2.57''	3' 3.44''	3' 2.52''	3' 3.49''	3' 2.47''	3' 3.55''	3' 2.4''	3' 3.62''	3' 2.33''	3' 3.7''

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Focal Length 66 mm

Circle of Confusion 0.025 mm

T/No	2.1	2.2	2.5	2.8	3.2	3.5	4
Hyperfocal Distance (ft-inch)	271' 11.07''	254' 4.72''	226' 8.12''	201' 11.86''	179' 11.88''	160' 4.72''	142' 11.2''

T/No	2.1		2.2		2.5		2.8		3.2		3.5		4	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	271' 8.2''	Infinity	254' 1.87''	Infinity	226' 5.34''	Infinity	201' 9.1''	Infinity	179' 9.16''	Infinity	160' 2.02''	Infinity	142' 8.54''	Infinity
120' 0''	83' 4.18''	214' 4.5''	81' 7.54''	226' 8.23''	78' 6.65''	254' 4.83''	75' 4.43''	294' 10.54''	72' 1.06''	359' 0.02''	68' 8.77''	474' 11.47''	65' 3.81''	745' 2.09''
60' 0''	49' 2.69''	76' 10.09''	48' 7.46''	78' 4.31''	47' 6.23''	81' 4.94''	46' 4.07''	85' 1.62''	45' 1''	89' 8.92''	43' 9.03''	95' 6.59''	42' 4.2''	103' 0.39''
40' 0''	34' 11.1''	46' 9.71''	34' 7.46''	47' 4.4''	34' 0.74''	48' 5.52''	33' 5.45''	49' 8.99''	32' 9.57''	51' 3.38''	32' 1.08''	53' 1.41''	31' 3.99''	55' 4.11''
30' 0''	27' 0.76''	33' 7.87''	26' 10.58''	33' 11.3''	26' 6.53''	34' 5.96''	26' 2.1''	35' 1.71''	25' 9.28''	35' 10.76''	25' 4.04''	36' 9.4''	24' 10.36''	37' 9.98''
25' 0''	22' 11.2''	27' 5.75''	22' 9.64''	27' 8.02''	22' 6.73''	28' 0.42''	22' 3.54''	28' 5.5''	22' 0.04''	28' 11.39''	21' 8.23''	29' 6.25''	21' 4.07''	30' 2.28''
20' 0''	18' 7.94''	21' 6.56''	18' 6.91''	21' 7.95''	18' 4.99''	21' 10.62''	18' 2.87''	22' 1.69''	18' 0.53''	22' 5.23''	17' 9.97''	22' 9.31''	17' 7.17''	23' 2.04''
15' 0''	14' 2.89''	15' 10.15''	14' 2.3''	15' 10.89''	14' 1.18''	16' 0.32''	13' 11.94''	16' 1.94''	13' 10.58''	16' 3.8''	13' 9.07''	16' 5.93''	13' 7.42''	16' 8.38''
12' 0''	11' 6.16''	12' 6.36''	11' 5.77''	12' 6.82''	11' 5.05''	12' 7.7''	11' 4.24''	12' 8.7''	11' 3.35''	12' 9.84''	11' 2.37''	12' 11.14''	11' 1.27''	13' 0.63''
11' 0''	10' 7.1''	11' 5.3''	10' 6.77''	11' 5.69''	10' 6.16''	11' 6.42''	10' 5.48''	11' 7.25''	10' 4.73''	11' 8.19''	10' 3.89''	11' 9.26''	10' 2.97''	11' 10.49''
10' 0''	9' 7.95''	10' 4.35''	9' 7.68''	10' 4.66''	9' 7.18''	10' 5.25''	9' 6.61''	10' 5.93''	9' 5.99''	10' 6.7''	9' 5.29''	10' 7.57''	9' 4.52''	10' 8.56''
9' 0''	8' 8.73''	9' 3.49''	8' 8.51''	9' 3.73''	8' 8.1''	9' 4.21''	8' 7.64''	9' 4.75''	8' 7.13''	9' 5.36''	8' 6.57''	9' 6.05''	8' 5.94''	9' 6.84''
8' 6''	8' 3.09''	8' 9.09''	8' 2.89''	8' 9.31''	8' 2.53''	8' 9.73''	8' 2.12''	8' 10.21''	8' 1.66''	8' 10.75''	8' 1.16''	8' 11.36''	8' 0.59''	9' 0.06''
8' 0''	7' 9.43''	8' 2.72''	7' 9.25''	8' 2.92''	7' 8.93''	8' 3.29''	7' 8.57''	8' 3.71''	7' 8.16''	8' 4.18''	7' 7.71''	8' 4.72''	7' 7.21''	8' 5.33''
7' 6''	7' 3.74''	7' 8.38''	7' 3.59''	7' 8.55''	7' 3.31''	7' 8.87''	7' 2.99''	7' 9.23''	7' 2.63''	7' 9.65''	7' 2.24''	7' 10.11''	7' 1.8''	7' 10.64''
7' 0''	6' 10.04''	7' 2.06''	6' 9.91''	7' 2.2''	6' 9.66''	7' 2.48''	6' 9.38''	7' 2.8''	6' 9.07''	7' 3.15''	6' 8.73''	7' 3.55''	6' 8.35''	7' 4.01''
6' 6''	6' 4.32''	6' 7.76''	6' 4.2''	6' 7.88''	6' 3.99''	6' 8.12''	6' 3.75''	6' 8.39''	6' 3.49''	6' 8.69''	6' 3.19''	6' 9.04''	6' 2.86''	6' 9.42''
6' 0''	5' 10.57''	6' 1.49''	5' 10.48''	6' 1.59''	5' 10.3''	6' 1.79''	5' 10.09''	6' 2.02''	5' 9.87''	6' 2.27''	5' 9.61''	6' 2.56''	5' 9.33''	6' 2.89''
5' 6''	5' 4.81''	5' 7.24''	5' 4.73''	5' 7.32''	5' 4.58''	5' 7.49''	5' 4.41''	5' 7.68''	5' 4.22''	5' 7.89''	5' 4.01''	5' 8.13''	5' 3.77''	5' 8.4''
5' 0''	4' 11.02''	5' 1.01''	4' 10.96''	5' 1.08''	4' 10.83''	5' 1.22''	4' 10.69''	5' 1.37''	4' 10.54''	5' 1.54''	4' 10.36''	5' 1.73''	4' 10.17''	5' 1.95''
4' 6''	4' 5.22''	4' 6.81''	4' 5.16''	4' 6.86''	4' 5.06''	4' 6.97''	1.345	4' 7.09''	4' 4.83''	4' 7.23''	4' 4.69''	4' 7.38''	4' 4.53''	4' 7.56''
4' 0''	3' 11.39''	4' 0.63''	3' 11.35''	4' 0.67''	3' 11.27''	4' 0.75''	3' 11.18''	4' 0.85''	3' 11.08''	4' 0.95''	3' 10.98''	4' 1.07''	3' 10.85''	4' 1.21''
3' 6''	3' 5.54''	3' 6.47''	3' 5.51''	3' 6.5''	3' 5.45''	3' 6.56''	3' 5.39''	3' 6.63''	3' 5.31''	3' 6.71''	3' 5.23''	3' 6.8''	3' 5.14''	3' 6.9''
3' 0''	2' 11.67''	3' 0.33''	2' 11.65''	3' 0.36''	2' 11.61''	3' 0.4''	2' 11.56''	3' 0.45''	2' 11.51''	3' 0.51''	2' 11.45''	3' 0.57''	2' 11.38''	3' 0.64''
2' 9''	2' 8.73''	2' 9.28''	2' 8.71''	2' 9.3''	2' 8.68''	2' 9.33''	2' 8.64''	2' 9.37''	2' 8.59''	2' 9.42''	2' 8.54''	2' 9.47''	2' 8.49''	2' 9.53''
2' 6''	2' 5.78''	2' 6.22''	2' 5.77''	2' 6.24''	2' 5.74''	2' 6.27''	2' 5.71''	2' 6.3''	2' 5.67''	2' 6.34''	2' 5.63''	2' 6.38''	2' 5.58''	2' 6.43''
2' 3''	2' 2.83''	2' 3.18''	2' 2.81''	2' 3.19''	2' 2.79''	2' 3.21''	2' 2.77''	2' 3.24''	2' 2.74''	2' 3.27''	2' 2.71''	2' 3.3''	2' 2.67''	2' 3.34''
2' 0''	1' 11.87''	2' 0.13''	1' 11.86''	2' 0.14''	1' 11.84''	2' 0.16''	1' 11.82''	2' 0.18''	1' 11.8''	2' 0.2''	1' 11.78''	2' 0.23''	1' 11.75''	2' 0.26''

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4.5	5	5.6	6.3	7.1	8	9	10
127' 4.54''	113' 6.28''	101' 2.13''	90' 2.17''	80' 4.57''	71' 7.8''	63' 10.5''	56' 11.35''

4.5		5		5.6		6.3		7.1		8		9		10	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
127' 1.9''	Infinity	113' 3.63''	Infinity	100' 11.5''	Infinity	89' 11.52''	Infinity	80' 1.95''	Infinity	71' 5.2''	Infinity	63' 7.88''	Infinity	56' 8.74''	Infinity
61' 10.43''	2062' 9.97''	58' 4.9''	Infinity	54' 11.51''	Infinity	51' 6.52''	Infinity	48' 2.21''	Infinity	44' 10.8''	Infinity	41' 8.53''	Infinity	38' 7.59''	Infinity
40' 10.54''	112' 11.6''	39' 4.14''	126' 8.15''	37' 9.07''	146' 8.05''	36' 1.43''	178' 3.08''	34' 5.32''	235' 1.35''	32' 8.87''	366' 3.78''	31' 0.21''	981' 3.05''	29' 3.47''	Infinity
30' 6.28''	58' 0.88''	29' 7.96''	61' 5.76''	28' 9.06''	65' 9.77''	27' 9.59''	71' 5.67''	26' 9.6''	79' 1.32''	25' 9.14''	89' 10.75''	24' 8.25''	106' 1.8''	23' 7.02''	133' 2.37''
24' 4.24''	39' 0.99''	23' 9.67''	40' 7.07''	23' 2.63''	42' 5.11''	22' 7.14''	44' 8.37''	21' 11.2''	47' 6.67''	21' 2.83''	51' 2.82''	20' 6.04''	56' 1.32''	19' 8.89''	62' 9.89''
20' 11.57''	30' 11.74''	20' 6.69''	31' 10.97''	20' 1.45''	33' 0.42''	19' 7.82''	34' 4.69''	19' 1.81''	36' 0.62''	18' 7.42''	38' 1.44''	18' 0.67''	40' 8.94''	17' 5.56''	44' 1.92''
17' 4.11''	23' 7.55''	17' 0.79''	24' 2''	16' 9.18''	24' 9.6''	16' 5.28''	25' 6.63''	16' 1.07''	26' 5.44''	15' 8.57''	27' 6.53''	15' 3.76''	28' 10.58''	14' 10.64''	30' 6.56''
13' 5.59''	16' 11.2''	13' 3.6''	17' 2.46''	13' 1.42''	17' 6.25''	12' 11.04''	17' 10.68''	12' 8.45''	18' 3.88''	12' 5.65''	18' 10.02''	12' 2.63''	19' 5.34''	11' 11.39''	20' 2.15''
11' 0.07''	13' 2.33''	10' 10.75''	13' 4.29''	10' 9.29''	13' 6.55''	10' 7.7''	13' 9.15''	10' 5.95''	14' 0.19''	10' 4.05''	14' 3.72''	10' 1.99''	14' 7.88''	9' 11.75''	15' 0.8''
10' 1.94''	11' 11.89''	10' 0.82''	12' 1.5''	9' 11.58''	12' 3.35''	9' 10.22''	12' 5.48''	9' 8.73''	12' 7.95''	9' 7.1''	12' 10.82''	9' 5.33''	13' 2.18''	9' 3.41''	13' 6.12''
9' 3.67''	10' 9.7''	9' 2.73''	10' 11''	9' 1.69''	11' 0.48''	9' 0.55''	11' 2.2''	8' 11.3''	11' 4.17''	8' 9.93''	11' 6.46''	8' 8.44''	11' 9.13''	8' 6.81''	12' 0.25''
8' 5.24''	9' 7.74''	8' 4.47''	9' 8.77''	8' 3.63''	9' 9.94''	8' 2.69''	9' 11.29''	8' 1.66''	10' 0.84''	8' 0.53''	10' 2.63''	7' 11.29''	10' 4.7''	7' 9.94''	10' 7.12''
7' 11.97''	9' 0.85''	7' 11.28''	9' 1.76''	7' 10.52''	9' 2.79''	7' 9.68''	9' 3.97''	7' 8.76''	9' 5.33''	7' 7.74''	9' 6.9''	7' 6.63''	9' 8.71''	7' 5.41''	9' 10.82''
7' 6.66''	8' 6.02''	7' 6.05''	8' 6.81''	7' 5.37''	8' 7.71''	7' 4.62''	8' 8.75''	7' 3.8''	8' 9.93''	7' 2.89''	8' 11.29''	7' 1.9''	9' 0.86''	7' 0.81''	9' 2.69''
7' 1.31''	7' 11.25''	7' 0.77''	7' 11.93''	7' 0.17''	8' 0.71''	6' 11.51''	8' 1.61''	6' 10.78''	8' 2.63''	6' 9.98''	8' 3.8''	6' 9.1''	8' 5.16''	6' 8.13''	8' 6.72''
6' 7.92''	7' 4.53''	6' 7.45''	7' 5.12''	6' 6.93''	7' 5.79''	6' 6.35''	7' 6.55''	6' 5.71''	7' 7.43''	6' 5.01''	7' 8.43''	6' 4.23''	7' 9.58''	6' 3.38''	7' 10.91''
6' 2.49''	6' 9.86''	6' 2.08''	6' 10.36''	6' 1.63''	6' 10.93''	6' 1.13''	6' 11.58''	6' 0.58''	7' 0.32''	5' 11.97''	7' 1.17''	5' 11.29''	7' 2.14''	5' 10.55''	7' 3.26''
5' 9.02''	6' 3.26''	5' 8.67''	6' 3.68''	5' 8.29''	6' 4.15''	5' 7.86''	6' 4.7''	5' 7.39''	6' 5.31''	5' 6.86''	6' 6.02''	5' 6.28''	6' 6.83''	5' 5.65''	6' 7.76''
5' 3.51''	5' 8.7''	5' 3.22''	5' 9.05''	5' 2.89''	5' 9.44''	5' 2.53''	5' 9.89''	5' 2.13''	5' 10.4''	5' 1.69''	5' 10.98''	5' 1.2''	5' 11.64''	5' 0.66''	6' 0.4''
4' 9.95''	5' 2.2''	4' 9.71''	5' 2.48''	4' 9.44''	5' 2.8''	4' 9.15''	5' 3.16''	4' 8.82''	5' 3.57''	4' 8.45''	5' 4.04''	4' 8.05''	5' 4.58''	4' 7.6''	5' 5.19''
4' 4.36''	4' 7.75''	4' 4.16''	4' 7.98''	4' 3.95''	4' 8.23''	4' 3.71''	4' 8.52''	4' 3.44''	4' 8.84''	4' 3.14''	4' 9.21''	4' 2.81''	4' 9.63''	4' 2.45''	4' 10.11''
3' 10.72''	4' 1.36''	3' 10.56''	4' 1.53''	3' 10.39''	4' 1.73''	3' 10.21''	4' 1.95''	3' 9.99''	4' 2.2''	3' 9.76''	4' 2.48''	3' 9.5''	4' 2.8''	3' 9.21''	4' 3.17''
3' 5.03''	3' 7.02''	3' 4.92''	3' 7.14''	3' 4.79''	3' 7.29''	3' 4.65''	3' 7.45''	3' 4.49''	3' 7.64''	3' 4.31''	3' 7.85''	3' 4.11''	3' 8.08''	3' 3.89''	3' 8.35''
2' 11.31''	3' 0.72''	2' 11.22''	3' 0.81''	2' 11.13''	3' 0.92''	2' 11.03''	3' 1.03''	2' 10.91''	3' 1.16''	2' 10.78''	3' 1.31''	2' 10.64''	3' 1.48''	2' 10.48''	3' 1.67''
2' 8.43''	2' 9.6''	2' 8.36''	2' 9.67''	2' 8.28''	2' 9.75''	2' 8.19''	2' 9.85''	2' 8.1''	2' 9.96''	2' 7.99''	2' 10.08''	2' 7.87''	2' 10.21''	2' 7.74''	2' 10.37''
2' 5.53''	2' 6.48''	2' 5.48''	2' 6.54''	2' 5.42''	2' 6.61''	2' 5.35''	2' 6.69''	2' 5.27''	2' 6.77''	2' 5.18''	2' 6.87''	2' 5.08''	2' 6.98''	2' 4.98''	2' 7.1''
2' 2.63''	2' 3.38''	2' 2.59''	2' 3.43''	2' 2.54''	2' 3.48''	2' 2.48''	2' 3.54''	2' 2.42''	2' 3.61''	2' 2.35''	2' 3.68''	2' 2.28''	2' 3.77''	2' 2.19''	2' 3.87''
1' 11.72''	2' 0.29''	1' 11.68''	2' 0.32''	1' 11.65''	2' 0.36''	1' 11.6''	2' 0.41''	1' 11.56''	2' 0.46''	1' 11.5''	2' 0.52''	1' 11.44''	2' 0.58''	1' 11.38''	2' 0.66''

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11	13	14	16	18	20	22
50' 9.29''	45' 3.27''	40' 4.49''	36' 0.13''	32' 1.43''	28' 7.9''	25' 6.85''

11		13		14		16		18		20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
50' 6.67''	Infinity	45' 0.68''	Infinity	40' 1.89''	Infinity	35' 9.51''	Infinity	31' 10.85''	Infinity	28' 5.28''	Infinity	25' 4.25''	Infinity
35' 8.15''	Infinity	32' 10.33''	Infinity	30' 2.24''	Infinity	27' 7.94''	Infinity	25' 3.48''	Infinity	23' 0.86''	Infinity	21' 0.08''	Infinity
27' 6.8''	Infinity	25' 10.32''	Infinity	24' 2.18''	Infinity	22' 6.49''	Infinity	20' 11.36''	Infinity	19' 4.9''	Infinity	17' 11.18''	Infinity
22' 5.52''	186' 7.18''	21' 3.83''	339' 5.67''	20' 2.03''	Infinity	19' 0.24''	Infinity	17' 10.52''	Infinity	16' 8.98''	Infinity	15' 7.7''	Infinity
18' 11.39''	72' 6.94''	18' 1.61''	87' 10.9''	17' 3.59''	115' 3.06''	16' 5.4''	177' 2.12''	15' 7.1''	447' 0.04''	14' 8.76''	Infinity	13' 10.44''	Infinity
16' 10.12''	48' 8.98''	16' 2.38''	55' 2.28''	15' 6.37''	64' 9.73''	14' 10.14''	80' 7.12''	14' 1.74''	110' 11.42''	13' 5.21''	192' 4.56''	12' 8.62''	1098' 0.94''
14' 5.24''	32' 7.95''	13' 11.55''	35' 5.01''	13' 5.6''	39' 1.5''	12' 11.4''	44' 4.07''	12' 5''	52' 1.77''	11' 10.42''	65' 0.15''	11' 3.71''	89' 11.42''
11' 7.91''	21' 0.88''	11' 4.21''	22' 2.12''	11' 0.28''	23' 6.75''	10' 8.14''	25' 4.09''	10' 3.79''	27' 8.27''	9' 11.26''	30' 10.9''	9' 6.55''	35' 6.64''
9' 9.34''	15' 6.65''	9' 6.75''	16' 1.7''	9' 3.97''	16' 10.29''	9' 1.02''	17' 8.88''	8' 9.88''	18' 10.19''	8' 6.57''	20' 3.29''	8' 3.1''	22' 1.87''
9' 1.32''	13' 10.8''	8' 11.08''	14' 4.38''	8' 8.67''	14' 11.12''	8' 6.09''	15' 7.34''	8' 3.35''	16' 5.53''	8' 0.44''	17' 6.39''	7' 9.38''	18' 10.99''
8' 5.04''	12' 3.92''	8' 3.13''	12' 8.27''	8' 1.07''	13' 1.48''	7' 10.86''	13' 7.76''	7' 8.5''	14' 3.46''	7' 5.98''	15' 1.01''	7' 3.32''	16' 1.11''
7' 8.48''	10' 9.94''	7' 6.88''	11' 1.27''	7' 5.16''	11' 5.21''	7' 3.3''	11' 9.93''	7' 1.31''	12' 3.64''	6' 11.18''	12' 10.63''	6' 8.91''	13' 7.31''
7' 4.08''	10' 1.27''	7' 2.64''	10' 4.15''	7' 1.08''	10' 7.56''	6' 11.39''	10' 11.61''	6' 9.58''	11' 4.49''	6' 7.63''	11' 10.42''	6' 5.56''	12' 5.72''
6' 11.62''	9' 4.8''	6' 10.32''	9' 7.28''	6' 8.91''	9' 10.2''	6' 7.39''	10' 1.66''	6' 5.75''	10' 5.8''	6' 3.99''	10' 10.8''	6' 2.11''	11' 4.91''
6' 7.07''	8' 8.53''	6' 5.91''	8' 10.65''	6' 4.66''	9' 1.13''	6' 3.3''	9' 4.06''	6' 1.83''	9' 7.54''	6' 0.25''	9' 11.73''	5' 10.55''	10' 4.8''
6' 2.44''	8' 0.45''	6' 1.43''	8' 2.24''	6' 0.31''	8' 4.33''	5' 11.11''	8' 6.79''	5' 9.8''	8' 9.7''	5' 8.39''	9' 1.17''	5' 6.88''	9' 5.35''
5' 9.74''	7' 4.55''	5' 8.85''	7' 6.05''	5' 7.88''	7' 7.79''	5' 6.82''	7' 9.83''	5' 5.67''	8' 0.23''	5' 4.43''	8' 3.08''	5' 3.09''	8' 6.49''
5' 4.95''	6' 8.83''	5' 4.18''	6' 10.06''	5' 3.34''	6' 11.5''	5' 2.42''	7' 1.17''	5' 1.43''	7' 3.13''	5' 0.35''	7' 5.44''	4' 11.18''	7' 8.2''
5' 0.07''	6' 1.28''	4' 11.42''	6' 2.28''	4' 10.7''	6' 3.44''	4' 9.92''	6' 4.8''	4' 9.07''	6' 6.37''	4' 8.14''	6' 8.22''	4' 7.14''	6' 10.41''
4' 7.1''	5' 5.89''	4' 6.56''	5' 6.69''	4' 5.96''	5' 7.62''	4' 5.31''	5' 8.69''	4' 4.59''	5' 9.94''	4' 3.81''	5' 11.39''	4' 2.97''	6' 1.1''
4' 2.05''	4' 10.66''	4' 1.6''	4' 11.29''	4' 1.12''	5' 0.01''	4' 0.58''	5' 0.84''	3' 11.99''	5' 1.81''	3' 11.35''	5' 2.93''	3' 10.65''	5' 4.23''
3' 8.9''	4' 3.59''	3' 8.54''	4' 4.06''	3' 8.16''	4' 4.61''	3' 7.73''	4' 5.24''	3' 7.26''	4' 5.96''	3' 6.75''	4' 6.8''	3' 6.18''	4' 7.78''
3' 3.65''	3' 8.66''	3' 3.38''	3' 9.01''	3' 3.08''	3' 9.41''	3' 2.75''	3' 9.87''	3' 2.39''	3' 10.4''	3' 2''	3' 11''	3' 1.56''	3' 11.7''
2' 10.3''	3' 1.88''	2' 10.11''	3' 2.13''	2' 9.89''	3' 2.41''	2' 9.65''	3' 2.73''	2' 9.38''	3' 3.09''	2' 9.09''	3' 3.51''	2' 8.77''	3' 3.99''
2' 7.59''	2' 10.55''	2' 7.43''	2' 10.75''	2' 7.25''	2' 10.97''	2' 7.05''	2' 11.23''	2' 6.82''	2' 11.53''	2' 6.58''	2' 11.87''	2' 6.31''	3' 0.25''
2' 4.86''	2' 7.24''	2' 4.72''	2' 7.4''	2' 4.57''	2' 7.59''	2' 4.41''	2' 7.79''	2' 4.23''	2' 8.03''	2' 4.03''	2' 8.3''	2' 3.8''	2' 8.6''
2' 2.09''	2' 3.98''	2' 1.99''	2' 4.1''	2' 1.87''	2' 4.24''	2' 1.74''	2' 4.4''	2' 1.59''	2' 4.59''	2' 1.43''	2' 4.79''	2' 1.25''	2' 5.03''
1' 11.3''	2' 0.74''	1' 11.22''	2' 0.84''	1' 11.13''	2' 0.94''	1' 11.03''	2' 1.06''	1' 10.92''	2' 1.2''	1' 10.79''	2' 1.36''	1' 10.65''	2' 1.54''

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Focal Length 75 mm

Circle of Confusion 0.025 mm

T/No	2.1	2.2	2.5	2.8	3.2	3.5	4
Hyperfocal Distance (ft-inch)	351' 10.52''	329' 2.31''	293' 3.96''	261' 4.57''	232' 11.04''	207' 6.75''	184' 11.65''

T/No	2.1		2.2		2.5		2.8		3.2		3.5		4	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	351' 7.1''	Infinity	328' 10.95''	Infinity	293' 0.7''	Infinity	261' 1.39''	Infinity	232' 7.88''	Infinity	207' 3.64''	Infinity	184' 8.58''	Infinity
120' 0''	89' 7.32''	181' 8.58''	88' 0.86''	188' 4.88''	85' 3.54''	202' 6.71''	82' 4.56''	221' 2.59''	79' 4.05''	246' 8.74''	76' 2.16''	283' 5.14''	72' 11.08''	340' 3.04''
60' 0''	51' 4.17''	72' 2.16''	50' 10.1''	73' 2.48''	49' 10.92''	75' 2.84''	48' 10.84''	77' 7.84''	47' 9.86''	80' 6.71''	46' 7.96''	84' 1.11''	45' 5.14''	88' 5.37''
40' 0''	35' 11.8''	45' 0.41''	35' 8.83''	45' 5.15''	35' 3.31''	46' 2.37''	34' 9.28''	47' 1.11''	34' 2.71''	48' 1.66''	33' 7.58''	49' 4.44''	32' 11.88''	50' 9.97''
30' 0''	27' 8.35''	32' 8.72''	27' 6.6''	32' 11.2''	27' 3.33''	33' 3.99''	26' 11.73''	33' 9.52''	26' 7.79''	34' 3.9''	26' 3.48''	34' 11.31''	25' 10.78''	35' 7.96''
25' 0''	23' 4.64''	26' 10.26''	23' 3.4''	26' 11.92''	23' 1.07''	27' 3.12''	22' 10.5''	27' 6.78''	22' 7.68''	27' 11''	22' 4.58''	28' 3.86''	22' 1.18''	28' 9.49''
20' 0''	18' 11.54''	21' 1.93''	18' 10.73''	21' 2.95''	18' 9.2''	21' 4.91''	18' 7.52''	21' 7.15''	18' 5.66''	21' 9.71''	18' 3.6''	22' 0.64''	18' 1.34''	22' 4.01''
15' 0''	14' 4.99''	15' 7.62''	14' 4.52''	15' 8.17''	14' 3.65''	15' 9.22''	14' 2.68''	15' 10.42''	14' 1.61''	15' 11.78''	14' 0.42''	16' 1.33''	13' 11.1''	16' 3.1''
12' 0''	11' 7.53''	12' 4.77''	11' 7.23''	12' 5.11''	11' 6.67''	12' 5.76''	11' 6.05''	12' 6.5''	11' 5.35''	12' 7.34''	11' 4.58''	12' 8.29''	11' 3.73''	12' 9.37''
11' 0''	10' 8.26''	11' 3.97''	10' 8.01''	11' 4.26''	10' 7.53''	11' 4.8''	10' 7.01''	11' 5.41''	10' 6.42''	11' 6.1''	10' 5.77''	11' 6.89''	10' 5.05''	11' 7.79''
10' 0''	9' 8.92''	10' 3.25''	9' 8.71''	10' 3.48''	9' 8.32''	10' 3.92''	9' 7.89''	10' 4.42''	9' 7.41''	10' 4.99''	9' 6.87''	10' 5.63''	9' 6.27''	10' 6.35''
9' 0''	8' 9.52''	9' 2.6''	8' 9.35''	9' 2.79''	8' 9.04''	9' 3.14''	8' 8.69''	9' 3.54''	8' 8.3''	9' 3.99''	8' 7.86''	9' 4.49''	8' 7.38''	9' 5.07''
8' 6''	8' 3.8''	8' 8.31''	8' 3.65''	8' 8.47''	8' 3.37''	8' 8.78''	8' 3.05''	8' 9.13''	8' 2.71''	8' 9.53''	8' 2.32''	8' 9.98''	8' 1.89''	8' 10.49''
8' 0''	7' 10.06''	8' 2.03''	7' 9.93''	8' 2.17''	7' 9.68''	8' 2.44''	7' 9.4''	8' 2.75''	7' 9.09''	8' 3.1''	7' 8.75''	8' 3.5''	7' 8.37''	8' 3.94''
7' 6''	7' 4.3''	7' 7.77''	7' 4.19''	7' 7.89''	7' 3.97''	7' 8.13''	7' 3.73''	7' 8.4''	7' 3.46''	7' 8.7''	7' 3.16''	7' 9.04''	7' 2.82''	7' 9.43''
7' 0''	6' 10.53''	7' 1.53''	6' 10.43''	7' 1.63''	6' 10.24''	7' 1.84''	6' 10.03''	7' 2.07''	6' 9.8''	7' 2.33''	6' 9.53''	7' 2.63''	6' 9.24''	7' 2.96''
6' 6''	6' 4.74''	6' 7.3''	6' 4.66''	6' 7.39''	6' 4.49''	6' 7.57''	6' 4.31''	6' 7.77''	6' 4.11''	6' 7.99''	6' 3.89''	6' 8.24''	6' 3.64''	6' 8.52''
6' 0''	5' 10.94''	6' 1.1''	5' 10.86''	6' 1.17''	5' 10.73''	6' 1.32''	5' 10.58''	6' 1.49''	5' 10.41''	6' 1.67''	5' 10.21''	6' 1.88''	5' 10''	6' 2.12''
5' 6''	5' 5.12''	5' 6.91''	5' 5.06''	5' 6.97''	5' 4.94''	5' 7.09''	5' 4.82''	5' 7.23''	5' 4.67''	5' 7.39''	5' 4.51''	5' 7.56''	5' 4.34''	5' 7.76''
5' 0''	4' 11.28''	5' 0.74''	4' 11.23''	5' 0.79''	4' 11.14''	5' 0.89''	4' 11.03''	5' 1''	4' 10.92''	5' 1.13''	4' 10.79''	5' 1.27''	4' 10.64''	5' 1.43''
4' 6''	4' 5.43''	4' 6.59''	4' 5.39''	4' 6.63''	4' 5.31''	4' 6.71''	1.352	4' 6.79''	4' 5.14''	4' 6.89''	4' 5.03''	4' 7''	4' 4.92''	4' 7.13''
4' 0''	3' 11.56''	4' 0.45''	3' 11.53''	4' 0.48''	3' 11.47''	4' 0.54''	3' 11.4''	4' 0.61''	3' 11.33''	4' 0.69''	3' 11.25''	4' 0.77''	3' 11.16''	4' 0.87''
3' 9''	3' 8.62''	3' 9.39''	3' 8.59''	3' 9.42''	3' 8.54''	3' 9.47''	3' 8.48''	3' 9.53''	3' 8.42''	3' 9.6''	3' 8.35''	3' 9.67''	3' 8.27''	3' 9.75''
3' 6''	3' 5.67''	3' 6.34''	3' 5.65''	3' 6.36''	3' 5.6''	3' 6.4''	3' 5.56''	3' 6.45''	3' 5.5''	3' 6.51''	3' 5.44''	3' 6.57''	3' 5.38''	3' 6.64''
3' 3''	3' 2.72''	3' 3.28''	3' 2.7''	3' 3.3''	3' 2.67''	3' 3.34''	3' 2.62''	3' 3.38''	3' 2.58''	3' 3.43''	3' 2.53''	3' 3.48''	3' 2.47''	3' 3.54''
3' 0''	2' 11.77''	3' 0.24''	2' 11.75''	3' 0.25''	2' 11.72''	3' 0.28''	2' 11.69''	3' 0.32''	2' 11.65''	3' 0.36''	2' 11.61''	3' 0.4''	2' 11.56''	3' 0.45''
2' 9''	2' 8.81''	2' 9.19''	2' 8.8''	2' 9.21''	2' 8.77''	2' 9.23''	2' 8.74''	2' 9.26''	2' 8.71''	2' 9.29''	2' 8.68''	2' 9.33''	2' 8.64''	2' 9.37''
2' 6''	2' 5.85''	2' 6.15''	2' 5.84''	2' 6.17''	2' 5.82''	2' 6.19''	2' 5.79''	2' 6.21''	2' 5.77''	2' 6.23''	2' 5.74''	2' 6.26''	2' 5.71''	2' 6.3''

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4.5	5	5.6	6.3	7.1	8	9	10
164' 10.15''	146' 10.99''	130' 11.3''	116' 8.51''	104' 0.35''	92' 8.83''	82' 8.05''	73' 8.49''

4.5		5		5.6		6.3		7.1		8		9		10	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
164' 7.09''	Infinity	146' 7.94''	Infinity	130' 8.27''	Infinity	116' 5.5''	Infinity	103' 9.37''	Infinity	92' 5.83''	Infinity	82' 5.08''	Infinity	73' 5.5''	Infinity
69' 7.03''	439' 1.22''	66' 2.23''	651' 8.26''	62' 8.96''	1428' 0.28''	59' 3.48''	Infinity	55' 10.07''	Infinity	52' 4.99''	Infinity	49' 0.53''	Infinity	45' 8.91''	Infinity
44' 1.42''	93' 10.9''	42' 8.82''	100' 10.84''	41' 3.4''	110' 1.37''	39' 9.21''	122' 8.29''	38' 2.33''	140' 8.91''	36' 6.85''	168' 7.25''	34' 10.88''	216' 9.71''	33' 2.54''	319' 4.53''
32' 3.57''	52' 6.92''	31' 6.66''	54' 8.23''	30' 9.13''	57' 3.18''	29' 11''	60' 5.62''	29' 0.27''	64' 6.26''	28' 0.98''	69' 9.29''	27' 1.15''	76' 9.54''	26' 0.83''	86' 6.99''
25' 5.67''	36' 6.1''	25' 0.13''	37' 6.08''	24' 6.16''	38' 8.33''	23' 11.72''	40' 1.46''	23' 4.84''	41' 10.26''	22' 9.49''	43' 11.87''	22' 1.7''	46' 7.94''	21' 5.46''	50' 0.96''
21' 9.47''	29' 4.03''	21' 5.43''	29' 11.68''	21' 1.04''	30' 8.68''	20' 8.29''	31' 7.34''	20' 3.17''	32' 8.07''	19' 9.67''	33' 11.43''	19' 3.79''	35' 6.17''	18' 9.53''	37' 5.39''
17' 10.86''	22' 7.91''	17' 8.15''	23' 0.41''	17' 5.18''	23' 5.66''	17' 1.95''	23' 11.79''	16' 10.44''	24' 7''	16' 6.64''	25' 3.54''	16' 2.55''	26' 1.74''	15' 10.15''	27' 2.05''
13' 9.65''	16' 5.13''	13' 8.05''	16' 7.46''	13' 6.29''	16' 10.14''	13' 4.37''	17' 1.23''	13' 2.26''	17' 4.83''	12' 11.96''	17' 9.02''	12' 9.45''	18' 1.93''	12' 6.74''	18' 7.72''
11' 2.78''	12' 10.61''	11' 1.73''	13' 0.02''	11' 0.58''	13' 1.63''	10' 11.3''	13' 3.49''	10' 9.9''	13' 5.62''	10' 8.37''	13' 8.08''	10' 6.69''	13' 10.94''	10' 4.86''	14' 2.28''
10' 4.25''	11' 8.8''	10' 3.37''	11' 9.97''	10' 2.39''	11' 11.29''	10' 1.31''	12' 0.81''	10' 0.12''	12' 2.56''	9' 10.82''	12' 4.57''	9' 9.38''	12' 6.9''	9' 7.82''	12' 9.6''
9' 5.61''	10' 7.18''	9' 4.87''	10' 8.12''	9' 4.06''	10' 9.19''	9' 3.16''	10' 10.42''	9' 2.17''	10' 11.82''	9' 1.08''	11' 1.43''	8' 11.88''	11' 3.29''	8' 10.56''	11' 5.45''
8' 6.84''	9' 5.73''	8' 6.24''	9' 6.47''	8' 5.58''	9' 7.32''	8' 4.84''	9' 8.29''	8' 4.03''	9' 9.39''	8' 3.14''	9' 10.66''	8' 2.16''	10' 0.11''	8' 1.08''	10' 1.79''
8' 1.4''	8' 11.07''	8' 0.87''	8' 11.72''	8' 0.28''	9' 0.47''	7' 11.62''	9' 1.32''	7' 10.9''	9' 2.29''	7' 10.1''	9' 3.4''	7' 9.22''	9' 4.68''	7' 8.25''	9' 6.15''
7' 7.94''	8' 4.45''	7' 7.47''	8' 5.02''	7' 6.94''	8' 5.67''	7' 6.36''	8' 6.42''	7' 5.72''	8' 7.26''	7' 5.01''	8' 8.23''	7' 4.22''	8' 9.34''	7' 3.36''	8' 10.62''
7' 2.45''	7' 9.87''	7' 2.03''	7' 10.37''	7' 1.57''	7' 10.93''	7' 1.06''	7' 11.58''	7' 0.49''	8' 0.31''	6' 11.86''	8' 1.14''	6' 11.17''	8' 2.1''	6' 10.41''	8' 3.2''
6' 8.92''	7' 3.34''	6' 8.56''	7' 3.76''	6' 8.16''	7' 4.25''	6' 7.71''	7' 4.8''	6' 7.22''	7' 5.43''	6' 6.67''	7' 6.14''	6' 6.06''	7' 6.96''	6' 5.4''	7' 7.89''
6' 3.36''	6' 8.84''	6' 3.05''	6' 9.2''	6' 2.7''	6' 9.62''	6' 2.32''	6' 10.08''	6' 1.89''	6' 10.61''	6' 1.42''	6' 11.22''	6' 0.9''	6' 11.91''	6' 0.32''	7' 0.7''
5' 9.77''	6' 2.39''	5' 9.5''	6' 2.69''	5' 9.21''	6' 3.04''	5' 8.88''	6' 3.43''	5' 8.52''	6' 3.87''	5' 8.12''	6' 4.38''	5' 7.67''	6' 4.95''	5' 7.18''	6' 5.6''
5' 4.14''	5' 7.98''	5' 3.92''	5' 8.23''	5' 3.67''	5' 8.51''	5' 3.4''	5' 8.83''	5' 3.1''	5' 9.2''	5' 2.76''	5' 9.61''	5' 2.39''	5' 10.08''	5' 1.97''	5' 10.62''
4' 10.48''	5' 1.6''	4' 10.3''	5' 1.81''	4' 10.1''	5' 2.04''	4' 9.88''	5' 2.3''	4' 9.63''	5' 2.59''	4' 9.35''	5' 2.92''	4' 9.04''	5' 3.3''	4' 8.7''	5' 3.73''
4' 4.79''	4' 7.27''	4' 4.64''	4' 7.43''	4' 4.48''	4' 7.61''	4' 4.3''	4' 7.82''	4' 4.1''	4' 8.05''	4' 3.88''	4' 8.31''	4' 3.63''	4' 8.61''	4' 3.36''	4' 8.95''
3' 11.06''	4' 0.98''	3' 10.95''	4' 1.1''	3' 10.82''	4' 1.24''	3' 10.68''	4' 1.4''	3' 10.53''	4' 1.57''	3' 10.35''	4' 1.77''	3' 10.16''	4' 2''	3' 9.95''	4' 2.26''
3' 8.19''	3' 9.85''	3' 8.09''	3' 9.95''	3' 7.98''	3' 10.07''	3' 7.86''	3' 10.21''	3' 7.72''	3' 10.36''	3' 7.57''	3' 10.53''	3' 7.4''	3' 10.73''	3' 7.21''	3' 10.95''
3' 5.3''	3' 6.73''	3' 5.22''	3' 6.82''	3' 5.12''	3' 6.92''	3' 5.02''	3' 7.03''	3' 4.9''	3' 7.16''	3' 4.77''	3' 7.31''	3' 4.63''	3' 7.48''	3' 4.46''	3' 7.67''
3' 2.41''	3' 3.61''	3' 2.34''	3' 3.69''	3' 2.26''	3' 3.78''	3' 2.17''	3' 3.87''	3' 2.07''	3' 3.98''	3' 1.96''	3' 4.11''	3' 1.83''	3' 4.25''	3' 1.7''	3' 4.41''
2' 11.51''	3' 0.51''	2' 11.45''	3' 0.57''	2' 11.38''	3' 0.64''	2' 11.31''	3' 0.73''	2' 11.22''	3' 0.82''	2' 11.13''	3' 0.92''	2' 11.03''	3' 1.04''	2' 10.91''	3' 1.17''
2' 8.59''	2' 9.42''	2' 8.55''	2' 9.47''	2' 8.49''	2' 9.53''	2' 8.43''	2' 9.59''	2' 8.36''	2' 9.67''	2' 8.29''	2' 9.75''	2' 8.2''	2' 9.84''	2' 8.11''	2' 9.95''
2' 5.68''	2' 6.33''	2' 5.64''	2' 6.37''	2' 5.59''	2' 6.42''	2' 5.54''	2' 6.47''	2' 5.49''	2' 6.53''	2' 5.43''	2' 6.6''	2' 5.36''	2' 6.67''	2' 5.28''	2' 6.76''

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11	13	14	16	18	20	22
65' 8.62''	58' 7.23''	52' 3.17''	46' 7.41''	41' 7.02''	37' 1.24''	33' 1.32''

11		13		14		16		18		20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
65' 5.66''	Infinity	58' 4.28''	Infinity	52' 0.21''	Infinity	46' 4.44''	Infinity	41' 4.06''	Infinity	36' 10.27''	Infinity	32' 10.35''	Infinity
42' 6.39''	Infinity	39' 5.14''	Infinity	36' 5.35''	Infinity	33' 7.16''	Infinity	30' 10.68''	Infinity	28' 3.97''	Infinity	25' 11.09''	Infinity
31' 5.95''	681' 7.31''	29' 9.26''	Infinity	28' 0.59''	Infinity	26' 4.09''	Infinity	24' 7.88''	Infinity	23' 0.1''	Infinity	21' 4.86''	Infinity
25' 0.08''	101' 0.58''	23' 10.97''	124' 4.79''	22' 9.56''	168' 0.3''	21' 7.94''	277' 3.67''	20' 6.2''	1030' 8.45''	19' 4.43''	Infinity	18' 2.72''	Infinity
20' 8.82''	54' 6.84''	19' 11.79''	60' 8.19''	19' 2.41''	69' 5.02''	18' 4.73''	82' 9.79''	17' 6.81''	105' 9.07''	16' 8.69''	153' 6.83''	15' 10.45''	312' 3.73''
18' 2.9''	39' 10.7''	17' 7.92''	43' 0.54''	17' 0.59''	47' 2.89''	16' 4.96''	53' 0.62''	15' 9.06''	61' 6.74''	15' 0.92''	75' 1.25''	14' 4.59''	99' 9.36''
15' 5.45''	28' 5.08''	15' 0.45''	29' 11.72''	14' 7.15''	31' 11.24''	14' 1.57''	34' 5.63''	13' 7.72''	37' 10.11''	13' 1.63''	42' 6.22''	12' 7.32''	49' 4.55''
12' 3.81''	19' 2.6''	12' 0.65''	19' 10.86''	11' 9.27''	20' 8.87''	11' 5.66''	21' 9.17''	11' 1.83''	23' 0.54''	10' 9.78''	24' 8.12''	10' 5.52''	26' 9.72''
10' 2.87''	14' 6.18''	10' 0.71''	14' 10.79''	9' 10.37''	15' 4.27''	9' 7.86''	15' 10.84''	9' 5.17''	16' 6.81''	9' 2.29''	17' 4.59''	8' 11.24''	18' 4.81''
9' 6.11''	13' 0.75''	9' 4.26''	13' 4.45''	9' 2.25''	13' 8.82''	9' 0.08''	14' 2.03''	8' 9.74''	14' 8.29''	8' 7.25''	15' 3.89''	8' 4.58''	16' 1.26''
8' 9.13''	11' 7.95''	8' 7.56''	11' 10.87''	8' 5.86''	12' 2.3''	8' 4.02''	12' 6.35''	8' 2.03''	12' 11.19''	7' 11.89''	13' 5.01''	7' 9.61''	14' 0.1''
7' 11.89''	10' 3.73''	7' 10.6''	10' 5.99''	7' 9.19''	10' 8.63''	7' 7.66''	10' 11.73''	7' 6''	11' 3.39''	7' 4.21''	11' 7.76''	7' 2.29''	12' 1.02''
7' 7.18''	9' 7.84''	7' 6.02''	9' 9.81''	7' 4.75''	10' 0.1''	7' 3.37''	10' 2.78''	7' 1.87''	10' 5.94''	7' 0.25''	10' 9.69''	6' 10.5''	11' 2.18''
7' 2.41''	9' 0.08''	7' 1.37''	9' 1.78''	7' 0.23''	9' 3.76''	6' 10.99''	9' 6.06''	6' 9.65''	9' 8.77''	6' 8.19''	9' 11.97''	6' 6.61''	10' 3.78''
6' 9.57''	8' 4.46''	6' 8.65''	8' 5.92''	6' 7.64''	8' 7.6''	6' 6.54''	8' 9.57''	6' 5.34''	8' 11.87''	6' 4.03''	9' 2.57''	6' 2.63''	9' 5.78''
6' 4.66''	7' 8.97''	6' 3.85''	7' 10.2''	6' 2.96''	7' 11.63''	6' 1.99''	8' 1.29''	6' 0.94''	8' 3.22''	5' 11.79''	8' 5.49''	5' 10.54''	8' 8.16''
5' 11.68''	7' 1.6''	5' 10.98''	7' 2.64''	5' 10.21''	7' 3.83''	5' 9.37''	7' 5.22''	5' 8.44''	7' 6.83''	5' 7.44''	7' 8.7''	5' 6.35''	7' 10.91''
5' 6.63''	6' 6.35''	5' 6.03''	6' 7.21''	5' 5.37''	6' 8.2''	5' 4.65''	6' 9.34''	5' 3.85''	6' 10.66''	5' 2.99''	7' 0.2''	5' 2.04''	7' 2''
5' 1.51''	5' 11.23''	5' 1.01''	5' 11.93''	5' 0.45''	6' 0.74''	4' 11.84''	6' 1.66''	4' 11.17''	6' 2.73''	4' 10.43''	6' 3.97''	4' 9.63''	6' 5.41''
4' 8.32''	5' 4.22''	4' 7.9''	5' 4.78''	4' 7.44''	5' 5.43''	4' 6.93''	5' 6.16''	4' 6.37''	5' 7.01''	4' 5.76''	5' 7.99''	4' 5.09''	5' 9.12''
4' 3.05''	4' 9.33''	4' 2.72''	4' 9.77''	4' 2.34''	4' 10.27''	4' 1.93''	4' 10.84''	4' 1.48''	4' 11.5''	4' 0.98''	5' 0.26''	4' 0.43''	5' 1.13''
3' 9.71''	4' 2.55''	3' 9.44''	4' 2.88''	3' 9.15''	4' 3.26''	3' 8.83''	4' 3.7''	3' 8.47''	4' 4.19''	3' 8.07''	4' 4.76''	3' 7.64''	4' 5.41''
3' 7.01''	3' 11.2''	3' 6.78''	3' 11.49''	3' 6.52''	3' 11.81''	3' 6.24''	4' 0.18''	3' 5.92''	4' 0.61''	3' 5.58''	4' 1.09''	3' 5.19''	4' 1.65''
3' 4.29''	3' 7.88''	3' 4.09''	3' 8.12''	3' 3.86''	3' 8.4''	3' 3.62''	3' 8.71''	3' 3.35''	3' 9.07''	3' 3.05''	3' 9.48''	3' 2.71''	3' 9.95''
3' 1.54''	3' 4.58''	3' 1.37''	3' 4.79''	3' 1.18''	3' 5.02''	3' 0.97''	3' 5.28''	3' 0.74''	3' 5.58''	3' 0.48''	3' 5.92''	3' 0.2''	3' 6.32''
2' 10.78''	3' 1.32''	2' 10.64''	3' 1.48''	2' 10.48''	3' 1.67''	2' 10.3''	3' 1.89''	2' 10.11''	3' 2.14''	2' 9.89''	3' 2.42''	2' 9.65''	3' 2.74''
2' 8''	2' 10.07''	2' 7.88''	2' 10.21''	2' 7.75''	2' 10.36''	2' 7.6''	2' 10.54''	2' 7.44''	2' 10.74''	2' 7.26''	2' 10.96''	2' 7.06''	2' 11.22''
2' 5.2''	2' 6.85''	2' 5.1''	2' 6.96''	2' 5''	2' 7.09''	2' 4.88''	2' 7.22''	2' 4.75''	2' 7.38''	2' 4.6''	2' 7.56''	2' 4.44''	2' 7.76''

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Focal Length 90 mm

Circle of Confusion 0.025 mm

T/No	2.1	2.2	2.5	2.8	3.2	3.5	4
Hyperfocal Distance (ft-inch)	516' 11.74''	483' 7.62''	430' 11.1''	383' 11.6''	342' 1.59''	304' 10.35''	271' 7.88''

T/No	2.1		2.2		2.5		2.8		3.2		3.5		4	
Focus Distance (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
Infinity	516' 7.17''	Infinity	483' 3.2''	Infinity	430' 6.86''	Infinity	383' 7.5''	Infinity	341' 9.58''	Infinity	304' 6.41''	Infinity	271' 4.02''	Infinity
120' 0''	97' 5.92''	156' 0.67''	96' 2.98''	159' 4.34''	93' 11.66''	166' 0.41''	91' 6.49''	174' 2.69''	88' 11.51''	184' 5.23''	86' 2.75''	197' 5.13''	83' 4.3''	214' 4.57''
60' 0''	53' 9.9''	67' 9.4''	53' 5.34''	68' 4.75''	52' 8.88''	69' 7.07''	51' 11.64''	70' 11.74''	51' 1.59''	72' 7.28''	50' 2.69''	74' 6.31''	49' 2.91''	76' 9.65''
40' 0''	37' 2.09''	43' 3.53''	36' 11.92''	43' 6.5''	36' 7.88''	44' 0.23''	36' 3.42''	44' 6.81''	35' 10.53''	45' 2.4''	35' 5.17''	45' 11.19''	34' 11.3''	46' 9.39''
30' 0''	28' 4.69''	31' 9.65''	28' 3.44''	31' 11.24''	28' 1.08''	32' 2.29''	27' 10.47''	32' 5.78''	27' 7.6''	32' 9.77''	27' 4.42''	33' 2.35''	27' 0.94''	33' 7.62''
25' 0''	23' 10.53''	26' 2.81''	23' 9.65''	26' 3.88''	23' 7.99''	26' 5.95''	23' 6.14''	26' 8.29''	23' 4.1''	26' 10.97''	23' 1.85''	27' 2.03''	22' 11.36''	27' 5.53''
20' 0''	19' 3.37''	20' 9.31''	19' 2.79''	20' 9.98''	19' 1.71''	20' 11.26''	19' 0.52''	21' 0.71''	18' 11.18''	21' 2.37''	18' 9.71''	21' 4.25''	18' 8.08''	21' 6.39''
15' 0''	14' 7.16''	15' 5.12''	14' 6.83''	15' 5.49''	14' 6.22''	15' 6.18''	14' 5.54''	15' 6.97''	14' 4.78''	15' 7.86''	14' 3.94''	15' 8.87''	14' 3''	15' 10.02''
12' 0''	11' 8.92''	12' 3.22''	11' 8.71''	12' 3.45''	11' 8.32''	12' 3.88''	11' 7.89''	12' 4.37''	11' 7.4''	12' 4.92''	11' 6.85''	12' 5.55''	11' 6.25''	12' 6.26''
11' 0''	10' 9.42''	11' 2.68''	10' 9.25''	11' 2.87''	10' 8.92''	11' 3.23''	10' 8.55''	11' 3.64''	10' 8.14''	11' 4.1''	10' 7.69''	11' 4.62''	10' 7.18''	11' 5.21''
10' 0''	9' 9.88''	10' 2.2''	9' 9.74''	10' 2.35''	9' 9.47''	10' 2.65''	9' 9.16''	10' 2.98''	9' 8.83''	10' 3.36''	9' 8.45''	10' 3.78''	9' 8.03''	10' 4.26''
9' 0''	8' 10.29''	9' 1.76''	8' 10.18''	9' 1.89''	8' 9.96''	9' 2.12''	8' 9.72''	9' 2.39''	8' 9.44''	9' 2.69''	8' 9.14''	9' 3.03''	8' 8.8''	9' 3.41''
8' 6''	8' 4.49''	8' 7.56''	8' 4.38''	8' 7.67''	8' 4.19''	8' 7.88''	8' 3.97''	8' 8.12''	8' 3.73''	8' 8.38''	8' 3.46''	8' 8.68''	8' 3.15''	8' 9.02''
8' 0''	7' 10.66''	8' 1.38''	7' 10.57''	8' 1.47''	7' 10.4''	8' 1.65''	7' 10.21''	8' 1.86''	7' 10''	8' 2.09''	7' 9.76''	8' 2.36''	7' 9.49''	8' 2.65''
7' 6''	7' 4.83''	7' 7.2''	7' 4.75''	7' 7.28''	7' 4.6''	7' 7.44''	7' 4.43''	7' 7.62''	7' 4.25''	7' 7.83''	7' 4.04''	7' 8.06''	7' 3.8''	7' 8.31''
7' 0''	6' 10.99''	7' 1.04''	6' 10.92''	7' 1.11''	6' 10.79''	7' 1.25''	6' 10.64''	7' 1.4''	6' 10.48''	7' 1.58''	6' 10.3''	7' 1.77''	6' 10.1''	7' 2''
6' 6''	6' 5.14''	6' 6.89''	6' 5.08''	6' 6.95''	6' 4.96''	6' 7.06''	6' 4.84''	6' 7.2''	6' 4.7''	6' 7.35''	6' 4.54''	6' 7.51''	6' 4.37''	6' 7.7''
6' 0''	5' 11.27''	6' 0.75''	5' 11.22''	6' 0.8''	5' 11.13''	6' 0.9''	5' 11.02''	6' 1.01''	5' 10.9''	6' 1.13''	5' 10.77''	6' 1.28''	5' 10.62''	6' 1.44''
5' 6''	5' 5.39''	5' 6.62''	5' 5.35''	5' 6.66''	5' 5.27''	5' 6.74''	5' 5.19''	5' 6.84''	5' 5.09''	5' 6.94''	5' 4.98''	5' 7.06''	5' 4.85''	5' 7.19''
5' 0''	4' 11.5''	5' 0.5''	4' 11.47''	5' 0.54''	4' 11.41''	5' 0.61''	4' 11.34''	5' 0.68''	4' 11.25''	5' 0.77''	4' 11.16''	5' 0.86''	4' 11.06''	5' 0.97''
4' 6''	4' 5.61''	4' 6.4''	4' 5.58''	4' 6.43''	4' 5.53''	4' 6.48''	1.358	4' 6.54''	4' 5.41''	4' 6.61''	4' 5.33''	4' 6.68''	4' 5.25''	4' 6.77''
4' 0''	3' 11.69''	4' 0.31''	3' 11.67''	4' 0.33''	3' 11.63''	4' 0.37''	3' 11.59''	4' 0.42''	3' 11.54''	4' 0.47''	3' 11.48''	4' 0.53''	3' 11.42''	4' 0.59''
3' 9''	3' 8.74''	3' 9.27''	3' 8.72''	3' 9.29''	3' 8.68''	3' 9.32''	3' 8.64''	3' 9.36''	3' 8.6''	3' 9.41''	3' 8.55''	3' 9.46''	3' 8.5''	3' 9.51''
3' 6''	3' 5.77''	3' 6.23''	3' 5.76''	3' 6.25''	3' 5.73''	3' 6.28''	3' 5.69''	3' 6.31''	3' 5.66''	3' 6.35''	3' 5.62''	3' 6.39''	3' 5.57''	3' 6.44''
3' 3''	3' 2.81''	3' 3.19''	3' 2.79''	3' 3.21''	3' 2.77''	3' 3.23''	3' 2.74''	3' 3.26''	3' 2.71''	3' 3.29''	3' 2.67''	3' 3.33''	3' 2.64''	3' 3.37''
3' 0''	2' 11.84''	3' 0.16''	2' 11.83''	3' 0.17''	2' 11.81''	3' 0.19''	2' 11.78''	3' 0.22''	2' 11.76''	3' 0.25''	2' 11.73''	3' 0.28''	2' 11.7''	3' 0.31''
2' 10''	2' 9.86''	2' 10.14''	2' 9.85''	2' 10.15''	2' 9.83''	2' 10.17''	2' 9.81''	2' 10.19''	2' 9.79''	2' 10.22''	2' 9.76''	2' 10.24''	2' 9.73''	2' 10.27''

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4.5	5	5.6	6.3	7.1	8	9	10
242' 0.88''	215' 8.62''	192' 2.85''	171' 3.87''	152' 8.24''	136' 0.99''	121' 3.51''	108' 1.36''

4.5		5		5.6		6.3		7.1		8		9		10	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
241' 9.09''	Infinity	215' 4.88''	Infinity	191' 11.16''	Infinity	171' 0.17''	Infinity	152' 4.56''	Infinity	135' 9.35''	Infinity	120' 11.87''	Infinity	107' 9.75''	Infinity
80' 4.28''	237' 3.02''	77' 2.82''	269' 6.43''	74' 0.1''	318' 1.66''	70' 8.34''	398' 10.76''	67' 3.75''	557' 10.91''	63' 10.59''	1009' 11.49''	60' 5.14''	11198' 1.5''	56' 11.66''	Infinity
48' 2.23''	79' 6.41''	47' 0.63''	82' 10.09''	45' 10.1''	86' 10.75''	44' 6.67''	91' 11.4''	43' 2.36''	98' 4.49''	41' 9.19''	106' 8.97''	40' 3.24''	118' 0.35''	38' 8.57''	133' 11.06''
34' 4.92''	47' 9.3''	33' 9.97''	48' 11.3''	33' 2.46''	50' 3.85''	32' 6.35''	51' 11.57''	31' 9.63''	53' 11.32''	31' 0.3''	56' 4.23''	30' 2.36''	59' 3.93''	29' 3.82''	63' 0.8''
26' 9.11''	34' 1.7''	26' 4.92''	34' 8.76''	26' 0.35''	35' 4.97''	25' 7.37''	36' 2.59''	25' 1.98''	37' 1.92''	24' 8.14''	38' 3.37''	24' 1.85''	39' 7.46''	23' 7.11''	41' 2.94''
22' 8.62''	27' 9.56''	22' 5.61''	28' 2.19''	22' 2.31''	28' 7.56''	21' 10.7''	29' 1.78''	21' 6.77''	29' 9.05''	21' 2.49''	30' 5.58''	20' 9.86''	31' 3.65''	20' 4.85''	32' 3.64''
18' 6.27''	21' 8.84''	18' 4.28''	21' 11.65''	18' 2.09''	22' 2.87''	17' 11.68''	22' 6.58''	17' 9.04''	22' 10.88''	17' 6.16''	23' 3.87''	17' 3.01''	23' 9.69''	16' 11.59''	24' 4.52''
14' 1.96''	15' 11.32''	14' 0.81''	16' 0.81''	13' 11.53''	16' 2.51''	13' 10.12''	16' 4.45''	13' 8.57''	16' 6.67''	13' 6.87''	16' 9.23''	13' 4.99''	17' 0.19''	13' 2.94''	17' 3.61''
11' 5.58''	12' 7.06''	11' 4.83''	12' 7.98''	11' 4''	12' 9.02''	11' 3.09''	12' 10.2''	11' 2.07''	12' 11.55''	11' 0.95''	13' 1.1''	10' 11.71''	13' 2.87''	10' 10.35''	13' 4.91''
10' 6.61''	11' 5.88''	10' 5.98''	11' 6.63''	10' 5.29''	11' 7.49''	10' 4.51''	11' 8.47''	10' 3.65''	11' 9.58''	10' 2.7''	11' 10.86''	10' 1.66''	12' 0.31''	10' 0.5''	12' 1.98''
9' 7.56''	10' 4.8''	9' 7.04''	10' 5.42''	9' 6.46''	10' 6.12''	9' 5.82''	10' 6.91''	9' 5.11''	10' 7.81''	9' 4.32''	10' 8.84''	9' 3.44''	10' 10.01''	9' 2.48''	10' 11.36''
8' 8.42''	9' 3.84''	8' 8''	9' 4.33''	8' 7.53''	9' 4.89''	8' 7.01''	9' 5.52''	8' 6.43''	9' 6.23''	8' 5.79''	9' 7.04''	8' 5.07''	9' 7.97''	8' 4.29''	9' 9.03''
8' 2.82''	8' 9.4''	8' 2.44''	8' 9.83''	8' 2.02''	8' 10.32''	8' 1.56''	8' 10.88''	8' 1.04''	8' 11.51''	8' 0.47''	9' 0.23''	7' 11.83''	9' 1.04''	7' 11.13''	9' 1.98''
7' 9.19''	8' 2.99''	7' 8.86''	8' 3.37''	7' 8.49''	8' 3.8''	7' 8.07''	8' 4.29''	7' 7.62''	8' 4.84''	7' 7.11''	8' 5.46''	7' 6.54''	8' 6.18''	7' 5.92''	8' 6.99''
7' 3.54''	7' 8.61''	7' 3.25''	7' 8.94''	7' 2.92''	7' 9.31''	7' 2.56''	7' 9.73''	7' 2.16''	7' 10.21''	7' 1.71''	7' 10.75''	7' 1.22''	7' 11.37''	7' 0.67''	8' 0.07''
6' 9.87''	7' 2.25''	6' 9.62''	7' 2.53''	6' 9.33''	7' 2.85''	6' 9.02''	7' 3.22''	6' 8.67''	7' 3.63''	6' 8.28''	7' 4.09''	6' 7.85''	7' 4.62''	6' 7.37''	7' 5.23''
6' 4.17''	6' 7.92''	6' 3.96''	6' 8.16''	6' 3.71''	6' 8.43''	6' 3.44''	6' 8.74''	6' 3.14''	6' 9.09''	6' 2.81''	6' 9.49''	6' 2.44''	6' 9.94''	6' 2.02''	6' 10.45''
5' 10.46''	6' 1.61''	5' 10.27''	6' 1.82''	5' 10.07''	6' 2.05''	5' 9.84''	6' 2.31''	5' 9.58''	6' 2.6''	5' 9.3''	6' 2.93''	5' 8.98''	6' 3.31''	5' 8.63''	6' 3.73''
5' 4.72''	5' 7.34''	5' 4.56''	5' 7.51''	5' 4.39''	5' 7.7''	5' 4.2''	5' 7.91''	5' 3.99''	5' 8.15''	5' 3.75''	5' 8.42''	5' 3.48''	5' 8.73''	5' 3.19''	5' 9.09''
4' 10.95''	5' 1.09''	4' 10.83''	5' 1.22''	4' 10.69''	5' 1.38''	4' 10.53''	5' 1.55''	4' 10.35''	5' 1.75''	4' 10.16''	5' 1.97''	4' 9.94''	5' 2.22''	4' 9.7''	5' 2.5''
4' 5.16''	4' 6.86''	4' 5.06''	4' 6.97''	4' 4.95''	4' 7.09''	4' 4.83''	4' 7.23''	4' 4.69''	4' 7.39''	4' 4.53''	4' 7.56''	4' 4.35''	4' 7.76''	4' 4.16''	4' 7.98''
3' 11.35''	4' 0.67''	3' 11.27''	4' 0.75''	3' 11.19''	4' 0.84''	3' 11.09''	4' 0.95''	3' 10.98''	4' 1.07''	3' 10.86''	4' 1.2''	3' 10.72''	4' 1.35''	3' 10.57''	4' 1.52''
3' 8.44''	3' 9.58''	3' 8.37''	3' 9.65''	3' 8.29''	3' 9.73''	3' 8.21''	3' 9.82''	3' 8.12''	3' 9.92''	3' 8.01''	3' 10.04''	3' 7.89''	3' 10.17''	3' 7.76''	3' 10.32''
3' 5.52''	3' 6.49''	3' 5.46''	3' 6.56''	3' 5.39''	3' 6.62''	3' 5.32''	3' 6.7''	3' 5.24''	3' 6.79''	3' 5.15''	3' 6.89''	3' 5.05''	3' 7''	3' 4.93''	3' 7.13''
3' 2.59''	3' 3.42''	3' 2.54''	3' 3.47''	3' 2.49''	3' 3.53''	3' 2.42''	3' 3.59''	3' 2.36''	3' 3.67''	3' 2.28''	3' 3.75''	3' 2.19''	3' 3.85''	3' 2.1''	3' 3.95''
2' 11.66''	3' 0.35''	2' 11.62''	3' 0.39''	2' 11.57''	3' 0.44''	2' 11.52''	3' 0.49''	2' 11.46''	3' 0.56''	2' 11.4''	3' 0.63''	2' 11.32''	3' 0.7''	2' 11.24''	3' 0.79''
2' 9.7''	2' 10.31''	2' 9.66''	2' 10.34''	2' 9.62''	2' 10.39''	2' 9.58''	2' 10.43''	2' 9.53''	2' 10.49''	2' 9.47''	2' 10.55''	2' 9.41''	2' 10.62''	2' 9.34''	2' 10.69''

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11	13	14	16	18	20	22
96' 4.5''	85' 10.98''	76' 7.17''	68' 3.57''	60' 10.83''	54' 3.73''	48' 5.3''

11		13		14		16		18		20		22	
Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)	Short Focus (ft-inch)	Long Focus (ft-inch)
96' 0.89''	Infinity	85' 7.39''	Infinity	76' 3.58''	Infinity	67' 11.97''	Infinity	60' 7.22''	Infinity	54' 0.16''	Infinity	48' 1.73''	Infinity
53' 6.43''	Infinity	50' 1.72''	Infinity	46' 9.78''	Infinity	43' 6.85''	Infinity	40' 5.14''	Infinity	37' 4.84''	Infinity	34' 6.09''	Infinity
37' 1.27''	157' 9.36''	35' 5.44''	197' 2.89''	33' 9.19''	274' 3.41''	32' 0.66''	488' 8.17''	30' 3.97''	4006' 0.27''	28' 7.27''	Infinity	26' 10.68''	Infinity
28' 4.7''	67' 10.44''	27' 5.04''	74' 2.62''	26' 4.87''	82' 11.17''	25' 4.24''	95' 6.3''	24' 3.23''	115' 2.06''	23' 1.9''	149' 9.31''	22' 0.33''	226' 1.18''
22' 11.91''	43' 2.81''	22' 4.26''	45' 8.52''	21' 8.16''	48' 10.21''	20' 11.64''	52' 11.24''	20' 2.72''	58' 5.12''	19' 5.44''	66' 1.56''	18' 7.85''	77' 7.55''
19' 11.48''	33' 6.06''	19' 5.71''	34' 11.58''	18' 11.57''	36' 9.18''	18' 5.06''	39' 0.24''	17' 10.18''	41' 10.9''	17' 2.96''	45' 8.51''	16' 7.42''	50' 10.73''
16' 7.88''	25' 0.59''	16' 3.88''	25' 10.21''	15' 11.58''	26' 9.77''	15' 6.98''	27' 11.82''	15' 2.07''	29' 5.14''	14' 8.86''	31' 2.87''	14' 3.36''	33' 6.7''
13' 0.7''	17' 7.6''	12' 10.26''	18' 0.26''	12' 7.61''	18' 5.74''	12' 4.75''	19' 0.24''	12' 1.66''	19' 8.01''	11' 10.35''	20' 5.4''	11' 6.81''	21' 4.88''
10' 8.86''	13' 7.26''	10' 7.23''	13' 9.99''	10' 5.44''	14' 1.16''	10' 3.5''	14' 4.87''	10' 1.39''	14' 9.23''	9' 11.11''	15' 2.41''	9' 8.65''	15' 8.6''
9' 11.23''	12' 3.9''	9' 9.84''	12' 6.13''	9' 8.32''	12' 8.7''	9' 6.65''	12' 11.7''	9' 4.84''	13' 3.21''	9' 2.88''	13' 7.35''	9' 0.76''	14' 0.26''
9' 1.42''	11' 0.9''	9' 0.26''	11' 2.68''	8' 10.98''	11' 4.74''	8' 9.58''	11' 7.12''	8' 8.05''	11' 9.9''	8' 6.39''	12' 1.15''	8' 4.59''	12' 4.99''
8' 3.42''	9' 10.25''	8' 2.47''	9' 11.64''	8' 1.42''	10' 1.24''	8' 0.26''	10' 3.1''	7' 11''	10' 5.25''	7' 9.63''	10' 7.76''	7' 8.13''	10' 10.7''
7' 10.35''	9' 3.04''	7' 9.49''	9' 4.26''	7' 8.55''	9' 5.67''	7' 7.51''	9' 7.29''	7' 6.38''	9' 9.16''	7' 5.14''	9' 11.34''	7' 3.79''	10' 1.89''
7' 5.23''	8' 7.92''	7' 4.47''	8' 8.98''	7' 3.63''	8' 10.2''	7' 2.7''	8' 11.61''	7' 1.69''	9' 1.23''	7' 0.58''	9' 3.11''	6' 11.37''	9' 5.31''
7' 0.06''	8' 0.88''	6' 11.38''	8' 1.79''	6' 10.64''	8' 2.85''	6' 9.83''	8' 4.05''	6' 8.93''	8' 5.45''	6' 7.95''	8' 7.06''	6' 6.87''	8' 8.93''
6' 6.84''	7' 5.91''	6' 6.25''	7' 6.7''	6' 5.6''	7' 7.59''	6' 4.88''	7' 8.62''	6' 4.1''	7' 9.81''	6' 3.23''	7' 11.17''	6' 2.29''	8' 0.75''
6' 1.56''	6' 11.03''	6' 1.06''	6' 11.69''	6' 0.49''	7' 0.45''	5' 11.87''	7' 1.31''	5' 11.19''	7' 2.31''	5' 10.44''	7' 3.45''	5' 9.62''	7' 4.77''
5' 8.24''	6' 4.22''	5' 7.81''	6' 4.77''	5' 7.33''	6' 5.4''	5' 6.8''	6' 6.12''	5' 6.21''	6' 6.94''	5' 5.57''	6' 7.89''	5' 4.86''	6' 8.98''
5' 2.86''	5' 9.48''	5' 2.5''	5' 9.94''	5' 2.1''	5' 10.45''	5' 1.65''	5' 11.04''	5' 1.16''	5' 11.71''	5' 0.62''	6' 0.49''	5' 0.02''	6' 1.37''
4' 9.43''	5' 2.82''	4' 9.13''	5' 3.19''	4' 8.8''	5' 3.6''	4' 8.43''	5' 4.07''	4' 8.02''	5' 4.61''	4' 7.58''	5' 5.23''	4' 7.08''	5' 5.94''
4' 3.94''	4' 8.23''	4' 3.7''	4' 8.52''	4' 3.44''	4' 8.85''	4' 3.14''	4' 9.22''	4' 2.81''	4' 9.64''	4' 2.45''	4' 10.12''	4' 2.05''	4' 10.67''
3' 10.4''	4' 1.72''	3' 10.22''	4' 1.94''	3' 10.01''	4' 2.18''	3' 9.77''	4' 2.47''	3' 9.52''	4' 2.79''	3' 9.23''	4' 3.15''	3' 8.92''	4' 3.57''
3' 7.61''	3' 10.48''	3' 7.45''	3' 10.67''	3' 7.27''	3' 10.89''	3' 7.06''	3' 11.13''	3' 6.84''	3' 11.41''	3' 6.59''	3' 11.72''	3' 6.31''	4' 0.08''
3' 4.81''	3' 7.27''	3' 4.67''	3' 7.43''	3' 4.51''	3' 7.61''	3' 4.33''	3' 7.82''	3' 4.14''	3' 8.05''	3' 3.92''	3' 8.32''	3' 3.68''	3' 8.62''
3' 1.99''	3' 4.07''	3' 1.87''	3' 4.21''	3' 1.73''	3' 4.36''	3' 1.58''	3' 4.54''	3' 1.42''	3' 4.73''	3' 1.23''	3' 4.96''	3' 1.03''	3' 5.21''
2' 11.15''	3' 0.89''	2' 11.05''	3' 1''	2' 10.94''	3' 1.13''	2' 10.82''	3' 1.28''	2' 10.68''	3' 1.44''	2' 10.52''	3' 1.62''	2' 10.35''	3' 1.83''
2' 9.26''	2' 10.78''	2' 9.17''	2' 10.88''	2' 9.07''	2' 10.99''	2' 8.96''	2' 11.12''	2' 8.84''	2' 11.26''	2' 8.7''	2' 11.42''	2' 8.55''	2' 11.6''

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