

CWSONDEROPTIC

Depth of Focus Charts: Summilux-C



OFFICIAL PARTNER
CINE PRODUCTS



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 16 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	24' 4"	infinity	17' 5"	infinity	12' 4"	infinity	8' 8"	infinity	6' 2"	infinity	4' 4"	infinity	3' 1"	infinity	2' 2"	infinity	1' 7"	infinity
60'0"	17' 4"	infinity	13' 6"	infinity	10' 3"	infinity	7' 7"	infinity	5' 7"	infinity	4' 1"	infinity	2' 11"	infinity	2' 1"	infinity	1' 6"	infinity
40'0"	15' 2"	infinity	12' 2"	infinity	9' 5"	infinity	7' 2"	infinity	5' 4"	infinity	3' 11"	infinity	2' 10"	infinity	2' 1"	infinity	1' 6"	infinity
30'0"	13' 5"	infinity	11' 0"	infinity	8' 9"	infinity	6' 9"	infinity	5' 1"	infinity	3' 10"	infinity	2' 10"	infinity	2' 0"	infinity	1' 6"	infinity
25'0"	12' 4"	infinity	10' 3"	infinity	8' 3"	infinity	6' 6"	infinity	4' 11"	infinity	3' 9"	infinity	2' 9"	infinity	2' 0"	infinity	1' 6"	infinity
20'0"	11' 0"	110' 9"	9' 4"	infinity	7' 8"	infinity	6' 1"	infinity	4' 9"	infinity	3' 7"	infinity	2' 8"	infinity	2' 0"	infinity	1' 6"	infinity
17'0"	10' 0"	55' 11"	8' 7"	643' 10"	7' 2"	infinity	5' 9"	infinity	4' 6"	infinity	3' 6"	infinity	2' 7"	infinity	1' 11"	infinity	1' 5"	infinity
15'0"	9' 4"	38' 10"	8' 1"	106' 2"	6' 9"	infinity	5' 6"	infinity	4' 4"	infinity	3' 5"	infinity	2' 7"	infinity	1' 11"	infinity	1' 5"	infinity
13'0"	8' 6"	27' 9"	7' 5"	50' 9"	6' 4"	infinity	5' 3"	infinity	4' 2"	infinity	3' 3"	infinity	2' 6"	infinity	1' 10"	infinity	1' 5"	infinity
12'0"	8' 1"	23' 7"	7' 1"	38' 3"	6' 1"	411' 9"	5' 1"	infinity	4' 1"	infinity	3' 2"	infinity	2' 6"	infinity	1' 10"	infinity	1' 5"	infinity
11'0"	7' 7"	20' 0"	6' 9"	29' 8"	5' 10"	99' 8"	4' 10"	infinity	3' 11"	infinity	3' 2"	infinity	2' 5"	infinity	1' 10"	infinity	1' 5"	infinity
10'0"	7' 1"	16' 11"	6' 4"	23' 4"	5' 6"	52' 2"	4' 8"	infinity	3' 10"	infinity	3' 1"	infinity	2' 4"	infinity	1' 10"	infinity	1' 4"	infinity
9'6"	6' 10"	15' 6"	6' 2"	20' 9"	5' 4"	40' 11"	4' 7"	infinity	3' 9"	infinity	3' 0"	infinity	2' 4"	infinity	1' 9"	infinity	1' 4"	infinity
9'0"	6' 7"	14' 3"	5' 11"	18' 6"	5' 3"	33' 0"	4' 5"	infinity	3' 8"	infinity	2' 11"	infinity	2' 4"	infinity	1' 9"	infinity	1' 4"	infinity
8'6"	6' 4"	13' 0"	5' 9"	16' 6"	5' 0"	27' 1"	4' 4"	288' 11"	3' 7"	infinity	2' 11"	infinity	2' 3"	infinity	1' 9"	infinity	1' 4"	infinity
8'0"	6' 0"	11' 11"	5' 6"	14' 9"	4' 10"	22' 7"	4' 2"	92' 1"	3' 6"	infinity	2' 10"	infinity	2' 3"	infinity	1' 9"	infinity	1' 4"	infinity
7'6"	5' 9"	10' 10"	5' 3"	13' 1"	4' 8"	19' 0"	4' 0"	52' 0"	3' 5"	infinity	2' 9"	infinity	2' 2"	infinity	1' 8"	infinity	1' 4"	infinity
7'0"	5' 5"	9' 10"	5' 0"	11' 8"	4' 6"	16' 1"	3' 11"	34' 8"	3' 3"	infinity	2' 8"	infinity	2' 2"	infinity	1' 8"	infinity	1' 4"	infinity
6'6"	5' 2"	8' 10"	4' 9"	10' 4"	4' 3"	13' 8"	3' 9"	25' 1"	3' 2"	infinity	2' 7"	infinity	2' 1"	infinity	1' 8"	infinity	1' 3"	infinity
6'0"	4' 10"	7' 11"	4' 6"	9' 1"	4' 1"	11' 7"	3' 7"	18' 11"	3' 1"	179' 7"	2' 6"	infinity	2' 1"	infinity	1' 7"	infinity	1' 3"	infinity
5'6"	4' 6"	7' 1"	4' 2 1/2"	8' 0"	3' 9 1/2"	9' 10 1/2"	3' 4 1/2"	14' 8 1/2"	2' 11"	48' 0"	2' 5 1/2"	infinity	2' 0"	infinity	1' 7"	infinity	1' 3"	infinity
5'0"	4' 2"	6' 3 1/2"	3' 10 1/2"	7' 0"	3' 7"	8' 4 1/2"	3' 2 1/2"	11' 7"	2' 9 1/2"	25' 6"	2' 4"	infinity	1' 11"	infinity	1' 6 1/2"	infinity	1' 2 1/2"	infinity
4'9"	4' 0"	5' 10 1/2"	3' 9"	6' 6"	3' 5 1/2"	7' 8"	3' 1"	10' 4"	2' 8 1/2"	20' 1"	2' 3 1/2"	infinity	1' 10 1/2"	infinity	1' 6"	infinity	1' 2 1/2"	infinity
4'6"	3' 9 1/2"	5' 6"	3' 7"	6' 1/2"	3' 3 1/2"	7' 1/2"	2' 11 1/2"	9' 2 1/2"	2' 7 1/2"	16' 3"	2' 2 1/2"	infinity	1' 10"	infinity	1' 5 1/2"	infinity	1' 2"	infinity
4'3"	3' 7 1/2"	5' 1 1/2"	3' 5"	5' 7"	3' 2"	6' 5 1/2"	2' 10 1/2"	8' 2 1/2"	2' 6 1/2"	13' 4 1/2"	2' 2"	119' 11"	1' 9 1/2"	infinity	1' 5 1/2"	infinity	1' 2"	infinity
4'0"	3' 5 1/2"	4' 9 1/2"	3' 3"	5' 2"	3' 1/2"	5' 10 1/2"	2' 9"	7' 4"	2' 5"	11' 2"	2' 1"	43' 1"	1' 9"	infinity	1' 5"	infinity	1' 1 1/2"	infinity
3'9"	3' 3"	4' 5"	3' 1"	4' 9"	2' 10 1/2"	5' 4 1/2"	2' 7 1/2"	6' 6"	2' 4"	9' 5"	2' 1/2"	24' 11"	1' 8 1/2"	infinity	1' 4 1/2"	infinity	1' 1 1/2"	infinity
3'6"	3' 1"	4' 1"	2' 11"	4' 4 1/2"	2' 9"	4' 10 1/2"	2' 6"	5' 9 1/2"	2' 3"	7' 11 1/2"	1' 11 1/2"	16' 10"	1' 8"	infinity	1' 4 1/2"	infinity	1' 1"	infinity
3'3"	2' 10 1/2"	3' 9"	2' 9"	4' 0"	2' 7"	4' 4 1/2"	2' 4 1/2"	5' 1 1/2"	2' 1 1/2"	6' 9"	1' 10 1/2"	12' 3"	1' 7"	infinity	1' 4"	infinity	1' 1"	infinity
3'0"	2' 8"	3' 5"	2' 7"	3' 7 1/2"	2' 5"	3' 11 1/2"	2' 3"	4' 6 1/2"	2' 1/2"	5' 9"	1' 9 1/2"	9' 3 1/2"	1' 6 1/2"	70' 1"	1' 3 1/2"	infinity	1' 1/2"	infinity
2'9"	2' 5 1/2"	3' 1"	2' 4 1/2"	3' 3"	2' 3"	3' 6 1/2"	2' 1"	4' 0"	1' 11"	4' 11"	1' 8 1/2"	7' 3"	1' 5 1/2"	22' 2"	1' 2 1/2"	infinity	1' 0"	infinity
2'6"	2' 3 1/2"	2' 9 1/2"	2' 2 1/2"	2' 11"	2' 1"	3' 1 1/2"	1' 11 1/2"	3' 5 1/2"	1' 9 1/2"	4' 2"	1' 7"	5' 8 1/2"	1' 4 1/2"	12' 2"	1' 2"	infinity	1' 0"	infinity
2'3"	2' 1"	2' 5 1/2"	2' 0"	2' 7"	1' 11"	2' 9"	1' 9 1/2"	3' 0"	1' 8"	3' 6"	1' 6"	4' 6 1/2"	1' 4"	7' 10 1/2"	1' 1 1/2"	infinity	0' 11 1/2"	infinity
2'0"	1' 10"	2' 2"	1' 9 1/2"	2' 3"	1' 8 1/2"	2' 4 1/2"	1' 7 1/2"	2' 7"	1' 6"	2' 11"	1' 4 1/2"	3' 7 1/2"	1' 2 1/2"	5' 5 1/2"	1' 1/2"	18' 11"	0' 10 1/2"	infinity
1'9"	1' 7 1/2"	1' 10 1/2"	1' 7"	1' 11 1/2"	1' 6 1/2"	2' 1/2"	1' 5 1/2"	2' 2"	1' 4 1/2"	2' 5"	1' 3"	2' 10 1/2"	1' 1 1/2"	3' 11"	1' 0"	7' 11 1/2"	0' 10"	infinity
1'6"	1' 5"	1' 7"	1' 4 1/2"	1' 7 1/2"	1' 4"	1' 8 1/2"	1' 3 1/2"	1' 9 1/2"	1' 2 1/2"	1' 11 1/2"	1' 1 1/2"	2' 3"	1' 0"	2' 10"	0' 11"	4' 5 1/2"	0' 9 1/2"	18' 3"
1'4"	1' 3"	1' 5"	1' 3"	1' 5 1/2"	1' 2 1/2"	1' 6"	1' 2"	1' 7"	1' 1"	1' 8"	1' 1/2"	1' 10 1/2"	0' 11 1/2"	2' 3 1/2"	0' 10"	3' 3"	0' 9"	7' 1"



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Depth of Field

Circle of Confusion 0.025 mm
Focal Length 18 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	32' 0"	infinity	22' 9"	infinity	16' 1"	infinity	11' 5"	infinity	8' 1"	infinity	5' 9"	infinity	4' 1"	infinity	2' 11"	infinity	2' 1"	infinity
60'0"	20' 10"	infinity	16' 6"	infinity	12' 8"	infinity	9' 7"	infinity	7' 2"	infinity	5' 3"	infinity	3' 10"	infinity	2' 9"	infinity	2' 0"	infinity
40'0"	17' 9"	infinity	14' 6"	infinity	11' 6"	infinity	8' 11"	infinity	6' 9"	infinity	5' 0"	infinity	3' 8"	infinity	2' 8"	infinity	1' 11"	infinity
30'0"	15' 6"	472' 9"	12' 11"	infinity	10' 6"	infinity	8' 3"	infinity	6' 5"	infinity	4' 10"	infinity	3' 7"	infinity	2' 8"	infinity	1' 11"	infinity
25'0"	14' 1"	113' 9"	11' 11"	infinity	9' 10"	infinity	7' 10"	infinity	6' 2"	infinity	4' 8"	infinity	3' 6"	infinity	2' 7"	infinity	1' 11"	infinity
20'0"	12' 4"	53' 2"	10' 8"	162' 7"	8' 11"	infinity	7' 3"	infinity	5' 9"	infinity	4' 6"	infinity	3' 5"	infinity	2' 6"	infinity	1' 10"	infinity
17'0"	11' 1"	36' 2"	9' 9"	66' 8"	8' 3"	infinity	6' 10"	infinity	5' 6"	infinity	4' 4"	infinity	3' 4"	infinity	2' 6"	infinity	1' 10"	infinity
15'0"	10' 3"	28' 2"	9' 1"	43' 9"	7' 9"	207' 4"	6' 6"	infinity	5' 3"	infinity	4' 2"	infinity	3' 3"	infinity	2' 5"	infinity	1' 10"	infinity
13'0"	9' 3"	21' 10"	8' 3"	30' 2"	7' 2"	66' 2"	6' 1"	infinity	5' 0"	infinity	4' 0"	infinity	3' 1"	infinity	2' 5"	infinity	1' 9"	infinity
12'0"	8' 9"	19' 2"	7' 10"	25' 3"	6' 11"	46' 5"	5' 10"	infinity	4' 10"	infinity	3' 11"	infinity	3' 1"	infinity	2' 4"	infinity	1' 9"	infinity
11'0"	8' 2"	16' 9"	7' 5"	21' 2"	6' 7"	34' 4"	5' 7"	257' 1"	4' 8"	infinity	3' 9"	infinity	3' 0"	infinity	2' 4"	infinity	1' 9"	infinity
10'0"	7' 8"	14' 6"	6' 11"	17' 9"	6' 2"	26' 1"	5' 4"	76' 9"	4' 6"	infinity	3' 8"	infinity	2' 11"	infinity	2' 3"	infinity	1' 9"	infinity
9'6"	7' 4"	13' 6"	6' 9"	16' 3"	6' 0"	22' 11"	5' 2"	54' 7"	4' 5"	infinity	3' 7"	infinity	2' 10"	infinity	2' 3"	infinity	1' 8"	infinity
9'0"	7' 0"	12' 6"	6' 6"	14' 10"	5' 9"	20' 3"	5' 1"	41' 4"	4' 3"	infinity	3' 6"	infinity	2' 10"	infinity	2' 2"	infinity	1' 8"	infinity
8'6"	6' 9"	11' 7"	6' 2"	13' 6"	5' 7"	17' 10"	4' 11"	32' 6"	4' 2"	infinity	3' 5"	infinity	2' 9"	infinity	2' 2"	infinity	1' 8"	infinity
8'0"	6' 5"	10' 8"	5' 11"	12' 4"	5' 4"	15' 9"	4' 9"	26' 2"	4' 1"	374' 2"	3' 4"	infinity	2' 9"	infinity	2' 2"	infinity	1' 8"	infinity
7'6"	6' 1"	9' 9"	5' 8"	11' 2"	5' 2"	13' 11"	4' 7"	21' 6"	3' 11"	90' 4"	3' 3"	infinity	2' 8"	infinity	2' 1"	infinity	1' 7"	infinity
7'0"	5' 9"	8' 11"	5' 4"	10' 1"	4' 11"	12' 4"	4' 4"	17' 10"	3' 9"	48' 5"	3' 2"	infinity	2' 7"	infinity	2' 1"	infinity	1' 7"	infinity
6'6"	5' 5"	8' 2"	5' 1"	9' 1"	4' 8"	10' 10"	4' 2"	14' 11"	3' 7"	31' 6"	3' 1"	infinity	2' 6"	infinity	2' 0"	infinity	1' 7"	infinity
6'0"	5' 1"	7' 4"	4' 9"	8' 1"	4' 5"	9' 6"	3' 11"	12' 6"	3' 6"	22' 5"	2' 11"	infinity	2' 5"	infinity	2' 0"	infinity	1' 6"	infinity
5'6"	4' 8 1/2"	6' 7 1/2"	4' 5 1/2"	7' 3"	4' 1 1/2"	8' 3 1/2"	3' 8 1/2"	10' 6"	3' 3 1/2"	16' 8"	2' 10"	101' 2"	2' 4 1/2"	infinity	1' 11"	infinity	1' 6"	infinity
5'0"	4' 4"	5' 11"	4' 1 1/2"	6' 4 1/2"	3' 10"	7' 2 1/2"	3' 6"	8' 9 1/2"	3' 1 1/2"	12' 9 1/2"	2' 8 1/2"	35' 5"	2' 3"	infinity	1' 10"	infinity	1' 5 1/2"	infinity
4'9"	4' 1 1/2"	5' 7"	3' 11 1/2"	6' 0"	3' 8"	6' 8 1/2"	3' 4 1/2"	8' 1/2"	3' 0"	11' 3"	2' 7 1/2"	25' 9"	2' 2 1/2"	infinity	1' 10"	infinity	1' 5 1/2"	infinity
4'6"	3' 11 1/2"	5' 2 1/2"	3' 9"	5' 7"	3' 6 1/2"	6' 2 1/2"	3' 3"	7' 4 1/2"	2' 11"	9' 11 1/2"	2' 6 1/2"	19' 9"	2' 2"	infinity	1' 9 1/2"	infinity	1' 5"	infinity
4'3"	3' 9"	4' 10 1/2"	3' 7"	5' 2 1/2"	3' 4 1/2"	5' 9"	3' 1 1/2"	6' 8 1/2"	2' 9 1/2"	8' 9 1/2"	2' 5 1/2"	15' 8"	2' 1"	infinity	1' 9"	infinity	1' 5"	infinity
4'0"	3' 6 1/2"	4' 6 1/2"	3' 5"	4' 10"	3' 2 1/2"	5' 3 1/2"	2' 11 1/2"	6' 1 1/2"	2' 8 1/2"	7' 9 1/2"	2' 4 1/2"	12' 8"	2' 1/2"	116' 11"	1' 8 1/2"	infinity	1' 4 1/2"	infinity
3'9"	3' 4 1/2"	4' 3"	3' 2 1/2"	4' 5 1/2"	3' 1/2"	4' 10 1/2"	2' 10"	5' 6 1/2"	2' 7"	6' 10 1/2"	2' 3 1/2"	10' 6"	1' 11 1/2"	39' 3"	1' 8"	infinity	1' 4"	infinity
3'6"	3' 2"	3' 11"	3' 1/2"	4' 1 1/2"	2' 10 1/2"	4' 5 1/2"	2' 8 1/2"	5' 0"	2' 5 1/2"	6' 1"	2' 2 1/2"	8' 8 1/2"	1' 11"	22' 4"	1' 7"	infinity	1' 3 1/2"	infinity
3'3"	2' 11 1/2"	3' 7 1/2"	2' 10"	3' 9 1/2"	2' 8 1/2"	4' 1/2"	2' 6 1/2"	4' 6"	2' 4"	5' 4 1/2"	2' 1"	7' 3 1/2"	1' 10"	14' 11"	1' 6 1/2"	infinity	1' 3 1/2"	infinity
3'0"	2' 9"	3' 3 1/2"	2' 8"	3' 5 1/2"	2' 6 1/2"	3' 8"	2' 4 1/2"	4' 1/2"	2' 2 1/2"	4' 8 1/2"	2' 0"	6' 1 1/2"	1' 9"	10' 9"	1' 6"	infinity	1' 3"	infinity
2'9"	2' 6 1/2"	3' 0"	2' 5 1/2"	3' 1 1/2"	2' 4 1/2"	3' 3 1/2"	2' 2 1/2"	3' 7"	2' 1"	4' 1 1/2"	1' 10 1/2"	5' 2"	1' 8"	8' 1"	1' 5"	39' 1"	1' 2 1/2"	infinity
2'6"	2' 4"	2' 8 1/2"	2' 3"	2' 9 1/2"	2' 2"	2' 11 1/2"	2' 1/2"	3' 2"	1' 11"	3' 7"	1' 9"	4' 4"	1' 7"	6' 2 1/2"	1' 4 1/2"	15' 11"	1' 1 1/2"	infinity
2'3"	2' 1 1/2"	2' 5"	2' 1/2"	2' 6"	2' 0"	2' 7 1/2"	1' 10 1/2"	2' 9 1/2"	1' 9 1/2"	3' 1"	1' 7 1/2"	3' 7 1/2"	1' 5 1/2"	4' 10 1/2"	1' 3 1/2"	9' 3"	1' 1"	infinity
2'0"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2"	1' 9 1/2"	2' 3 1/2"	1' 8 1/2"	2' 5"	1' 7 1/2"	2' 7 1/2"	1' 6"	3' 0"	1' 4 1/2"	3' 10"	1' 2 1/2"	6' 1"	1' 1/2"	36' 3 1/2"
1'9"	1' 8"	1' 10"	1' 7 1/2"	1' 10 1/2"	1' 7"	1' 11 1/2"	1' 6 1/2"	2' 1/2"	1' 5 1/2"	2' 2 1/2"	1' 4"	2' 5 1/2"	1' 3"	3' 0"	1' 1 1/2"	4' 2 1/2"	0' 11 1/2"	9' 11"
1'6"	1' 5"	1' 7"	1' 5"	1' 7"	1' 4 1/2"	1' 8"	1' 4"	1' 8 1/2"	1' 3 1/2"	1' 10"	1' 2 1/2"	2' 0"	1' 1 1/2"	2' 4"	1' 0"	3' 0"	0' 10 1/2"	5' 1/2"



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Depth of Field

Circle of Confusion 0.025 mm
Focal Length 21 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	43' 6"	infinity	31' 4"	infinity	22' 3"	infinity	15' 9"	infinity	11' 2"	infinity	7' 11"	infinity	5' 7"	infinity	4' 0"	infinity	2' 10"	infinity
60'0"	25' 3"	infinity	20' 7"	infinity	16' 3"	infinity	12' 6"	infinity	9' 5"	infinity	7' 0"	infinity	5' 1"	infinity	3' 9"	infinity	2' 8"	infinity
40'0"	20' 10"	485' 9"	17' 7"	infinity	14' 4"	infinity	11' 4"	infinity	8' 9"	infinity	6' 7"	infinity	4' 11"	infinity	3' 7"	infinity	2' 8"	infinity
30'0"	17' 9"	96' 1"	15' 4"	654' 11"	12' 10"	infinity	10' 4"	infinity	8' 2"	infinity	6' 3"	infinity	4' 9"	infinity	3' 6"	infinity	2' 7"	infinity
25'0"	15' 11"	58' 6"	13' 11"	121' 10"	11' 10"	infinity	9' 8"	infinity	7' 9"	infinity	6' 0"	infinity	4' 7"	infinity	3' 5"	infinity	2' 6"	infinity
20'0"	13' 9"	36' 11"	12' 3"	54' 10"	10' 7"	191' 3"	8' 10"	infinity	7' 2"	infinity	5' 8"	infinity	4' 5"	infinity	3' 4"	infinity	2' 6"	infinity
17'0"	12' 3"	27' 10"	11' 0"	36' 11"	9' 8"	71' 0"	8' 2"	infinity	6' 9"	infinity	5' 5"	infinity	4' 3"	infinity	3' 3"	infinity	2' 5"	infinity
15'0"	11' 2"	22' 10"	10' 2"	28' 8"	9' 0"	45' 7"	7' 8"	282' 2"	6' 5"	infinity	5' 2"	infinity	4' 1"	infinity	3' 2"	infinity	2' 5"	infinity
13'0"	10' 0"	18' 6"	9' 2"	22' 1"	8' 3"	31' 0"	7' 2"	72' 3"	6' 0"	infinity	4' 11"	infinity	3' 11"	infinity	3' 1"	infinity	2' 4"	infinity
12'0"	9' 5"	16' 6"	8' 8"	19' 4"	7' 10"	25' 10"	6' 10"	49' 4"	5' 10"	infinity	4' 9"	infinity	3' 10"	infinity	3' 0"	infinity	2' 3"	infinity
11'0"	8' 9"	14' 8"	8' 2"	16' 11"	7' 5"	21' 7"	6' 6"	35' 10"	5' 7"	557' 8"	4' 7"	infinity	3' 9"	infinity	2' 11"	infinity	2' 3"	infinity
10'0"	8' 2"	12' 11"	7' 7"	14' 8"	6' 11"	18' 1"	6' 2"	27' 0"	5' 3"	91' 5"	4' 5"	infinity	3' 7"	infinity	2' 10"	infinity	2' 2"	infinity
9'6"	7' 10"	12' 2"	7' 4"	13' 7"	6' 8"	16' 6"	5' 11"	23' 8"	5' 2"	61' 7"	4' 4"	infinity	3' 6"	infinity	2' 10"	infinity	2' 2"	infinity
9'0"	7' 6"	11' 4"	7' 0"	12' 7"	6' 5"	15' 0"	5' 9"	20' 9"	5' 0"	45' 2"	4' 3"	infinity	3' 6"	infinity	2' 9"	infinity	2' 2"	infinity
8'6"	7' 1"	10' 7"	6' 8"	11' 7"	6' 2"	13' 8"	5' 6"	18' 3"	4' 10"	34' 10"	4' 1"	infinity	3' 5"	infinity	2' 9"	infinity	2' 1"	infinity
8'0"	6' 9"	9' 9"	6' 5"	10' 8"	5' 11"	12' 5"	5' 4"	16' 1"	4' 8"	27' 8"	4' 0"	infinity	3' 4"	infinity	2' 8"	infinity	2' 1"	infinity
7'6"	6' 5"	9' 1"	6' 1"	9' 10"	5' 7"	11' 3"	5' 1"	14' 2"	4' 6"	22' 6"	3' 10"	124' 9"	3' 3"	infinity	2' 7"	infinity	2' 1"	infinity
7'0"	6' 0"	8' 4"	5' 9"	9' 0"	5' 4"	10' 2"	4' 10"	12' 6"	4' 4"	18' 6"	3' 9"	56' 9"	3' 2"	infinity	2' 7"	infinity	2' 0"	infinity
6'6"	5' 8"	7' 8"	5' 5"	8' 2"	5' 1"	9' 2"	4' 7"	11' 0"	4' 1"	15' 4"	3' 7"	34' 10"	3' 0"	infinity	2' 6"	infinity	2' 0"	infinity
6'0"	5' 3"	6' 11"	5' 1"	7' 5"	4' 9"	8' 2"	4' 4"	9' 7"	3' 11"	12' 10"	3' 5"	24' 0"	2' 11"	infinity	2' 5"	infinity	1' 11"	infinity
5'6"	4' 10 1/2"	6' 3 1/2"	4' 8 1/2"	6' 8"	4' 5"	7' 3 1/2"	4' 1"	8' 4 1/2"	3' 8 1/2"	10' 9"	3' 3"	17' 7"	2' 9 1/2"	185' 5"	2' 4"	infinity	1' 10 1/2"	infinity
5'0"	4' 6"	5' 7 1/2"	4' 4"	5' 11"	4' 1"	6' 5"	3' 9 1/2"	7' 3 1/2"	3' 5 1/2"	8' 11 1/2"	3' 1"	13' 3"	2' 8"	42' 0"	2' 2 1/2"	infinity	1' 10"	infinity
4'9"	4' 3 1/2"	5' 4"	4' 1 1/2"	5' 7"	3' 11"	6' 0"	3' 8"	6' 9"	3' 4"	8' 2"	3' 0"	11' 8"	2' 7"	29' 0"	2' 2"	infinity	1' 9 1/2"	infinity
4'6"	4' 1"	5' 0"	3' 11 1/2"	5' 3"	3' 9"	5' 7 1/2"	3' 6"	6' 3"	3' 2 1/2"	7' 5 1/2"	2' 10 1/2"	10' 3"	2' 6"	21' 7"	2' 1 1/2"	infinity	1' 9"	infinity
4'3"	3' 10 1/2"	4' 8 1/2"	3' 9"	4' 11"	3' 7"	5' 3"	3' 4 1/2"	5' 9 1/2"	3' 1"	6' 9 1/2"	2' 9 1/2"	9' 0"	2' 5"	16' 10"	2' 1"	infinity	1' 8 1/2"	infinity
4'0"	3' 8"	4' 5"	3' 6 1/2"	4' 7"	3' 5"	4' 10 1/2"	3' 2 1/2"	5' 4"	2' 11 1/2"	6' 2"	2' 8"	7' 11"	2' 4"	13' 5"	2' 0"	445' 10"	1' 8"	infinity
3'9"	3' 5 1/2"	4' 1"	3' 4 1/2"	4' 3"	3' 2 1/2"	4' 6"	3' 1/2"	4' 10 1/2"	2' 10"	5' 7"	2' 6 1/2"	7' 0"	2' 3"	10' 11"	1' 11 1/2"	52' 1"	1' 7 1/2"	infinity
3'6"	3' 3"	3' 9 1/2"	3' 2"	3' 11"	3' 1/2"	4' 1 1/2"	2' 10 1/2"	4' 5 1/2"	2' 8"	5' 1/2"	2' 5 1/2"	6' 2"	2' 2"	9' 1"	1' 10 1/2"	25' 11"	1' 7"	infinity
3'3"	3' 1/2"	3' 6"	2' 11 1/2"	3' 7 1/2"	2' 10"	3' 9 1/2"	2' 8 1/2"	4' 1"	2' 6 1/2"	4' 6 1/2"	2' 4"	5' 5 1/2"	2' 1"	7' 6"	1' 9 1/2"	16' 5"	1' 6 1/2"	infinity
3'0"	2' 9 1/2"	3' 2 1/2"	2' 9"	3' 3 1/2"	2' 8"	3' 5 1/2"	2' 6 1/2"	3' 8"	2' 4 1/2"	4' 1"	2' 2 1/2"	4' 9"	1' 11 1/2"	6' 4"	1' 8 1/2"	11' 6"	1' 5 1/2"	infinity
2'9"	2' 7"	2' 11"	2' 6 1/2"	3' 0"	2' 5 1/2"	3' 1 1/2"	2' 4"	3' 4"	2' 2 1/2"	3' 7 1/2"	2' 1/2"	4' 2"	1' 10 1/2"	5' 3"	1' 7 1/2"	8' 6"	1' 5"	60' 2 1/2"
2'6"	2' 4 1/2"	2' 8"	2' 4"	2' 8 1/2"	2' 3"	2' 9 1/2"	2' 2"	2' 11 1/2"	2' 1/2"	3' 2 1/2"	1' 11"	3' 7 1/2"	1' 9"	4' 5"	1' 6 1/2"	6' 5"	1' 4"	18' 7"
2'3"	2' 1 1/2"	2' 4 1/2"	2' 1"	2' 5"	2' 1/2"	2' 6"	1' 11 1/2"	2' 7 1/2"	1' 10 1/2"	2' 9 1/2"	1' 9"	3' 1 1/2"	1' 7 1/2"	3' 8"	1' 5 1/2"	5' 0"	1' 3"	10' 1/2"
2'0"	1' 11"	2' 1"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2 1/2"	1' 9 1/2"	2' 3 1/2"	1' 8 1/2"	2' 5"	1' 7 1/2"	2' 8"	1' 6"	3' 1/2"	1' 4"	3' 11"	1' 2"	6' 5"
1'9"	1' 8"	1' 10"	1' 8"	1' 10"	1' 7 1/2"	1' 10 1/2"	1' 7"	1' 11 1/2"	1' 6"	2' 1/2"	1' 5 1/2"	2' 2 1/2"	1' 4"	2' 6"	1' 2 1/2"	3' 1/2"	1' 1"	4' 4 1/2"
1'6"	1' 5 1/2"	1' 6 1/2"	1' 5"	1' 7"	1' 5"	1' 7"	1' 4 1/2"	1' 8"	1' 4"	1' 8 1/2"	1' 3"	1' 10"	1' 2 1/2"	2' 0"	1' 1"	2' 4"	1' 0"	3' 1/2"
1'3"	1' 2 1/2"	1' 3 1/2"	1' 2 1/2"	1' 3 1/2"	1' 2"	1' 4"	1' 2"	1' 4"	1' 1 1/2"	1' 5"	1' 1"	1' 5 1/2"	1' 1/2"	1' 7"	0' 11 1/2"	1' 9 1/2"	0' 10 1/2"	2' 2"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 25 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	61' 8"	infinity	44' 1"	infinity	31' 4"	infinity	22' 2"	infinity	15' 8"	infinity	11' 1"	infinity	7' 11"	infinity	5' 7"	infinity	3' 11"	infinity
60' 0"	30' 5"	212' 1"	25' 5"	infinity	20' 7"	infinity	16' 2"	infinity	12' 5"	infinity	9' 5"	infinity	7' 0"	infinity	5' 1"	infinity	3' 9"	infinity
40' 0"	24' 3"	113' 5"	21' 0"	422' 1"	17' 7"	infinity	14' 3"	infinity	11' 3"	infinity	8' 9"	infinity	6' 7"	infinity	4' 11"	infinity	3' 7"	infinity
30' 0"	20' 2"	58' 3"	17' 10"	93' 4"	15' 4"	676' 9"	12' 9"	infinity	10' 4"	infinity	8' 2"	infinity	6' 3"	infinity	4' 9"	infinity	3' 6"	infinity
25' 0"	17' 10"	41' 11"	16' 0"	57' 6"	13' 11"	122' 6"	11' 9"	infinity	9' 8"	infinity	7' 9"	infinity	6' 0"	infinity	4' 7"	infinity	3' 5"	infinity
20' 0"	15' 1"	29' 6"	13' 9"	36' 6"	12' 3"	55' 0"	10' 6"	197' 1"	8' 10"	infinity	7' 2"	infinity	5' 8"	infinity	4' 5"	infinity	3' 4"	infinity
17' 0"	13' 4"	23' 5"	12' 3"	27' 7"	11' 0"	37' 0"	9' 8"	71' 9"	8' 2"	infinity	6' 9"	infinity	5' 5"	infinity	4' 3"	infinity	3' 3"	infinity
15' 0"	12' 1"	19' 9"	11' 2"	22' 8"	10' 2"	28' 8"	9' 0"	45' 10"	7' 8"	307' 7"	6' 5"	infinity	5' 2"	infinity	4' 1"	infinity	3' 2"	infinity
13' 0"	10' 9"	16' 5"	10' 1"	18' 5"	9' 2"	22' 2"	8' 3"	31' 2"	7' 2"	73' 9"	6' 0"	infinity	4' 11"	infinity	3' 11"	infinity	3' 1"	infinity
12' 0"	10' 1"	14' 10"	9' 5"	16' 5"	8' 8"	19' 5"	7' 10"	25' 11"	6' 10"	50' 0"	5' 9"	infinity	4' 9"	infinity	3' 10"	infinity	3' 0"	infinity
11' 0"	9' 4"	13' 4"	8' 10"	14' 7"	8' 2"	16' 11"	7' 4"	21' 8"	6' 6"	36' 2"	5' 7"	623' 10"	4' 7"	infinity	3' 9"	infinity	2' 11"	infinity
10' 0"	8' 7"	11' 11"	8' 2"	12' 11"	7' 7"	14' 8"	6' 11"	18' 1"	6' 2"	27' 2"	5' 3"	92' 11"	4' 5"	infinity	3' 7"	infinity	2' 10"	infinity
9' 6"	8' 3"	11' 3"	7' 10"	12' 1"	7' 4"	13' 7"	6' 8"	16' 6"	5' 11"	23' 9"	5' 2"	62' 3"	4' 4"	infinity	3' 6"	infinity	2' 10"	infinity
9' 0"	7' 10"	10' 6"	7' 6"	11' 3"	7' 0"	12' 7"	6' 5"	15' 1"	5' 9"	20' 10"	5' 0"	45' 7"	4' 3"	infinity	3' 6"	infinity	2' 9"	infinity
8' 6"	7' 6"	9' 10"	7' 2"	10' 6"	6' 8"	11' 8"	6' 2"	13' 8"	5' 6"	18' 4"	4' 10"	35' 0"	4' 1"	infinity	3' 5"	infinity	2' 9"	infinity
8' 0"	7' 1"	9' 2"	6' 9"	9' 9"	6' 5"	10' 9"	5' 11"	12' 5"	5' 4"	16' 2"	4' 8"	27' 10"	4' 0"	infinity	3' 4"	infinity	2' 8"	infinity
7' 6"	6' 8"	8' 6"	6' 5"	9' 0"	6' 1"	9' 10"	5' 7"	11' 3"	5' 1"	14' 3"	4' 6"	22' 7"	3' 10"	128' 2"	3' 3"	infinity	2' 7"	infinity
7' 0"	6' 4"	7' 11"	6' 1"	8' 4"	5' 9"	9' 0"	5' 4"	10' 2"	4' 10"	12' 6"	4' 4"	18' 6"	3' 9"	57' 5"	3' 2"	infinity	2' 7"	infinity
6' 6"	5' 11"	7' 3"	5' 8"	7' 7"	5' 5"	8' 2"	5' 0"	9' 2"	4' 7"	11' 0"	4' 1"	15' 5"	3' 7"	35' 1"	3' 0"	infinity	2' 6"	infinity
6' 0"	5' 6"	6' 8"	5' 3"	6' 11"	5' 1"	7' 5"	4' 9"	8' 2"	4' 4"	9' 8"	3' 11"	12' 10"	3' 5"	24' 1"	2' 11"	infinity	2' 5"	infinity
5' 6"	5' 1/2"	6' 1/2"	4' 11"	6' 3"	4' 8 1/2"	6' 8"	4' 5"	7' 3 1/2"	4' 1"	8' 5"	3' 8 1/2"	10' 9"	3' 3"	17' 7"	2' 9 1/2"	185' 7"	2' 4"	infinity
5' 0"	4' 7 1/2"	5' 5"	4' 6"	5' 7 1/2"	4' 4"	5' 11"	4' 1"	6' 5"	3' 9 1/2"	7' 3 1/2"	3' 5 1/2"	9' 0"	3' 1"	13' 4"	2' 8"	41' 11"	2' 3"	infinity
4' 9"	4' 5"	5' 1 1/2"	4' 3 1/2"	5' 3 1/2"	4' 1 1/2"	5' 7"	3' 11"	6' 0"	3' 8"	6' 9"	3' 4"	8' 2"	3' 0"	11' 8"	2' 7"	29' 0"	2' 2"	infinity
4' 6"	4' 2 1/2"	4' 10"	4' 1"	5' 0"	3' 11 1/2"	5' 3"	3' 9"	5' 7 1/2"	3' 6"	6' 3"	3' 2 1/2"	7' 6"	2' 10 1/2"	10' 3"	2' 6"	21' 7"	2' 1 1/2"	infinity
4' 3"	4' 0"	4' 6 1/2"	3' 10 1/2"	4' 8 1/2"	3' 9"	4' 11"	3' 7"	5' 3"	3' 4 1/2"	5' 9 1/2"	3' 1"	6' 10"	2' 9 1/2"	9' 0"	2' 5"	16' 9"	2' 1"	infinity
4' 0"	3' 9"	4' 3 1/2"	3' 8"	4' 4 1/2"	3' 6 1/2"	4' 7"	3' 5"	4' 10 1/2"	3' 2 1/2"	5' 4"	2' 11 1/2"	6' 2"	2' 8"	7' 11"	2' 4"	13' 5"	2' 0"	409' 5 1/2"
3' 9"	3' 6 1/2"	4' 0"	3' 5 1/2"	4' 1"	3' 4 1/2"	4' 3"	3' 2 1/2"	4' 6"	3' 1/2"	4' 10 1/2"	2' 10"	5' 7"	2' 6 1/2"	7' 0"	2' 3"	10' 11"	1' 11 1/2"	51' 5"
3' 6"	3' 4"	3' 8 1/2"	3' 3"	3' 9 1/2"	3' 2"	3' 11"	3' 1/2"	4' 1 1/2"	2' 10 1/2"	4' 5 1/2"	2' 8"	5' 1/2"	2' 5 1/2"	6' 2"	2' 2"	9' 0"	1' 10 1/2"	25' 8 1/2"
3' 3"	3' 1"	3' 5"	3' 1/2"	3' 6"	2' 11 1/2"	3' 7 1/2"	2' 10"	3' 9 1/2"	2' 8 1/2"	4' 1"	2' 6 1/2"	4' 6 1/2"	2' 4"	5' 5"	2' 1"	7' 6"	1' 9 1/2"	16' 3 1/2"
3' 0"	2' 10 1/2"	3' 2"	2' 10"	3' 2 1/2"	2' 9"	3' 3 1/2"	2' 8"	3' 5 1/2"	2' 6 1/2"	3' 8"	2' 4 1/2"	4' 1"	2' 2 1/2"	4' 9"	1' 11 1/2"	6' 3"	1' 8 1/2"	11' 5"
2' 9"	2' 7 1/2"	2' 10 1/2"	2' 7"	2' 11"	2' 6 1/2"	3' 0"	2' 5 1/2"	3' 1 1/2"	2' 4"	3' 4"	2' 2 1/2"	3' 7 1/2"	2' 1/2"	4' 2"	1' 10 1/2"	5' 3"	1' 7 1/2"	8' 5 1/2"
2' 6"	2' 5"	2' 7"	2' 4 1/2"	2' 7 1/2"	2' 4"	2' 8 1/2"	2' 3"	2' 9 1/2"	2' 2"	2' 11 1/2"	2' 1/2"	3' 2 1/2"	1' 11"	3' 7 1/2"	1' 9"	4' 5"	1' 6 1/2"	6' 5"
2' 3"	2' 2"	2' 4"	2' 1 1/2"	2' 4 1/2"	2' 1 1/2"	2' 5"	2' 1/2"	2' 6"	1' 11 1/2"	2' 7 1/2"	1' 10 1/2"	2' 9 1/2"	1' 9"	3' 1"	1' 7 1/2"	3' 8"	1' 5 1/2"	4' 11 1/2"
2' 0"	1' 11 1/2"	2' 1"	1' 11"	2' 1"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2 1/2"	1' 9 1/2"	2' 3 1/2"	1' 8 1/2"	2' 5"	1' 7 1/2"	2' 7 1/2"	1' 6"	3' 1"	1' 4"	3' 10 1/2"
1' 9"	1' 8 1/2"	1' 9 1/2"	1' 8"	1' 10"	1' 8"	1' 10"	1' 7 1/2"	1' 10 1/2"	1' 7"	1' 11 1/2"	1' 6 1/2"	2' 1/2"	1' 5 1/2"	2' 2 1/2"	1' 4"	2' 6"	1' 3"	3' 1/2"
1' 6"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5"	1' 7"	1' 5"	1' 7"	1' 4 1/2"	1' 8"	1' 4"	1' 8 1/2"	1' 3 1/2"	1' 10"	1' 2 1/2"	2' 0"	1' 1 1/2"	2' 4"
1' 3"	1' 2 1/2"	1' 3 1/2"	1' 2 1/2"	1' 3 1/2"	1' 2 1/2"	1' 3 1/2"	1' 2"	1' 4"	1' 2"	1' 4"	1' 1 1/2"	1' 5"	1' 1"	1' 5 1/2"	1' 1/2"	1' 7"	0' 11 1/2"	1' 9 1/2"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 29 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	83' 0"	infinity	59' 4"	infinity	42' 1"	infinity	29' 10"	infinity	21' 1"	infinity	14' 11"	infinity	10' 7"	infinity	7' 6"	infinity	5' 4"	infinity
60' 0"	34' 10"	215' 9"	29' 10"	infinity	24' 9"	infinity	19' 11"	infinity	15' 8"	infinity	12' 0"	infinity	9' 0"	infinity	6' 8"	infinity	4' 11"	infinity
40' 0"	27' 0"	77' 1"	23' 11"	122' 2"	20' 6"	759' 0"	17' 1"	infinity	13' 10"	infinity	10' 11"	infinity	8' 5"	infinity	6' 4"	infinity	4' 9"	infinity
30' 0"	22' 1"	46' 11"	19' 11"	60' 6"	17' 7"	103' 5"	15' 0"	infinity	12' 5"	infinity	10' 0"	infinity	7' 10"	infinity	6' 0"	infinity	4' 6"	infinity
25' 0"	19' 3"	35' 9"	17' 7"	43' 1"	15' 9"	61' 2"	13' 7"	151' 5"	11' 6"	infinity	9' 5"	infinity	7' 6"	infinity	5' 10"	infinity	4' 5"	infinity
20' 0"	16' 2"	26' 4"	15' 0"	30' 1"	13' 7"	37' 11"	12' 0"	60' 1"	10' 4"	352' 4"	8' 7"	infinity	6' 11"	infinity	5' 6"	infinity	4' 3"	infinity
17' 0"	14' 1"	21' 4"	13' 3"	23' 9"	12' 2"	28' 5"	10' 10"	39' 3"	9' 5"	85' 6"	8' 0"	infinity	6' 7"	infinity	5' 3"	infinity	4' 1"	infinity
15' 0"	12' 9"	18' 3"	12' 0"	20' 0"	11' 1"	23' 3"	10' 0"	30' 0"	8' 9"	51' 1"	7' 6"	4479' 0"	6' 3"	infinity	5' 0"	infinity	3' 11"	infinity
13' 0"	11' 3"	15' 5"	10' 8"	16' 7"	9' 11"	18' 9"	9' 1"	22' 11"	8' 1"	33' 6"	7' 0"	94' 10"	5' 10"	infinity	4' 9"	infinity	3' 10"	infinity
12' 0"	10' 6"	14' 0"	10' 0"	15' 0"	9' 4"	16' 9"	8' 7"	20' 0"	7' 8"	27' 6"	6' 8"	58' 10"	5' 8"	infinity	4' 8"	infinity	3' 8"	infinity
11' 0"	9' 9"	12' 8"	9' 4"	13' 6"	8' 9"	14' 10"	8' 1"	17' 4"	7' 3"	22' 9"	6' 4"	40' 7"	5' 5"	infinity	4' 6"	infinity	3' 7"	infinity
10' 0"	8' 11"	11' 4"	8' 7"	12' 0"	8' 1"	13' 1"	7' 6"	15' 0"	6' 10"	18' 10"	6' 0"	29' 7"	5' 2"	152' 1"	4' 4"	infinity	3' 6"	infinity
9' 6"	8' 6"	10' 9"	8' 2"	11' 3"	7' 9"	12' 3"	7' 3"	13' 10"	6' 7"	17' 2"	5' 10"	25' 7"	5' 0"	84' 2"	4' 3"	infinity	3' 5"	infinity
9' 0"	8' 2"	10' 1"	7' 10"	10' 7"	7' 5"	11' 5"	6' 11"	12' 10"	6' 4"	15' 7"	5' 8"	22' 3"	4' 11"	56' 3"	4' 1"	infinity	3' 4"	infinity
8' 6"	7' 9"	9' 5"	7' 5"	9' 11"	7' 1"	10' 7"	6' 8"	11' 10"	6' 1"	14' 2"	5' 5"	19' 5"	4' 9"	41' 0"	4' 0"	infinity	3' 4"	infinity
8' 0"	7' 4"	8' 10"	7' 1"	9' 3"	6' 9"	9' 10"	6' 4"	10' 11"	5' 10"	12' 9"	5' 3"	17' 0"	4' 7"	31' 5"	3' 11"	infinity	3' 3"	infinity
7' 6"	6' 11"	8' 3"	6' 8"	8' 7"	6' 5"	9' 1"	6' 0"	10' 0"	5' 7"	11' 7"	5' 0"	14' 10"	4' 5"	24' 10"	3' 9"	520' 7"	3' 2"	infinity
7' 0"	6' 6"	7' 8"	6' 3"	7' 11"	6' 0"	8' 4"	5' 8"	9' 1"	5' 3"	10' 5"	4' 9"	13' 0"	4' 3"	20' 1"	3' 8"	86' 6"	3' 1"	infinity
6' 6"	6' 0"	7' 1"	5' 10"	7' 3"	5' 8"	7' 8"	5' 4"	8' 3"	5' 0"	9' 4"	4' 7"	11' 4"	4' 1"	16' 5"	3' 6"	44' 1"	2' 11"	infinity
6' 0"	5' 7"	6' 6"	5' 5"	6' 8"	5' 3"	7' 0"	5' 0"	7' 6"	4' 8"	8' 4"	4' 4"	9' 11"	3' 10"	13' 7"	3' 4"	28' 0"	2' 10"	infinity
5' 6"	5' 2"	5' 10 1/2"	5' 1/2"	6' 1/2"	4' 10 1/2"	6' 3 1/2"	4' 8"	6' 8 1/2"	4' 4 1/2"	7' 5"	4' 1/2"	8' 7"	3' 7 1/2"	11' 3"	3' 2 1/2"	19' 7"	2' 9"	infinity
5' 0"	4' 8 1/2"	5' 4"	4' 7 1/2"	5' 5 1/2"	4' 5 1/2"	5' 8"	4' 3 1/2"	6' 0"	4' 1/2"	6' 6"	3' 9"	7' 5"	3' 5"	9' 4"	3' 1/2"	14' 5"	2' 7"	63' 6"
4' 9"	4' 6"	5' 1/2"	4' 5"	5' 2"	4' 3 1/2"	5' 4"	4' 1 1/2"	5' 7 1/2"	3' 10 1/2"	6' 1"	3' 7 1/2"	6' 11"	3' 3 1/2"	8' 6"	2' 11"	12' 6"	2' 6 1/2"	37' 9 1/2"
4' 6"	4' 3 1/2"	4' 9"	4' 2 1/2"	4' 10 1/2"	4' 1"	5' 1/2"	3' 11"	5' 3 1/2"	3' 8 1/2"	5' 8"	3' 5 1/2"	6' 5"	3' 2"	7' 8"	2' 10"	10' 11"	2' 5 1/2"	26' 1"
4' 3"	4' 1/2"	4' 5 1/2"	3' 11 1/2"	4' 7"	3' 10 1/2"	4' 8 1/2"	3' 9"	4' 11 1/2"	3' 6 1/2"	5' 3 1/2"	3' 4"	5' 11"	3' 1/2"	7' 0"	2' 9"	9' 6"	2' 4 1/2"	19' 4"
4' 0"	3' 10"	4' 2 1/2"	3' 9"	4' 3 1/2"	3' 8"	4' 5"	3' 6 1/2"	4' 7"	3' 4 1/2"	4' 11"	3' 2"	5' 5"	2' 11"	6' 4"	2' 7 1/2"	8' 4"	2' 3 1/2"	15' 0"
3' 9"	3' 7"	3' 11"	3' 6 1/2"	4' 0"	3' 5 1/2"	4' 1 1/2"	3' 4"	4' 3 1/2"	3' 2 1/2"	4' 6 1/2"	3' 0"	5' 0"	2' 9 1/2"	5' 9"	2' 6 1/2"	7' 4"	2' 2 1/2"	11' 11 1/2"
3' 6"	3' 4 1/2"	3' 8"	3' 3 1/2"	3' 8 1/2"	3' 3"	3' 9 1/2"	3' 1 1/2"	3' 11 1/2"	3' 0"	4' 2"	2' 10"	4' 6 1/2"	2' 8"	5' 2"	2' 5"	6' 5"	2' 1 1/2"	9' 8 1/2"
3' 3"	3' 1 1/2"	3' 4 1/2"	3' 1"	3' 5"	3' 1/2"	3' 6"	2' 11 1/2"	3' 7 1/2"	2' 10"	3' 10"	2' 8"	4' 1 1/2"	2' 6"	4' 8"	2' 3 1/2"	5' 7"	2' 1/2"	7' 11 1/2"
3' 0"	2' 11"	3' 1 1/2"	2' 10 1/2"	3' 2"	2' 9 1/2"	3' 2 1/2"	2' 9"	3' 4"	2' 7 1/2"	3' 5 1/2"	2' 6"	3' 8 1/2"	2' 4 1/2"	4' 2"	2' 2"	4' 11"	1' 11 1/2"	6' 7"
2' 9"	2' 8"	2' 10"	2' 7 1/2"	2' 10 1/2"	2' 7"	2' 11"	2' 6 1/2"	3' 0"	2' 5 1/2"	3' 1 1/2"	2' 4"	3' 4"	2' 2 1/2"	3' 8"	2' 1/2"	4' 3"	1' 10"	5' 6"
2' 6"	2' 5"	2' 7"	2' 5"	2' 7 1/2"	2' 4 1/2"	2' 8"	2' 4"	2' 8 1/2"	2' 3"	2' 10"	2' 2"	2' 11 1/2"	2' 1/2"	3' 3"	1' 10 1/2"	3' 8"	1' 8 1/2"	4' 6 1/2"
2' 3"	2' 2 1/2"	2' 3 1/2"	2' 2"	2' 4"	2' 1 1/2"	2' 4 1/2"	2' 1"	2' 5"	2' 1/2"	2' 6"	1' 11 1/2"	2' 7 1/2"	1' 10 1/2"	2' 10"	1' 9"	3' 2"	1' 7"	3' 9 1/2"
2' 0"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1"	1' 11"	2' 1"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2 1/2"	1' 9 1/2"	2' 3 1/2"	1' 8 1/2"	2' 5 1/2"	1' 7"	2' 8"	1' 5 1/2"	3' 1 1/2"
1' 9"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8"	1' 10"	1' 8"	1' 10"	1' 7 1/2"	1' 11"	1' 7"	1' 11 1/2"	1' 6"	2' 1"	1' 5"	2' 3"	1' 4"	2' 6 1/2"
1' 6"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5"	1' 7"	1' 5"	1' 7 1/2"	1' 4 1/2"	1' 8"	1' 4"	1' 8 1/2"	1' 3"	1' 10"	1' 2"	2' 1/2"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 35 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	116' 1"	infinity	85' 6"	infinity	60' 5"	infinity	42' 10"	infinity	30' 4"	infinity	21' 6"	infinity	15' 3"	infinity	10' 9"	infinity	7' 7"	infinity
60' 0"	39' 7"	123' 11"	35' 3"	200' 3"	30' 2"	6576' 11"	25' 0"	infinity	20' 2"	infinity	15' 10"	infinity	12' 2"	infinity	9' 2"	infinity	6' 9"	infinity
40' 0"	29' 9"	60' 11"	27' 3"	75' 0"	24' 1"	117' 8"	20' 9"	574' 7"	17' 3"	infinity	14' 0"	infinity	11' 1"	infinity	8' 6"	infinity	6' 5"	infinity
30' 0"	23' 10"	40' 5"	22' 3"	46' 1"	20' 1"	59' 4"	17' 8"	99' 1"	15' 1"	2035' 2"	12' 6"	infinity	10' 1"	infinity	7' 11"	infinity	6' 1"	infinity
25' 0"	20' 7"	31' 10"	19' 4"	35' 3"	17' 9"	42' 6"	15' 10"	59' 7"	13' 9"	139' 3"	11' 7"	infinity	9' 6"	infinity	7' 7"	infinity	5' 10"	infinity
20' 0"	17' 1"	24' 2"	16' 3"	26' 1"	15' 1"	29' 10"	13' 8"	37' 4"	12' 1"	58' 1"	10' 5"	272' 0"	8' 8"	infinity	7' 0"	infinity	5' 6"	infinity
17' 0"	14' 10"	19' 11"	14' 2"	21' 2"	13' 3"	23' 7"	12' 2"	28' 1"	10' 11"	38' 4"	9' 6"	79' 8"	8' 1"	infinity	6' 7"	infinity	5' 3"	infinity
15' 0"	13' 4"	17' 2"	12' 9"	18' 2"	12' 0"	19' 11"	11' 2"	23' 0"	10' 1"	29' 5"	8' 10"	48' 11"	7' 7"	704' 1"	6' 4"	infinity	5' 1"	infinity
13' 0"	11' 8"	14' 7"	11' 4"	15' 4"	10' 9"	16' 6"	10' 0"	18' 7"	9' 1"	22' 7"	8' 1"	32' 6"	7' 0"	85' 1"	5' 11"	infinity	4' 10"	infinity
12' 0"	10' 11"	13' 4"	10' 6"	13' 11"	10' 0"	14' 11"	9' 5"	16' 7"	8' 7"	19' 9"	7' 9"	26' 11"	6' 9"	54' 11"	5' 8"	infinity	4' 8"	infinity
11' 0"	10' 1"	12' 2"	9' 9"	12' 7"	9' 4"	13' 5"	8' 9"	14' 9"	8' 1"	17' 2"	7' 4"	22' 4"	6' 5"	38' 8"	5' 6"	infinity	4' 6"	infinity
10' 0"	9' 3"	10' 11"	9' 0"	11' 4"	8' 7"	11' 11"	8' 2"	13' 0"	7' 7"	14' 10"	6' 10"	18' 6"	6' 1"	28' 7"	5' 3"	122' 11"	4' 4"	infinity
9' 6"	8' 9"	10' 4"	8' 7"	10' 8"	8' 3"	11' 3"	7' 10"	12' 2"	7' 3"	13' 9"	6' 7"	16' 11"	5' 10"	24' 10"	5' 1"	74' 4"	4' 3"	infinity
9' 0"	8' 4"	9' 9"	8' 2"	10' 1"	7' 10"	10' 7"	7' 5"	11' 4"	7' 0"	12' 9"	6' 4"	15' 4"	5' 8"	21' 8"	4' 11"	51' 8"	4' 2"	infinity
8' 6"	7' 11"	9' 2"	7' 9"	9' 5"	7' 6"	9' 10"	7' 1"	10' 7"	6' 8"	11' 9"	6' 1"	13' 11"	5' 6"	18' 11"	4' 9"	38' 6"	4' 1"	infinity
8' 0"	7' 6"	8' 7"	7' 4"	8' 10"	7' 1"	9' 2"	6' 9"	9' 10"	6' 4"	10' 10"	5' 10"	12' 8"	5' 3"	16' 7"	4' 7"	29' 11"	3' 11"	infinity
7' 6"	7' 1"	8' 0"	6' 11"	8' 3"	6' 8"	8' 7"	6' 5"	9' 1"	6' 0"	9' 11"	5' 7"	11' 5"	5' 1"	14' 7"	4' 5"	23' 11"	3' 10"	244' 4"
7' 0"	6' 7"	7' 5"	6' 6"	7' 7"	6' 3"	7' 11"	6' 0"	8' 4"	5' 8"	9' 1"	5' 4"	10' 4"	4' 10"	12' 9"	4' 3"	19' 5"	3' 8"	72' 8"
6' 6"	6' 2"	6' 11"	6' 1"	7' 0"	5' 11"	7' 3"	5' 8"	7' 8"	5' 4"	8' 3"	5' 0"	9' 3"	4' 7"	11' 2"	4' 1"	16' 0"	3' 6"	40' 2"
6' 0"	5' 9"	6' 4"	5' 7"	6' 5"	5' 6"	6' 8"	5' 3"	6' 11"	5' 0"	7' 5"	4' 9"	8' 3"	4' 4"	9' 9"	3' 11"	13' 3"	3' 5"	26' 4"
5' 6"	5' 3"	5' 9"	5' 2"	5' 10 1/2"	5' 1/2"	6' 1/2"	4' 10 1/2"	6' 3 1/2"	4' 8"	6' 8"	4' 5"	7' 4"	4' 1/2"	8' 6"	3' 8"	11' 0"	3' 2 1/2"	18' 9"
5' 0"	4' 9 1/2"	5' 2 1/2"	4' 9"	5' 3 1/2"	4' 7 1/2"	5' 5 1/2"	4' 6"	5' 7 1/2"	4' 3 1/2"	5' 11 1/2"	4' 1"	6' 6"	3' 9 1/2"	7' 4"	3' 5 1/2"	9' 2"	3' 1/2"	13' 11"
4' 9"	4' 7"	4' 11 1/2"	4' 6"	5' 1/2"	4' 5"	5' 1 1/2"	4' 3 1/2"	5' 4"	4' 1 1/2"	5' 7 1/2"	3' 11"	6' 1"	3' 7 1/2"	6' 10"	3' 4"	8' 4"	2' 11 1/2"	12' 1 1/2"
4' 6"	4' 4"	4' 8"	4' 3 1/2"	4' 9"	4' 2 1/2"	4' 10"	4' 1"	5' 0"	3' 11"	5' 3"	3' 9"	5' 8"	3' 6"	6' 4"	3' 2 1/2"	7' 7"	2' 10 1/2"	10' 7"
4' 3"	4' 1"	4' 5"	4' 1/2"	4' 5 1/2"	3' 11 1/2"	4' 6 1/2"	3' 10 1/2"	4' 8 1/2"	3' 9"	4' 11"	3' 7"	5' 3"	3' 4"	5' 10"	3' 1"	6' 11"	2' 9"	9' 3 1/2"
4' 0"	3' 10 1/2"	4' 1 1/2"	3' 10"	4' 2 1/2"	3' 9"	4' 3 1/2"	3' 8"	4' 5"	3' 6 1/2"	4' 7"	3' 4 1/2"	4' 11"	3' 2"	5' 4"	2' 11 1/2"	6' 3"	2' 8"	8' 2"
3' 9"	3' 7 1/2"	3' 10 1/2"	3' 7"	3' 11"	3' 6 1/2"	4' 0"	3' 5 1/2"	4' 1"	3' 4"	4' 3"	3' 2 1/2"	4' 6"	3' 1/2"	4' 11"	2' 9 1/2"	5' 8"	2' 6 1/2"	7' 2"
3' 6"	3' 5"	3' 7 1/2"	3' 4 1/2"	3' 7 1/2"	3' 4"	3' 8 1/2"	3' 3"	3' 9 1/2"	3' 2"	3' 11 1/2"	3' 1/2"	4' 2"	2' 10 1/2"	4' 6"	2' 8"	5' 1"	2' 5"	6' 3 1/2"
3' 3"	3' 2"	3' 4"	3' 1 1/2"	3' 4 1/2"	3' 1"	3' 5"	3' 1/2"	3' 6"	2' 11 1/2"	3' 7 1/2"	2' 10"	3' 9 1/2"	2' 8 1/2"	4' 1"	2' 6"	4' 7"	2' 3 1/2"	5' 6 1/2"
3' 0"	2' 11"	3' 1"	2' 11"	3' 1 1/2"	2' 10 1/2"	3' 2"	2' 9 1/2"	3' 2 1/2"	2' 9"	3' 4"	2' 7 1/2"	3' 5 1/2"	2' 6 1/2"	3' 8"	2' 4 1/2"	4' 1"	2' 2"	4' 10"
2' 9"	2' 8 1/2"	2' 10"	2' 8"	2' 10"	2' 7 1/2"	2' 10 1/2"	2' 7"	2' 11"	2' 6 1/2"	3' 0"	2' 5 1/2"	3' 1 1/2"	2' 4"	3' 4"	2' 2 1/2"	3' 8"	2' 1/2"	4' 2 1/2"
2' 6"	2' 5 1/2"	2' 6 1/2"	2' 5"	2' 7"	2' 5"	2' 7"	2' 4 1/2"	2' 8"	2' 4"	2' 8 1/2"	2' 3"	2' 10"	2' 2"	2' 11 1/2"	2' 1/2"	3' 3"	1' 11"	3' 7 1/2"
2' 3"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2"	2' 4"	2' 1 1/2"	2' 4 1/2"	2' 1"	2' 5"	2' 1/2"	2' 6"	1' 11 1/2"	2' 7 1/2"	1' 10 1/2"	2' 10"	1' 9"	3' 1 1/2"
2' 0"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1"	1' 11"	2' 1"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2 1/2"	1' 9 1/2"	2' 3 1/2"	1' 8 1/2"	2' 5"	1' 7"	2' 8"
1' 9"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8"	1' 10"	1' 8"	1' 10"	1' 7 1/2"	1' 10 1/2"	1' 7"	1' 11 1/2"	1' 6"	2' 1"	1' 5 1/2"	2' 2 1/2"
1' 6"	1' 6"	1' 6"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5"	1' 7"	1' 5"	1' 7"	1' 4 1/2"	1' 8"	1' 4"	1' 8 1/2"	1' 3"	1' 10"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 40 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	151' 7"	infinity	111' 8"	infinity	78' 8"	infinity	55' 1"	infinity	39' 4"	infinity	27' 6"	infinity	20' 0"	infinity	13' 9"	infinity	10' 0"	infinity
60' 0"	43' 0"	99' 2"	39' 1"	129' 4"	34' 1"	251' 4"	28' 9"	infinity	23' 9"	infinity	18' 11"	infinity	15' 0"	infinity	11' 3"	infinity	8' 7"	infinity
40' 0"	31' 8"	54' 3"	29' 6"	62' 2"	26' 7"	81' 2"	23' 3"	144' 8"	19' 10"	infinity	16' 4"	infinity	13' 4"	infinity	10' 3"	infinity	8' 0"	infinity
30' 0"	25' 1"	37' 4"	23' 8"	40' 11"	21' 9"	48' 4"	19' 5"	65' 6"	17' 1"	124' 10"	14' 5"	infinity	12' 0"	infinity	9' 6"	infinity	7' 6"	infinity
25' 0"	21' 6"	29' 11"	20' 5"	32' 2"	19' 0"	36' 7"	17' 3"	45' 7"	15' 4"	68' 0"	13' 2"	259' 7"	11' 2"	infinity	8' 11"	infinity	7' 2"	infinity
20' 0"	17' 8"	23' 0"	17' 0"	24' 4"	16' 0"	26' 9"	14' 8"	31' 3"	13' 3"	40' 5"	11' 7"	71' 11"	10' 0"	2708' 8"	8' 2"	infinity	6' 8"	infinity
17' 0"	15' 4"	19' 2"	14' 9"	20' 0"	14' 0"	21' 8"	13' 0"	24' 6"	11' 11"	29' 9"	10' 6"	43' 11"	9' 3"	108' 1"	7' 8"	infinity	6' 4"	infinity
15' 0"	13' 8"	16' 8"	13' 3"	17' 4"	12' 7"	18' 6"	11' 10"	20' 7"	10' 11"	24' 1"	9' 9"	32' 8"	8' 7"	58' 4"	7' 3"	infinity	6' 0"	infinity
13' 0"	12' 0"	14' 2"	11' 8"	14' 8"	11' 2"	15' 7"	10' 6"	17' 0"	9' 10"	19' 4"	8' 10"	24' 5"	7' 11"	36' 5"	6' 9"	200' 9"	5' 8"	infinity
12' 0"	11' 2"	13' 0"	10' 10"	13' 5"	10' 5"	14' 2"	9' 10"	15' 4"	9' 3"	17' 2"	8' 5"	21' 1"	7' 6"	29' 6"	6' 5"	87' 4"	5' 6"	infinity
11' 0"	10' 3"	11' 10"	10' 0"	12' 2"	9' 8"	12' 9"	9' 2"	13' 8"	8' 7"	15' 2"	7' 11"	18' 2"	7' 2"	24' 1"	6' 2"	52' 4"	5' 3"	infinity
10' 0"	9' 5"	10' 8"	9' 2"	11' 0"	8' 11"	11' 5"	8' 6"	12' 2"	8' 0"	13' 4"	7' 4"	15' 7"	6' 8"	19' 9"	5' 10"	35' 4"	5' 0"	717' 4"
9' 6"	8' 11"	10' 2"	8' 9"	10' 4"	8' 6"	10' 9"	8' 1"	11' 5"	7' 8"	12' 6"	7' 1"	14' 5"	6' 6"	17' 10"	5' 8"	29' 9"	4' 11"	148' 8"
9' 0"	8' 6"	9' 7"	8' 4"	9' 9"	8' 1"	10' 2"	7' 9"	10' 9"	7' 4"	11' 7"	6' 10"	13' 3"	6' 3"	16' 2"	5' 6"	25' 4"	4' 9"	79' 1"
8' 6"	8' 1"	9' 0"	7' 11"	9' 2"	7' 8"	9' 6"	7' 5"	10' 0"	7' 0"	10' 10"	6' 6"	12' 3"	6' 0"	14' 7"	5' 3"	21' 8"	4' 8"	51' 11"
8' 0"	7' 7"	8' 5"	7' 6"	8' 7"	7' 3"	8' 11"	7' 0"	9' 4"	6' 8"	10' 0"	6' 3"	11' 2"	5' 9"	13' 2"	5' 1"	18' 8"	4' 6"	37' 5"
7' 6"	7' 2"	7' 11"	7' 0"	8' 0"	6' 10"	8' 3"	6' 7"	8' 8"	6' 4"	9' 3"	5' 11"	10' 3"	5' 6"	11' 10"	4' 11"	16' 2"	4' 4"	28' 5"
7' 0"	6' 8"	7' 4"	6' 7"	7' 6"	6' 5"	7' 8"	6' 3"	8' 0"	6' 0"	8' 6"	5' 7"	9' 4"	5' 3"	10' 8"	4' 8"	14' 0"	4' 2"	22' 4"
6' 6"	6' 3"	6' 9"	6' 2"	6' 11"	6' 0"	7' 1"	5' 10"	7' 4"	5' 7"	7' 9"	5' 3"	8' 5"	4' 11"	9' 6"	4' 5"	12' 1"	4' 0"	17' 10"
6' 0"	5' 9"	6' 3"	5' 8"	6' 4"	5' 7"	6' 6"	5' 5"	6' 9"	5' 3"	7' 1"	4' 11"	7' 8"	4' 8"	8' 6"	4' 2"	10' 6"	3' 9"	14' 6"
5' 6"	5' 3 1/2"	5' 8 1/2"	5' 3"	5' 9 1/2"	5' 2"	5' 11"	5' 0"	6' 1"	4' 10"	6' 4"	4' 7"	6' 10"	4' 4"	7' 6"	3' 11 1/2"	9' 0"	3' 7"	11' 10 1/2"
5' 0"	4' 10"	5' 2"	4' 9 1/2"	5' 2 1/2"	4' 8 1/2"	5' 4"	4' 7"	5' 6"	4' 5 1/2"	5' 8 1/2"	4' 3"	6' 1"	4' 1/2"	6' 7"	3' 8 1/2"	7' 9"	3' 4 1/2"	9' 9"
4' 9"	4' 7 1/2"	4' 11"	4' 6 1/2"	4' 11 1/2"	4' 6"	5' 1/2"	4' 4 1/2"	5' 2"	4' 3"	5' 4 1/2"	4' 1"	5' 8"	3' 10 1/2"	6' 2"	3' 6 1/2"	7' 2"	3' 3"	8' 10"
4' 6"	4' 4 1/2"	4' 7 1/2"	4' 4"	4' 8"	4' 3"	4' 9"	4' 2"	4' 10 1/2"	4' 1/2"	5' 1/2"	3' 10 1/2"	5' 4"	3' 8 1/2"	5' 9"	3' 5"	6' 7"	3' 1 1/2"	8' 0"
4' 3"	4' 1 1/2"	4' 4 1/2"	4' 1"	4' 5"	4' 1/2"	4' 6"	3' 11 1/2"	4' 7"	3' 10"	4' 9"	3' 8 1/2"	5' 0"	3' 6 1/2"	5' 4"	3' 3 1/2"	6' 1"	3' 0"	7' 2 1/2"
4' 0"	3' 11"	4' 1 1/2"	3' 10 1/2"	4' 1 1/2"	3' 9 1/2"	4' 2 1/2"	3' 9"	4' 3 1/2"	3' 7 1/2"	4' 5"	3' 6"	4' 8"	3' 4"	5' 0"	3' 1 1/2"	5' 7"	2' 10 1/2"	6' 6"
3' 9"	3' 8"	3' 10"	3' 7 1/2"	3' 10 1/2"	3' 7"	3' 11"	3' 6"	4' 0"	3' 5"	4' 1 1/2"	3' 4"	4' 4"	3' 2"	4' 7"	2' 11 1/2"	5' 1"	2' 9"	5' 10 1/2"
3' 6"	3' 5"	3' 7"	3' 5"	3' 7 1/2"	3' 4 1/2"	3' 8"	3' 3 1/2"	3' 8 1/2"	3' 2 1/2"	3' 10"	3' 1 1/2"	4' 0"	3' 0"	4' 2"	2' 9 1/2"	4' 8"	2' 7 1/2"	5' 3 1/2"
3' 3"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1 1/2"	3' 4 1/2"	3' 1"	3' 5 1/2"	3' 0"	3' 6 1/2"	2' 11"	3' 8"	2' 9 1/2"	3' 10"	2' 8"	4' 2"	2' 5 1/2"	4' 8 1/2"
3' 0"	2' 11 1/2"	3' 1/2"	2' 11"	3' 1"	2' 10 1/2"	3' 1 1/2"	2' 10"	3' 2"	2' 9 1/2"	3' 3"	2' 8 1/2"	3' 4"	2' 7 1/2"	3' 6"	2' 6"	3' 9"	2' 4"	4' 2 1/2"
2' 9"	2' 8 1/2"	2' 9 1/2"	2' 8"	2' 10"	2' 8"	2' 10"	2' 7 1/2"	2' 10 1/2"	2' 7"	2' 11 1/2"	2' 6"	3' 1/2"	2' 5"	3' 2"	2' 3 1/2"	3' 5"	2' 2"	3' 8 1/2"
2' 6"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5"	2' 7"	2' 5"	2' 7 1/2"	2' 4 1/2"	2' 8"	2' 3 1/2"	2' 9"	2' 3"	2' 10"	2' 1 1/2"	3' 0"	2' 1/2"	3' 3 1/2"
2' 3"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2"	2' 4"	2' 1 1/2"	2' 4 1/2"	2' 1"	2' 5 1/2"	2' 1/2"	2' 6"	1' 11 1/2"	2' 8"	1' 10 1/2"	2' 10 1/2"
2' 0"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11"	2' 1"	1' 11"	2' 1"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2 1/2"	1' 9"	2' 4"	1' 8"	2' 5 1/2"
1' 9"	1' 9"	1' 9"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8"	1' 10"	1' 8"	1' 10 1/2"	1' 7 1/2"	1' 11"	1' 7"	2' 0"	1' 6"	2' 1"
1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5"	1' 7"	1' 5"	1' 7 1/2"	1' 4 1/2"	1' 8"	1' 4"	1' 9"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 50 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	242' 2"	infinity	174' 6"	infinity	123' 10"	infinity	87' 6"	infinity	62' 0"	infinity	43' 11"	infinity	31' 2"	infinity	22' 1"	infinity	15' 7"	infinity
60' 0"	48' 1"	79' 8"	44' 8"	91' 4"	40' 5"	116' 1"	35' 8"	189' 10"	30' 6"	1704' 1"	25' 5"	infinity	20' 6"	infinity	16' 2"	infinity	12' 5"	infinity
40' 0"	34' 4"	47' 11"	32' 7"	51' 10"	30' 3"	59' 0"	27' 6"	73' 5"	24' 4"	111' 10"	21' 0"	430' 2"	17' 7"	infinity	14' 3"	infinity	11' 3"	infinity
30' 0"	26' 9"	34' 3"	25' 7"	36' 2"	24' 2"	39' 6"	22' 4"	45' 6"	20' 3"	57' 10"	17' 10"	93' 7"	15' 4"	723' 0"	12' 9"	infinity	10' 4"	infinity
25' 0"	22' 8"	27' 10"	21' 11"	29' 2"	20' 10"	31' 3"	19' 6"	34' 11"	17' 10"	41' 8"	16' 0"	57' 6"	13' 11"	123' 8"	11' 9"	infinity	9' 8"	infinity
20' 0"	18' 6"	21' 9"	18' 0"	22' 7"	17' 3"	23' 10"	16' 4"	25' 10"	15' 2"	29' 5"	13' 9"	36' 6"	12' 3"	55' 2"	10' 6"	199' 4"	8' 10"	infinity
17' 0"	15' 11"	18' 3"	15' 6"	18' 10"	15' 0"	19' 8"	14' 3"	21' 1"	13' 4"	23' 4"	12' 3"	27' 7"	11' 0"	37' 0"	9' 8"	71' 11"	8' 2"	infinity
15' 0"	14' 2"	16' 0"	13' 10"	16' 5"	13' 5"	17' 1"	12' 10"	18' 1"	12' 1"	19' 9"	11' 3"	22' 8"	10' 2"	28' 8"	9' 0"	45' 10"	7' 8"	297' 9"
13' 0"	12' 4"	13' 9"	12' 1"	14' 0"	11' 9"	14' 6"	11' 4"	15' 3"	10' 9"	16' 5"	10' 1"	18' 4"	9' 2"	22' 1"	8' 3"	31' 1"	7' 2"	72' 10"
12' 0"	11' 5"	12' 7"	11' 3"	12' 10"	10' 11"	13' 3"	10' 7"	13' 11"	10' 1"	14' 10"	9' 5"	16' 5"	8' 8"	19' 4"	7' 10"	25' 11"	6' 10"	49' 6"
11' 0"	10' 6"	11' 6"	10' 4"	11' 9"	10' 1"	12' 1"	9' 9"	12' 7"	9' 4"	13' 4"	8' 10"	14' 7"	8' 2"	16' 10"	7' 5"	21' 8"	6' 6"	35' 11"
10' 0"	9' 7"	10' 5"	9' 6"	10' 7"	9' 3"	10' 10"	9' 0"	11' 3"	8' 8"	11' 11"	8' 2"	12' 11"	7' 7"	14' 7"	6' 11"	18' 1"	6' 2"	27' 0"
9' 6"	9' 2"	9' 11"	9' 0"	10' 0"	8' 10"	10' 3"	8' 7"	10' 8"	8' 3"	11' 2"	7' 10"	12' 1"	7' 4"	13' 7"	6' 8"	16' 6"	5' 11"	23' 7"
9' 0"	8' 8"	9' 4"	8' 7"	9' 6"	8' 5"	9' 8"	8' 2"	10' 0"	7' 11"	10' 6"	7' 6"	11' 3"	7' 0"	12' 7"	6' 5"	15' 0"	5' 9"	20' 9"
8' 6"	8' 3"	8' 10"	8' 1"	8' 11"	8' 0"	9' 1"	7' 9"	9' 5"	7' 6"	9' 10"	7' 2"	10' 6"	6' 8"	11' 7"	6' 2"	13' 8"	5' 7"	18' 3"
8' 0"	7' 9"	8' 3"	7' 8"	8' 5"	7' 6"	8' 6"	7' 4"	8' 9"	7' 1"	9' 2"	6' 9"	9' 9"	6' 5"	10' 8"	5' 11"	12' 5"	5' 4"	16' 1"
7' 6"	7' 3"	7' 9"	7' 2"	7' 10"	7' 1"	8' 0"	6' 11"	8' 2"	6' 8"	8' 6"	6' 5"	9' 0"	6' 1"	9' 10"	5' 8"	11' 3"	5' 1"	14' 2"
7' 0"	6' 10"	7' 2"	6' 9"	7' 3"	6' 8"	7' 5"	6' 6"	7' 7"	6' 4"	7' 10"	6' 1"	8' 3"	5' 9"	9' 0"	5' 4"	10' 2"	4' 10"	12' 5"
6' 6"	6' 4"	6' 8"	6' 3"	6' 9"	6' 2"	6' 10"	6' 1"	7' 0"	5' 11"	7' 3"	5' 8"	7' 7"	5' 5"	8' 2"	5' 1"	9' 1"	4' 7"	10' 11"
6' 0"	5' 10"	6' 2"	5' 10"	6' 2"	5' 9"	6' 4"	5' 7"	6' 5"	5' 6"	6' 7"	5' 4"	6' 11"	5' 1"	7' 5"	4' 9"	8' 2"	4' 4"	9' 7"
5' 6"	5' 4 1/2"	5' 7 1/2"	5' 4"	5' 8"	5' 3 1/2"	5' 9"	5' 2"	5' 10 1/2"	5' 1"	6' 0"	4' 11"	6' 3"	4' 8 1/2"	6' 8"	4' 5"	7' 3"	4' 1"	8' 4"
5' 0"	4' 11"	5' 1"	4' 10 1/2"	5' 1 1/2"	4' 9 1/2"	5' 2 1/2"	4' 9"	5' 3 1/2"	4' 7 1/2"	5' 5"	4' 6"	5' 7"	4' 4"	5' 11"	4' 1"	6' 5"	3' 10"	7' 3"
4' 9"	4' 8"	4' 10"	4' 7 1/2"	4' 10 1/2"	4' 7"	4' 11"	4' 6"	5' 0"	4' 5"	5' 1 1/2"	4' 3 1/2"	5' 4"	4' 1 1/2"	5' 7"	3' 11"	6' 0"	3' 8"	6' 8 1/2"
4' 6"	4' 5"	4' 7"	4' 4 1/2"	4' 7 1/2"	4' 4"	4' 8"	4' 3 1/2"	4' 9"	4' 2 1/2"	4' 10"	4' 1"	5' 0"	3' 11 1/2"	5' 3"	3' 9"	5' 7"	3' 6 1/2"	6' 2 1/2"
4' 3"	4' 2"	4' 4"	4' 2"	4' 4"	4' 1 1/2"	4' 4 1/2"	4' 1/2"	4' 5 1/2"	4' 0"	4' 6 1/2"	3' 10 1/2"	4' 8"	3' 9"	4' 11"	3' 7"	5' 3"	3' 4 1/2"	5' 9"
4' 0"	3' 11 1/2"	4' 1"	3' 11"	4' 1"	3' 10 1/2"	4' 1 1/2"	3' 10"	4' 2"	3' 9"	4' 3"	3' 8"	4' 5"	3' 6 1/2"	4' 7"	3' 5"	4' 10"	3' 2 1/2"	5' 3 1/2"
3' 9"	3' 8 1/2"	3' 9 1/2"	3' 8"	3' 10"	3' 7 1/2"	3' 10 1/2"	3' 7"	3' 11"	3' 6 1/2"	4' 0"	3' 5 1/2"	4' 1"	3' 4 1/2"	4' 3"	3' 2 1/2"	4' 6"	3' 1/2"	4' 10 1/2"
3' 6"	3' 5 1/2"	3' 6 1/2"	3' 5"	3' 7"	3' 5"	3' 7"	3' 4 1/2"	3' 7 1/2"	3' 4"	3' 8 1/2"	3' 3"	3' 9 1/2"	3' 2"	3' 11"	3' 1/2"	4' 1"	2' 10 1/2"	4' 5 1/2"
3' 3"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2"	3' 4"	3' 1 1/2"	3' 4 1/2"	3' 1"	3' 5"	3' 1/2"	3' 6"	2' 11 1/2"	3' 7"	2' 10"	3' 9"	2' 8 1/2"	4' 1/2"
3' 0"	2' 11 1/2"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11"	3' 1"	2' 11"	3' 1"	2' 10 1/2"	3' 1 1/2"	2' 10"	3' 2 1/2"	2' 9"	3' 4"	2' 8"	3' 5"	2' 6 1/2"	3' 8"
2' 9"	2' 8 1/2"	2' 9 1/2"	2' 8 1/2"	2' 9 1/2"	2' 8 1/2"	2' 9 1/2"	2' 8"	2' 10"	2' 7 1/2"	2' 10 1/2"	2' 7"	2' 11"	2' 6 1/2"	3' 0"	2' 5 1/2"	3' 1"	2' 4 1/2"	3' 3 1/2"
2' 6"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5"	2' 7"	2' 5"	2' 7"	2' 4 1/2"	2' 7 1/2"	2' 4"	2' 8 1/2"	2' 3"	2' 10"	2' 2"	2' 11 1/2"
2' 3"	2' 3"	2' 3"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2"	2' 4"	2' 2"	2' 4 1/2"	2' 1 1/2"	2' 5"	2' 1/2"	2' 6"	2' 0"	2' 7"
2' 0"	2' 0"	2' 0"	2' 0"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11"	2' 1"	1' 10 1/2"	2' 1 1/2"	1' 10"	2' 2"	1' 9 1/2"	2' 3"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 65 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	401' 9"	infinity	285' 1"	infinity	201' 7"	infinity	142' 11"	infinity	101' 0"	infinity	71' 5"	infinity	50' 7"	infinity	35' 9"	infinity	25' 4"	infinity
60' 0"	52' 3"	70' 6"	49' 7"	75' 11"	46' 3"	85' 3"	42' 4"	103' 2"	37' 8"	147' 1"	32' 8"	367' 6"	27' 6"	infinity	22' 6"	infinity	17' 10"	infinity
40' 0"	36' 5"	44' 5"	35' 1"	46' 6"	33' 5"	49' 10"	31' 3"	55' 5"	28' 8"	66' 0"	25' 8"	90' 3"	22' 5"	187' 4"	18' 11"	infinity	15' 7"	infinity
30' 0"	27' 11"	32' 5"	27' 2"	33' 6"	26' 2"	35' 2"	24' 10"	37' 11"	23' 2"	42' 7"	21' 2"	51' 5"	18' 11"	72' 11"	16' 4"	179' 4"	13' 9"	infinity
25' 0"	23' 7"	26' 8"	23' 0"	27' 5"	22' 3"	28' 6"	21' 4"	30' 3"	20' 1"	33' 2"	18' 7"	38' 3"	16' 9"	49' 0"	14' 9"	81' 5"	12' 8"	1191' 8"
20' 0"	19' 1"	21' 0"	18' 8"	21' 6"	18' 3"	22' 2"	17' 7"	23' 3"	16' 9"	24' 10"	15' 8"	27' 8"	14' 5"	32' 10"	12' 11"	44' 9"	11' 3"	91' 7"
17' 0"	16' 4"	17' 9"	16' 1"	18' 1"	15' 8"	18' 7"	15' 3"	19' 3"	14' 7"	20' 5"	13' 9"	22' 3"	12' 9"	25' 5"	11' 7"	32' 0"	10' 3"	50' 5"
15' 0"	14' 6"	15' 7"	14' 3"	15' 10"	14' 0"	16' 2"	13' 7"	16' 9"	13' 1"	17' 7"	12' 5"	18' 11"	11' 7"	21' 2"	10' 7"	25' 7"	9' 6"	36' 1"
13' 0"	12' 7"	13' 5"	12' 5"	13' 7"	12' 3"	13' 11"	11' 11"	14' 3"	11' 6"	14' 11"	11' 0"	15' 10"	10' 5"	17' 5"	9' 7"	20' 3"	8' 8"	26' 3"
12' 0"	11' 8"	12' 4"	11' 6"	12' 6"	11' 4"	12' 9"	11' 1"	13' 1"	10' 9"	13' 7"	10' 4"	14' 4"	9' 9"	15' 8"	9' 0"	17' 11"	8' 2"	22' 5"
11' 0"	10' 9"	11' 4"	10' 7"	11' 5"	10' 5"	11' 7"	10' 3"	11' 11"	9' 11"	12' 4"	9' 7"	12' 11"	9' 1"	14' 0"	8' 5"	15' 9"	7' 9"	19' 2"
10' 0"	9' 9"	10' 3"	9' 8"	10' 4"	9' 6"	10' 6"	9' 4"	10' 9"	9' 1"	11' 1"	8' 10"	11' 7"	8' 5"	12' 5"	7' 10"	13' 9"	7' 3"	16' 4"
9' 6"	9' 3"	9' 2"	9' 2"	9' 10"	9' 1"	10' 0"	8' 11"	10' 2"	8' 8"	10' 6"	8' 5"	10' 11"	8' 0"	11' 8"	7' 7"	12' 10"	6' 11"	15' 0"
9' 0"	8' 10"	9' 2"	8' 9"	9' 3"	8' 7"	9' 5"	8' 6"	9' 7"	8' 3"	9' 10"	8' 0"	10' 3"	7' 8"	10' 11"	7' 3"	11' 11"	6' 8"	13' 9"
8' 6"	8' 4"	8' 8"	8' 3"	8' 9"	8' 2"	8' 10"	8' 0"	9' 0"	7' 10"	9' 3"	7' 7"	9' 7"	7' 4"	10' 2"	6' 11"	11' 1"	6' 5"	12' 8"
8' 0"	7' 10"	8' 2"	7' 9"	8' 3"	7' 8"	8' 4"	7' 7"	8' 6"	7' 5"	8' 8"	7' 3"	9' 0"	6' 11"	9' 5"	6' 7"	10' 3"	6' 1"	11' 7"
7' 6"	7' 4"	7' 8"	7' 4"	7' 8"	7' 3"	7' 9"	7' 2"	7' 11"	7' 0"	8' 1"	6' 10"	8' 4"	6' 7"	8' 9"	6' 3"	9' 5"	5' 10"	10' 6"
7' 0"	6' 11"	7' 1"	6' 10"	7' 2"	6' 9"	7' 3"	6' 8"	7' 4"	6' 7"	7' 6"	6' 5"	7' 9"	6' 2"	8' 1"	5' 11"	8' 8"	5' 6"	9' 7"
6' 6"	6' 5"	6' 7"	6' 4"	6' 8"	6' 4"	6' 9"	6' 3"	6' 10"	6' 1"	6' 11"	6' 0"	7' 2"	5' 9"	7' 5"	5' 6"	7' 11"	5' 2"	8' 8"
6' 0"	5' 11"	6' 1"	5' 11"	6' 1"	5' 10"	6' 2"	5' 9"	6' 3"	5' 8"	6' 4"	5' 7"	6' 6"	5' 5"	6' 9"	5' 2"	7' 2"	4' 11"	7' 9"
5' 6"	5' 5"	5' 7"	5' 5"	5' 7"	5' 4 1/2"	5' 8"	5' 3 1/2"	5' 8 1/2"	5' 2 1/2"	5' 10"	5' 1 1/2"	5' 11"	5' 0"	6' 2"	4' 9 1/2"	6' 5"	4' 6 1/2"	6' 11 1/2"
5' 0"	4' 11 1/2"	5' 1/2"	4' 11"	5' 1"	4' 10 1/2"	5' 1 1/2"	4' 10"	5' 2"	4' 9 1/2"	5' 3"	4' 8"	5' 4"	4' 7"	5' 6"	4' 5"	5' 9"	4' 2 1/2"	6' 2"
4' 9"	4' 8 1/2"	4' 9 1/2"	4' 8"	4' 10"	4' 7 1/2"	4' 10 1/2"	4' 7"	4' 11"	4' 6 1/2"	4' 11 1/2"	4' 5 1/2"	5' 1"	4' 4 1/2"	5' 3"	4' 2 1/2"	5' 5"	4' 1/2"	5' 9 1/2"
4' 6"	4' 5 1/2"	4' 6 1/2"	4' 5"	4' 7"	4' 5"	4' 7"	4' 4 1/2"	4' 7 1/2"	4' 4"	4' 8 1/2"	4' 3"	4' 9"	4' 2"	4' 11"	4' 0"	5' 1"	3' 10"	5' 5"
4' 3"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2"	4' 4"	4' 1 1/2"	4' 4 1/2"	4' 1"	4' 5"	4' 1/2"	4' 6"	3' 11"	4' 7"	3' 10"	4' 9"	3' 8"	5' 1/2"
4' 0"	3' 11 1/2"	4' 1/2"	3' 11 1/2"	4' 1/2"	3' 11"	4' 1"	3' 11"	4' 1 1/2"	3' 10 1/2"	4' 2"	3' 9 1/2"	4' 3"	3' 8 1/2"	4' 4"	3' 7 1/2"	4' 6"	3' 6"	4' 8 1/2"
3' 9"	3' 8 1/2"	3' 9 1/2"	3' 8 1/2"	3' 9 1/2"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7 1/2"	3' 10 1/2"	3' 7"	3' 11"	3' 6"	4' 0"	3' 5"	4' 2"	3' 3 1/2"	4' 4 1/2"
3' 6"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5"	3' 7"	3' 4 1/2"	3' 7 1/2"	3' 4"	3' 8"	3' 3 1/2"	3' 9"	3' 2 1/2"	3' 10"	3' 1"	4' 1/2"
3' 3"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1 1/2"	3' 4 1/2"	3' 1"	3' 5"	3' 0"	3' 7"	2' 11"	3' 8 1/2"
3' 0"	3' 0"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11"	3' 1"	2' 10 1/2"	3' 1 1/2"	2' 10"	3' 2"	2' 9 1/2"	3' 3"	2' 8 1/2"	3' 4 1/2"
2' 9"	2' 9"	2' 9"	2' 8 1/2"	2' 9 1/2"	2' 8 1/2"	2' 9 1/2"	2' 8 1/2"	2' 9 1/2"	2' 8"	2' 10"	2' 8"	2' 10"	2' 7 1/2"	2' 11"	2' 7"	3' 0"	2' 6"	3' 1/2"
2' 6"	2' 6"	2' 6"	2' 6"	2' 6"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5"	2' 7"	2' 4 1/2"	2' 7 1/2"	2' 4"	2' 8"	2' 3 1/2"	2' 9"
2' 3"	2' 3"	2' 3"	2' 3"	2' 3"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 3 1/2"	2' 2 1/2"	2' 4"	2' 2"	2' 4"	2' 1 1/2"	2' 5"	2' 1"	2' 5 1/2"
2' 0"	2' 0"	2' 0"	2' 0"	2' 0"	2' 0"	2' 0"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11 1/2"	2' 1/2"	1' 11"	2' 1"	1' 11"	2' 1"	1' 10 1/2"	2' 2"
1' 9"	1' 9"	1' 9"	1' 9"	1' 9"	1' 9"	1' 9"	1' 9"	1' 9"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8 1/2"	1' 9 1/2"	1' 8"	1' 10"	1' 8"	1' 10 1/2"
1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 6"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5 1/2"	1' 6 1/2"	1' 5"	1' 7"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 75 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	53' 9"	infinity	39' 5"	infinity	28' 1" 9"	infinity	19' 9" 6"	infinity	14' 1" 2"	infinity	9' 9" 9"	infinity	7' 0" 7"	infinity	4' 9" 1" 1"	infinity	3' 5" 4"	infinity
60' 0"	54' 0"	67' 7"	52' 2"	70' 7"	49' 6"	76' 2"	46' 2"	85' 8"	42' 2"	104' 1"	37' 6"	149' 8"	32' 6"	391' 5"	27' 4"	infinity	22' 3"	infinity
40' 0"	37' 3"	43' 3"	36' 4"	44' 5"	35' 1"	46' 7"	33' 4"	49' 11"	31' 3"	55' 8"	28' 7"	66' 6"	25' 7"	91' 7"	22' 3"	196' 7"	18' 10"	infinity
30' 0"	28' 5"	31' 9"	27' 11"	32' 5"	27' 2"	33' 7"	26' 1"	35' 3"	24' 9"	38' 0"	23' 1"	42' 9"	21' 1"	51' 10"	18' 10"	74' 3"	16' 3"	190' 4"
25' 0"	23' 11"	26' 3"	23' 6"	26' 8"	23' 0"	27' 5"	22' 3"	28' 6"	21' 3"	30' 4"	20' 0"	33' 3"	18' 6"	38' 6"	16' 9"	49' 7"	14' 8"	83' 7"
20' 0"	19' 3"	20' 9"	19' 1"	21' 1"	18' 8"	21' 6"	18' 2"	22' 2"	17' 7"	23' 3"	16' 8"	24' 11"	15' 8"	27' 9"	14' 4"	33' 1"	12' 10"	45' 5"
17' 0"	16' 6"	17' 7"	16' 4"	17' 9"	16' 1"	18' 1"	15' 8"	18' 7"	15' 2"	19' 3"	14' 7"	20' 5"	13' 9"	22' 4"	12' 9"	25' 7"	11' 6"	32' 4"
15' 0"	14' 7"	15' 5"	14' 6"	15' 7"	14' 3"	15' 10"	14' 0"	16' 2"	13' 7"	16' 9"	13' 1"	17' 7"	12' 5"	19' 0"	11' 7"	21' 4"	10' 7"	25' 9"
13' 0"	12' 8"	13' 4"	12' 7"	13' 5"	12' 5"	13' 7"	12' 3"	13' 11"	11' 11"	14' 3"	11' 6"	14' 11"	11' 0"	15' 10"	10' 4"	17' 6"	9' 7"	20' 4"
12' 0"	11' 9"	12' 3"	11' 8"	12' 4"	11' 6"	12' 6"	11' 4"	12' 9"	11' 1"	13' 1"	10' 9"	13' 7"	10' 3"	14' 5"	9' 9"	15' 8"	9' 0"	18' 0"
11' 0"	10' 9"	11' 3"	10' 9"	11' 4"	10' 7"	11' 5"	10' 5"	11' 8"	10' 3"	11' 11"	9' 11"	12' 4"	9' 7"	13' 0"	9' 1"	14' 0"	8' 5"	15' 10"
10' 0"	9' 10"	10' 2"	9' 9"	10' 3"	9' 8"	10' 4"	9' 6"	10' 6"	9' 4"	10' 9"	9' 1"	11' 1"	8' 9"	11' 7"	8' 4"	12' 5"	7' 10"	13' 10"
9' 6"	9' 4"	9' 8"	9' 3"	9' 9"	9' 2"	9' 10"	9' 1"	10' 0"	8' 11"	10' 2"	8' 8"	10' 6"	8' 5"	10' 11"	8' 0"	11' 8"	7' 6"	12' 10"
9' 0"	8' 10"	9' 2"	8' 10"	9' 2"	8' 9"	9' 3"	8' 7"	9' 5"	8' 6"	9' 7"	8' 3"	9' 10"	8' 0"	10' 3"	7' 8"	10' 11"	7' 3"	12' 0"
8' 6"	8' 4"	8' 8"	8' 4"	8' 8"	8' 3"	8' 9"	8' 2"	8' 10"	8' 0"	9' 0"	7' 10"	9' 3"	7' 7"	9' 8"	7' 4"	10' 2"	6' 11"	11' 1"
8' 0"	7' 11"	8' 1"	7' 10"	8' 2"	7' 9"	8' 3"	7' 8"	8' 4"	7' 7"	8' 6"	7' 5"	8' 8"	7' 2"	9' 0"	6' 11"	9' 6"	6' 7"	10' 3"
7' 6"	7' 5"	7' 7"	7' 4"	7' 8"	7' 4"	7' 8"	7' 3"	7' 9"	7' 2"	7' 11"	7' 0"	8' 1"	6' 10"	8' 4"	6' 7"	8' 9"	6' 3"	9' 5"
7' 0"	6' 11"	7' 1"	6' 11"	7' 1"	6' 10"	7' 2"	6' 9"	7' 3"	6' 8"	7' 4"	6' 7"	7' 6"	6' 5"	7' 9"	6' 2"	8' 1"	5' 11"	8' 8"
6' 6"	6' 5"	6' 7"	6' 5"	6' 7"	6' 4"	6' 8"	6' 4"	6' 9"	6' 3"	6' 10"	6' 1"	6' 11"	6' 0"	7' 2"	5' 9"	7' 5"	5' 6"	7' 11"
6' 0"	5' 11"	6' 1"	5' 11"	6' 1"	5' 11"	6' 2"	5' 10"	6' 2"	5' 9"	6' 3"	5' 8"	6' 4"	5' 7"	6' 6"	5' 5"	6' 9"	5' 2"	7' 2"
5' 6"	5' 5 1/2"	5' 6 1/2"	5' 5"	5' 7"	5' 5"	5' 7 1/2"	5' 4 1/2"	5' 8"	5' 3 1/2"	5' 9"	5' 2 1/2"	5' 10"	5' 1 1/2"	5' 11"	4' 11 1/2"	6' 2"	4' 9 1/2"	6' 5 1/2"
5' 0"	4' 11 1/2"	5' 1/2"	4' 11 1/2"	5' 1/2"	4' 11"	5' 1"	4' 10 1/2"	5' 1 1/2"	4' 10"	5' 2"	4' 9 1/2"	5' 3"	4' 8"	5' 4"	4' 7"	5' 6"	4' 5"	5' 9 1/2"
4' 9"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 8"	4' 10"	4' 7 1/2"	4' 10 1/2"	4' 7"	4' 11"	4' 6 1/2"	5' 0"	4' 5 1/2"	5' 1"	4' 4 1/2"	5' 3"	4' 2 1/2"	5' 5 1/2"
4' 6"	4' 5 1/2"	4' 6 1/2"	4' 5 1/2"	4' 6 1/2"	4' 5"	4' 7"	4' 5"	4' 7"	4' 4 1/2"	4' 7 1/2"	4' 4"	4' 8"	4' 3"	4' 9"	4' 2"	4' 11"	4' 0"	5' 1 1/2"
4' 3"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2"	4' 4"	4' 1 1/2"	4' 4 1/2"	4' 1"	4' 5"	4' 1/2"	4' 6"	3' 11"	4' 7"	3' 10"	4' 9 1/2"
4' 0"	3' 11 1/2"	4' 1/2"	3' 11 1/2"	4' 1/2"	3' 11 1/2"	4' 1/2"	3' 11"	4' 1"	3' 11"	4' 1 1/2"	3' 10 1/2"	4' 2"	3' 9 1/2"	4' 3"	3' 8 1/2"	4' 4"	3' 7 1/2"	4' 5 1/2"
3' 9"	3' 8 1/2"	3' 9 1/2"	3' 8 1/2"	3' 9 1/2"	3' 8 1/2"	3' 9 1/2"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7 1/2"	3' 11"	3' 7"	3' 11"	3' 6"	4' 0"	3' 5"	4' 2"
3' 6"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5"	3' 7"	3' 4 1/2"	3' 7 1/2"	3' 4"	3' 8"	3' 3 1/2"	3' 9"	3' 2 1/2"	3' 10 1/2"
3' 3"	3' 3"	3' 3"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1 1/2"	3' 5"	3' 1"	3' 5"	3' 0"	3' 6 1/2"
3' 0"	3' 0"	3' 0"	3' 0"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11 1/2"	3' 1/2"	2' 11"	3' 1"	2' 10 1/2"	3' 1"	2' 10"	3' 2"	2' 9 1/2"	3' 3"
2' 9"	2' 9"	2' 9"	2' 9"	2' 9"	2' 8 1/2"	2' 9 1/2"	2' 8 1/2"	2' 9 1/2"	2' 8 1/2"	2' 9 1/2"	2' 8"	2' 10"	2' 8"	2' 10"	2' 7 1/2"	2' 11"	2' 7"	2' 11 1/2"
2' 6"	2' 6"	2' 6"	2' 6"	2' 6"	2' 6"	2' 6"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5 1/2"	2' 6 1/2"	2' 5"	2' 7"	2' 4 1/2"	2' 7"	2' 4"	2' 8"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 100 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	937' 5"	infinity	715' 2"	infinity	504' 9"	infinity	357' 7"	infinity	252' 10"	infinity	178' 7"	infinity	126' 4"	infinity	89' 3"	infinity	63' 1"	infinity
60' 0"	56' 5"	64' 1"	55' 5"	65' 6"	53' 8"	68' 1"	51' 5"	72' 0"	48' 7"	78' 6"	45' 0"	90' 1"	40' 9"	113' 9"	36' 0"	180' 11"	30' 10"	1106' 6"
40' 0"	38' 5"	41' 9"	37' 11"	42' 4"	37' 1"	43' 5"	36' 0"	45' 0"	34' 7"	47' 5"	32' 9"	51' 5"	30' 5"	58' 4"	27' 8"	72' 0"	24' 7"	107' 9"
30' 0"	29' 1"	31' 0"	28' 10"	31' 4"	28' 4"	31' 10"	27' 8"	32' 9"	26' 10"	34' 0"	25' 9"	36' 0"	24' 4"	39' 3"	22' 6"	44' 11"	20' 5"	56' 8"
25' 0"	24' 4"	25' 8"	24' 2"	25' 11"	23' 10"	26' 3"	23' 5"	26' 10"	22' 9"	27' 8"	22' 0"	29' 0"	20' 11"	31' 1"	19' 7"	34' 7"	18' 0"	41' 1"
20' 0"	19' 7"	20' 5"	19' 6"	20' 7"	19' 3"	20' 10"	18' 11"	21' 2"	18' 7"	21' 8"	18' 0"	22' 6"	17' 4"	23' 8"	16' 5"	25' 8"	15' 3"	29' 1"
17' 0"	16' 8"	17' 4"	16' 7"	17' 5"	16' 5"	17' 7"	16' 3"	17' 10"	15' 11"	18' 2"	15' 7"	18' 9"	15' 0"	19' 7"	14' 4"	20' 11"	13' 5"	23' 1"
15' 0"	14' 9"	15' 3"	14' 8"	15' 4"	14' 7"	15' 5"	14' 5"	15' 8"	14' 2"	15' 11"	13' 10"	16' 4"	13' 5"	17' 0"	12' 11"	17' 11"	12' 2"	19' 7"
13' 0"	12' 10"	13' 2"	12' 9"	13' 3"	12' 8"	13' 4"	12' 7"	13' 6"	12' 5"	13' 8"	12' 2"	14' 0"	11' 10"	14' 5"	11' 5"	15' 2"	10' 10"	16' 3"
12' 0"	11' 10"	12' 2"	11' 10"	12' 2"	11' 9"	12' 3"	11' 7"	12' 5"	11' 6"	12' 7"	11' 3"	12' 10"	11' 0"	13' 3"	10' 7"	13' 10"	10' 2"	14' 9"
11' 0"	10' 11"	11' 2"	10' 10"	11' 2"	10' 9"	11' 3"	10' 8"	11' 4"	10' 7"	11' 6"	10' 5"	11' 8"	10' 2"	12' 0"	9' 10"	12' 6"	9' 5"	13' 3"
10' 0"	9' 11"	10' 1"	9' 10"	10' 2"	9' 10"	10' 2"	9' 9"	10' 3"	9' 8"	10' 5"	9' 6"	10' 7"	9' 3"	10' 10"	9' 0"	11' 3"	8' 8"	11' 10"
9' 6"	9' 5"	9' 7"	9' 5"	9' 7"	9' 4"	9' 8"	9' 3"	9' 9"	9' 2"	9' 10"	9' 0"	10' 0"	8' 10"	10' 3"	8' 7"	10' 7"	8' 4"	11' 1"
9' 0"	8' 11"	9' 1"	8' 11"	9' 1"	8' 10"	9' 2"	8' 9"	9' 3"	8' 8"	9' 4"	8' 7"	9' 6"	8' 5"	9' 8"	8' 2"	10' 0"	7' 11"	10' 5"
8' 6"	8' 5"	8' 7"	8' 5"	8' 7"	8' 4"	8' 8"	8' 4"	8' 8"	8' 3"	8' 9"	8' 2"	8' 11"	8' 0"	9' 1"	7' 9"	9' 4"	7' 6"	9' 9"
8' 0"	7' 11"	8' 1"	7' 11"	8' 1"	7' 11"	8' 1"	7' 10"	8' 2"	7' 9"	8' 3"	7' 8"	8' 4"	7' 7"	8' 6"	7' 4"	8' 9"	7' 2"	9' 1"
7' 6"	7' 5"	7' 7"	7' 5"	7' 7"	7' 5"	7' 7"	7' 4"	7' 8"	7' 4"	7' 9"	7' 3"	7' 10"	7' 1"	7' 11"	6' 11"	8' 2"	6' 9"	8' 6"
7' 0"	6' 11"	7' 1"	6' 11"	7' 1"	6' 11"	7' 1"	6' 10"	7' 2"	6' 10"	7' 2"	6' 9"	7' 3"	6' 8"	7' 5"	6' 6"	7' 7"	6' 4"	7' 10"
6' 6"	6' 5"	6' 7"	6' 5"	6' 7"	6' 5"	6' 7"	6' 5"	6' 7"	6' 4"	6' 8"	6' 3"	6' 9"	6' 2"	6' 10"	6' 1"	7' 0"	5' 11"	7' 2"
6' 0"	6' 0"	6' 0"	5' 11"	6' 1"	5' 11"	6' 1"	5' 11"	6' 1"	5' 10"	6' 2"	5' 10"	6' 2"	5' 9"	6' 3"	5' 8"	6' 5"	5' 6"	6' 7"
5' 6"	5' 5 1/2"	5' 6 1/2"	5' 5 1/2"	5' 6 1/2"	5' 5 1/2"	5' 6 1/2"	5' 5"	5' 7"	5' 4 1/2"	5' 7"	5' 4"	5' 8"	5' 3 1/2"	5' 9"	5' 2 1/2"	5' 10"	5' 1"	6' 0"
5' 0"	4' 11 1/2"	5' 1/2"	4' 11 1/2"	5' 1/2"	4' 11 1/2"	5' 1/2"	4' 11"	5' 1"	4' 11"	5' 1"	4' 10 1/2"	5' 2"	4' 10"	5' 2"	4' 9"	5' 3"	4' 8"	5' 5"
4' 9"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 8"	4' 10"	4' 7 1/2"	4' 10"	4' 7"	4' 11"	4' 6 1/2"	5' 0"	4' 5 1/2"	5' 1 1/2"
4' 6"	4' 6"	4' 6"	4' 5 1/2"	4' 6 1/2"	4' 5 1/2"	4' 6 1/2"	4' 5 1/2"	4' 6 1/2"	4' 5"	4' 7"	4' 5"	4' 7"	4' 4 1/2"	4' 8"	4' 3 1/2"	4' 9"	4' 2 1/2"	4' 10"
4' 3"	4' 3"	4' 3"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2"	4' 4"	4' 2"	4' 4"	4' 1 1/2"	4' 5"	4' 1"	4' 5"	4' 0"	4' 6 1/2"
4' 0"	4' 0"	4' 0"	4' 0"	4' 0"	3' 11 1/2"	4' 1/2"	3' 11 1/2"	4' 1/2"	3' 11 1/2"	4' 1/2"	3' 11"	4' 1"	3' 10 1/2"	4' 1"	3' 10"	4' 2"	3' 9 1/2"	4' 3"
3' 9"	3' 9"	3' 9"	3' 9"	3' 9"	3' 8 1/2"	3' 9 1/2"	3' 8 1/2"	3' 9 1/2"	3' 8 1/2"	3' 9 1/2"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7 1/2"	3' 11"	3' 6 1/2"	3' 11 1/2"
3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 6 1/2"	3' 5 1/2"	3' 7"	3' 5"	3' 7"	3' 4 1/2"	3' 8"	3' 4"	3' 8"
3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2 1/2"	3' 3 1/2"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1 1/2"	3' 5"



SUMMILUX-C

Depth of Field

Circle of Confusion 0.025 mm
Focal Length 135 mm

T/No	1.4		2		2.8		4		5.6		8		11		16		22	
Focus Distance(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)	Short Focus(ft)	Long Focus(ft)
infinity	1729' 5"	infinity	1275' 7"	infinity	906' 0"	infinity	644' 8"	infinity	458' 2"	infinity	325' 5"	infinity	231' 4"	infinity	164' 5"	infinity	116' 10"	infinity
60'0"	58' 0"	62' 2"	57' 4"	62' 11"	56' 4"	64' 3"	54' 11"	66' 1"	53' 1"	69' 0"	50' 9"	73' 5"	47' 9"	80' 10"	44' 1"	94' 1"	39' 9"	122' 5"
40'0"	39' 1"	40' 11"	38' 10"	41' 3"	38' 4"	41' 10"	37' 8"	42' 7"	36' 10"	43' 9"	35' 8"	45' 6"	34' 2"	48' 3"	32' 3"	52' 8"	29' 11"	60' 6"
30'0"	29' 6"	30' 6"	29' 4"	30' 9"	29' 1"	31' 0"	28' 8"	31' 5"	28' 2"	32' 1"	27' 6"	33' 0"	26' 7"	34' 5"	25' 5"	36' 7"	23' 11"	40' 2"
25'0"	24' 8"	25' 4"	24' 6"	25' 6"	24' 4"	25' 8"	24' 1"	26' 0"	23' 9"	26' 5"	23' 3"	27' 0"	22' 7"	28' 0"	21' 9"	29' 5"	20' 8"	31' 8"
20'0"	19' 9"	20' 3"	19' 8"	20' 4"	19' 7"	20' 5"	19' 5"	20' 8"	19' 2"	20' 11"	18' 10"	21' 3"	18' 5"	21' 10"	17' 10"	22' 8"	17' 2"	24' 0"
17'0"	16' 10"	17' 2"	16' 9"	17' 3"	16' 8"	17' 4"	16' 7"	17' 5"	16' 5"	17' 8"	16' 2"	17' 11"	15' 10"	18' 4"	15' 5"	18' 11"	14' 11"	19' 10"
15'0"	14' 10"	15' 2"	14' 10"	15' 2"	14' 9"	15' 3"	14' 8"	15' 4"	14' 6"	15' 6"	14' 4"	15' 8"	14' 1"	16' 0"	13' 9"	16' 5"	13' 4"	17' 2"
13'0"	12' 11"	13' 1"	12' 10"	13' 2"	12' 10"	13' 2"	12' 9"	13' 3"	12' 8"	13' 4"	12' 6"	13' 6"	12' 4"	13' 9"	12' 1"	14' 1"	11' 9"	14' 7"
12'0"	11' 11"	12' 1"	11' 11"	12' 1"	11' 10"	12' 2"	11' 9"	12' 3"	11' 8"	12' 4"	11' 7"	12' 5"	11' 5"	12' 8"	11' 3"	12' 11"	10' 11"	13' 4"
11'0"	10' 11"	11' 1"	10' 11"	11' 1"	10' 10"	11' 2"	10' 10"	11' 2"	10' 9"	11' 3"	10' 8"	11' 4"	10' 6"	11' 6"	10' 4"	11' 9"	10' 1"	12' 1"
10'0"	9' 11"	10' 1"	9' 11"	10' 1"	9' 11"	10' 1"	9' 10"	10' 2"	9' 10"	10' 3"	9' 9"	10' 4"	9' 7"	10' 5"	9' 5"	10' 7"	9' 3"	10' 11"
9'6"	9' 5"	9' 7"	9' 5"	9' 7"	9' 5"	9' 7"	9' 4"	9' 8"	9' 4"	9' 8"	9' 3"	9' 9"	9' 2"	9' 11"	9' 0"	10' 1"	8' 10"	10' 4"
9'0"	8' 11"	9' 1"	8' 11"	9' 1"	8' 11"	9' 1"	8' 11"	9' 1"	8' 10"	9' 2"	8' 9"	9' 3"	8' 8"	9' 4"	8' 7"	9' 6"	8' 5"	9' 9"
8'6"	8' 5"	8' 7"	8' 5"	8' 7"	8' 5"	8' 7"	8' 5"	8' 7"	8' 4"	8' 8"	8' 4"	8' 9"	8' 3"	8' 10"	8' 1"	8' 11"	7' 11"	9' 2"
8'0"	8' 0"	8' 0"	7' 11"	8' 1"	7' 11"	8' 1"	7' 11"	8' 1"	7' 10"	8' 2"	7' 10"	8' 2"	7' 9"	8' 3"	7' 8"	8' 5"	7' 6"	8' 7"
7'6"	7' 6"	7' 6"	7' 6"	7' 7"	7' 5"	7' 7"	7' 5"	7' 7"	7' 5"	7' 7"	7' 4"	7' 8"	7' 3"	7' 9"	7' 2"	7' 10"	7' 1"	8' 0"
7'0"	7' 0"	7' 0"	7' 0"	7' 0"	6' 11"	7' 1"	6' 11"	7' 1"	6' 11"	7' 1"	6' 10"	7' 2"	6' 10"	7' 2"	6' 9"	7' 3"	6' 8"	7' 5"
6'6"	6' 6"	6' 6"	6' 6"	6' 6"	6' 5"	6' 7"	6' 5"	6' 7"	6' 5"	6' 7"	6' 5"	6' 7"	6' 4"	6' 8"	6' 3"	6' 9"	6' 2"	6' 10"
6'0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	6' 0"	5' 11"	6' 1"	5' 11"	6' 1"	5' 11"	6' 1"	5' 10"	6' 2"	5' 10"	6' 3"	5' 9"	6' 4"
5'9"	5' 9"	5' 9"	5' 8 1/2"	5' 9 1/2"	5' 8 1/2"	5' 9 1/2"	5' 8 1/2"	5' 9 1/2"	5' 8"	5' 10"	5' 8"	5' 10"	5' 7 1/2"	5' 11"	5' 7"	5' 11"	5' 6"	6' 1/2"
5'6"	5' 6"	5' 6"	5' 5 1/2"	5' 6 1/2"	5' 5 1/2"	5' 6 1/2"	5' 5 1/2"	5' 6 1/2"	5' 5 1/2"	5' 6 1/2"	5' 5"	5' 7"	5' 4 1/2"	5' 7"	5' 4"	5' 8"	5' 3 1/2"	5' 9"
5'3"	5' 3"	5' 3"	5' 3"	5' 3"	5' 2 1/2"	5' 3 1/2"	5' 2 1/2"	5' 3 1/2"	5' 2 1/2"	5' 3 1/2"	5' 2"	5' 4"	5' 1 1/2"	5' 4"	5' 1"	5' 5"	5' 1/2"	5' 5 1/2"
5'0"	5' 0"	5' 0"	5' 0"	5' 0"	4' 11 1/2"	5' 1/2"	4' 11 1/2"	5' 1/2"	4' 11 1/2"	5' 1/2"	4' 11"	5' 1"	4' 11"	5' 1"	4' 10 1/2"	5' 2"	4' 9 1/2"	5' 2 1/2"
4'9"	4' 9"	4' 9"	4' 9"	4' 9"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 8 1/2"	4' 9 1/2"	4' 10"	4' 8"	4' 10"	4' 7 1/2"	4' 11"	4' 11"
4'6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 5 1/2"	4' 6 1/2"	4' 5 1/2"	4' 6 1/2"	4' 5 1/2"	4' 6 1/2"	4' 7"	4' 5"	4' 7"	4' 4 1/2"	4' 7"	4' 8"
4'5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 5"	4' 4 1/2"	4' 5 1/2"	4' 4 1/2"	4' 5 1/2"	4' 4 1/2"	4' 5 1/2"	4' 4 1/2"	4' 4"	4' 6"	4' 4"	4' 6"	4' 7"
4'4"	4' 4"	4' 4"	4' 4"	4' 4"	4' 4"	4' 4"	4' 3 1/2"	4' 4 1/2"	4' 3 1/2"	4' 4 1/2"	4' 3 1/2"	4' 4 1/2"	4' 3 1/2"	4' 4 1/2"	4' 3"	4' 5"	4' 3"	4' 6"
4'3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2 1/2"	4' 3 1/2"	4' 2"	4' 4"	4' 2"	4' 4"
4'2"	4' 2"	4' 2"	4' 2"	4' 2"	4' 2"	4' 2"	4' 1 1/2"	4' 2 1/2"	4' 1 1/2"	4' 2 1/2"	4' 1 1/2"	4' 2 1/2"	4' 1 1/2"	4' 2 1/2"	4' 1"	4' 3"	4' 1"	4' 3"
4'1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1"	4' 1/2"	4' 1 1/2"	4' 1/2"	4' 1 1/2"	4' 1/2"	4' 1 1/2"	4' 1/2"	4' 1 1/2"	4' 0"	4' 2"	4' 0"	4' 2"

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