

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=45 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	210.70		180.17		127.54		90.35	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	76.72	277.23	72.30	356.95	62.11	2004.31	51.82	∞
60'	46.90	83.43	45.22	89.39	41.05	112.27	36.33	176.29
50'	40.59	65.20	39.33	68.77	36.15	81.50	32.45	110.52
40'	33.77	49.11	32.90	51.09	30.66	57.76	27.97	70.87
30'	26.38	34.79	25.86	35.77	24.46	38.88	22.73	44.35
25'	22.46	28.21	22.07	28.85	21.06	30.82	19.77	34.13
20'	18.36	21.98	18.10	22.36	17.42	23.51	16.54	25.36
19'	17.51	20.77	17.28	21.11	16.66	22.13	15.86	23.76
18'	16.66	19.58	16.46	19.87	15.90	20.77	15.17	22.20
17'	15.81	18.39	15.62	18.65	15.12	19.44	14.46	20.68
16'	14.94	17.22	14.78	17.45	14.33	18.13	13.74	19.20
15'	14.07	16.06	13.93	16.26	13.53	16.85	13.00	17.76
14'	13.19	14.92	13.07	15.09	12.72	15.59	12.25	16.36
13'	12.31	13.78	12.20	13.92	11.89	14.35	11.49	15.00
12'	11.41	12.66	11.32	12.78	11.06	13.13	10.71	13.67
11'	10.51	11.54	10.43	11.64	10.21	11.93	9.91	12.37
10'	9.60	10.44	9.53	10.52	9.35	10.76	9.10	11.11
9'6"	9.14	9.90	9.08	9.97	8.91	10.17	8.69	10.49
9'	8.68	9.35	8.62	9.41	8.48	9.60	8.28	9.87
8'6"	8.21	8.81	8.17	8.87	8.03	9.03	7.86	9.27
8'	7.75	8.27	7.71	8.32	7.59	8.46	7.43	8.67
7'6"	7.28	7.74	7.24	7.78	7.14	7.90	7.00	8.08
7'	6.81	7.20	6.78	7.24	6.69	7.34	6.57	7.49
6'6"	6.34	6.67	6.31	6.70	6.24	6.79	6.13	6.92
6'	5.86	6.14	5.84	6.17	5.78	6.24	5.69	6.35
5'9"	5.63	5.88	5.61	5.90	5.55	5.97	5.47	6.07
5'6"	5.39	5.62	5.37	5.64	5.32	5.70	5.24	5.79
5'3"	5.15	5.36	5.13	5.37	5.08	5.43	5.02	5.51
5'	4.91	5.09	4.89	5.11	4.85	5.16	4.79	5.23
4'11"	4.83	5.01	4.81	5.02	4.77	5.07	4.72	5.14
4'10"	4.75	4.92	4.74	4.94	4.70	4.98	4.64	5.04
4'9"	4.67	4.83	4.66	4.85	4.62	4.89	4.57	4.95
4'8"	4.59	4.75	4.58	4.76	4.54	4.80	4.49	4.86
4'7"	4.51	4.66	4.50	4.67	4.46	4.71	4.41	4.77
4'6"	4.43	4.57	4.42	4.59	4.38	4.62	4.34	4.68
4'5"	4.35	4.49	4.34	4.50	4.30	4.54	4.26	4.59
4'4"	4.27	4.40	4.26	4.41	4.23	4.45	4.18	4.50
4'3"	4.19	4.32	4.18	4.33	4.15	4.36	4.11	4.41
4'2"	4.11	4.23	4.10	4.24	4.07	4.27	4.03	4.32
4'1"	4.03	4.14	4.02	4.15	3.99	4.18	3.95	4.23
4'	3.95	4.06	3.94	4.07	3.91	4.09	3.87	4.13
3'11"	3.86	3.97	3.86	3.98	3.83	4.01	3.80	4.04
3'10"	3.78	3.88	3.78	3.89	3.75	3.92	3.72	3.96
3'9"	3.70	3.80	3.70	3.81	3.67	3.83	3.64	3.87
3'8"	3.62	3.71	3.61	3.72	3.59	3.74	3.56	3.78
3'7"	3.54	3.63	3.53	3.63	3.51	3.66	3.49	3.69
3'6"	3.46	3.54	3.45	3.55	3.43	3.57	3.41	3.60
3'5"	3.38	3.46	3.37	3.46	3.36	3.48	3.33	3.51
3'4"	3.30	3.37	3.29	3.38	3.28	3.39	3.25	3.42

T8		T11		T16		T22		T32	
64.05		45.47		32.30		23.00		16.43	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
42.02	∞	33.20	∞	25.64	∞	19.45	∞	14.57	∞
31.26	926.72	26.14	∞	21.26	∞	16.85	∞	13.09	∞
28.36	223.60	24.10	∞	19.89	∞	16.00	∞	12.58	∞
24.89	104.58	21.56	323.05	18.15	∞	14.87	∞	11.88	∞
20.68	55.42	18.35	85.91	15.84	401.95	13.30	∞	10.88	∞
18.21	40.27	16.39	54.12	14.37	106.44	12.26	∞	10.19	∞
15.45	28.57	14.13	34.81	12.62	50.62	10.98	144.65	9.30	∞
14.85	26.54	13.64	31.82	12.23	44.48	10.69	103.31	9.09	∞
14.25	24.59	13.13	29.05	11.82	39.20	10.38	78.41	8.87	∞
13.62	22.73	12.60	26.47	11.40	34.61	10.05	61.77	8.64	∞
12.98	20.95	12.05	24.07	10.95	30.58	9.71	49.87	8.39	536.84
12.33	19.24	11.49	21.83	10.49	27.01	9.35	40.93	8.13	157.86
11.66	17.60	10.91	19.73	10.01	23.84	8.97	33.97	7.84	87.37
10.97	16.02	10.31	17.75	9.50	20.99	8.57	28.40	7.54	57.67
10.26	14.51	9.68	15.90	8.97	18.42	8.14	23.84	7.21	41.29
9.53	13.05	9.03	14.15	8.42	16.10	7.69	20.04	6.86	30.92
8.78	11.64	8.36	12.50	7.84	13.98	7.21	16.82	6.49	23.76
8.40	10.96	8.02	11.71	7.54	12.99	6.96	15.39	6.29	20.95
8.01	10.29	7.67	10.95	7.23	12.04	6.70	14.06	6.08	18.52
7.62	9.63	7.31	10.20	6.92	11.14	6.43	12.82	5.86	16.39
7.22	8.98	6.95	9.47	6.59	10.27	6.15	11.67	5.63	14.51
6.82	8.35	6.57	8.76	6.26	9.43	5.87	10.59	5.40	12.85
6.41	7.72	6.20	8.07	5.92	8.63	5.57	9.57	5.15	11.36
5.99	7.11	5.81	7.40	5.57	7.86	5.26	8.62	4.89	10.02
5.57	6.51	5.42	6.74	5.21	7.12	4.94	7.73	4.62	8.81
5.36	6.21	5.22	6.42	5.03	6.76	4.78	7.30	4.48	8.24
5.15	5.91	5.01	6.11	4.84	6.40	4.62	6.88	4.34	7.71
4.93	5.62	4.81	5.79	4.65	6.05	4.45	6.48	4.19	7.19
4.71	5.33	4.60	5.48	4.46	5.71	4.27	6.08	4.04	6.70
4.64	5.23	4.54	5.38	4.40	5.60	4.21	5.95	3.99	6.54
4.57	5.14	4.47	5.28	4.33	5.49	4.16	5.83	3.93	6.39
4.49	5.04	4.40	5.18	4.27	5.38	4.10	5.70	3.88	6.23
4.42	4.95	4.33	5.07	4.20	5.27	4.04	5.57	3.83	6.08
4.35	4.85	4.26	4.97	4.14	5.16	3.98	5.45	3.78	5.93
4.27	4.76	4.19	4.87	4.07	5.05	3.92	5.33	3.72	5.78
4.20	4.66	4.12	4.77	4.00	4.94	3.86	5.21	3.67	5.64
4.12	4.57	4.04	4.67	3.94	4.84	3.80	5.08	3.62	5.49
4.05	4.47	3.97	4.58	3.87	4.73	3.74	4.96	3.56	5.35
3.98	4.38	3.90	4.48	3.80	4.62	3.67	4.85	3.51	5.21
3.90	4.29	3.83	4.38	3.74	4.52	3.61	4.73	3.45	5.07
3.83	4.19	3.76	4.28	3.67	4.41	3.55	4.61	3.40	4.93
3.75	4.10	3.69	4.18	3.60	4.31	3.49	4.50	3.34	4.80
3.68	4.01	3.61	4.09	3.53	4.20	3.42	4.38	3.28	4.67
3.60	3.92	3.54	3.99	3.46	4.10	3.36	4.27	3.22	4.54
3.52	3.82	3.47	3.89	3.39	4.00	3.30	4.16	3.17	4.41
3.45	3.73	3.40	3.80	3.33	3.89	3.23	4.04	3.11	4.28
3.37	3.64	3.32	3.70	3.26	3.79	3.17	3.93	3.05	4.15
3.30	3.55	3.25	3.61	3.19	3.69	3.10	3.82	2.99	4.03
3.22	3.46	3.18	3.51	3.12	3.59	3.03	3.71	2.93	3.91

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=50 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	257.49		220.16		155.81		110.32	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	82.09	223.74	77.92	262.37	68.06	517.87	57.76	∞
60'	48.83	77.89	47.34	82.06	43.54	96.86	39.12	130.15
50'	42.02	61.78	40.91	64.36	38.06	73.10	34.64	90.49
40'	34.75	47.15	33.99	48.63	32.01	53.43	29.57	62.11
30'	26.97	33.81	26.52	34.56	25.31	36.89	23.77	40.79
25'	22.88	27.57	22.55	28.06	21.67	29.57	20.55	32.00
20'	18.63	21.59	18.42	21.89	17.84	22.78	17.07	24.18
19'	17.76	20.43	17.57	20.69	17.04	21.49	16.35	22.72
18'	16.89	19.27	16.72	19.50	16.24	20.21	15.61	21.29
17'	16.01	18.12	15.85	18.33	15.43	18.95	14.86	19.90
16'	15.12	16.99	14.99	17.17	14.60	17.71	14.10	18.53
15'	14.23	15.86	14.11	16.02	13.77	16.48	13.32	17.19
14'	13.33	14.74	13.22	14.88	12.93	15.27	12.53	15.87
13'	12.43	13.63	12.33	13.75	12.08	14.08	11.73	14.59
12'	11.51	12.53	11.43	12.63	11.21	12.91	10.92	13.33
11'	10.59	11.44	10.53	11.52	10.34	11.75	10.09	12.10
10'	9.67	10.36	9.61	10.42	9.46	10.61	9.25	10.89
9'6"	9.20	9.82	9.15	9.88	9.01	10.05	8.83	10.29
9'	8.73	9.29	8.69	9.34	8.56	9.48	8.40	9.70
8'6"	8.26	8.75	8.22	8.80	8.11	8.93	7.96	9.12
8'	7.79	8.22	7.76	8.26	7.66	8.37	7.53	8.54
7'6"	7.32	7.69	7.29	7.73	7.20	7.82	7.09	7.97
7'	6.84	7.17	6.82	7.19	6.74	7.28	6.64	7.40
6'6"	6.37	6.64	6.34	6.66	6.28	6.74	6.20	6.84
6'	5.89	6.12	5.87	6.14	5.82	6.20	5.74	6.28
5'9"	5.65	5.86	5.63	5.88	5.58	5.93	5.52	6.01
5'6"	5.41	5.60	5.39	5.61	5.35	5.66	5.29	5.73
5'3"	5.17	5.34	5.15	5.35	5.11	5.40	5.06	5.46
5'	4.92	5.08	4.91	5.09	4.88	5.13	4.83	5.19
4'11"	4.84	4.99	4.83	5.00	4.80	5.04	4.75	5.10
4'10"	4.76	4.91	4.75	4.92	4.72	4.95	4.67	5.01
4'9"	4.68	4.82	4.67	4.83	4.64	4.87	4.60	4.92
4'8"	4.60	4.73	4.59	4.74	4.56	4.78	4.52	4.83
4'7"	4.52	4.65	4.51	4.66	4.48	4.69	4.44	4.74
4'6"	4.44	4.56	4.43	4.57	4.40	4.60	4.36	4.65
4'5"	4.36	4.48	4.35	4.49	4.32	4.51	4.29	4.56
4'4"	4.28	4.39	4.27	4.40	4.24	4.43	4.21	4.47
4'3"	4.20	4.30	4.19	4.31	4.16	4.34	4.13	4.38
4'2"	4.12	4.22	4.11	4.23	4.09	4.25	4.05	4.29
4'1"	4.04	4.13	4.03	4.14	4.01	4.16	3.97	4.20
4'	3.95	4.05	3.95	4.05	3.93	4.08	3.90	4.11
3'11"	3.87	3.96	3.87	3.97	3.85	3.99	3.82	4.02
3'10"	3.79	3.88	3.79	3.88	3.77	3.90	3.74	3.93
3'9"	3.71	3.79	3.70	3.80	3.69	3.82	3.66	3.84
3'8"	3.63	3.70	3.62	3.71	3.61	3.73	3.58	3.76
3'7"	3.55	3.62	3.54	3.63	3.53	3.64	3.50	3.67
3'6"	3.47	3.53	3.46	3.54	3.45	3.56	3.42	3.58
3'5"	3.39	3.45	3.38	3.45	3.37	3.47	3.35	3.49
3'4"	3.30	3.36	3.30	3.37	3.29	3.38	3.27	3.40

T8		T11		T16		T22		T32	
78.17		55.44		39.35		27.97		19.94	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
47.60	∞	38.16	∞	29.84	∞	22.85	∞	17.23	∞
34.22	253.95	29.09	∞	24.03	∞	19.32	∞	15.17	∞
30.76	136.64	26.57	494.68	22.29	∞	18.19	∞	14.48	∞
26.71	80.71	23.51	140.39	20.11	∞	16.73	∞	13.55	∞
21.90	47.98	19.72	64.00	17.29	122.22	14.75	∞	12.24	∞
19.15	36.23	17.47	44.59	15.55	66.49	13.48	222.31	11.37	∞
16.10	26.49	14.91	30.65	13.51	39.49	11.93	67.09	10.26	∞
15.46	24.74	14.36	28.32	13.06	35.67	11.58	56.67	10.01	361.72
14.80	23.05	13.79	26.11	12.59	32.22	11.22	48.34	9.74	170.69
14.13	21.42	13.21	24.02	12.11	29.07	10.84	41.51	9.45	107.34
13.44	19.83	12.61	22.04	11.60	26.19	10.44	35.82	9.15	75.72
12.73	18.30	11.99	20.15	11.08	23.55	10.02	31.01	8.83	56.77
12.02	16.81	11.36	18.35	10.54	21.11	9.58	26.88	8.50	44.15
11.28	15.37	10.70	16.64	9.98	18.86	9.12	23.30	8.14	35.13
10.53	13.98	10.03	15.01	9.39	16.78	8.63	20.17	7.75	28.37
9.76	12.62	9.33	13.45	8.79	14.84	8.12	17.40	7.35	23.12
8.98	11.31	8.61	11.96	8.15	13.03	7.58	14.94	6.91	18.91
8.58	10.66	8.25	11.24	7.83	12.17	7.30	13.81	6.68	17.11
8.17	10.03	7.88	10.53	7.49	11.34	7.01	12.74	6.44	15.48
7.76	9.40	7.50	9.84	7.15	10.54	6.72	11.73	6.19	13.98
7.35	8.79	7.11	9.16	6.80	9.76	6.41	10.76	5.94	12.61
6.93	8.18	6.72	8.50	6.45	9.01	6.10	9.84	5.67	11.35
6.51	7.58	6.32	7.85	6.08	8.28	5.78	8.97	5.40	10.19
6.08	6.99	5.92	7.22	5.71	7.57	5.44	8.14	5.11	9.11
5.64	6.41	5.51	6.60	5.33	6.88	5.10	7.34	4.81	8.11
5.43	6.12	5.30	6.29	5.14	6.55	4.93	6.96	4.66	7.64
5.21	5.83	5.09	5.99	4.94	6.22	4.75	6.58	4.50	7.18
4.98	5.55	4.88	5.69	4.75	5.89	4.57	6.21	4.34	6.74
4.76	5.27	4.67	5.39	4.55	5.57	4.38	5.85	4.18	6.31
4.69	5.17	4.60	5.29	4.48	5.46	4.32	5.73	4.12	6.17
4.61	5.08	4.53	5.19	4.41	5.36	4.26	5.62	4.06	6.03
4.54	4.99	4.45	5.09	4.34	5.25	4.20	5.50	4.01	5.90
4.46	4.89	4.38	5.00	4.28	5.15	4.13	5.38	3.95	5.76
4.39	4.80	4.31	4.90	4.21	5.05	4.07	5.27	3.90	5.63
4.31	4.71	4.24	4.80	4.14	4.94	4.01	5.16	3.84	5.50
4.24	4.62	4.16	4.71	4.07	4.84	3.94	5.04	3.78	5.37
4.16	4.52	4.09	4.61	4.00	4.74	3.88	4.93	3.72	5.24
4.08	4.43	4.02	4.51	3.93	4.63	3.81	4.82	3.66	5.11
4.01	4.34	3.95	4.42	3.86	4.53	3.75	4.71	3.60	4.98
3.93	4.25	3.87	4.32	3.79	4.43	3.68	4.60	3.55	4.86
3.86	4.16	3.80	4.23	3.72	4.33	3.62	4.49	3.49	4.73
3.78	4.07	3.72	4.13	3.65	4.23	3.55	4.38	3.43	4.61
3.70	3.98	3.65	4.04	3.58	4.13	3.49	4.27	3.36	4.49
3.63	3.89	3.58	3.94	3.51	4.03	3.42	4.16	3.30	4.37
3.55	3.79	3.50	3.85	3.44	3.93	3.35	4.06	3.24	4.25
3.47	3.70	3.43	3.76	3.37	3.84	3.29	3.95	3.18	4.13
3.39	3.61	3.35	3.66	3.30	3.74	3.22	3.85	3.12	4.02
3.32	3.52	3.28	3.57	3.22	3.64	3.15	3.74	3.05	3.90
3.24	3.43	3.20	3.48	3.15	3.54	3.08	3.64	2.99	3.79

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=65 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	434.73		371.65		262.89		186.02	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	94.22	165.34	90.90	176.70	82.61	219.82	73.19	335.84
60'	52.83	69.44	51.78	71.35	49.01	77.43	45.56	88.05
50'	44.94	56.36	44.18	57.61	42.15	61.49	39.58	67.98
40'	36.71	43.95	36.20	44.70	34.84	46.99	33.07	50.66
30'	28.13	32.15	27.83	32.54	27.02	33.73	25.96	35.57
25'	23.69	26.46	23.49	26.73	22.91	27.52	22.15	28.72
20'	19.16	20.91	19.03	21.08	18.65	21.56	18.15	22.28
19'	18.25	19.82	18.12	19.97	17.78	20.40	17.33	21.04
18'	17.32	18.73	17.21	18.86	16.91	19.25	16.50	19.82
17'	16.40	17.65	16.30	17.77	16.03	18.10	15.66	18.60
16'	15.47	16.57	15.38	16.67	15.14	16.97	14.81	17.41
15'	14.53	15.50	14.46	15.59	14.24	15.84	13.95	16.22
14'	13.59	14.43	13.53	14.51	13.34	14.73	13.09	15.05
13'	12.65	13.37	12.59	13.43	12.43	13.62	12.21	13.90
12'	11.70	12.31	11.66	12.37	11.52	12.52	11.33	12.76
11'	10.75	11.26	10.71	11.30	10.60	11.44	10.44	11.63
10'	9.80	10.21	9.76	10.25	9.67	10.35	9.54	10.51
9'6"	9.32	9.69	9.29	9.72	9.20	9.82	9.09	9.96
9'	8.84	9.17	8.81	9.20	8.74	9.28	8.63	9.41
8'6"	8.36	8.65	8.33	8.67	8.26	8.75	8.17	8.86
8'	7.87	8.13	7.85	8.15	7.79	8.22	7.71	8.31
7'6"	7.39	7.61	7.37	7.63	7.32	7.69	7.25	7.77
7'	6.91	7.10	6.89	7.11	6.84	7.16	6.78	7.23
6'6"	6.42	6.58	6.41	6.60	6.37	6.64	6.31	6.70
6'	5.93	6.07	5.92	6.08	5.89	6.12	5.84	6.17
5'9"	5.69	5.81	5.68	5.82	5.65	5.86	5.61	5.90
5'6"	5.44	5.56	5.43	5.57	5.41	5.60	5.37	5.64
5'3"	5.20	5.30	5.19	5.31	5.17	5.34	5.13	5.37
5'	4.95	5.05	4.95	5.05	4.93	5.08	4.90	5.11
4'11"	4.87	4.96	4.87	4.97	4.84	4.99	4.82	5.02
4'10"	4.79	4.88	4.78	4.88	4.76	4.90	4.74	4.94
4'9"	4.71	4.79	4.70	4.80	4.68	4.82	4.66	4.85
4'8"	4.63	4.71	4.62	4.71	4.60	4.73	4.58	4.76
4'7"	4.55	4.62	4.54	4.63	4.52	4.65	4.50	4.67
4'6"	4.46	4.54	4.46	4.54	4.44	4.56	4.42	4.59
4'5"	4.38	4.45	4.38	4.46	4.36	4.47	4.34	4.50
4'4"	4.30	4.37	4.29	4.37	4.28	4.39	4.26	4.41
4'3"	4.22	4.28	4.21	4.29	4.20	4.30	4.18	4.33
4'2"	4.14	4.20	4.13	4.20	4.12	4.22	4.10	4.24
4'1"	4.05	4.11	4.05	4.12	4.04	4.13	4.02	4.15
4'	3.97	4.03	3.97	4.03	3.95	4.05	3.94	4.07
3'11"	3.89	3.94	3.89	3.95	3.87	3.96	3.86	3.98
3'10"	3.81	3.86	3.80	3.86	3.79	3.88	3.78	3.89
3'9"	3.73	3.77	3.72	3.78	3.71	3.79	3.70	3.81
3'8"	3.64	3.69	3.64	3.69	3.63	3.70	3.61	3.72
3'7"	3.56	3.60	3.56	3.61	3.55	3.62	3.53	3.63
3'6"	3.48	3.52	3.48	3.52	3.47	3.53	3.45	3.55
3'5"	3.40	3.44	3.39	3.44	3.39	3.45	3.37	3.46
3'4"	3.32	3.35	3.31	3.35	3.30	3.36	3.29	3.38

T8		T11		T16		T22		T32	
131.67		93.27		66.07		46.85		33.26	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
63.04	1330.45	52.74	∞	42.85	∞	33.90	∞	26.22	∞
41.44	109.28	36.76	165.94	31.70	631.81	26.56	∞	21.64	∞
36.45	79.93	32.79	106.42	28.72	201.24	24.45	∞	20.23	∞
30.87	56.98	28.21	69.19	25.16	99.52	21.84	263.72	18.42	∞
24.59	38.54	22.89	43.71	20.86	54.01	18.54	81.21	16.03	286.73
21.15	30.61	19.89	33.76	18.34	39.55	16.54	52.27	14.53	96.45
17.48	23.39	16.62	25.17	15.54	28.21	14.24	34.07	12.74	48.34
16.72	22.03	15.93	23.59	14.94	26.23	13.73	31.21	12.34	42.73
15.95	20.68	15.23	22.05	14.32	24.34	13.21	28.54	11.92	37.85
15.16	19.36	14.51	20.55	13.69	22.52	12.68	26.06	11.48	33.57
14.37	18.07	13.79	19.09	13.04	20.77	12.12	23.73	11.03	29.77
13.56	16.79	13.05	17.67	12.38	19.09	11.55	21.55	10.56	26.40
12.74	15.54	12.29	16.29	11.70	17.48	10.96	19.51	10.07	23.37
11.92	14.31	11.52	14.94	11.01	15.93	10.35	17.58	9.56	20.63
11.08	13.10	10.74	13.62	10.29	14.43	9.72	15.76	9.02	18.16
10.23	11.91	9.94	12.33	9.56	12.99	9.07	14.05	8.46	15.90
9.36	10.74	9.12	11.08	8.80	11.60	8.39	12.43	7.87	13.84
8.93	10.16	8.71	10.46	8.42	10.92	8.04	11.65	7.57	12.87
8.49	9.58	8.29	9.85	8.03	10.25	7.69	10.89	7.26	11.94
8.04	9.02	7.87	9.25	7.64	9.60	7.33	10.15	6.94	11.05
7.60	8.45	7.44	8.65	7.24	8.96	6.96	9.43	6.61	10.20
7.15	7.89	7.01	8.07	6.83	8.33	6.59	8.73	6.28	9.38
6.70	7.34	6.58	7.48	6.42	7.71	6.21	8.05	5.93	8.59
6.24	6.78	6.14	6.91	6.00	7.10	5.82	7.38	5.58	7.82
5.78	6.24	5.70	6.34	5.58	6.50	5.42	6.73	5.22	7.09
5.55	5.97	5.47	6.06	5.37	6.20	5.22	6.41	5.03	6.73
5.32	5.70	5.25	5.78	5.15	5.91	5.02	6.09	4.85	6.38
5.09	5.43	5.02	5.50	4.93	5.61	4.81	5.78	4.66	6.04
4.85	5.16	4.80	5.23	4.72	5.33	4.61	5.47	4.46	5.70
4.78	5.07	4.72	5.13	4.64	5.23	4.54	5.37	4.40	5.59
4.70	4.98	4.64	5.04	4.57	5.13	4.47	5.27	4.33	5.48
4.62	4.89	4.57	4.95	4.50	5.04	4.40	5.17	4.27	5.37
4.54	4.80	4.49	4.86	4.42	4.94	4.33	5.07	4.20	5.26
4.46	4.71	4.41	4.77	4.35	4.85	4.26	4.97	4.14	5.15
4.38	4.62	4.34	4.68	4.27	4.75	4.19	4.87	4.07	5.04
4.31	4.53	4.26	4.59	4.20	4.66	4.12	4.77	4.01	4.94
4.23	4.45	4.18	4.49	4.13	4.57	4.05	4.67	3.94	4.83
4.15	4.36	4.11	4.40	4.05	4.47	3.97	4.57	3.87	4.72
4.07	4.27	4.03	4.31	3.98	4.38	3.90	4.47	3.81	4.62
3.99	4.18	3.95	4.22	3.90	4.29	3.83	4.38	3.74	4.51
3.91	4.09	3.88	4.13	3.83	4.19	3.76	4.28	3.67	4.41
3.83	4.01	3.80	4.04	3.75	4.10	3.69	4.18	3.60	4.30
3.75	3.92	3.72	3.95	3.68	4.01	3.62	4.08	3.53	4.20
3.67	3.83	3.64	3.86	3.60	3.91	3.54	3.99	3.46	4.10
3.59	3.74	3.56	3.78	3.52	3.82	3.47	3.89	3.39	3.99
3.51	3.66	3.49	3.69	3.45	3.73	3.40	3.80	3.33	3.89
3.43	3.57	3.41	3.60	3.37	3.64	3.32	3.70	3.26	3.79
3.36	3.48	3.33	3.51	3.30	3.55	3.25	3.61	3.19	3.69
3.28	3.39	3.25	3.42	3.22	3.46	3.18	3.51	3.11	3.59

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=75 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	578.58		494.60		349.81		247.47	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	99.53	151.13	96.73	158.10	89.54	182.10	81.03	231.89
60'	54.45	66.82	53.61	68.14	51.34	72.21	48.45	78.87
50'	46.10	54.63	45.49	55.51	43.86	58.17	41.74	62.40
40'	37.47	42.90	37.08	43.43	35.99	45.03	34.55	47.51
30'	28.57	31.59	28.34	31.87	27.70	32.72	26.85	34.00
25'	24.00	26.08	23.84	26.28	23.39	26.85	22.79	27.69
20'	19.36	20.68	19.26	20.80	18.97	21.15	18.57	21.67
19'	18.43	19.61	18.33	19.72	18.07	20.03	17.71	20.50
18'	17.49	18.55	17.40	18.64	17.17	18.92	16.84	19.33
17'	16.54	17.48	16.47	17.57	16.26	17.82	15.97	18.18
16'	15.60	16.43	15.53	16.50	15.34	16.72	15.09	17.04
15'	14.65	15.37	14.59	15.44	14.42	15.63	14.20	15.90
14'	13.69	14.32	13.64	14.38	13.50	14.54	13.30	14.78
13'	12.74	13.28	12.69	13.32	12.57	13.46	12.40	13.66
12'	11.78	12.23	11.74	12.27	11.63	12.39	11.49	12.56
11'	10.81	11.19	10.78	11.23	10.69	11.32	10.57	11.47
10'	9.85	10.16	9.82	10.19	9.75	10.26	9.65	10.38
9'6"	9.36	9.64	9.34	9.67	9.27	9.74	9.18	9.84
9'	8.88	9.13	8.86	9.15	8.80	9.21	8.72	9.30
8'6"	8.39	8.61	8.37	8.63	8.32	8.69	8.25	8.77
8'	7.90	8.10	7.89	8.12	7.84	8.16	7.78	8.23
7'6"	7.42	7.59	7.40	7.60	7.36	7.64	7.31	7.70
7'	6.93	7.07	6.92	7.09	6.88	7.12	6.83	7.17
6'6"	6.44	6.56	6.43	6.57	6.40	6.60	6.36	6.65
6'	5.95	6.05	5.94	6.06	5.92	6.09	5.88	6.12
5'9"	5.70	5.80	5.70	5.81	5.67	5.83	5.64	5.86
5'6"	5.46	5.54	5.45	5.55	5.43	5.57	5.40	5.60
5'3"	5.21	5.29	5.21	5.30	5.19	5.31	5.16	5.34
5'	4.97	5.03	4.96	5.04	4.94	5.06	4.92	5.08
4'11"	4.88	4.95	4.88	4.96	4.86	4.97	4.84	5.00
4'10"	4.80	4.87	4.80	4.87	4.78	4.89	4.76	4.91
4'9"	4.72	4.78	4.71	4.79	4.70	4.80	4.68	4.82
4'8"	4.64	4.70	4.63	4.70	4.62	4.72	4.60	4.74
4'7"	4.55	4.61	4.55	4.62	4.54	4.63	4.52	4.65
4'6"	4.47	4.53	4.47	4.53	4.46	4.55	4.44	4.57
4'5"	4.39	4.44	4.39	4.45	4.37	4.46	4.36	4.48
4'4"	4.31	4.36	4.30	4.36	4.29	4.38	4.28	4.39
4'3"	4.23	4.27	4.22	4.28	4.21	4.29	4.19	4.31
4'2"	4.14	4.19	4.14	4.19	4.13	4.21	4.11	4.22
4'1"	4.06	4.11	4.06	4.11	4.05	4.12	4.03	4.14
4'	3.98	4.02	3.98	4.02	3.97	4.03	3.95	4.05
3'11"	3.90	3.94	3.89	3.94	3.88	3.95	3.87	3.96
3'10"	3.81	3.85	3.81	3.86	3.80	3.86	3.79	3.88
3'9"	3.73	3.77	3.73	3.77	3.72	3.78	3.71	3.79
3'8"	3.65	3.68	3.65	3.69	3.64	3.70	3.63	3.71
3'7"	3.57	3.60	3.56	3.60	3.56	3.61	3.55	3.62
3'6"	3.48	3.52	3.48	3.52	3.47	3.53	3.46	3.54
3'5"	3.40	3.43	3.40	3.43	3.39	3.44	3.38	3.45
3'4"	3.32	3.35	3.32	3.35	3.31	3.36	3.30	3.37

T8		T11		T16		T22		T32	
175.12		123.99		87.77		62.18		44.10	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
71.45	378.36	61.23	3565.42	50.94	∞	41.18	∞	32.45	∞
44.88	90.71	40.66	115.18	35.88	186.76	30.79	1575.82	25.66	∞
39.07	69.56	35.84	83.04	32.09	114.60	27.96	248.60	23.68	∞
32.71	51.53	30.43	58.54	27.69	72.55	24.58	109.84	21.23	406.76
25.74	35.99	24.31	39.24	22.55	45.02	20.46	56.90	18.10	91.03
21.99	28.99	20.95	31.05	19.63	34.53	18.04	41.07	16.19	56.16
18.04	22.45	17.34	23.65	16.44	25.59	15.32	28.98	13.98	35.67
17.23	21.19	16.59	22.25	15.77	23.96	14.73	26.89	13.49	32.54
16.41	19.95	15.83	20.88	15.08	22.38	14.14	24.90	12.99	29.65
15.58	18.72	15.06	19.54	14.38	20.83	13.52	23.00	12.47	26.98
14.74	17.51	14.27	18.22	13.66	19.34	12.89	21.18	11.94	24.49
13.89	16.31	13.48	16.92	12.94	17.88	12.24	19.44	11.38	22.18
13.03	15.13	12.67	15.65	12.19	16.46	11.58	17.77	10.81	20.02
12.17	13.96	11.85	14.40	11.44	15.08	10.90	16.16	10.22	17.99
11.29	12.81	11.02	13.18	10.66	13.74	10.20	14.62	9.60	16.09
10.41	11.67	10.18	11.97	9.87	12.43	9.48	13.14	8.97	14.31
9.51	10.54	9.32	10.79	9.07	11.16	8.73	11.72	8.30	12.63
9.06	9.99	8.89	10.20	8.66	10.53	8.36	11.03	7.96	11.82
8.61	9.43	8.45	9.63	8.25	9.91	7.97	10.35	7.62	11.04
8.15	8.88	8.01	9.05	7.83	9.30	7.58	9.68	7.26	10.28
7.69	8.34	7.57	8.48	7.41	8.70	7.19	9.03	6.90	9.55
7.23	7.79	7.13	7.92	6.98	8.11	6.79	8.39	6.54	8.83
6.77	7.25	6.68	7.36	6.55	7.52	6.38	7.76	6.16	8.13
6.30	6.71	6.22	6.80	6.12	6.94	5.97	7.14	5.78	7.45
5.83	6.18	5.77	6.25	5.68	6.37	5.55	6.53	5.39	6.79
5.60	5.91	5.54	5.98	5.45	6.08	5.34	6.23	5.19	6.46
5.36	5.65	5.31	5.71	5.23	5.80	5.13	5.94	4.99	6.14
5.13	5.38	5.08	5.44	5.01	5.52	4.91	5.64	4.79	5.82
4.89	5.12	4.84	5.17	4.78	5.24	4.70	5.35	4.58	5.51
4.81	5.03	4.77	5.08	4.71	5.15	4.62	5.25	4.51	5.41
4.73	4.94	4.69	4.99	4.63	5.06	4.55	5.16	4.45	5.30
4.65	4.85	4.61	4.90	4.55	4.96	4.48	5.06	4.38	5.20
4.57	4.77	4.53	4.81	4.48	4.87	4.41	4.96	4.31	5.10
4.49	4.68	4.45	4.72	4.40	4.78	4.33	4.87	4.24	5.00
4.41	4.59	4.38	4.63	4.33	4.69	4.26	4.77	4.17	4.90
4.33	4.51	4.30	4.54	4.25	4.60	4.19	4.68	4.10	4.80
4.25	4.42	4.22	4.45	4.17	4.51	4.11	4.58	4.03	4.70
4.17	4.33	4.14	4.37	4.10	4.42	4.04	4.49	3.96	4.60
4.09	4.24	4.06	4.28	4.02	4.33	3.96	4.39	3.89	4.50
4.01	4.16	3.98	4.19	3.94	4.23	3.89	4.30	3.81	4.40
3.93	4.07	3.90	4.10	3.87	4.14	3.81	4.21	3.74	4.30
3.85	3.98	3.83	4.01	3.79	4.05	3.74	4.11	3.67	4.20
3.77	3.90	3.75	3.92	3.71	3.96	3.67	4.02	3.60	4.10
3.69	3.81	3.67	3.84	3.64	3.87	3.59	3.93	3.53	4.01
3.61	3.72	3.59	3.75	3.56	3.78	3.51	3.83	3.46	3.91
3.53	3.64	3.51	3.66	3.48	3.69	3.44	3.74	3.38	3.81
3.45	3.55	3.43	3.57	3.40	3.60	3.36	3.65	3.31	3.72
3.37	3.47	3.35	3.49	3.32	3.52	3.29	3.56	3.24	3.62
3.29	3.38	3.27	3.40	3.25	3.43	3.21	3.47	3.16	3.53

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=85 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	743.01		635.14		449.16		317.72	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	103.43	142.92	101.06	147.72	94.86	163.37	87.30	192.17
60'	55.58	65.18	54.90	66.16	53.03	69.10	50.60	73.73
50'	46.91	53.54	46.42	54.19	45.08	56.14	43.32	59.15
40'	38.00	42.22	37.68	42.62	36.80	43.81	35.62	45.62
30'	28.87	31.22	28.69	31.44	28.18	32.08	27.49	33.02
25'	24.22	25.84	24.09	25.98	23.73	26.42	23.24	27.05
20'	19.50	20.53	19.42	20.62	19.19	20.89	18.87	21.28
19'	18.55	19.47	18.48	19.56	18.27	19.80	17.98	20.15
18'	17.60	18.42	17.53	18.50	17.34	18.71	17.08	19.02
17'	16.64	17.38	16.58	17.44	16.41	17.63	16.18	17.91
16'	15.68	16.33	15.63	16.39	15.48	16.55	15.28	16.80
15'	14.72	15.29	14.68	15.34	14.55	15.48	14.37	15.69
14'	13.76	14.25	13.72	14.29	13.61	14.42	13.45	14.60
13'	12.79	13.21	12.76	13.25	12.66	13.36	12.53	13.51
12'	11.82	12.18	11.80	12.21	11.71	12.30	11.60	12.43
11'	10.85	11.15	10.83	11.18	10.76	11.25	10.66	11.36
10'	9.88	10.12	9.86	10.14	9.80	10.21	9.72	10.29
9'6"	9.39	9.61	9.37	9.63	9.32	9.68	9.25	9.76
9'	8.90	9.10	8.89	9.12	8.84	9.16	8.78	9.23
8'6"	8.41	8.59	8.40	8.60	8.36	8.65	8.30	8.71
8'	7.93	8.08	7.91	8.09	7.88	8.13	7.83	8.18
7'6"	7.43	7.57	7.42	7.58	7.39	7.61	7.35	7.66
7'	6.94	7.06	6.93	7.07	6.91	7.10	6.87	7.14
6'6"	6.45	6.55	6.44	6.56	6.42	6.58	6.39	6.62
6'	5.96	6.04	5.95	6.05	5.93	6.07	5.91	6.10
5'9"	5.71	5.79	5.71	5.79	5.69	5.81	5.66	5.84
5'6"	5.47	5.53	5.46	5.54	5.45	5.56	5.42	5.58
5'3"	5.22	5.28	5.21	5.29	5.20	5.30	5.18	5.32
5'	4.97	5.03	4.97	5.03	4.96	5.05	4.94	5.06
4'11"	4.89	4.94	4.89	4.95	4.87	4.96	4.86	4.98
4'10"	4.81	4.86	4.80	4.86	4.79	4.88	4.78	4.89
4'9"	4.73	4.77	4.72	4.78	4.71	4.79	4.69	4.81
4'8"	4.64	4.69	4.64	4.69	4.63	4.71	4.61	4.72
4'7"	4.56	4.61	4.56	4.61	4.55	4.62	4.53	4.64
4'6"	4.48	4.52	4.48	4.53	4.46	4.54	4.45	4.55
4'5"	4.40	4.44	4.39	4.44	4.38	4.45	4.37	4.47
4'4"	4.31	4.35	4.31	4.36	4.30	4.37	4.29	4.38
4'3"	4.23	4.27	4.23	4.27	4.22	4.28	4.21	4.29
4'2"	4.15	4.18	4.15	4.19	4.14	4.20	4.13	4.21
4'1"	4.07	4.10	4.06	4.10	4.06	4.11	4.04	4.12
4'	3.98	4.02	3.98	4.02	3.97	4.03	3.96	4.04
3'11"	3.90	3.93	3.90	3.93	3.89	3.94	3.88	3.95
3'10"	3.82	3.85	3.82	3.85	3.81	3.86	3.80	3.87
3'9"	3.74	3.76	3.73	3.77	3.73	3.77	3.72	3.78
3'8"	3.65	3.68	3.65	3.68	3.64	3.69	3.64	3.70
3'7"	3.57	3.60	3.57	3.60	3.56	3.60	3.55	3.61
3'6"	3.49	3.51	3.49	3.51	3.48	3.52	3.47	3.53
3'5"	3.41	3.43	3.40	3.43	3.40	3.44	3.39	3.44
3'4"	3.32	3.34	3.32	3.35	3.32	3.35	3.31	3.36

T8		T11		T16		T22		T32	
224.78		159.12		112.59		79.72		56.50	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
78.46	256.07	68.65	483.49	58.34	∞	48.14	∞	38.63	∞
47.52	81.47	43.77	95.66	39.37	127.11	34.48	237.94	29.34	∞
41.05	64.01	38.22	72.43	34.83	89.05	30.96	131.97	26.77	417.18
34.08	48.44	32.12	53.08	29.71	61.45	26.86	79.12	23.66	133.60
26.57	34.47	25.37	36.73	23.85	40.52	21.99	47.45	19.82	62.64
22.59	28.00	21.72	29.47	20.60	31.84	19.21	35.94	17.54	43.96
18.44	21.86	17.86	22.73	17.11	24.10	16.15	26.35	14.96	30.37
17.59	20.66	17.07	21.44	16.38	22.65	15.50	24.62	14.40	28.09
16.73	19.48	16.26	20.17	15.64	21.23	14.83	22.95	13.83	25.92
15.87	18.31	15.44	18.91	14.88	19.84	14.15	21.33	13.24	23.87
15.00	17.15	14.62	17.68	14.12	18.48	13.46	19.76	12.64	21.91
14.12	16.00	13.78	16.46	13.34	17.15	12.76	18.24	12.02	20.05
13.23	14.86	12.94	15.25	12.55	15.85	12.03	16.77	11.38	18.27
12.34	13.74	12.09	14.07	11.75	14.57	11.30	15.34	10.72	16.58
11.44	12.62	11.22	12.90	10.93	13.31	10.54	13.95	10.04	14.96
10.53	11.52	10.35	11.74	10.10	12.08	9.77	12.60	9.34	13.41
9.61	10.42	9.46	10.60	9.26	10.88	8.98	11.29	8.62	11.93
9.15	9.88	9.02	10.04	8.83	10.28	8.58	10.65	8.25	11.22
8.69	9.33	8.57	9.48	8.40	9.70	8.18	10.02	7.88	10.52
8.22	8.80	8.12	8.92	7.97	9.11	7.77	9.40	7.50	9.83
7.76	8.26	7.66	8.37	7.53	8.54	7.35	8.78	7.11	9.15
7.29	7.73	7.20	7.82	7.09	7.97	6.93	8.18	6.72	8.50
6.82	7.19	6.74	7.28	6.64	7.40	6.51	7.58	6.32	7.85
6.34	6.66	6.28	6.74	6.20	6.84	6.08	6.99	5.92	7.22
5.87	6.14	5.82	6.20	5.74	6.28	5.64	6.41	5.51	6.60
5.63	5.88	5.58	5.93	5.52	6.01	5.42	6.12	5.30	6.29
5.39	5.61	5.35	5.66	5.29	5.73	5.20	5.84	5.09	5.99
5.15	5.35	5.11	5.40	5.06	5.46	4.98	5.55	4.88	5.69
4.91	5.09	4.88	5.13	4.83	5.19	4.76	5.27	4.67	5.39
4.83	5.00	4.80	5.04	4.75	5.10	4.68	5.18	4.60	5.29
4.75	4.92	4.72	4.95	4.67	5.01	4.61	5.08	4.52	5.19
4.67	4.83	4.64	4.87	4.60	4.92	4.53	4.99	4.45	5.10
4.59	4.75	4.56	4.78	4.52	4.83	4.46	4.90	4.38	5.00
4.51	4.66	4.48	4.69	4.44	4.74	4.38	4.80	4.31	4.90
4.43	4.57	4.40	4.60	4.36	4.65	4.31	4.71	4.23	4.80
4.35	4.49	4.32	4.52	4.29	4.56	4.23	4.62	4.16	4.71
4.27	4.40	4.24	4.43	4.21	4.47	4.16	4.53	4.09	4.61
4.19	4.31	4.16	4.34	4.13	4.38	4.08	4.43	4.02	4.52
4.11	4.23	4.08	4.25	4.05	4.29	4.01	4.34	3.94	4.42
4.03	4.14	4.00	4.17	3.97	4.20	3.93	4.25	3.87	4.33
3.95	4.05	3.93	4.08	3.89	4.11	3.85	4.16	3.80	4.23
3.87	3.97	3.85	3.99	3.82	4.02	3.78	4.07	3.72	4.14
3.78	3.88	3.77	3.90	3.74	3.93	3.70	3.98	3.65	4.04
3.70	3.80	3.69	3.82	3.66	3.85	3.62	3.89	3.57	3.95
3.62	3.71	3.61	3.73	3.58	3.76	3.55	3.80	3.50	3.85
3.54	3.63	3.53	3.64	3.50	3.67	3.47	3.71	3.42	3.76
3.46	3.54	3.44	3.56	3.42	3.58	3.39	3.62	3.35	3.67
3.38	3.45	3.36	3.47	3.34	3.49	3.31	3.53	3.27	3.57
3.30	3.37	3.28	3.38	3.26	3.41	3.24	3.44	3.20	3.48

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=100 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	1028.22		878.91		621.51		439.57	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	107.55	135.72	105.69	138.82	100.71	148.47	94.43	164.67
60'	56.74	63.66	56.22	64.32	54.79	66.31	52.90	69.33
50'	47.72	52.51	47.36	52.96	46.34	54.29	44.98	56.29
40'	38.54	41.58	38.30	41.86	37.64	42.68	36.74	43.91
30'	29.18	30.87	29.04	31.03	28.66	31.47	28.14	32.13
25'	24.43	25.60	24.33	25.70	24.07	26.01	23.70	26.45
20'	19.64	20.38	19.58	20.44	19.41	20.63	19.17	20.91
19'	18.67	19.34	18.62	19.40	18.46	19.57	18.25	19.81
18'	17.71	18.30	17.66	18.36	17.52	18.51	17.33	18.73
17'	16.74	17.27	16.70	17.32	16.57	17.45	16.40	17.65
16'	15.77	16.24	15.73	16.28	15.62	16.40	15.47	16.57
15'	14.80	15.21	14.76	15.24	14.67	15.35	14.54	15.50
14'	13.82	14.18	13.80	14.21	13.71	14.30	13.60	14.43
13'	12.85	13.15	12.82	13.18	12.75	13.26	12.65	13.37
12'	11.87	12.13	11.85	12.15	11.79	12.22	11.71	12.31
11'	10.89	11.11	10.88	11.13	10.83	11.18	10.75	11.26
10'	9.91	10.09	9.90	10.10	9.86	10.15	9.80	10.21
9'6"	9.42	9.58	9.41	9.59	9.37	9.63	9.32	9.69
9'	8.93	9.07	8.92	9.08	8.88	9.12	8.84	9.17
8'6"	8.44	8.56	8.43	8.57	8.40	8.60	8.36	8.65
8'	7.95	8.06	7.94	8.06	7.91	8.09	7.87	8.13
7'6"	7.45	7.55	7.44	7.56	7.42	7.58	7.39	7.61
7'	6.96	7.04	6.95	7.05	6.93	7.07	6.91	7.10
6'6"	6.47	6.54	6.46	6.54	6.44	6.56	6.42	6.58
6'	5.97	6.03	5.97	6.03	5.95	6.05	5.93	6.07
5'9"	5.72	5.78	5.72	5.78	5.71	5.79	5.69	5.81
5'6"	5.48	5.52	5.47	5.53	5.46	5.54	5.44	5.56
5'3"	5.23	5.27	5.22	5.28	5.21	5.29	5.20	5.30
5'	4.98	5.02	4.98	5.02	4.97	5.03	4.95	5.05
4'11"	4.90	4.94	4.89	4.94	4.89	4.95	4.87	4.96
4'10"	4.82	4.85	4.81	4.85	4.80	4.86	4.79	4.88
4'9"	4.73	4.77	4.73	4.77	4.72	4.78	4.71	4.79
4'8"	4.65	4.68	4.65	4.69	4.64	4.69	4.63	4.71
4'7"	4.57	4.60	4.56	4.60	4.56	4.61	4.55	4.62
4'6"	4.48	4.52	4.48	4.52	4.47	4.53	4.46	4.54
4'5"	4.40	4.43	4.40	4.43	4.39	4.44	4.38	4.45
4'4"	4.32	4.35	4.32	4.35	4.31	4.36	4.30	4.37
4'3"	4.24	4.26	4.23	4.27	4.23	4.27	4.22	4.28
4'2"	4.15	4.18	4.15	4.18	4.15	4.19	4.14	4.20
4'1"	4.07	4.10	4.07	4.10	4.06	4.10	4.05	4.11
4'	3.99	4.01	3.99	4.01	3.98	4.02	3.97	4.03
3'11"	3.91	3.93	3.90	3.93	3.90	3.94	3.89	3.94
3'10"	3.82	3.84	3.82	3.85	3.82	3.85	3.81	3.86
3'9"	3.74	3.76	3.74	3.76	3.73	3.77	3.73	3.77
3'8"	3.66	3.68	3.66	3.68	3.65	3.68	3.64	3.69
3'7"	3.57	3.59	3.57	3.59	3.57	3.60	3.56	3.60
3'6"	3.49	3.51	3.49	3.51	3.49	3.51	3.48	3.52
3'5"	3.41	3.42	3.41	3.43	3.40	3.43	3.40	3.44
3'4"	3.33	3.34	3.32	3.34	3.32	3.35	3.32	3.35

T8		T11		T16		T22		T32	
310.94		220.06		155.66		110.17		78.02	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
86.78	194.73	77.87	262.49	68.00	518.34	57.68	∞	47.51	∞
50.43	74.10	47.31	82.10	43.50	96.95	39.07	130.33	34.16	254.42
43.19	59.39	40.89	64.40	38.02	73.16	34.60	90.62	30.70	136.88
35.54	45.76	33.97	48.66	31.98	53.48	29.53	62.19	26.66	80.86
27.44	33.10	26.50	34.58	25.28	36.92	23.74	40.84	21.86	48.07
23.21	27.10	22.54	28.08	21.66	29.59	20.52	32.04	19.11	36.29
18.85	21.31	18.41	21.90	17.82	22.80	17.05	24.21	16.08	26.54
17.96	20.17	17.56	20.70	17.03	21.50	16.33	22.75	15.43	24.79
17.06	19.05	16.71	19.52	16.22	20.22	15.59	21.32	14.77	23.09
16.17	17.93	15.84	18.34	15.41	18.96	14.84	19.92	14.10	21.45
15.26	16.82	14.98	17.18	14.59	17.72	14.08	18.55	13.41	19.87
14.35	15.71	14.10	16.03	13.76	16.50	13.30	17.21	12.71	18.33
13.44	14.61	13.22	14.89	12.92	15.29	12.52	15.89	11.99	16.84
12.52	13.53	12.33	13.76	12.07	14.10	11.72	14.61	11.26	15.40
11.59	12.44	11.43	12.64	11.21	12.92	10.91	13.35	10.51	14.00
10.66	11.37	10.52	11.53	10.33	11.76	10.08	12.11	9.75	12.64
9.72	10.30	9.61	10.43	9.45	10.62	9.24	10.90	8.96	11.33
9.25	9.77	9.14	9.89	9.01	10.05	8.82	10.30	8.56	10.68
8.77	9.24	8.68	9.34	8.56	9.49	8.39	9.71	8.16	10.05
8.30	8.71	8.22	8.80	8.11	8.94	7.96	9.13	7.75	9.42
7.82	8.19	7.75	8.27	7.65	8.38	7.52	8.55	7.34	8.80
7.35	7.66	7.28	7.73	7.20	7.83	7.08	7.98	6.92	8.19
6.87	7.14	6.81	7.20	6.74	7.28	6.64	7.41	6.50	7.59
6.39	6.62	6.34	6.67	6.28	6.74	6.19	6.85	6.07	7.00
5.90	6.10	5.87	6.14	5.81	6.20	5.74	6.29	5.64	6.42
5.66	5.84	5.63	5.88	5.58	5.93	5.51	6.01	5.42	6.13
5.42	5.58	5.39	5.62	5.34	5.67	5.28	5.74	5.20	5.84
5.18	5.32	5.15	5.35	5.11	5.40	5.05	5.46	4.98	5.56
4.94	5.07	4.91	5.09	4.87	5.13	4.82	5.19	4.75	5.28
4.85	4.98	4.83	5.01	4.79	5.05	4.75	5.10	4.68	5.18
4.77	4.89	4.75	4.92	4.72	4.96	4.67	5.01	4.60	5.09
4.69	4.81	4.67	4.83	4.64	4.87	4.59	4.92	4.53	5.00
4.61	4.72	4.59	4.75	4.56	4.78	4.51	4.83	4.45	4.90
4.53	4.64	4.51	4.66	4.48	4.69	4.44	4.74	4.38	4.81
4.45	4.55	4.43	4.57	4.40	4.61	4.36	4.65	4.30	4.72
4.37	4.47	4.35	4.49	4.32	4.52	4.28	4.56	4.23	4.62
4.29	4.38	4.27	4.40	4.24	4.43	4.20	4.47	4.15	4.53
4.21	4.30	4.19	4.31	4.16	4.34	4.13	4.38	4.08	4.44
4.12	4.21	4.11	4.23	4.08	4.26	4.05	4.29	4.00	4.35
4.04	4.13	4.03	4.14	4.00	4.17	3.97	4.20	3.93	4.26
3.96	4.04	3.95	4.06	3.92	4.08	3.89	4.11	3.85	4.16
3.88	3.95	3.86	3.97	3.84	3.99	3.81	4.03	3.77	4.07
3.80	3.87	3.78	3.88	3.76	3.91	3.74	3.94	3.70	3.98
3.72	3.78	3.70	3.80	3.68	3.82	3.66	3.85	3.62	3.89
3.63	3.70	3.62	3.71	3.60	3.73	3.58	3.76	3.54	3.80
3.55	3.61	3.54	3.63	3.52	3.65	3.50	3.67	3.47	3.71
3.47	3.53	3.46	3.54	3.44	3.56	3.42	3.58	3.39	3.62
3.39	3.44	3.38	3.46	3.36	3.47	3.34	3.50	3.31	3.53
3.31	3.36	3.30	3.37	3.28	3.39	3.26	3.41	3.23	3.44

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=135 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(ft) 超焦距 (ft)	1761.65		1505.81		1064.73		752.98	
Object distance(ft) 物距 (ft)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
120'	112.41	128.70	111.21	130.30	107.94	135.11	103.62	142.55
60'	58.06	62.08	57.74	62.45	56.85	63.52	55.64	65.11
50'	48.65	51.43	48.42	51.68	47.80	52.41	46.94	53.48
40'	39.13	40.91	38.99	41.06	38.59	41.52	38.03	42.19
30'	29.51	30.50	29.43	30.59	29.20	30.84	28.89	31.20
25'	24.66	25.35	24.61	25.41	24.45	25.58	24.23	25.82
20'	19.79	20.22	19.75	20.26	19.65	20.36	19.51	20.52
19'	18.81	19.20	18.78	19.23	18.68	19.33	18.56	19.47
18'	17.83	18.18	17.80	18.21	17.72	18.29	17.60	18.42
17'	16.85	17.16	16.82	17.18	16.75	17.26	16.65	17.37
16'	15.86	16.14	15.84	16.16	15.78	16.23	15.69	16.33
15'	14.88	15.12	14.86	15.14	14.81	15.20	14.73	15.28
14'	13.90	14.10	13.88	14.12	13.83	14.17	13.76	14.25
13'	12.91	13.09	12.90	13.10	12.86	13.15	12.80	13.21
12'	11.93	12.08	11.91	12.09	11.88	12.13	11.83	12.18
11'	10.94	11.06	10.93	11.07	10.90	11.10	10.86	11.15
10'	9.95	10.05	9.94	10.06	9.92	10.09	9.88	10.12
9'6"	9.45	9.55	9.45	9.55	9.42	9.58	9.39	9.61
9'	8.96	9.04	8.95	9.05	8.93	9.07	8.91	9.10
8'6"	8.46	8.54	8.46	8.54	8.44	8.56	8.42	8.59
8'	7.97	8.03	7.96	8.04	7.95	8.05	7.93	8.08
7'6"	7.47	7.53	7.47	7.53	7.45	7.55	7.44	7.57
7'	6.98	7.02	6.97	7.03	6.96	7.04	6.94	7.06
6'6"	6.48	6.52	6.48	6.52	6.47	6.53	6.45	6.55
6'	5.98	6.02	5.98	6.02	5.97	6.03	5.96	6.04
5'9"	5.73	5.77	5.73	5.77	5.72	5.78	5.71	5.79
5'6"	5.49	5.51	5.48	5.52	5.48	5.52	5.47	5.53
5'3"	5.24	5.26	5.24	5.26	5.23	5.27	5.22	5.28
5'	4.99	5.01	4.99	5.01	4.98	5.02	4.97	5.03
4'11"	4.91	4.93	4.90	4.93	4.90	4.93	4.89	4.94
4'10"	4.82	4.84	4.82	4.85	4.82	4.85	4.81	4.86
4'9"	4.74	4.76	4.74	4.76	4.73	4.77	4.73	4.77
4'8"	4.66	4.68	4.66	4.68	4.65	4.68	4.64	4.69
4'7"	4.57	4.59	4.57	4.59	4.57	4.60	4.56	4.61
4'6"	4.49	4.51	4.49	4.51	4.49	4.51	4.48	4.52
4'5"	4.41	4.43	4.41	4.43	4.40	4.43	4.40	4.44
4'4"	4.33	4.34	4.32	4.34	4.32	4.35	4.31	4.35
4'3"	4.24	4.26	4.24	4.26	4.24	4.26	4.23	4.27
4'2"	4.16	4.17	4.16	4.18	4.15	4.18	4.15	4.18
4'1"	4.08	4.09	4.07	4.09	4.07	4.10	4.07	4.10
4'	3.99	4.01	3.99	4.01	3.99	4.01	3.98	4.02
3'11"	3.91	3.92	3.91	3.92	3.91	3.93	3.90	3.93
3'10"	3.83	3.84	3.83	3.84	3.82	3.84	3.82	3.85
3'9"	3.74	3.76	3.74	3.76	3.74	3.76	3.74	3.76
3'8"	3.66	3.67	3.66	3.67	3.66	3.68	3.65	3.68
3'7"	3.58	3.59	3.58	3.59	3.57	3.59	3.57	3.60
3'6"	3.49	3.51	3.49	3.51	3.49	3.51	3.49	3.51
3'5"	3.41	3.42	3.41	3.42	3.41	3.42	3.41	3.43
3'4"	3.33	3.34	3.33	3.34	3.33	3.34	3.32	3.34

T8		T11		T16		T22		T32	
532.57		376.83		266.50		188.54		133.46	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
98.08	154.60	91.20	175.57	82.96	217.37	73.57	327.85	63.44	1168.60
54.02	67.49	51.88	71.17	49.12	77.13	45.70	87.51	41.61	108.09
45.79	55.08	44.25	57.49	42.23	61.31	39.69	67.66	36.57	79.30
37.27	43.17	36.25	44.63	34.89	46.88	33.14	50.49	30.95	56.66
28.45	31.73	27.86	32.51	27.06	33.68	26.00	35.48	24.64	38.40
23.92	26.18	23.50	26.70	22.93	27.48	22.18	28.67	21.19	30.53
19.31	20.74	19.04	21.06	18.67	21.54	18.17	22.25	17.51	23.35
18.38	19.67	18.13	19.96	17.80	20.38	17.34	21.02	16.74	21.98
17.44	18.59	17.22	18.85	16.92	19.23	16.51	19.79	15.97	20.65
16.50	17.53	16.31	17.76	16.04	18.09	15.67	18.58	15.18	19.33
15.56	16.46	15.39	16.67	15.15	16.96	14.82	17.39	14.38	18.04
14.62	15.41	14.46	15.58	14.25	15.83	13.96	16.21	13.58	16.77
13.67	14.35	13.53	14.50	13.35	14.72	13.10	15.04	12.76	15.52
12.71	13.30	12.60	13.43	12.44	13.62	12.22	13.89	11.93	14.29
11.76	12.25	11.66	12.36	11.52	12.52	11.34	12.75	11.09	13.09
10.80	11.21	10.72	11.30	10.60	11.43	10.45	11.62	10.23	11.90
9.83	10.17	9.77	10.25	9.67	10.35	9.54	10.50	9.37	10.73
9.35	9.65	9.29	9.72	9.21	9.81	9.09	9.95	8.93	10.15
8.87	9.14	8.81	9.20	8.74	9.28	8.63	9.40	8.49	9.58
8.38	8.62	8.33	8.67	8.27	8.75	8.17	8.85	8.05	9.01
7.90	8.11	7.85	8.15	7.79	8.22	7.71	8.31	7.60	8.45
7.41	7.59	7.37	7.63	7.32	7.69	7.25	7.77	7.15	7.89
6.92	7.08	6.89	7.11	6.85	7.16	6.78	7.23	6.70	7.33
6.43	6.57	6.41	6.60	6.37	6.64	6.32	6.70	6.24	6.78
5.94	6.06	5.92	6.08	5.89	6.12	5.84	6.16	5.78	6.24
5.70	5.80	5.68	5.82	5.65	5.85	5.61	5.90	5.55	5.96
5.45	5.55	5.43	5.57	5.41	5.60	5.37	5.64	5.32	5.69
5.21	5.29	5.19	5.31	5.17	5.34	5.13	5.37	5.09	5.42
4.96	5.04	4.95	5.05	4.93	5.08	4.90	5.11	4.85	5.16
4.88	4.95	4.87	4.97	4.85	4.99	4.82	5.02	4.78	5.07
4.80	4.87	4.78	4.88	4.76	4.90	4.74	4.93	4.70	4.98
4.72	4.78	4.70	4.80	4.68	4.82	4.66	4.85	4.62	4.89
4.63	4.70	4.62	4.71	4.60	4.73	4.58	4.76	4.54	4.80
4.55	4.61	4.54	4.63	4.52	4.65	4.50	4.67	4.46	4.71
4.47	4.53	4.46	4.54	4.44	4.56	4.42	4.59	4.38	4.62
4.39	4.45	4.38	4.46	4.36	4.47	4.34	4.50	4.31	4.53
4.31	4.36	4.30	4.37	4.28	4.39	4.26	4.41	4.23	4.45
4.22	4.28	4.21	4.29	4.20	4.30	4.18	4.33	4.15	4.36
4.14	4.19	4.13	4.20	4.12	4.22	4.10	4.24	4.07	4.27
4.06	4.11	4.05	4.12	4.04	4.13	4.02	4.15	3.99	4.18
3.98	4.02	3.97	4.03	3.96	4.05	3.94	4.07	3.91	4.09
3.90	3.94	3.89	3.95	3.87	3.96	3.86	3.98	3.83	4.01
3.81	3.85	3.80	3.86	3.79	3.87	3.78	3.89	3.75	3.92
3.73	3.77	3.72	3.78	3.71	3.79	3.70	3.81	3.67	3.83
3.65	3.69	3.64	3.69	3.63	3.70	3.62	3.72	3.59	3.74
3.57	3.60	3.56	3.61	3.55	3.62	3.53	3.63	3.51	3.66
3.48	3.52	3.48	3.52	3.47	3.53	3.45	3.55	3.44	3.57
3.40	3.43	3.39	3.44	3.39	3.45	3.37	3.46	3.36	3.48
3.32	3.35	3.31	3.35	3.30	3.36	3.29	3.38	3.28	3.39

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=45 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	64.22		54.92		38.88		27.54	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	24.73	105.47	23.23	146.28	19.80	∞	16.39	∞
20	15.31	28.89	14.73	31.26	13.28	40.82	11.67	72.10
15	12.21	19.47	11.84	20.51	10.89	24.20	9.79	32.52
10	8.69	11.78	8.50	12.15	8.01	13.34	7.40	15.50
9	7.93	10.41	7.77	10.70	7.36	11.61	6.85	13.20
8	7.15	9.09	7.02	9.31	6.68	9.98	6.26	11.13
7	6.34	7.81	6.24	7.97	5.98	8.46	5.64	9.27
6	5.51	6.58	5.44	6.69	5.24	7.03	4.98	7.58
5	4.66	5.39	4.61	5.47	4.46	5.69	4.28	6.03
4.5	4.23	4.81	4.18	4.87	4.07	5.04	3.91	5.31
4	3.78	4.24	3.75	4.29	3.66	4.42	3.53	4.62
3.5	3.34	3.68	3.31	3.72	3.24	3.81	3.14	3.96
3	2.88	3.13	2.86	3.15	2.81	3.22	2.74	3.33
2.8	2.70	2.91	2.68	2.93	2.63	2.99	2.57	3.08
2.6	2.51	2.70	2.50	2.71	2.46	2.76	2.40	2.84
2.4	2.33	2.48	2.31	2.49	2.28	2.54	2.23	2.60
2.2	2.14	2.27	2.13	2.28	2.10	2.31	2.06	2.36
2	1.95	2.05	1.94	2.06	1.92	2.09	1.89	2.13
1.9	1.85	1.95	1.85	1.96	1.83	1.98	1.80	2.02
1.8	1.76	1.84	1.75	1.85	1.73	1.87	1.71	1.90
1.7	1.66	1.74	1.66	1.74	1.64	1.76	1.62	1.79
1.6	1.57	1.63	1.56	1.64	1.55	1.65	1.53	1.68
1.5	1.47	1.53	1.47	1.53	1.46	1.55	1.44	1.57
1.4	1.38	1.42	1.37	1.43	1.36	1.44	1.35	1.46
1.35	1.33	1.37	1.33	1.38	1.32	1.39	1.30	1.40
1.3	1.28	1.32	1.28	1.32	1.27	1.33	1.26	1.35
1.25	1.23	1.27	1.23	1.27	1.22	1.28	1.21	1.29
1.2	1.18	1.22	1.18	1.22	1.17	1.23	1.16	1.24
1.18	1.16	1.20	1.16	1.20	1.15	1.21	1.14	1.22
1.16	1.15	1.18	1.14	1.18	1.14	1.19	1.13	1.20
1.14	1.13	1.15	1.12	1.16	1.12	1.16	1.11	1.17
1.12	1.11	1.13	1.10	1.14	1.10	1.14	1.09	1.15
1.1	1.09	1.11	1.08	1.12	1.08	1.12	1.07	1.13
1.08	1.07	1.09	1.07	1.10	1.06	1.10	1.05	1.11
1.06	1.05	1.07	1.05	1.07	1.04	1.08	1.03	1.09
1.04	1.03	1.05	1.03	1.05	1.02	1.06	1.01	1.07
1.02	1.01	1.03	1.01	1.03	1.00	1.04	0.99	1.05
1	0.99	1.01	0.99	1.01	0.98	1.02	0.98	1.03

T8		T11		T16		T22		T32	
19.52		13.86		9.85		7.01		5.01	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
13.20	∞	10.36	∞	7.96	∞	6.01	∞	4.48	∞
9.97	∞	8.27	∞	6.67	∞	5.26	∞	4.06	∞
8.57	63.53	7.29	∞	6.03	∞	4.85	∞	3.82	∞
6.69	20.13	5.89	34.98	5.05	∞	4.21	∞	3.41	∞
6.23	16.40	5.54	25.01	4.79	100.25	4.03	∞	3.30	∞
5.75	13.31	5.15	18.44	4.50	41.04	3.82	∞	3.16	∞
5.22	10.72	4.73	13.79	4.18	23.33	3.59	2455.53	3.00	∞
4.65	8.51	4.26	10.32	3.81	14.81	3.32	39.31	2.82	∞
4.04	6.60	3.74	7.63	3.39	9.80	3.00	16.53	2.59	1453.10
3.71	5.75	3.46	6.50	3.16	7.99	2.82	11.93	2.46	40.75
3.37	4.94	3.16	5.48	2.92	6.50	2.63	8.85	2.31	18.40
3.01	4.19	2.85	4.57	2.65	5.24	2.41	6.64	2.14	10.79
2.64	3.48	2.52	3.73	2.36	4.16	2.17	4.99	1.96	6.96
2.49	3.21	2.38	3.42	2.24	3.78	2.07	4.43	1.88	5.91
2.33	2.95	2.24	3.12	2.11	3.41	1.97	3.93	1.79	5.03
2.17	2.69	2.09	2.83	1.98	3.06	1.85	3.47	1.70	4.29
2.01	2.44	1.94	2.55	1.85	2.74	1.74	3.05	1.60	3.65
1.84	2.19	1.79	2.28	1.71	2.42	1.62	2.66	1.50	3.10
1.76	2.07	1.71	2.15	1.64	2.27	1.55	2.48	1.45	2.85
1.67	1.95	1.63	2.02	1.57	2.13	1.49	2.30	1.39	2.62
1.59	1.83	1.55	1.89	1.49	1.98	1.42	2.14	1.34	2.40
1.50	1.71	1.47	1.77	1.42	1.85	1.35	1.97	1.28	2.19
1.42	1.60	1.38	1.64	1.34	1.71	1.29	1.82	1.22	2.00
1.33	1.48	1.30	1.52	1.26	1.58	1.21	1.67	1.15	1.81
1.28	1.43	1.26	1.46	1.22	1.51	1.18	1.59	1.12	1.72
1.24	1.37	1.22	1.40	1.18	1.45	1.14	1.52	1.09	1.64
1.19	1.31	1.17	1.34	1.14	1.38	1.10	1.45	1.06	1.55
1.15	1.26	1.13	1.28	1.10	1.32	1.07	1.38	1.02	1.47
1.13	1.23	1.11	1.26	1.09	1.30	1.05	1.35	1.01	1.44
1.11	1.21	1.09	1.24	1.07	1.27	1.04	1.32	0.99	1.41
1.09	1.19	1.08	1.21	1.05	1.25	1.02	1.30	0.98	1.38
1.08	1.17	1.06	1.19	1.04	1.22	1.01	1.27	0.97	1.35
1.06	1.15	1.04	1.17	1.02	1.20	0.99	1.24	0.95	1.32
1.04	1.12	1.02	1.14	1.00	1.17	0.98	1.22	0.94	1.29
1.02	1.10	1.01	1.12	0.99	1.15	0.96	1.19	0.92	1.26
1.00	1.08	0.99	1.10	0.97	1.12	0.94	1.16	0.91	1.23
0.99	1.06	0.97	1.07	0.95	1.10	0.93	1.14	0.90	1.20
0.97	1.04	0.95	1.05	0.94	1.08	0.91	1.11	0.88	1.17



CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=50 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	78.48		67.10		47.49		33.63	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	26.57	81.21	25.14	98.50	21.80	251.37	18.35	∞
20	15.99	26.72	15.47	28.35	14.14	34.30	12.62	48.83
15	12.64	18.46	12.31	19.22	11.46	21.77	10.44	26.80
10	8.90	11.41	8.74	11.69	8.31	12.58	7.77	14.09
9	8.11	10.12	7.97	10.34	7.61	11.03	7.16	12.16
8	7.29	8.87	7.18	9.04	6.89	9.55	6.51	10.39
7	6.45	7.65	6.37	7.78	6.14	8.15	5.84	8.75
6	5.60	6.47	5.53	6.56	5.36	6.82	5.13	7.23
5	4.72	5.32	4.67	5.38	4.55	5.55	4.39	5.81
4.5	4.27	4.75	4.24	4.80	4.14	4.94	4.00	5.14
4	3.82	4.20	3.79	4.23	3.71	4.34	3.61	4.49
3.5	3.36	3.65	3.34	3.67	3.28	3.75	3.20	3.87
3	2.90	3.11	2.89	3.12	2.84	3.18	2.78	3.26
2.8	2.71	2.89	2.70	2.91	2.66	2.95	2.61	3.02
2.6	2.53	2.68	2.51	2.69	2.48	2.73	2.44	2.79
2.4	2.34	2.47	2.33	2.48	2.30	2.51	2.26	2.56
2.2	2.15	2.25	2.14	2.26	2.12	2.29	2.08	2.33
2	1.96	2.04	1.95	2.05	1.93	2.07	1.91	2.11
1.9	1.86	1.94	1.86	1.95	1.84	1.97	1.82	1.99
1.8	1.77	1.83	1.76	1.84	1.75	1.86	1.72	1.88
1.7	1.67	1.73	1.67	1.74	1.65	1.75	1.63	1.77
1.6	1.57	1.63	1.57	1.63	1.56	1.64	1.54	1.66
1.5	1.48	1.52	1.47	1.53	1.46	1.54	1.45	1.55
1.4	1.38	1.42	1.38	1.42	1.37	1.43	1.36	1.45
1.35	1.33	1.37	1.33	1.37	1.32	1.38	1.31	1.39
1.3	1.28	1.32	1.28	1.32	1.27	1.33	1.26	1.34
1.25	1.24	1.26	1.23	1.27	1.23	1.28	1.22	1.29
1.2	1.19	1.21	1.18	1.22	1.18	1.22	1.17	1.23
1.18	1.17	1.19	1.17	1.20	1.16	1.20	1.15	1.21
1.16	1.15	1.17	1.15	1.17	1.14	1.18	1.13	1.19
1.14	1.13	1.15	1.13	1.15	1.12	1.16	1.11	1.17
1.12	1.11	1.13	1.11	1.13	1.10	1.14	1.09	1.15
1.1	1.09	1.11	1.09	1.11	1.08	1.12	1.08	1.13
1.08	1.07	1.09	1.07	1.09	1.06	1.10	1.06	1.11
1.06	1.05	1.07	1.05	1.07	1.04	1.08	1.04	1.08
1.04	1.03	1.05	1.03	1.05	1.02	1.06	1.02	1.06
1.02	1.01	1.03	1.01	1.03	1.01	1.04	1.00	1.04
1	0.99	1.01	0.99	1.01	0.99	1.01	0.98	1.02

T8		T11		T16		T22		T32	
23.83		16.90		11.99		8.53		6.08	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
15.01	∞	11.95	∞	9.29	∞	7.08	∞	5.31	∞
10.96	122.38	9.24	∞	7.58	∞	6.05	∞	4.72	∞
9.28	39.88	8.03	129.81	6.75	∞	5.51	∞	4.39	∞
7.11	16.98	6.36	23.97	5.54	58.10	4.69	∞	3.86	∞
6.60	14.25	5.95	18.85	5.22	34.91	4.46	∞	3.71	∞
6.05	11.87	5.50	14.88	4.88	23.29	4.21	120.92	3.54	∞
5.47	9.77	5.02	11.71	4.50	16.31	3.93	37.24	3.34	∞
4.85	7.91	4.49	9.11	4.07	11.66	3.60	19.37	3.10	368.85
4.18	6.24	3.92	6.96	3.60	8.33	3.23	11.58	2.83	26.33
3.83	5.47	3.61	6.01	3.34	7.00	3.02	9.14	2.67	16.26
3.47	4.74	3.29	5.14	3.06	5.83	2.80	7.23	2.49	11.00
3.09	4.04	2.95	4.33	2.77	4.80	2.55	5.70	2.30	7.77
2.70	3.38	2.59	3.58	2.45	3.89	2.28	4.44	2.08	5.59
2.54	3.13	2.44	3.29	2.32	3.55	2.17	4.00	1.99	4.90
2.37	2.88	2.29	3.01	2.19	3.23	2.05	3.59	1.89	4.29
2.21	2.63	2.14	2.74	2.05	2.92	1.93	3.21	1.79	3.74
2.04	2.39	1.98	2.48	1.90	2.62	1.80	2.85	1.68	3.26
1.87	2.15	1.82	2.22	1.76	2.33	1.67	2.51	1.57	2.82
1.78	2.04	1.74	2.10	1.68	2.20	1.60	2.35	1.51	2.61
1.70	1.92	1.66	1.98	1.60	2.06	1.53	2.19	1.45	2.42
1.61	1.81	1.57	1.85	1.53	1.93	1.46	2.04	1.39	2.23
1.52	1.69	1.49	1.73	1.45	1.80	1.39	1.89	1.32	2.05
1.43	1.58	1.40	1.61	1.37	1.67	1.32	1.75	1.26	1.88
1.34	1.47	1.32	1.50	1.28	1.54	1.24	1.61	1.19	1.72
1.29	1.41	1.27	1.44	1.24	1.48	1.20	1.54	1.15	1.64
1.25	1.36	1.23	1.38	1.20	1.42	1.17	1.47	1.12	1.56
1.20	1.30	1.19	1.32	1.16	1.36	1.13	1.41	1.08	1.49
1.16	1.25	1.14	1.27	1.12	1.30	1.09	1.34	1.05	1.41
1.14	1.22	1.12	1.24	1.10	1.27	1.07	1.32	1.03	1.39
1.12	1.20	1.11	1.22	1.08	1.25	1.06	1.29	1.02	1.36
1.10	1.18	1.09	1.20	1.07	1.23	1.04	1.27	1.00	1.33
1.08	1.16	1.07	1.18	1.05	1.20	1.02	1.24	0.99	1.30
1.07	1.14	1.05	1.15	1.03	1.18	1.01	1.21	0.97	1.27
1.05	1.12	1.03	1.13	1.02	1.15	0.99	1.19	0.96	1.24
1.03	1.09	1.02	1.11	1.00	1.13	0.98	1.16	0.94	1.22
1.01	1.07	1.00	1.09	0.98	1.11	0.96	1.14	0.93	1.19
0.99	1.05	0.98	1.06	0.96	1.08	0.94	1.11	0.91	1.16
0.97	1.03	0.96	1.04	0.95	1.06	0.93	1.09	0.90	1.13

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=65 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	132.50		113.28		80.13		56.70	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	30.78	57.15	29.62	61.65	26.75	79.52	23.53	134.85
20	17.41	23.50	17.04	24.22	16.06	26.54	14.85	30.72
15	13.50	16.87	13.28	17.24	12.68	18.38	11.91	20.28
10	9.32	10.79	9.21	10.94	8.92	11.38	8.54	12.07
9	8.45	9.63	8.36	9.75	8.12	10.10	7.80	10.64
8	7.56	8.49	7.49	8.58	7.30	8.85	7.05	9.26
7	6.66	7.37	6.61	7.44	6.46	7.64	6.26	7.94
6	5.75	6.27	5.71	6.32	5.60	6.46	5.45	6.67
5	4.83	5.18	4.80	5.22	4.72	5.31	4.62	5.45
4.5	4.36	4.65	4.34	4.67	4.28	4.75	4.19	4.86
4	3.89	4.11	3.87	4.13	3.82	4.19	3.76	4.28
3.5	3.42	3.59	3.40	3.60	3.37	3.65	3.31	3.71
3	2.94	3.06	2.93	3.07	2.90	3.10	2.86	3.15
2.8	2.75	2.85	2.74	2.86	2.72	2.89	2.68	2.93
2.6	2.56	2.65	2.55	2.65	2.53	2.68	2.50	2.71
2.4	2.36	2.44	2.36	2.45	2.34	2.46	2.31	2.49
2.2	2.17	2.23	2.16	2.24	2.15	2.25	2.13	2.28
2	1.97	2.03	1.97	2.03	1.96	2.04	1.94	2.06
1.9	1.88	1.92	1.87	1.93	1.86	1.94	1.85	1.96
1.8	1.78	1.82	1.78	1.82	1.77	1.83	1.75	1.85
1.7	1.68	1.72	1.68	1.72	1.67	1.73	1.66	1.74
1.6	1.58	1.62	1.58	1.62	1.57	1.63	1.56	1.64
1.5	1.49	1.51	1.48	1.52	1.48	1.52	1.47	1.53
1.4	1.39	1.41	1.39	1.41	1.38	1.42	1.37	1.43
1.35	1.34	1.36	1.34	1.36	1.33	1.37	1.33	1.38
1.3	1.29	1.31	1.29	1.31	1.28	1.32	1.28	1.32
1.25	1.24	1.26	1.24	1.26	1.24	1.26	1.23	1.27
1.2	1.19	1.21	1.19	1.21	1.19	1.21	1.18	1.22
1.18	1.17	1.19	1.17	1.19	1.17	1.19	1.16	1.20
1.16	1.15	1.17	1.15	1.17	1.15	1.17	1.14	1.18
1.14	1.13	1.15	1.13	1.15	1.13	1.15	1.12	1.16
1.12	1.11	1.13	1.11	1.13	1.11	1.13	1.10	1.14
1.1	1.09	1.11	1.09	1.11	1.09	1.11	1.08	1.12
1.08	1.07	1.09	1.07	1.09	1.07	1.09	1.07	1.10
1.06	1.05	1.07	1.05	1.07	1.05	1.07	1.05	1.07
1.04	1.03	1.05	1.03	1.05	1.03	1.05	1.03	1.05
1.02	1.01	1.03	1.01	1.03	1.01	1.03	1.01	1.03
1	0.99	1.01	0.99	1.01	0.99	1.01	0.99	1.01

T8		T11		T16		T22		T32	
40.13		28.43		20.14		14.28		10.14	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
20.11	9343.12	16.70	∞	13.46	∞	10.58	∞	8.14	∞
13.42	39.52	11.82	66.50	10.11	2285.65	8.41	∞	6.80	∞
10.98	23.75	9.89	31.36	8.67	57.57	7.39	∞	6.13	∞
8.06	13.21	7.46	15.24	6.75	19.52	5.96	32.44	5.11	561.56
7.40	11.51	6.89	13.02	6.29	15.99	5.60	23.70	4.85	75.48
6.71	9.91	6.30	11.00	5.79	13.05	5.20	17.73	4.55	36.26
6.00	8.41	5.67	9.18	5.26	10.55	4.77	13.40	4.22	21.73
5.26	7.00	5.00	7.52	4.68	8.41	4.29	10.10	3.84	14.17
4.48	5.67	4.29	6.00	4.06	6.54	3.76	7.51	3.42	9.53
4.07	5.03	3.92	5.29	3.73	5.70	3.48	6.42	3.18	7.82
3.66	4.41	3.54	4.60	3.38	4.91	3.18	5.43	2.93	6.39
3.24	3.80	3.15	3.95	3.02	4.17	2.86	4.53	2.66	5.17
2.81	3.22	2.74	3.32	2.65	3.47	2.52	3.71	2.37	4.12
2.64	2.99	2.57	3.07	2.49	3.20	2.38	3.40	2.25	3.74
2.46	2.76	2.41	2.83	2.33	2.94	2.24	3.11	2.12	3.38
2.28	2.53	2.24	2.59	2.17	2.68	2.09	2.82	1.99	3.04
2.10	2.31	2.06	2.36	2.01	2.43	1.94	2.54	1.85	2.72
1.92	2.09	1.89	2.13	1.85	2.19	1.79	2.27	1.71	2.41
1.83	1.98	1.80	2.01	1.76	2.07	1.71	2.14	1.64	2.26
1.74	1.87	1.71	1.90	1.68	1.95	1.63	2.01	1.57	2.12
1.64	1.76	1.62	1.79	1.59	1.83	1.55	1.89	1.49	1.98
1.55	1.65	1.53	1.68	1.50	1.71	1.47	1.76	1.42	1.84
1.46	1.55	1.44	1.57	1.42	1.60	1.38	1.64	1.34	1.71
1.36	1.44	1.35	1.46	1.33	1.48	1.30	1.52	1.26	1.57
1.32	1.39	1.30	1.40	1.28	1.42	1.26	1.46	1.22	1.51
1.27	1.33	1.26	1.35	1.24	1.37	1.22	1.40	1.18	1.45
1.22	1.28	1.21	1.29	1.19	1.31	1.17	1.34	1.14	1.38
1.17	1.23	1.16	1.24	1.15	1.26	1.13	1.28	1.10	1.32
1.15	1.21	1.14	1.22	1.13	1.23	1.11	1.26	1.09	1.29
1.14	1.19	1.13	1.20	1.11	1.21	1.09	1.24	1.07	1.27
1.12	1.16	1.11	1.17	1.09	1.19	1.08	1.21	1.05	1.25
1.10	1.14	1.09	1.15	1.08	1.17	1.06	1.19	1.04	1.22
1.08	1.12	1.07	1.13	1.06	1.15	1.04	1.17	1.02	1.20
1.06	1.10	1.05	1.11	1.04	1.12	1.02	1.14	1.00	1.17
1.04	1.08	1.03	1.09	1.02	1.10	1.01	1.12	0.99	1.15
1.02	1.06	1.01	1.07	1.00	1.08	0.99	1.10	0.97	1.12
1.00	1.04	0.99	1.05	0.99	1.06	0.97	1.07	0.95	1.10
0.98	1.02	0.98	1.03	0.97	1.04	0.95	1.05	0.94	1.08

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=75 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	176.35		150.75		106.62		75.43	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	32.65	51.64	31.66	54.33	29.15	63.82	26.21	84.76
20	17.99	22.52	17.69	23.01	16.88	24.54	15.86	27.10
15	13.85	16.37	13.67	16.62	13.18	17.40	12.55	18.64
10	9.48	10.58	9.40	10.69	9.17	11.00	8.86	11.48
9	8.58	9.47	8.51	9.55	8.32	9.80	8.07	10.18
8	7.67	8.37	7.61	8.43	7.46	8.62	7.26	8.91
7	6.74	7.28	6.70	7.33	6.59	7.47	6.43	7.68
6	5.81	6.20	5.78	6.24	5.70	6.34	5.58	6.49
5	4.87	5.14	4.85	5.16	4.79	5.23	4.71	5.33
4.5	4.40	4.61	4.38	4.63	4.33	4.68	4.26	4.77
4	3.92	4.09	3.90	4.10	3.87	4.14	3.81	4.21
3.5	3.44	3.56	3.43	3.58	3.40	3.61	3.36	3.66
3	2.95	3.05	2.95	3.05	2.93	3.08	2.90	3.11
2.8	2.76	2.84	2.75	2.85	2.74	2.87	2.71	2.90
2.6	2.57	2.63	2.56	2.64	2.55	2.66	2.52	2.68
2.4	2.37	2.43	2.37	2.43	2.35	2.45	2.34	2.47
2.2	2.18	2.22	2.17	2.23	2.16	2.24	2.15	2.26
2	1.98	2.02	1.98	2.02	1.97	2.03	1.96	2.05
1.9	1.88	1.92	1.88	1.92	1.87	1.93	1.86	1.94
1.8	1.78	1.82	1.78	1.82	1.78	1.83	1.76	1.84
1.7	1.69	1.71	1.68	1.72	1.68	1.72	1.67	1.73
1.6	1.59	1.61	1.59	1.61	1.58	1.62	1.57	1.63
1.5	1.49	1.51	1.49	1.51	1.48	1.52	1.48	1.52
1.4	1.39	1.41	1.39	1.41	1.39	1.41	1.38	1.42
1.35	1.34	1.36	1.34	1.36	1.34	1.36	1.33	1.37
1.3	1.29	1.31	1.29	1.31	1.29	1.31	1.28	1.32
1.25	1.24	1.26	1.24	1.26	1.24	1.26	1.23	1.27
1.2	1.19	1.21	1.19	1.21	1.19	1.21	1.19	1.21
1.18	1.17	1.19	1.17	1.19	1.17	1.19	1.17	1.19
1.16	1.15	1.17	1.15	1.17	1.15	1.17	1.15	1.17
1.14	1.13	1.15	1.13	1.15	1.13	1.15	1.13	1.15
1.12	1.11	1.13	1.11	1.13	1.11	1.13	1.11	1.13
1.1	1.10	1.11	1.09	1.11	1.09	1.11	1.09	1.11
1.08	1.08	1.08	1.07	1.09	1.07	1.09	1.07	1.09
1.06	1.06	1.06	1.05	1.07	1.05	1.07	1.05	1.07
1.04	1.04	1.04	1.03	1.05	1.03	1.05	1.03	1.05
1.02	1.02	1.02	1.02	1.02	1.01	1.03	1.01	1.03
1	1.00	1.00	1.00	1.00	0.99	1.01	0.99	1.01

T8		T11		T16		T22		T32	
53.38		37.79		26.75		18.95		13.44	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
22.94	158.29	19.51	∞	16.10	∞	12.93	∞	10.12	∞
14.61	31.78	13.15	42.08	11.52	77.93	9.81	∞	8.11	∞
11.76	20.74	10.80	24.65	9.68	33.68	8.45	70.10	7.17	∞
8.46	12.23	7.96	13.48	7.34	15.77	6.62	20.77	5.81	37.79
7.74	10.76	7.32	11.71	6.79	13.40	6.17	16.82	5.46	26.43
6.99	9.36	6.65	10.06	6.21	11.27	5.69	13.60	5.09	19.22
6.22	8.01	5.95	8.52	5.60	9.37	5.17	10.91	4.67	14.22
5.42	6.72	5.21	7.07	4.95	7.64	4.61	8.63	4.21	10.56
4.60	5.48	4.45	5.71	4.25	6.08	4.01	6.68	3.71	7.77
4.17	4.89	4.05	5.07	3.89	5.35	3.68	5.80	3.43	6.60
3.74	4.30	3.64	4.44	3.51	4.65	3.35	4.99	3.14	5.56
3.30	3.72	3.23	3.83	3.13	3.98	2.99	4.22	2.83	4.62
2.86	3.16	2.80	3.23	2.73	3.34	2.63	3.51	2.50	3.77
2.67	2.94	2.63	3.00	2.56	3.09	2.47	3.23	2.36	3.45
2.49	2.72	2.45	2.77	2.39	2.85	2.32	2.96	2.22	3.15
2.31	2.50	2.27	2.54	2.23	2.61	2.16	2.70	2.08	2.85
2.12	2.28	2.09	2.32	2.05	2.37	2.00	2.45	1.93	2.57
1.94	2.07	1.91	2.09	1.88	2.14	1.84	2.20	1.78	2.30
1.84	1.96	1.82	1.98	1.79	2.02	1.75	2.08	1.70	2.16
1.75	1.85	1.73	1.87	1.70	1.91	1.67	1.96	1.62	2.03
1.66	1.75	1.64	1.77	1.62	1.79	1.58	1.84	1.54	1.90
1.56	1.64	1.55	1.66	1.53	1.68	1.50	1.72	1.46	1.77
1.47	1.53	1.45	1.55	1.44	1.57	1.41	1.60	1.38	1.65
1.37	1.43	1.36	1.44	1.34	1.46	1.32	1.49	1.29	1.53
1.32	1.38	1.31	1.39	1.30	1.41	1.28	1.43	1.25	1.47
1.28	1.32	1.27	1.34	1.25	1.35	1.23	1.37	1.21	1.41
1.23	1.27	1.22	1.28	1.21	1.30	1.19	1.32	1.17	1.35
1.18	1.22	1.17	1.23	1.16	1.24	1.15	1.26	1.12	1.29
1.16	1.20	1.15	1.21	1.14	1.22	1.13	1.24	1.11	1.26
1.14	1.18	1.13	1.19	1.12	1.20	1.11	1.22	1.09	1.24
1.12	1.16	1.12	1.17	1.11	1.18	1.09	1.19	1.07	1.22
1.10	1.14	1.10	1.15	1.09	1.16	1.07	1.17	1.06	1.19
1.08	1.12	1.08	1.12	1.07	1.13	1.06	1.15	1.04	1.17
1.06	1.10	1.06	1.10	1.05	1.11	1.04	1.13	1.02	1.15
1.05	1.08	1.04	1.08	1.03	1.09	1.02	1.10	1.00	1.12
1.03	1.05	1.02	1.06	1.01	1.07	1.00	1.08	0.99	1.10
1.01	1.03	1.00	1.04	0.99	1.05	0.98	1.06	0.97	1.08
0.99	1.01	0.98	1.02	0.97	1.03	0.96	1.04	0.95	1.06

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=85 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	226.47		193.59		136.90		96.84	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	34.03	48.51	33.19	50.34	31.01	56.38	28.37	67.91
20	18.40	21.91	18.15	22.27	17.48	23.37	16.62	25.12
15	14.09	16.04	13.94	16.23	13.55	16.81	13.02	17.69
10	9.59	10.45	9.52	10.53	9.34	10.76	9.09	11.12
9	8.67	9.36	8.61	9.42	8.46	9.61	8.26	9.89
8	7.74	8.28	7.69	8.33	7.57	8.48	7.41	8.69
7	6.80	7.21	6.77	7.25	6.67	7.36	6.55	7.52
6	5.85	6.16	5.83	6.18	5.76	6.26	5.67	6.38
5	4.90	5.11	4.88	5.12	4.83	5.18	4.77	5.26
4.5	4.42	4.59	4.40	4.60	4.37	4.64	4.31	4.70
4	3.94	4.07	3.92	4.08	3.89	4.11	3.85	4.16
3.5	3.45	3.55	3.44	3.56	3.42	3.58	3.39	3.62
3	2.96	3.04	2.96	3.04	2.94	3.06	2.92	3.09
2.8	2.77	2.83	2.76	2.84	2.75	2.85	2.73	2.87
2.6	2.57	2.63	2.57	2.63	2.56	2.64	2.54	2.66
2.4	2.38	2.42	2.37	2.43	2.36	2.44	2.35	2.45
2.2	2.18	2.22	2.18	2.22	2.17	2.23	2.16	2.24
2	1.99	2.02	1.98	2.02	1.98	2.03	1.97	2.04
1.9	1.89	1.91	1.88	1.92	1.88	1.92	1.87	1.93
1.8	1.79	1.81	1.79	1.81	1.78	1.82	1.77	1.83
1.7	1.69	1.71	1.69	1.71	1.68	1.72	1.68	1.73
1.6	1.59	1.61	1.59	1.61	1.58	1.62	1.58	1.62
1.5	1.49	1.51	1.49	1.51	1.49	1.51	1.48	1.52
1.4	1.39	1.41	1.39	1.41	1.39	1.41	1.38	1.42
1.35	1.34	1.36	1.34	1.36	1.34	1.36	1.34	1.36
1.3	1.29	1.31	1.29	1.31	1.29	1.31	1.29	1.31
1.25	1.24	1.26	1.24	1.26	1.24	1.26	1.24	1.26
1.2	1.20	1.20	1.19	1.21	1.19	1.21	1.19	1.21
1.18	1.18	1.18	1.17	1.19	1.17	1.19	1.17	1.19
1.16	1.16	1.16	1.15	1.17	1.15	1.17	1.15	1.17
1.14	1.14	1.14	1.14	1.15	1.13	1.15	1.13	1.15
1.12	1.12	1.12	1.12	1.12	1.11	1.13	1.11	1.13
1.1	1.10	1.10	1.10	1.10	1.09	1.11	1.09	1.11
1.08	1.08	1.08	1.08	1.08	1.07	1.09	1.07	1.09
1.06	1.06	1.06	1.06	1.06	1.05	1.07	1.05	1.07
1.04	1.04	1.04	1.04	1.04	1.03	1.05	1.03	1.05
1.02	1.02	1.02	1.02	1.02	1.01	1.03	1.01	1.03
1	1.00	1.00	1.00	1.00	0.99	1.01	0.99	1.01

T8		T11		T16		T22		T32	
68.51		48.50		34.32		24.30		17.22	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
25.33	95.59	21.99	225.69	18.55	∞	15.19	∞	12.10	∞
15.53	28.11	14.22	33.80	12.71	47.42	11.05	110.50	9.33	∞
12.35	19.12	11.51	21.57	10.50	26.38	9.35	38.57	8.09	111.95
8.76	11.66	8.33	12.52	7.80	13.98	7.15	16.76	6.40	23.34
7.99	10.31	7.63	10.98	7.18	12.09	6.63	14.10	5.98	18.46
7.19	9.02	6.90	9.52	6.53	10.34	6.07	11.77	5.53	14.64
6.38	7.76	6.15	8.13	5.86	8.71	5.49	9.70	5.04	11.57
5.54	6.55	5.37	6.80	5.15	7.21	4.86	7.86	4.51	9.03
4.68	5.37	4.56	5.54	4.40	5.80	4.19	6.21	3.93	6.92
4.24	4.80	4.14	4.93	4.01	5.13	3.84	5.45	3.62	5.98
3.79	4.23	3.72	4.33	3.61	4.49	3.47	4.73	3.29	5.12
3.34	3.67	3.28	3.75	3.20	3.86	3.09	4.04	2.95	4.31
2.89	3.12	2.84	3.18	2.78	3.26	2.70	3.38	2.59	3.57
2.70	2.91	2.66	2.95	2.61	3.02	2.54	3.13	2.44	3.28
2.52	2.69	2.48	2.73	2.44	2.79	2.37	2.88	2.29	3.01
2.33	2.48	2.30	2.51	2.26	2.56	2.21	2.63	2.14	2.74
2.14	2.26	2.12	2.29	2.08	2.33	2.04	2.39	1.98	2.48
1.95	2.05	1.93	2.07	1.91	2.11	1.87	2.15	1.82	2.22
1.86	1.95	1.84	1.97	1.82	1.99	1.78	2.04	1.74	2.10
1.76	1.84	1.75	1.86	1.72	1.88	1.69	1.92	1.66	1.98
1.67	1.74	1.65	1.75	1.63	1.77	1.61	1.81	1.57	1.85
1.57	1.63	1.56	1.64	1.54	1.66	1.52	1.69	1.49	1.73
1.47	1.53	1.46	1.54	1.45	1.56	1.43	1.58	1.40	1.61
1.38	1.42	1.37	1.43	1.36	1.45	1.34	1.47	1.32	1.50
1.33	1.37	1.32	1.38	1.31	1.39	1.29	1.41	1.27	1.44
1.28	1.32	1.27	1.33	1.26	1.34	1.25	1.36	1.23	1.38
1.23	1.27	1.23	1.28	1.22	1.29	1.20	1.30	1.18	1.32
1.18	1.22	1.18	1.22	1.17	1.23	1.16	1.25	1.14	1.27
1.16	1.20	1.16	1.20	1.15	1.21	1.14	1.23	1.12	1.24
1.15	1.17	1.14	1.18	1.13	1.19	1.12	1.20	1.10	1.22
1.13	1.15	1.12	1.16	1.11	1.17	1.10	1.18	1.09	1.20
1.11	1.13	1.10	1.14	1.09	1.15	1.08	1.16	1.07	1.18
1.09	1.11	1.08	1.12	1.07	1.13	1.06	1.14	1.05	1.15
1.07	1.09	1.06	1.10	1.06	1.11	1.05	1.12	1.03	1.13
1.05	1.07	1.04	1.08	1.04	1.08	1.03	1.09	1.01	1.11
1.03	1.05	1.02	1.06	1.02	1.06	1.01	1.07	1.00	1.09
1.01	1.03	1.00	1.04	1.00	1.04	0.99	1.05	0.98	1.07
0.99	1.01	0.99	1.01	0.98	1.02	0.97	1.03	0.96	1.04

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=100 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	313.40		267.89		189.43		133.98	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	35.50	45.81	34.84	46.97	33.07	50.62	30.86	56.89
20	18.82	21.34	18.63	21.59	18.12	22.33	17.44	23.46
15	14.33	15.74	14.22	15.87	13.92	16.26	13.52	16.85
10	9.70	10.32	9.65	10.38	9.51	10.54	9.32	10.78
9	8.76	9.26	8.72	9.30	8.60	9.43	8.45	9.63
8	7.81	8.20	7.78	8.24	7.69	8.34	7.56	8.49
7	6.85	7.15	6.83	7.18	6.76	7.26	6.67	7.37
6	5.89	6.11	5.87	6.13	5.82	6.19	5.75	6.27
5	4.93	5.08	4.91	5.09	4.88	5.13	4.83	5.18
4.5	4.44	4.56	4.43	4.57	4.40	4.60	4.36	4.65
4	3.95	4.05	3.95	4.06	3.92	4.08	3.89	4.11
3.5	3.46	3.54	3.46	3.54	3.44	3.56	3.42	3.59
3	2.97	3.03	2.97	3.03	2.96	3.04	2.94	3.06
2.8	2.78	2.82	2.77	2.83	2.76	2.84	2.75	2.85
2.6	2.58	2.62	2.58	2.62	2.57	2.63	2.56	2.65
2.4	2.38	2.42	2.38	2.42	2.37	2.43	2.36	2.44
2.2	2.19	2.21	2.18	2.22	2.18	2.22	2.17	2.23
2	1.99	2.01	1.99	2.01	1.98	2.02	1.97	2.03
1.9	1.89	1.91	1.89	1.91	1.88	1.92	1.88	1.92
1.8	1.79	1.81	1.79	1.81	1.79	1.81	1.78	1.82
1.7	1.69	1.71	1.69	1.71	1.69	1.71	1.68	1.72
1.6	1.59	1.61	1.59	1.61	1.59	1.61	1.58	1.62
1.5	1.49	1.51	1.49	1.51	1.49	1.51	1.49	1.51
1.4	1.40	1.40	1.39	1.41	1.39	1.41	1.39	1.41
1.35	1.35	1.35	1.34	1.36	1.34	1.36	1.34	1.36
1.3	1.30	1.30	1.30	1.30	1.29	1.31	1.29	1.31
1.25	1.25	1.25	1.25	1.25	1.24	1.26	1.24	1.26
1.2	1.20	1.20	1.20	1.20	1.19	1.21	1.19	1.21
1.18	1.18	1.18	1.18	1.18	1.17	1.19	1.17	1.19
1.16	1.16	1.16	1.16	1.16	1.15	1.17	1.15	1.17
1.14	1.14	1.14	1.14	1.14	1.13	1.15	1.13	1.15
1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.11	1.13
1.1	1.10	1.10	1.10	1.10	1.10	1.10	1.09	1.11
1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.07	1.09
1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.05	1.07
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.03	1.05
1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.01	1.03
1	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.01

T8		T11		T16		T22		T32	
94.78		67.07		47.45		33.58		23.78	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
28.19	68.96	25.13	98.54	21.78	251.60	18.33	∞	14.98	∞
16.56	25.27	15.46	28.36	14.13	34.33	12.60	48.90	10.94	122.60
12.99	17.76	12.30	19.23	11.45	21.79	10.43	26.83	9.27	39.95
9.07	11.14	8.74	11.70	8.30	12.59	7.76	14.11	7.10	17.01
8.24	9.91	7.97	10.35	7.60	11.04	7.15	12.18	6.59	14.28
7.40	8.71	7.18	9.04	6.88	9.56	6.51	10.40	6.04	11.89
6.54	7.53	6.36	7.78	6.13	8.16	5.83	8.76	5.46	9.79
5.66	6.39	5.53	6.56	5.36	6.83	5.13	7.24	4.84	7.92
4.76	5.26	4.67	5.38	4.55	5.55	4.39	5.82	4.17	6.25
4.31	4.71	4.23	4.80	4.13	4.94	4.00	5.15	3.82	5.48
3.85	4.16	3.79	4.23	3.71	4.34	3.60	4.50	3.46	4.75
3.39	3.62	3.34	3.68	3.28	3.76	3.19	3.87	3.08	4.05
2.92	3.09	2.88	3.13	2.84	3.18	2.78	3.27	2.69	3.39
2.73	2.88	2.70	2.91	2.66	2.96	2.61	3.03	2.53	3.13
2.54	2.67	2.51	2.69	2.48	2.73	2.43	2.79	2.37	2.88
2.35	2.45	2.33	2.48	2.30	2.51	2.26	2.56	2.20	2.64
2.16	2.25	2.14	2.26	2.11	2.29	2.08	2.33	2.04	2.39
1.96	2.04	1.95	2.05	1.93	2.08	1.90	2.11	1.87	2.16
1.87	1.93	1.86	1.95	1.84	1.97	1.81	2.00	1.78	2.04
1.77	1.83	1.76	1.84	1.74	1.86	1.72	1.89	1.69	1.92
1.68	1.73	1.66	1.74	1.65	1.75	1.63	1.78	1.60	1.81
1.58	1.62	1.57	1.63	1.56	1.65	1.54	1.67	1.52	1.69
1.48	1.52	1.47	1.53	1.46	1.54	1.45	1.56	1.43	1.58
1.38	1.42	1.38	1.42	1.37	1.43	1.36	1.45	1.34	1.47
1.34	1.37	1.33	1.37	1.32	1.38	1.31	1.39	1.29	1.41
1.29	1.31	1.28	1.32	1.27	1.33	1.26	1.34	1.25	1.36
1.24	1.26	1.23	1.27	1.23	1.28	1.22	1.29	1.20	1.30
1.19	1.21	1.18	1.22	1.18	1.22	1.17	1.23	1.16	1.25
1.17	1.19	1.16	1.20	1.16	1.20	1.15	1.21	1.14	1.23
1.15	1.17	1.15	1.18	1.14	1.18	1.13	1.19	1.12	1.20
1.13	1.15	1.13	1.15	1.12	1.16	1.11	1.17	1.10	1.18
1.11	1.13	1.11	1.13	1.10	1.14	1.09	1.15	1.08	1.16
1.09	1.11	1.09	1.11	1.08	1.12	1.07	1.13	1.06	1.14
1.07	1.09	1.07	1.09	1.06	1.10	1.06	1.11	1.05	1.12
1.05	1.07	1.05	1.07	1.04	1.08	1.04	1.09	1.03	1.10
1.03	1.05	1.03	1.05	1.02	1.06	1.02	1.06	1.01	1.07
1.01	1.03	1.01	1.03	1.00	1.04	1.00	1.04	0.99	1.05
0.99	1.01	0.99	1.01	0.99	1.02	0.98	1.02	0.97	1.03

CN-E45-135mm T2.4 L F / CN-E45-135mm T2.4 L FP

許容錯乱円 / Permissible circle of confusion / 允许弥散圆 : 0.014 mm

f=135 mm

IRIS / 光圈	T2.4		T2.8		T4		T5.6	
Hyperfocal distance(m) 超焦距 (m)	536.95		458.97		324.53		229.51	
Object distance(m) 物距 (m)	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
40	37.25	43.19	36.82	43.79	35.64	45.58	34.10	48.38
20	19.29	20.76	19.18	20.90	18.86	21.29	18.42	21.88
15	14.60	15.42	14.53	15.50	14.35	15.71	14.10	16.03
10	9.82	10.18	9.79	10.22	9.71	10.31	9.59	10.44
9	8.86	9.15	8.83	9.17	8.77	9.25	8.67	9.35
8	7.89	8.12	7.87	8.14	7.81	8.19	7.74	8.28
7	6.91	7.09	6.90	7.10	6.86	7.15	6.80	7.21
6	5.94	6.06	5.93	6.08	5.90	6.11	5.85	6.15
5	4.96	5.04	4.95	5.05	4.93	5.07	4.90	5.10
4.5	4.47	4.54	4.46	4.54	4.44	4.56	4.42	4.58
4	3.97	4.03	3.97	4.03	3.95	4.05	3.94	4.07
3.5	3.48	3.52	3.48	3.52	3.47	3.53	3.45	3.55
3	2.99	3.02	2.98	3.02	2.98	3.03	2.97	3.04
2.8	2.79	2.81	2.78	2.82	2.78	2.82	2.77	2.83
2.6	2.59	2.61	2.59	2.61	2.58	2.62	2.57	2.63
2.4	2.39	2.41	2.39	2.41	2.38	2.42	2.38	2.42
2.2	2.19	2.21	2.19	2.21	2.19	2.21	2.18	2.22
2	1.99	2.01	1.99	2.01	1.99	2.01	1.99	2.01
1.9	1.89	1.91	1.89	1.91	1.89	1.91	1.89	1.91
1.8	1.79	1.81	1.79	1.81	1.79	1.81	1.79	1.81
1.7	1.70	1.70	1.69	1.71	1.69	1.71	1.69	1.71
1.6	1.60	1.60	1.60	1.60	1.59	1.61	1.59	1.61
1.5	1.50	1.50	1.50	1.50	1.49	1.51	1.49	1.51
1.4	1.40	1.40	1.40	1.40	1.40	1.40	1.39	1.41
1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.34	1.36
1.3	1.30	1.30	1.30	1.30	1.30	1.30	1.29	1.31
1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.24	1.26
1.2	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18
1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.16
1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
1.1	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08	1.08
1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04	1.04
1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
1	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

T8		T11		T16		T22		T32	
162.33		114.86		81.23		57.47		40.68	
Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远	Near 近	Far 远
32.14	52.97	29.73	61.20	26.87	78.47	23.66	130.65	20.24	2224.39
17.84	22.77	17.07	24.15	16.10	26.43	14.89	30.50	13.48	39.01
13.75	16.50	13.30	17.21	12.70	18.33	11.95	20.18	11.02	23.57
9.44	10.64	9.22	10.92	8.93	11.36	8.56	12.04	8.08	13.16
8.54	9.51	8.37	9.74	8.13	10.08	7.82	10.61	7.41	11.47
7.64	8.40	7.50	8.58	7.31	8.84	7.06	9.24	6.73	9.88
6.72	7.30	6.61	7.43	6.47	7.63	6.27	7.93	6.01	8.39
5.80	6.22	5.72	6.31	5.61	6.45	5.46	6.66	5.26	6.98
4.86	5.15	4.80	5.21	4.73	5.31	4.62	5.45	4.48	5.66
4.39	4.62	4.34	4.67	4.28	4.75	4.19	4.86	4.08	5.02
3.91	4.09	3.88	4.13	3.83	4.19	3.76	4.28	3.67	4.40
3.43	3.57	3.41	3.60	3.37	3.64	3.32	3.71	3.24	3.80
2.95	3.05	2.93	3.07	2.90	3.10	2.87	3.15	2.81	3.21
2.76	2.84	2.74	2.86	2.72	2.89	2.68	2.93	2.64	2.98
2.56	2.64	2.55	2.65	2.53	2.68	2.50	2.71	2.46	2.76
2.37	2.43	2.36	2.44	2.34	2.46	2.32	2.49	2.28	2.53
2.17	2.23	2.16	2.24	2.15	2.25	2.13	2.28	2.10	2.31
1.98	2.02	1.97	2.03	1.96	2.04	1.94	2.06	1.92	2.09
1.88	1.92	1.87	1.93	1.86	1.94	1.85	1.95	1.83	1.98
1.78	1.82	1.78	1.82	1.77	1.83	1.75	1.85	1.74	1.87
1.69	1.71	1.68	1.72	1.67	1.73	1.66	1.74	1.64	1.76
1.59	1.61	1.58	1.62	1.57	1.63	1.56	1.64	1.55	1.65
1.49	1.51	1.48	1.52	1.48	1.52	1.47	1.53	1.46	1.55
1.39	1.41	1.39	1.41	1.38	1.42	1.37	1.43	1.36	1.44
1.34	1.36	1.34	1.36	1.33	1.37	1.33	1.38	1.32	1.39
1.29	1.31	1.29	1.31	1.28	1.32	1.28	1.32	1.27	1.33
1.24	1.26	1.24	1.26	1.24	1.26	1.23	1.27	1.22	1.28
1.19	1.21	1.19	1.21	1.19	1.21	1.18	1.22	1.17	1.23
1.17	1.19	1.17	1.19	1.17	1.19	1.16	1.20	1.15	1.21
1.15	1.17	1.15	1.17	1.15	1.17	1.14	1.18	1.14	1.19
1.13	1.15	1.13	1.15	1.13	1.15	1.12	1.16	1.12	1.16
1.11	1.13	1.11	1.13	1.11	1.13	1.10	1.14	1.10	1.14
1.09	1.11	1.09	1.11	1.09	1.11	1.08	1.12	1.08	1.12
1.07	1.09	1.07	1.09	1.07	1.09	1.07	1.09	1.06	1.10
1.06	1.07	1.05	1.07	1.05	1.07	1.05	1.07	1.04	1.08
1.04	1.04	1.03	1.05	1.03	1.05	1.03	1.05	1.02	1.06
1.02	1.02	1.01	1.03	1.01	1.03	1.01	1.03	1.00	1.04
1.00	1.00	0.99	1.01	0.99	1.01	0.99	1.01	0.98	1.02