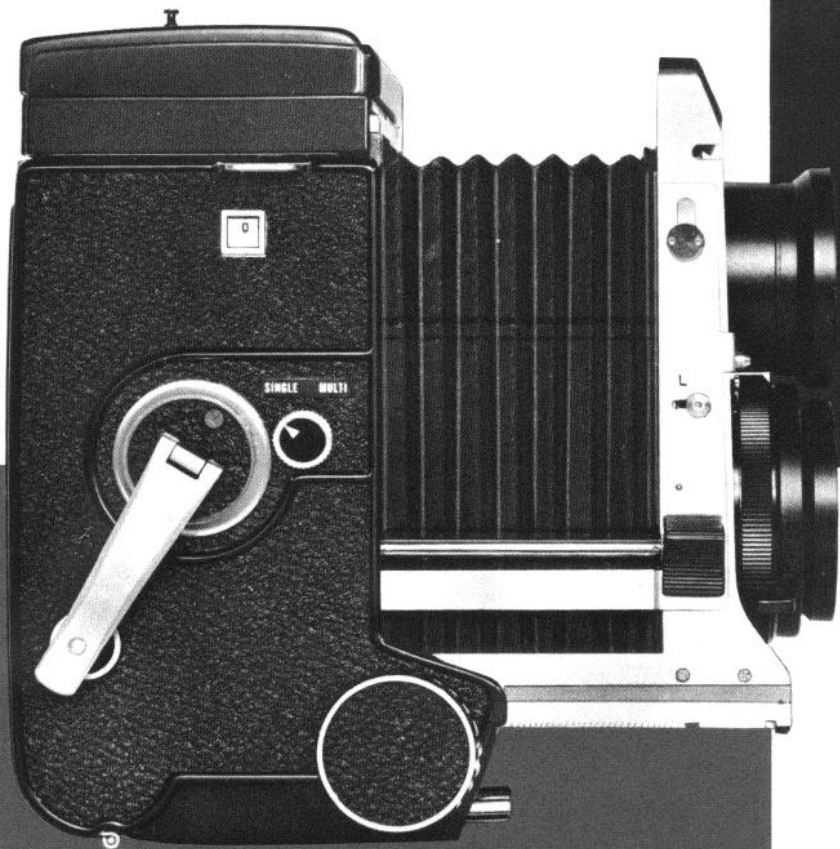
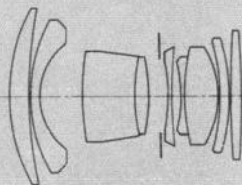


Mamiya **C330**



Depth of Field Table

55mm f/4.5

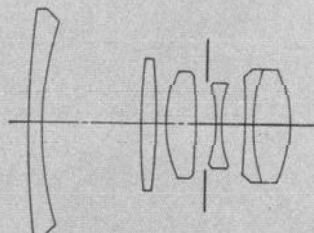


Aperture	Distance (in feet)										
	∞	30	15	7	5	3	2.5	2	1.5	1	9 1/2"
4.5	29' 1" ∞	14' 11" ∞	10' 30' 1"	5' 9"	4' 4 1/4" 5' 11"	2' 9 3/4" 3' 3 3/4"	2' 4 5/8" 2' 8 3/4"	1' 10 3/8" 2' 1 3/8"	1' 5 1/2" 1' 6 1/2"	11 1/8" 1' 1 3/8"	9 3/8" 9 3/8"
5.6	23' 2" ∞	13' 3" ∞	9' 3" 40' 8"	5' 6" 9' 8 1/2"	4' 2 1/2" 6' 2"	2' 8 1/2" 3' 4 1/4"	2' 4 3/4" 2' 9 1/2"	1' 10 3/8" 2' 1 3/8"	1' 5 5/8" 1' 6 3/8"	11 3/8" 1' 3 3/8"	9 3/8" 9 3/8"
8	16' 5" ∞	10' 9" ∞	8' 145"	5' 1" 11' 7"	3' 11 1/2" 6' 10"	2' 7 1/2" 3' 6 1/4"	2' 3 3/8" 2' 10 3/4"	1' 10 3/8" 2' 2 3/8"	1' 5 5/8" 1' 7"	11 3/8" 1' 1 3/8"	9 3/8" 9 3/8"
11	11' 8" ∞	8' 6" ∞	6' 9" ∞	4' 6 1/2" 16' 1"	3' 7 3/4" 8' 2"	2' 5 3/4" 3' 9 1/2"	2' 2 3/4" 3' 3 3/4"	1' 9 3/8" 2' 3 3/4"	1' 4 3/4" 1' 7 1/2"	11 3/8" 1' 3 3/8"	9 3/8" 9 3/8"
16	8' 4" ∞	6' 8" ∞	5' 6" ∞	3' 11 3/4" 35' 10"	3' 3 1/2" 11' 1"	2' 4 3/4" 4' 3 3/4"	2' 3 3/8" 3' 4 3/4"	1' 8 3/8" 2' 5"	1' 4 3/4" 1' 8 3/4"	11 3/8" 1' 3 3/8"	9 3/8" 9 3/8"
22	5' 11 1/2" ∞	5' 1" ∞	4' 5" ∞	3' 4 3/4" ∞	2' 10 3/4" 23' 8"	2' 1 3/4" 5' 1"	1' 11 3/8" 3' 10 3/4"	1' 7 3/8" 2' 7 3/4"	1' 3 3/4" 1' 9 3/4"	11 3/8" 1' 3 3/8"	9 3/8" 9 3/8"

Aperture	Distance (in meter)											
	∞	5	3	2	1.5	1.1	0.8	0.6	0.5	0.4	0.3	0.25
4.5	8.87 ∞	3.24 11.11	2.28 4.42	1.66 2.52	1.31 1.76	1.00 1.23	0.75 0.86	0.57 0.63	0.48 0.52	0.391 0.410	0.296 0.304	0.249 0.251
5.6	7.07 ∞	2.98 16.28	2.15 5.04	1.59 2.70	1.27 1.85	0.98 1.26	0.74 0.88	0.57 0.64	0.48 0.52	0.389 0.412	0.296 0.305	0.248 0.252
8	5.02 ∞	2.56 ∞	1.93 7.04	1.47 3.17	1.19 2.05	0.93 1.35	0.71 0.91	0.56 0.65	0.47 0.53	0.384 0.418	0.294 0.307	0.248 0.253
11	3.57 ∞	2.13 ∞	1.68 16.81	1.33 4.21	1.10 2.42	0.88 1.49	0.68 0.97	0.54 0.68	0.46 0.55	0.378 0.425	0.291 0.309	0.247 0.254
16	2.55 ∞	1.73 ∞	1.43 ∞	1.17 7.97	0.99 3.27	0.81 1.76	0.65 1.07	0.52 0.72	0.45 0.57	0.370 0.437	0.288 0.314	0.245 0.255
22	1.82 ∞	1.37 ∞	1.18 ∞	1.00 ∞	0.87 6.65	0.73 2.37	0.60 1.25	0.49 0.79	0.43 0.61	0.359 0.455	0.283 0.320	0.243 0.257

Depth of Field Table

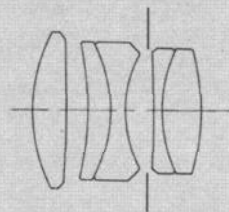
65mm f/3.5



Aperture	Distance (in feet)										
	∞	30	15	7	5	3	2	1.75	1.5	1.25	1
3.5	50' 2 3/4"	18' 11 3/4" 73' 13 1/4"	11' 8" 21' 1"	6' 2 1/2" 8' 3/4"	4' 7 1/4" 5' 5 3/4"	2' 10 1/2" 3' 1 1/4"	1' 11 1/4" 2' 1/2"	1' 8 3/4" 1' 9 3/4"	1' 5 3/4" 1' 6 3/4"	1' 2 3/4" 1' 3 3/4"	1' 1 3/4" 1' 3/4"
	43' 11 1/2" ∞	17' 11 3/4" 92' 1 1/4"	11' 3 3/4" 22' 4 1/2"	6' 1 1/2" 8' 2 1/4"	4' 6 1/2" 5' 6 3/4"	2' 10 1/4" 3' 2"	1' 11 1/4" 2' 3/4"	1' 8 1/2" 1' 9 1/2"	1' 5 1/2" 1' 6 1/2"	1' 2 1/2" 1' 3 1/2"	1' 1 1/2" 1' 3/8"
4	31' 5 1/2" ∞	15' 6 3/4" 155' 9"	10' 3 1/2" 27' 11"	5' 9 3/4" 8' 9 3/4"	4' 4 3/4" 5' 9 3/4"	2' 9 1/2" 3' 3"	1' 11" 2' 1"	1' 8 3/4" 1' 9 3/4"	1' 5 3/4" 1' 6 3/4"	1' 2 3/4" 1' 3 3/4"	1' 1 1/2" 1' 3/8"
	22' 1" ∞	12' 10 1/2" ∞	9' 1" 44' 5 3/4"	5' 5 1/4" 9' 11"	4' 2" 6' 3"	2' 8 1/2" 3' 4 1/2"	1' 10 1/2" 2' 1 1/2"	1' 8" 1' 10 1/4"	1' 5 1/4" 1' 6 3/4"	1' 2 1/4" 1' 3 3/4"	1' 1 1/4" 1' 3/4"
8	16' 1 1/2" ∞	10' 7 1/2" ∞	7' 11 1/4" 175' 8"	5' 1/4" 11' 9 1/4"	3' 11 1/4" 6' 11"	2' 7 1/2" 3' 6 3/4"	1' 10 1/4" 2' 2 1/4"	1' 7 3/4" 1' 10 1/2"	1' 5 1/4" 1' 7 1/2"	1' 2 1/4" 1' 3 1/2"	1' 1 1/4" 1' 3/4"
	11' 1 3/4" ∞	8' 3" ∞	6' 6 3/4" ∞	4' 5 1/2" 17' 2 1/2"	3' 7 3/4" 8' 5"	2' 5 3/4" 3' 10 1/4"	1' 9 3/4" 2' 3 3/4"	1' 7 3/4" 1' 11 1/4"	1' 4 3/4" 1' 7 3/4"	1' 2 1/4" 1' 3 1/2"	1' 1 3/4" 1' 3/4"
16	8' 2" ∞	6' 6 3/4" ∞	5' 5 1/4" ∞	3' 11 1/4" 39' 3/4"	3' 3" 11' 5"	2' 4" 4' 3 3/4"	1' 8 1/2" 2' 5"	1' 6 1/2" 2' 3/4"	1' 4 1/2" 1' 8 1/4"	1' 1 3/4" 1' 4 1/4"	1' 1 1/4" 1' 1 1/2"
	5' 8 3/4" ∞	4' 10 1/4" ∞	4' 3" ∞	3' 3 1/2" 31'	2' 10 1/4" 29' 3/4"	1' 11 1/4" 5' 5 1/4"	1' 7 3/4" 2' 8 1/4"	1' 5 3/4" 2' 2 1/4"	1' 3 3/4" 1' 9 1/4"	1' 1 3/4" 1' 4 1/4"	1' 1 1/4" 1' 1 1/2"

Aperture	Distance (in meter)											
	∞	5	3	2	1.2	1	0.8	0.65	0.6	0.5	0.4	0.3
3.5	15.31	3.81	2.54	1.79	1.12	0.95	0.77	0.63	0.585	0.490	0.395	0.298
	∞	7.32	3.68	2.27	1.29	1.06	0.83	0.67	0.616	0.510	0.405	0.302
4	13.40	3.68	2.48	1.76	1.12	0.94	0.77	0.63	0.582	0.489	0.394	0.298
	∞	7.84	3.80	2.31	1.30	1.06	0.84	0.67	0.619	0.512	0.406	0.302
5.6	9.59	3.33	2.32	1.68	1.09	0.92	0.75	0.62	0.576	0.485	0.392	0.297
	∞	10.16	4.26	2.47	1.34	1.09	0.85	0.68	0.627	0.517	0.409	0.303
8	6.73	2.92	2.12	1.58	1.04	0.89	0.73	0.61	0.566	0.478	0.388	0.296
	∞	18.35	5.21	2.75	1.42	1.14	0.88	0.70	0.639	0.524	0.413	0.304
11	4.91	2.53	1.91	1.46	1.00	0.86	0.71	0.59	0.554	0.471	0.384	0.294
	∞	∞	7.25	3.21	1.52	1.20	0.92	0.72	0.655	0.534	0.418	0.306
16	3.40	2.07	1.64	1.31	0.93	0.81	0.68	0.57	0.536	0.459	0.378	0.292
	∞	20.27	4.30	1.73	1.33	1.33	0.98	0.75	0.684	0.551	0.426	0.309
22	2.49	1.71	1.41	1.16	0.85	0.76	0.64	0.55	0.516	0.446	0.370	0.289
	∞	∞	∞	8.48	2.09	1.52	1.07	0.80	0.723	0.573	0.437	0.313
32	1.73	1.32	1.14	0.98	0.76	0.68	0.59	0.51	0.486	0.425	0.358	0.284
	∞	∞	∞	∞	3.21	2.00	1.28	0.91	0.801	0.616	0.457	0.319

80mm f/2.8

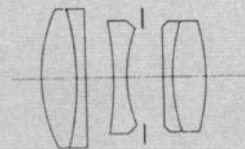


Aperture	Distance (in feet)								
	∞	30	15	10	7	5	4	3	1.5
2.8	102' 7" ∞	23' 4 1/4" 42' 1/4"	13' 2" 17' 5"	9' 2" 11'	6' 7 3/4" 7' 5 1/2"	4' 9 3/4" 5' 2 1/2"	3' 10 1/2" 4' 1 1/2"	2' 11 1/4" 3' 3/4"	1' 5 5/8" 1' 6 5/8"
4	71' 10 1/2" ∞	21' 4" 50' 9 1/4"	12' 6 1/4" 18' 8 3/4"	8' 10 1/2" 11' 5 1/4"	6' 5 3/4" 7' 8"	4' 8 3/4" 5' 3 3/4"	3' 10" 4' 2 1/4"	2' 11" 3' 1 1/4"	1' 5 5/8" 1' 6 5/8"
5.6	51' 5" ∞	19' 1 1/2" 70' 4"	11' 9" 20' 9 1/2"	8' 5 3/4" 12' 2 1/2"	6' 3" 7' 11 1/4"	4' 7 1/2" 5' 5 1/2"	3' 9 3/4" 4' 3 3/4"	2' 10 1/2" 3' 1 1/2"	1' 5 5/8" 1' 6 3/4"
8	36' 3/4" ∞	16' 7" 167' 5 3/4"	10' 9 1/4" 24' 11 1/2"	7' 11 1/2" 13' 5 3/4"	5' 11 3/4" 8' 5 3/4"	4' 5 3/4" 5' 8"	3' 8" 4' 4 3/4"	2' 10" 3' 2 1/4"	1' 5 5/8" 1' 6 3/4"
11	26' 3 1/2" ∞	14' 2 1/2" ∞	9' 8 3/4" 33' 3 3/4"	7' 5" 15' 6 1/2"	5' 8" 9' 2 1/2"	4' 3 3/4" 5' 11 3/4"	3' 6 3/4" 4' 6 3/4"	2' 9 3/4" 3' 3 3/4"	1' 5 5/8" 1' 6 1/2"
16	18' 1 3/4" ∞	11' 6" ∞	8' 5" 76' 3 3/4"	6' 7 1/2" 20' 10 1/4"	5' 2 1/2" 10' 9 1/2"	4' 3/4" 6' 6 3/4"	3' 4 3/4" 4' 10 1/2"	2' 8" 3' 5"	1' 5 5/8" 1' 6 1/2"
22	13' 3 3/4" ∞	9' 4 1/2" ∞	7' 3" ∞	5' 10 1/4" 35' 8"	4' 9 1/4" 13' 7"	3' 9 1/2" 7' 5 3/4"	3' 2 3/4" 5' 4"	2' 7" 3' 7 1/2"	1' 5 5/8" 1' 7"
32	9' 2 3/4" ∞	7' 2 3/4" ∞	5' 10 3/4" ∞	5' ∞	4' 2 3/4" 24' 2 3/4"	3' 5 3/4" 9' 7 3/4"	2' 11 3/4" 6' 3 3/4"	2' 5" 4'	1' 4 5/8" 1' 7 1/2"

Aperture	Distance (in meter)								
	∞	10	5	3	2	1.5	1.2	1	0.45
2.8	31.27 ∞	7.62 14.57	4.34 5.90	2.76 3.29	1.89 2.12	1.44 1.56	1.16 1.24	0.98 1.02	0.447 0.453
4	21.91 ∞	6.92 18.13	4.11 6.40	2.66 3.44	1.85 2.18	1.42 1.59	1.15 1.26	0.97 1.04	0.446 0.454
5.6	15.67 ∞	6.16 26.92	3.84 7.21	2.55 3.65	1.80 2.26	1.39 1.63	1.13 1.28	0.95 1.05	0.444 0.456
8	10.99 ∞	5.30 99.80	3.49 8.91	2.40 4.02	1.72 2.39	1.35 1.70	1.10 1.32	0.94 1.07	0.442 0.458
11	8.01 ∞	4.51 ∞	3.14 12.65	2.23 4.62	1.64 2.57	1.30 1.78	1.07 1.37	0.91 1.11	0.439 0.462
16	5.53 ∞	3.62 ∞	2.69 42.83	2.00 6.14	1.52 2.97	1.22 1.96	1.02 1.46	0.88 1.16	0.434 0.467
22	4.04 ∞	2.93 ∞	2.30 ∞	1.78 10.25	1.39 3.64	1.14 2.21	0.97 1.59	0.84 1.24	0.429 0.474
32	2.80 ∞	2.23 ∞	1.85 ∞	1.51 ∞	1.23 5.90	1.04 2.84	0.89 1.87	0.79 1.40	0.420 0.486

Depth of Field Table

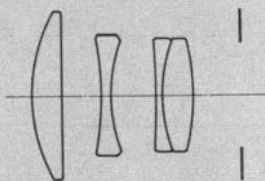
105mm f/3.5 D



Aperture	Distance (in feet)								
	∞	30	15	10	7	5	4.5	4	3
3.5	131' 5¼"	24' 7" 38' 6½"	13' 6¾" 16' 9½"	9' 4¼" 10' 8¾"	6' 8¾" 7' 4"	4' 10¼" 5' 2"	4' 4½" 4' 7½"	3' 11" 4' 1"	2' 11½" 3' ¾"
	115' ½" ∞	23' 11½" 40' 2"	13' 4¾" 17' 1"	9' 3¼" 10' 10¼"	6' 7¾" 7' 4½"	4' 10" 5' 2¼"	4' 4½" 4' 7¾"	3' 10¾" 4' 1¼"	2' 11½" 3' ¾"
4	82' 3¼"	22' 2¼" 46' 6¼"	12' 9¾" 18' 1¾"	9' ¾" 11' 2¾"	6' 6¾" 7' 6¾"	4' 9¾" 5' 3"	4' 3¾" 4' 8¾"	3' 10¾" 4' 1¾"	2' 11½" 3' ¾"
	57' 8¾" ∞	19' 11¾" 60' 11¾"	12' 1" 19' 10½"	8' 7¾" 11' 10½"	6' 4" 7' 9¾"	4' 8¾" 5' 4½"	4' 3" 4' 9¾"	3' 9¾" 4' 2¾"	2' 10¾" 3' 1½"
8	42' ½"	17' 9¾" 100' ½"	11' 3" 22' 7¾"	8' 3" 12' 9¾"	6' 1½" 8' 2¼"	4' 6¾" 5' 6¾"	4' 2" 4' 11"	3' 8¾" 4' 3¾"	2' 10¾" 3' 1½"
	28' 11½"	15' ∞	10' 1½" 29' 7"	7' 7¾" 14' 7½"	5' 9¾" 8' 10½"	4' 4¾" 5' 9¾"	4' ¾" 5' 1½"	3' 7¾" 4' 5¾"	2' 9¾" 3' 2½"
16	21' 2¼"	12' 8" ∞	9' ½" 38' 6½"	7' ¾" 17' 9"	5' 5½" 9' 10½"	4' 2½" 6' 2¾"	3' 10½" 5' 5"	3' 6" 4' 8"	2' 8¾" 3' 3¾"
	14' 8" ∞	10' 1" ∞	7' 8¾" 51 80' 3¼"	6' 2½" 27' 9¼"	4' 11¾" 12' 2¼"	3' 11¾" 6' 11¾"	3' 7¾" 5' 11¾"	3' 4" 4' ¾"	2' 7¾" 3' 5½"
32									

Aperture	Distance (in meter)									
	∞	10	5	3	2	1.5	1.3	1.2	1	0.65
3.5	40.06 ∞	8.05 13.21	4.48 5.67	2.81 3.22	1.92 2.09	1.46 1.55	1.27 1.33	1.17 1.23	0.98 1.02	0.645 0.655
4	35.07 ∞	7.84 13.85	4.41 4.78	2.79 3.25	1.91 2.10	1.45 1.55	1.26 1.34	1.17 1.23	0.98 1.02	0.644 0.656
5.6	25.08 ∞	7.21 16.38	4.21 6.16	2.71 3.36	1.87 2.15	1.43 1.58	1.25 1.35	1.16 1.24	0.97 1.03	0.642 0.659
8	17.58 ∞	6.45 22.59	3.95 6.85	2.60 3.55	1.83 2.21	1.41 1.61	1.23 1.38	1.14 1.26	0.96 1.04	0.638 0.663
11	12.82 ∞	5.70 43.09	3.66 7.96	2.48 3.81	1.77 2.31	1.37 1.66	1.21 1.41	1.12 1.29	0.95 1.06	0.634 0.667
16	8.84 ∞	4.77 ∞	3.27 10.92	2.30 4.35	1.68 2.48	1.32 1.74	1.17 1.47	1.09 1.34	0.93 1.09	0.627 0.676
22	6.46 ∞	4.00 ∞	2.90 19.91	2.12 5.26	1.59 2.74	1.27 1.85	1.13 1.54	1.07 1.40	0.90 1.12	0.618 0.686
32	4.47 ∞	3.16 ∞	2.44 ∞	1.87 8.08	1.45 3.30	1.19 2.08	1.07 1.69	1.00 1.51	0.87 1.19	0.605 0.704

135mm f/4.5

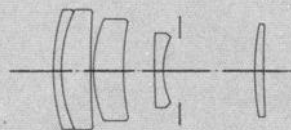


Aperture	Distance (in feet)								
	∞	30	15	10	7	6	4	3.5	3
4.5	159' 3 1/2" ∞	25' 4 1/4" 36' 8"	13' 9 1/2" 16' 5 1/4"	9' 5 3/4" 10' 7"	6' 9" 7' 3 1/4"	5' 10" 6' 2 3/4"	3' 11 1/4" 4' 3/4"	3' 5 1/2" 3' 6 1/2"	2' 11 1/2" 3' 1/2"
5.6	128' 3/4" ∞	24' 5 3/4" 38' 9 1/4"	13' 6 1/2" 16' 10"	9' 4 1/4" 10' 9"	6' 8 1/4" 7' 4"	5' 9 1/2" 6' 2 3/4"	3' 11" 4' 1"	3' 5 1/4" 3' 6 3/4"	2' 11 1/2" 3' 1/2"
8	89' 8 3/4" ∞	22' 8 1/2" 44' 4 1/4"	13' 17' 9"	9' 1 1/4" 11' 1 1/4"	6' 7" 7' 5 1/4"	5' 8 1/4" 6' 4"	3' 10 1/2" 4' 1 1/2"	3' 5" 3' 5"	2' 11 1/4" 3' 3/4"
11	65' 4" ∞	20' 9 3/4" 54' 1 1/4"	12' 4 1/2" 19' 1"	8' 9 3/4" 11' 9"	6' 5 1/4" 7' 8 1/4"	5' 7" 6' 5 1/4"	3' 10" 4' 2 1/4"	3' 4 1/2" 3' 7 1/2"	2' 11" 3' 1"
16	45' 3/4" ∞	18' 3 1/2" 85' 6 3/4"	11' 5 1/4" 21' 9 1/2"	8' 4 1/4" 12' 5 3/4"	6' 2 1/2" 8' 3/4"	5' 5" 6' 8 1/4"	3' 9 1/4" 4' 3 1/4"	3' 4" 3' 8 1/4"	2' 10 3/4" 3' 1 1/2"
22	32' 10" ∞	15' 11 3/4" 286' 2 1/4"	10' 6 3/4" 26' 3 1/2"	7' 10 1/2" 13' 9 1/4"	5' 11 1/4" 8' 6 1/2"	5' 2 3/4" 7' 3/4"	3' 8 1/4" 4' 4 1/2"	3' 3 1/4" 3' 9 1/4"	2' 10 1/4" 3' 2"
32	22' 8" ∞	13' 2 1/2" ∞	9' 3 3/4" 40' 2 3/4"	7' 2 1/4" 16' 8"	5' 6 3/4" 9' 6"	4' 11 1/4" 7' 8"	3' 6 3/4" 4' 7"	3' 2 1/4" 3' 10 3/4"	2' 9 1/4" 3' 3 1/4"
45	16' 2 1/2" ∞	10' 9 1/2" ∞	8' 1" 132' 8"	6' 5 3/4" 23' 1/2"	5' 1 3/4" 11' 2"	4' 7 1/2" 8' 8 1/4"	3' 5" 4' 10 1/2"	3' 3/4" 4' 3 3/4"	2' 8 1/2" 3' 4 3/4"

Aperture	Distance (in meter)								
	∞	10	5	3	2	1.75	1.2	1.0	0.95
4.5	48.55 ∞	8.34 12.49	4.56 5.53	2.85 3.17	1.93 2.07	1.70 1.80	1.18 1.22	0.99 1.01	0.94 0.96
5.6	39.03 ∞	8.02 13.30	4.47 5.68	2.81 3.22	1.92 2.09	1.69 1.81	1.17 1.23	0.98 1.02	0.94 0.96
8	27.35 ∞	7.39 15.51	4.27 6.03	2.74 3.32	1.89 2.13	1.67 1.84	1.16 1.24	0.98 1.02	0.93 0.97
11	19.92 ∞	6.74 19.56	4.05 6.54	2.65 3.46	1.85 2.18	1.64 1.88	1.15 1.25	0.97 1.03	0.92 0.98
16	13.72 ∞	5.87 34.79	3.74 7.61	2.52 3.73	1.79 2.28	1.59 1.95	1.13 1.28	0.96 1.05	0.91 0.99
22	10.01 ∞	5.09 566.22	3.41 9.49	2.37 4.10	1.72 2.40	1.54 2.04	1.11 1.31	0.94 1.07	0.90 1.01
32	6.91 ∞	4.17 ∞	2.99 16.18	2.17 4.94	1.62 2.65	1.46 2.21	1.07 1.37	0.92 1.10	0.88 1.04
45	4.94 ∞	3.39 ∞	2.58 217.48	1.95 6.75	1.50 3.05	1.37 2.47	1.03 1.46	0.89 1.15	0.85 1.08

Depth of Field Table

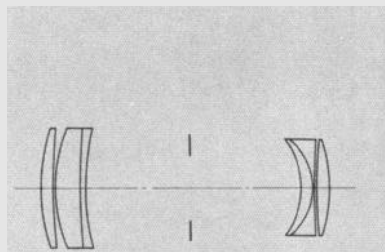
**Super
180mm f/4.5**



Aperture	Distance (in feet)										
	∞	60	30	15	12	10	8	7	6	5	4.5
4.5	299' ∞	50' 2" 74' 8"	27' 4 1/2" 33' 2 1/4"	14' 4 1/4" 15' 8 1/2"	11' 7" 12' 5 1/4"	9' 8 3/4" 10' 3 1/2"	7' 10" 8' 2 1/4"	6' 10 1/2" 7' 1 1/2"	5' 11" 6' 1"	4' 11 1/4" 5' 3/4"	4' 5 1/2" 4' 6 1/2"
5.6	240' ∞	48' 3" 79' 5"	26' 9 3/4" 34' 3/4"	14' 2 1/2" 15' 10 1/4"	11' 6" 12' 6 1/2"	9' 8" 10' 4 1/2"	7' 9 1/2" 8' 2 3/4"	6' 10" 7' 2"	5' 10 1/4" 6' 1 1/4"	4' 11 1/4" 5' 1"	4' 5 1/2" 4' 6 3/4"
8	168' ∞	44' 6" 92' 3"	25' 7 3/4" 36' 2"	13' 10 1/2" 16' 3 3/4"	11' 3 1/2" 12' 9 3/4"	9' 6 3/4" 10' 6 1/2"	7' 8 1/4" 8' 3 3/4"	6' 9 1/4" 7' 2 3/4"	5' 10 1/4" 6' 2"	4' 10 3/4" 5' 1 1/4"	4' 5" 4' 7"
11	122' ∞	40' 7" 115' 7"	24' 4" 39' 2 1/4"	13' 6" 16' 10 1/2"	11' 3/2" 13' 1 1/2"	9' 4 1/4" 10' 9"	7' 7 1/4" 8' 5 1/2"	6' 7 1/2" 7' 4"	5' 9 1/2" 6' 2 3/4"	4' 10 1/4" 5' 1 3/4"	4' 4 3/4" 4' 7 1/4"
16	84' 2" ∞	35' 5" 200'	22' 4 3/4" 45' 6 1/2"	12' 11" 17' 10 3/4"	10' 8" 13' 8 3/4"	9' 1" 11' 1 1/2"	7' 5" 8' 8"	6' 6 3/4" 7' 6"	5' 8 1/4" 6' 4"	4' 9 3/4" 5' 2 1/2"	4' 4 1/4" 4' 8"
22	61' 3" ∞	30' 8" 166'	20' 5 1/2" 56' 7"	12' 3 1/2" 19' 3 1/2"	10' 3" 14' 6 1/4"	8' 9 1/4" 11' 7 1/2"	7' 2 3/4" 8' 11 1/2"	6' 5" 7' 8 1/4"	5' 7" 6' 5 3/4"	4' 8 3/4" 5' 3 1/2"	4' 3 1/2" 4' 8 3/4"
32	42' 3" ∞	25' 2" ∞	17' 10 3/4" 95' 2"	11' 4 1/4" 22' 2 1/2"	9' 7 1/4" 16' 1/2"	8' 3 3/4" 12' 6 3/4"	6' 11 1/4" 9' 5 3/4"	6' 2 3/4" 8' 3/4"	5' 5" 6' 8 3/4"	4' 7 3/4" 5' 5 1/2"	4' 2 3/4" 4' 10"
45	30' 1" ∞	20' 4" ∞	15' 4 3/4" 87'	10' 4 1/4" 27' 8"	8' 10 3/4" 18' 7 1/2"	7' 9 3/4" 14' 1/2"	6' 7" 10' 3"	5' 11" 8' 7 1/4"	5' 2 3/4" 7' 3/4"	4' 5 3/4" 5' 8"	4' 1 3/4" 5'

Aperture	Distance (in meter)											
	∞	20	10	7	5	4	3	2.5	2	1.7	1.5	1.3
4.5	91.00	16.46	9.05	6.53	4.76	3.85	2.92	2.45	1.97	1.68	1.48	1.29
	∞	25.49	11.18	7.54	5.26	4.16	3.09	2.56	2.03	1.72	1.52	1.31
5.6	73.14	15.78	8.84	6.42	4.71	3.81	2.90	2.43	1.96	1.67	1.48	1.29
	∞	27.32	11.51	7.69	5.33	4.20	3.11	2.57	2.04	1.73	1.52	1.31
8	51.22	14.47	8.43	6.21	4.59	3.74	2.86	2.40	1.94	1.66	1.47	1.28
	∞	32.42	12.30	8.03	5.49	4.30	3.16	2.60	2.06	1.74	1.53	1.32
11	37.27	13.12	7.96	5.95	4.46	3.65	2.81	2.37	1.92	1.65	1.46	1.27
	∞	42.28	13.34	8.50	5.70	4.42	3.22	2.65	2.09	1.76	1.54	1.33
16	25.65	11.35	7.29	5.58	4.25	3.51	2.73	2.32	1.89	1.62	1.44	1.26
	∞	85.96	16.00	9.42	6.09	4.65	3.33	2.72	2.13	1.79	1.56	1.34
22	18.68	9.77	6.62	5.18	4.02	3.36	2.64	2.25	1.85	1.59	1.42	1.25
	∞	∞	20.67	10.84	6.63	4.95	3.48	2.81	2.18	1.82	1.59	1.36
32	12.87	7.94	5.74	4.64	3.69	3.14	2.50	2.16	1.79	1.55	1.39	1.22
	∞	∞	40.37	14.46	7.79	5.55	3.75	2.98	2.28	1.88	1.63	1.39
45	9.17	6.39	4.90	4.08	3.34	2.88	2.35	2.04	1.71	1.50	1.35	1.19
	∞	∞	∞	25.69	10.10	6.60	4.18	3.23	2.41	1.97	1.69	1.43

250mm f/6.3



Aperture	Distance (in feet)										
	∞	200	100	50	30	20	15	12	10	8	7
6.3	412'	135'	81'	44' 11"	28' 2"	19' 2"	14' 7"	11' 9"	9' 10"	7' 11"	6' 11 1/2"
	∞	385'	131'	56' 5"	32' 1"	20' 10"	15' 5"	12' 3"	10' 2"	8' 1"	7' 1/2"
8	325'	125'	77'	43' 8"	27' 8"	19'	14' 5"	11' 8"	9' 9 1/2"	7' 10 1/2"	6' 11"
	∞	513'	143'	58' 6"	32' 8"	21' 1"	15' 7"	12' 4"	10' 2"	8' 1 1/2"	7' 1"
11	230'	108'	70' 4"	41' 6"	26' 10"	18' 7"	14' 3"	11' 6"	9' 8 1/2"	7' 10"	6' 10 1/2"
	∞	1474'	174'	62' 11"	34'	21' 7"	15' 10"	12' 6"	10' 3"	8' 2"	7' 1 1/2"
16	163'	90' 7"	62' 9"	38' 10"	25' 9"	18' 1"	14'	11' 3"	9' 7"	7' 9"	6' 10"
	∞	∞	252'	70' 6"	36'	22' 4"	16' 2"	12' 8"	10' 5"	8' 3"	7' 2"
22	116'	74'	54' 5"	35' 7"	24' 4"	17' 5"	13' 7"	11' 2"	9' 5"	7' 8"	6' 9"
	∞	∞	688'	85' 2"	39' 3"	23' 6"	16' 9"	13'	10' 8"	8' 4 1/2"	7' 2 1/2"
32	82' 1"	58' 10"	45' 11"	31' 10"	22' 7"	16' 7"	13' 1"	10' 10"	9' 2 1/2"	7' 6 1/2"	6' 8"
	∞	∞	∞	121'	45' 2"	25' 4"	17' 7"	13' 7"	10' 11"	8' 6"	7' 4"
45	58' 5"	45' 9"	37' 7"	27' 9"	20' 6"	15' 6"	12' 5"	10' 5"	8' 11 1/2"	7' 4 1/2"	6' 6 1/2"
	∞	∞	∞	303'	57' 6"	28' 7"	19'	14' 3"	11' 4"	8' 9"	7' 6"
64	41' 8"	34' 11"	30' 1"	23' 6"	18' 3"	14' 3"	11' 8"	9' 10 1/2"	8' 6 1/2"	7' 1 1/2"	6' 4 1/2"
	∞	∞	∞	∞	24' 4"	24' 11"	21' 5"	15' 6"	12' 1"	9' 1 1/2"	7' 8"

Aperture	Distance (in meter)										
	∞	50	30	20	15	10	7	5	4	3	2.5
6.3	125.6	35.97	24.37	17.37	13.49	9.33	6.68	4.84	3.91	2.95	2.47
	∞	82.30	39.08	23.59	16.90	10.78	7.36	5.17	4.10	3.05	2.53
8	99.02	33.44	23.20	16.78	13.14	9.16	6.60	4.80	3.88	2.94	2.46
	∞	99.75	42.57	24.80	17.50	11.01	7.46	5.21	4.13	3.06	2.54
11	70.12	29.43	21.22	15.73	12.50	8.86	6.45	4.73	3.83	2.92	2.45
	∞	170.3	51.56	27.55	18.80	11.49	7.67	5.31	4.18	3.09	2.56
16	49.69	25.17	18.94	14.46	11.70	8.46	6.24	4.62	3.77	2.88	2.42
	∞	∞	73.65	32.70	21.02	12.26	7.98	5.45	4.27	3.13	2.58
22	35.24	20.91	16.45	12.99	10.73	7.96	5.98	4.49	3.68	2.84	2.39
	∞	∞	188.4	44.55	25.26	13.54	8.48	5.66	4.39	3.19	2.62
32	25.03	16.90	13.89	11.36	9.61	7.35	5.64	4.31	3.57	2.77	2.35
	∞	∞	∞	92.02	3.55	15.91	9.31	5.99	4.57	3.28	2.67
45	17.81	13.32	11.41	9.67	8.39	6.63	5.23	4.08	3.42	2.69	2.30
	∞	∞	∞	∞	83.74	21.20	10.82	6.54	4.86	3.41	2.75
64	12.70	10.29	9.13	8.00	7.13	5.84	4.74	3.79	3.23	2.58	2.23
	∞	∞	∞	∞	∞	40.55	14.09	7.54	5.36	3.62	2.87