

- for fixed-lens, compact rangefinders

The circle of confusion measurement used is a fairly standard 0.030mm. All distances are in metres.

Table	Focal length	Aperture range	Typical cameras
1	40mm	f/1.7 - f/16	Canonet new QL17 and QL17 G-III; Olympus 35 RD
2	45mm	f/2 - f/16	Canonet QL19
3	40mm	f/2.8 - f/16	Canonet 28
4	42mm	f/2.8 - f/22	Olympus 35 RC
5	42mm	f/1.7 - f/16	Olympus 35 SP

<http://www.squit.co.uk/photo>

Hyperfocal distances and depth of field (metres)													Focal length:		40 mm		
													circle of confusion:		0.030 mm		
Aperture		f/1.7		f/2.		f/2.8		f/4.		f/5.6		f/8.		f/11.		f/16.	
Hyperfocal		31.8		26.7		18.9		13.4		9.47		6.71		4.75		3.37	
		near	far	near	far	near	far	near	far	near	far	near	far	near	far	near	far
Focus distance	0.8	0.78	0.82	0.78	0.82	0.77	0.83	0.76	0.85	0.74	0.87	0.72	0.90	0.69	0.95	0.65	1.04
	1.	0.97	1.03	0.97	1.04	0.95	1.05	0.93	1.08	0.91	1.11	0.87	1.17	0.83	1.26	0.78	1.40
	1.25	1.20	1.30	1.20	1.31	1.17	1.34	1.15	1.37	1.11	1.43	1.06	1.53	0.99	1.68	0.92	1.96
	1.5	1.43	1.57	1.42	1.59	1.39	1.63	1.35	1.68	1.30	1.77	1.23	1.92	1.15	2.17	1.04	2.67
	2.	1.88	2.13	1.86	2.16	1.81	2.23	1.74	2.34	1.66	2.52	1.55	2.83	1.41	3.42	1.26	4.85
	2.5	2.32	2.71	2.29	2.75	2.21	2.88	2.11	3.07	1.98	3.38	1.83	3.96	1.64	5.23	1.44	9.54
	3.	2.74	3.31	2.70	3.37	2.59	3.56	2.45	3.86	2.28	4.37	2.08	5.40	1.84	8.06	1.59	26.8
	4.	3.56	4.57	3.48	4.70	3.31	5.06	3.08	5.69	2.82	6.90	2.51	9.85	2.17	25.0	1.83	inf
	5.	4.32	5.93	4.22	6.14	3.96	6.78	3.64	7.96	3.28	10.6	2.87	19.5	2.44	inf	2.01	inf
	10.	7.61	14.6	7.28	16.0	6.54	21.2	5.72	39.5	4.86	inf	4.01	inf	3.21	inf	2.51	inf
	15.	10.2	28.4	9.61	34.2	8.36	72.6	7.07	inf	5.80	inf	4.62	inf	3.59	inf	2.73	inf
	20.	12.3	54.0	11.4	79.5	9.72	inf	8.01	inf	6.42	inf	5.01	inf	3.82	inf	2.86	inf
50.	19.4	inf	17.4	inf	13.7	inf	10.5	inf	7.94	inf	5.89	inf	4.31	inf	3.13	inf	

Hyperfocal distances and depth of field (metres)										Focal length: 45 mm				
										circle of confusion: 0.030 mm				
Aperture	f/2.		f/2.8		f/4.		f/5.6		f/8.		f/11.		f/16.	
Hyperfocal	33.8		23.9		16.9		12.0		8.48		6.01		4.26	
	near	far	near	far	near	far	near	far	near	far	near	far	near	far
Focus distance	0.8	0.78 0.82	0.78 0.83		0.77 0.84		0.75 0.85		0.73 0.88		0.71 0.92		0.68 0.97	
	1.	0.97 1.03	0.96 1.04		0.95 1.06		0.93 1.09		0.90 1.13		0.86 1.19		0.82 1.29	
	1.25	1.21 1.30	1.19 1.32		1.17 1.35		1.14 1.39		1.09 1.46		1.04 1.57		0.97 1.75	
	1.5	1.44 1.57	1.41 1.60		1.38 1.64		1.34 1.71		1.28 1.81		1.21 1.98		1.12 2.29	
	2.	1.89 2.12	1.85 2.18		1.79 2.26		1.72 2.39		1.62 2.60		1.51 2.97		1.37 3.73	
	2.5	2.33 2.70	2.27 2.79		2.18 2.93		2.07 3.15		1.94 3.53		1.77 4.25		1.58 5.98	
	3.	2.76 3.29	2.67 3.42		2.55 3.64		2.40 3.99		2.22 4.62		2.01 5.94		1.76 10.0	
	4.	3.58 4.53	3.43 4.79		3.24 5.22		3.00 5.98		2.72 7.53		2.41 11.9		2.06 64.0	
	5.	4.36 5.86	4.14 6.31		3.87 7.08		3.53 8.55		3.15 12.1		2.73 29.5		2.30 inf	
	10.	7.72 14.2	7.06 17.2		6.29 24.4		5.45 60.3		4.59 inf		3.75 inf		2.98 inf	
	15.	10.4 26.9	9.22 40.2		7.95 131.8		6.66 inf		5.41 inf		4.28 inf		3.30 inf	
	20.	12.6 48.9	10.9 122.1		9.16 inf		7.48 inf		5.94 inf		4.60 inf		3.49 inf	
	50.	20.2 inf	16.2 inf		12.6 inf		9.64 inf		7.22 inf		5.33 inf		3.89 inf	

Hyperfocal distances and depth of field (metres)										Focal length: 40 mm			
										circle of confusion: 0.030 mm			
Aperture	f/2.8		f/4.		f/5.6		f/8.		f/11.		f/16.		
Hyperfocal	18.9		13.4		9.47		6.71		4.75		3.37		
	near	far	near	far	near	far	near	far	near	far	near	far	
Focus distance	0.8	0.77 0.83	0.76 0.85		0.74 0.87		0.72 0.90		0.69 0.95		0.65 1.04		
	1.	0.95 1.05	0.93 1.08		0.91 1.11		0.87 1.17		0.83 1.26		0.78 1.40		
	1.25	1.17 1.34	1.15 1.37		1.11 1.43		1.06 1.53		0.99 1.68		0.92 1.96		
	1.5	1.39 1.63	1.35 1.68		1.30 1.77		1.23 1.92		1.15 2.17		1.04 2.67		
	2.	1.81 2.23	1.74 2.34		1.66 2.52		1.55 2.83		1.41 3.42		1.26 4.85		
	2.5	2.21 2.88	2.11 3.07		1.98 3.38		1.83 3.96		1.64 5.23		1.44 9.54		
	3.	2.59 3.56	2.45 3.86		2.28 4.37		2.08 5.40		1.84 8.06		1.59 26.8		
	4.	3.31 5.06	3.08 5.69		2.82 6.90		2.51 9.85		2.17 25.0		1.83 inf		
	5.	3.96 6.78	3.64 7.96		3.28 10.6		2.87 19.5		2.44 inf		2.01 inf		
	10.	6.54 21.2	5.72 39.5		4.86 inf		4.01 inf		3.21 inf		2.51 inf		
	15.	8.36 72.6	7.07 inf		5.80 inf		4.62 inf		3.59 inf		2.73 inf		
	20.	9.72 inf	8.01 inf		6.42 inf		5.01 inf		3.82 inf		2.86 inf		
	50.	13.7 inf	10.5 inf		7.94 inf		5.89 inf		4.31 inf		3.13 inf		

Hyprefocal distances and depth of field (metres)										Focal length: 42 mm				
										circle of confusion: 0.030 mm				
Aperture	f/2.8		f/4.		f/5.6		f/8.		f/11.		f/16.		f/22.	
Hyperfocal	20.8		14.7		10.4		7.39		5.24		3.72		2.64	
	near	far	near	far	near	far	near	far	near	far	near	far	near	far
Focus distance	0.8	0.77 0.83	0.76 0.84		0.75 0.86		0.73 0.89		0.70 0.94		0.66 1.01		0.62 1.13	
	1.	0.96 1.05	0.94 1.07		0.92 1.10		0.88 1.15		0.84 1.23		0.79 1.35		0.73 1.58	
	1.25	1.18 1.33	1.16 1.36		1.12 1.41		1.07 1.50		1.01 1.63		0.94 1.86		0.85 2.34	
	1.5	1.40 1.61	1.36 1.67		1.32 1.74		1.25 1.87		1.17 2.08		1.07 2.49		0.96 3.42	
	2.	1.83 2.21	1.76 2.31		1.68 2.46		1.58 2.73		1.45 3.21		1.30 4.28		1.14 8.11	
	2.5	2.24 2.84	2.14 3.00		2.02 3.27		1.87 3.76		1.70 4.74		1.50 7.55		1.28 46.2	
	3.	2.63 3.50	2.50 3.76		2.34 4.19		2.14 5.02		1.91 6.96		1.66 15.4		1.40 inf	
	4.	3.36 4.94	3.15 5.47		2.90 6.46		2.60 8.67		2.27 16.8		1.93 inf		1.59 inf	
	5.	4.04 6.57	3.74 7.54		3.39 9.56		2.99 15.4		2.56 108.6		2.13 inf		1.72 inf	
	10.	6.76 19.2	5.96 31.0		5.11 238.1		4.25 inf		3.43 inf		2.70 inf		2.07 inf	
	15.	8.72 53.5	7.43 inf		6.15 inf		4.94 inf		3.87 inf		2.96 inf		2.22 inf	
	20.	10.2 500.4	8.48 inf		6.85 inf		5.38 inf		4.13 inf		3.11 inf		2.30 inf	
	50.	14.7 inf	11.4 inf		8.61 inf		6.41 inf		4.71 inf		3.43 inf		2.47 inf	

Hyp̄rfocal distances and depth of field (metres)												Focal length: 42 mm				
												circle of confusion: 0.030 mm				
Aperture	f/1.7		f/2.		f/2.8		f/4.		f/5.6		f/8.		f/11.		f/16.	
Hyperfocal	35.0		29.4		20.8		14.7		10.4		7.39		5.24		3.72	
	near	far	near	far	near	far	near	far	near	far	near	far	near	far	near	far
Focus distance	0.8	0.78 0.82	0.78 0.82	0.77 0.83	0.76 0.84	0.75 0.86	0.73 0.89	0.70 0.94	0.66 1.01							
	1.	0.97 1.03	0.97 1.03	0.96 1.05	0.94 1.07	0.92 1.10	0.88 1.15	0.84 1.23	0.79 1.35							
	1.25	1.21 1.29	1.20 1.30	1.18 1.33	1.16 1.36	1.12 1.41	1.07 1.50	1.01 1.63	0.94 1.86							
	1.5	1.44 1.57	1.43 1.58	1.40 1.61	1.36 1.67	1.32 1.74	1.25 1.87	1.17 2.08	1.07 2.49							
	2.	1.89 2.12	1.88 2.14	1.83 2.21	1.76 2.31	1.68 2.46	1.58 2.73	1.45 3.21	1.30 4.28							
	2.5	2.34 2.69	2.31 2.73	2.24 2.84	2.14 3.00	2.02 3.27	1.87 3.76	1.70 4.74	1.50 7.55							
	3.	2.77 3.28	2.73 3.34	2.63 3.50	2.50 3.76	2.34 4.19	2.14 5.02	1.91 6.96	1.66 15.4							
	4.	3.59 4.51	3.53 4.62	3.36 4.94	3.15 5.47	2.90 6.46	2.60 8.67	2.27 16.8	1.93 inf							
	5.	4.38 5.83	4.28 6.01	4.04 6.57	3.74 7.54	3.39 9.56	2.99 15.4	2.56 108.6	2.13 inf							
	10.	7.78 14.0	7.47 15.1	6.76 19.2	5.96 31.0	5.11 238.1	4.25 inf	3.43 inf	2.70 inf							
	15.	10.5 26.2	9.94 30.5	8.72 53.5	7.43 inf	6.15 inf	4.94 inf	3.87 inf	2.96 inf							
	20.	12.7 46.6	11.9 62.3	10.2 500.4	8.48 inf	6.85 inf	5.38 inf	4.13 inf	3.11 inf							
50.	20.6 inf	18.5 inf	14.7 inf	11.4 inf	8.61 inf	6.41 inf	4.71 inf	3.43 inf								