

HYPERFOCAL DISTANCE CHART

Version 5.0 | © James Tyson Photography | www.pbase.com/eos5d | CoC: 0.02 | Large Print: No | Adjusted CoC: 0.02

When you wish to shoot with maximum depth of field, you need to focus on a point known as the Hyperfocal Distance.
When the camera is focused at this point, everything in the picture should be sharp from half way between it and the camera, to infinity.

	f/1.0	f/1.4	f/2.0	f/2.8	f/4.0	f/5.6	f/8.0	f/11.0	f/16.0	f/22.0	f/32.0	f/45.0	f/64.0
10 mm	5.00 m	3.54 m	2.50 m	1.77 m	1.25 m	0.88 m	0.63 m	0.44 m	0.31 m	0.22 m	0.16 m	0.11 m	0.08 m
12 mm	7.20 m	5.09 m	3.60 m	2.55 m	1.80 m	1.27 m	0.90 m	0.64 m	0.45 m	0.32 m	0.23 m	0.16 m	0.11 m
14 mm	9.80 m	6.93 m	4.90 m	3.46 m	2.45 m	1.73 m	1.23 m	0.87 m	0.61 m	0.43 m	0.31 m	0.22 m	0.15 m
15 mm	11.25 m	7.95 m	5.63 m	3.98 m	2.81 m	1.99 m	1.41 m	0.99 m	0.70 m	0.50 m	0.35 m	0.25 m	0.18 m
16 mm	12.80 m	9.05 m	6.40 m	4.53 m	3.20 m	2.26 m	1.60 m	1.13 m	0.80 m	0.57 m	0.40 m	0.28 m	0.20 m
17 mm	14.45 m	10.22 m	7.23 m	5.11 m	3.61 m	2.55 m	1.81 m	1.28 m	0.90 m	0.64 m	0.45 m	0.32 m	0.23 m
18 mm	16.20 m	11.46 m	8.10 m	5.73 m	4.05 m	2.86 m	2.03 m	1.43 m	1.01 m	0.72 m	0.51 m	0.36 m	0.25 m
20 mm	20.00 m	14.14 m	10.00 m	7.07 m	5.00 m	3.54 m	2.50 m	1.77 m	1.25 m	0.88 m	0.63 m	0.44 m	0.31 m
22 mm	24.20 m	17.11 m	12.10 m	8.56 m	6.05 m	4.28 m	3.03 m	2.14 m	1.51 m	1.07 m	0.76 m	0.53 m	0.38 m
24 mm	28.80 m	20.36 m	14.40 m	10.18 m	7.20 m	5.09 m	3.60 m	2.55 m	1.80 m	1.27 m	0.90 m	0.64 m	0.45 m
28 mm	39.20 m	27.72 m	19.60 m	13.86 m	9.80 m	6.93 m	4.90 m	3.46 m	2.45 m	1.73 m	1.23 m	0.87 m	0.61 m
35 mm	61.25 m	43.31 m	30.63 m	21.66 m	15.31 m	10.83 m	7.66 m	5.41 m	3.83 m	2.71 m	1.91 m	1.35 m	0.96 m
40 mm	80.00 m	56.57 m	40.00 m	28.28 m	20.00 m	14.14 m	10.00 m	7.07 m	5.00 m	3.54 m	2.50 m	1.77 m	1.25 m
45 mm	101.25 m	71.59 m	50.63 m	35.80 m	25.31 m	17.90 m	12.66 m	8.95 m	6.33 m	4.47 m	3.16 m	2.24 m	1.58 m
50 mm	125.00 m	88.39 m	62.50 m	44.19 m	31.25 m	22.10 m	15.63 m	11.05 m	7.81 m	5.52 m	3.91 m	2.76 m	1.95 m
55 mm	151.25 m	106.95 m	75.63 m	53.47 m	37.81 m	26.74 m	18.91 m	13.37 m	9.45 m	6.68 m	4.73 m	3.34 m	2.36 m
60 mm	180.00 m	127.28 m	90.00 m	63.64 m	45.00 m	31.82 m	22.50 m	15.91 m	11.25 m	7.95 m	5.63 m	3.98 m	2.81 m
65 mm	211.25 m	149.38 m	105.63 m	74.69 m	52.81 m	37.34 m	26.41 m	18.67 m	13.20 m	9.34 m	6.60 m	4.67 m	3.30 m
70 mm	245.00 m	173.24 m	122.50 m	86.62 m	61.25 m	43.31 m	30.63 m	21.66 m	15.31 m	10.83 m	7.66 m	5.41 m	3.83 m
75 mm	281.25 m	198.87 m	140.63 m	99.44 m	70.31 m	49.72 m	35.16 m	24.86 m	17.58 m	12.43 m	8.79 m	6.21 m	4.39 m
80 mm	320.00 m	226.27 m	160.00 m	113.14 m	80.00 m	56.57 m	40.00 m	28.28 m	20.00 m	14.14 m	10.00 m	7.07 m	5.00 m
85 mm	361.25 m	255.44 m	180.63 m	127.72 m	90.31 m	63.86 m	45.16 m	31.93 m	22.58 m	15.97 m	11.29 m	7.98 m	5.64 m
90 mm	405.00 m	286.38 m	202.50 m	143.19 m	101.25 m	71.59 m	50.63 m	35.80 m	25.31 m	17.90 m	12.66 m	8.95 m	6.33 m
100 mm	500.00 m	353.55 m	250.00 m	176.78 m	125.00 m	88.39 m	62.50 m	44.19 m	31.25 m	22.10 m	15.63 m	11.05 m	7.81 m
105 mm	551.25 m	389.79 m	275.63 m	194.90 m	137.81 m	97.45 m	68.91 m	48.72 m	34.45 m	24.36 m	17.23 m	12.18 m	8.61 m
135 mm	911.25 m	644.35 m	455.63 m	322.18 m	227.81 m	161.09 m	113.91 m	80.54 m	56.95 m	40.27 m	28.48 m	20.14 m	14.24 m
180 mm	1,620.00 m	1,145.51 m	810.00 m	572.76 m	405.00 m	286.38 m	202.50 m	143.19 m	101.25 m	71.59 m	50.63 m	35.80 m	25.31 m
200 mm	2,000.00 m	1,414.21 m	1,000.00 m	707.11 m	500.00 m	353.55 m	250.00 m	176.78 m	125.00 m	88.39 m	62.50 m	44.19 m	31.25 m
300 mm	4,500.00 m	3,181.98 m	2,250.00 m	1,590.99 m	1,125.00 m	795.50 m	562.50 m	397.75 m	281.25 m	198.87 m	140.63 m	99.44 m	70.31 m
400 mm	8,000.00 m	5,656.85 m	4,000.00 m	2,828.43 m	2,000.00 m	1,414.21 m	1,000.00 m	707.11 m	500.00 m	353.55 m	250.00 m	176.78 m	125.00 m
500 mm	12,500.00 m	8,838.83 m	6,250.00 m	4,419.42 m	3,125.00 m	2,209.71 m	1,562.50 m	1,104.85 m	781.25 m	552.43 m	390.63 m	276.21 m	195.31 m
600 mm	18,000.00 m	12,727.92 m	9,000.00 m	6,363.96 m	4,500.00 m	3,181.98 m	2,250.00 m	1,590.99 m	1,125.00 m	795.50 m	562.50 m	397.75 m	281.25 m