

HYPERFOCAL DISTANCE CHART

Version 5.0 | © James Tyson Photography | www.pbase.com/eos5d | CoC: 0.019 | Large Print: No | Adjusted CoC: 0.019

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	5.26 m	3.72 m	2.63 m	1.86 m	1.32 m	0.93 m	0.66 m	0.47 m	0.33 m	0.23 m	0.16 m	0.12 m	0.08 m
12 mm	7.58 m	5.36 m	3.79 m	2.68 m	1.89 m	1.34 m	0.95 m	0.67 m	0.47 m	0.33 m	0.24 m	0.17 m	0.12 m
14 mm	10.32 m	7.29 m	5.16 m	3.65 m	2.58 m	1.82 m	1.29 m	0.91 m	0.64 m	0.46 m	0.32 m	0.23 m	0.16 m
15 mm	11.84 m	8.37 m	5.92 m	4.19 m	2.96 m	2.09 m	1.48 m	1.05 m	0.74 m	0.52 m	0.37 m	0.26 m	0.19 m
16 mm	13.47 m	9.53 m	6.74 m	4.76 m	3.37 m	2.38 m	1.68 m	1.19 m	0.84 m	0.60 m	0.42 m	0.30 m	0.21 m
17 mm	15.21 m	10.76 m	7.61 m	5.38 m	3.80 m	2.69 m	1.90 m	1.34 m	0.95 m	0.67 m	0.48 m	0.34 m	0.24 m
18 mm	17.05 m	12.06 m	8.53 m	6.03 m	4.26 m	3.01 m	2.13 m	1.51 m	1.07 m	0.75 m	0.53 m	0.38 m	0.27 m
20 mm	21.05 m	14.89 m	10.53 m	7.44 m	5.26 m	3.72 m	2.63 m	1.86 m	1.32 m	0.93 m	0.66 m	0.47 m	0.33 m
22 mm	25.47 m	18.01 m	12.74 m	9.01 m	6.37 m	4.50 m	3.18 m	2.25 m	1.59 m	1.13 m	0.80 m	0.56 m	0.40 m
24 mm	30.32 m	21.44 m	15.16 m	10.72 m	7.58 m	5.36 m	3.79 m	2.68 m	1.89 m	1.34 m	0.95 m	0.67 m	0.47 m
28 mm	41.26 m	29.18 m	20.63 m	14.59 m	10.32 m	7.29 m	5.16 m	3.65 m	2.58 m	1.82 m	1.29 m	0.91 m	0.64 m
35 mm	64.47 m	45.59 m	32.24 m	22.79 m	16.12 m	11.40 m	8.06 m	5.70 m	4.03 m	2.85 m	2.01 m	1.42 m	1.01 m
40 mm	84.21 m	59.55 m	42.11 m	29.77 m	21.05 m	14.89 m	10.53 m	7.44 m	5.26 m	3.72 m	2.63 m	1.86 m	1.32 m
45 mm	106.58 m	75.36 m	53.29 m	37.68 m	26.64 m	18.84 m	13.32 m	9.42 m	6.66 m	4.71 m	3.33 m	2.36 m	1.67 m
50 mm	131.58 m	93.04 m	65.79 m	46.52 m	32.89 m	23.26 m	16.45 m	11.63 m	8.22 m	5.82 m	4.11 m	2.91 m	2.06 m
55 mm	159.21 m	112.58 m	79.61 m	56.29 m	39.80 m	28.14 m	19.90 m	14.07 m	9.95 m	7.04 m	4.98 m	3.52 m	2.49 m
60 mm	189.47 m	133.98 m	94.74 m	66.99 m	47.37 m	33.49 m	23.68 m	16.75 m	11.84 m	8.37 m	5.92 m	4.19 m	2.96 m
65 mm	222.37 m	157.24 m	111.18 m	78.62 m	55.59 m	39.31 m	27.80 m	19.65 m	13.90 m	9.83 m	6.95 m	4.91 m	3.47 m
70 mm	257.89 m	182.36 m	128.95 m	91.18 m	64.47 m	45.59 m	32.24 m	22.79 m	16.12 m	11.40 m	8.06 m	5.70 m	4.03 m
75 mm	296.05 m	209.34 m	148.03 m	104.67 m	74.01 m	52.34 m	37.01 m	26.17 m	18.50 m	13.08 m	9.25 m	6.54 m	4.63 m
80 mm	336.84 m	238.18 m	168.42 m	119.09 m	84.21 m	59.55 m	42.11 m	29.77 m	21.05 m	14.89 m	10.53 m	7.44 m	5.26 m
85 mm	380.26 m	268.89 m	190.13 m	134.44 m	95.07 m	67.22 m	47.53 m	33.61 m	23.77 m	16.81 m	11.88 m	8.40 m	5.94 m
90 mm	426.32 m	301.45 m	213.16 m	150.73 m	106.58 m	75.36 m	53.29 m	37.68 m	26.64 m	18.84 m	13.32 m	9.42 m	6.66 m
100 mm	526.32 m	372.16 m	263.16 m	186.08 m	131.58 m	93.04 m	65.79 m	46.52 m	32.89 m	23.26 m	16.45 m	11.63 m	8.22 m
105 mm	580.26 m	410.31 m	290.13 m	205.15 m	145.07 m	102.58 m	72.53 m	51.29 m	36.27 m	25.64 m	18.13 m	12.82 m	9.07 m
135 mm	959.21 m	678.26 m	479.61 m	339.13 m	239.80 m	169.57 m	119.90 m	84.78 m	59.95 m	42.39 m	29.98 m	21.20 m	14.99 m
180 mm	1,705.26 m	1,205.80 m	852.63 m	602.90 m	426.32 m	301.45 m	213.16 m	150.73 m	106.58 m	75.36 m	53.29 m	37.68 m	26.64 m
200 mm	2,105.26 m	1,488.65 m	1,052.63 m	744.32 m	526.32 m	372.16 m	263.16 m	186.08 m	131.58 m	93.04 m	65.79 m	46.52 m	32.89 m
300 mm	4,736.84 m	3,349.45 m	2,368.42 m	1,674.73 m	1,184.21 m	837.36 m	592.11 m	418.68 m	296.05 m	209.34 m	148.03 m	104.67 m	74.01 m
400 mm	8,421.05 m	5,954.58 m	4,210.53 m	2,977.29 m	2,105.26 m	1,488.65 m	1,052.63 m	744.32 m	526.32 m	372.16 m	263.16 m	186.08 m	131.58 m
500 mm	13,157.89 m	9,304.04 m	6,578.95 m	4,652.02 m	3,289.47 m	2,326.01 m	1,644.74 m	1,163.00 m	822.37 m	581.50 m	411.18 m	290.75 m	205.59 m
600 mm	18,947.37 m	13,397.81 m	9,473.68 m	6,698.91 m	4,736.84 m	3,349.45 m	2,368.42 m	1,674.73 m	1,184.21 m	837.36 m	592.11 m	418.68 m	296.05 m