

# HYPERFOCAL DISTANCE CHART

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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	32.81 ft	23.20 ft	16.40 ft	11.60 ft	8.20 ft	5.80 ft	4.10 ft	2.90 ft	2.05 ft	1.45 ft	1.03 ft	0.72 ft	0.51 ft
12 mm	47.24 ft	33.41 ft	23.62 ft	16.70 ft	11.81 ft	8.35 ft	5.91 ft	4.18 ft	2.95 ft	2.09 ft	1.48 ft	1.04 ft	0.74 ft
14 mm	64.30 ft	45.47 ft	32.15 ft	22.74 ft	16.08 ft	11.37 ft	8.04 ft	5.68 ft	4.02 ft	2.84 ft	2.01 ft	1.42 ft	1.00 ft
15 mm	73.82 ft	52.20 ft	36.91 ft	26.10 ft	18.45 ft	13.05 ft	9.23 ft	6.52 ft	4.61 ft	3.26 ft	2.31 ft	1.63 ft	1.15 ft
16 mm	83.99 ft	59.39 ft	41.99 ft	29.69 ft	21.00 ft	14.85 ft	10.50 ft	7.42 ft	5.25 ft	3.71 ft	2.62 ft	1.86 ft	1.31 ft
17 mm	94.82 ft	67.05 ft	47.41 ft	33.52 ft	23.70 ft	16.76 ft	11.85 ft	8.38 ft	5.93 ft	4.19 ft	2.96 ft	2.10 ft	1.48 ft
18 mm	106.30 ft	75.16 ft	53.15 ft	37.58 ft	26.57 ft	18.79 ft	13.29 ft	9.40 ft	6.64 ft	4.70 ft	3.32 ft	2.35 ft	1.66 ft
20 mm	131.23 ft	92.80 ft	65.62 ft	46.40 ft	32.81 ft	23.20 ft	16.40 ft	11.60 ft	8.20 ft	5.80 ft	4.10 ft	2.90 ft	2.05 ft
22 mm	158.79 ft	112.28 ft	79.40 ft	56.14 ft	39.70 ft	28.07 ft	19.85 ft	14.04 ft	9.92 ft	7.02 ft	4.96 ft	3.51 ft	2.48 ft
24 mm	188.98 ft	133.63 ft	94.49 ft	66.81 ft	47.24 ft	33.41 ft	23.62 ft	16.70 ft	11.81 ft	8.35 ft	5.91 ft	4.18 ft	2.95 ft
28 mm	257.22 ft	181.88 ft	128.61 ft	90.94 ft	64.30 ft	45.47 ft	32.15 ft	22.74 ft	16.08 ft	11.37 ft	8.04 ft	5.68 ft	4.02 ft
35 mm	401.90 ft	284.19 ft	200.95 ft	142.09 ft	100.48 ft	71.05 ft	50.24 ft	35.52 ft	25.12 ft	17.76 ft	12.56 ft	8.88 ft	6.28 ft
40 mm	524.93 ft	371.18 ft	262.47 ft	185.59 ft	131.23 ft	92.80 ft	65.62 ft	46.40 ft	32.81 ft	23.20 ft	16.40 ft	11.60 ft	8.20 ft
45 mm	664.37 ft	469.78 ft	332.19 ft	234.89 ft	166.09 ft	117.45 ft	83.05 ft	58.72 ft	41.52 ft	29.36 ft	20.76 ft	14.68 ft	10.38 ft
50 mm	820.21 ft	579.98 ft	410.10 ft	289.99 ft	205.05 ft	144.99 ft	102.53 ft	72.50 ft	51.26 ft	36.25 ft	25.63 ft	18.12 ft	12.82 ft
55 mm	992.45 ft	701.77 ft	496.23 ft	350.89 ft	248.11 ft	175.44 ft	124.06 ft	87.72 ft	62.03 ft	43.86 ft	31.01 ft	21.93 ft	15.51 ft
60 mm	1,181.10 ft	835.17 ft	590.55 ft	417.58 ft	295.28 ft	208.79 ft	147.64 ft	104.40 ft	73.82 ft	52.20 ft	36.91 ft	26.10 ft	18.45 ft
65 mm	1,386.15 ft	980.16 ft	693.08 ft	490.08 ft	346.54 ft	245.04 ft	173.27 ft	122.52 ft	86.63 ft	61.26 ft	43.32 ft	30.63 ft	21.66 ft
70 mm	1,607.61 ft	1,136.75 ft	803.81 ft	568.38 ft	401.90 ft	284.19 ft	200.95 ft	142.09 ft	100.48 ft	71.05 ft	50.24 ft	35.52 ft	25.12 ft
75 mm	1,845.47 ft	1,304.95 ft	922.74 ft	652.47 ft	461.37 ft	326.24 ft	230.68 ft	163.12 ft	115.34 ft	81.56 ft	57.67 ft	40.78 ft	28.84 ft
80 mm	2,099.74 ft	1,484.74 ft	1,049.87 ft	742.37 ft	524.93 ft	371.18 ft	262.47 ft	185.59 ft	131.23 ft	92.80 ft	65.62 ft	46.40 ft	32.81 ft
85 mm	2,370.41 ft	1,676.13 ft	1,185.20 ft	838.07 ft	592.60 ft	419.03 ft	296.30 ft	209.52 ft	148.15 ft	104.76 ft	74.08 ft	52.38 ft	37.04 ft
90 mm	2,657.48 ft	1,879.12 ft	1,328.74 ft	939.56 ft	664.37 ft	469.78 ft	332.19 ft	234.89 ft	166.09 ft	117.45 ft	83.05 ft	58.72 ft	41.52 ft
100 mm	3,280.84 ft	2,319.90 ft	1,640.42 ft	1,159.95 ft	820.21 ft	579.98 ft	410.10 ft	289.99 ft	205.05 ft	144.99 ft	102.53 ft	72.50 ft	51.26 ft
105 mm	3,617.13 ft	2,557.69 ft	1,808.56 ft	1,278.85 ft	904.28 ft	639.42 ft	452.14 ft	319.71 ft	226.07 ft	159.86 ft	113.04 ft	79.93 ft	56.52 ft
135 mm	5,979.33 ft	4,228.03 ft	2,989.67 ft	2,114.01 ft	1,494.83 ft	1,057.01 ft	747.42 ft	528.50 ft	373.71 ft	264.25 ft	186.85 ft	132.13 ft	93.43 ft
180 mm	10,629.92 ft	7,516.49 ft	5,314.96 ft	3,758.24 ft	2,657.48 ft	1,879.12 ft	1,328.74 ft	939.56 ft	664.37 ft	469.78 ft	332.19 ft	234.89 ft	166.09 ft
200 mm	13,123.36 ft	9,279.62 ft	6,561.68 ft	4,639.81 ft	3,280.84 ft	2,319.90 ft	1,640.42 ft	1,159.95 ft	820.21 ft	579.98 ft	410.10 ft	289.99 ft	205.05 ft
300 mm	29,527.56 ft	20,879.14 ft	14,763.78 ft	10,439.57 ft	7,381.89 ft	5,219.78 ft	3,690.94 ft	2,609.89 ft	1,845.47 ft	1,304.95 ft	922.74 ft	652.47 ft	461.37 ft
400 mm	52,493.44 ft	37,118.47 ft	26,246.72 ft	18,559.23 ft	13,123.36 ft	9,279.62 ft	6,561.68 ft	4,639.81 ft	3,280.84 ft	2,319.90 ft	1,640.42 ft	1,159.95 ft	820.21 ft
500 mm	82,021.00 ft	57,997.60 ft	41,010.50 ft	28,998.80 ft	20,505.25 ft	14,499.40 ft	10,252.62 ft	7,249.70 ft	5,126.31 ft	3,624.85 ft	2,563.16 ft	1,812.43 ft	1,281.58 ft
600 mm	118,110.24 ft	83,516.55 ft	59,055.12 ft	41,758.27 ft	29,527.56 ft	20,879.14 ft	14,763.78 ft	10,439.57 ft	7,381.89 ft	5,219.78 ft	3,690.94 ft	2,609.89 ft	1,845.47 ft