



OPTIMO 24-290

- 1 - Aperture
- 2 - Hyperfocal distance
- 3 - Object distance far/near
- 4 - Confusion circle : 0.025 mm

Distances in feet

F = 24 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	33'81"	24'07"	17'73"	12'71"	9'67"	7'01"	5'42"
3	Object distance	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near
	50 feet	∞ 20.71	∞ 16.74	∞ 13.52	∞ 10.49	∞ 8.4	∞ 6.38	∞ 5.08
	30 feet	259.92 16.46	∞ 13.91	∞ 11.67	∞ 9.39	∞ 7.72	∞ 6.02	∞ 4.87
	20 feet	46.15 13.09	111.75 11.48	∞ 9.96	∞ 8.31	∞ 7.01	∞ 5.61	∞ 4.63
	16 feet	28.56 11.35	44.08 10.15	159.42 8.97	∞ 7.64	∞ 6.55	∞ 5.35	∞ 4.46
	13 feet	19.84 9.84	25.96 8.95	44.06 8.05	∞ 6.99	∞ 6.1	∞ 5.06	∞ 4.29
	11 feet	15.31 8.71	18.57 8.03	25.91 7.32	75.36 6.46	∞ 5.71	∞ 4.82	∞ 4.12
	9 feet	11.52 7.47	13.17 6.99	16.27 6.47	26.66 5.81	140.82 5.23	∞ 4.5	∞ 3.91
	7 feet	8.3 6.11	9.05 5.8	10.28 5.47	13.27 5.02	21 4.61	∞ 4.07	∞ 3.61
	5 feet	5.53 4.59	5.8 4.44	6.2 4.27	7 4.03	8.37 3.79	13.35 3.47	75.85 3.17
	4 feet	4.28 3.77	4.42 3.68	4.61 3.58	4.97 3.43	5.52 3.28	6.97 3.06	10.88 2.85

F = 30 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	48'12"	34'08"	24'96"	17'72"	13'34"	9'52"	7'23"
3	Object distance	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near
	50 feet	∞ 25.08	∞ 20.81	∞ 17.15	∞ 13.52	∞ 10.9	∞ 8.29	∞ 6.55
	30 feet	76.28 19.01	239.14 16.52	∞ 14.18	∞ 11.67	∞ 9.71	∞ 7.63	∞ 6.17
	20 feet	32.72 14.59	45.48 13.13	93.37 11.66	∞ 9.96	∞ 8.54	∞ 6.94	∞ 5.74
	16 feet	22.91 12.42	28.3 11.37	40.99 10.28	152.6 8.97	∞ 7.83	∞ 6.49	∞ 5.46
	13 feet	17.03 10.6	19.72 9.86	24.9 9.05	43.54 8.05	606.66 7.15	∞ 6.04	∞ 5.16
	11 feet	13.64 9.29	15.24 8.72	18.04 8.11	25.74 7.32	54.62 6.59	∞ 5.66	∞ 4.9
	9 feet	10.59 7.87	11.48 7.48	12.91 7.04	16.2 6.47	23.65 5.92	161.19 5.19	∞ 4.57
	7 feet	7.84 6.35	8.28 6.11	8.93 5.84	10.25 5.47	12.54 5.09	21.37 4.58	302.81 4.12
	5 feet	5.35 4.7	5.52 4.59	5.76 4.46	6.19 4.27	6.83 4.07	8.42 3.78	12.13 3.5
	4 feet	4.19 3.83	4.28 3.77	4.4 3.69	4.61 3.58	4.9 3.45	5.54 3.27	6.67 3.08



OPTIMO 24-290

- 1 - Aperture
- 2 - Hyperfocal distance
- 3 - Object distance far/near
- 4 - Confusion circle : 0.025 mm

Distances in feet

F = 40 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	84'56"	59'61"	43'38"	30'52"	22'73"	15'93"	11'87"
3	Object distance	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>
	50 feet	119.02 31.95	297.27 27.75	∞ 23.79	∞ 19.48	∞ 16.11	∞ 12.49	∞ 9.93
	30 feet	45.27 22.58	58.11 20.46	92.09 18.28	1499.02 15.69	∞ 13.49	∞ 10.92	∞ 8.96
	20 feet	25.51 16.52	28.98 15.4	35.21 14.17	53.72 12.62	148.25 11.2	∞ 9.42	∞ 7.97
	16 feet	19.23 13.75	21.07 12.98	24.07 12.13	31.19 11	48.65 9.94	∞ 8.55	∞ 7.37
	13 feet	14.97 11.52	16.02 11	17.64 10.4	21.03 9.58	27.43 8.79	60.42 7.72	∞ 6.77
	11 feet	12.33 9.95	13 9.57	14.01 9.13	15.99 8.52	19.28 7.9	30.61 7.05	118.37 6.27
	9 feet	9.82 8.32	10.22 8.07	10.8 7.76	11.88 7.34	13.5 6.9	17.9 6.27	30.35 5.67
	7 feet	7.44 6.61	7.66 6.46	7.95 6.28	8.47 6.02	9.19 5.74	10.85 5.33	14.05 4.93
	5 feet	5.19 4.83	5.27 4.76	5.39 4.67	5.59 4.55	5.85 4.41	6.37 4.2	7.18 3.97
	4 feet	4.1 3.9	4.15 3.87	4.21 3.82	4.31 3.74	4.44 3.66	4.69 3.53	5.05 3.39

F = 55 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	158'82"	111'65"	80'96"	56'65"	41'92"	29'07"	21'38"
3	Object distance	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>
	50 feet	71.91 38.44	88.62 35.01	126.64 31.44	398.63 27.12	∞ 23.36	∞ 18.9	∞ 15.45
	30 feet	36.46 25.53	40.19 24.02	46.3 22.33	61.05 20.12	98.75 18.03	∞ 15.33	∞ 13.03
	20 feet	22.56 17.98	23.88 17.25	25.83 16.39	29.67 15.21	36.1 14.03	58.44 12.39	244.74 10.9
	16 feet	17.55 14.72	18.31 14.24	19.4 13.66	21.42 12.86	24.47 12.03	32.68 10.83	55.63 9.7
	13 feet	13.97 12.17	14.43 11.85	15.07 11.46	16.22 10.91	17.84 10.32	21.67 9.46	29.43 8.61
	11 feet	11.66 10.42	11.97 10.19	12.39 9.91	13.13 9.51	14.13 9.08	16.34 8.42	20.22 7.76
	9 feet	9.41 8.63	9.6 8.48	9.86 8.29	10.3 8.02	10.87 7.73	12.06 7.27	13.93 6.8
	7 feet	7.23 6.79	7.33 6.7	7.47 6.6	7.69 6.44	7.98 6.26	8.55 5.98	9.37 5.68
	5 feet	5.1 4.91	5.14 4.87	5.2 4.82	5.29 4.75	5.4 4.66	5.62 4.53	5.91 4.38
	4 feet	4.05 3.95	4.08 3.93	4.11 3.9	4.16 3.86	4.22 3.81	4.33 3.73	4.47 3.64



OPTIMO 24-290

- 1 - Aperture
- 2 - Hyperfocal distance
- 3 - Object distance far/near
- 4 - Confusion circle : 0.025 mm

Distances in feet

F = 75 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	294'35"	206'65"	149'60"	104'39"	77'01"	53'10"	38'82"
3	Object distance	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near
	50 feet	59.76 43.02	65.22 40.61	73.9 37.9	93.65 34.3	137.34 30.85	743.39 26.32	∞ 22.41
	30 feet	33.15 27.41	34.71 26.44	36.95 25.3	41.16 23.69	47.61 22.04	65.57 19.69	121.06 17.48
	20 feet	21.3 18.86	21.91 18.41	22.74 17.87	24.21 17.08	26.21 16.24	30.65 14.97	38.6 13.7
	16 feet	16.79 15.28	17.16 15	17.65 14.65	18.49 14.13	19.61 13.56	21.91 12.69	25.56 11.79
	13 feet	13.5 12.54	13.73 12.35	14.03 12.12	14.54 11.78	15.19 11.39	16.49 10.79	18.39 10.16
	11 feet	11.34 10.68	11.5 10.55	11.7 10.38	12.04 10.14	12.47 9.86	13.3 9.42	14.46 8.95
	9 feet	9.22 8.79	9.31 8.71	9.44 8.6	9.65 8.44	9.91 8.26	10.4 7.96	11.06 7.64
	7 feet	7.12 6.88	7.17 6.84	7.24 6.78	7.35 6.68	7.49 6.58	7.74 6.4	8.07 6.21
	5 feet	5.05 4.95	5.07 4.93	5.1 4.9	5.15 4.86	5.21 4.81	5.31 4.73	5.44 4.64
	4 feet	4.03 3.97	4.04 3.96	4.06 3.95	4.08 3.92	4.11 3.9	4.17 3.85	4.24 3.8

F = 105 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	575'83"	404'05"	292'25"	203'64"	149'98"	103'12"	75'12"
3	Object distance	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near
	50 feet	54.54 46.17	56.74 44.71	59.84 42.97	65.5 40.5	73.79 37.92	94.61 34.17	143.49 30.56
	30 feet	31.53 28.62	32.23 28.07	33.17 27.39	34.79 26.4	36.92 25.31	41.34 23.63	48.3 21.9
	20 feet	20.64 19.4	20.93 19.16	21.31 18.85	21.94 18.39	22.73 17.88	24.26 17.05	26.41 16.16
	16 feet	16.39 15.62	16.57 15.47	16.8 15.28	17.18 14.98	17.65 14.65	18.53 14.11	19.72 13.51
	13 feet	13.25 12.76	13.36 12.66	13.5 12.53	13.74 12.34	14.03 12.12	14.56 11.76	15.25 11.36
	11 feet	11.17 10.83	11.25 10.76	11.35 10.68	11.51 10.54	11.7 10.39	12.05 10.13	12.51 9.84
	9 feet	9.11 8.89	9.16 8.85	9.22 8.79	9.32 8.71	9.44 8.6	9.66 8.44	9.93 8.24
	7 feet	7.06 6.94	7.09 6.92	7.12 6.88	7.18 6.83	7.24 6.78	7.36 6.68	7.5 6.57
	5 feet	5.03 4.97	5.04 4.96	5.05 4.95	5.08 4.93	5.1 4.9	5.15 4.86	5.21 4.81
	4 feet	4.01 3.99	4.02 3.98	4.03 3.97	4.04 3.96	4.06 3.95	4.08 3.92	4.12 3.89

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OPTIMO 24-290

- 1 - Aperture
- 2 - Hyperfocal distance
- 3 - Object distance far/near
- 4 - Confusion circle : 0.025 mm

Distances in feet

F = 155 mm

F = 215 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	1192'5"	879'42"	635'83"	442'73"	325'80"	223'69"	162'67"
3	Object distance	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near
	50 feet	52.09 48.07	52.88 47.42	54.08 46.51	56.08 45.13	58.65 43.61	63.72 41.2	71.13 38.65
	30 feet	30.72 29.32	30.98 29.08	31.38 28.74	32.02 28.23	32.82 27.64	34.3 26.68	36.27 25.62
	20 feet	20.3 19.71	20.41 19.6	20.58 19.45	20.84 19.23	21.16 18.96	21.75 18.52	22.49 18.03
	16 feet	16.19 15.82	16.26 15.75	16.36 15.66	16.52 15.52	16.71 15.35	17.06 15.07	17.51 14.75
	13 feet	13.12 12.88	13.16 12.84	13.23 12.78	13.33 12.69	13.45 12.58	13.67 12.4	13.94 12.19
	11 feet	11.08 10.92	11.11 10.89	11.16 10.85	11.23 10.78	11.31 10.71	11.46 10.58	11.64 10.43
	9 feet	9.05 8.95	9.07 8.93	9.1 8.9	9.14 8.86	9.2 8.81	9.29 8.73	9.4 8.63
	7 feet	7.03 6.97	7.04 6.96	7.05 6.95	7.08 6.92	7.11 6.9	7.16 6.85	7.22 6.79
	5 feet	5.01 4.99	5.02 4.98	5.02 4.98	5.03 4.97	5.05 4.95	5.07 4.93	5.1 4.91
	4 feet	4.01 3.99	4.01 3.99	4.01 3.99	4.02 3.98	4.03 3.97	4.04 3.96	4.05 3.95

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	2144'27"	1691'96"	1222'98"	851'26"	626'20"	429'70"	312'28"
3	Object distance	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near	<u>Far</u> Near
	50 feet	51.14 48.91	51.45 48.63	52.04 48.12	52.98 47.34	54.15 46.46	56.29 45	59.11 43.37
	30 feet	30.39 29.62	30.5 29.52	30.7 29.33	31.02 29.05	31.4 28.73	32.09 28.18	32.95 27.55
	20 feet	20.17 19.84	20.21 19.79	20.3 19.71	20.43 19.59	20.59 19.45	20.87 19.2	21.22 18.92
	16 feet	16.1 15.9	16.13 15.87	16.18 15.82	16.26 15.74	16.36 15.65	16.53 15.5	16.75 15.32
	13 feet	13.07 12.93	13.08 12.92	13.12 12.89	13.17 12.84	13.23 12.78	13.34 12.68	13.47 12.56
	11 feet	11.05 10.95	11.06 10.94	11.08 10.92	11.12 10.89	11.16 10.85	11.23 10.78	11.32 10.7
	9 feet	9.03 8.97	9.04 8.96	9.05 8.95	9.07 8.93	9.1 8.9	9.15 8.86	9.2 8.81
	7 feet	7.02 6.98	7.02 6.98	7.03 6.97	7.04 6.96	7.06 6.95	7.08 6.92	7.11 6.89
	5 feet	5.01 4.99	5.01 4.99	5.01 4.99	5.02 4.98	5.02 4.98	5.04 4.97	5.05 4.95
	4 feet	4 4	4 4	4.01 3.99	4.01 3.99	4.01 3.99	4.02 3.98	4.03 3.97

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OPTIMO 24-290

- 1 - Aperture
- 2 - Hyperfocal distance
- 3 - Object distance far/near
- 4 - Confusion circle : 0.025 mm

Distances in feet

F = 290 mm

1	Aperture	T : 2.80	T : 4.03	T : 5.59	T : 8.05	T : 10.96	T : 16	T : 22.04
2	Hyperfocal distance	3426'16"	2874'70"	2075'59"	1443'96"	1061'87"	728'41"	529'20"
3	Object distance	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>	<u>Far</u> <u>Near</u>
	50 feet	50.71 49.31	50.85 49.18	51.18 48.87	51.71 48.4	52.36 47.85	53.52 46.92	54.99 45.86
	30 feet	30.25 29.76	30.29 29.71	30.41 29.6	30.59 29.43	30.81 29.23	31.19 28.9	31.67 28.5
	20 feet	20.1 19.9	20.12 19.88	20.17 19.83	20.25 19.76	20.34 19.67	20.5 19.52	20.7 19.35
	16 feet	16.06 15.94	16.08 15.92	16.11 15.89	16.16 15.85	16.21 15.79	16.31 15.7	16.43 15.59
	13 feet	13.04 12.96	13.05 12.95	13.07 12.93	13.1 12.9	13.13 12.87	13.2 12.81	13.27 12.74
	11 feet	11.03 10.97	11.03 10.97	11.05 10.95	11.07 10.93	11.09 10.91	11.14 10.87	11.19 10.82
	9 feet	9.02 8.98	9.02 8.98	9.03 8.97	9.04 8.96	9.06 8.94	9.09 8.92	9.12 8.88
	7 feet	7.01 6.99	7.01 6.99	7.02 6.98	7.02 6.98	7.03 6.97	7.05 6.95	7.07 6.94
	5 feet	5 5	5.01 4.99	5.01 4.99	5.01 4.99	5.01 4.99	5.02 4.98	5.03 4.97
	4 feet	4 4	4 4	4 4	4.01 3.99	4.01 3.99	4.01 3.99	4.02 3.98

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