

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

OPTIMO 45-120

Distances in feet

F = 45 mm

F = 50 mm

1	Aperture	T 2.8	T 4	T 5.6	T 8	T11	T16	T22
2	Hyperfocal distance	105.583	76.532	54.33	38.576	27.438	19.547	13.966
3	Object distance	Far Near	Far Near	Far Near	Far Near	Far Near	Far Near	Far Near
	60 feet	138.688 38.413	279.87 33.797	∞ 28.679	∞ 23.639	∞ 18.972	∞ 14.868	∞ 11.432
	30 feet	41.695 23.477	49.05 21.687	66.679 19.482	136.836 17.041	∞ 14.499	∞ 11.996	∞ 9.676
	20 feet	24.536 16.905	26.881 15.967	31.374 14.751	41.2 13.323	74.455 11.733	∞ 10.055	∞ 8.388
	16 feet	18.749 13.971	20.075 13.33	22.456 12.478	27.03 11.449	38.097 10.264	92.406 8.966	∞ 7.627
	14 feet	16.045 12.43	17.001 11.923	18.667 11.241	21.7 10.404	28.245 9.422	49.814 8.323	∞ 7.162
	12 feet	13.458 10.837	14.118 10.452	15.238 9.929	17.181 9.275	21.003 8.493	30.852 7.596	95.314 6.625
	10 feet	10.98 9.188	11.409 8.913	12.121 8.534	13.303 8.052	15.455 7.462	20.126 6.769	35.678 5.995
	8 feet	8.603 7.481	8.86 7.301	9.275 7.049	9.938 6.723	11.068 6.313	13.227 5.818	18.403 5.246
	6 feet	6.322 5.712	6.455 5.61	6.666 5.464	6.991 5.272	7.514 5.024	8.417 4.715	10.183 4.343
	5 feet	5.216 4.803	5.304 4.733	5.441 4.631	5.65 4.496	5.978 4.319	6.52 4.094	7.502 3.817
	4 feet	4.131 3.878	4.184 3.834	4.266 3.769	4.388 3.683	4.575 3.568	4.873 3.419	5.377 3.231
	3 feet 1 inch	3.156 3.015	3.185 2.99	3.229 2.953	3.294 2.903	3.391 2.835	3.542 2.746	3.783 2.631

1	Aperture	T 2.8	T 4	T 5.6	T 8	T11	T16	T22
2	Hyperfocal distance	126.819	91.909	65.223	46.283	32.893	23.406	16.597
3	Object distance	Far Near	Far Near	Far Near	Far Near	Far Near	Far Near	Far Near
	60 feet	113.562 40.876	172.819 36.461	791.092 31.418	∞ 26.293	∞ 21.399	∞ 16.973	∞ 13.176
	30 feet	39.122 24.364	44.296 22.742	55.236 20.693	85.237 18.362	376.356 15.858	∞ 13.314	∞ 10.882
	20 feet	23.632 17.354	25.403 16.524	28.617 15.427	34.91 14.107	50.828 12.596	146.55 10.953	∞ 9.268
	16 feet	18.221 14.274	19.247 13.712	21.019 12.955	24.195 12.019	30.828 10.913	50.764 9.667	722.612 8.34
	14 feet	15.659 12.668	16.406 12.227	17.669 11.624	19.844 10.869	24.065 9.962	34.607 8.919	93.491 7.784
	12 feet	13.188 11.016	13.709 10.683	14.572 10.224	16.007 9.64	18.618 8.925	24.296 8.085	43.265 7.148
	10 feet	10.801 9.315	11.144 9.078	11.7 8.748	12.596 8.322	14.138 7.79	17.144 7.15	24.692 6.415
	8 feet	8.495 7.563	8.702 7.409	9.031 7.192	9.545 6.906	10.388 6.542	11.893 6.092	15.019 5.559
	6 feet	6.265 5.758	6.373 5.671	6.543 5.547	6.8 5.381	7.204 5.164	7.873 4.887	9.086 4.548
	5 feet	5.178 4.835	5.25 4.775	5.361 4.689	5.528 4.573	5.785 4.419	6.197 4.22	6.903 3.971
	4 feet	4.108 3.898	4.152 3.86	4.218 3.806	4.317 3.732	4.465 3.633	4.697 3.503	5.075 3.336
	3 feet 1 inch	3.143 3.026	3.167 3.005	3.203 2.974	3.256 2.931	3.334 2.874	3.453 2.796	3.64 2.695

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

OPTIMO 45-120

Distances in feet

F = 55 mm

F = 70 mm

1	Aperture	T 2.8	T 4	T 5.6	T 8	T11	T16	T22
2	Hyperfocal distance	153.32	111.099	78.816	55.901	39.699	28.221	20.102
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
	60 feet	98.299 43.259	130.173 39.112	252.958 34.231	∞ 29.106	∞ 24.052	∞ 19.339	∞ 15.183
	30 feet	37.157 25.182	40.9 23.734	48.163 21.863	64.461 19.675	124.273 17.252	∞ 14.71	∞ 12.199
	20 feet	22.908 17.761	24.261 17.036	26.615 16.061	30.88 14.861	39.996 13.45	69.21 11.869	∞ 10.195
	16 feet	17.791 14.545	18.589 14.06	19.928 13.394	22.204 12.556	26.512 11.542	36.687 10.367	81.59 9.077
	14 feet	15.343 12.88	15.929 12.5	16.896 11.975	18.493 11.304	21.366 10.48	27.467 9.508	46.511 8.417
	12 feet	12.965 11.174	13.377 10.889	14.046 10.492	15.123 9.978	16.973 9.335	20.573 8.562	29.563 7.674
	10 feet	10.653 9.426	10.926 9.225	11.363 8.942	12.049 8.57	13.18 8.097	15.223 7.515	19.576 6.83
	8 feet	8.404 7.635	8.571 7.505	8.832 7.319	9.233 7.073	9.871 6.753	10.952 6.351	12.992 5.862
	6 feet	6.217 5.799	6.305 5.725	6.441 5.62	6.645 5.478	6.958 5.29	7.461 5.047	8.324 4.743
	5 feet	5.146 4.863	5.204 4.813	5.294 4.74	5.428 4.641	5.629 4.509	5.945 4.335	6.466 4.115
	4 feet	4.089 3.915	4.124 3.884	4.178 3.838	4.258 3.776	4.376 3.691	4.556 3.579	4.843 3.433
	3 feet 1 inch	3.133 3.036	3.152 3.018	3.181 2.992	3.224 2.956	3.287 2.907	3.382 2.841	3.527 2.754

1	Aperture	T 2.8	T 4	T 5.6	T 8	T11	T16	T22
2	Hyperfocal distance	247.937	179.626	127.357	90.244	64.001	45.407	32.257
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
	60 feet	78.983 48.414	89.858 45.102	113.165 40.931	179.268 36.199	1047.3 31.135	∞ 26.011	∞ 21.131
	30 feet	34.045 26.826	35.897 25.789	39.076 24.384	44.703 22.641	56.185 20.571	88.614 18.226	502.253 15.712
	20 feet	21.699 18.553	22.428 18.057	23.615 17.364	25.535 16.471	28.866 15.36	35.457 14.027	52.588 12.505
	16 feet	17.059 15.068	17.503 14.742	18.211 14.281	19.322 13.676	21.152 12.908	24.454 11.961	31.461 10.345
	14 feet	14.799 13.286	15.13 13.033	15.652 12.673	16.461 12.198	17.762 11.586	20.017 10.822	24.446 9.906
	12 feet	12.577 11.476	12.813 11.288	13.183 11.02	13.746 10.661	14.634 10.195	16.118 9.603	18.344 8.88
	10 feet	10.393 9.637	10.551 9.506	10.798 9.317	11.168 9.063	11.74 8.728	12.664 8.295	14.266 7.756
	8 feet	8.245 7.77	8.342 7.686	8.493 7.565	8.716 7.399	9.054 7.178	9.584 6.888	10.456 6.519
	6 feet	6.132 5.874	6.184 5.827	6.264 5.759	6.381 5.666	6.555 5.539	6.819 5.37	7.235 5.15
	5 feet	5.089 4.914	5.124 4.882	5.177 4.836	5.255 4.771	5.369 4.684	5.54 4.565	5.804 4.409
	4 feet	4.055 3.947	4.076 3.927	4.108 3.898	4.155 3.858	4.223 3.803	4.324 3.727	4.477 3.626
	3 feet 1 inch	3.114 3.054	3.125 3.043	3.143 3.026	3.169 3.003	3.206 2.972	3.26 2.928	3.34 2.87

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

OPTIMO 45-120

Distances in feet

F = 80 mm

F = 120 mm

1	Aperture	T 2.8	T 4	T 5.6	T 8	T11	T16	T22
2	Hyperfocal distance	323.603	234.443	166.19	117.717	83.439	59.153	41.977
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
	60 feet	73.526 50.703	80.456 47.882	93.655 44.214	122.123 39.893	214.593 35.065	∞ 29.954	∞ 24.86
	30 feet	33.001 27.507	34.313 26.664	36.481 25.499	40.079 24.016	46.594 22.197	60.615 20.055	106.073 17.659
	20 feet	21.275 18.873	21.806 18.476	22.652 17.916	23.973 17.179	26.134 16.238	29.979 15.074	37.926 13.693
	16 feet	16.799 15.276	17.125 15.018	17.638 14.649	18.421 14.156	19.66 13.516	21.739 12.707	25.594 11.719
	14 feet	14.604 13.446	14.848 13.247	15.23 12.96	15.807 12.576	16.704 12.071	18.171 11.425	20.769 10.625
	12 feet	12.437 11.594	12.612 11.447	12.884 11.234	13.291 10.946	13.914 10.565	14.909 10.071	16.598 9.449
	10 feet	10.298 9.72	10.416 9.617	10.599 9.468	10.869 9.266	11.277 8.994	11.914 8.638	12.955 8.181
	8 feet	8.186 7.823	8.259 7.758	8.372 7.662	8.536 7.531	8.781 7.354	9.155 7.118	9.746 6.811
	6 feet	6.101 5.903	6.14 5.867	6.2 5.814	6.287 5.74	6.415 5.64	6.606 5.504	6.898 5.324
	5 feet	5.068 4.934	5.094 4.909	5.134 4.873	5.193 4.823	5.277 4.754	5.402 4.659	5.591 4.533
	4 feet	4.042 3.959	4.058 3.944	4.082 3.922	4.117 3.89	4.168 3.847	4.243 3.787	4.353 3.707
	3 feet 1 inch	3.106 3.061	3.115 3.052	3.129 3.039	3.148 3.022	3.176 2.997	3.216 2.963	3.275 2.916

1	Aperture	T 2.8	T 4	T 5.6	T 8	T11	T16	T22
2	Hyperfocal distance	665.345	509.377	361.002	255.562	180.983	128.14	90.77
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
	60 feet	65.886 55.087	67.932 53.74	71.849 51.53	78.256 48.695	89.562 45.186	112.677 41.01	177.834 36.283
	30 feet	31.386 28.733	31.838 28.366	32.663 27.746	33.911 26.911	35.85 25.816	39.018 24.412	44.315 22.373
	20 feet	20.6 19.435	20.791 19.269	21.136 18.983	21.645 18.593	22.41 18.07	23.594 17.378	25.507 16.488
	16 feet	16.378 15.64	16.498 15.532	16.712 15.348	17.026 15.094	17.492 14.75	18.198 14.29	19.305 13.388
	14 feet	14.287 13.725	14.377 13.643	14.539 13.501	14.774 13.306	15.121 13.039	15.643 12.681	16.449 12.207
	12 feet	12.208 11.799	12.274 11.739	12.39 11.635	12.56 11.491	12.807 11.293	13.176 11.025	13.738 10.368
	10 feet	10.142 9.862	10.187 9.82	10.266 9.748	10.381 9.648	10.547 9.51	10.793 9.321	11.163 9.068
	8 feet	8.089 7.913	8.117 7.887	8.166 7.841	8.237 7.777	8.34 7.689	8.49 7.567	8.713 7.402
	6 feet	6.049 5.952	6.064 5.938	6.09 5.913	6.128 5.878	6.183 5.828	6.263 5.761	6.379 5.667
	5 feet	5.033 4.968	5.043 4.958	5.061 4.941	5.086 4.917	5.123 4.883	5.176 4.837	5.254 4.773
	4 feet	4.02 3.98	4.026 3.974	4.037 3.964	4.053 3.949	4.075 3.928	4.107 3.899	4.154 3.859
	3.083 feet	3.094 3.072	3.098 3.069	3.104 3.063	3.113 3.055	3.125 3.043	3.143 3.027	3.168 3.004