



OPTIMO 56 - 152

DEPTH-OF-FIELD TABLES
DISTANCE IN FEET

Angenieux®





DEPTH-OF-FIELD TABLES

F = 56 - 152 mm

The depth of field tables are provided for informational purposes only and are estimated with a circle of confusion of 0.025mm (1/1000inch). The width of the sharpness zone grows proportionally with the focus distance and aperture and it is inversely proportional to the focal length. In practice the depth of field limits can only be defined accurately by performing screen tests in true shooting conditions.





TABLES DE PROFONDEUR DE CHAMP

F = 56 - 152 mm

Les tables de profondeur de champs sont fournies à titre indicatif pour un cercle de confusion moyen de 0,025mm (1/1000inch)

La profondeur de champ augmente proportionnellement avec la distance de mise au point ainsi qu'avec le diaphragme et est inversement proportionnelle à la focale.

Dans la pratique, seuls des essais filmés dans des conditions de tournage vous permettront de définir les bornes de cette profondeur de champ avec un maximum de précision



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		27.48	19.947	14.299	10.681	7.457	5.498
60 feet	Far	229.543	∞	∞	∞	∞	∞
	Near	34.796	29.842	24.816	20.158	15.952	12.351
30 feet	Far	46.974	60.989	107.464	∞	∞	∞
	Near	22.15	20.074	17.712	15.25	12.758	10.387
20 feet	Far	26.166	29.911	37.739	59.794	404.968	∞
	Near	16.245	15.122	13.769	12.263	10.629	8.96
12 feet	Far	13.876	14.816	16.43	19.407	26.378	56.063
	Near	10.595	10.126	9.526	8.809	7.967	7.027
10 feet	Far	11.237	11.832	12.814	14.51	17.981	27.772
	Near	9.025	8.69	8.253	7.721	7.08	6.343
8 feet	Far	8.744	9.087	9.634	10.528	12.173	15.815
	Near	7.383	7.165	6.875	6.514	6.066	5.533

Distance in feet | Confusion circle : 0.025 mm

F = 56 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		27.48	19.947	14.299	10.681	7.457	5.498
6 feet	Far	6.384	6.554	6.817	7.226	7.917	9.215
	Near	5.665	5.543	5.378	5.166	4.896	4.561
5 feet	Far	5.251	5.36	5.526	5.778	6.189	6.912
	Near	4.776	4.693	4.579	4.432	4.24	3.998
4 feet	Far	4.147	4.209	4.303	4.443	4.664	5.031
	Near	3.866	3.815	3.745	3.653	3.53	3.372
3 feet	Far	3.071	3.101	3.146	3.21	3.309	3.465
	Near	2.933	2.907	2.871	2.823	2.759	2.673
2 feet 1 inch	Far	2.11	2.12	2.136	2.159	2.192	2.244
	Near	2.058	2.048	2.035	2.016	1.99	1.955

Distance in feet | Confusion circle : 0.025 mm

F = 56 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		36.285	26.285	18.786	13.983	9.703	7.101
60 feet	Far	113.925	178.68	1009.93	∞	∞	∞
	Near	40.901	36.326	31.32	26.322	21.48	17.061
30 feet	Far	39.041	44.441	55.571	85.696	400.565	∞
	Near	24.421	22.747	20.717	18.449	15.978	13.442
20 feet	Far	23.558	25.378	28.574	34.711	50.405	148.739
	Near	17.406	16.557	15.477	14.201	12.719	11.089
12 feet	Far	13.138	13.661	14.495	15.854	18.348	23.825
	Near	11.055	10.72	10.276	9.721	9.032	8.212
10 feet	Far	10.759	11.099	11.631	12.469	13.923	16.783
	Near	9.349	9.114	8.798	8.397	7.888	7.268
8 feet	Far	8.461	8.663	8.972	9.445	10.226	11.631
	Near	7.591	7.441	7.236	6.971	6.628	6.199

Distance in feet | Confusion circle : 0.025 mm

F = 70 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		36.285	26.285	18.786	13.983	9.703	7.101
6 feet	Far	6.241	6.343	6.497	6.727	7.09	7.697
	Near	5.78	5.697	5.583	5.433	5.234	4.977
5 feet	Far	5.158	5.224	5.323	5.469	5.695	6.06
	Near	4.853	4.798	4.72	4.617	4.479	4.298
4 feet	Far	4.093	4.131	4.189	4.272	4.398	4.596
	Near	3.912	3.879	3.831	3.768	3.682	3.568
3 feet	Far	3.045	3.064	3.091	3.131	3.189	3.279
	Near	2.956	2.94	2.916	2.883	2.839	2.779
2 feet 1 inch	Far	2.1	2.107	2.117	2.131	2.151	2.182
	Near	2.067	2.061	2.052	2.039	2.022	1.998

Distance in feet | Confusion circle : 0.025 mm

F = 70 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		56.356	40.733	29.017	21.511	14.824	10.759
60 feet	Far	83.969	100.059	138.325	297.667	∞	∞
	Near	46.773	43.007	38.564	33.747	28.669	23.633
30 feet	Far	34.87	37.307	41.495	49.23	67.359	144.952
	Near	26.354	25.14	23.585	21.729	19.547	17.113
20 feet	Far	22.004	22.929	24.41	26.836	31.332	41.418
	Near	18.345	17.76	16.987	16.022	14.828	13.412
12 feet	Far	12.662	12.949	13.388	14.054	15.141	17.06
	Near	11.409	11.19	10.891	10.503	9.998	9.361
10 feet	Far	10.445	10.635	10.922	11.351	12.033	13.185
	Near	9.595	9.443	9.234	8.96	8.598	8.132
8 feet	Far	8.272	8.387	8.558	8.81	9.201	9.836
	Near	7.747	7.651	7.518	7.341	7.104	6.794

Distance in feet | Confusion circle : 0.025 mm

F = 90 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		56.356	40.733	29.017	21.511	14.824	10.759
6 feet	Far	6.143	6.202	6.29	6.417	6.61	6.911
	Near	5.865	5.813	5.74	5.642	5.509	5.331
5 feet	Far	5.094	5.133	5.19	5.272	5.395	5.584
	Near	4.91	4.875	4.826	4.76	4.67	4.547
4 feet	Far	4.056	4.078	4.112	4.159	4.23	4.336
	Near	3.946	3.926	3.896	3.856	3.8	3.724
3 feet	Far	3.027	3.038	3.054	3.077	3.111	3.161
	Near	2.974	2.963	2.948	2.928	2.9	2.861
2 feet 1 inch	Far	2.093	2.097	2.103	2.112	2.124	2.142
	Near	2.073	2.07	2.064	2.056	2.046	2.03

Distance in feet | Confusion circle : 0.025 mm

F = 90 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		104.503	75.393	53.561	39.577	27.117	19.543
60 feet	Far	74.126	81.902	96.466	128.374	245.303	∞
	Near	50.455	47.442	43.713	39.424	34.601	29.479
30 feet	Far	33.085	34.516	36.807	40.572	47.586	63.493
	Near	27.458	26.56	25.374	23.897	22.072	19.912
20 feet	Far	21.295	21.866	22.743	24.094	26.351	30.488
	Near	18.861	18.442	17.875	17.144	16.204	15.033
12 feet	Far	12.434	12.618	12.892	13.296	13.925	14.95
	Near	11.598	11.445	11.234	10.953	10.578	10.087
10 feet	Far	10.292	10.415	10.597	10.863	11.269	11.915
	Near	9.726	9.62	9.473	9.278	9.013	8.662
8 feet	Far	8.18	8.254	8.364	8.523	8.762	9.134
	Near	7.829	7.763	7.671	7.546	7.376	7.147

Distance in feet | Confusion circle : 0.025 mm

F = 110 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		104.503	75.393	53.561	39.577	27.117	19.543
6 feet	Far	6.095	6.134	6.191	6.272	6.393	6.577
	Near	5.909	5.873	5.823	5.755	5.661	5.533
5 feet	Far	5.062	5.088	5.125	5.178	5.257	5.374
	Near	4.94	4.916	4.882	4.837	4.773	4.686
4 feet	Far	4.037	4.052	4.074	4.105	4.15	4.218
	Near	3.964	3.95	3.93	3.902	3.864	3.81
3 feet	Far	3.018	3.025	3.036	3.051	3.073	3.105
	Near	2.982	2.975	2.965	2.951	2.932	2.905
2 feet 1 inch	Far	2.09	2.093	2.097	2.102	2.11	2.122
	Near	2.077	2.074	2.07	2.065	2.058	2.047

Distance in feet | Confusion circle : 0.025 mm

F = 110 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		139.653	100.705	71.489	52.775	36.103	25.968
60 feet	Far	69.465	74.185	82.219	96.871	130.292	260.175
	Near	52.844	50.438	47.357	43.664	39.304	34.416
30 feet	Far	32.143	33.096	34.571	36.865	40.758	48.108
	Near	28.136	27.454	26.534	25.358	23.854	21.998
20 feet	Far	20.909	21.3	21.887	22.765	24.158	26.506
	Near	19.172	18.859	18.43	17.867	17.123	16.165
12 feet	Far	12.307	12.435	12.625	12.899	13.315	13.967
	Near	11.71	11.597	11.441	11.231	10.945	10.562
10 feet	Far	10.207	10.294	10.42	10.602	10.875	11.296
	Near	9.802	9.725	9.617	9.471	9.272	9.002
8 feet	Far	8.128	8.18	8.257	8.367	8.53	8.778
	Near	7.877	7.829	7.761	7.669	7.542	7.368

Distance in feet | Confusion circle : 0.025 mm

F = 130 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		139.653	100.705	71.489	52.775	36.103	25.968
6 feet	Far	6.067	6.095	6.135	6.192	6.276	6.401
	Near	5.935	5.909	5.872	5.822	5.753	5.657
5 feet	Far	5.044	5.063	5.089	5.126	5.181	5.262
	Near	4.957	4.939	4.915	4.882	4.835	4.77
4 feet	Far	4.026	4.037	4.053	4.074	4.106	4.153
	Near	3.974	3.964	3.949	3.929	3.901	3.862
3 feet	Far	3.013	3.018	3.026	3.036	3.052	3.074
	Near	2.987	2.982	2.975	2.965	2.951	2.931
2 feet 1 inch	Far	2.088	2.09	2.093	2.097	2.102	2.111
	Near	2.079	2.077	2.074	2.07	2.065	2.057

Distance in feet | Confusion circle : 0.025 mm

F = 130 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		181.884	131.108	93.019	68.625	46.895	33.686
60 feet	Far	67.245	70.099	75.332	84.098	101.006	142.382
	Near	54.194	52.495	49.944	46.793	42.936	38.428
30 feet	Far	31.669	32.275	33.318	34.892	37.435	41.845
	Near	28.506	28.039	27.31	26.36	25.116	23.535
20 feet	Far	20.712	20.964	21.389	22.013	22.976	24.528
	Near	19.339	19.127	18.793	18.347	17.749	16.961
12 feet	Far	12.241	12.325	12.464	12.664	12.963	13.421
	Near	11.769	11.694	11.573	11.41	11.186	10.881
10 feet	Far	10.163	10.22	10.313	10.446	10.644	10.944
	Near	9.843	9.791	9.708	9.596	9.44	9.227
8 feet	Far	8.101	8.135	8.192	8.273	8.393	8.571
	Near	7.902	7.87	7.819	7.748	7.65	7.514

Distance in feet | Confusion circle : 0.025 mm

F = 152 mm



APERTURE		T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		181.884	131.108	93.019	68.625	46.895	33.686
6 feet	Far	6.053	6.071	6.101	6.143	6.205	6.297
	Near	5.948	5.931	5.903	5.865	5.812	5.737
5 feet	Far	5.035	5.047	5.067	5.094	5.135	5.194
	Near	4.966	4.954	4.936	4.91	4.875	4.825
4 feet	Far	4.021	4.028	4.039	4.056	4.079	4.114
	Near	3.98	3.973	3.962	3.947	3.925	3.895
3 feet	Far	3.01	3.014	3.019	3.027	3.039	3.056
	Near	2.99	2.987	2.981	2.974	2.963	2.948
2 feet 1 inch	Far	2.087	2.088	2.09	2.093	2.098	2.104
	Near	2.08	2.078	2.076	2.073	2.069	2.064

Distance in feet | Confusion circle : 0.025 mm

F = 152 mm