



OPTIMO 30 - 76

DEPTH-OF-FIELD TABLES  
DISTANCES IN FEET

Angenieux®





## **DEPTH-OF-FIELD TABLES** F = 30 - 76 mm

The depth of field tables are provided for informational purposes only and are estimated with a circle of confusion of 0.025 mm (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 = 30 - 76 mm**

*Les tables de profondeur de champs sont fournies à titre indicatif pour un cercle de confusion moyen de 0,025 mm (1/1000 inch). 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 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		43.734	31.906	23.132	16.553	12.339	8.585	6.302
40 feet	Far	462.905	∞	∞	∞	∞	∞	∞
	Near	21.173	18.027	14.918	11.94	9.632	7.229	5.573
20 feet	Far	35.955	51.88	142.822	∞	∞	∞	∞
	Near	13.966	12.56	11.006	9.336	7.897	6.242	4.994
15 feet	Far	22.267	27.368	40.806	154.182	∞	∞	∞
	Near	11.382	10.448	9.368	8.15	7.049	5.72	4.67
10 feet	Far	12.644	14.075	16.809	23.703	48.987	∞	∞
	Near	8.307	7.817	7.218	6.498	5.803	4.9	4.133
8 feet	Far	9.55	10.318	11.667	14.506	20.906	112.394	∞
	Near	6.907	6.574	6.157	5.64	5.122	4.423	3.803
6 feet	Far	6.784	7.143	7.73	8.814	10.7	17.675	125.202
	Near	5.392	5.197	4.945	4.621	4.284	3.805	3.356

Distance in feet | Confusion circle : 0.025 mm

F = 30 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		43.734	31.906	23.132	16.553	12.339	8.585	6.302
5 feet	Far	5.508	5.732	6.088	6.71	7.7	10.57	20.755
	Near	4.587	4.45	4.272	4.037	3.787	3.421	3.067
4 feet	Far	4.297	4.423	4.618	4.943	5.423	6.602	9.243
	Near	3.747	3.661	3.546	3.393	3.225	2.971	2.714
3 feet	Far	3.145	3.205	3.295	3.438	3.637	4.07	4.821
	Near	2.87	2.825	2.763	2.679	2.583	2.434	2.276
2 feet	Far	2.049	2.068	2.097	2.141	2.199	2.313	2.48
	Near	1.954	1.938	1.915	1.883	1.845	1.784	1.715

Distance in feet | Confusion circle : 0.025 mm

F = 30 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		52.786	38.478	27.863	19.903	14.805	10.262	7.5
40 feet	Far	162.142	∞	∞	∞	∞	∞	∞
	Near	23.032	19.894	16.696	13.54	11.026	8.348	6.463
20 feet	Far	31.541	40.503	68.37	∞	∞	∞	∞
	Near	14.728	13.413	11.917	10.258	8.783	7.034	5.676
15 feet	Far	20.523	23.897	31.269	57.964	∞	∞	∞
	Near	11.874	11.019	10.007	8.83	7.733	6.365	5.249
10 feet	Far	12.084	13.132	14.999	19.038	28.735	434.93	∞
	Near	8.556	8.12	7.576	6.906	6.24	5.347	4.562
8 feet	Far	9.236	9.817	10.791	12.665	16.188	33.019	∞
	Near	7.073	6.781	6.408	5.935	5.449	4.773	4.153
6 feet	Far	6.632	6.911	7.354	8.133	9.375	13.016	26.39
	Near	5.488	5.319	5.098	4.808	4.499	4.048	3.612

Distance in feet | Confusion circle : 0.025 mm

F = 32 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		52.786	38.478	27.863	19.903	14.805	10.262	7.5
5 feet	Far	5.412	5.588	5.862	6.324	7.016	8.774	13.03
	Near	4.653	4.536	4.38	4.173	3.947	3.608	3.27
4 feet	Far	4.242	4.343	4.495	4.744	5.097	5.898	7.418
	Near	3.788	3.715	3.616	3.482	3.333	3.102	2.863
3 feet	Far	3.119	3.167	3.239	3.351	3.503	3.821	4.33
	Near	2.892	2.853	2.801	2.728	2.645	2.512	2.368
2 feet	Far	2.04	2.056	2.079	2.114	2.16	2.249	2.375
	Near	1.962	1.948	1.929	1.902	1.87	1.816	1.756

Distance in feet | Confusion circle : 0.025 mm

F = 32 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		66.198	48.216	34.873	24.867	18.457	12.746	9.275
40 feet	Far	99.476	230.432	∞	∞	∞	∞	∞
	Near	25.198	22.142	18.911	15.6	12.872	9.871	7.699
20 feet	Far	28.186	33.412	45.484	98.401	∞	∞	∞
	Near	15.559	14.369	12.971	11.363	9.88	8.052	6.579
15 feet	Far	19.074	21.283	25.513	36.225	76.132	∞	∞
	Near	12.397	11.643	10.725	9.62	8.554	7.171	5.997
10 feet	Far	11.586	12.333	13.587	16.008	20.588	42.993	∞
	Near	8.814	8.44	7.965	7.361	6.742	5.882	5.094
8 feet	Far	8.951	9.376	10.061	11.287	13.311	19.766	53.05
	Near	7.243	6.996	6.676	6.258	5.817	5.182	4.576
6 feet	Far	6.491	6.701	7.025	7.57	8.38	10.409	15.152
	Near	5.584	5.444	5.257	5.007	4.734	4.323	3.912

Distance in feet | Confusion circle : 0.025 mm

F = 37 mm





APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		66.198	48.216	34.873	24.867	18.457	12.746	9.275
5 feet	Far	5.322	5.456	5.659	5.992	6.466	7.554	9.651
	Near	4.719	4.622	4.492	4.316	4.119	3.816	3.504
4 feet	Far	4.19	4.267	4.383	4.566	4.818	5.355	6.255
	Near	3.829	3.769	3.688	3.575	3.447	3.245	3.029
3 feet	Far	3.094	3.131	3.186	3.271	3.384	3.61	3.95
	Near	2.913	2.882	2.839	2.779	2.709	2.595	2.469
2 feet	Far	2.032	2.044	2.062	2.09	2.124	2.191	2.283
	Near	1.97	1.958	1.943	1.921	1.894	1.85	1.798

Distance in feet | Confusion circle : 0.025 mm

F = 37 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		135.213	98.328	70.943	50.409	37.255	25.536	18.412
40 feet	Far	56.343	66.686	90.341	190.124	∞	∞	∞
	Near	31.066	28.664	25.838	22.58	19.571	15.854	12.851
20 feet	Far	23.28	24.826	27.423	32.443	41.955	88.839	∞
	Near	17.548	16.777	15.794	14.547	13.269	11.493	9.868
15 feet	Far	16.734	17.502	18.729	20.894	24.385	34.871	76.947
	Near	13.602	13.143	12.543	11.758	10.924	9.712	8.545
10 feet	Far	10.711	11.009	11.462	12.206	13.273	15.749	20.644
	Near	9.382	9.169	8.884	8.498	8.07	7.412	6.737
8 feet	Far	8.435	8.612	8.879	9.305	9.893	11.161	13.334
	Near	7.611	7.474	7.289	7.035	6.747	6.294	5.813
6 feet	Far	6.229	6.32	6.455	6.666	6.947	7.516	8.389
	Near	5.789	5.714	5.61	5.466	5.299	5.029	4.731

Distance in feet | Confusion circle : 0.025 mm

F = 53 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		135.213	98.328	70.943	50.409	37.255	25.536	18.412
5 feet	Far	5.151	5.211	5.298	5.434	5.611	5.96	6.471
	Near	4.859	4.808	4.737	4.638	4.522	4.331	4.117
4 feet	Far	4.09	4.125	4.176	4.254	4.355	4.549	4.821
	Near	3.915	3.883	3.84	3.779	3.706	3.585	3.446
3 feet	Far	3.045	3.062	3.087	3.125	3.173	3.263	3.385
	Near	2.957	2.941	2.919	2.887	2.849	2.784	2.708
2 feet	Far	2.015	2.021	2.03	2.042	2.058	2.087	2.125
	Near	1.985	1.979	1.972	1.96	1.946	1.923	1.894

Distance in feet | Confusion circle : 0.025 mm

F = 53 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		228.869	166.344	119.894	85.071	62.77	42.904	30.829
40 feet	Far	48.239	52.32	59.493	74.589	108.627	596.102	∞
	Near	34.191	32.421	30.204	27.452	24.699	20.982	17.687
20 feet	Far	21.81	22.583	23.786	25.815	28.855	36.571	55.234
	Near	18.475	17.96	17.278	16.366	15.373	13.885	12.399
15 feet	Far	15.975	16.378	16.989	17.979	19.373	22.497	28.256
	Near	14.141	13.844	13.442	12.894	12.281	11.329	10.338
10 feet	Far	10.407	10.57	10.811	11.188	11.691	12.715	14.297
	Near	9.625	9.492	9.309	9.052	8.757	8.28	7.757
8 feet	Far	8.25	8.349	8.495	8.718	9.011	9.589	10.433
	Near	7.765	7.681	7.564	7.399	7.206	6.889	6.534
6 feet	Far	6.133	6.184	6.26	6.374	6.521	6.803	7.195
	Near	5.874	5.827	5.763	5.672	5.563	5.382	5.173

Distance in feet | Confusion circle : 0.025 mm

F = 69 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		228.869	166.344	119.894	85.071	62.77	42.904	30.829
5 feet	Far	5.088	5.122	5.171	5.246	5.341	5.52	5.765
	Near	4.915	4.884	4.841	4.779	4.705	4.58	4.433
4 feet	Far	4.052	4.073	4.102	4.146	4.201	4.304	4.441
	Near	3.949	3.93	3.904	3.866	3.82	3.742	3.65
3 feet	Far	3.026	3.036	3.051	3.072	3.099	3.149	3.213
	Near	2.974	2.965	2.951	2.932	2.908	2.868	2.819
2 feet	Far	2.009	2.012	2.017	2.025	2.034	2.05	2.071
	Near	1.991	1.988	1.983	1.976	1.968	1.953	1.936

Distance in feet | Confusion circle : 0.025 mm

F = 69 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		277.563	201.727	145.363	103.107	76.048	51.946	37.296
40 feet	Far	46.551	49.626	54.783	64.707	83.334	171.942	∞
	Near	35.085	33.536	31.558	29.046	26.467	22.875	19.582
20 feet	Far	21.468	22.081	23.017	24.554	26.759	31.884	42.044
	Near	18.726	18.288	17.7	16.903	16.02	14.666	13.274
15 feet	Far	15.794	16.117	16.601	17.37	18.423	20.665	24.414
	Near	14.285	14.033	13.691	13.218	12.682	11.834	10.927
10 feet	Far	10.333	10.465	10.659	10.958	11.351	12.131	13.281
	Near	9.689	9.577	9.423	9.205	8.952	8.536	8.071
8 feet	Far	8.205	8.286	8.403	8.582	8.814	9.263	9.897
	Near	7.806	7.735	7.637	7.497	7.333	7.06	6.748
6 feet	Far	6.109	6.151	6.212	6.305	6.423	6.645	6.949
	Near	5.895	5.857	5.803	5.726	5.635	5.48	5.299

Distance in feet | Confusion circle : 0.025 mm

F = 76 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL   DISTANCE		277.563	201.727	145.363	103.107	76.048	51.946	37.296
5 feet	Far	5.072	5.1	5.14	5.201	5.277	5.42	5.612
	Near	4.93	4.904	4.868	4.816	4.754	4.648	4.522
4 feet	Far	4.043	4.06	4.084	4.119	4.164	4.247	4.356
	Near	3.958	3.942	3.92	3.889	3.851	3.785	3.706
3 feet	Far	3.022	3.03	3.042	3.059	3.081	3.121	3.173
	Near	2.979	2.971	2.96	2.944	2.924	2.89	2.849
2 feet	Far	2.007	2.01	2.014	2.02	2.028	2.041	2.058
	Near	1.993	1.99	1.986	1.98	1.973	1.961	1.946

Distance in feet | Confusion circle : 0.025 mm

F = 76 mm