

OPTIMO *STYLE* 25 - 250

DEPTH-OF-FIELD TABLES
DISTANCES IN METERS

Angénieux®

REFERENCE : 317116 - B



DEPTH-OF-FIELD TABLES

F = 25 - 250 mm

The depths of field tables are provided for information purposes only and are estimated with a circle of confusion of 0.025 mm (1/1000 inch).

The width of the sharpness zone grows proportionally with the focus distance and aperture and is inversely proportional to the focal length.

In practice, the depth of field limits can only be defined accurately by performing screen tests in real shooting conditions.





TABLES DE PROFONDEUR DE CHAMP

F = 25 - 250 mm

Les tables de profondeur de champs sont fournies à titre indicative 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.

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		8.424	7.954	5.748	4.102	3.065	2.188	1.67
30 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	6.668	6.375	4.895	3.664	2.824	2.072	1.607
10 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	4.705	4.562	3.774	3.018	2.441	1.872	1.494
8 meters	Far	156.159	∞	∞	∞	∞	∞	∞
	Near	4.237	4.122	3.475	2.831	2.322	1.806	1.455
5 meters	Far	11.581	12.637	35.812	∞	∞	∞	∞
	Near	3.262	3.197	2.807	2.386	2.026	1.634	1.35
4 meters	Far	7.164	7.543	12.069	175.99	∞	∞	∞
	Near	2.828	2.78	2.488	2.159	1.867	1.536	1.288
3 meters	Far	4.382	4.514	5.739	9.911	175.738	∞	∞
	Near	2.314	2.283	2.091	1.863	1.65	1.396	1.195

F = 25 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		8.424	7.954	5.748	4.102	3.065	2.188	1.67
2.5 meters	Far	3.345	3.418	4.045	5.655	11.683	∞	∞
	Near	2.02	1.998	1.854	1.679	1.509	1.3	1.13
2 meters	Far	2.469	2.506	2.806	3.444	4.881	20.13	∞
	Near	1.696	1.681	1.584	1.461	1.338	1.179	1.043
1.5 meters	Far	1.72	1.736	1.86	2.089	2.486	3.787	11.85
	Near	1.338	1.33	1.274	1.2	1.123	1.019	0.924
1.22 meters	Far	1.346	1.355	1.422	1.538	1.719	2.182	3.353
	Near	1.12	1.115	1.079	1.031	0.978	0.904	0.835

F = 25 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		15.029	14.176	10.176	7.193	5.313	3.725	2.787
30 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	10.131	9.743	7.699	5.885	4.581	3.365	2.59
10 meters	Far	28.805	32.639	524.054	∞	∞	∞	∞
	Near	6.133	5.993	5.177	4.314	3.591	2.819	2.269
8 meters	Far	16.497	17.669	35.376	∞	∞	∞	∞
	Near	5.342	5.237	4.611	3.921	3.321	2.657	2.168
5 meters	Far	7.232	7.439	9.321	15.175	74.677	∞	∞
	Near	3.851	3.799	3.47	3.079	2.71	2.266	1.912
4 meters	Far	5.262	5.368	6.253	8.353	14.546	∞	∞
	Near	3.247	3.21	2.979	2.693	2.413	2.063	1.772
3 meters	Far	3.62	3.668	4.04	4.778	6.218	13.197	∞
	Near	2.573	2.551	2.409	2.227	2.04	1.794	1.579

F = 35 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		15.029	14.176	10.176	7.193	5.313	3.725	2.787
2.5 meters	Far	2.898	2.927	3.149	3.561	4.268	6.547	19.46
	Near	2.207	2.191	2.089	1.956	1.815	1.624	1.451
2 meters	Far	2.23	2.246	2.367	2.577	2.904	3.734	5.785
	Near	1.818	1.808	1.742	1.653	1.557	1.422	1.294
1.5 meters	Far	1.612	1.62	1.675	1.767	1.898	2.182	2.676
	Near	1.405	1.4	1.364	1.314	1.258	1.176	1.095
1.22 meters	Far	1.286	1.29	1.321	1.372	1.442	1.582	1.798
	Near	1.162	1.159	1.136	1.105	1.069	1.014	0.959

F = 35 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		29.252	27.576	19.716	13.858	10.166	7.047	5.205
30 meters	Far	∞	∞	∞	∞	∞	∞	∞
	Near	14.944	14.502	12.025	9.595	7.694	5.788	4.502
10 meters	Far	14.91	15.378	19.711	34.315	474.42	∞	∞
	Near	7.554	7.443	6.754	5.939	5.175	4.263	3.543
8 meters	Far	10.808	11.049	13.087	18.142	35.131	∞	∞
	Near	6.372	6.294	5.8	5.196	4.609	3.88	3.281
5 meters	Far	5.922	5.99	6.518	7.518	9.304	15.747	97.494
	Near	4.336	4.301	4.074	3.778	3.469	3.055	2.684
4 meters	Far	4.551	4.59	4.884	5.408	6.246	8.518	15.219
	Near	3.574	3.551	3.399	3.196	2.978	2.675	2.393
3 meters	Far	3.284	3.303	3.446	3.685	4.037	4.829	6.332
	Near	2.765	2.751	2.663	2.543	2.409	2.215	2.027

F = 50 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		29.252	27.576	19.716	13.858	10.166	7.047	5.205
2.5 meters	Far	2.686	2.699	2.789	2.938	3.147	3.588	4.319
	Near	2.34	2.331	2.27	2.185	2.089	1.947	1.805
2 meters	Far	2.11	2.117	2.169	2.252	2.366	2.591	2.927
	Near	1.902	1.897	1.858	1.804	1.742	1.647	1.55
1.5 meters	Far	1.555	1.558	1.583	1.623	1.675	1.772	1.906
	Near	1.45	1.447	1.427	1.397	1.363	1.31	1.254
1.22 meters	Far	1.252	1.254	1.269	1.292	1.321	1.375	1.446
	Near	1.19	1.188	1.175	1.158	1.136	1.103	1.066

F = 50 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		64.654	60.928	43.47	30.459	22.261	15.334	11.244
30 meters	Far	55.468	58.53	95.351	1741.701	∞	∞	∞
	Near	20.607	20.22	17.879	15.248	12.91	10.267	8.285
10 meters	Far	11.731	11.858	12.825	14.617	17.69	27.569	82.777
	Near	8.722	8.654	8.211	7.627	7.014	6.181	5.426
8 meters	Far	9.054	9.128	9.683	10.656	12.176	16.089	26.111
	Near	7.171	7.126	6.826	6.423	5.989	5.378	4.804
5 meters	Far	5.375	5.4	5.581	5.878	6.293	7.155	8.555
	Near	4.676	4.657	4.533	4.359	4.162	3.869	3.574
4 meters	Far	4.229	4.244	4.352	4.525	4.761	5.223	5.908
	Near	3.795	3.784	3.703	3.589	3.458	3.259	3.053
3 meters	Far	3.121	3.129	3.184	3.271	3.387	3.603	3.9
	Near	2.889	2.882	2.837	2.773	2.698	2.581	2.455

F = 75 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		64.654	60.928	43.47	30.459	22.261	15.334	11.244
2.5 meters	Far	2.58	2.585	2.622	2.678	2.752	2.887	3.066
	Near	2.425	2.421	2.39	2.346	2.294	2.212	2.123
2 meters	Far	2.048	2.051	2.072	2.105	2.148	2.224	2.323
	Near	1.955	1.952	1.933	1.906	1.873	1.821	1.764
1.5 meters	Far	1.524	1.526	1.536	1.552	1.573	1.609	1.655
	Near	1.477	1.475	1.466	1.452	1.435	1.407	1.376
1.22 meters	Far	1.234	1.235	1.241	1.251	1.263	1.284	1.31
	Near	1.206	1.205	1.199	1.191	1.18	1.163	1.144

F = 75 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		114.342	107.745	76.823	53.777	39.255	26.985	19.739
30 meters	Far	40.475	41.364	48.861	67.106	125.029	∞	∞
	Near	23.853	23.557	21.683	19.38	17.136	14.34	12.034
10 meters	Far	10.907	10.969	11.417	12.161	13.233	15.561	19.678
	Near	9.235	9.192	8.902	8.502	8.056	7.401	6.757
8 meters	Far	8.562	8.599	8.868	9.305	9.91	11.142	13.073
	Near	7.509	7.481	7.291	7.024	6.72	6.264	5.802
5 meters	Far	5.205	5.218	5.312	5.459	5.653	6.017	6.515
	Near	4.811	4.8	4.724	4.615	4.488	4.288	4.075
4 meters	Far	4.126	4.134	4.191	4.28	4.395	4.605	4.883
	Near	3.882	3.875	3.826	3.757	3.674	3.542	3.4
3 meters	Far	3.067	3.071	3.101	3.147	3.206	3.311	3.445
	Near	2.936	2.932	2.906	2.867	2.821	2.746	2.664

F = 100 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		114.342	107.745	76.823	53.777	39.255	26.985	19.739
2.5 meters	Far	2.545	2.547	2.567	2.597	2.635	2.703	2.788
	Near	2.457	2.455	2.437	2.411	2.379	2.328	2.27
2 meters	Far	2.027	2.028	2.04	2.058	2.08	2.12	2.169
	Near	1.974	1.973	1.962	1.946	1.926	1.894	1.858
1.5 meters	Far	1.513	1.514	1.52	1.529	1.54	1.56	1.583
	Near	1.487	1.486	1.48	1.472	1.462	1.446	1.427
1.22 meters	Far	1.228	1.229	1.232	1.237	1.244	1.255	1.269
	Near	1.212	1.212	1.208	1.203	1.197	1.187	1.176

F = 100 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		114.342	107.745	76.823	53.777	39.255	26.985	19.739
30 meters	Far	35.955	36.399	39.835	46.404	58.325	103.394	1244.446
	Near	25.748	25.526	24.08	22.2	20.249	17.635	15.31
10 meters	Far	10.562	10.599	10.862	11.282	11.85	12.956	14.57
	Near	9.496	9.467	9.268	8.985	8.659	8.161	7.642
8 meters	Far	8.351	8.373	8.534	8.788	9.124	9.756	10.631
	Near	7.678	7.66	7.53	7.345	7.129	6.792	6.434
5 meters	Far	5.129	5.137	5.195	5.284	5.398	5.605	5.871
	Near	4.878	4.87	4.82	4.746	4.659	4.518	4.363
4 meters	Far	4.08	4.085	4.12	4.174	4.244	4.366	4.521
	Near	3.923	3.919	3.887	3.84	3.785	3.694	3.592
3 meters	Far	3.043	3.045	3.064	3.092	3.128	3.191	3.269
	Near	2.959	2.956	2.939	2.914	2.883	2.832	2.775

F = 120 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		114.342	107.745	76.823	53.777	39.255	26.985	19.739
2.5 meters	Far	2.528	2.53	2.542	2.561	2.585	2.626	2.677
	Near	2.472	2.471	2.459	2.442	2.421	2.387	2.347
2 meters	Far	2.017	2.018	2.025	2.037	2.051	2.075	2.105
	Near	1.983	1.982	1.975	1.965	1.952	1.931	1.907
1.5 meters	Far	1.509	1.509	1.513	1.518	1.525	1.537	1.552
	Near	1.492	1.491	1.487	1.482	1.476	1.465	1.452
1.22 meters	Far	1.225	1.225	1.228	1.231	1.235	1.242	1.251
	Near	1.215	1.215	1.212	1.209	1.205	1.199	1.191

F = 120 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		256.649	241.85	172.415	120.625	87.984	60.402	44.115
30 meters	Far	33.901	34.174	36.209	39.759	45.256	59.113	92.794
	Near	26.91	26.742	25.621	24.11	22.473	20.163	17.986
10 meters	Far	10.384	10.409	10.583	10.857	11.215	11.881	12.78
	Near	9.644	9.623	9.479	9.272	9.028	8.644	8.232
8 meters	Far	8.241	8.256	8.364	8.531	8.748	9.142	9.657
	Near	7.774	7.76	7.668	7.533	7.374	7.119	6.841
5 meters	Far	5.089	5.095	5.134	5.194	5.27	5.405	5.573
	Near	4.914	4.909	4.873	4.821	4.758	4.655	4.539
4 meters	Far	4.055	4.059	4.083	4.12	4.166	4.247	4.348
	Near	3.946	3.943	3.921	3.888	3.848	3.782	3.707
3 meters	Far	3.029	3.031	3.044	3.064	3.088	3.13	3.182
	Near	2.971	2.969	2.957	2.939	2.917	2.881	2.84

F = 150 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		256.649	241.85	172.415	120.625	87.984	60.402	44.115
2.5 meters	Far	2.52	2.521	2.529	2.542	2.558	2.586	2.62
	Near	2.481	2.48	2.471	2.459	2.445	2.42	2.392
2 meters	Far	2.012	2.013	2.018	2.025	2.035	2.051	2.071
	Near	1.988	1.988	1.983	1.975	1.966	1.951	1.934
1.5 meters	Far	1.506	1.506	1.509	1.513	1.518	1.526	1.536
	Near	1.494	1.494	1.491	1.488	1.483	1.475	1.466
1.22 meters	Far	1.224	1.224	1.225	1.228	1.23	1.235	1.241
	Near	1.216	1.216	1.215	1.213	1.21	1.205	1.2

F = 150 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		445.635	428.344	305.35	213.592	155.759	106.886	78.025
30 meters	Far	32.128	32.22	33.213	34.82	37.04	41.526	48.48
	Near	28.139	28.069	27.36	26.363	25.227	23.517	21.776
10 meters	Far	10.218	10.227	10.321	10.466	10.651	10.98	11.396
	Near	9.792	9.784	9.699	9.575	9.427	9.186	8.917
8 meters	Far	8.137	8.142	8.201	8.291	8.405	8.606	8.856
	Near	7.868	7.863	7.809	7.73	7.634	7.477	7.301
5 meters	Far	5.051	5.053	5.075	5.107	5.149	5.22	5.308
	Near	4.95	4.948	4.928	4.897	4.86	4.799	4.728
4 meters	Far	4.032	4.033	4.046	4.067	4.092	4.136	4.189
	Near	3.969	3.968	3.955	3.936	3.912	3.874	3.829
3 meters	Far	3.017	3.018	3.025	3.035	3.049	3.072	3.1
	Near	2.983	2.983	2.976	2.965	2.953	2.932	2.907

F = 200 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		445.635	428.344	305.35	213.592	155.759	106.886	78.025
2.5 meters	Far	2.511	2.512	2.516	2.524	2.533	2.548	2.566
	Near	2.489	2.488	2.484	2.477	2.468	2.454	2.438
2 meters	Far	2.007	2.007	2.01	2.014	2.02	2.029	2.04
	Near	1.993	1.993	1.99	1.986	1.981	1.972	1.962
1.5 meters	Far	1.503	1.504	1.505	1.507	1.51	1.514	1.52
	Near	1.497	1.496	1.495	1.493	1.49	1.486	1.481
1.22 meters	Far	1.222	1.222	1.223	1.224	1.226	1.229	1.232
	Near	1.218	1.218	1.217	1.216	1.214	1.212	1.208

F = 200 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		670.215	670.215	484.566	338.771	246.979	169.439	123.657
30 meters	Far	31.382	31.382	31.946	32.867	34.082	36.358	39.48
	Near	28.737	28.737	28.28	27.599	26.802	25.556	24.227
10 meters	Far	10.144	10.144	10.2	10.288	10.4	10.596	10.836
	Near	9.861	9.861	9.808	9.728	9.631	9.471	9.288
8 meters	Far	8.09	8.09	8.126	8.181	8.251	8.371	8.519
	Near	7.912	7.912	7.878	7.827	7.765	7.662	7.544
5 meters	Far	5.034	5.034	5.047	5.067	5.093	5.137	5.189
	Near	4.967	4.967	4.954	4.935	4.911	4.871	4.825
4 meters	Far	4.021	4.021	4.029	4.042	4.057	4.084	4.117
	Near	3.979	3.979	3.971	3.959	3.944	3.919	3.89
3 meters	Far	3.011	3.011	3.016	3.022	3.031	3.045	3.062
	Near	2.989	2.989	2.985	2.978	2.97	2.957	2.941

F = 250 mm

Distances in meters | Confusion circle : 0.025 mm

APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		670.215	670.215	484.566	338.771	246.979	169.439	123.657
2.5 meters	Far	2.507	2.507	2.51	2.515	2.52	2.53	2.541
	Near	2.493	2.493	2.49	2.485	2.48	2.471	2.46
2 meters	Far	2.004	2.004	2.006	2.009	2.012	2.018	2.025
	Near	1.996	1.996	1.994	1.991	1.988	1.982	1.976
1.5 meters	Far	1.502	1.502	1.503	1.505	1.506	1.509	1.512
	Near	1.498	1.498	1.497	1.496	1.494	1.491	1.488
1.22 meters	Far	1.221	1.221	1.222	1.223	1.224	1.225	1.227
	Near	1.219	1.219	1.218	1.217	1.216	1.215	1.213

F = 250 mm