

OPTIMO 30 - 72 A-2S

DEPTH-OF-FIELD TABLES
DISTANCES IN METERS

Angénieux®


REFERENCE : 0317408 - A



DEPTH-OF-FIELD TABLES

F = 30 - 72 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 - 72 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.

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		7.9	5.915	4.281	3.106	2.273	1.681
25 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	6.089	4.856	3.713	2.808	2.118	1.601
10 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	4.53	3.827	3.097	2.454	1.922	1.495
5 meters	Loin	12.89	30.478	∞	∞	∞	∞
	Près	3.174	2.827	2.424	2.028	1.663	1.345
4 meters	Loin	7.654	11.49	59.285	∞	∞	∞
	Près	2.761	2.5	2.186	1.865	1.558	1.281
3 meters	Loin	4.566	5.641	9.076	97.242	∞	∞
	Près	2.268	2.096	1.879	1.645	1.409	1.185

F = 30 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		7.9	5.915	4.281	3.106	2.273	1.681
2 meters	Loin	2.529	2.799	3.377	4.874	14.535	∞
	Près	1.67	1.582	1.465	1.329	1.182	1.031
1.5 meters	Loin	1.75	1.863	2.078	2.508	3.631	11.717
	Près	1.321	1.27	1.2	1.114	1.017	0.911
1 meter	Loin	1.085	1.119	1.178	1.279	1.466	1.886
	Près	0.931	0.91	0.879	0.84	0.792	0.737
0.8 meter	Loin	0.845	0.862	0.891	0.939	1.018	1.169
	Près	0.762	0.749	0.731	0.708	0.678	0.642
0.65 meter	Loin	0.673	0.682	0.697	0.72	0.756	0.819
	Près	0.629	0.622	0.612	0.598	0.581	0.559

F = 30 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		9.328	6.974	5.035	3.641	2.652	1.95
25 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	6.887	5.533	4.257	3.23	2.438	1.839
10 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	4.945	4.223	3.454	2.761	2.173	1.694
5 meters	Loin	10.277	16.666	4016.738	∞	∞	∞
	Près	3.363	3.027	2.627	2.222	1.84	1.497
4 meters	Loin	6.672	8.808	18.078	∞	∞	∞
	Près	2.899	2.652	2.346	2.024	1.708	1.414
3 meters	Loin	4.212	4.935	6.805	15.483	∞	∞
	Près	2.356	2.197	1.991	1.762	1.526	1.295

F = 34 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		9.328	6.974	5.035	3.641	2.652	1.95
2 meters	Loin	2.426	2.628	3.034	3.928	6.988	∞
	Près	1.714	1.634	1.526	1.399	1.256	1.106
1.5 meters	Loin	1.704	1.793	1.955	2.255	2.919	5.29
	Près	1.346	1.301	1.237	1.158	1.067	0.964
1 meter	Loin	1.07	1.098	1.145	1.223	1.358	1.631
	Près	0.941	0.923	0.895	0.86	0.817	0.765
0.8 meter	Loin	0.837	0.851	0.875	0.912	0.973	1.082
	Près	0.767	0.757	0.741	0.72	0.694	0.661
0.65 meter	Loin	0.67	0.677	0.689	0.707	0.736	0.783
	Près	0.632	0.626	0.617	0.606	0.59	0.57

F = 34 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		12.818	9.561	6.878	4.949	3.58	2.608
25 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	8.58	7.011	5.474	4.195	3.183	2.401
10 meters	Loin	44.319	∞	∞	∞	∞	∞
	Près	5.734	5.006	4.19	3.415	2.727	2.145
5 meters	Loin	7.917	10.018	17.346	∞	∞	∞
	Près	3.692	3.39	3.011	2.606	2.202	1.82
4 meters	Loin	5.613	6.565	8.99	19.6	∞	∞
	Près	3.134	2.918	2.639	2.329	2.007	1.692
3 meters	Loin	3.781	4.171	4.989	7.001	17.154	∞
	Près	2.503	2.369	2.188	1.979	1.75	1.513

F = 40 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		12.818	9.561	6.878	4.949	3.58	2.608
2 meters	Loin	2.288	2.413	2.642	3.069	4.018	7.478
	Près	1.783	1.72	1.63	1.52	1.391	1.248
1.5 meters	Loin	1.641	1.699	1.799	1.968	2.282	2.994
	Près	1.385	1.349	1.298	1.233	1.154	1.061
1 meter	Loin	1.049	1.068	1.1	1.149	1.229	1.371
	Près	0.956	0.942	0.922	0.894	0.858	0.814
0.8 meter	Loin	0.826	0.836	0.852	0.877	0.915	0.979
	Près	0.776	0.768	0.756	0.74	0.719	0.692
0.65 meter	Loin	0.664	0.669	0.677	0.69	0.709	0.738
	Près	0.637	0.633	0.626	0.617	0.605	0.589

F = 40 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		19.93	14.833	10.634	7.613	5.471	3.949
25 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	11.207	9.42	7.559	5.92	4.558	3.465
10 meters	Loin	19.661	29.988	177.592	∞	∞	∞
	Près	6.764	6.087	5.272	4.439	3.644	2.926
5 meters	Loin	6.526	7.322	9.073	13.903	60.884	∞
	Près	4.072	3.828	3.504	3.131	2.731	2.323
4 meters	Loin	4.892	5.315	6.155	7.99	14.07	∞
	Près	3.396	3.229	3	2.729	2.426	2.106
3 meters	Loin	3.453	3.649	4.008	4.678	6.172	11.633
	Près	2.66	2.56	2.42	2.247	2.045	1.821

F = 50 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		19.93	14.833	10.634	7.613	5.471	3.949
2 meters	Loin	2.174	2.243	2.363	2.56	2.912	3.649
	Près	1.855	1.81	1.744	1.66	1.556	1.432
1.5 meters	Loin	1.587	1.62	1.676	1.764	1.908	2.169
	Près	1.424	1.399	1.363	1.315	1.255	1.18
1 meter	Loin	1.031	1.042	1.061	1.089	1.132	1.201
	Près	0.972	0.962	0.948	0.929	0.903	0.87
0.8 meter	Loin	0.817	0.823	0.832	0.847	0.869	0.902
	Près	0.784	0.779	0.771	0.76	0.745	0.726
0.65 meter	Loin	0.659	0.662	0.667	0.675	0.686	0.702
	Près	0.642	0.639	0.634	0.628	0.62	0.609

F = 50 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		24.95	18.552	13.282	9.492	6.804	4.895
25 meters	Loin	∞	∞	∞	∞	∞	∞
	Près	12.606	10.765	8.781	6.974	5.428	4.158
10 meters	Loin	16.411	21.253	39.784	∞	∞	∞
	Près	7.235	6.605	5.821	4.988	4.163	3.391
5 meters	Loin	6.142	6.684	7.766	10.144	18.172	∞
	Près	4.23	4.017	3.726	3.382	2.998	2.592
4 meters	Loin	4.678	4.978	5.539	6.617	9.201	21.424
	Près	3.503	3.359	3.158	2.912	2.629	2.319
3 meters	Loin	3.349	3.493	3.748	4.191	5.051	7.211
	Près	2.722	2.638	2.517	2.365	2.182	1.971

F = 56 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		24.95	18.552	13.282	9.492	6.804	4.895
2 meters	Loin	2.136	2.189	2.277	2.419	2.658	3.105
	Près	1.883	1.845	1.79	1.718	1.627	1.516
1.5 meters	Loin	1.568	1.594	1.636	1.702	1.805	1.981
	Près	1.439	1.419	1.389	1.348	1.296	1.231
1 meter	Loin	1.024	1.033	1.048	1.069	1.102	1.152
	Près	0.977	0.97	0.958	0.942	0.921	0.893
0.8 meter	Loin	0.813	0.818	0.825	0.837	0.853	0.879
	Près	0.788	0.783	0.777	0.768	0.756	0.739
0.65 meter	Loin	0.657	0.66	0.664	0.669	0.678	0.691
	Près	0.643	0.641	0.637	0.632	0.626	0.617

F = 56 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		32.488	24.141	17.262	12.316	8.808	6.317
25 meters	Loin	108.11	∞	∞	∞	∞	∞
	Près	14.245	12.4	10.326	8.356	6.604	5.118
10 meters	Loin	14.259	16.793	23.326	53.203	∞	∞
	Près	7.731	7.169	6.442	5.636	4.801	3.984
5 meters	Loin	5.829	6.192	6.867	8.148	11.133	23.796
	Près	4.387	4.209	3.959	3.653	3.299	2.908
4 meters	Loin	4.499	4.707	5.076	5.725	7.013	10.415
	Près	3.607	3.488	3.319	3.106	2.852	2.561
3 meters	Loin	3.26	3.363	3.539	3.829	4.339	5.38
	Près	2.782	2.714	2.614	2.486	2.327	2.137

F = 64 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		32.488	24.141	17.262	12.316	8.808	6.317
2 meters	Loin	2.102	2.141	2.205	2.304	2.464	2.739
	Près	1.909	1.879	1.835	1.776	1.699	1.604
1.5 meters	Loin	1.552	1.571	1.602	1.649	1.721	1.839
	Près	1.452	1.437	1.413	1.381	1.338	1.283
1 meter	Loin	1.019	1.025	1.036	1.052	1.075	1.112
	Près	0.982	0.976	0.967	0.955	0.938	0.915
0.8 meter	Loin	0.81	0.814	0.819	0.828	0.84	0.858
	Près	0.79	0.787	0.782	0.775	0.765	0.752
0.65 meter	Loin	0.655	0.657	0.66	0.665	0.671	0.681
	Près	0.645	0.643	0.64	0.636	0.631	0.624

F = 64 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		37.923	28.808	20.585	14.674	10.482	7.504
25 meters	Loin	72.945	191.866	∞	∞	∞	∞
	Près	15.181	13.503	11.407	9.357	7.484	5.855
10 meters	Loin	13.43	15.104	19.119	30.993	283.419	∞
	Près	7.991	7.514	6.835	6.061	5.236	4.403
5 meters	Loin	5.692	5.958	6.468	7.378	9.241	14.569
	Près	4.466	4.319	4.097	3.818	3.488	3.114
4 meters	Loin	4.419	4.574	4.861	5.343	6.23	8.2
	Près	3.658	3.562	3.413	3.222	2.989	2.716
3 meters	Loin	3.219	3.297	3.437	3.661	4.039	4.746
	Près	2.811	2.756	2.67	2.556	2.413	2.239

F = 72 mm

Distances in meters | Confusion circle : 0.025 mm

Aperture		T 4	T 5.6	T 8	T11	T16	T22
Hyperfocal distance		37.923	28.808	20.585	14.674	10.482	7.504
2 meters	Loin	2.087	2.116	2.168	2.248	2.372	2.578
	Près	1.921	1.898	1.859	1.808	1.741	1.656
1.5 meters	Loin	1.544	1.559	1.584	1.622	1.68	1.772
	Près	1.459	1.447	1.426	1.398	1.361	1.313
1 meter	Loin	1.016	1.021	1.03	1.043	1.062	1.091
	Près	0.985	0.98	0.972	0.962	0.947	0.928
0.8 meter	Loin	0.809	0.811	0.816	0.823	0.833	0.848
	Près	0.792	0.789	0.785	0.779	0.771	0.76
0.65 meter	Loin	0.655	0.656	0.659	0.662	0.668	0.675
	Près	0.646	0.644	0.642	0.639	0.634	0.628

F = 72 mm