



OPTIMO 16 - 40

| DEPTH-OF-FIELD TABLES
DISTANCES IN FEET

| Angenieux®





DEPTH-OF-FIELD TABLES

F = 16 - 40 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 = 16 - 40 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		13.264	9.572	7.074	5.198	3.997	2.925	2.274
40 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	10.2	7.921	6.171	4.726	3.733	2.8	2.209
20 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	8.283	6.753	5.47	4.331	3.502	2.685	2.147
15 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	7.36	6.148	5.085	4.101	3.362	2.612	2.108
10 feet	Far	36.822	∞	∞	∞	∞	∞	∞
	Near	6.017	5.212	4.455	3.707	3.112	2.478	2.032
8 feet	Far	18.28	42.445	∞	∞	∞	∞	∞
	Near	5.291	4.677	4.075	3.457	2.947	2.385	1.978
6 feet	Far	9.949	14.033	32.725	∞	∞	∞	∞
	Near	4.404	3.992	3.566	3.106	2.706	2.244	1.894

Distance in feet | Confusion circle : 0.025 mm

F = 16 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		13.264	9.572	7.074	5.198	3.997	2.925	2.274
5 feet	Far	7.296	9.15	14.15	100.643	∞	∞	∞
	Near	3.882	3.572	3.241	2.871	2.539	2.141	1.83
4 feet	Far	5.215	6.021	7.663	13.394	∞	∞	∞
	Near	3.295	3.083	2.849	2.577	2.321	2.003	1.742
3 feet	Far	3.54	3.844	4.361	5.522	8.561	∞	∞
	Near	2.63	2.508	2.369	2.197	2.028	1.804	1.608
2 feet	Far	2.163	2.242	2.361	2.573	2.917	3.976	8.632
	Near	1.869	1.822	1.764	1.69	1.61	1.496	1.386

Distance in feet | Confusion circle : 0.025 mm

F = 16 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		16.615	11.942	8.781	6.408	4.887	3.531	2.707
40 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	12.004	9.422	7.387	5.672	4.474	3.334	2.604
20 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	9.394	7.778	6.373	5.085	4.124	3.156	2.508
15 feet	Far	142.726	∞	∞	∞	∞	∞	∞
	Near	8.204	6.966	5.837	4.757	3.919	3.048	2.448
10 feet	Far	23.236	55.088	∞	∞	∞	∞	∞
	Near	6.544	5.762	4.996	4.211	3.563	2.85	2.334
8 feet	Far	14.282	21.729	77.303	∞	∞	∞	∞
	Near	5.68	5.099	4.507	3.876	3.335	2.718	2.255
6 feet	Far	8.703	10.828	16.315	76.336	∞	∞	∞
	Near	4.655	4.278	3.874	3.42	3.012	2.52	2.134

Distance in feet | Confusion circle : 0.025 mm

F = 18 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		16.615	11.942	8.781	6.408	4.887	3.531	2.707
5 feet	Far	6.634	7.733	10.018	18.475	∞	∞	∞
	Near	4.067	3.788	3.481	3.125	2.794	2.381	2.044
4 feet	Far	4.893	5.418	6.355	8.675	16.692	∞	∞
	Near	3.417	3.232	3.02	2.765	2.518	2.196	1.922
3 feet	Far	3.407	3.62	3.959	4.627	5.938	13.425	∞
	Near	2.697	2.594	2.471	2.317	2.159	1.942	1.745
2 feet	Far	2.125	2.184	2.27	2.416	2.634	3.195	4.584
	Near	1.894	1.855	1.807	1.742	1.672	1.568	1.463

Distance in feet | Confusion circle : 0.025 mm

F = 18 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		20.358	14.592	10.69	7.76	5.882	4.209	3.191
40 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	13.779	10.942	8.647	6.671	5.267	3.913	3.036
20 feet	Far	1068.997	∞	∞	∞	∞	∞	∞
	Near	10.411	8.75	7.257	5.847	4.767	3.654	2.895
15 feet	Far	53.473	∞	∞	∞	∞	∞	∞
	Near	8.951	7.718	6.554	5.402	4.482	3.5	2.807
10 feet	Far	18.452	29.068	137.02	∞	∞	∞	∞
	Near	6.989	6.244	5.488	4.686	4.002	3.225	2.646
8 feet	Far	12.379	16.21	28.122	∞	∞	∞	∞
	Near	6.001	5.46	4.891	4.261	3.704	3.045	2.536
6 feet	Far	7.998	9.339	12.117	22.301	∞	∞	∞
	Near	4.856	4.514	4.138	3.7	3.292	2.784	2.37

Distance in feet | Confusion circle : 0.025 mm

F = 20 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		20.358	14.592	10.69	7.76	5.882	4.209	3.191
5 feet	Far	6.235	6.978	8.335	11.874	26.511	∞	∞
	Near	4.212	3.963	3.683	3.346	3.022	2.605	2.251
4 feet	Far	4.688	5.063	5.683	6.994	9.982	57.984	∞
	Near	3.512	3.349	3.16	2.925	2.69	2.373	2.092
3 feet	Far	3.32	3.478	3.721	4.165	4.924	7.587	31.963
	Near	2.749	2.66	2.553	2.414	2.27	2.063	1.869
2 feet	Far	2.1	2.146	2.211	2.318	2.472	2.829	3.536
	Near	1.913	1.88	1.839	1.784	1.722	1.627	1.53

Distance in feet | Confusion circle : 0.025 mm

F = 20 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		39.283	27.984	20.337	14.595	10.915	7.634	5.639
40 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	20.141	16.777	13.769	10.944	8.789	6.58	5.077
20 feet	Far	39.439	66.975	1158.296	∞	∞	∞	∞
	Near	13.54	11.977	10.405	8.751	7.354	5.779	4.615
15 feet	Far	23.491	30.884	53.675	∞	∞	∞	∞
	Near	11.111	10.057	8.947	7.719	6.631	5.345	4.35
10 feet	Far	12.99	14.87	18.475	29.083	106.546	∞	∞
	Near	8.176	7.615	6.987	6.244	5.54	4.645	3.901
8 feet	Far	9.73	10.709	12.389	16.215	26.616	∞	∞
	Near	6.823	6.44	5.999	5.46	4.93	4.228	3.619
6 feet	Far	6.862	7.305	8.002	9.34	11.846	23.637	∞
	Near	5.348	5.123	4.855	4.514	4.164	3.677	3.229

Distance in feet | Confusion circle : 0.025 mm

F = 28 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		39.283	27.984	20.337	14.595	10.915	7.634	5.639
5 feet	Far	5.554	5.826	6.238	6.979	8.212	12.223	35.021
	Near	4.559	4.401	4.211	3.964	3.703	3.328	2.971
4 feet	Far	4.319	4.47	4.69	5.063	5.63	7.105	10.898
	Near	3.732	3.633	3.511	3.349	3.174	2.912	2.652
3 feet	Far	3.153	3.222	3.32	3.479	3.701	4.199	5.107
	Near	2.865	2.813	2.748	2.66	2.561	2.406	2.245
2 feet	Far	2.049	2.071	2.1	2.146	2.206	2.326	2.504
	Near	1.954	1.936	1.913	1.88	1.842	1.78	1.711

Distance in feet | Confusion circle : 0.025 mm

F = 28 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		51.13	36.358	26.369	18.87	14.062	9.778	7.172
40 feet	Far	179.401	∞	∞	∞	∞	∞	∞
	Near	22.759	19.367	16.2	13.101	10.65	8.057	6.243
20 feet	Far	32.043	42.929	78.99	∞	∞	∞	∞
	Near	14.635	13.197	11.689	10.031	8.568	6.849	5.526
15 feet	Far	20.708	24.658	33.157	68.507	∞	∞	∞
	Near	11.821	10.884	9.858	8.674	7.58	6.226	5.132
10 feet	Far	12.129	13.323	15.354	19.889	31.643	∞	∞
	Near	8.537	8.058	7.505	6.826	6.156	5.266	4.489
8 feet	Far	9.255	9.909	10.949	12.986	16.952	38.744	∞
	Near	7.064	6.744	6.364	5.885	5.395	4.718	4.103
6 feet	Far	6.636	6.945	7.41	8.232	9.566	13.629	30.835
	Near	5.486	5.302	5.077	4.784	4.472	4.02	3.586

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		51.13	36.358	26.369	18.87	14.062	9.778	7.172
5 feet	Far	5.411	5.605	5.889	6.37	7.098	8.986	13.803
	Near	4.654	4.526	4.369	4.16	3.933	3.593	3.257
4 feet	Far	4.239	4.348	4.504	4.758	5.121	5.955	7.568
	Near	3.791	3.712	3.613	3.478	3.329	3.098	2.861
3 feet	Far	3.115	3.166	3.238	3.35	3.502	3.82	4.335
	Near	2.895	2.854	2.802	2.73	2.648	2.517	2.376
2 feet	Far	2.037	2.053	2.075	2.109	2.152	2.236	2.355
	Near	1.965	1.951	1.932	1.906	1.876	1.825	1.767

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		77.995	56.461	40.847	29.132	21.622	14.928	10.858
40 feet	Far	80.825	134.408	1991.516	∞	∞	∞	∞
	Near	26.728	23.725	20.531	17.17	14.328	11.124	8.753
20 feet	Far	26.466	30.291	38.019	61.271	258.857	∞	∞
	Near	16.126	15.016	13.709	12.169	10.711	8.863	7.33
15 feet	Far	18.275	19.978	22.991	29.64	46.377	∞	∞
	Near	12.753	12.063	11.222	10.189	9.167	7.804	6.612
10 feet	Far	11.288	11.886	12.843	14.588	17.567	27.958	118.852
	Near	8.99	8.657	8.234	7.687	7.114	6.297	5.527
8 feet	Far	8.774	9.118	9.65	10.567	11.988	15.871	27.296
	Near	7.361	7.143	6.862	6.49	6.09	5.499	4.92
6 feet	Far	6.399	6.569	6.824	7.243	7.843	9.232	11.971
	Near	5.653	5.531	5.37	5.152	4.911	4.539	4.158

Distance in feet | Confusion circle : 0.025 mm

F = 40 mm



APERTURE		T 2.8	T 4	T 5.6	T 8	T 11	T 16	T 22
HYPERFOCAL DISTANCE		77.995	56.461	40.847	29.132	21.622	14.928	10.858
5 feet	Far	5.26	5.369	5.53	5.788	6.145	6.921	8.269
	Near	4.768	4.685	4.574	4.422	4.251	3.982	3.698
4 feet	Far	4.152	4.215	4.306	4.449	4.641	5.035	5.655
	Near	3.86	3.81	3.741	3.646	3.537	3.362	3.17
3 feet	Far	3.074	3.104	3.147	3.213	3.299	3.467	3.711
	Near	2.93	2.905	2.87	2.82	2.762	2.667	2.559
2 feet	Far	2.024	2.034	2.047	2.068	2.094	2.142	2.208
	Near	1.977	1.968	1.956	1.939	1.918	1.883	1.842

Distance in feet | Confusion circle : 0.025 mm

F = 40 mm