



OPTIMO *STYLE* 25 - 250



DEPTH-OF-FIELD TABLES
DISTANCES IN FEET



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.



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		27.638	26.095	18.858	13.458	10.055	7.179	5.481
50 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	21.919	21.207	17.320	13.662	10.903	8.223	6.461
30 feet	Far	140.596	182.993	∞	∞	∞	∞	∞
	Near	17.136	16.708	14.247	11.724	9.671	7.540	6.057
20 feet	Far	40.697	43.527	85.585	∞	∞	∞	∞
	Near	13.462	13.204	11.659	9.956	8.472	6.828	5.617
16 feet	Far	35.767	38.809	98.000	∞	∞	∞	∞
	Near	10.540	10.331	9.092	7.746	6.590	5.327	4.408
13 feet	Far	23.088	24.283	38.390	390.707	∞	∞	∞
	Near	9.221	9.065	8.119	7.052	6.102	5.025	4.216
11 feet	Far	17.185	17.820	24.159	53.907	∞	∞	∞
	Near	8.222	8.101	7.354	6.487	5.692	4.763	4.044

Distance in feet | Confusion circle : 0.025 mm

F = 25 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		27.638	26.095	18.858	13.458	10.055	7.179	5.481
9 feet	Far	12.554	12.876	15.743	24.040	76.072	∞	∞
	Near	7.109	7.021	6.473	5.814	5.187	4.427	3.817
7 feet	Far	8.823	8.971	10.182	12.872	19.574	361.899	∞
	Near	5.860	5.804	5.445	4.996	4.551	3.984	3.507
5 feet	Far	5.754	5.809	6.234	7.029	8.416	13.090	47.159
	Near	4.450	4.421	4.231	3.983	3.723	3.371	3.054
4 feet	Far	4.414	4.443	4.660	5.041	5.633	7.150	10.972
	Near	3.674	3.656	3.538	3.379	3.208	2.966	2.740

Distance in feet | Confusion circle : 0.025 mm

F = 25 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		49.306	46.508	33.385	23.600	17.433	12.221	9.144
50 feet	Far	∞	∞	∞	∞	∞	∞	∞
	Near	25.264	24.534	20.440	16.414	13.260	10.094	7.954
30 feet	Far	73.867	81.291	278.514	∞	∞	∞	∞
	Near	19.064	18.654	16.239	13.642	11.433	9.042	7.317
20 feet	Far	32.466	33.781	47.265	120.834	∞	∞	∞
	Near	14.587	14.353	12.918	11.262	9.751	7.998	6.650
16 feet	Far	22.861	23.490	29.135	45.990	172.778	∞	∞
	Near	12.402	12.236	11.199	9.957	8.781	7.360	6.223
13 feet	Far	17.045	17.383	20.200	26.832	45.967	∞	∞
	Near	10.573	10.455	9.707	8.783	7.876	6.738	5.793
11 feet	Far	13.673	13.884	15.573	19.117	26.870	93.262	∞
	Near	9.250	9.162	8.597	7.881	7.160	6.227	5.429

Distance in feet | Confusion circle : 0.025 mm

F = 35 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		49.306	46.508	33.385	23.600	17.433	12.221	9.144
9 feet	Far	10.636	10.758	11.703	13.512	16.803	29.337	403.880
	Near	7.833	7.773	7.376	6.861	6.327	5.611	4.975
7 feet	Far	7.886	7.948	8.420	9.256	10.587	14.152	24.317
	Near	6.313	6.276	6.030	5.701	5.347	4.854	4.396
5 feet	Far	5.384	5.409	5.599	5.913	6.366	7.349	9.086
	Near	4.677	4.658	4.536	4.367	4.178	3.901	3.629
4 feet	Far	4.215	4.229	4.332	4.498	4.726	5.185	5.892
	Near	3.811	3.800	3.726	3.623	3.504	3.326	3.144

Distance in feet | Confusion circle : 0.025 mm

F = 35 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		95.972	90.471	64.685	45.465	33.353	23.119	17.076
50 feet	Far	102.346	109.439	212.924	∞	∞	∞	∞
	Near	33.268	32.605	28.633	24.25	20.428	16.187	13.059
30 feet	Far	42.832	43.996	54.364	84.405	273.897	∞	∞
	Near	23.172	22.856	20.874	18.494	16.232	13.488	11.287
20 feet	Far	24.805	25.18	28.161	34.291	47.135	132.781	∞
	Near	16.798	16.636	15.591	14.26	12.913	11.16	9.648
16 feet	Far	18.855	19.066	20.686	23.73	29.087	47.581	206.808
	Near	13.925	13.816	13.103	12.17	11.196	9.88	8.699
13 feet	Far	14.769	14.894	15.837	17.51	20.178	27.351	48.01
	Near	11.629	11.555	11.065	10.409	9.705	8.724	7.812
11 feet	Far	12.204	12.287	12.904	13.963	15.56	19.372	27.536
	Near	10.026	9.972	9.614	9.127	8.595	7.834	7.107

Distance in feet | Confusion circle : 0.025 mm

F = 50 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		95.972	90.471	64.685	45.465	33.353	23.119	17.076
9 feet	Far	9.758	9.809	10.182	10.804	11.696	13.634	17.051
	Near	8.361	8.325	8.083	7.748	7.375	6.827	6.288
7 feet	Far	7.421	7.449	7.649	7.972	8.416	9.309	10.678
	Near	6.63	6.608	6.464	6.261	6.029	5.679	5.321
5 feet	Far	5.187	5.199	5.284	5.419	5.597	5.933	6.395
	Near	4.829	4.819	4.75	4.651	4.536	4.355	4.164
4 feet	Far	4.106	4.113	4.161	4.235	4.331	4.507	4.74
	Near	3.901	3.895	3.854	3.796	3.726	3.616	3.495

Distance in feet | Confusion circle : 0.025 mm

F = 50 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		212.119	199.897	142.617	99.931	73.035	50.309	36.891
50 feet	Far	64.867	66.078	76.001	98.146	153.906	4896.839	∞
	Near	40.732	40.276	37.357	33.715	30.104	25.516	21.657
30 feet	Far	34.652	34.987	37.519	42.096	49.622	71.378	149.819
	Near	26.472	26.282	25.036	23.383	21.626	19.204	16.979
20 feet	Far	21.902	22.031	22.978	24.564	26.871	31.991	41.413
	Near	18.413	18.324	17.727	16.906	15.994	14.666	13.368
16 feet	Far	17.165	17.242	17.804	18.719	19.997	22.63	26.851
	Near	14.99	14.932	14.542	13.997	13.38	12.457	11.528
13 feet	Far	13.737	13.786	14.132	14.687	15.44	16.92	19.104
	Near	12.342	12.304	12.045	11.678	11.256	10.613	9.947
11 feet	Far	11.509	11.542	11.777	12.15	12.647	13.595	14.93
	Near	10.537	10.51	10.325	10.061	9.755	9.279	8.779

Distance in feet | Confusion circle : 0.025 mm

F = 75 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		212.119	199.897	142.617	99.931	73.035	50.309	36.891
9 feet	Far	9.325	9.345	9.493	9.724	10.027	10.59	11.35
	Near	8.699	8.681	8.56	8.384	8.178	7.854	7.505
7 feet	Far	7.183	7.194	7.276	7.403	7.566	7.862	8.247
	Near	6.828	6.817	6.746	6.644	6.521	6.325	6.11
5 feet	Far	5.082	5.087	5.123	5.179	5.249	5.374	5.53
	Near	4.921	4.916	4.883	4.835	4.777	4.683	4.576
4 feet	Far	4.047	4.05	4.07	4.102	4.141	4.21	4.295
	Near	3.954	3.952	3.933	3.905	3.87	3.814	3.751

Distance in feet | Confusion circle : 0.025 mm

F = 75 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		375.138	353.495	252.045	176.432	128.789	88.532	64.762
50 feet	Far	57.418	57.947	61.934	69.062	80.566	112.37	211.746
	Near	44.301	43.994	41.964	39.26	36.37	32.358	28.647
30 feet	Far	32.456	32.621	33.817	35.786	38.572	44.451	54.289
	Near	27.897	27.778	26.974	25.856	24.599	22.737	20.881
20 feet	Far	21.029	21.096	21.575	22.335	23.357	25.324	28.141
	Near	19.07	19.016	18.647	18.122	17.513	16.575	15.595
16 feet	Far	16.637	16.677	16.968	17.424	18.025	19.146	20.675
	Near	15.413	15.378	15.141	14.801	14.401	13.775	13.105
13 feet	Far	13.406	13.431	13.614	13.898	14.268	14.942	15.831
	Near	12.62	12.597	12.442	12.217	11.951	11.527	11.067
11 feet	Far	11.281	11.299	11.425	11.619	11.869	12.319	12.901
	Near	10.733	10.718	10.608	10.448	10.258	9.952	9.615

Distance in feet | Confusion circle : 0.025 mm

F = 100 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		375.138	353.495	252.045	176.432	128.789	88.532	64.762
9 feet	Far	9.18	9.191	9.271	9.394	9.55	9.828	10.18
	Near	8.827	8.817	8.746	8.641	8.515	8.311	8.084
7 feet	Far	7.102	7.108	7.153	7.221	7.307	7.459	7.647
	Near	6.901	6.895	6.854	6.794	6.72	6.6	6.464
5 feet	Far	5.046	5.049	5.069	5.099	5.137	5.203	5.284
	Near	4.955	4.952	4.933	4.905	4.871	4.815	4.75
4 feet	Far	4.026	4.028	4.039	4.057	4.078	4.115	4.16
	Near	3.974	3.973	3.962	3.945	3.926	3.893	3.854

Distance in feet | Confusion circle : 0.025 mm

F = 100 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		585.429	551.654	393.27	275.184	200.771	137.893	100.763
50 feet	Far	54.506	54.81	57.029	60.713	65.999	77.439	97.488
	Near	46.192	45.978	44.535	42.539	40.31	37.036	33.806
30 feet	Far	31.527	31.626	32.334	33.458	34.965	37.857	41.977
	Near	28.618	28.537	27.988	27.205	26.297	24.895	23.426
20 feet	Far	20.647	20.688	20.98	21.433	22.022	23.101	24.525
	Near	19.394	19.358	19.111	18.754	18.33	17.658	16.927
16 feet	Far	16.402	16.427	16.606	16.882	17.237	17.875	18.697
	Near	15.619	15.596	15.439	15.21	14.936	14.497	14.012
13 feet	Far	13.257	13.273	13.386	13.56	13.782	14.176	14.674
	Near	12.754	12.739	12.637	12.487	12.307	12.015	11.688
11 feet	Far	11.178	11.19	11.268	11.388	11.54	11.807	12.141
	Near	10.828	10.817	10.745	10.64	10.512	10.304	10.069

Distance in feet | Confusion circle : 0.025 mm

F = 120 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		585.429	551.654	393.27	275.184	200.771	137.893	100.763
9 feet	Far	9.114	9.122	9.172	9.248	9.344	9.512	9.719
	Near	8.889	8.882	8.835	8.766	8.683	8.545	8.389
7 feet	Far	7.065	7.069	7.097	7.14	7.193	7.286	7.4
	Near	6.937	6.933	6.906	6.866	6.818	6.738	6.646
5 feet	Far	5.029	5.031	5.044	5.063	5.087	5.128	5.177
	Near	4.971	4.969	4.957	4.939	4.917	4.88	4.837
4 feet	Far	4.017	4.018	4.025	4.036	4.05	4.073	4.101
	Near	3.983	3.982	3.975	3.965	3.952	3.93	3.905

Distance in feet | Confusion circle : 0.025 mm

F = 120 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		842.023	793.472	565.665	395.751	288.663	198.17	144.733
50 feet	Far	53.047	53.246	54.681	56.982	60.116	66.299	75.504
	Near	47.29	47.133	46.069	44.565	42.838	40.208	37.496
30 feet	Far	31.045	31.111	31.584	32.32	33.28	35.047	37.4
	Near	29.025	28.968	28.572	28	27.324	26.254	25.097
20 feet	Far	20.445	20.473	20.67	20.974	21.362	22.054	22.935
	Near	19.575	19.55	19.374	19.117	18.809	18.31	17.756
16 feet	Far	16.277	16.294	16.416	16.602	16.839	17.256	17.778
	Near	15.733	15.717	15.606	15.442	15.245	14.923	14.561
13 feet	Far	13.177	13.188	13.266	13.384	13.533	13.794	14.117
	Near	12.828	12.817	12.745	12.639	12.51	12.298	12.058
11 feet	Far	11.123	11.131	11.185	11.266	11.369	11.548	11.767
	Near	10.88	10.872	10.822	10.747	10.656	10.506	10.335

Distance in feet | Confusion circle : 0.025 mm

F = 150 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		842.023	793.472	565.665	395.751	288.663	198.17	144.733
9 feet	Far	9.079	9.084	9.119	9.171	9.236	9.349	9.487
	Near	8.922	8.918	8.885	8.836	8.777	8.679	8.566
7 feet	Far	7.045	7.048	7.067	7.096	7.133	7.196	7.272
	Near	6.956	6.953	6.934	6.907	6.872	6.816	6.75
5 feet	Far	5.02	5.022	5.03	5.044	5.06	5.088	5.122
	Near	4.98	4.979	4.97	4.957	4.942	4.916	4.885
4 feet	Far	4.012	4.012	4.017	4.025	4.034	4.05	4.069
	Near	3.988	3.988	3.983	3.975	3.966	3.951	3.934

Distance in feet | Confusion circle : 0.025 mm

F = 150 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		1462.057	1405.327	1001.805	700.762	511.019	350.675	255.988
50 feet	Far	51.71	51.781	52.537	53.712	55.241	58.042	61.75
	Near	48.402	48.34	47.702	46.778	45.685	43.951	42.069
30 feet	Far	30.592	30.617	30.873	31.266	31.765	32.65	33.763
	Near	29.431	29.408	29.177	28.837	28.427	27.762	27.016
20 feet	Far	20.254	20.264	20.373	20.538	20.746	21.108	21.554
	Near	19.753	19.743	19.642	19.491	19.309	19.009	18.667
16 feet	Far	16.158	16.165	16.232	16.334	16.463	16.685	16.955
	Near	15.845	15.839	15.775	15.68	15.565	15.373	15.154
13 feet	Far	13.101	13.106	13.149	13.214	13.295	13.436	13.606
	Near	12.9	12.896	12.855	12.794	12.719	12.594	12.45
11 feet	Far	11.071	11.074	11.103	11.149	11.205	11.302	11.419
	Near	10.93	10.928	10.899	10.856	10.803	10.715	10.614

Distance in feet | Confusion circle : 0.025 mm

F = 200 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		1462.057	1405.327	1001.805	700.762	511.019	350.675	255.988
9 feet	Far	9.045	9.047	9.067	9.095	9.132	9.193	9.268
	Near	8.955	8.953	8.935	8.907	8.873	8.816	8.749
7 feet	Far	7.026	7.027	7.038	7.054	7.074	7.109	7.151
	Near	6.974	6.973	6.963	6.947	6.927	6.895	6.856
5 feet	Far	5.012	5.012	5.017	5.024	5.034	5.049	5.068
	Near	4.988	4.988	4.983	4.976	4.967	4.952	4.934
4 feet	Far	4.007	4.007	4.01	4.014	4.019	4.028	4.039
	Near	3.993	3.993	3.99	3.986	3.981	3.972	3.962

Distance in feet | Confusion circle : 0.025 mm

F = 200 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		2198.869	2198.869	1589.784	1111.454	810.299	555.901	405.697
50 feet	Far	51.124	51.124	51.568	52.276	53.179	54.782	56.809
	Near	48.926	48.926	48.527	47.919	47.189	46.006	44.684
30 feet	Far	30.391	30.391	30.544	30.785	31.089	31.617	32.265
	Near	29.619	29.619	29.476	29.256	28.989	28.548	28.046
20 feet	Far	20.168	20.168	20.233	20.335	20.463	20.684	20.951
	Near	19.835	19.835	19.773	19.676	19.559	19.363	19.137
16 feet	Far	16.105	16.105	16.145	16.209	16.288	16.425	16.589
	Near	15.897	15.897	15.857	15.797	15.723	15.599	15.455
13 feet	Far	13.067	13.067	13.093	13.134	13.185	13.271	13.376
	Near	12.934	12.934	12.908	12.869	12.821	12.741	12.648
11 feet	Far	11.047	11.047	11.065	11.093	11.128	11.189	11.261
	Near	10.954	10.954	10.936	10.909	10.875	10.819	10.753

Distance in feet | Confusion circle : 0.025 mm

F = 250 mm



APERTURE		T3.5	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL DISTANCE		2198.869	2198.869	1589.784	1111.454	810.299	555.901	405.697
9 feet	Far	9.03	9.03	9.042	9.06	9.082	9.121	9.167
	Near	8.97	8.97	8.959	8.941	8.919	8.883	8.84
7 feet	Far	7.017	7.017	7.024	7.034	7.047	7.068	7.094
	Near	6.983	6.983	6.976	6.966	6.954	6.933	6.909
5 feet	Far	5.008	5.008	5.011	5.015	5.021	5.031	5.043
	Near	4.992	4.992	4.989	4.985	4.979	4.97	4.958
4 feet	Far	4.004	4.004	4.006	4.009	4.012	4.018	4.024
	Near	3.996	3.996	3.994	3.991	3.988	3.983	3.976

Distance in feet | Confusion circle : 0.025 mm

F = 250 mm