



OPTIMO 48-130

DEPTH-OF-FIELD TABLES  
DISTANCE IN FEET

Angénieux®

REFERENCE : 321901 - A





## **DEPTH-OF-FIELD TABLES**

**F = 48 - 130 mm**

The depths of field tables are provided for information purposes only and are estimated with a circle of confusion of 0.013mm (1/2000inch).

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 = 48 - 130 mm**

*Les tables de profondeur de champ sont fournies à titre indicatif pour un cercle de confusion moyen de 0.013mm (1/2000inch).*

*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 les 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	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		220.804	169.671	121.435	85.195	62.128	42.907	31.348
60 feet	Far	82.181	92.558	118.271	203.302	2074.19	∞	∞
	Near	47.295	44.458	40.31	35.373	30.695	25.185	20.746
30 feet	Far	34.618	36.313	39.656	46.037	57.682	100.084	919.33
	Near	26.484	25.58	24.166	22.32	20.383	17.823	15.503
20 feet	Far	21.927	22.587	23.821	25.957	29.247	37.13	55.146
	Near	18.391	17.956	17.256	16.304	15.257	13.792	12.375
15 feet	Far	16.045	16.391	17.024	18.074	19.59	22.792	28.425
	Near	14.087	13.833	13.418	12.842	12.191	11.248	10.298
12 feet	Far	12.651	12.863	13.244	13.863	14.727	16.443	19.147
	Near	11.415	11.25	10.977	10.593	10.152	9.496	8.818
10 feet	Far	10.442	10.584	10.838	11.244	11.798	12.86	14.435
	Near	9.595	9.48	9.288	9.015	8.697	8.217	7.71

Distance in feet | Confusion circle : 0.025 mm

**F = 48 mm**



APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		220.804	169.671	121.435	85.195	62.128	42.907	31.348
8 feet	Far	8.275	8.362	8.517	8.761	9.087	9.692	10.543
	Near	7.744	7.67	7.546	7.368	7.158	6.835	6.487
7 feet	Far	7.207	7.272	7.387	7.567	7.806	8.242	8.84
	Near	6.806	6.749	6.654	6.517	6.355	6.103	5.827
6 feet	Far	6.148	6.195	6.277	6.404	6.571	6.871	7.274
	Near	5.859	5.818	5.749	5.648	5.528	5.339	5.131
5 feet	Far	5.1	5.131	5.185	5.27	5.379	5.573	5.828
	Near	4.904	4.876	4.829	4.759	4.676	4.544	4.396
4 feet	Far	4.061	4.08	4.113	4.163	4.229	4.343	4.489
	Near	3.941	3.924	3.894	3.851	3.798	3.714	3.619
3 feet	Far	3.114	3.124	3.142	3.17	3.205	3.266	3.342
1 inch	Near	3.047	3.037	3.021	2.996	2.966	2.918	2.863

Distance in feet | Confusion circle : 0.013 mm

**F = 48 mm**



Distance in feet | Confusion circle : 0.013 mm

APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		282.57	217.128	155.375	108.972	79.431	54.816	40.013
60 feet	Far	76.017	82.705	97.465	133.246	246.847	$\infty$	$\infty$
	Near	49.59	47.126	43.423	38.852	34.35	28.817	24.17
30 feet	Far	33.487	34.709	37.036	41.19	47.929	65.992	121.321
	Near	27.18	26.432	25.238	23.641	21.913	19.547	17.315
20 feet	Far	21.473	21.963	22.861	24.36	26.541	31.217	39.676
	Near	18.72	18.366	17.789	16.989	16.088	14.789	13.489
15 feet	Far	15.803	16.064	16.533	17.294	18.352	20.444	23.715
	Near	14.277	14.072	13.735	13.259	12.71	11.894	11.048
12 feet	Far	12.502	12.663	12.949	13.405	14.024	15.199	16.912
	Near	11.538	11.406	11.186	10.871	10.504	9.947	9.355
10 feet	Far	10.342	10.45	10.642	10.944	11.348	12.095	13.142
	Near	9.681	9.589	9.435	9.213	8.951	8.548	8.112

F = 55 mm





APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		282.57	217.128	155.375	108.972	79.431	54.816	40.013
8 feet	Far	8.213	8.28	8.398	8.581	8.823	9.259	9.848
	Near	7.798	7.739	7.641	7.497	7.326	7.059	6.764
7 feet	Far	7.16	7.211	7.298	7.435	7.613	7.931	8.353
	Near	6.847	6.802	6.727	6.617	6.485	6.277	6.047
6 feet	Far	6.115	6.151	6.214	6.31	6.436	6.657	6.947
	Near	5.889	5.857	5.802	5.721	5.624	5.47	5.297
5 feet	Far	5.078	5.102	5.144	5.208	5.291	5.435	5.621
	Near	4.925	4.903	4.865	4.81	4.743	4.636	4.514
4 feet	Far	4.047	4.062	4.088	4.126	4.176	4.262	4.371
	Near	3.954	3.94	3.917	3.882	3.84	3.773	3.695
3 feet	Far	3.106	3.114	3.128	3.149	3.176	3.223	3.28
1 inch	Near	3.054	3.047	3.034	3.014	2.99	2.952	2.907

Distance in feet | Confusion circle : 0.013 mm

**F = 55 mm**



Distance in feet | Confusion circle : 0.013 mm

APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		394.336	303.013	216.8	151.999	110.743	76.365	55.689
60 feet	Far	70.658	74.67	82.757	98.859	130.715	283.147	∞
	Near	52.155	50.178	47.111	43.158	39.072	33.77	29.054
30 feet	Far	32.416	33.226	34.718	37.233	40.948	49.138	64.795
	Near	27.924	27.354	26.427	25.15	23.721	21.678	19.654
20 feet	Far	21.033	21.367	21.967	22.935	24.276	26.903	30.95
	Near	19.066	18.802	18.364	17.745	17.03	15.963	14.85
15 feet	Far	15.567	15.746	16.066	16.572	17.252	18.522	20.33
	Near	14.475	14.323	14.071	13.709	13.283	12.632	11.933
12 feet	Far	12.355	12.467	12.664	12.972	13.38	14.122	15.136
	Near	11.665	11.568	11.405	11.169	10.888	10.452	9.974
10 feet	Far	10.243	10.318	10.451	10.658	10.928	11.412	12.056
	Near	9.769	9.702	9.588	9.423	9.224	8.913	8.567

F = 65 mm







APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		394.336	303.013	216.8	151.999	110.743	76.365	55.689
8 feet	Far	8.152	8.198	8.281	8.407	8.571	8.86	9.237
	Near	7.854	7.812	7.739	7.633	7.505	7.301	7.072
7 feet	Far	7.114	7.149	7.211	7.305	7.427	7.64	7.915
	Near	6.89	6.857	6.802	6.721	6.623	6.466	6.288
6 feet	Far	6.082	6.107	6.151	6.219	6.305	6.455	6.646
	Near	5.92	5.897	5.857	5.798	5.726	5.61	5.478
5 feet	Far	5.055	5.072	5.102	5.147	5.204	5.303	5.428
	Near	4.946	4.93	4.903	4.862	4.813	4.733	4.641
4 feet	Far	4.034	4.044	4.062	4.09	4.124	4.184	4.258
	Near	3.967	3.957	3.94	3.915	3.884	3.834	3.776
3 feet	Far	3.099	3.104	3.114	3.129	3.148	3.181	3.22
1 inch	Near	3.062	3.056	3.047	3.033	3.015	2.987	2.954

Distance in feet | Confusion circle : 0.013 mm

**F = 65 mm**



APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		524.698	403.205	288.462	202.197	147.271	101.501	73.974
60 feet	Far	67.666	70.383	75.608	85.106	100.989	146.683	323.054
	Near	53.906	52.305	49.767	46.391	42.773	37.87	33.299
30 feet	Far	31.779	32.359	33.408	35.12	37.527	42.376	50.202
	Near	28.413	27.967	27.233	26.201	25.02	23.277	21.486
20 feet	Far	20.766	21.009	21.441	22.125	23.046	24.765	27.215
	Near	19.29	19.086	18.745	18.256	17.681	16.803	15.859
15 feet	Far	15.422	15.554	15.786	16.15	16.628	17.495	18.668
	Near	14.602	14.486	14.291	14.008	13.671	13.146	12.568
12 feet	Far	12.265	12.347	12.492	12.715	13.007	13.524	14.206
	Near	11.747	11.673	11.547	11.364	11.144	10.797	10.408
10 feet	Far	10.181	10.237	10.335	10.486	10.68	11.022	11.465
	Near	9.826	9.774	9.687	9.56	9.405	9.16	8.882

Distance in feet | Confusion circle : 0.013 mm

**F = 75 mm**





APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		524.698	403.205	288.462	202.197	147.271	101.501	73.974
8 feet	Far	8.113	8.148	8.209	8.302	8.421	8.628	8.892
	Near	7.89	7.858	7.802	7.721	7.622	7.463	7.281
7 feet	Far	7.085	7.112	7.157	7.227	7.316	7.469	7.664
	Near	6.917	6.892	6.85	6.788	6.712	6.59	6.45
6 feet	Far	6.061	6.08	6.113	6.163	6.226	6.335	6.471
	Near	5.94	5.922	5.892	5.847	5.791	5.702	5.598
5 feet	Far	5.041	5.054	5.076	5.109	5.152	5.224	5.314
	Near	4.959	4.947	4.926	4.896	4.858	4.796	4.725
4 feet	Far	4.025	4.033	4.047	4.067	4.093	4.136	4.19
	Near	3.975	3.967	3.955	3.936	3.912	3.874	3.829
3 feet	Far	3.094	3.098	3.106	3.117	3.131	3.155	3.184
1 inch	Near	3.066	3.062	3.055	3.044	3.031	3.009	2.984

Distance in feet | Confusion circle : 0.013 mm

**F = 75 mm**





Distance in feet | Confusion circle : 0.013 mm

APERTURE		T3	T4	T5.6	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		931.949	716.26	512.42	359.076	261.424	180.05	131.111
60 feet	Far	64.084	65.427	67.875	71.92	77.715	89.775	110.419
	Near	56.41	55.411	53.775	51.494	48.904	45.132	41.311
30 feet	Far	30.976	31.282	31.825	32.677	33.809	35.881	38.743
	Near	29.085	28.82	28.377	27.736	26.975	25.8	24.518
20 feet	Far	20.424	20.555	20.785	21.141	21.603	22.421	23.493
	Near	19.594	19.475	19.274	18.979	18.624	18.063	17.432
15 feet	Far	15.234	15.306	15.432	15.625	15.873	16.305	16.857
	Near	14.773	14.706	14.592	14.425	14.221	13.895	13.524
12 feet	Far	12.148	12.193	12.272	12.392	12.545	12.81	13.145
	Near	11.856	11.813	11.741	11.634	11.502	11.291	11.047
10 feet	Far	10.101	10.132	10.186	10.267	10.371	10.549	10.772
	Near	9.901	9.872	9.822	9.747	9.656	9.508	9.337

**F = 100 mm**





Distance in feet | Confusion circle : 0.013 mm

APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		931.949	716.26	512.42	359.076	261.424	180.05	131.111
8 feet	Far	8.063	8.083	8.116	8.167	8.231	8.341	8.477
	Near	7.938	7.919	7.887	7.84	7.782	7.688	7.578
7 feet	Far	7.048	7.062	7.087	7.126	7.174	7.256	7.357
	Near	6.953	6.939	6.915	6.879	6.835	6.763	6.679
6 feet	Far	6.034	6.045	6.063	6.09	6.125	6.184	6.256
	Near	5.966	5.956	5.938	5.913	5.881	5.828	5.767
5 feet	Far	5.023	5.03	5.042	5.061	5.084	5.123	5.171
	Near	4.977	4.97	4.958	4.941	4.919	4.883	4.841
4 feet	Far	4.014	4.019	4.026	4.037	4.051	4.075	4.104
	Near	3.986	3.982	3.974	3.964	3.95	3.928	3.902
3 feet	Far	3.088	3.09	3.094	3.101	3.108	3.122	3.137
1 inch	Near	3.072	3.07	3.066	3.06	3.052	3.04	3.025

**F = 100 mm**





Distance in feet | Confusion circle : 0.013 mm

APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		1395.304	1132.383	810.131	567.655	413.211	284.505	207.101
60 feet	Far	62.667	63.321	64.749	67.02	70.096	75.901	84.308
	Near	57.553	57.014	55.907	54.324	52.468	49.649	46.642
30 feet	Far	30.644	30.798	31.128	31.638	32.299	33.465	34.985
	Near	29.383	29.243	28.952	28.527	28.013	27.198	26.28
20 feet	Far	20.281	20.347	20.489	20.706	20.984	21.464	22.072
	Near	19.727	19.665	19.534	19.342	19.107	18.729	18.294
15 feet	Far	15.156	15.192	15.27	15.389	15.54	15.799	16.122
	Near	14.848	14.813	14.74	14.631	14.498	14.282	14.03
12 feet	Far	12.098	12.121	12.17	12.245	12.339	12.499	12.698
	Near	11.904	11.881	11.835	11.766	11.68	11.541	11.379
10 feet	Far	10.067	10.083	10.116	10.167	10.231	10.34	10.474
	Near	9.934	9.918	9.886	9.839	9.78	9.683	9.57

**F = 130 mm**





APERTURE		T3	T4	T5.60	T8	T11	T16	T22
HYPERFOCAL   DISTANCE		1395.304	1132.383	810.131	567.655	413.211	284.505	207.101
8 feet	Far	8.042	8.052	8.073	8.105	8.145	8.212	8.295
	Near	7.958	7.949	7.928	7.898	7.861	7.8	7.727
7 feet	Far	7.032	7.039	7.055	7.079	7.109	7.16	7.221
	Near	6.968	6.961	6.946	6.923	6.895	6.848	6.793
6 feet	Far	6.023	6.028	6.04	6.057	6.078	6.115	6.159
	Near	5.977	5.972	5.961	5.944	5.924	5.89	5.85
5 feet	Far	5.015	5.019	5.027	5.038	5.053	5.077	5.107
	Near	4.985	4.981	4.974	4.962	4.948	4.925	4.898
4 feet	Far	4.01	4.012	4.016	4.023	4.032	4.047	4.065
	Near	3.991	3.988	3.984	3.977	3.968	3.954	3.937
3 feet	Far	3.085	3.086	3.089	3.093	3.098	3.106	3.116
1 inch	Near	3.075	3.074	3.071	3.067	3.062	3.054	3.045

Distance in feet | Confusion circle : 0.013 mm

**F = 130 mm**

