

OPTIMO ULTRA COMPACT

DEPTH-OF-FIELD TABLES
DISTANCES IN METER
F37-102

angénieux®

The depths of field tables are provided for information purposes only and are estimated with a circle of confusion of 0.0125mm (0.000492inch). 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.



In case you require any further information please contact our service team at:
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APERTURE	T 2.90	T 4.00	T 5.60	T 8.00	T11.00	T16.00	T22.00
HYPERFOCAL DISTANCE	40.656	29.538	21.163	14.883	10.886	7.555	5.557
OBJECT DISTANCE	FAR	FAR	FAR	FAR	FAR	FAR	FAR
	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR
20	38.992	61.210	366.867	∞	∞	∞	∞
	13.498	12.027	10.388	8.636	7.145	5.567	4.419
15	23.537	30.082	50.689	∞	∞	∞	∞
	11.040	10.042	8.880	7.576	6.410	5.118	4.137
10	13.130	14.914	18.612	29.768	122.570	∞	∞
	8.092	7.550	6.883	6.082	5.317	4.407	3.668
6	6.968	7.426	8.216	9.788	12.910	28.043	∞
	5.275	5.045	4.747	4.362	3.964	3.448	2.990
5	5.644	5.936	6.422	7.329	8.921	14.101	48.923
	4.493	4.328	4.109	3.821	3.517	3.109	2.737
3	3.207	3.294	3.429	3.657	3.991	4.721	6.085
	2.820	2.758	2.672	2.554	2.422	2.232	2.044
2,5	2.638	2.694	2.781	2.924	3.128	3.544	4.234
	2.377	2.334	2.274	2.191	2.096	1.956	1.814
2	2.083	2.116	2.167	2.249	2.362	2.580	2.909
	1.924	1.897	1.859	1.805	1.743	1.649	1.551
1,5	1.542	1.559	1.585	1.625	1.678	1.776	1.913
	1.460	1.446	1.425	1.396	1.361	1.308	1.250
1,3	1.330	1.342	1.360	1.388	1.424	1.491	1.581
	1.271	1.261	1.246	1.225	1.199	1.159	1.116
1,15	1.172	1.181	1.194	1.214	1.241	1.288	1.352
	1.129	1.121	1.110	1.094	1.074	1.044	1.010
1	1.016	1.022	1.031	1.045	1.063	1.095	1.138
	0.985	0.979	0.971	0.960	0.946	0.924	0.899
0,9	0.912	0.917	0.923	0.934	0.948	0.972	1.003
	0.888	0.884	0.878	0.869	0.858	0.841	0.821
0,8	0.809	0.812	0.817	0.825	0.834	0.851	0.873
	0.792	0.788	0.784	0.777	0.769	0.756	0.742
0,7	0.706	0.708	0.712	0.717	0.723	0.735	0.749
	0.694	0.692	0.689	0.684	0.679	0.670	0.659
0,6	0.604	0.605	0.607	0.611	0.615	0.622	0.630
	0.596	0.595	0.593	0.590	0.586	0.581	0.574

APERTURE	T 2.90	T 4.00	T 5.60	T 8.00	T11.00	T16.00	T22.00
HYPERFOCAL DISTANCE	56.539	41.054	29.390	20.642	15.075	10.436	7.652
OBJECT DISTANCE	FAR	FAR	FAR	FAR	FAR	FAR	FAR
	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR
20	30.730	38.637	61.885	670.162	∞	∞	∞
	14.855	13.541	12.002	10.263	8.699	6.952	5.619
15	20.271	23.408	30.243	54.044	6181.244	∞	∞
	11.924	11.068	10.025	8.790	7.624	6.256	5.161
10	12.061	13.090	14.953	19.039	29.033	251.768	∞
	8.550	8.107	7.541	6.829	6.113	5.212	4.438
6	6.664	6.957	7.436	8.296	9.710	13.625	26.781
	5.460	5.281	5.041	4.722	4.377	3.907	3.467
5	5.445	5.637	5.942	6.470	7.286	9.251	13.779
	4.625	4.497	4.325	4.090	3.833	3.472	3.124
3	3.145	3.205	3.295	3.442	3.647	4.052	4.687
	2.868	2.822	2.757	2.665	2.559	2.402	2.239
2,5	2.597	2.636	2.695	2.790	2.918	3.164	3.525
	2.411	2.378	2.333	2.269	2.194	2.081	1.961
2	2.059	2.082	2.117	2.172	2.246	2.381	2.570
	1.945	1.925	1.897	1.856	1.808	1.734	1.653
1,5	1.530	1.542	1.560	1.587	1.623	1.687	1.772
	1.471	1.461	1.445	1.423	1.397	1.356	1.310
1,3	1.321	1.330	1.342	1.361	1.386	1.430	1.488
	1.279	1.272	1.261	1.245	1.226	1.195	1.161
1,15	1.166	1.172	1.181	1.195	1.213	1.245	1.286
	1.135	1.129	1.121	1.109	1.094	1.071	1.045
1	1.011	1.016	1.022	1.032	1.044	1.066	1.094
	0.989	0.985	0.979	0.971	0.960	0.944	0.924
0,9	0.909	0.912	0.917	0.924	0.934	0.950	0.971
	0.892	0.889	0.884	0.878	0.870	0.857	0.842
0,8	0.806	0.809	0.812	0.817	0.824	0.836	0.851
	0.794	0.792	0.788	0.784	0.778	0.768	0.757
0,7	0.704	0.706	0.708	0.712	0.717	0.725	0.734
	0.696	0.694	0.692	0.689	0.684	0.678	0.670
0,6	0.603	0.604	0.605	0.608	0.610	0.615	0.621
	0.597	0.596	0.595	0.593	0.590	0.586	0.581

APERTURE	T 2.90	T 4.00	T 5.60	T 8.00	T11.00	T16.00	T22.00
HYPERFOCAL DISTANCE	84.351	61.219	43.795	30.727	22.411	15.481	11.323
OBJECT DISTANCE	FAR	FAR	FAR	FAR	FAR	FAR	FAR
	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR
20	26.091	29.513	36.493	56.679	185.842	∞	∞
	16.232	15.153	13.820	12.215	10.673	8.830	7.327
15	18.156	19.738	22.610	28.952	44.714	521.892	∞
	12.789	12.114	11.253	10.172	9.087	7.723	6.555
10	11.290	11.873	12.840	14.635	17.753	27.645	85.254
	8.980	8.646	8.204	7.622	7.004	6.176	5.415
6	6.428	6.608	6.888	7.358	8.049	9.554	12.356
	5.627	5.498	5.321	5.077	4.802	4.408	4.017
5	5.289	5.408	5.592	5.893	6.321	7.199	8.657
	4.742	4.651	4.526	4.350	4.150	3.856	3.557
3	3.096	3.134	3.191	3.281	3.402	3.626	3.941
	2.910	2.878	2.832	2.766	2.689	2.569	2.440
2,5	2.564	2.589	2.627	2.686	2.764	2.905	3.097
	2.439	2.417	2.386	2.340	2.286	2.201	2.109
2	2.039	2.054	2.077	2.112	2.157	2.238	2.345
	1.963	1.949	1.929	1.901	1.867	1.812	1.752
1,5	1.520	1.528	1.539	1.557	1.580	1.619	1.670
	1.481	1.473	1.463	1.448	1.429	1.400	1.366
1,3	1.314	1.320	1.328	1.340	1.356	1.384	1.419
	1.286	1.281	1.273	1.262	1.249	1.228	1.203
1,15	1.161	1.165	1.171	1.180	1.192	1.212	1.237
	1.140	1.136	1.130	1.122	1.112	1.096	1.077
1	1.007	1.010	1.015	1.021	1.029	1.043	1.061
	0.993	0.990	0.986	0.980	0.973	0.961	0.948
0,9	0.906	0.908	0.911	0.916	0.922	0.933	0.946
	0.894	0.892	0.889	0.885	0.879	0.870	0.860
0,8	0.804	0.806	0.808	0.812	0.816	0.824	0.833
	0.796	0.794	0.792	0.789	0.785	0.778	0.770
0,7	0.703	0.704	0.706	0.708	0.711	0.716	0.723
	0.697	0.696	0.695	0.692	0.690	0.685	0.679
0,6	0.602	0.602	0.603	0.605	0.607	0.610	0.614
	0.598	0.598	0.597	0.595	0.593	0.590	0.587

APERTURE	T 2.90	T 4.00	T 5.60	T 8.00	T11.00	T16.00	T22.00
HYPERFOCAL DISTANCE	136.501	99.031	70.807	49.639	36.168	24.943	18.208
OBJECT DISTANCE	FAR	FAR	FAR	FAR	FAR	FAR	FAR
	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR
20	23.364	24.960	27.720	33.246	44.333	100.427	∞
	17.491	16.698	15.667	14.342	12.975	11.204	9.636
15	16.801	17.605	18.925	21.328	25.369	37.163	84.790
	13.552	13.075	12.438	11.594	10.690	9.465	8.329
10	10.758	11.077	11.578	12.422	13.673	16.445	21.782
	9.344	9.118	8.808	8.382	7.905	7.224	6.551
6	6.257	6.361	6.518	6.769	7.114	7.776	8.763
	5.764	5.680	5.561	5.393	5.197	4.902	4.591
5	5.175	5.244	5.349	5.515	5.738	6.155	6.747
	4.837	4.779	4.696	4.577	4.437	4.223	3.993
3	3.058	3.081	3.115	3.167	3.235	3.356	3.514
	2.944	2.923	2.894	2.851	2.799	2.717	2.626
2,5	2.539	2.554	2.577	2.611	2.656	2.734	2.835
	2.462	2.448	2.428	2.399	2.363	2.306	2.242
2	2.024	2.033	2.047	2.067	2.094	2.140	2.198
	1.977	1.968	1.956	1.937	1.915	1.879	1.838
1,5	1.512	1.517	1.524	1.535	1.548	1.571	1.600
	1.488	1.483	1.477	1.467	1.455	1.436	1.414
1,3	1.309	1.312	1.317	1.325	1.334	1.350	1.370
	1.291	1.288	1.283	1.277	1.268	1.254	1.238
1,15	1.157	1.159	1.163	1.168	1.175	1.187	1.202
	1.144	1.141	1.138	1.132	1.126	1.116	1.103
1	1.005	1.006	1.009	1.013	1.018	1.026	1.036
	0.995	0.994	0.991	0.988	0.983	0.976	0.967
0,9	0.903	0.905	0.907	0.910	0.913	0.920	0.928
	0.897	0.895	0.893	0.891	0.887	0.881	0.875
0,8	0.803	0.804	0.805	0.807	0.810	0.814	0.820
	0.797	0.797	0.795	0.793	0.791	0.786	0.781
0,7	0.702	0.702	0.703	0.705	0.707	0.710	0.714
	0.698	0.698	0.697	0.695	0.693	0.691	0.687
0,6	0.601	0.602	0.602	0.603	0.604	0.606	0.609
	0.599	0.598	0.598	0.597	0.596	0.594	0.592

F90

APERTURE	T 2.90	T 4.00	T 5.60	T 8.00	T11.00	T16.00	T22.00
HYPERFOCAL DISTANCE	223.566	163.572	116.916	81.924	59.656	41.100	29.966
OBJECT DISTANCE	FAR	FAR	FAR	FAR	FAR	FAR	FAR
	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR
20	21.925	22.730	24.046	26.338	29.909	38.677	59.821
	18.389	17.862	17.131	16.142	15.057	13.546	12.095
15	16.049	16.474	17.149	18.275	19.913	23.423	29.745
	14.081	13.772	13.337	12.733	12.053	11.071	10.090
10	10.449	10.625	10.898	11.335	11.935	13.095	14.832
	9.589	9.446	9.242	8.953	8.616	8.109	7.576
6	6.154	6.213	6.303	6.442	6.626	6.959	7.406
	5.854	5.802	5.726	5.617	5.486	5.282	5.057
5	5.105	5.145	5.205	5.299	5.421	5.638	5.924
	4.899	4.864	4.811	4.735	4.643	4.498	4.336
3	3.035	3.049	3.068	3.099	3.138	3.205	3.290
	2.966	2.953	2.935	2.908	2.875	2.822	2.761
2,5	2.524	2.533	2.546	2.566	2.592	2.636	2.692
	2.477	2.468	2.456	2.438	2.415	2.379	2.336
2	2.014	2.020	2.028	2.040	2.056	2.082	2.115
	1.986	1.981	1.973	1.962	1.948	1.925	1.898
1,5	1.507	1.510	1.514	1.521	1.529	1.542	1.559
	1.493	1.490	1.486	1.480	1.473	1.461	1.446
1,3	1.305	1.307	1.310	1.315	1.320	1.330	1.342
	1.295	1.293	1.290	1.286	1.280	1.272	1.262
1,15	1.154	1.155	1.158	1.161	1.165	1.172	1.181
	1.146	1.145	1.143	1.139	1.135	1.129	1.121
1	1.003	1.004	1.005	1.008	1.011	1.016	1.022
	0.997	0.996	0.995	0.992	0.990	0.985	0.980
0,9	0.902	0.903	0.904	0.906	0.908	0.912	0.916
	0.898	0.897	0.896	0.894	0.892	0.889	0.884
0,8	0.802	0.802	0.803	0.804	0.806	0.809	0.812
	0.798	0.798	0.797	0.796	0.794	0.792	0.789
0,7	0.701	0.701	0.702	0.703	0.704	0.706	0.708
	0.699	0.699	0.698	0.697	0.696	0.694	0.692
0,6	0.601	0.601	0.601	0.602	0.603	0.604	0.605
	0.599	0.599	0.599	0.598	0.597	0.596	0.595

APERTURE	T 2.90	T 4.00	T 5.60	T 8.00	T11.00	T16.00	T22.00
HYPERFOCAL DISTANCE	255.012	199.427	142.533	99.861	72.707	50.078	36.501
OBJECT DISTANCE	FAR	FAR	FAR	FAR	FAR	FAR	FAR
	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR	NEAR
20	21.668	22.185	23.201	24.914	27.455	33.095	43.982
	18.574	18.212	17.584	16.721	15.756	14.378	13.017
15	15.912	16.187	16.717	17.583	18.802	21.266	25.255
	14.189	13.978	13.608	13.089	12.494	11.617	10.718
10	10.391	10.506	10.724	11.069	11.533	12.402	13.640
	9.638	9.541	9.370	9.124	8.835	8.394	7.920
6	6.135	6.173	6.246	6.358	6.504	6.763	7.105
	5.871	5.836	5.774	5.682	5.572	5.398	5.203
5	5.092	5.118	5.167	5.242	5.340	5.511	5.732
	4.912	4.888	4.844	4.780	4.703	4.580	4.442
3	3.031	3.040	3.056	3.080	3.112	3.166	3.233
	2.970	2.961	2.946	2.924	2.897	2.852	2.801
2,5	2.521	2.527	2.537	2.554	2.575	2.611	2.655
	2.480	2.474	2.464	2.449	2.430	2.400	2.364
2	2.013	2.016	2.023	2.033	2.045	2.067	2.093
	1.988	1.984	1.978	1.968	1.957	1.938	1.916
1,5	1.507	1.508	1.512	1.517	1.523	1.534	1.548
	1.494	1.492	1.488	1.484	1.477	1.468	1.456
1,3	1.305	1.306	1.308	1.312	1.317	1.324	1.334
	1.295	1.294	1.292	1.288	1.284	1.277	1.268
1,15	1.153	1.154	1.156	1.159	1.162	1.168	1.175
	1.147	1.146	1.144	1.141	1.138	1.133	1.126
1	1.002	1.003	1.004	1.006	1.009	1.013	1.018
	0.998	0.997	0.996	0.994	0.992	0.988	0.983
0,9	0.902	0.902	0.903	0.905	0.907	0.910	0.913
	0.898	0.898	0.897	0.895	0.894	0.891	0.887
0,8	0.801	0.802	0.802	0.803	0.805	0.807	0.810
	0.799	0.798	0.798	0.797	0.795	0.793	0.791
0,7	0.701	0.701	0.702	0.702	0.703	0.705	0.707
	0.699	0.699	0.698	0.698	0.697	0.695	0.694
0,6	0.601	0.601	0.601	0.602	0.602	0.603	0.604
	0.599	0.599	0.599	0.599	0.598	0.597	0.596