

ARRI/ZEISS Master Anamorphic Lenses | Depth-of-field Tables

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MA 35 – meter



ARRI/ZEISS Master Anamorphic MA 35/T1.9 depth of field tables in meter (circle of confusion: 0.025 mm)

Distance	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
meter	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
INF	23.93	INF	22.44	INF	16.08	INF	11.48	INF	8.17	INF	5.81	INF	4.12	INF	2.92	INF	2.07	INF
100	20.09	INF	19.03	INF	14.25	INF	10.52	INF	7.67	INF	5.55	INF	3.99	INF	2.85	INF	2.04	INF
50	16.73	INF	15.99	INF	12.48	INF	9.52	INF	7.13	INF	5.26	INF	3.84	INF	2.78	INF	2.00	INF
30	13.68	INF	13.18	INF	10.70	INF	8.45	INF	6.51	INF	4.92	INF	3.65	INF	2.68	INF	1.94	INF
20	11.15	97.28	10.81	133.17	9.08	INF	7.41	INF	5.88	INF	4.55	INF	3.44	INF	2.57	INF	1.88	INF
15	9.40	37.08	9.16	41.32	7.89	151.27	6.60	INF	5.35	INF	4.23	INF	3.26	INF	2.46	INF	1.83	INF
12	8.13	22.90	7.95	24.46	6.98	42.90	5.95	INF	4.92	INF	3.95	INF	3.09	INF	2.37	INF	1.78	INF
10	7.16	16.57	7.02	17.37	6.25	24.99	5.41	65.93	4.55	INF	3.71	INF	2.94	INF	2.28	INF	1.72	INF
8.0	6.08	11.71	5.97	12.10	5.41	15.37	4.77	24.85	4.08	194.79	3.40	INF	2.74	INF	2.16	INF	1.65	INF
7.0	5.48	9.68	5.40	9.95	4.93	12.05	4.39	17.20	3.81	43.35	3.20	INF	2.62	INF	2.08	INF	1.61	INF
6.0	4.85	7.87	4.79	8.04	4.42	9.36	3.98	12.19	3.49	21.29	2.98	INF	2.46	INF	1.98	INF	1.55	INF
5.5	4.52	7.03	4.46	7.17	4.14	8.20	3.75	10.29	3.32	16.08	2.85	79.11	2.38	INF	1.92	INF	1.51	INF
5.0	4.18	6.23	4.13	6.34	3.85	7.13	3.52	8.66	3.13	12.43	2.71	32.33	2.28	INF	1.86	INF	1.47	INF
4.5	3.82	5.47	3.78	5.56	3.55	6.15	3.26	7.26	2.93	9.73	2.56	18.77	2.17	INF	1.79	INF	1.43	INF
4.0	3.46	4.75	3.42	4.81	3.23	5.25	2.99	6.04	2.71	7.65	2.39	12.31	2.05	88.33	1.70	INF	1.38	INF
3.5	3.08	4.06	3.05	4.11	2.90	4.42	2.70	4.96	2.47	6.01	2.20	8.54	1.91	21.13	1.61	INF	1.31	INF
3.2	2.84	3.66	2.82	3.70	2.69	3.95	2.52	4.38	2.32	5.17	2.08	6.94	1.82	13.45	1.54	INF	1.27	INF
3.0	2.68	3.40	2.66	3.43	2.55	3.65	2.40	4.01	2.21	4.67	1.99	6.06	1.75	10.49	1.49	INF	1.24	INF
2.8	2.52	3.15	2.51	3.17	2.40	3.36	2.27	3.66	2.10	4.20	1.90	5.29	1.68	8.38	1.44	47.90	1.20	INF
2.6	2.36	2.90	2.34	2.92	2.25	3.08	2.13	3.33	1.99	3.76	1.81	4.62	1.61	6.80	1.39	20.54	1.16	INF
2.4	2.19	2.65	2.18	2.67	2.10	2.80	2.00	3.01	1.87	3.36	1.71	4.02	1.53	5.57	1.33	12.33	1.12	INF
2.3	2.11	2.53	2.10	2.55	2.02	2.66	1.93	2.85	1.81	3.16	1.66	3.74	1.49	5.06	1.30	10.06	1.10	INF
2.2	2.03	2.41	2.01	2.42	1.95	2.53	1.86	2.70	1.75	2.98	1.61	3.48	1.45	4.60	1.27	8.37	1.08	INF
2.1	1.94	2.29	1.93	2.30	1.87	2.40	1.79	2.55	1.68	2.80	1.55	3.24	1.40	4.18	1.23	7.08	1.05	378.17
2.0	1.86	2.17	1.85	2.18	1.79	2.27	1.71	2.40	1.62	2.62	1.50	3.01	1.36	3.80	1.20	6.05	1.03	37.24
1.9	1.77	2.05	1.76	2.06	1.71	2.14	1.64	2.26	1.55	2.45	1.44	2.78	1.31	3.45	1.16	5.21	1.00	18.65
1.8	1.68	1.94	1.67	1.95	1.63	2.01	1.57	2.12	1.49	2.29	1.38	2.57	1.26	3.13	1.12	4.51	0.97	12.00
1.7	1.59	1.82	1.59	1.83	1.55	1.89	1.49	1.98	1.42	2.13	1.33	2.37	1.21	2.84	1.09	3.93	0.94	8.58
1.6	1.51	1.71	1.50	1.71	1.46	1.77	1.41	1.85	1.35	1.97	1.26	2.18	1.16	2.57	1.04	3.43	0.91	6.50
1.5	1.42	1.59	1.41	1.60	1.38	1.65	1.33	1.71	1.28	1.82	1.20	2.00	1.11	2.32	1.00	2.99	0.88	5.09
1.4	1.33	1.48	1.32	1.49	1.29	1.53	1.25	1.58	1.20	1.68	1.14	1.82	1.05	2.09	0.96	2.62	0.85	4.09
1.3	1.24	1.37	1.23	1.37	1.21	1.41	1.17	1.46	1.13	1.53	1.07	1.66	1.00	1.87	0.91	2.28	0.81	3.33
1.2	1.15	1.26	1.14	1.26	1.12	1.29	1.09	1.33	1.05	1.40	1.00	1.50	0.94	1.67	0.86	1.99	0.77	2.73
1.1	1.06	1.15	1.05	1.15	1.03	1.18	1.01	1.21	0.98	1.26	0.93	1.34	0.88	1.48	0.81	1.73	0.73	2.26
1.0	0.96	1.04	0.96	1.04	0.95	1.06	0.92	1.09	0.90	1.13	0.86	1.20	0.81	1.30	0.75	1.49	0.68	1.87
0.95	0.92	0.99	0.91	0.99	0.90	1.01	0.88	1.03	0.86	1.07	0.82	1.13	0.78	1.22	0.72	1.38	0.66	1.70
0.90	0.87	0.93	0.87	0.93	0.86	0.95	0.84	0.97	0.82	1.01	0.78	1.06	0.75	1.14	0.70	1.28	0.64	1.54
0.85	0.82	0.88	0.82	0.88	0.81	0.89	0.80	0.91	0.77	0.94	0.75	0.99	0.71	1.06	0.67	1.18	0.61	1.40
0.80	0.78	0.83	0.78	0.83	0.77	0.84	0.75	0.86	0.73	0.88	0.71	0.92	0.68	0.98	0.64	1.08	0.59	1.27
0.78	0.76	0.80	0.76	0.81	0.75	0.82	0.73	0.83	0.72	0.86	0.69	0.89	0.66	0.95	0.62	1.05	0.57	1.22
0.76	0.74	0.78	0.74	0.78	0.73	0.80	0.72	0.81	0.70	0.83	0.68	0.87	0.65	0.92	0.61	1.01	0.56	1.17
0.75	0.73	0.77	0.73	0.77	0.72	0.78	0.71	0.80	0.69	0.82	0.67	0.85	0.64	0.91	0.60	0.99	0.56	1.14

MA 40 – meter



ARRI/ZEISS Master Anamorphic MA 40/T1.9 depth of field tables in meter (circle of confusion: 0.025 mm)

Distance	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
meter	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
INF	30.66	INF	28.68	INF	20.62	INF	14.76	INF	10.53	INF	7.49	INF	5.32	INF	3.77	INF	2.67	INF
100	24.63	INF	23.33	INF	17.71	INF	13.21	INF	9.71	INF	7.07	INF	5.11	INF	3.66	INF	2.62	INF
50	19.77	INF	18.92	INF	15.05	INF	11.67	INF	8.86	INF	6.61	INF	4.86	INF	3.54	INF	2.55	INF
30	15.65	363.07	15.11	INF	12.54	INF	10.10	INF	7.92	INF	6.07	INF	4.57	INF	3.38	INF	2.47	INF
20	12.41	51.44	12.08	58.18	10.37	277.84	8.65	INF	7.00	INF	5.52	INF	4.24	INF	3.20	INF	2.37	INF
15	10.29	27.68	10.06	29.52	8.85	49.27	7.56	917.61	6.27	INF	5.06	INF	3.97	INF	3.04	INF	2.29	INF
12	8.78	18.93	8.61	19.78	7.71	27.03	6.72	56.18	5.68	INF	4.66	INF	3.72	INF	2.90	INF	2.20	INF
10	7.66	14.39	7.53	14.87	6.84	18.63	6.04	28.98	5.19	135.42	4.33	INF	3.51	INF	2.76	INF	2.13	INF
8.0	6.43	10.58	6.34	10.84	5.84	12.70	5.25	16.79	4.60	30.79	3.91	INF	3.23	INF	2.59	INF	2.02	INF
7.0	5.77	8.90	5.70	9.08	5.29	10.35	4.80	12.91	4.25	19.84	3.66	82.62	3.05	INF	2.47	INF	1.95	INF
6.0	5.07	7.34	5.02	7.46	4.70	8.30	4.31	9.87	3.86	13.46	3.36	27.75	2.85	INF	2.34	INF	1.87	INF
5.0	4.34	5.90	4.30	5.97	4.06	6.50	3.77	7.42	3.42	9.28	3.03	14.38	2.60	64.47	2.17	INF	1.76	INF
4.5	3.96	5.21	3.93	5.27	3.73	5.68	3.48	6.37	3.18	7.69	2.84	10.88	2.46	26.39	2.07	INF	1.69	INF
4.0	3.57	4.55	3.54	4.60	3.38	4.90	3.17	5.41	2.92	6.33	2.63	8.35	2.30	15.18	1.96	INF	1.62	INF
3.5	3.17	3.92	3.14	3.95	3.02	4.17	2.85	4.53	2.65	5.16	2.41	6.42	2.13	9.82	1.83	38.89	1.53	INF
3.0	2.75	3.30	2.73	3.32	2.64	3.48	2.51	3.73	2.35	4.14	2.16	4.91	1.94	6.67	1.69	13.54	1.43	INF
2.8	2.58	3.06	2.57	3.08	2.48	3.21	2.37	3.42	2.23	3.77	2.05	4.40	1.85	5.75	1.62	10.22	1.38	INF
2.6	2.41	2.82	2.40	2.84	2.32	2.95	2.23	3.13	2.10	3.41	1.95	3.92	1.76	4.96	1.55	7.96	1.33	54.39
2.4	2.24	2.59	2.23	2.60	2.16	2.70	2.08	2.84	1.97	3.08	1.83	3.48	1.67	4.28	1.48	6.33	1.28	19.64
2.2	2.06	2.36	2.05	2.37	2.00	2.45	1.93	2.56	1.83	2.75	1.71	3.07	1.57	3.68	1.40	5.09	1.22	11.19
2.0	1.89	2.13	1.88	2.14	1.83	2.20	1.77	2.30	1.69	2.45	1.59	2.70	1.47	3.15	1.32	4.13	1.16	7.38
1.9	1.80	2.02	1.79	2.02	1.75	2.08	1.69	2.17	1.62	2.30	1.53	2.52	1.41	2.91	1.28	3.72	1.12	6.17
1.8	1.71	1.90	1.70	1.91	1.66	1.96	1.61	2.04	1.55	2.15	1.46	2.34	1.36	2.68	1.23	3.35	1.09	5.21
1.7	1.62	1.79	1.61	1.80	1.58	1.84	1.53	1.91	1.47	2.01	1.40	2.18	1.30	2.46	1.18	3.02	1.05	4.44
1.6	1.53	1.68	1.52	1.69	1.49	1.73	1.45	1.78	1.40	1.87	1.33	2.01	1.24	2.25	1.14	2.71	1.01	3.81
1.5	1.44	1.57	1.43	1.58	1.41	1.61	1.37	1.66	1.32	1.74	1.26	1.86	1.18	2.06	1.08	2.44	0.97	3.28
1.4	1.34	1.46	1.34	1.47	1.32	1.49	1.29	1.54	1.24	1.60	1.19	1.71	1.12	1.87	1.03	2.18	0.93	2.83
1.3	1.25	1.35	1.25	1.36	1.23	1.38	1.20	1.42	1.16	1.47	1.12	1.56	1.05	1.70	0.98	1.94	0.89	2.45
1.2	1.16	1.24	1.16	1.25	1.14	1.27	1.12	1.30	1.08	1.35	1.04	1.42	0.99	1.53	0.92	1.73	0.84	2.11
1.1	1.07	1.14	1.06	1.14	1.05	1.16	1.03	1.18	1.00	1.22	0.97	1.28	0.92	1.37	0.86	1.53	0.79	1.82
1.0	0.97	1.03	0.97	1.03	0.96	1.05	0.94	1.07	0.92	1.10	0.89	1.14	0.85	1.22	0.80	1.34	0.74	1.56
1.0	0.92	0.98	0.92	0.98	0.91	0.99	0.90	1.01	0.88	1.04	0.85	1.08	0.81	1.14	0.77	1.25	0.71	1.44
0.90	0.88	0.92	0.88	0.93	0.87	0.94	0.85	0.95	0.83	0.98	0.81	1.02	0.78	1.07	0.73	1.16	0.68	1.32
0.85	0.83	0.87	0.83	0.87	0.82	0.88	0.81	0.90	0.79	0.92	0.77	0.95	0.74	1.00	0.70	1.08	0.65	1.22
0.80	0.78	0.82	0.78	0.82	0.77	0.83	0.76	0.84	0.75	0.86	0.73	0.89	0.70	0.93	0.67	1.00	0.62	1.12
0.78	0.76	0.80	0.76	0.80	0.75	0.81	0.74	0.82	0.73	0.84	0.71	0.86	0.69	0.90	0.65	0.97	0.61	1.08
0.76	0.74	0.78	0.74	0.78	0.74	0.79	0.73	0.80	0.71	0.82	0.69	0.84	0.67	0.88	0.64	0.94	0.60	1.04
0.74	0.72	0.76	0.72	0.76	0.72	0.77	0.71	0.78	0.70	0.79	0.68	0.82	0.66	0.85	0.63	0.91	0.59	1.00
0.72	0.71	0.74	0.70	0.74	0.70	0.74	0.69	0.75	0.68	0.77	0.66	0.79	0.64	0.82	0.61	0.88	0.58	0.96
0.70	0.69	0.71	0.69	0.72	0.68	0.72	0.67	0.73	0.66	0.75	0.64	0.77	0.62	0.80	0.60	0.85	0.56	0.93

MA 50 – meter



ARRI/ZEISS Master Anamorphic MA 50/T1.9 depth of field tables in meter (circle of confusion: 0.025 mm)

Distance	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
meter	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
INF	45.37	INF	42.50	INF	30.82	INF	22.19	INF	15.90	INF	11.35	INF	8.08	INF	5.74	INF	4.07	INF
100	33.30	INF	31.72	INF	24.73	INF	18.85	INF	14.11	INF	10.41	INF	7.59	INF	5.49	INF	3.95	INF
50	24.99	INF	24.09	INF	19.83	INF	15.87	INF	12.37	INF	9.43	INF	7.06	INF	5.21	INF	3.80	INF
30	18.75	75.04	18.24	84.50	15.69	341.29	13.10	INF	10.62	INF	8.38	INF	6.45	INF	4.87	INF	3.62	INF
20	14.29	33.32	13.99	35.06	12.44	50.96	10.76	142.06	9.03	INF	7.36	INF	5.83	INF	4.51	INF	3.41	INF
15	11.54	21.42	11.35	22.12	10.31	27.54	9.13	42.12	7.85	167.74	6.56	INF	5.32	INF	4.20	INF	3.23	INF
12	9.68	15.78	9.54	16.16	8.80	18.87	7.92	24.73	6.95	44.09	5.91	INF	4.89	INF	3.92	INF	3.07	INF
10	8.34	12.49	8.24	12.73	7.67	14.35	7.00	17.50	6.23	25.38	5.39	69.96	4.52	INF	3.68	INF	2.92	INF
8.0	6.90	9.52	6.83	9.65	6.44	10.56	5.96	12.17	5.39	15.51	4.75	25.38	4.06	253.48	3.38	INF	2.72	INF
7.0	6.14	8.13	6.09	8.23	5.78	8.88	5.39	9.99	4.92	12.14	4.38	17.44	3.79	45.64	3.19	INF	2.60	INF
6.0	5.36	6.81	5.32	6.88	5.08	7.33	4.78	8.07	4.40	9.41	3.97	12.31	3.48	21.80	2.96	INF	2.45	INF
5.0	4.55	5.55	4.52	5.60	4.35	5.89	4.12	6.36	3.84	7.16	3.51	8.72	3.12	12.59	2.70	33.96	2.27	INF
4.5	4.13	4.94	4.11	4.98	3.96	5.21	3.78	5.57	3.54	6.17	3.25	7.30	2.92	9.83	2.55	19.28	2.16	INF
4.0	3.71	4.34	3.69	4.37	3.57	4.55	3.42	4.82	3.22	5.27	2.99	6.06	2.70	7.71	2.38	12.52	2.04	106.24
3.5	3.27	3.76	3.26	3.78	3.17	3.91	3.05	4.11	2.89	4.43	2.70	4.98	2.46	6.04	2.20	8.63	1.90	21.95
3.0	2.83	3.19	2.82	3.20	2.75	3.30	2.66	3.44	2.54	3.66	2.39	4.02	2.21	4.68	1.99	6.10	1.75	10.67
2.8	2.65	2.96	2.64	2.98	2.58	3.06	2.50	3.18	2.40	3.36	2.26	3.67	2.10	4.21	1.90	5.32	1.68	8.49
2.6	2.47	2.74	2.47	2.75	2.41	2.82	2.34	2.92	2.25	3.08	2.13	3.33	1.98	3.77	1.81	4.64	1.60	6.87
2.4	2.29	2.52	2.28	2.53	2.24	2.59	2.18	2.67	2.10	2.80	2.00	3.01	1.87	3.36	1.71	4.03	1.53	5.62
2.2	2.11	2.30	2.10	2.31	2.07	2.35	2.01	2.43	1.95	2.53	1.86	2.70	1.74	2.98	1.61	3.49	1.44	4.62
2.0	1.93	2.08	1.92	2.09	1.89	2.13	1.85	2.18	1.79	2.27	1.71	2.40	1.62	2.62	1.50	3.01	1.36	3.81
1.9	1.83	1.97	1.83	1.98	1.80	2.01	1.76	2.06	1.71	2.14	1.64	2.26	1.55	2.45	1.44	2.79	1.31	3.46
1.8	1.74	1.87	1.74	1.87	1.71	1.90	1.67	1.95	1.63	2.02	1.56	2.12	1.48	2.29	1.38	2.58	1.26	3.14
1.7	1.65	1.76	1.64	1.76	1.62	1.79	1.59	1.83	1.55	1.89	1.49	1.98	1.42	2.13	1.32	2.38	1.21	2.84
1.6	1.55	1.65	1.55	1.66	1.53	1.68	1.50	1.71	1.46	1.77	1.41	1.85	1.35	1.97	1.26	2.18	1.16	2.57
1.5	1.46	1.55	1.46	1.55	1.44	1.57	1.41	1.60	1.38	1.65	1.33	1.71	1.28	1.82	1.20	2.00	1.11	2.32
1.4	1.36	1.44	1.36	1.44	1.35	1.46	1.32	1.49	1.29	1.53	1.25	1.58	1.20	1.68	1.14	1.82	1.05	2.09
1.3	1.27	1.33	1.27	1.34	1.25	1.35	1.23	1.37	1.21	1.41	1.17	1.46	1.13	1.53	1.07	1.66	1.00	1.87
1.2	1.17	1.23	1.17	1.23	1.16	1.24	1.14	1.26	1.12	1.29	1.09	1.33	1.05	1.40	1.00	1.50	0.94	1.67
1.1	1.08	1.12	1.08	1.13	1.07	1.14	1.05	1.15	1.03	1.18	1.01	1.21	0.98	1.26	0.93	1.34	0.88	1.48
1.0	0.98	1.02	0.98	1.02	0.97	1.03	0.96	1.04	0.95	1.06	0.92	1.09	0.90	1.13	0.86	1.20	0.81	1.30
0.95	0.93	0.97	0.93	0.97	0.93	0.98	0.92	0.99	0.90	1.01	0.88	1.03	0.86	1.07	0.82	1.12	0.78	1.22
0.90	0.89	0.92	0.88	0.92	0.88	0.92	0.87	0.93	0.86	0.95	0.84	0.97	0.82	1.00	0.79	1.05	0.75	1.14
0.85	0.84	0.86	0.84	0.87	0.83	0.87	0.82	0.88	0.81	0.89	0.80	0.91	0.78	0.94	0.75	0.99	0.71	1.06
0.80	0.79	0.81	0.79	0.81	0.78	0.82	0.78	0.83	0.77	0.84	0.75	0.86	0.73	0.88	0.71	0.92	0.68	0.98
0.75	0.74	0.76	0.74	0.76	0.73	0.77	0.73	0.77	0.72	0.78	0.71	0.80	0.69	0.82	0.67	0.85	0.64	0.90

MA 60 – meter



ARRI/ZEISS Master Anamorphic MA 60/T1.9 depth of field tables in meter (circle of confusion: 0.025 mm)

Distance	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
meter	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
INF	61.63	INF	57.86	INF	42.35	INF	30.71	INF	22.11	INF	15.84	INF	11.31	INF	8.05	INF	5.72	INF
100	41.29	INF	39.56	INF	31.64	INF	24.66	INF	18.79	INF	14.06	INF	10.37	INF	7.56	INF	5.47	INF
50	29.23	172.76	28.36	211.28	24.04	INF	19.79	INF	15.83	INF	12.34	INF	9.40	INF	7.04	INF	5.19	INF
30	21.04	52.27	20.58	55.31	18.21	85.04	15.66	354.12	13.08	INF	10.60	INF	8.36	INF	6.44	INF	4.86	INF
20	15.58	27.92	15.33	28.77	13.98	35.15	12.43	51.23	10.74	145.01	9.01	INF	7.34	INF	5.82	INF	4.50	INF
15	12.37	19.05	12.21	19.44	11.34	22.16	10.30	27.61	9.11	42.36	7.84	173.31	6.55	INF	5.31	INF	4.19	INF
12	10.26	14.46	10.15	14.68	9.54	16.18	8.79	18.90	7.91	24.80	6.94	44.45	5.90	INF	4.88	INF	3.92	INF
10	8.76	11.65	8.68	11.79	8.23	12.74	7.67	14.37	6.99	17.54	6.22	25.49	5.38	71.16	4.51	INF	3.68	INF
8.0	7.19	9.02	7.13	9.11	6.83	9.66	6.44	10.56	5.96	12.18	5.39	15.55	4.74	25.52	4.06	275.13	3.37	INF
7.0	6.37	7.77	6.33	7.83	6.09	8.24	5.78	8.89	5.38	10.00	4.92	12.16	4.38	17.50	3.79	46.25	3.18	INF
6.0	5.53	6.55	5.50	6.60	5.32	6.88	5.08	7.33	4.77	8.07	4.40	9.42	3.96	12.34	3.48	21.93	2.96	INF
5.5	5.11	5.96	5.08	6.00	4.92	6.23	4.72	6.60	4.45	7.19	4.13	8.24	3.74	10.39	3.30	16.43	2.83	92.84
5.0	4.67	5.38	4.65	5.41	4.52	5.60	4.34	5.89	4.12	6.36	3.84	7.16	3.50	8.73	3.12	12.63	2.70	34.32
4.5	4.23	4.80	4.21	4.83	4.11	4.98	3.96	5.21	3.78	5.57	3.54	6.18	3.25	7.30	2.92	9.85	2.55	19.38
4.0	3.79	4.24	3.77	4.26	3.69	4.37	3.57	4.55	3.42	4.82	3.22	5.27	2.98	6.07	2.70	7.72	2.38	12.55
3.5	3.34	3.68	3.33	3.69	3.26	3.78	3.17	3.91	3.05	4.11	2.89	4.43	2.70	4.98	2.46	6.04	2.20	8.64
3.0	2.88	3.13	2.87	3.14	2.82	3.20	2.75	3.30	2.66	3.44	2.54	3.66	2.39	4.02	2.21	4.68	1.99	6.10
2.8	2.70	2.91	2.69	2.92	2.64	2.98	2.58	3.06	2.50	3.18	2.40	3.36	2.26	3.67	2.10	4.21	1.90	5.32
2.6	2.51	2.70	2.50	2.71	2.47	2.75	2.41	2.82	2.34	2.92	2.25	3.08	2.13	3.33	1.98	3.77	1.81	4.64
2.5	2.42	2.59	2.41	2.60	2.38	2.64	2.33	2.70	2.26	2.80	2.18	2.94	2.06	3.17	1.93	3.56	1.76	4.33
2.4	2.32	2.48	2.32	2.49	2.28	2.53	2.24	2.59	2.18	2.67	2.10	2.80	2.00	3.01	1.87	3.36	1.71	4.03
2.3	2.23	2.38	2.22	2.38	2.19	2.42	2.15	2.47	2.10	2.55	2.02	2.67	1.93	2.85	1.81	3.17	1.66	3.75
2.2	2.14	2.27	2.13	2.27	2.10	2.31	2.07	2.35	2.01	2.42	1.95	2.53	1.86	2.70	1.74	2.98	1.61	3.49
2.1	2.04	2.16	2.04	2.17	2.01	2.20	1.98	2.24	1.93	2.30	1.87	2.40	1.79	2.55	1.68	2.80	1.55	3.25
2.0	1.95	2.06	1.94	2.06	1.92	2.09	1.89	2.13	1.85	2.18	1.79	2.27	1.71	2.40	1.62	2.62	1.50	3.01
1.9	1.85	1.95	1.85	1.96	1.83	1.98	1.80	2.01	1.76	2.06	1.71	2.14	1.64	2.26	1.55	2.45	1.44	2.79
1.8	1.76	1.85	1.75	1.85	1.74	1.87	1.71	1.90	1.67	1.95	1.63	2.01	1.57	2.12	1.48	2.29	1.38	2.58
1.7	1.66	1.74	1.66	1.74	1.64	1.76	1.62	1.79	1.59	1.83	1.55	1.89	1.49	1.98	1.42	2.13	1.32	2.37
1.6	1.57	1.64	1.56	1.64	1.55	1.66	1.53	1.68	1.50	1.71	1.46	1.77	1.41	1.85	1.35	1.97	1.26	2.18
1.5	1.47	1.53	1.47	1.53	1.46	1.55	1.44	1.57	1.41	1.60	1.38	1.65	1.33	1.71	1.28	1.82	1.20	2.00
1.4	1.37	1.43	1.37	1.43	1.36	1.44	1.35	1.46	1.32	1.49	1.29	1.53	1.26	1.58	1.20	1.67	1.14	1.82
1.3	1.28	1.32	1.28	1.33	1.27	1.34	1.25	1.35	1.23	1.37	1.21	1.41	1.17	1.46	1.13	1.53	1.07	1.66
1.2	1.18	1.22	1.18	1.22	1.17	1.23	1.16	1.24	1.14	1.26	1.12	1.29	1.09	1.33	1.05	1.39	1.00	1.50
1.1	1.08	1.12	1.08	1.12	1.08	1.13	1.07	1.14	1.05	1.15	1.03	1.18	1.01	1.21	0.98	1.26	0.93	1.34
1.0	0.99	1.01	0.99	1.02	0.98	1.02	0.97	1.03	0.96	1.04	0.95	1.06	0.93	1.09	0.90	1.13	0.86	1.19
0.95	0.94	0.96	0.94	0.96	0.93	0.97	0.93	0.98	0.92	0.99	0.90	1.01	0.88	1.03	0.86	1.07	0.82	1.12
0.90	0.89	0.91	0.89	0.91	0.88	0.92	0.88	0.92	0.87	0.93	0.86	0.95	0.84	0.97	0.82	1.00	0.79	1.05

MA 75 – meter



ARRI/ZEISS Master Anamorphic MA 75/T1.9 depth of field tables in meter (circle of confusion: 0.025 mm)

Distance	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
meter	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
INF	88.01	INF	82.83	INF	61.56	INF	45.16	INF	32.80	INF	23.65	INF	16.96	INF	12.11	INF	8.62	INF
100	51.66	INF	49.84	INF	41.26	INF	33.19	INF	25.99	INF	19.90	INF	14.94	INF	11.05	INF	8.07	INF
50	34.07	93.90	33.27	100.59	29.22	173.17	24.93	INF	20.64	INF	16.60	INF	13.00	INF	9.95	INF	7.47	INF
30	23.43	41.68	23.05	42.95	21.03	52.30	18.72	75.55	16.19	203.61	13.60	INF	11.09	INF	8.79	INF	6.80	INF
20	16.86	24.59	16.66	25.02	15.58	27.93	14.27	33.41	12.76	46.27	11.09	101.46	9.37	INF	7.68	INF	6.12	INF
15	13.16	17.44	13.04	17.65	12.37	19.05	11.53	21.45	10.52	26.10	9.37	37.63	8.11	100.35	6.81	INF	5.55	INF
12	10.80	13.51	10.71	13.64	10.26	14.46	9.68	15.80	8.96	18.18	8.11	23.10	7.15	37.45	6.12	308.04	5.09	INF
10	9.15	11.03	9.09	11.11	8.76	11.65	8.33	12.50	7.80	13.94	7.14	16.67	6.39	23.02	5.56	49.97	4.69	INF
9.0	8.31	9.82	8.26	9.89	7.99	10.31	7.63	10.97	7.18	12.07	6.62	14.06	5.97	18.32	5.24	32.06	4.46	INF
8.0	7.45	8.64	7.41	8.69	7.19	9.02	6.90	9.52	6.53	10.33	6.06	11.75	5.51	14.59	4.88	22.14	4.20	82.67
7.0	6.57	7.49	6.54	7.53	6.37	7.77	6.14	8.14	5.85	8.72	5.47	9.71	5.02	11.56	4.49	15.84	3.91	33.22
6.0	5.69	6.35	5.66	6.38	5.53	6.55	5.36	6.81	5.13	7.22	4.84	7.88	4.49	9.06	4.06	11.48	3.58	18.48
5.5	5.23	5.79	5.22	5.82	5.11	5.96	4.96	6.18	4.76	6.51	4.51	7.04	4.20	7.96	3.83	9.77	3.40	14.41
5.0	4.78	5.24	4.76	5.26	4.67	5.38	4.55	5.55	4.39	5.82	4.17	6.24	3.90	6.95	3.58	8.29	3.20	11.40
4.5	4.32	4.70	4.31	4.71	4.23	4.80	4.13	4.94	4.00	5.15	3.82	5.48	3.59	6.02	3.32	6.99	2.99	9.08
4.0	3.86	4.15	3.85	4.17	3.79	4.24	3.71	4.34	3.60	4.50	3.45	4.75	3.27	5.15	3.04	5.85	2.76	7.24
3.8	3.67	3.94	3.66	3.95	3.61	4.01	3.54	4.11	3.44	4.25	3.30	4.47	3.14	4.82	2.92	5.43	2.67	6.60
3.6	3.49	3.72	3.48	3.73	3.43	3.79	3.36	3.88	3.27	4.00	3.15	4.20	3.00	4.51	2.80	5.03	2.57	6.02
3.4	3.30	3.51	3.29	3.52	3.25	3.57	3.19	3.64	3.11	3.76	3.00	3.93	2.86	4.20	2.68	4.65	2.47	5.48
3.2	3.11	3.30	3.10	3.30	3.06	3.35	3.01	3.42	2.94	3.51	2.84	3.66	2.72	3.89	2.56	4.28	2.36	4.97
3.0	2.92	3.08	2.91	3.09	2.88	3.13	2.83	3.19	2.77	3.27	2.68	3.40	2.57	3.60	2.43	3.93	2.25	4.50
2.8	2.73	2.87	2.73	2.88	2.70	2.91	2.65	2.96	2.60	3.04	2.52	3.15	2.42	3.32	2.30	3.59	2.14	4.06
2.6	2.54	2.66	2.54	2.67	2.51	2.70	2.47	2.74	2.43	2.80	2.36	2.90	2.27	3.04	2.16	3.26	2.02	3.65
2.5	2.44	2.56	2.44	2.56	2.42	2.59	2.38	2.63	2.34	2.69	2.28	2.77	2.20	2.90	2.09	3.11	1.96	3.46
2.4	2.35	2.45	2.35	2.46	2.32	2.48	2.29	2.52	2.25	2.57	2.19	2.65	2.12	2.77	2.02	2.95	1.90	3.27
2.3	2.25	2.35	2.25	2.35	2.23	2.38	2.20	2.41	2.16	2.46	2.11	2.53	2.04	2.63	1.95	2.80	1.84	3.08
2.2	2.16	2.25	2.15	2.25	2.14	2.27	2.11	2.30	2.07	2.34	2.03	2.41	1.96	2.50	1.88	2.66	1.77	2.90
2.1	2.06	2.14	2.06	2.14	2.04	2.16	2.02	2.19	1.99	2.23	1.94	2.29	1.88	2.37	1.81	2.51	1.71	2.73
2.0	1.97	2.04	1.96	2.04	1.95	2.06	1.93	2.08	1.90	2.12	1.86	2.17	1.80	2.25	1.73	2.37	1.64	2.56
1.9	1.87	1.93	1.87	1.94	1.85	1.95	1.83	1.97	1.81	2.00	1.77	2.05	1.72	2.12	1.66	2.23	1.57	2.40
1.8	1.77	1.83	1.77	1.83	1.76	1.85	1.74	1.87	1.72	1.89	1.68	1.93	1.64	2.00	1.58	2.09	1.50	2.24
1.7	1.68	1.73	1.67	1.73	1.66	1.74	1.65	1.76	1.63	1.78	1.60	1.82	1.56	1.87	1.50	1.96	1.43	2.09
1.6	1.58	1.62	1.58	1.63	1.57	1.64	1.55	1.65	1.53	1.67	1.51	1.71	1.47	1.75	1.43	1.82	1.36	1.94
1.5	1.48	1.52	1.48	1.52	1.47	1.53	1.46	1.54	1.44	1.56	1.42	1.59	1.39	1.63	1.35	1.70	1.29	1.79
1.4	1.38	1.42	1.38	1.42	1.37	1.43	1.36	1.44	1.35	1.46	1.33	1.48	1.30	1.51	1.27	1.57	1.22	1.65
1.3	1.29	1.32	1.28	1.32	1.28	1.32	1.27	1.33	1.26	1.35	1.24	1.37	1.22	1.40	1.18	1.44	1.14	1.51
1.2	1.19	1.21	1.19	1.21	1.18	1.22	1.17	1.23	1.16	1.24	1.15	1.26	1.13	1.28	1.10	1.32	1.06	1.38
1.1	1.09	1.11	1.09	1.11	1.08	1.12	1.08	1.12	1.07	1.13	1.06	1.15	1.04	1.17	1.02	1.20	0.99	1.25
1.0	0.99	1.01	0.99	1.01	0.99	1.01	0.98	1.02	0.97	1.03	0.96	1.04	0.95	1.06	0.93	1.08	0.91	1.12
0.95	0.94	0.96	0.94	0.96	0.94	0.96	0.93	0.97	0.93	0.97	0.92	0.99	0.91	1.00	0.89	1.02	0.86	1.06
0.90	0.89	0.91	0.89	0.91	0.89	0.91	0.89	0.92	0.88	0.92	0.87	0.93	0.86	0.94	0.84	0.96	0.82	0.99

MA 100 – meter

ARRI/ZEISS Master Anamorphic MA 100/T1.9 depth of field tables in meter (circle of confusion: 0.025 mm)



Distance	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
meter	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
INF	132.93	INF	126.09	INF	96.27	INF	72.14	INF	53.26	INF	38.88	INF	28.13	INF	20.22	INF	14.47	INF
100	64.44	223.15	62.79	245.46	54.41	617.51	45.76	INF	37.37	INF	29.67	INF	22.98	INF	17.42	INF	12.98	INF
50	39.20	69.03	38.58	71.02	35.25	86.00	31.41	122.55	27.22	307.16	22.89	INF	18.70	INF	14.85	INF	11.50	INF
30	25.75	35.94	25.48	36.47	23.98	40.04	22.15	46.49	19.98	60.20	17.55	103.26	14.98	INF	12.40	INF	9.98	INF
20	18.02	22.47	17.89	22.68	17.14	24.01	16.18	26.18	14.99	30.03	13.59	37.89	11.99	60.20	10.29	359.45	8.56	INF
15	13.86	16.35	13.78	16.45	13.33	17.14	12.75	18.22	12.00	20.00	11.08	23.20	10.00	30.00	8.79	51.21	7.50	INF
12	11.26	12.84	11.21	12.91	10.91	13.33	10.52	13.97	10.00	14.99	9.36	16.72	8.58	19.98	7.67	27.57	6.67	59.59
10	9.48	10.58	9.45	10.62	9.23	10.91	8.95	11.33	8.58	11.99	8.10	13.07	7.51	14.98	6.80	18.86	6.01	29.80
8.0	7.67	8.37	7.64	8.39	7.50	8.57	7.31	8.83	7.06	9.22	6.74	9.85	6.32	10.89	5.82	12.80	5.23	17.03
7.0	6.74	7.28	6.73	7.30	6.62	7.43	6.47	7.62	6.27	7.92	6.02	8.37	5.68	9.11	5.27	10.41	4.78	13.04
6.0	5.81	6.20	5.80	6.22	5.72	6.31	5.61	6.45	5.46	6.66	5.26	6.98	5.01	7.48	4.69	8.33	4.30	9.93
5.5	5.34	5.67	5.33	5.68	5.26	5.76	5.17	5.88	5.04	6.05	4.88	6.31	4.66	6.72	4.38	7.40	4.04	8.63
5.0	4.87	5.14	4.86	5.15	4.80	5.21	4.73	5.31	4.62	5.45	4.48	5.66	4.29	5.98	4.06	6.52	3.76	7.45
4.5	4.39	4.61	4.39	4.62	4.34	4.67	4.28	4.75	4.19	4.86	4.08	5.03	3.92	5.28	3.72	5.69	3.47	6.39
4.0	3.92	4.09	3.91	4.10	3.87	4.14	3.82	4.19	3.75	4.28	3.66	4.41	3.54	4.60	3.38	4.91	3.17	5.42
3.8	3.72	3.88	3.72	3.89	3.69	3.92	3.64	3.97	3.58	4.05	3.49	4.17	3.38	4.34	3.23	4.61	3.04	5.06
3.6	3.53	3.67	3.53	3.68	3.50	3.71	3.46	3.76	3.40	3.83	3.32	3.93	3.22	4.08	3.09	4.32	2.92	4.71
3.4	3.34	3.46	3.34	3.47	3.31	3.50	3.27	3.54	3.22	3.60	3.15	3.69	3.06	3.82	2.94	4.03	2.78	4.37
3.2	3.15	3.26	3.14	3.26	3.12	3.29	3.09	3.32	3.04	3.38	2.98	3.45	2.90	3.57	2.79	3.75	2.65	4.04
3.0	2.95	3.05	2.95	3.05	2.93	3.08	2.90	3.11	2.86	3.15	2.81	3.22	2.73	3.32	2.64	3.48	2.51	3.73
2.8	2.76	2.84	2.76	2.85	2.74	2.87	2.71	2.89	2.68	2.93	2.63	2.99	2.57	3.08	2.48	3.21	2.37	3.42
2.6	2.57	2.64	2.56	2.64	2.55	2.66	2.53	2.68	2.50	2.71	2.45	2.76	2.40	2.84	2.32	2.95	2.23	3.12
2.5	2.47	2.53	2.47	2.54	2.45	2.55	2.43	2.57	2.40	2.61	2.37	2.65	2.31	2.72	2.24	2.82	2.15	2.98
2.4	2.37	2.43	2.37	2.43	2.36	2.45	2.34	2.47	2.31	2.50	2.28	2.54	2.23	2.60	2.16	2.69	2.08	2.84
2.3	2.27	2.33	2.27	2.33	2.26	2.34	2.24	2.36	2.22	2.39	2.19	2.43	2.14	2.48	2.08	2.57	2.00	2.70
2.2	2.18	2.23	2.17	2.23	2.16	2.24	2.15	2.26	2.13	2.28	2.10	2.32	2.06	2.37	2.00	2.44	1.93	2.56
2.1	2.08	2.12	2.08	2.13	2.07	2.14	2.05	2.15	2.03	2.17	2.01	2.21	1.97	2.25	1.92	2.32	1.85	2.43
2.0	1.98	2.02	1.98	2.02	1.97	2.03	1.96	2.05	1.94	2.07	1.91	2.09	1.88	2.14	1.84	2.20	1.77	2.29
1.9	1.88	1.92	1.88	1.92	1.87	1.93	1.86	1.94	1.84	1.96	1.82	1.99	1.79	2.02	1.75	2.08	1.70	2.16
1.8	1.78	1.82	1.78	1.82	1.78	1.83	1.76	1.84	1.75	1.85	1.73	1.88	1.70	1.91	1.67	1.96	1.62	2.03
1.7	1.69	1.72	1.68	1.72	1.68	1.72	1.67	1.73	1.66	1.75	1.64	1.77	1.61	1.80	1.58	1.84	1.54	1.91
1.6	1.59	1.61	1.59	1.61	1.58	1.62	1.57	1.63	1.56	1.64	1.55	1.66	1.52	1.69	1.49	1.72	1.45	1.78
1.5	1.49	1.51	1.49	1.51	1.48	1.52	1.48	1.53	1.47	1.54	1.45	1.55	1.43	1.57	1.41	1.61	1.37	1.66
1.4	1.39	1.41	1.39	1.41	1.39	1.42	1.38	1.42	1.37	1.43	1.36	1.45	1.34	1.46	1.32	1.49	1.29	1.53
1.3	1.29	1.31	1.29	1.31	1.29	1.31	1.28	1.32	1.27	1.33	1.26	1.34	1.25	1.36	1.23	1.38	1.20	1.41
1.2	1.19	1.21	1.19	1.21	1.19	1.21	1.19	1.22	1.18	1.22	1.17	1.23	1.16	1.25	1.14	1.27	1.12	1.30
1.1	1.09	1.11	1.09	1.11	1.09	1.11	1.09	1.11	1.08	1.12	1.08	1.13	1.06	1.14	1.05	1.16	1.03	1.18
1.0	1.00	1.01	1.00	1.01	0.99	1.01	0.99	1.01	0.99	1.02	0.98	1.02	0.97	1.03	0.96	1.05	0.94	1.06
0.95	0.95	0.95	0.95	0.96	0.94	0.96	0.94	0.96	0.94	0.96	0.93	0.97	0.92	0.98	0.91	0.99	0.90	1.01

MA 35 – feet



ARRI/ZEISS Master Anamorphic MA 35/T1.9 depth-of-field table in feet (circle of confusion: 0.025 mm)

Engraving	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
feet	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
300'	55' 11"	INF	52' 8"	INF	39' 3"	INF	28' 11"	INF	21' 0"	INF	15' 2"	INF	10' 11"	INF	7' 9"	INF	5' 7"	INF
150'	47' 2"	INF	44' 10"	INF	34' 9"	INF	26' 4"	INF	19' 8"	INF	14' 5"	INF	10' 6"	INF	7' 7"	INF	5' 5"	INF
100'	40' 9"	INF	39' 0"	INF	31' 2"	INF	24' 3"	INF	18' 5"	INF	13' 9"	INF	10' 2"	INF	7' 5"	INF	5' 4"	INF
70'	34' 8"	INF	33' 5"	INF	27' 6"	INF	21' 12"	INF	17' 1"	INF	13' 0"	INF	9' 9"	INF	7' 2"	INF	5' 3"	INF
50'	28' 12"	182' 6"	28' 1"	228' 2"	23' 9"	INF	19' 6"	INF	15' 7"	INF	12' 2"	INF	9' 3"	INF	6' 11"	INF	5' 1"	INF
40'	25' 4"	95' 4"	24' 8"	106' 6"	21' 3"	341' 8"	17' 9"	INF	14' 6"	INF	11' 5"	INF	8' 10"	INF	6' 8"	INF	4' 12"	INF
30'	20' 11"	53' 1"	20' 5"	56' 4"	18' 1"	88' 8"	15' 6"	465' 8"	12' 11"	INF	10' 5"	INF	8' 3"	INF	6' 4"	INF	4' 9"	INF
25'	18' 4"	39' 2"	17' 12"	40' 11"	16' 1"	55' 8"	14' 1"	113' 2"	11' 11"	INF	9' 9"	INF	7' 10"	INF	6' 1"	INF	4' 7"	INF
22'	16' 8"	32' 3"	16' 5"	33' 6"	14' 10"	42' 8"	13' 1"	69' 10"	11' 2"	707' 11"	9' 3"	INF	7' 6"	INF	5' 11"	INF	4' 6"	INF
20'	15' 6"	28' 2"	15' 3"	29' 0"	13' 11"	35' 9"	12' 4"	52' 12"	10' 8"	167' 2"	8' 11"	INF	7' 3"	INF	5' 9"	INF	4' 5"	INF
18'	14' 3"	24' 4"	14' 1"	24' 12"	12' 11"	29' 10"	11' 6"	40' 11"	10' 1"	86' 6"	8' 6"	INF	6' 12"	INF	5' 7"	INF	4' 4"	INF
16'	12' 12"	20' 10"	12' 10"	21' 4"	11' 10"	24' 8"	10' 8"	31' 10"	9' 5"	53' 11"	8' 0"	INF	6' 8"	INF	5' 4"	INF	4' 2"	INF
14'	11' 8"	17' 7"	11' 6"	17' 11"	10' 9"	20' 3"	9' 9"	24' 9"	8' 8"	36' 4"	7' 6"	107' 2"	6' 3"	INF	5' 1"	INF	4' 1"	INF
13'	10' 11"	16' 0"	10' 10"	16' 3"	10' 1"	18' 2"	9' 3"	21' 9"	8' 3"	30' 3"	7' 2"	67' 3"	6' 1"	INF	4' 12"	INF	3' 12"	INF
12'	10' 3"	14' 6"	10' 1"	14' 9"	9' 6"	16' 3"	8' 9"	19' 1"	7' 10"	25' 4"	6' 11"	46' 11"	5' 10"	INF	4' 10"	INF	3' 10"	INF
11'	9' 6"	13' 1"	9' 5"	13' 3"	8' 10"	14' 6"	8' 2"	16' 8"	7' 5"	21' 3"	6' 7"	34' 6"	5' 7"	304' 2"	4' 8"	INF	3' 9"	INF
10'	8' 9"	11' 8"	8' 8"	11' 10"	8' 2"	12' 10"	7' 8"	14' 6"	6' 11"	17' 9"	6' 2"	26' 3"	5' 4"	80' 2"	4' 6"	INF	3' 8"	INF
9' 6"	8' 4"	11' 0"	8' 3"	11' 2"	7' 10"	11' 12"	7' 4"	13' 5"	6' 9"	16' 3"	5' 12"	23' 0"	5' 2"	56' 3"	4' 4"	INF	3' 7"	INF
9'	7' 12"	10' 4"	7' 11"	10' 5"	7' 6"	11' 2"	7' 0"	12' 6"	6' 6"	14' 10"	5' 9"	20' 3"	5' 0"	42' 2"	4' 3"	INF	3' 6"	INF
8' 6"	7' 7"	9' 8"	7' 6"	9' 9"	7' 2"	10' 5"	6' 9"	11' 6"	6' 2"	13' 6"	5' 7"	17' 11"	4' 11"	33' 0"	4' 2"	INF	3' 5"	INF
8'	7' 2"	9' 0"	7' 1"	9' 2"	6' 10"	9' 8"	6' 5"	10' 7"	5' 11"	12' 3"	5' 4"	15' 10"	4' 9"	26' 6"	4' 0"	635' 2"	3' 4"	INF
7' 6"	6' 9"	8' 5"	6' 9"	8' 6"	6' 5"	8' 12"	6' 1"	9' 9"	5' 8"	11' 2"	5' 2"	13' 11"	4' 6"	21' 8"	3' 11"	99' 9"	3' 3"	INF
7'	6' 4"	7' 9"	6' 4"	7' 10"	6' 1"	8' 3"	5' 9"	8' 11"	5' 4"	10' 1"	4' 11"	12' 4"	4' 4"	17' 11"	3' 9"	50' 9"	3' 2"	INF
6' 6"	5' 11"	7' 2"	5' 11"	7' 3"	5' 8"	7' 7"	5' 5"	8' 1"	5' 1"	9' 1"	4' 8"	10' 10"	4' 2"	14' 11"	3' 7"	32' 5"	3' 1"	INF
6' 3"	5' 9"	6' 10"	5' 8"	6' 11"	5' 6"	7' 3"	5' 3"	7' 9"	4' 11"	8' 7"	4' 6"	10' 2"	4' 1"	13' 8"	3' 6"	26' 12"	2' 12"	INF
6'	5' 6"	6' 7"	5' 6"	6' 7"	5' 4"	6' 11"	5' 1"	7' 4"	4' 9"	8' 1"	4' 5"	9' 6"	3' 11"	12' 6"	3' 5"	22' 10"	2' 11"	INF
5' 9"	5' 4"	6' 3"	5' 3"	6' 4"	5' 1"	6' 7"	4' 11"	6' 12"	4' 7"	7' 8"	4' 3"	8' 11"	3' 10"	11' 6"	3' 4"	19' 6"	2' 11"	INF
5' 6"	5' 1"	5' 12"	5' 1"	6' 0"	4' 11"	6' 3"	4' 8"	6' 7"	4' 5"	7' 3"	4' 1"	8' 4"	3' 9"	10' 6"	3' 3"	16' 11"	2' 10"	118' 9"
5' 3"	4' 11"	5' 8"	4' 10"	5' 9"	4' 9"	5' 11"	4' 6"	6' 3"	4' 3"	6' 10"	3' 12"	7' 9"	3' 7"	9' 8"	3' 2"	14' 8"	2' 9"	57' 11"
5'	4' 8"	5' 5"	4' 8"	5' 5"	4' 6"	5' 7"	4' 4"	5' 11"	4' 1"	6' 5"	3' 10"	7' 2"	3' 6"	8' 10"	3' 1"	12' 11"	2' 8"	37' 1"
4' 9"	4' 5"	5' 1"	4' 5"	5' 1"	4' 4"	5' 4"	4' 2"	5' 7"	3' 11"	5' 12"	3' 8"	6' 8"	3' 4"	8' 1"	3' 0"	11' 4"	2' 7"	26' 6"
4' 6"	4' 3"	4' 10"	4' 3"	4' 10"	4' 1"	4' 12"	3' 11"	5' 3"	3' 9"	5' 7"	3' 6"	6' 2"	3' 3"	7' 4"	2' 11"	9' 12"	2' 6"	20' 2"
4' 3"	4' 0"	4' 6"	3' 12"	4' 7"	3' 11"	4' 8"	3' 9"	4' 11"	3' 7"	5' 2"	3' 5"	5' 9"	3' 1"	6' 8"	2' 10"	8' 10"	2' 5"	15' 11"
4'	3' 9"	4' 3"	3' 9"	4' 3"	3' 8"	4' 5"	3' 7"	4' 7"	3' 5"	4' 10"	3' 3"	5' 3"	2' 12"	6' 1"	2' 8"	7' 9"	2' 4"	12' 10"
3' 9"	3' 7"	3' 12"	3' 7"	3' 12"	3' 6"	4' 1"	3' 4"	4' 3"	3' 3"	4' 6"	3' 1"	4' 10"	2' 10"	5' 6"	2' 7"	6' 11"	2' 3"	10' 6"
3' 6"	3' 4"	3' 8"	3' 4"	3' 8"	3' 3"	3' 9"	3' 2"	3' 11"	3' 1"	4' 1"	2' 11"	4' 5"	2' 8"	4' 12"	2' 5"	6' 1"	2' 2"	8' 9"
3' 3"	3' 1"	3' 5"	3' 1"	3' 5"	3' 0"	3' 6"	2' 12"	3' 7"	2' 10"	3' 9"	2' 9"	4' 1"	2' 7"	4' 6"	2' 4"	5' 4"	2' 1"	7' 4"
3'	2' 11"	3' 2"	2' 10"	3' 2"	2' 10"	3' 2"	2' 9"	3' 4"	2' 8"	3' 5"	2' 6"	3' 8"	2' 5"	4' 0"	2' 2"	4' 8"	1' 12"	6' 2"
2' 9"	2' 8"	2' 10"	2' 8"	2' 10"	2' 7"	2' 11"	2' 6"	2' 12"	2' 6"	3' 1"	2' 4"	3' 4"	2' 3"	3' 7"	2' 1"	4' 1"	1' 11"	5' 2"
2' 6"	2' 5"	2' 7"	2' 5"	2' 7"	2' 5"	2' 8"	2' 4"	2' 8"	2' 3"	2' 10"	2' 2"	2' 11"	2' 1"	3' 2"	1' 11"	3' 7"	1' 9"	4' 4"

MA 40 – feet



ARRI/ZEISS Master Anamorphic MA 40/T1.9 depth-of-field table in feet (circle of confusion: 0.025 mm)

Engraving	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
feet	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
300'	68' 10"	INF	65' 2"	INF	49' 2"	INF	36' 6"	INF	26' 9"	INF	19' 5"	INF	14' 0"	INF	10' 1"	INF	7' 2"	INF
150'	56' 0"	INF	53' 6"	INF	42' 3"	INF	32' 7"	INF	24' 7"	INF	18' 3"	INF	13' 5"	INF	9' 9"	INF	7' 0"	INF
100'	47' 2"	INF	45' 5"	INF	37' 1"	INF	29' 5"	INF	22' 9"	INF	17' 3"	INF	12' 10"	INF	9' 5"	INF	6' 10"	INF
70'	39' 3"	321' 10'	10' 38'	437' 11'	437' 11'	INF	26' 1"	INF	20' 9"	INF	16' 1"	INF	12' 2"	INF	9' 1"	INF	6' 8"	INF
50'	32' 1"	113' 3"	31' 3"	124' 11"	27' 1"	329' 1'	22' 9"	INF	18' 7"	INF	14' 9"	INF	11' 5"	INF	8' 8"	INF	6' 5"	INF
40'	27' 8"	72' 3"	27' 0"	76' 10"	23' 10"	124' 3"	20' 5"	INF	16' 12"	INF	13' 9"	INF	10' 9"	INF	8' 3"	INF	6' 3"	INF
30'	22' 6"	45' 1"	22' 1"	46' 10"	19' 11"	60' 12"	17' 6"	106' 6"	14' 11"	INF	12' 4"	INF	9' 11"	INF	7' 9"	INF	5' 11"	INF
25'	19' 7"	34' 8"	19' 3"	35' 8"	17' 7"	43' 4"	15' 8"	62' 2"	13' 7"	162' 2"	11' 5"	INF	9' 3"	INF	7' 4"	INF	5' 8"	INF
20'	16' 4"	25' 9"	16' 2"	26' 3"	14' 11"	30' 2"	13' 6"	38' 4"	11' 11"	61' 8"	10' 3"	451' 2"	8' 6"	INF	6' 10"	INF	5' 5"	INF
18'	14' 12"	22' 6"	14' 10"	22' 11"	13' 10"	25' 10"	12' 7"	31' 7"	11' 2"	45' 11"	9' 8"	128' 1"	8' 2"	INF	6' 7"	INF	5' 3"	INF
16'	13' 7"	19' 5"	13' 5"	19' 9"	12' 7"	21' 11"	11' 7"	25' 11"	10' 5"	34' 9"	9' 1"	67' 7"	7' 8"	INF	6' 4"	INF	5' 1"	INF
14'	12' 1"	16' 7"	11' 12"	16' 10"	11' 4"	18' 4"	10' 6"	21' 0"	9' 6"	26' 6"	8' 5"	42' 1"	7' 2"	247' 3"	5' 12"	INF	4' 10"	INF
13'	11' 4"	15' 2"	11' 3"	15' 5"	10' 8"	16' 8"	9' 11"	18' 10"	9' 1"	23' 1"	8' 0"	34' 1"	6' 11"	104' 4"	5' 10"	INF	4' 9"	INF
12'	10' 7"	13' 10"	10' 6"	13' 12"	9' 12"	15' 0"	9' 4"	16' 10"	8' 7"	20' 1"	7' 8"	27' 12"	6' 8"	62' 3"	5' 7"	INF	4' 7"	INF
11'	9' 10"	12' 6"	9' 9"	12' 8"	9' 3"	13' 6"	8' 9"	14' 11"	8' 0"	17' 5"	7' 3"	23' 1"	6' 4"	42' 2"	5' 5"	INF	4' 5"	INF
10'	9' 0"	11' 3"	8' 11"	11' 4"	8' 7"	12' 0"	8' 1"	13' 1"	7' 6"	15' 1"	6' 9"	19' 0"	5' 12"	30' 5"	5' 2"	197' 6"	4' 3"	INF
9' 6"	8' 7"	10' 7"	8' 6"	10' 8"	8' 2"	11' 4"	7' 9"	12' 3"	7' 2"	13' 11"	6' 7"	17' 4"	5' 10"	26' 2"	4' 12"	96' 3"	4' 2"	INF
9'	8' 2"	9' 12"	8' 2"	10' 1"	7' 10"	10' 7"	7' 5"	11' 5"	6' 11"	12' 11"	6' 4"	15' 8"	5' 7"	22' 8"	4' 10"	61' 3"	4' 1"	INF
8' 6"	7' 9"	9' 5"	7' 9"	9' 5"	7' 5"	9' 11"	7' 1"	10' 8"	6' 7"	11' 11"	6' 1"	14' 3"	5' 5"	19' 9"	4' 9"	43' 7"	3' 12"	INF
8'	7' 4"	8' 9"	7' 4"	8' 10"	7' 1"	9' 3"	6' 9"	9' 10"	6' 4"	10' 11"	5' 10"	12' 10"	5' 3"	17' 3"	4' 7"	32' 11"	3' 10"	INF
7' 6"	6' 11"	8' 2"	6' 11"	8' 3"	6' 8"	8' 7"	6' 4"	9' 1"	5' 12"	10' 0"	5' 6"	11' 7"	4' 12"	15' 0"	4' 5"	25' 9"	3' 9"	INF
7'	6' 6"	7' 7"	6' 6"	7' 8"	6' 3"	7' 11"	6' 0"	8' 5"	5' 8"	9' 2"	5' 3"	10' 5"	4' 9"	13' 2"	4' 3"	20' 8"	3' 7"	106' 10"
6' 6"	6' 1"	6' 12"	6' 0"	7' 0"	5' 10"	7' 3"	5' 8"	7' 8"	5' 4"	8' 4"	4' 12"	9' 4"	4' 6"	11' 6"	4' 0"	16' 9"	3' 6"	48' 8"
6'	5' 8"	6' 5"	5' 7"	6' 5"	5' 5"	6' 8"	5' 3"	6' 12"	5' 0"	7' 6"	4' 8"	8' 4"	4' 3"	9' 12"	3' 10"	13' 9"	3' 4"	29' 9"
5' 9"	5' 5"	6' 2"	5' 5"	6' 2"	5' 3"	6' 4"	5' 1"	6' 8"	4' 10"	7' 1"	4' 6"	7' 11"	4' 2"	9' 4"	3' 9"	12' 6"	3' 3"	24' 5"
5' 6"	5' 2"	5' 10"	5' 2"	5' 11"	5' 0"	6' 1"	4' 10"	6' 4"	4' 8"	6' 9"	4' 4"	7' 5"	4' 0"	8' 8"	3' 8"	11' 5"	3' 2"	20' 5"
5' 3"	4' 12"	5' 7"	4' 11"	5' 7"	4' 10"	5' 9"	4' 8"	5' 12"	4' 6"	6' 4"	4' 3"	6' 12"	3' 11"	8' 1"	3' 6"	10' 4"	3' 1"	17' 4"
5'	4' 9"	5' 3"	4' 9"	5' 4"	4' 7"	5' 5"	4' 6"	5' 8"	4' 3"	5' 12"	4' 1"	6' 6"	3' 9"	7' 6"	3' 5"	9' 5"	3' 0"	14' 10"
4' 9"	4' 6"	5' 0"	4' 6"	5' 0"	4' 5"	5' 2"	4' 3"	5' 4"	4' 1"	5' 8"	3' 11"	6' 1"	3' 7"	6' 11"	3' 3"	8' 7"	2' 11"	12' 9"
4' 6"	4' 3"	4' 9"	4' 3"	4' 9"	4' 2"	4' 10"	4' 1"	5' 0"	3' 11"	5' 3"	3' 9"	5' 8"	3' 6"	6' 5"	3' 2"	7' 9"	2' 10"	11' 1"
4' 3"	4' 1"	4' 5"	4' 1"	4' 6"	3' 12"	4' 7"	3' 10"	4' 9"	3' 9"	4' 11"	3' 7"	5' 4"	3' 4"	5' 11"	3' 1"	7' 0"	2' 9"	9' 8"
4'	3' 10"	4' 2"	3' 10"	4' 2"	3' 9"	4' 3"	3' 8"	4' 5"	3' 6"	4' 7"	3' 4"	4' 11"	3' 2"	5' 5"	2' 11"	6' 4"	2' 7"	8' 5"
3' 9"	3' 7"	3' 11"	3' 7"	3' 11"	3' 6"	3' 12"	3' 5"	4' 1"	3' 4"	4' 3"	3' 2"	4' 6"	3' 0"	4' 12"	2' 9"	5' 9"	2' 6"	7' 5"
3' 6"	3' 4"	3' 8"	3' 4"	3' 8"	3' 4"	3' 9"	3' 3"	3' 10"	3' 2"	3' 11"	3' 0"	4' 2"	2' 10"	4' 6"	2' 8"	5' 2"	2' 5"	6' 6"
3' 3"	3' 2"	3' 4"	3' 2"	3' 5"	3' 1"	3' 5"	3' 0"	3' 6"	2' 11"	3' 8"	2' 10"	3' 10"	2' 8"	4' 2"	2' 6"	4' 8"	2' 3"	5' 8"
3'	2' 11"	3' 1"	2' 11"	3' 1"	2' 10"	3' 2"	2' 10"	3' 3"	2' 9"	3' 4"	2' 8"	3' 6"	2' 6"	3' 9"	2' 4"	4' 2"	2' 2"	4' 11"
2' 9"	2' 8"	2' 10"	2' 8"	2' 10"	2' 8"	2' 11"	2' 7"	2' 11"	2' 6"	3' 0"	2' 5"	3' 2"	2' 4"	3' 4"	2' 2"	3' 8"	2' 0"	4' 3"
2' 6"	2' 5"	2' 7"	2' 5"	2' 7"	2' 5"	2' 7"	2' 4"	2' 8"	2' 4"	2' 9"	2' 3"	2' 10"	2' 2"	2' 12"	2' 0"	3' 3"	1' 11"	3' 8"

MA 50 – feet

ARRI/ZEISS Master Anamorphic MA 50/T1.9 depth-of-field table in feet (circle of confusion: 0.025 mm)



Engraving	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
feet	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
300'	93' 11"	INF	89' 4"	INF	69' 3"	INF	52' 6"	INF	39' 1"	INF	28' 9"	INF	20' 11"	INF	15' 1"	INF	10' 10"	INF
150'	71' 7"	INF	68' 10"	INF	56' 3"	INF	44' 8"	INF	34' 7"	INF	26' 3"	INF	19' 7"	INF	14' 5"	INF	10' 6"	INF
100'	57' 9"	371' 4"	56' 0"	465' 4"	47' 5"	INF	38' 11"	INF	31' 1"	INF	24' 2"	INF	18' 5"	INF	13' 9"	INF	10' 1"	INF
70'	46' 4"	143' 2"	45' 2"	155' 3"	39' 5"	313' 5"	33' 4"	INF	27' 5"	INF	21' 11"	INF	17' 1"	INF	12' 12"	INF	9' 8"	INF
50'	36' 8"	78' 9"	35' 11"	82' 3"	32' 2"	112' 2"	28' 0"	231' 4"	23' 9"	INF	19' 6"	INF	15' 7"	INF	12' 1"	INF	9' 2"	INF
40'	30' 12"	56' 6"	30' 5"	58' 3"	27' 9"	71' 10"	24' 7"	107' 1"	21' 2"	351' 1"	17' 9"	INF	14' 5"	INF	11' 5"	INF	8' 10"	INF
30'	24' 7"	38' 5"	24' 4"	39' 2"	22' 6"	44' 11"	20' 5"	56' 6"	18' 0"	89' 2"	15' 6"	488' 1"	12' 11"	INF	10' 5"	INF	8' 3"	INF
25'	21' 2"	30' 7"	20' 11"	31' 1"	19' 7"	34' 6"	17' 12"	41' 0"	16' 1"	55' 10"	14' 0"	114' 3"	11' 11"	INF	9' 9"	INF	7' 9"	INF
20'	17' 6"	23' 5"	17' 4"	23' 8"	16' 5"	25' 8"	15' 3"	29' 1"	13' 11"	35' 10"	12' 4"	53' 2"	10' 8"	170' 1"	8' 11"	INF	7' 3"	INF
18'	15' 11"	20' 8"	15' 9"	20' 11"	15' 0"	22' 5"	14' 1"	25' 0"	12' 11"	29' 10"	11' 6"	41' 0"	10' 0"	87' 2"	8' 6"	INF	6' 11"	INF
16'	14' 4"	18' 1"	14' 3"	18' 3"	13' 7"	19' 5"	12' 10"	21' 4"	11' 10"	24' 8"	10' 8"	31' 11"	9' 5"	54' 2"	8' 0"	INF	6' 8"	INF
14'	12' 9"	15' 7"	12' 8"	15' 9"	12' 2"	16' 7"	11' 6"	17' 11"	10' 8"	20' 3"	9' 9"	24' 9"	8' 8"	36' 5"	7' 6"	108' 1"	6' 3"	INF
12'	11' 1"	13' 2"	10' 12"	13' 3"	10' 7"	13' 10"	10' 1"	14' 9"	9' 6"	16' 3"	8' 9"	19' 1"	7' 10"	25' 4"	6' 11"	46' 12"	5' 10"	INF
11'	10' 2"	11' 11"	10' 2"	12' 0"	9' 10"	12' 6"	9' 5"	13' 3"	8' 10"	14' 6"	8' 2"	16' 8"	7' 5"	21' 3"	6' 6"	34' 7"	5' 7"	306' 5"
10'	9' 4"	10' 9"	9' 3"	10' 10"	9' 0"	11' 3"	8' 8"	11' 10"	8' 2"	12' 10"	7' 8"	14' 6"	6' 11"	17' 9"	6' 2"	26' 3"	5' 4"	80' 1"
9'	8' 5"	9' 7"	8' 5"	9' 8"	8' 2"	9' 12"	7' 11"	10' 5"	7' 6"	11' 2"	7' 1"	12' 6"	6' 6"	14' 10"	5' 9"	20' 3"	5' 0"	42' 1"
8'	7' 7"	8' 6"	7' 6"	8' 6"	7' 4"	8' 9"	7' 1"	9' 2"	6' 10"	9' 8"	6' 5"	10' 7"	5' 11"	12' 3"	5' 4"	15' 9"	4' 9"	26' 5"
7' 6"	7' 1"	7' 11"	7' 1"	7' 12"	6' 11"	8' 2"	6' 9"	8' 6"	6' 5"	8' 12"	6' 1"	9' 9"	5' 8"	11' 2"	5' 2"	13' 11"	4' 6"	21' 7"
7'	6' 8"	7' 4"	6' 8"	7' 5"	6' 6"	7' 7"	6' 4"	7' 10"	6' 1"	8' 3"	5' 9"	8' 11"	5' 4"	10' 1"	4' 11"	12' 3"	4' 4"	17' 10"
6' 6"	6' 3"	6' 10"	6' 2"	6' 10"	6' 1"	6' 12"	5' 11"	7' 3"	5' 8"	7' 7"	5' 5"	8' 1"	5' 1"	9' 1"	4' 8"	10' 10"	4' 2"	14' 11"
6'	5' 9"	6' 3"	5' 9"	6' 3"	5' 8"	6' 5"	5' 6"	6' 7"	5' 4"	6' 11"	5' 1"	7' 4"	4' 9"	8' 1"	4' 5"	9' 6"	3' 11"	12' 6"
5' 9"	5' 6"	5' 12"	5' 6"	6' 0"	5' 5"	6' 2"	5' 3"	6' 4"	5' 1"	6' 7"	4' 11"	6' 12"	4' 7"	7' 8"	4' 3"	8' 10"	3' 10"	11' 5"
5' 6"	5' 4"	5' 9"	5' 3"	5' 9"	5' 2"	5' 10"	5' 1"	6' 0"	4' 11"	6' 3"	4' 9"	6' 7"	4' 5"	7' 3"	4' 1"	8' 3"	3' 9"	10' 6"
5' 3"	5' 1"	5' 5"	5' 1"	5' 6"	4' 12"	5' 7"	4' 10"	5' 8"	4' 9"	5' 11"	4' 6"	6' 3"	4' 3"	6' 9"	3' 12"	7' 9"	3' 7"	9' 7"
5'	4' 10"	5' 2"	4' 10"	5' 2"	4' 9"	5' 3"	4' 8"	5' 5"	4' 6"	5' 7"	4' 4"	5' 11"	4' 1"	6' 4"	3' 10"	7' 2"	3' 6"	8' 9"
4' 9"	4' 7"	4' 11"	4' 7"	4' 11"	4' 6"	5' 0"	4' 5"	5' 1"	4' 4"	5' 3"	4' 2"	5' 7"	3' 11"	5' 12"	3' 8"	6' 8"	3' 4"	8' 0"
4' 6"	4' 4"	4' 8"	4' 4"	4' 8"	4' 4"	4' 9"	4' 3"	4' 10"	4' 1"	4' 12"	3' 12"	5' 3"	3' 9"	5' 7"	3' 6"	6' 2"	3' 3"	7' 4"
4' 3"	4' 2"	4' 5"	4' 1"	4' 5"	4' 1"	4' 5"	3' 12"	4' 7"	3' 11"	4' 8"	3' 9"	4' 11"	3' 7"	5' 2"	3' 5"	5' 9"	3' 1"	6' 8"
4'	3' 11"	4' 1"	3' 11"	4' 1"	3' 10"	4' 2"	3' 9"	4' 3"	3' 8"	4' 4"	3' 7"	4' 7"	3' 5"	4' 10"	3' 3"	5' 3"	2' 12"	6' 1"
3' 9"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7"	3' 11"	3' 7"	3' 12"	3' 6"	4' 1"	3' 4"	4' 3"	3' 3"	4' 6"	3' 1"	4' 10"	2' 10"	5' 6"
3' 6"	3' 5"	3' 7"	3' 5"	3' 7"	3' 5"	3' 8"	3' 4"	3' 8"	3' 3"	3' 9"	3' 2"	3' 11"	3' 1"	4' 1"	2' 11"	4' 5"	2' 8"	4' 12"
3' 3"	3' 2"	3' 4"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1"	3' 5"	3' 0"	3' 6"	2' 12"	3' 7"	2' 10"	3' 9"	2' 9"	4' 0"	2' 7"	4' 6"
3'	2' 11"	3' 1"	2' 11"	3' 1"	2' 11"	3' 1"	2' 10"	3' 2"	2' 10"	3' 2"	2' 9"	3' 4"	2' 8"	3' 5"	2' 7"	3' 8"	2' 5"	4' 0"
2' 9"	2' 8"	2' 10"	2' 8"	2' 10"	2' 8"	2' 10"	2' 8"	2' 10"	2' 7"	2' 11"	2' 7"	2' 12"	2' 6"	3' 1"	2' 4"	3' 3"	2' 3"	3' 7"
2' 6"	2' 5"	2' 7"	2' 5"	2' 7"	2' 5"	2' 7"	2' 5"	2' 7"	2' 5"	2' 8"	2' 4"	2' 8"	2' 3"	2' 9"	2' 2"	2' 11"	2' 1"	3' 2"

MA 60 – feet



ARRI/ZEISS Master Anamorphic MA 60/T1.9 depth-of-field table in feet (circle of confusion: 0.025 mm)

Engraving	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
feet	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
300'	117' 3"	INF	112' 4"	INF	89' 2"	INF	69' 1"	INF	52' 5"	INF	39' 0"	INF	28' 8"	INF	20' 11"	INF	15' 1"	INF
150'	84' 4"	677' 7"	81' 9"	INF	68' 9"	INF	56' 2"	INF	44' 7"	INF	34' 7"	INF	26' 2"	INF	19' 6"	INF	14' 4"	INF
100'	65' 10"	207' 9"	64' 3"	225' 5"	55' 12"	469' 1"	47' 4"	INF	38' 10"	INF	31' 0"	INF	24' 1"	INF	18' 4"	INF	13' 9"	INF
70'	51' 4"	109' 10'	50' 5"	114' 7"	45' 2"	155' 8'	39' 4"	315' 8"	33' 4"	INF	27' 5"	INF	21' 10"	INF	17' 0"	INF	12' 11"	INF
50'	39' 9"	67' 6"	39' 2"	69' 3"	35' 11"	82' 4"	32' 2"	112' 5"	28' 0"	232' 10"	23' 8"	INF	19' 5"	INF	15' 6"	INF	12' 1"	INF
40'	33' 2"	50' 5"	32' 9"	51' 5"	30' 5"	58' 3"	27' 8"	71' 11"	24' 7"	107' 5"	21' 2"	355' 8"	17' 9"	INF	14' 5"	INF	11' 5"	INF
30'	25' 12"	35' 6"	25' 9"	35' 12"	24' 4"	39' 3"	22' 6"	44' 11"	20' 5"	56' 7"	18' 0"	89' 5"	15' 6"	498' 7"	12' 11"	INF	10' 5"	INF
25'	22' 2"	28' 8"	21' 12"	29' 0"	20' 11"	31' 1"	19' 7"	34' 7"	17' 12"	41' 1"	16' 1"	55' 11"	14' 0"	114' 9"	11' 10"	INF	9' 9"	INF
22'	19' 9"	24' 10"	19' 7"	25' 1"	18' 9"	26' 7"	17' 8"	29' 1"	16' 4"	33' 6"	14' 10"	42' 10"	13' 0"	70' 5"	11' 2"	795' 5"	9' 3"	INF
20'	18' 2"	22' 4"	18' 0"	22' 6"	17' 4"	23' 8"	16' 5"	25' 8"	15' 3"	29' 1"	13' 10"	35' 10"	12' 4"	53' 3"	10' 7"	171' 2"	8' 11"	INF
18'	16' 6"	19' 10"	16' 5"	19' 12"	15' 9"	20' 11"	15' 0"	22' 5"	14' 1"	25' 0"	12' 11"	29' 10"	11' 6"	41' 0"	10' 0"	87' 4"	8' 6"	INF
16'	14' 9"	17' 5"	14' 8"	17' 7"	14' 3"	18' 3"	13' 7"	19' 5"	12' 10"	21' 4"	11' 10"	24' 8"	10' 8"	31' 11"	9' 5"	54' 2"	8' 0"	INF
14'	13' 1"	15' 1"	13' 0"	15' 2"	12' 8"	15' 9"	12' 2"	16' 7"	11' 6"	17' 11"	10' 8"	20' 3"	9' 9"	24' 9"	8' 8"	36' 5"	7' 6"	108' 2"
13'	12' 2"	13' 11"	12' 2"	13' 12"	11' 10"	14' 6"	11' 5"	15' 2"	10' 10"	16' 3"	10' 1"	18' 2"	9' 3"	21' 10"	8' 3"	30' 4"	7' 2"	67' 6"
12'	11' 4"	12' 9"	11' 3"	12' 10"	10' 12"	13' 3"	10' 7"	13' 10"	10' 1"	14' 9"	9' 6"	16' 3"	8' 9"	19' 1"	7' 10"	25' 4"	6' 11"	46' 11"
11'	10' 5"	11' 8"	10' 5"	11' 8"	10' 2"	12' 0"	9' 10"	12' 6"	9' 5"	13' 3"	8' 10"	14' 6"	8' 2"	16' 8"	7' 5"	21' 3"	6' 7"	34' 6"
10'	9' 6"	10' 6"	9' 6"	10' 7"	9' 3"	10' 10"	9' 0"	11' 3"	8' 8"	11' 10"	8' 2"	12' 10"	7' 8"	14' 6"	6' 11"	17' 9"	6' 2"	26' 2"
9' 6"	9' 1"	9' 12"	9' 0"	10' 0"	8' 10"	10' 3"	8' 7"	10' 7"	8' 3"	11' 2"	7' 10"	11' 12"	7' 4"	13' 5"	6' 9"	16' 3"	5' 12"	22' 12"
9'	8' 7"	9' 5"	8' 7"	9' 6"	8' 5"	9' 8"	8' 2"	9' 12"	7' 11"	10' 5"	7' 6"	11' 2"	7' 1"	12' 6"	6' 6"	14' 10"	5' 9"	20' 3"
8' 6"	8' 2"	8' 11"	8' 1"	8' 11"	7' 12"	9' 1"	7' 9"	9' 4"	7' 6"	9' 9"	7' 2"	10' 5"	6' 9"	11' 6"	6' 2"	13' 6"	5' 7"	17' 10"
8'	7' 8"	8' 4"	7' 8"	8' 4"	7' 6"	8' 6"	7' 4"	8' 9"	7' 1"	9' 1"	6' 10"	9' 8"	6' 5"	10' 7"	5' 11"	12' 3"	5' 4"	15' 9"
7' 6"	7' 3"	7' 10"	7' 2"	7' 10"	7' 1"	7' 11"	6' 11"	8' 2"	6' 9"	8' 6"	6' 5"	8' 12"	6' 1"	9' 9"	5' 8"	11' 1"	5' 2"	13' 11"
7'	6' 9"	7' 3"	6' 9"	7' 3"	6' 8"	7' 5"	6' 6"	7' 7"	6' 4"	7' 10"	6' 1"	8' 3"	5' 9"	8' 11"	5' 4"	10' 1"	4' 11"	12' 3"
6' 6"	6' 4"	6' 9"	6' 3"	6' 9"	6' 2"	6' 10"	6' 1"	6' 12"	5' 11"	7' 3"	5' 8"	7' 7"	5' 5"	8' 1"	5' 1"	9' 1"	4' 8"	10' 9"
6'	5' 10"	6' 2"	5' 10"	6' 2"	5' 9"	6' 3"	5' 8"	6' 5"	5' 6"	6' 7"	5' 4"	6' 11"	5' 1"	7' 4"	4' 9"	8' 1"	4' 5"	9' 6"
5' 9"	5' 7"	5' 11"	5' 7"	5' 11"	5' 6"	6' 0"	5' 5"	6' 2"	5' 3"	6' 4"	5' 1"	6' 7"	4' 11"	6' 12"	4' 7"	7' 8"	4' 3"	8' 10"
5' 6"	5' 4"	5' 8"	5' 4"	5' 8"	5' 3"	5' 9"	5' 2"	5' 10"	5' 1"	6' 0"	4' 11"	6' 3"	4' 9"	6' 7"	4' 5"	7' 2"	4' 1"	8' 3"
5' 3"	5' 1"	5' 5"	5' 1"	5' 5"	5' 1"	5' 6"	4' 12"	5' 7"	4' 10"	5' 8"	4' 9"	5' 11"	4' 6"	6' 3"	4' 3"	6' 9"	3' 12"	7' 8"
5'	4' 11"	5' 2"	4' 10"	5' 2"	4' 10"	5' 2"	4' 9"	5' 3"	4' 8"	5' 5"	4' 6"	5' 7"	4' 4"	5' 11"	4' 1"	6' 4"	3' 10"	7' 2"
4' 9"	4' 8"	4' 10"	4' 8"	4' 10"	4' 7"	4' 11"	4' 6"	5' 0"	4' 5"	5' 1"	4' 4"	5' 3"	4' 2"	5' 7"	3' 11"	5' 12"	3' 8"	6' 8"
4' 6"	4' 5"	4' 7"	4' 5"	4' 7"	4' 4"	4' 8"	4' 4"	4' 9"	4' 3"	4' 10"	4' 1"	4' 12"	3' 12"	5' 2"	3' 9"	5' 7"	3' 6"	6' 2"
4' 3"	4' 2"	4' 4"	4' 2"	4' 4"	4' 1"	4' 5"	4' 1"	4' 5"	3' 12"	4' 6"	3' 11"	4' 8"	3' 9"	4' 10"	3' 7"	5' 2"	3' 5"	5' 9"
4'	3' 11"	4' 1"	3' 11"	4' 1"	3' 11"	4' 1"	3' 10"	4' 2"	3' 9"	4' 3"	3' 8"	4' 4"	3' 7"	4' 7"	3' 5"	4' 10"	3' 3"	5' 3"
3' 9"	3' 8"	3' 10"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7"	3' 11"	3' 7"	3' 12"	3' 6"	4' 1"	3' 4"	4' 3"	3' 3"	4' 5"	3' 1"	4' 10"
3' 6"	3' 5"	3' 7"	3' 5"	3' 7"	3' 5"	3' 7"	3' 5"	3' 8"	3' 4"	3' 8"	3' 3"	3' 9"	3' 2"	3' 11"	3' 1"	4' 1"	2' 11"	4' 5"
3' 3"	3' 2"	3' 4"	3' 2"	3' 4"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1"	3' 5"	3' 1"	3' 6"	2' 12"	3' 7"	2' 10"	3' 9"	2' 9"	4' 0"
3'	2' 11"	3' 1"	2' 11"	3' 1"	2' 11"	3' 1"	2' 11"	3' 1"	2' 10"	3' 2"	2' 10"	3' 2"	2' 9"	3' 3"	2' 8"	3' 5"	2' 7"	3' 8"

MA 75 – feet



ARRI/ZEISS Master Anamorphic MA 75/T1.9 depth-of-field table in feet (circle of confusion: 0.025 mm)

Engraving	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
feet	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
300'	148' 0"	INF	142' 7"	INF	117' 1"	INF	93' 6"	INF	72' 9"	INF	55' 4"	INF	41' 5"	INF	30' 6"	INF	22' 3"	INF
150'	99' 2"	307' 11'	96' 8"	334' 8'	84' 3"	682' 11'	71' 4"	INF	58' 7"	INF	46' 9"	INF	36' 5"	INF	27' 8"	INF	20' 9"	INF
100'	74' 6"	151' 11'	73' 1"	158' 1'	65' 10"	208' 3'	57' 8"	377' 6'	49' 0"	INF	40' 6"	INF	32' 6"	INF	25' 5"	INF	19' 5"	INF
70'	56' 6"	91' 12'	55' 8"	94' 3'	51' 4"	109' 12'	46' 3"	144' 1'	40' 6"	256' 4'	34' 6"	INF	28' 6"	INF	22' 11"	INF	17' 11"	INF
50'	42' 9"	60' 3"	42' 3"	61' 3"	39' 8"	67' 6'	36' 7"	78' 11"	32' 11"	103' 10"	28' 10"	187' 6"	24' 7"	INF	20' 3"	INF	16' 3"	INF
40'	35' 2"	46' 4"	34' 11"	46' 10"	33' 2"	50' 5"	30' 11"	56' 7"	28' 3"	68' 4"	25' 3"	96' 7"	21' 11"	233' 5"	18' 5"	INF	15' 1"	INF
35'	31' 3"	39' 9"	31' 0"	40' 2"	29' 8"	42' 9"	27' 10"	47' 1"	25' 8"	54' 11"	23' 2"	71' 9"	20' 4"	126' 12"	17' 3"	INF	14' 4"	INF
30'	27' 3"	33' 5"	27' 0"	33' 8"	25' 12"	35' 6"	24' 7"	38' 5"	22' 11"	43' 6"	20' 10"	53' 5"	18' 6"	78' 12"	15' 12"	244' 0"	13' 5"	INF
25'	23' 1"	27' 4"	22' 11"	27' 6"	22' 2"	28' 8"	21' 2"	30' 7"	19' 10"	33' 8"	18' 4"	39' 4"	16' 6"	51' 8"	14' 5"	92' 6"	12' 4"	INF
22'	20' 6"	23' 9"	20' 4"	23' 11"	19' 9"	24' 10"	18' 12"	26' 2"	17' 11"	28' 5"	16' 8"	32' 5"	15' 2"	40' 3"	13' 5"	61' 4"	11' 6"	236' 2"
20'	18' 9"	21' 5"	18' 8"	21' 7"	18' 2"	22' 4"	17' 6"	23' 5"	16' 7"	25' 2"	15' 6"	28' 3"	14' 2"	33' 12"	12' 8"	47' 11"	10' 12"	113' 4"
18'	16' 12"	19' 2"	16' 11"	19' 3"	16' 6"	19' 10"	15' 11"	20' 9"	15' 2"	22' 1"	14' 3"	24' 5"	13' 2"	28' 7"	11' 10"	37' 9"	10' 4"	69' 3"
16'	15' 2"	16' 11"	15' 1"	16' 12"	14' 9"	17' 5"	14' 4"	18' 1"	13' 9"	19' 2"	12' 12"	20' 10"	12' 1"	23' 10"	10' 11"	29' 10"	9' 8"	46' 7"
14'	13' 4"	14' 8"	13' 4"	14' 9"	13' 1"	15' 1"	12' 9"	15' 7"	12' 3"	16' 4"	11' 8"	17' 7"	10' 11"	19' 8"	9' 12"	23' 7"	8' 11"	32' 10"
13'	12' 5"	13' 7"	12' 5"	13' 8"	12' 2"	13' 11"	11' 11"	14' 4"	11' 6"	14' 12"	10' 11"	16' 0"	10' 3"	17' 8"	9' 5"	20' 10"	8' 6"	27' 9"
12'	11' 6"	12' 6"	11' 6"	12' 7"	11' 4"	12' 9"	11' 1"	13' 2"	10' 8"	13' 8"	10' 3"	14' 6"	9' 8"	15' 11"	8' 11"	18' 4"	8' 1"	23' 6"
11'	10' 7"	11' 5"	10' 7"	11' 5"	10' 5"	11' 8"	10' 2"	11' 11"	9' 11"	12' 5"	9' 6"	13' 1"	8' 12"	14' 2"	8' 4"	16' 1"	7' 7"	19' 11"
10'	9' 8"	10' 4"	9' 8"	10' 4"	9' 6"	10' 6"	9' 4"	10' 9"	9' 1"	11' 2"	8' 9"	11' 8"	8' 4"	12' 7"	7' 9"	14' 0"	7' 1"	16' 10"
9' 6"	9' 2"	9' 10"	9' 2"	9' 10"	9' 1"	9' 12"	8' 11"	10' 2"	8' 8"	10' 6"	8' 4"	11' 0"	7' 12"	11' 9"	7' 6"	13' 1"	6' 10"	15' 6"
9'	8' 9"	9' 3"	8' 9"	9' 4"	8' 7"	9' 5"	8' 5"	9' 7"	8' 3"	9' 11"	7' 12"	10' 4"	7' 7"	11' 0"	7' 2"	12' 2"	6' 7"	14' 2"
8' 6"	8' 3"	8' 9"	8' 3"	8' 9"	8' 2"	8' 11"	8' 0"	9' 1"	7' 10"	9' 4"	7' 7"	9' 8"	7' 3"	10' 3"	6' 10"	11' 3"	6' 4"	12' 12"
8'	7' 10"	8' 3"	7' 9"	8' 3"	7' 8"	8' 4"	7' 7"	8' 6"	7' 5"	8' 8"	7' 2"	9' 0"	6' 11"	9' 7"	6' 6"	10' 4"	6' 1"	11' 10"
7' 6"	7' 4"	7' 8"	7' 4"	7' 8"	7' 3"	7' 10"	7' 1"	7' 11"	6' 12"	8' 1"	6' 9"	8' 5"	6' 6"	8' 10"	6' 2"	9' 6"	5' 9"	10' 9"
7'	6' 10"	7' 2"	6' 10"	7' 2"	6' 9"	7' 3"	6' 8"	7' 4"	6' 6"	7' 6"	6' 4"	7' 9"	6' 2"	8' 2"	5' 10"	8' 9"	5' 6"	9' 9"
6' 9"	6' 7"	6' 11"	6' 7"	6' 11"	6' 6"	6' 12"	6' 5"	7' 1"	6' 4"	7' 3"	6' 2"	7' 6"	5' 11"	7' 10"	5' 8"	8' 4"	5' 4"	9' 3"
6' 6"	6' 4"	6' 8"	6' 4"	6' 8"	6' 4"	6' 9"	6' 3"	6' 10"	6' 1"	6' 11"	5' 11"	7' 2"	5' 9"	7' 6"	5' 6"	7' 12"	5' 2"	8' 10"
6' 3"	6' 1"	6' 5"	6' 1"	6' 5"	6' 1"	6' 5"	5' 12"	6' 6"	5' 11"	6' 8"	5' 9"	6' 10"	5' 7"	7' 2"	5' 4"	7' 7"	4' 12"	8' 4"
6'	5' 11"	6' 1"	5' 11"	6' 2"	5' 10"	6' 2"	5' 9"	6' 3"	5' 8"	6' 5"	5' 6"	6' 7"	5' 4"	6' 10"	5' 2"	7' 3"	4' 10"	7' 11"
5' 9"	5' 8"	5' 10"	5' 8"	5' 10"	5' 7"	5' 11"	5' 6"	5' 12"	5' 5"	6' 1"	5' 4"	6' 3"	5' 2"	6' 6"	4' 11"	6' 10"	4' 8"	7' 6"
5' 6"	5' 5"	5' 7"	5' 5"	5' 7"	5' 4"	5' 8"	5' 4"	5' 9"	5' 3"	5' 10"	5' 1"	5' 12"	4' 11"	6' 2"	4' 9"	6' 6"	4' 6"	7' 1"
5' 3"	5' 2"	5' 4"	5' 2"	5' 4"	5' 1"	5' 5"	5' 1"	5' 5"	4' 12"	5' 6"	4' 11"	5' 8"	4' 9"	5' 10"	4' 7"	6' 2"	4' 4"	6' 8"
5'	4' 11"	5' 1"	4' 11"	5' 1"	4' 11"	5' 2"	4' 10"	5' 2"	4' 9"	5' 3"	4' 8"	5' 5"	4' 7"	5' 7"	4' 5"	5' 10"	4' 2"	6' 3"
4' 9"	4' 8"	4' 10"	4' 8"	4' 10"	4' 8"	4' 10"	4' 7"	4' 11"	4' 6"	4' 12"	4' 5"	5' 1"	4' 4"	5' 3"	4' 2"	5' 6"	3' 12"	5' 10"
4' 6"	4' 5"	4' 7"	4' 5"	4' 7"	4' 5"	4' 7"	4' 4"	4' 8"	4' 4"	4' 9"	4' 3"	4' 10"	4' 2"	4' 11"	3' 12"	5' 2"	3' 10"	5' 6"
4' 3"	4' 2"	4' 4"	4' 2"	4' 4"	4' 2"	4' 4"	4' 2"	4' 5"	4' 1"	4' 5"	4' 0"	4' 6"	3' 11"	4' 8"	3' 10"	4' 10"	3' 8"	5' 1"
4'	3' 11"	4' 1"	3' 11"	4' 1"	3' 11"	4' 1"	3' 11"	4' 1"	3' 10"	4' 2"	3' 9"	4' 3"	3' 9"	4' 4"	3' 7"	4' 6"	3' 6"	4' 9"
3' 9"	3' 8"	3' 10"	3' 8"	3' 10"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7"	3' 11"	3' 7"	3' 11"	3' 6"	4' 1"	3' 5"	4' 2"	3' 3"	4' 5"
3' 6"	3' 6"	3' 6"	3' 6"	3' 7"	3' 5"	3' 7"	3' 5"	3' 7"	3' 5"	3' 7"	3' 4"	3' 8"	3' 3"	3' 9"	3' 2"	3' 10"	3' 1"	4' 1"
3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 2"	3' 4"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1"	3' 5"	3' 1"	3' 6"	2' 12"	3' 7"	2' 11"	3' 9"
3'	2' 12"	3' 0"	2' 12"	3' 0"	2' 11"	3' 1"	2' 11"	3' 1"	2' 11"	3' 1"	2' 11"	3' 2"	2' 10"	3' 2"	2' 9"	3' 3"	2' 8"	3' 5"

MA 100 – feet



ARRI/ZEISS Master Anamorphic MA 100/T1.9 depth-of-field table in feet (circle of confusion: 0.025 mm)

Engraving	T1.9		T2		T2.8		T4		T5.6		T8		T11		T16		T22	
feet	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to	from	to
300'	186' 11"	INF	181' 10"	INF	156' 4"	INF	130' 5"	INF	105' 8"	INF	83' 4"	INF	64' 2"	INF	48' 5"	INF	35' 11"	INF
150'	115' 2"	214' 12'	113' 3"	222' 1'	102' 10"	277' 3'	90' 11"	427' 7'	78' 2"	INF	65' 3"	INF	52' 11"	INF	41' 8"	INF	32' 1"	INF
100'	83' 3"	125' 2'	82' 3"	127' 7"	76' 7"	144' 0'	69' 10"	176' 2'	62' 1"	257' 4'	53' 8"	INF	44' 12"	INF	36' 8"	INF	29' 0"	INF
70'	61' 4"	81' 6'	60' 10"	82' 6'	57' 8"	89' 0'	53' 9"	100' 4'	49' 1"	122' 3'	43' 8"	176' 11"	37' 9"	481' 10'	31' 8"	INF	25' 10"	INF
50'	45' 5"	55' 7"	45' 2"	56' 0"	43' 5"	58' 12'	41' 2"	63' 9"	38' 4"	71' 11"	34' 11"	87' 10"	31' 1"	127' 12"	26' 10"	361' 9"	22' 6"	INF
40'	37' 0"	43' 6"	36' 10"	43' 9"	35' 8"	45' 6"	34' 2"	48' 4"	32' 2"	52' 10"	29' 9"	60' 12"	26' 11"	77' 11"	23' 8"	128' 4"	20' 3"	INF
35'	32' 9"	37' 8"	32' 7"	37' 10"	31' 8"	39' 2"	30' 5"	41' 2"	28' 10"	44' 5"	26' 11"	50' 1"	24' 7"	60' 11"	21' 10"	87' 10"	18' 11"	234' 5"
30'	28' 4"	31' 11"	28' 2"	32' 1"	27' 6"	33' 0"	26' 7"	34' 5"	25' 5"	36' 8"	23' 10"	40' 5"	21' 12"	47' 2"	19' 10"	61' 10"	17' 4"	110' 4"
25'	23' 10"	26' 4"	23' 9"	26' 5"	23' 3"	27' 1"	22' 7"	27' 12"	21' 9"	29' 5"	20' 7"	31' 10"	19' 2"	35' 10"	17' 6"	43' 9"	15' 7"	63' 4"
22'	21' 1"	23' 0"	21' 0"	23' 1"	20' 8"	23' 7"	20' 1"	24' 3"	19' 5"	25' 4"	18' 6"	27' 1"	17' 5"	29' 12"	15' 12"	35' 3"	14' 4"	46' 12"
20'	19' 3"	20' 10"	19' 2"	20' 11"	18' 10"	21' 3"	18' 5"	21' 10"	17' 10"	22' 9"	17' 1"	24' 1"	16' 1"	26' 4"	14' 11"	30' 4"	13' 6"	38' 8"
18'	17' 5"	18' 8"	17' 4"	18' 9"	17' 1"	19' 0"	16' 9"	19' 6"	16' 3"	20' 2"	15' 7"	21' 3"	14' 10"	22' 12"	13' 9"	25' 12"	12' 7"	31' 9"
16'	15' 6"	16' 6"	15' 6"	16' 7"	15' 3"	16' 10"	14' 12"	17' 2"	14' 7"	17' 8"	14' 1"	18' 6"	13' 5"	19' 10"	12' 7"	21' 12"	11' 7"	25' 12"
14'	13' 7"	14' 5"	13' 7"	14' 5"	13' 5"	14' 7"	13' 3"	14' 11"	12' 11"	15' 3"	12' 6"	15' 11"	11' 12"	16' 10"	11' 4"	18' 4"	10' 6"	21' 1"
13'	12' 8"	13' 4"	12' 8"	13' 4"	12' 6"	13' 6"	12' 4"	13' 9"	12' 1"	14' 1"	11' 9"	14' 7"	11' 3"	15' 5"	10' 8"	16' 8"	9' 11"	18' 10"
12'	11' 9"	12' 3"	11' 8"	12' 4"	11' 7"	12' 5"	11' 5"	12' 8"	11' 2"	12' 11"	10' 11"	13' 4"	10' 6"	14' 0"	9' 12"	15' 1"	9' 4"	16' 10"
11'	10' 9"	11' 3"	10' 9"	11' 3"	10' 8"	11' 4"	10' 6"	11' 6"	10' 4"	11' 9"	10' 1"	12' 1"	9' 9"	12' 8"	9' 3"	13' 6"	8' 9"	14' 11"
10'	9' 10"	10' 2"	9' 10"	10' 3"	9' 9"	10' 4"	9' 7"	10' 5"	9' 5"	10' 8"	9' 3"	10' 11"	8' 11"	11' 4"	8' 7"	12' 0"	8' 1"	13' 1"
9' 6"	9' 4"	9' 8"	9' 4"	9' 8"	9' 3"	9' 9"	9' 2"	9' 11"	8' 12"	10' 1"	8' 10"	10' 4"	8' 6"	10' 8"	8' 2"	11' 4"	7' 9"	12' 3"
9'	8' 10"	9' 2"	8' 10"	9' 2"	8' 9"	9' 3"	8' 8"	9' 4"	8' 7"	9' 6"	8' 4"	9' 9"	8' 2"	10' 1"	7' 10"	10' 7"	7' 5"	11' 5"
8' 6"	8' 4"	8' 8"	8' 4"	8' 8"	8' 4"	8' 9"	8' 3"	8' 10"	8' 1"	8' 11"	7' 11"	9' 2"	7' 9"	9' 5"	7' 5"	9' 11"	7' 1"	10' 8"
8'	7' 11"	8' 2"	7' 10"	8' 2"	7' 10"	8' 2"	7' 9"	8' 3"	7' 8"	8' 5"	7' 6"	8' 7"	7' 4"	8' 10"	7' 1"	9' 3"	6' 9"	9' 10"
7' 6"	7' 5"	7' 7"	7' 5"	7' 7"	7' 4"	7' 8"	7' 3"	7' 9"	7' 2"	7' 10"	7' 1"	7' 12"	6' 11"	8' 3"	6' 8"	8' 7"	6' 5"	9' 1"
7' 3"	7' 2"	7' 4"	7' 2"	7' 4"	7' 1"	7' 5"	7' 0"	7' 6"	6' 11"	7' 7"	6' 10"	7' 9"	6' 8"	7' 11"	6' 6"	8' 3"	6' 2"	8' 9"
7'	6' 11"	7' 1"	6' 11"	7' 1"	6' 10"	7' 2"	6' 10"	7' 3"	6' 9"	7' 4"	6' 7"	7' 5"	6' 6"	7' 7"	6' 3"	7' 11"	6' 0"	8' 4"
6' 9"	6' 8"	6' 10"	6' 8"	6' 10"	6' 7"	6' 11"	6' 7"	6' 11"	6' 6"	7' 0"	6' 5"	7' 2"	6' 3"	7' 4"	6' 1"	7' 7"	5' 10"	8' 0"
6' 6"	6' 5"	6' 7"	6' 5"	6' 7"	6' 5"	6' 8"	6' 4"	6' 8"	6' 3"	6' 9"	6' 2"	6' 10"	6' 1"	7' 0"	5' 10"	7' 3"	5' 8"	7' 8"
6' 3"	6' 2"	6' 4"	6' 2"	6' 4"	6' 2"	6' 4"	6' 1"	6' 5"	6' 0"	6' 6"	5' 11"	6' 7"	5' 10"	6' 9"	5' 8"	6' 12"	5' 5"	7' 4"
6'	5' 11"	6' 1"	5' 11"	6' 1"	5' 11"	6' 1"	5' 10"	6' 2"	5' 10"	6' 3"	5' 9"	6' 4"	5' 7"	6' 5"	5' 6"	6' 8"	5' 3"	6' 12"
5' 9"	5' 8"	5' 10"	5' 8"	5' 10"	5' 8"	5' 10"	5' 7"	5' 11"	5' 7"	5' 11"	5' 6"	6' 0"	5' 5"	6' 2"	5' 3"	6' 4"	5' 1"	6' 8"
5' 6"	5' 5"	5' 7"	5' 5"	5' 7"	5' 5"	5' 7"	5' 5"	5' 8"	5' 4"	5' 8"	5' 3"	5' 9"	5' 2"	5' 10"	5' 1"	6' 1"	4' 11"	6' 4"
5' 3"	5' 2"	5' 4"	5' 2"	5' 4"	5' 2"	5' 4"	5' 2"	5' 4"	5' 1"	5' 5"	5' 0"	5' 6"	4' 11"	5' 7"	4' 10"	5' 9"	4' 8"	5' 12"
5'	4' 11"	5' 1"	4' 11"	5' 1"	4' 11"	5' 1"	4' 11"	5' 1"	4' 10"	5' 2"	4' 10"	5' 3"	4' 9"	5' 4"	4' 8"	5' 5"	4' 6"	5' 8"
4' 9"	4' 8"	4' 10"	4' 8"	4' 10"	4' 8"	4' 10"	4' 8"	4' 10"	4' 8"	4' 11"	4' 7"	4' 11"	4' 6"	5' 0"	4' 5"	5' 2"	4' 3"	5' 4"
4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 5"	4' 7"	4' 5"	4' 7"	4' 5"	4' 7"	4' 4"	4' 8"	4' 3"	4' 9"	4' 2"	4' 10"	4' 1"	5' 0"
4' 3"	4' 3"	4' 3"	4' 3"	4' 3"	4' 2"	4' 4"	4' 2"	4' 4"	4' 2"	4' 4"	4' 1"	4' 5"	4' 1"	4' 6"	3' 12"	4' 7"	3' 11"	4' 8"
4'	3' 12"	4' 0"	3' 12"	4' 0"	3' 11"	4' 1"	3' 11"	4' 1"	3' 11"	4' 1"	3' 11"	4' 2"	3' 10"	4' 2"	3' 9"	4' 3"	3' 8"	4' 5"
3' 9"	3' 9"	3' 9"	3' 9"	3' 9"	3' 9"	3' 9"	3' 8"	3' 10"	3' 8"	3' 10"	3' 8"	3' 10"	3' 7"	3' 11"	3' 6"	3' 12"	3' 6"	4' 1"
3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 6"	3' 5"	3' 7"	3' 5"	3' 7"	3' 5"	3' 7"	3' 4"	3' 8"	3' 4"	3' 8"	3' 3"	3' 10"
3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 3"	3' 4"	3' 2"	3' 4"	3' 2"	3' 4"	3' 2"	3' 4"	3' 1"	3' 5"	3' 0"	3' 6"