



# LEICA **SUMMARIT-M** 35 mm f/2.4 ASPH.

Technical Data.



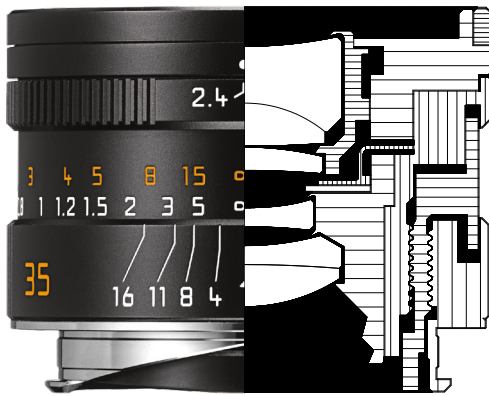
Illustration 1:1

<b>Lens</b>	<b>Leica Summarit-M 35 mm f/2.4 ASPH.</b>
Order number	Black anodized: 11 671 Silver anodized: 11 679
Angle of view (diagonal, horizontal, vertical)	For 35 mm (24 x 36 mm): 63°/54°/38°; for M8 (18 x 27 mm): 50°/42°/29°, equivalent focal length of approx. 47mm
Optical design	Number of elements/groups: 6/4 Position of entrance pupil in front of the bayonet: 20.5 mm Focusing range: 0.8 m to infinity
Distance setting	Scala: combined meter/feet-increments Smallest object field: for 35 mm: 433 x 733 mm, for M8: 366 x 550 mm Largest reproduction ratio: 1:20.4
Aperture	Setting/type: click stops, half steps Smallest aperture: f/16 Number of aperture blades: 9
Bayonet	Leica M quick-change bayonet
Filter thread	E46
Lens hood	Screw-on
Dimensions and weight	Length: approx. 33.9 mm (without lens hood) Largest diameter: approx. 52 mm Weight: approx. 197 g/210 g (without/with lens hood)



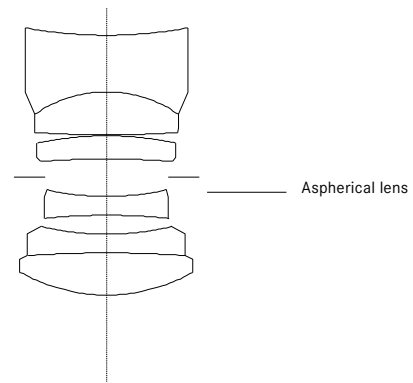
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ENGINEERING DRAWING



Illustrations 1:1

LENS SHAPE

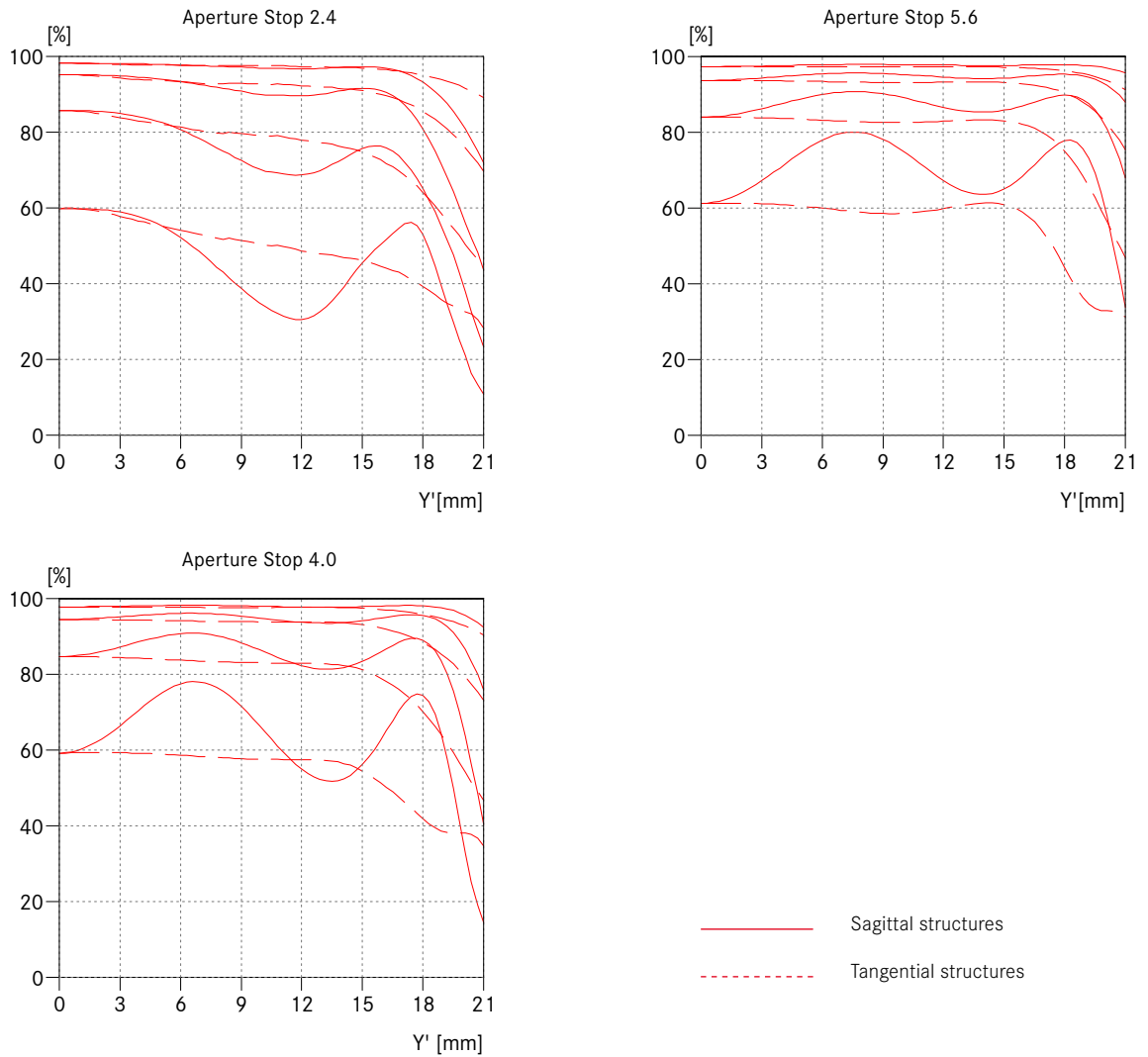


The Leica Summarit-M 35 mm f/2.4 ASPH. gives all users of rangefinder cameras with a Leica M bayonet access to the smallest and lightest 35 mm lens available. Special, high-refraction glass with anomalous partial dispersion guarantees a level of colour correction otherwise unattainable with standard glass types, resulting in outstanding image quality. As a genuine all-rounder, it is indispensable choice whenever you are putting together a new equipment configuration since it can deal effectively with all photographic situations - from vivid shots of people at medium range all the way to dramatic landscapes.



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## MTF DIAGRAMS



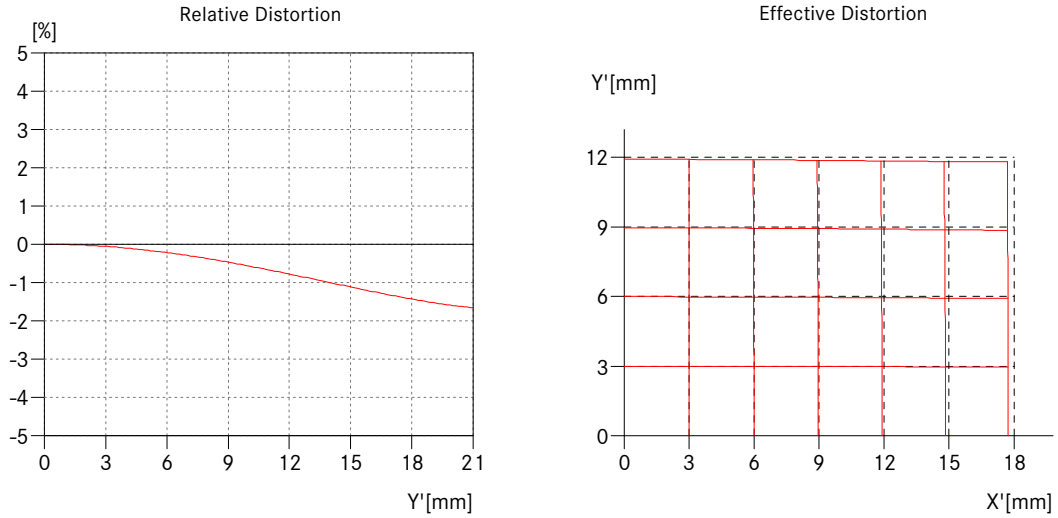
## MTF GRAPHS

The MTF is shown in each case for the maximum aperture and the aperture value 4.0 and 5.6 for long focusing distances (infinity). The contrast is plotted for 5, 10, 20, 40 lines/mm for the height of the format for tangential (dashed line) and sagittal structures (continuous line) for white light. The plots for 5 and 10 lines/mm provide an impression of the contrast performance for coarser object structures and the 20 and 40 lines/mm plots document the resolving power for fine and finest object structures.

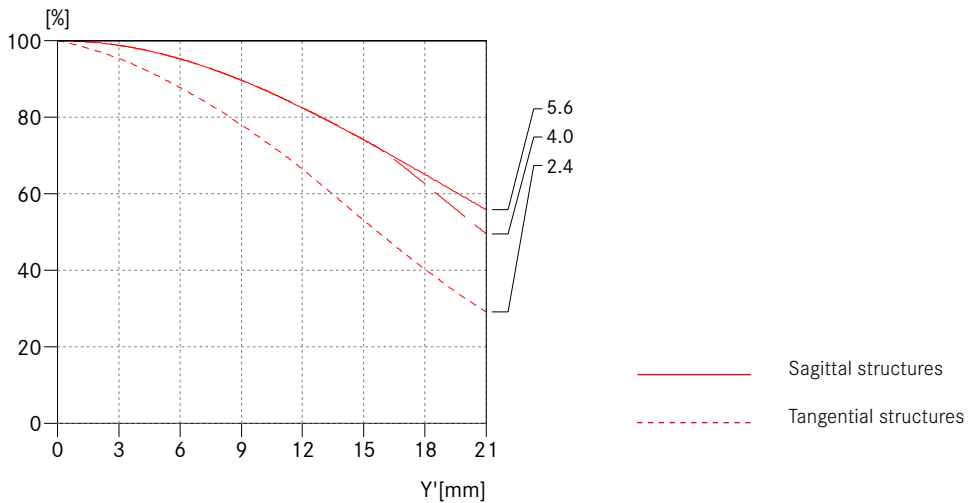


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## DISTORTION



## VIGNETTING



## DISTORTION

Distortion is the deviation of the real image height (in the picture) from the ideal image height. The relative distortion is the percentage deviation. The ideal image height results from the object height and the magnification. The image height of 21.6 mm is the radial distance between the edge and the middle of the image field for the format 24 mm x 36 mm. The graph of the effective distortion illustrates the appearance of straight horizontal and vertical lines in the picture.

## VIGNETTING

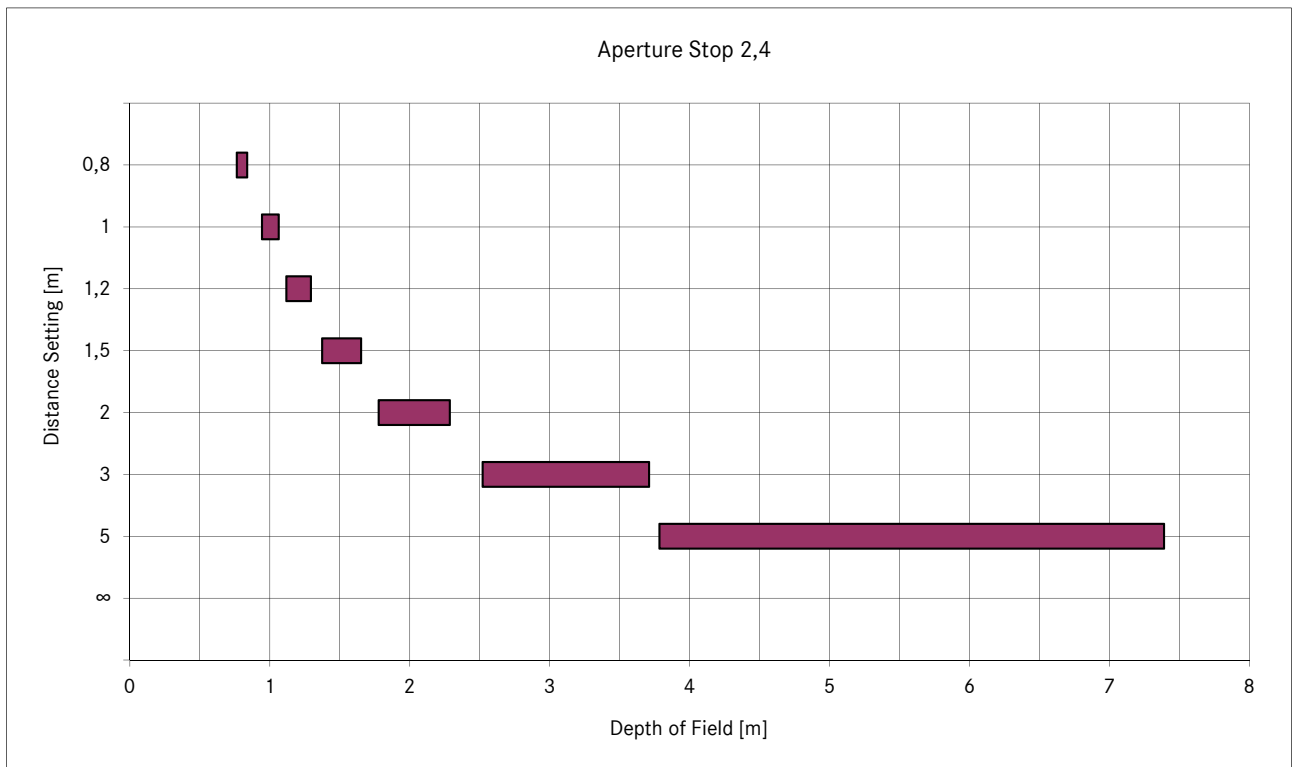
Vignetting is a continuous decrease of the illumination to the edges of the image field. The graph shows the percentage loss of illumination over the image height. 100% means no vignetting.



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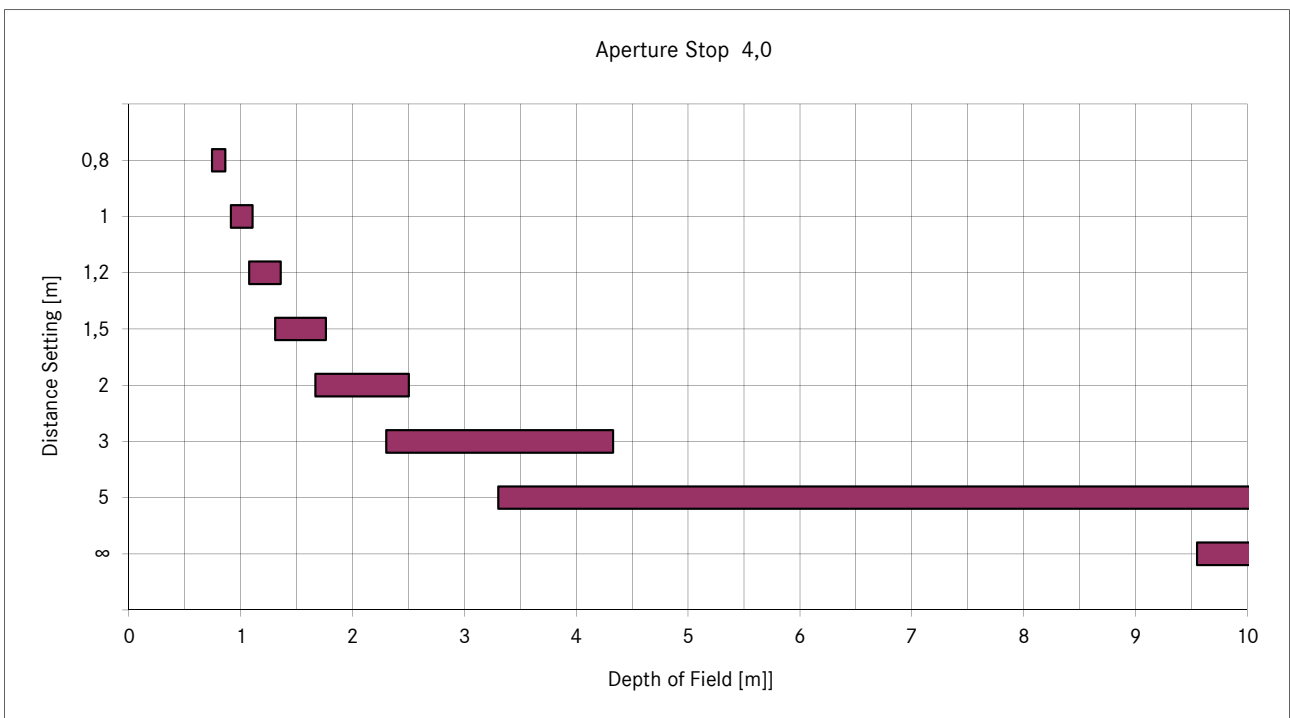
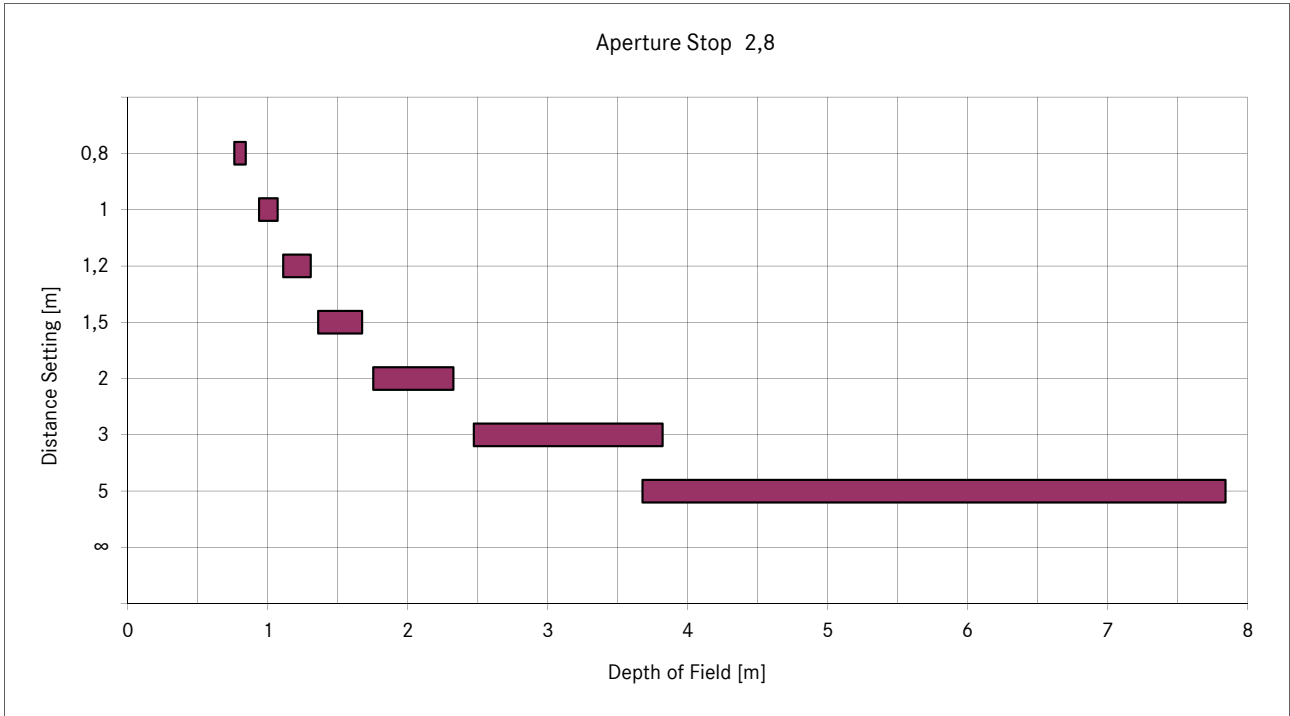
## DEPTH OF FIELD TABLE

		Aperture Stop							Magnification
		2.4	2.8	4.0	5.6	8.0	11.0	16.0	
Distance Setting [m]	0.8	0.765 - 0.839	0.761 - 0.844	0.745 - 0.864	0.726 - 0.893	0.698 - 0.940	0.666 - 1.01	0.620 - 1.15	1/20.4
	1	0.944 - 1.06	0.938 - 1.07	0.914 - 1.11	0.883 - 1.15	0.842 - 1.24	0.795 - 1.36	0.729 - 1.63	1/26
	1.2	1.12 - 1.29	1.11 - 1.31	1.08 - 1.36	1.03 - 1.43	0.976 - 1.57	0.913 - 1.77	0.825 - 2.28	1/31.7
	1.5	1.37 - 1.65	1.36 - 1.67	1.31 - 1.76	1.24 - 1.89	1.16 - 2.14	1.07 - 2.55	0.950 - 3.77	1/40.2
	2	1.78 - 2.29	1.75 - 2.33	1.67 - 2.50	1.56 - 2.79	1.43 - 3.36	1.30 - 4.53	1.12 - 10.9	1/54.3
	3	2.52 - 3.71	2.47 - 3.82	2.30 - 4.33	2.11 - 5.27	1.87 - 7.83	1.64 - 20.2	1.37 - ∞	1/82.5
	5	3.78 - 7.39	3.68 - 7.84	3.30 - 10.4	2.91 - 18.3	2.47 - ∞	2.08 - ∞	1.65 - ∞	1/139
	∞	15.3 - ∞	13.6 - ∞	9.55 - ∞	6.84 - ∞	4.80 - ∞	3.51 - ∞	2.43 - ∞	1/∞



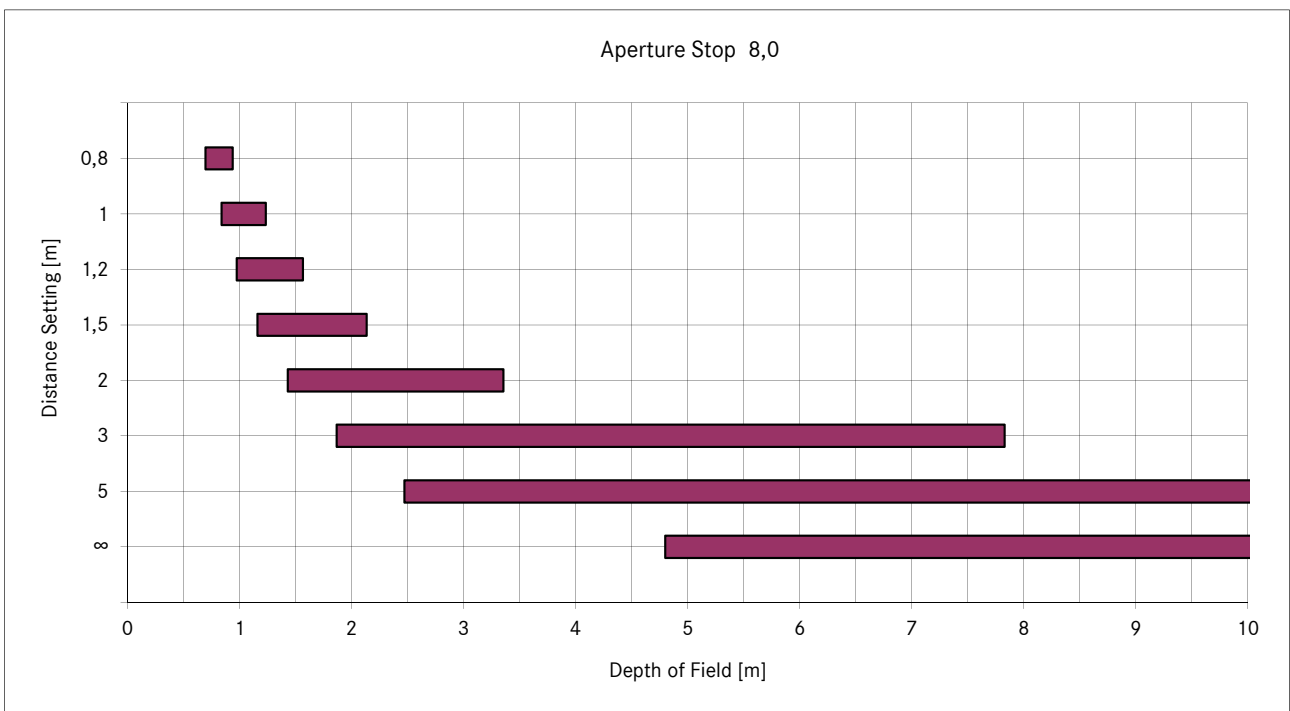
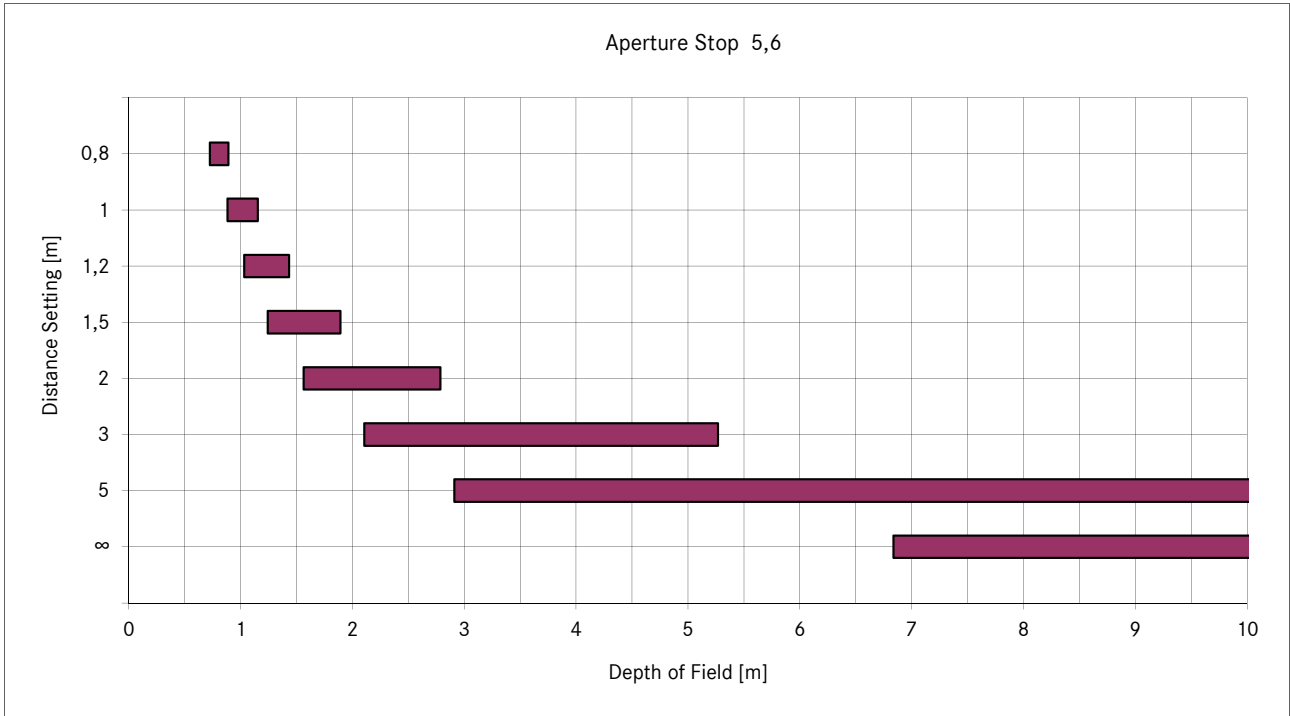


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