



徕卡 **SUMMILUX-M** 90 f/1.5 ASPH.镜头

技术参数



Illustration 1:1

镜头	徕卡 Summilux-M90 f/1.5 ASPH.镜头
货号	11 678
视角 (对角, 水平, 垂直)	35mm全画幅下 (24 x 36 mm): 约 27°/23°/15°, 徕卡M8画幅:约 21°/17°/11°
光学设计	镜片/组数量: 8/6 入瞳距:27,2mm 对焦范围: 1 米至无穷远
距离设置	标尺: 米和英尺 最小物场: 35 mm 全画幅: 约 211 x 317 mm; 徕卡M8机型: 约 158 x 238 mm 最大倍率: 1:8,8
光圈	设定/功能: 有级光圈, 含半级调整 最小光圈值: f/16 光圈叶片数: 11
卡口	徕卡 M 插刀式卡口
滤镜卡口	E67
镜头遮光罩	内置遮光罩
尺寸重量	长度: 约91/102 mm (含/不含遮光罩) 直径: 约74mm 重量: 约1010g



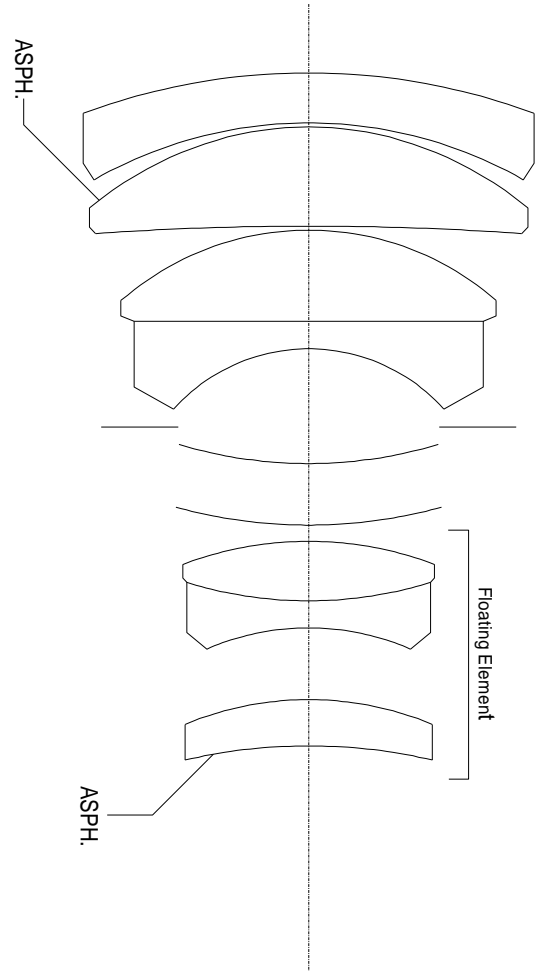
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ENGINEERING DRAWING



Illustrations 1:1

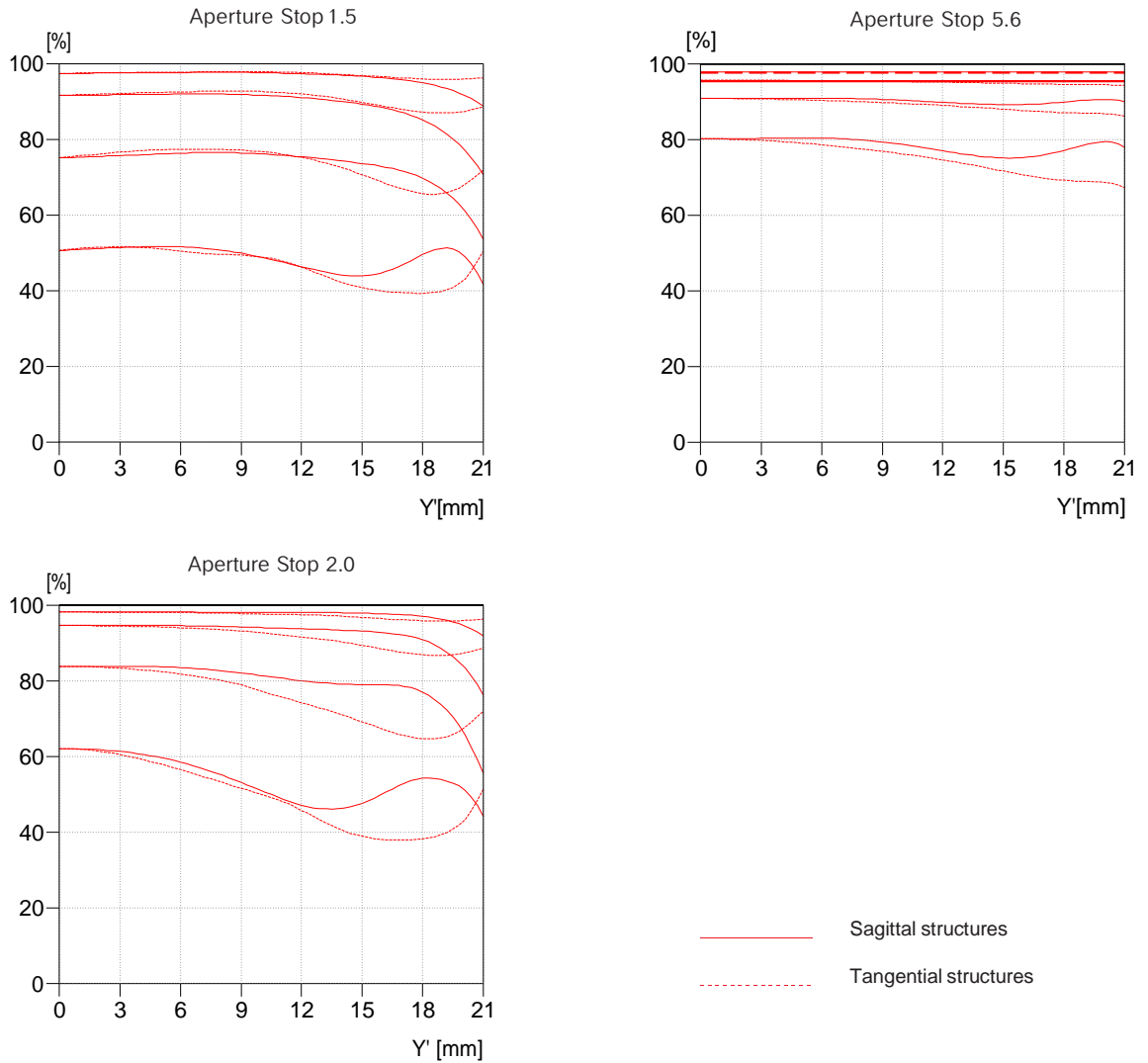
LENS SHAPE





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MTF-DIAGRAMS



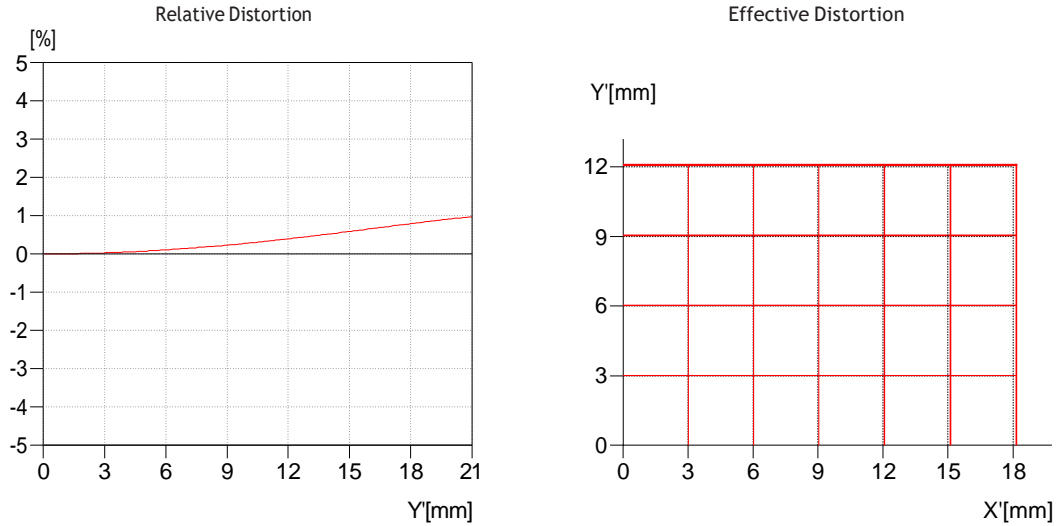
MTF GRAPHS

The MTF is shown in each case for the maximum aperture 1.25 and the aperture values 2.0 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.

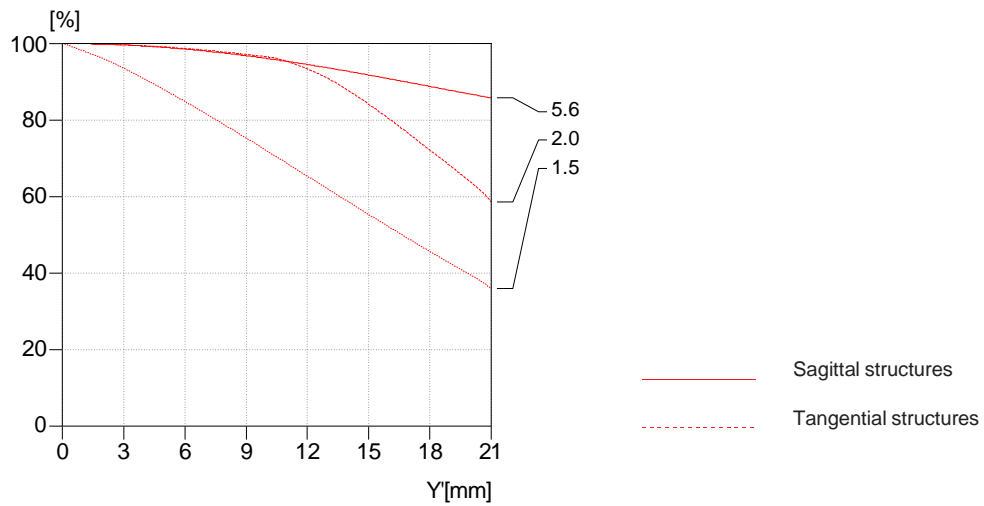


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DISTORTION



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 24mmx36mm. The graph of the effective distortion illustrates the appearance of straight horizontal and vertical lines in the picture.

VIGNETTING

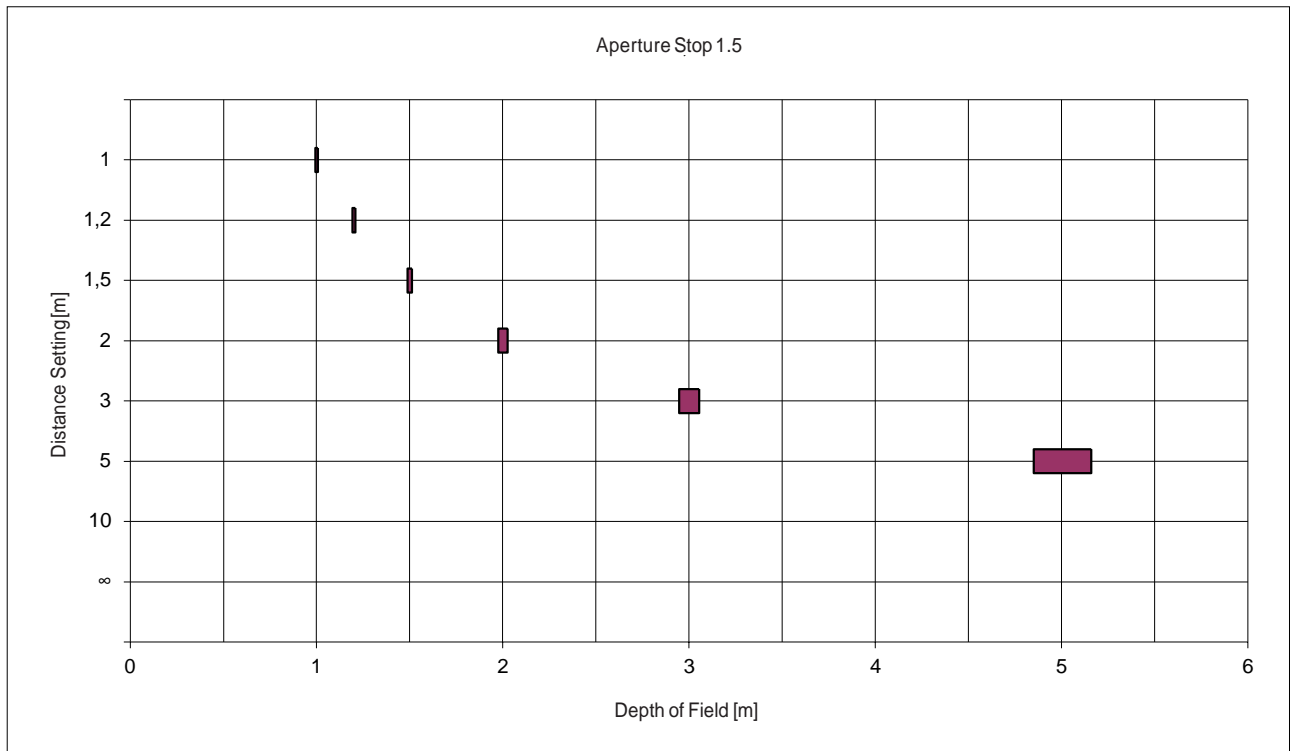
Vignetting is a continuous decrease of the illumination to the edges of the image field. The graph shows the percentage loss of illumination over the image height. 100% means no vignetting.



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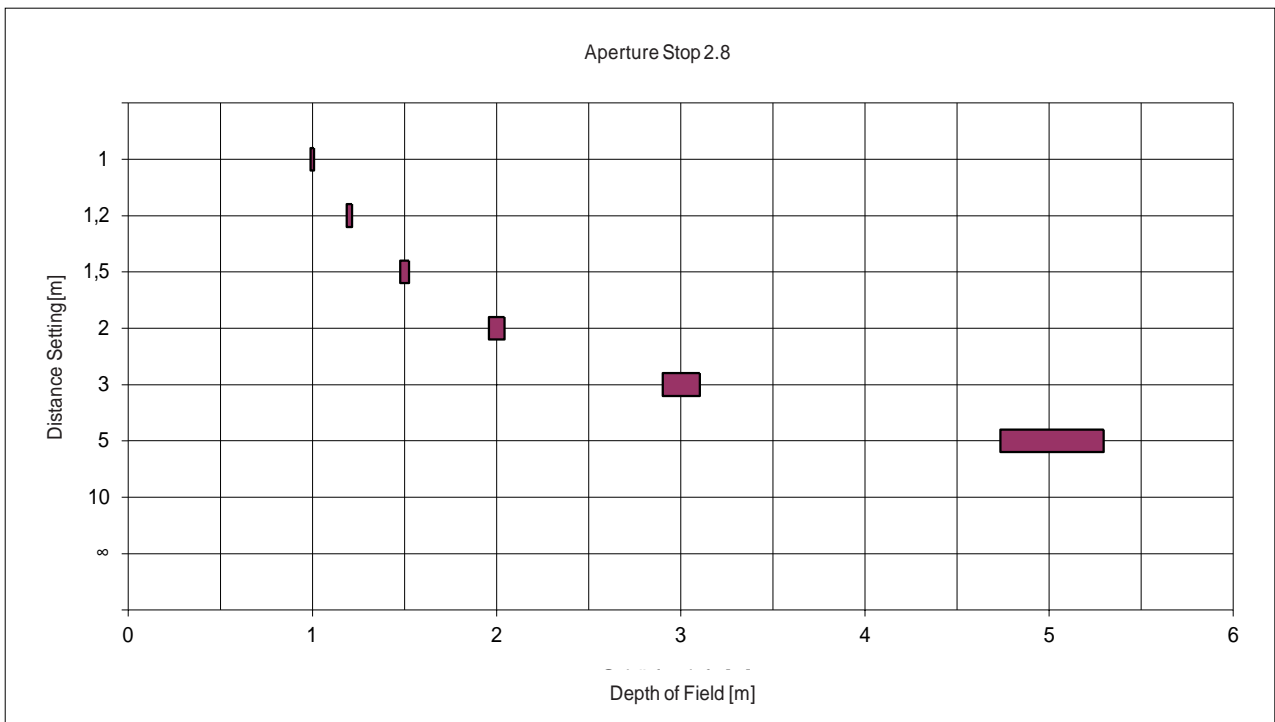
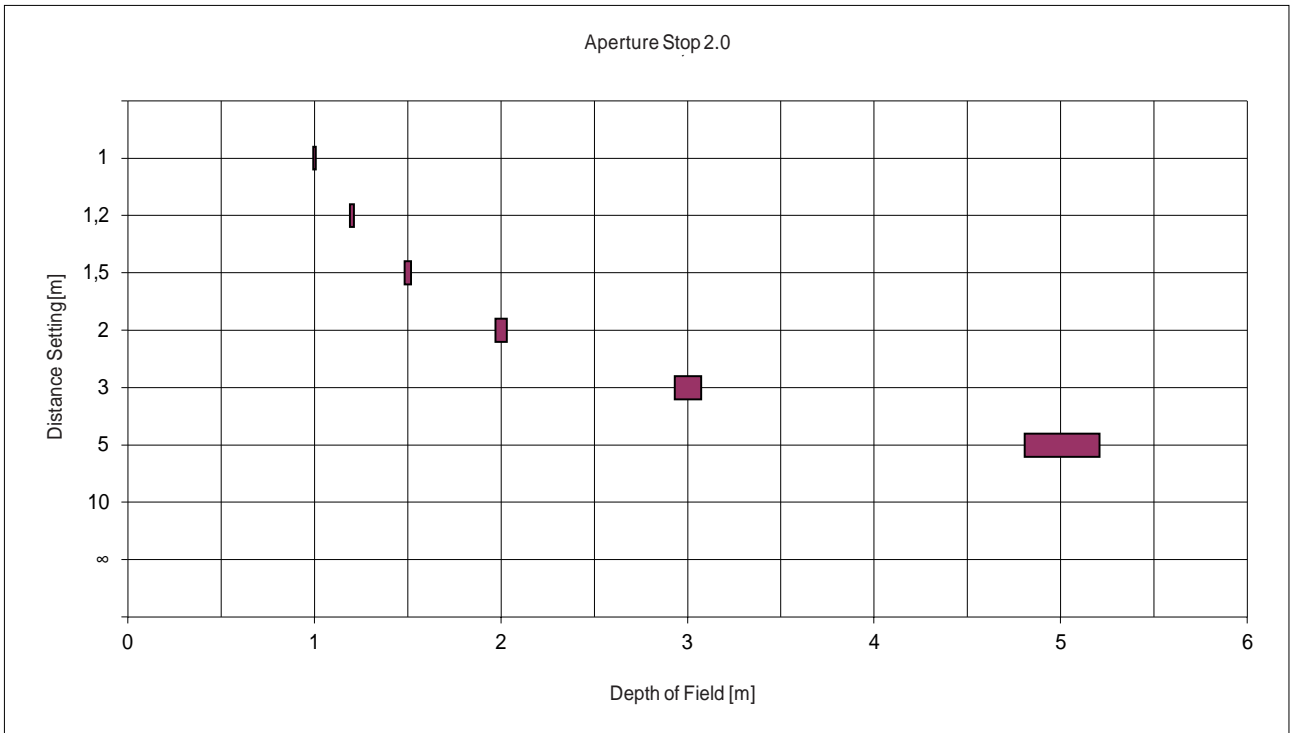
DEPTH OF FIELD TABLE

		Aperture Stop									Magnification
		1,50	2,0	2,8	4,0	5,6	8,0	11,0	16,0	16,0	
Distance Setting [m]	1	0,995 - 1,006	0,993 - 1,007	0,990 - 1,010	0,986 - 1,014	0,981 - 1,020	0,973 - 1,029	0,963 - 1,040	0,947 - 1,060	0,947 - 1,060	1/8,8
	1,2	1,192 - 1,208	1,190 - 1,211	1,186 - 1,215	1,180 - 1,221	1,172 - 1,230	1,160 - 1,243	1,145 - 1,260	1,122 - 1,290	1,122 - 1,290	1/11,1
	1,5	1,487 - 1,513	1,484 - 1,517	1,477 - 1,524	1,467 - 1,534	1,455 - 1,549	1,436 - 1,571	1,413 - 1,599	1,377 - 1,648	1,377 - 1,648	1/14,4
	2	1,977 - 2,024	1,970 - 2,031	1,958 - 2,044	1,941 - 2,063	1,918 - 2,090	1,885 - 2,131	1,845 - 2,185	1,782 - 2,281	1,782 - 2,281	1/20
	3	2,947 - 3,056	2,931 - 3,072	2,904 - 3,103	2,865 - 3,149	2,814 - 3,213	2,741 - 3,314	2,656 - 3,449	2,525 - 3,703	2,525 - 3,703	1/31,2
	5	4,851 - 5,159	4,808 - 5,209	4,734 - 5,298	4,629 - 5,437	4,496 - 5,634	4,310 - 5,958	4,098 - 6,421	3,788 - 7,377	3,788 - 7,377	1/53,6
	10	9,413 - 10,67	9,25 - 10,88	8,979 - 11,29	8,602 - 11,94	8,147 - 12,95	7,548 - 14,8	6,914 - 18,13	6,067 - 28,83	6,067 - 28,83	1/109,5
	∞	158,4 - ∞	121,5 - ∞	86,758 - ∞	60,74 - ∞	43,40 - ∞	30,40 - ∞	22,12 - ∞	15,23 - ∞	15,23 - ∞	1/∞



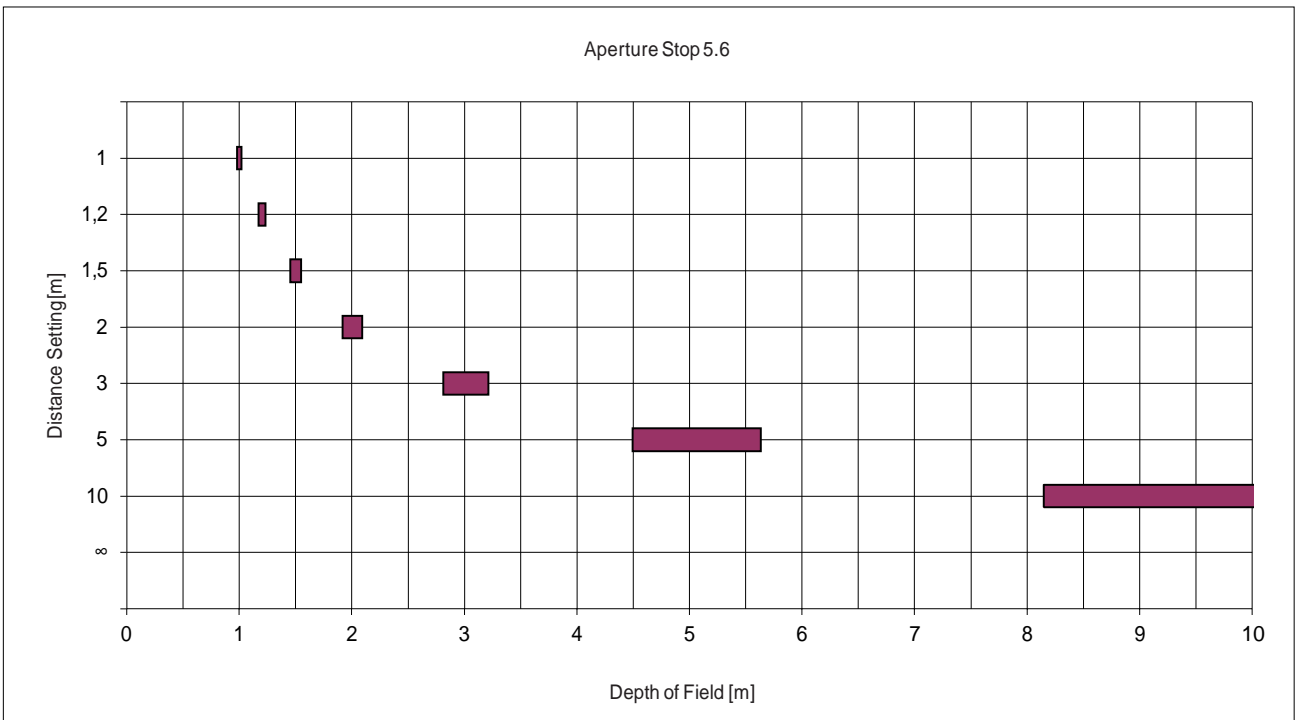
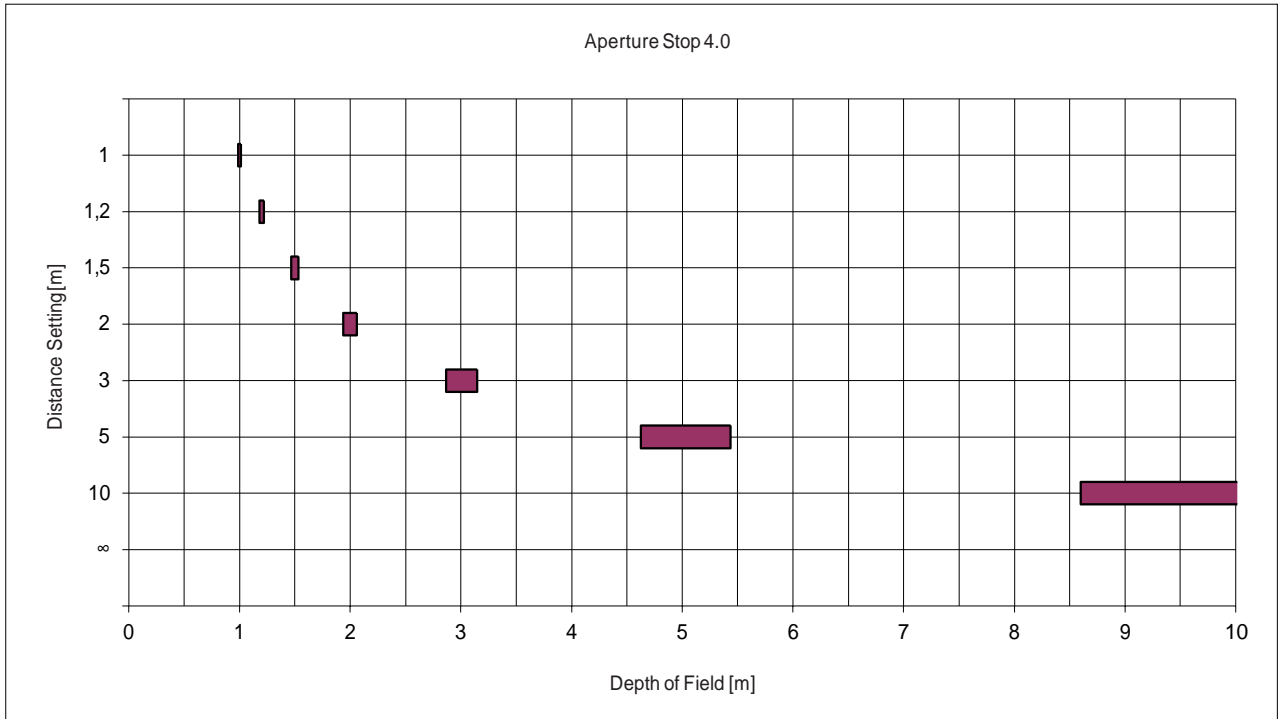


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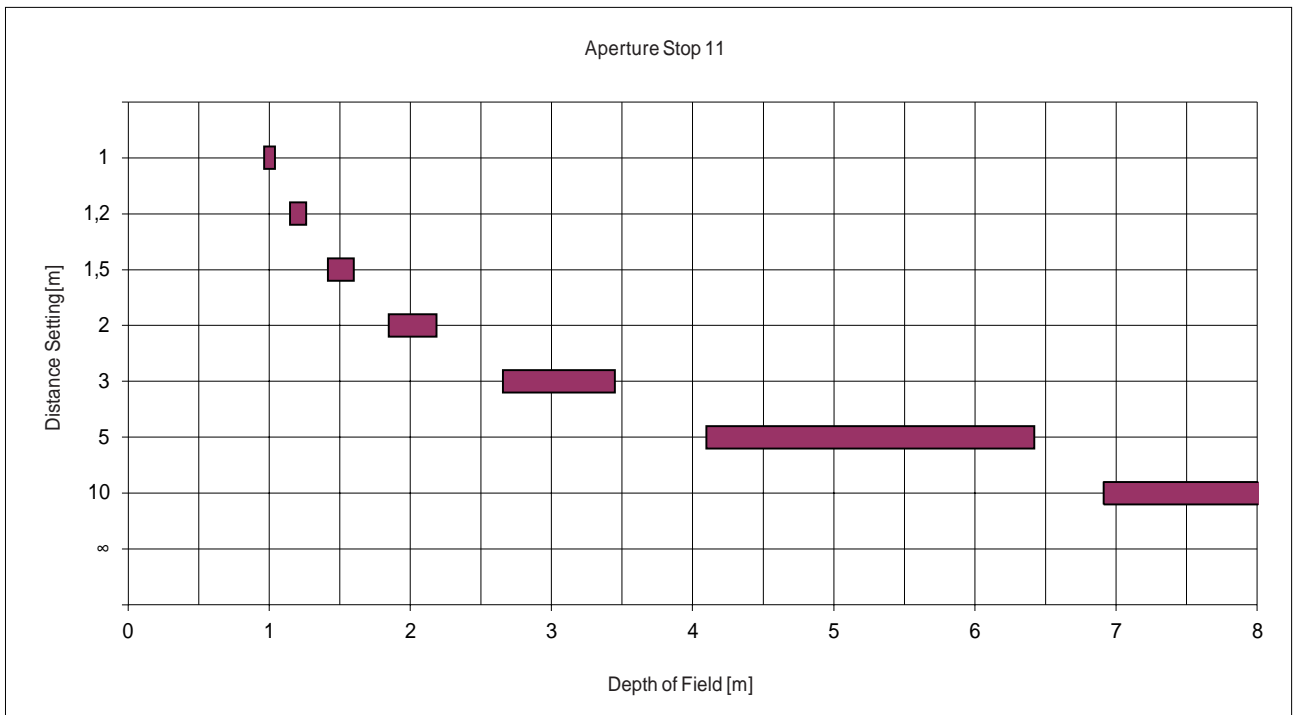
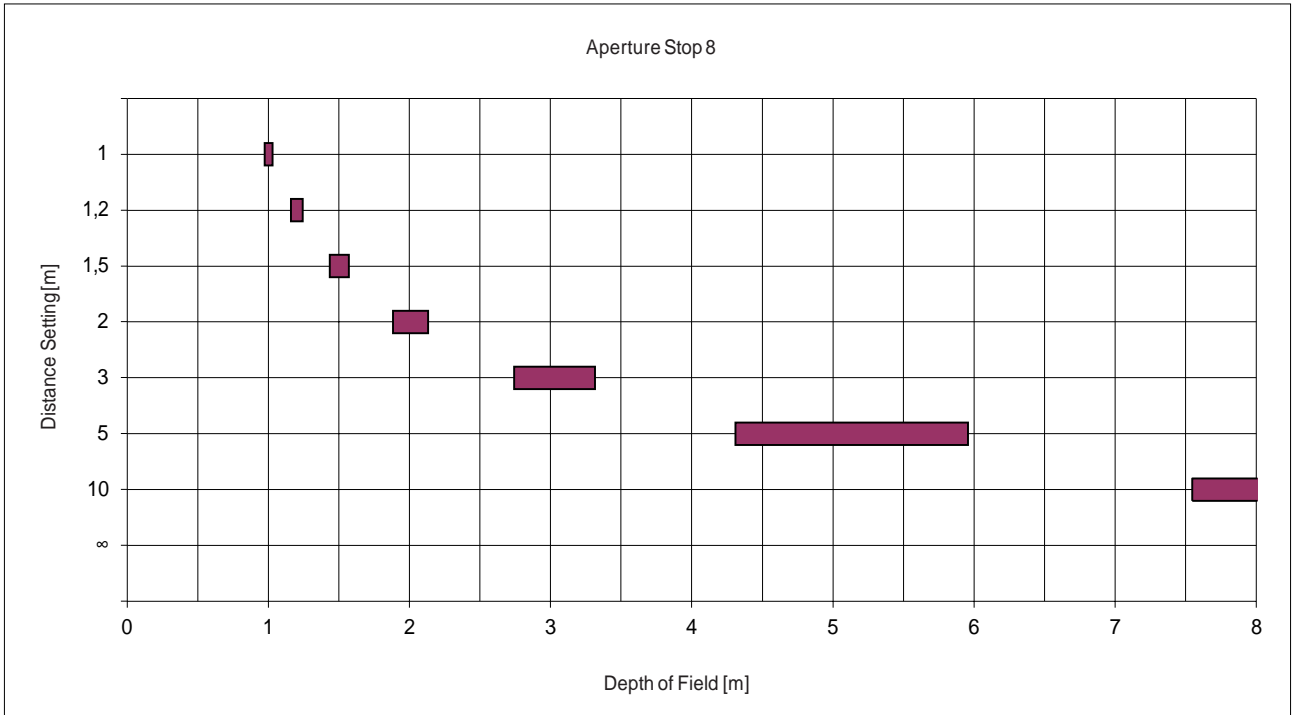


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