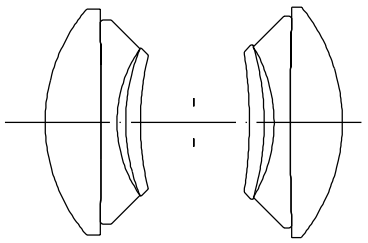
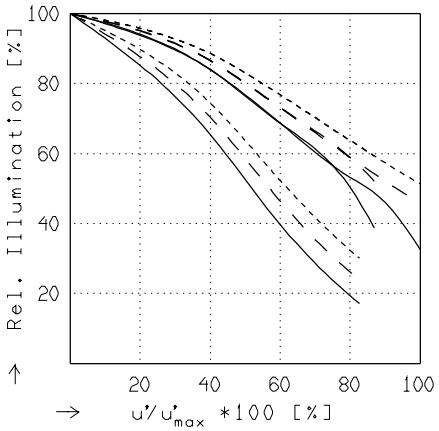
APO-SYMMAR 5.6/210

f' = 209.6 mm	β'_P = 0.996		
s_F = -172.1 mm	s_{EP} = 38.3 mm		
s'_F = 170.9 mm	s'_{AP} = -37.9 mm		
HH' = -5.8 mm	Σ d = 70.4 mm		



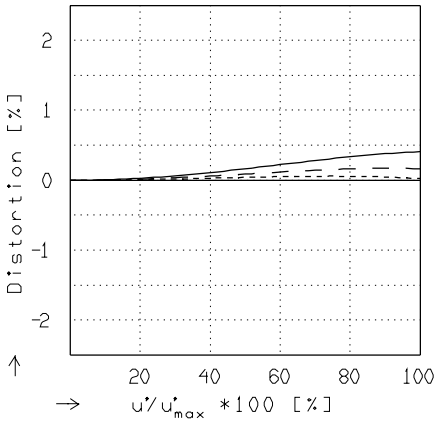


RELATIVE ILLUMINATION

The relativ illumination is shown for the given focal distances or magnifications.

f / 5.6 f / 11.0 f / 22.0

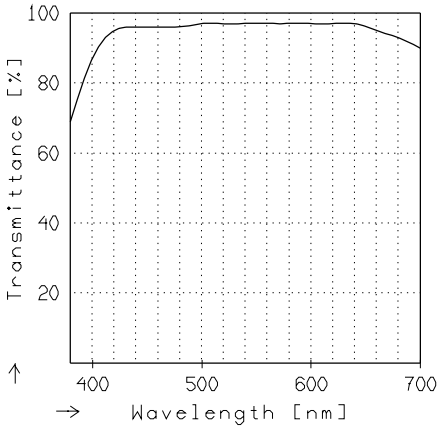
—— β' = 0.0000 u'_{max} = 153.1 ω' = ∞
— — β' = -0.1000 u'_{max} = 152.8 ω' = 2530.
----- β' = -0.2000 u'_{max} = 152.5 ω' = 1503.



DISTORTION

Distortion is shown for the given focal distances or magnifications. Positive values indicate pincushion distortion and negative values barrel distortion.

—— β' = 0.0000 u'_{max} = 153.1 ω' = ∞
— — β' = -0.1000 u'_{max} = 152.8 ω' = 2530.
----- β' = -0.2000 u'_{max} = 152.5 ω' = 1503.



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

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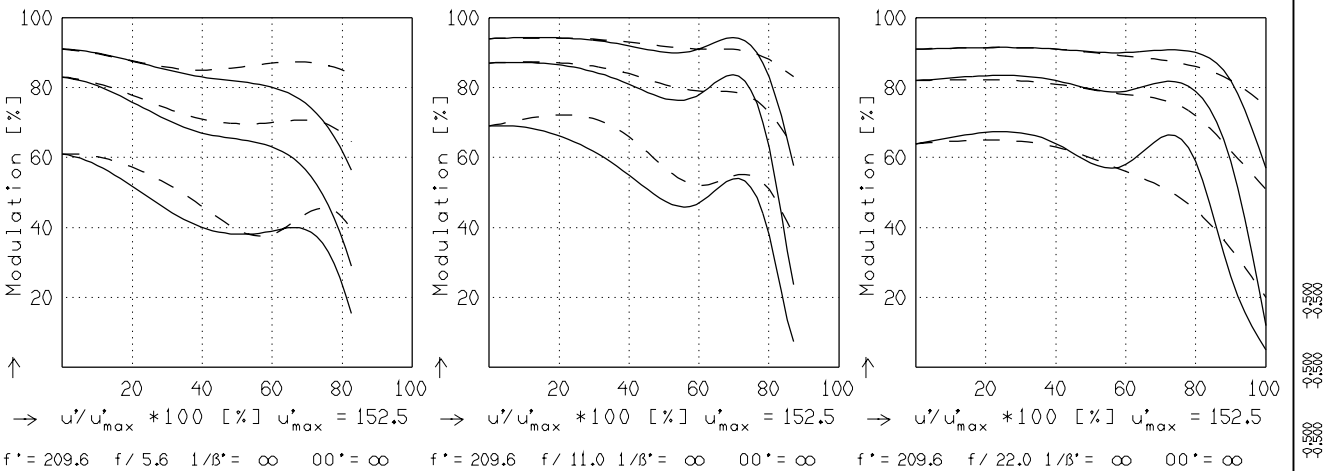
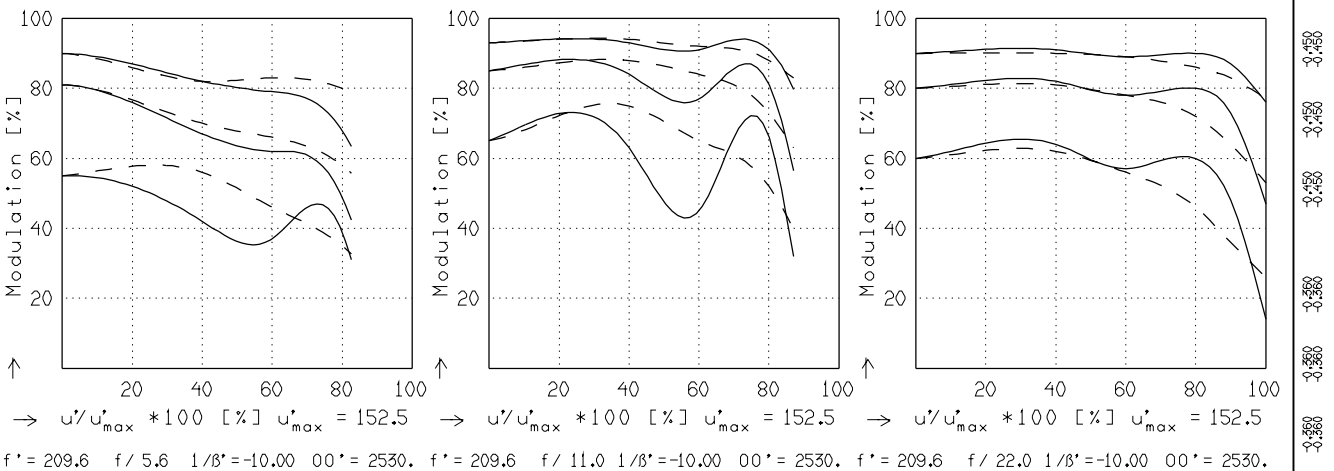
MODULATION with reference to the relative image height

Wavelength λ [nm] :	546	644	588	480	436	405
Spectral weighting [%] :	24.6	18.6	22.1	12.4	15.2	7.1
Spatial frequency R [1/mm] :	5	10	20			
Image-Ø f /5.6 [mm] :	252.2					
Image-Ø f /22.0 [mm] :	305.0					

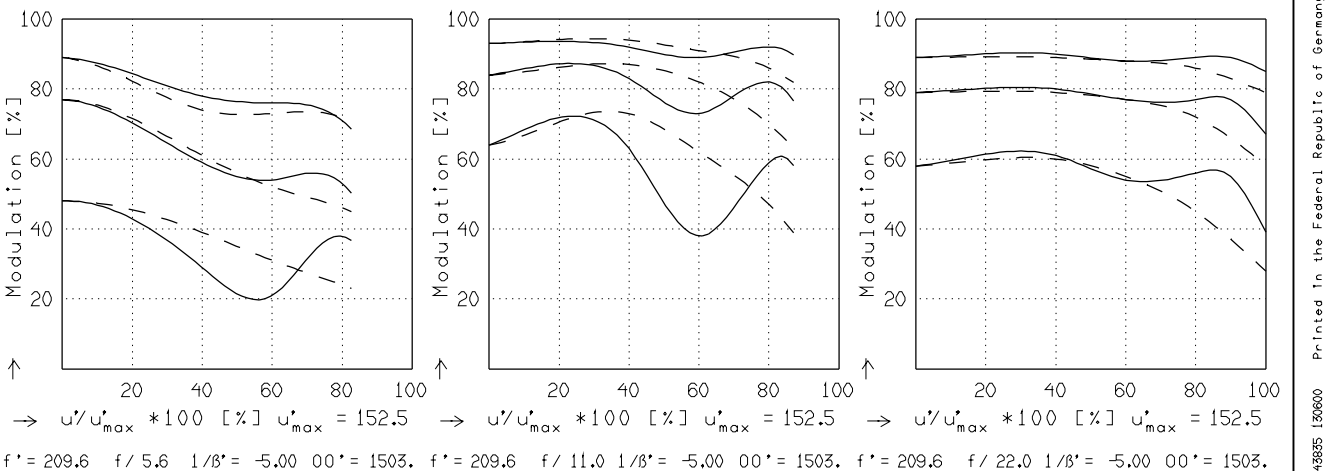
radial ——
tangential — —



f' = 209.6 f/ 5.6 1/ß' = ∞ OO' = ∞ | f' = 209.6 f/ 11.0 1/ß' = ∞ OO' = ∞ | f' = 209.6 f/ 22.0 1/ß' = ∞ OO' = ∞



f' = 209.6 f/ 5.6 1/ß' = -10.00 OO' = 2530. | f' = 209.6 f/ 11.0 1/ß' = -10.00 OO' = 2530. | f' = 209.6 f/ 22.0 1/ß' = -10.00 OO' = 2530.



f' = 209.6 f/ 5.6 1/ß' = -5.00 OO' = 1503. | f' = 209.6 f/ 11.0 1/ß' = -5.00 OO' = 1503. | f' = 209.6 f/ 22.0 1/ß' = -5.00 OO' = 1503.

Focusing : MTF_{max} at f / 5.6 , R = 20 1/mm, u'/u'_{max} = 0

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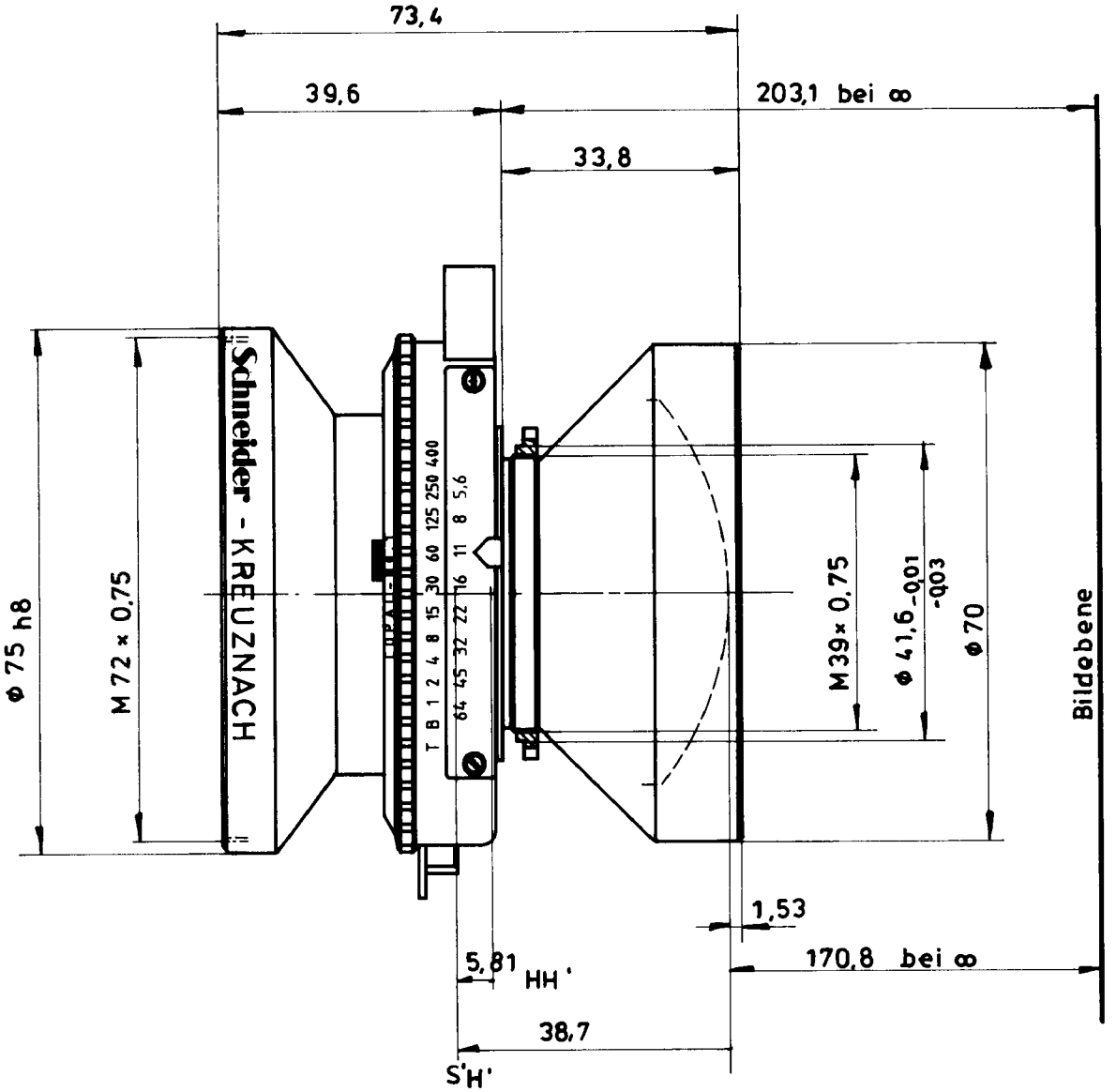
73,4
39,6
203,1 bei ∞
33,8
Schneider - KREUZNACH
T B 1 2 4 8 15 30 60 125 250 400
64 45 32 22 16 11 8 5,6
ϕ 75 h8
M 72 × 0,75
M 39× 0,75
ϕ 41,6 -0,01 -0,03
ϕ 70
Bildebene
1,53
170,8 bei ∞
5,81
HH'
38,7
S'H'