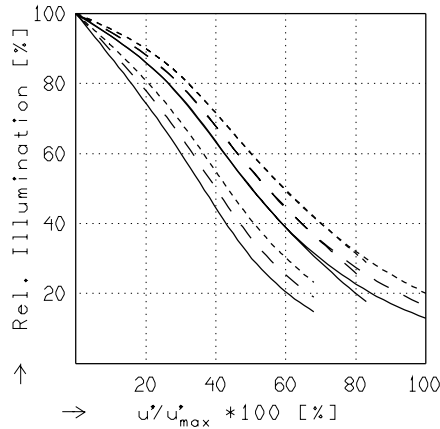
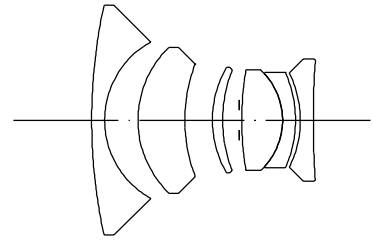


SUPER-SYMMAR XL 4.5/80 ASPH.

$f' = 81.0 \text{ mm}$ $\beta_p = 1.013$
 $s_F = -59.9 \text{ mm}$ $s_{EP} = 20.0 \text{ mm}$
 $s_{F'} = 72.9 \text{ mm}$ $s_{AP} = -9.1 \text{ mm}$
 $HH' = 13.9 \text{ mm}$ $\Sigma d = 43.0 \text{ mm}$

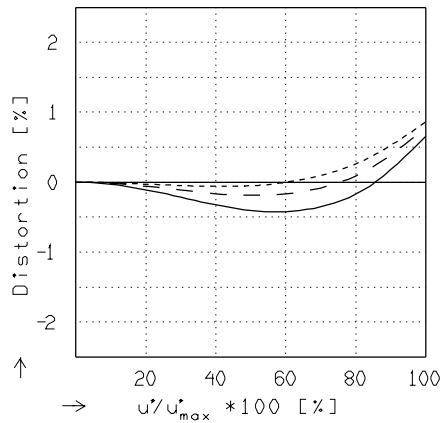


RELATIVE ILLUMINATION

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

$f / 4.5$ $f / 8.0$ $f / 22.0$

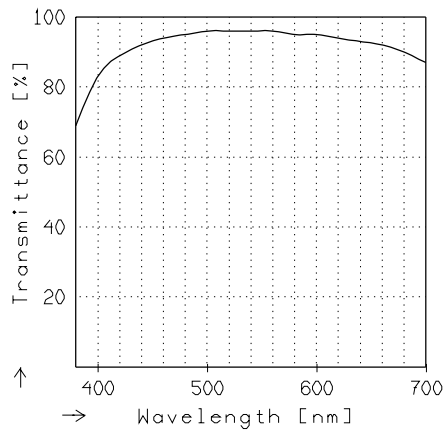
— $\beta' = 0.0000$ $u'_{max} = 106.7$ $00' = \infty$
 - - $\beta' = -0.1000$ $u'_{max} = 106.8$ $00' = 994.$
 - · - $\beta' = -0.2000$ $u'_{max} = 106.9$ $00' = 597.$



DISTORTION

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

— $\beta' = 0.0000$ $u'_{max} = 106.7$ $00' = \infty$
 - - $\beta' = -0.1000$ $u'_{max} = 106.8$ $00' = 994.$
 - · - $\beta' = -0.2000$ $u'_{max} = 106.9$ $00' = 597.$



TRANSMITTANCE

Relative spectral transmittance is shown with reference to wavelength.

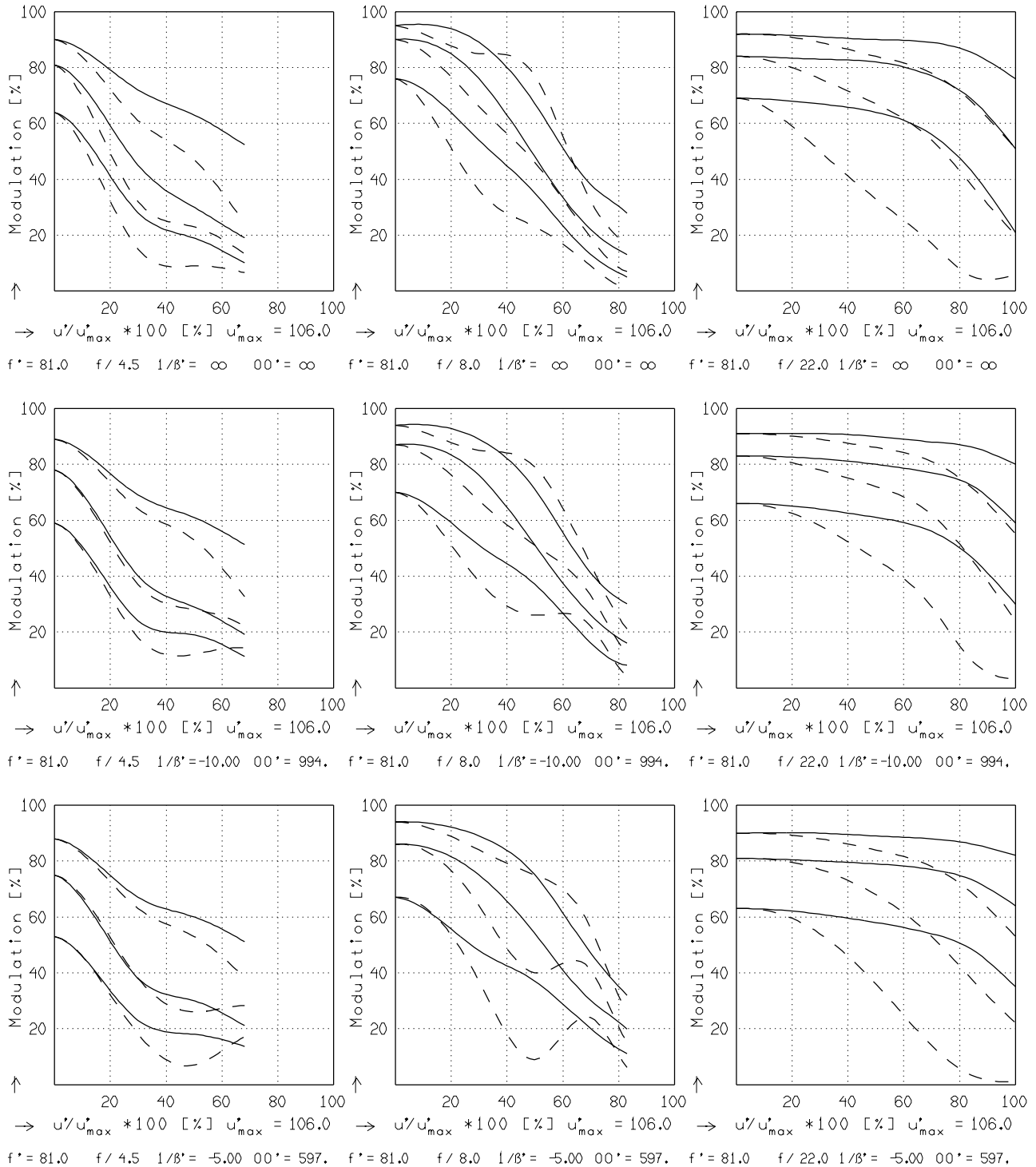
Jos. Schneider Optische Werke GmbH
 Ringstrasse 132 55543 Bad Kreuznach Germany

SUPER-SYMMAR XL 4.5/80 ASPH.

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			
Format	[mm X mm]	90.0	X120.0				
Diagonal $2u'$	[mm]	212.0					

radial —
tangential - -



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