

CAMERA CALIBRATION CERTIFICATE

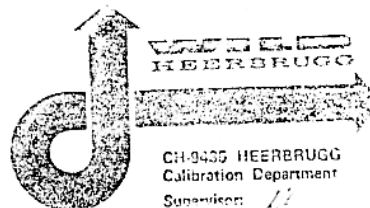
CAMERA TYPE : RC20

LENS TYPE : 30/4 NATA-F

LENS NO. : 17024

CALIBRATION DATE : 15.07.88

WILD HEERBRUGG LTD



## CAMERA CALIBRATION

CAMERA: RC20 LENS: 30/4 NATA-F NO.: 17024 CALIBRATION DATE: 15.07.88

APERTURE : F / 4.0  
 FILTER ON GONIOMETER : VIS (400 - 700 NM)  
 FILTER ON CAMERA : --  
 PRINCIPAL DISTANCE FOR FOCUSSING DISTANCE 850 M : 303.75 MM

## RADIAL DISTORTION (MICROMETERS)

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 REFERRED TO PRINCIPAL POINT OF SYMMETRY (PPS)  
 (POSITIVE VALUES DENOTE IMAGE DISPLACEMENT AWAY FROM CENTER)

RADIUS ( $\mu$ M)	SEMI - DIAGONALS				MEAN
	1	3	2	4	
10	-0.4	1.1	0.7	0.3	0.4
20	0.4	1.1	1.1	0.6	0.8
30	0.8	1.7	0.9	0.9	1.0
40	1.2	0.6	2.0	1.2	1.2
50	1.2	1.0	2.6	0.9	1.4
60	1.3	0.6	2.1	0.2	1.0
70	0.8	0.6	1.4	-0.1	0.6
80	-0.5	0.2	0.8	-0.3	0.0
90	-0.4	-0.3	-0.4	-0.1	-0.2
100	-0.5	-0.3	0.6	0.0	0.0
110	-0.2	0.0	0.2	0.0	0.0
120	-0.7	0.5	1.2	0.5	0.3
130	-0.2	-0.3	0.1	0.4	0.0
140	-0.9	-1.0	-0.6	0.0	-0.6
148	-1.8	-2.8	-2.7	-1.1	-2.1

## PHOTOGRAPHIC RESOLUTION (LINE PAIRS PER MILLIMETER)

INTERNATIONAL 3-LINE TEST-CHART, CONTRAST (LOG) : 2.0

APERTURE : 4.0  
 FILTER : 450 NM  
 FILM : AGFAPAN 25 PROFESSIONAL (ASA SPEED: 25)  
 DEVELOPER : KODAK HC110 PREPARATION 2 SOLUTION C

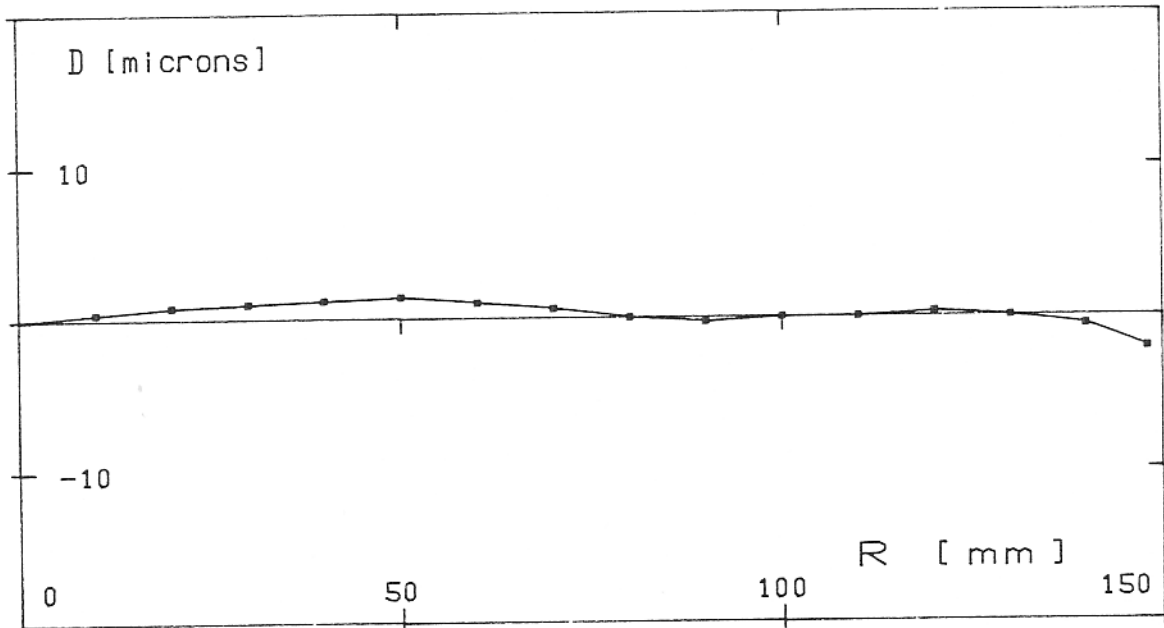
ANGLE: (DEGREES)	0	5	10	15	20	25
RAD.	67	75	59	46	56	48
TANG.	67	74	51	44	53	55

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 53

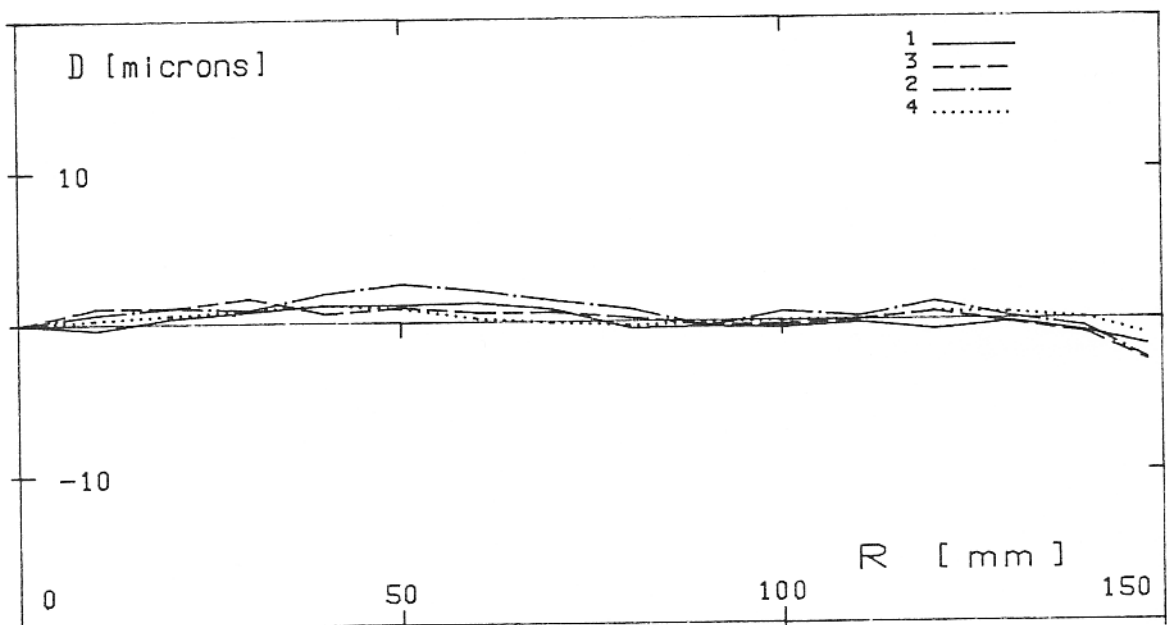


RC20 30/4 NATA-F NO. 17024 15.07.88

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FILTER ON GONIOMETER : VIS (400 - 700 NM)  
FILTER ON CAMERA : --  
P.D. ( 850 m ) : 303.75 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS