

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC20
LENS TYPE : 30/4 NATA-F
LENS NO. : 17027

CALIBRATION DATE : 20.10.89

WILD LEITZ LTD

Wild Leitz Ltd
CH-9435 Heerbrugg
Calibration Department
Supervisor:

 **WILD LEITZ**



CAMERA CALIBRATION

CAMERA: RC20 LENS: 30/4 NATA-F NO.: 17027 CALIBRATION DATE: 20.10.89

APERTURE : F / 4.0
 FILTER ON GONIDMETER : VIS (400 - 700 NM)
 FILTER ON CAMERA : --
 PRINCIPAL DISTANCE FOR FOCUSSING DISTANCE 850 M : 303.98 MM

RADIAL DISTORTION (MICROMETERS)

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

RADIUS MM	SEMI - DIAGONALS				MEAN
	1	3	2	4	
10	-0.3	0.0	0.0	-0.8	-0.2
20	0.4	-0.7	0.6	-0.9	-0.1
30	-0.4	-0.2	0.1	-0.6	-0.2
40	-0.3	-1.2	0.8	-0.7	-0.3
50	0.0	-2.1	1.4	-1.5	-0.5
60	-0.1	-2.2	0.6	-2.1	-0.9
70	-0.8	-2.4	0.1	-2.1	-1.3
80	-1.7	-2.0	-0.9	-2.1	-1.6
90	-1.4	-2.5	-1.4	-2.0	-1.8
100	-1.3	-1.8	0.0	-1.2	-1.0
110	0.2	-0.4	0.7	0.0	0.1
120	-0.3	1.1	0.7	1.3	0.7
130	1.4	1.7	0.9	2.1	1.5
140	1.1	2.1	1.3	2.5	1.7
148	1.0	1.1	-0.2	0.7	0.8

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 : AGFA-GEVAERT STUDIOINAL LIQUID 1:15 6 MIN

ANGLE: (DEGREES)	0	5	10	15	20	25
RAD.	67	67	66	46	50	48
TANG.	67	67	58	49	53	55

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 54



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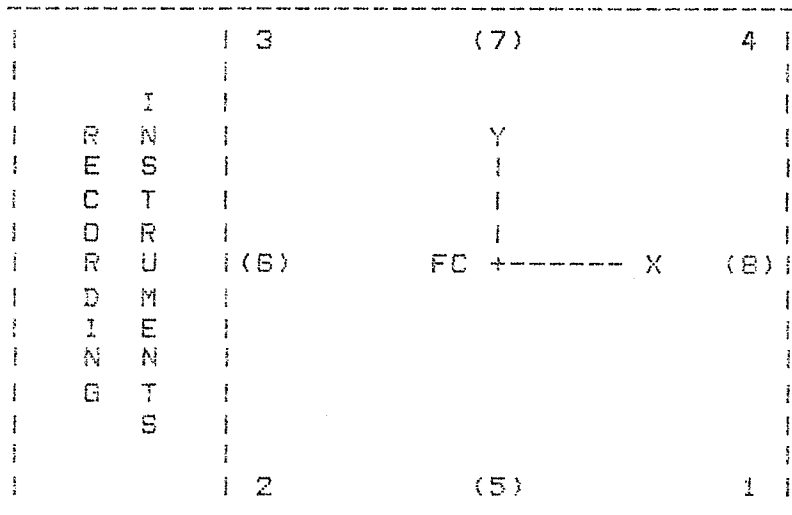
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.000	0.003
SPS	-0.012	0.006

FIDUCIAL MARKS, REFERRED TO FC

	X (MM)	Y (MM)		X (MM)	Y (MM)
1	105.998	-105.998	5	0.001	-109.997
2	-106.002	-106.003	6	-109.999	-0.001
3	-106.001	106.003	7	-0.001	110.004
4	105.998	105.999	8	109.990	-0.001

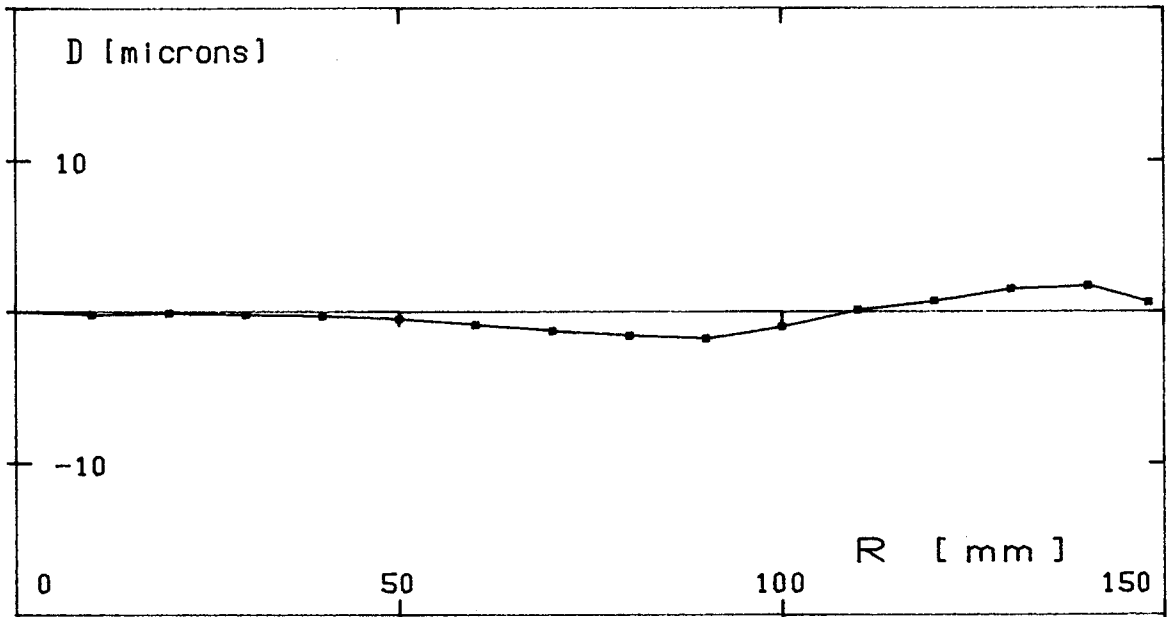


AS SEEN ON FOCAL PLANE FRAME

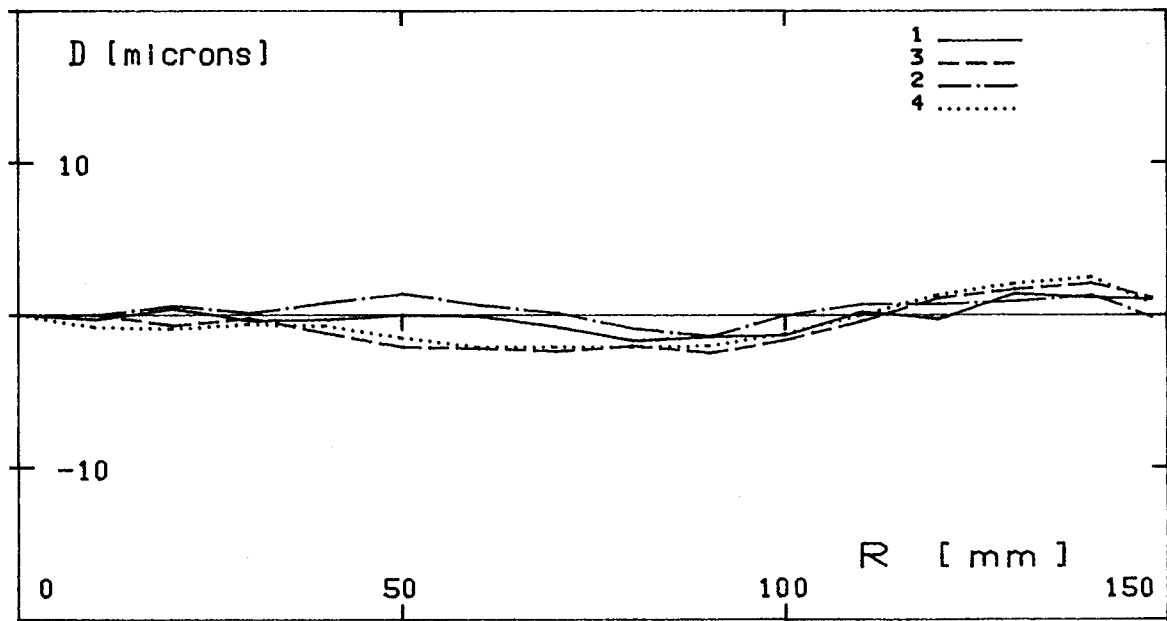


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APERTURE : F / 4.0
FILTER ON GONIOMETER : VIS (400 - 700 NM)
FILTER ON CAMERA : --
P.D. (850 m) : 303.98 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS