CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC10

LENS TYPE : 30 AT II

LENS NO. : 4117

CALIBRATION DATE : 29.11.89

WILD LEITZ LTD

Wild Leitz Ltd
CH-9435 Heerbrugg
Calibration Department
Supervisor:

WILD LEITZ

CAMERA CALIBRATION

CAMERA: RC10 LENS: 30 AT II NO.: 4117 CALIBRATION DATE: 29.11.89

APERTURE : F / 4.0
FILTER ON GONIOMETER : 450 NM
FILTER ON CAMERA : --
PRINCIPAL DISTANCE FOR FOCUSSING DISTANCE 850 M : 305.02 MM

RADIAL DISTORTION (MICROMETERS)

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

RADIUS	SEMI - DIAGONALS				MEAN
MM	1	3	2	4	
10	-1.8	-2.6	-2.1	-2.5	-2.2
20	-3.4	-4.2	-3.4	-3.9	-3.7
30	-5.3	-4.7	-4.8	-4.8	-4.9
40	-6.0	-4.2	-5.9	-4.3	-5.1
50	-5.2	-4.2	-5.3	-4.0	-4.6
60	-4.6	-1.7	-3.8	-2.1	-3.0
70	-2.7	0.5	-3.3	0.5	-1.2
80	-1.4	2.9	-1.1	2.8	0.8
90	0.6	4.1	0.0	3.3	2.0
100	1.8	4.0	1.5	4.1	2.8
110	1.4	3.1	0.9	3.0	2.1
120	0.6	0.7	-0.7	0.1	0.1
130	0.0	-1.5	-1.0	-1.9	-1.1
140	1.8	-0.9	0.8	-2.5	-0.2
148	6.6	3.3	5.6	1.6	4.2

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.	84	84	52	36	40	21
TANG.	84	84	73	49	37	22

AWAR (AREA WEIGHTED AVERAGE RESOLUTION) IN LP/MM : 46

CAMERA CALIBRATION

CAMERA: RC10 LENS: 30 AT II NO.: 4117 CALIBRATION DATE: 29.11.89

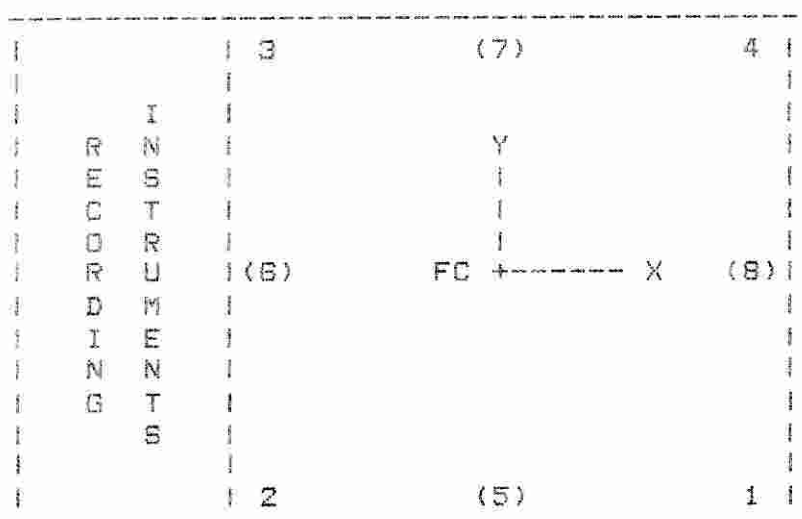
PRINCIPAL POINT OF AUTOCOLLIMATION (PPA) AND
PRINCIPAL POINT OF SYMMETRY (PPS)

REFERRED TO FC, SEE DIAGRAM

	X (MM)	Y (MM)
PPA	0.002	-0.003
S	0.024	0.011

FIDUCIAL MARKS, REFERRED TO FC

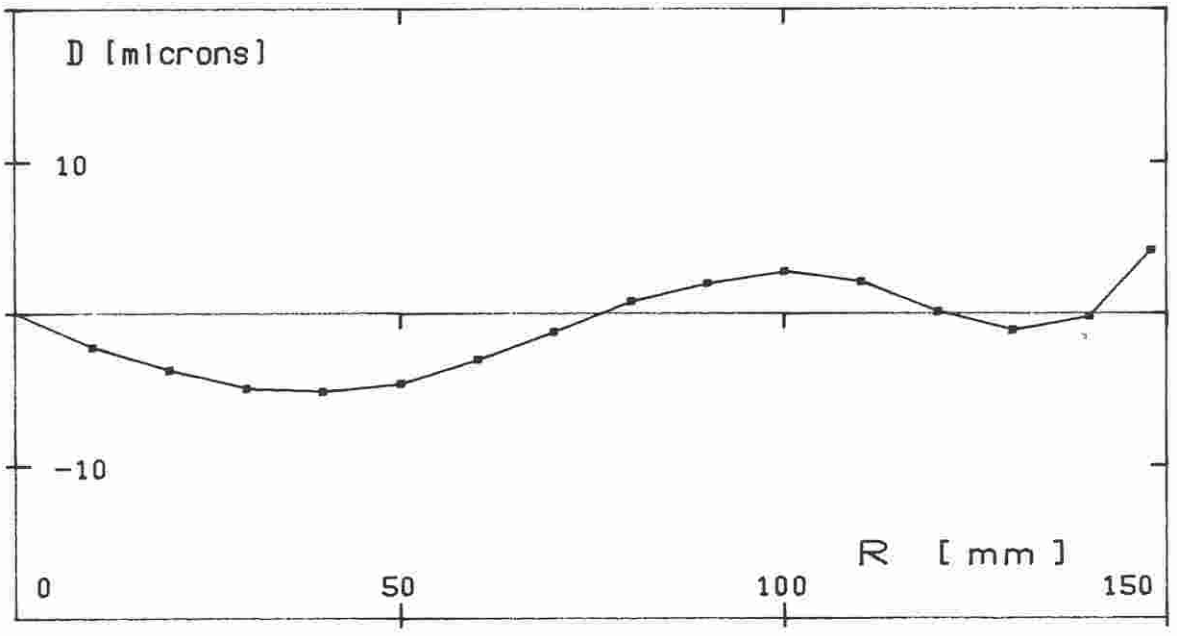
	X (MM)	Y (MM)
1	105.993	-105.993
2	-106.002	-106.002
3	-105.993	105.993
4	105.996	105.996



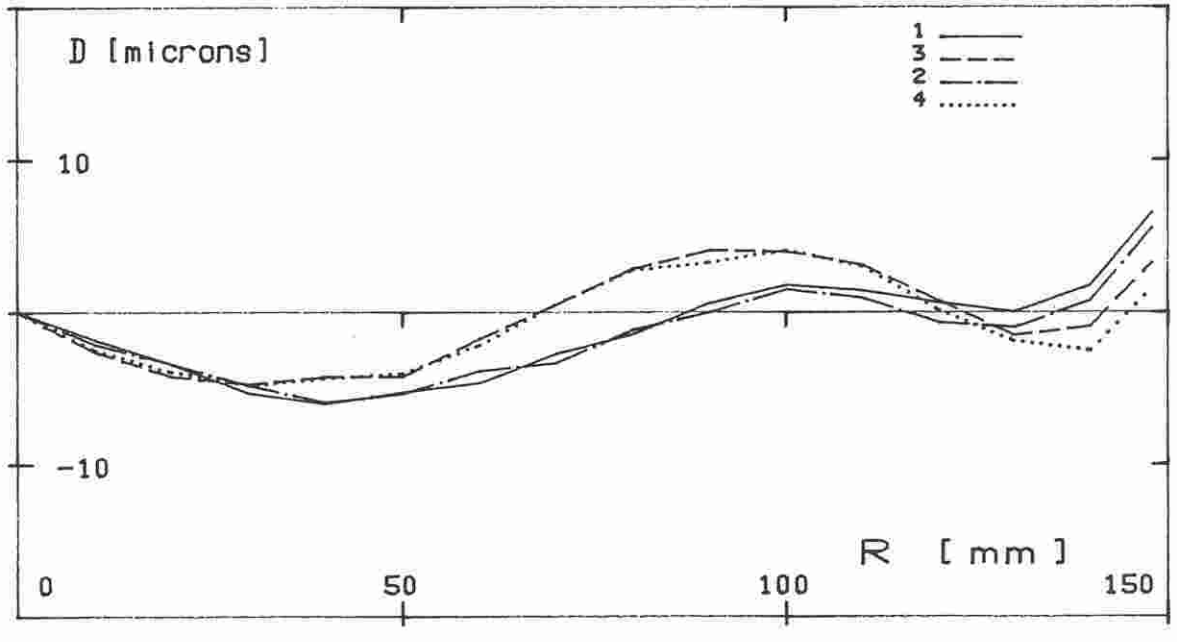
AS SEEN ON FOCAL PLANE FRAME

RC10 30 AT II NO. 4117 29.11.89

APERTURE : F / 4.0
FILTER ON GONIOMETER : 450 NM
FILTER ON CAMERA : --
P.D.(850 m) :305.02 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS
REFERRED TO PPS