

Objektiv verkauft, Februar 95
für V+D wurden keine Angaben mehr gemacht.

CAMERA CALIBRATION CERTIFICATE

CAMERA TYPE : RC20
LENS TYPE : 15/4 UAGA-F
LENS NO. : 13126

Calibration date: 09.11.1994

LEICA AG, HEERBRUGG

Leica

Leica Heerbrugg Ltd
CH-9435 Heerbrugg

Calibration Department
Supervisor

910

Aperture: 4.0
 Filter on goniometer: VIS (400 - 700 NM)
 Filter on camera: --
 C.F.L. : 152.92 mm

Radial distortion (micrometers) referred to principal point of symmetry (PPS)
 (Positive values denote image displacement away from center)

Radius mm	Half - Sides				Mean
	1	3	2	4	
10	0.4	-0.2	0.2	0.4	0.2
20	0.3	0.2	0.3	0.3	0.2
30	0.4	0.2	0.5	0.2	0.3
40	0.0	0.7	0.0	0.3	0.2
50	0.0	0.4	-0.2	0.4	0.1
60	-0.6	0.6	0.4	0.2	0.1
70	0.1	0.9	0.3	0.8	0.5
80	-0.1	1.3	0.8	0.9	0.7
90	1.1	1.2	0.7	1.2	1.0
100	0.6	0.5	1.3	0.8	0.8
110	0.3	-0.5	1.0	1.1	0.4
120	0.0	-1.1	0.3	0.3	-0.1
130	-1.5	-1.8	-0.1	0.2	-0.8
140	-2.7	-2.3	-0.1	-0.3	-1.3
148	-2.4	-2.4	1.0	0.7	-0.7

Photographic resolution (line pairs per millimeter)

International 3-line test-chart, contrast (log) : 2.0

Aperture: 4.0
 Filter: 450 NM
 Film: KODAK TECHNICAL PAN 2415
 Developer: KODAK HC110

Angle (deg)	0	5	10	15	20	25	30	35	40	45
Radial:	106	119	104	81	56	54	73	69	57	42
Tangential:	106	94	103	79	74	78	71	71	55	33

AWAR (Area weighted average resolution) in lp/mm: 69

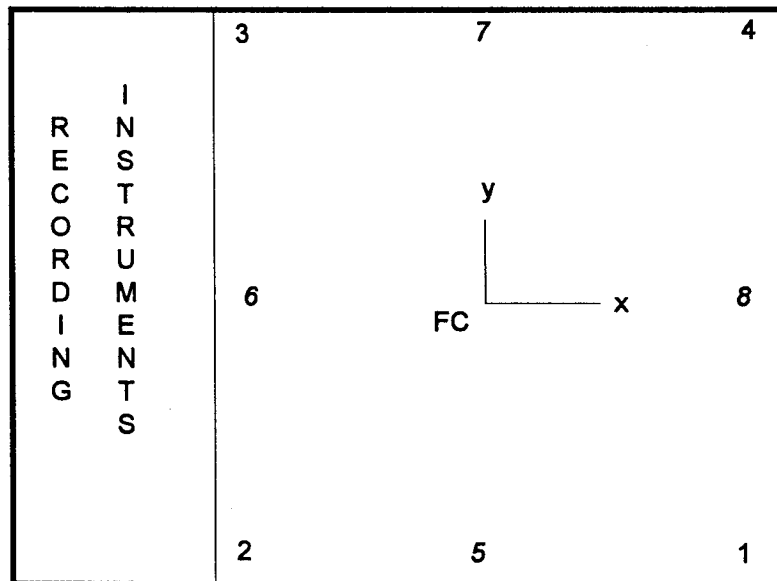


**Principal point of autocollimation (PPA) and
principal point of symmetry (PPS)**
referred to central cross (FC), see diagram

	x (mm)	y (mm)
PPA	0.003	0.012
PPS	0.003	0.011

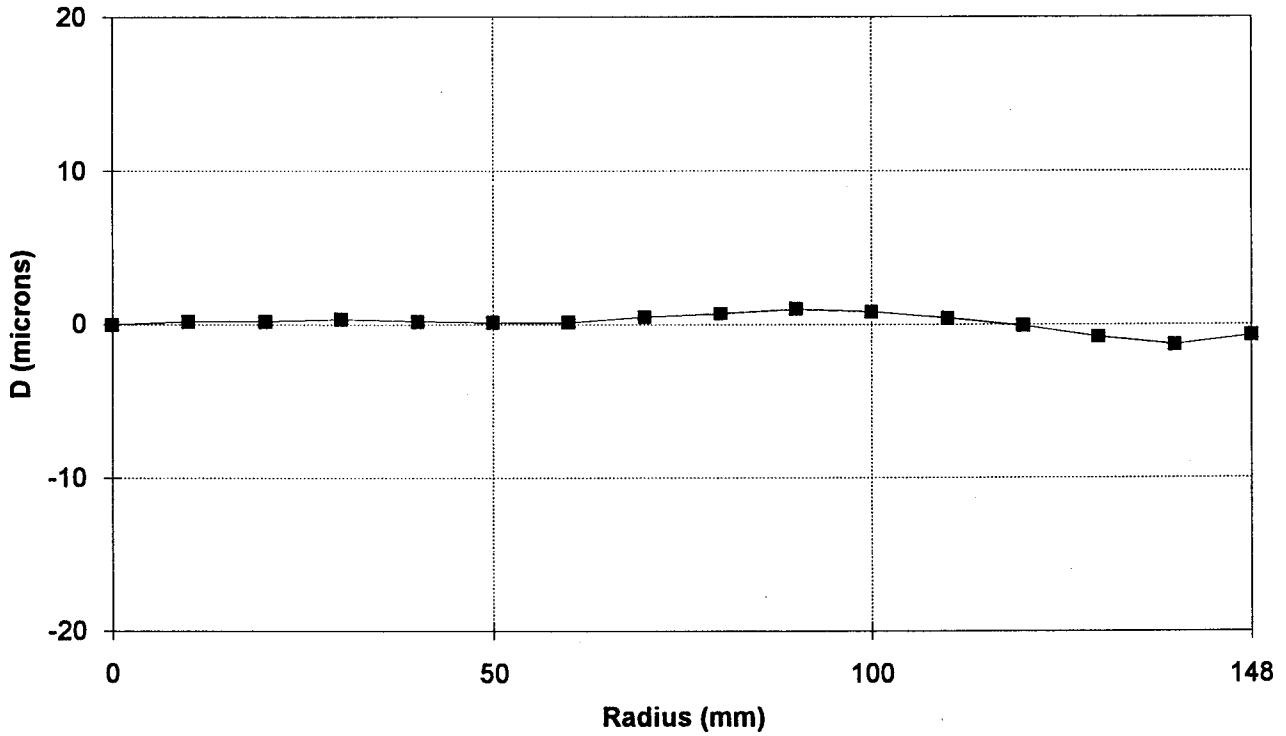
Fiducial marks, referred to central cross (FC)

	x (mm)	y (mm)		x (mm)	y (mm)
1	106.001	-105.998	5	-0.004	-110.003
2	-106.004	-106.004	6	-110.006	0.002
3	-106.004	106.002	7	0.000	110.003
4	106.002	106.002	8	110.007	0.002

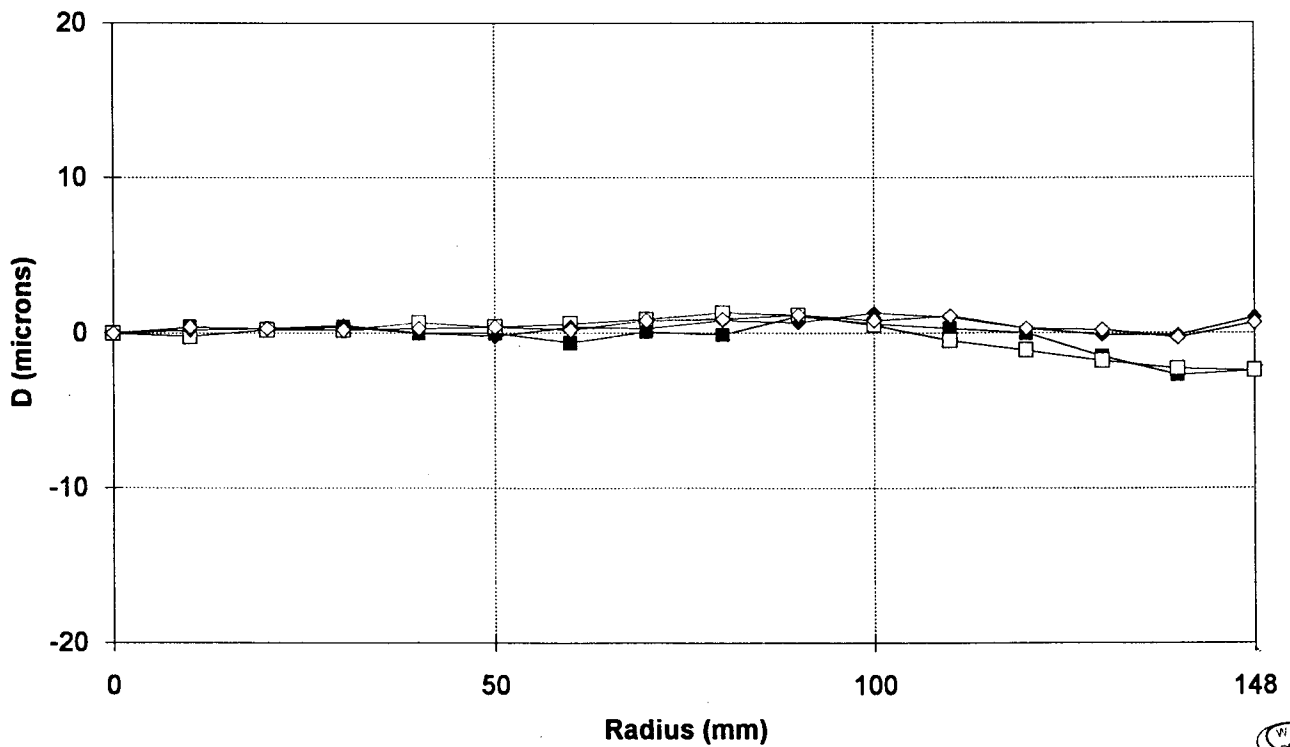


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Mean radial distortion



Radial distortion for semi-diagonals referred to PPS



—■— 1 —□— 3 —◆— 2 —◇— 4

