

CAMERA CALIBRATION CERTIFICATE

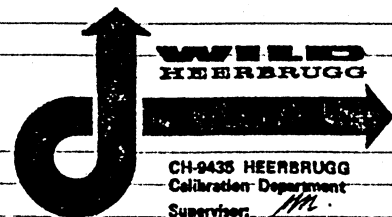
CAMERA TYPE : RC10

LENS TYPE : 21 NAG II

LENS NO. : 7102

CALIBRATION DATE : 07.01.86

WILD HEERBRUGG LTD



CAMERA CALIBRATION

CAMERA: RC10 LENS: 21 NAG 11 NO.: 7102 CALIBRATION DATE: 07.01.86

APERTURE : F / 4.0  
 FILTER ON GONIOMETER : 450 NM  
 FILTER ON CAMERA : --  
 PRINCIPAL DISTANCE FOR FOCUSING DISTANCE 900 M : 213.56 MM

RADIAL DISTORTION (MICROMETERS)

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

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

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 STUDIONAL LIQUID 1:15 6 MIN

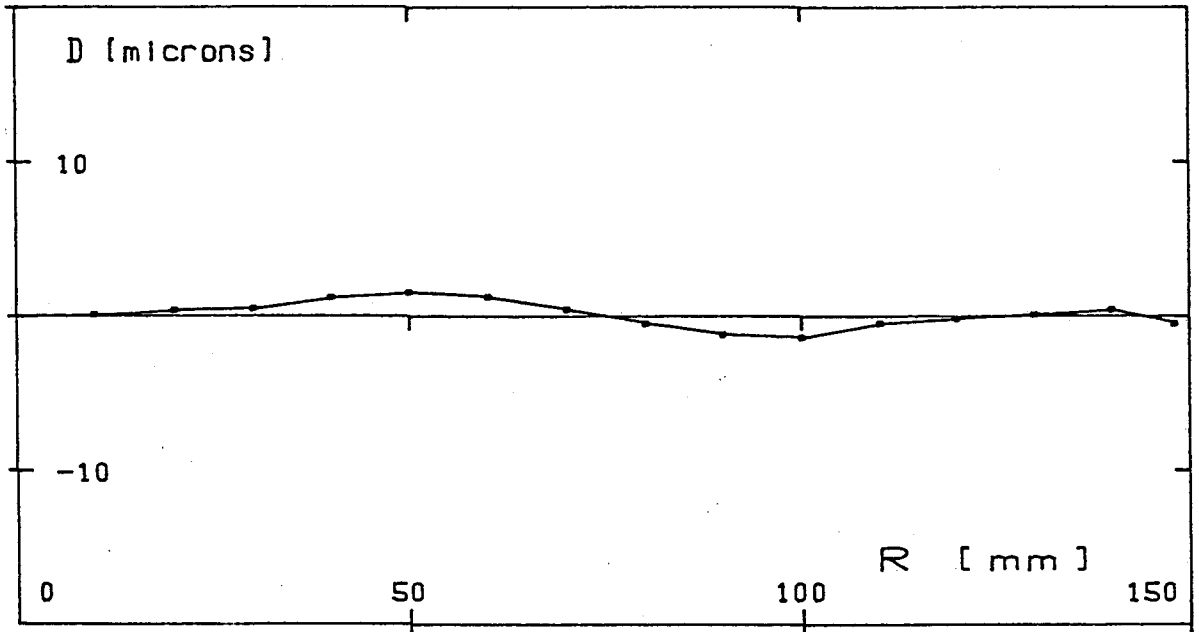
ANGLE:	0	5	10	15	20	25	30	35
(DEGREES)								
RAD.	75	60	56	52	50	43	37	44
TANG.	75	67	52	79	59	49	40	32

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

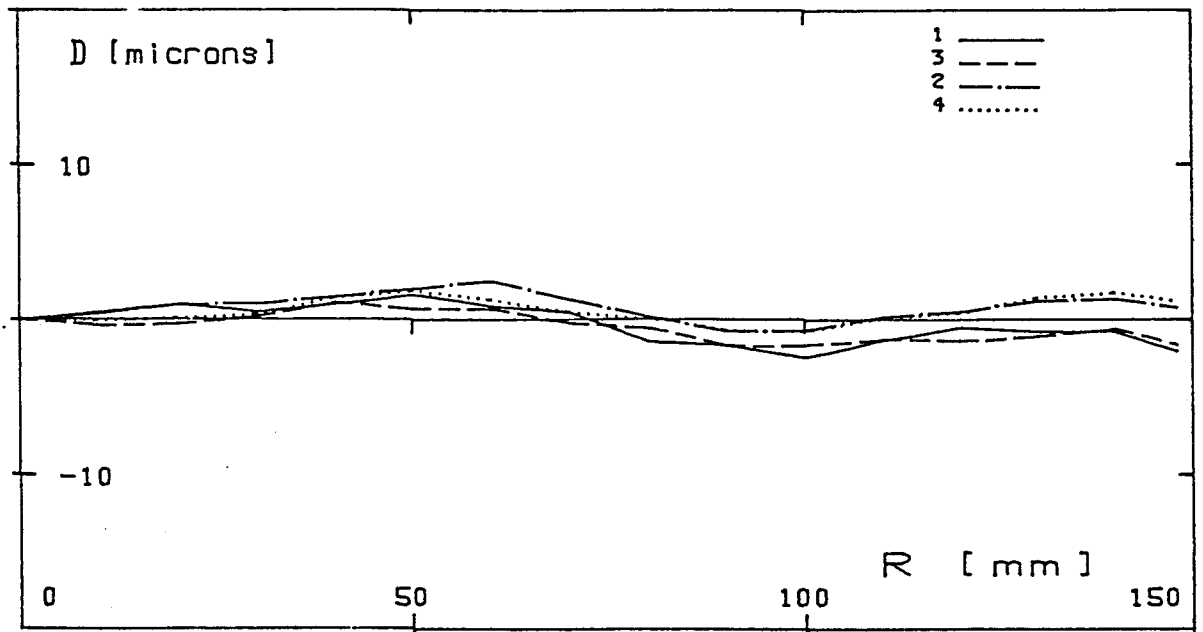
*MK*



APERTURE : F / 4.0  
 FILTER ON GONIOMETER : 450 NM  
 FILTER ON CAMERA : --  
 P.D. ( 900 m ) : 213.56 MM



MEAN RADIAL DISTORTION CURVE



RADIAL DISTORTION FOR SEMI-DIAGONALS REFERRED TO PPS

*M.L.*