

INTERNAL REPORT

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From: D.Laidler

Date: 5th August, 1993

Subject: Canon 2000i1 #279 (Stepper 2) Final Acceptance Report **Update**

Keywords: Stepper, Canon 2000i1, Final Acceptance, Photolithography

Introduction and Summary

At the Final Acceptance of Stepper 2 the three day AGA test for the HeNe alignment mode could not be brought within specification. An action plan was proposed by Canon which was started in Week 30. The action undertaken was to increase the temperature of the Compact Chamber from its standard value of 21°C to 22°C in order to reduce temperature differences between the different units of the stepper; for example the mechanical pre-aligner and the chuck. The three day AGA test was then repeated and all wafers were within the specification of $1ml+3s \leq 0.12\mu$.

Results

The results of the test can be seen in Appendix 1 and the Monolith plots for measurements made at the centre of the shot can be seen in Appendix 2.

Conclusion

Following Canon's action of increasing the Compact Chamber temperature, the AGA accuracy is now within specification and hence Stepper 2 passes all Final Acceptance specifications.

Appendix 1

S2 Repeat AGA Data Following Change of Temperature of Compact Chamber from 21°C to 22°C

		$(Xl+Xr)/2$	Yl	Yr
2/8/93 S2 Mode 1 Wafer 1	m	-0.0009	-0.0004	0.0131
	Min	-0.0319	-0.0401	-0.0272
	Max	0.0257	0.0365	0.0512
	lml	0.0009	0.0004	0.0131
	3s	0.0481	0.0685	0.0642
	lml+3s	0.0490	0.0689	0.0773
2/8/93 S2 Mode 1 Wafer 2	m	0.0005	0.0131	-0.0032
	Min	-0.0285	-0.0330	-0.0372
	Max	0.0318	0.0610	0.0344
	lml	0.0005	0.0131	0.0032
	3s	0.0480	0.0719	0.0597
	lml+3s	0.0486	0.0850	0.0628
2/8/93 S2 Mode 1 Wafer 3	m	-0.0139	0.0160	-0.0037
	Min	-0.0441	-0.0235	-0.0343
	Max	0.0150	0.0494	0.0338
	lml	0.0139	0.0160	0.0037
	3s	0.0474	0.0633	0.0539
	lml+3s	0.0614	0.0793	0.0577
2/8/93 S2 Mode 1 Wafer 4	m	0.0058	0.0012	-0.0041
	Min	-0.0256	-0.0295	-0.0308
	Max	0.0368	0.0403	0.0409
	lml	0.0058	0.0012	0.0041
	3s	0.0538	0.0592	0.0532
	lml+3s	0.0596	0.0604	0.0573
2/8/93 S2 Mode 1 Wafer 5	m	-0.0105	-0.0126	-0.0237
	Min	-0.0483	-0.0454	-0.0521
	Max	0.0300	0.0349	0.0155
	lml	0.0105	0.0126	0.0237
	3s	0.0635	0.0710	0.0558
	lml+3s	0.0740	0.0836	0.0795
2/8/93 S2 Mode 1 All Wafers	m	-0.0038	0.0034	-0.0043
	Min	-0.0483	-0.0454	-0.0521
	Max	0.0368	0.0610	0.0512
	lml	0.0038	0.0034	0.0043
	3s	0.0569	0.0737	0.0673
	lml+3s	0.0607	0.0772	0.0716

S2 Repeat AGA Data Following Change of Temperature of Compact Chamber from 21°C to 22°C

		$(Xl + Xr)/2$	Yl	Yr
3/8/93 S2 Mode 1 Wafer 1	m	-0.0177	-0.0091	-0.0165
	Min	-0.0440	-0.0445	-0.0461
	Max	0.0121	0.0433	0.0382
	lml	0.0177	0.0091	0.0165
	3s	0.0445	0.0662	0.0608
	lml+3s	0.0622	0.0754	0.0773
3/8/93 S2 Mode 1 Wafer 2	m	0.0024	-0.0114	0.0077
	Min	-0.0331	-0.0499	-0.0289
	Max	0.0280	0.0462	0.0604
	lml	0.0024	0.0114	0.0077
	3s	0.0470	0.0681	0.0576
	lml+3s	0.0494	0.0794	0.0653
3/8/93 S2 Mode 1 Wafer 3	m	-0.0041	-0.0049	-0.0253
	Min	-0.0375	-0.0580	-0.0695
	Max	0.0333	0.0304	0.0071
	lml	0.0041	0.0049	0.0253
	3s	0.0591	0.0658	0.0558
	lml+3s	0.0632	0.0707	0.0811
3/8/93 S2 Mode 1 Wafer 4	m	-0.0127	0.0063	0.0087
	Min	-0.0451	-0.0523	-0.0455
	Max	0.0148	0.0548	0.0566
	lml	0.0127	0.0063	0.0087
	3s	0.0504	0.0937	0.0850
	lml+3s	0.0631	0.1000	0.0937
3/8/93 S2 Mode 1 Wafer 5	m	-0.0071	0.0119	0.0057
	Min	-0.0401	-0.0399	-0.0427
	Max	0.0243	0.0749	0.0775
	lml	0.0071	0.0119	0.0057
	3s	0.0547	0.0899	0.0875
	lml+3s	0.0617	0.1018	0.0932
3/8/93 S2 Mode 1 All Wafers	m	-0.0078	-0.0014	-0.0039
	Min	-0.0451	-0.0580	-0.0695
	Max	0.0333	0.0749	0.0775
	lml	0.0078	0.0014	0.0039
	3s	0.0554	0.0823	0.0825
	lml+3s	0.0633	0.0838	0.0864

S2 Repeat AGA Data Following Change of Temperature of Compact Chamber from 21°C to 22°C

		(Xl+Xr)/2	Yl	Yr
4/8/93 S2 Mode 1 Wafer 1	m	-0.0174	-0.0133	-0.0037
	Min	-0.0457	-0.0628	-0.0521
	Max	0.0119	0.0356	0.0419
	lml	0.0174	0.0133	0.0037
	3s	0.0457	0.0858	0.0790
	lml+3s	0.0631	0.0991	0.0827
4/8/93 S2 Mode 1 Wafer 2	m	-0.0096	-0.0260	-0.0111
	Min	-0.0378	-0.0518	-0.0356
	Max	0.0216	0.0167	0.0369
	lml	0.0096	0.0260	0.0111
	3s	0.0485	0.0507	0.0460
	lml+3s	0.0581	0.0767	0.0572
4/8/93 S2 Mode 1 Wafer 3	m	-0.0165	-0.0042	-0.0291
	Min	-0.0380	-0.0493	-0.0665
	Max	0.0192	0.0456	0.0172
	lml	0.0165	0.0042	0.0291
	3s	0.0469	0.0770	0.0666
	lml+3s	0.0633	0.0812	0.0957
4/8/93 S2 Mode 1 Wafer 4	m	-0.0177	0.0004	-0.0224
	Min	-0.0529	-0.0384	-0.0580
	Max	0.0061	0.0378	0.0123
	lml	0.0177	0.0004	0.0224
	3s	0.0396	0.0673	0.0613
	lml+3s	0.0572	0.0677	0.0837
4/8/93 S2 Mode 1 Wafer 5	m	0.0150	-0.0094	0.0043
	Min	-0.0177	-0.0689	-0.0444
	Max	0.0578	0.0250	0.0369
	lml	0.0150	0.0094	0.0043
	3s	0.0563	0.0654	0.0583
	lml+3s	0.0713	0.0748	0.0625
4/8/93 S2 Mode 1 All Wafers	m	-0.0092	-0.0105	-0.0124
	Min	-0.0529	-0.0689	-0.0665
	Max	0.0578	0.0456	0.0419
	lml	0.0092	0.0105	0.0124
	3s	0.0606	0.0753	0.0729
	lml+3s	0.0698	0.0858	0.0853

Appendix 2

MONO-LITH® ANALYSIS

GRID

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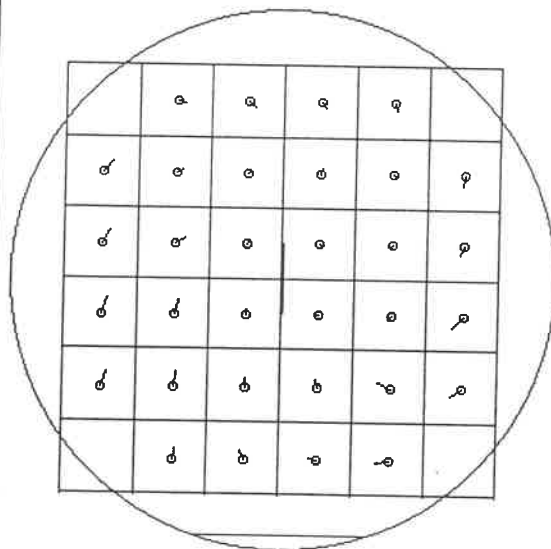
V2.08 S/N 121

FILE: C:\DATA\CANON\AGA\RESCENT\S202081.REG

DATE: AUG-03-93

VECTOR MAP

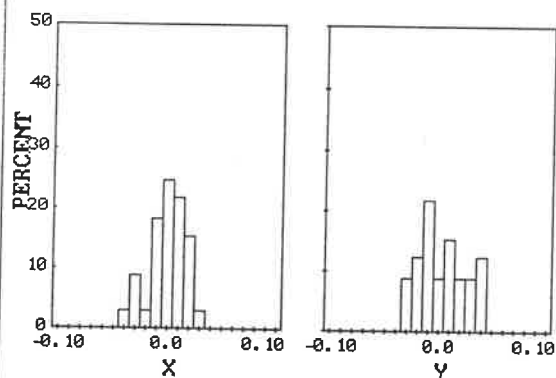
S202081 CANON/AGA/RESC(01A) MEA



SCALE: 0.10 um.

HISTOGRAM

S202081 CANON/AGA/RESC(01A) MEA



MAX: 0.027
AUG: 0.000
MIN: -0.036
S.D: 0.016
OUT: 0
SIZE: 32

MAX: 0.041
AUG: 0.004
MIN: -0.033
S.D: 0.022
OUT: 0
SIZE: 32

MONO-LITH® ANALYSIS

GRID

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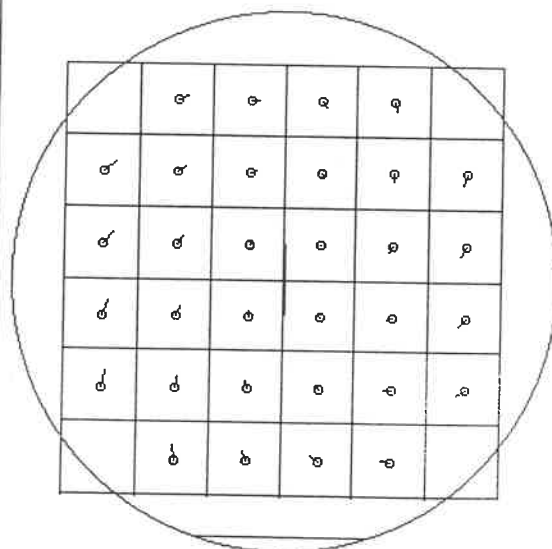
V2.08 S/N 121

FILE: C:\DATA\CANON\AGA\RESCENT\S202081.REG

DATE: AUG-03-93

VECTOR MAP

S202081 CANON/AGA/RESC(01A) MOD



SCALE: 0.10 um.

COEFFICIENTS

S202081 CANON/AGA/RESC(01A)

TRANSLATION	X	0 nm.
	Y	4 nm.
ROTATION		-0.56 nm/mm
SCALE	X	-0.38 nm/mm
	Y	-0.29 nm/mm
ORTHOGONALITY		0.26 nm/mm
RESIDUAL (rms)	X	5 nm.
	Y	8 nm.

MONO-LITH® ANALYSIS

GRID

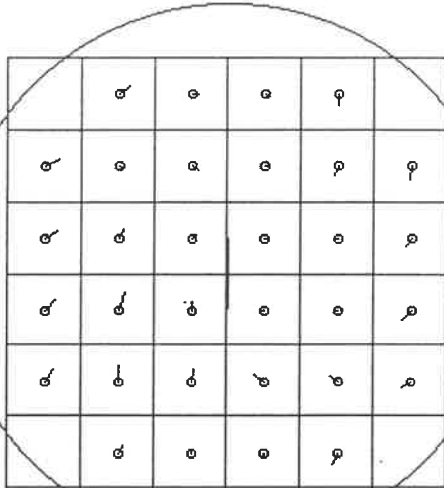
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V2.08 S/N 121

FILE: C:\DATA\CANON\AGA\RESCENT\S202082.REG

DATE: AUG-03-93

VECTOR MAP

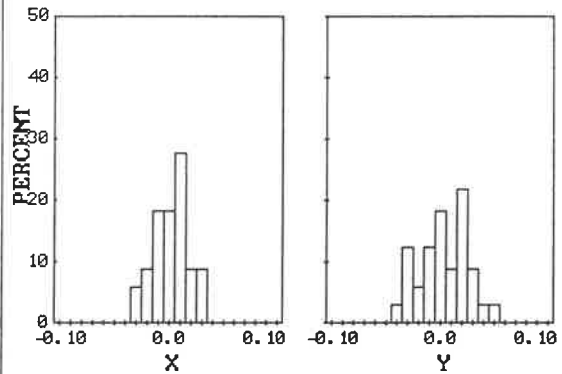
—S202082 CANON/AGA/RESC(02A) MEA



SCALE: 0.10 um.

HISTOGRAM

S202082 CANON/AGA/RESC(02A) MEA



MAX: 0.034
AUG: 0.002
MIN: -0.027
S.D: 0.016
OUT: 0
SIZE: 32

MAX: 0.049
AUG: 0.004
MIN: -0.037
S.D: 0.022
OUT: 0
SIZE: 32

MONO-LITH® ANALYSIS

GRID

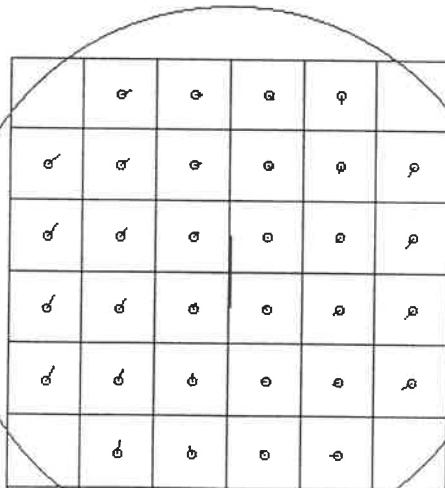
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V2.08 S/N 121

FILE: C:\DATA\CANON\AGA\RESCENT\S202082.REG

DATE: AUG-03-93

VECTOR MAP

—S202082 CANON/AGA/RESC(02A) MOD



SCALE: 0.10 um.

COEFFICIENTS

S202082 CANON/AGA/RESC(02A)

TRANSLATION	X	2 nm.
	Y	4 nm.
ROTATION		-0.53 nm/mm
SCALE	X	-0.44 nm/mm
	Y	-0.22 nm/mm
ORTHOGONALITY		0.34 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	12 nm.

MONO-LITH® ANALYSIS

GRID

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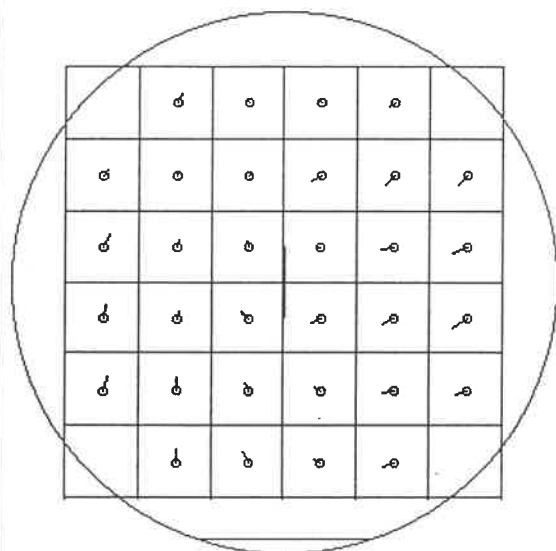
V2.08 S/N 121

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DATE: AUG-03-93

VECTOR MAP

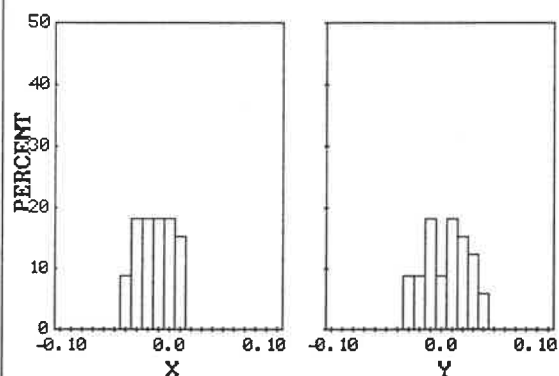
S202083 CANON/AGA/RESC(03A) MEA



SCALE: 0.10 um.

HISTOGRAM

S202083 CANON/AGA/RESC(03A) MEA



MAX: 0.014
 AVG: -0.013
 MIN: -0.040
 S.D: 0.016
 OUT: 0
 SIZE: 32

MAX: 0.038
 AVG: 0.005
 MIN: -0.029
 S.D: 0.020
 OUT: 0
 SIZE: 32

MONO-LITH® ANALYSIS

GRID

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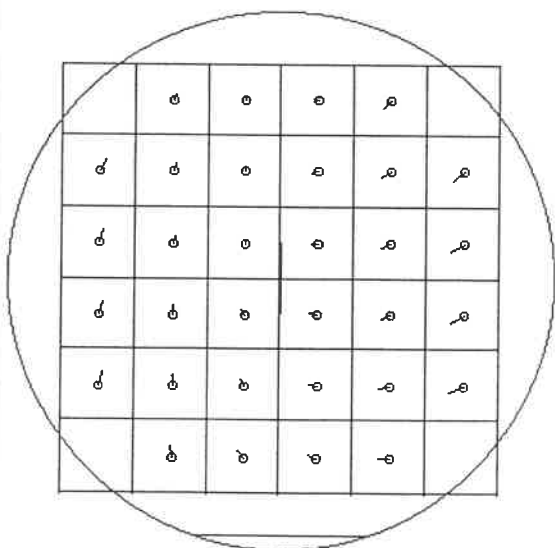
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FILE: C:\DATA\CANON\AGA\RESCENT\S202083.REG

DATE: AUG-03-93

VECTOR MAP

S202083 CANON/AGA/RESC(03A) MOD



SCALE: 0.10 um.

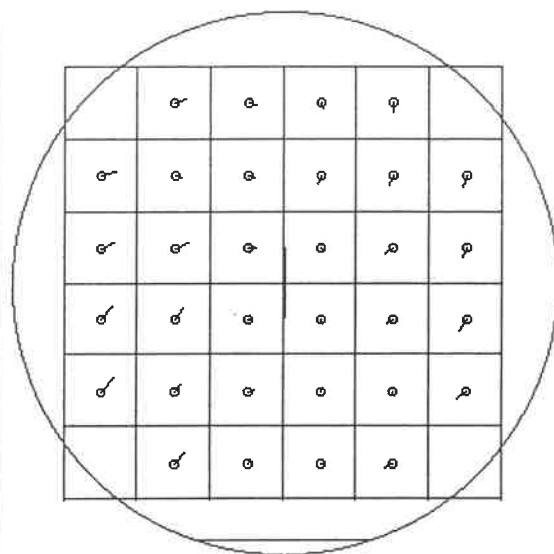
COEFFICIENTS

S202083 CANON/AGA/RESC(03A)

TRANSLATION	X	-13 nm.
	Y	5 nm.
ROTATION		-0.56 nm/mm
SCALE	X	-0.46 nm/mm
	Y	-0.17 nm/mm
ORTHOGONALITY		0.46 nm/mm
RESIDUAL (rms)	X	5 nm.
	Y	7 nm.

VECTOR MAP

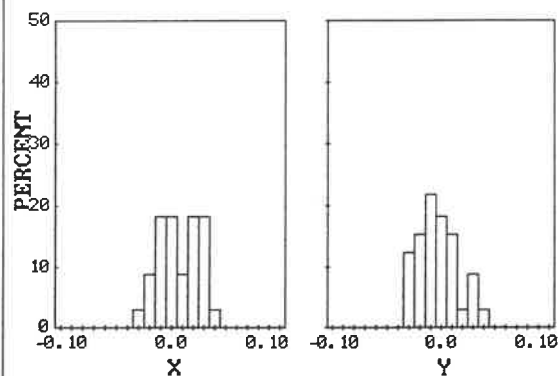
—S202084 CANON/AGA/RESC(04A) MEA



SCALE: 0.10 um.

HISTOGRAM

S202084 CANON/AGA/RESC(04A) MEA

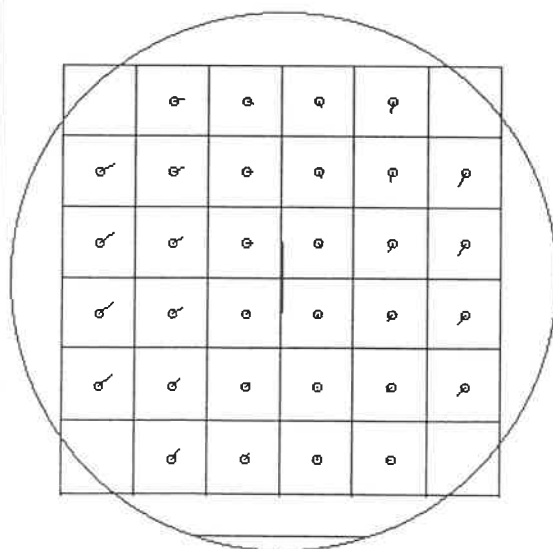


MAX: 0.038
 AVG: 0.007
 MIN: -0.025
 S.D: 0.018
 OUT: 0
 SIZE: 32

MAX: 0.040
 AVG: -0.004
 MIN: -0.035
 S.D: 0.019
 OUT: 0
 SIZE: 32

VECTOR MAP

—S202084 CANON/AGA/RESC(04A) MOD



SCALE: 0.10 um.

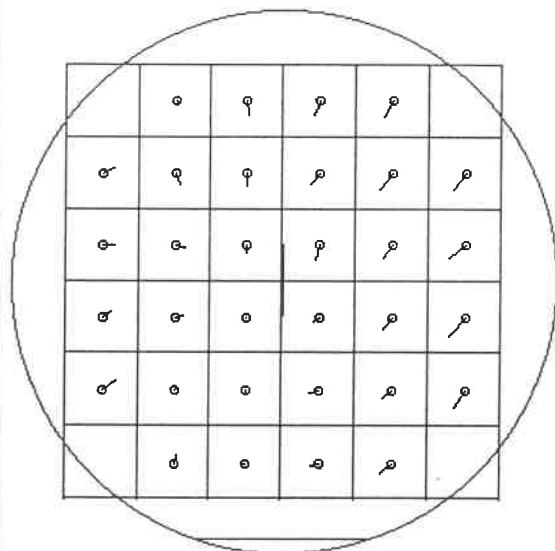
COEFFICIENTS

S202084 CANON/AGA/RESC(04A)

TRANSLATION	X	7 nm.
	Y	-3 nm.
ROTATION		-0.53 nm/mm
SCALE	X	-0.55 nm/mm
	Y	-0.21 nm/mm
ORTHOGONALITY		0.47 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	6 nm.

VECTOR MAP

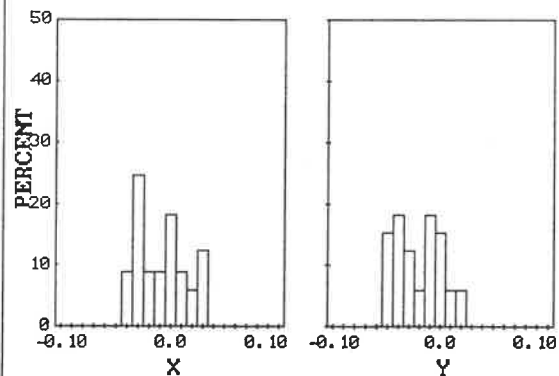
—S202085 CANON/AGA/RESC(05A) MEA



SCALE: 0.10 um.

HISTOGRAM

S202085 CANON/AGA/RESC(05A) MEA

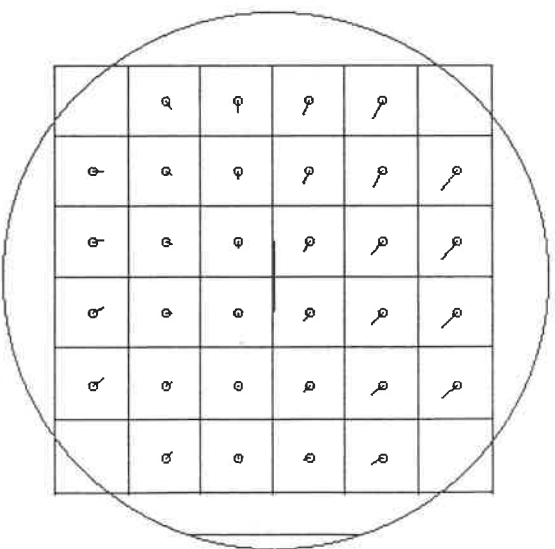


MAX: 0.035
 AVG: -0.008
 MIN: -0.045
 S.D: 0.022
 OUT: 0
 SIZE: 32

MAX: 0.022
 AVG: -0.020
 MIN: -0.050
 S.D: 0.022
 OUT: 0
 SIZE: 32

VECTOR MAP

—S202085 CANON/AGA/RESC(05A) MOD



SCALE: 0.10 um.

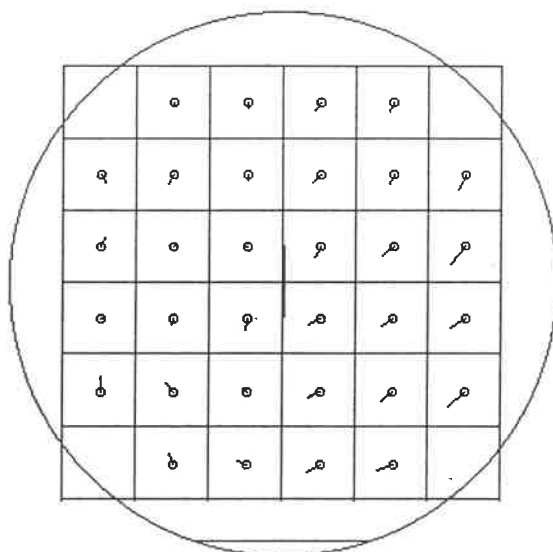
COEFFICIENTS

S202085 CANON/AGA/RESC(05A)

TRANSLATION	X	-8 nm.
	Y	-20 nm.
ROTATION		-0.55 nm/mm
SCALE	X	-0.68 nm/mm
	Y	-0.34 nm/mm
ORTHOGONALITY		0.54 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	8 nm.

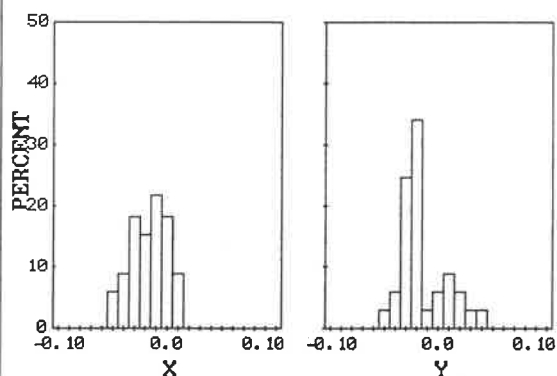
VECTOR MAP

—S203081 CANON/AGA/RESC(06A) MEA



HISTOGRAM

S203081 CANON/AGA/RESC(06A) MEA

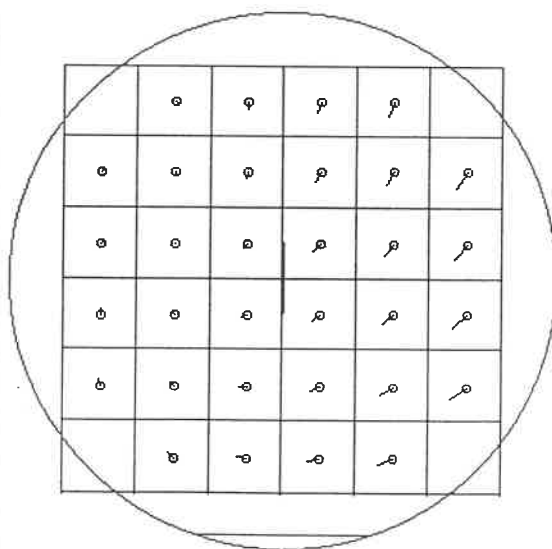


MAX: 0.008
 AVG: -0.017
 MIN: -0.047
 S.D: 0.016
 OUT: 0
 SIZE: 32

MAX: 0.039
 AVG: -0.015
 MIN: -0.051
 S.D: 0.021
 OUT: 0
 SIZE: 32

VECTOR MAP

—S203081 CANON/AGA/RESC(06A) MOD



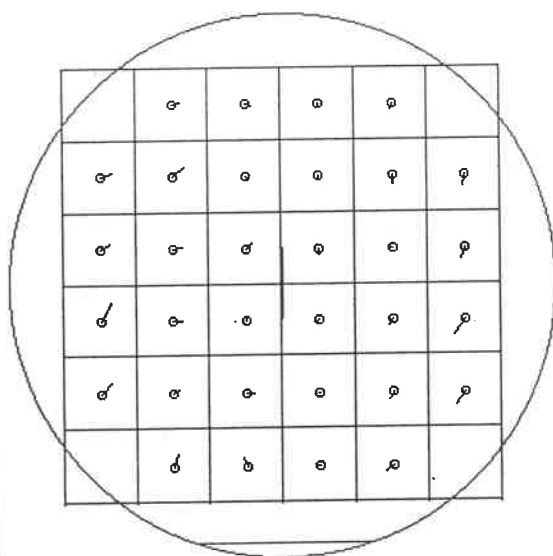
COEFFICIENTS

S203081 CANON/AGA/RESC(06A)

TRANSLATION	X	-17 nm.
	Y	-15 nm.
ROTATION		-0.48 nm/mm
SCALE	X	-0.40 nm/mm
	Y	-0.23 nm/mm
ORTHOGONALITY		0.26 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	12 nm.

VECTOR MAP

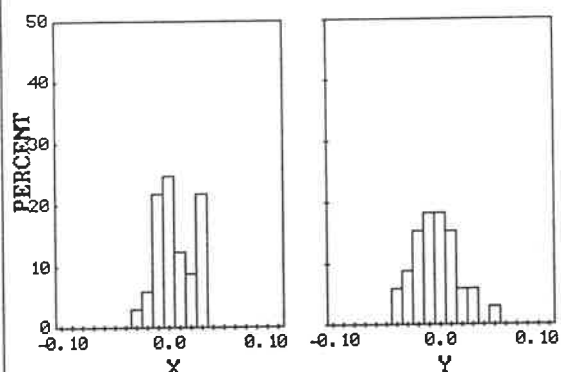
—S203082 CANON/AGA/RESC(07A) MEA



SCALE: 0.10 um.

HISTOGRAM

S203082 CANON/AGA/RESC(07A) MEA

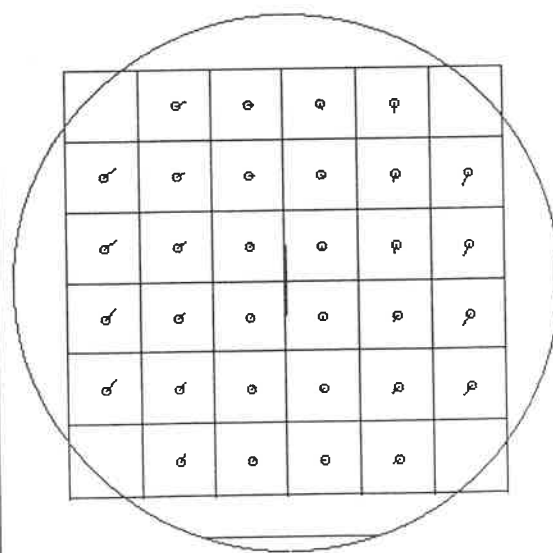


MAX: 0.029
 AVG: 0.005
 MIN: -0.028
 S.D: 0.016
 OUT: 0
 SIZE: 32

MAX: 0.049
 AVG: -0.004
 MIN: -0.042
 S.D: 0.020
 OUT: 0
 SIZE: 32

VECTOR MAP

—S203082 CANON/AGA/RESC(07A) MOD



SCALE: 0.10 um.

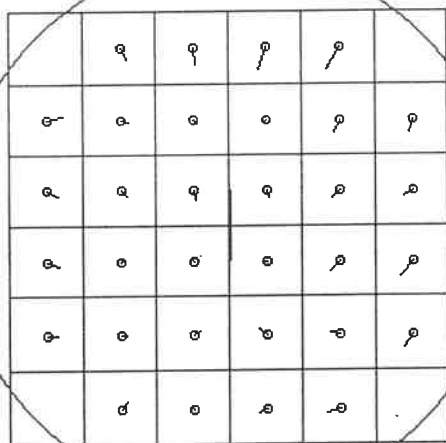
COEFFICIENTS

S203082 CANON/AGA/RESC(07A)

TRANSLATION	X	5 nm.
	Y	-4 nm.
ROTATION		-0.56 nm/mm
SCALE	X	-0.45 nm/mm
	Y	-0.12 nm/mm
ORTHOGONALITY		0.43 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	9 nm.

VECTOR MAP

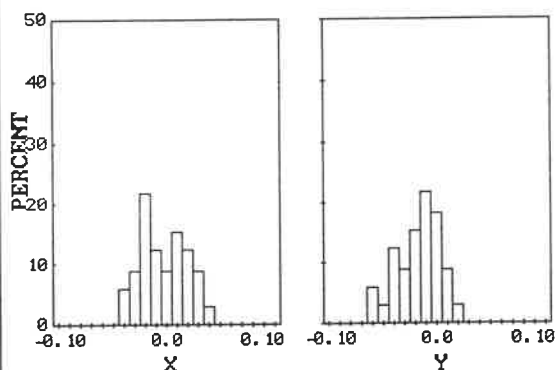
—S203083 CANON/AGA/RESC(08A) MEA



SCALE: 0.10 um.

HISTOGRAM

S203083 CANON/AGA/RESC(08A) MEA

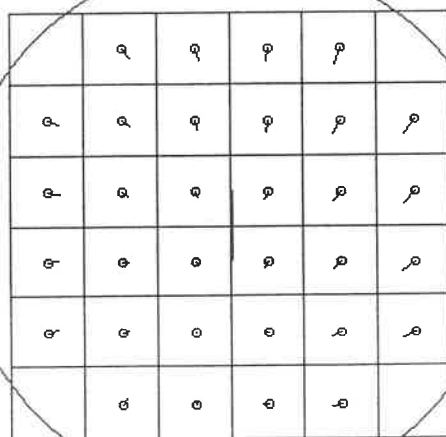


MAX: 0.042
 AVG: -0.003
 MIN: -0.037
 S.D: 0.021
 OUT: 0
 SIZE: 32

MAX: 0.017
 AVG: -0.017
 MIN: -0.064
 S.D: 0.020
 OUT: 0
 SIZE: 32

VECTOR MAP

—S203083 CANON/AGA/RESC(08A) MOD



SCALE: 0.10 um.

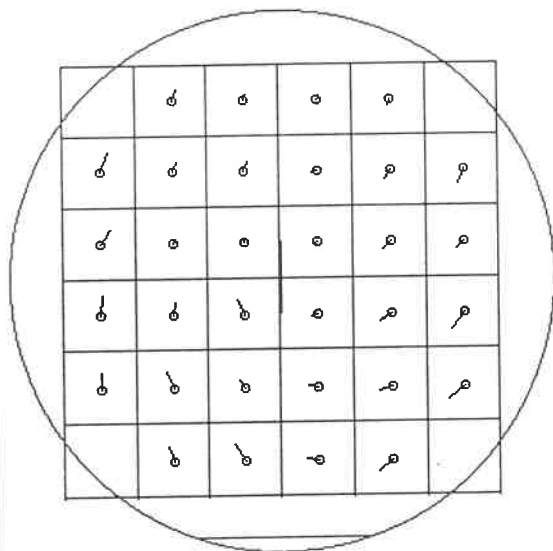
COEFFICIENTS

S203083 CANON/AGA/RESC(08A)

TRANSLATION	X	-3 nm.
	Y	-17 nm.
ROTATION		-0.30 nm/mm
SCALE	X	-0.61 nm/mm
	Y	-0.39 nm/mm
ORTHOGONALITY		0.21 nm/mm
RESIDUAL (rms)	X	8 nm.
	Y	13 nm.

VECTOR MAP

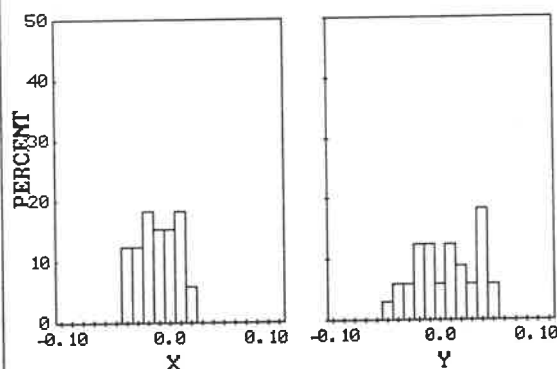
—S203084 CANON/AGA/RESC(09A) MEA



SCALE: | 0.10 um.

HISTOGRAM

S203084 CANON/AGA/RESC(09A) MEA

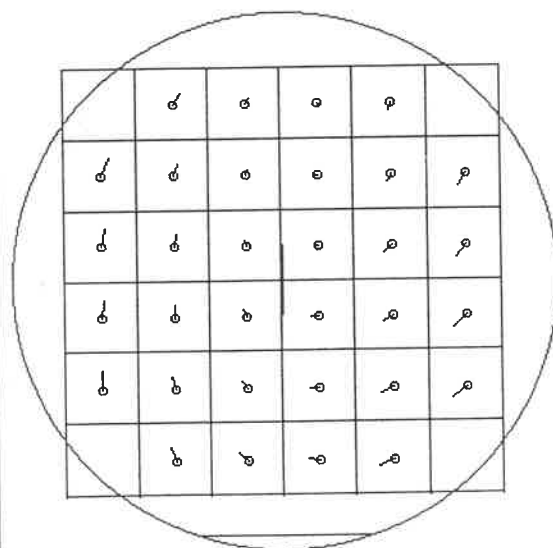


MAX: 0.024
 AVG: -0.011
 MIN: -0.043
 S.D: 0.017
 OUT: 0
 SIZE: 32

MAX: 0.052
 AVG: 0.006
 MIN: -0.047
 S.D: 0.029
 OUT: 0
 SIZE: 32

VECTOR MAP

—S203084 CANON/AGA/RESC(09A) MOD



SCALE: | 0.10 um.

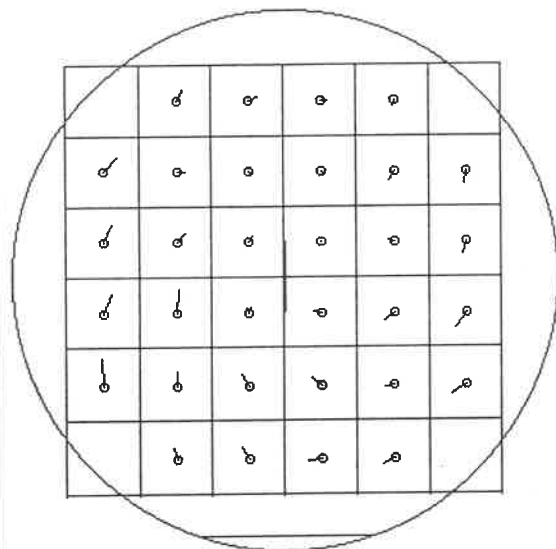
COEFFICIENTS

S203084 CANON/AGA/RESC(09A)

TRANSLATION	X	-11 nm.
	Y	6 nm.
ROTATION		-0.86 nm/mm
SCALE	X	-0.39 nm/mm
	Y	-0.07 nm/mm
ORTHOGONALITY		0.51 nm/mm
RESIDUAL (rms)	X	5 nm.
	Y	9 nm.

VECTOR MAP

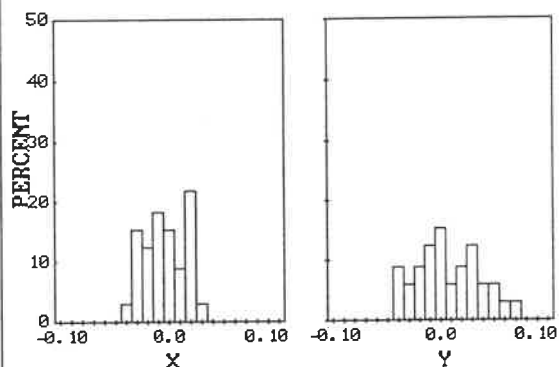
—S203085 CANON/AGA/RESC(10A) MEA



SCALE: | 0.10 um.

HISTOGRAM

S203085 CANON/AGA/RESC(10A) MEA

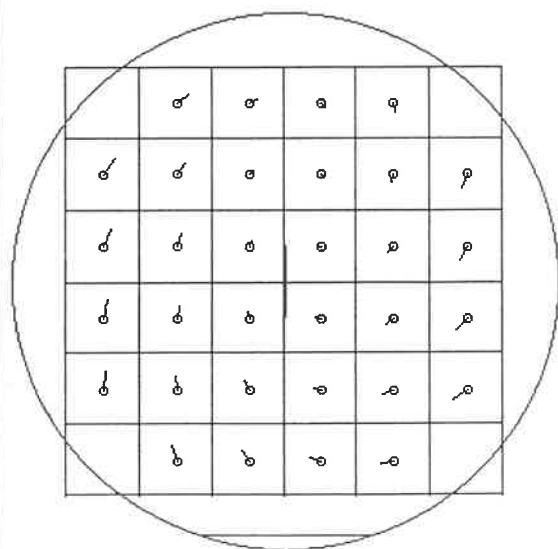


MAX: 0.033
 AVG: -0.005
 MIN: -0.041
 S.D: 0.019
 OUT: 0
 SIZE: 32

MAX: 0.075
 AVG: 0.007
 MIN: -0.043
 S.D: 0.029
 OUT: 0
 SIZE: 32

VECTOR MAP

—S203085 CANON/AGA/RESC(10A) MOD



SCALE: | 0.10 um.

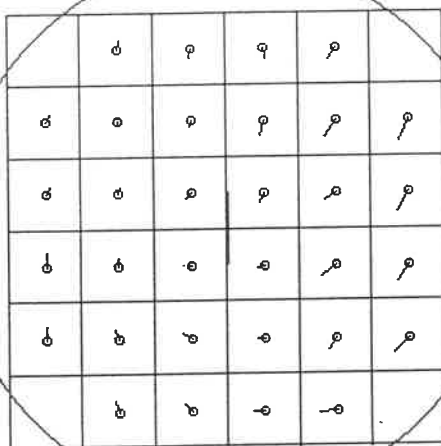
COEFFICIENTS

S203085 CANON/AGA/RESC(10A)

TRANSLATION	X	-5 nm.
	Y	7 nm.
ROTATION		-0.84 nm/mm
SCALE	X	-0.42 nm/mm
	Y	-0.19 nm/mm
ORTHOGONALITY		0.43 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	11 nm.

VECTOR MAP

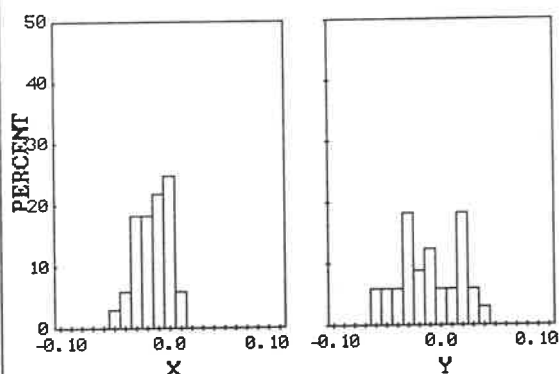
—S204081 CANON/AGA/RESC(11A) MEA



SCALE: 0.10 um.

HISTOGRAM

S204081 CANON/AGA/RESC(11A) MEA

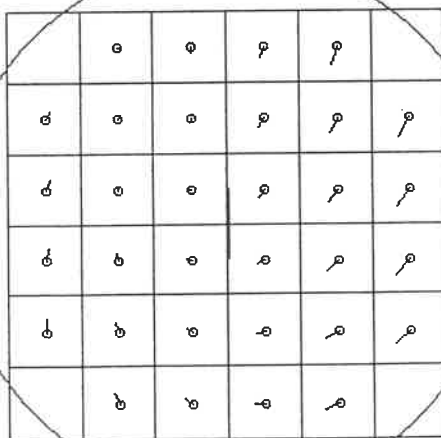


MAX: 0.010
 AVG: -0.015
 MIN: -0.053
 S.D: 0.016
 OUT: 0
 SIZE: 32

MAX: 0.037
 AVG: -0.010
 MIN: -0.062
 S.D: 0.028
 OUT: 0
 SIZE: 32

VECTOR MAP

—S204081 CANON/AGA/RESC(11A) MOD



SCALE: 0.10 um.

COEFFICIENTS

S204081 CANON/AGA/RESC(11A)

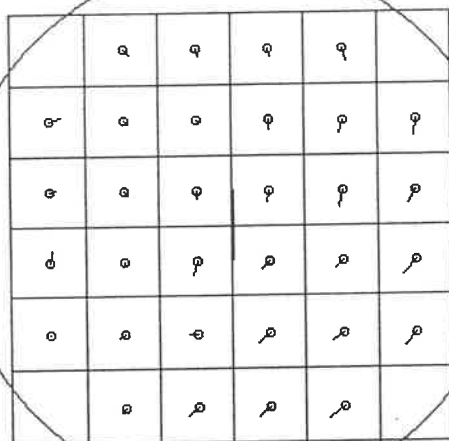
TRANSLATION	X	-15 nm.
	Y	-10 nm.
ROTATION		-0.78 nm/mm
SCALE	X	-0.42 nm/mm
	Y	-0.33 nm/mm
ORTHOGONALITY		0.57 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	8 nm.

FILE: C:\DATA\CANON\AGA\RESCENT\S204082.REG

DATE: AUG-03-93

VECTOR MAP

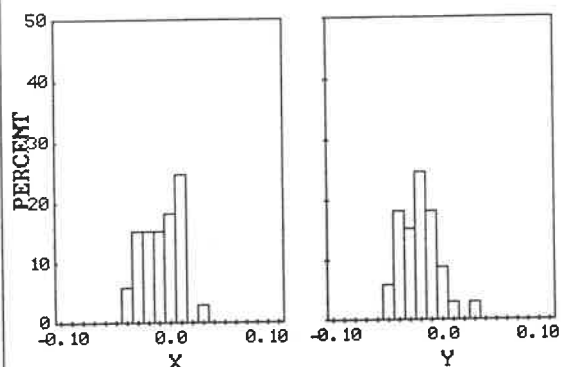
—S204082 CANON/AGA/RESC(12A) MEA



SCALE: 0.10 um.

HISTOGRAM

S204082 CANON/AGA/RESC(12A) MEA



MAX: 0.032
 AUG: -0.009
 MIN: -0.042
 S.D: 0.017
 OUT: 0
 SIZE: 32

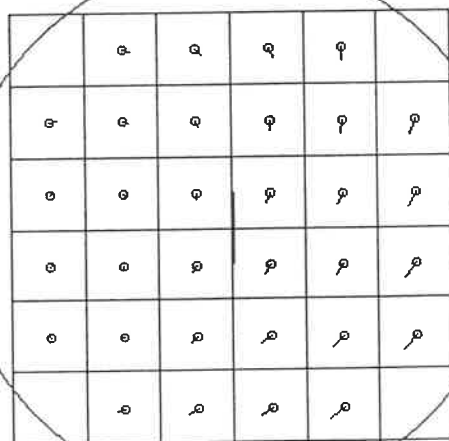
MAX: 0.027
 AUG: -0.021
 MIN: -0.048
 S.D: 0.016
 OUT: 0
 SIZE: 32

FILE: C:\DATA\CANON\AGA\RESCENT\S204082.REG

DATE: AUG-03-93

VECTOR MAP

—S204082 CANON/AGA/RESC(12A) MOD



SCALE: 0.10 um.

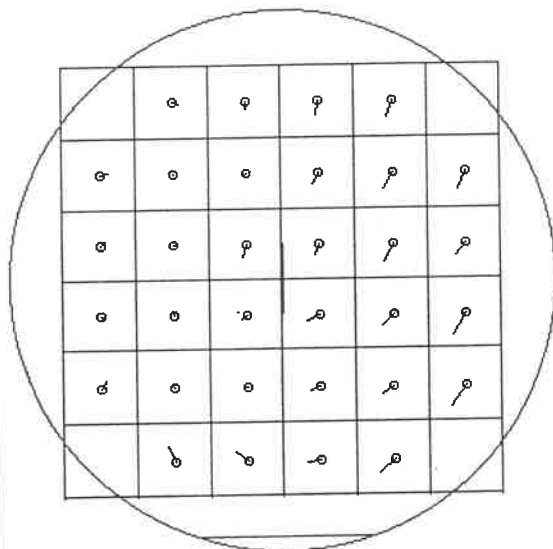
COEFFICIENTS

S204082 CANON/AGA/RESC(12A)

TRANSLATION	X	-9 nm.
	Y	-21 nm.
ROTATION		-0.44 nm/mm
SCALE	X	-0.34 nm/mm
	Y	-0.03 nm/mm
ORTHOGONALITY		0.05 nm/mm
RESIDUAL (rms)	X	5 nm.
	Y	8 nm.

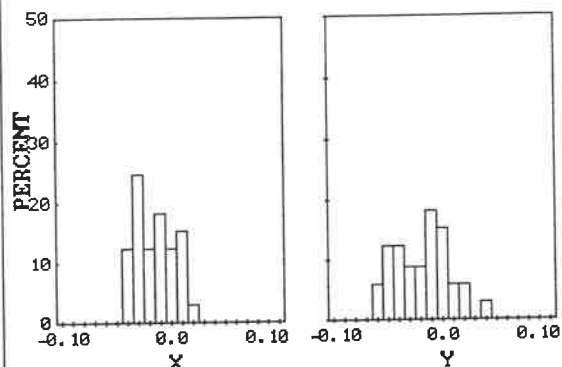
VECTOR MAP

—S204083 CANON/AGA/RESC(13A) MEA



HISTOGRAM

S204083 CANON/AGA/RESC(13A) MEA

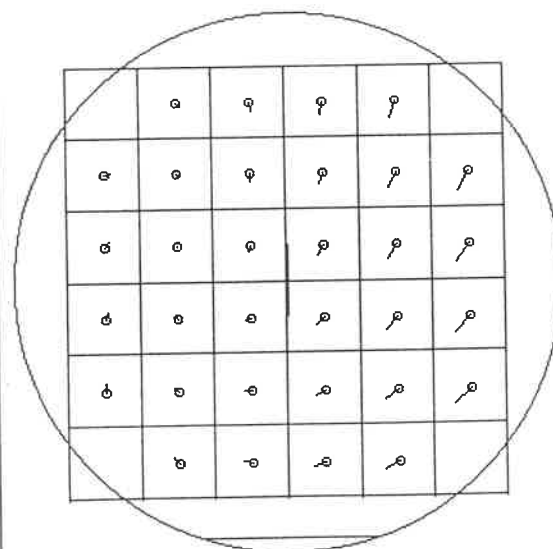


MAX: 0.018
 AVG: -0.015
 MIN: -0.042
 S.D: 0.017
 OUT: 0
 SIZE: 32

MAX: 0.036
 AVG: -0.019
 MIN: -0.061
 S.D: 0.024
 OUT: 0
 SIZE: 32

VECTOR MAP

—S204083 CANON/AGA/RESC(13A) MOD



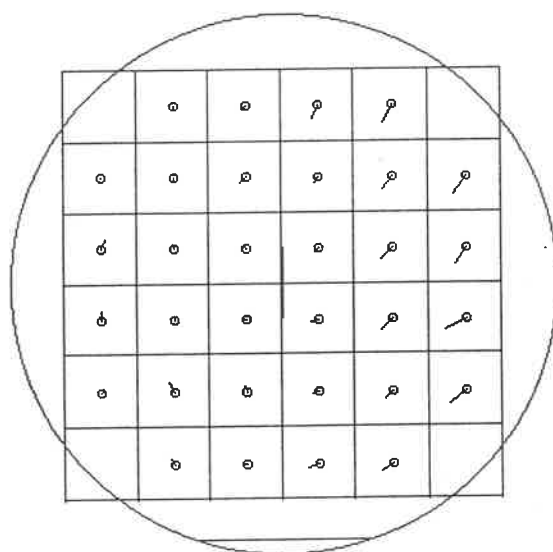
COEFFICIENTS

S204083 CANON/AGA/RESC(13A)

TRANSLATION	X	-15 nm.
	Y	-19 nm.
ROTATION		-0.63 nm/mm
SCALE	X	-0.42 nm/mm
	Y	-0.27 nm/mm
ORTHOGONALITY		0.37 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	11 nm.

VECTOR MAP

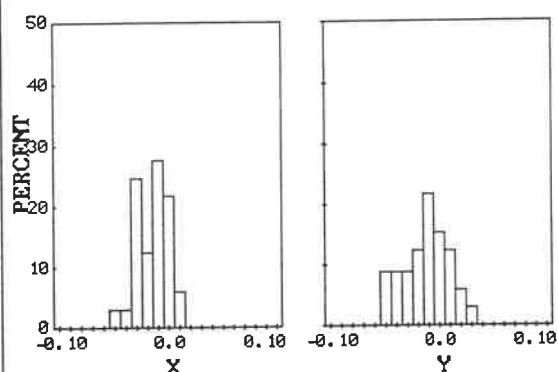
—S204084 CANON/AGA/RESC(14A) MEA



SCALE: 0.10 um.

HISTOGRAM

S204084 CANON/AGA/RESC(14A) MEA

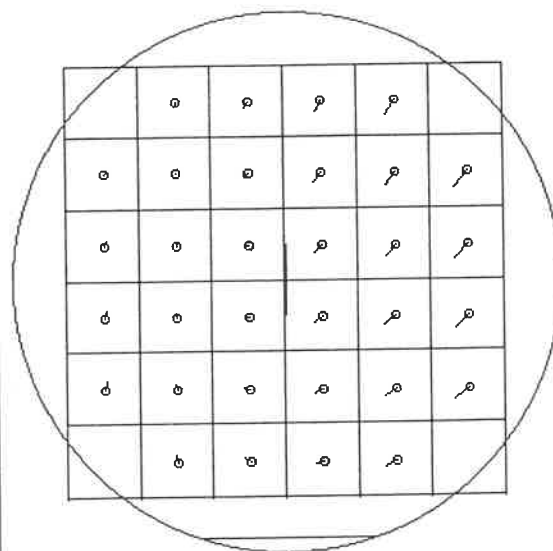


MAX: 0.009
 AVG: -0.016
 MIN: -0.055
 S.D: 0.014
 OUT: 0
 SIZE: 32

MAX: 0.025
 AVG: -0.013
 MIN: -0.054
 S.D: 0.022
 OUT: 0
 SIZE: 32

VECTOR MAP

—S204084 CANON/AGA/RESC(14A) MOD



SCALE: 0.10 um.

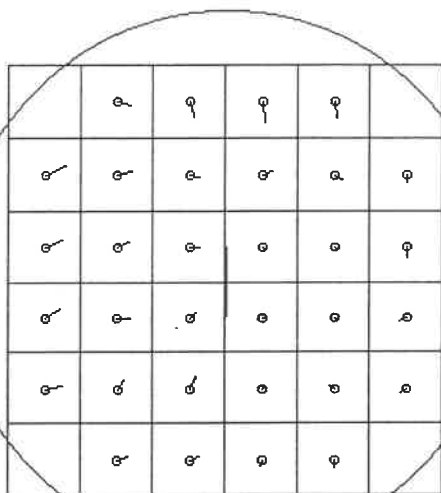
COEFFICIENTS

S204084 CANON/AGA/RESC(14A)

TRANSLATION	X	-16 nm.
	Y	-13 nm.
ROTATION		-0.59 nm/mm
SCALE	X	-0.41 nm/mm
	Y	-0.25 nm/mm
ORTHOGONALITY		0.54 nm/mm
RESIDUAL (rms)	X	6 nm.
	Y	7 nm.

VECTOR MAP

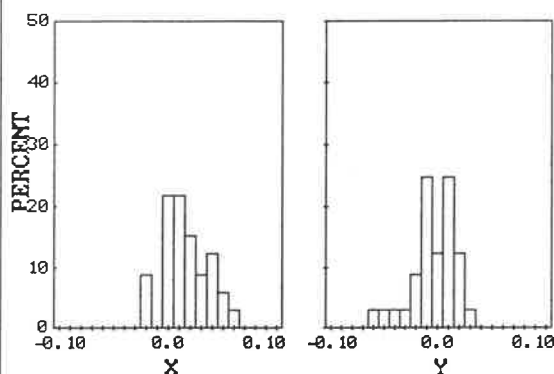
—S204085 CANON/AGA/RESC(15A) MEA



SCALE: 0.10 um.

HISTOGRAM

S204085 CANON/AGA/RESC(15A) MEA

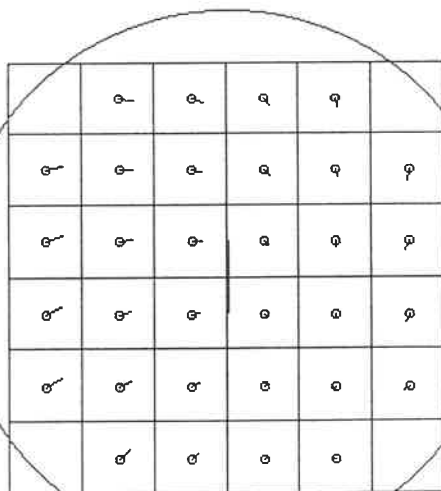


MAX: 0.056
 AVG: 0.016
 MIN: -0.019
 S.D: 0.019
 OUT: 0
 SIZE: 32

MAX: 0.030
 AVG: -0.004
 MIN: -0.057
 S.D: 0.020
 OUT: 0
 SIZE: 32

VECTOR MAP

—S204085 CANON/AGA/RESC(15A) MOD



SCALE: 0.10 um.

COEFFICIENTS

S204085 CANON/AGA/RESC(15A)

TRANSLATION	X	16 nm.
	Y	-4 nm.
ROTATION		-0.37 nm/mm
SCALE	X	-0.53 nm/mm
	Y	-0.28 nm/mm
ORTHOGONALITY		0.25 nm/mm
RESIDUAL (rms)	X	8 nm.
	Y	14 nm.