

FPA-2500i3

Fine Pattern Aligner

ACCEPTANCE DATA

For: AMI Semiconductor
Belgium.

Product Name	FPA-2500i3
Serial No.	406560
Order No.	
Inspection Date	22 nd September 2006

Canon

Inspected by: Chris Howells

Applications Engineering Department

Canon Europa NV,

Paisley Grove,

Chilwell Meadows Business Park,

Beeston,

Nottingham, NG9 6DJ.



Serial No. #406560

AMI ID : Stepper 11

Acceptance Results for FPA-2500i3

AMI Semiconductor

UNIT	ITEM	SPEC	RESULT	JUDGE
1. ILLUMINATOR	Intensity (Normal illumination)	≥550mW	821	OK
	Uniformity (Normal Illumination)	Within +/-1.2%	0.9	OK
	Dose Control Accuracy	≤1.2%	0.54	OK
	Masking Blade Accuracy	≤+/-100um	-75	OK
2. AUTO FOCUS SYSTEM	Focus Repeatability	≤0.12um	0.077	OK
	Die by Die levelling Repeatability - X (3S)	≤10ppm	2.95	OK
	Die by Die levelling Repeatability - Y (3S)	≤10ppm	2.70	OK
	Global Levelling Repeatability - X (3s)	≤10ppm	2.23	OK
	Global Levelling Repeatability - Y (3s)	≤10ppm	2.17	OK
3. AUTO ALIGNMENT SYSTEM	Reticle Rotation Accuracy	≤ +/-0.02um	0.007	OK
	Reticle Rotation Repeatability (Range)	≤ +/-0.03um	0.015	OK
	AGA Accuracy Mode 1 - X		0.063	OK
	AGA Accuracy Mode 1 - Y		0.044	OK
	AGA Accuracy Mode 4 - X		0.066	OK
	AGA Accuracy Mode 4 - Y	≤0.07um (M+3s)	0.052	OK
	Total Overlay Mode 1 (to AMI ref wafer) - X		0.076	OK
4. XY STAGE PERFORMANCE	Total Overlay Mode 1 (to AMI ref wafer) - Y		0.085	OK
	Total Overlay Mode 4 (to AMI ref wafer) - X		0.061	OK
	Total Overlay Mode 4 (to AMI ref wafer) - Y	≤0.14um (M+3s)	0.103	OK
	Scaling (Reference Wafer, X or Y)	≤ +/-1.0ppm	0.06	OK
	Orthogonality (Reference Wafer)	≤ +/-1.0ppm	-0.16	OK
5. PREALIGNMENT	Stepping Accuracy - X-X (3s)	≤0.060um	0.016	OK
	Stepping Accuracy - Y-Y (3s)	≤0.060um	0.026	OK
	Mechanical Prealignment Accuracy	≤ +/-40um 3s	23.4	OK
6. THROUGHPUT	HeNe Mode1, 45 shots 20mm Tilt ON	57wph	58.7	OK
	Expo 0.16 secs, Sub 4 Main 8. Tilt OFF	62wph	62.4	OK
7. RELIABILITY	Wafer Feeding : 500 wafers cycled (AGA)	500	511	OK
	75 times reticle handling	50	50	OK
8. LENS PERFORMANCE	Resolution (Normal Illumination - 0.40um L&S)	0.40um or better	0.40	OK
	CD Depth of Focus (Normal Illumination - 0.40um L&S)	≥1.0um Range	1.47	OK
	Image Field Deviation (Normal Illumination - 0.40um L&S)	≤0.50um	0.13	OK
	Distortion (Norm II Ex Mag) - Max	Within +/-0.070um	-0.034	OK
	Intrafield (Norm II Ex Mag - Si Ref Wafer) - Max	Within +/-0.070um	0.037	OK



Intensity and Uniformity Data Sheet.

X Area20.0mm

Y Area22.5mm

X Step1.0mm

Y Step1.125mm

Intensity821mm

Uniform0.90mm

Machine2500i3

Ser No.#406560

Date14-Sep-06

Cust IDStepper 11

IL Mode

Mode 1

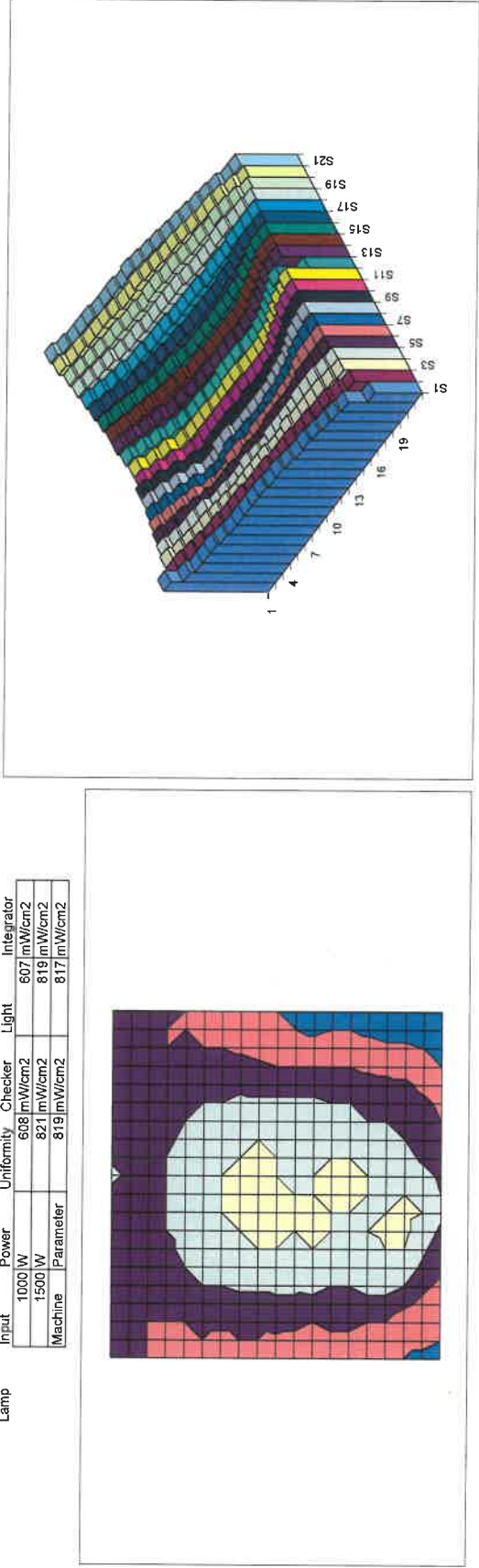
Lamp Hr1900

AM/ Semiconductor

	-10.0	-9.0	-8.0	-7.0	-6.0	-5.0	-4.0	-3.0	-2.0	-1.0	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
11.3	102.4	101.9	101.7	101.7	101.7	101.6	101.5	101.5	101.5	101.5	101.5	101.4	101.4	101.3	101.2	101.2	101.1	101	100.9	100.8	100
10.1	101.8	101.8	101.7	101.6	101.5	101.5	101.4	101.4	101.4	101.3	101.3	101.3	101.2	101.2	101.2	101.1	101.1	101	101	100.8	100.6
9.0	101.8	101.6	101.5	101.4	101.4	101.3	101.2	101.2	101.1	101.1	101.1	101.1	101	101	101.1	101	101	101	101	100.9	100.8
7.9	101.7	101.5	101.4	101.4	101.3	101	101	100.9	100.9	101	100.9	100.8	100.9	100.9	100.9	100.9	101	101	101	100.9	100.8
6.8	101.6	101.4	101.3	101.1	100.9	100.7	100.7	100.7	100.6	100.7	100.8	100.6	100.7	100.7	100.7	100.7	100.8	100.9	100.9	100.9	100.8
5.6	101.5	101.3	101.1	100.9	100.5	100.3	100.3	100.5	100.5	100.3	100.4	100.4	100.4	100.4	100.5	100.5	100.6	100.8	100.9	100.9	100.9
4.5	101.4	101.2	100.9	100.6	100.2	100.1	100.2	100.3	100.2	100.2	100.1	100.1	100.2	100.2	100.3	100.4	100.5	100.7	100.8	100.9	100.9
3.4	101.3	101.1	100.8	100.4	100	100	100.2	100.2	100	100	100	100	100	100.1	100.2	100.3	100.4	100.6	100.8	100.9	101
2.3	101.3	101	100.6	100.2	99.9	99.9	100	100	100	99.9	100	99.9	99.9	100	100	100.2	100.4	100.5	100.8	100.9	101
1.1	101.1	100.8	100.4	100	100	100	100	100	100	99.9	99.9	99.9	99.9	100	100	100.2	100.4	100.5	100.8	100.9	101
0.0	101.1	100.7	100.5	100.1	100	100	100	100	99.9	100	100	99.9	99.9	100	100	100.1	100.3	100.5	100.7	100.8	101
-1.1	101.2	100.9	100.6	100.3	100.1	100	100	99.9	99.9	100	100	100	99.9	100	100	100.1	100.3	100.5	100.7	100.8	100
-2.3	101.3	101.1	100.8	100.6	100.3	100.2	100.1	100	100	100	100	100	99.9	100	100	100.1	100.3	100.5	100.7	100.8	100
-3.4	101.3	101.1	100.9	100.7	100.5	100.4	100.3	100.1	100.1	100	100	100	100	100	100	100.2	100.3	100.5	100.7	100.8	100.9
-4.5	101.4	101.2	101	100.8	100.6	100.5	100.5	100.5	100.2	100.2	100.2	100.2	100.2	100.2	100.3	100.3	100.5	100.6	100.8	100.9	100.9
-5.6	101.5	101.3	101.1	100.9	100.8	100.7	100.6	100.5	100.5	100.4	100.4	100.4	100.4	100.4	100.5	100.5	100.8	100.9	100.9	100.9	100.9
-6.8	101.6	101.4	101.2	101.1	100.9	100.9	100.8	100.8	100.8	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.8	100.9	100.9	100.8	100.8
-7.9	101.7	101.6	101.5	101.4	101.2	101.1	101.1	101	101	101	101	101	101	101	101	101	101	101	101	100.8	100.7
-9.0	101.8	101.7	101.6	101.5	101.4	101.3	101.3	101.3	101.2	101.3	101.3	101.2	101.2	101.1	101	101	100.9	101	100.9	100.8	100.6
-10.1	102	101.8	101.8	101.7	101.7	101.7	101.6	101.5	101.5	101.6	101.5	101.4	101.3	101.3	101.2	101.1	101	101	100.9	100.8	100.5
-11.3	102.1	101.9	101.8	101.7	101.8	101.7	101.7	101.7	101.6	101.7	101.6	101.5	101.4	101.3	101.2	101.1	101	100.9	100.8	100.7	100.6

Distribution Illumination =		0.9
Max Value		101.8
Min Value		99.9

Center Lamp	Measuremet Data			
	Position Input	Power	Checker	Integrator
	1000 W		608 mW/cm2	607 mW/cm2
	1500 W		821 mW/cm2	819 mW/cm2
	Machine	Parameter	819 mW/cm2	817 mW/cm2





Dose Control Accuracy.

FPA-2500i3

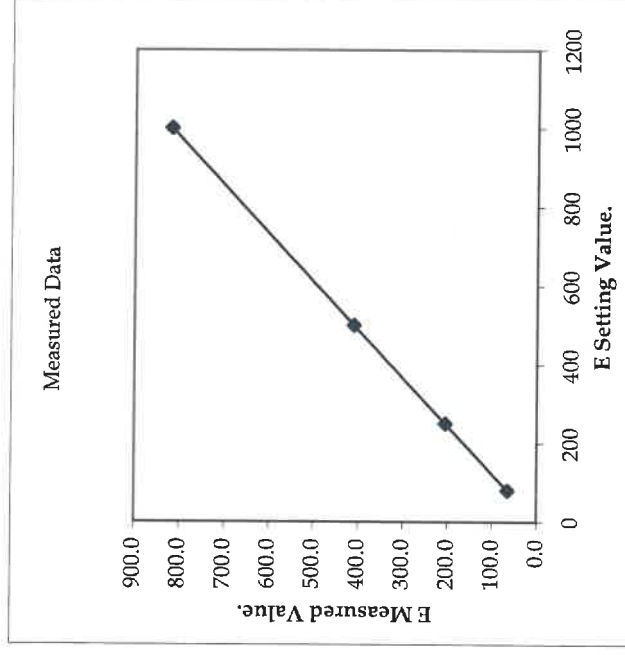
Machine Number : 406560
Machine ID : Stepper 11
Customer : AMI
Date : 11/9/2006

Lamp Intensity	819	W/m2
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Time (ms)	80	250	500	1000
Set Value	65.5	204.8	409.5	819.0
E _{max}	65.4	205.1	410.2	820.5
E _{min}	65.1	204.7	409.7	818.8
E _{mean}	65.2	204.9	410.0	819.7
Repeatability	0.23	0.10	0.06	0.10
Set Error	-0.49	0.07	0.12	0.09

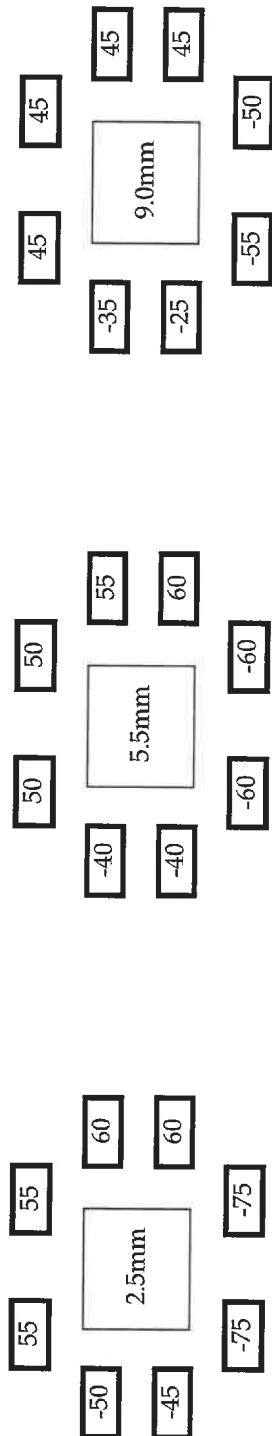
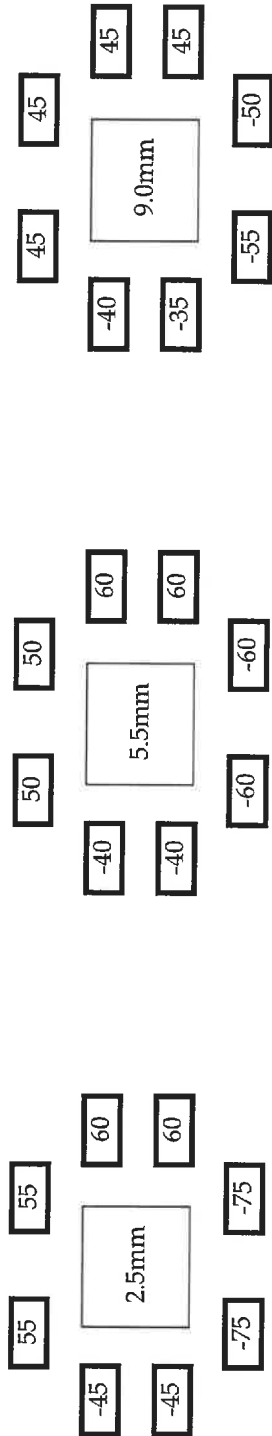
Linearity	0.31
Overall Accuracy	0.54

Spec +/-0.5 %
Spec +/-1.0 %





Masking Blade Accuracy



Rotation **-739** ppm

Canon.	Focus Drive Repeatability Wafer 1.	Customer	AMI
		Date	11/09/06
		Machine	FPA-2500i3
		Serial Number	406560
		AMI ID	Stepper 11
		Wafer	Super Flat

☐ ***** Wafer No. = 1 *****

☐ *** Tilt Focus Parameter ***

☐ LED Light Control Mode : Auto LED Measure Mode : Averaging

☐ Wafer Condition : 0 Focus Option Mode : 0

☐ TILT Comp. Mode : D/D Open-Loop Best Focus Mode : Average

☐ Pattern Offset Mode : Auto

☐ Pattern Offset Value : CH-1 CH-2 CH-3 CH-4 CH-5

☐ main : -.02 -.02 0.00 -.01 -.02

☐ sub : -.02 -.02 -.01 -.01

☐ CH-1 CH-2 CH-3 CH-4 CH-5 FOCUS X_ppm Y_ppm

☐ *SH 1:(M M M M M .03 .02 0.00 .01 .06 .02 1.0 -.3
☐ *SH 2:(M M M M M 0.00 .04 .01 .01 .01 .01 1.0 .4
☐ *SH 3:(M M M M M -.05 0.00 -.05 -.03 0.00 -.02 2.4 -.3
☐ *SH 4:(M M M M M .05 .02 .03 .01 .03 .02 -.2 1.1
☐ *SH 5:(M M M M M -.05 .02 -.03 .01 -.04 -.01 .5 .1
☐ *SH 6:(M M M M M -.02 -.01 -.01 0.00 -.01 0.00 0.0 -.6
☐ *SH 7:(M M M M M 0.00 0.00 -.01 0.00 -.01 0.00 -.1 0.0
☐ *SH 8:(M M M M M -.02 0.00 -.04 -.01 -.03 -.02 0.0 .1
☐ *SH 9:(M M M M M 0.00 -.02 -.03 -.02 0.00 -.01 -.2 .1
☐ *SH 10:(M M M M M .03 .03 .03 .03 .02 .02 -.2 .4
☐ *SH 11:(M M M M M .08 -.01 .06 .01 .07 .04 -.8 -.3
☐ *SH 12:(M M M M M 0.00 -.03 -.03 -.02 -.02 -.01 -1.0 .3
☐ *SH 13:(M M M M M 0.00 -.02 0.00 .01 -.01 0.00 -.8 -.7
☐ *SH 14:(M M M M M .07 .06 0.00 .05 .02 .03 -1.2 1.7
☐ *SH 15:(M M M M M .04 .05 .04 .05 .03 .03 -.4 .4
☐ *SH 16:(M M M M M .04 .06 .04 .04 .05 .04 1.1 .3
☐ *SH 17:(M M M M M -.03 -.04 -.04 -.03 -.03 -.03 -.2 -.3
☐ *SH 18:(M M M M M -.05 -.09 -.06 -.04 -.04 -.05 -1.1 -2.1
☐ *SH 19:(M M M M M -.03 -.03 -.03 0.00 .01 -.01 .2 -1.8
☐ *SH 20:(M M M M M 0.00 -.06 0.00 -.02 -.01 -.01 -1.5 -1.1
☐ *SH 21:(M M M M M -.07 0.00 -.04 -.01 -.08 -.04 -.1 .5
☐ *SH 22:(M M M M M -.01 -.11 -.02 -.09 0.00 -.04 -.3 -.5
☐ *SH 23:(M M M M M -.08 .03 -.07 .03 -.07 -.03 0.0 -.3
☐ *SH 24:(M M M M M -.01 0.00 0.00 0.00 .01 0.00 .6 -.5
☐ *SH 25:(M M M M M -.01 -.03 .02 -.04 .01 -.01 1.1 -.1
☐ *SH 26:(M M M M M .02 0.00 .01 -.01 0.00 0.00 0.0 .6
☐ *SH 27:(M M M M M .04 .02 .01 0.00 -.02 0.00 -1.2 2.5
☐ *SH 28:(M M M M M 0.00 -.05 -.07 -.05 0.00 -.03 0.0 -.2
☐ *SH 29:(M M M M M .03 -.05 -.11 -.01 -.01 -.03 -2.3 0.0
☐ *SH 30:(M M M M M .01 .02 .01 0.00 .05 .01 1.8 -.2
☐ *SH 31:(M M M M M -.01 -.04 -.03 -.01 -.02 -.02 -1.3 -.4
☐ *SH 32:(M M M M M -.08 -.02 -.09 -.02 -.06 -.05 .5 -.6

Result :

	Focus	X Tilt	Y Tilt
3 Sigma	0.074um	2.95ppm	2.57ppm

Canon.	Focus Drive Repeatability Wafer 2.	Customer	AMI
		Date	11/09/06
		Machine	FPA-2500i3
		Serial Number	406560
		AMI ID	Stepper 11
		Wafer	Super Flat

☐ ***** Wafer No. = 1 *****

☐ *** Tilt Focus Parameter ***

☐ LED Light Control Mode : Auto LED Measure Mode : Averaging

☐ Wafer Condition : 0 Focus Option Mode : 0

☐ TILT Comp. Mode : D/D Open-Loop Best Focus Mode : Average

☐ Pattern Offset Mode : Auto

☐ Pattern Offset Value : CH-1 CH-2 CH-3 CH-4 CH-5

☐ main : -.01 -.02 0.00 .03 .01

☐ sub : -.02 -.01 .03 .01

☐ CH-1 CH-2CH-3 CH-4 CH-5 FOC X_ppm Y_ppm

☐ *SH 1:(M M M M M .03 0.00 -.01 .01 .03 .01 -.1 0.0

☐ *SH 2:(M M M M M .06 .08 .06 .08 .05 .06 -.4 .4

☐ *SH 3:(M M M M M .01 .04 0.00 .02 .02 .01 .8 .5

☐ *SH 4:(M M M M M .04 0.00 .04 .05 .05 .03 -.9 -1.6

☐ *SH 5:(M M M M M 0.00 .06 .02 .08 -.01 .02 -.7 -.2

☐ *SH 6:(M M M M M -.04 -.01 -.02 -.01 -.03 -.02 .3 -.1

☐ *SH 7:(M M M M M -.04 -.04 -.04 -.02 -.04 -.03 -.4 -.6

☐ *SH 8:(M M M M M -.02 0.00 -.02 .03 -.01 0.00 -.6 -1.1

☐ *SH 9:(M M M M M .01 -.01 -.01 -.01 -.01 0.00 -.8 .4

☐ *SH 10:(M M M M M -.06 -.07 -.05 -.02 -.05 -.04 -1.4 -1.6

☐ *SH 11:(M M M M M .01 -.06 0.00 -.06 0.00 -.02 -.1 .2

☐ *SH 12:(M M M M M -.01 -.02 -.02 -.03 -.02 -.01 -.1 .6

☐ *SH 13:(M M M M M .01 0.00 .01 .01 0.00 0.00 -.4 0.0

☐ *SH 14:(M M M M M .09 .08 .01 .07 .03 .05 -1.5 2.0

☐ *SH 15:(M M M M M 0.00 .03 .02 .05 .03 .02 .1 -1.2

☐ *SH 16:(M M M M M .01 .02 -.01 0.00 0.00 0.00 0.0 .8

☐ *SH 17:(M M M M M -.02 -.02 -.02 0.00 -.02 -.01 -.5 -.8

☐ *SH 18:(M M M M M -.04 -.09 -.06 -.04 -.04 -.05 -1.2 -1.5

☐ *SH 19:(M M M M M -.08 -.05 -.07 -.05 -.02 -.05 1.9 -1.5

☐ *SH 20:(M M M M M -.03 -.06 -.02 -.04 -.01 -.03 -.1 -1.1

☐ *SH 21:(M M M M M -.10 -.02 -.04 0.00 -.07 -.04 .3 -1.2

☐ *SH 22:(M M M M M 0.00 -.08 0.00 -.08 .02 -.02 .2 -.6

☐ *SH 23:(M M M M M -.06 .05 -.05 .04 -.04 -.01 .8 -.3

☐ *SH 24:(M M M M M -.02 -.02 -.02 -.03 -.04 -.02 -.3 .9

☐ *SH 25:(M M M M M 0.00 -.03 .02 -.04 -.02 -.01 -.1 .8

☐ *SH 26:(M M M M M -.03 -.03 -.02 -.03 -.02 -.02 .2 -.2

☐ *SH 27:(M M M M M -.04 -.02 -.02 -.03 -.02 -.02 .8 -.2

☐ *SH 28:(M M M M M .01 -.03 -.03 -.01 .04 0.00 .2 -1.5

☐ *SH 29:(M M M M M .03 -.01 -.09 -.01 .02 -.01 0.0 .1

☐ *SH 30:(M M M M M -.03 -.02 -.03 -.05 -.02 -.02 .9 .7

☐ *SH 31:(M M M M M -.04 -.04 -.04 -.02 -.02 -.03 .2 -1.3

☐ *SH 32:(M M M M M -.05 0.00 -.08 .01 -.05 -.03 -.2 -.2

Result :

	Focus	X Tilt	Y Tilt
3 Sigma	0.077um	2.10ppm	2.70ppm

Canon.	Focus Drive Repeatability Wafer 3.	Customer	AMI
		Date	11/09/06
		Machine	FPA-2500i3
		Serial Number	406560
		AMI ID	Stepper 11
		Wafer	Super Flat

☐ ***** Wafer No. = 1 *****

☐ *** Tilt Focus Parameter ***

☐ LED Light Control Mode : Auto LED Measure Mode : Averaging

☐ Wafer Condition : 0 Focus Option Mode : 0

☐ TILT Comp. Mode : D/D Open-Loop Best Focus Mode : Average

☐ Pattern Offset Mode : Auto

☐ Pattern Offset Value : CH-1 CH-2 CH-3 CH-4 CH-5

☐ main : -.01 -.02 0.00 .02 -.01

☐ sub : -.02 -.02 .01 0.00

☐ CH-1 CH-2 CH-3 CH-4 CH-5 FOCUS X_ppm Y_ppm

☐ *SH 1:(M M M M M .04 .01 .01 .03 .06 .02 .2 -1.2

☐ *SH 2:(M M M M M .01 .02 .01 .03 .01 .01 0.0 -.3

☐ *SH 3:(M M M M M .03 .03 .01 .05 .02 .02 -.6 -.1

☐ *SH 4:(M M M M M .04 .02 .03 .02 .04 .02 .1 -.2

☐ *SH 5:(M M M M M -.03 0.00 -.03 .03 -.05 -.01 -1.6 -.2

☐ *SH 6:(M M M M M -.03 -.02 -.02 0.00 -.01 -.01 -.1 -1.0

☐ *SH 7:(M M M M M 0.00 -.02 -.01 .01 -.01 0.00 -.9 -.5

☐ *SH 8:(M M M M M .01 .05 .01 .03 .02 .02 .6 .4

☐ *SH 9:(M M M M M -.01 -.03 -.03 -.03 -.02 -.02 -.6 .4

☐ *SH 10:(M M M M M -.03 -.03 -.04 -.05 -.06 -.04 -.3 1.3

☐ *SH 11:(M M M M M .04 -.03 .03 -.05 .03 0.00 .1 .7

☐ *SH 12:(M M M M M 0.00 .01 0.00 -.01 .02 0.00 1.2 -.2

☐ *SH 13:(M M M M M -.04 -.06 -.04 -.04 -.05 -.04 -.8 -.2

☐ *SH 14:(M M M M M .04 .02 -.04 0.00 -.03 0.00 -1.5 2.7

☐ *SH 15:(M M M M M .02 .03 .02 .02 .01 .01 -.2 .4

☐ *SH 16:(M M M M M .03 .04 .02 .03 .04 .03 .7 0.0

☐ *SH 17:(M M M M M -.04 -.03 -.03 -.03 -.02 -.02 .4 -.3

☐ *SH 18:(M M M M M .03 -.01 0.00 .01 0.00 0.00 -1.0 .3

☐ *SH 19:(M M M M M .02 .01 -.01 .01 .01 0.00 -.1 .5

☐ *SH 20:(M M M M M .01 -.02 .02 -.02 .01 0.00 -.2 -.2

☐ *SH 21:(M M M M M -.02 .04 .02 .06 -.02 .01 -.5 -.8

☐ *SH 22:(M M M M M .02 -.07 .02 -.07 .03 -.01 .2 -.6

☐ *SH 23:(M M M M M -.04 .06 -.04 .04 -.05 0.00 .1 .7

☐ *SH 24:(M M M M M -.02 -.03 -.02 -.02 -.03 -.02 -.6 0.0

☐ *SH 25:(M M M M M -.01 -.05 .01 -.04 -.02 -.02 -.4 .1

☐ *SH 26:(M M M M M -.01 -.05 -.02 -.01 -.03 -.02 -1.4 -.7

☐ *SH 27:(M M M M M -.02 -.03 -.02 -.02 -.04 -.02 -.6 .3

☐ *SH 28:(M M M M M .01 -.05 -.06 -.04 .01 -.02 -.2 -.1

☐ *SH 29:(M M M M M .01 0.00 -.09 -.03 .04 -.01 2.0 0.0

☐ *SH 30:(M M M M M -.01 -.03 -.03 -.03 -.02 -.02 -.1 .3

☐ *SH 31:(M M M M M 0.00 -.03 -.03 -.02 -.03 -.02 -.9 .7

☐ *SH 32:(M M M M M -.04 0.00 -.05 .04 -.02 -.01 -.7 -1.6

Result :

	Focus	X Tilt	Y Tilt
3 Sigma	0.51um	2.24ppm	2.32ppm

Reticle Rotation Accuracy**AMI Semiconductor**Serial No 506460
AMI ID Stepper 11
Date 19/9/06

	1	2	3	4	5	Average
1	0.027	0.017	0.024	0.016	0.015	0.020
2	0.013	0.011	0.022	0.019	0.013	0.015
3	0.020	0.010	0.020	0.021	0.012	0.016
4	0.002	-0.003	0.012	0.014	0.006	0.006
5	0.011	-0.003	0.012	0.003	0.017	0.008
	Y					0.013

Wafer Summary

Y Max	0.027
Y Min	-0.003
Accuracy	0.007
Repeatability	0.015

Canon.**AGA Accuracy****Mode 1**

Meas No	X	Y
1	-0.007	-0.019
2	-0.002	-0.018
3	-0.001	-0.012
4	-0.010	-0.019
5	-0.035	-0.002
6	0.001	-0.003
7	-0.002	-0.009
8	0.004	-0.001
9	-0.003	-0.018
10	-0.003	-0.027
11	0.002	-0.011
12	0.005	-0.011
13	0.013	-0.008
14	0.010	-0.005
15	0.015	-0.009
16	0.006	-0.013
17	0.030	-0.003
18	0.022	0.009
19	0.020	0.002
20	0.014	0.004
21	0.019	-0.005
22	0.006	0.002
23	0.015	-0.003
24	0.020	0.010
25	0.028	0.004
26	0.031	0.005
27	0.027	0.010
28	0.029	0.005
29	0.035	-0.004
30	0.029	0.000
31	0.028	0.000
32	0.027	-0.008

Mean 0.012 -0.005
 3 Sigma 0.047 0.02773
M + 3s 0.058 0.033

Meas No	X	Y
1	0.026	0.014
2	0.033	0.011
3	0.039	0.019
4	0.033	0.010
5	-0.011	0.019
6	0.033	0.010
7	0.030	0.008
8	0.028	0.013
9	0.024	0.002
10	0.021	0.008
11	0.009	0.010
12	0.025	0.003
13	0.031	0.013
14	0.030	0.015
15	0.031	0.007
16	0.037	0.011
17	0.037	0.009
18	0.019	0.011
19	0.019	0.020
20	0.016	0.013
21	0.019	0.015
22	0.011	0.005
23	0.008	0.012
24	0.020	0.021
25	0.018	0.018
26	0.022	0.009
27	0.022	0.019
28	0.028	0.005
29	0.025	0.002
30	0.019	0.005
31	0.013	0.011
32	0.011	0.001

Mean 0.023 0.011
 3 Sigma 0.031 0.0166
M + 3s 0.054 0.027

Meas No	X	Y
1	0.013	-0.026
2	0.019	-0.019
3	0.015	-0.026
4	0.012	-0.018
5	-0.009	-0.009
6	0.036	-0.032
7	0.033	-0.028
8	0.014	-0.022
9	0.010	-0.022
10	0.005	-0.007
11	0.015	-0.011
12	0.028	-0.011
13	0.030	-0.018
14	0.032	-0.019
15	0.030	-0.028
16	0.030	-0.019
17	0.038	-0.027
18	0.030	-0.021
19	0.028	-0.036
20	0.028	-0.023
21	0.025	-0.010
22	0.027	-0.017
23	0.027	0.005
24	0.027	0.014
25	0.031	-0.002
26	0.039	0.000
27	0.035	0.007
28	0.037	-0.006
29	0.044	0.003
30	0.045	0.000
31	0.043	0.003
32	0.044	-0.004

Mean 0.027 -0.013
 3 Sigma 0.037 0.038
M + 3s 0.064 0.051

Total 3 wafers

	X	Y
Mean	0.020	-0.002
3 sig	0.043	0.042
M + 3 sig	0.063	0.044

Spec <0.070

Canon**AGA Accuracy****Mode 4**

Meas No	X	Y
1	-0.032	-0.003
2	-0.023	0.002
3	-0.015	0.010
4	-0.012	-0.001
5	0.005	0.012
6	-0.006	0.018
7	-0.011	0.013
8	-0.016	0.004
9	-0.015	-0.002
10	-0.023	-0.014
11	-0.014	-0.004
12	-0.005	0.010
13	-0.010	0.009
14	-0.003	0.015
15	0.001	0.017
16	0.010	0.031
17	0.013	0.032
18	0.001	0.025
19	-0.008	0.023
20	-0.002	0.011
21	-0.010	0.022
22	-0.019	0.012
23	-0.014	0.015
24	-0.006	0.023
25	0.003	0.026
26	0.009	0.027
27	0.008	0.025
28	0.017	0.041
29	0.026	0.035
30	0.022	0.040
31	0.010	0.027
32	0.005	0.027

Mean -0.004 0.016
 3 Sigma 0.041 0.04014
 M + 3s 0.044 0.057

Meas No	X	Y
1	-0.028	0.011
2	-0.028	0.020
3	-0.021	0.026
4	-0.018	0.021
5	-0.013	0.028
6	-0.013	0.027
7	-0.018	0.023
8	-0.013	0.016
9	-0.019	0.017
10	-0.021	0.000
11	-0.018	0.006
12	-0.015	0.018
13	-0.010	0.020
14	-0.008	0.029
15	-0.012	0.027
16	0.006	0.026
17	-0.001	0.027
18	-0.011	0.013
19	-0.012	0.020
20	-0.016	0.003
21	-0.013	0.006
22	-0.025	0.000
23	-0.005	-0.004
24	-0.008	0.001
25	-0.001	0.010
26	-0.005	0.022
27	0.004	0.012
28	0.004	0.030
29	0.013	0.023
30	0.005	0.022
31	0.003	0.007
32	-0.002	-0.002

Mean -0.010 0.016
 3 Sigma 0.031 0.031
 M + 3s 0.041 0.047

Meas No	X	Y
1	0.007	0.019
2	0.015	0.017
3	0.012	0.016
4	0.016	0.010
5	0.029	0.038
6	0.015	0.022
7	0.017	0.023
8	0.016	0.018
9	0.010	0.021
10	0.007	0.006
11	0.019	0.015
12	0.022	0.024
13	0.026	0.016
14	0.028	0.018
15	0.029	0.022
16	0.035	0.037
17	0.038	0.039
18	0.036	0.023
19	0.034	0.032
20	0.024	0.022
21	0.018	0.020
22	0.014	-0.002
23	0.027	-0.005
24	0.030	0.016
25	0.033	0.012
26	0.036	0.024
27	0.039	0.025
28	0.046	0.043
29	0.059	0.024
30	0.052	0.020
31	0.047	0.016
32	0.036	0.006

Mean 0.027 0.020
 3 Sigma 0.039 0.032
 M + 3s 0.067 0.052

Total 3 wafers

	X	Y
Mean	0.005	0.017
3 sig	0.061	0.035
M + 3 sig	0.066	0.052

Spec <0.070

Canon.**AGA - Etched Wafer****Mode 1**

Meas No	X	Y
1	0.018	-0.015
2	0.019	-0.030
3	0.017	-0.024
4	0.025	-0.029
5	0.003	-0.015
6	0.003	-0.023
7	0.010	-0.020
8	0.025	-0.033
9	0.032	-0.023
10	0.026	0.008
11	0.027	0.020
12	0.015	-0.007
13	0.008	-0.009
14	-0.013	-0.072
15	0.003	-0.027
16	-0.009	-0.009
17	0.010	0.001
18	0.013	0.006
19	0.018	0.006
20	0.035	0.007
21	0.041	0.033
22	0.051	0.033
23	0.038	0.030
24	0.033	0.009
25	0.021	-0.008
26	0.032	-0.007
27	0.009	-0.013
28	0.017	-0.011
29	0.050	-0.005
30	0.050	-0.005
31	0.049	0.009
32	0.062	0.020

Mean 0.023 -0.006
 3 Sigma 0.054 0.06539
M + 3s 0.077 0.072

Meas No	X	Y
1	0.009	-0.032
2	0.001	-0.032
3	-0.002	-0.041
4	0.006	-0.050
5	-0.021	-0.022
6	-0.006	-0.040
7	0.006	-0.043
8	0.008	-0.050
9	0.010	-0.040
10	0.019	-0.007
11	0.019	0.029
12	0.007	-0.012
13	-0.001	-0.026
14	-0.020	-0.068
15	-0.029	-0.032
16	-0.039	-0.022
17	-0.018	-0.005
18	-0.015	-0.011
19	0.011	-0.010
20	0.017	0.012
21	0.026	0.016
22	0.028	0.045
23	0.038	0.037
24	0.037	0.010
25	0.012	0.005
26	0.007	0.006
27	-0.005	0.003
28	0.000	-0.014
29	0.034	-0.009
30	0.024	-0.005
31	0.032	0.013
32	0.053	0.020

Mean 0.008 -0.012
 3 Sigma 0.063 0.081
M + 3s 0.070 0.093

Meas No	X	Y
1	0.022	-0.028
2	0.008	-0.042
3	0.015	-0.052
4	0.013	-0.036
5	-0.013	-0.019
6	-0.007	-0.042
7	0.011	-0.041
8	0.014	-0.039
9	0.004	-0.050
10	0.022	-0.021
11	0.019	0.013
12	0.008	-0.011
13	0.007	-0.032
14	-0.020	-0.075
15	-0.018	-0.038
16	-0.020	-0.015
17	-0.004	-0.010
18	0.005	0.007
19	0.014	-0.008
20	0.019	-0.001
21	0.032	0.001
22	0.035	0.019
23	0.027	0.031
24	0.027	0.013
25	0.031	0.010
26	0.023	0.010
27	-0.001	0.001
28	0.005	0.003
29	0.042	-0.009
30	0.039	0.013
31	0.060	0.012
32	0.048	0.023

Mean 0.015 -0.013
 3 Sigma 0.058 0.078
M + 3s 0.073 0.091

Total 3 wafers

	X	Y
Mean	0.015	-0.010
3 sig	0.061	0.075
M + 3 sig	0.076	0.085

Spec <0.14

Canon.**AGA - Etched Wafer****Mode 4**

Meas No	X	Y
1	0.020	0.007
2	0.001	-0.012
3	-0.004	-0.017
4	0.000	-0.010
5	-0.015	-0.001
6	-0.029	0.000
7	-0.007	-0.012
8	0.000	-0.021
9	0.019	-0.009
10	0.030	0.012
11	0.010	0.021
12	0.005	-0.008
13	-0.022	-0.022
14	-0.041	-0.073
15	-0.037	-0.038
16	-0.035	-0.015
17	-0.023	-0.003
18	-0.013	-0.017
19	-0.013	-0.012
20	-0.005	-0.002
21	0.008	-0.005
22	0.015	0.029
23	0.012	0.009
24	0.010	-0.007
25	0.000	-0.019
26	-0.001	-0.011
27	-0.020	-0.011
28	-0.020	-0.017
29	0.014	-0.028
30	0.015	0.000
31	0.013	-0.015
32	0.031	-0.007

Mean -0.003 -0.010
 3 Sigma 0.057 0.05286
M + 3s 0.060 0.063

Meas No	X	Y
1	0.024	0.046
2	0.014	0.026
3	0.016	0.021
4	-0.001	0.022
5	-0.022	0.037
6	-0.010	0.020
7	-0.009	0.024
8	0.015	0.014
9	0.020	0.012
10	0.010	0.055
11	0.003	0.057
12	0.009	0.017
13	-0.008	0.018
14	-0.029	-0.038
15	-0.032	0.007
16	-0.024	0.026
17	-0.016	0.031
18	-0.010	0.029
19	-0.005	0.021
20	0.008	0.018
21	0.019	0.041
22	0.027	0.051
23	0.018	0.045
24	0.015	0.027
25	0.001	0.014
26	0.004	0.008
27	0.000	0.016
28	-0.014	0.020
29	0.007	0.001
30	0.026	0.014
31	0.020	0.016
32	0.030	0.024

Mean 0.003 0.023
 3 Sigma 0.051 0.053
M + 3s 0.054 0.076

Meas No	X	Y
1	0.001	-0.047
2	0.000	-0.064
3	-0.005	-0.070
4	-0.013	-0.049
5	-0.031	-0.038
6	-0.034	-0.039
7	-0.022	-0.048
8	-0.002	-0.056
9	0.002	-0.064
10	-0.002	-0.044
11	-0.018	-0.015
12	-0.024	-0.041
13	-0.035	-0.044
14	-0.049	-0.113
15	-0.039	-0.062
16	-0.044	-0.045
17	-0.031	-0.034
18	-0.024	-0.036
19	-0.009	-0.049
20	-0.002	-0.035
21	0.010	-0.018
22	0.020	-0.002
23	0.005	0.011
24	-0.006	-0.015
25	-0.008	-0.035
26	-0.014	-0.024
27	-0.026	-0.039
28	-0.026	-0.034
29	-0.004	-0.008
30	0.004	-0.014
31	0.009	-0.012
32	0.008	-0.007

Mean -0.013 -0.037
 3 Sigma 0.052 0.072
M + 3s 0.065 0.109

Total 3 wafers

	X	Y
Mean	-0.004	-0.008
3 sig	0.057	0.095
M + 3 sig	0.061	0.103

Spec <0.14



Stepping Accuracy

AMI Semiconductor

FPA-2500i3

Serial No 506460

AMI ID Stepper 11

Wafer 1

Shot	X-X	Y-X	X-Y	Y-Y
1	0.0017	0.0118	-0.0480	-0.0087
2	-0.0082	0.0204	-0.0399	-0.0172
3	-0.0097	0.0403	-0.0519	-0.0181
4	-0.0107	0.0274	-0.0579	-0.0197
5	0.0037	0.0379	-0.0623	-0.0319
6	-0.0083	0.0422	-0.0469	-0.0271
7	-0.0070	0.0319	-0.0592	-0.0268
8	0.0022	0.0361	-0.0424	-0.0306
9	-0.0011	0.0259	-0.0442	-0.0221
10	-0.0078	0.0233	-0.0509	-0.0239
11	-0.0111	0.0264	-0.0334	-0.0092
12	0.0016	0.0254	-0.0281	-0.0054
13	-0.0092	0.0293	-0.0404	-0.0021
14	0.0011	0.0241	-0.0462	-0.0007
15	-0.0093	0.0156	-0.0410	-0.0031
16	-0.0090	0.0248	-0.0520	-0.0026
17	-0.0101	0.0274	-0.0452	-0.0020
18	-0.0038	0.0339	-0.0524	-0.0142
19	-0.0082	0.0314	-0.0549	-0.0046
20	0.0004	0.0360	-0.0520	-0.0277
21	-0.0086	0.0375	-0.0472	-0.0277
22	-0.0085	0.0315	-0.0546	-0.0276
23	0.0039	0.0324	-0.0481	-0.0292
24	-0.0111	0.0306	-0.0562	-0.0291
25	-0.0076	0.0224	-0.0519	-0.0315
26	-0.0032	0.0302	-0.0387	-0.0288
27	-0.0102	0.0267	-0.0474	-0.0326
28	-0.0011	0.0343	-0.0323	-0.0259
29	-0.0093	0.0292	-0.0319	-0.0206
30	-0.0075	0.0301	-0.0263	-0.0268
31	-0.0013	0.0276	-0.0232	-0.0263
32	-0.0110	0.0336	-0.0348	-0.0284
33	-0.0083	0.0285	-0.0308	-0.0204
34	-0.0016	0.0241	-0.0369	-0.0189
35	-0.0124	0.0332	-0.0482	-0.0238
36	-0.0086	0.0368	-0.0407	-0.0305
37	-0.0005	0.0297	-0.0502	-0.0254
38	-0.0105	0.0354	-0.0505	-0.0323
39	0.0002	0.0345	-0.0440	-0.0436
40	-0.0072	0.0319	-0.0550	-0.0256
41	-0.0074	0.0263	-0.0493	-0.0203
42	0.0011	0.0337	-0.0424	-0.0249
43	-0.0106	0.0292	-0.0491	-0.0235
44	-0.0087	0.0255	-0.0396	-0.0282
45	-0.0017	0.0234	-0.0521	-0.0318
46	-0.0134	0.0277	-0.0473	-0.0283
47	-0.0106	0.0223	-0.0345	-0.0285
48	0.0001	0.0256	-0.0386	-0.0316
49	-0.0089	0.0281	-0.0337	-0.0245
50	-0.0106	0.0271	-0.0263	-0.0251
51	-0.0043	0.0237	-0.0079	-0.0162
52	-0.0127	0.0255	-0.0114	-0.0147
53	0.0009	0.0281	-0.0313	-0.0130
54	-0.0109	0.0355	-0.0211	-0.0151
55	-0.0105	0.0291	-0.0363	-0.0157
56	-0.0057	0.0351	-0.0357	-0.0107
57	-0.0141	0.0258	-0.0293	-0.0103
58	-0.0123	0.0224	-0.0427	-0.0165
59	0.0006	0.0308	-0.0335	-0.0214
60	-0.0116	0.0284	-0.0466	-0.0226
61	0.0029	0.0235	-0.0360	-0.0264
62	-0.0110	0.0205	-0.0461	-0.0258
63	-0.0068	0.0316	-0.0428	-0.0300
64	-0.0095	0.0313	-0.0307	-0.0293
65	-0.0018	0.0345	-0.0423	-0.0296
66	-0.0130	0.0333	-0.0289	-0.0244
67	0.0004	0.0320	-0.0330	-0.0246
68	-0.0091	0.0259	-0.0283	-0.0231
69	-0.0137	0.0347	-0.0198	-0.0169
70	0.0006	0.0296	-0.0289	-0.0142
71	-0.0008	0.0348	-0.0251	-0.0133
72	-0.0119	0.0294	-0.0432	-0.0099
73	-0.0087	0.0314	-0.0331	-0.0134
74	0.0010	0.0276	-0.0298	-0.0201
75	-0.0093	0.0243	-0.0458	-0.0196
76	-0.0088	0.0239	-0.0361	-0.0280
77	-0.0153	0.0187	-0.0219	-0.0285
78	0.0021	0.0169	-0.0374	-0.0281
3-Sigma	0.0157	0.0168	0.0332	0.0266

Wafer 2

Shot	X-X	Y-X	X-Y	Y-Y
1	0.0004	0.0249	-0.0472	-0.0102
2	-0.0135	0.0236	-0.0402	-0.0129
3	-0.0123	0.0293	-0.0519	-0.0153
4	-0.0100	0.0299	-0.0535	-0.0257
5	0.0014	0.0291	-0.0567	-0.0220
6	-0.0084	0.0340	-0.0482	-0.0211
7	-0.0087	0.0280	-0.0530	-0.0284
8	0.0008	0.0298	-0.0433	-0.0302
9	-0.0037	0.0286	-0.0419	-0.0256
10	-0.0116	0.0262	-0.0485	-0.0272
11	-0.0093	0.0275	-0.0310	-0.0248
12	-0.0007	0.0251	-0.0288	-0.0156
13	-0.0095	0.0190	-0.0431	-0.0188
14	-0.0028	0.0283	-0.0460	-0.0110
15	-0.0147	0.0277	-0.0384	-0.0148
16	-0.0079	0.0295	-0.0505	-0.0188
17	-0.0168	0.0374	-0.0441	-0.0140
18	-0.0046	0.0333	-0.0544	-0.0125
19	-0.0087	0.0358	-0.0562	-0.0143
20	0.0007	0.0343	-0.0537	-0.0250
21	-0.0097	0.0368	-0.0428	-0.0273
22	-0.0078	0.0306	-0.0519	-0.0258
23	0.0033	0.0341	-0.0433	-0.0271
24	-0.0104	0.0262	-0.0522	-0.0266
25	-0.0102	0.0192	-0.0469	-0.0308
26	-0.0015	0.0266	-0.0397	-0.0257
27	-0.0088	0.0154	-0.0437	-0.0395
28	-0.0048	0.0314	-0.0275	-0.0354
29	-0.0090	0.0287	-0.0331	-0.0155
30	-0.0120	0.0272	-0.0298	-0.0215
31	0.0000	0.0266	-0.0265	-0.0125
32	-0.0160	0.0282	-0.0352	-0.0295
33	-0.0078	0.0264	-0.0348	-0.0285
34	0.0000	0.0314	-0.0368	-0.0261
35	-0.0093	0.0445	-0.0487	-0.0263
36	-0.0109	0.0413	-0.0392	-0.0290
37	-0.0044	0.0425	-0.0497	-0.0243
38	-0.0121	0.0438	-0.0495	-0.0268
39	-0.0003	0.0466	-0.0411	-0.0257
40	-0.0112	0.0435	-0.0540	-0.0195
41	-0.0079	0.0401	-0.0577	-0.0234
42	-0.0014	0.0420	-0.0431	-0.0232
43	-0.0098	0.0349	-0.0562	-0.0231
44	-0.0102	0.0357	-0.0405	-0.0201
45	0.0005	0.0254	-0.0533	-0.0258
46	-0.0124	0.0225	-0.0498	-0.0251
47	-0.0105	0.0233	-0.0345	-0.0213
48	0.0024	0.0282	-0.0371	-0.0258
49	-0.0132	0.0261	-0.0339	-0.0209
50	-0.0119	0.0231	-0.0240	-0.0220
51	-0.0030	0.0270	-0.0063	-0.0152
52	-0.0154	0.0247	-0.0120	-0.0162
53	-0.0004	0.0249	-0.0281	-0.0140
54	-0.0126	0.0235	-0.0200	-0.0113
55	-0.0131	0.0331	-0.0341	-0.0093
56	-0.0033	0.0327	-0.0367	-0.0149
57	-0.0092	0.0308	-0.0298	-0.0110
58	-0.0118	0.0268	-0.0411	-0.0156
59	-0.0015	0.0293	-0.0319	-0.0198
60	-0.0105	0.0303	-0.0495	-0.0262
61	-0.0002	0.0194	-0.0368	-0.0275
62	-0.0112	0.0237	-0.0448	-0.0280
63	-0.0105	0.0288	-0.0448	-0.0301
64	-0.0111	0.0258	-0.0332	-0.0309
65	-0.0032	0.0300	-0.0395	-0.0278
66	-0.0114	0.0343	-0.0305	-0.0259
67	-0.0011	0.0265	-0.0294	-0.0274
68	-0.0122	0.0260	-0.0273	-0.0273
69	-0.0124	0.0290	-0.0163	-0.0190
70	0.0007	0.0303	-0.0204	-0.0249
71	-0.0056	0.0272	-0.0201	-0.0223
72	-0.0115	0.0182	-0.0317	-0.0137
73	-0.0113	0.0226	-0.0229	-0.0152
74	-0.0032	0.0155	-0.0244	-0.0157
75	-0.0096	0.0154	-0.0325	-0.0229
76	-0.0150	0.0209	-0.0305	-0.0279
77	-0.0104	0.0153	-0.0205	-0.0390
78	-0.0028	0.0138	-0.0258	-0.0383
3-Sigma	0.0156	0.0213	0.0348	0.0207

Wafer 3

Shot	X-X	Y-X	X-Y	Y-Y
1	-0.0018	0.0350	-0.0502	-0.0112
2	-0.0127	0.0129	-0.0396	-0.0119
3	-0.0161	0.0326	-0.0493	-0.0261
4	-0.0161	0.0203	-0.0625	-0.0366
5	-0.0023	0.0291	-0.0570	-0.0435
6	-0.0144	0.0339	-0.0477	-0.0384
7	-0.0126	0.0273	-0.0604	-0.0403
8	-0.0026	0.0267	-0.0440	-0.0422
9	-0.0047	0.0303	-0.0399	-0.0399
10	-0.0136	0.0226	-0.0435	-0.0414
11	-0.0149	0.0299	-0.0313	-0.0193
12	-0.0020	0.0317	-0.0232	-0.0094
13	-0.0112	0.0214	-0.0376	-0.0120
14	-0.0064	0.0258	-0.0449	-0.0136
15	-0.0149	0.0299	-0.0379	-0.0147
16	-0.0122	0.0211	-0.0444	-0.0171
17	-0.0162	0.0337	-0.0376	-0.0221
18	-0.0053	0.0252	-0.0503	-0.0195
19	-0.0143	0.0326	-0.0498	-0.0357
20	-0.0038	0.0306	-0.0477	-0.0142
21	-0.0156	0.0298	-0.0445	-0.0182
22	-0.0118	0.0290	-0.0540	-0.0127
23	-0.0011	0.0267	-0.0396	-0.0182
24	-0.0141	0.0206	-0.0517	-0.0169
25	-0.0147	0.0201	-0.0473	-0.0197
26	-0.0050	0.0258	-0.0314	-0.0208
27	-0.0153	0.0254	-0.0383	-0.0214
28	-0.0039	0.0273	-0.0257	-0.0166
29	-0.0163	0.0260	-0.0229	-0.0298
30	-0.0131	0.0288	-0.0287	-0.0229
31	-0.0057	0.0234	-0.0167	-0.0207
32	-0.0182	0.0279	-0.0307	-0.0187
33	-0.0155	0.0289	-0.0281	-0.0172
34	-0.0064	0.0310	-0.0341	-0.0155
35	-0.0177	0.0394	-0.0365	-0.0166
36	-0.0154	0.0388	-0.0299	-0.0162
37	-0.0071	0.0325	-0.0432	-0.0132
38	-0.0153	0.0309	-0.0484	-0.0176
39	-0.0076	0.0372	-0.0334	-0.0195
40	-0.0158	0.0329	-0.0526	-0.0196
41	-0.0135	0.0339	-0.0535	-0.0292
42	-0.0034	0.0277	-0.0394	-0.0282
43	-0.0176	0.0300	-0.0480	-0.0269
44	-0.0117	0.0177	-0.0384	-0.0243
45	-0.0082	0.0277	-0.0476	-0.0219
46	-0.0167	0.0190	-0.0440	-0.0257
47	-0.0150	0.0239	-0.0278	-0.0245
48	-0.0047	0.0246	-0.0324	-0.0216
49	-0.0193	0.0220	-0.0269	-0.0234
50	-0.0167	0.0324	-0.0213	-0.0145
51	-0.0058	0.0251	-0.0095	-0.0177
52	-0.0181	0.0256	-0.0129	-0.0172
53	-0.0041	0.0299	-0.0248	-0.0131
54	-0.0155	0.0254	-0.0177	-0.0168
55	-0.0186	0.0305	-0.0335	-0.0209
56	-0.0083	0.0262	-0.0343	-0.0150
57	-0.0195	0.0291	-0.0201	-0.0182
58	-0.0194	0.0302	-0.0361	-0.0165
59	-0.0083	0.0313	-0.0272	-0.0151
60	-0.0156	0.0344	-0.0493	-0.0281
61	-0.0081	0.0235	-0.0303	-0.0304
62	-0.0159	0.0223	-0.0398	-0.0298
63	-0.0176	0.0194	-0.0400	-0.0334
64	-0.0157	0.0161	-0.0246	-0.0326
65	-0.0088	0.0249	-0.0310	-0.0324
66	-0.0181	0.0191	-0.0215	-0.0285
67	-0.0044	0.0166	-0.0222	-0.0305
68	-0.0161	0.0150	-0.0167	-0.0273
69	-0.0180	0.0212	-0.0149	-0.0215
70	-0.0068	0.0204	-0.0148	-0.0263
71	-0.0099	0.0250	-0.0090	-0.0200
72	-0.0194	0.0184	-0.0251	-0.0212
73	-0.0191	0.0194	-0.0153	-0.0196
74	-0.0093	0.0218	-0.0142	-0.0210
75	-0.0170	0.0200	-0.0261	-0.0214
76	-0.0203	0.0203	-0.0286	-0.0368
77	-0.0218	0.0120	-0.0130	-0.0362
78	-0.0061	0.0107	-0.0196	-0.0353
3-Sigma	-0.0168	0.0184	-0.0394	-0.0253



Mechanical PA Accuracy

AMI

Stepper 11

	XI	YI	Xr	Yr	
1	0.01429	-0.02158	0.01445	0.01079	
2	0.01046	-0.01065	0.01089	0.00556	
3	0.00827	-0.02064	0.00861	0.01022	
4	-0.00452	0.00369	-0.00425	0.00731	
5	0.00899	-0.00914	0.00901	0.00752	
6	0.00567	-0.01248	0.00598	0.017	
7	0.00179	-0.01231	0.002010	0.00357	
8	0.00577	-0.01178	0.00609	0.01009	
9	0.00025	-0.01556	0.000310	0.00259	
10	0.01267	-0.00104	0.01289	0.00754	
Average	0.00636	-0.01115	0.00660	0.00822	mm
3 Sigma	0.01754	0.02342	0.01756	0.01238	mm

Accuracy	17.5	23.4	17.6	12.4	um
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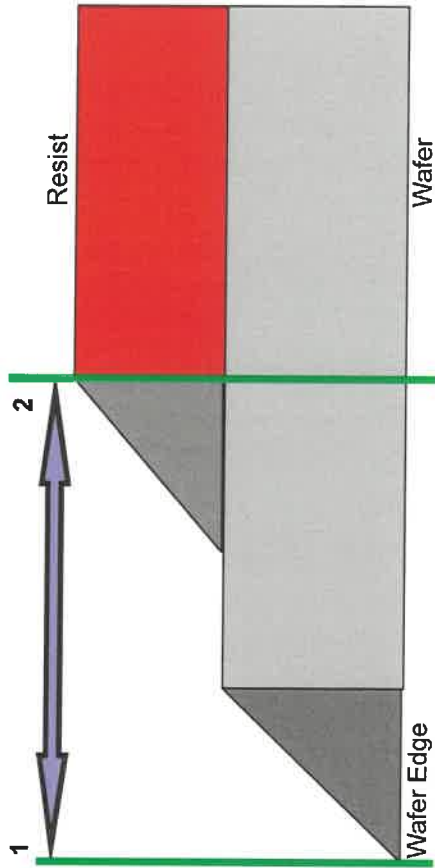
Matching	X	Y	um
	6.5	-1.5	

Y-Diff	19.4	um
Rot	193.7	ppm



Type IV AF EBR Adjustment

AMI Stepper 11



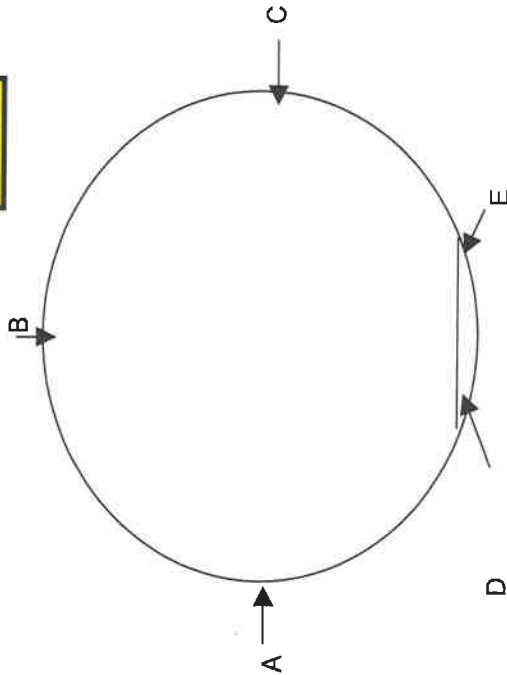
EBR Width Setting Value in ED P
PASH I/O SW orig setting

4.0	mm
8	
8	
8	

(8 = zero setting)

Wafer Type (SEMI, JEIDA)

JEIDA



Edge	Accuracy	Spec
Flat	0.0	+/-0.2
	0.1	+/-0.3

Edge	1	2	Diff
A	74.951	70.925	4.026
B	74.655	70.720	3.935
C	75.026	71.042	3.984
			4.0
			mm
Flat	1	2	Diff
D	71.402	67.625	3.777
E	71.497	67.375	4.122
		Rotation	3.9
			-0.4
			mm
			Deg

**Throughput****AMI****Stepper 11**

45 shots, 160ms timed exposure

D/D Tilt ON

wno	load_wafer	load_wafer	tv_pre_alig	aga	index	[ms]
1	6298	32341	8423	66838	144039	
2	6291	10838	1586	13011	62042	
3	6265	10647	1574	12973	61537	
4	6284	10726	1570	12932	61456	
5	6280	10738	1566	12827	61381	
6	6290	10722	1567	12897	61550	
7	6285	10657	1563	12830	61247	
8	6283	10785	1562	12856	61230	
9	6287	10500	1562	12653	60728	
9	6287	10500	1562	12653	60728	

Average Index Time 61322.11
(Not inc. Wafer 1)

Throughput **58.7** wph

D/D Tilt OFF

wno	load_wafer	load_wafer	tv_pre_alig	aga	index	[ms]
1	6299	32786	8341	66636	140171	
2	6294	10503	1562	12510	57400	
3	6262	10543	1561	12486	57629	
4	6282	10683	1563	12574	57692	
5	6295	10755	1563	12540	57643	
6	6283	10743	1552	12555	57845	
7	6302	10631	1564	12473	57609	
8	6293	10673	1553	12536	57759	
9	6256	10605	1555	12506	57620	
10	6272	10645	1554	12558	57672	

Average Index Time 57652.11
(Not inc. Wafer 1)

Throughput **62.4** wph

Canon Depth of Focus Performance

V		V		V		H		H		H	
UL	Bottom	Top	TfB	Angle	TfB %	Bottom	Top	TfB	Angle	TfB %	Top
1.30	0.3746	0.0758	0.489	83.4	46.9	0.3559					
1.10	0.3746	0.2705	0.552	84.6	55.2	0.3783					
1.00	0.3796	0.2288	0.576	84.7	57.6	0.3945					
0.90	0.3818	0.2224	0.609	85.0	60.9	0.3745					
0.80	0.3818	0.2224	0.609	85.0	60.9	0.3745					
0.70	0.3897	0.2621	0.616	85.4	61.6	0.3852					
0.60	0.3987	0.2921	0.616	85.4	61.6	0.3938					
0.50	0.4006	0.2912	0.652	85.4	65.2	0.3938					
0.40	0.4006	0.2912	0.652	85.4	65.2	0.3989					
0.30	0.4021	0.3020	0.652	85.4	65.2	0.3989					
0.20	0.4021	0.3020	0.652	85.4	65.2	0.4018					
0.10	0.4038	0.2570	0.636	85.1	63.6	0.4012					
0.00	0.3988	0.2593	0.640	85.2	64.0	0.4000					
-0.10	0.3988	0.2593	0.640	85.2	64.0	0.3872					
-0.20	0.3989	0.2593	0.640	85.2	64.0	0.3872					
-0.30	0.3989	0.2593	0.640	85.2	64.0	0.3872					
-0.40	0.3917	0.1980	0.480	83.3	48.0	0.3695					
-0.50	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-0.60	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-0.70	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-0.80	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-0.90	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-1.00	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-1.10	0.3868	0.1980	0.480	83.3	48.0	0.3695					
-1.20	0.3868	0.1980	0.480	83.3	48.0	0.3695					
Mean	0.3939					Mean	0.3875				

V		V		V		H		H		H	
CL	Bottom	Top	TfB	Angle	TfB %	Bottom	Top	TfB	Angle	TfB %	Top
1.30											
1.20	0.4717					0.3732					
1.10	0.4717					0.3732					
1.00	0.4717					0.3732					
0.90	0.4717					0.3732					
0.80	0.4717					0.3732					
0.70	0.4717					0.3732					
0.60	0.4717					0.3732					
0.50	0.4717					0.3732					
0.40	0.4717					0.3732					
0.30	0.4717					0.3732					
0.20	0.4717					0.3732					
0.10	0.4717					0.3732					
0.00	0.4717					0.3732					
-0.10	0.4717					0.3732					
-0.20	0.4717					0.3732					
-0.30	0.4717					0.3732					
-0.40	0.4717					0.3732					
-0.50	0.4717					0.3732					
-0.60	0.4717					0.3732					
-0.70	0.4717					0.3732					
-0.80	0.4717					0.3732					
-0.90	0.4717					0.3732					
-1.00	0.4717					0.3732					
-1.10	0.4717					0.3732					
-1.20	0.4717					0.3732					
Mean	0.4717					Mean	0.3937				

V		V		V		H		H		H	
DL	Bottom	Top	TfB	Angle	TfB %	Bottom	Top	TfB	Angle	TfB %	Top
1.30											
1.20											
1.10	0.4188	0.0736	0.238	79.5	23.8	0.3593					
1.00	0.4223	0.1451	0.400	82.8	40.0	0.3702					
0.90	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.80	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.70	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.60	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.50	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.40	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.30	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.20	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.10	0.4223	0.2029	0.548	84.5	54.8	0.3706					
0.00	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.10	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.20	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.30	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.40	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.50	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.60	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.70	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.80	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-0.90	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-1.00	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-1.10	0.4223	0.2029	0.548	84.5	54.8	0.3706					
-1.20	0.4223	0.2029	0.548	84.5	54.8	0.3706					
Mean	0.4223					Mean	0.3875				

0.40

L&S

AMI

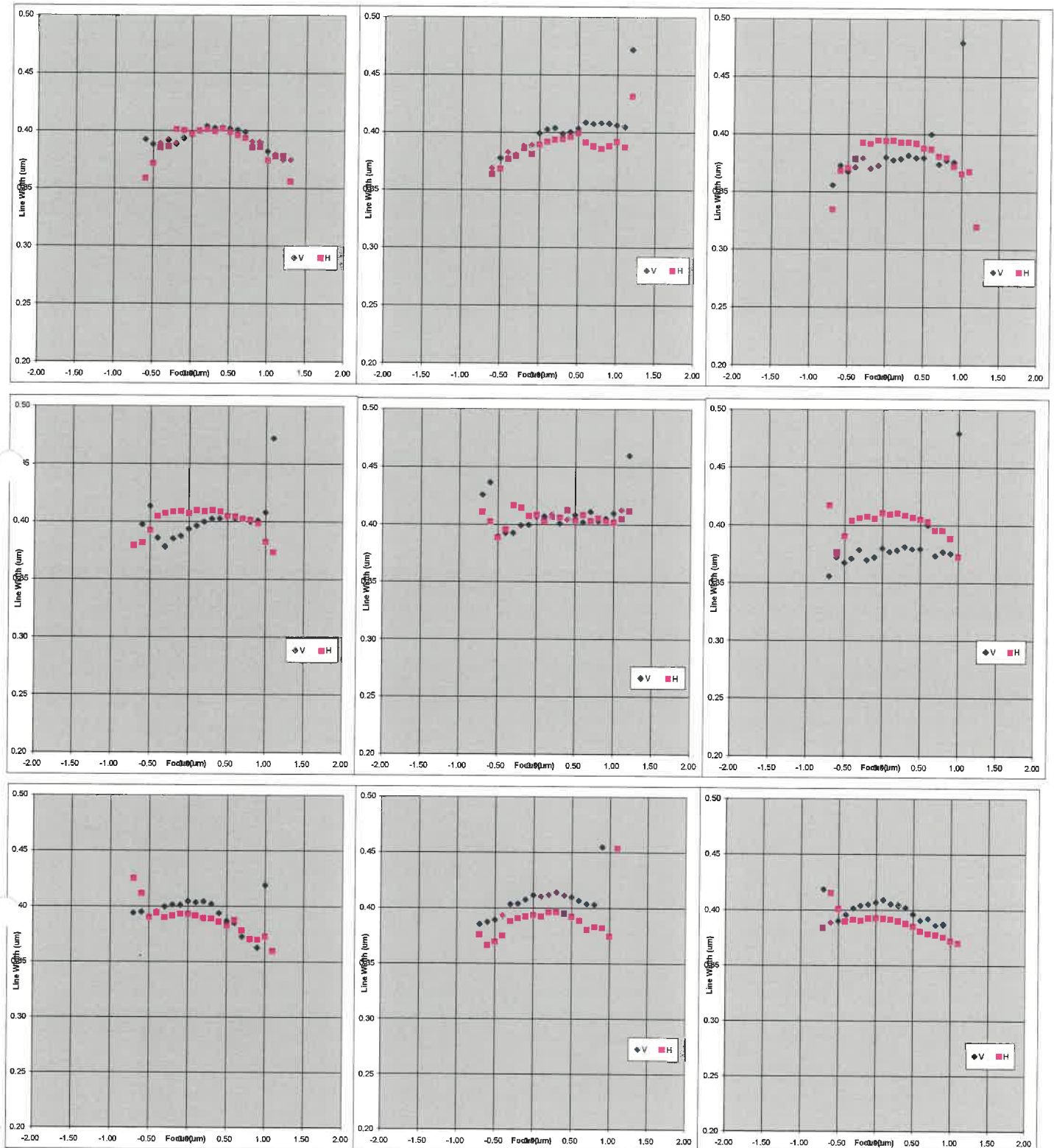
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Stepper 11

FPA-2500i3

V		V		V		H		H		H	
UC	Bottom	Top	TfB	Angle	TfB %	Bottom	Top	TfB	Angle	TfB %	Top
1.30	0.4777					0.4314					
1.20	0.4046	0.2357	0.580	84.5	58.0	0.4129					
1.10	0.4046	0.2357	0.580	84.5	58.0	0.4129					
1.00	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.90	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.80	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.70	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.60	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.50	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.40	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.30	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.20	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.10	0.4046	0.2357	0.580	84.5	58.0	0.4129					
0.00	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.10	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.20	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.30	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.40	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.50	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.60	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.70	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.80	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-0.90	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-1.00	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-1.10	0.4046	0.2357	0.580	84.5	58.0	0.4129					
-1.20	0.4046	0.2357	0.580	84.5	58.0	0.4129					
Mean	0.4003					Mean	0.3987				

V		V		V		H		H		H	
CC	Bottom	Top	TfB	Angle	TfB %	Bottom	Top	TfB	Angle	TfB %	Top
1.30	0.4585	0.2533	0.514	82.8	51.4	0.4118					
1.20	0.4585	0.2533	0.514	82.8	51.4	0.4118					
1.10	0.4585	0.2533	0.514	82.8	51.4	0.4118					
1.00	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.90	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.80	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.70	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.60	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.50	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.40	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.30	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.20	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.10	0.4585	0.2533	0.514	82.8	51.4	0.4118					
0.00	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.10	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.20	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.30	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.40	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.50	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.60	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.70	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.80	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-0.90	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-1.00	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-1.10	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-1.20	0.4585	0.2533	0.514	82.8	51.4	0.4118					
-1.30	0.4585	0.2533	0.514	82.8	51.4	0.4118					



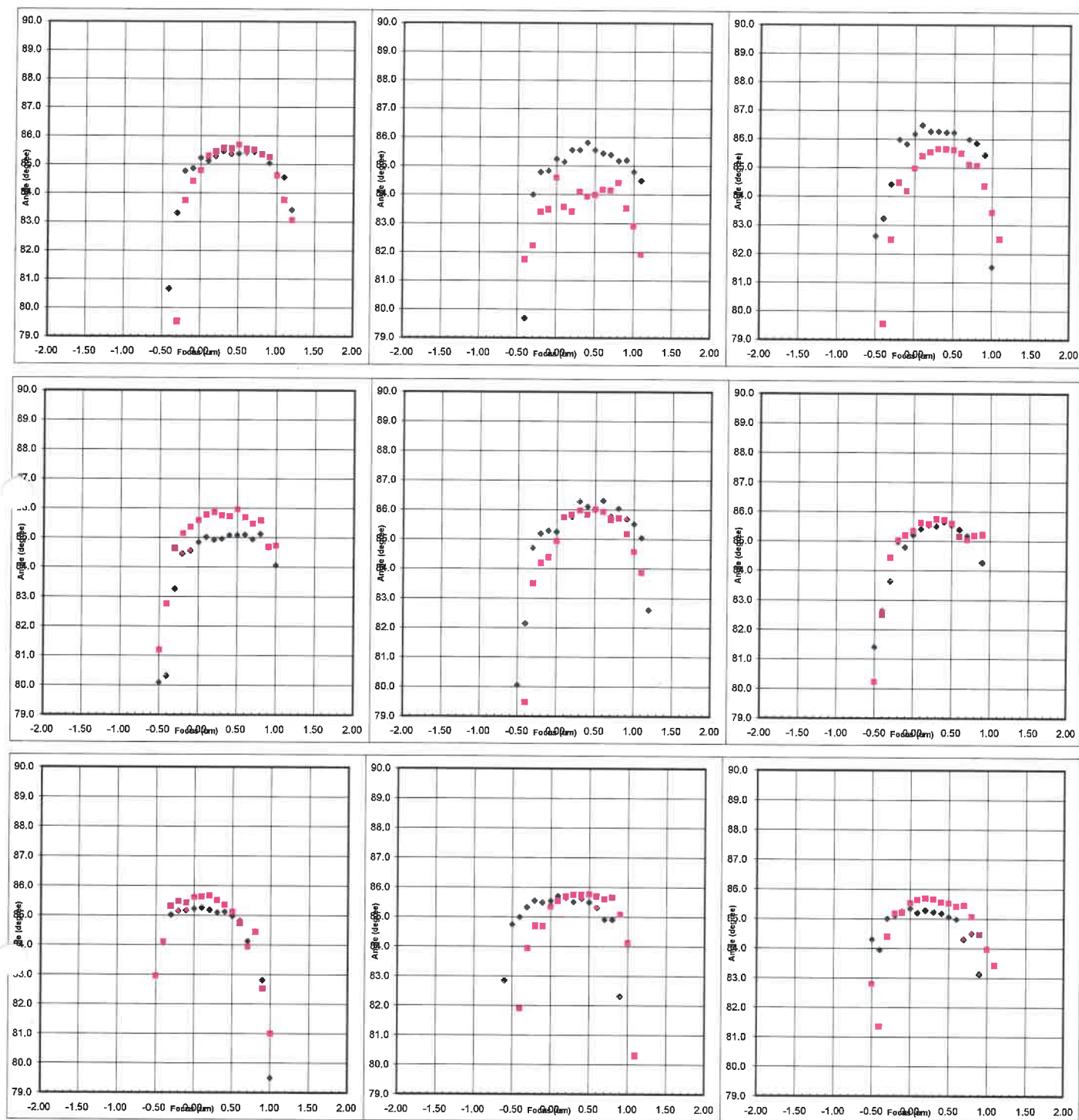
Rt	0.86 umt	Reticle	C705	Customer's ID No.	Stepper 11	NA	0.60	Illumination	Standard	Date of exposure	18/9/2006
Resist	OiR 620	Exposure	225 j/m2	Serial No.	#506460	Sigma	0.60	Line width	0.40 um	Feature	L&S

Canon

CD Performance - 9 Fields

AMI

FPA-2500i3



Rt	0.96 umt	Reticle	C705	Customer's ID No.	Stepper 11	NA	0.60	Illumination	Standard	Date of exposure	18/9/2006
Resist	CIR 620	Exposure	225 j/m2	Serial No.	#506460	Sigma	0.60	Line width	0.40 um	Feature	L&S

Canon

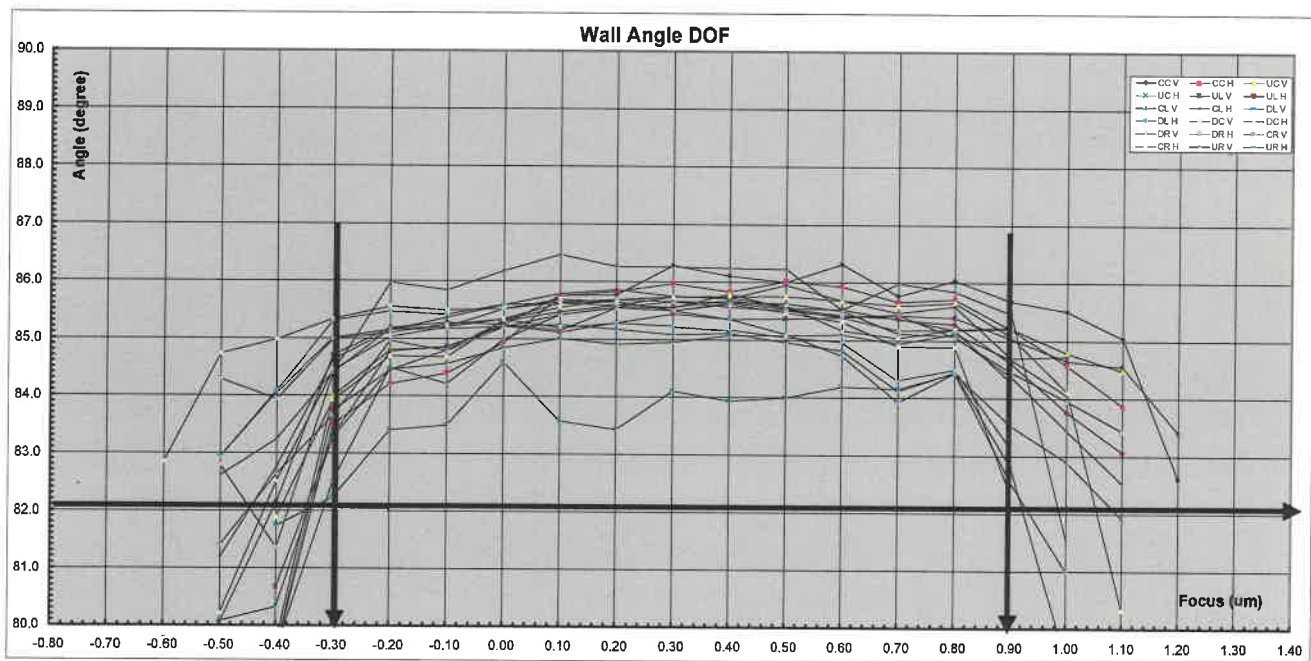
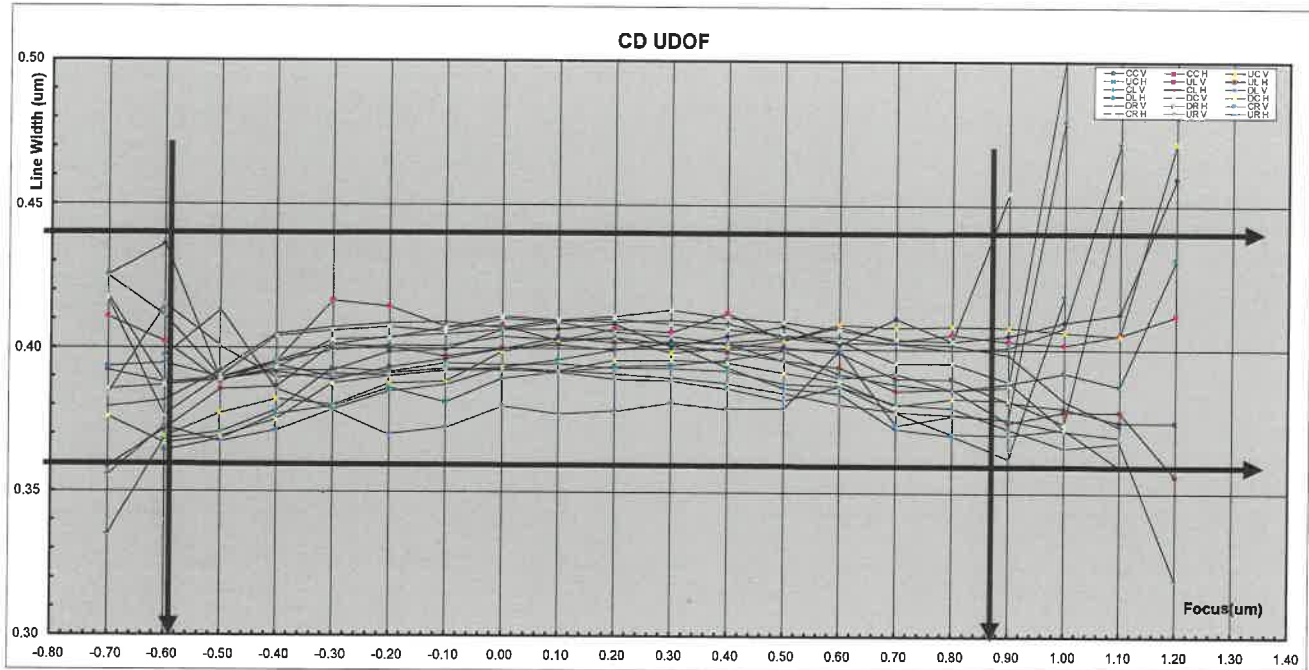
Profile Performance - 9 Fields

AMI

FPA-2500i3

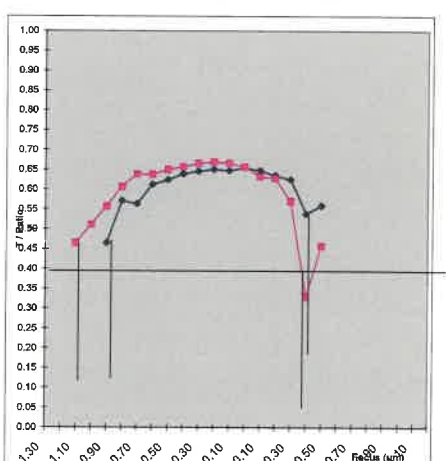
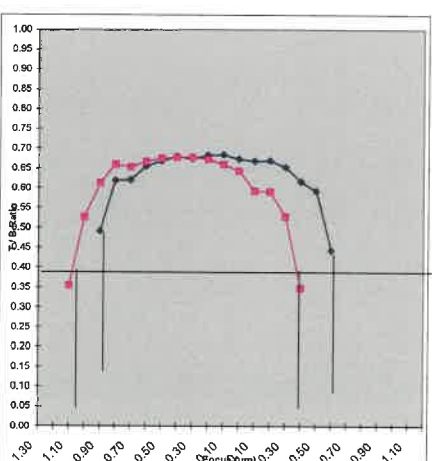
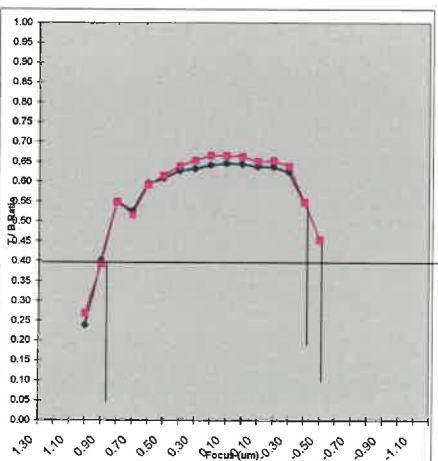
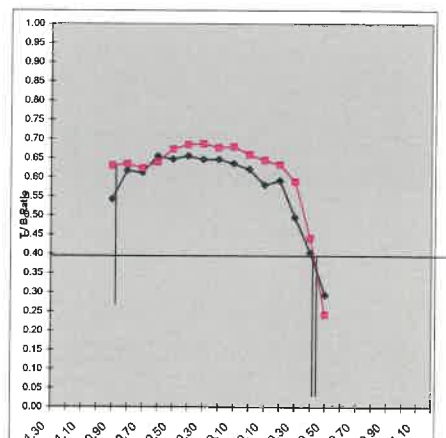
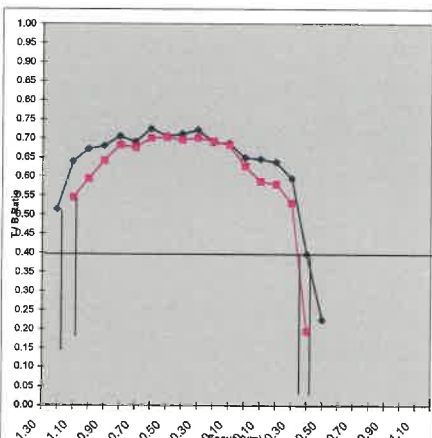
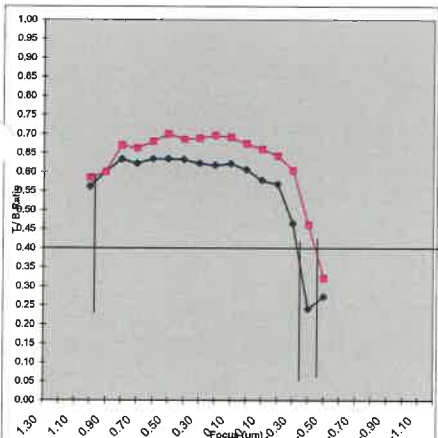
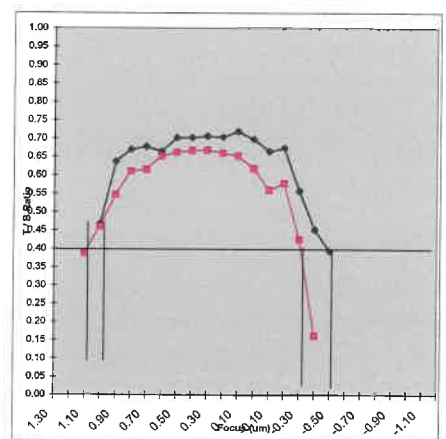
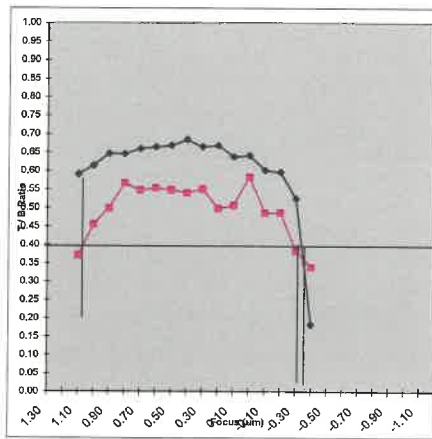
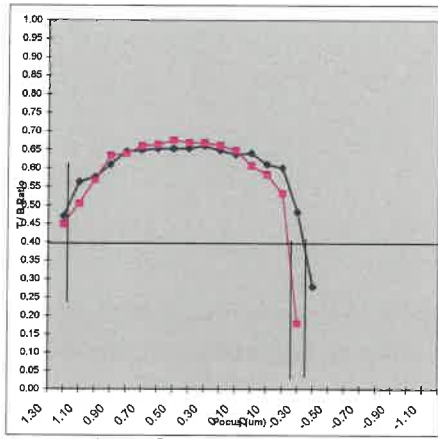
Canon**DOF performance****L&S****0.40 μm** **AMI****FPA-2500i3**

Date of exposure	18/9/2006	Rt	0.66 μm	Reticle	C705	Customer's ID No.	Stepper 11	NA	0.60	Illumination	Standard
		Resist	OIR 620	Exposure	225 J/m^2	Serial No.	#506460	Sigma	0.60	Line width	0.40 μm



CD Depth of Focus @ 0.40 μm 1.47 μm

Wall Angle Depth of Focus for 0.35 μm @ 82.1 deg 1.20 μm



Rt	0.86	umt	Reticle	C705	Customer's ID No.	Stepper 11	NA	0.60	Illumination	Standard	Date of exposure	18/9/2006
Resist	OIR 620	Exposure	225	y/m2	Serial No.	#505460	Sigma	0.60	Line width	0.40 um	Feature	L&S

Canon

Image Field Deviation - 9 Fields

(T / B vs Focus)

AMI

FPA-2500i3

Canon**Lens Performance Data****AMI****Stepper 11****FPA-2500i3**

Rt	0.86 umt	Reticle	C705	Customer's ID No.	Stepper 11	NA	0.60	Illumination	Standard
Resist	OIR 620	Exposure	225 j/m2	Serial No.	#506460	Sigma	0.60	Line width	0.40 um
Date of exposure							18/9/2006	Feature	L&S

From SEM measurement data :

Best Focus

Vertical

0.330	0.280	0.195
0.245	0.300	0.150
0.150	0.145	0.150

Horizontal

0.390	0.310	0.245
0.185	0.290	0.145
0.100	0.160	0.260

Compensation Amount for Tilt

	-10	0	10
10	-0.087	-0.065	-0.044
0	-0.021	0.000	0.021
-10	0.044	0.065	0.087

After compensation

0.273	0.230	0.176	0.226
0.194	0.295	0.169	
0.169	0.218	0.292	0.226
0.212		0.212	

4 corners focus only

0.273	0.176
0.169	0.292

	-10	0	10	Ave Y
10	0.360	0.295	0.220	0.292
0	0.215	0.295	0.148	0.219
-10	0.125	0.153	0.205	0.161
Ave X	0.233	0.248	0.191	

	X	Y
-10	0.233	0.161
0	0.248	0.219
10	0.191	0.292

Tilt
V2.13 -6.54 ppm
6.88 ppm

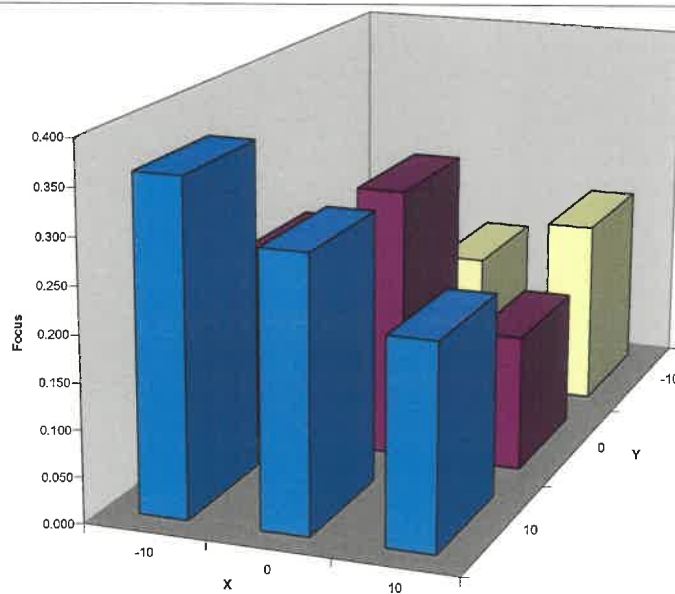
HV Diff

-0.060	-0.030	-0.050
0.060	0.010	0.005
0.050	-0.015	-0.110
		-0.110 um

Focus

Centre	0.295 um
Average	0.224 um

Image Field Deviation - Tilt Comp	0.13 um
Image Field Deviation - Tilt Incl.	0.24 um
(Max - Min)	
Field Curvature - Tilt Comp	-0.07 um
Field Curvature - Tilt Incl.	-0.07 um
(Four corner average - centre)	
Astigmatism	0.11 um



Canon

CD Uniformity

FPA-2500i3

AMI

Stepper 11

#506460

Rt	0.86	umt	Reticle	C705	Customer's ID No.	Stepper 11	NA	0.60	Illumination	Standard	Date of exposure
Resist	OIR 620		Exposure	225	Serial No.	#506460	Sigma	0.60	Line width	0.40	um
											Feature
											L&S

Focus	V	Angle	H	Angle
0.1	0.4006	85.4	0.3961	85.6
BF	0.4017	85.4	0.3989	85.7
-0.1	0.4024	85.4	0.4018	85.6
Average	0.4016	85.4	0.3989	85.6

Focus	V	Angle	H	Angle
0.1	0.4032	85.5	0.3995	84.0
BF	0.4003	85.8	0.3962	83.9
-0.1	0.3986	85.6	0.3943	84.1
Average	0.4007	85.6	0.3967	84.0

Focus	V	Angle	H	Angle
0.1	0.3793	86.2	0.3880	85.6
BF	0.3792	86.2	0.3923	85.7
-0.1	0.3813	86.3	0.3932	85.7
Average	0.3799	86.2	0.3912	85.6

Focus	V	Angle	H	Angle
0.1	0.4040	85.1	0.4045	86.0
BF	0.4023	85.1	0.4089	85.7
-0.1	0.4022	84.9	0.4099	85.8
Average	0.4028	85.0	0.4078	85.8

Focus	V	Angle	H	Angle
0.1	0.4080	86.0	0.4031	86.0
BF	0.4044	86.1	0.4124	85.8
-0.1	0.4007	86.3	0.4057	86.0
Average	0.4044	86.1	0.4071	85.9

Focus	V	Angle	H	Angle
0.1	0.3793	85.5	0.4049	85.6
BF	0.3792	85.6	0.4068	85.7
-0.1	0.3813	85.5	0.4086	85.7
Average	0.3799	85.6	0.4068	85.7

Focus	V	Angle	H	Angle
0.1	0.3864	85.0	0.3821	85.1
BF	0.3935	85.1	0.3862	85.4
-0.1	0.4016	85.1	0.3890	85.5
Average	0.3938	85.1	0.3858	85.3

Focus	V	Angle	H	Angle
0.1	0.4094	85.5	0.3919	85.8
BF	0.4108	85.6	0.3953	85.7
-0.1	0.4135	85.5	0.3961	85.7
Average	0.4112	85.5	0.3944	85.7

Focus	V	Angle	H	Angle
0.1	0.3959	85.0	0.3848	85.5
BF	0.4017	85.2	0.3881	85.6
-0.1	0.4043	85.2	0.3900	85.7
Average	0.4006	85.2	0.3876	85.6

BF used

0.20

um

Total Range (H&V, 9 points)

0.0313

um

Minimum Wall Angle

84.0

deg

X Data	-2	-1	0	1	2
2	-0.017	0.000	-0.015	-0.020	-0.010
1	0.027	0.006	0.009	0.014	0.005
0	0.020	0.011	0.018	0.017	0.012
-1	0.022	0.001	0.001	0.007	-0.014
-2	-0.011	-0.006	-0.014	-0.028	-0.034

Y Data	-2	-1	0	1	2
2	0.009	-0.011	0.003	-0.002	0.017
1	-0.007	0.013	0.012	0.019	0.009
0	-0.004	0.001	0.008	0.003	0.013
-1	0.000	-0.006	-0.003	-0.011	0.008
-2	-0.014	-0.007	-0.019	-0.018	-0.012

D 22 Max

D 22 Min

X	Y
0.027	0.019
-0.034	-0.019

um

um

Magnification

0.09

ppm

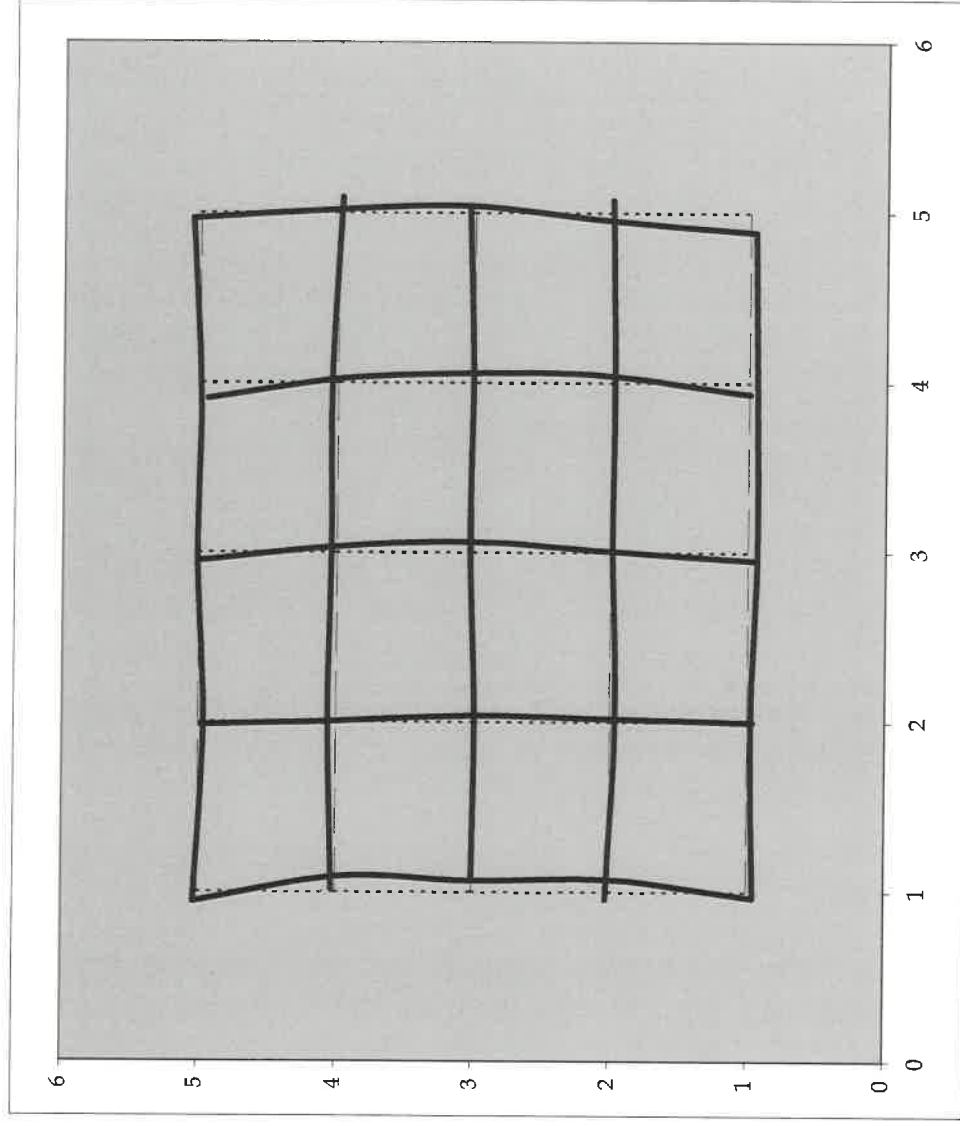
Compensation Amounts

Magnification

Rotation

Shift

Average			
-0.79	0.97	0.1	ppm
3.15	2.29	2.7	ppm
-0.008	0.021		um



X Data	-2	-1	0	1	2
2	0.007	0.003	0.013	0.011	0.028
1	-0.026	-0.006	-0.007	-0.022	0.006
0	-0.017	0.004	-0.007	-0.024	0.010
-1	-0.023	0.005	-0.001	-0.004	0.019
-2	-0.014	-0.005	0.013	0.014	0.022

Y Data	-2	-1	0	1	2
2	0.052	0.043	0.020	0.026	0.032
1	0.023	-0.008	-0.017	-0.017	0.013
0	-0.010	-0.023	-0.031	-0.028	-0.010
-1	-0.014	-0.007	0.007	0.001	-0.002
-2	-0.014	-0.023	-0.020	-0.007	0.014

X	Y
0.028	0.052
-0.026	-0.031

D 20 Max

D 20 Min

um

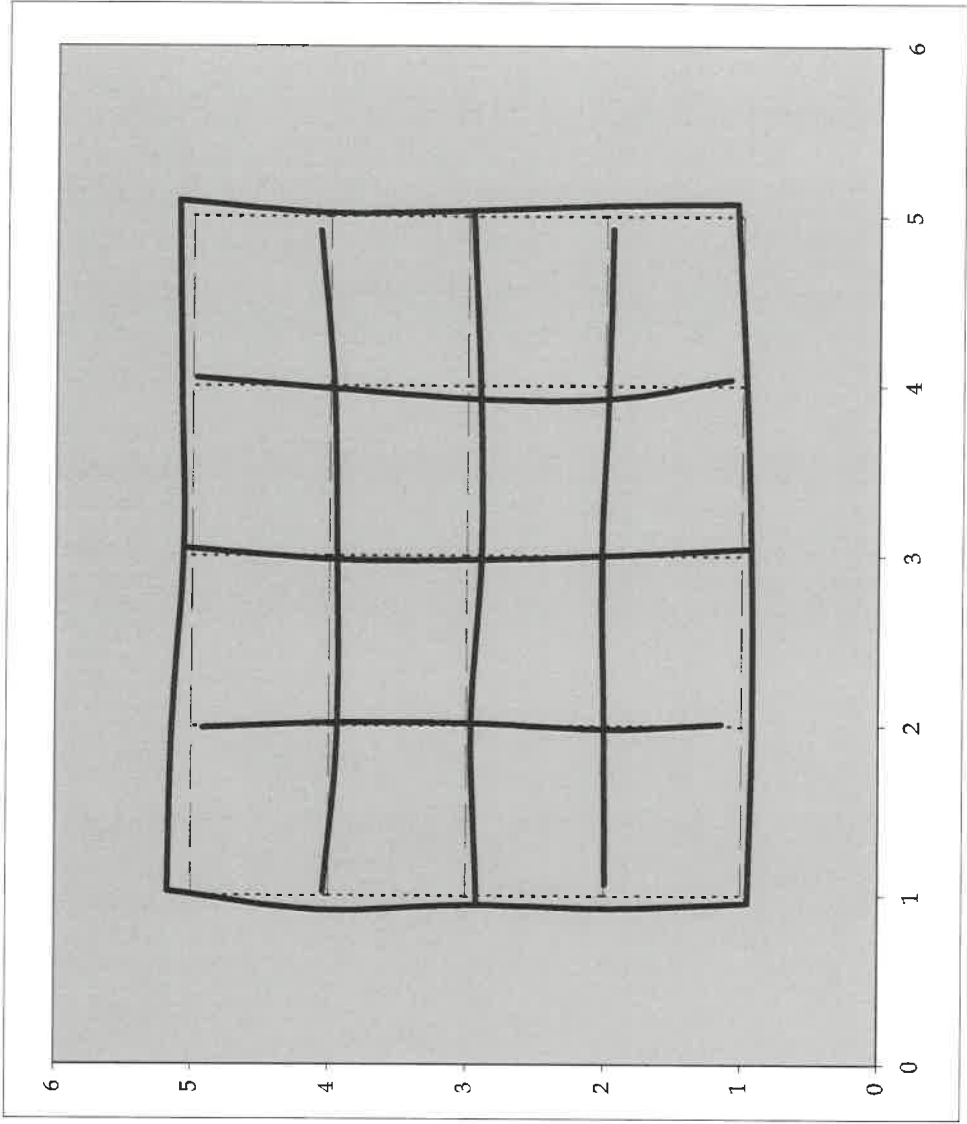
um

Magnification

1.58

ppm

Compensation Amounts		
Magnification	Average	
Rotation		
Shift		
	1.22	1.94
	-0.92	-1.01
	0.012	0.001
		um
		ppm
		ppm





AMI Semiconductor Leasing BVBA
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9700 OUDENAARDE
BELGIUM

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PURCHASE ORDER (NB)		
PURCHASE ORDER NO.		PAGE
413417		1 / 1
This number must appear on all correspondence, invoices, packages and shipping papers. Complete packing slip must accompany each shipment.		
DATE OF ORDER	TEL: 32 55 33 22 86	
22-Jun-2006	FAX: 32 55 33 25 11	
CREATED BY: Daniel Riordan		
E-MAIL: procurement3@amis.com		

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196			Net 30 days after document date		FREIGHT/CARRIER TERMS: /		
ITEM	MATERIAL/DESCRIPTION	DEL. DATE	QUANTITY	UNIT	PRICE / UNIT	EXTENDED PRICE	
10	Vendor No: AMIS No: CANON STEPPER FPA-2500i3 s/n 402560 * Product year: 1994 (one owner machine) * 5 inch reticle, 6 inch wafer, Left-inline * Basic machine performance will be confirmed at Canon Nottingham. * Lens performance data was confirmed by Canon. * Installation fee included in the main body price. * 3 months labour warranty will be supplied. * Payment term 30 days net after successful machine installation. * Trade term is CIF Oudenaarde.	24-JUL-2006	1	each	295,000.00 / 1	295,000.00	
TOTAL						EUR	295,000.00

Order subject to conditions of purchase as communicated and agreed. In case of doubt please ask for a new copy. Please return an acknowledgment within 10 days.