Mean Ang =   0.283   Min Ang =   0.000   Max Ang =   4.764
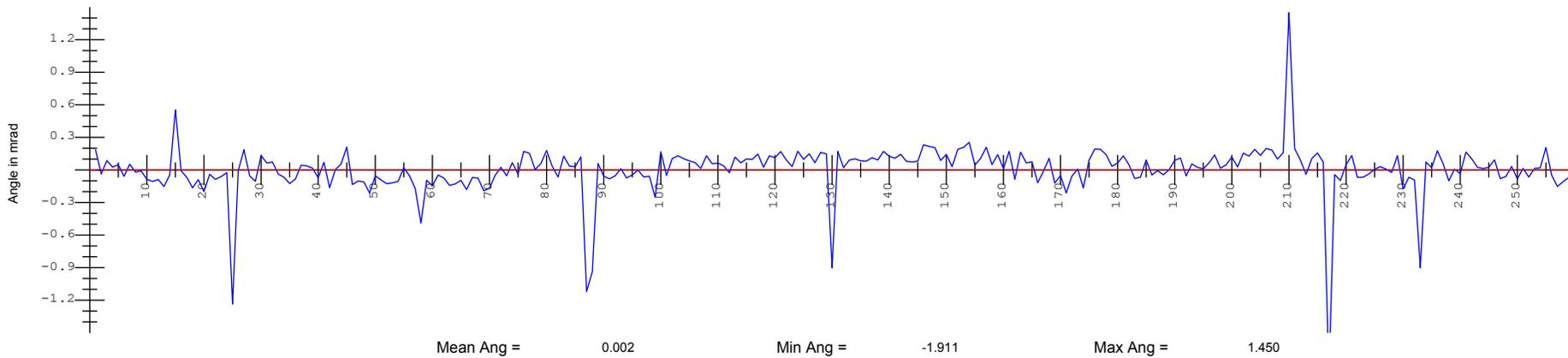

Angle in mrad

Included Angle Between Pole Tips

Pole Tip Num. --------------->

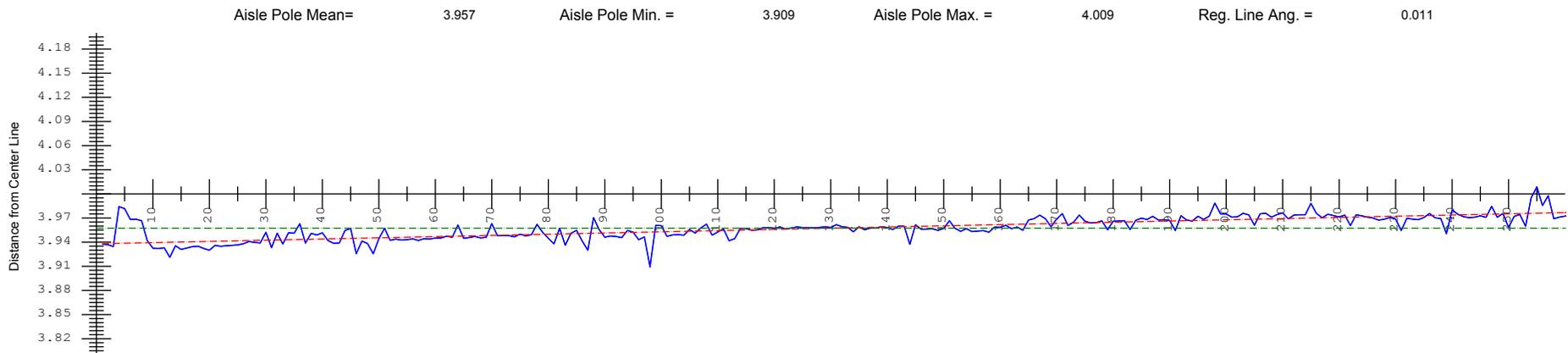## Angle of Symmetry Line between Pole Tips to Grider ZX Plane

Angle in mrad

Mean Ang =   0.002   Min Ang =   -1.911   Max Ang =   1.450

Dimensions in MM, Angles in Milliradians

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	HGVPU -	Pole Tip Angles					S/N	: HXU_001
		US Full	:	7.9875	DS Full	: 7.9837	Date	: 06-MAR-2019
	Nominal Gap : 8.000	US Wall Half	:	3.9999	DS Wall Half	: 3.9997	Data Set	: 0001
	Nom. Taper : 0.000	US Aisle Half	:	3.9998	DS Aisle Half	: 4.0003	Run	: Final
							Cam Pos.	: B

Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. -------------->

Blue = Pole Tip points

Green = Mean line

Red = Regression line thru points

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 7.818

| Wall Pole Mean = | -4.008 | Wall Pole Min. = | -4.066 | Wall Pole Max. = | -3.960 | Reg. Line Ang. = | 0.014 |

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

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NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU -
Pole Tip Location from Girder Centerline

	US Full	:	7.9875	DS Full :	7.9837
Nominal Gap :	8.000	US Wall Half :	3.9999	DS Wall Half :	3.9997
Nom. Taper :	0.000	US Aisle Half :	3.9998	DS Aisle Half :	4.0003

S/N	: HXU_001
Date	: 06-MAR-2019
Data Set	: 0001
Run	: Final
Cam Pos.	: B

Values Calculated from Regression Line End Points

Dimension	X Value	Y Value	Z Value	Calc. Value
US Aisle Pole Tip(1)	3.938	0.000	8.750	
US Wall Pole Tip(1)	-4.031	0.000	8.750	
US Sym. Pt.	-0.046			
US Gap				7.969
DS Aisle Pole Tip(260)	3.977	0.000	3375.750	
DS Wall Pole Tip(260)	-3.985	0.000	3375.750	
DS Sym. Pt.	-0.004			
DS Gap				7.961
Taper				-0.007

Dimensions in MM

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - **Gap Calc. from Regression Line End Points**

	US Full :	7.9875	DS Full :	7.9837
Nominal Gap : 8.000	US Wall Half :	3.9999	DS Wall Half :	3.9997
Nom. Taper : 0.000	US Aisle Half :	3.9998	DS Aisle Half :	4.0003

S/N	: HXU_001
Date	: 06-MAR-2019
Data Set	: 0001
Run	: Final
Cam Pos.	: B

Gap Mean= 7.965 Gap Min. = 7.899 GAP Max. = 8.049
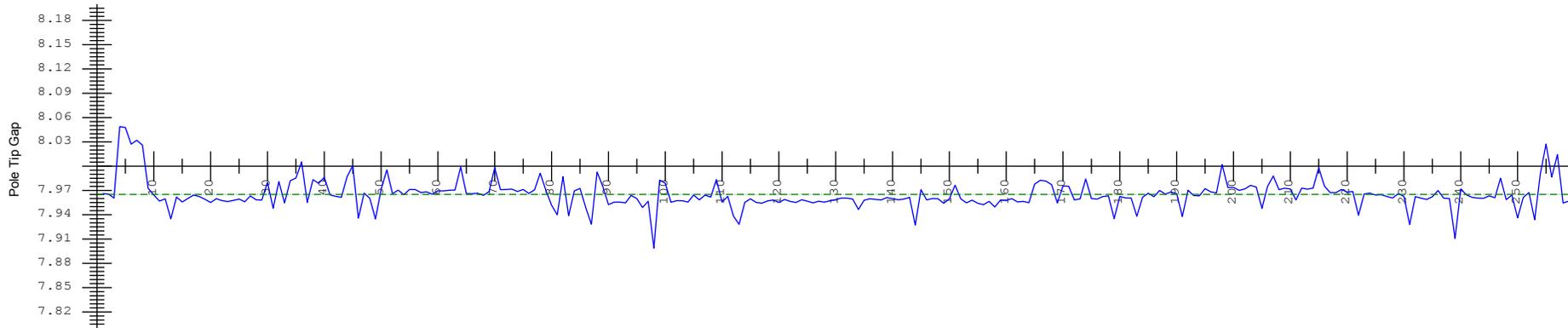
Pole Tip Gap

Pole Tip Gap at Nom. Beam Height

Pole Tip Num. --------------->

Blue = Pole Tip points

Green = Mean line

Red = Regression line thru points

Pole Tip Symmetery Point at Nom. Beam Height

Distance from Girder Center Line
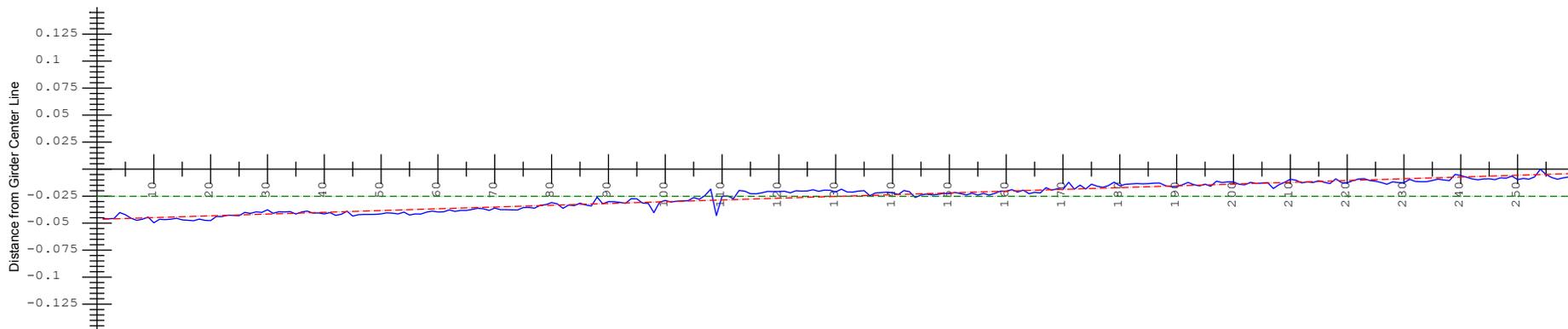
Sym. Mean = -0.025 Sym. Min. = -0.050 Sym. Max. = 0.000 Reg. Line Ang. = 0.013

Girder centerline in reference to Pointed Magnets

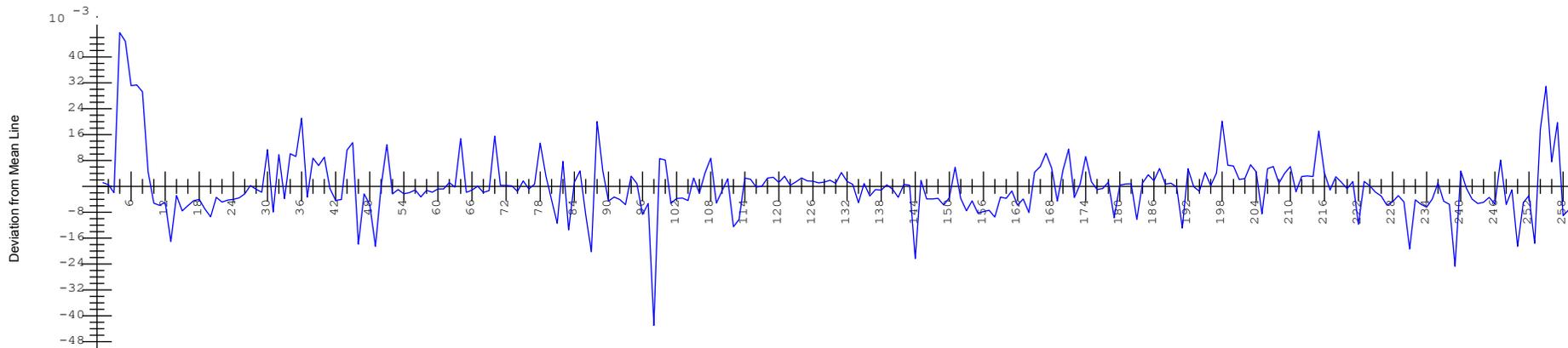Dimensions in MM, Angles in Milliradians

HGVPU -	**Pole Tip Gap and Symmetry Point Location**			**S/N**	**: HXU_001**
	US Full :	**7.9875**	**DS Full :**	**7.9837**	**Date : 06-MAR-2019**
Nominal Gap : 8.000	**US Wall Half :**	**3.9999**	**DS Wall Half :**	**3.9997**	**Data Set : 0001**
Nom. Taper : 0.000	**US Aisle Half :**	**3.9998**	**DS Aisle Half :**	**4.0003**	**Run : Final**
					Cam Pos. : B

SLAC

NATIONAL ACCELERATOR LABORATORY

METROLOGY

Aisle Pole Tips

Pole Tip Num. --------------->

Wall Pole Tips
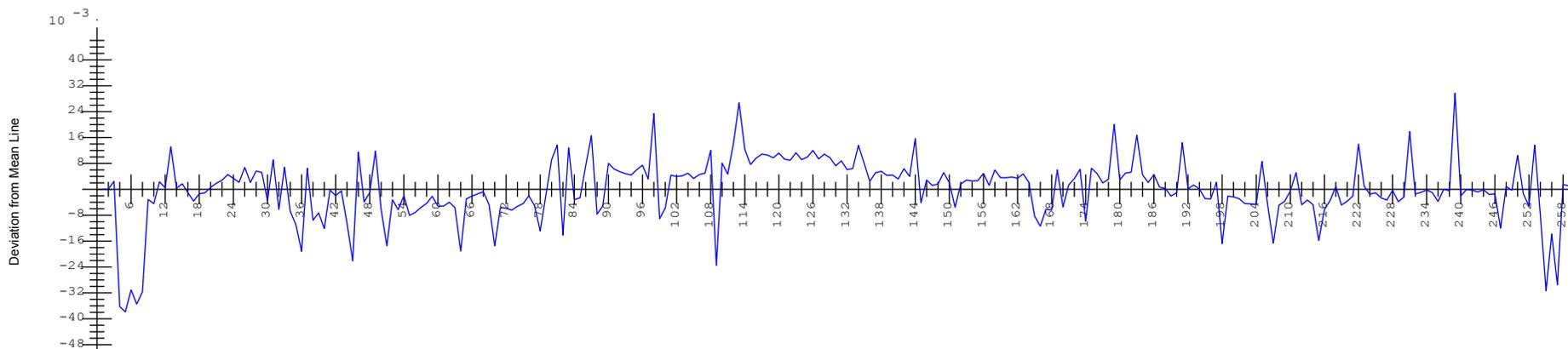
Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane

Dimensions in MM

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METROLOGY

HGVPU - Pole Tip Deviation from Mean Line

	US Full	:	7.9875	DS Full :	7.9837
Nominal Gap :	8.000	US Wall Half :	3.9999	DS Wall Half :	3.9997
Nom. Taper :	0.000	US Aisle Half :	3.9998	DS Aisle Half :	4.0003

S/N	: HXU_001
Date	: 06-MAR-2019
Data Set	: 0001
Run	: Final
Cam Pos.	: B