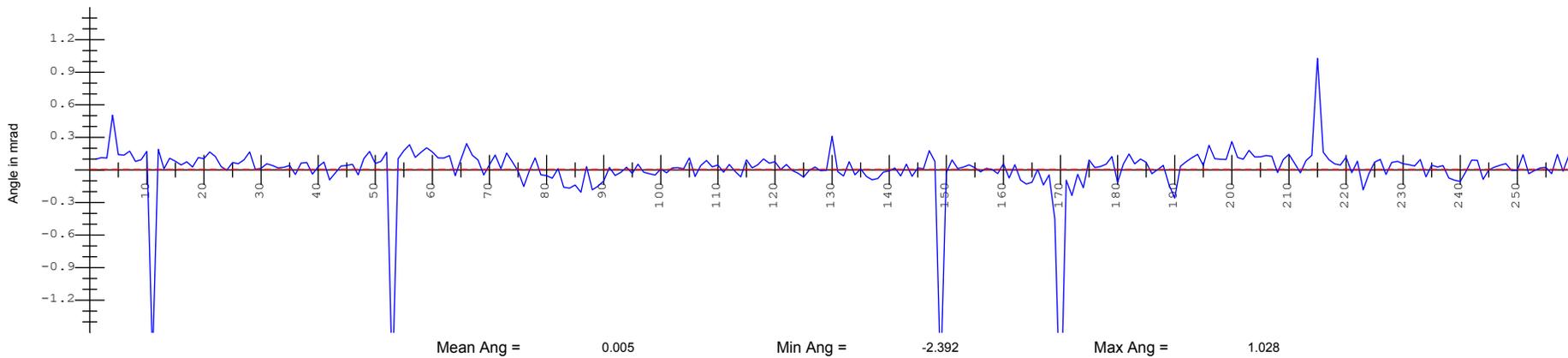


Included Angle Between Pole Tips

Pole Tip Num. ----->

Angle of Symmetry Line between Pole Tips to Tuning Gap ZX Plane



Dimensions in MM, Angles in Milliradians

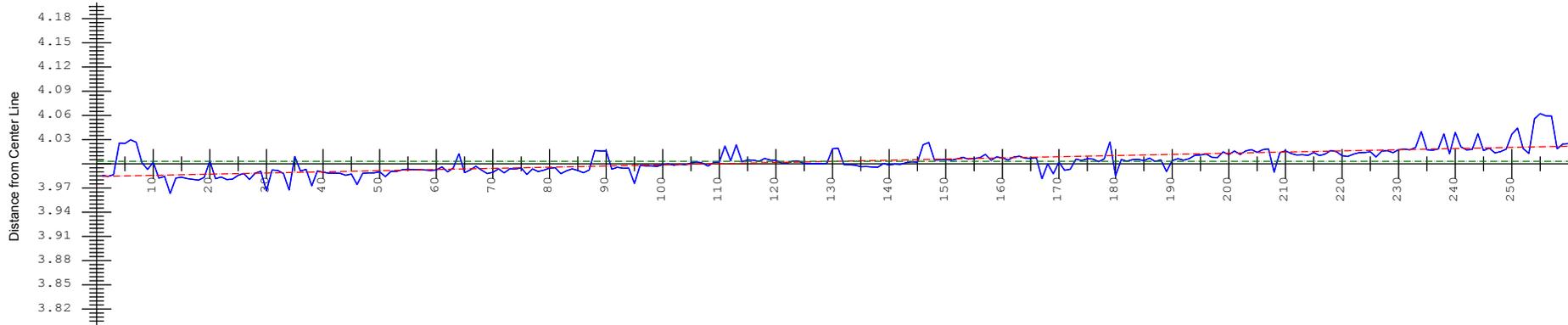


HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.9999
Nom. Taper :	0.000	US Wall Half :	4.0003	DS Wall Half :	4.0032
		US Aisle Half :	3.9984	DS Aisle Half :	4.0038

S/N	: HXU_026
Date	: 23-SEP-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean = 4.003 Aisle Pole Min. = 3.963 Aisle Pole Max. = 4.062 Reg. Line Ang. = 0.011



Aisle Pole Tips at Nom. Beam Height

Blue = Pole Tip points
Green = Mean line
Red = Regression line thru points

Pole Tip Num. ----->

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 7.926



Wall Pole Mean = -3.995 Wall Pole Min. = -4.047 Wall Pole Max. = -3.963 Reg. Line Ang. = 0.011

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.9999
Nom. Taper :	0.000	US Wall Half :	4.0003	DS Wall Half :	4.0032
		US Aisle Half :	3.9984	DS Aisle Half :	4.0038

S/N	: HXU_026
Date	: 23-SEP-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

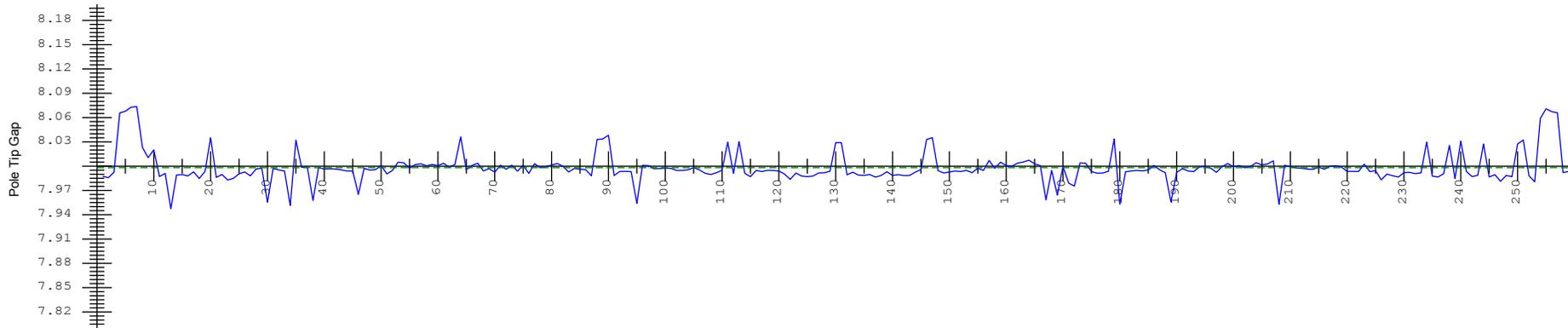
Values Calculated from Regression Line End Points

Dimension	X Value	Y Value	Z Value	Calc. Value
US Aisle Pole Tip(1)	3.984	0.000	8.750	
US Wall Pole Tip(1)	-4.013	0.000	8.750	
US Sym. Pt.	-0.015			
US Gap				7.998
DS Aisle Pole Tip(260)	4.022	0.000	3375.750	
DS Wall Pole Tip(260)	-3.977	0.000	3375.750	
DS Sym. Pt.	0.023			
DS Gap				7.998
Taper				0.001

Dimensions in MM

 <p>SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY</p>	<p>HGVPU - Gap Calc. from Regression Line End Points</p>				<p>S/N : HXU_026</p>	
	<p>Nominal Gap : 8.000</p>	<p>US Full : 7.9996</p>	<p>DS Full : 7.9999</p>	<p>US Wall Half : 4.0003</p>	<p>DS Wall Half : 4.0032</p>	<p>Date : 23-SEP-2019</p>
	<p>Nom. Taper : 0.000</p>	<p>US Aisle Half : 3.9984</p>	<p>DS Aisle Half : 4.0038</p>	<p>DS Aisle Half : 4.0038</p>	<p>Run : FINAL</p>	<p>Cam Pos. : B</p>

Gap Mean= 7.998 Gap Min. = 7.947 GAP Max. = 8.074

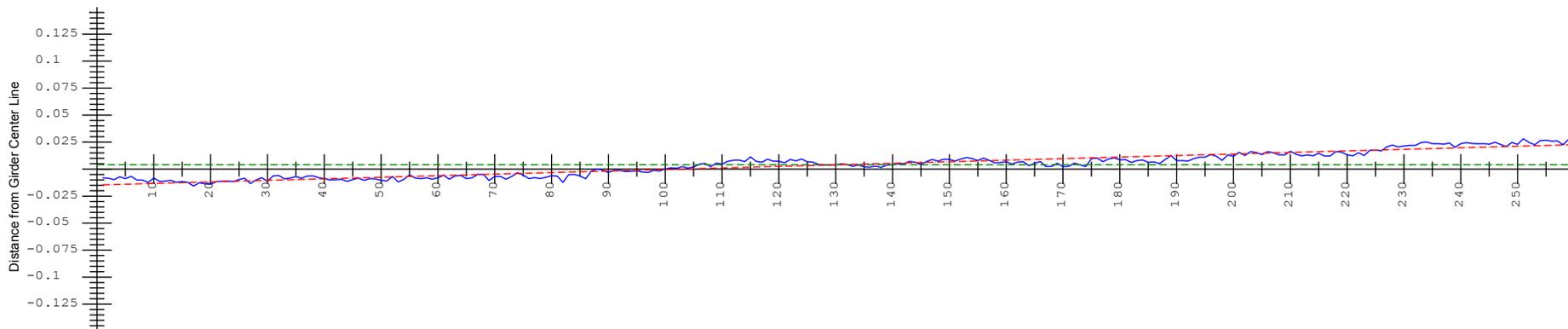


Pole Tip Gap at Nom. Beam Height

Blue = Pole Tip points
Green = Mean line
Red = Regression line thru points

Pole Tip Num. ----->

Pole Tip Symmetry Point at Nom. Beam Height



Sym. Mean = 0.004 Sym. Min. = -0.016 Sym. Max. = 0.029 Reg. Line Ang. = 0.011

Girder centerline in reference to Pointed Magnets

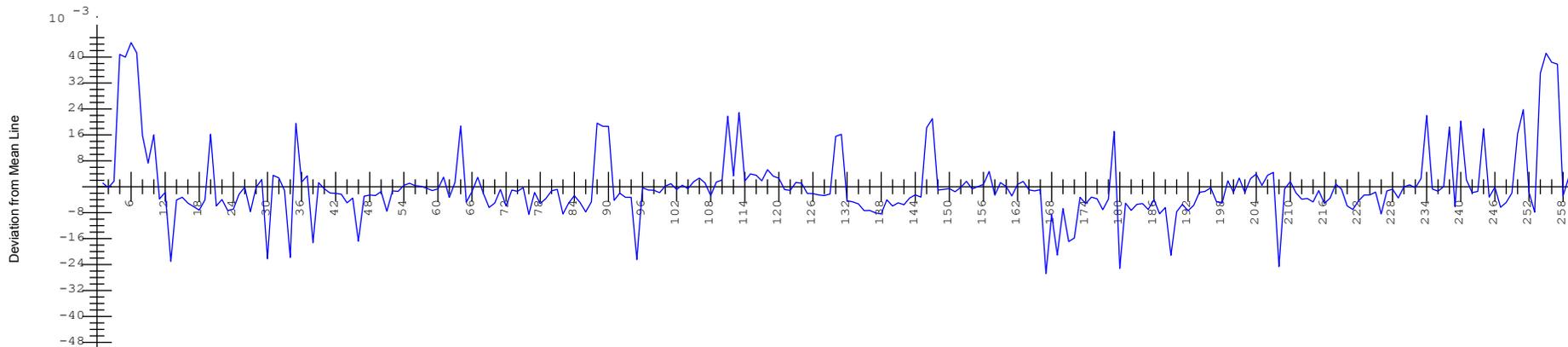
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.9999
Nom. Taper :	0.000	US Wall Half :	4.0003	DS Wall Half :	4.0032
		US Aisle Half :	3.9984	DS Aisle Half :	4.0038

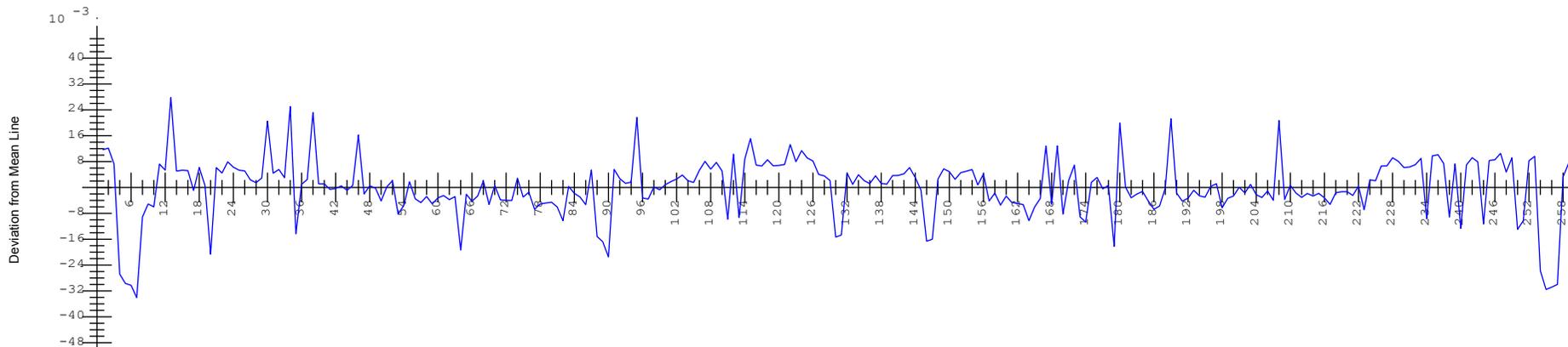
S/N	: HXU_026
Date	: 23-SEP-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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



HGVPU - Pole Tip Deviation from Mean Line

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.9999
Nom. Taper :	0.000	US Wall Half :	4.0003	DS Wall Half :	4.0032
		US Aisle Half :	3.9984	DS Aisle Half :	4.0038

S/N	: HXU_026
Date	: 23-SEP-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B