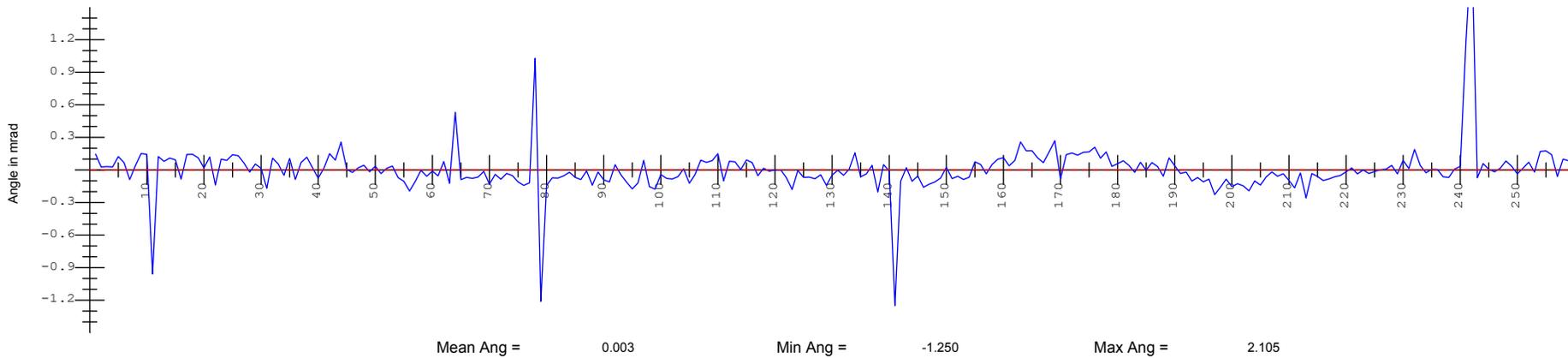


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

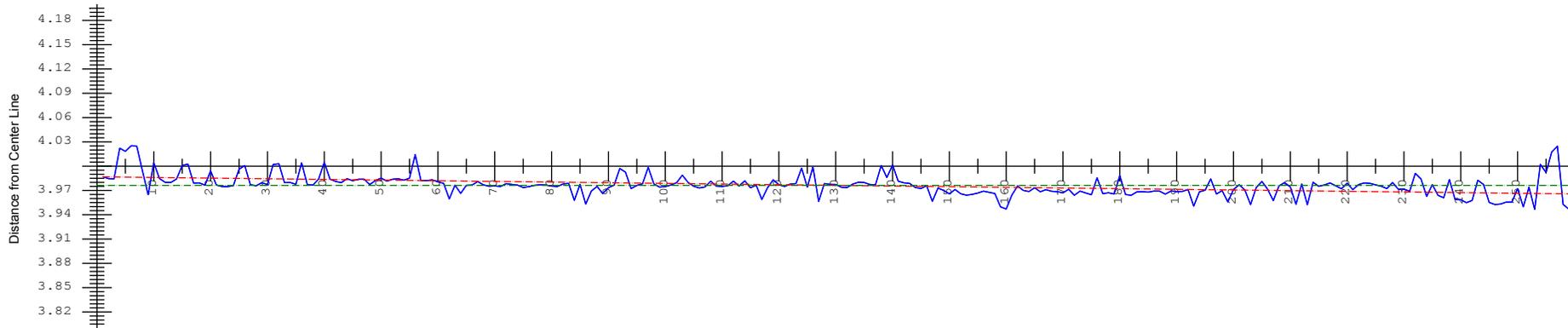


HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0016	DS Wall Half :	3.9514
		US Aisle Half :	4.0028	DS Aisle Half :	3.9529

S/N	: HXU_008
Date	: 12-NOV-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean = 3.976 Aisle Pole Min. = 3.947 Aisle Pole Max. = 4.025 Reg. Line Ang. = -0.006



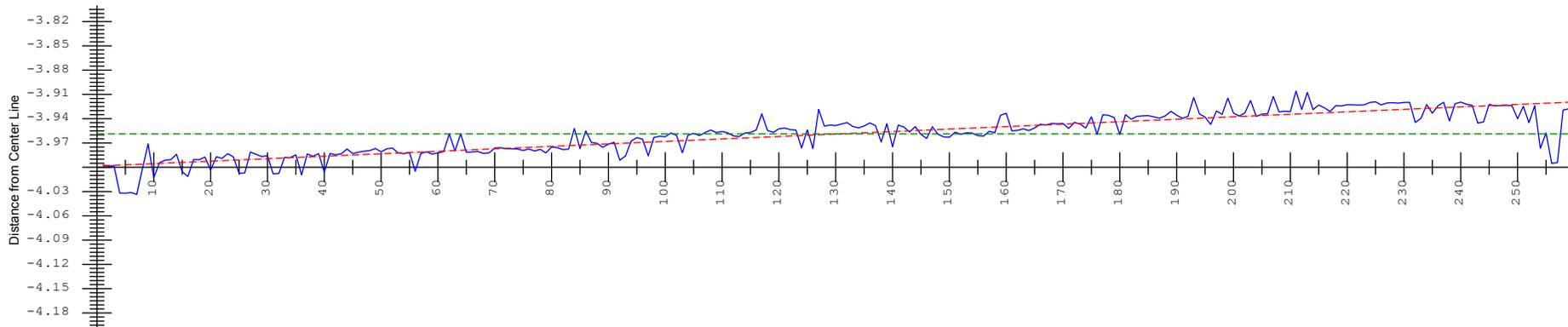
Aisle Pole Tips at Nom. Beam Height

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 = 7.812



Wall Pole Mean = -3.959 Wall Pole Min. = -4.034 Wall Pole Max. = -3.906 Reg. Line Ang. = 0.023

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 :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0016	DS Wall Half :	3.9514
		US Aisle Half :	4.0028	DS Aisle Half :	3.9529

S/N	: HXU_008
Date	: 12-NOV-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)	3.987	0.000	8.750	
US Wall Pole Tip(1)	-3.998	0.000	8.750	
US Sym. Pt.	-0.006			
US Gap				7.985
DS Aisle Pole Tip(260)	3.966	0.000	3375.750	
DS Wall Pole Tip(260)	-3.919	0.000	3375.750	
DS Sym. Pt.	0.023			
DS Gap				7.885
Taper				-0.100

Dimensions in MM

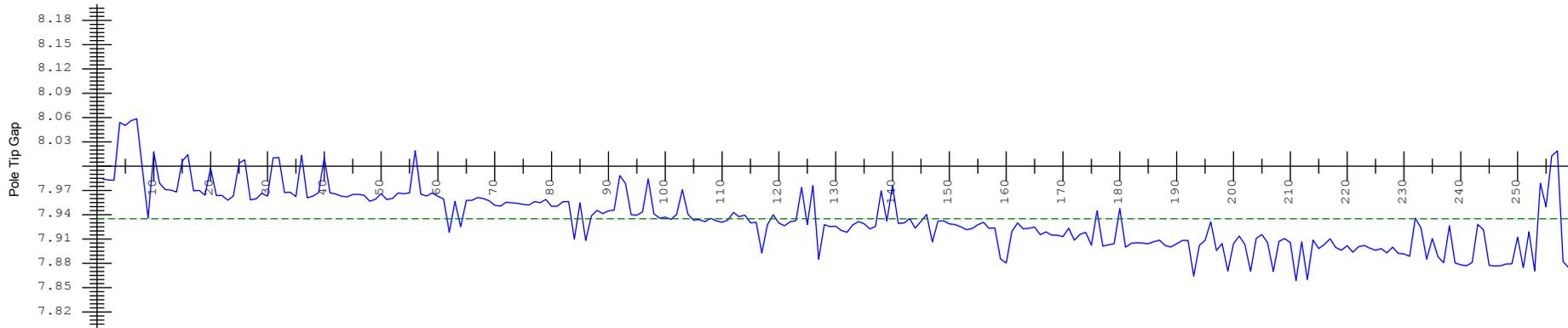


HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0016	DS Wall Half :	3.9514
		US Aisle Half :	4.0028	DS Aisle Half :	3.9529

S/N	: HXU_008
Date	: 12-NOV-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Gap Mean= 7.935 Gap Min. = 7.859 GAP Max. = 8.058

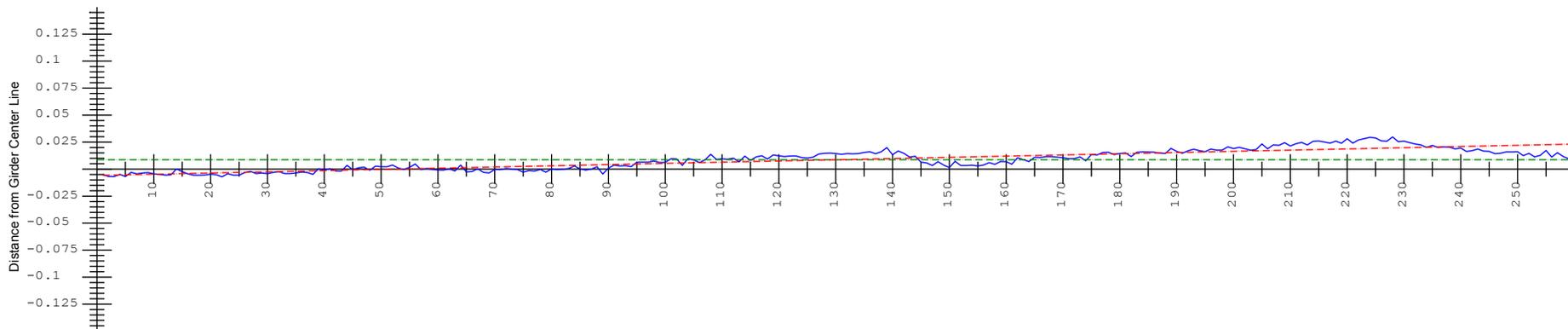


Pole Tip Gap at Nom. Beam Height

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 = 0.009 Sym. Min. = -0.007 Sym. Max. = 0.030 Reg. Line Ang. = 0.009

Girder centerline in reference to Pointed Magnets

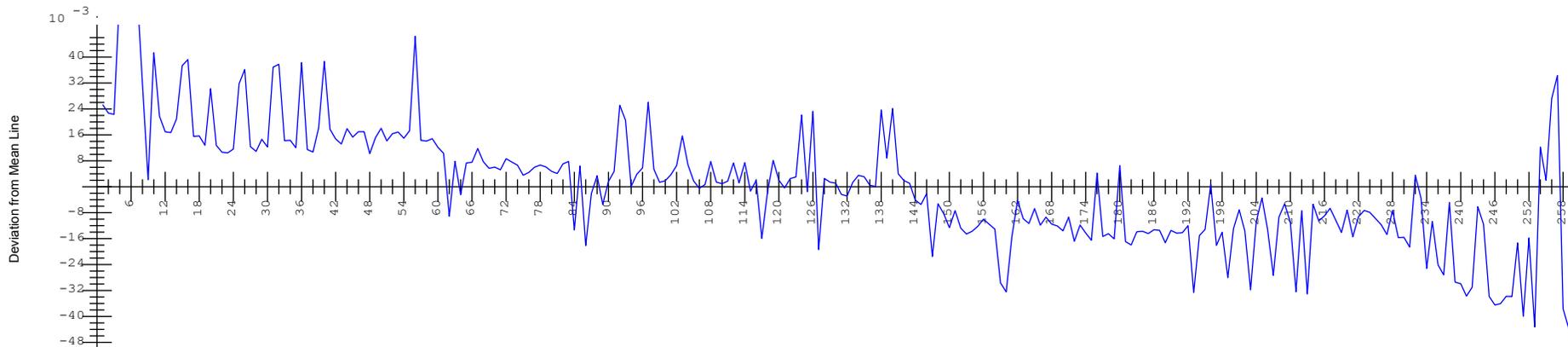
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0016	DS Wall Half :	3.9514
		US Aisle Half :	4.0028	DS Aisle Half :	3.9529

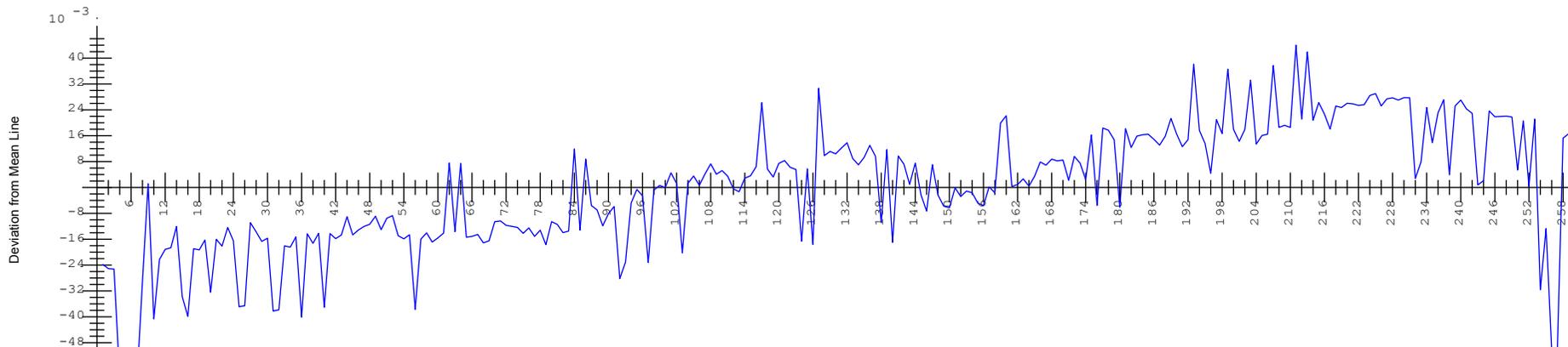
S/N	: HXU_008
Date	: 12-NOV-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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 :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0016	DS Wall Half :	3.9514
		US Aisle Half :	4.0028	DS Aisle Half :	3.9529

S/N	: HXU_008
Date	: 12-NOV-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B