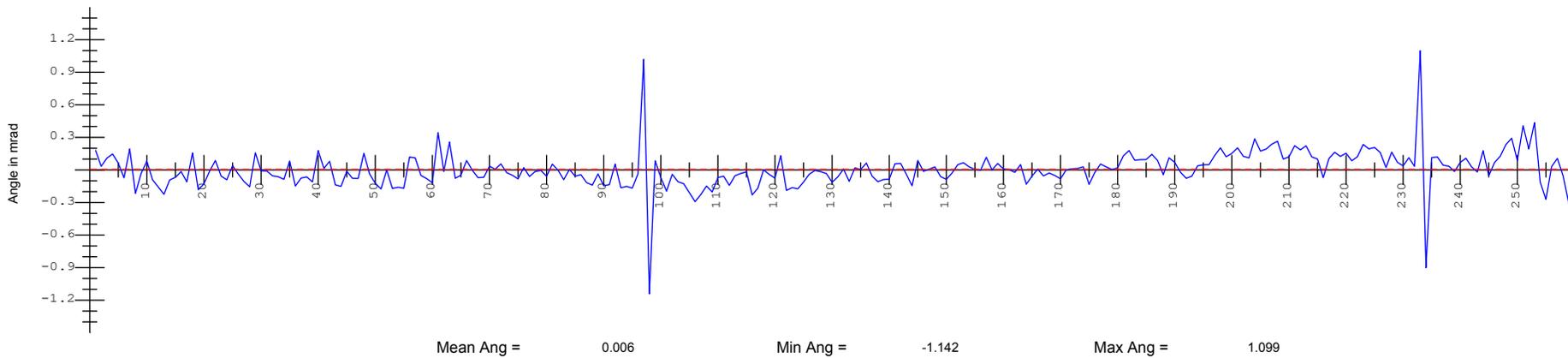


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

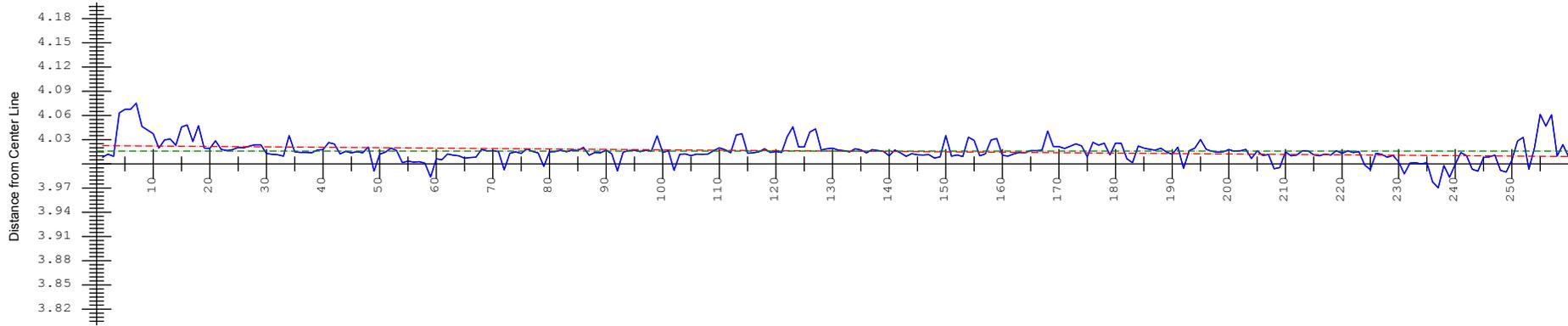


HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	3.9982	DS Wall Half :	3.9558
		US Aisle Half :	4.0030	DS Aisle Half :	3.9552

S/N	: HXU_009
Date	: 30-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean = 4.016 Aisle Pole Min. = 3.970 Aisle Pole Max. = 4.075 Reg. Line Ang. = -0.004



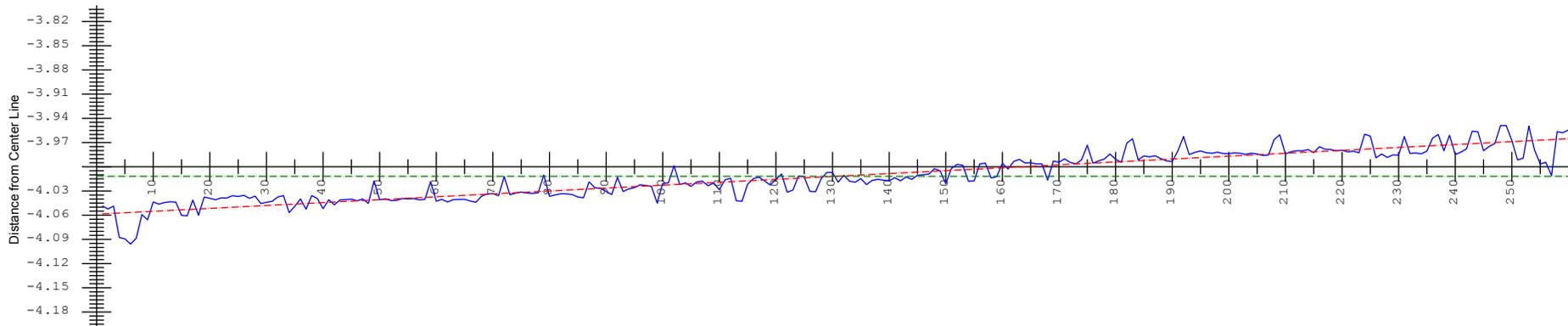
Aisle Pole Tips at Nom. Beam Height

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 = 7.898



Wall Pole Mean = -4.012 Wall Pole Min. = -4.096 Wall Pole Max. = -3.949 Reg. Line Ang. = 0.028

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 :	3.9982	DS Wall Half :	3.9558
		US Aisle Half :	4.0030	DS Aisle Half :	3.9552

S/N	: HXU_009
Date	: 30-OCT-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)	4.023	0.000	8.750	
US Wall Pole Tip(1)	-4.058	0.000	8.750	
US Sym. Pt.	-0.018			
US Gap				8.081
DS Aisle Pole Tip(260)	4.009	0.000	3375.750	
DS Wall Pole Tip(260)	-3.965	0.000	3375.750	
DS Sym. Pt.	0.022			
DS Gap				7.975
Taper				-0.107

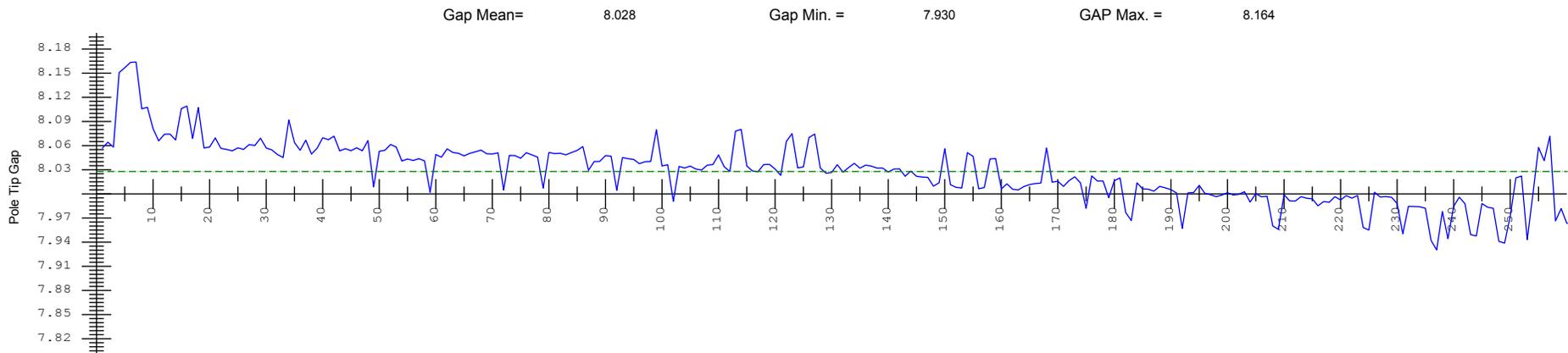
Dimensions in MM



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 :	3.9982	DS Wall Half :	3.9558
		US Aisle Half :	4.0030	DS Aisle Half :	3.9552

S/N	: HXU_009
Date	: 30-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

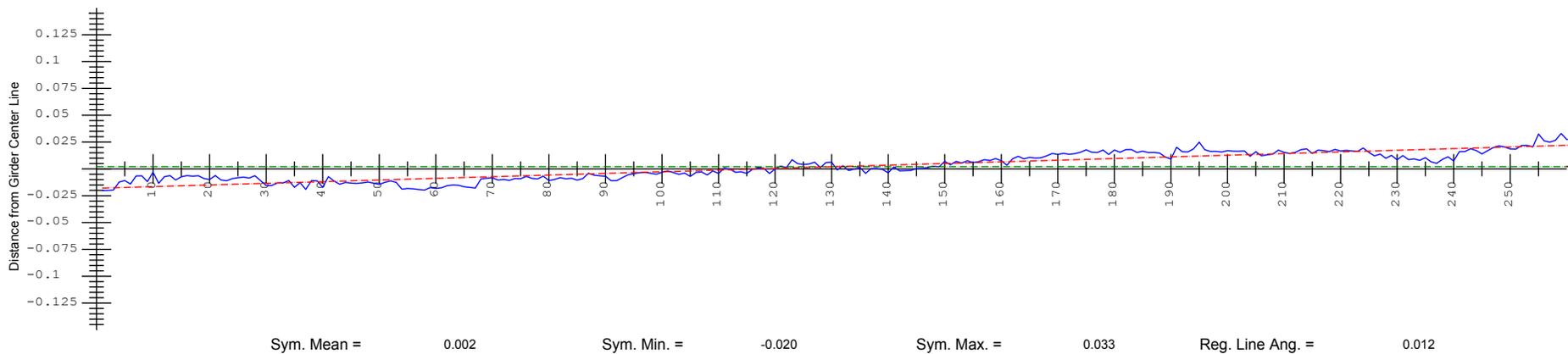


Pole Tip Gap at Nom. Beam Height

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

Pole Tip Num. ----->

Pole Tip Symmetry Point at Nom. Beam Height



Girder centerline in reference to Pointed Magnets

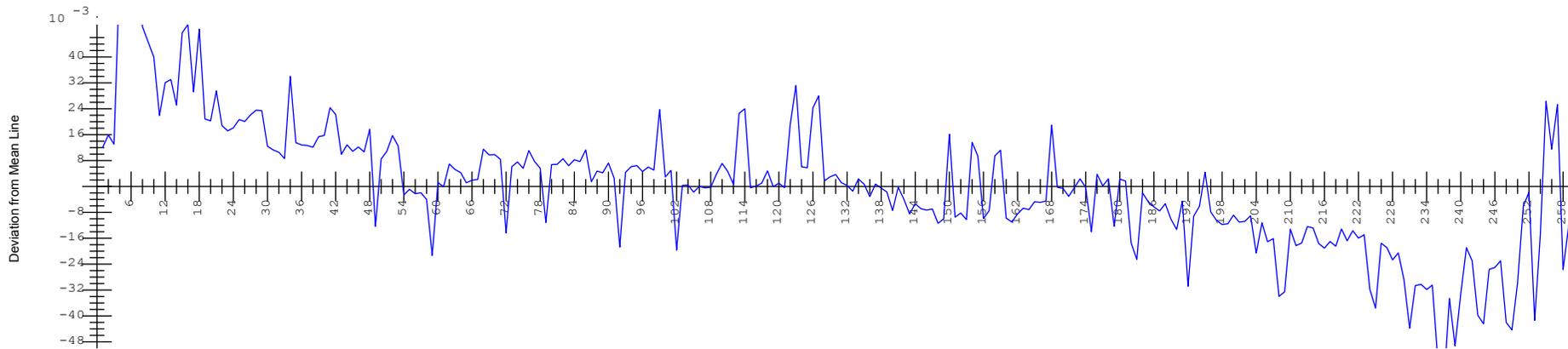
Dimensions in MM, Angles in Milliradians



HGVPVU - 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 :	3.9982	DS Wall Half :	3.9558
		US Aisle Half :	4.0030	DS Aisle Half :	3.9552

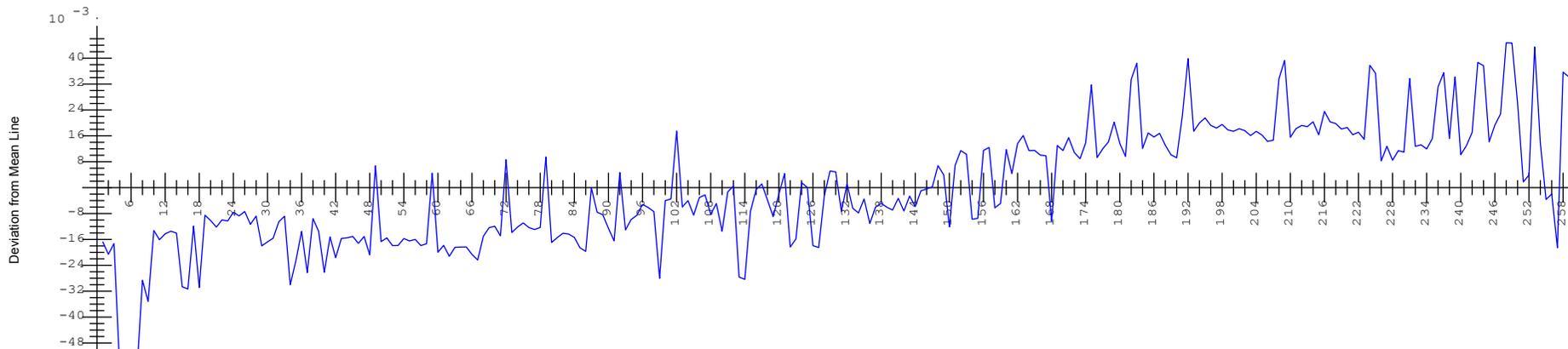
S/N	: HXU_009
Date	: 30-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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 :	3.9982	DS Wall Half :	3.9558
		US Aisle Half :	4.0030	DS Aisle Half :	3.9552

S/N	: HXU_009
Date	: 30-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B