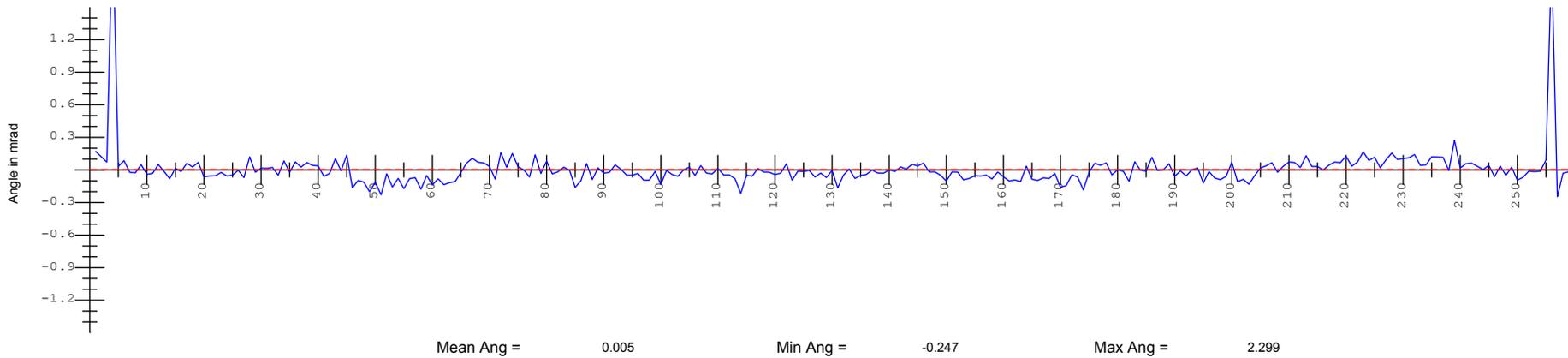


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

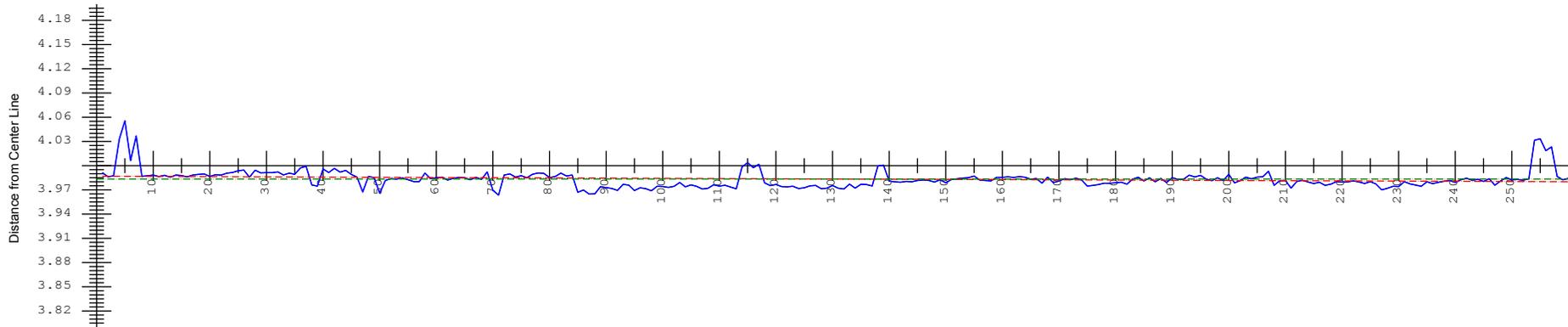


HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0037	DS Wall Half :	3.9551
		US Aisle Half :	4.0024	DS Aisle Half :	3.9527

S/N	: HXU_025
Date	: 15-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean = 3.983 Aisle Pole Min. = 3.963 Aisle Pole Max. = 4.056 Reg. Line Ang. = -0.002



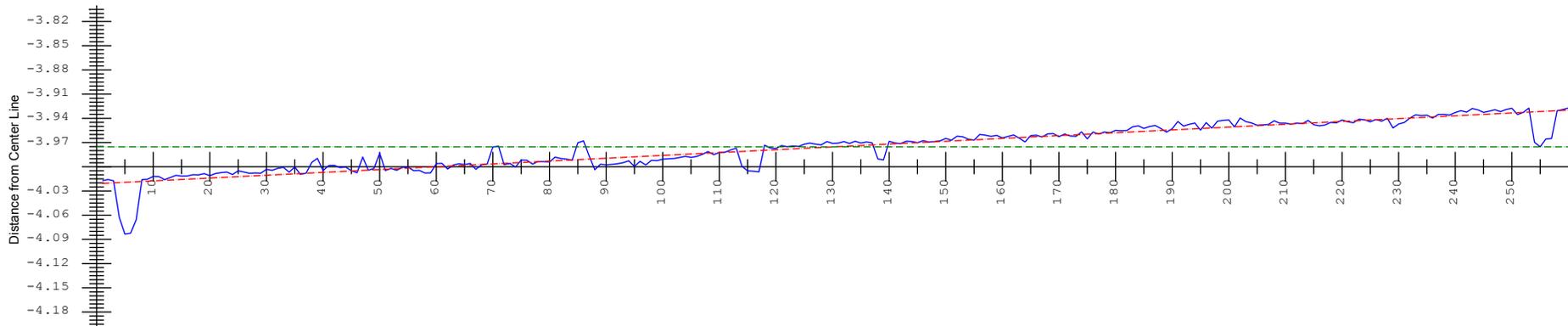
Aisle Pole Tips at Nom. Beam Height

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 = 7.854



Wall Pole Mean = -3.975 Wall Pole Min. = -4.083 Wall Pole Max. = -3.927 Reg. Line Ang. = 0.027

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 :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0037	DS Wall Half :	3.9551
		US Aisle Half :	4.0024	DS Aisle Half :	3.9527

S/N	: HXU_025
Date	: 15-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)	3.987	0.000	8.750	
US Wall Pole Tip(1)	-4.021	0.000	8.750	
US Sym. Pt.	-0.017			
US Gap				8.008
DS Aisle Pole Tip(260)	3.980	0.000	3375.750	
DS Wall Pole Tip(260)	-3.930	0.000	3375.750	
DS Sym. Pt.	0.025			
DS Gap				7.910
Taper				-0.098

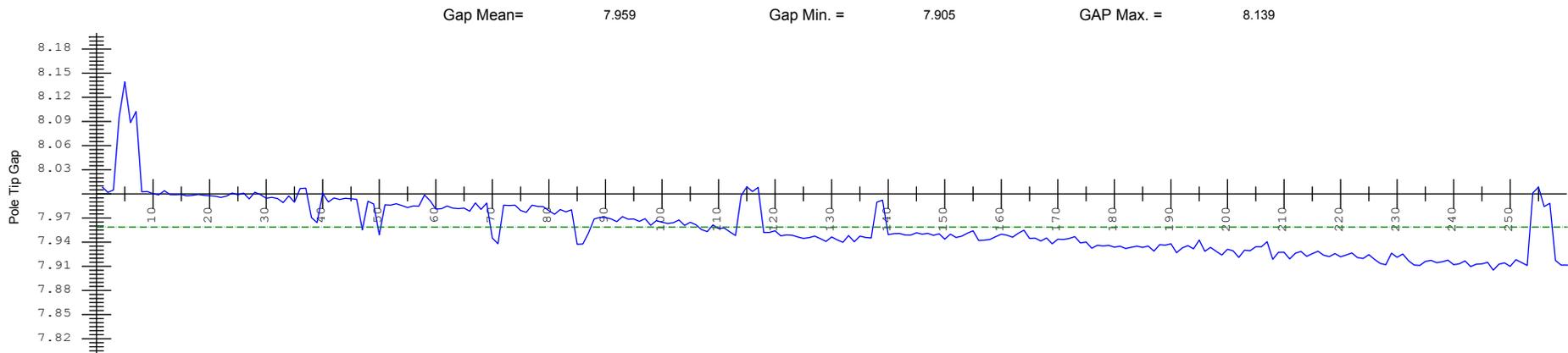
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0037	DS Wall Half :	3.9551
		US Aisle Half :	4.0024	DS Aisle Half :	3.9527

S/N	: HXU_025
Date	: 15-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

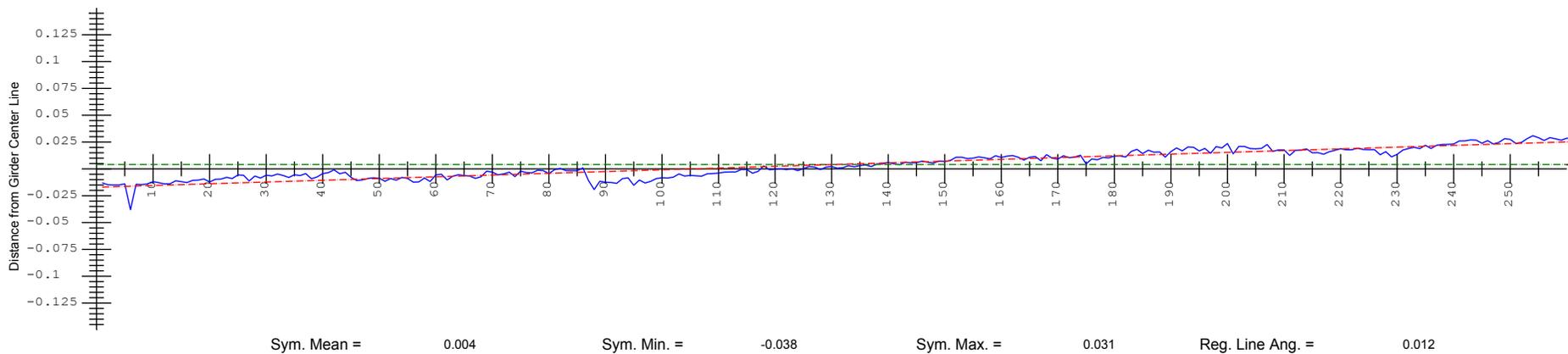


Pole Tip Gap at Nom. Beam Height

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

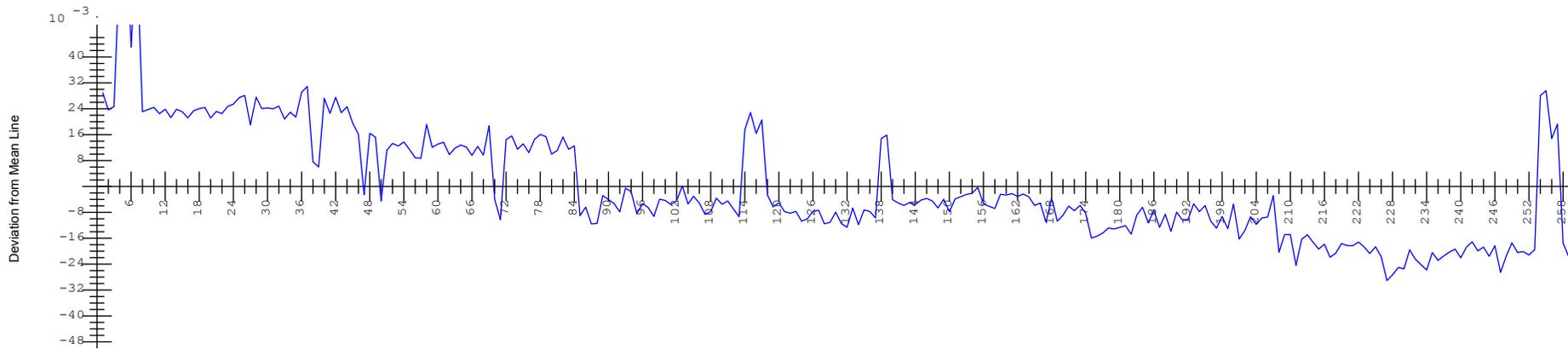
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0037	DS Wall Half :	3.9551
		US Aisle Half :	4.0024	DS Aisle Half :	3.9527

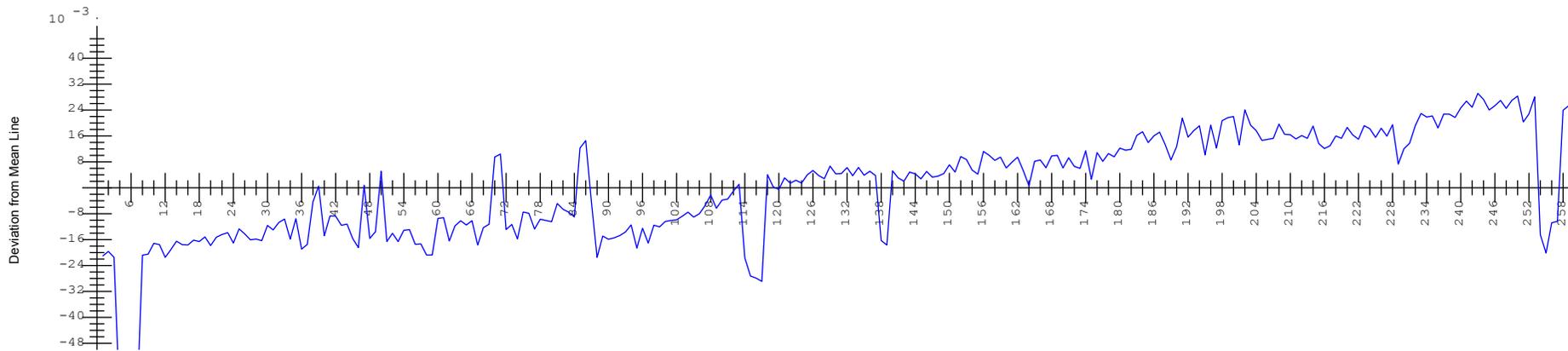
S/N	: HXU_025
Date	: 15-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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 :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0037	DS Wall Half :	3.9551
		US Aisle Half :	4.0024	DS Aisle Half :	3.9527

S/N	: HXU_025
Date	: 15-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B