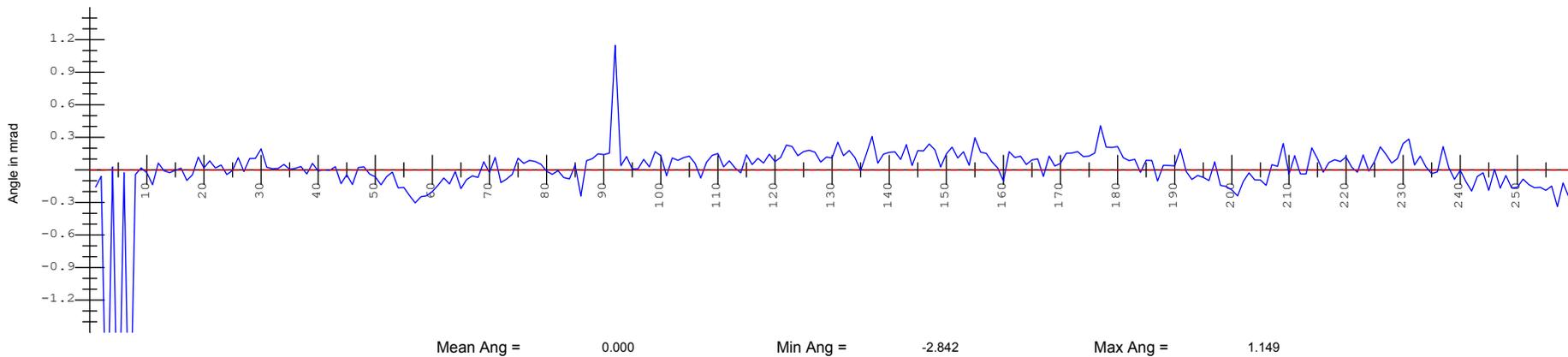


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



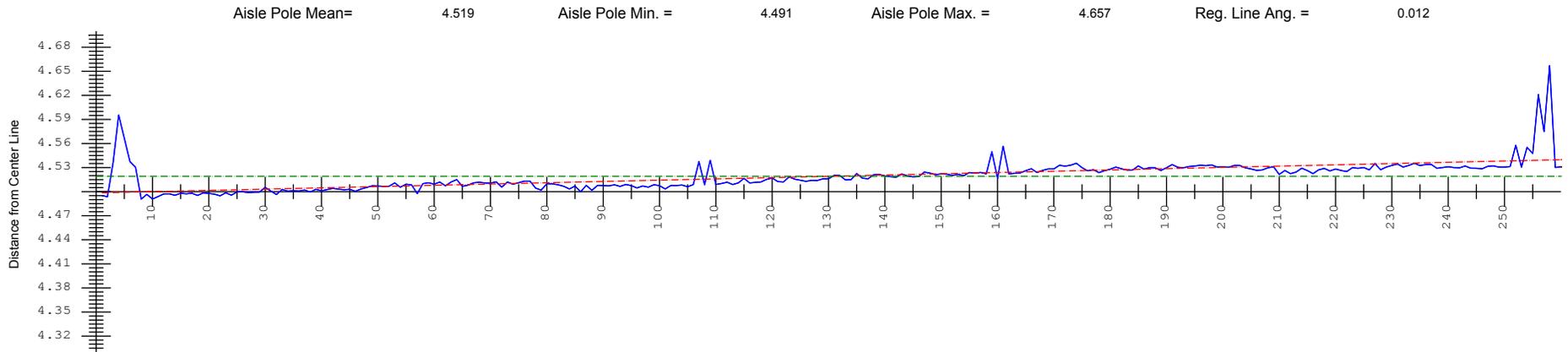
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Angles

Nominal Gap :	9.000	US Full :	8.9998	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5007	DS Wall Half :	4.5032
		US Aisle Half :	4.5040	DS Aisle Half :	4.5027

S/N	: HXU_022
Date	: 16-SEP-2019
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B



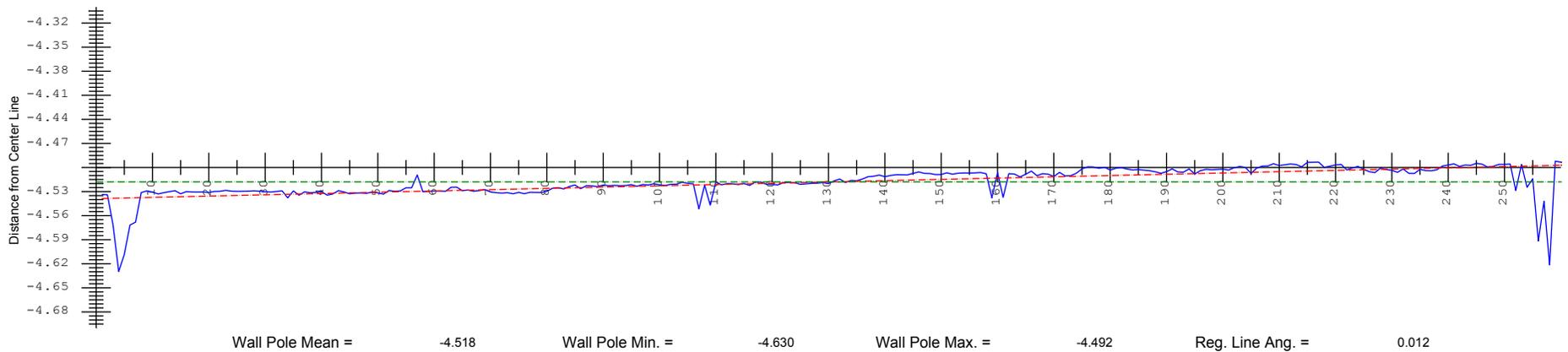
Aisle Pole Tips at Nom. Beam Height

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 = 8.981



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	9.000	US Full :	8.9998	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5007	DS Wall Half :	4.5032
		US Aisle Half :	4.5040	DS Aisle Half :	4.5027

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Cam Pos.	: B

Values Calculated from Regression Line End Points

Dimension	X Value	Y Value	Z Value	Calc. Value
US Aisle Pole Tip(1)	4.499	0.000	8.750	
US Wall Pole Tip(1)	-4.539	0.000	8.750	
US Sym. Pt.	-0.020			
US Gap				9.037
DS Aisle Pole Tip(260)	4.540	0.000	3375.750	
DS Wall Pole Tip(260)	-4.497	0.000	3375.750	
DS Sym. Pt.	0.021			
DS Gap				9.037
Taper				0.000

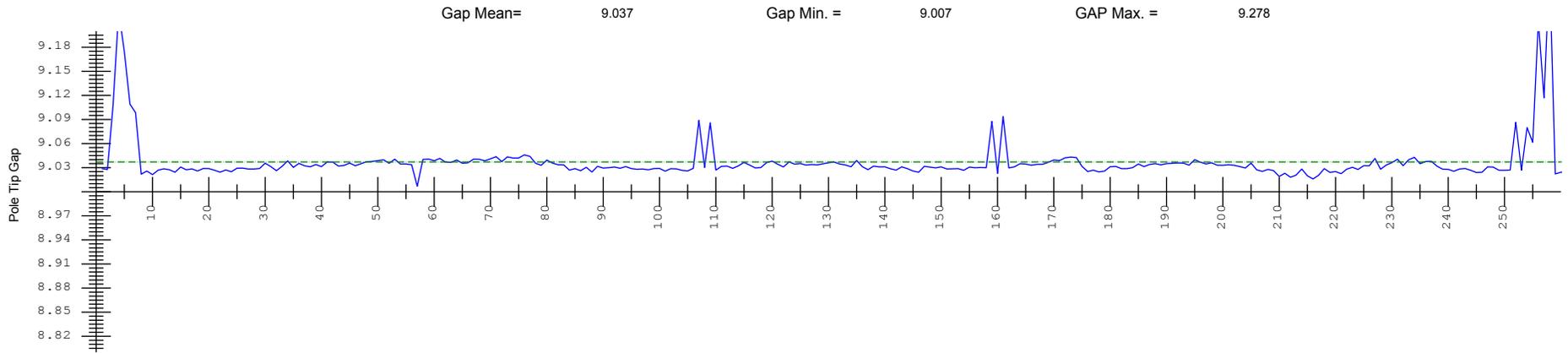
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	9.000	US Full :	8.9998	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5007	DS Wall Half :	4.5032
		US Aisle Half :	4.5040	DS Aisle Half :	4.5027

S/N	: HXU_022
Date	: 16-SEP-2019
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B

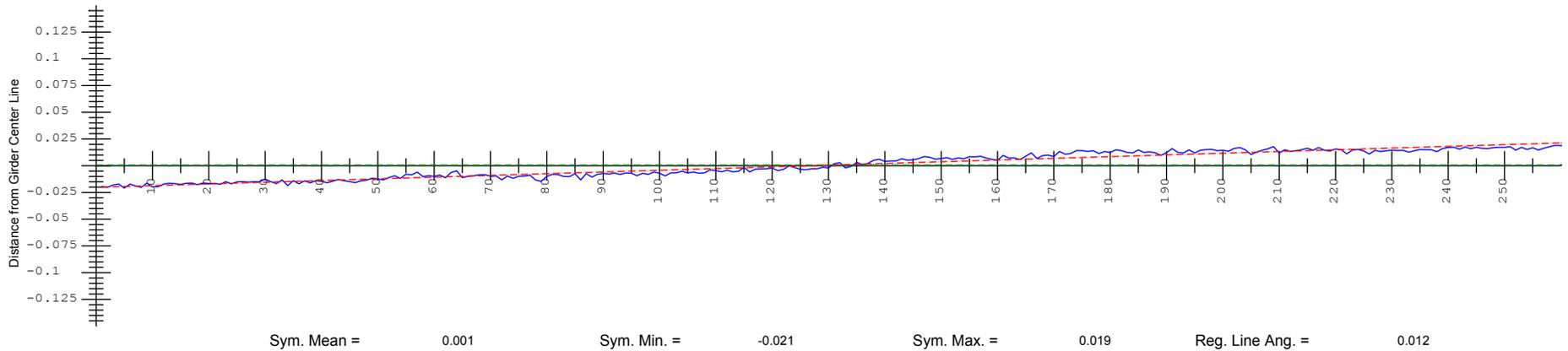


Pole Tip Gap at Nom. Beam Height

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

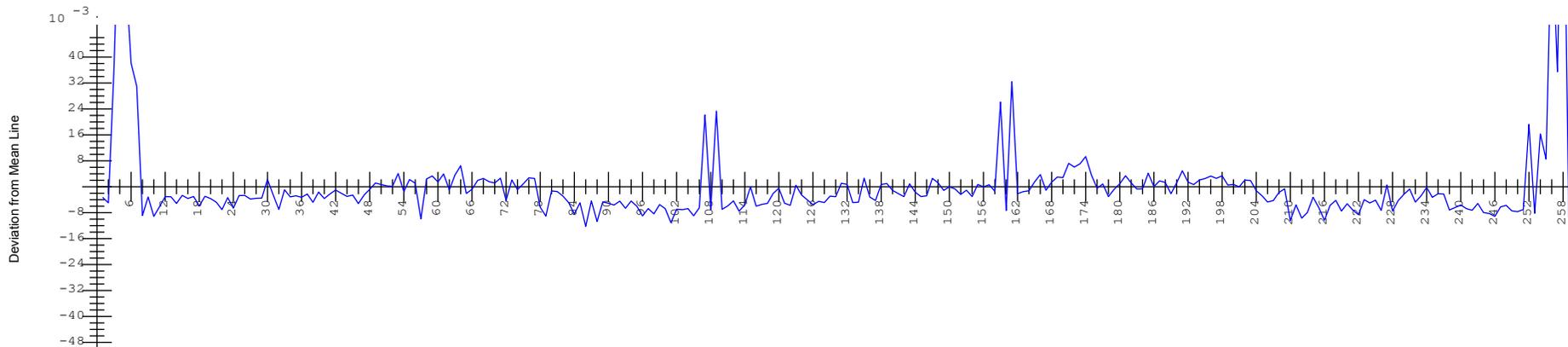
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	9.000	US Full :	8.9998	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5007	DS Wall Half :	4.5032
		US Aisle Half :	4.5040	DS Aisle Half :	4.5027

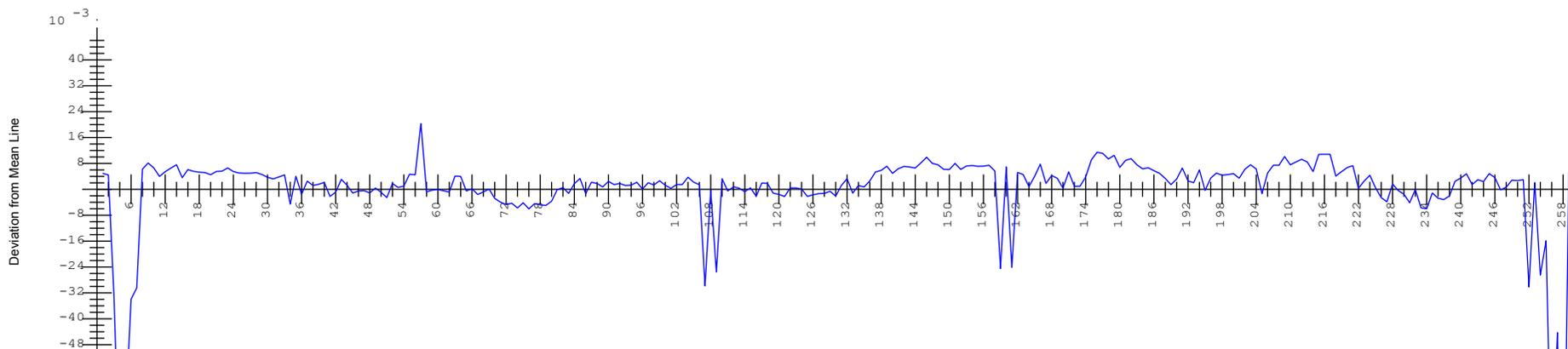
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Date	: 16-SEP-2019
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B



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 :	9.000	US Full :	8.9998	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5007	DS Wall Half :	4.5032
		US Aisle Half :	4.5040	DS Aisle Half :	4.5027

S/N	: HXU_022
Date	: 16-SEP-2019
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B