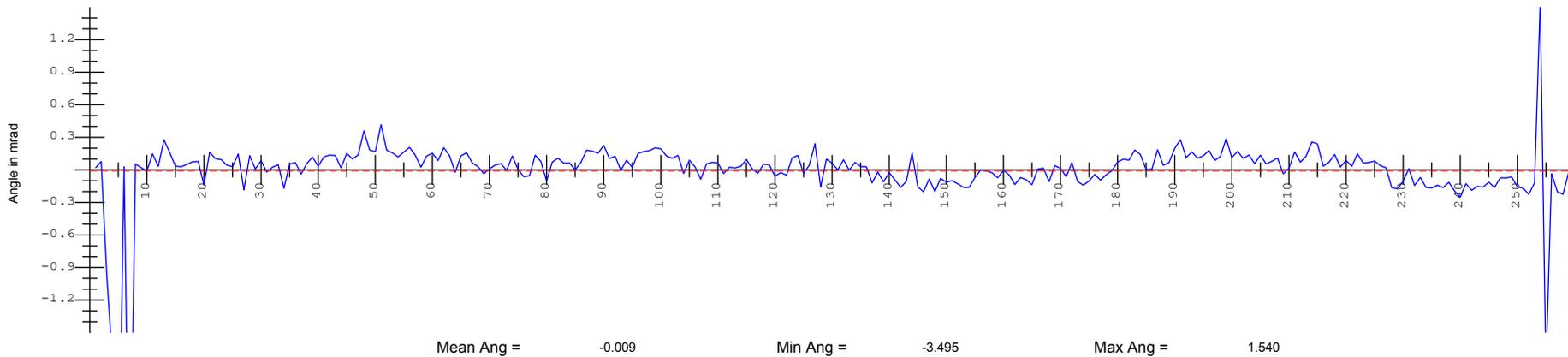


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

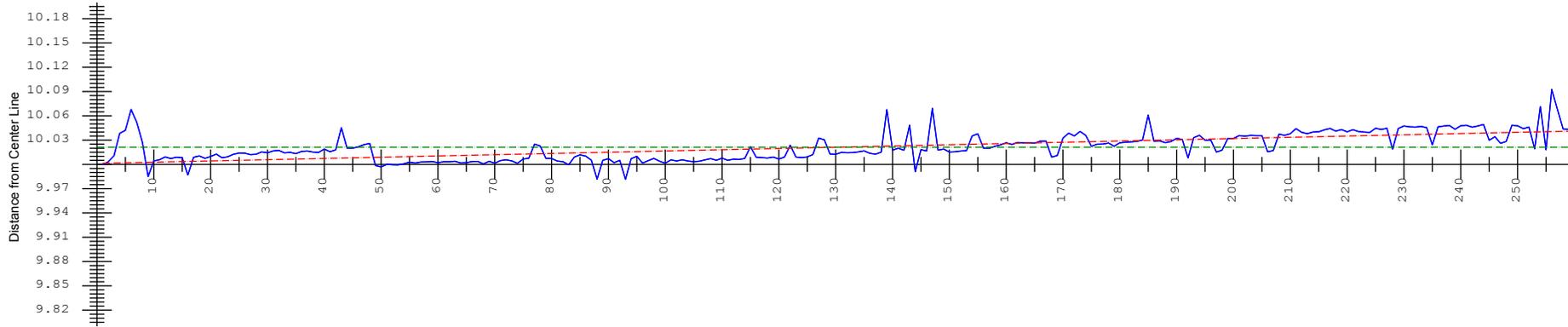


HGVPU - Pole Tip Angles

Nominal Gap :	20.000	US Full :	20.0008	DS Full :	19.9995
Nom. Taper :	0.000	US Wall Half :	9.9936	DS Wall Half :	9.9927
		US Aisle Half :	9.9935	DS Aisle Half :	9.9931

S/N	: HXU_021
Date	: 01-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean = 10.021 Aisle Pole Min. = 9.982 Aisle Pole Max. = 10.093 Reg. Line Ang. = 0.012



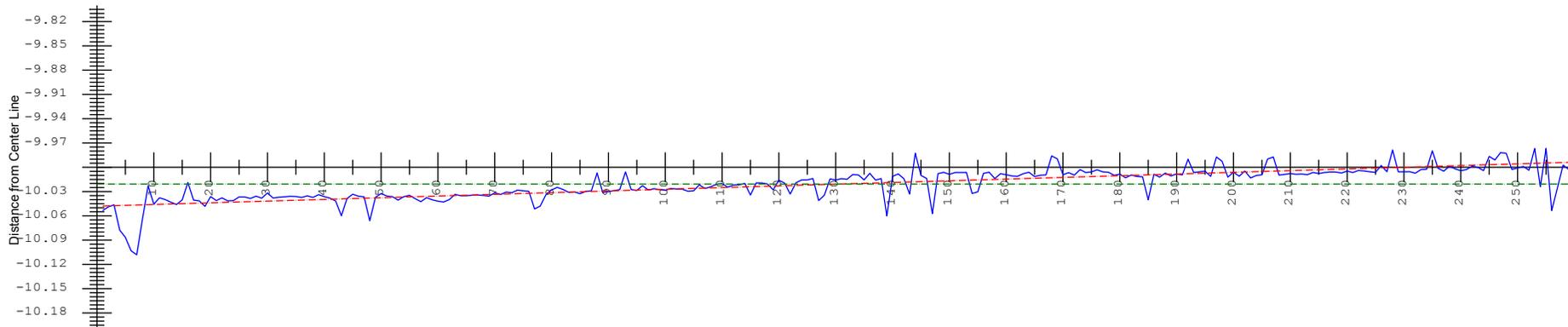
Aisle Pole Tips at Nom. Beam Height

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 = 19.953



Wall Pole Mean = -10.021 Wall Pole Min. = -10.108 Wall Pole Max. = -9.977 Reg. Line Ang. = 0.016

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	20.000	US Full :	20.0008	DS Full :	19.9995
Nom. Taper :	0.000	US Wall Half :	9.9936	DS Wall Half :	9.9927
		US Aisle Half :	9.9935	DS Aisle Half :	9.9931

S/N	: HXU_021
Date	: 01-AUG-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)	10.001	0.000	8.750	
US Wall Pole Tip(1)	-10.048	0.000	8.750	
US Sym. Pt.	-0.023			
US Gap				20.049
DS Aisle Pole Tip(260)	10.041	0.000	3375.750	
DS Wall Pole Tip(260)	-9.994	0.000	3375.750	
DS Sym. Pt.	0.024			
DS Gap				20.035
Taper				-0.014

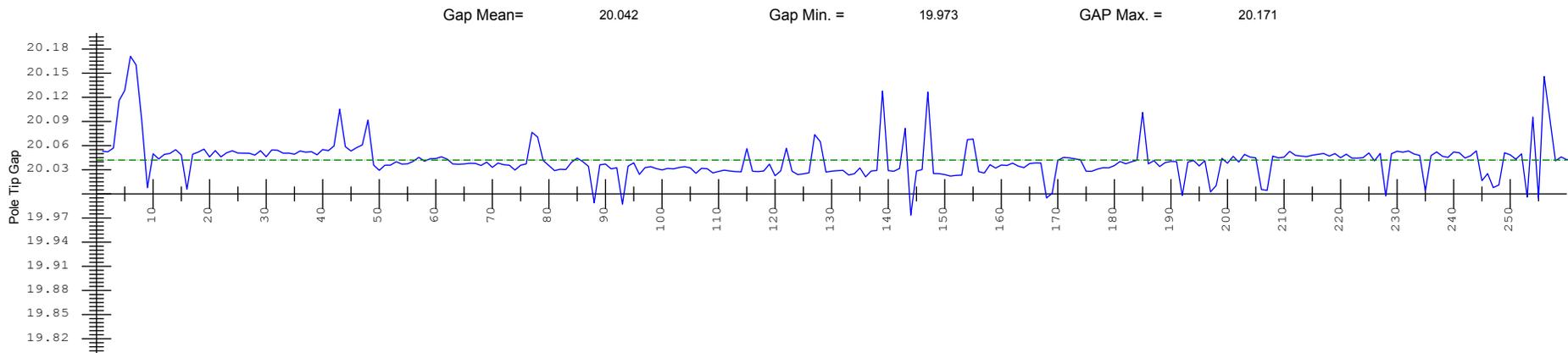
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	20.000	US Full :	20.0008	DS Full :	19.9995
Nom. Taper :	0.000	US Wall Half :	9.9936	DS Wall Half :	9.9927
		US Aisle Half :	9.9935	DS Aisle Half :	9.9931

S/N	: HXU_021
Date	: 01-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

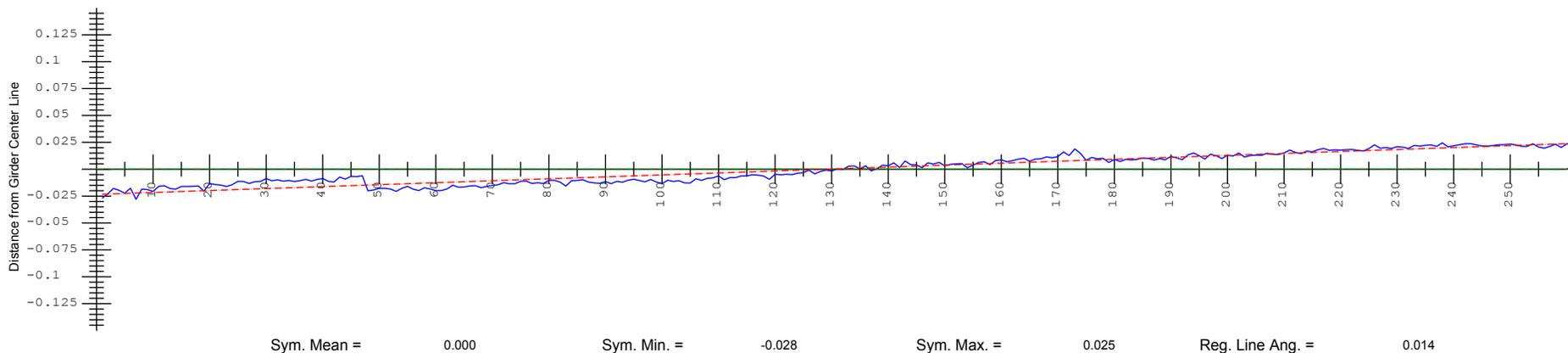


Pole Tip Gap at Nom. Beam Height

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

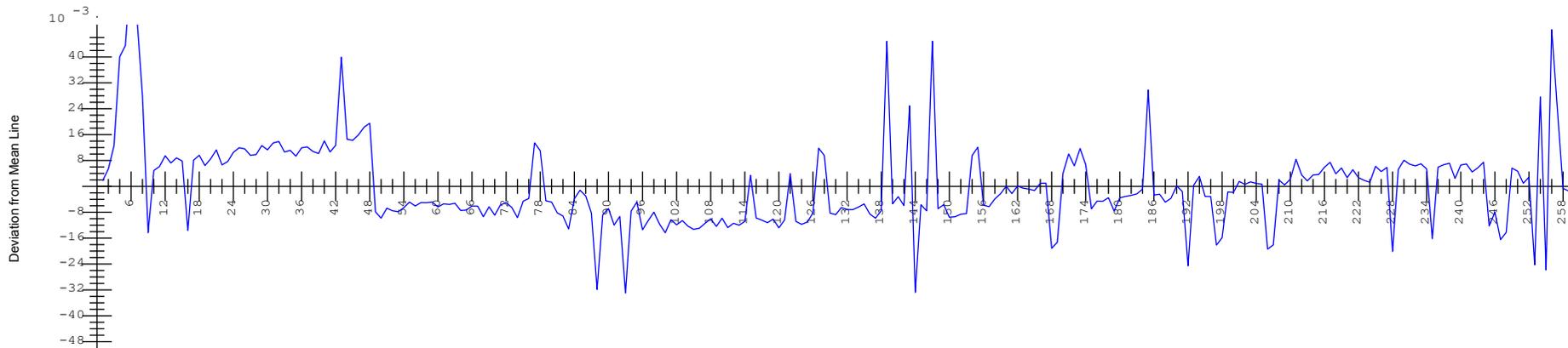
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	20.000	US Full :	20.0008	DS Full :	19.9995
Nom. Taper :	0.000	US Wall Half :	9.9936	DS Wall Half :	9.9927
		US Aisle Half :	9.9935	DS Aisle Half :	9.9931

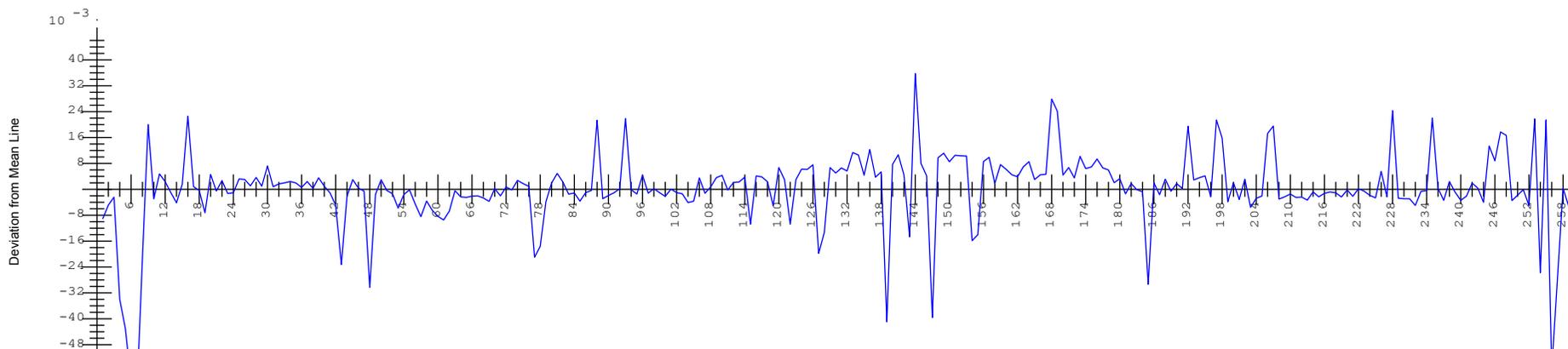
S/N	: HXU_021
Date	: 01-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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 :	20.000	US Full :	20.0008	DS Full :	19.9995
Nom. Taper :	0.000	US Wall Half :	9.9936	DS Wall Half :	9.9927
		US Aisle Half :	9.9935	DS Aisle Half :	9.9931

S/N	: HXU_021
Date	: 01-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B