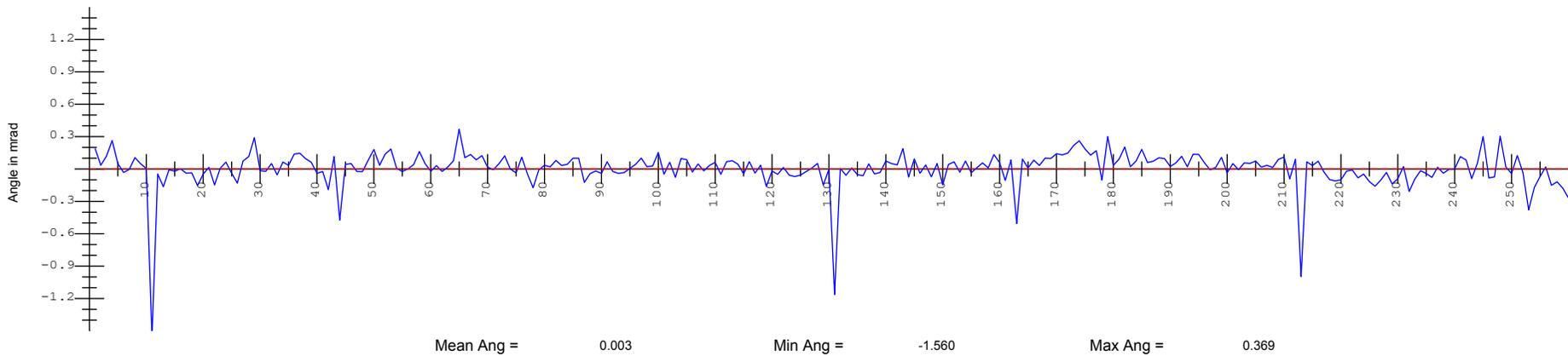




Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

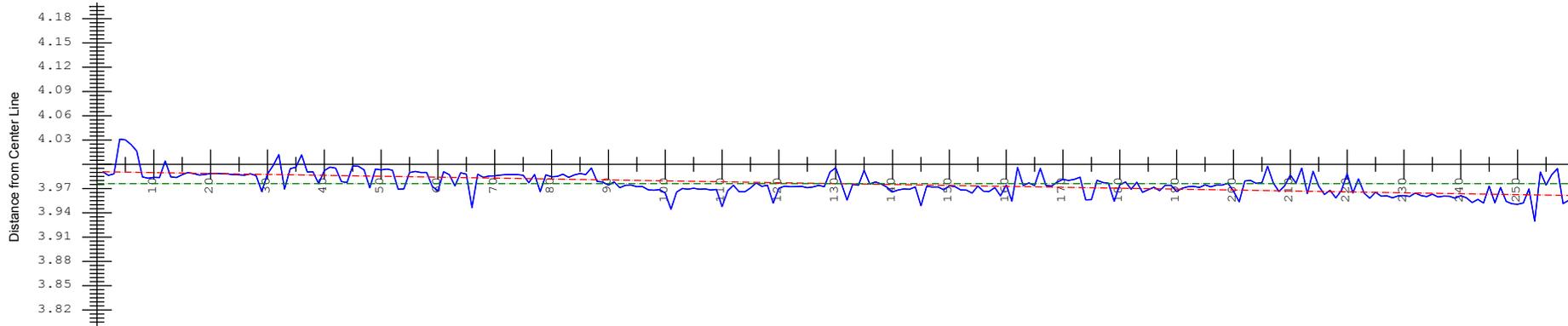


HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9994	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0031	DS Wall Half :	3.9534
		US Aisle Half :	4.0016	DS Aisle Half :	3.9544

S/N	: HXU_023
Date	: 26-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean = 3.976 Aisle Pole Min. = 3.930 Aisle Pole Max. = 4.031 Reg. Line Ang. = -0.009



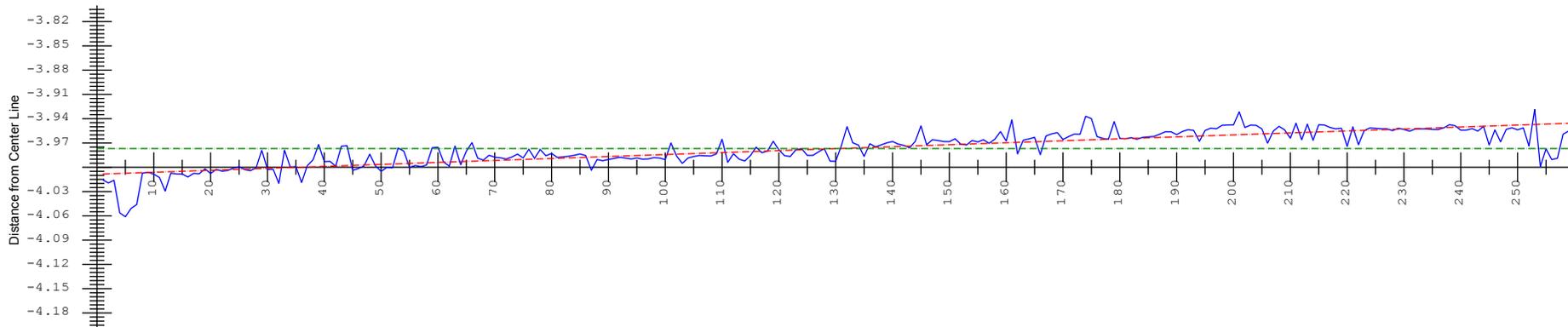
Aisle Pole Tips at Nom. Beam Height

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 = 7.857



Wall Pole Mean = -3.977 Wall Pole Min. = -4.061 Wall Pole Max. = -3.929 Reg. Line Ang. = 0.019

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 :	7.9994	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0031	DS Wall Half :	3.9534
		US Aisle Half :	4.0016	DS Aisle Half :	3.9544

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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)	3.991	0.000	8.750	
US Wall Pole Tip(1)	-4.008	0.000	8.750	
US Sym. Pt.	-0.009			
US Gap				7.999
DS Aisle Pole Tip(260)	3.961	0.000	3375.750	
DS Wall Pole Tip(260)	-3.945	0.000	3375.750	
DS Sym. Pt.	0.008			
DS Gap				7.907
Taper				-0.092

Dimensions in MM

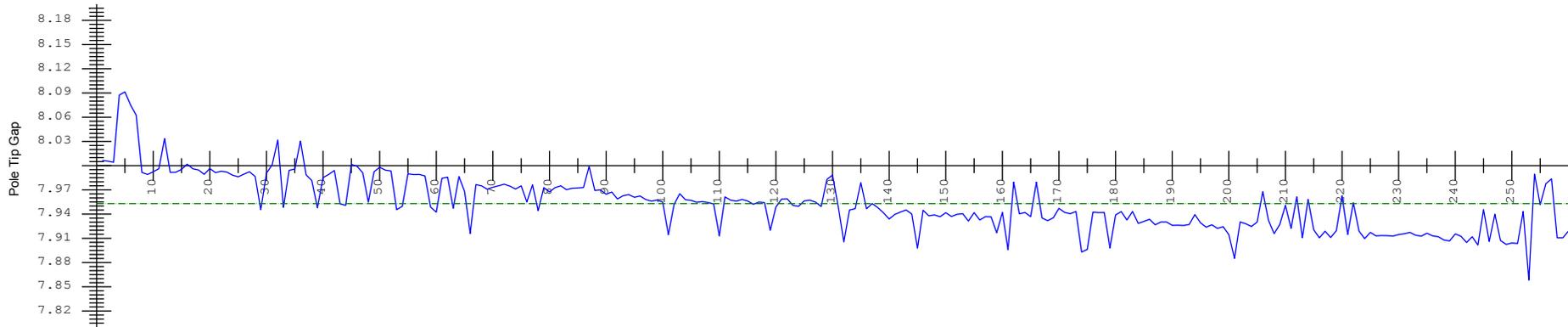


HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	8.000	US Full :	7.9994	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0031	DS Wall Half :	3.9534
		US Aisle Half :	4.0016	DS Aisle Half :	3.9544

S/N	: HXU_023
Date	: 26-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Gap Mean= 7.953 Gap Min. = 7.858 GAP Max. = 8.091

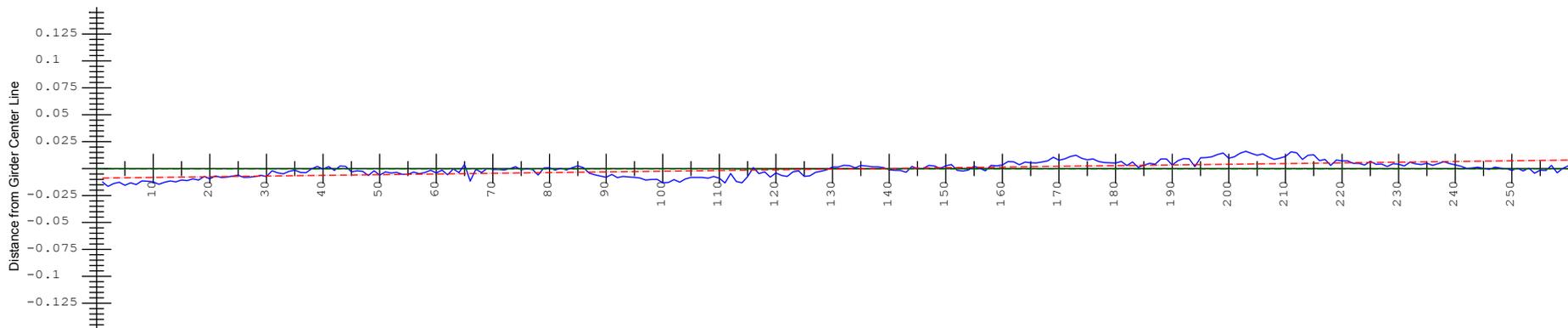


Pole Tip Gap at Nom. Beam Height

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 = 0.000 Sym. Min. = -0.017 Sym. Max. = 0.016 Reg. Line Ang. = 0.005

Girder centerline in reference to Pointed Magnets

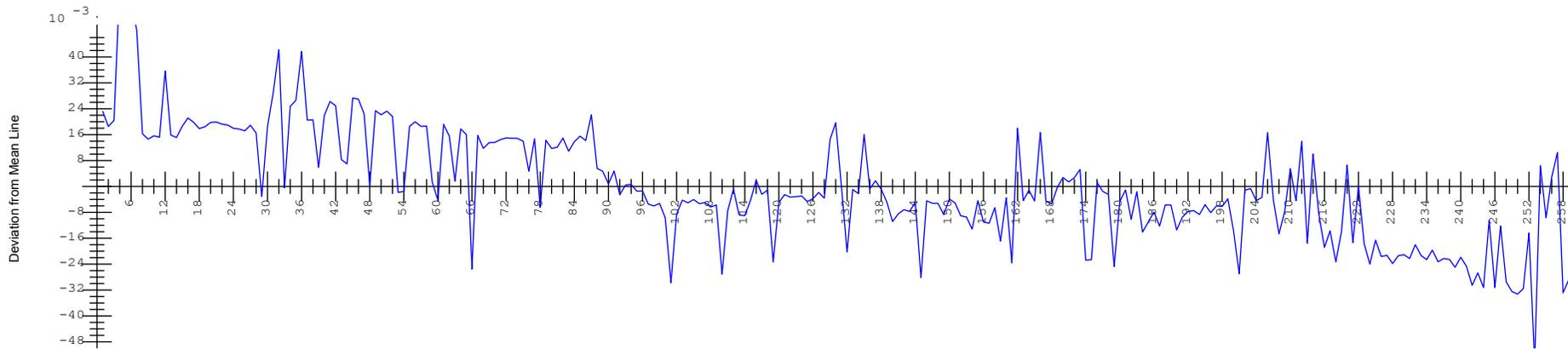
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	7.9994	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0031	DS Wall Half :	3.9534
		US Aisle Half :	4.0016	DS Aisle Half :	3.9544

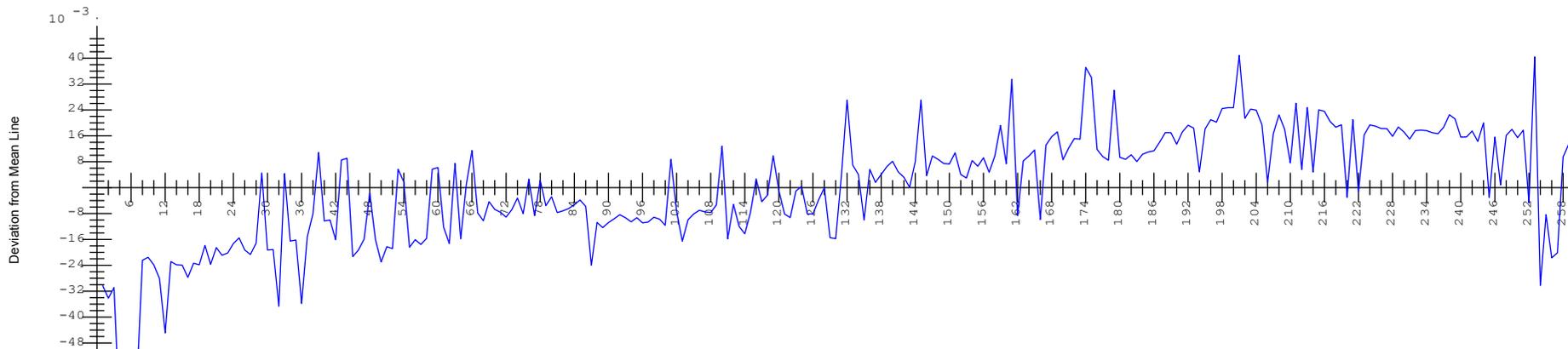
S/N	: HXU_023
Date	: 26-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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 :	8.000	US Full :	7.9994	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0031	DS Wall Half :	3.9534
		US Aisle Half :	4.0016	DS Aisle Half :	3.9544

S/N	: HXU_023
Date	: 26-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B