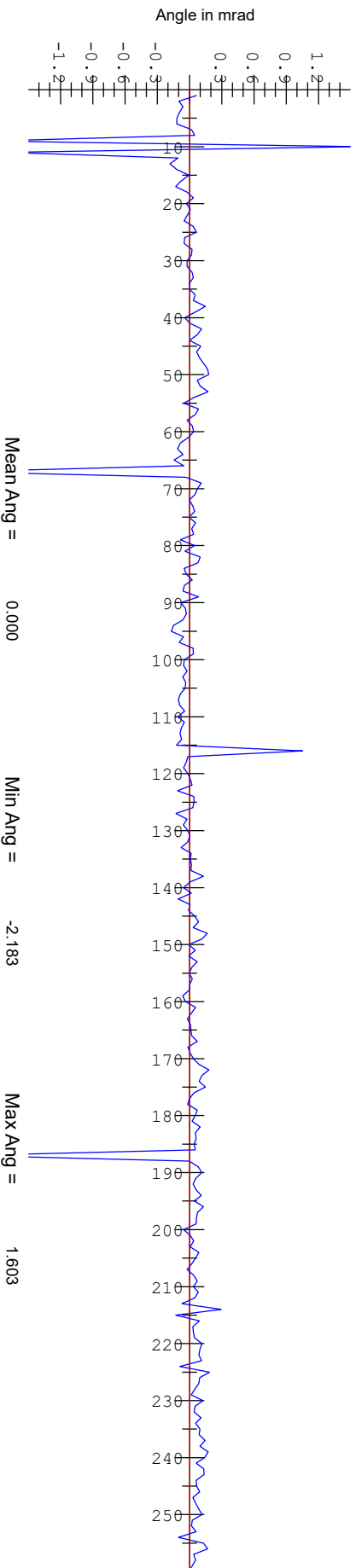


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

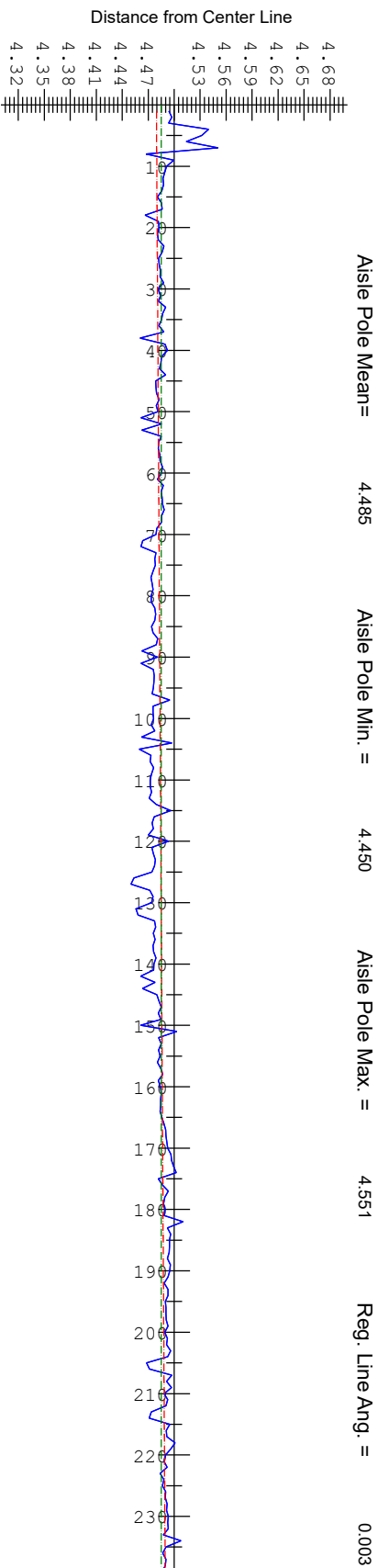


METROLOGY

HGVPU - Pole Tip Angles

Nominal Gap :	9.000	US Full :	9.0001	DS Full :	8.9999
Nom. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4992
		US Aisle Half :	4.4991	DS Aisle Half :	4.4989

S/N	: HXU_011
Date	: 26-OCT-2021
Data Set	: 0004
Run	: FINAL
Cam Pos.	: B



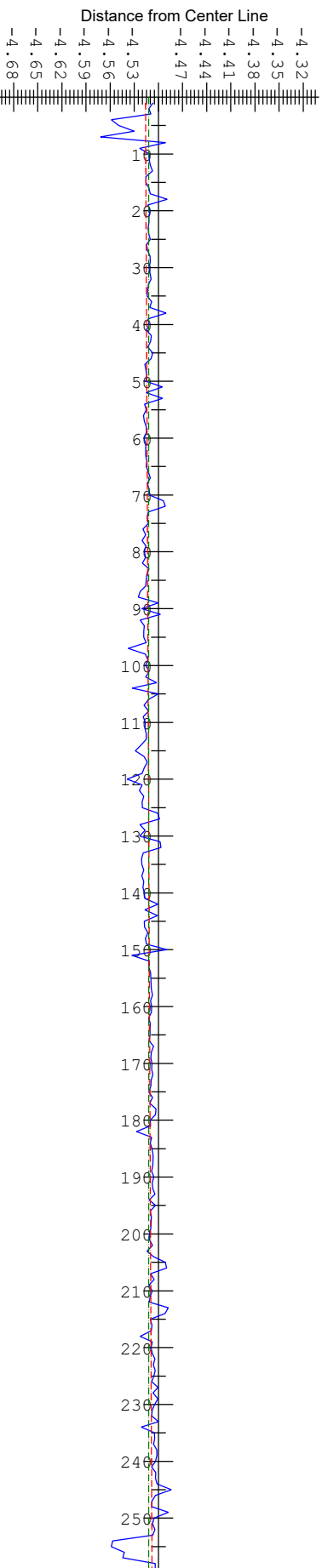
Pole Tip Num. ----->

Aisle Pole Tips at Nom. Beam Height

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

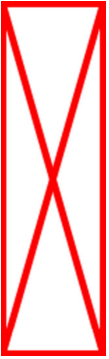
Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 8.900



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



METROLOGY

HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	9.000	US Full :	9.0001	DS Full :	8.9999
Nom. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4992
		US Aisle Half :	4.4991	DS Aisle Half :	4.4989

S/N	: HXU_011
Date	: 26-OCT-2021
Data Set	: 0004
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)	4.479	0.000	8.750	
US Wall Pole Tip(1)	-4.516	0.000	8.750	
US Sym. Pt.	-0.018			
US Gap				8.996
DS Aisle Pole Tip(260)	4.490	0.000	3375.750	
DS Wall Pole Tip(260)	-4.508	0.000	3375.750	
DS Sym. Pt.	-0.009			
DS Gap				8.998
Taper				0.003

Dimensions in MM

HGVPU - Gap Calc. from Regression Line End Points

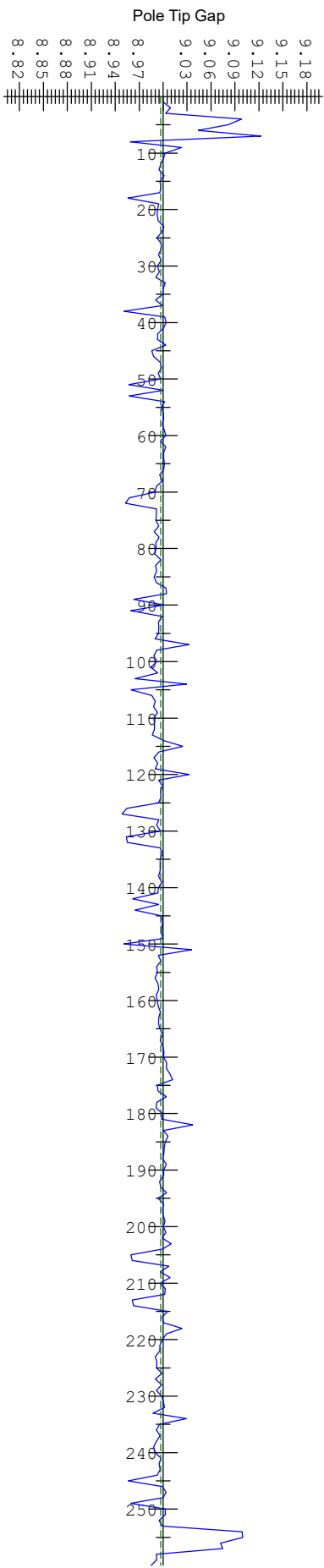
Nominal Gap :	9.000	US Full :	9.0001	DS Full :	8.9999
Norm. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4992
		US Aisle Half :	4.4991	DS Aisle Half :	4.4989

METROLOGY



S/N	: HXU_011
Date	: 26-OCT-2021
Data Set	: 0004
Run	: FINAL
Cam Pos.	: B

Gap Mean = 8.997 Gap Min. = 8.949 GAP Max. = 9.123

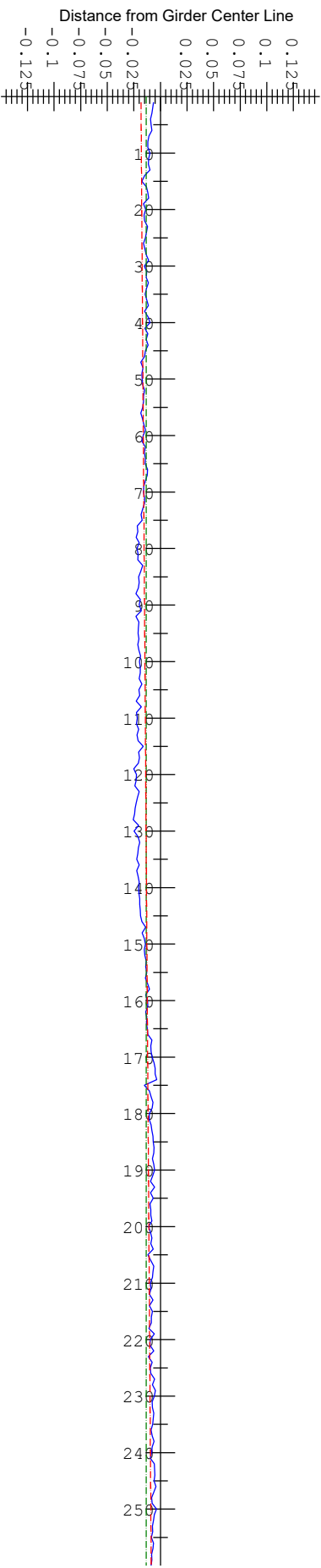


Pole Tip Gap at Nom. Beam Height

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

Pole Tip Num. ----->

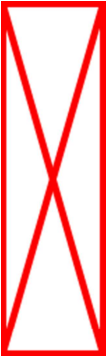
Pole Tip Symmetry Point at Nom. Beam Height



Sym. Mean = -0.013 Sym. Min. = -0.025 Sym. Max. = -0.004 Reg. Line Ang. = 0.003

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

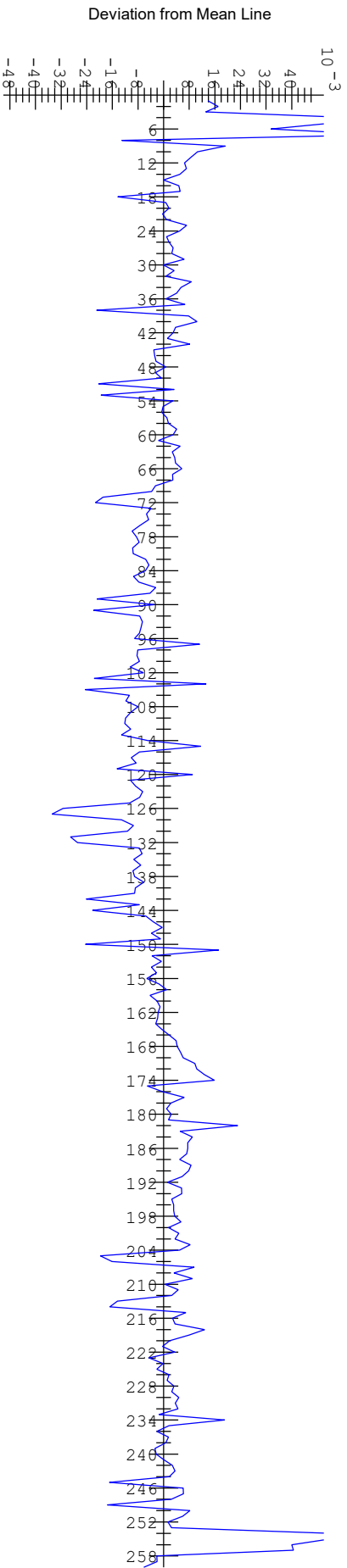


METROLOGY

HGVPU - Pole Tip Gap and Symmetry Point Location

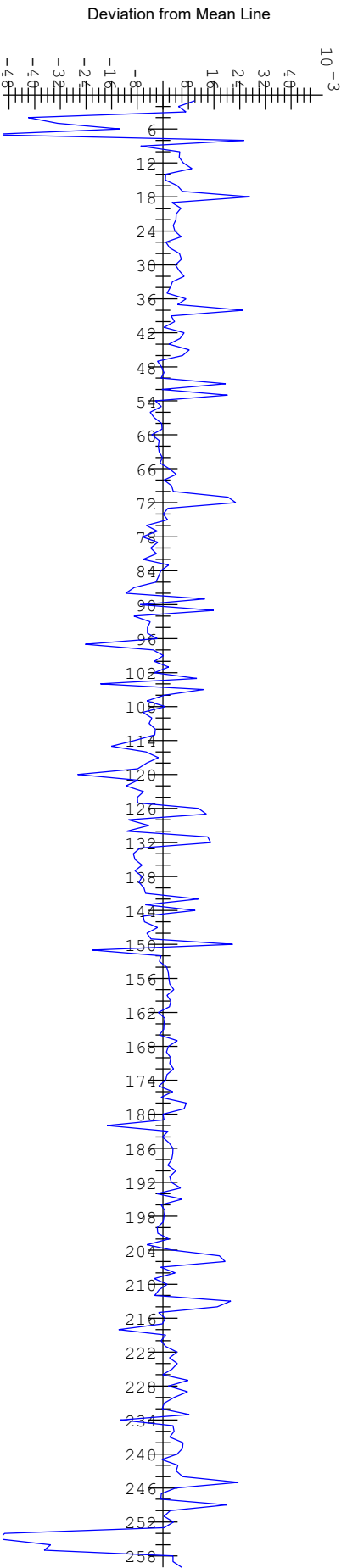
Nominal Gap :	9.000	US Full :	9.0001	DS Full :	8.9999
Nom. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4992
		US Aisle Half :	4.4991	DS Aisle Half :	4.4989

S/N	: HXU_011
Date	: 26-OCT-2021
Data Set	: 0004
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



METROLOGY

HGVPU - Pole Tip Deviation from Mean Line

Nominal Gap :	9.000	US Full :	9.0001	DS Full :	8.9999
Nom. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4992
		US Aisle Half :	4.4991	DS Aisle Half :	4.4989

S/N	: HXU_011
Date	: 26-OCT-2021
Data Set	: 0004
Run	: FINAL
Cam Pos.	: B