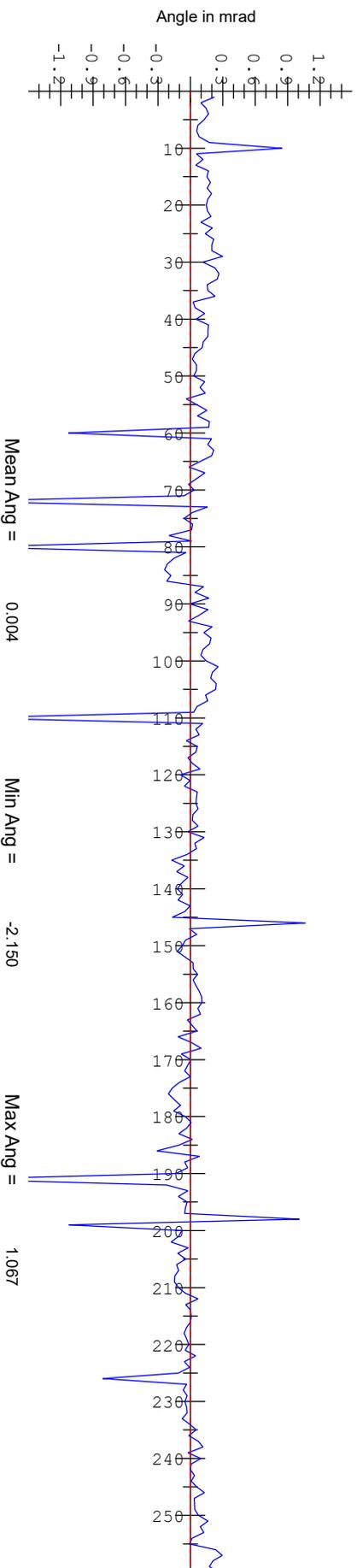


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

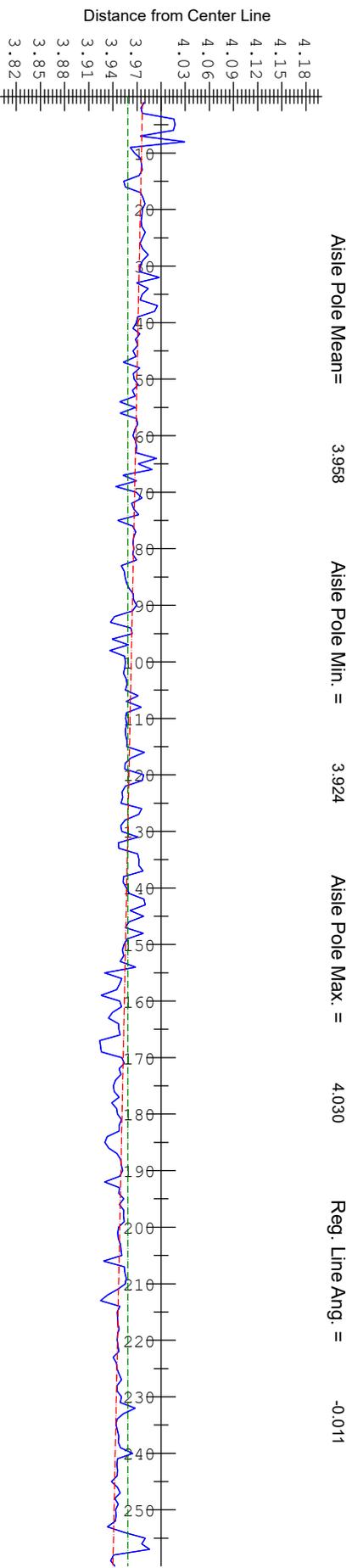


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HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0017	DS Wall Half :	3.9512
		US Aisle Half :	4.0018	DS Aisle Half :	3.9545

S/N	: HXU 016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

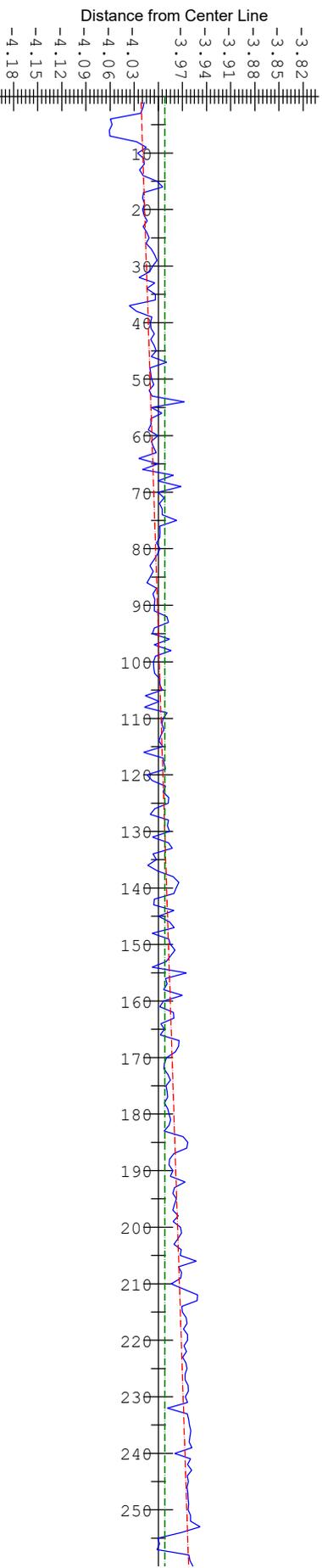


Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. ----->

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

Minimum Clearance Gap = 7.847



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

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HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap : 8.000 US Full : 7.9997 DS Full : 7.8997

Nom. Taper : -0.100 US Wall Half : 4.0017 DS Wall Half : 3.9512

US Aisle Half : 4.0018 DS Aisle Half : 3.9545

S/N : **HXU 016**

Date : **10-SEP-2020**

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)	3.977	0.000	8.750	
US Wall Pole Tip(1)	-4.021	0.000	8.750	
US Sym. Pt.	-0.022			
US Gap				7.998
DS Aisle Pole Tip(260)	3.940	0.000	3375.750	
DS Wall Pole Tip(260)	-3.962	0.000	3375.750	
DS Sym. Pt.	-0.011			
DS Gap				7.902
Taper				-0.096

Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

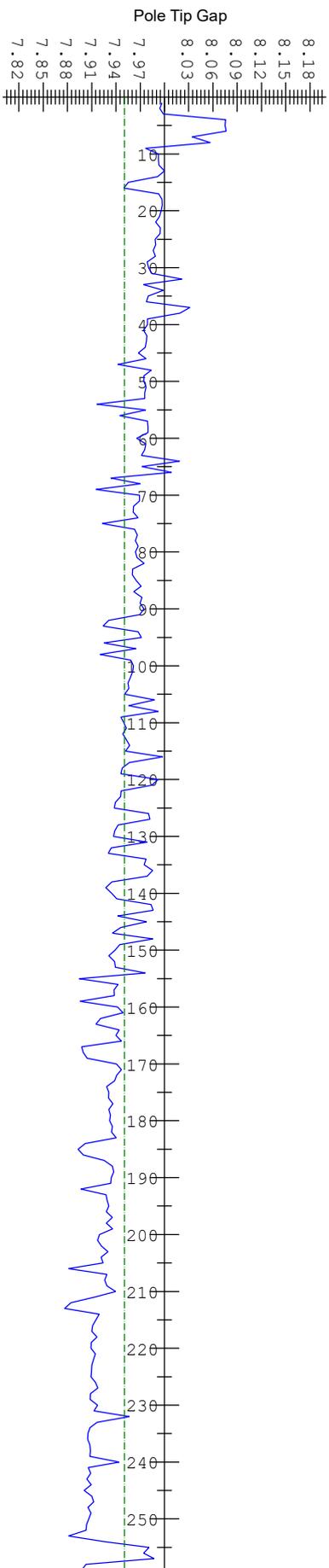
Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Norm. Taper :	-0.100	US Wall Half :	4.0017	DS Wall Half :	3.9512
		US Aisle Half :	4.0018	DS Aisle Half :	3.9545

S/N	: HXU_016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Gap Mean = 7.950

Gap Min. = 7.877

Gap Max. = 8.076

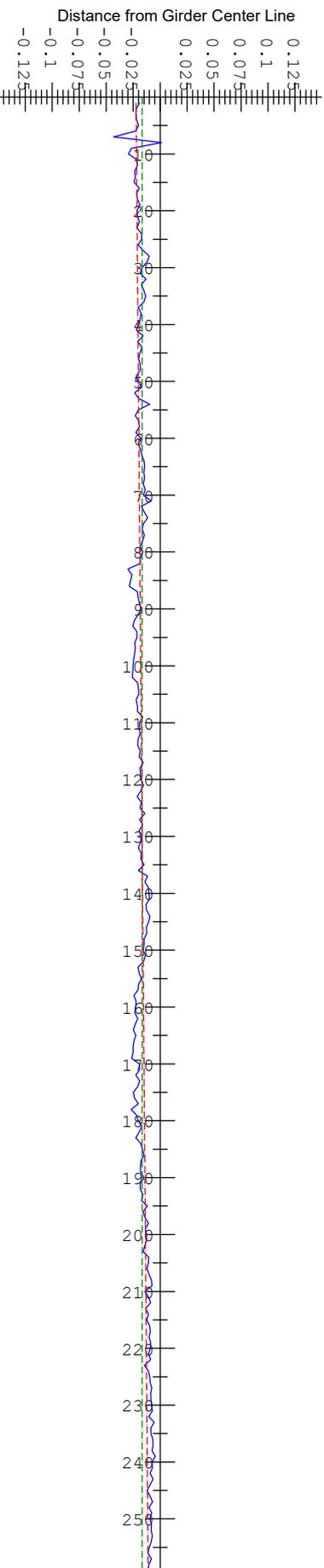


Pole Tip Gap at Nom. Beam Height

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 =

-0.017

Sym. Min. =

-0.043

Sym. Max. =

0.001

Reg. Line Ang. =

0.003

Girder centerline in reference to Pointed Magnets

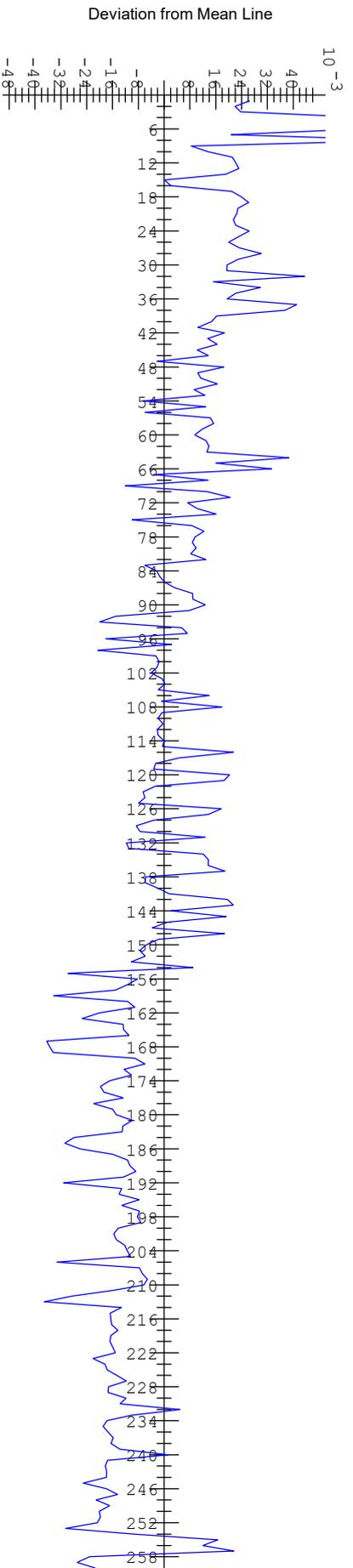
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

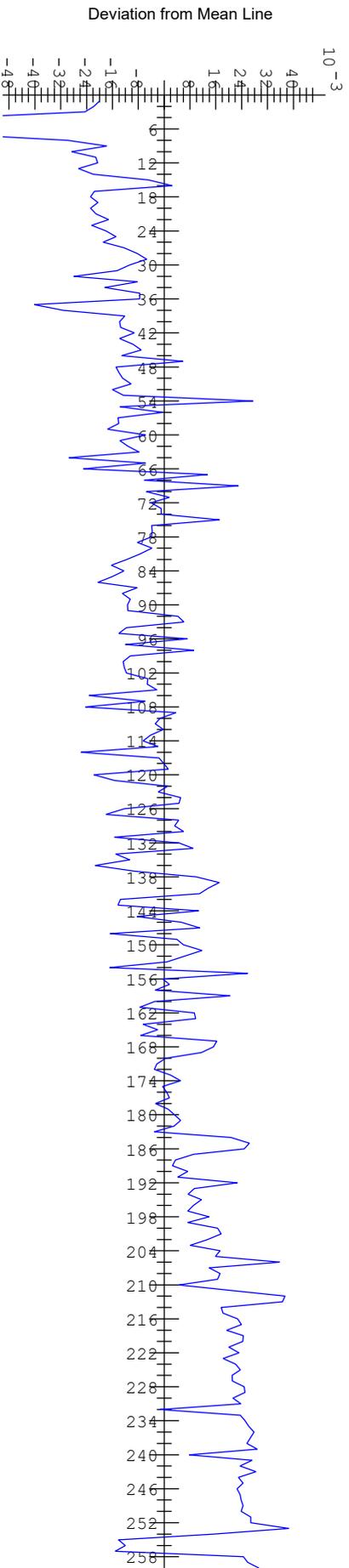
Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0017	DS Wall Half :	3.9512
		US Aisle Half :	4.0018	DS Aisle Half :	3.9545

S/N	: HXU 016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



Aisle Pole Tips

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 :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0017	DS Wall Half :	3.9512
		US Aisle Half :	4.0018	DS Aisle Half :	3.9545

S/N	: HXU_016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B