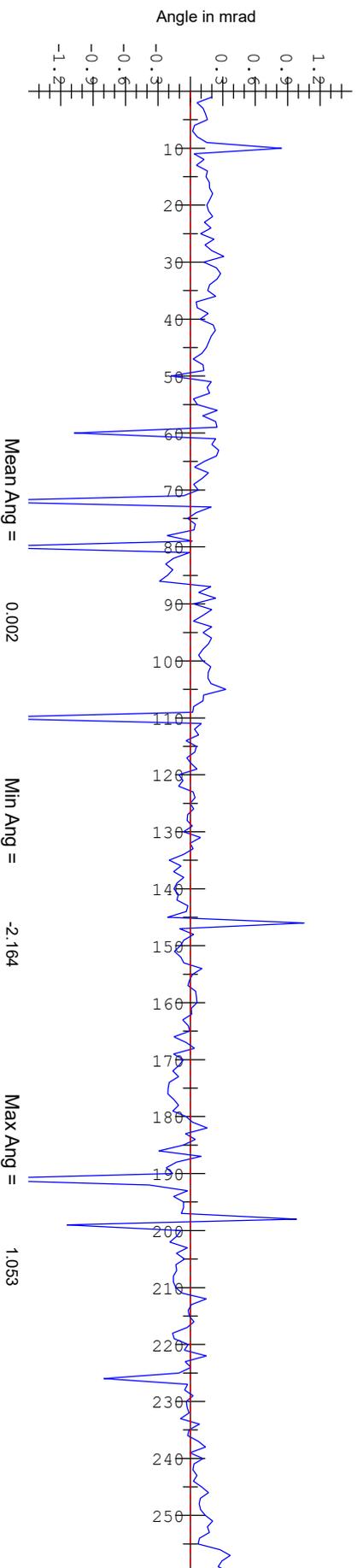


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



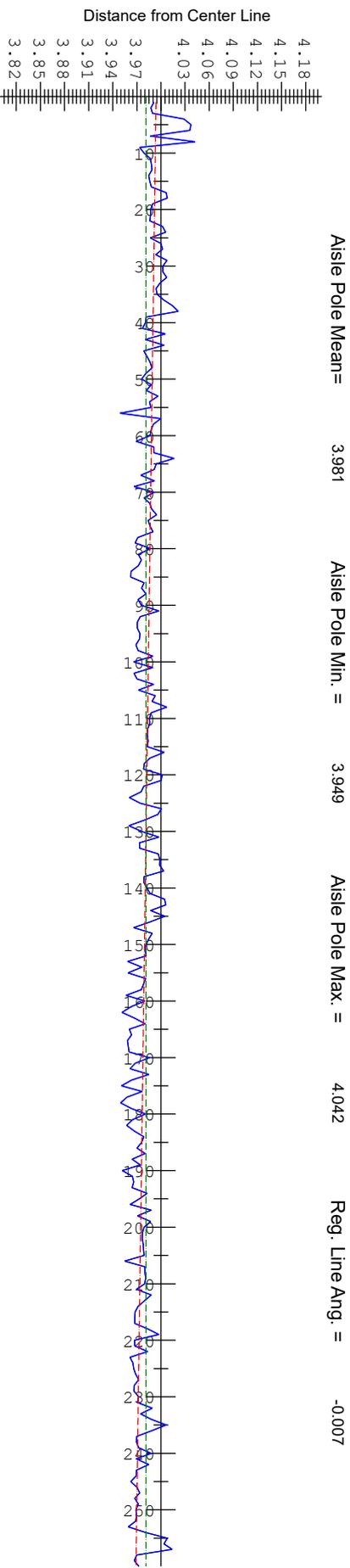
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9998	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0034	DS Wall Half :	3.9522
		US Aisle Half :	4.0026	DS Aisle Half :	3.9551

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Data Set	: 0002
Run	: FINAL
Cam Pos.	: B



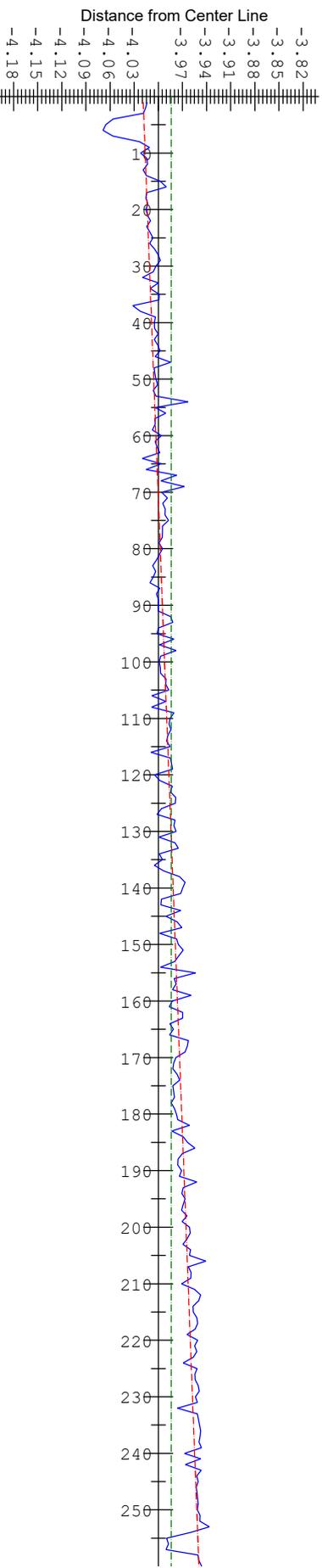
Pole Tip Num. ----->

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 = 7.873



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	8.000	US Full :	7.9998	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0034	DS Wall Half :	3.9522
		US Aisle Half :	4.0026	DS Aisle Half :	3.9551

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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)	3.994	0.000	8.750	
US Wall Pole Tip(1)	-4.019	0.000	8.750	
US Sym. Pt.	-0.012			
US Gap				8.013
DS Aisle Pole Tip(260)	3.969	0.000	3375.750	
DS Wall Pole Tip(260)	-3.949	0.000	3375.750	
DS Sym. Pt.	0.010			
DS Gap				7.918
Taper				-0.094

Dimensions in MM

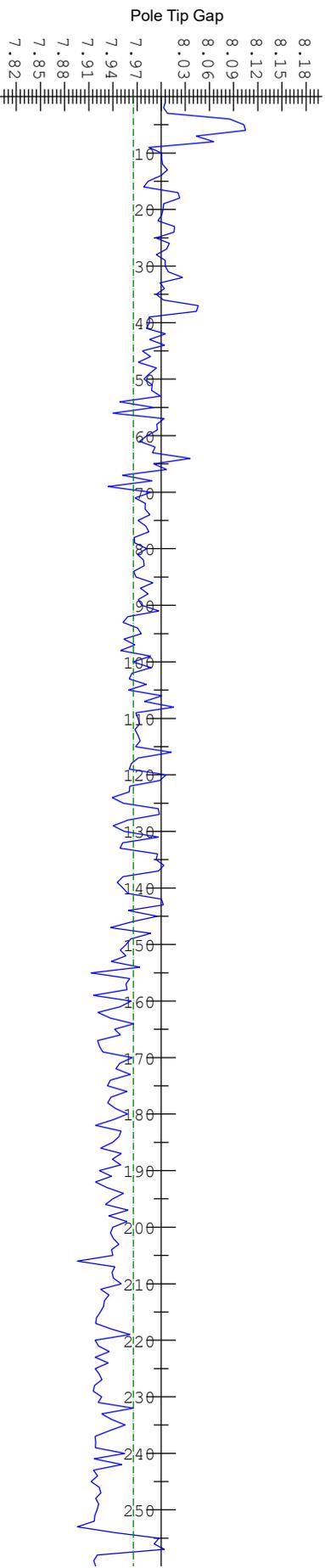


HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	8.000	US Full :	7.9998	DS Full :	7.8998
US Wall Half :	4.0034	DS Wall Half :	3.9522		
US Aisle Half :	4.0026	DS Aisle Half :	3.9551		
Nom. Taper :	-0.100				

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Cam Pos.	: B

Gap Mean = 7.965 Gap Min. = 7.896 GAP Max. = 8.105

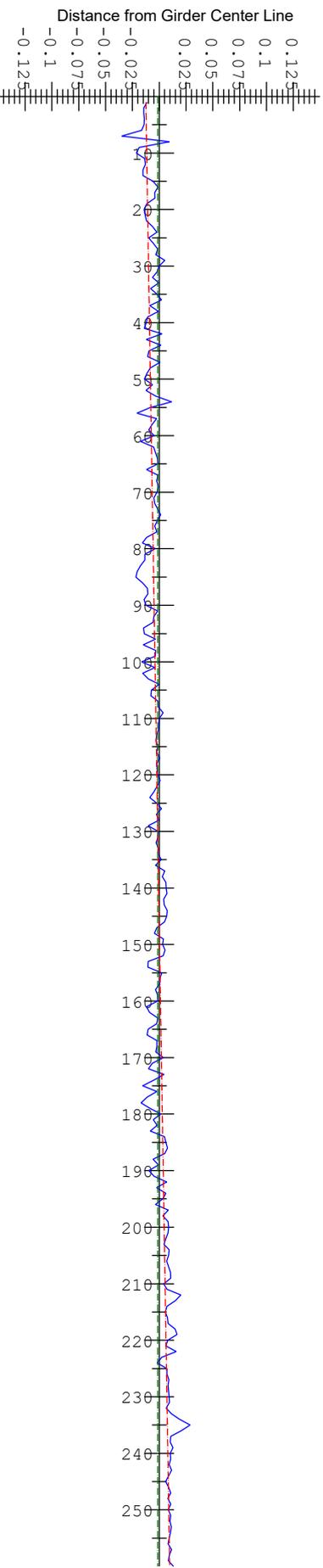


Pole Tip Gap at Nom. Beam Height

Pole Tip Num. ----->

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

Pole Tip Symmetry Point at Nom. Beam Height



Sym. Mean = -0.001 Sym. Min. = -0.035 Sym. Max. = 0.029 Reg. Line Ang. = 0.007

Girder centerline in reference to Pointed Magnets

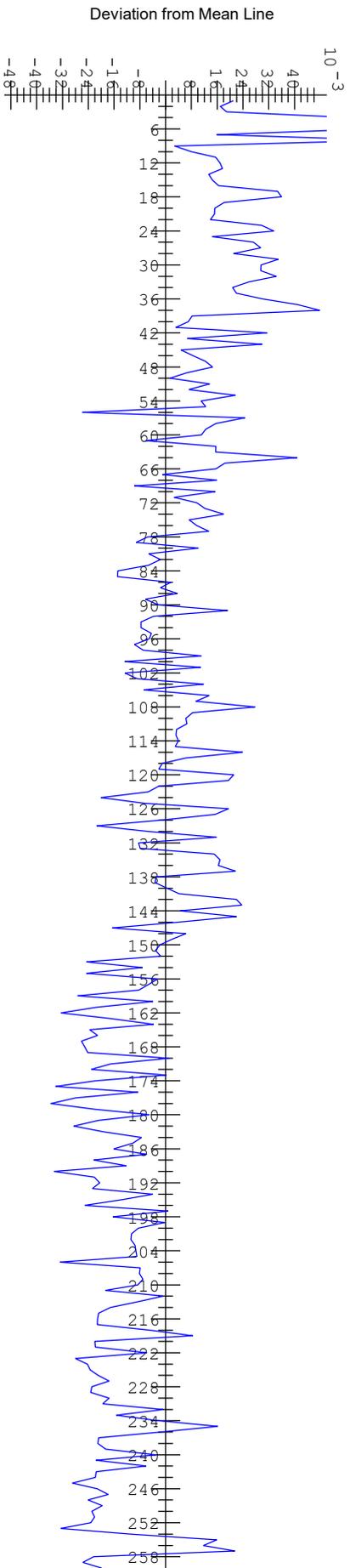
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Gap and Symmetry Point Location

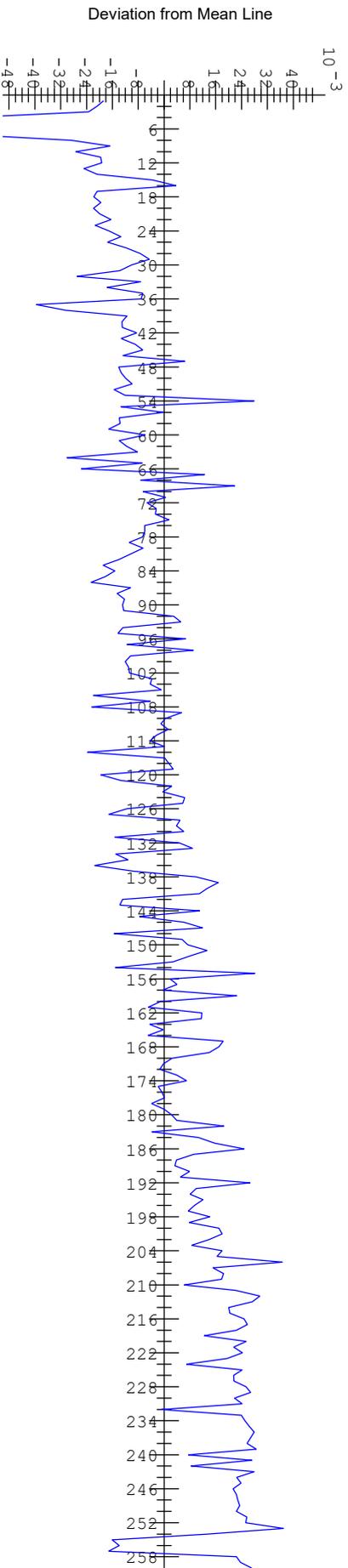
Nominal Gap :	8.000	US Full :	7.9998	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0034	DS Wall Half :	3.9522
		US Aisle Half :	4.0026	DS Aisle Half :	3.9551

S/N	: HXU 016
Date	: 22-JAN-2021
Data Set	: 0002
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 :	7.9998	DS Full :	7.8998
Nom. Taper :	-0.100	US Wall Half :	4.0034	DS Wall Half :	3.9522
		US Aisle Half :	4.0026	DS Aisle Half :	3.9551

S/N	: HXU 016
Date	: 22-JAN-2021
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B