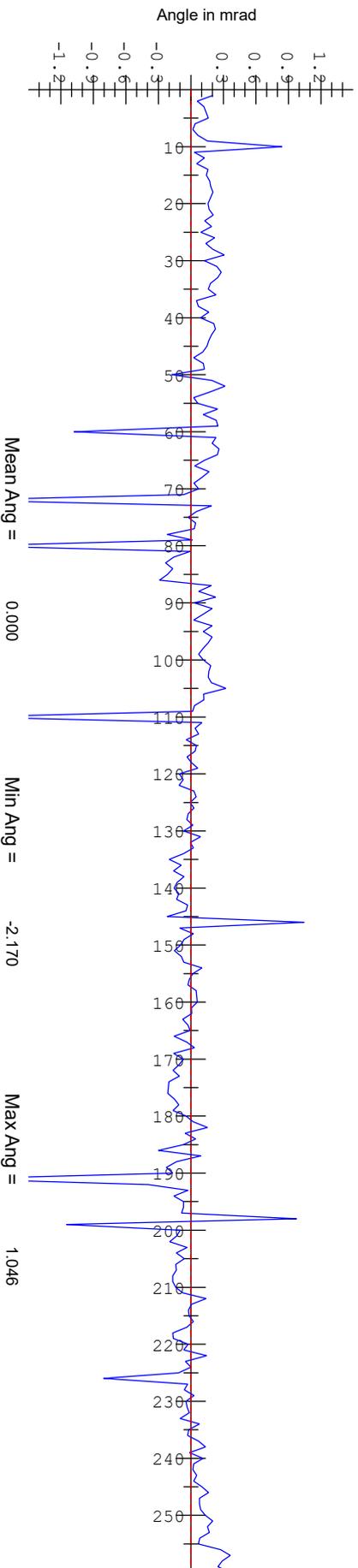


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



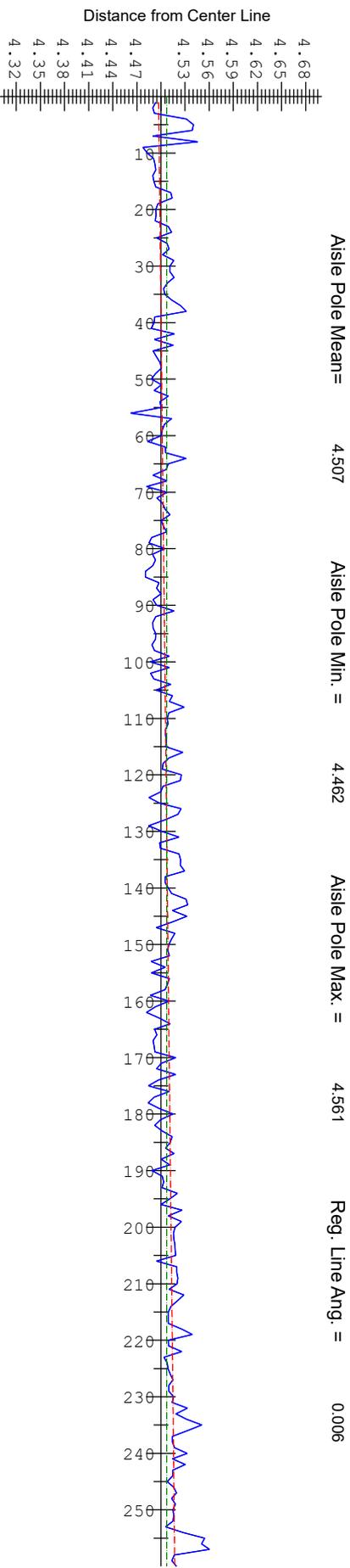
Dimensions in MM, Angles in Milliradians



HGVPU - Pole Tip Angles

Nominal Gap :	9.000	US Full :	9.0001	DS Full :	9.0006
Nom. Taper :	0.000	US Wall Half :	4.5015	DS Wall Half :	4.5015
		US Aisle Half :	4.5004	DS Aisle Half :	4.5005

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

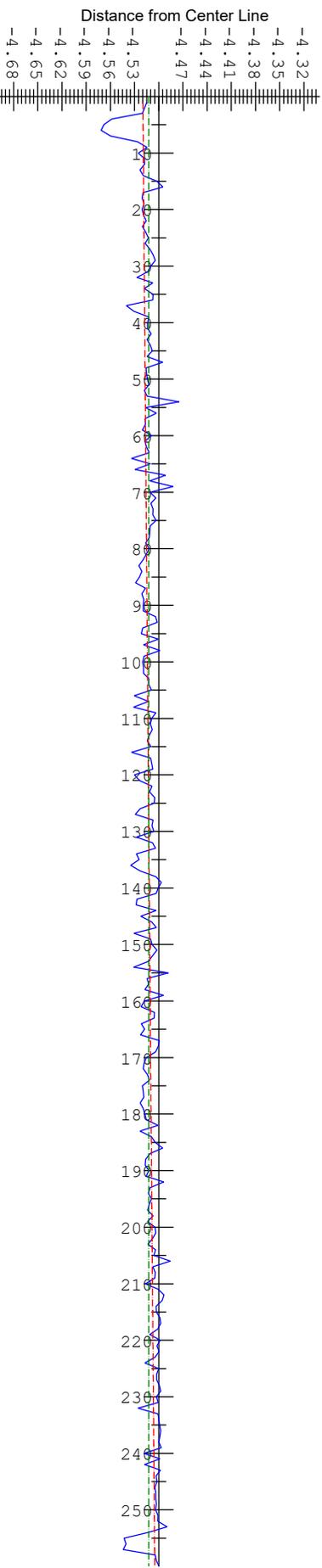


Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. ----->

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

Minimum Clearance Gap = 8.925



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 : 9.000 US Full : 9.0001 DS Full : 9.0006

Nom. Taper : 0.000 US Wall Half : 4.5015 DS Wall Half : 4.5015

US Aisle Half : 4.5004 DS Aisle Half : 4.5005

S/N : HXU 016
 Date : 22-JAN-2021
 Data Set : 0002
 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)	4.497	0.000	8.750	
US Wall Pole Tip(1)	-4.520	0.000	8.750	
US Sym. Pt.	-0.011			
US Gap				9.017
DS Aisle Pole Tip(260)	4.517	0.000	3375.750	
DS Wall Pole Tip(260)	-4.505	0.000	3375.750	
DS Sym. Pt.	0.006			
DS Gap				9.022
Taper				0.005

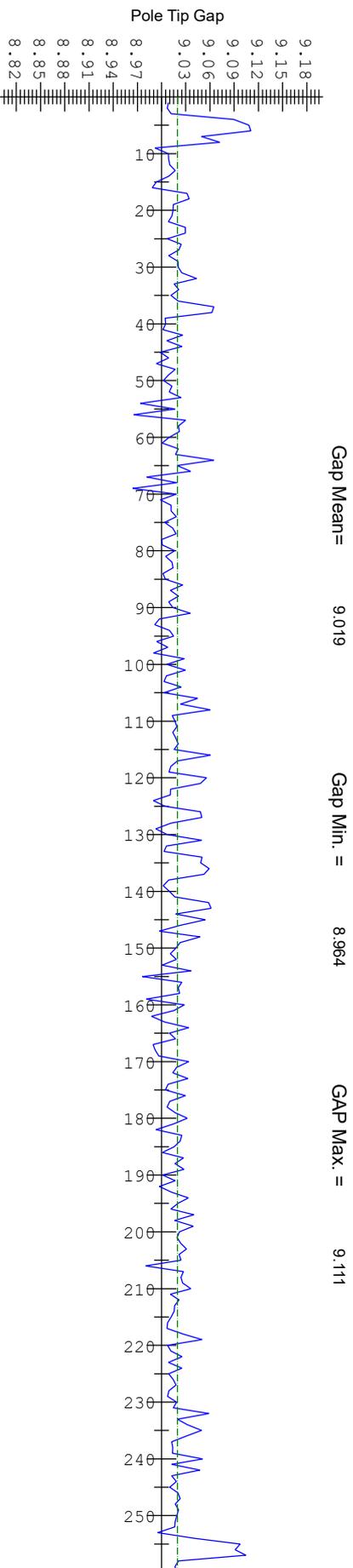
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap : 9.000 US Full : 9.0001 DS Full : 9.0006
 US Wall Half : 4.5015 DS Wall Half : 4.5015
 Nom. Taper : 0.000 US Aisle Half : 4.5004 DS Aisle Half : 4.5005

S/N : HXU_016
 Date : 22-JAN-2021
 Data Set : 0002
 Run : FINAL
 Cam Pos. : B

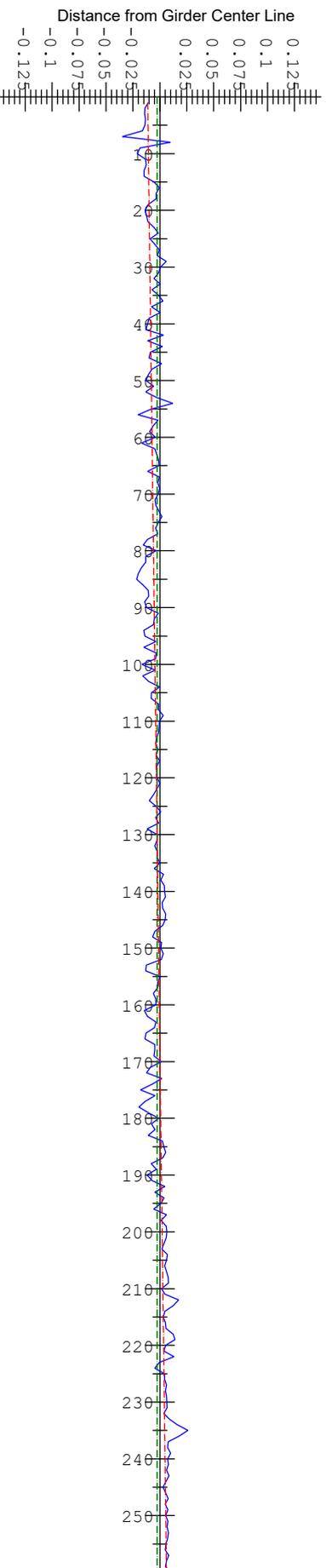


Pole Tip Gap at Nom. Beam Height

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

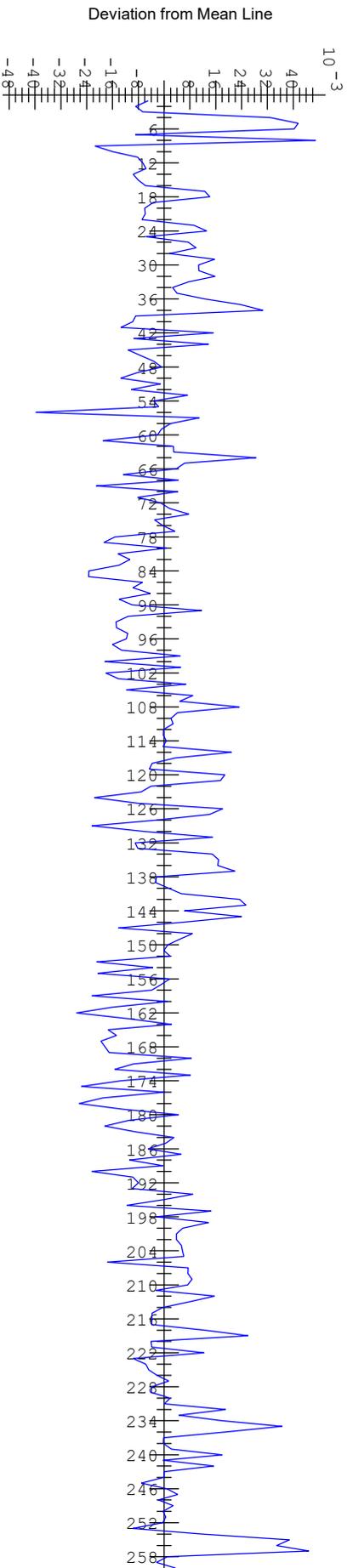
Dimensions in MM, Angles in Milliradians

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	9.000	US Full :	9.0001	DS Full :	9.0006
Nom. Taper :	0.000	US Wall Half :	4.5015	DS Wall Half :	4.5015
		US Aisle Half :	4.5004	DS Aisle Half :	4.5005

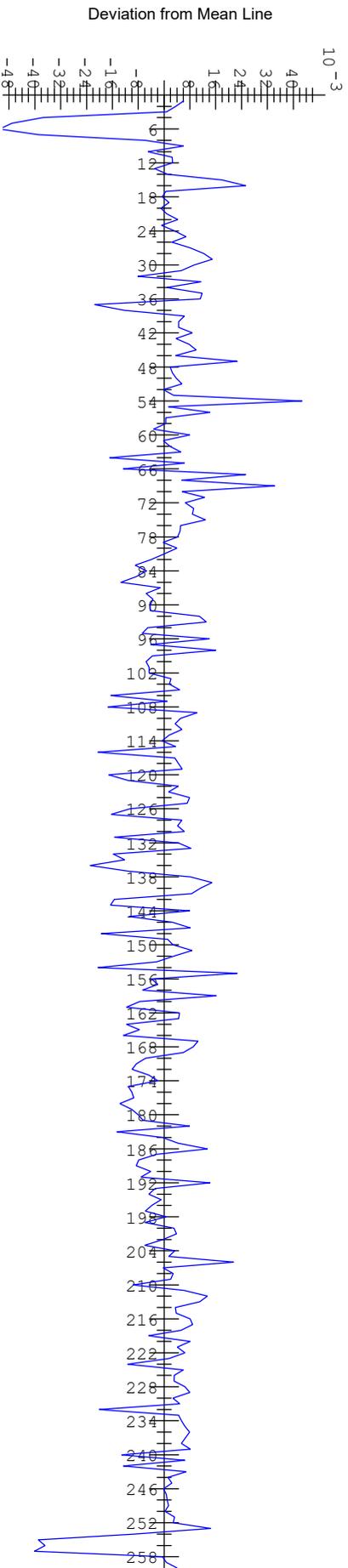
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Data Set	: 0002
Run	: FINAL
Cam Pos.	: B



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 :	9.000	US Full :	9.0001	DS Full :	9.0006
Nom. Taper :	0.000	US Wall Half :	4.5015	DS Wall Half :	4.5015
		US Aisle Half :	4.5004	DS Aisle Half :	4.5005

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