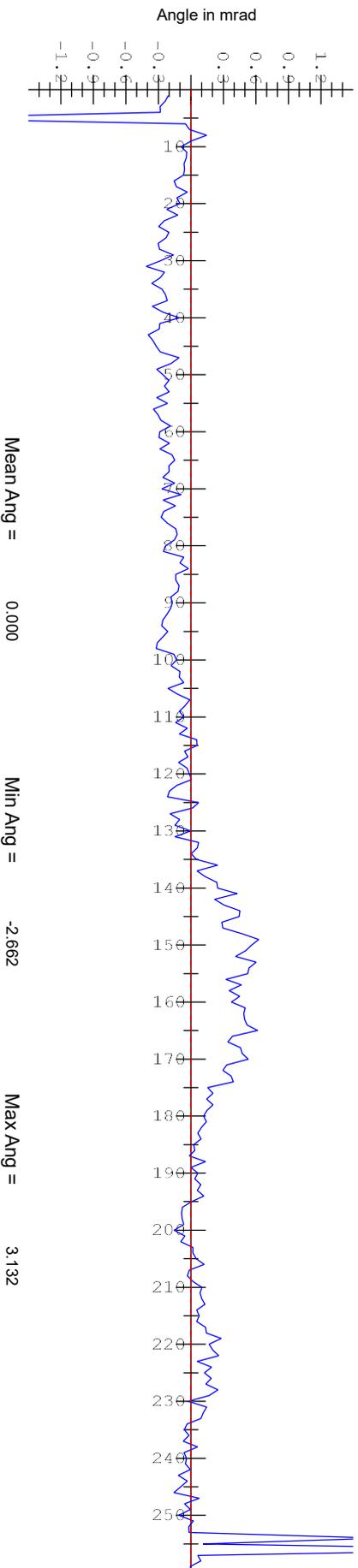


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

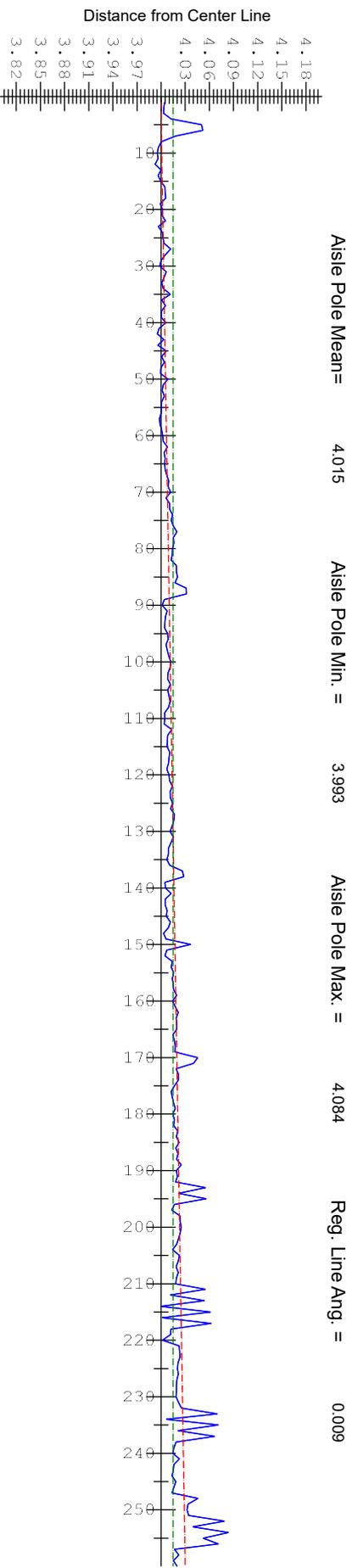


**NATIONAL ACCELERATOR LABORATORY
METROLOGY**

HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9999	DS Full :	7.9997
Nom. Taper :	0.000	US Wall Half :	4.0022	DS Wall Half :	4.0007
		US Aisle Half :	4.0021	DS Aisle Half :	4.0025

S/N	: HXU 031
Date	: 05-MAR-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

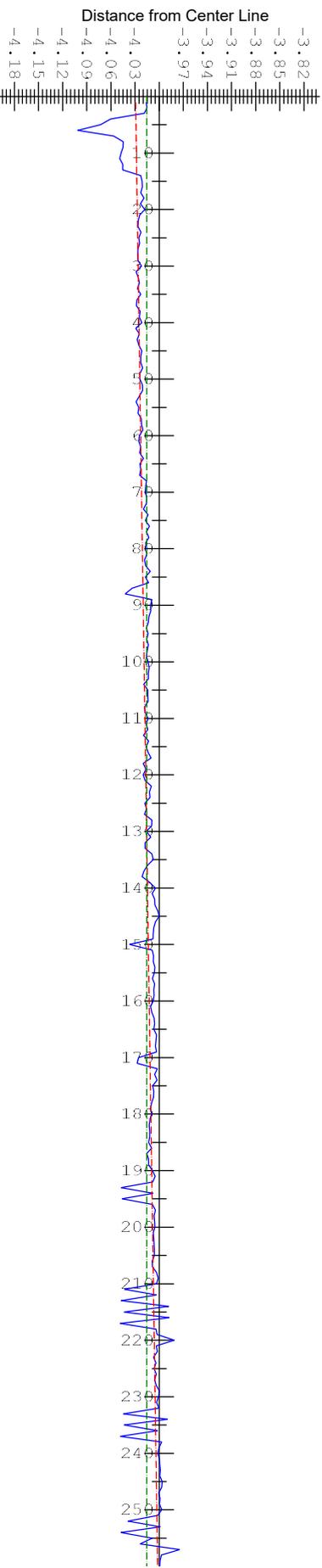


Pole Tip Num. ----->

Aisle Pole Tips at Nom. Beam Height

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

Minimum Clearance Gap = 7.949



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

SLAC
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METROLOGY

HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	8.000	US Full :	7.9999	DS Full :	7.9997
Nom. Taper :	0.000	US Wall Half :	4.0022	DS Wall Half :	4.0007
		US Aisle Half :	4.0021	DS Aisle Half :	4.0025

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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)	4.000	0.000	8.750	
US Wall Pole Tip(1)	-4.029	0.000	8.750	
US Sym. Pt.	-0.015			
US Gap				8.029
DS Aisle Pole Tip(260)	4.030	0.000	3375.750	
DS Wall Pole Tip(260)	-4.002	0.000	3375.750	
DS Sym. Pt.	0.014			
DS Gap				8.032
Taper				0.003

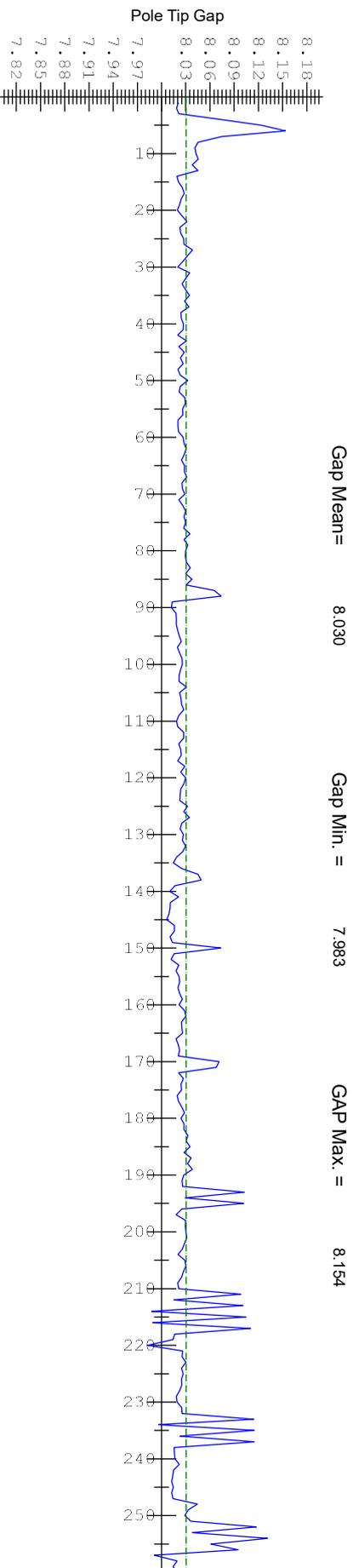
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	8.000	US Full :	7.9999	DS Full :	7.9997
US Wall Half :	4.0022	DS Wall Half :	4.0007		
US Aisle Half :	4.0021	DS Aisle Half :	4.0025		
Nom. Taper :	0.000				

S/N	: HXU_031
Date	: 05-MAR-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

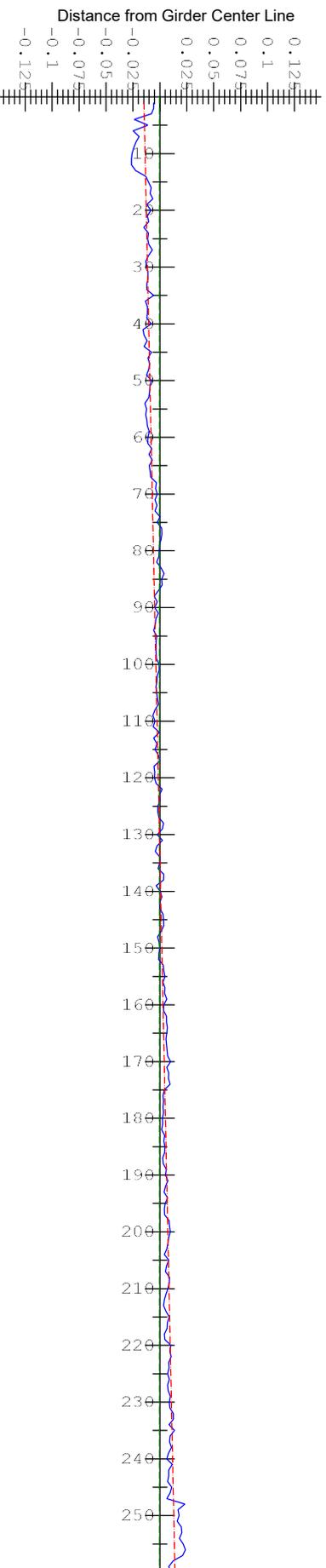


Pole Tip Gap at Nom. Beam Height

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

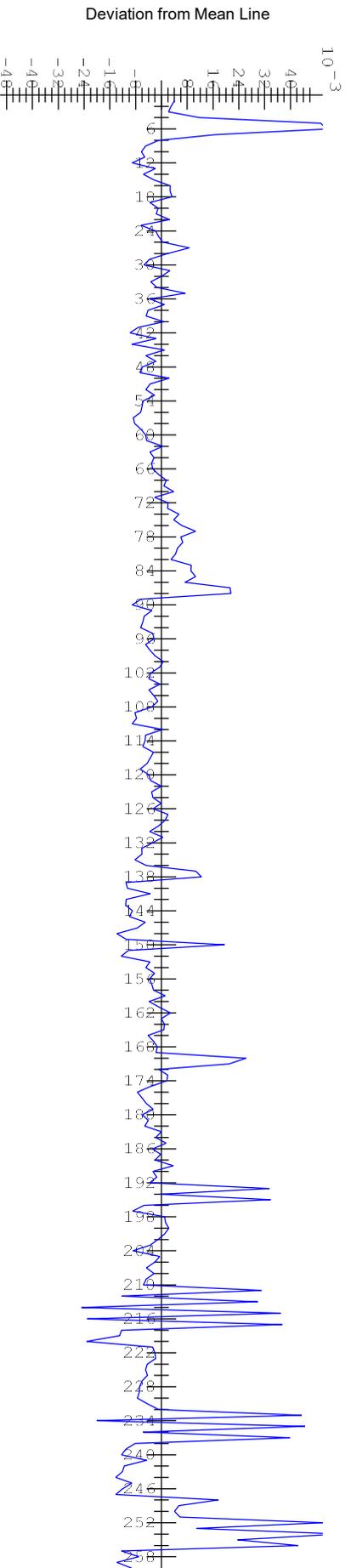
Dimensions in MM, Angles in Milliradians

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Gap and Symmetry Point Location

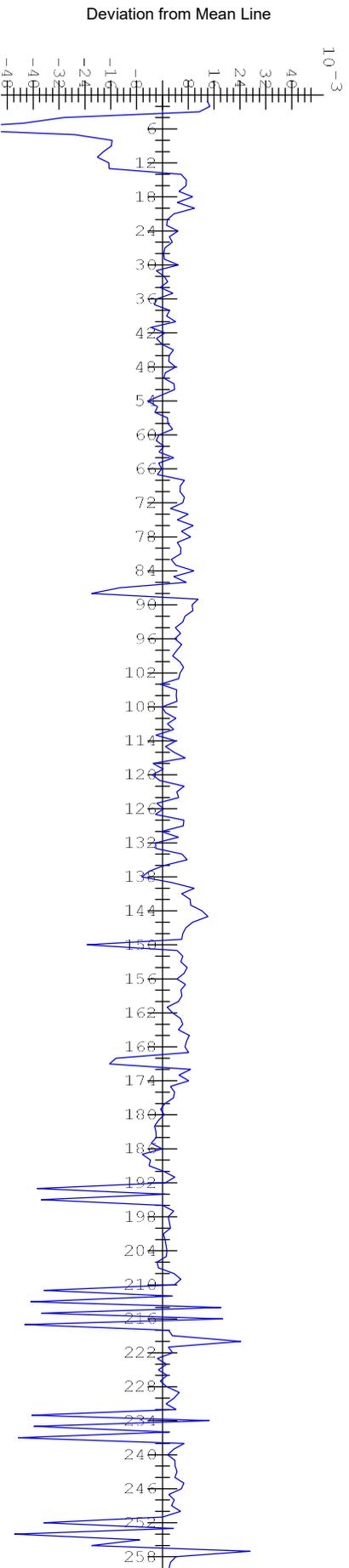
Nominal Gap :	8.000	US Full :	7.9999	DS Full :	7.9997
Nom. Taper :	0.000	US Wall Half :	4.0022	DS Wall Half :	4.0007
		US Aisle Half :	4.0021	DS Aisle Half :	4.0025

S/N	: HXU 031
Date	: 05-MAR-2020
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 :	7.9999	DS Full :	7.9997
Nom. Taper :	0.000	US Wall Half :	4.0022	DS Wall Half :	4.0007
		US Aisle Half :	4.0021	DS Aisle Half :	4.0025

S/N	: HXU 031
Date	: 05-MAR-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B