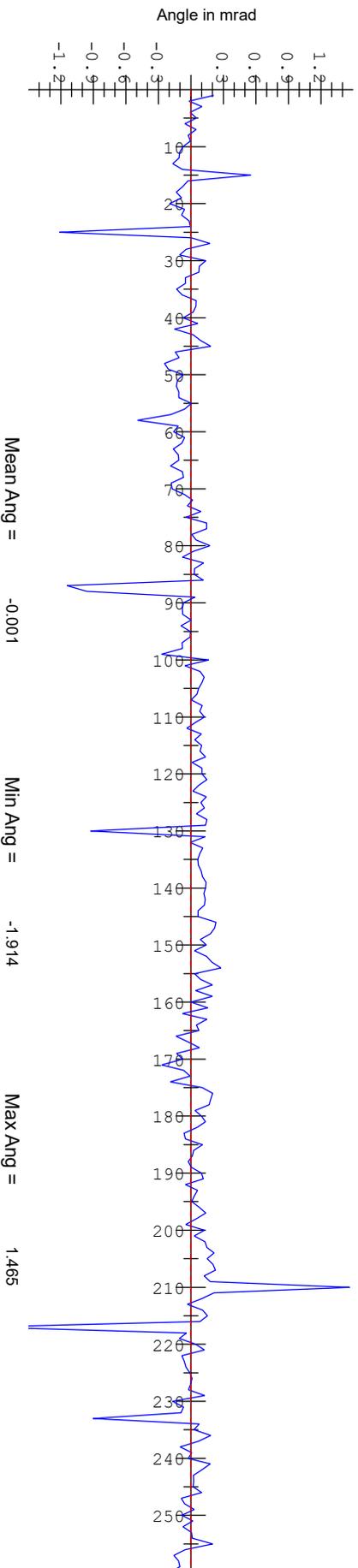


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians



SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Angles

Nominal Gap : 20.000 **US Full :** 20.0001 **DS Full :** 20.0001

Nom. Taper : 0.000 **US Wall Half :** 9.9927 **DS Wall Half :** 9.9933

US Aisle Half : 9.9934 **DS Aisle Half :** 9.9930

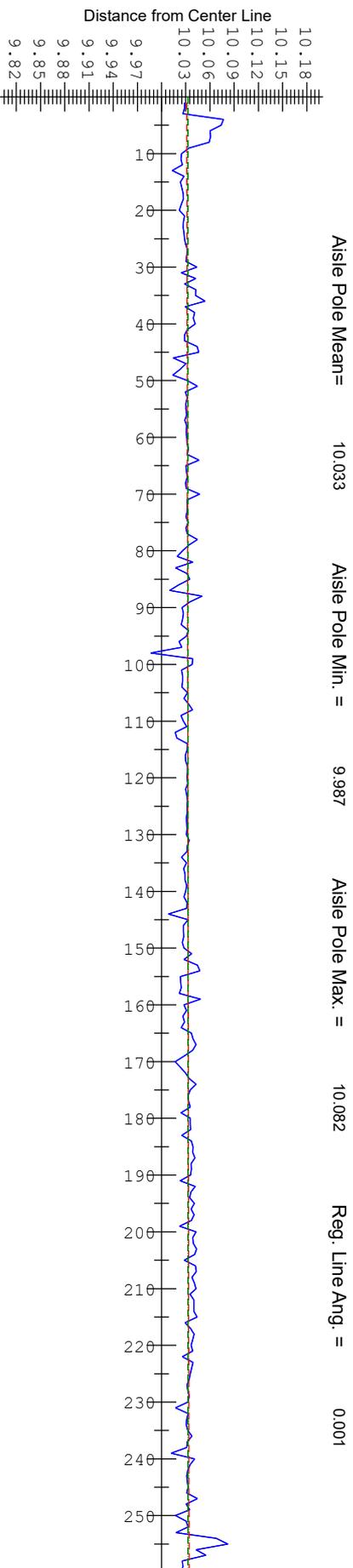
S/N : HXU_001

Date : 06-AUG-2020

Data Set : 0002

Run : FINAL

Cam Pos. : B



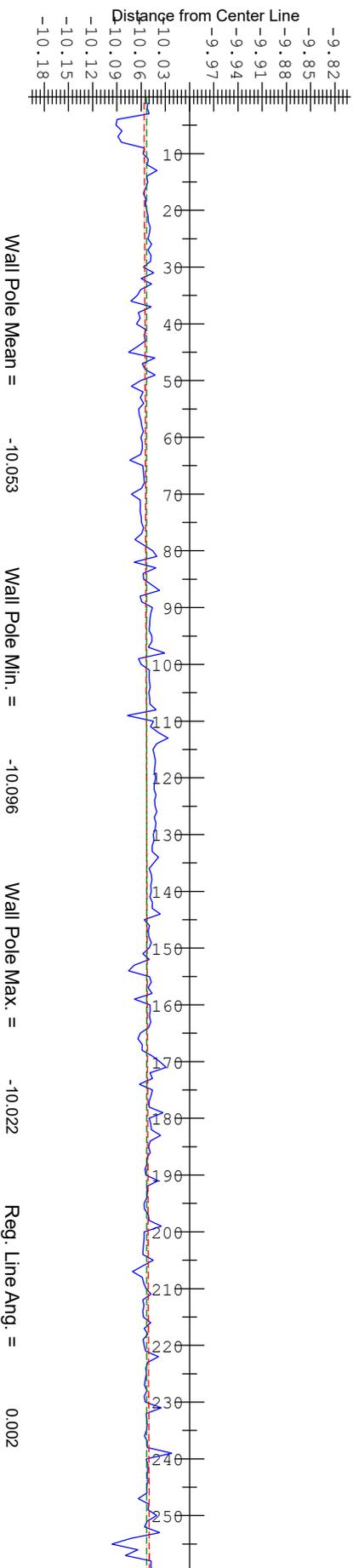
Aisle Pole Tips at Nom. Beam Height

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

Pole Tip Num. ----->

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 19.973



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 :	20.000	US Full :	20.0001	DS Full :	20.0001
Nom. Taper :	0.000	US Wall Half :	9.9927	DS Wall Half :	9.9933
		US Aisle Half :	9.9934	DS Aisle Half :	9.9930

S/N	: HXU_001
Date	: 06-AUG-2020
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)	10.031	0.000	8.750	
US Wall Pole Tip(1)	-10.056	0.000	8.750	
US Sym. Pt.	-0.013			
US Gap				20.087
DS Aisle Pole Tip(260)	10.034	0.000	3375.750	
DS Wall Pole Tip(260)	-10.050	0.000	3375.750	
DS Sym. Pt.	-0.008			
DS Gap				20.084
Taper				-0.003

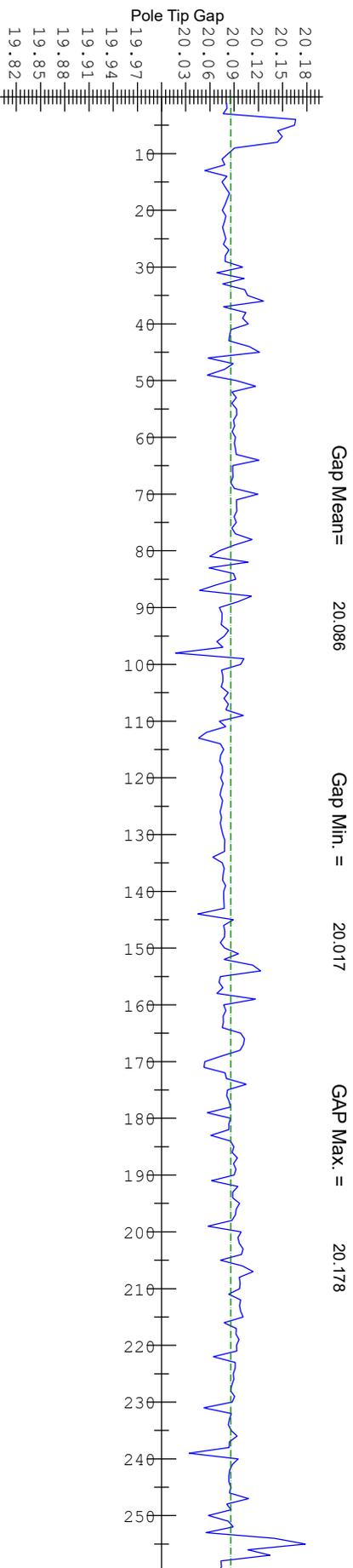
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	20.000	US Full :	20.0001	DS Full :	20.0001
US Wall Half :	9.9927	DS Wall Half :	9.9933		
US Aisle Half :	9.9934	DS Aisle Half :	9.9930		
Nom. Taper :	0.000				

S/N	: HXU_001
Date	: 06-AUG-2020
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B

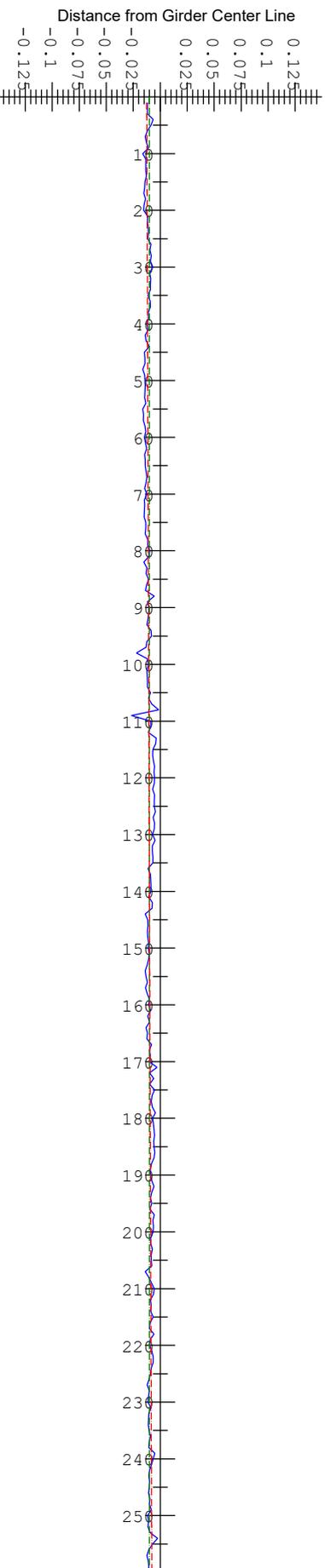


Pole Tip Gap at Nom. Beam Height

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

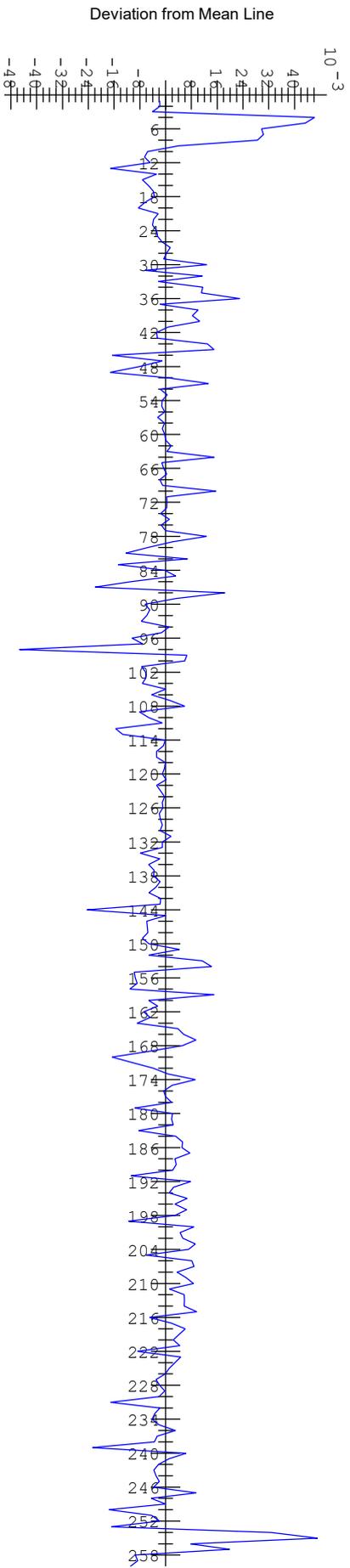
SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap : 20.000 US Wall Half : 9.9927 DS Wall Half : 9.9933

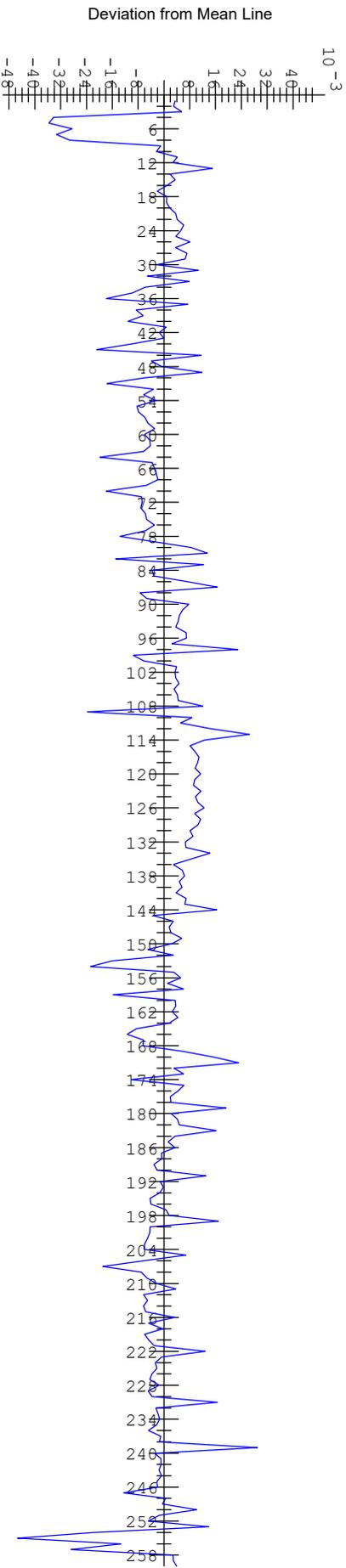
Nom. Taper : 0.000 US Aisle Half : 9.9934 DS Aisle Half : 9.9930

S/N : HXU_001
 Date : 06-AUG-2020
 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 :	20.000	US Full :	20.0001	DS Full :	20.0001
Nom. Taper :	0.000	US Wall Half :	9.9927	DS Wall Half :	9.9933
		US Aisle Half :	9.9934	DS Aisle Half :	9.9930

S/N	: HXU_001
Date	: 06-AUG-2020
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B