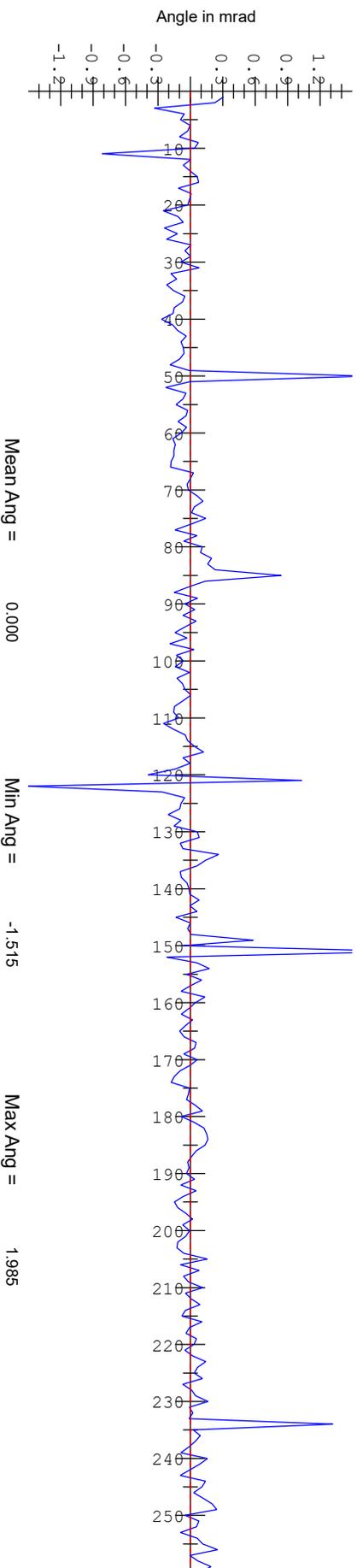


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

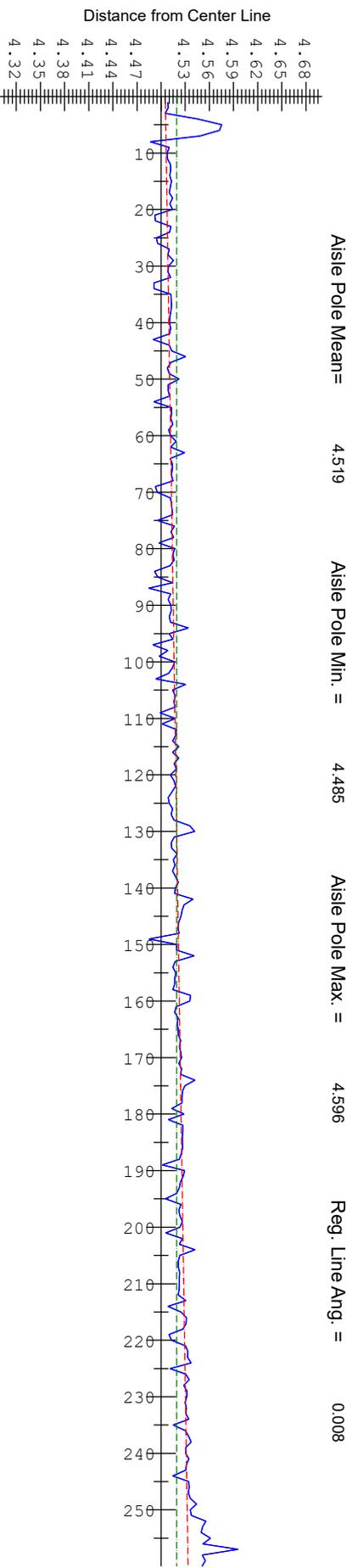


SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Angles

Nominal Gap :	9.000	US Full :	9.0000	DS Full :	8.9995
Nom. Taper :	0.000	US Wall Half :	4.5009	DS Wall Half :	4.4989
		US Aisle Half :	4.4999	DS Aisle Half :	4.5007

S/N	: HXU 014
Date	: 25-AUG-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



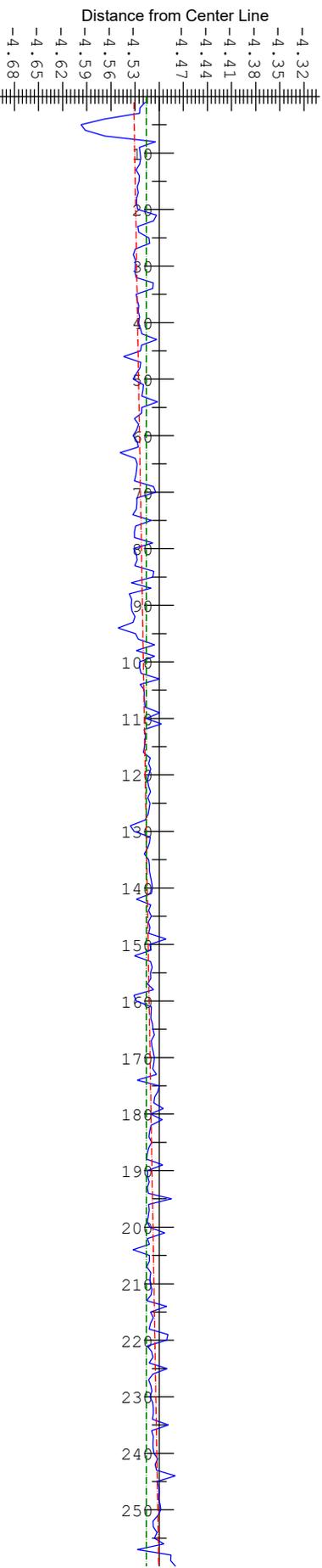
Pole Tip Num. ----->

Aisle Pole Tips at Nom. Beam Height

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

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 8.959



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

	HGVPU - Pole Tip Location from Girder Centerline				
	Nominal Gap :	9.000	US Wall Half :	4.5009	
Nom. Taper :	0.000	US Aisle Half :	4.4999	DS Wall Half :	4.4989
		DS Aisle Half :	4.5007		
S/N	: HXU 014	Date	: 25-AUG-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)	4.505	0.000	8.750	
US Wall Pole Tip(1)	-4.531	0.000	8.750	
US Sym. Pt.	-0.013			
US Gap				9.037
DS Aisle Pole Tip(260)	4.533	0.000	3375.750	
DS Wall Pole Tip(260)	-4.501	0.000	3375.750	
DS Sym. Pt.	0.016			
DS Gap				9.034
Taper				-0.003

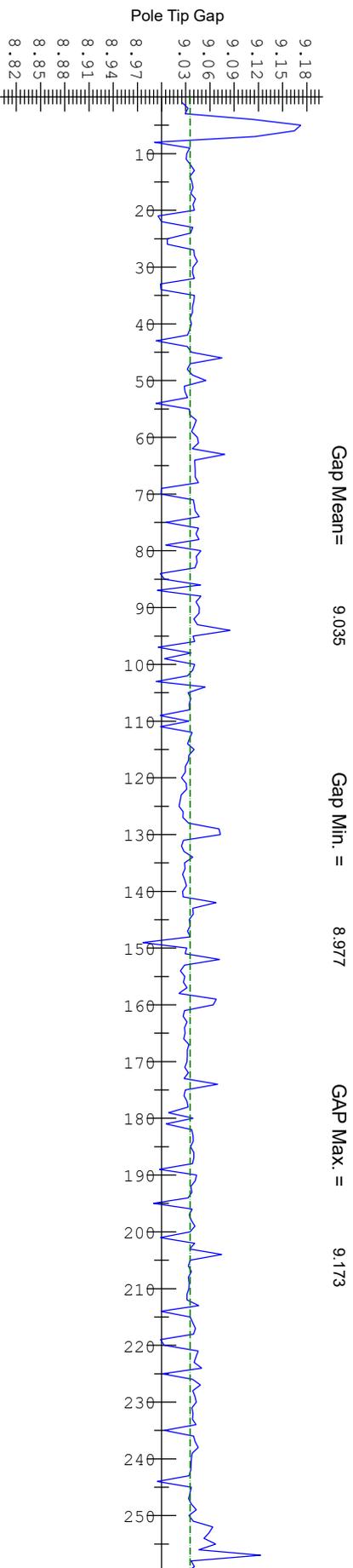
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

Nominal Gap :	9.000	US Full :	9.0000	DS Full :	8.9995
Nom. Taper :	0.000	US Wall Half :	4.5009	DS Wall Half :	4.4989
		US Aisle Half :	4.4999	DS Aisle Half :	4.5007

S/N	: HXU_014
Date	: 25-AUG-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

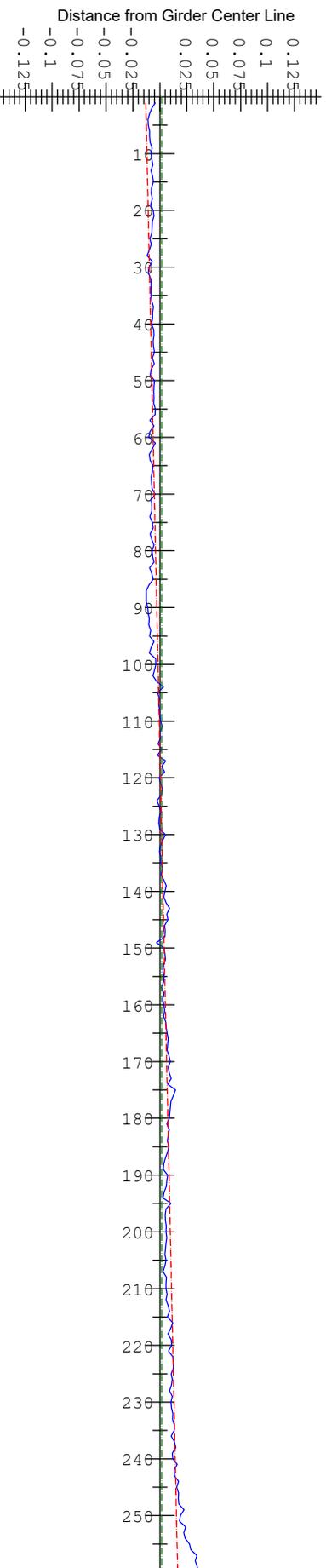


Pole Tip Gap at Nom. Beam Height

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

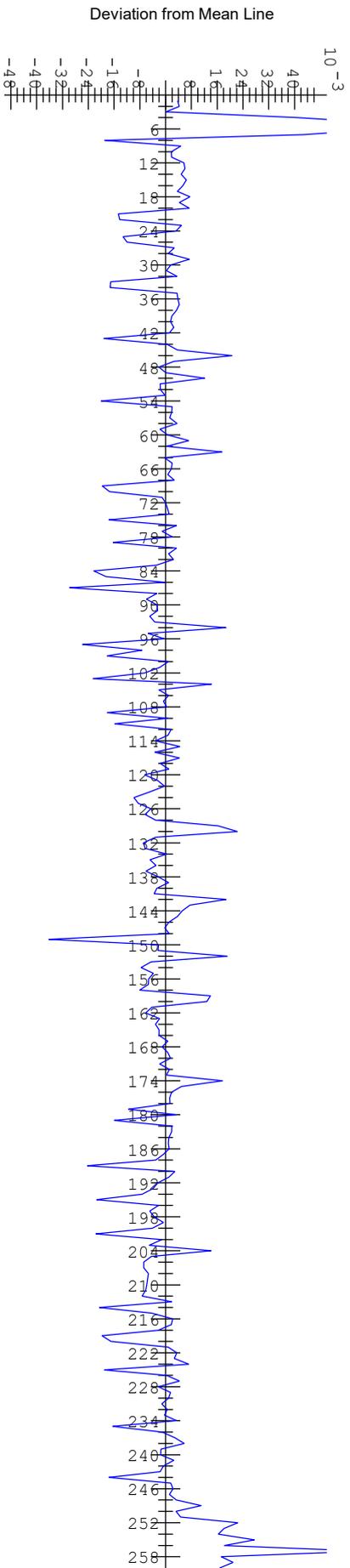
Dimensions in MM, Angles in Milliradians

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Gap and Symmetry Point Location

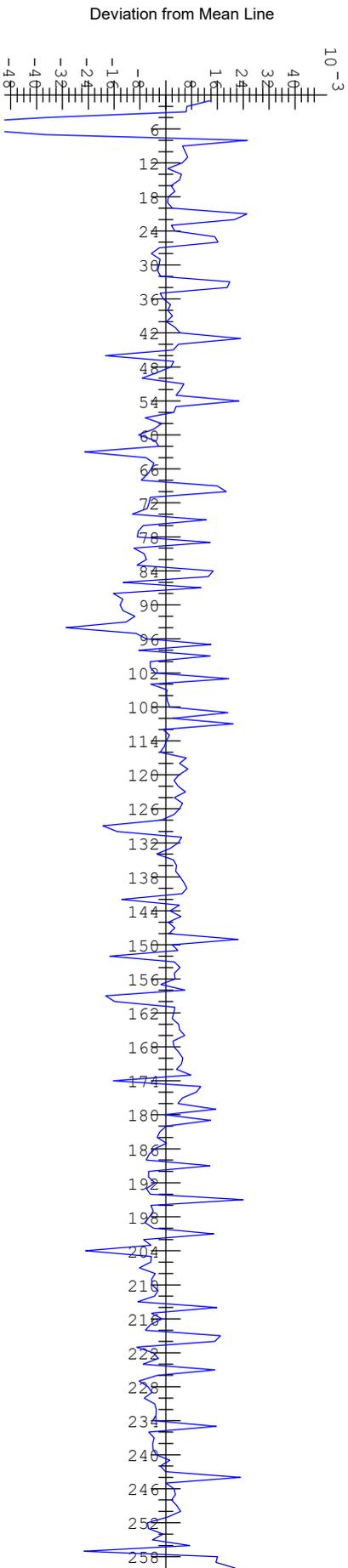
Nominal Gap :	9.000	US Full :	9.0000	DS Full :	8.9995
Nom. Taper :	0.000	US Wall Half :	4.5009	DS Wall Half :	4.4989
		US Aisle Half :	4.4999	DS Aisle Half :	4.5007

S/N	: HXU_014
Date	: 25-AUG-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 :	9.000	US Full :	9.0000	DS Full :	8.9995
Nom. Taper :	0.000	US Wall Half :	4.5009	DS Wall Half :	4.4989
		US Aisle Half :	4.4999	DS Aisle Half :	4.5007

S/N	: HXU_014
Date	: 25-AUG-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B