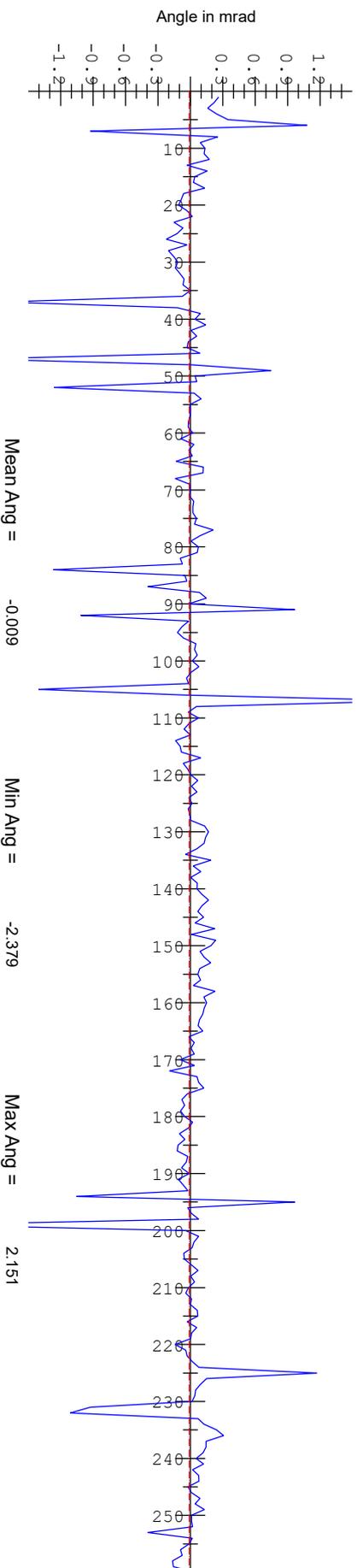


### Included Angle Between Pole Tips

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 :** 20.0003    **DS Full :** 20.0003

**Nom. Taper :** 0.000    **US Wall Half :** 9.9913    **DS Wall Half :** 9.9908

**US Aisle Half :** 9.9932    **DS Aisle Half :** 9.9880

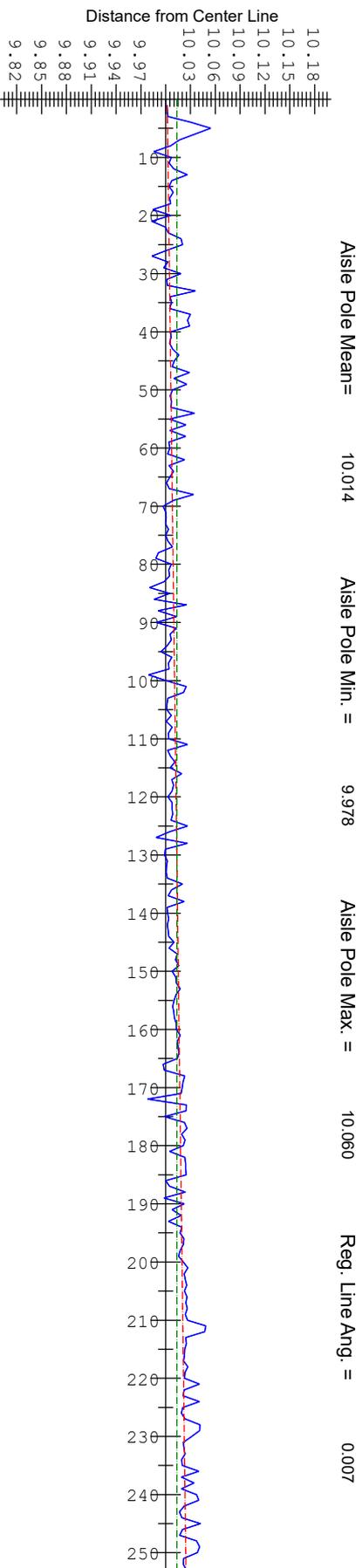
**S/N :** HXU 015

**Date :** 05-NOV-2020

**Data Set :** 0001

**Run :** FINAL

**Cam Pos. :** B



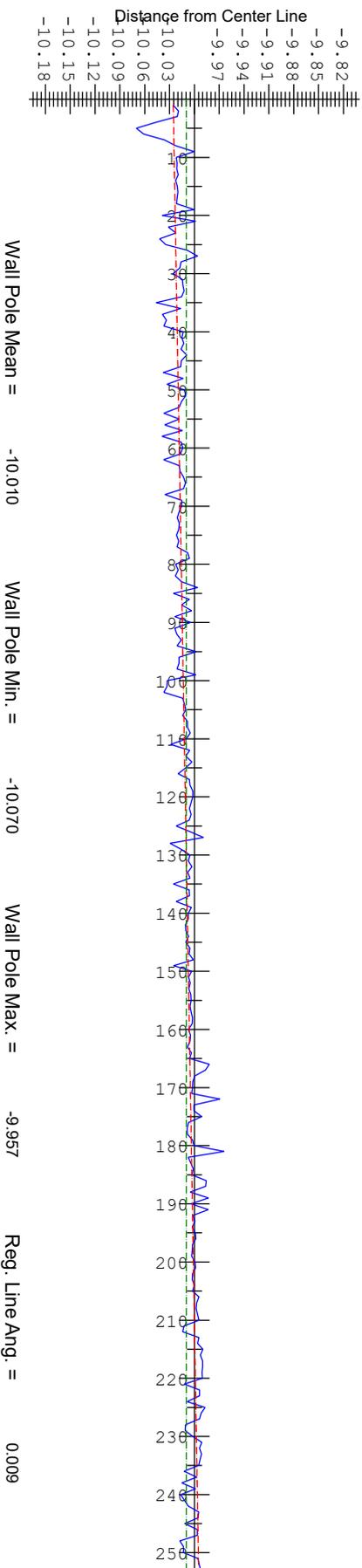
**Aisle Pole Tips at Nom. Beam Height**

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 = 19.913



**Girder centerline in reference to Pointed Magnets**

Dimensions in MM, Angles in Milliradians



**HGVPU - Pole Tip Location from Girder Centerline**

Nominal Gap :	20.000	US Full :	20.0003	DS Full :	20.0003
Nom. Taper :	0.000	US Wall Half :	9.9913	DS Wall Half :	9.9908
		US Aisle Half :	9.9932	DS Aisle Half :	9.9880

S/N	: HXU 015
Date	: 05-NOV-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)	10.002	0.000	8.750	
US Wall Pole Tip(1)	-10.025	0.000	8.750	
US Sym. Pt.	-0.012			
US Gap				20.027
DS Aisle Pole Tip(260)	10.025	0.000	3375.750	
DS Wall Pole Tip(260)	-9.994	0.000	3375.750	
DS Sym. Pt.	0.016			
DS Gap				20.019
Taper				-0.008

Dimensions in MM

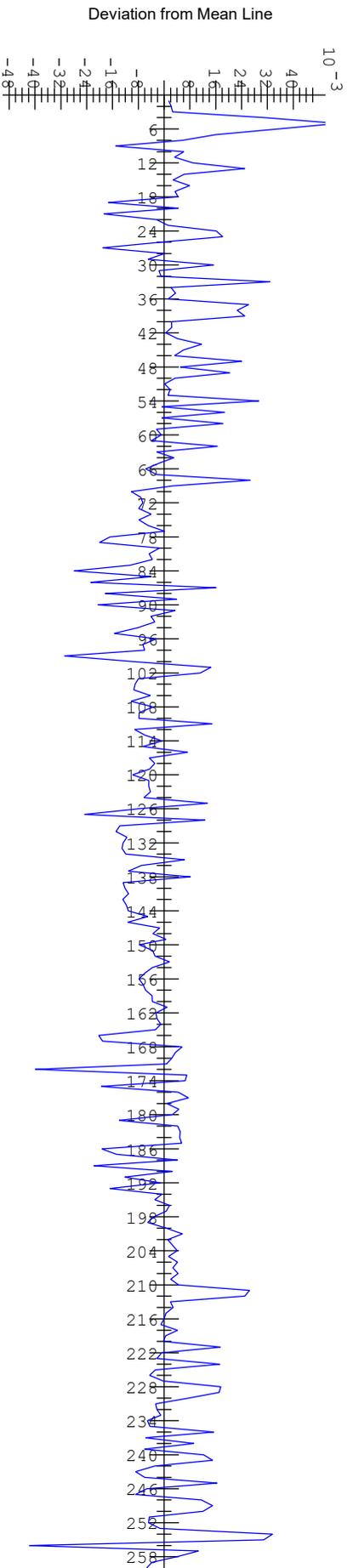


**HGVPU - Gap Calc. from Regression Line End Points**

Nominal Gap :	20.000	US Full :	20.0003	DS Full :	20.0003
Norm. Taper :	0.000	US Wall Half :	9.9913	DS Wall Half :	9.9908
		US Aisle Half :	9.9932	DS Aisle Half :	9.9880

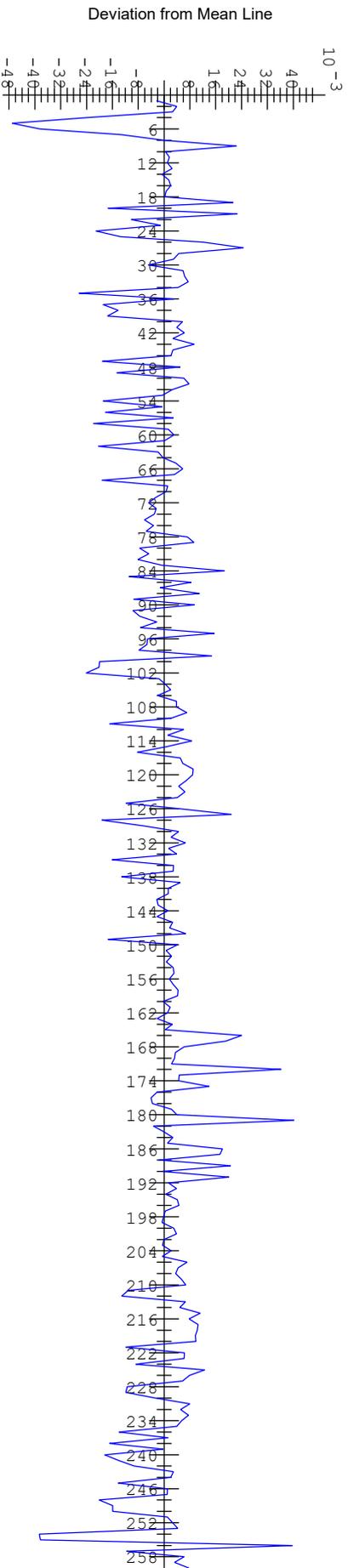
S/N	: HXU 015
Date	: 05-NOV-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B





### 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 :	20.000	US Full :	20.0003	DS Full :	20.0003
Nom. Taper :	0.000	US Wall Half :	9.9913	DS Wall Half :	9.9908
		US Aisle Half :	9.9932	DS Aisle Half :	9.9880

S/N	: HXU 015
Date	: 05-NOV-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B