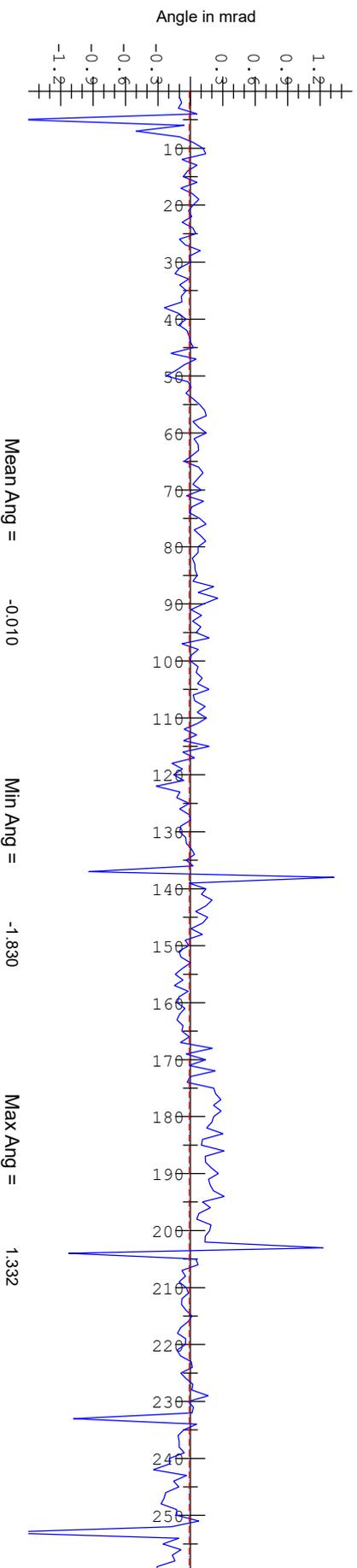


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



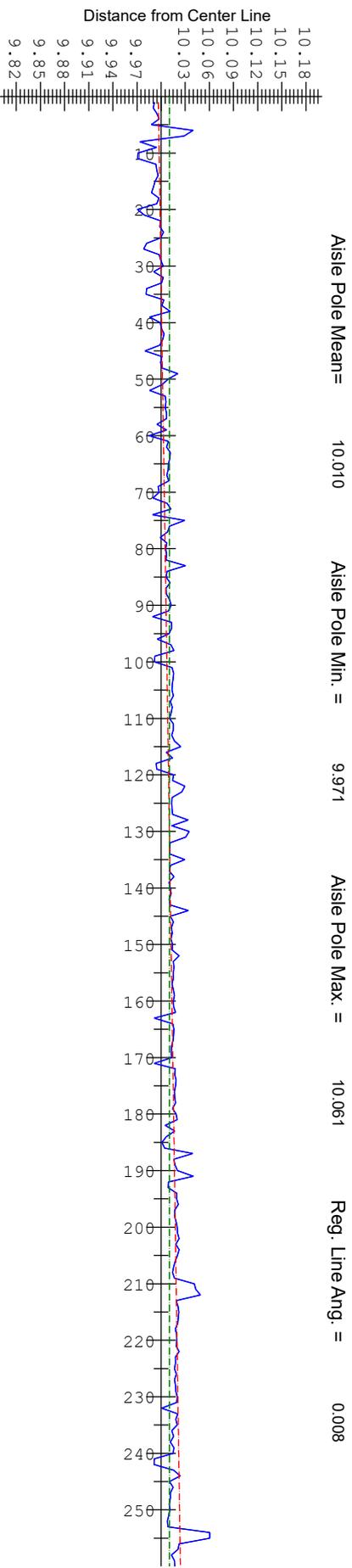
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Angles

<b>Nominal Gap :</b>	<b>20.000</b>	<b>US Full :</b>	<b>20.0002</b>	<b>DS Full :</b>	<b>20.0005</b>
<b>Nom. Taper :</b>	<b>0.000</b>	<b>US Wall Half :</b>	<b>9.9957</b>	<b>DS Wall Half :</b>	<b>9.9973</b>
		<b>US Aisle Half :</b>	<b>9.9957</b>	<b>DS Aisle Half :</b>	<b>9.9978</b>

<b>S/N</b>	<b>: HXU 017</b>
<b>Date</b>	<b>: 03-NOV-2022</b>
<b>Data Set</b>	<b>: 0002</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>

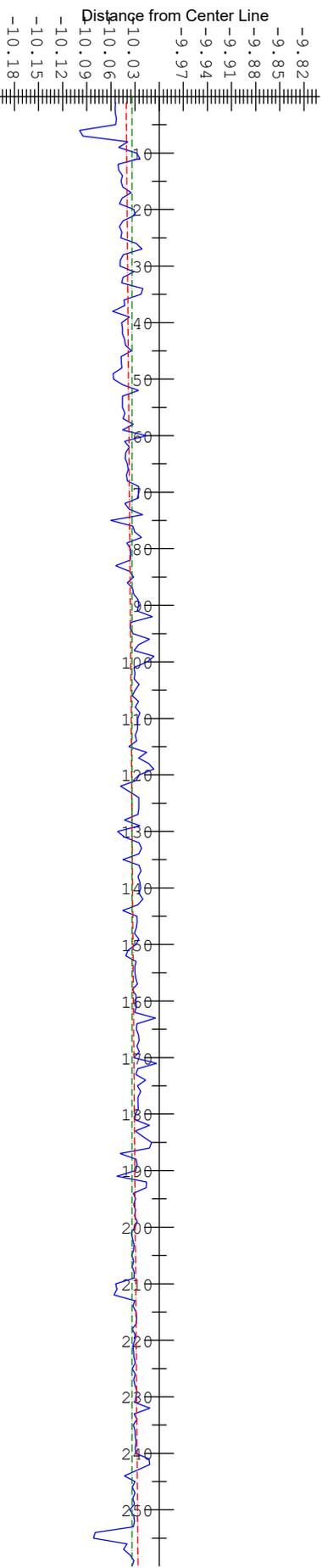


Pole Tip Num. ----->

### Aisle Pole Tips at Nom. Beam Height

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

Minimum Clearance Gap = 19.941



### 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 : 20.0002      DS Full : 20.0005

Nom. Taper : 0.000      US Wall Half : 9.9957      DS Wall Half : 9.9973

US Aisle Half : 9.9957      DS Aisle Half : 9.9978

S/N : HXU 017  
 Date : 03-NOV-2022  
 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)	9.997	0.000	8.750	
US Wall Pole Tip(1)	-10.041	0.000	8.750	
US Sym. Pt.	-0.022			
US Gap				20.038
DS Aisle Pole Tip(260)	10.024	0.000	3375.750	
DS Wall Pole Tip(260)	-10.026	0.000	3375.750	
DS Sym. Pt.	-0.001			
DS Gap				20.050
Taper				0.013

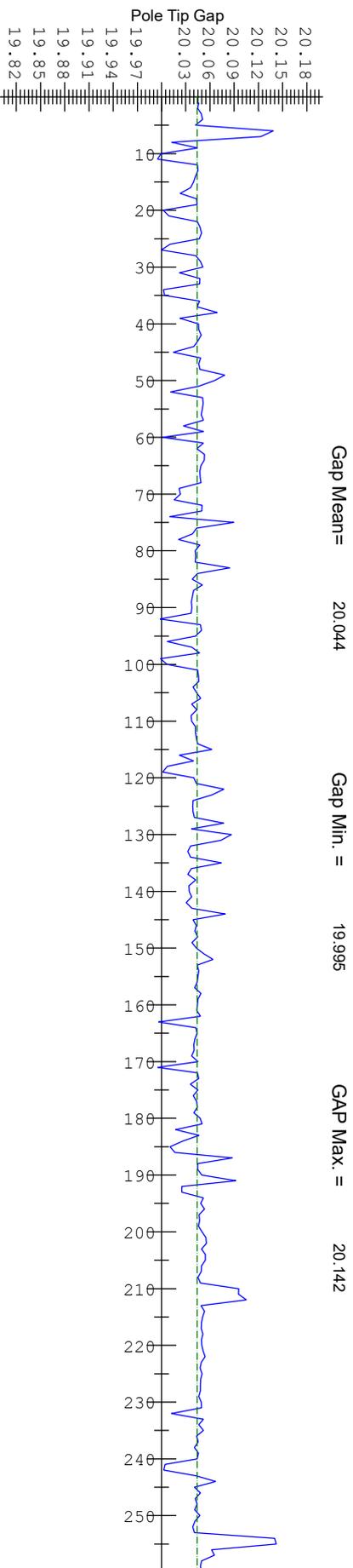
Dimensions in MM



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

Nominal Gap :	20.000	US Full :	20.0002	DS Full :	20.0005
Norm. Taper :	0.000	US Wall Half :	9.9957	DS Wall Half :	9.9973
		US Aisle Half :	9.9957	DS Aisle Half :	9.9978

S/N	: HXU_017
Date	: 03-NOV-2022
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B

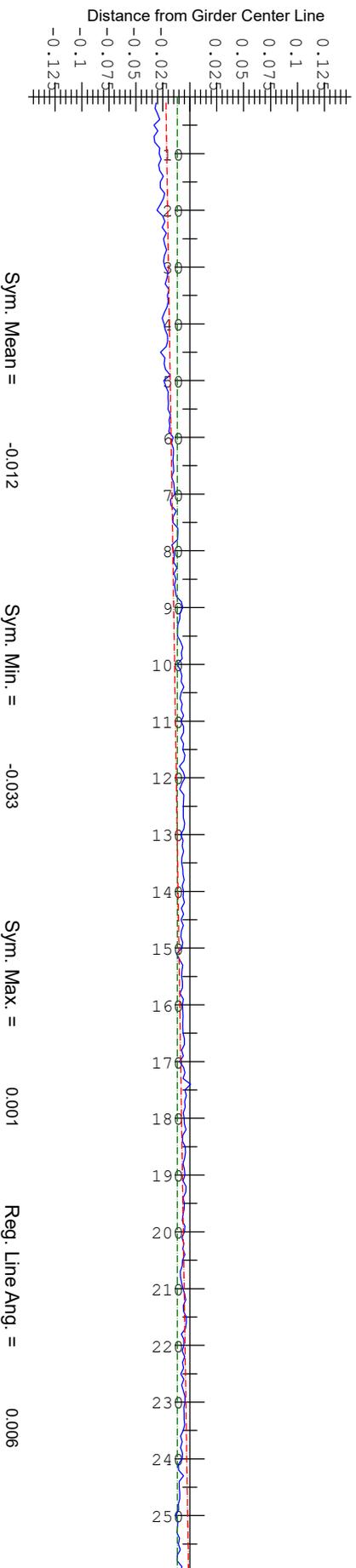


### Pole Tip Gap at Nom. Beam Height

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

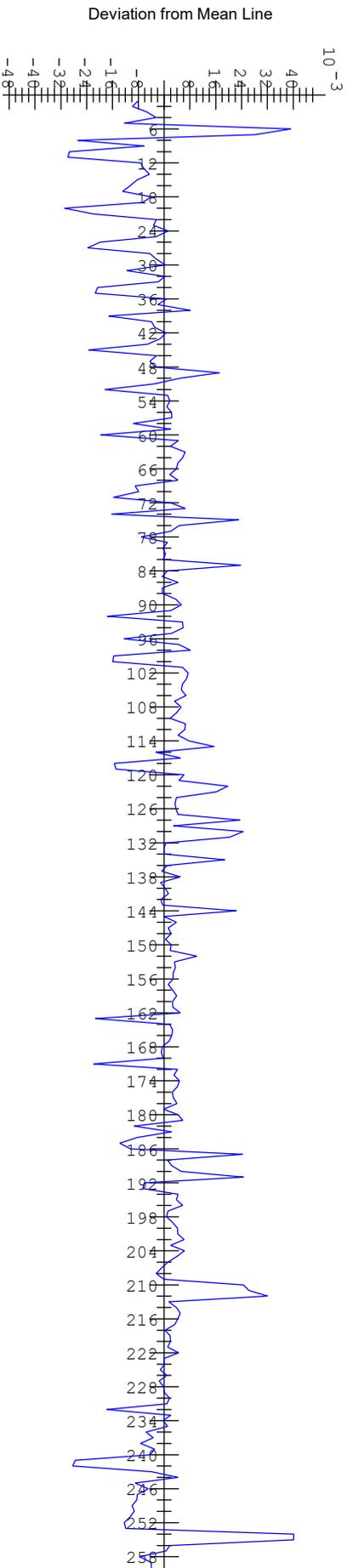
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	20.000	US Full :	20.0002	DS Full :	20.0005
Nom. Taper :	0.000	US Wall Half :	9.9957	DS Wall Half :	9.9973
		US Aisle Half :	9.9957	DS Aisle Half :	9.9978

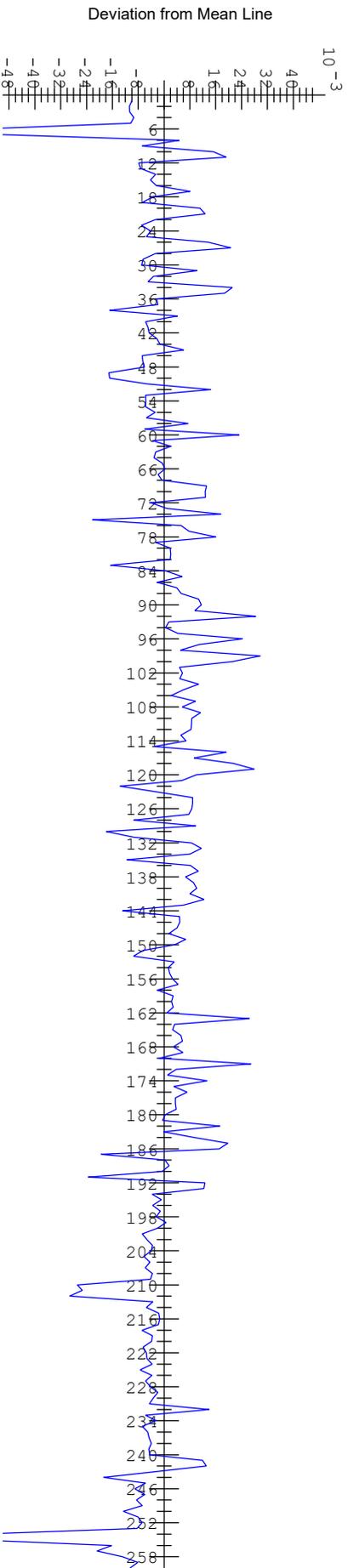
S/N	: HXU_017
Date	: 03-NOV-2022
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B



**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 :	20.000	US Full :	20.0002	DS Full :	20.0005
Nom. Taper :	0.000	US Wall Half :	9.9957	DS Wall Half :	9.9973
		US Aisle Half :	9.9957	DS Aisle Half :	9.9978

S/N	: HXU_017
Date	: 03-NOV-2022
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B