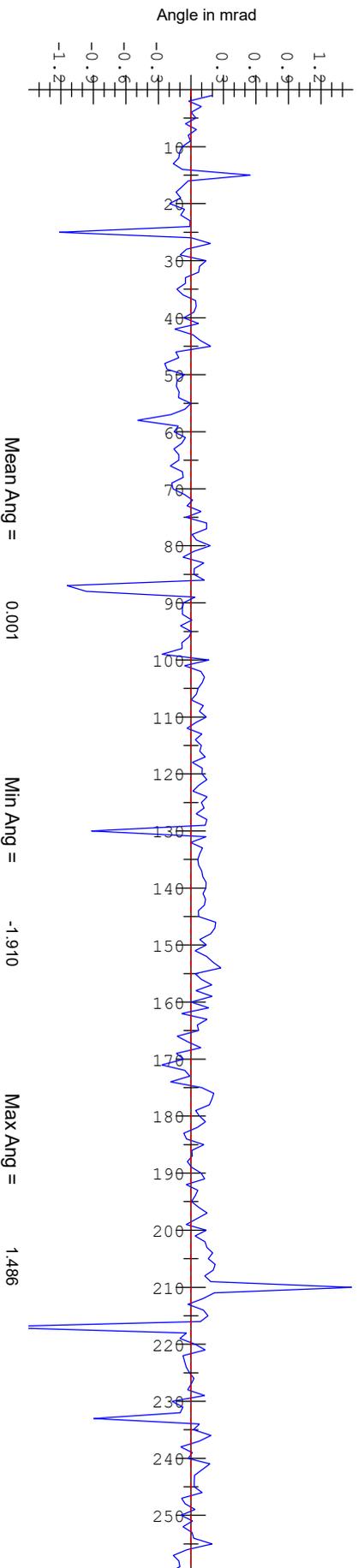


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



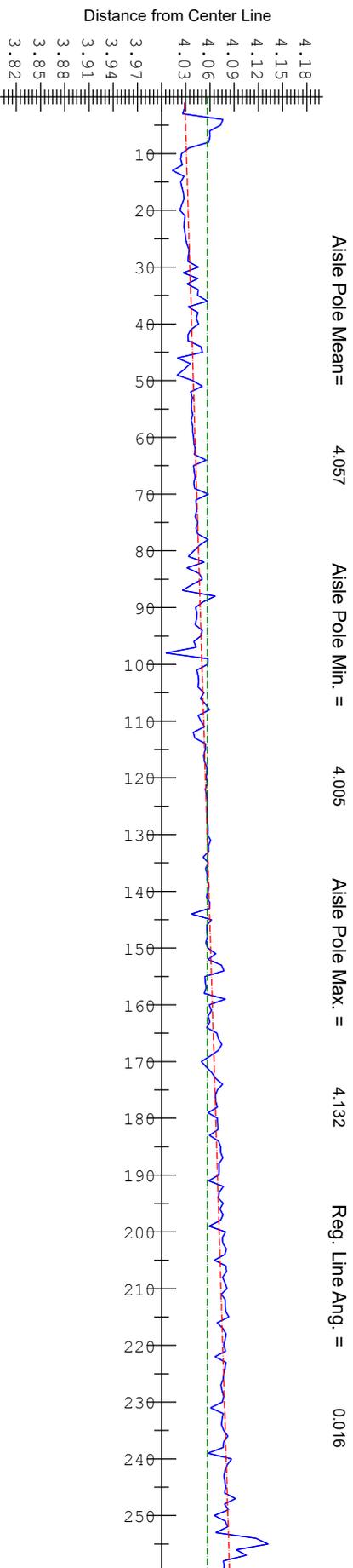
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Angles

<b>Nominal Gap :</b>	<b>8.000</b>	<b>US Full :</b>	<b>8.0000</b>	<b>DS Full :</b>	<b>8.1003</b>
<b>Nom. Taper :</b>	<b>0.100</b>	<b>US Wall Half :</b>	<b>4.0038</b>	<b>DS Wall Half :</b>	<b>4.0520</b>
		<b>US Aisle Half :</b>	<b>4.0022</b>	<b>DS Aisle Half :</b>	<b>4.0519</b>

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



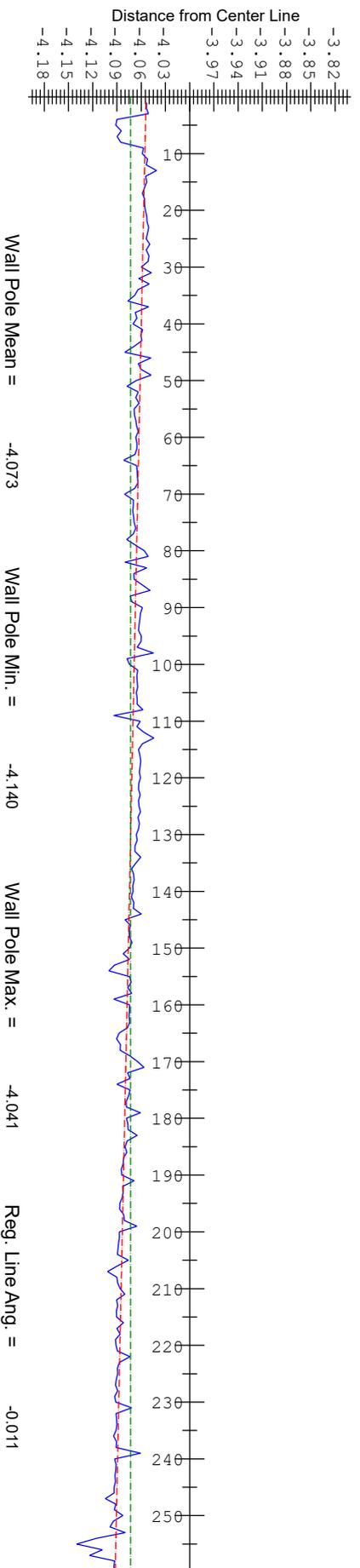
**Aisle Pole Tips at Nom. Beam Height**

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 = 8.011



**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 :	8.000	US Full :	8.0000	DS Full :	8.1003
Nom. Taper :	0.100	US Wall Half :	4.0038	DS Wall Half :	4.0520
		US Aisle Half :	4.0022	DS Aisle Half :	4.0519

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)	4.029	0.000	8.750	
US Wall Pole Tip(1)	-4.054	0.000	8.750	
US Sym. Pt.	-0.013			
US Gap				8.083
DS Aisle Pole Tip(260)	4.084	0.000	3375.750	
DS Wall Pole Tip(260)	-4.092	0.000	3375.750	
DS Sym. Pt.	-0.004			
DS Gap				8.176
Taper				0.093

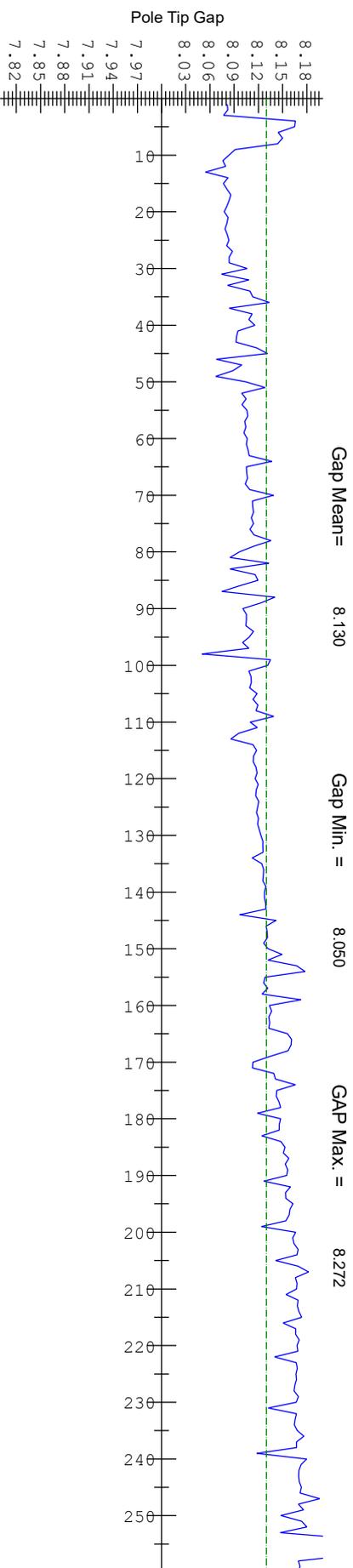
Dimensions in MM



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

Nominal Gap :	8.000	US Full :	8.0000	DS Full :	8.1003
US Wall Half :	4.0038	DS Wall Half :	4.0520		
US Aisle Half :	4.0022	DS Aisle Half :	4.0519		
Nom. Taper :	0.100				

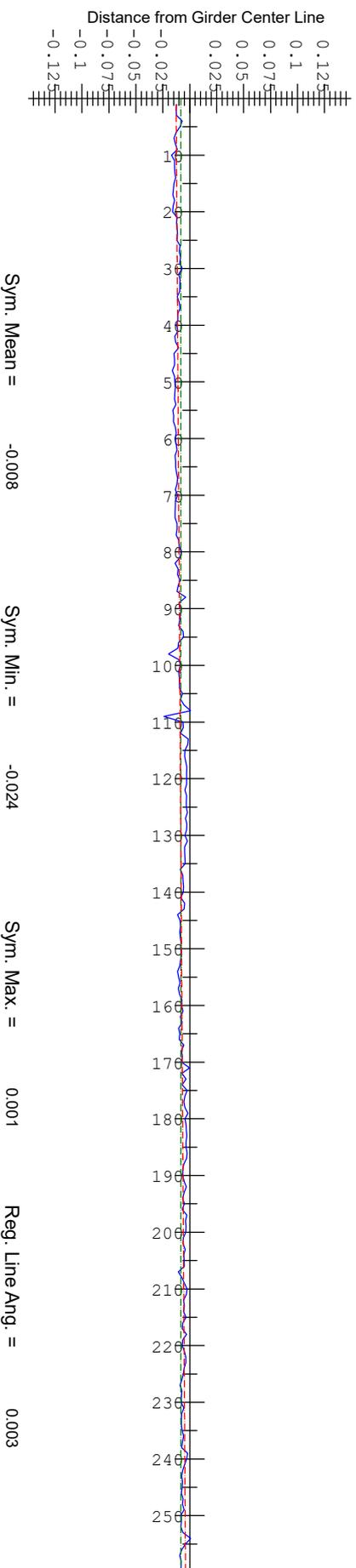
S/N	: HXU_001
Date	: 06-AUG-2020
Data Set	: 0002
Run	: FINAL
Cam Pos.	: B



### Pole Tip Gap at Nom. Beam Height

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

### Pole Tip Symmetry Point at Nom. Beam Height



### Girder centerline in reference to Pointed Magnets

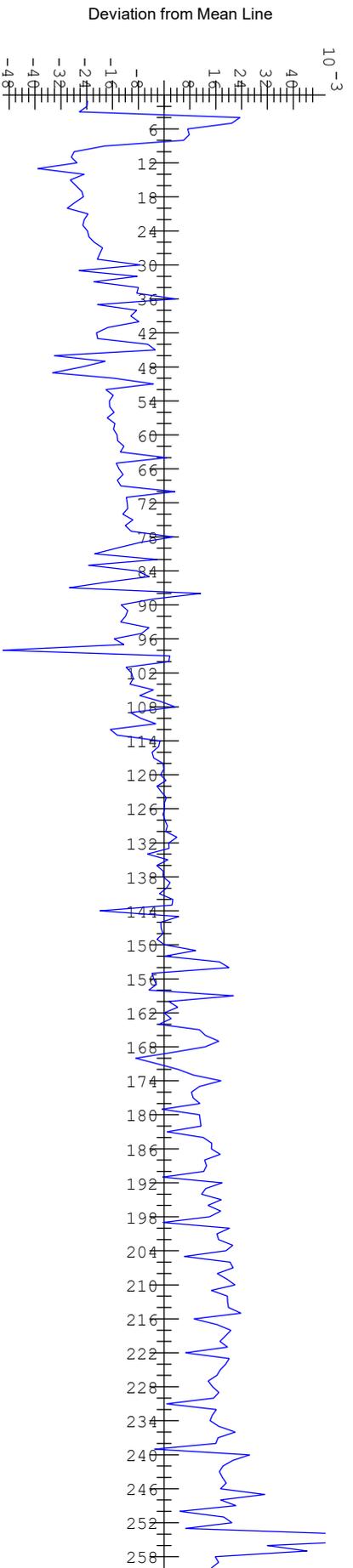
Dimensions in MM, Angles in Milliradians



### HGVPU - Pole Tip Gap and Symmetry Point Location

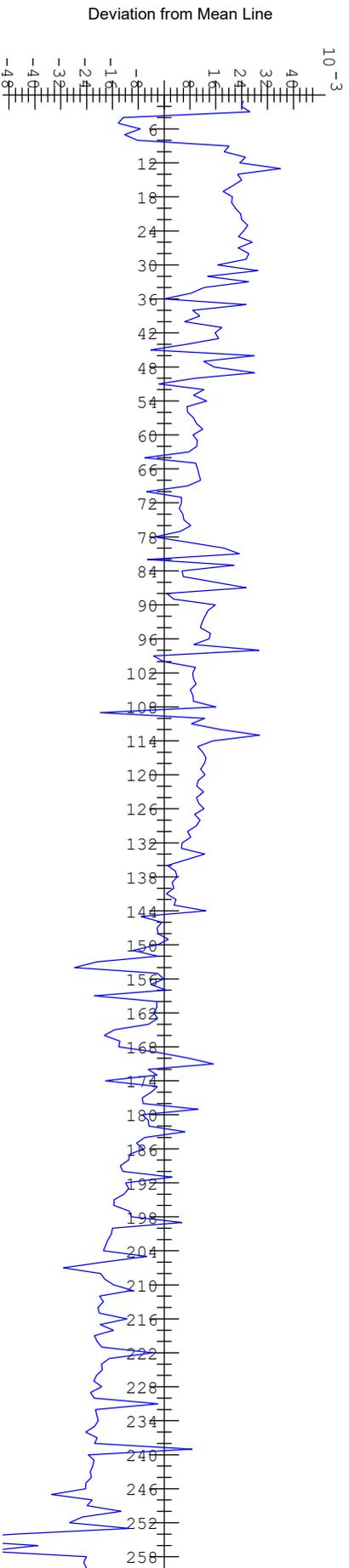
Nominal Gap :	8.000	US Full :	8.0000	DS Full :	8.1003
Nom. Taper :	0.100	US Wall Half :	4.0038	DS Wall Half :	4.0520
		US Aisle Half :	4.0022	DS Aisle Half :	4.0519

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 :	8.000	US Full :	8.0000	DS Full :	8.1003
Nom. Taper :	0.100	US Wall Half :	4.0038	DS Wall Half :	4.0520
		US Aisle Half :	4.0022	DS Aisle Half :	4.0519

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