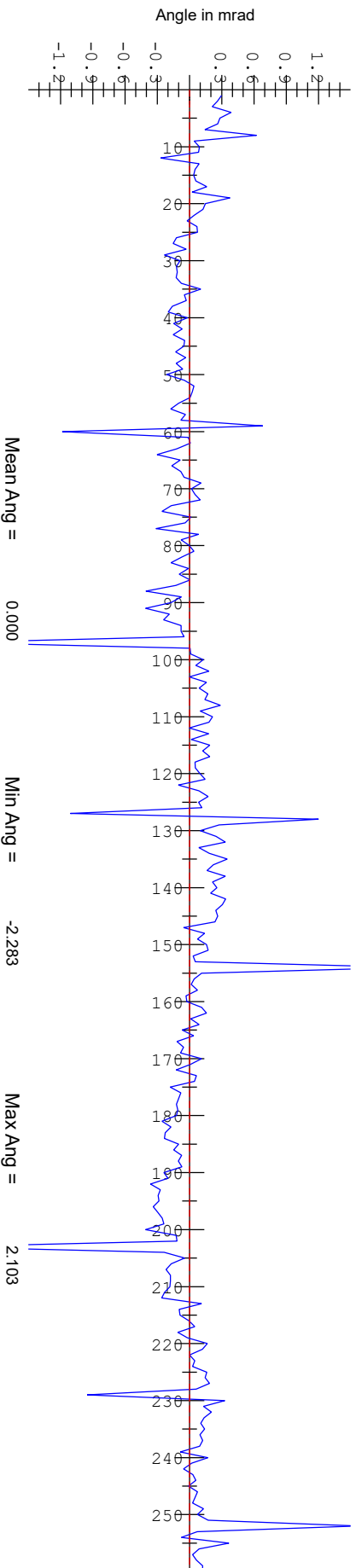


### Included Angle Between Pole Tips

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>7.9997</b>	<b>DS Full :</b>	<b>7.8997</b>
<b>Nom. Taper :</b>	<b>-0.100</b>	<b>US Wall Half :</b>	<b>4.0005</b>	<b>DS Wall Half :</b>	<b>3.9524</b>
		<b>US Aisle Half :</b>	<b>4.0023</b>	<b>DS Aisle Half :</b>	<b>3.9516</b>

<b>S/N</b>	<b>: HXU_032</b>
<b>Date</b>	<b>: 18-AUG-2020</b>
<b>Data Set</b>	<b>: 0001</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>



**Values Calculated from Regression Line End Points**

Dimension	X Value	Y Value	Z Value	Calc. Value
US Aisle Pole Tip(1)	4.018	0.000	8.750	
US Wall Pole Tip(1)	-4.020	0.000	8.750	
US Sym. Pt.	-0.001			
US Gap				8.038
DS Aisle Pole Tip(260)	3.974	0.000	3375.750	
DS Wall Pole Tip(260)	-3.963	0.000	3375.750	
DS Sym. Pt.	0.005			
DS Gap				7.937
Taper				-0.101

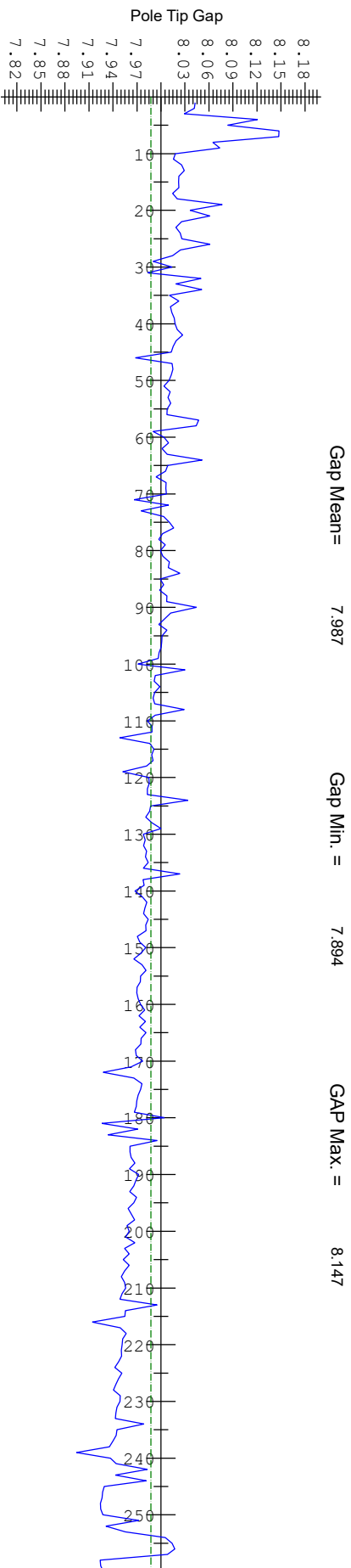
Dimensions in MM



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

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0005	DS Wall Half :	3.9524
		US Aisle Half :	4.0023	DS Aisle Half :	3.9516

S/N	: HXU_032
Date	: 18-AUG-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

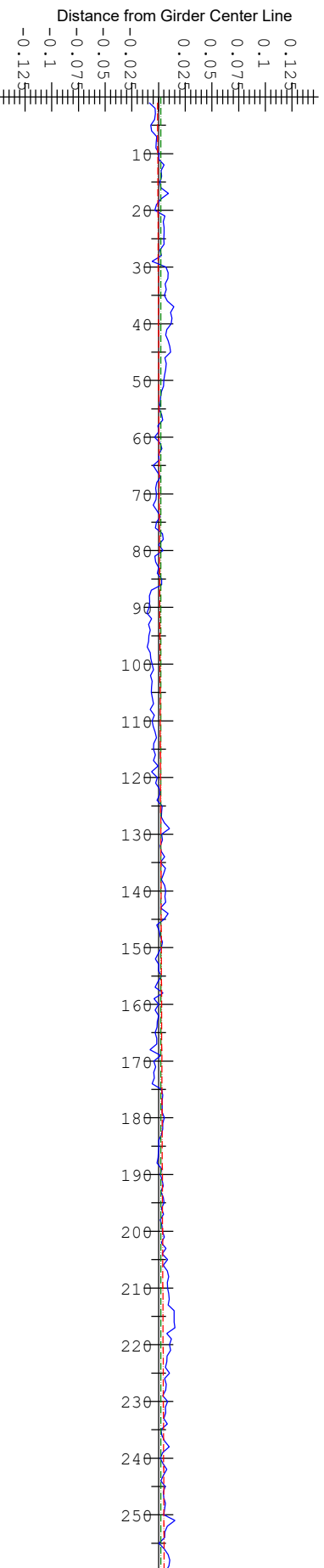


### Pole Tip Gap at Nom. Beam Height

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

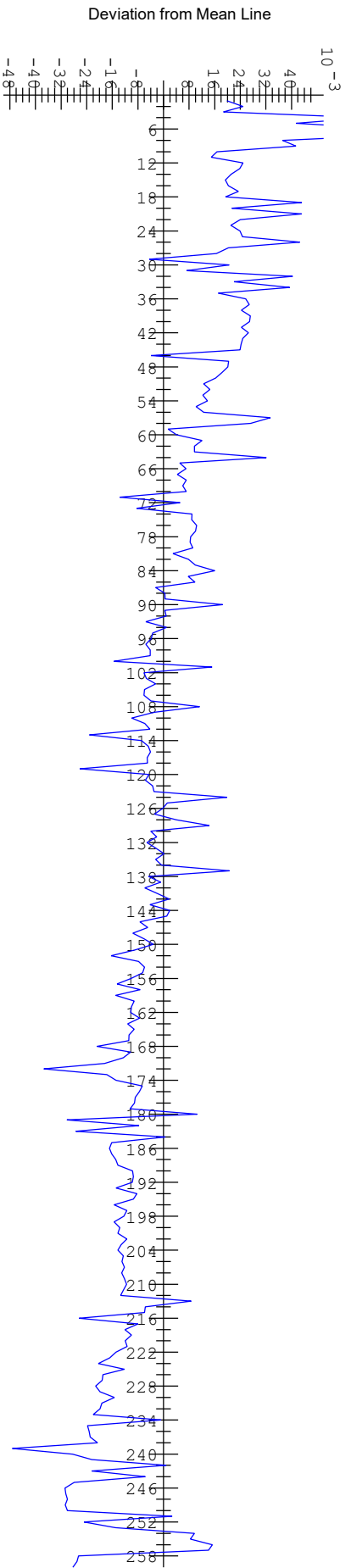
Dimensions in MM, Angles in Milliradians

**SLAC**  
NATIONAL ACCELERATOR LABORATORY  
METROLOGY

## HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0005	DS Wall Half :	3.9524
		US Aisle Half :	4.0023	DS Aisle Half :	3.9516

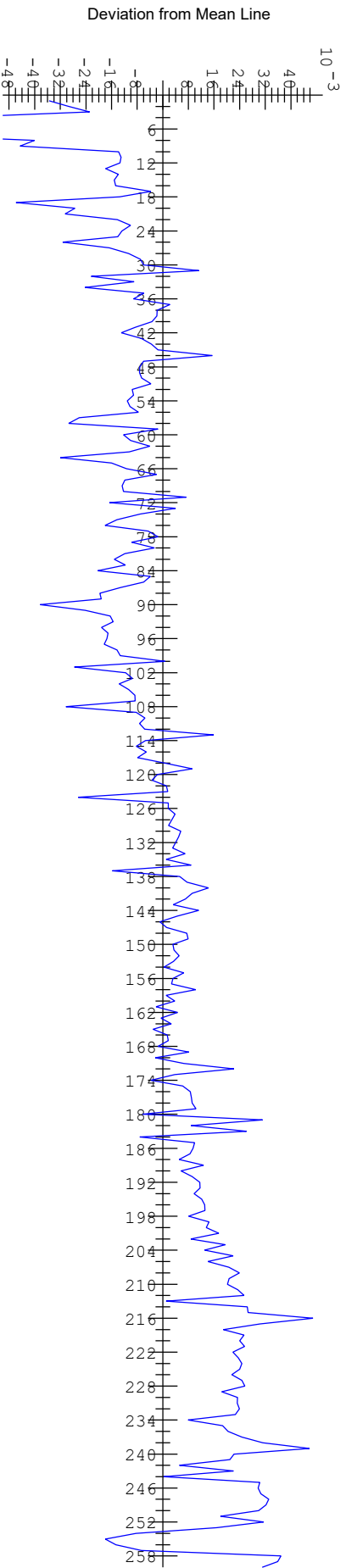
S/N	: HXU_032
Date	: 18-AUG-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



### 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 :	8.000	US Full :	7.9997	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0005	DS Wall Half :	3.9524
		US Aisle Half :	4.0023	DS Aisle Half :	3.9516

S/N	: HXU_032
Date	: 18-AUG-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B