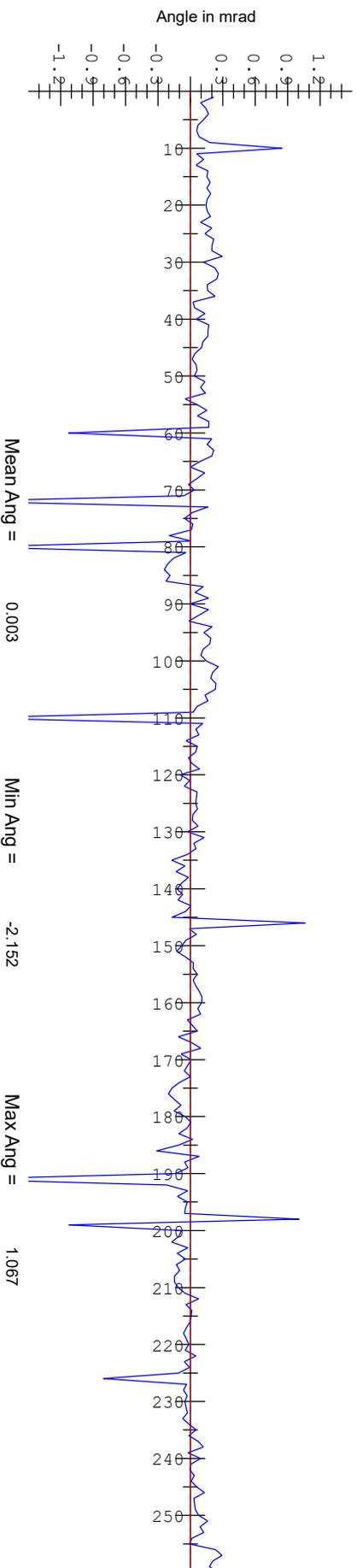


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



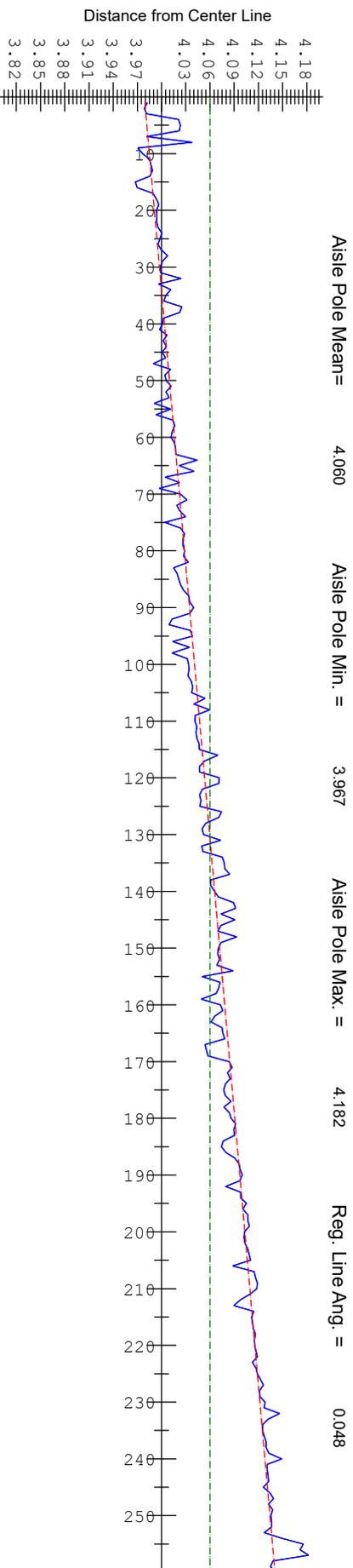
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Angles

<b>Nominal Gap :</b>	<b>8.000</b>	<b>US Full :</b>	<b>8.0005</b>	<b>DS Full :</b>	<b>8.3001</b>
<b>Nom. Taper :</b>	<b>0.300</b>	<b>US Wall Half :</b>	<b>4.0031</b>	<b>DS Wall Half :</b>	<b>4.1506</b>
		<b>US Aisle Half :</b>	<b>4.0019</b>	<b>DS Aisle Half :</b>	<b>4.1517</b>

<b>S/N</b>	<b>: HXU 016</b>
<b>Date</b>	<b>: 10-SEP-2020</b>
<b>Data Set</b>	<b>: 0001</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>



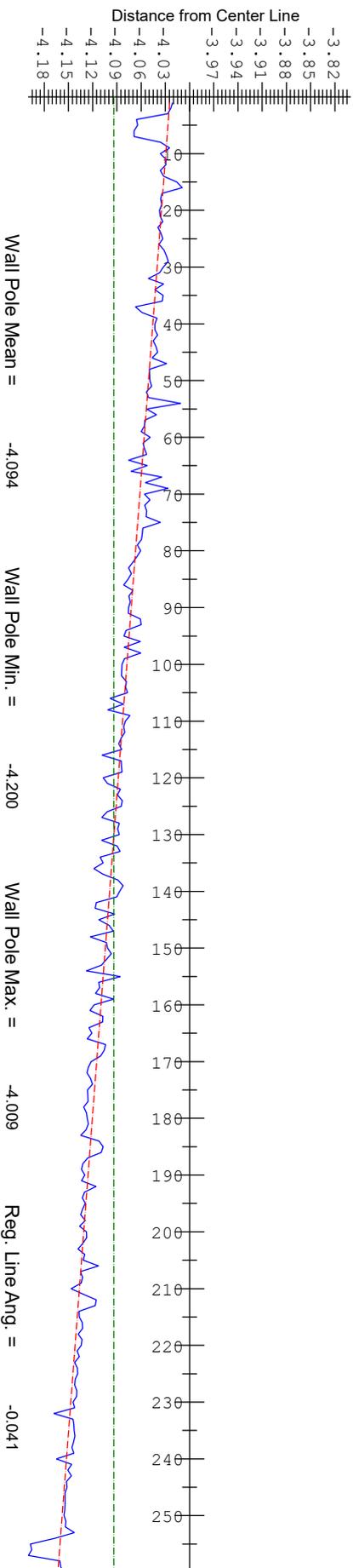
Pole Tip Num. ----->

### Aisle Pole Tips at Nom. Beam Height

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

### Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 7.935



### Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



### HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	8.000	US Full :	8.0005	DS Full :	8.3001
Nom. Taper :	0.300	US Wall Half :	4.0031	DS Wall Half :	4.1506
		US Aisle Half :	4.0019	DS Aisle Half :	4.1517

S/N	: HXU 016
Date	: 10-SEP-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)	3.979	0.000	8.750	
US Wall Pole Tip(1)	-4.025	0.000	8.750	
US Sym. Pt.	-0.023			
US Gap				8.004
DS Aisle Pole Tip(260)	4.141	0.000	3375.750	
DS Wall Pole Tip(260)	-4.163	0.000	3375.750	
DS Sym. Pt.	-0.011			
DS Gap				8.304
Taper				0.300

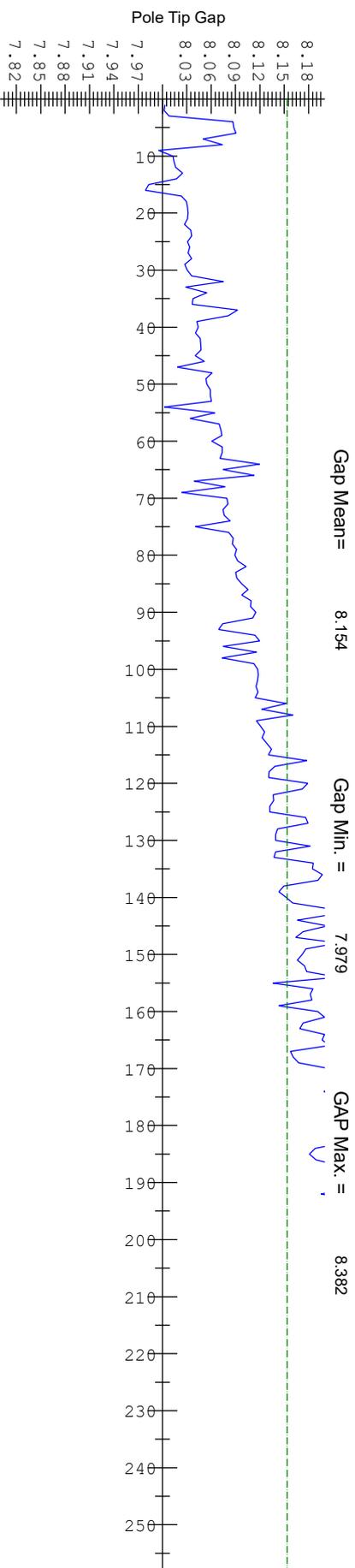
Dimensions in MM



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

Nominal Gap :	8.000	US Full :	8.0005	DS Full :	8.3001
US Wall Half :	4.0031	DS Wall Half :	4.1506		
US Aisle Half :	4.0019	DS Aisle Half :	4.1517		
Nom. Taper :	0.300				

S/N	: HXU_016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

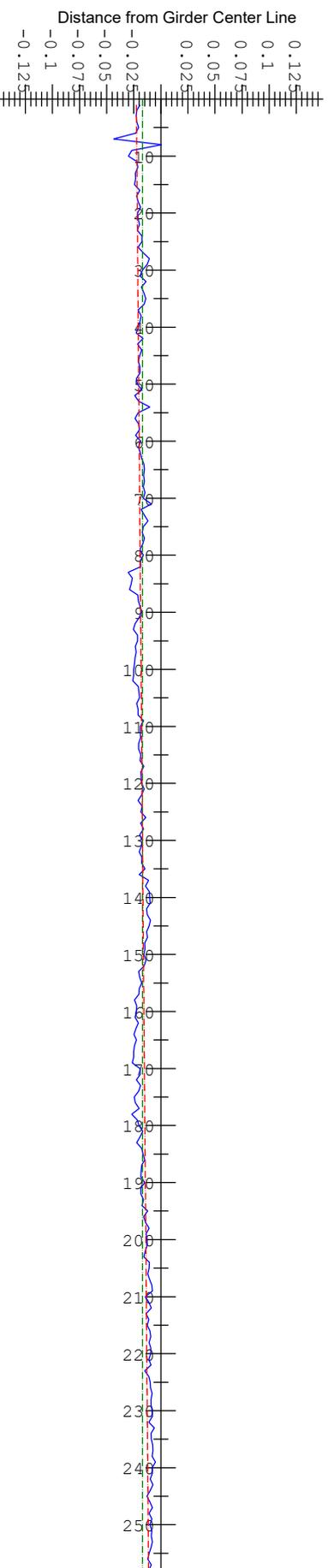


### Pole Tip Gap at Nom. Beam Height

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

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## HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	8.0005	DS Full :	8.3001
Nom. Taper :	0.300	US Wall Half :	4.0031	DS Wall Half :	4.1506
		US Aisle Half :	4.0019	DS Aisle Half :	4.1517

S/N	: HXU 016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



**SLAC**  
NATIONAL ACCELERATOR LABORATORY  
METROLOGY

**HGVPU - Pole Tip Deviation from Mean Line**

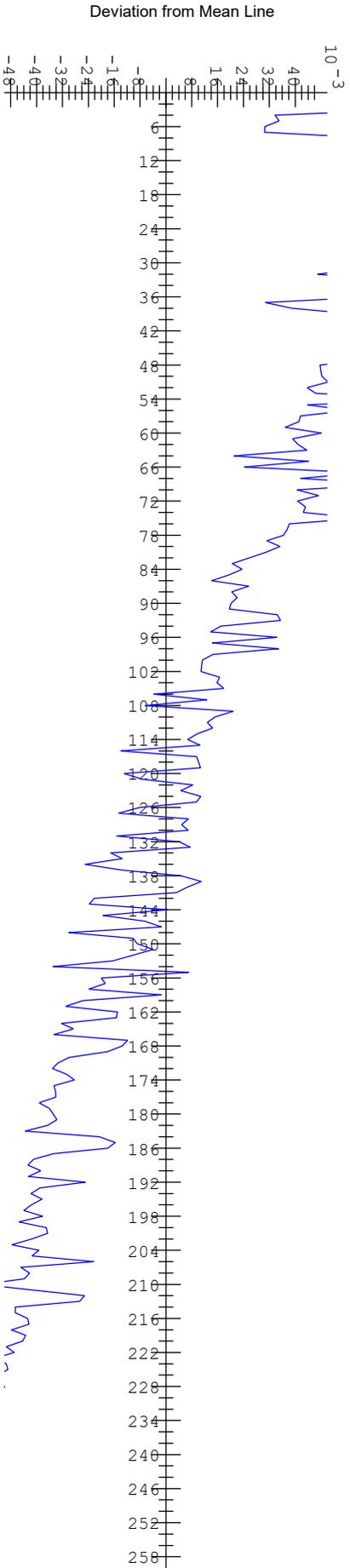
**Nominal Gap :** 8.000    **US Full :** 8.0005    **DS Full :** 8.3001

**Nom. Taper :** 0.300    **US Wall Half :** 4.0031    **DS Wall Half :** 4.1506

**US Aisle Half :** 4.0019    **DS Aisle Half :** 4.1517

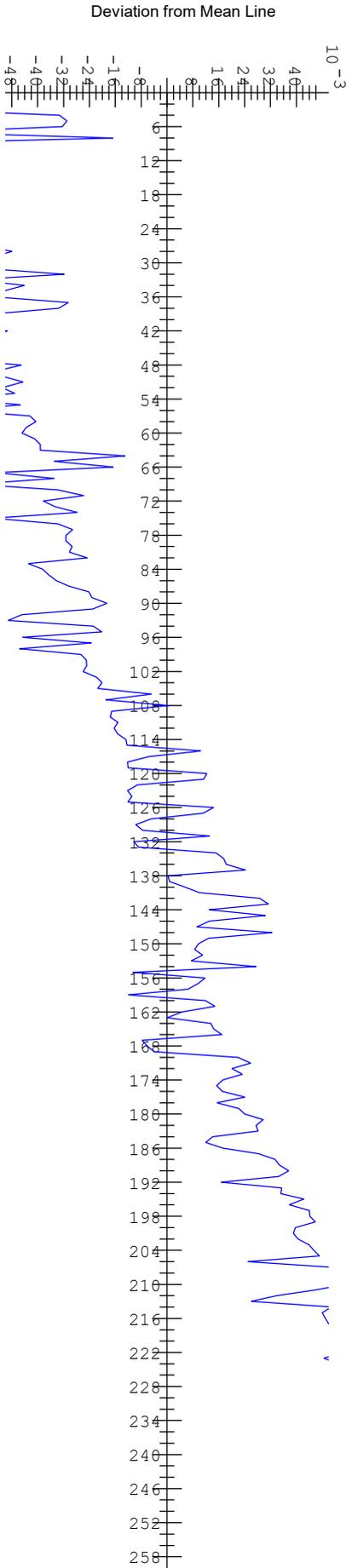
**Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane**

Dimensions in MM



**Wall Pole Tips**

Pole Tip Num. ----->



**Aisle Pole Tips**