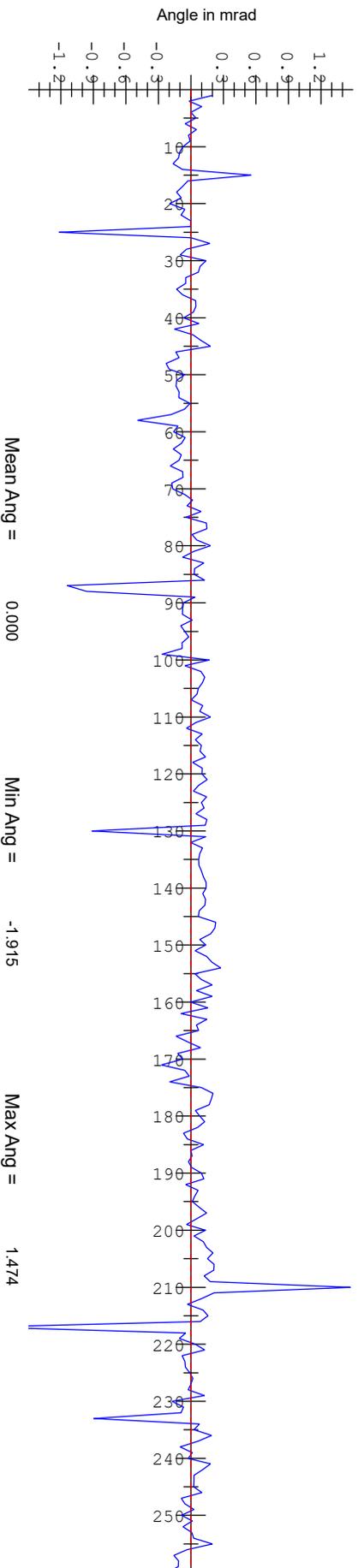


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



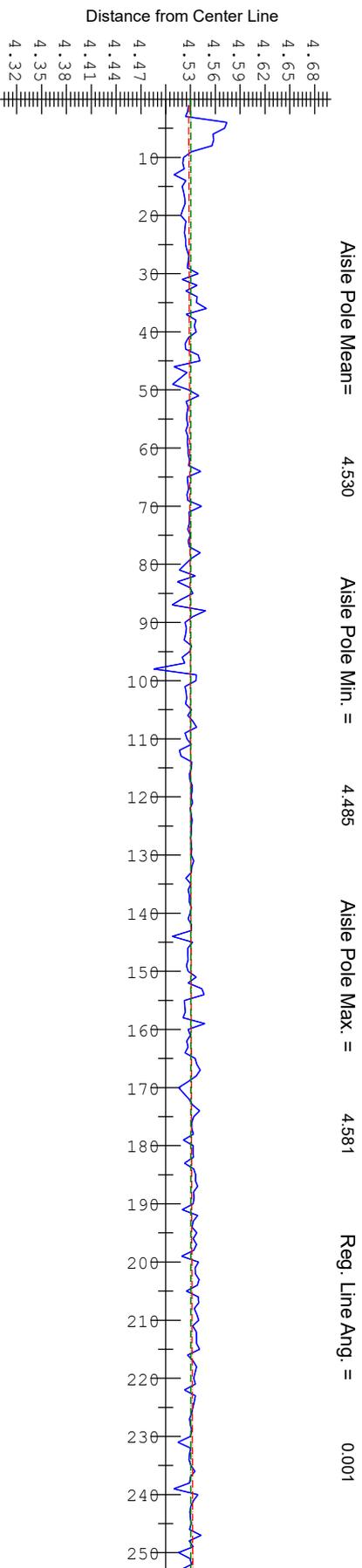
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Angles

<b>Nominal Gap :</b>	<b>9.000</b>	<b>US Full :</b>	<b>9.0003</b>	<b>DS Full :</b>	<b>9.0000</b>
<b>Nom. Taper :</b>	<b>0.000</b>	<b>US Wall Half :</b>	<b>4.5016</b>	<b>DS Wall Half :</b>	<b>4.5004</b>
		<b>US Aisle Half :</b>	<b>4.4991</b>	<b>DS Aisle Half :</b>	<b>4.5005</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>

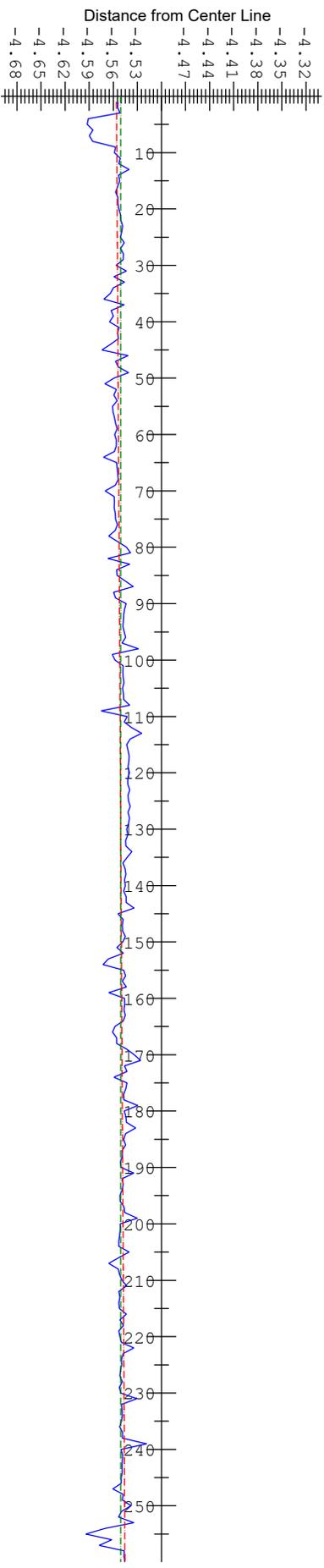


Pole Tip Num. ----->

### Aisle Pole Tips at Nom. Beam Height

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

Minimum Clearance Gap = 8.971



### Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	9.000	US Full :	9.0003	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5016	DS Wall Half :	4.5004
		US Aisle Half :	4.4991	DS Aisle Half :	4.5005

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)	4.528	0.000	8.750	
US Wall Pole Tip(1)	-4.556	0.000	8.750	
US Sym. Pt.	-0.014			
US Gap				9.084
DS Aisle Pole Tip(260)	4.533	0.000	3375.750	
DS Wall Pole Tip(260)	-4.545	0.000	3375.750	
DS Sym. Pt.	-0.006			
DS Gap				9.078
Taper				-0.005

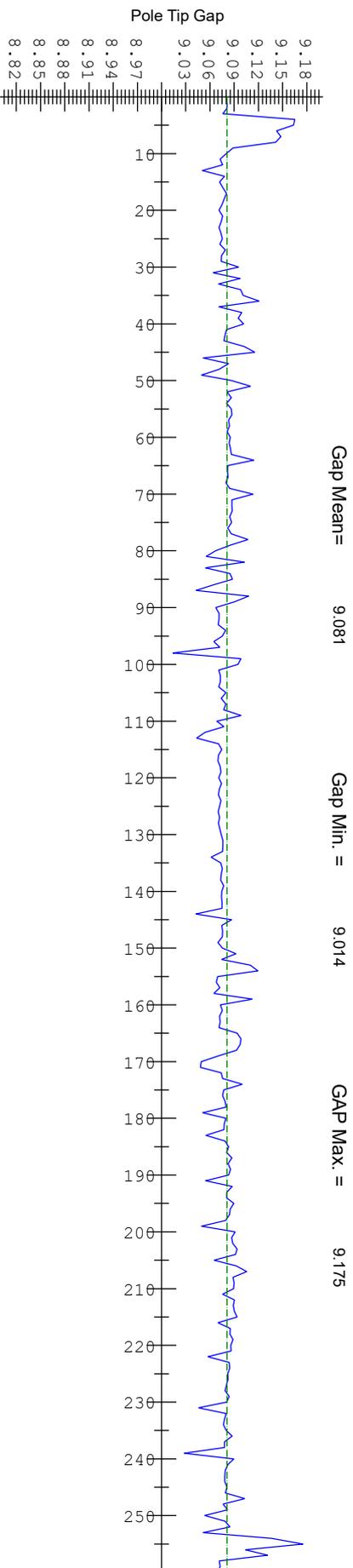
Dimensions in MM



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

Nominal Gap :	9.000	US Full :	9.0003	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5016	DS Wall Half :	4.5004
		US Aisle Half :	4.4991	DS Aisle Half :	4.5005

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

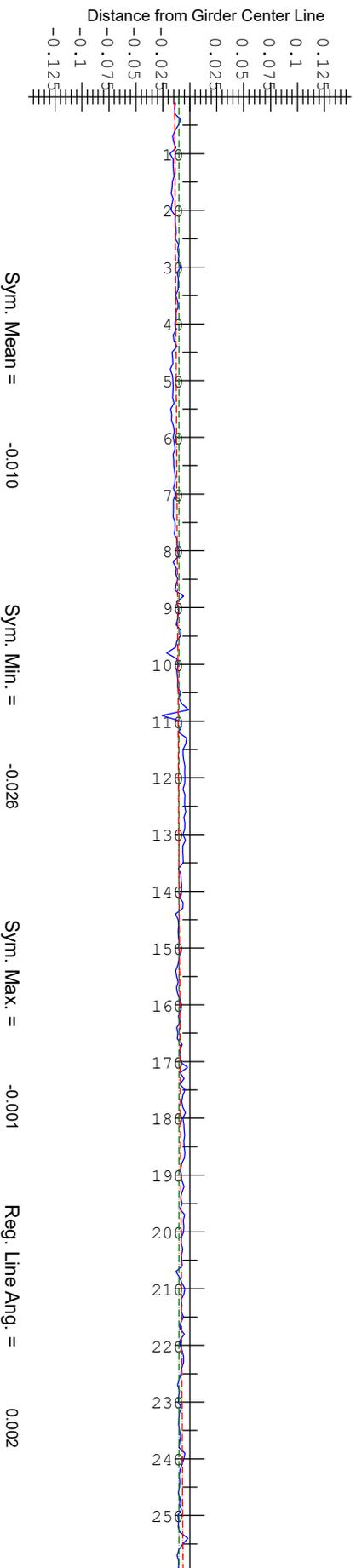


### Pole Tip Gap at Nom. Beam Height

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

Pole Tip Num. ----->

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



### Girder centerline in reference to Pointed Magnets

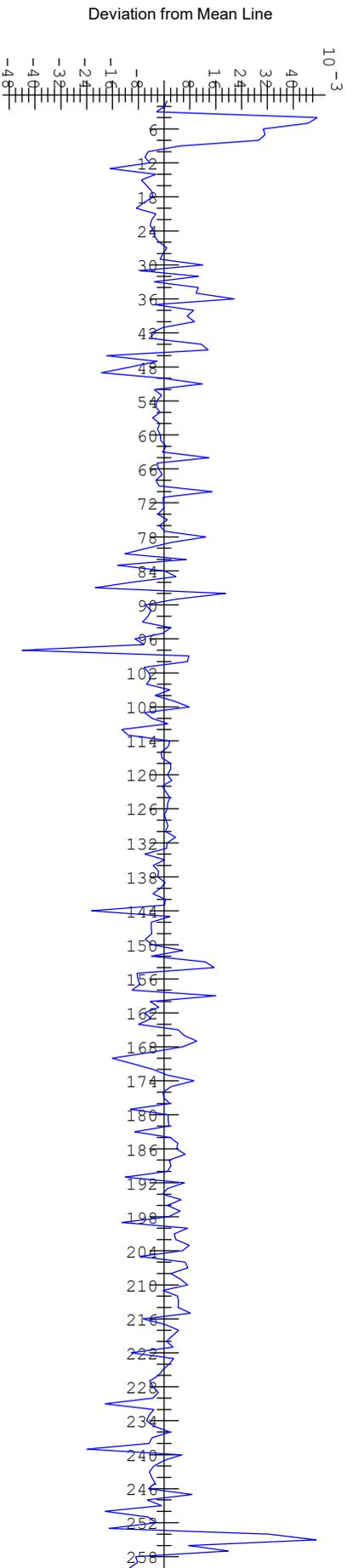
Dimensions in MM, Angles in Milliradians

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## HGVPU - Pole Tip Gap and Symmetry Point Location

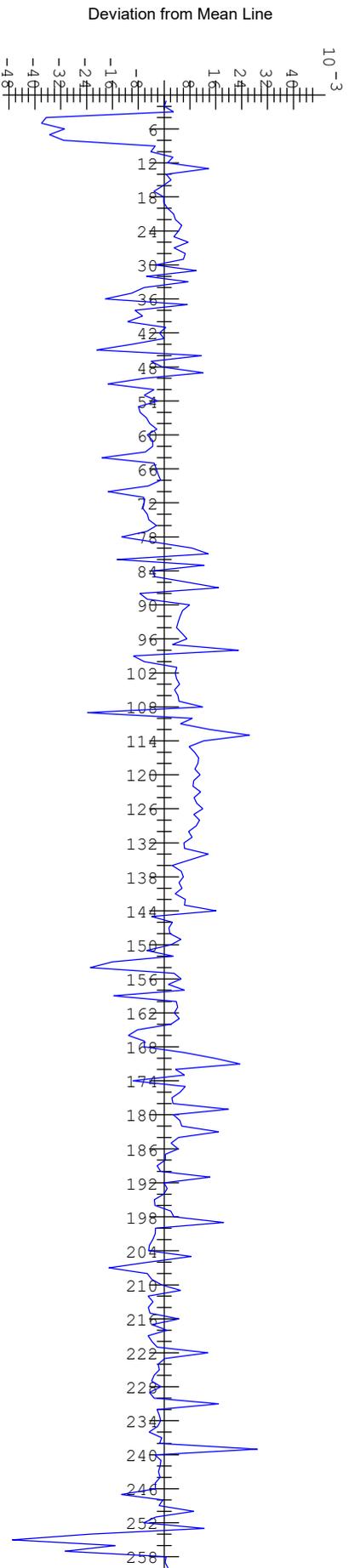
Nominal Gap :	9.000	US Full :	9.0003	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5016	DS Wall Half :	4.5004
		US Aisle Half :	4.4991	DS Aisle Half :	4.5005

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 :	9.000	US Full :	9.0003	DS Full :	9.0000
Nom. Taper :	0.000	US Wall Half :	4.5016	DS Wall Half :	4.5004
		US Aisle Half :	4.4991	DS Aisle Half :	4.5005

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