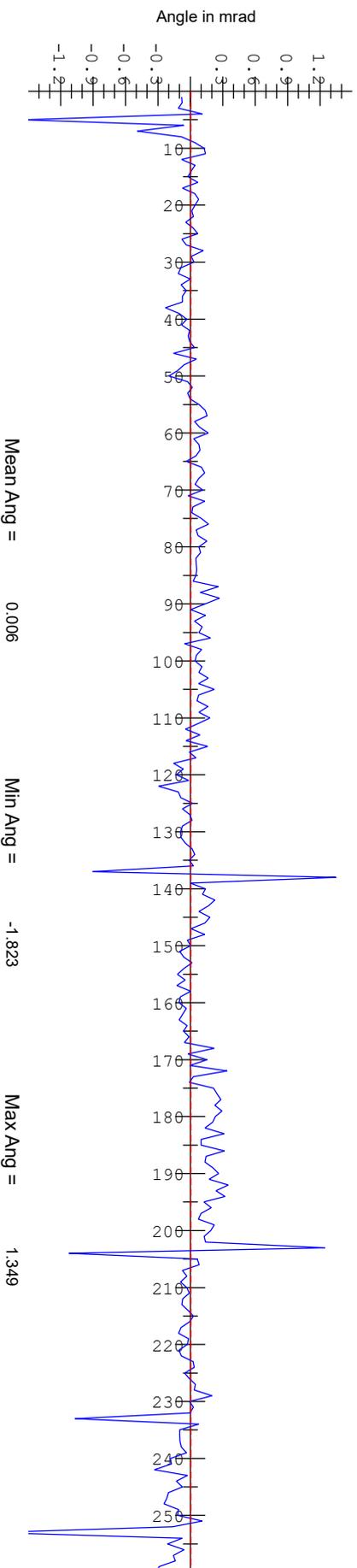


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



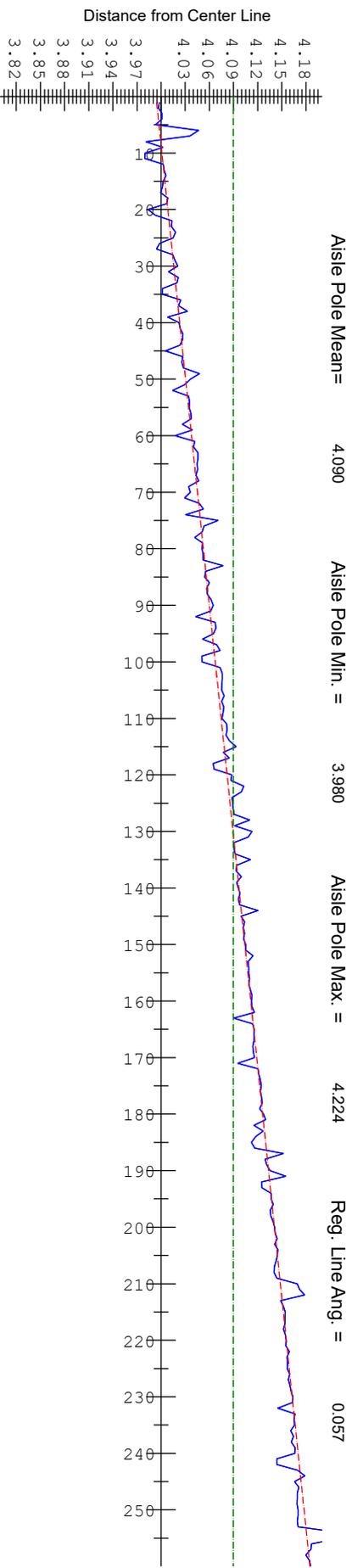
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Angles

<b>Nominal Gap :</b>	<b>8.000</b>	<b>US Full :</b>	<b>8.0002</b>	<b>DS Full :</b>	<b>8.2995</b>
<b>Nom. Taper :</b>	<b>0.300</b>	<b>US Wall Half :</b>	<b>4.0023</b>	<b>DS Wall Half :</b>	<b>4.1502</b>
		<b>US Aisle Half :</b>	<b>4.0019</b>	<b>DS Aisle Half :</b>	<b>4.1504</b>

<b>S/N</b>	<b>: HXU 017</b>
<b>Date</b>	<b>: 02-OCT-2020</b>
<b>Data Set</b>	<b>: 0001</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>

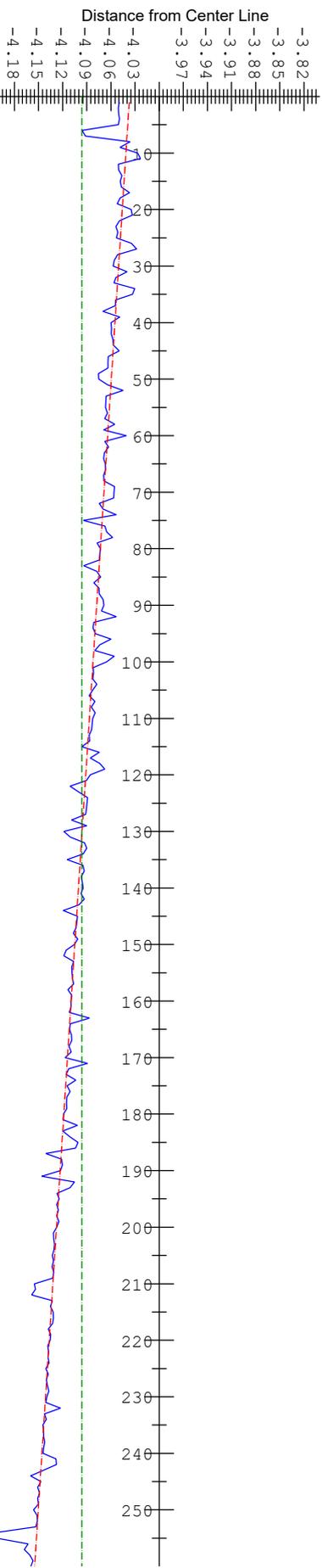


Pole Tip Num. ----->

### Aisle Pole Tips at Nom. Beam Height

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

Minimum Clearance Gap = 7.959



### Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

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## HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap : 8.000    US Full : 8.0002    DS Full : 8.2995

Nom. Taper : 0.300    US Wall Half : 4.0023    DS Wall Half : 4.1502

US Aisle Half : 4.0019    DS Aisle Half : 4.1504

S/N : HXU\_017

Date : 02-OCT-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
<b>US Aisle Pole Tip(1)</b>	<b>3.994</b>	<b>0.000</b>	<b>8.750</b>	
<b>US Wall Pole Tip(1)</b>	<b>-4.037</b>	<b>0.000</b>	<b>8.750</b>	
<b>US Sym. Pt.</b>	<b>-0.021</b>			
<b>US Gap</b>				<b>8.032</b>
<b>DS Aisle Pole Tip(260)</b>	<b>4.185</b>	<b>0.000</b>	<b>3375.750</b>	
<b>DS Wall Pole Tip(260)</b>	<b>-4.155</b>	<b>0.000</b>	<b>3375.750</b>	
<b>DS Sym. Pt.</b>	<b>0.015</b>			
<b>DS Gap</b>				<b>8.340</b>
<b>Taper</b>				<b>0.308</b>

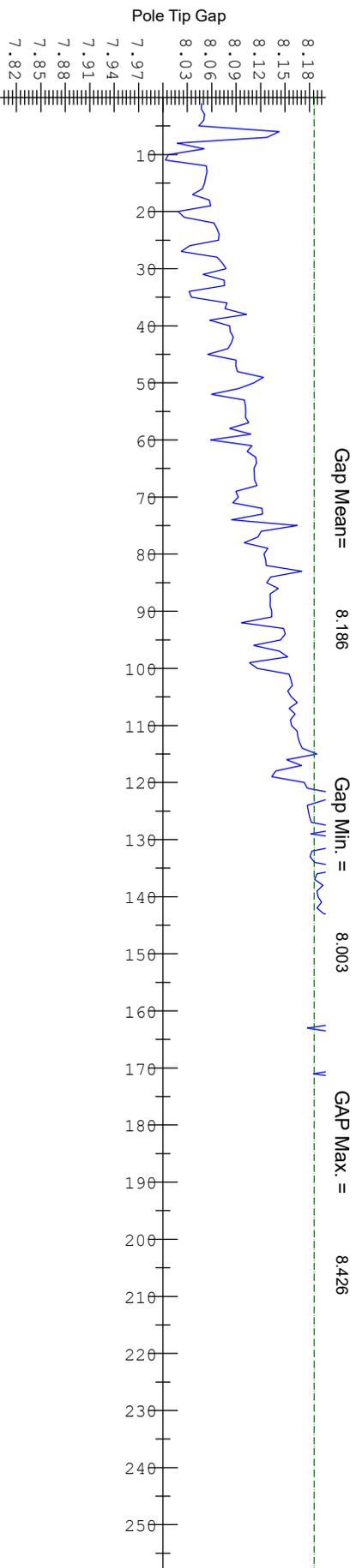
Dimensions in MM



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

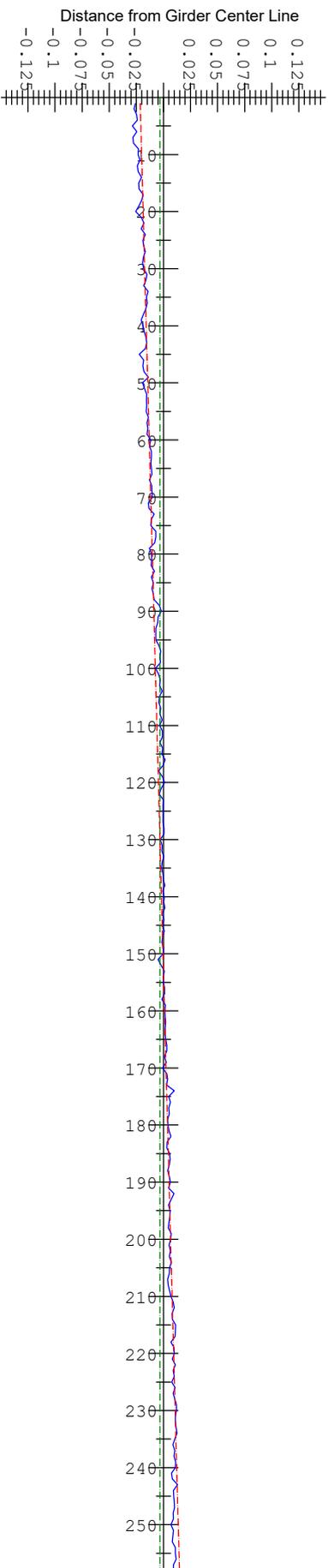
<b>Nominal Gap :</b>	<b>8.000</b>	<b>US Full :</b>	<b>8.0002</b>	<b>DS Full :</b>	<b>8.2995</b>
<b>Nom. Taper :</b>	<b>0.300</b>	<b>US Wall Half :</b>	<b>4.0023</b>	<b>DS Wall Half :</b>	<b>4.1502</b>
		<b>US Aisle Half :</b>	<b>4.0019</b>	<b>DS Aisle Half :</b>	<b>4.1504</b>

<b>S/N</b>	: <b>HXU_017</b>
<b>Date</b>	: <b>02-OCT-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. ----->

### 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 :	8.0002	DS Full :	8.2995
Nom. Taper :	0.300	US Wall Half :	4.0023	DS Wall Half :	4.1502
		US Aisle Half :	4.0019	DS Aisle Half :	4.1504

S/N	: HXU_017
Date	: 02-OCT-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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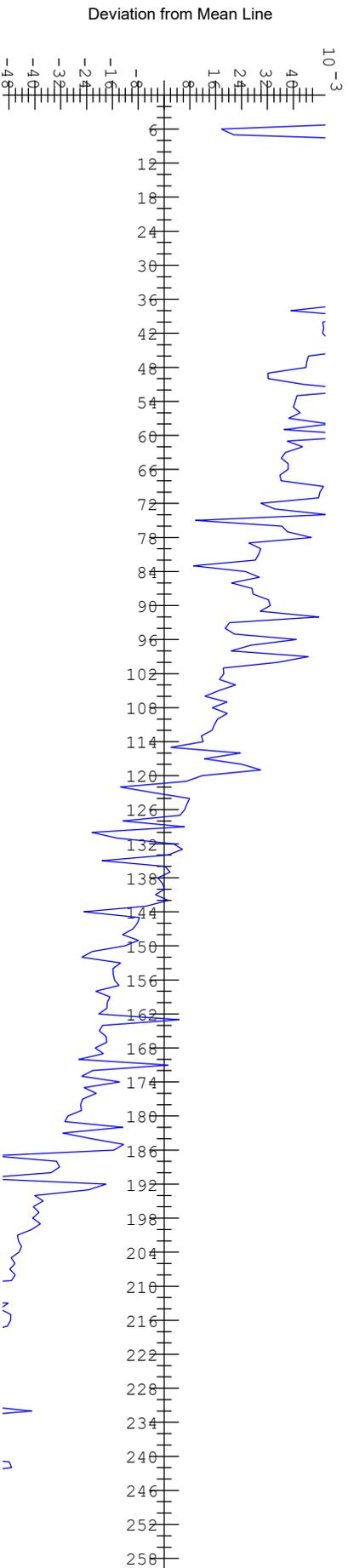
**HGVPU - Pole Tip Deviation from Mean Line**

Nominal Gap : 8.000 US Full : 8.0002 DS Full : 8.2995  
 Nom. Taper : 0.300 US Wall Half : 4.0023 DS Wall Half : 4.1502  
 US Aisle Half : 4.0019 DS Aisle Half : 4.1504

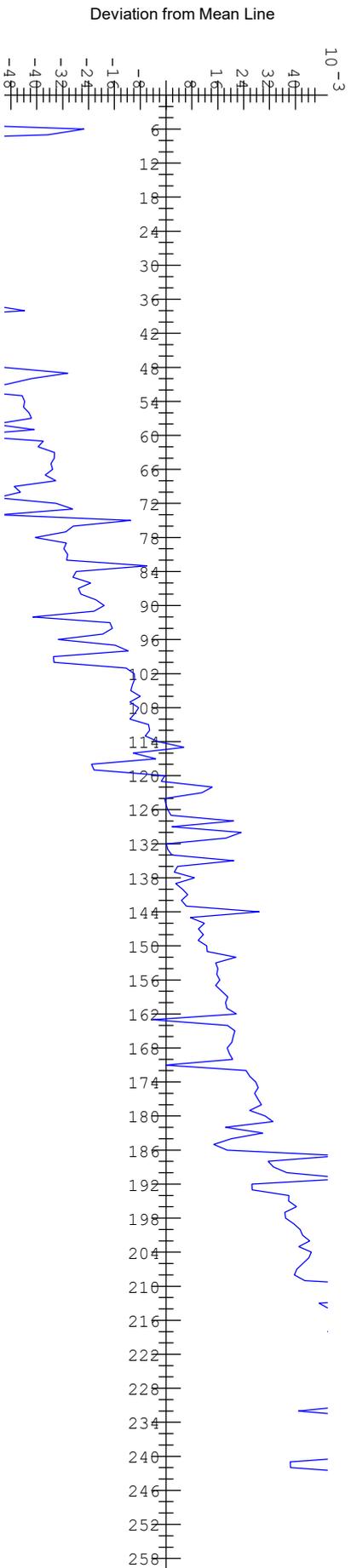
S/N : HXU\_017  
 Date : 02-OCT-2020  
 Data Set : 0001  
 Run : FINAL  
 Cam Pos. : B

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

Dimensions in MM



**Wall Pole Tips**



**Aisle Pole Tips**