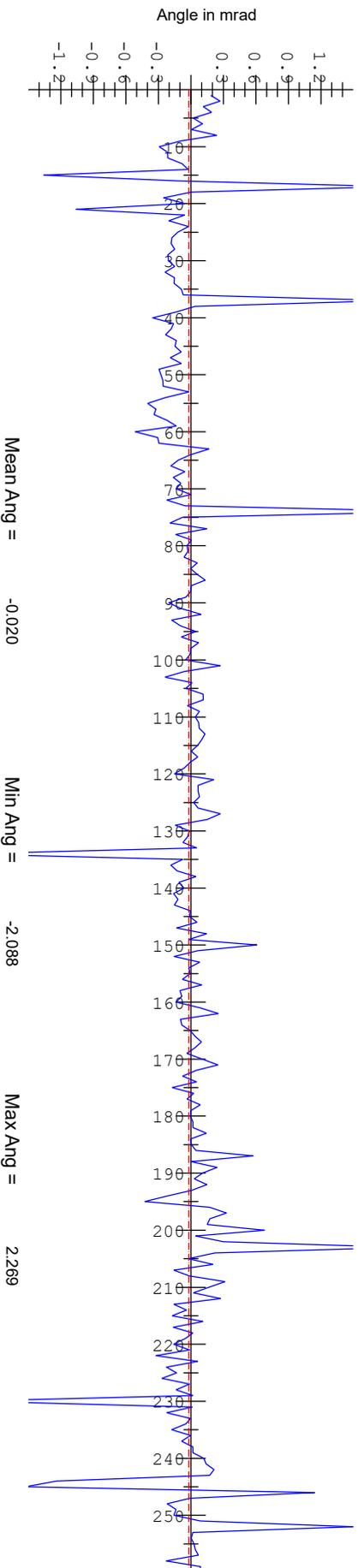


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

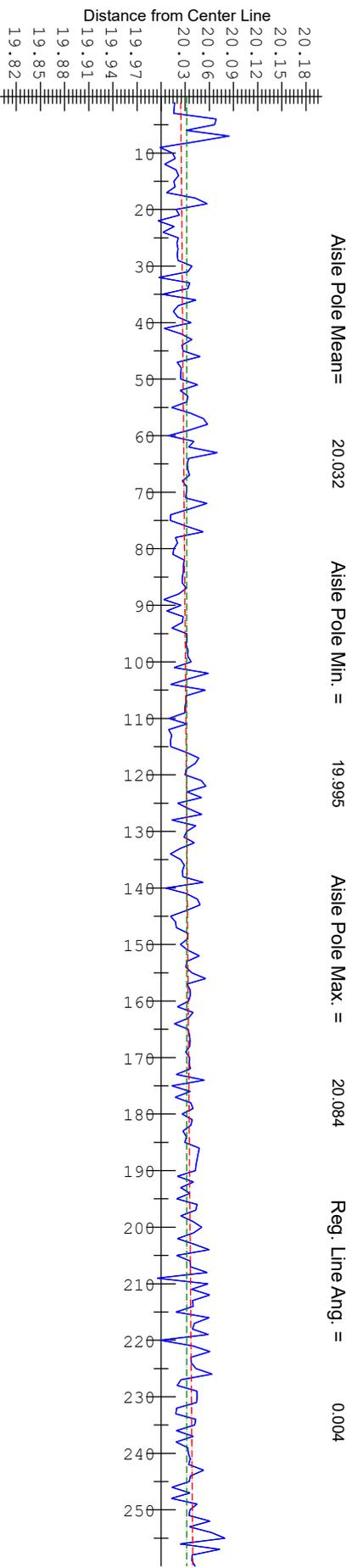


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## HGVPU - Pole Tip Angles

Nominal Gap :	40.000	US Full :	40.0001	DS Full :	40.0003
Nom. Taper :	0.000	US Wall Half :	19.9891	DS Wall Half :	19.9900
		US Aisle Half :	19.9888	DS Aisle Half :	19.9910

S/N	: HXU 000
Date	: 31-AUG-2021
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

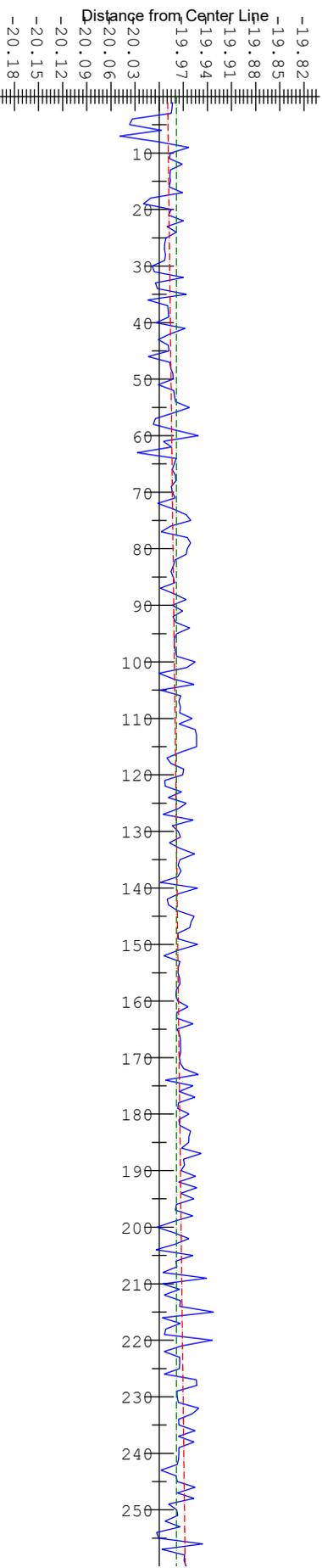


Pole Tip Num. ----->

### Aisle Pole Tips at Nom. Beam Height

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

Minimum Clearance Gap = 39.864



### 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 : 40.000      US Full : 40.0001      DS Full : 40.0003

Nom. Taper : 0.000      US Wall Half : 19.9891      DS Wall Half : 19.9900

US Aisle Half : 19.9888      DS Aisle Half : 19.9910

S/N : HXU\_000

Date : 31-AUG-2021

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)	20.024	0.000	8.750	
US Wall Pole Tip(1)	-19.989	0.000	8.750	
US Sym. Pt.	0.018			
US Gap				40.014
DS Aisle Pole Tip(260)	20.039	0.000	3375.750	
DS Wall Pole Tip(260)	-19.968	0.000	3375.750	
DS Sym. Pt.	0.036			
DS Gap				40.007
Taper				-0.007

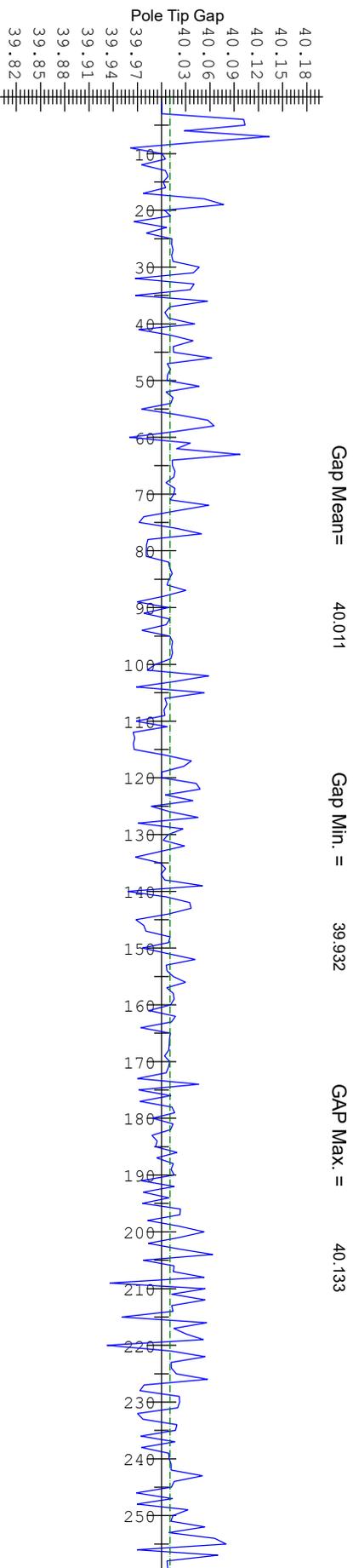
Dimensions in MM



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

Nominal Gap :	40.000	US Full :	40.0001	DS Full :	40.0003
Nom. Taper :	0.000	US Wall Half :	19.9891	DS Wall Half :	19.9900
		US Aisle Half :	19.9888	DS Aisle Half :	19.9910

S/N	: HXU_000
Date	: 31-AUG-2021
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

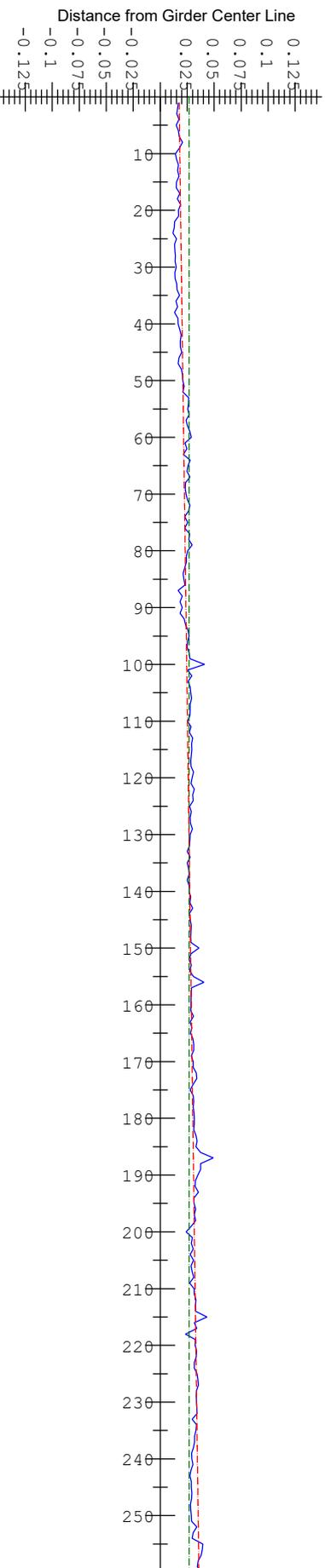


### Pole Tip Gap at Nom. Beam Height

Pole Tip Num. ----->

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 :	40.000	US Full :	40.0001	DS Full :	40.0003
Nom. Taper :	0.000	US Wall Half :	19.9891	DS Wall Half :	19.9900
		US Aisle Half :	19.9888	DS Aisle Half :	19.9910

S/N	: HXU_000
Date	: 31-AUG-2021
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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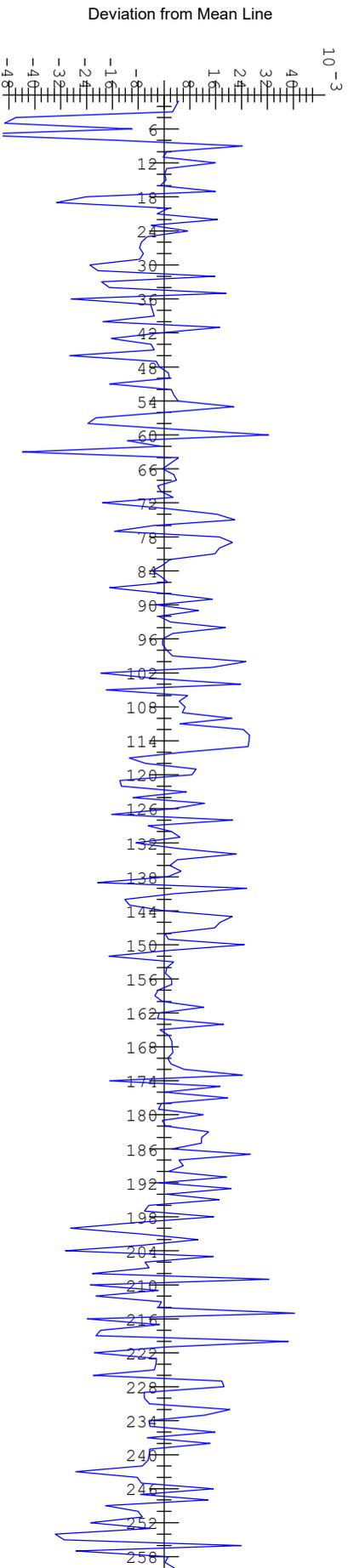
**HGVPU - Pole Tip Deviation from Mean Line**

Nominal Gap : 40.000 US Full : 40.0001 DS Full : 40.0003  
 Nom. Taper : 0.000 US Wall Half : 19.9891 DS Wall Half : 19.9900  
 US Aisle Half : 19.9888 DS Aisle Half : 19.9910

S/N : HXU\_000  
 Date : 31-AUG-2021  
 Data Set : 0001  
 Run : FINAL  
 Cam Pos. : B

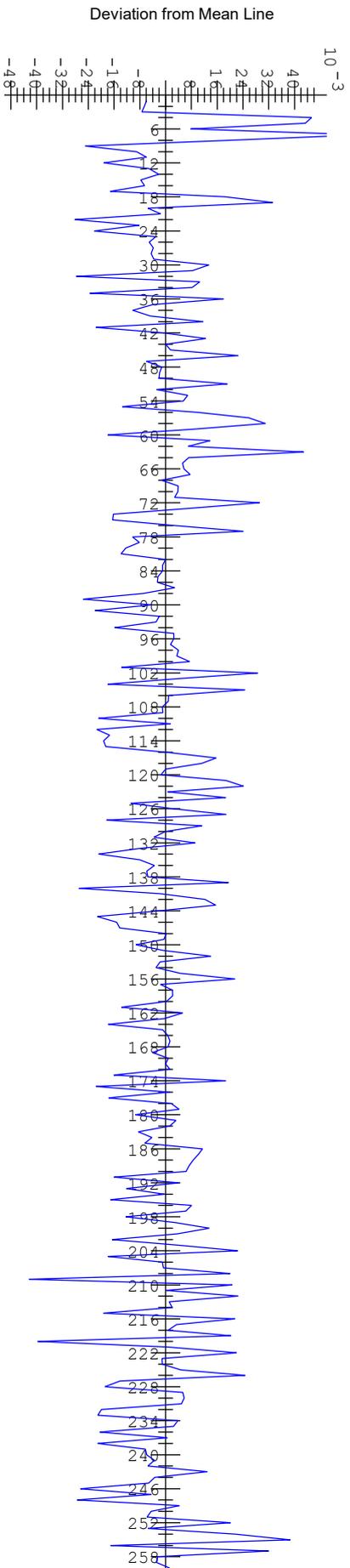
**Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane**

Dimensions in MM



Pole Tip Num. ----->

**Wall Pole Tips**



**Aisle Pole Tips**