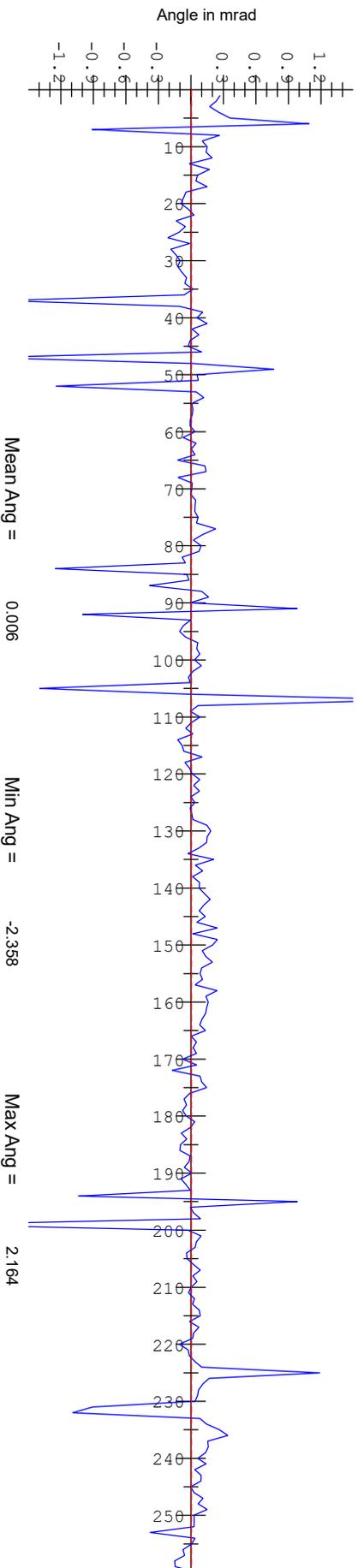


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



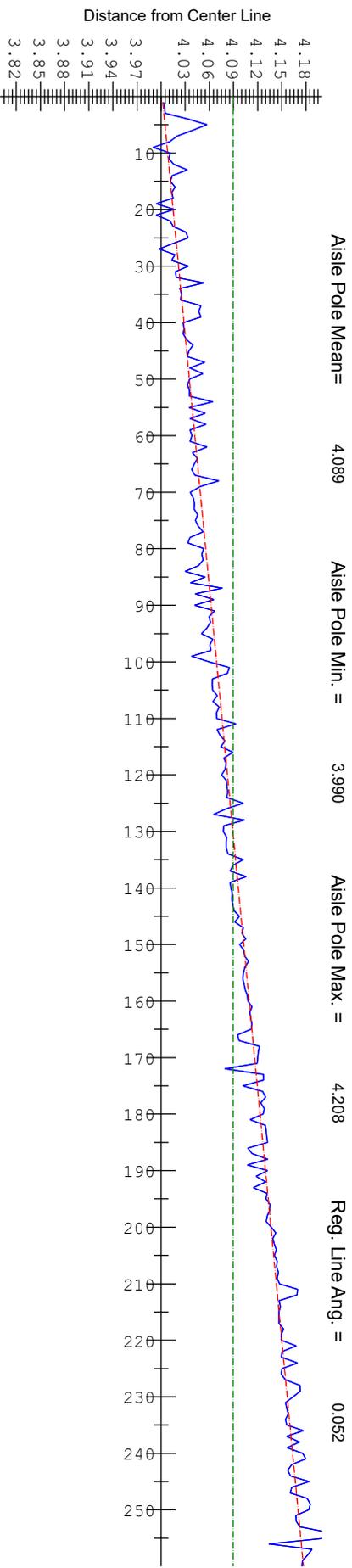
Dimensions in MM, Angles in Milliradians

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## HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	8.0005	DS Full :	8.3000
Nom. Taper :	0.300	US Wall Half :	4.0017	DS Wall Half :	4.1464
		US Aisle Half :	4.0021	DS Aisle Half :	4.1470

S/N	: HXU 015
Date	: 05-NOV-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

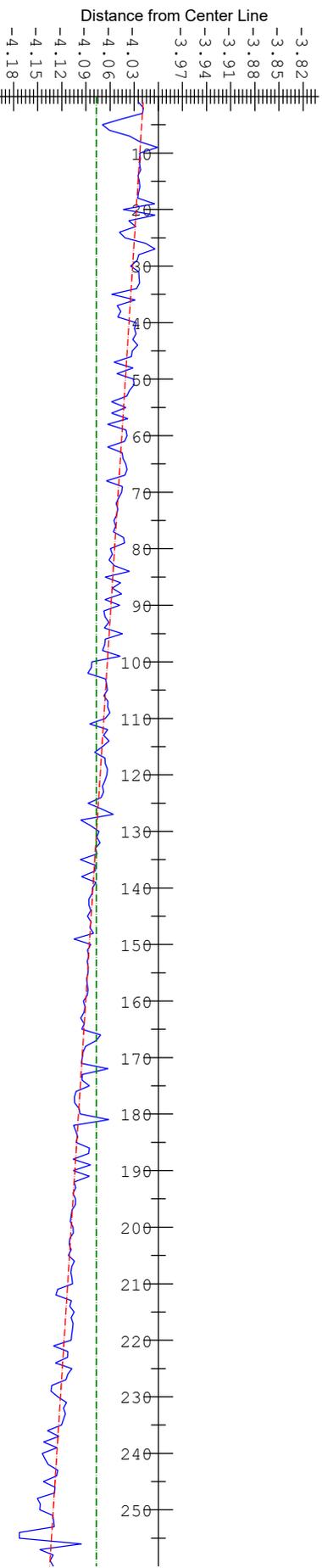


### Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. ----->

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

Minimum Clearance Gap = 7.980



### 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 :	8.0005	DS Full :	8.3000
Nom. Taper :	0.300	US Wall Half :	4.0017	DS Wall Half :	4.1464
		US Aisle Half :	4.0021	DS Aisle Half :	4.1470

S/N	: HXU 015
Date	: 05-NOV-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)	4.002	0.000	8.750	
US Wall Pole Tip(1)	-4.019	0.000	8.750	
US Sym. Pt.	-0.008			
US Gap				8.021
DS Aisle Pole Tip(260)	4.177	0.000	3375.750	
DS Wall Pole Tip(260)	-4.135	0.000	3375.750	
DS Sym. Pt.	0.021			
DS Gap				8.312
Taper				0.291

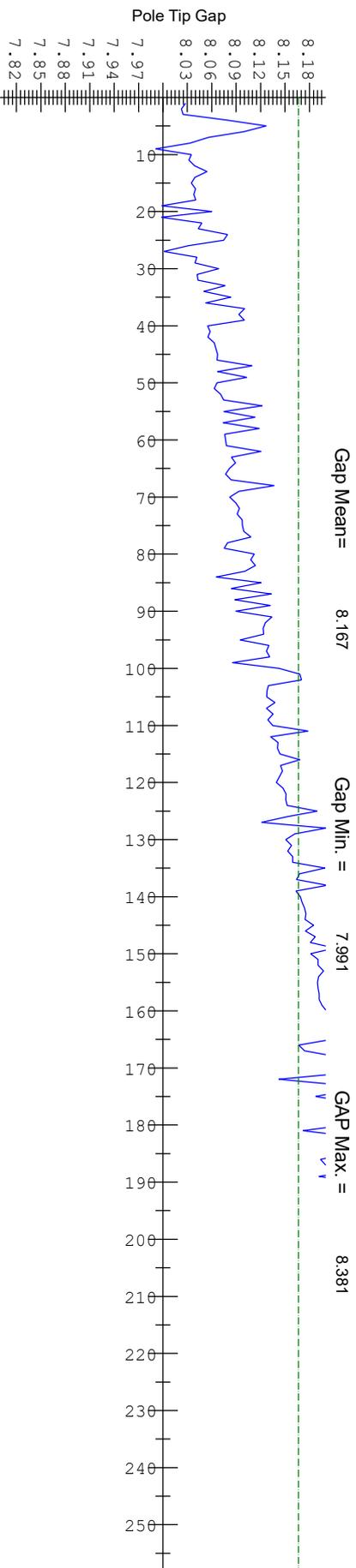
Dimensions in MM



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

Nominal Gap :	8.000	US Full :	8.0005	DS Full :	8.3000
US Wall Half :	4.0017	DS Wall Half :	4.1464		
US Aisle Half :	4.0021	DS Aisle Half :	4.1470		
Nom. Taper :	0.300				

S/N	: HXU 015
Date	: 05-NOV-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

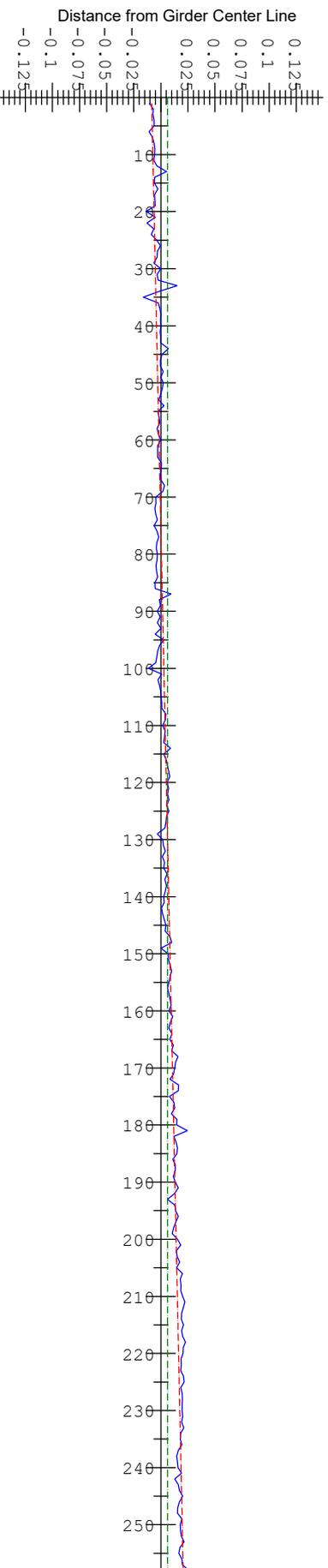


### Pole Tip Gap at Nom. Beam Height

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 :	8.3000
Nom. Taper :	0.300	US Wall Half :	4.0017	DS Wall Half :	4.1464
		US Aisle Half :	4.0021	DS Aisle Half :	4.1470

S/N	: HXU 015
Date	: 05-NOV-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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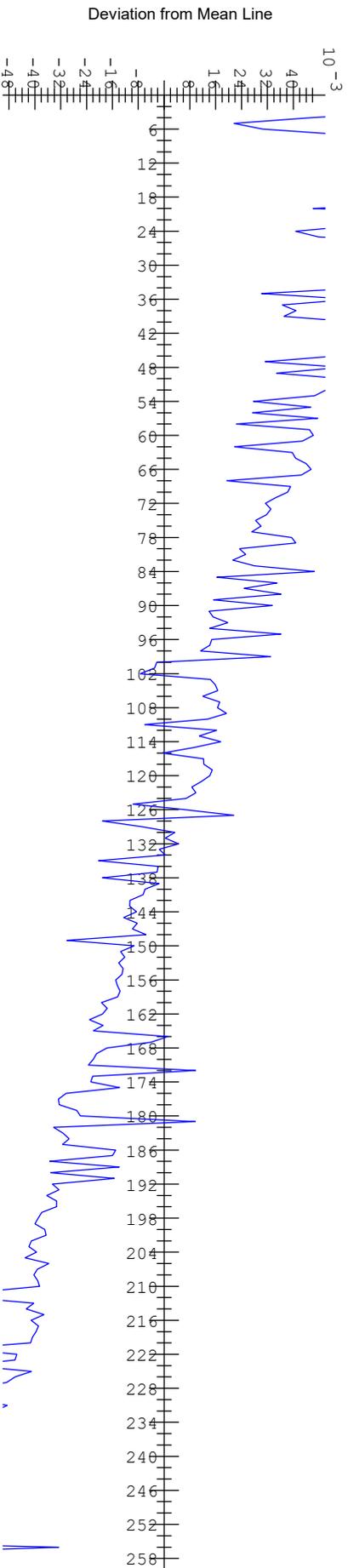
**HGVPU - Pole Tip Deviation from Mean Line**

Nominal Gap : 8.000 US Full : 8.0005 DS Full : 8.3000  
 Nom. Taper : 0.300 US Wall Half : 4.0017 DS Wall Half : 4.1464  
 US Aisle Half : 4.0021 DS Aisle Half : 4.1470

S/N : HXU 015  
 Date : 05-NOV-2020  
 Data Set : 0001  
 Run : FINAL  
 Cam Pos. : B

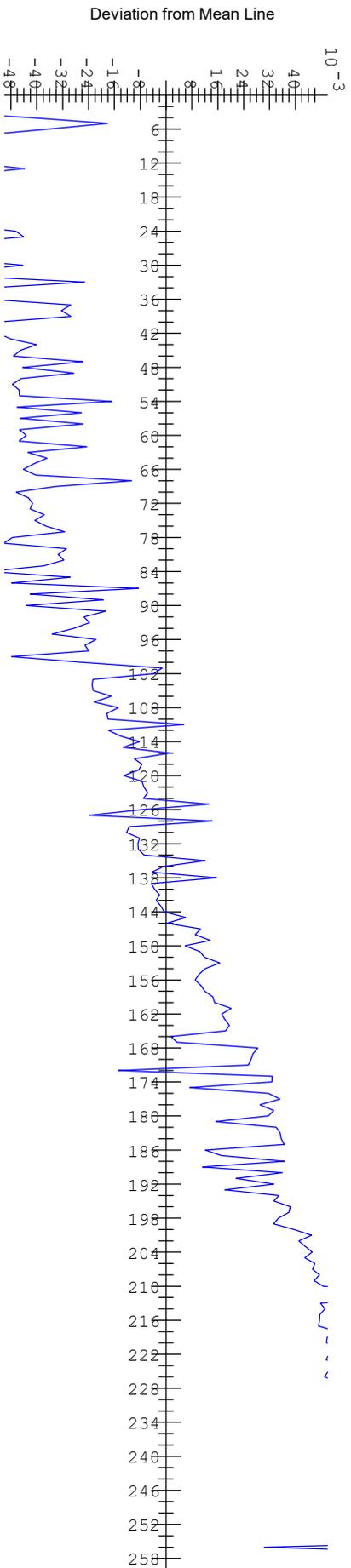
**Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane**

Dimensions in MM



Pole Tip Num. ----->

**Wall Pole Tips**



**Aisle Pole Tips**