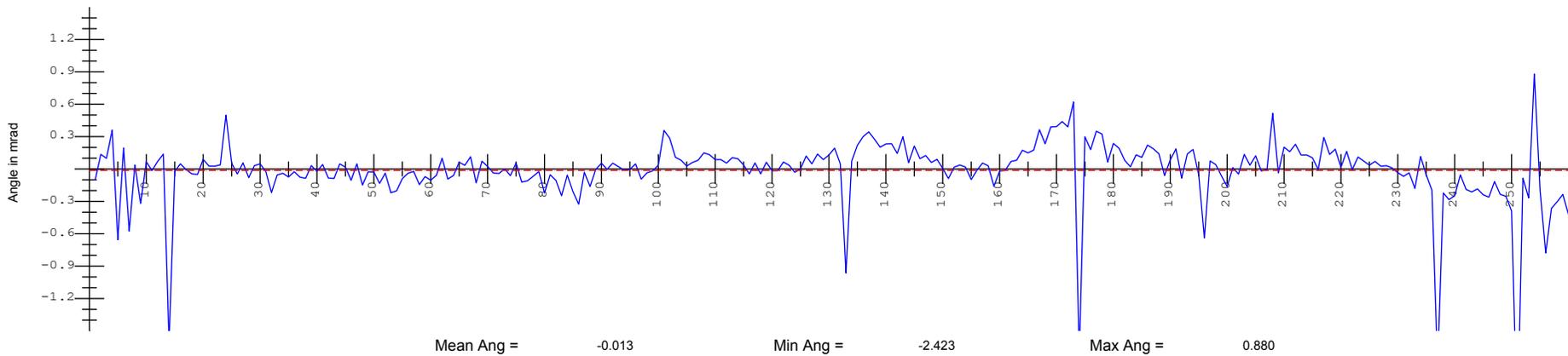


**Included Angle Between Pole Tips**

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

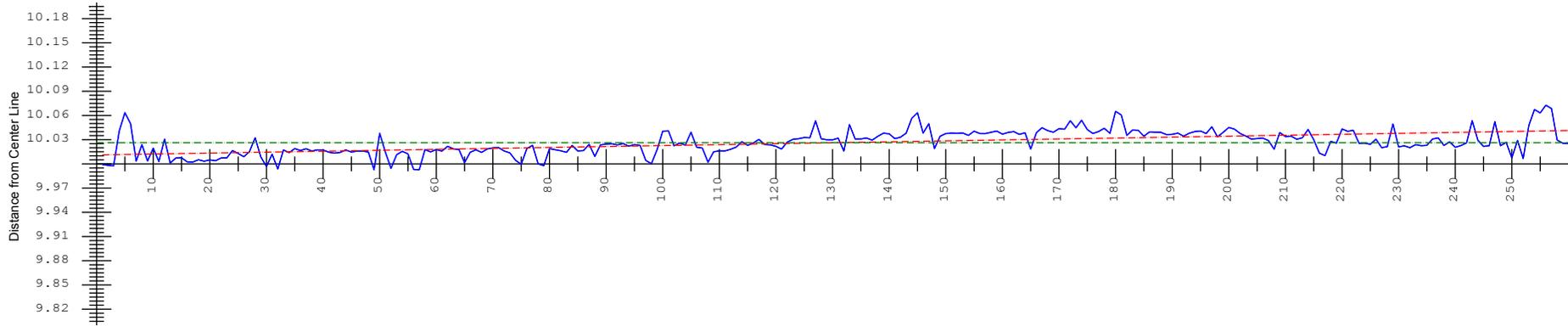


**HGVPU - Pole Tip Angles**

<b>Nominal Gap :</b>	<b>20.000</b>	<b>US Full :</b>	<b>20.0003</b>	<b>DS Full :</b>	<b>19.9997</b>
<b>Nom. Taper :</b>	<b>0.000</b>	<b>US Wall Half :</b>	<b>9.9944</b>	<b>DS Wall Half :</b>	<b>9.9952</b>
		<b>US Aisle Half :</b>	<b>9.9955</b>	<b>DS Aisle Half :</b>	<b>9.9945</b>

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<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>

Aisle Pole Mean = 10.026      Aisle Pole Min. = 9.993      Aisle Pole Max. = 10.073      Reg. Line Ang. = 0.009



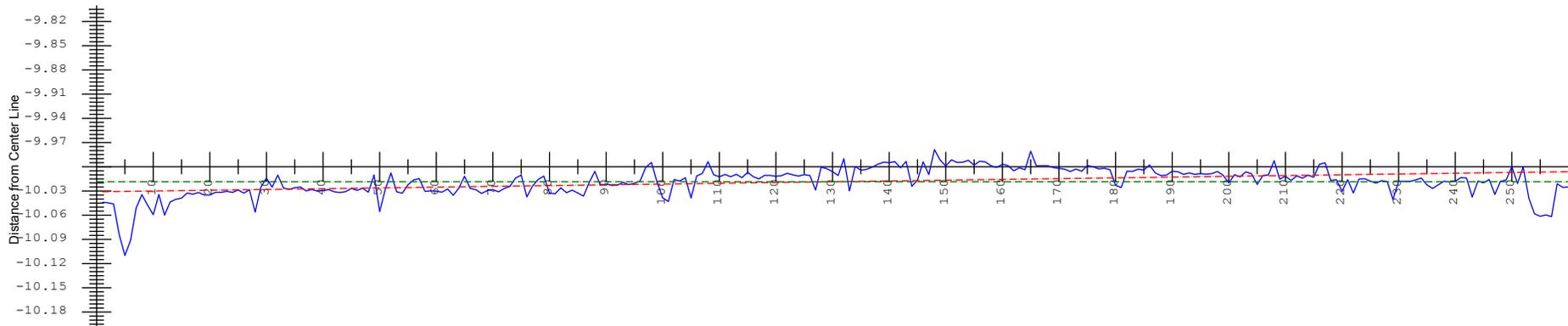
### Aisle Pole Tips at Nom. Beam Height

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

Pole Tip Num. ----->

### Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 19.957



Wall Pole Mean = -10.018      Wall Pole Min. = -10.110      Wall Pole Max. = -9.979      Reg. Line Ang. = 0.007

### Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Location from Girder Centerline

<b>Nominal Gap :</b>	<b>20.000</b>	<b>US Full :</b>	<b>20.0003</b>	<b>DS Full :</b>	<b>19.9997</b>
<b>Nom. Taper :</b>	<b>0.000</b>	<b>US Wall Half :</b>	<b>9.9944</b>	<b>DS Wall Half :</b>	<b>9.9952</b>
		<b>US Aisle Half :</b>	<b>9.9955</b>	<b>DS Aisle Half :</b>	<b>9.9945</b>

<b>S/N</b>	<b>: HXU_005</b>
<b>Date</b>	<b>: 14-AUG-2019</b>
<b>Data Set</b>	<b>: 0002</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>

**Values Calculated from Regression Line End Points**

<b>Dimension</b>	<b>X Value</b>	<b>Y Value</b>	<b>Z Value</b>	<b>Calc. Value</b>
<b>US Aisle Pole Tip(1)</b>	<b>10.011</b>	<b>0.000</b>	<b>8.750</b>	
<b>US Wall Pole Tip(1)</b>	<b>-10.031</b>	<b>0.000</b>	<b>8.750</b>	
<b>US Sym. Pt.</b>	<b>-0.010</b>			
<b>US Gap</b>				<b>20.042</b>
<b>DS Aisle Pole Tip(260)</b>	<b>10.041</b>	<b>0.000</b>	<b>3375.750</b>	
<b>DS Wall Pole Tip(260)</b>	<b>-10.006</b>	<b>0.000</b>	<b>3375.750</b>	
<b>DS Sym. Pt.</b>	<b>0.018</b>			
<b>DS Gap</b>				<b>20.047</b>
<b>Taper</b>				<b>0.005</b>

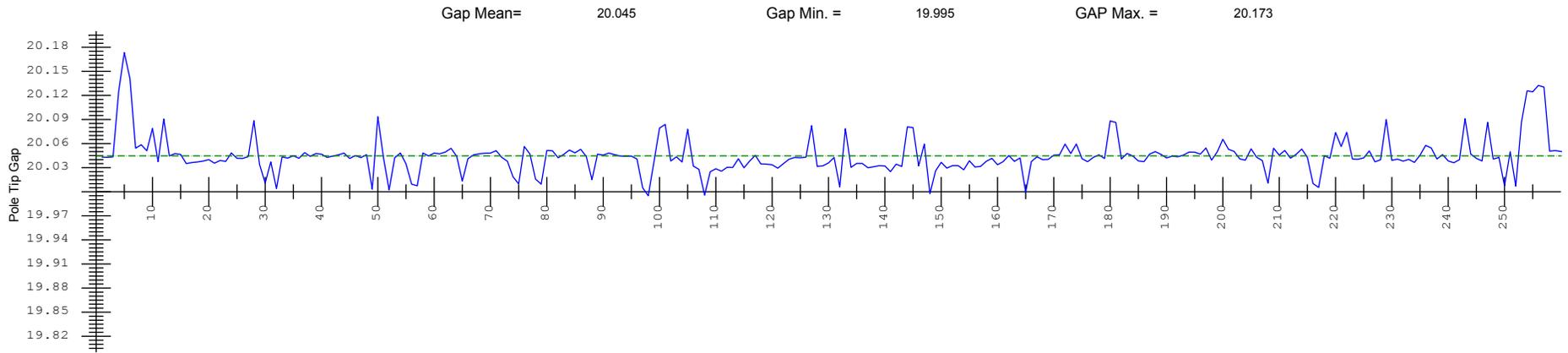
Dimensions in MM



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

<b>Nominal Gap :</b>	<b>20.000</b>	<b>US Full :</b>	<b>20.0003</b>	<b>DS Full :</b>	<b>19.9997</b>
<b>Nom. Taper :</b>	<b>0.000</b>	<b>US Wall Half :</b>	<b>9.9944</b>	<b>DS Wall Half :</b>	<b>9.9952</b>
		<b>US Aisle Half :</b>	<b>9.9955</b>	<b>DS Aisle Half :</b>	<b>9.9945</b>

<b>S/N</b>	<b>: HXU_005</b>
<b>Date</b>	<b>: 14-AUG-2019</b>
<b>Data Set</b>	<b>: 0002</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>

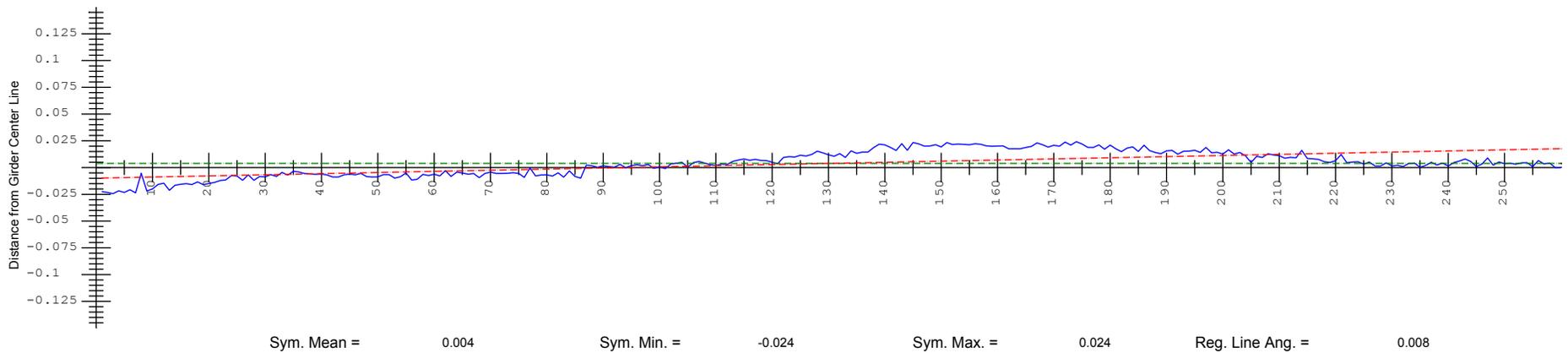


### Pole Tip Gap at Nom. Beam Height

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

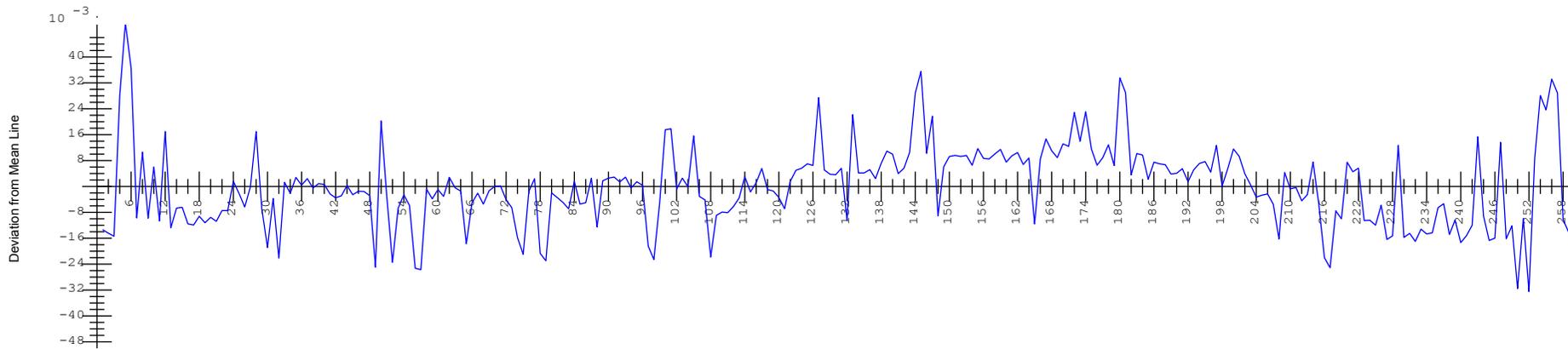
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Gap and Symmetry Point Location

<b>Nominal Gap :</b>	<b>20.000</b>	<b>US Full :</b>	<b>20.0003</b>	<b>DS Full :</b>	<b>19.9997</b>
<b>Nom. Taper :</b>	<b>0.000</b>	<b>US Wall Half :</b>	<b>9.9944</b>	<b>DS Wall Half :</b>	<b>9.9952</b>
		<b>US Aisle Half :</b>	<b>9.9955</b>	<b>DS Aisle Half :</b>	<b>9.9945</b>

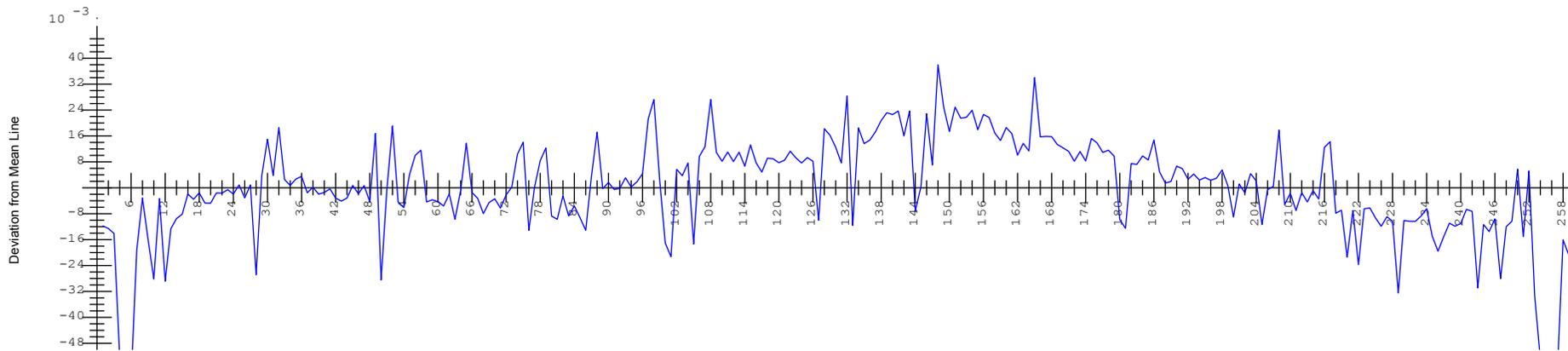
<b>S/N</b>	<b>: HXU_005</b>
<b>Date</b>	<b>: 14-AUG-2019</b>
<b>Data Set</b>	<b>: 0002</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>



### Aisle Pole Tips

Pole Tip Num. ----->

### 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 :** 20.000  
**Nom. Taper :** 0.000

<b>US Full :</b>	<b>20.0003</b>	<b>DS Full :</b>	<b>19.9997</b>
<b>US Wall Half :</b>	<b>9.9944</b>	<b>DS Wall Half :</b>	<b>9.9952</b>
<b>US Aisle Half :</b>	<b>9.9955</b>	<b>DS Aisle Half :</b>	<b>9.9945</b>

<b>S/N</b>	<b>: HXU_005</b>
<b>Date</b>	<b>: 14-AUG-2019</b>
<b>Data Set</b>	<b>: 0002</b>
<b>Run</b>	<b>: FINAL</b>
<b>Cam Pos.</b>	<b>: B</b>