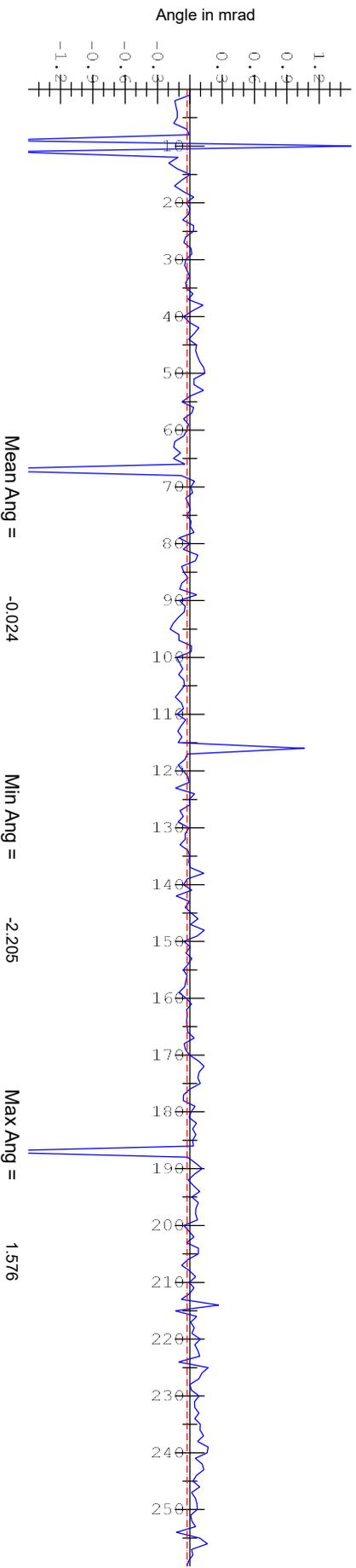


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



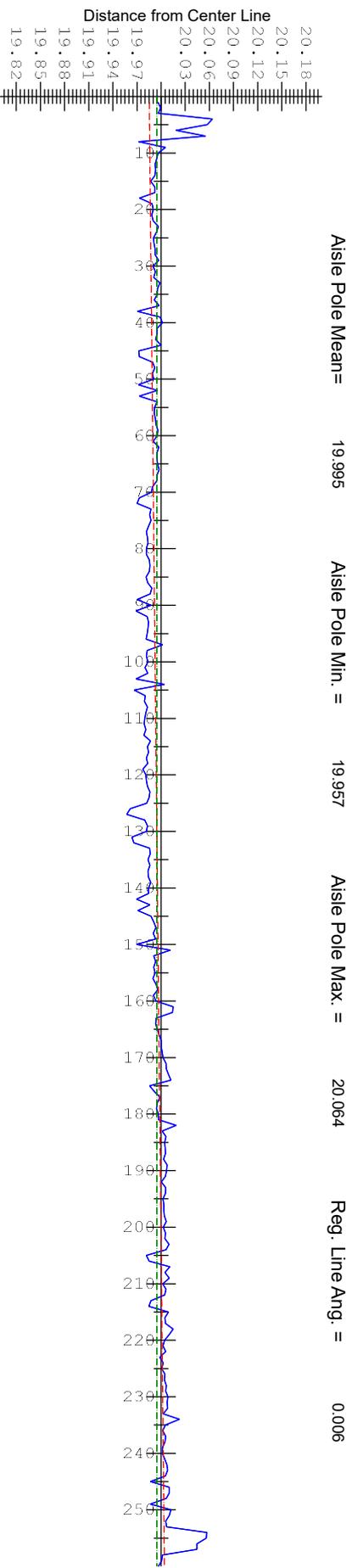
Dimensions in MM, Angles in Milliradians

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## HGVPV - Pole Tip Angles

Nominal Gap :	40.000	US Full :	40.0001	DS Full :	40.0004
Nom. Taper :	0.000	US Wall Half :	19.9936	DS Wall Half :	19.9922
		US Aisle Half :	19.9926	DS Aisle Half :	19.9931

S/N	: HXU_011
Date	: 01-JUL-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



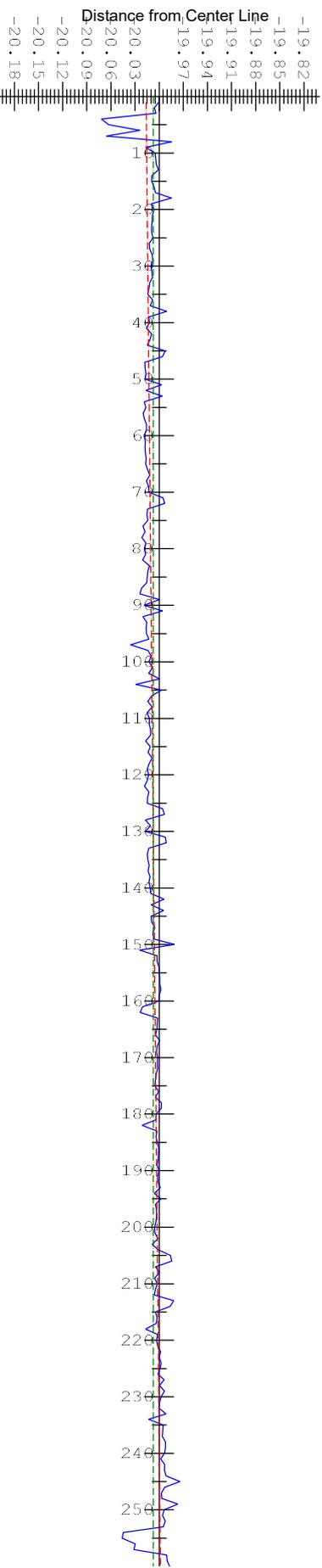
Pole Tip Num. ----->

### Aisle Pole Tips at Nom. Beam Height

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

### Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 39.915



### Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

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NATIONAL ACCELERATOR LABORATORY  
METROLOGY

## HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap : 40.000      US Full : 40.0001      DS Full : 40.0004

Nom. Taper : 0.000      US Wall Half : 19.9936      DS Wall Half : 19.9922

US Aisle Half : 19.9926      DS Aisle Half : 19.9931

S/N : HXU\_011  
 Date : 01-JUL-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)	19.985	0.000	8.750	
US Wall Pole Tip(1)	-20.016	0.000	8.750	
US Sym. Pt.	-0.015			
US Gap				40.001
DS Aisle Pole Tip(260)	20.004	0.000	3375.750	
DS Wall Pole Tip(260)	-19.998	0.000	3375.750	
DS Sym. Pt.	0.003			
DS Gap				40.003
Taper				0.001

Dimensions in MM

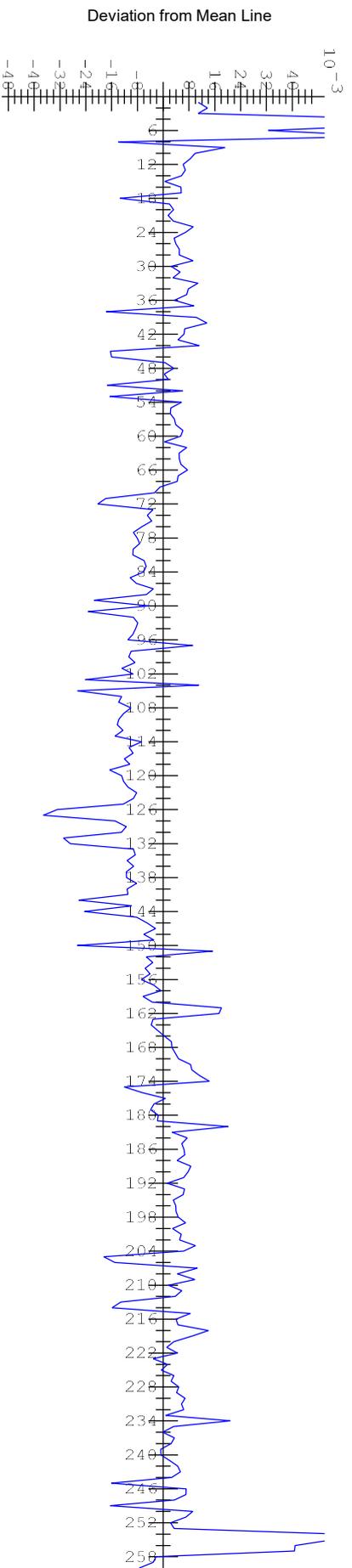


**HGVPU - Gap Calc. from Regression Line End Points**

Nominal Gap :	40.000	US Full :	40.0001	DS Full :	40.0004
Norm. Taper :	0.000	US Wall Half :	19.9936	DS Wall Half :	19.9922
		US Aisle Half :	19.9926	DS Aisle Half :	19.9931

S/N	: HXU_011
Date	: 01-JUL-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

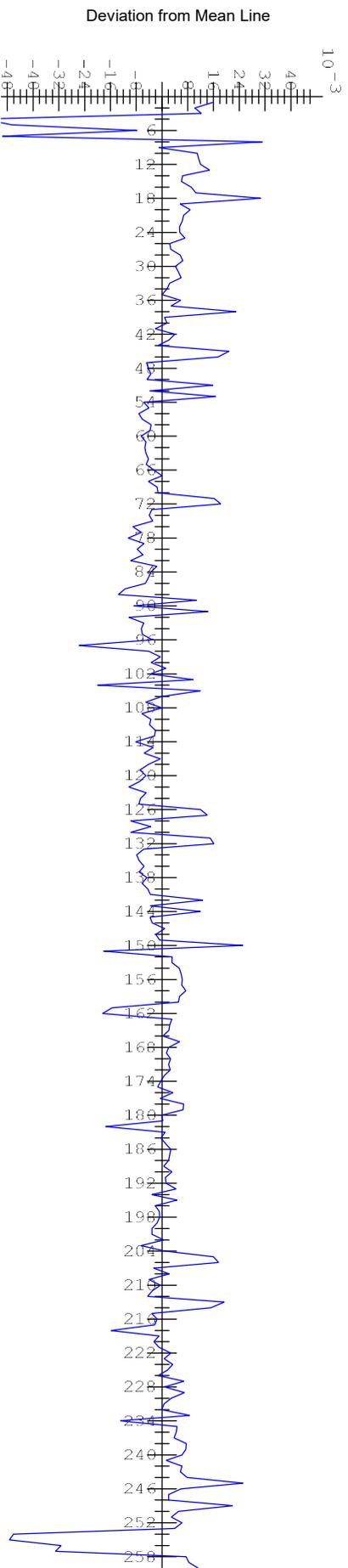




### Aisle Pole Tips

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 :	40.000	US Full :	40.0001	DS Full :	40.0004
Nom. Taper :	0.000	US Wall Half :	19.9936	DS Wall Half :	19.9922
		US Aisle Half :	19.9926	DS Aisle Half :	19.9931

S/N	: HXU_011
Date	: 01-JUL-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B