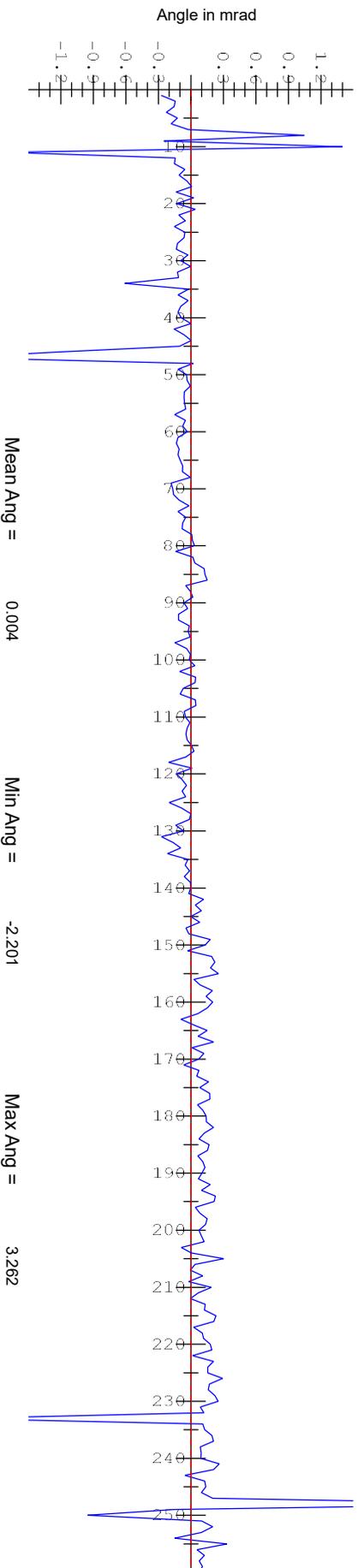


### Included Angle Between Pole Tips

Pole Tip Num. ----->

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



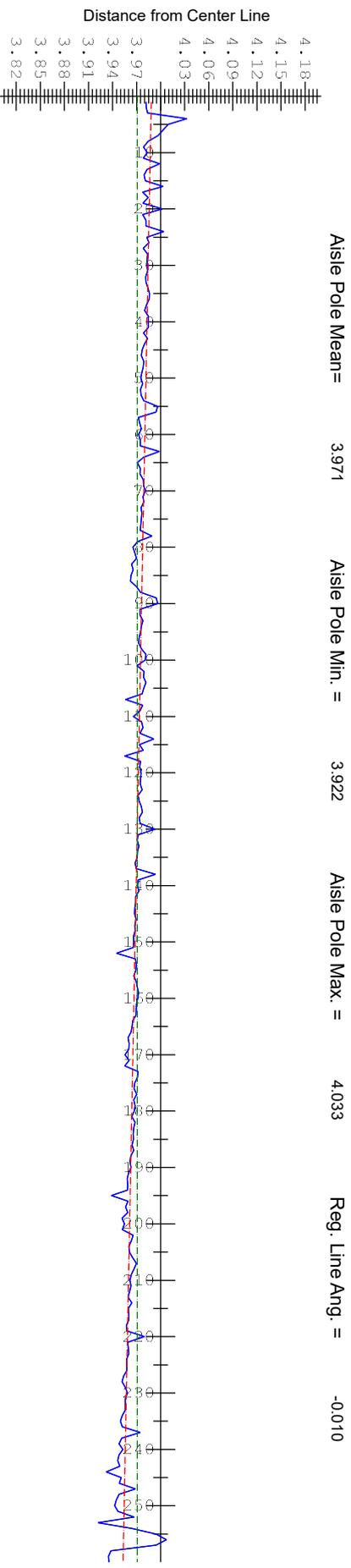
Dimensions in MM, Angles in Milliradians

**SLAC**  
NATIONAL ACCELERATOR LABORATORY  
METROLOGY

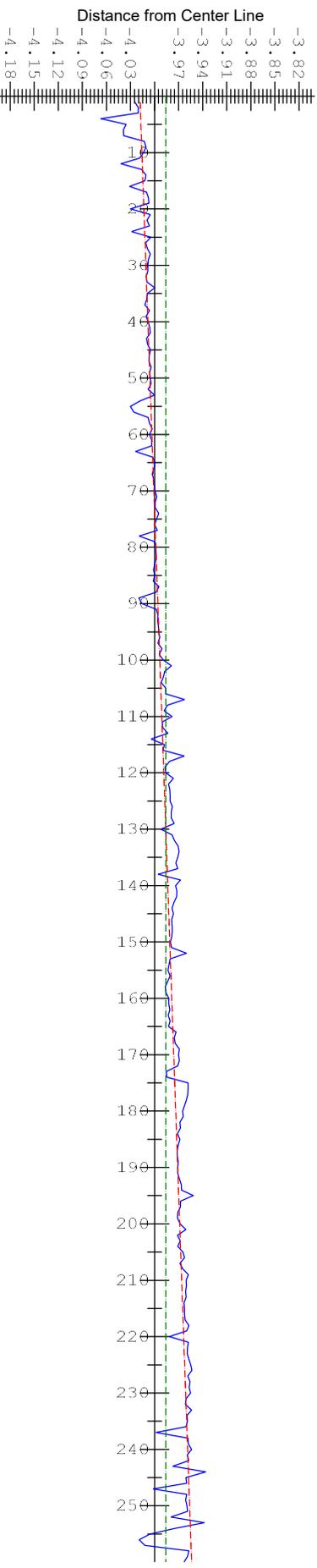
## HGVPU - Pole Tip Angles

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0025	DS Wall Half :	3.9517
		US Aisle Half :	4.0021	DS Aisle Half :	3.9532

S/N	: HXU 012
Date	: 11-MAR-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 = 7.844



**Wall Pole Tips at Nom. Beam Height**  
 Dimensions in MM, Angles in Milliradians

**SLAC**  
NATIONAL ACCELERATOR LABORATORY  
METROLOGY

**HGVPU - Pole Tip Location from Girder Centerline**

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0025	DS Wall Half :	3.9517
		US Aisle Half :	4.0021	DS Aisle Half :	3.9532

S/N	: HXU 012
Date	: 11-MAR-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)	3.988	0.000	8.750	
US Wall Pole Tip(1)	-4.018	0.000	8.750	
US Sym. Pt.	-0.015			
US Gap				8.006
DS Aisle Pole Tip(260)	3.953	0.000	3375.750	
DS Wall Pole Tip(260)	-3.954	0.000	3375.750	
DS Sym. Pt.	0.000			
DS Gap				7.907
Taper				-0.099

Dimensions in MM



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

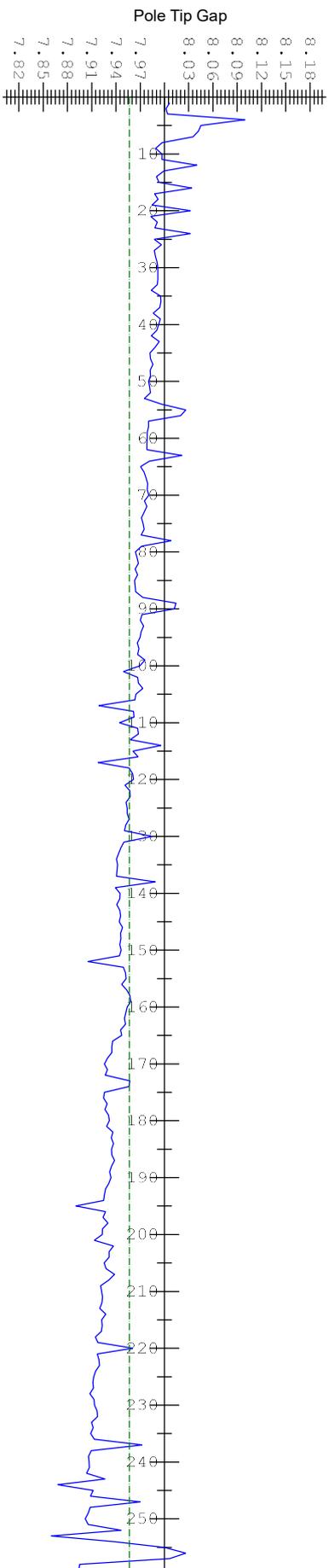
Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0025	DS Wall Half :	3.9517
		US Aisle Half :	4.0021	DS Aisle Half :	3.9532

S/N	: HXU_012
Date	: 11-MAR-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Gap Mean = 7.957

Gap Min. = 7.860

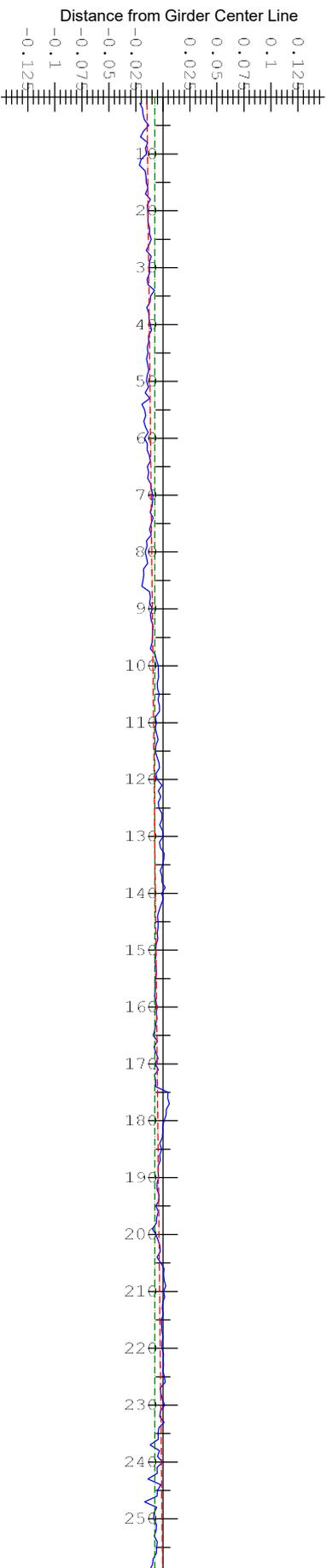
Gap Max. = 8.100



### Pole Tip Gap at Nom. Beam Height

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

### Pole Tip Symmetry Point at Nom. Beam Height



Sym. Mean =

-0.008

Sym. Min. =

-0.022

Sym. Max. =

0.006

Reg. Line Ang. =

0.004

### Girder centerline in reference to Pointed Magnets

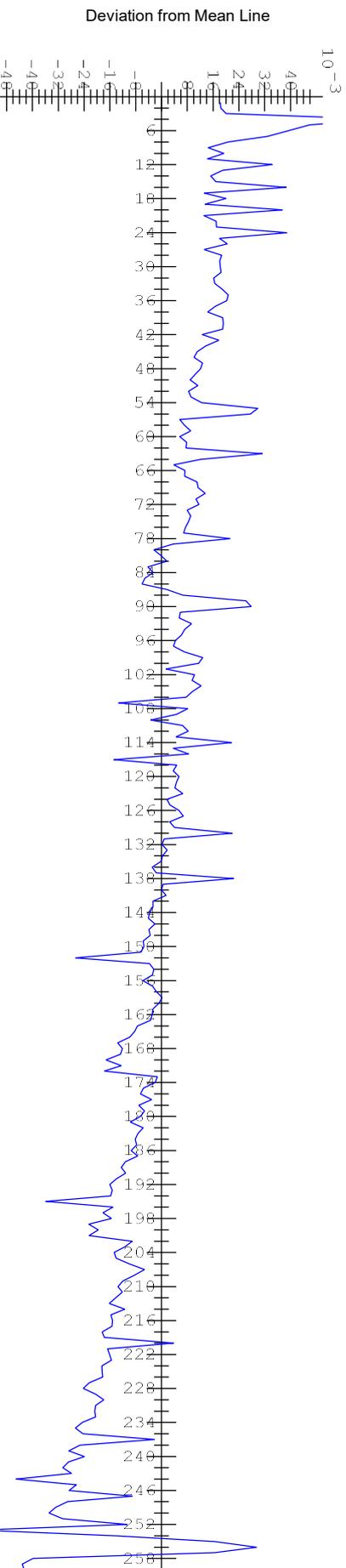
Dimensions in MM, Angles in Milliradians



## HGVPU - Pole Tip Gap and Symmetry Point Location

Nominal Gap :	8.000	US Full :	7.9996	DS Full :	7.8997
US Wall Half :	4.0025	US Aisle Half :	4.0021	DS Wall Half :	3.9517
Nom. Taper :	-0.100	US Aisle Half :	4.0021	DS Aisle Half :	3.9532

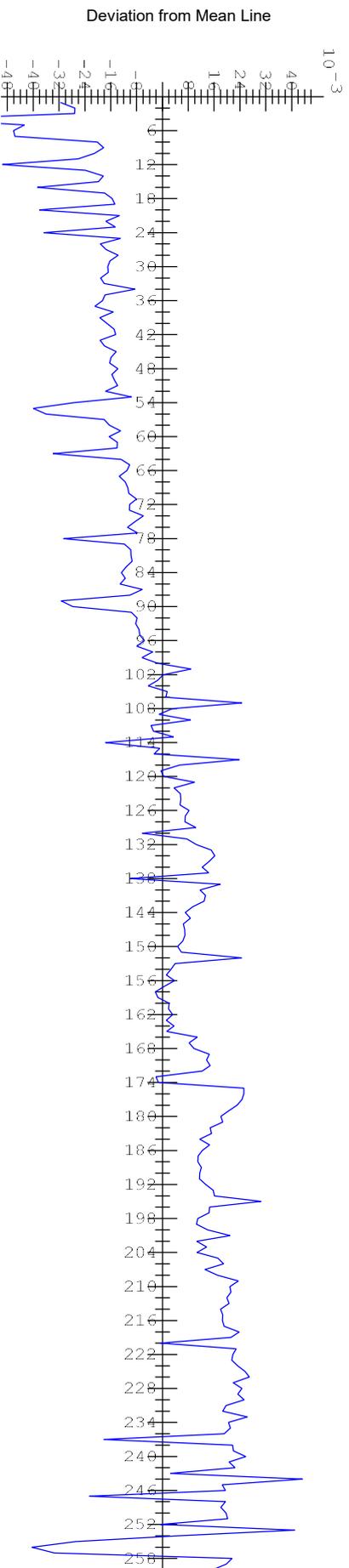
S/N	: HXU_012
Date	: 11-MAR-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



### 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 :	8.000	US Full :	7.9996	DS Full :	7.8997
Nom. Taper :	-0.100	US Wall Half :	4.0025	DS Wall Half :	3.9517
		US Aisle Half :	4.0021	DS Aisle Half :	3.9532

S/N	: HXU_012
Date	: 11-MAR-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B