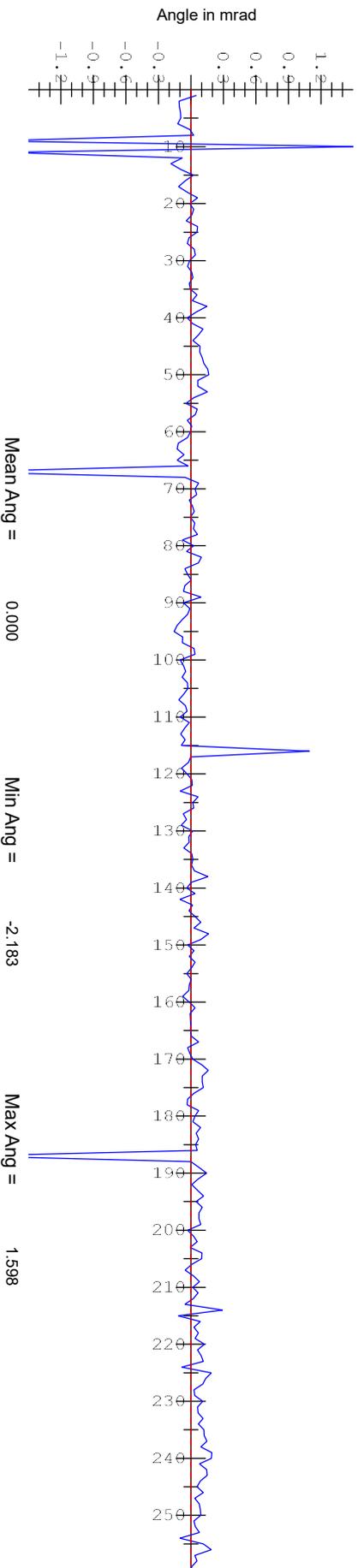


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



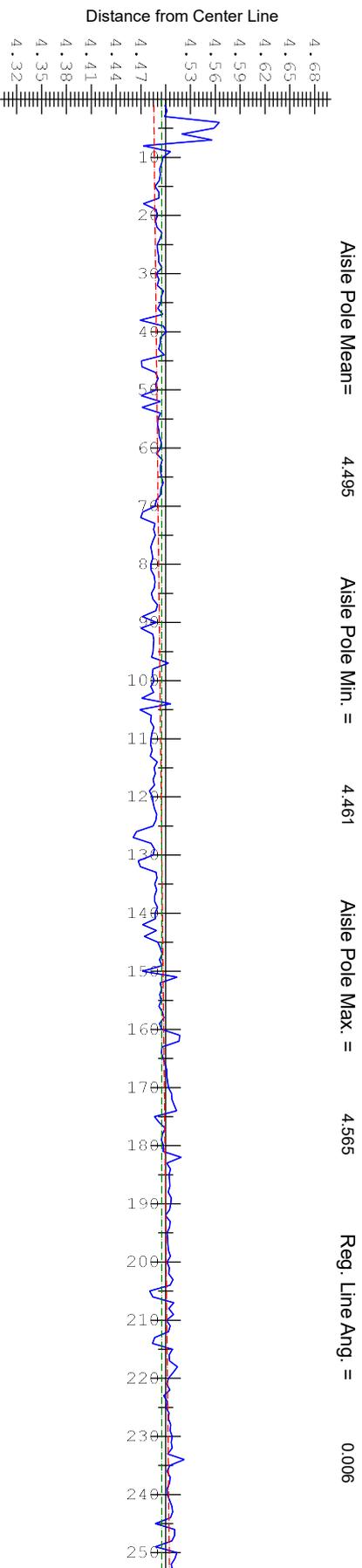
Dimensions in MM, Angles in Milliradians

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Angles

Nominal Gap :	9.000	US Full :	9.0005	DS Full :	9.0001
Nom. Taper :	0.000	US Wall Half :	4.5006	DS Wall Half :	4.4987
		US Aisle Half :	4.4994	DS Aisle Half :	4.4998

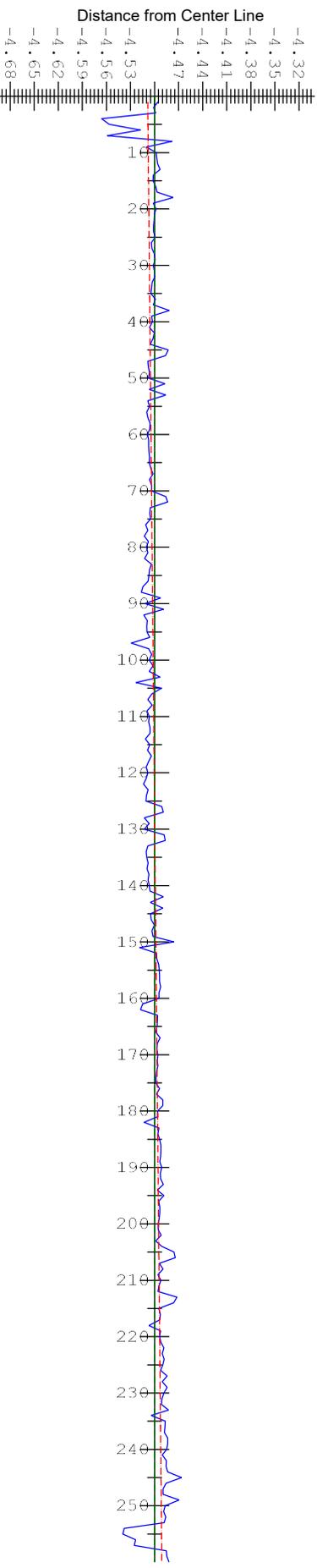
S/N	: HXU_011
Date	: 01-JUL-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



Aisle Pole Tips at Nom. Beam Height

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

Minimum Clearance Gap = 8.921



Wall Pole Tips at Nom. Beam Height

Dimensions in MM, Angles in Milliradians

SLAC
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METROLOGY

HGVPU - Pole Tip Location from Girder Centerline

Nominal Gap :	9.000	US Full :	9.0005	DS Full :	9.0001
Nom. Taper :	0.000	US Wall Half :	4.5006	DS Wall Half :	4.4987
		US Aisle Half :	4.4994	DS Aisle Half :	4.4998

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)	4.486	0.000	8.750	
US Wall Pole Tip(1)	-4.509	0.000	8.750	
US Sym. Pt.	-0.011			
US Gap				8.994
DS Aisle Pole Tip(260)	4.505	0.000	3375.750	
DS Wall Pole Tip(260)	-4.491	0.000	3375.750	
DS Sym. Pt.	0.007			
DS Gap				8.996
Taper				0.002

Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

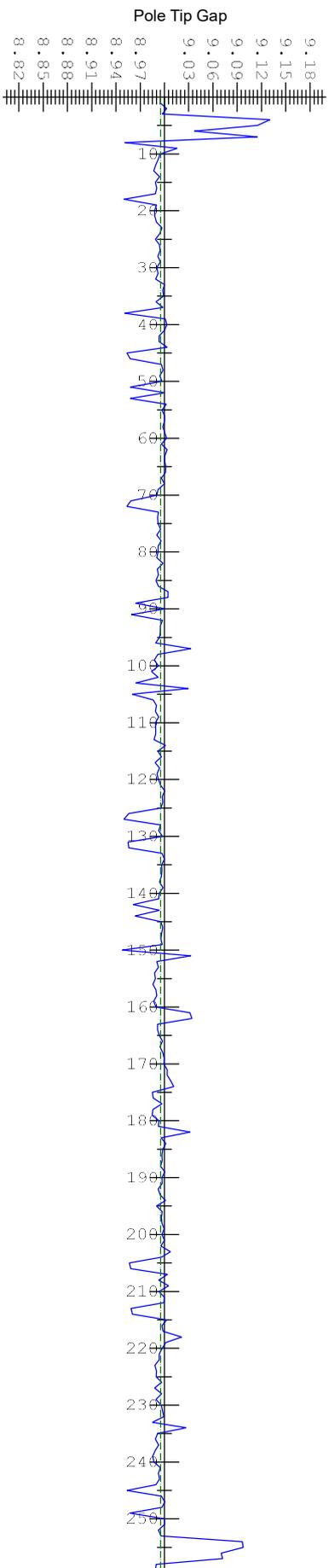
Nominal Gap :	9.000	US Full :	9.0005	DS Full :	9.0001
Nom. Taper :	0.000	US Wall Half :	4.5006	DS Wall Half :	4.4987
		US Aisle Half :	4.4994	DS Aisle Half :	4.4998

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

Gap Mean = 8.995

Gap Min. = 8.948

Gap Max. = 9.131

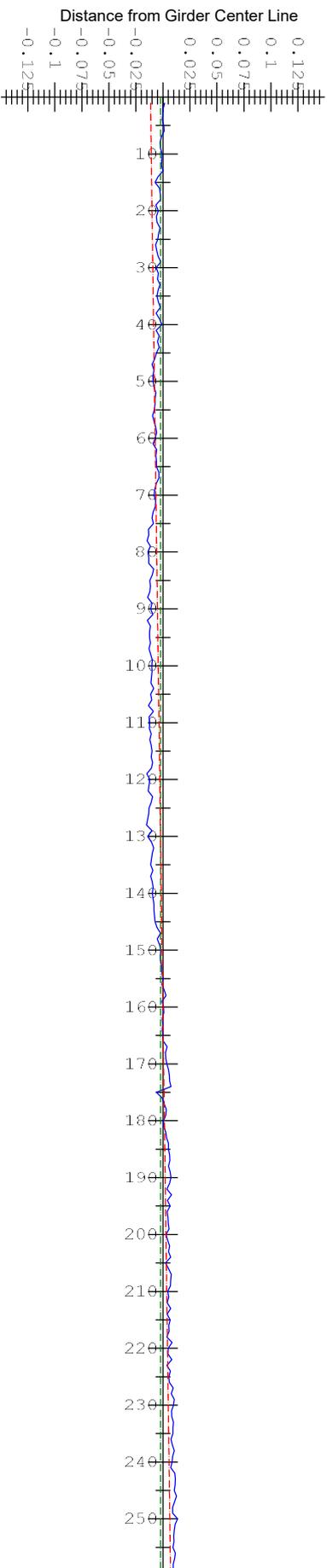


Pole Tip Gap at Nom. Beam Height

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

Pole Tip Num. ----->

Pole Tip Symmetry Point at Nom. Beam Height



Sym. Mean =

-0.002

Sym. Min. =

-0.015

Sym. Max. =

0.013

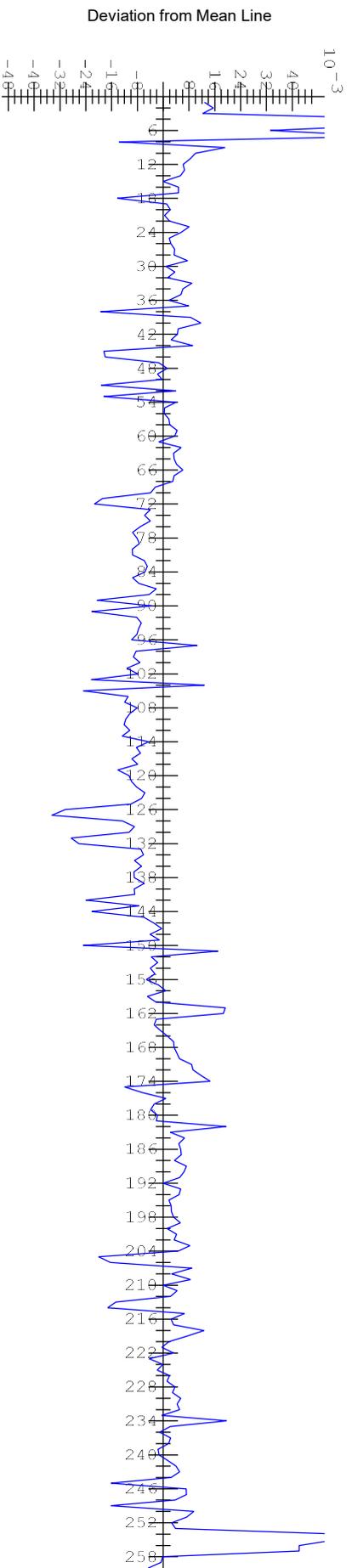
Reg. Line Ang. =

0.006

Girder centerline in reference to Pointed Magnets

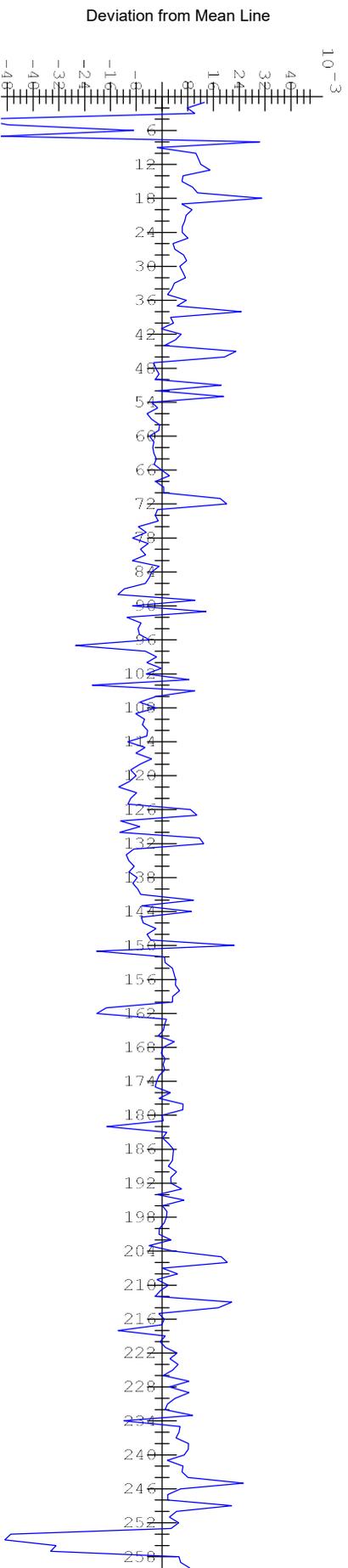
Dimensions in MM, Angles in Milliradians

	HGVPU - Pole Tip Gap and Symmetry Point Location				
	US Full :	9.0005	DS Full :	9.0001	
Nominal Gap :	9.000	US Wall Half :	4.5006	DS Wall Half :	4.4987
Nom. Taper :	0.000	US Aisle Half :	4.4994	DS Aisle Half :	4.4998
S/N	: HXU_011				
Date	: 01-JUL-2020				
Data Set	: 0001				
Run	: FINAL				
Cam Pos.	: B				



Aisle Pole Tips

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 :	9.000	US Full :	9.0005	DS Full :	9.0001
Nom. Taper :	0.000	US Wall Half :	4.5006	DS Wall Half :	4.4987
		US Aisle Half :	4.4994	DS Aisle Half :	4.4998

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