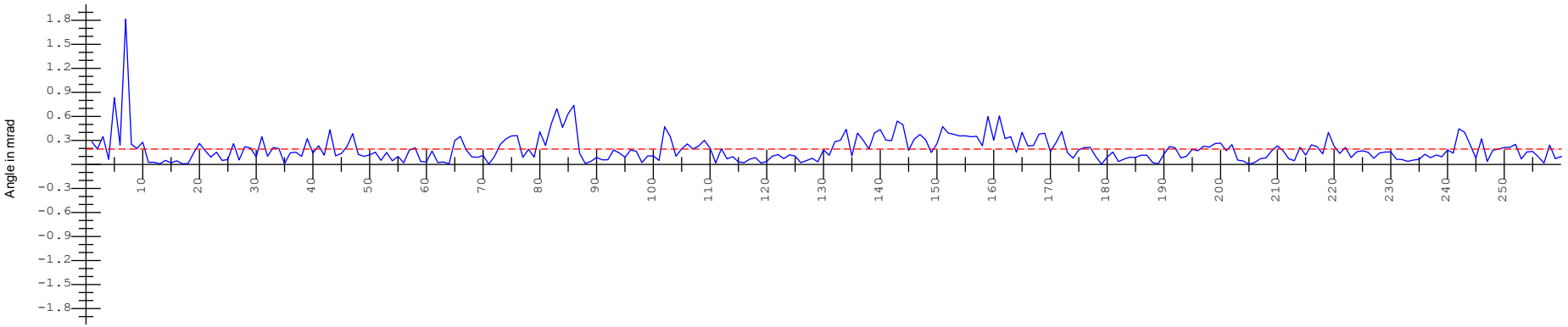
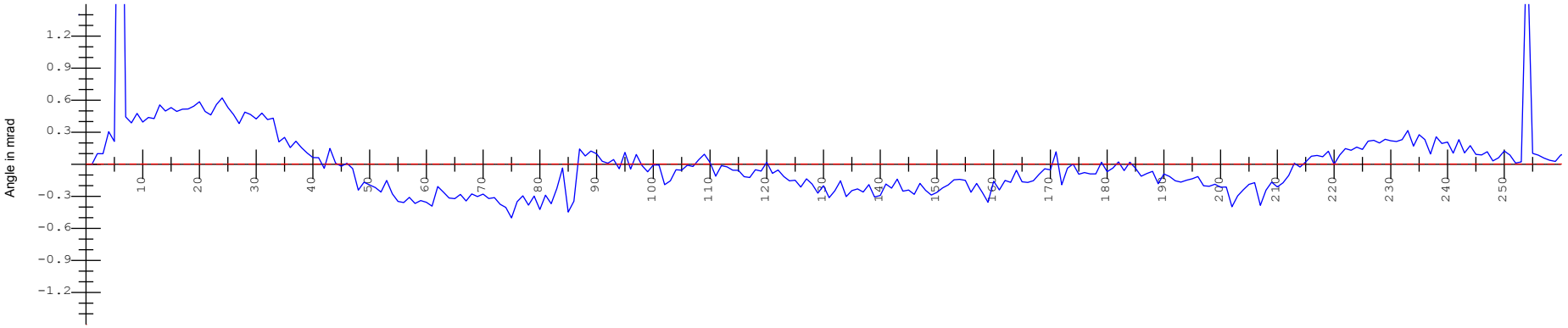
Mean Ang = 0.192 Min Ang = 0.003 Max Ang = 1.814



Included Angle Between Pole Tips

Pole Tip Num. ---------->

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



Mean Ang = 0.003 Min Ang = -0.502 Max Ang = 5.108

Dimensions in MM, Angles in Milliradians

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Angles

		US Full :	7.9996	DS Full :	7.8999
Nominal Gap :	8.000	US Wall Half :	4.0002	DS Wall Half :	3.9513
Nom. Taper :	-0.100	US Aisle Half :	3.9998	DS Aisle Half :	3.9569

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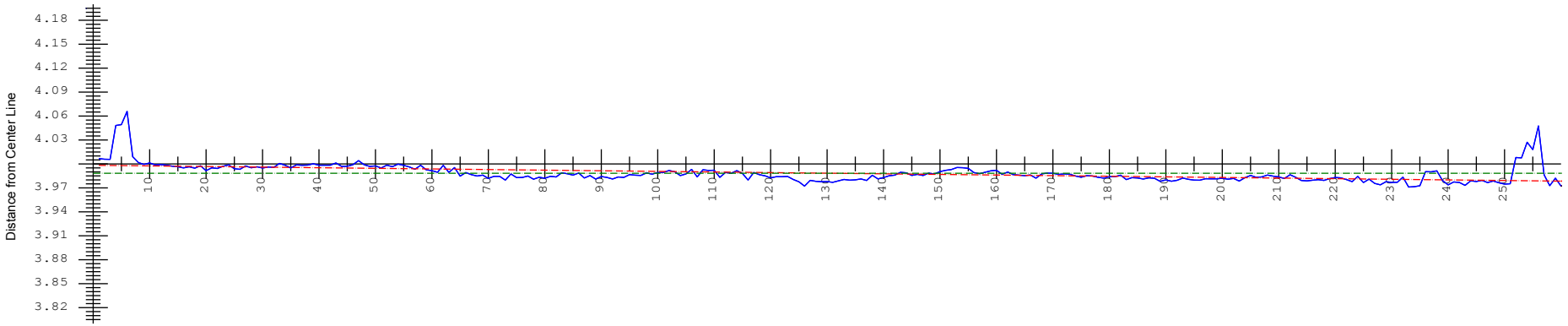
Run	: FINAL
Cam Pos.	: B

Aisle Pole Mean= 3.988 Aisle Pole Min. = 3.971 Aisle Pole Max. = 4.066 Reg. Line Ang. = -0.006



Aisle Pole Tips at Nom. Beam Height

Blue = Pole Tip points

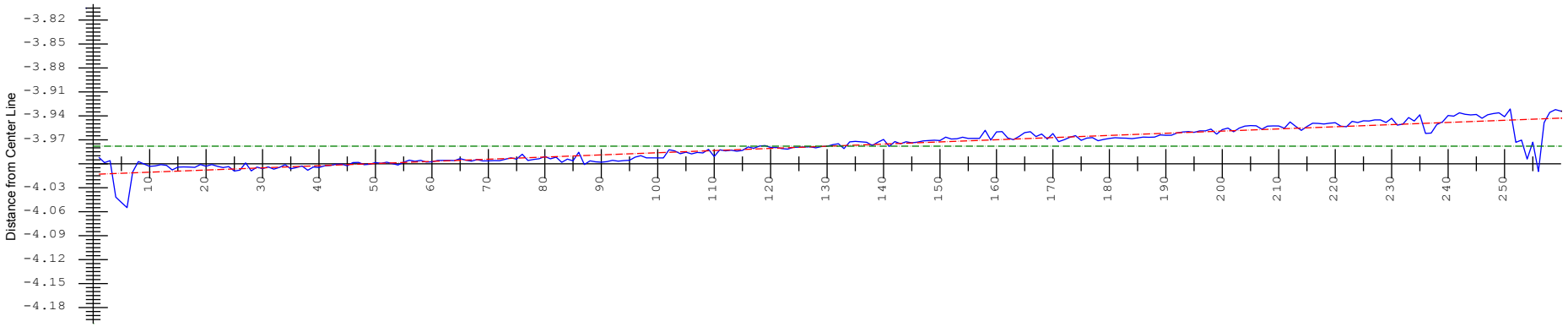
Green = Mean line

Red = Regression line thru points

Pole Tip Num. ---------->

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 7.863



Wall Pole Mean = -3.978 Wall Pole Min. = -4.055 Wall Pole Max. = -3.931 Reg. Line Ang. = 0.021

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU -

Pole Tip Location from Girder Centerline

		US Full :	7.9996	DS Full :	7.8999
Nominal Gap :	8.000	US Wall Half :	4.0002	DS Wall Half :	3.9513
Nom. Taper :	-0.100	US Aisle Half :	3.9998	DS Aisle Half :	3.9569

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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)	3.998	0.000	8.750	
US Wall Pole Tip(1)	-4.013	0.000	8.750	
US Sym. Pt.	-0.007			
US Gap				8.011
DS Aisle Pole Tip(260)	3.978	0.000	3375.750	
DS Wall Pole Tip(260)	-3.943	0.000	3375.750	
DS Sym. Pt.	0.018			
DS Gap				7.921
Taper				-0.090

Dimensions in MM

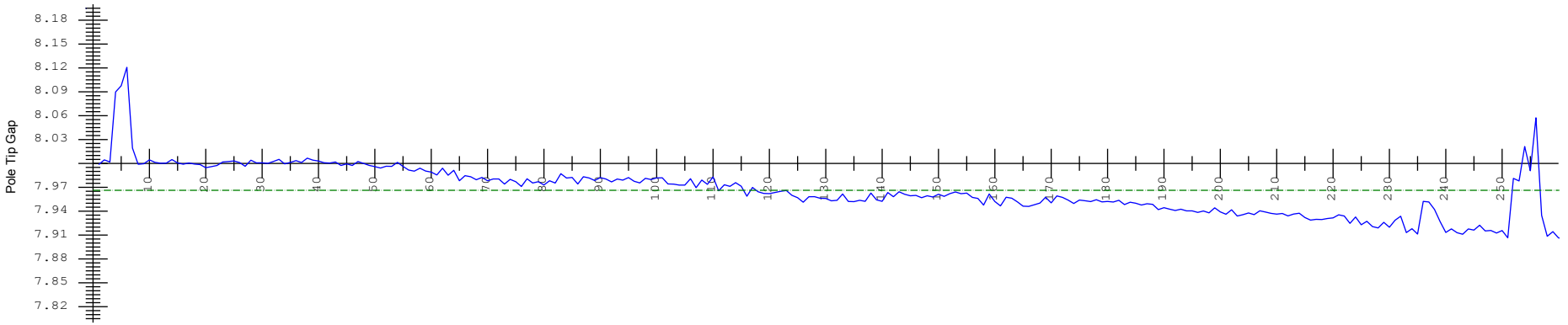
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Gap Calc. from Regression Line End Points

		US Full :	7.9996	DS Full :	7.8999
Nominal Gap :	8.000	US Wall Half :	4.0002	DS Wall Half :	3.9513
Nom. Taper :	-0.100	US Aisle Half :	3.9998	DS Aisle Half :	3.9569

S/N	: HXU_028
Date	: 23-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Gap Mean= 7.966 Gap Min. = 7.906 GAP Max. = 8.121



Pole Tip Gap at Nom. Beam Height

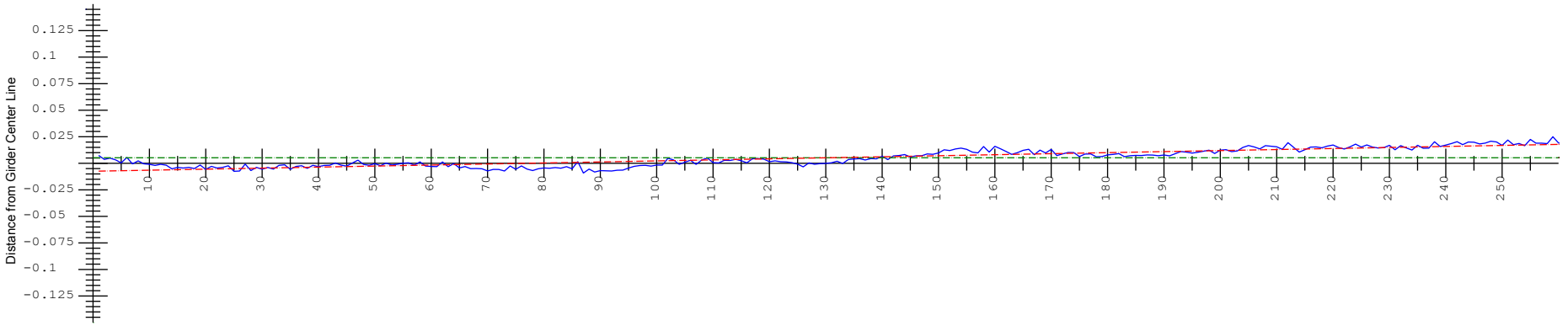
Blue = Pole Tip points

Green = Mean line

Red = Regression line thru points

Pole Tip Num. ---------->

Pole Tip Symmetery Point at Nom. Beam Height



Sym. Mean = 0.005 Sym. Min. = -0.009 Sym. Max. = 0.025 Reg. Line Ang. = 0.007

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU -

Pole Tip Gap and Symmetry Point Location

		US Full :	7.9996	DS Full :	7.8999
Nominal Gap :	8.000	US Wall Half :	4.0002	DS Wall Half :	3.9513
Nom. Taper :	-0.100	US Aisle Half :	3.9998	DS Aisle Half :	3.9569

S/N	: HXU_028
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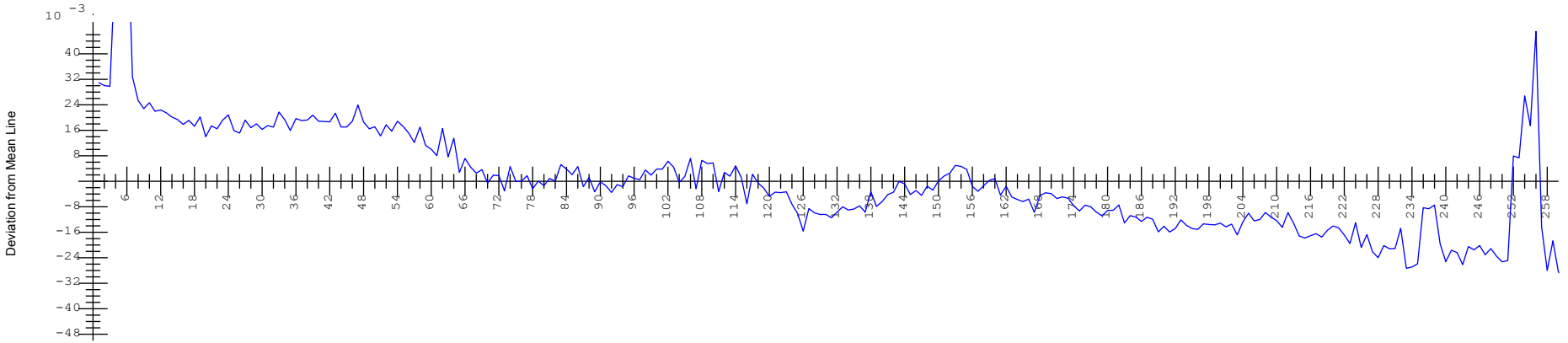
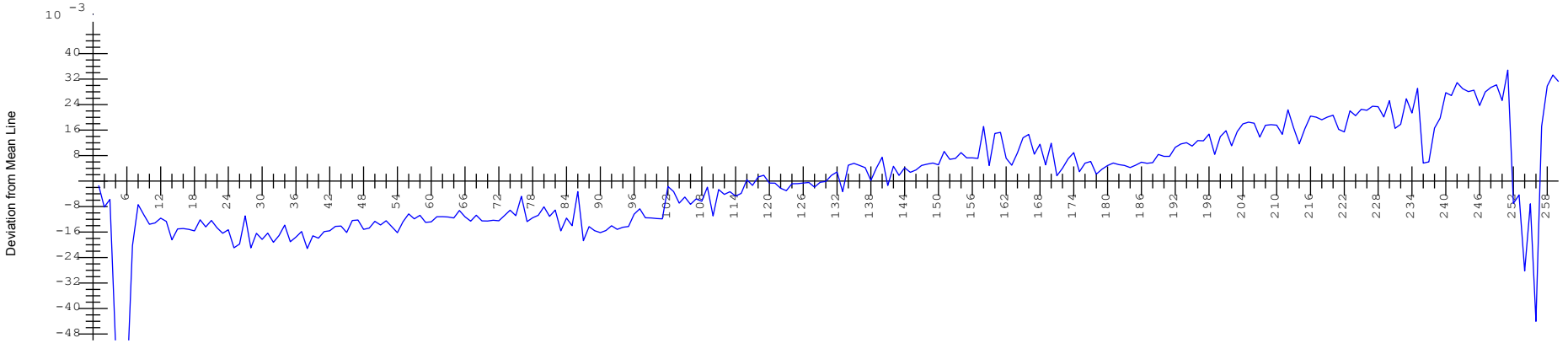
Run	: FINAL
Cam Pos.	: B



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

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU -

Pole Tip Deviation from Mean Line

		US Full :	7.9996	DS Full :	7.8999
Nominal Gap :	8.000	US Wall Half :	4.0002	DS Wall Half :	3.9513
Nom. Taper :	-0.100	US Aisle Half :	3.9998	DS Aisle Half :	3.9569

S/N	: HXU_028
Date	: 23-OCT-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B