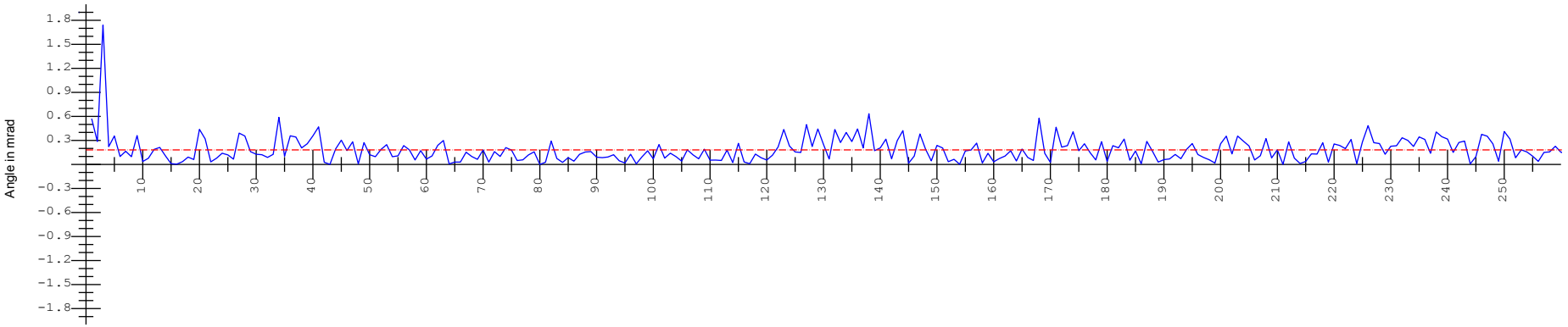
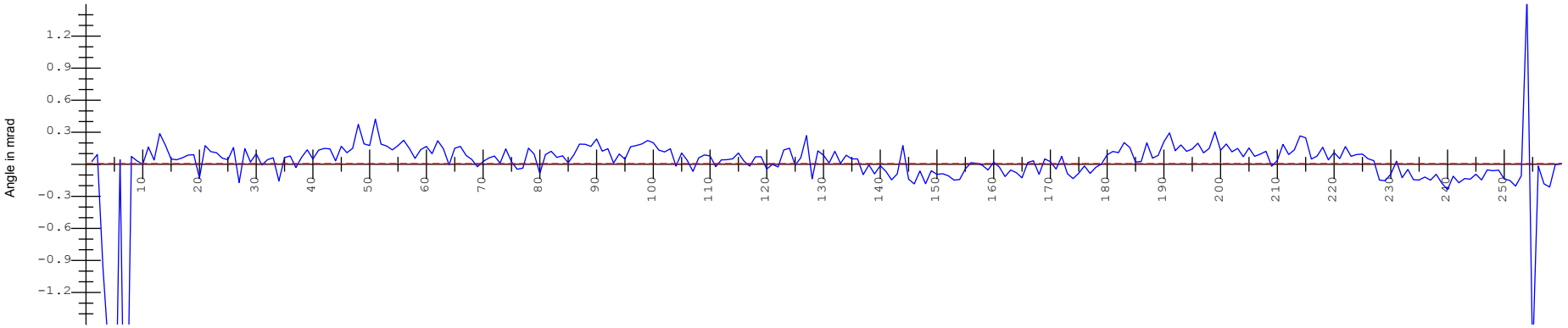
Mean Ang = 0.181 Min Ang = 0.000 Max Ang = 1.741



Included Angle Between Pole Tips

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

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



Mean Ang = 0.007 Min Ang = -3.486 Max Ang = 1.558

Dimensions in MM, Angles in Milliradians

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Angles

		US Full :	7.9995	DS Full :	8.0000
Nominal Gap :	8.000	US Wall Half :	4.0032	DS Wall Half :	4.0036
Nom. Taper :	0.000	US Aisle Half :	4.0034	DS Aisle Half :	4.0030

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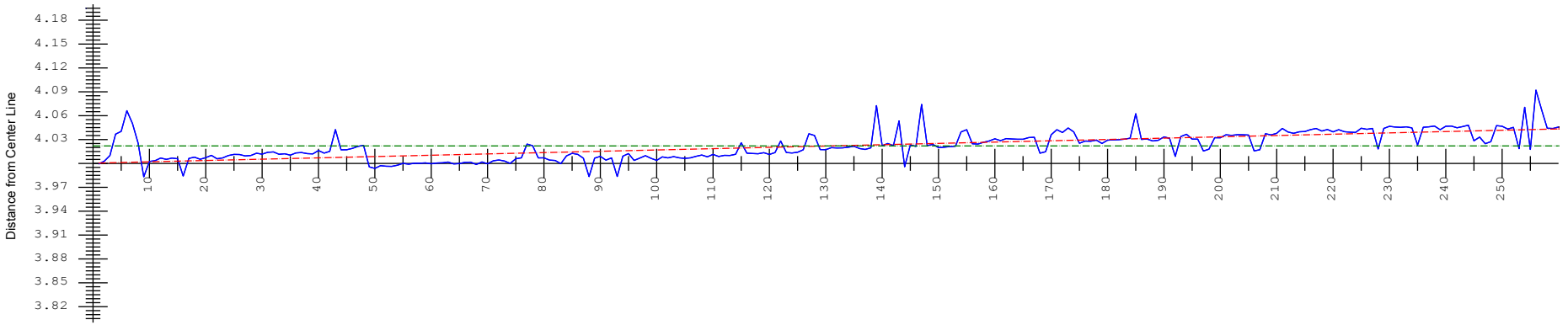
Cam Pos.	: B

Aisle Pole Mean= 4.022 Aisle Pole Min. = 3.983 Aisle Pole Max. = 4.092 Reg. Line Ang. = 0.013



Aisle Pole Tips at Nom. Beam Height

Blue = Pole Tip points

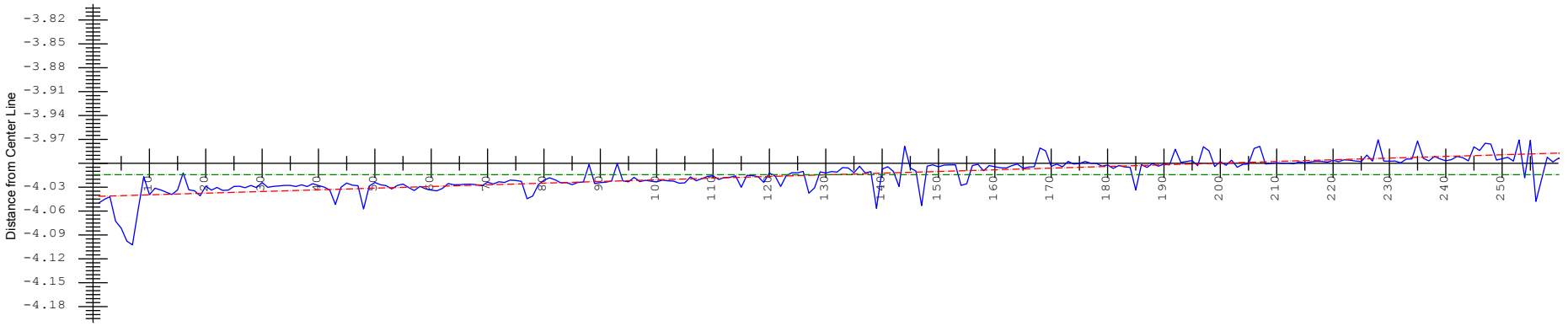
Green = Mean line

Red = Regression line thru points

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

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 7.941



Wall Pole Mean = -4.014 Wall Pole Min. = -4.103 Wall Pole Max. = -3.970 Reg. Line Ang. = 0.016

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 :	7.9995	DS Full :	8.0000
Nominal Gap :	8.000	US Wall Half :	4.0032	DS Wall Half :	4.0036
Nom. Taper :	0.000	US Aisle Half :	4.0034	DS Aisle Half :	4.0030

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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)	4.001	0.000	8.750	
US Wall Pole Tip(1)	-4.041	0.000	8.750	
US Sym. Pt.	-0.020			
US Gap				8.042
DS Aisle Pole Tip(260)	4.043	0.000	3375.750	
DS Wall Pole Tip(260)	-3.987	0.000	3375.750	
DS Sym. Pt.	0.028			
DS Gap				8.031
Taper				-0.012

Dimensions in MM

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Gap Calc. from Regression Line End Points

		US Full :	7.9995	DS Full :	8.0000
Nominal Gap :	8.000	US Wall Half :	4.0032	DS Wall Half :	4.0036
Nom. Taper :	0.000	US Aisle Half :	4.0034	DS Aisle Half :	4.0030

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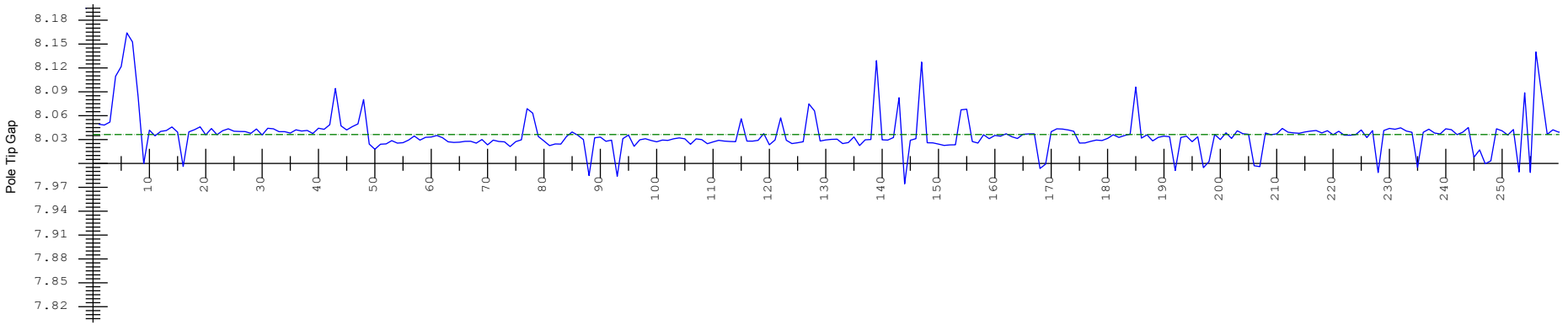
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

Gap Mean= 8.036 Gap Min. = 7.974 GAP Max. = 8.164



Pole Tip Gap at Nom. Beam Height

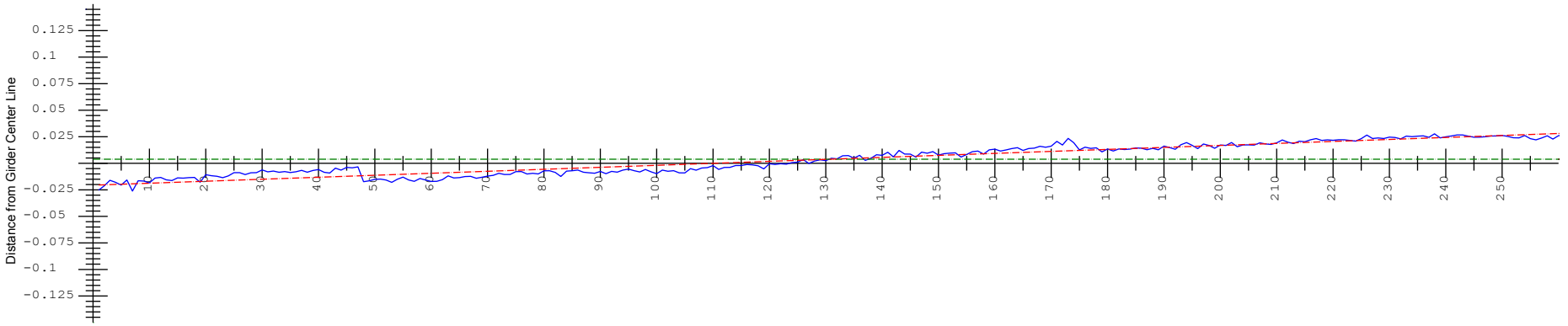
Blue = Pole Tip points

Green = Mean line

Red = Regression line thru points

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

Pole Tip Symmetery Point at Nom. Beam Height



Sym. Mean = 0.004 Sym. Min. = -0.026 Sym. Max. = 0.028 Reg. Line Ang. = 0.014

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 :	7.9995	DS Full :	8.0000
Nominal Gap :	8.000	US Wall Half :	4.0032	DS Wall Half :	4.0036
Nom. Taper :	0.000	US Aisle Half :	4.0034	DS Aisle Half :	4.0030

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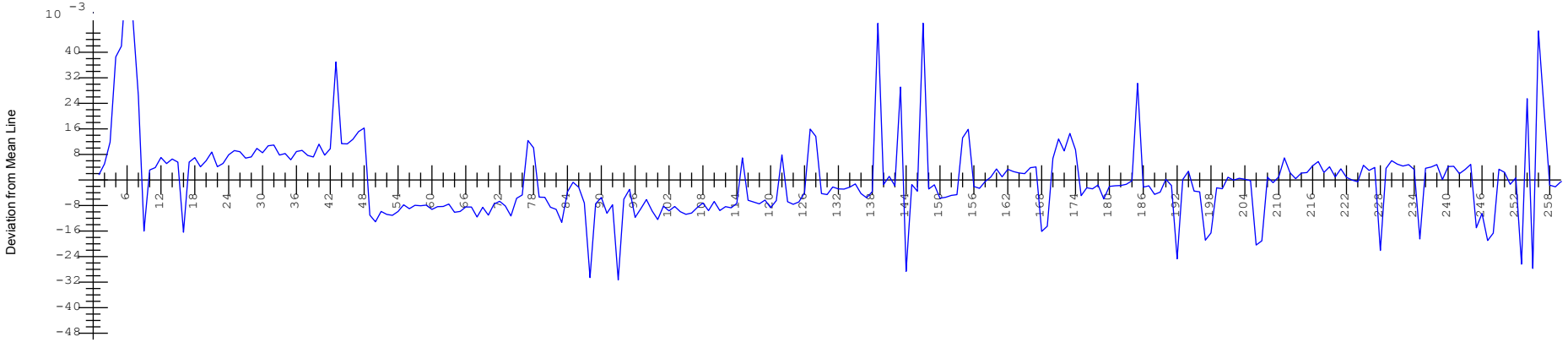
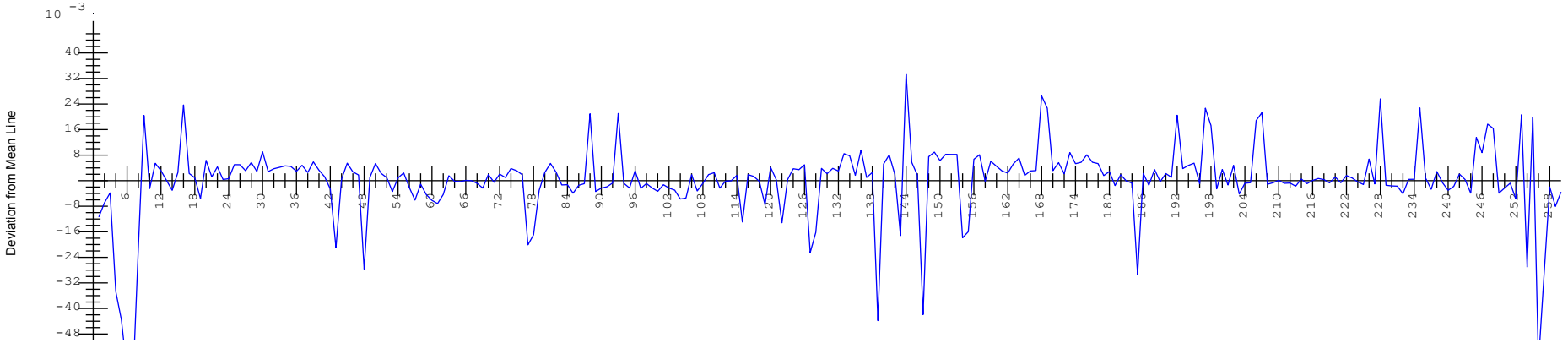
Cam Pos.	: B



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 :	7.9995	DS Full :	8.0000
Nominal Gap :	8.000	US Wall Half :	4.0032	DS Wall Half :	4.0036
Nom. Taper :	0.000	US Aisle Half :	4.0034	DS Aisle Half :	4.0030

S/N	: HXU_021
Date	: 01-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B