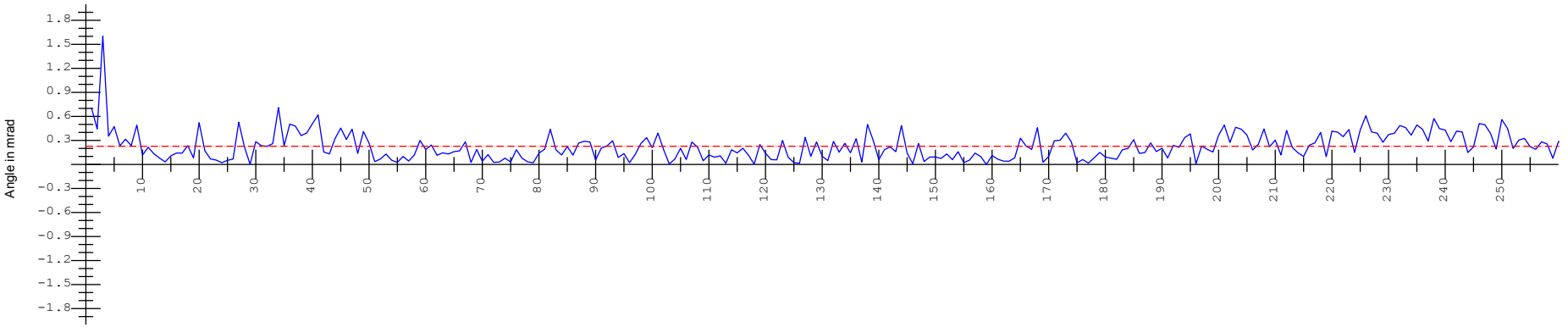
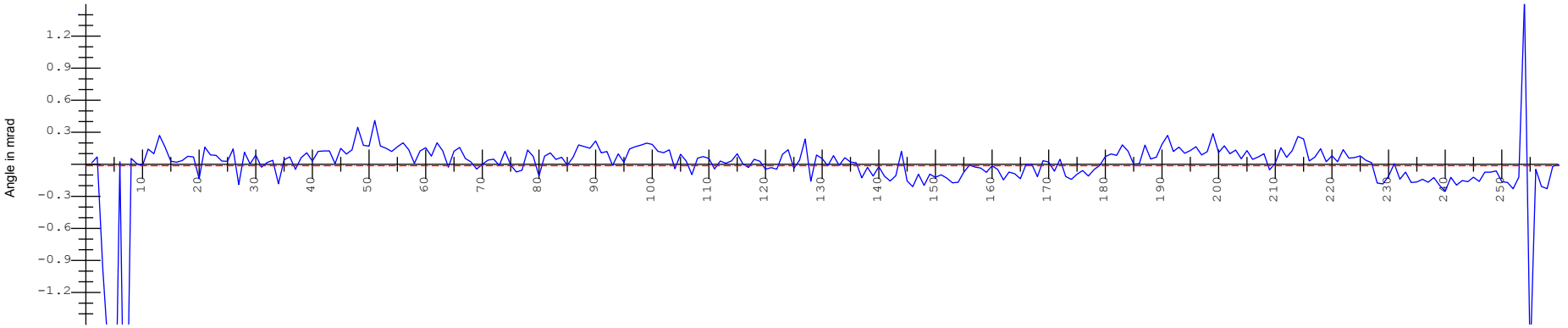
Mean Ang = 0.227 Min Ang = 0.000 Max Ang = 1.603



Included Angle Between Pole Tips

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

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



Mean Ang = -0.013 Min Ang = -3.498 Max Ang = 1.535

Dimensions in MM, Angles in Milliradians

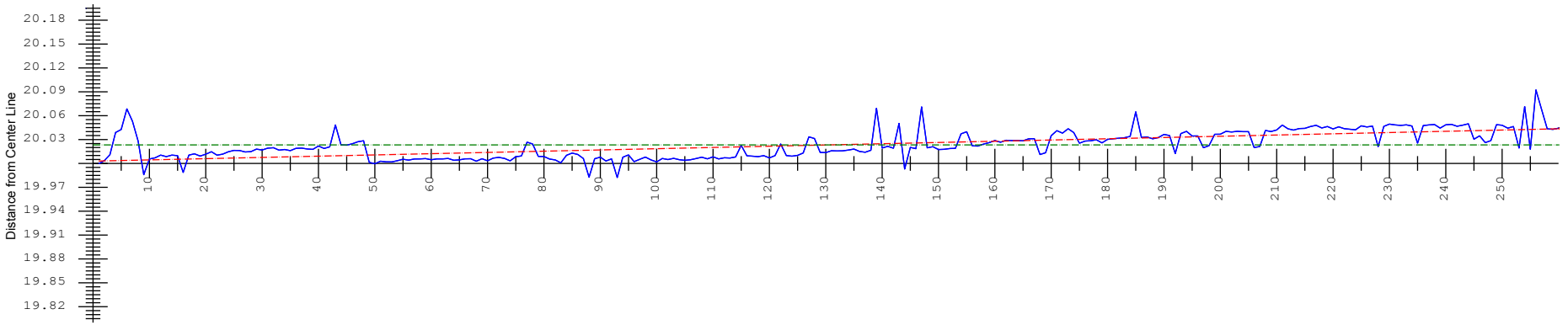
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Pole Tip Angles

		US Full :	39.9999	DS Full :	40.0000
Nominal Gap :	40.000	US Wall Half :	19.9917	DS Wall Half :	19.9918
Nom. Taper :	0.000	US Aisle Half :	19.9913	DS Aisle Half :	19.9916

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

Aisle Pole Mean= 20.023 Aisle Pole Min. = 19.982 Aisle Pole Max. = 20.092 Reg. Line Ang. = 0.012



Aisle Pole Tips at Nom. Beam Height

Blue = Pole Tip points

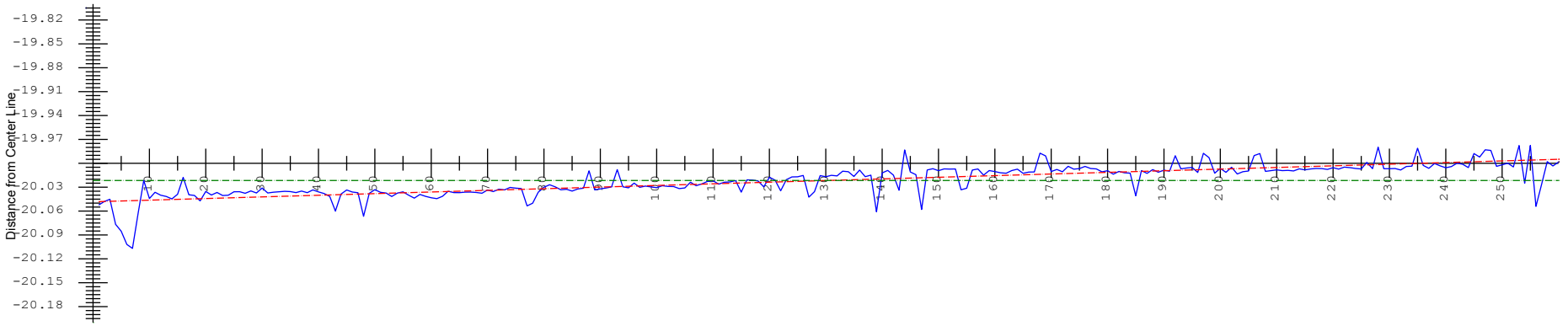
Green = Mean line

Red = Regression line thru points

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

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 39.955



Wall Pole Mean = -20.022 Wall Pole Min. = -20.107 Wall Pole Max. = -19.978 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 :	39.9999	DS Full :	40.0000
Nominal Gap :	40.000	US Wall Half :	19.9917	DS Wall Half :	19.9918
Nom. Taper :	0.000	US Aisle Half :	19.9913	DS Aisle Half :	19.9916

S/N	: HXU_021
Date	: 01-AUG-2019
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)	20.003	0.000	8.750	
US Wall Pole Tip(1)	-20.048	0.000	8.750	
US Sym. Pt.	-0.023			
US Gap				40.051
DS Aisle Pole Tip(260)	20.044	0.000	3375.750	
DS Wall Pole Tip(260)	-19.995	0.000	3375.750	
DS Sym. Pt.	0.024			
DS Gap				40.039
Taper				-0.013

Dimensions in MM

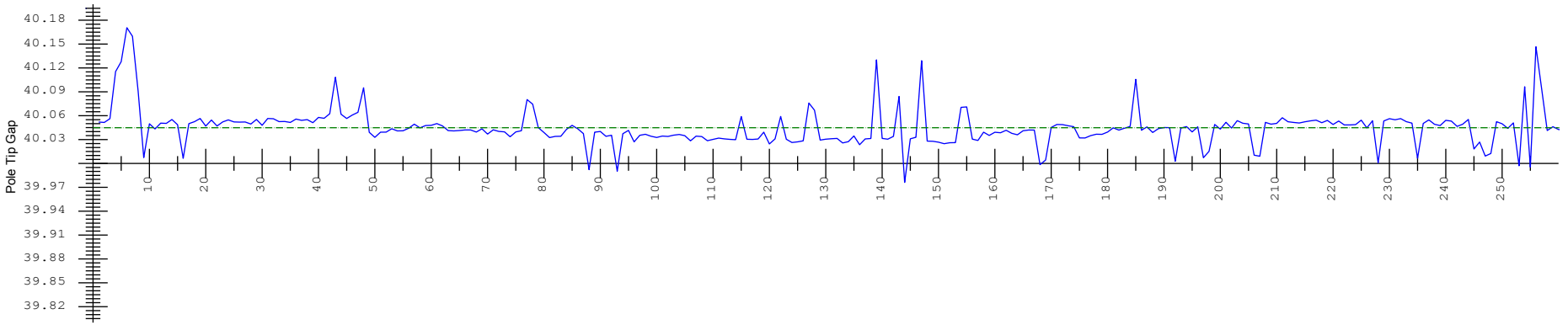
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU - Gap Calc. from Regression Line End Points

		US Full :	39.9999	DS Full :	40.0000
Nominal Gap :	40.000	US Wall Half :	19.9917	DS Wall Half :	19.9918
Nom. Taper :	0.000	US Aisle Half :	19.9913	DS Aisle Half :	19.9916

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

Gap Mean= 40.045 Gap Min. = 39.976 GAP Max. = 40.171



Pole Tip Gap at Nom. Beam Height

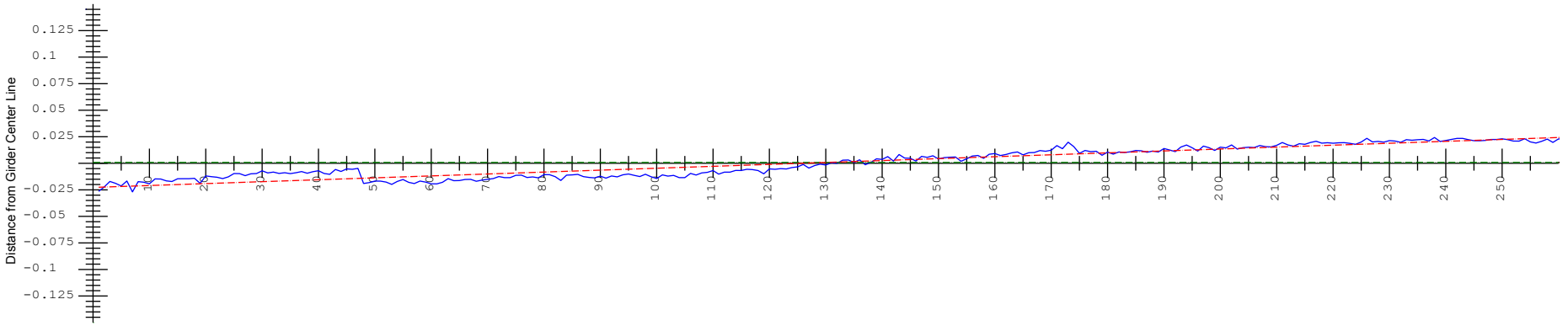
Blue = Pole Tip points

Green = Mean line

Red = Regression line thru points

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

Pole Tip Symmetery Point at Nom. Beam Height



Sym. Mean = 0.001 Sym. Min. = -0.027 Sym. Max. = 0.024 Reg. Line Ang. = 0.014

Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

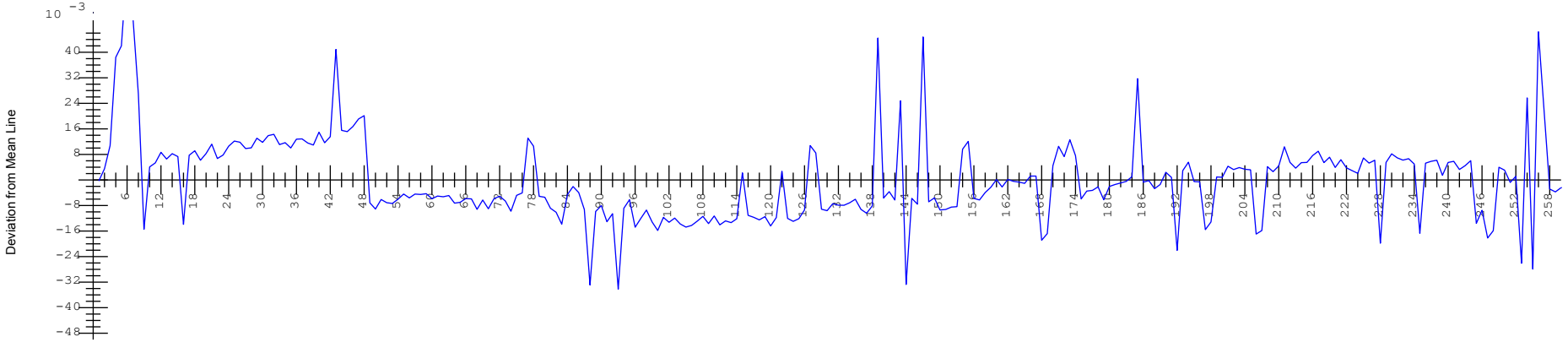
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU -

Pole Tip Gap and Symmetry Point Location

		US Full :	39.9999	DS Full :	40.0000
Nominal Gap :	40.000	US Wall Half :	19.9917	DS Wall Half :	19.9918
Nom. Taper :	0.000	US Aisle Half :	19.9913	DS Aisle Half :	19.9916

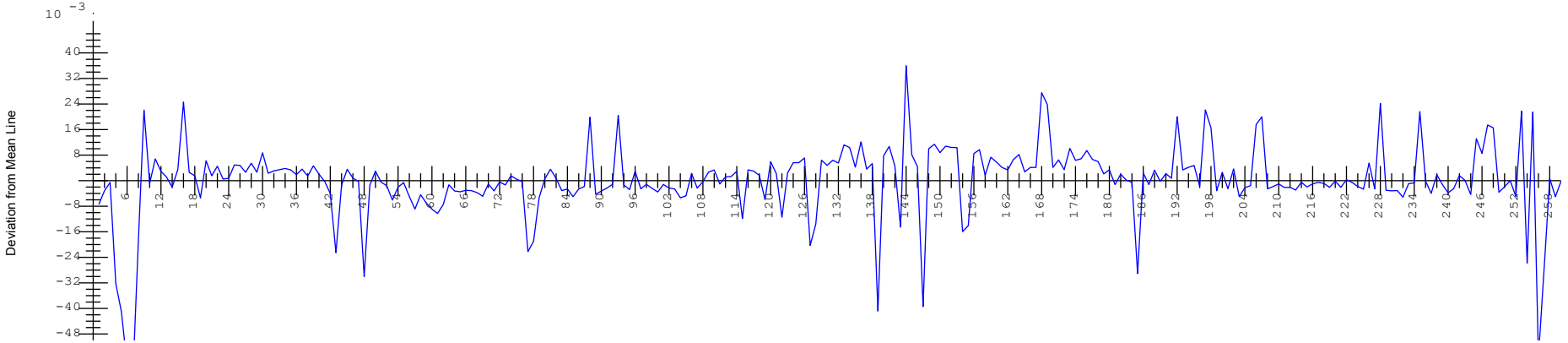
S/N	: HXU_021
Date	: 01-AUG-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B



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

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

HGVPU -

Pole Tip Deviation from Mean Line

		US Full :	39.9999	DS Full :	40.0000
Nominal Gap :	40.000	US Wall Half :	19.9917	DS Wall Half :	19.9918
Nom. Taper :	0.000	US Aisle Half :	19.9913	DS Aisle Half :	19.9916

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