

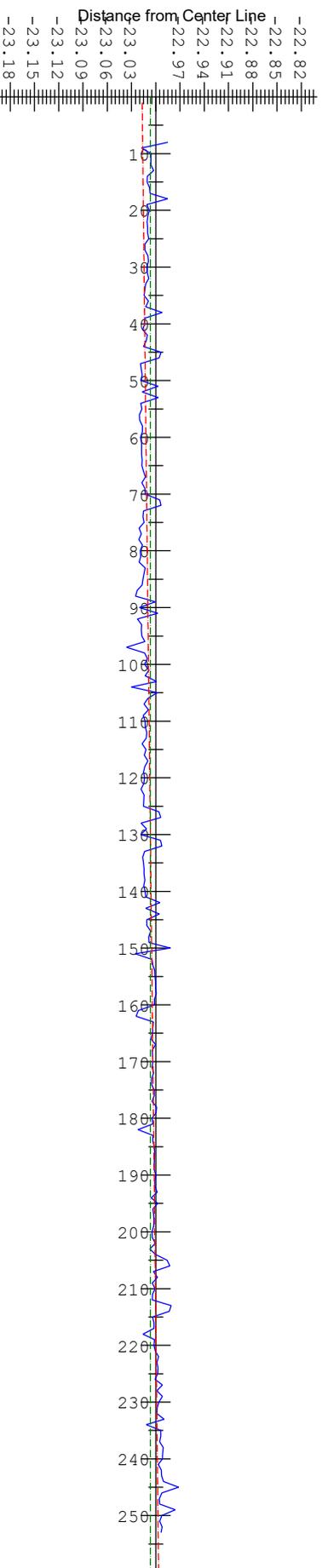
Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. ----->

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

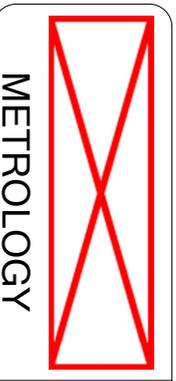
Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 45.919



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



METROLOGY

HGVPU - Pole Tip Location with Vacuum Chamber

Nominal Gap :	46.000	US Full :	46.000	DS Full :	46.0001
US Wall Half :	22.9975	US Wall Half :	22.9975	DS Wall Half :	22.9893
Nom. Taper :	0.000	US Aisle Half :	22.9977	DS Aisle Half :	22.9899

S/N	: HXU 011
Date	: 30-SEP-2021
Data Set	: 0004
Run	: RUN 2
Cam Pos.	: B

Values Calculated from Regression Line End Points

Dimension	X Value	Y Value	Z Value	Calc. Value
US Aisle Pole Tip(1)	22.982	0.000	8.750	
US Wall Pole Tip(1)	-23.017	0.000	8.750	
US Sym. Pt.	-1.575			
US Gap				45.999
DS Aisle Pole Tip(260)	23.008	0.000	3375.750	
DS Wall Pole Tip(260)	-22.997	0.000	3375.750	
DS Sym. Pt.	2.258			
DS Gap				46.004
Taper				0.005

Dimensions in MM

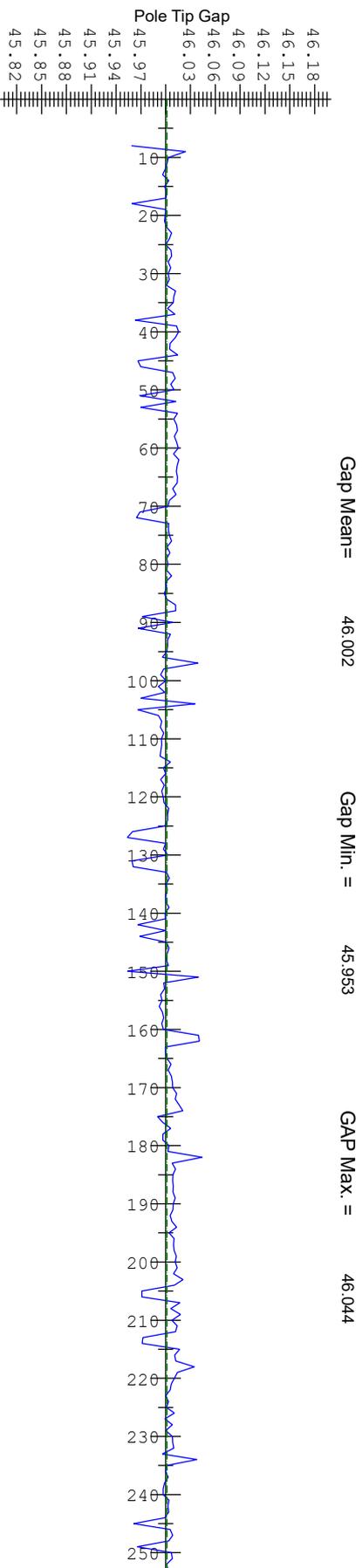


METROLOGY

HGVPU - Gap Calc. with Vacuum Chamber

Nominal Gap : 46.000 **US Full :** 46.000 **DS Full :** 46.0001
US Wall Half : 22.9975 **DS Wall Half :** 22.9893
Norm. Taper : 0.000 **US Aisle Half :** 22.9977 **DS Aisle Half :** 22.9899

S/N : HXU_011
Date : 30-SEP-2021
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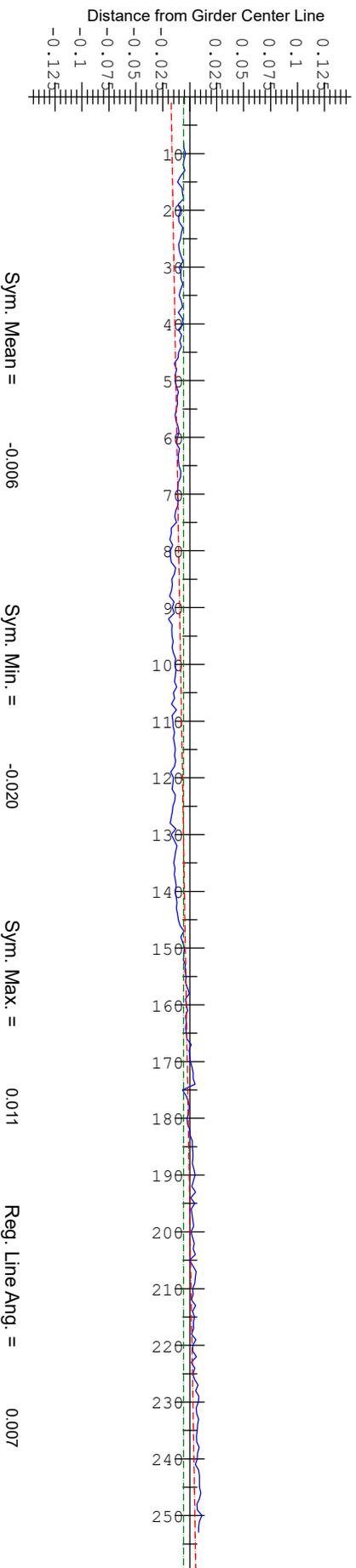


Pole Tip Gap at Nom. Beam Height

Pole Tip Num. ----->

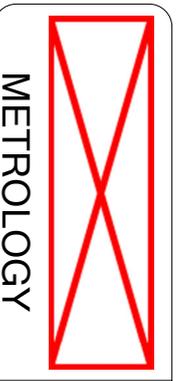
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Pole Tip Symmetry Point at Nom. Beam Height



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

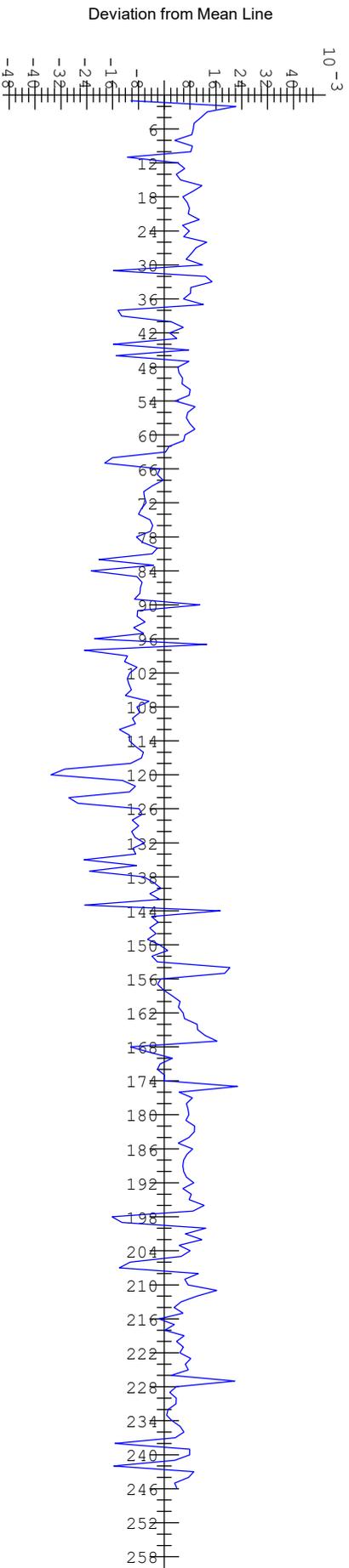


METROLOGY

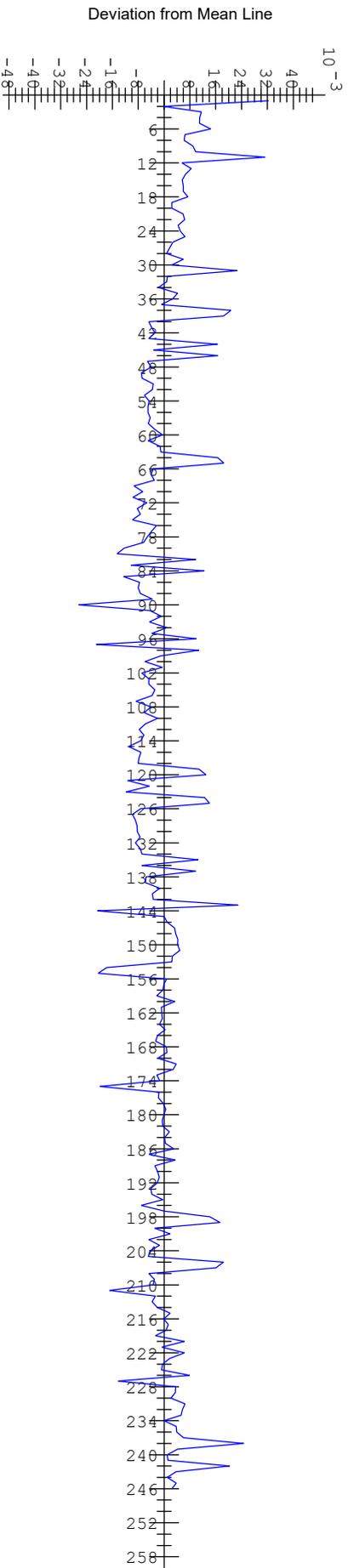
HGVPU - Gap and Symmetry Point with Vacuum Chamber

Nominal Gap :	46.000	US Full :	46.000	DS Full :	46.0001
US Wall Half :	22.9975	US Aisle Half :	22.9977	DS Wall Half :	22.9893
Nom. Taper :	0.000	DS Aisle Half :	22.9899		

S/N	: HXU_011
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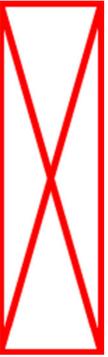
Aisle Pole Tips



Wall Pole Tips

Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane

Dimensions in MM



METROLOGY

HGVPU - Pole Tip Deviation from Mean Line

Nominal Gap :	46.000	US Full :	46.000	DS Full :	46.0001
Nom. Taper :	0.000	US Wall Half :	22.9975	DS Wall Half :	22.9893
		US Aisle Half :	22.9977	DS Aisle Half :	22.9899

S/N	: HXU_011
Date	: 30-SEP-2021
Data Set	: 0004
Run	: RUN 2
Cam Pos.	: B