

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

Regression Line Through Points = 1
Dimensions in mm

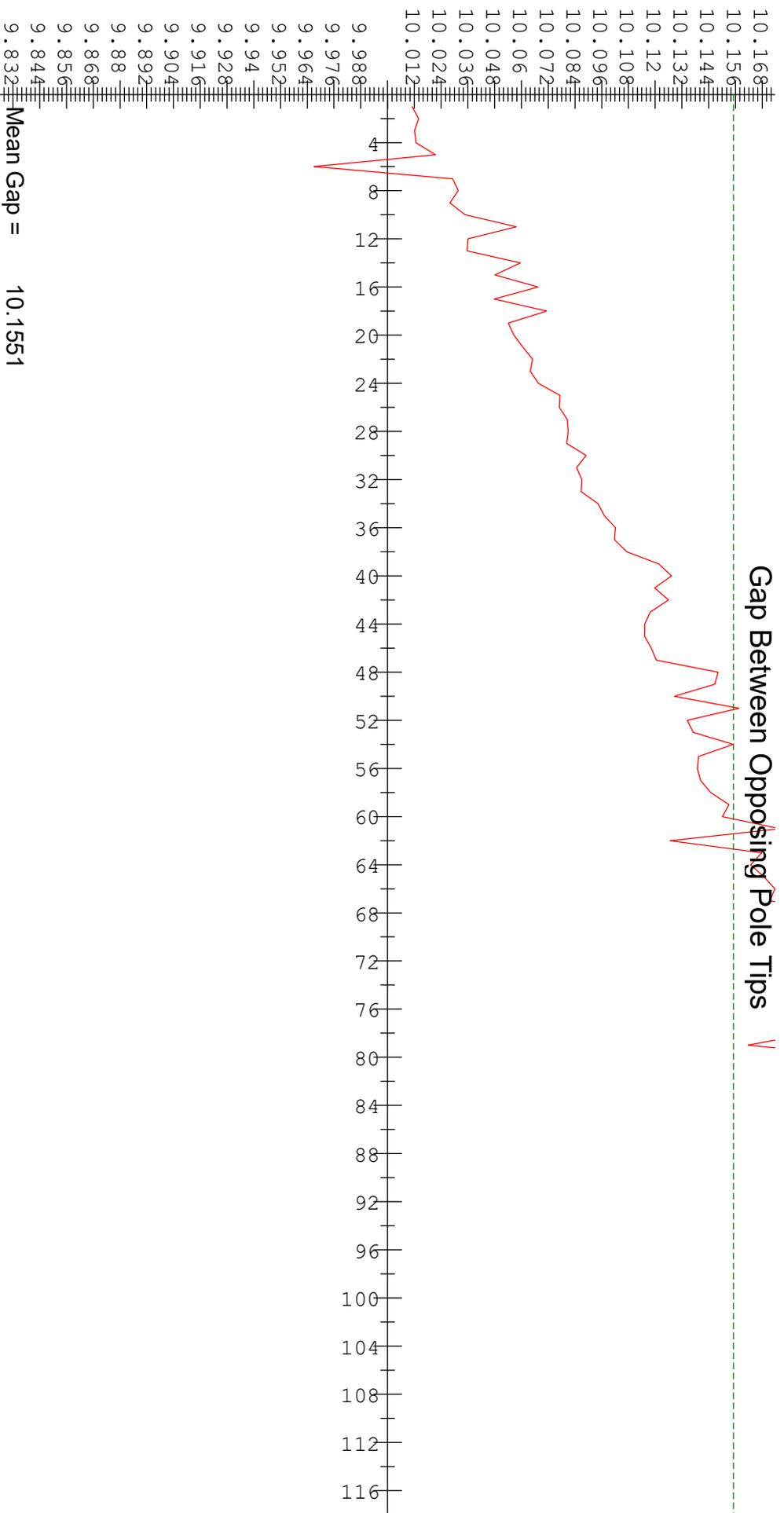


METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.300
Gap Reading = 10.1500 US Encoder = 10.0000 DS Encoder = 10.3001

28-JAN-2025
S/N = 029
D/S = 0001
Run = 5



Step Between Measured Pole Tips = 1

Dimensions in mm



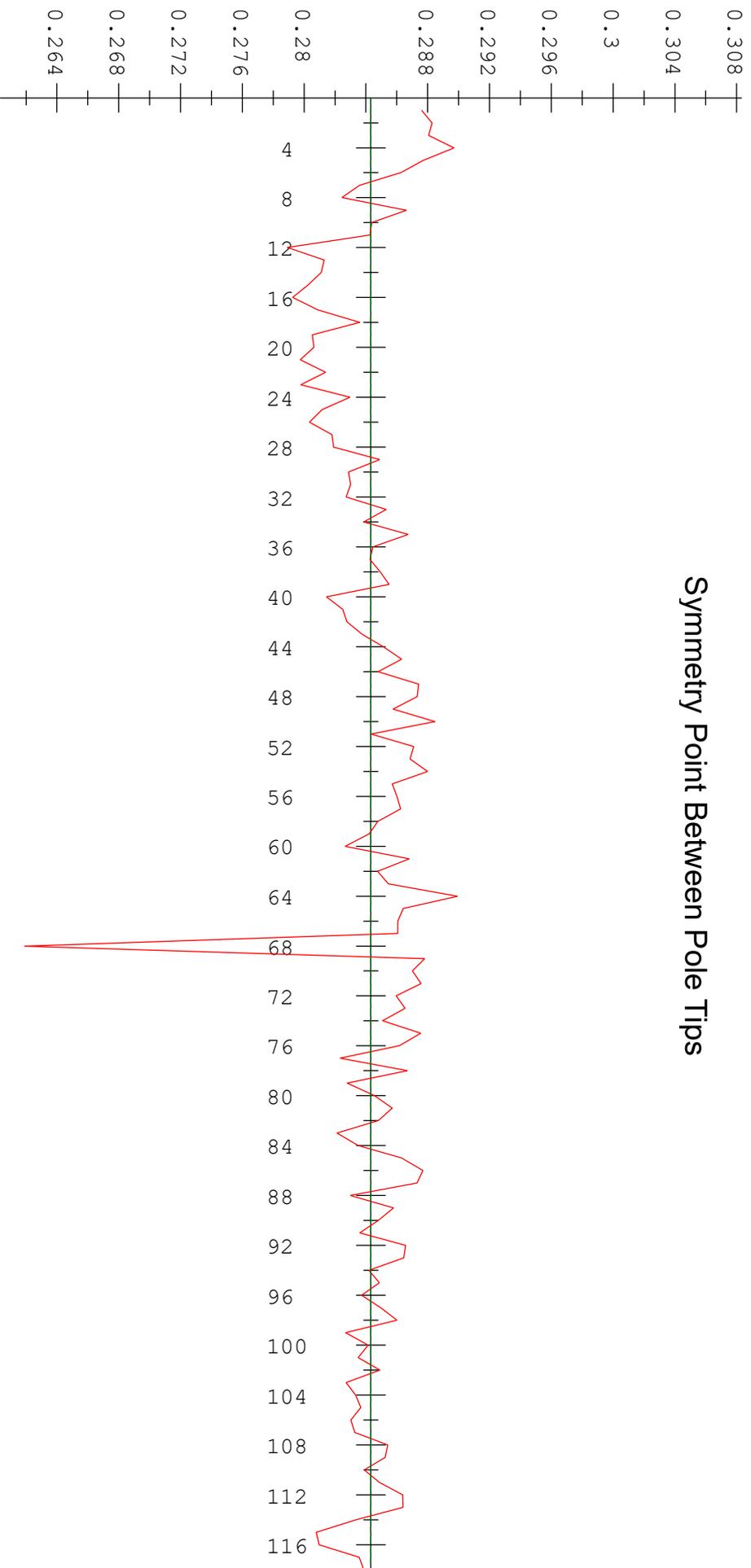
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Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.2843

Step Between Measured Pole Tips = 1

Dimensions in mm



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Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 28)</i>	DS Actuator <i>(Pole 90)</i>	Last Pole <i>(Pole 118)</i>
Top	5.2916	5.3240	5.3985	5.4321
Bottom	-4.7238	-4.7559	-4.8294	-4.8626
Gap	10.0155			10.2947
Taper				0.2793

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.3619	-4.7932	10.1551	0.2843

Additional Calculated Values

Bottom Pole #1 Z Value	978.587
Top Jaw Pitch (mrad)	0.043
Bottom Jaw Pitch(mrad)	-0.042
Minimum Effective Gap	9.967
Reference Block Gap	6.800

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