

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

Regression Line Through Points = -----
Dimensions in mm



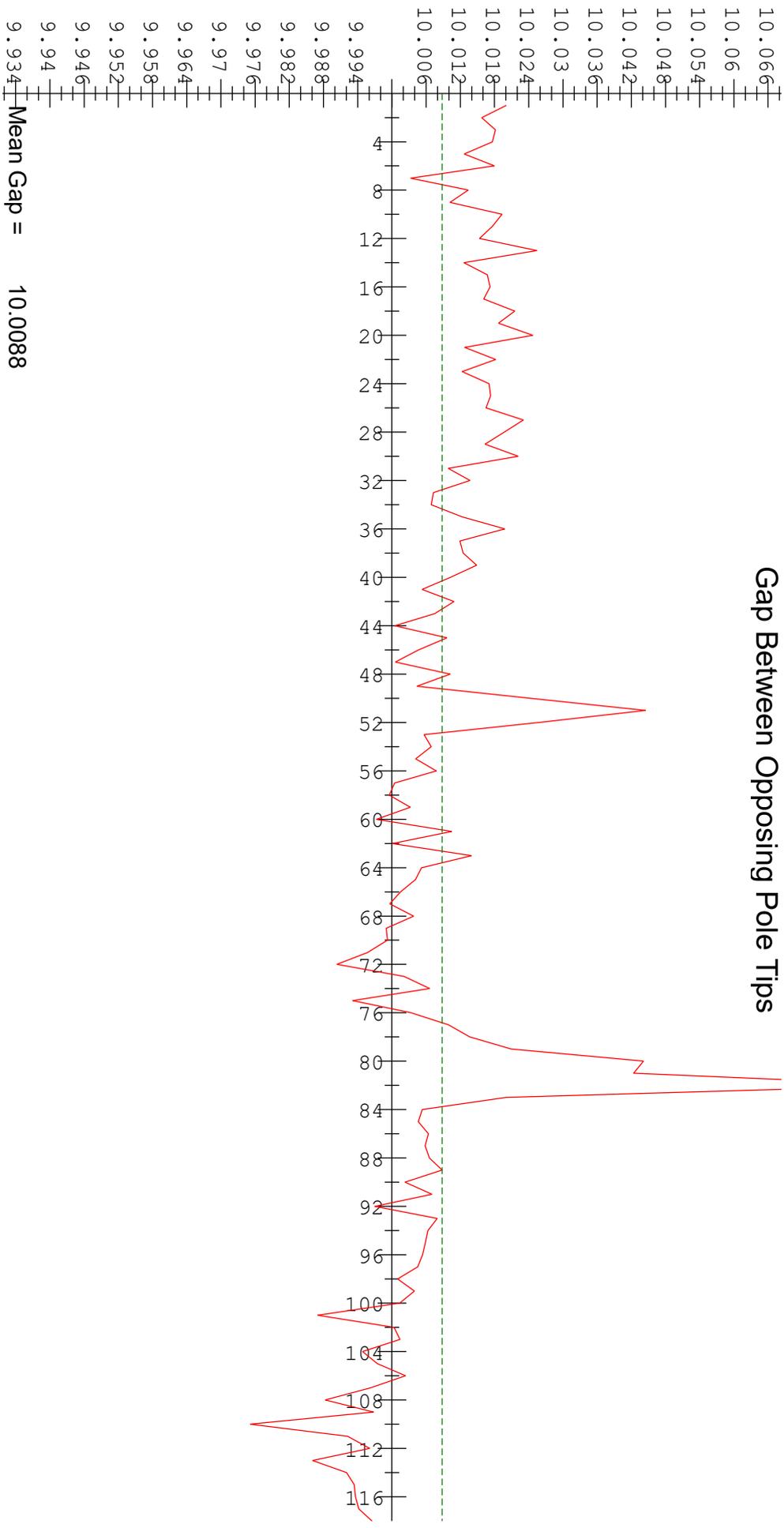
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
Gap Reading = 10.0001 US Encoder = 9.9999 DS Encoder = 10.0003

17-NOV-2025
S/N = 007
D/S = 0001
Run = 1

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



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LCLS II-HE - SXR Undulator

Nominal Gap = 10

Gap Reading = 10.0001

US Encoder = 9.9999

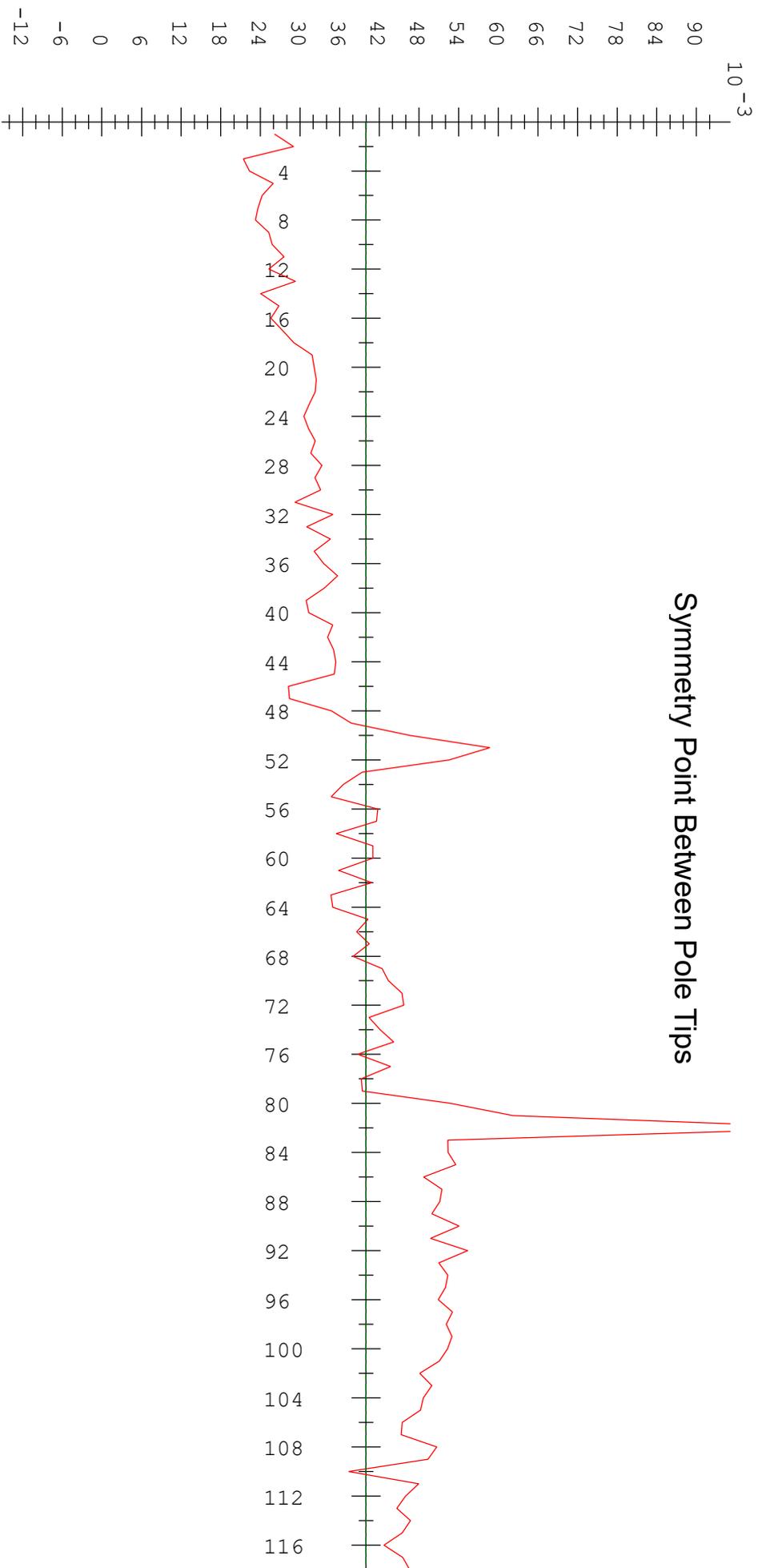
DS Encoder = 10.0003

17-NOV-2025

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D/S = 0001

Run = 1



Symmetry Point Between Pole Tips

Mean Symmetry Value = 0.0400

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	5.0352	5.0394	5.0492	5.0536
Bottom	-4.9843	-4.9751	-4.9541	-4.9446
Gap	10.0194			9.9982
Taper				-0.0212

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0444	-4.9644	10.0088	0.0400

Additional Calculated Values

Bottom Pole #1 Z Value	979.312
Top Jaw Pitch (mrad)	0.006
Bottom Jaw Pitch(mrad)	0.012
Minimum Effective Gap	9.959
Reference Block Gap	6.797

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