

Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 5

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



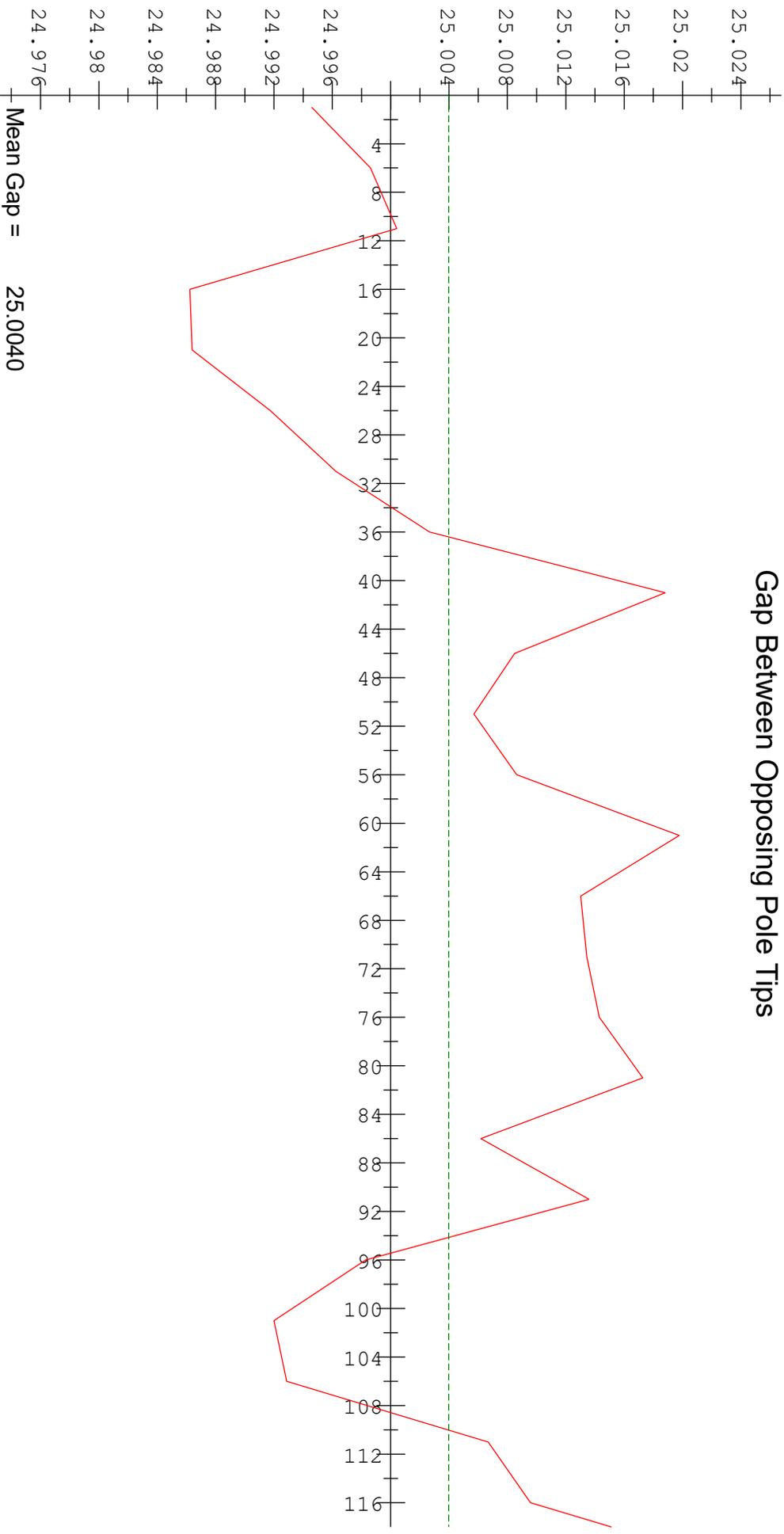
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 25      Nominal Taper = 0.000  
Gap Reading = 25.0000      US Encoder = 25.0001      DS Encoder = 25.0000

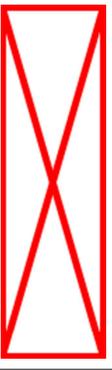
23-MAY-2024  
S/N = 023  
D/S = 0001  
Run = 14

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm



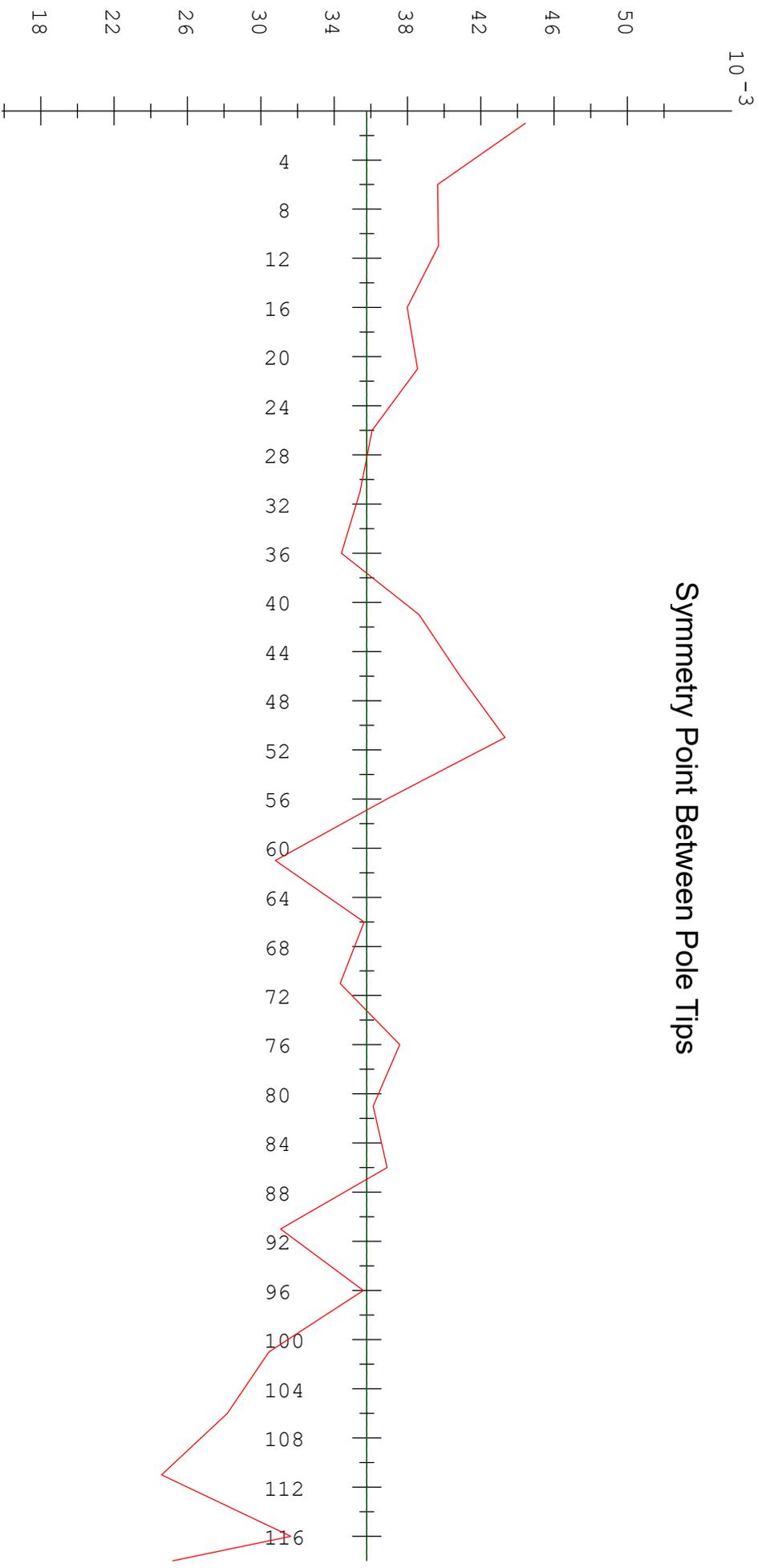
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### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0358

Step Between Measured Pole Tips = 5

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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>
<b>Top</b>	12.5405	12.5392	12.5362	12.5348
<b>Bottom</b>	-12.4572	-12.4616	-12.4715	-12.4761
<b>Gap</b>	24.9977			25.0109
<b>Taper</b>				0.0132

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
12.5378	-12.4662	25.0040	0.0358

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	979.438
<b>Top Jaw Pitch (mrad)</b>	-0.002
<b>Bottom Jaw Pitch(mrad)</b>	-0.006
<b>Minimum Effective Gap</b>	24.977
<b>Reference Block Gap</b>	6.799

Dimensions in mm



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