

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

Regression Line Through Points = 3  
Dimensions in mm



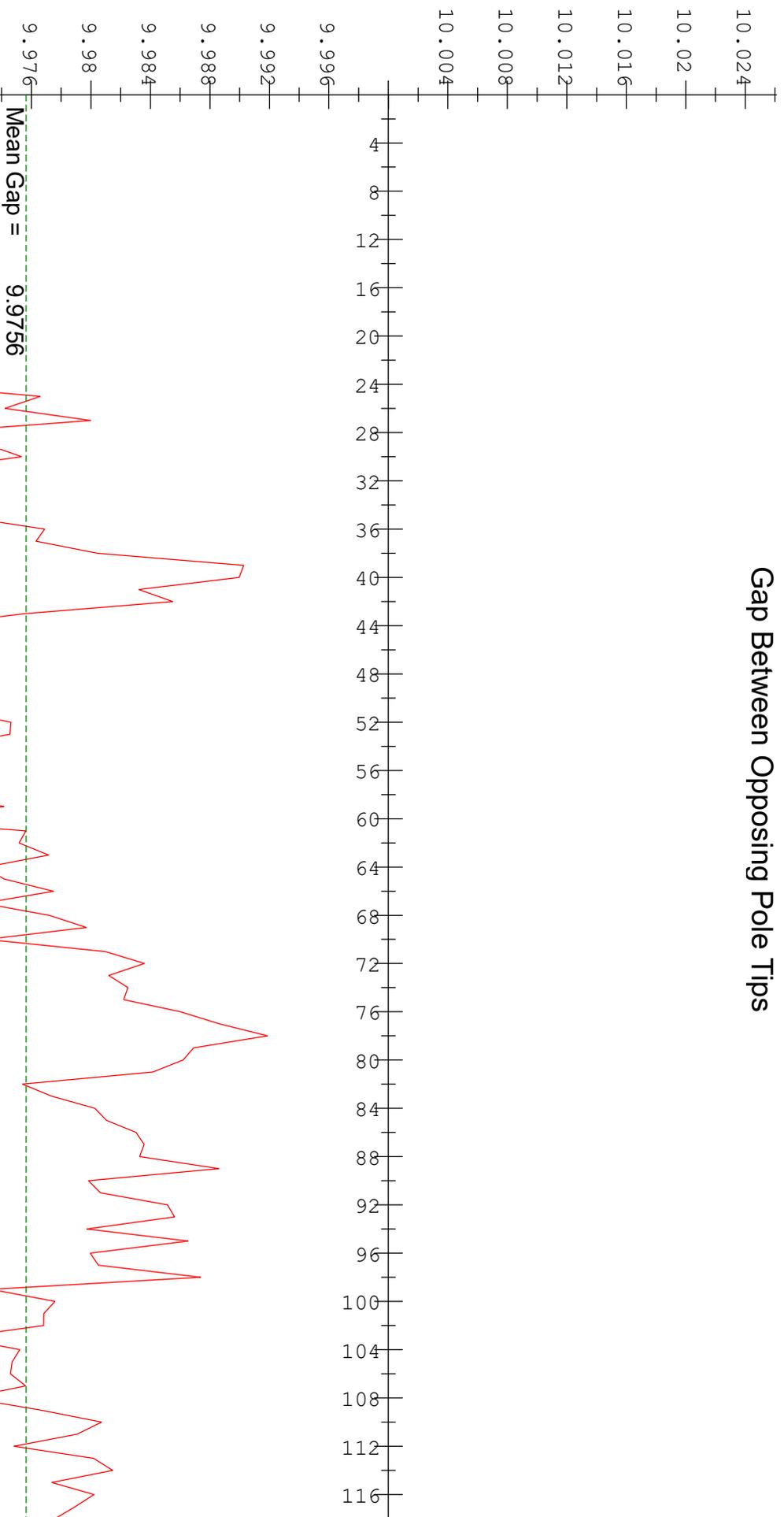
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
Gap Reading = 10.0000      US Encoder = 10.0000      DS Encoder = 10.0000

14-JAN-2025  
S/N = 029  
D/S = 0001  
Run = 3

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



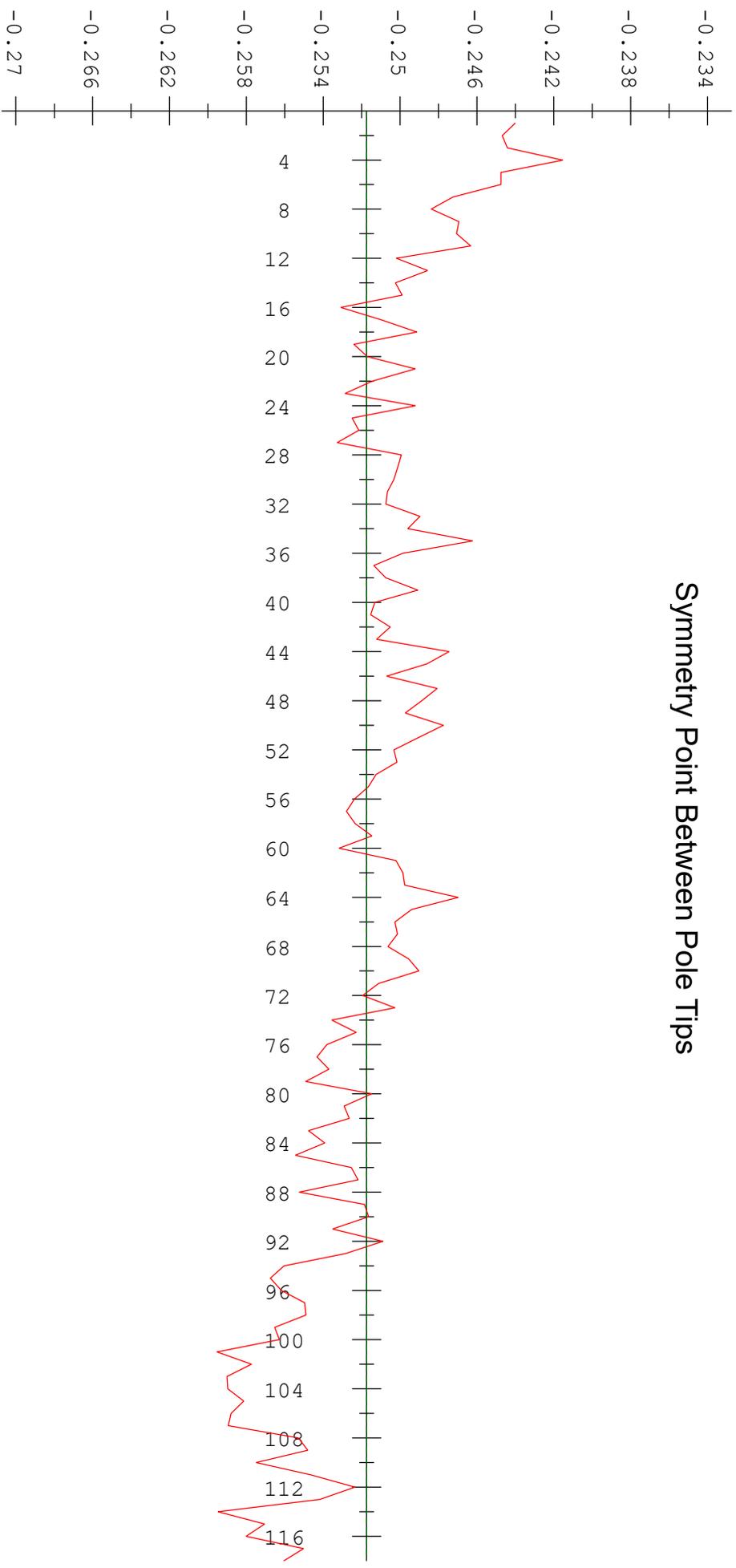
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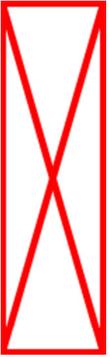
### Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.2517

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>
<b>Top</b>	4.7377	4.7370	4.7352	4.7344
<b>Bottom</b>	-5.2315	-5.2352	-5.2438	-5.2477
<b>Gap</b>	9.9692			9.9821
<b>Taper</b>				0.0128

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.7361	-5.2396	9.9756	-0.2517

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>978.618</b>
<b>Top Jaw Pitch (mrad)</b>	<b>-0.001</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>-0.005</b>
<b>Minimum Effective Gap</b>	<b>9.954</b>
<b>Reference Block Gap</b>	<b>6.794</b>

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