

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

Regression Line Through Points = 1  
Dimensions in mm



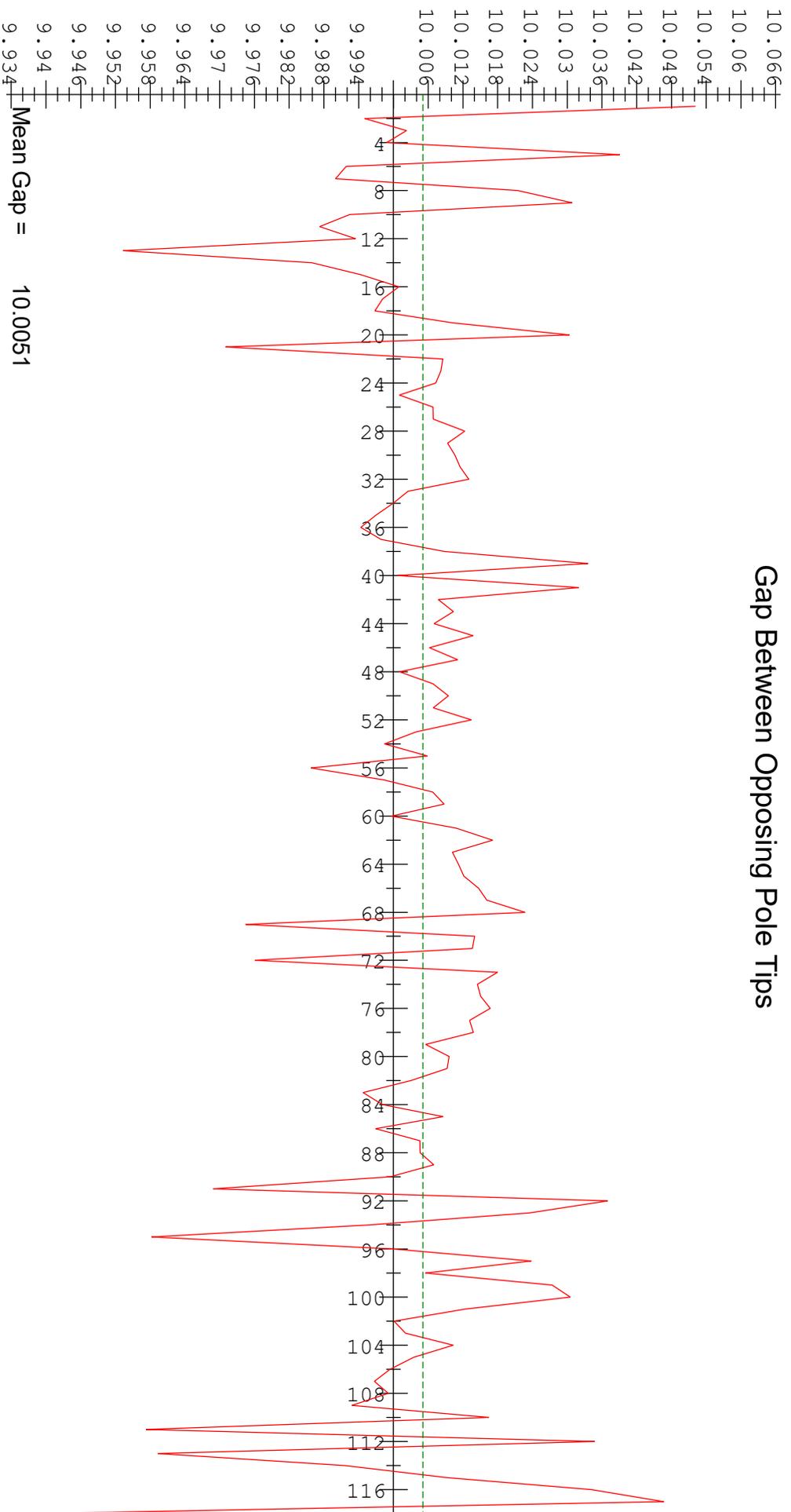
METROLOGY

# LCLS II-HE - SXR Undulator

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

28-JUN-2023  
S/N = 000  
D/S = 0003  
Run = 4

## Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



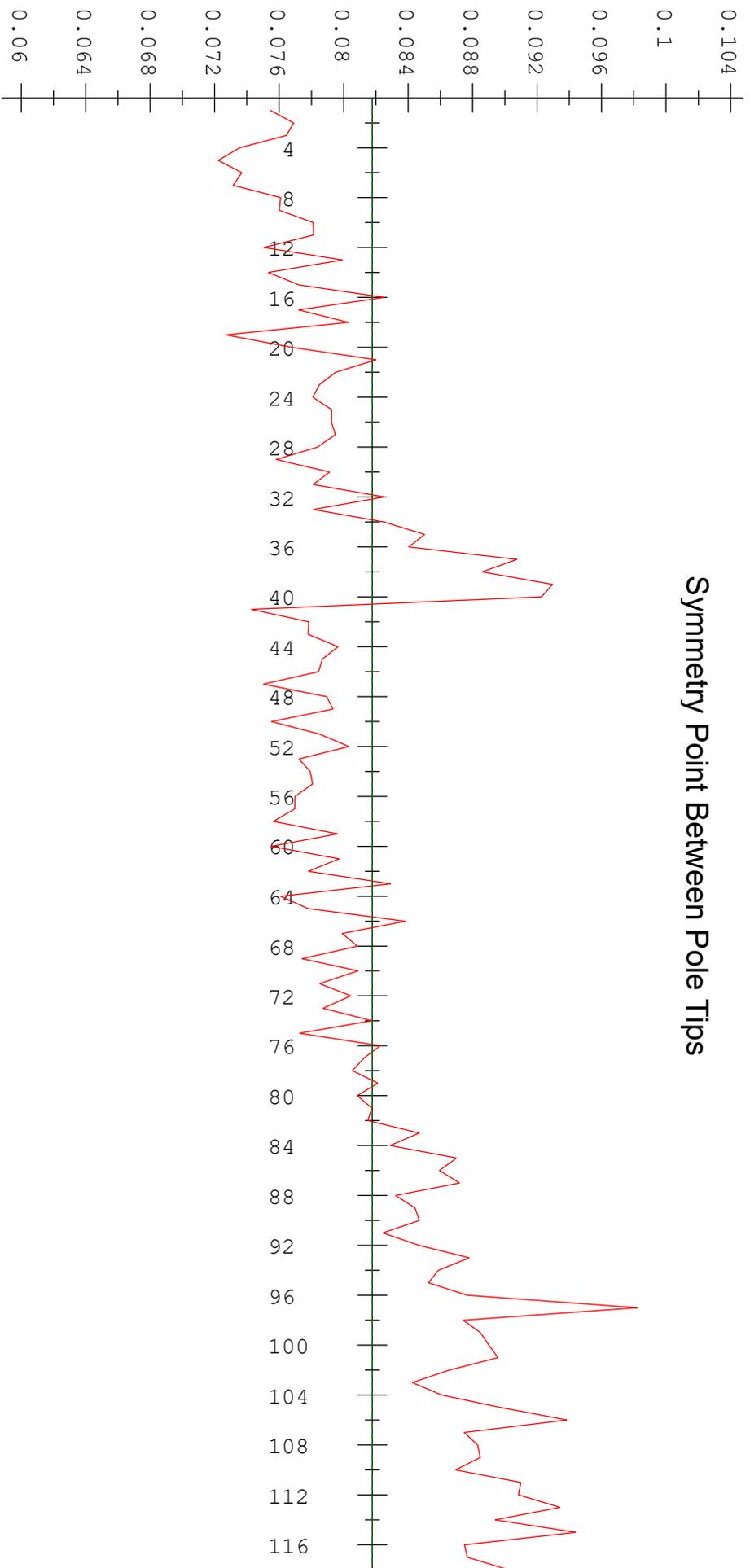
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### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0818

Step Between Measured Pole Tips = 1

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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>	5.0781	5.0810	5.0875	5.0905
<b>Bottom</b>	-4.9280	-4.9247	-4.9170	-4.9135
<b>Gap</b>	10.0062			10.0040
<b>Taper</b>				-0.0021

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0843	-4.9208	10.0051	0.0818

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>974.878</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.004</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.004</b>
<b>Minimum Effective Gap</b>	<b>9.936</b>
<b>Reference Block Gap</b>	<b>6.798</b>

Dimensions in mm



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