

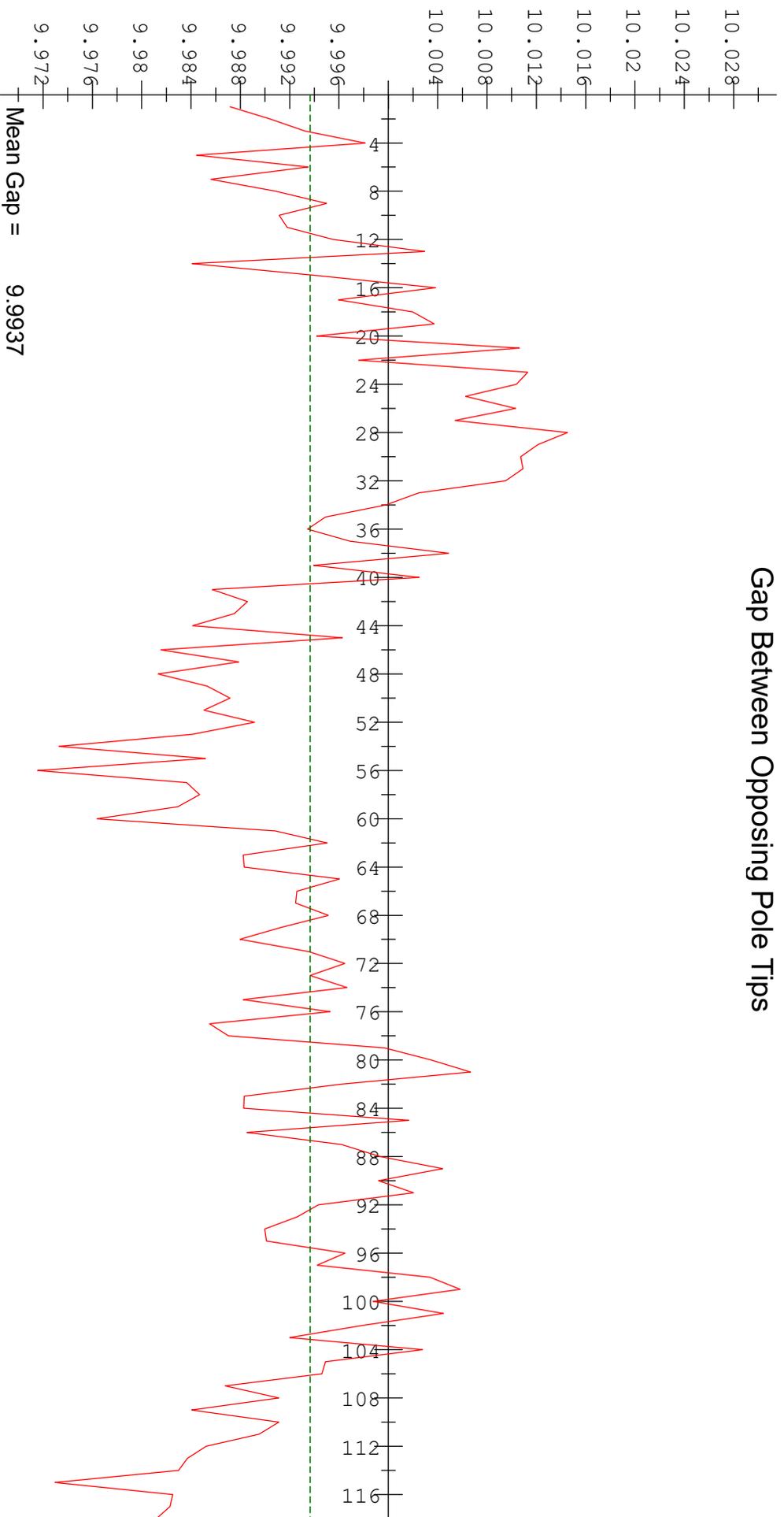
METROLOGY

**LCLS II-HE - SXR Undulator**

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

25-AUG-2022  
 S/N = 000  
 D/S = 0001  
 Run = 3

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



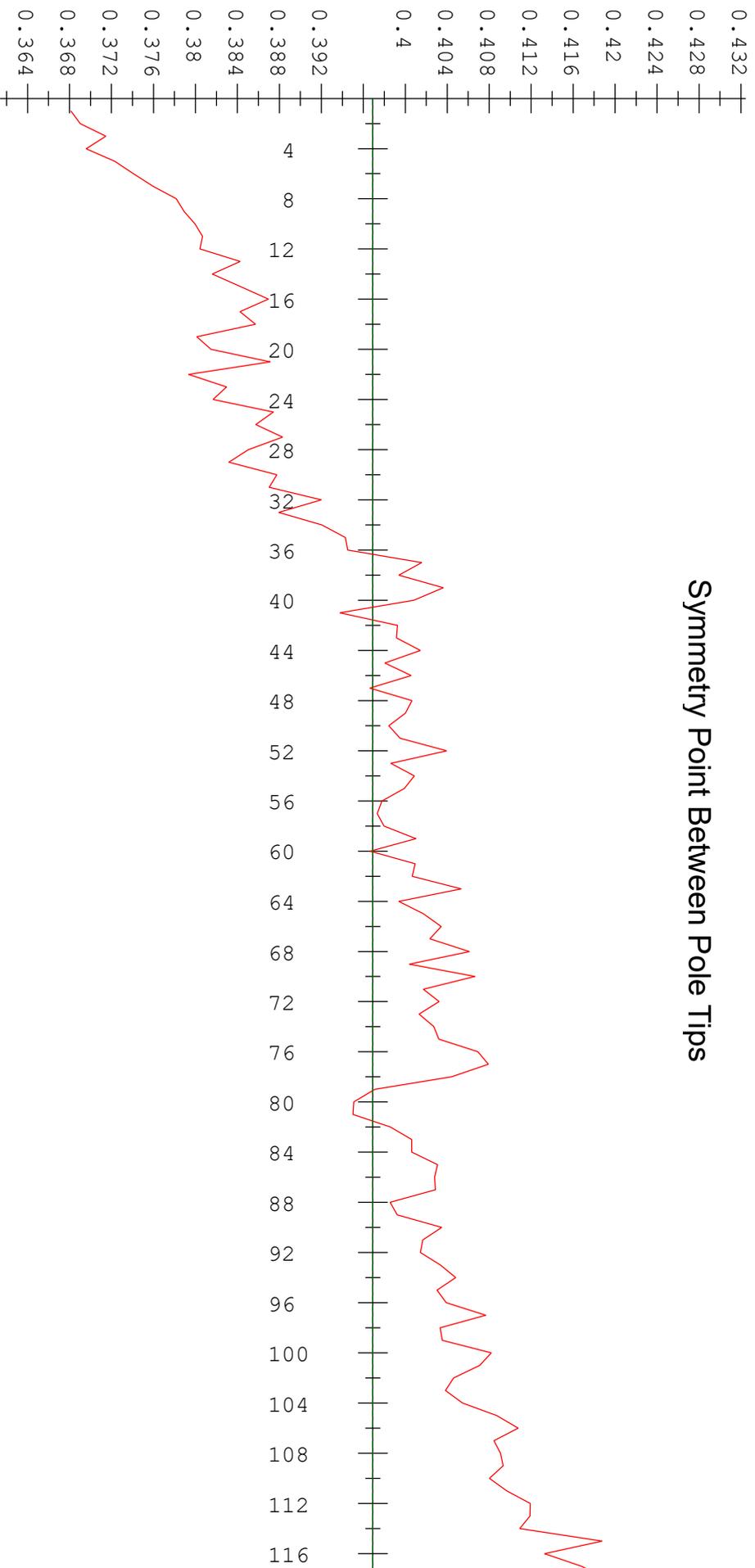
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### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3969

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>	5.3783	5.3854	5.4018	5.4092
<b>Bottom</b>	-4.6190	-4.6102	-4.5900	-4.5809
<b>Gap</b>	9.9972			9.9901
<b>Taper</b>				-0.0071

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.3937	-4.5999	9.9937	0.3969

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>974.815</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.009</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.012</b>
<b>Minimum Effective Gap</b>	<b>9.929</b>
<b>Reference Block Gap</b>	<b>6.804</b>

Dimensions in mm



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