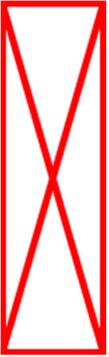


Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 1

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



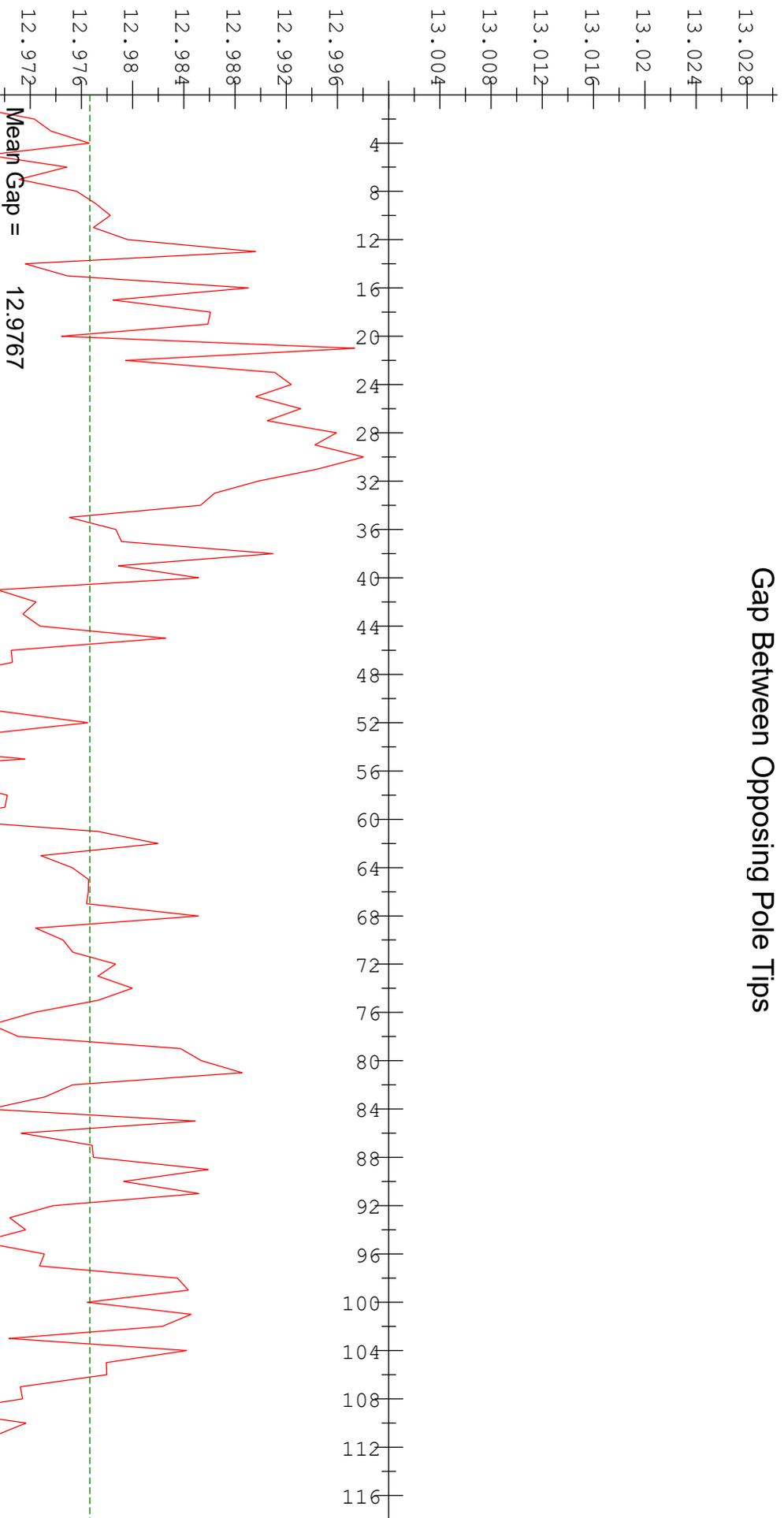
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 13      Nominal Taper = 0.000  
Gap Reading = 13.0000      US Encoder = 13.0000      DS Encoder = 13.0000

25-AUG-2022  
S/N = 000  
D/S = 0001  
Run = 1

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



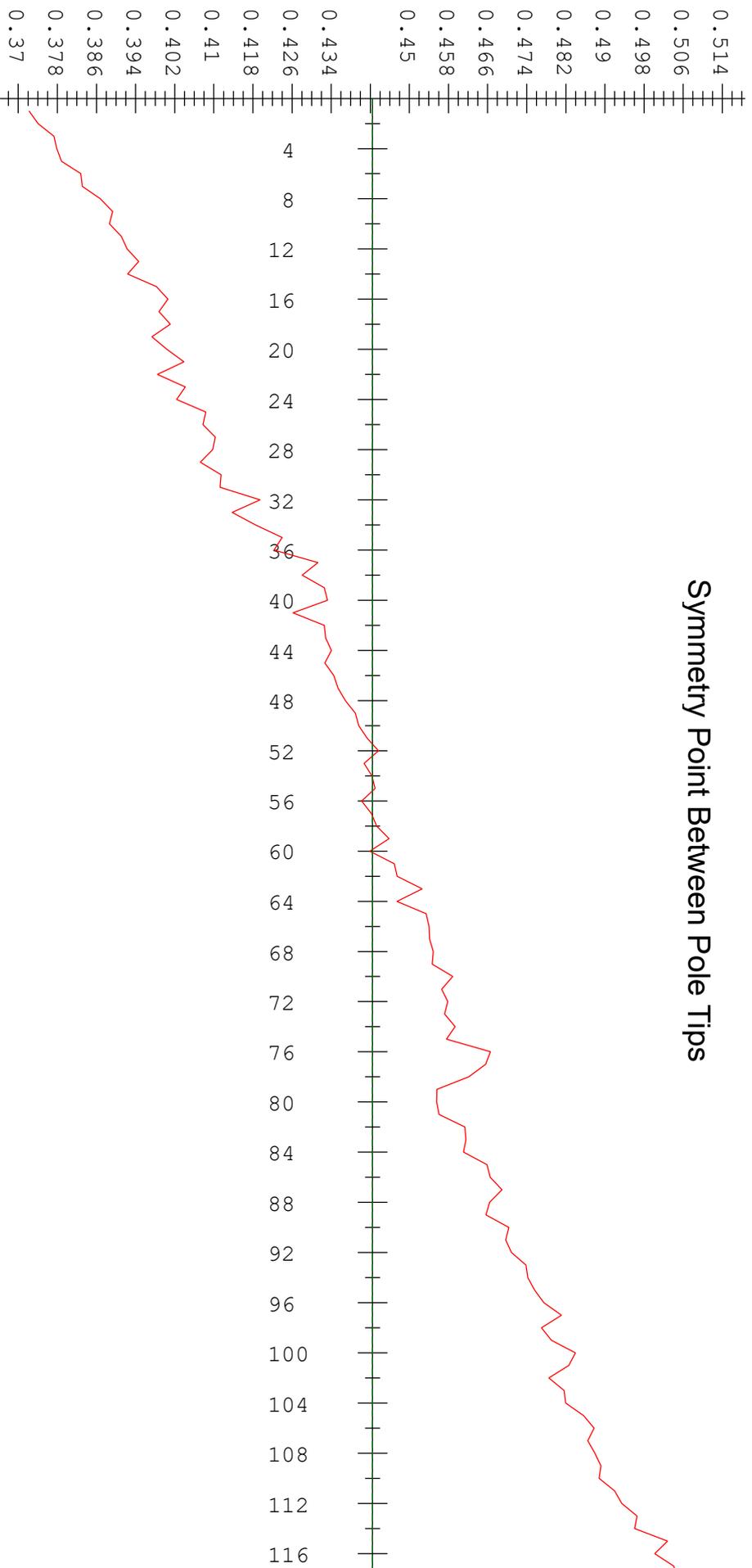
METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 13  
Nominal Taper = 0.000  
Gap Reading = 13.0000  
US Encoder = 13.0000  
DS Encoder = 13.0000

25-AUG-2022  
S/N = 000  
D/S = 0001  
Run = 1

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.4425

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 13      Nominal Taper = 0.000  
Gap Reading = 13.0000      US Encoder = 13.0000      DS Encoder = 13.0000

25-AUG-2022  
S/N = 000  
D/S = 0001  
Run = 1

## 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>	6.8744	6.9004	6.9602	6.9871
<b>Bottom</b>	-6.1074	-6.0790	-6.0138	-5.9843
<b>Gap</b>	12.9818			12.9715
<b>Taper</b>				-0.0103

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.9308	-6.0459	12.9767	0.4425

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>974.815</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.034</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.038</b>
<b>Minimum Effective Gap</b>	<b>12.832</b>
<b>Reference Block Gap</b>	<b>6.804</b>

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 13      Nominal Taper = 0.000  
 Gap Reading = 13.0000      US Encoder = 13.0000      DS Encoder = 13.0000

25-AUG-2022  
 S/N = 000  
 D/S = 0001  
 Run = 1