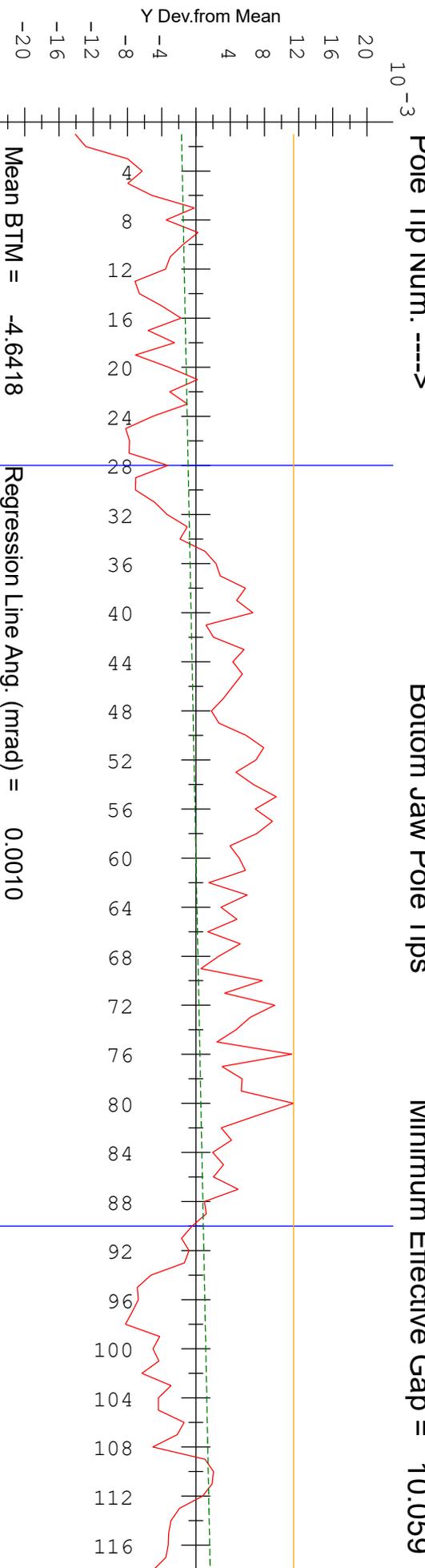
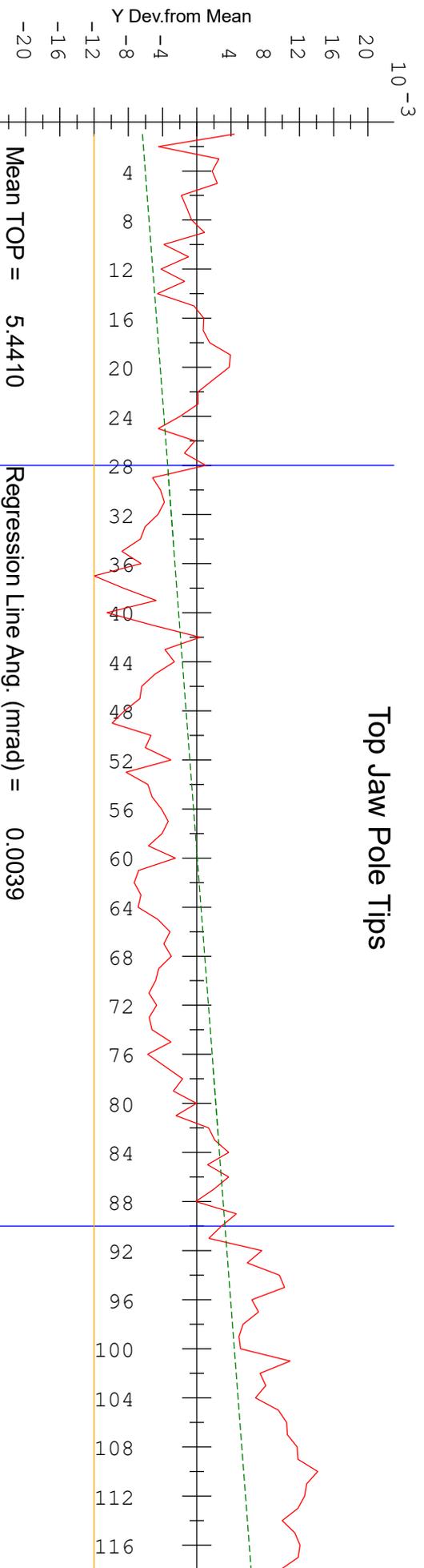


### Top Jaw Pole Tips



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

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



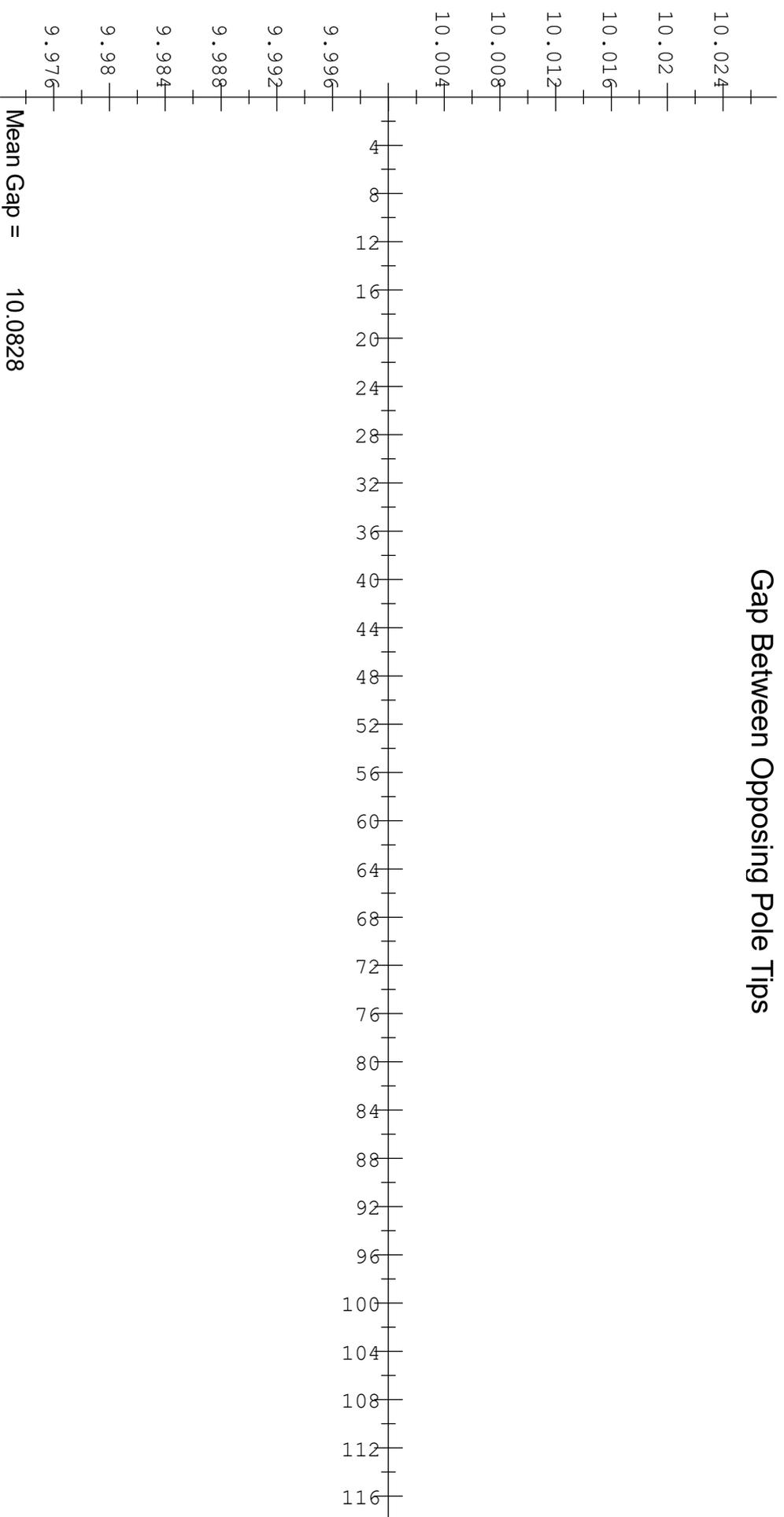
METROLOGY

## LCLS II-HE - SXR Undulator

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

13-JAN-2026  
S/N = 003  
D/S = 0001  
Run = 2

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



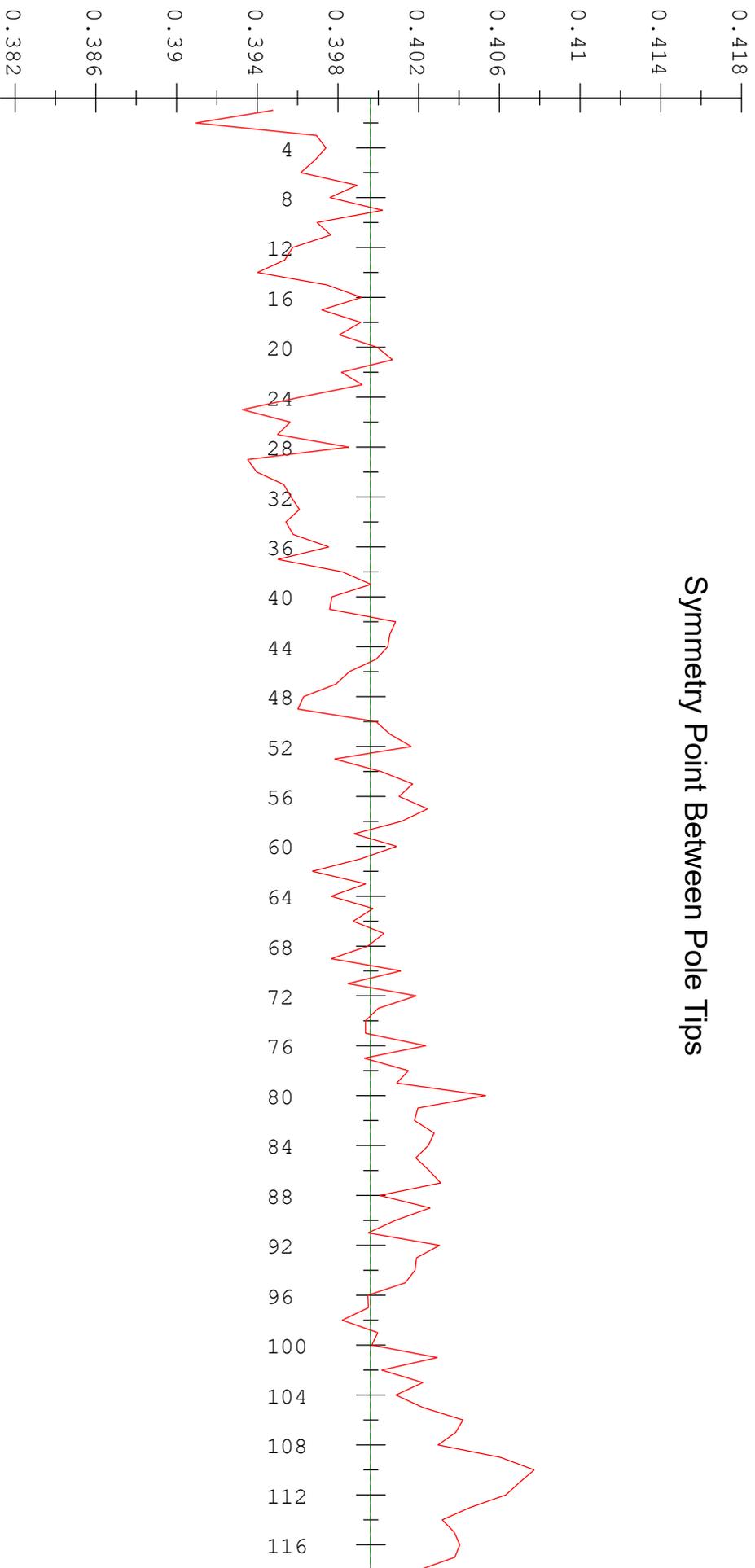
METROLOGY

## LCLS II-HE - SXR Undulator

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

13-JAN-2026  
S/N = 003  
D/S = 0001  
Run = 2

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3996

Step Between Measured Pole Tips = 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

13-JAN-2026  
S/N = 003  
D/S = 0001  
Run = 2

## 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>	5.4347	5.4376	5.4444	5.4474
<b>Bottom</b>	-4.6435	-4.6427	-4.6409	-4.6401
<b>Gap</b>	10.0782			10.0875
<b>Taper</b>				0.0093

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4410	-4.6418	10.0828	0.3996

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>978.769</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.004</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.001</b>
<b>Minimum Effective Gap</b>	<b>10.059</b>
<b>Reference Block Gap</b>	<b>6.797</b>

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

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

13-JAN-2026  
 S/N = 003  
 D/S = 0001  
 Run = 2