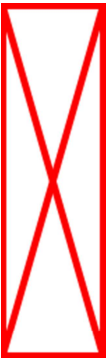


Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 1

Regression Line Through Points = 3  
Dimensions in mm



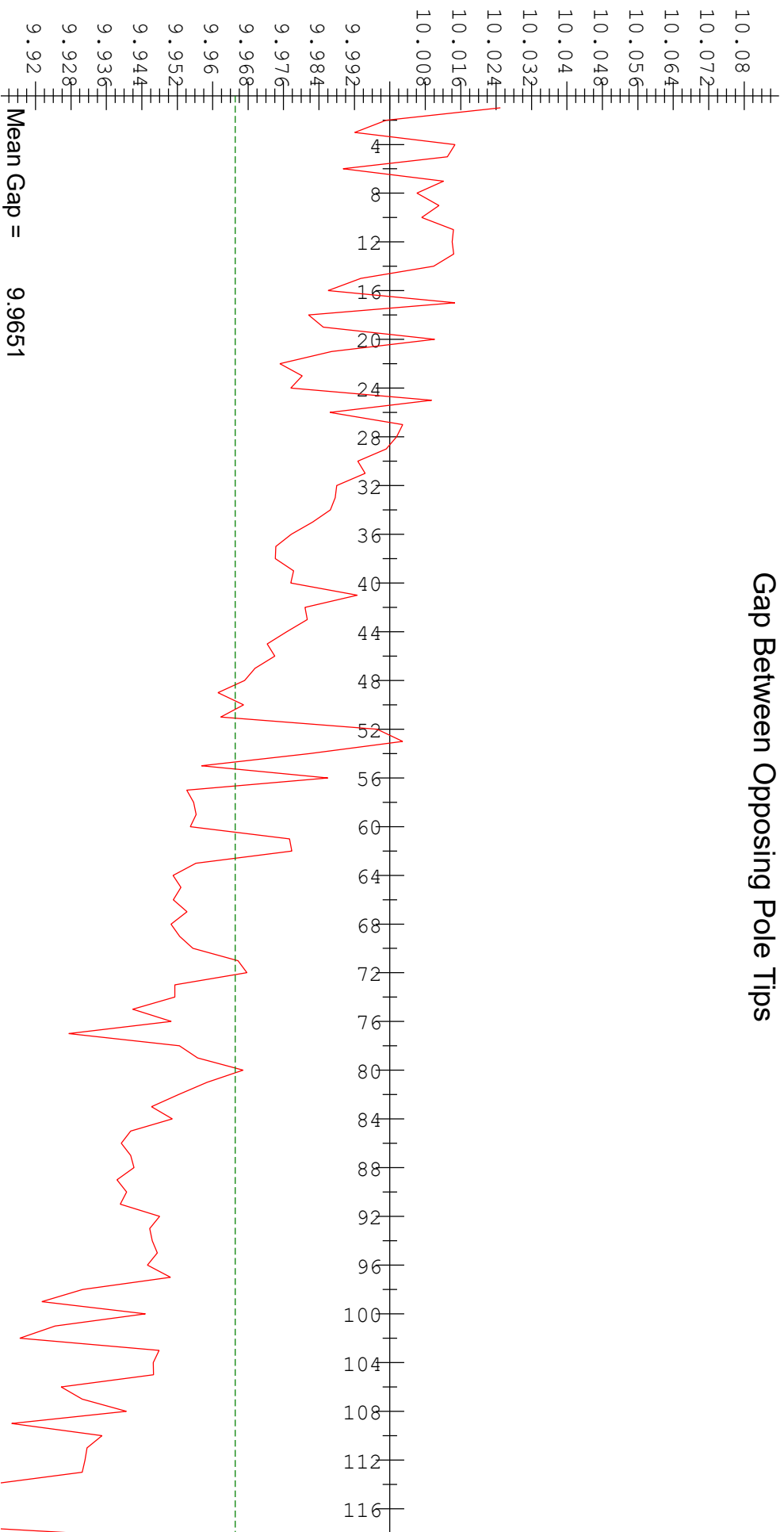
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = -0.100  
Gap Reading = 9.9500      US Encoder = 10.0000      DS Encoder = 9.9000

24-MAR-2026  
S/N = 009  
D/S = 0001  
Run = 3

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



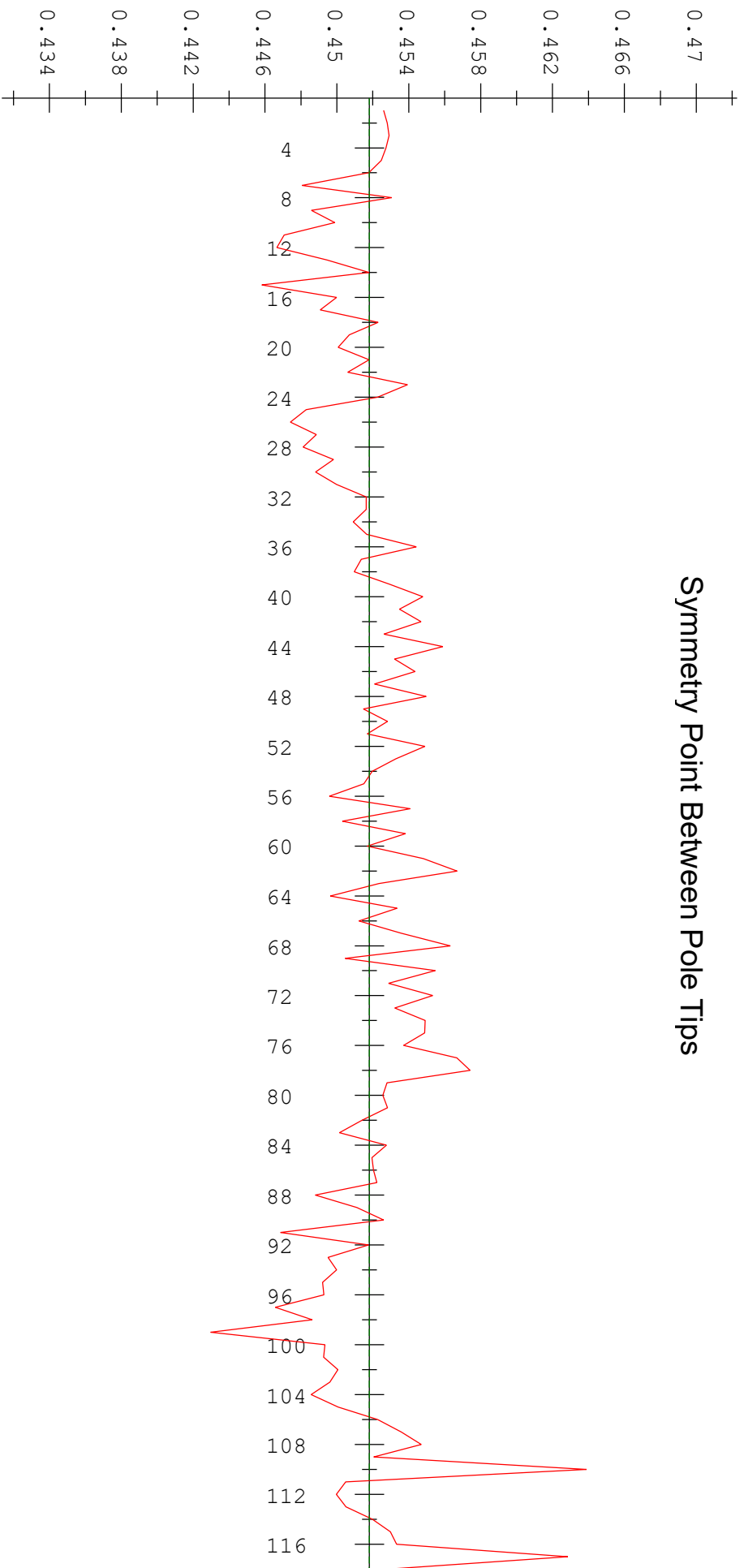
METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = -0.100  
Gap Reading = 9.9500      US Encoder = 10.0000      DS Encoder = 9.9000

24-MAR-2026  
S/N = 009  
D/S = 0001  
Run = 3

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.4518

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = -0.100  
Gap Reading = 9.9500      US Encoder = 10.0000      DS Encoder = 9.9000

24-MAR-2026  
S/N = 009  
D/S = 0001  
Run = 3

## 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>	5.4570	5.4465	5.4225	5.4117
<b>Bottom</b>	-4.5548	-4.5437	-4.5182	-4.5066
<b>Gap</b>	10.0118			9.9183
<b>Taper</b>				-0.0935

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4343	-4.5307	9.9651	0.4518

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	979.036
<b>Top Jaw Pitch (mrad)</b>	-0.014
<b>Bottom Jaw Pitch(mrad)</b>	0.015
<b>Minimum Effective Gap</b>	9.864
<b>Reference Block Gap</b>	6.795

Dimensions in mm



METROLOGY

### LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = -0.100  
 Gap Reading = 9.9500      US Encoder = 10.0000      DS Encoder = 9.9000

24-MAR-2026  
 S/N = 009  
 D/S = 0001  
 Run = 3