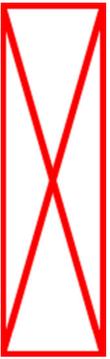


Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 1

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



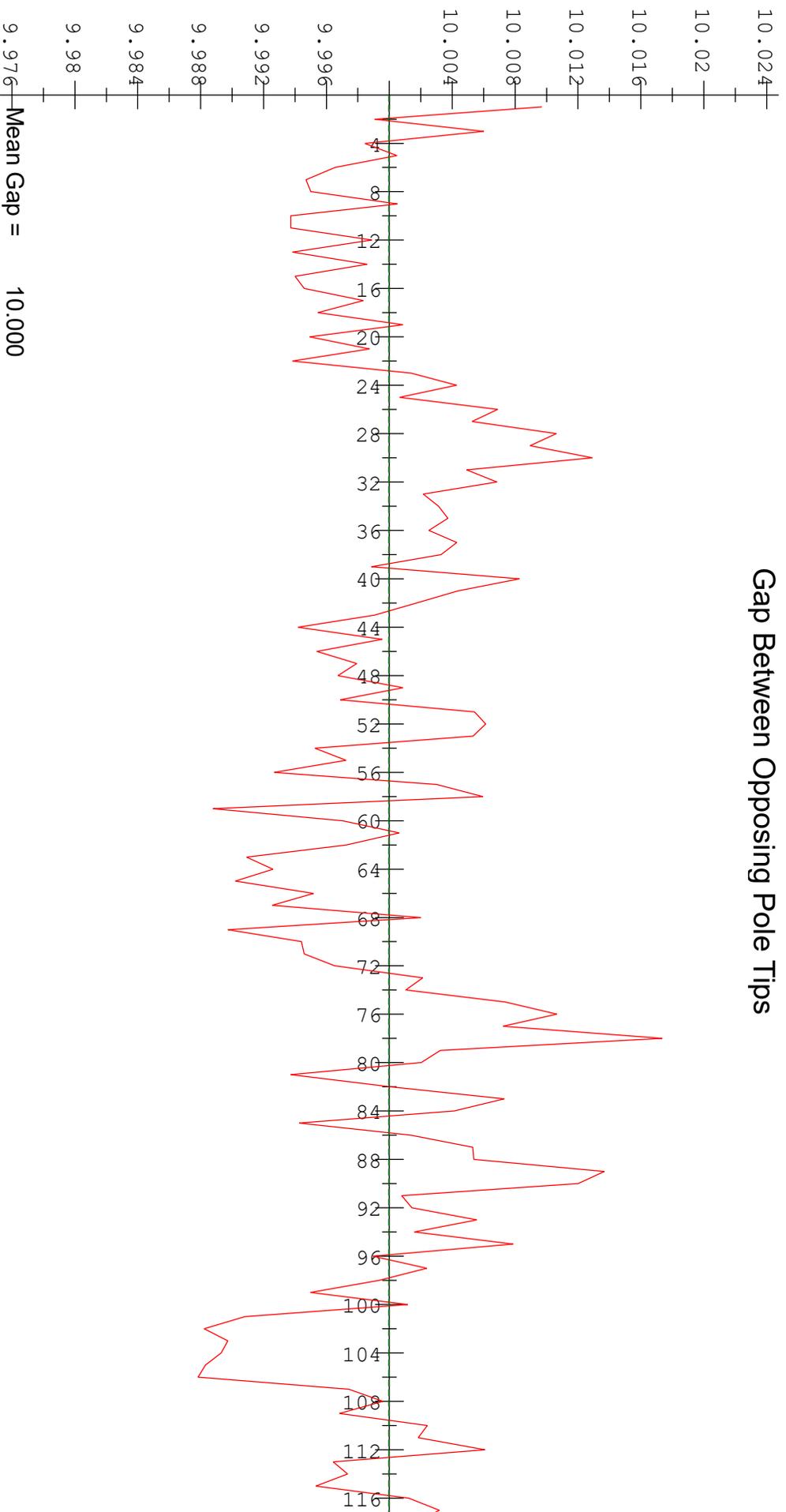
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
Gap Reading = 10.0003      US Encoder = 10.0006      DS Encoder = 10.0001

14-AUG-2024  
S/N = 025  
D/S = 0001  
Run = 3

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



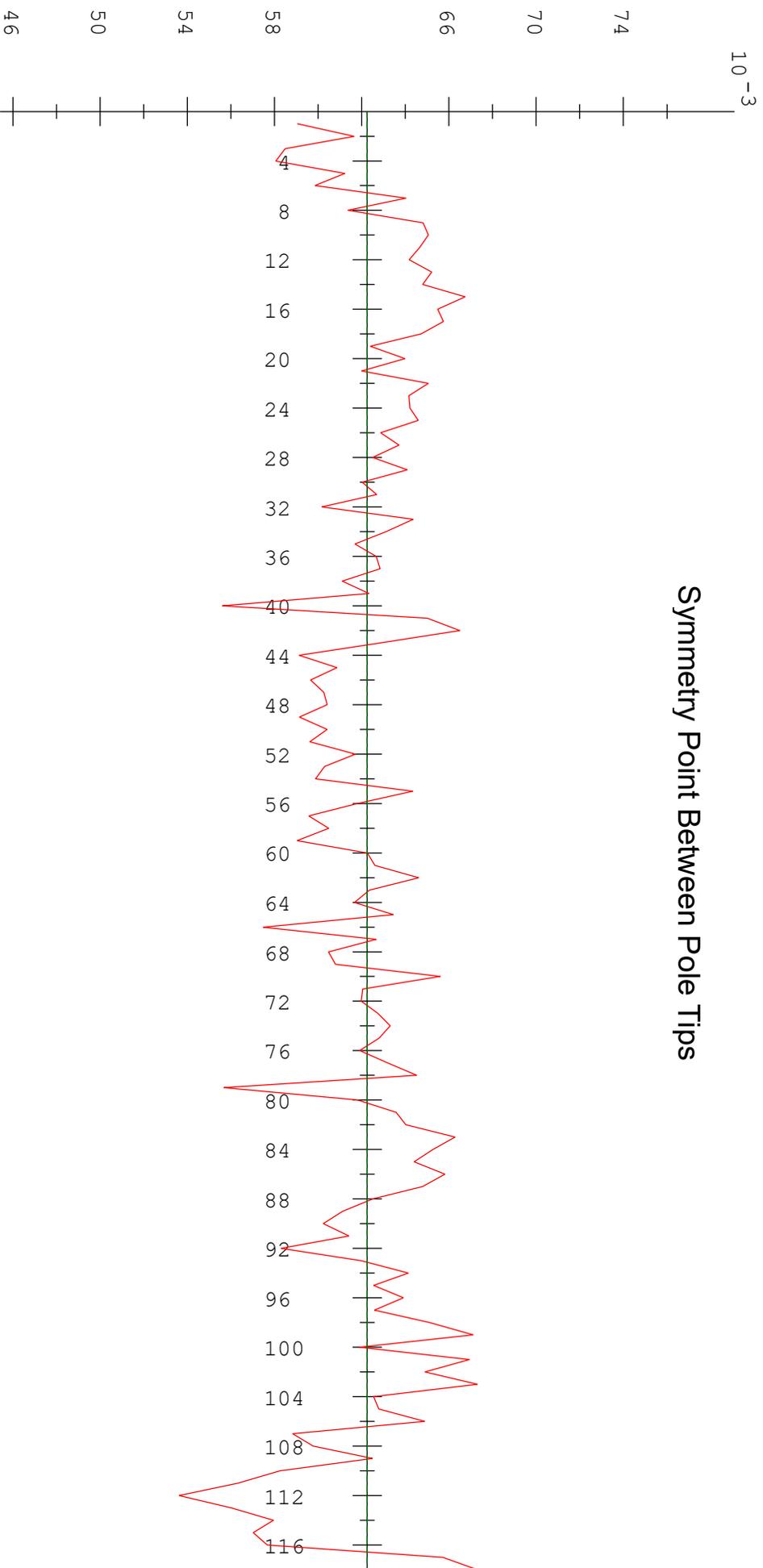
METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
Gap Reading = 10.0003      US Encoder = 10.0006      DS Encoder = 10.0001

14-AUG-2024  
S/N = 025  
D/S = 0001  
Run = 3

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0623

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
Gap Reading = 10.0003      US Encoder = 10.0006      DS Encoder = 10.0001

14-AUG-2024  
S/N = 025  
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>	5.0631	5.0627	5.0618	5.0614
<b>Bottom</b>	-4.9374	-4.9375	-4.9379	-4.9381
<b>Gap</b>	10.0005			9.9994
<b>Taper</b>				-0.0011

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0622	-4.9377	10.0000	0.0623

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	979.432
<b>Top Jaw Pitch (mrad)</b>	-0.001
<b>Bottom Jaw Pitch(mrad)</b>	0.000
<b>Minimum Effective Gap</b>	9.981
<b>Reference Block Gap</b>	6.795

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
 Gap Reading = 10.0003      US Encoder = 10.0006      DS Encoder = 10.0001

14-AUG-2024  
 S/N = 025  
 D/S = 0001  
 Run = 3