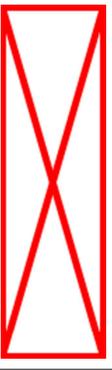


Y Value Scales Centered on Mean Values  
 Step Between Measured Pole Tips = 5

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

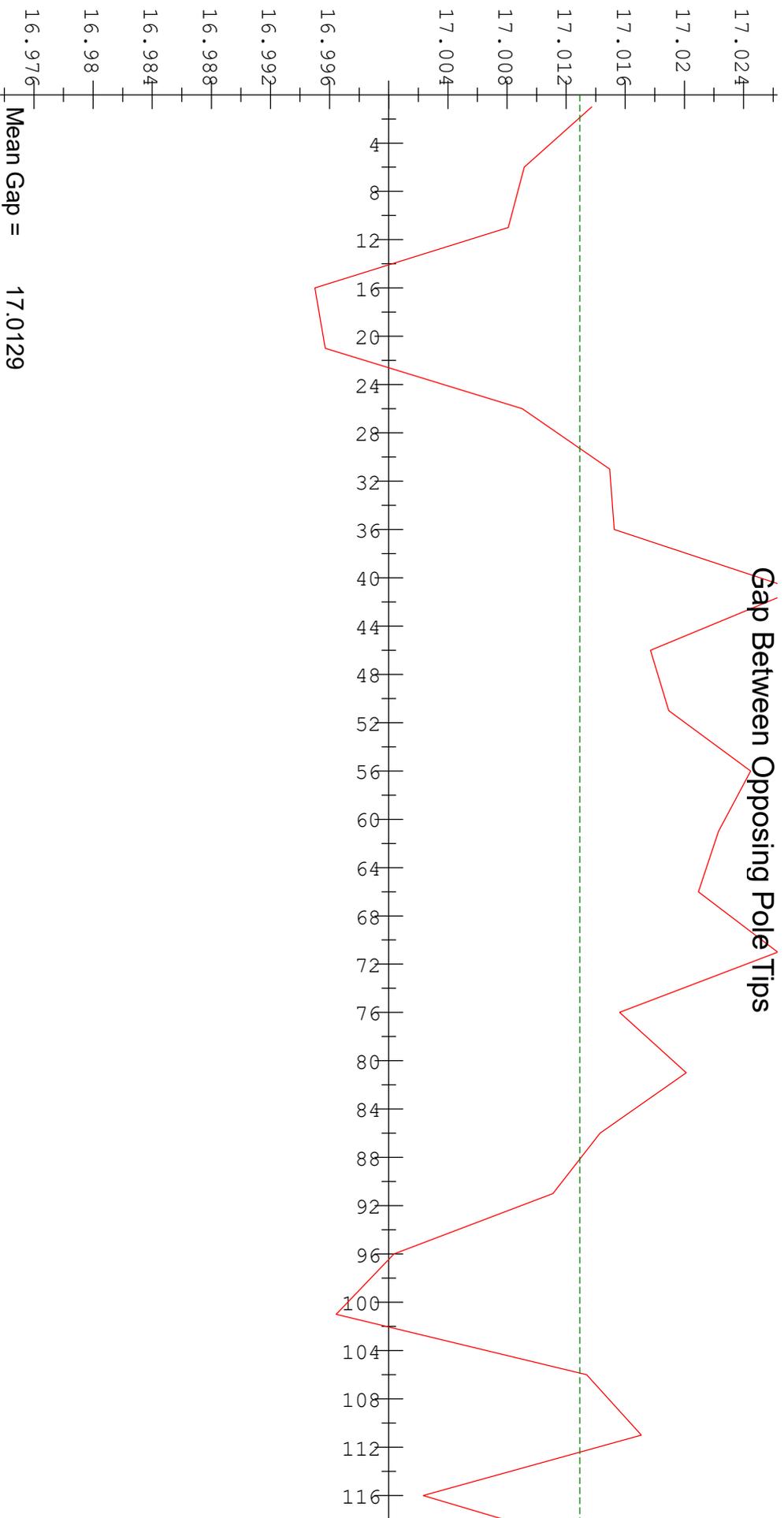


METROLOGY

# LCLS II-HE - SXR Undulator

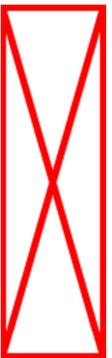
Nominal Gap = 17      Nominal Taper = 0.000  
 Gap Reading = 17.0000      US Encoder = 17.0000      DS Encoder = 17.0001

23-SEP-2024  
 S/N = 024  
 D/S = 0001  
 Run = 9



Step Between Measured Pole Tips = 5

Dimensions in mm



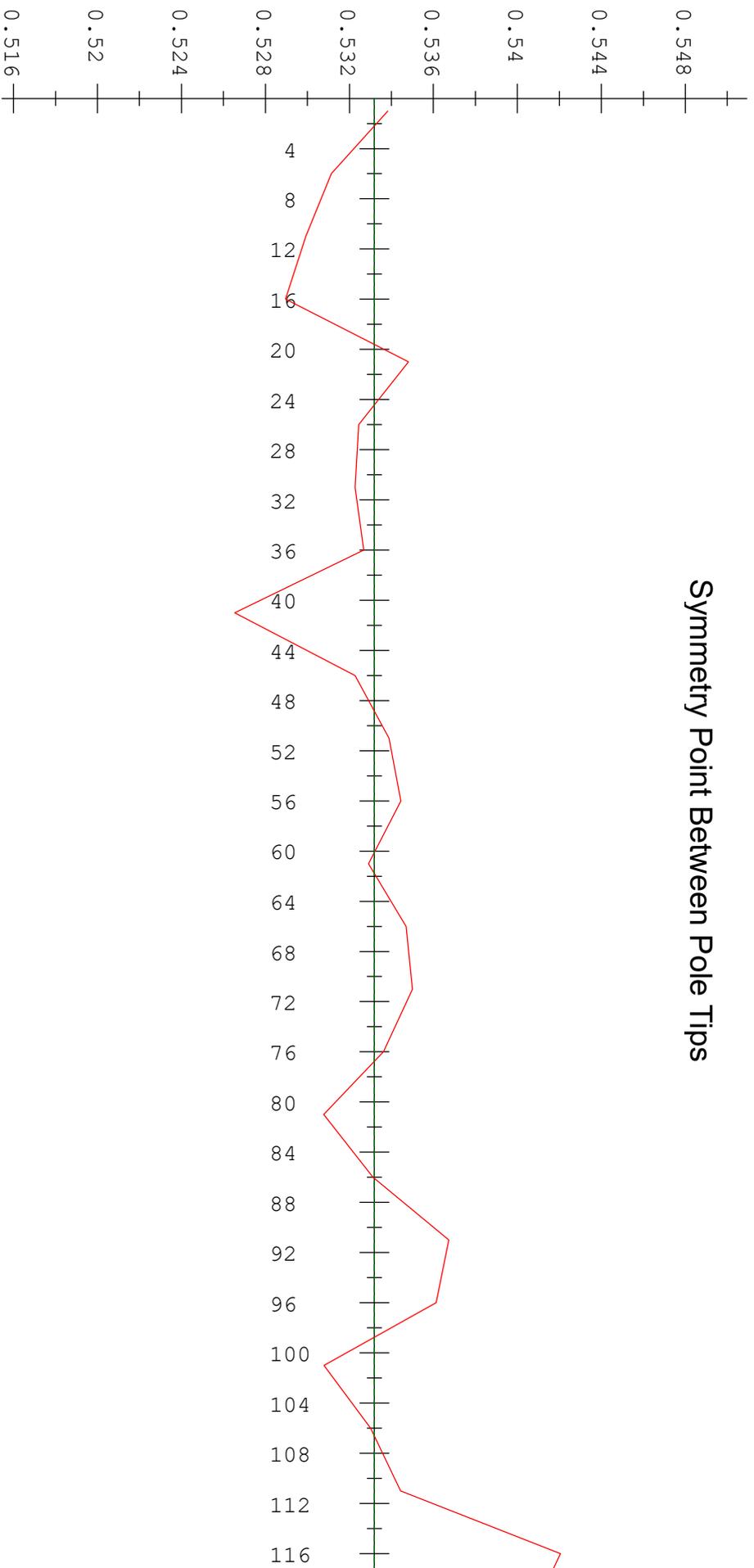
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 17      Nominal Taper = 0.000  
 Gap Reading = 17.0000      US Encoder = 17.0000      DS Encoder = 17.0001

23-SEP-2024  
 S/N = 024  
 D/S = 0001  
 Run = 9

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.5332

Step Between Measured Pole Tips = 5

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 17  
Nominal Taper = 0.000  
Gap Reading = 17.0000  
US Encoder = 17.0000  
DS Encoder = 17.0001

23-SEP-2024  
S/N = 024  
D/S = 0001  
Run = 9

## 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>	9.0367	9.0382	9.0414	9.0429
<b>Bottom</b>	-7.9759	-7.9745	-7.9713	-7.9699
<b>Gap</b>	17.0127			17.0128
<b>Taper</b>				0.0001

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
9.0396	-7.9733	17.0129	0.5332

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	978.595
<b>Top Jaw Pitch (mrad)</b>	0.002
<b>Bottom Jaw Pitch(mrad)</b>	0.002
<b>Minimum Effective Gap</b>	16.986
<b>Reference Block Gap</b>	6.799

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 17      Nominal Taper = 0.000  
 Gap Reading = 17.0000      US Encoder = 17.0000      DS Encoder = 17.0001

23-SEP-2024  
 S/N = 024  
 D/S = 0001  
 Run = 9