

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

Regression Line Through Points = 1
Dimensions in mm



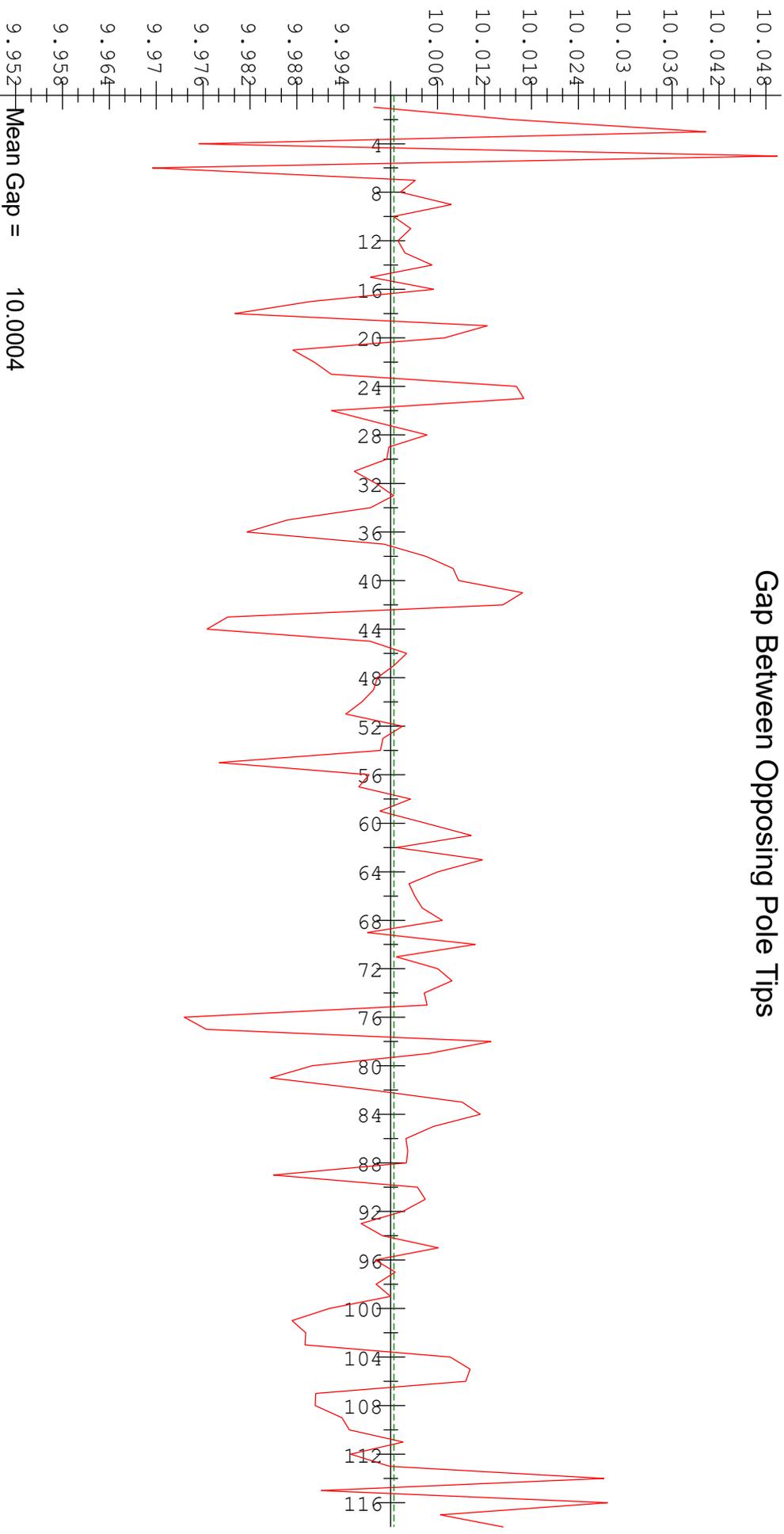
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10
Nominal Taper = 0.000
Gap Reading = 10.0001
US Encoder = 10.0000
DS Encoder = 10.0001

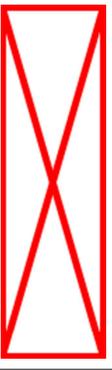
17-JUL-2024
S/N = 023
D/S = 0001
Run = 33

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

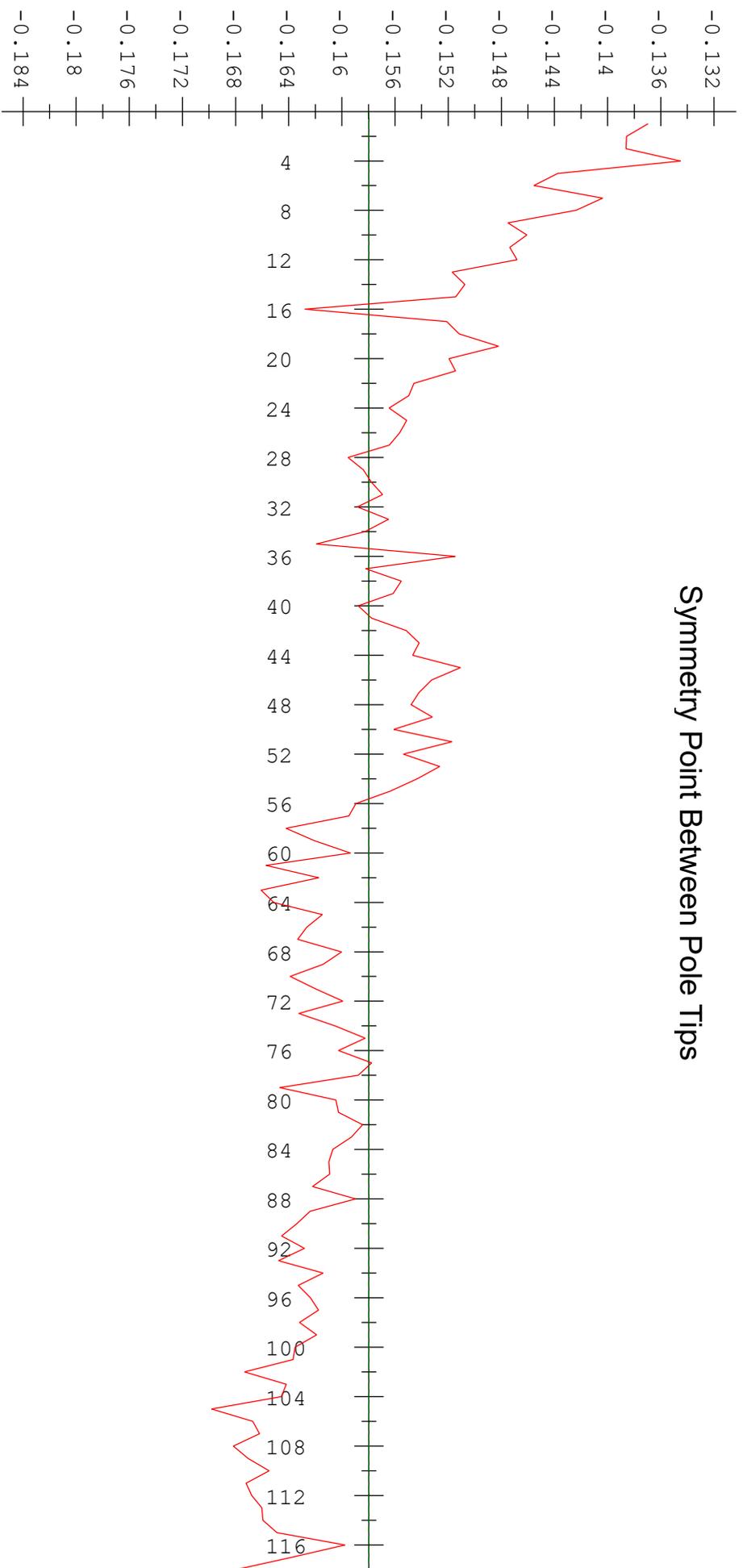
LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 10.0001 US Encoder = 10.0000 DS Encoder = 10.0001

17-JUL-2024
S/N = 023
D/S = 0001
Run = 33

Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.1580

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
Gap Reading = 10.0001 US Encoder = 10.0000 DS Encoder = 10.0001

17-JUL-2024
S/N = 023
D/S = 0001
Run = 33

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>
Top	4.8525	4.8478	4.8369	4.8319
Bottom	-5.1482	-5.1528	-5.1634	-5.1681
Gap	10.0007			10.0001
Taper				-0.0007

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.8422	-5.1582	10.0004	-0.1580

Additional Calculated Values

Bottom Pole #1 Z Value	979.450
Top Jaw Pitch (mrad)	-0.006
Bottom Jaw Pitch(mrad)	-0.006
Minimum Effective Gap	9.949
Reference Block Gap	6.799

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 10.0001 US Encoder = 10.0000 DS Encoder = 10.0001

17-JUL-2024
 S/N = 023
 D/S = 0001
 Run = 33