Y Dev.from Mean

10^{-3}

Top Jaw Pole Tips

Mean TOP = 4.7120   Regression Line Ang. (mrad) = -0.0004

Y Dev.from Mean

10^{-3}

Pole Tip Num. --->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.933

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

Mean BTM = -5.2569   Regression Line Ang. (mrad) = -0.0073

Regression Line Through Points = – – – –
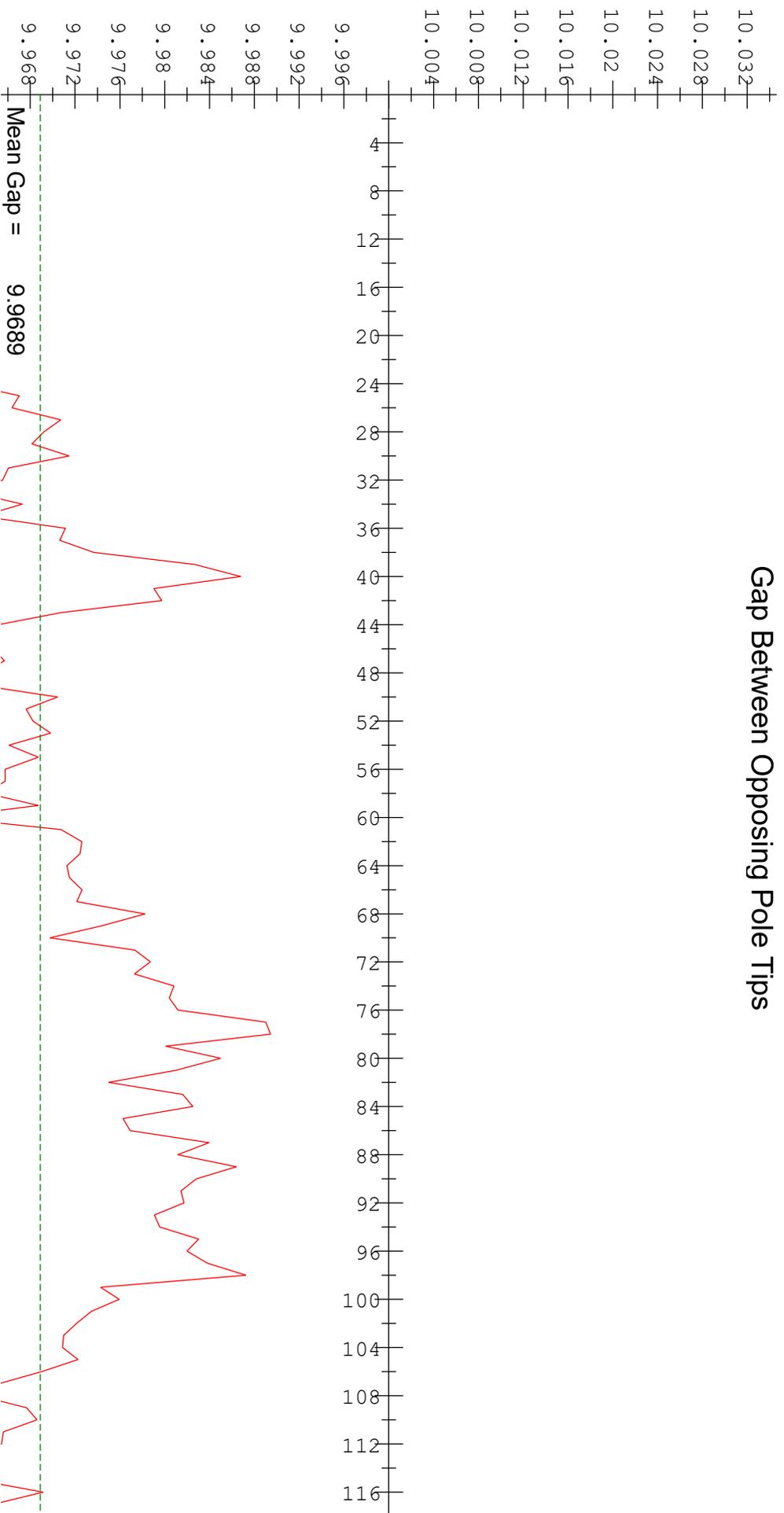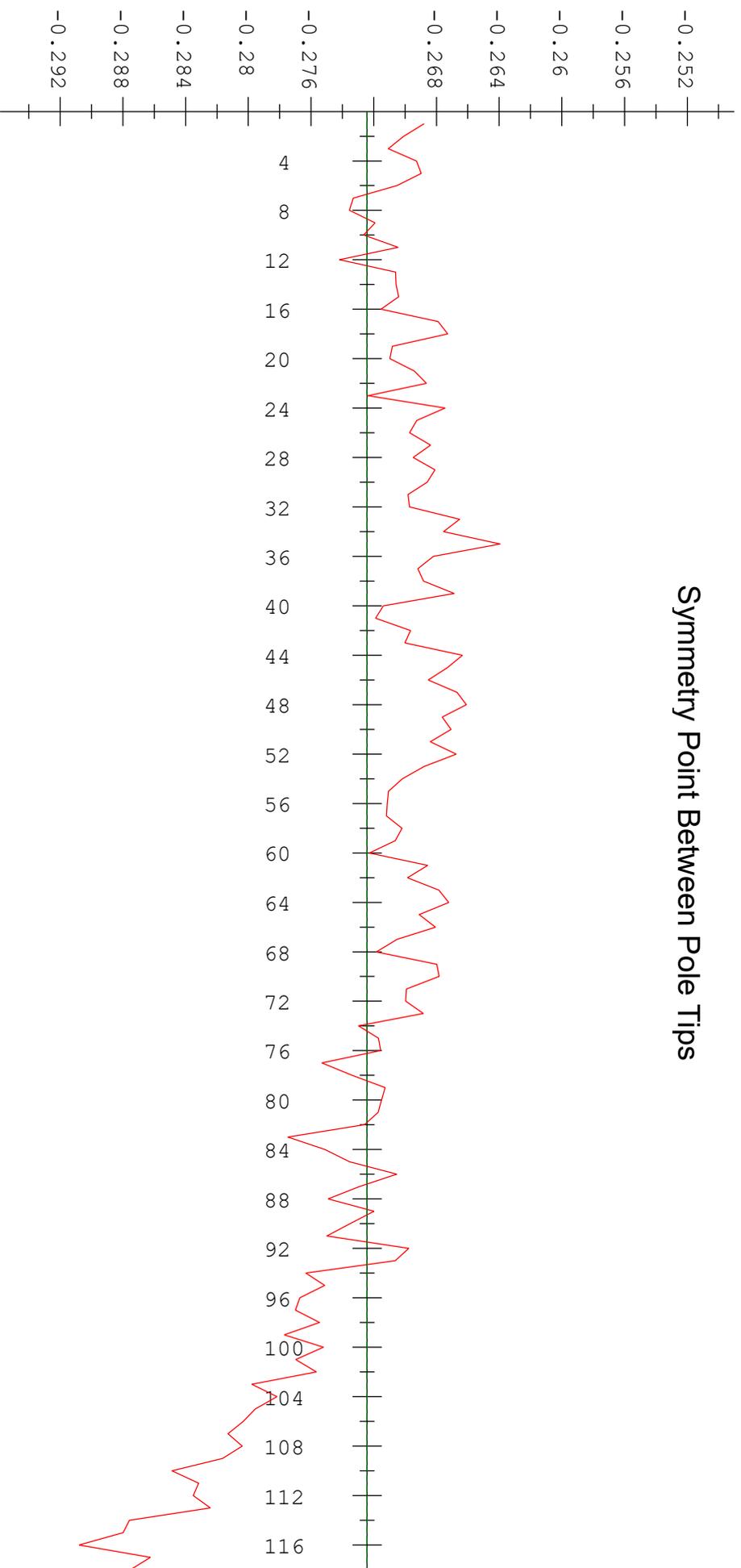Dimensions in mm
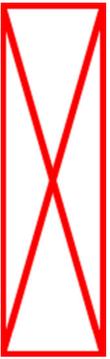
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 9.9999   US Encoder = 10.0000   DS Encoder = 9.9997

14-JAN-2025
S/N = 029
D/S= 0001
Run= 2

Gap Between Opposing Pole Tips

Step Between Measured Pole Tips = 1

Mean Gap = 9.9689

LCLS II-HE - SXR Undulator

METROLOGY

| Nominal Gap = 10 | Nominal Taper = 0.000 |
| Gap Reading = 9.9999 | US Encoder = 10.0000 | DS Encoder = 9.9997 |

Dimensions in mm

14-JAN-2025
S/N = 029
D/S = 0001
Run = 2

Mean Gap = 9.9689

Symmetry Point Between Pole Tips

Mean Symmetry Value = -0.2724

Step Between Measured Pole Tips = 1

LCLS II-HE - SXR Undulator

METROLOGY	Nominal Gap = 10	Nominal Taper = 0.000	Dimensions in mm
	Gap Reading = 9.9999	US Encoder = 10.0000	14-JAN-2025
		DS Encoder = 9.9997	S/N = 029
			D/S = 0001
			Run= 2

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 28)	DS Actuator (Pole 90)	Last Pole (Pole 118)
Top	4.7127	4.7124	4.7117	4.7113
Bottom	-5.2448	-5.2504	-5.2631	-5.2689
Gap	9.9576			9.9802
Taper				0.0227

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.7120	-5.2569	9.9689	-0.2724

Additional Calculated Values

Bottom Pole #1 Z Value	978.618
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	-0.007
Minimum Effective Gap	9.933
Reference Block Gap	6.794

LCLS II-HE - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 9.9999   US Encoder = 10.0000   DS Encoder = 9.9997

14-JAN-2025
S/N =   029
D/S=   0001
Run=   2

Dimensions in mm