

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

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



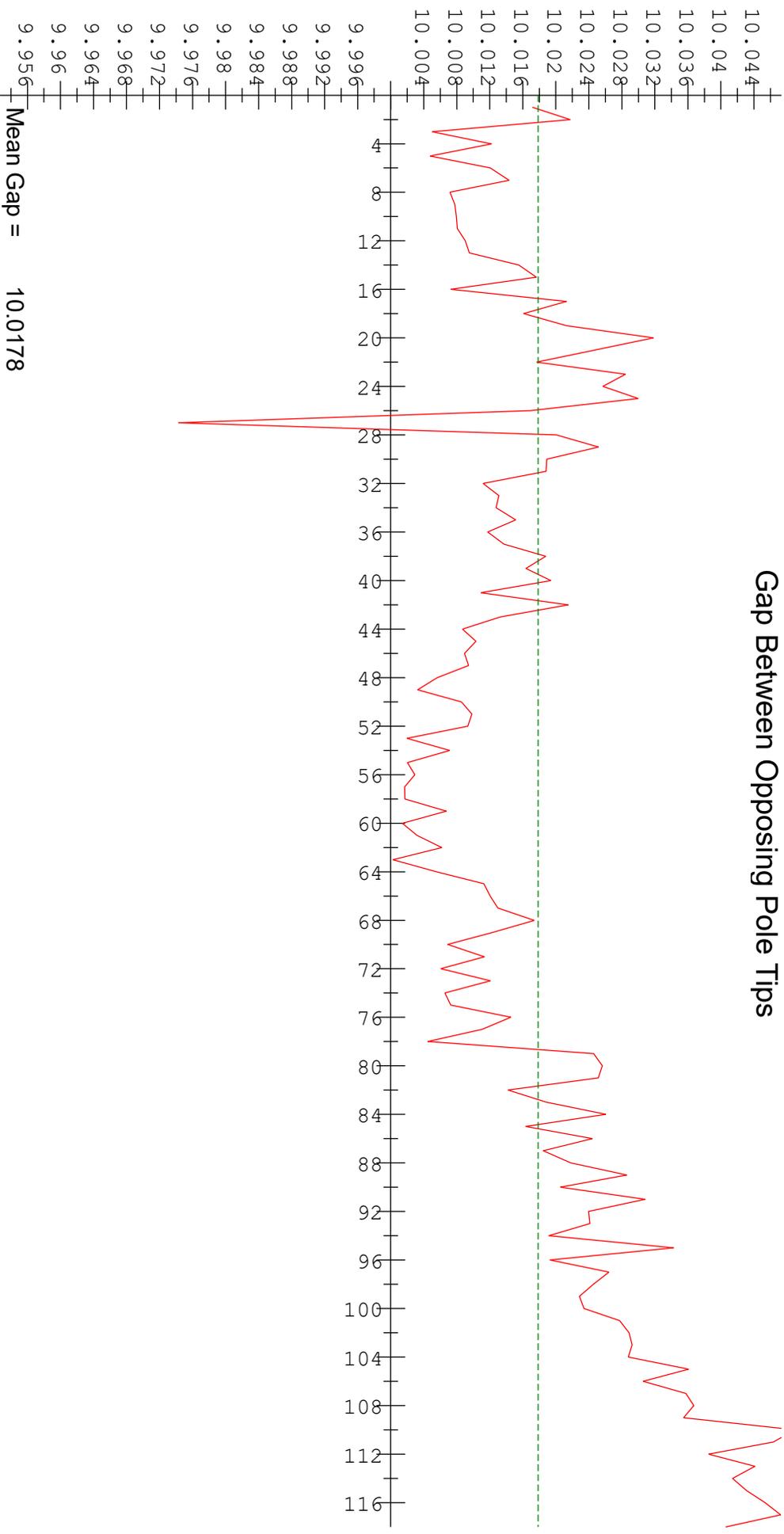
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 10.0002 US Encoder = 10.0001 DS Encoder = 10.0002

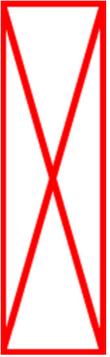
16-JUN-2025
 S/N = 006
 D/S = 0001
 Run = 4

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



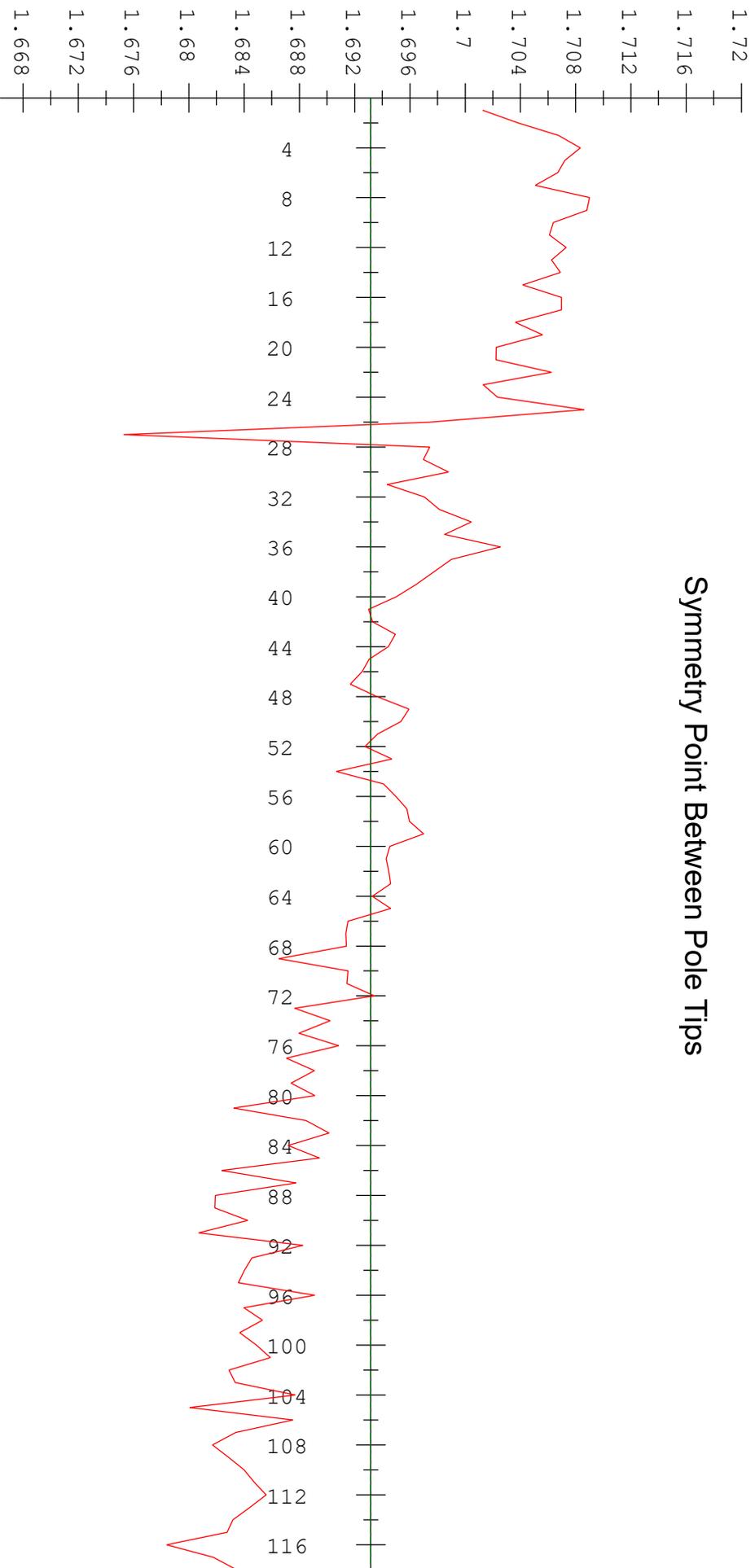
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
Gap Reading = 10.0002 US Encoder = 10.0001 DS Encoder = 10.0002

16-JUN-2025
S/N = 006
D/S = 0001
Run = 4

Symmetry Point Between Pole Tips



Mean Symmetry Value = 1.6932

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
Gap Reading = 10.0002 US Encoder = 10.0001 DS Encoder = 10.0002

16-JUN-2025
S/N = 006
D/S = 0001
Run = 4

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	6.7091	6.7059	6.6984	6.6951
Bottom	-3.2969	-3.3056	-3.3256	-3.3346
Gap	10.0060			10.0296
Taper				0.0236

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.7021	-3.3158	10.0178	1.6932

Additional Calculated Values

Bottom Pole #1 Z Value	978.686
Top Jaw Pitch (mrad)	-0.004
Bottom Jaw Pitch(mrad)	-0.011
Minimum Effective Gap	9.957
Reference Block Gap	6.797

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 10.0002 US Encoder = 10.0001 DS Encoder = 10.0002

16-JUN-2025
 S/N = 006
 D/S = 0001
 Run = 4