

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

LCLS II-HE - SXR Undulator

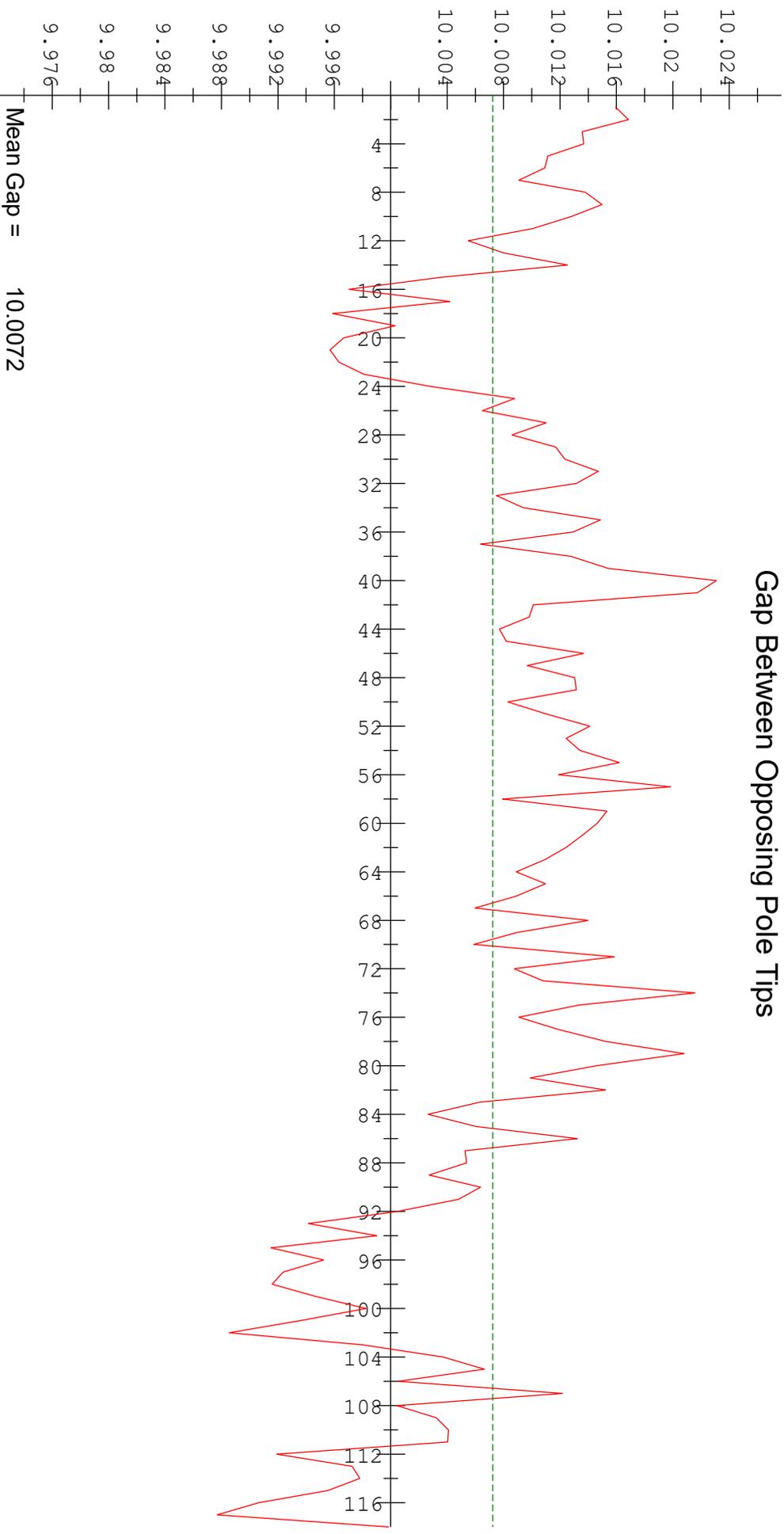
Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 10.0002 US Encoder = 10.0001 DS Encoder = 10.0003

23-SEP-2024
 S/N = 024
 D/S = 0001
 Run = 3



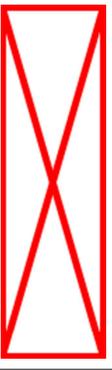
METROLOGY

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



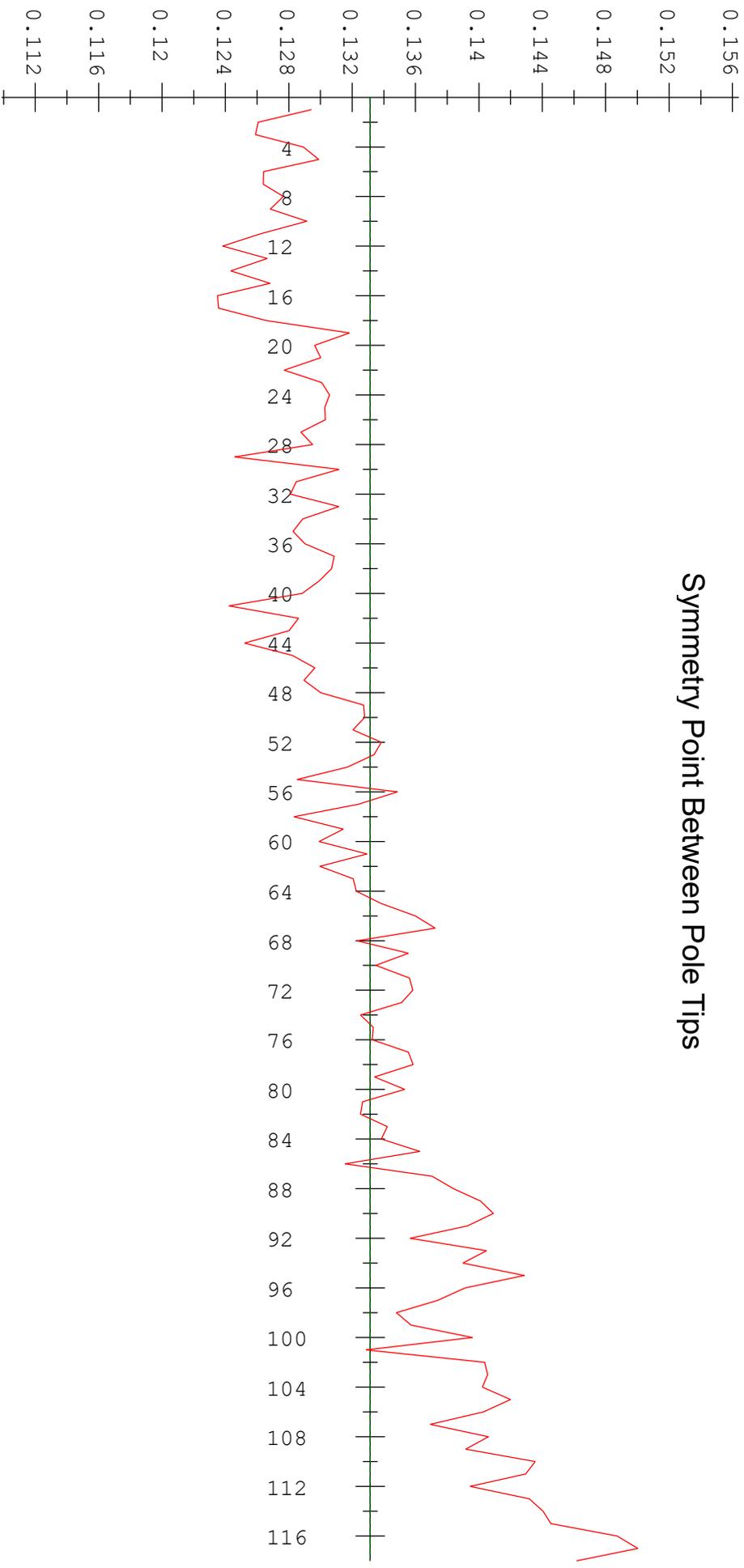
METROLOGY

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Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.1331

Step Between Measured Pole Tips = 1

Dimensions in mm



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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	5.1311	5.1337	5.1397	5.1424
Bottom	-4.8820	-4.8767	-4.8645	-4.8590
Gap	10.0131			10.0014
Taper				-0.0117

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1368	-4.8705	10.0072	0.1331

Additional Calculated Values

Bottom Pole #1 Z Value	978.595
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	0.007
Minimum Effective Gap	9.966
Reference Block Gap	6.799

Dimensions in mm



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