

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

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



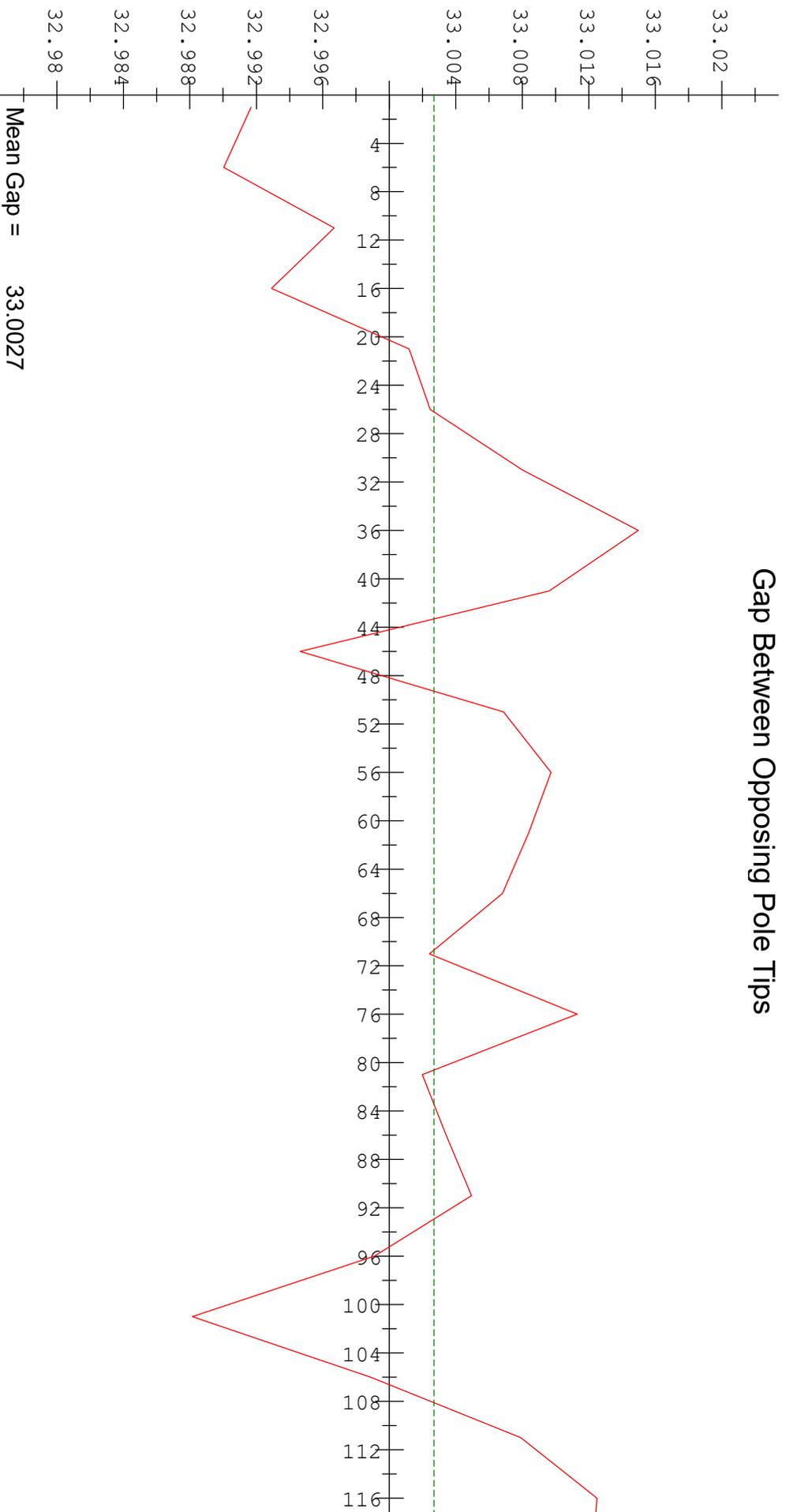
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 33
Gap Reading = 33.0000
US Encoder = 33.0001
DS Encoder = 33.0000

15-OCT-2024
S/N = 027
D/S = 0001
Run = 10

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm



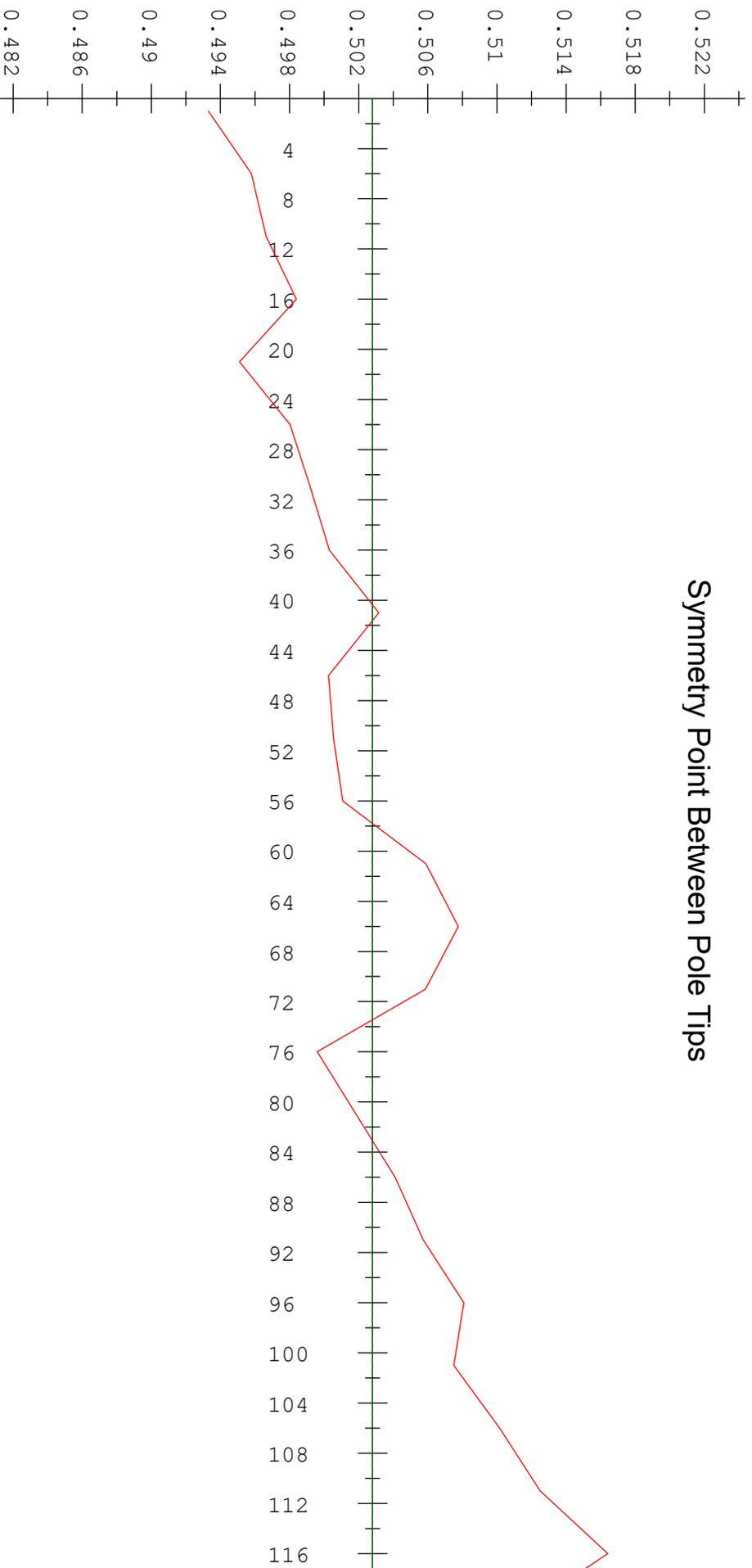
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 33
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Nominal Taper = 0.000
DS Encoder = 33.0000

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Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.5028

Step Between Measured Pole Tips = 5

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	16.9936	16.9986	17.0102	17.0155
Bottom	-16.0052	-16.0021	-15.9949	-15.9917
Gap	32.9988			33.0072
Taper				0.0084

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
17.0041	-15.9985	33.0027	0.5028

Additional Calculated Values

Bottom Pole #1 Z Value	978.897
Top Jaw Pitch (mrad)	0.007
Bottom Jaw Pitch(mrad)	0.004
Minimum Effective Gap	32.976
Reference Block Gap	6.801

Dimensions in mm



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