Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 5.8701   Regression Line Ang. (mrad) = 0.0018

Bottom Jaw Pole Tips

Pole Tip Num. --->

Y Dev.from Mean

Mean BTM = -5.1384   Regression Line Ang. (mrad) = 0.0018
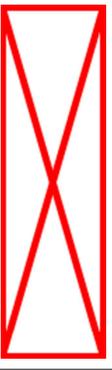
Minimum Effective Gap = 10.982

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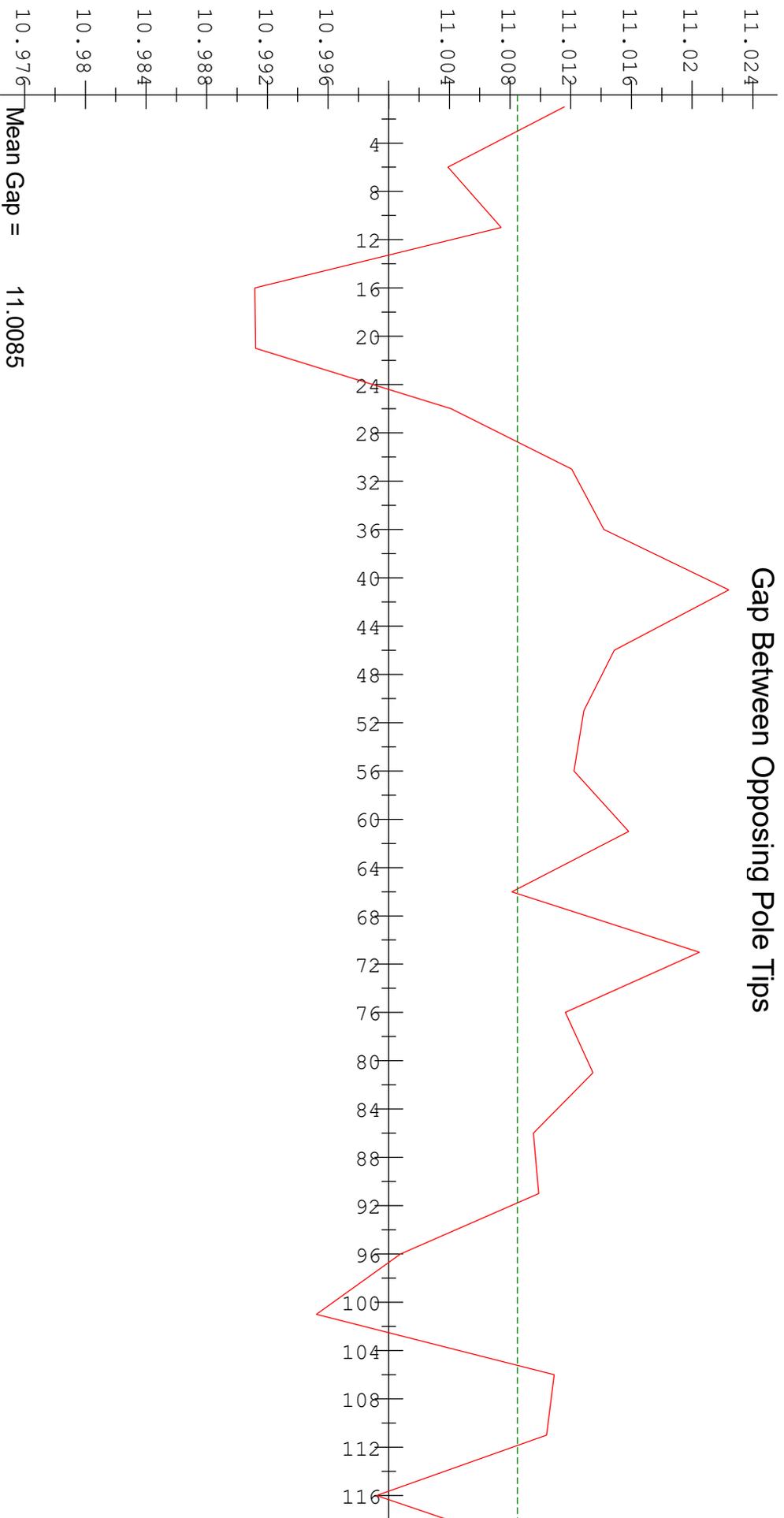Step Between Measured Pole Tips = 5

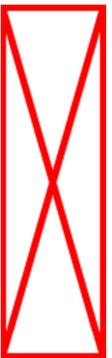Regression Line Through Points = ------
Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000
Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0000

23-SEP-2024
S/N = 024
D/S= 0001
Run= 7

LCLS II-HE - SXR Undulator

METROLOGY

Nominal Gap = 11 **Nominal Taper = 0.000**

Gap Reading = 11.0000

Nominal Gap = 11

US Encoder = 11.0000   DS Encoder = 11.0000

Step Between Measured Pole Tips = 5

Mean Gap =   11.0085

23-SEP-2024
S/N =   024
D/S=   0001
Run=   7

Dimensions in mm

Gap Between Opposing Pole Tips

Symmetry Point Between Pole Tips

Dimensions in mm

23-SEP-2024

S/N = 024
D/S = 0001
Run= 7

LCLS II-HE - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0000

Step Between Measured Pole Tips =   5
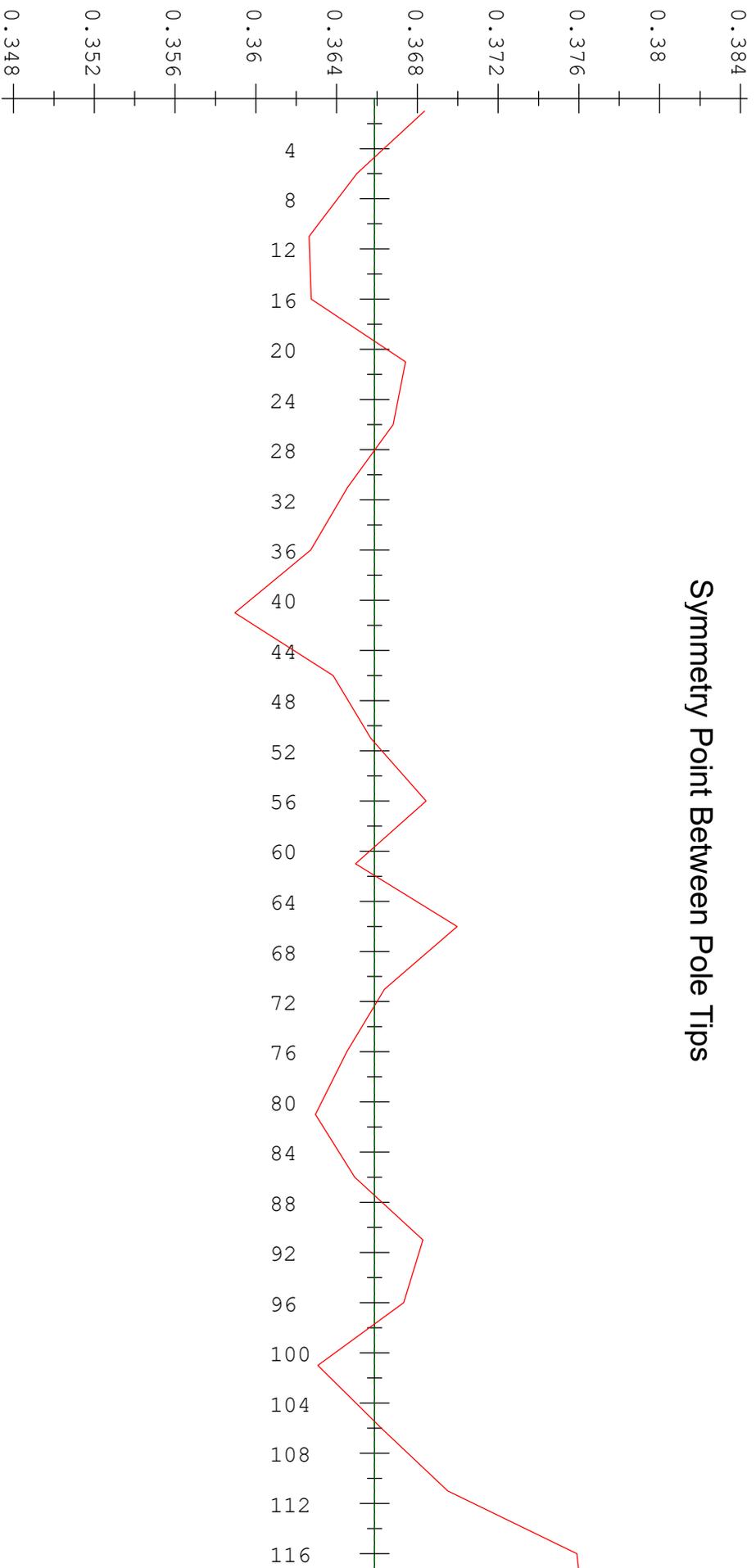
Mean Symmetry Value =   0.3659

METROLOGY

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	5.8673	5.8687	5.8719	5.8734
Bottom	-5.1409	-5.1395	-5.1364	-5.1350
Gap	11.0083		11.0083	
Taper				0.0001

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.8701	-5.1384	11.0085	0.3659

Additional Calculated Values

Bottom Pole #1 Z Value	978.595
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	10.982
Reference Block Gap	6.799

LCLS II-HE - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Nominal Gap = 11.0000

Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0000

METROLOGY

Dimensions in mm

23-SEP-2024
S/N = 024
D/S= 0001
Run= 7