LCLS II-HE - SXR Undulator

METROLOGY

Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 5.1183   Regression Line Ang. (mrad) = -0.0125

Pole Tip Num. --->

Bottom Jaw Pole Tips

Y Dev.from Mean

Minimum Effective Gap = 9.917

Mean BTM = -4.8967   Regression Line Ang. (mrad) = -0.0115

Y Dev.from Mean

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

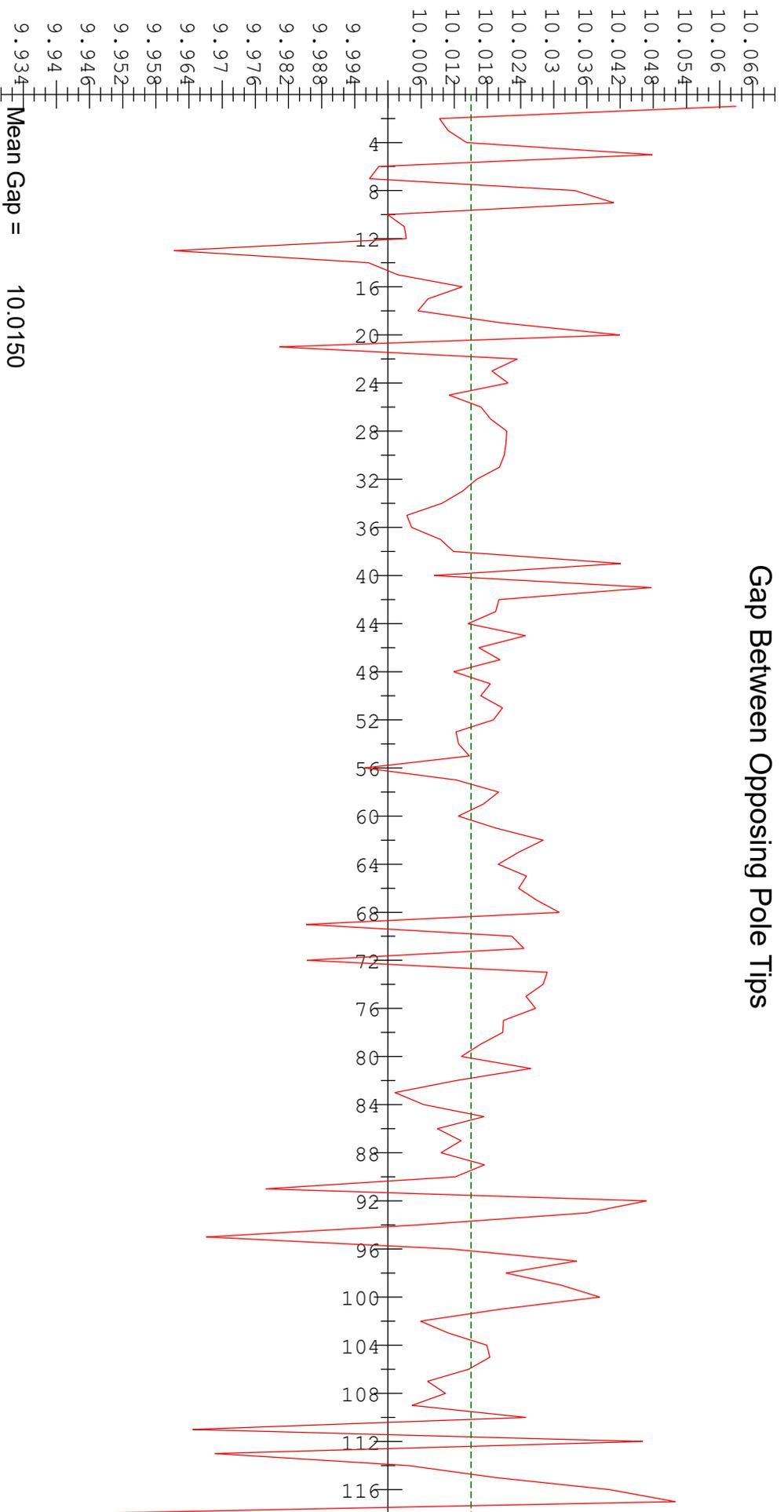Regression Line Through Points = ------
Dimensions in mm

Nominal Gap = 10   Nominal Taper = 0.000

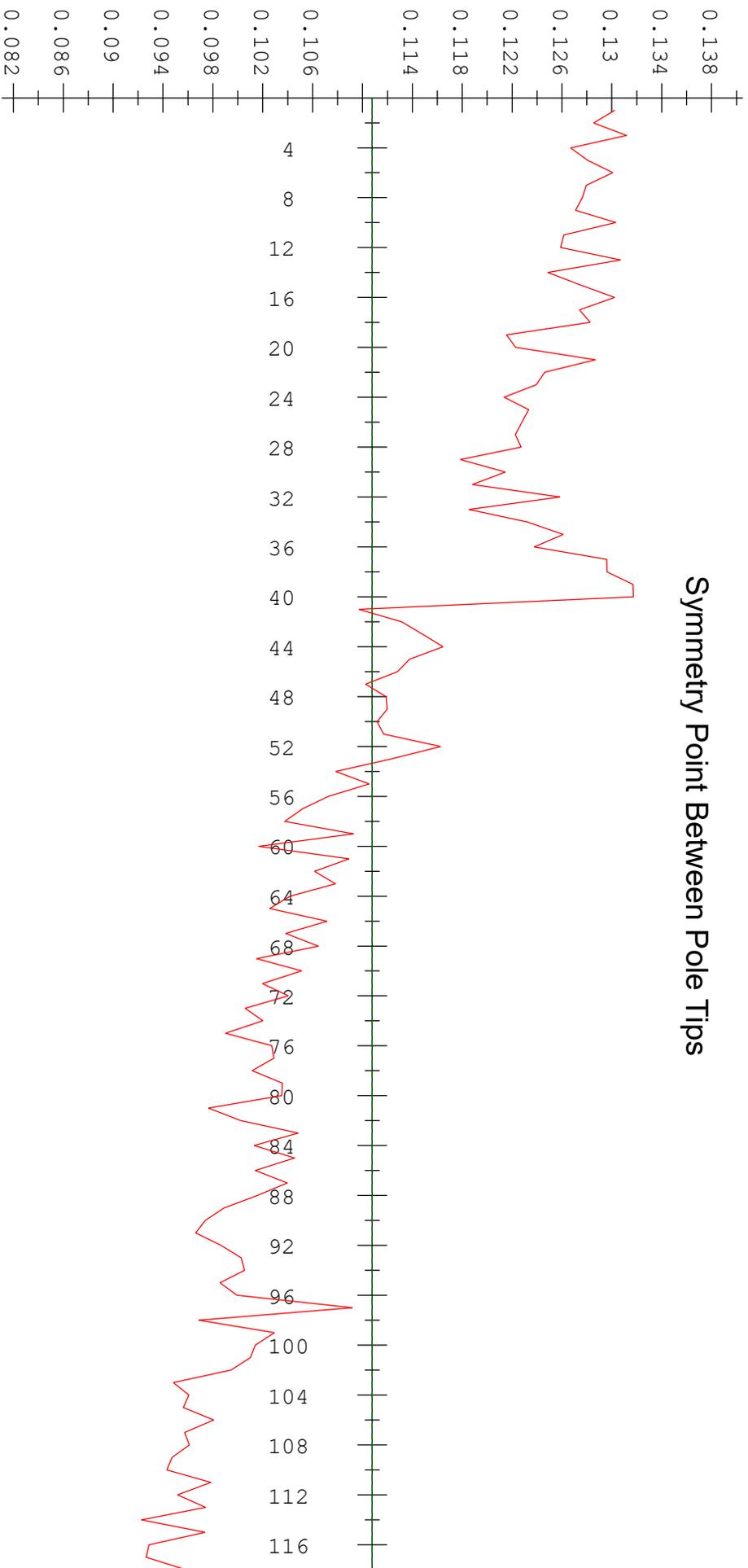|	28-JUN-2023
Gap Reading = 10.0000	S/N = 000
US Encoder = 10.0000	D/S= 0003
DS Encoder = 10.0000	Run= 2

Gap Between Opposing Pole Tips

METROLOGY

LCLS II-HE - SXR Undulator

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

Step Between Measured Pole Tips = 1

Mean Gap = 10.0150

Dimensions in mm

28-JUN-2023
S/N = 000
D/S = 0003
Run = 2

Symmetry Point Between Pole Tips

Dimensions in mm

LCLS II-HE - SXR Undulator

Nominal Gap = 10	Nominal Taper = 0.000	28-JUN-2023
		S/N = 000
		D/S= 0003
Gap Reading = 10.0000	US Encoder = 10.0000 DS Encoder = 10.0000	Run= 2

Mean Symmetry Value = 0.1108

Step Between Measured Pole Tips = 1

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	5.1387	5.1293	5.1076	5.0978
Bottom	-4.8779	-4.8866	-4.9066	-4.9156
Gap	10.0166			10.0134
Taper				-0.0032

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1183	-4.8967	10.0150	0.1108

Additional Calculated Values

Bottom Pole #1 Z Value	974.878
Top Jaw Pitch (mrad)	-0.012
Bottom Jaw Pitch(mrad)	-0.012
Minimum Effective Gap	9.917
Reference Block Gap	6.798

LCLS II-HE - SXR Undulator

Nominal Gap = 10

Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

Nominal Gap = 10.0000

28-JUN-2023
S/N =   000
D/S=   0003
Run=   2

Dimensions in mm

METROLOGY