Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP = 4.5249   Regression Line Ang. (mrad) = 0.0030

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 8.821

10^{-3}

Y Dev. from Mean

Mean BTM = -4.3895   Regression Line Ang. (mrad) = 0.0103

Y Value Scales Centered on Mean Values   Regression Line Through Points =————
Step Between Measured Pole Tips = 7

Dimensions in mm

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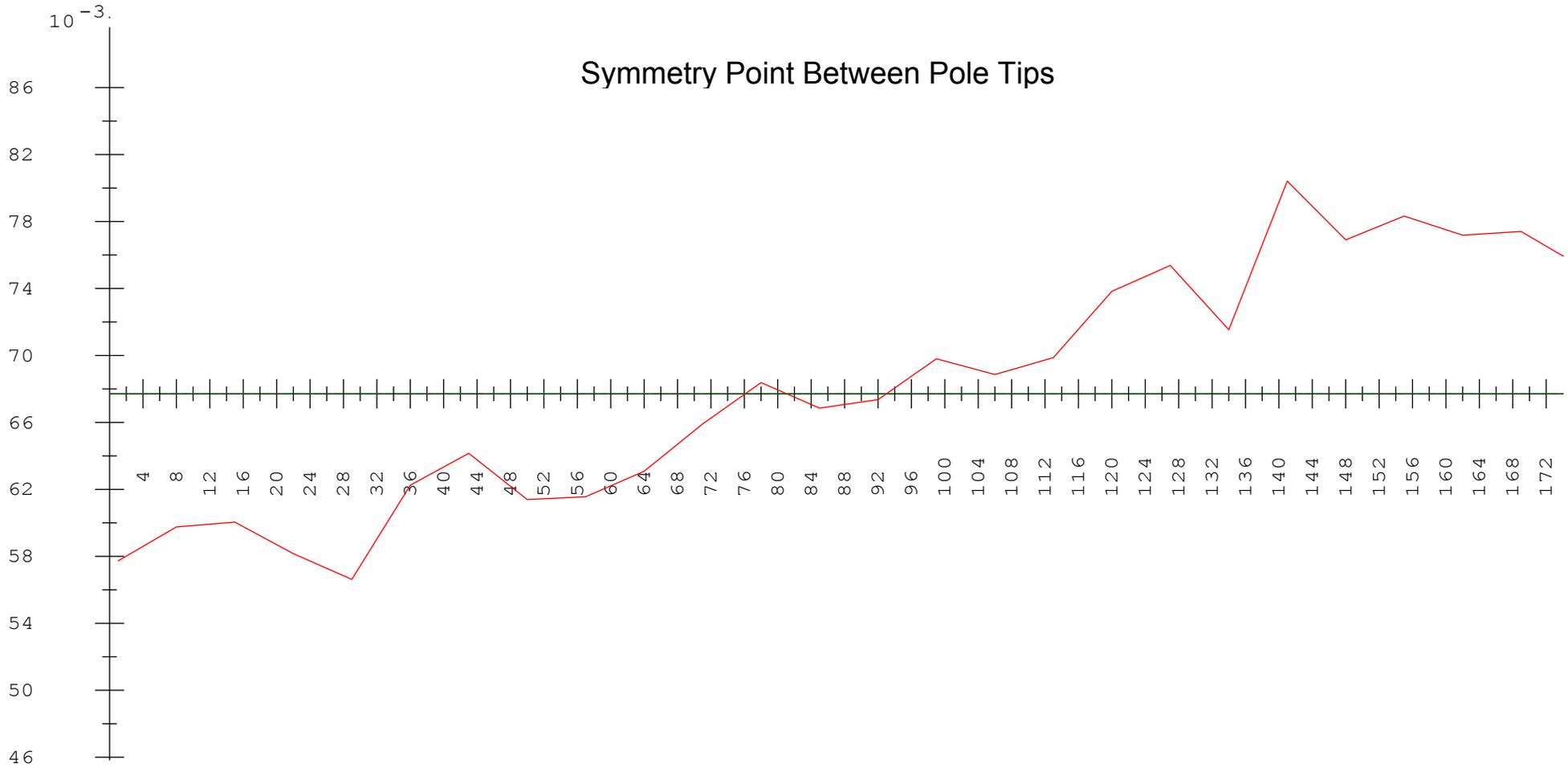**METROLOGY**

LCLS II - SXR Undulator

Nominal Gap = 9   Nominal Taper = 0.000

Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

13-SEP-2018
S/N = 001
D/S= 0004
Run= 3

Gap Between Opposing Pole Tips
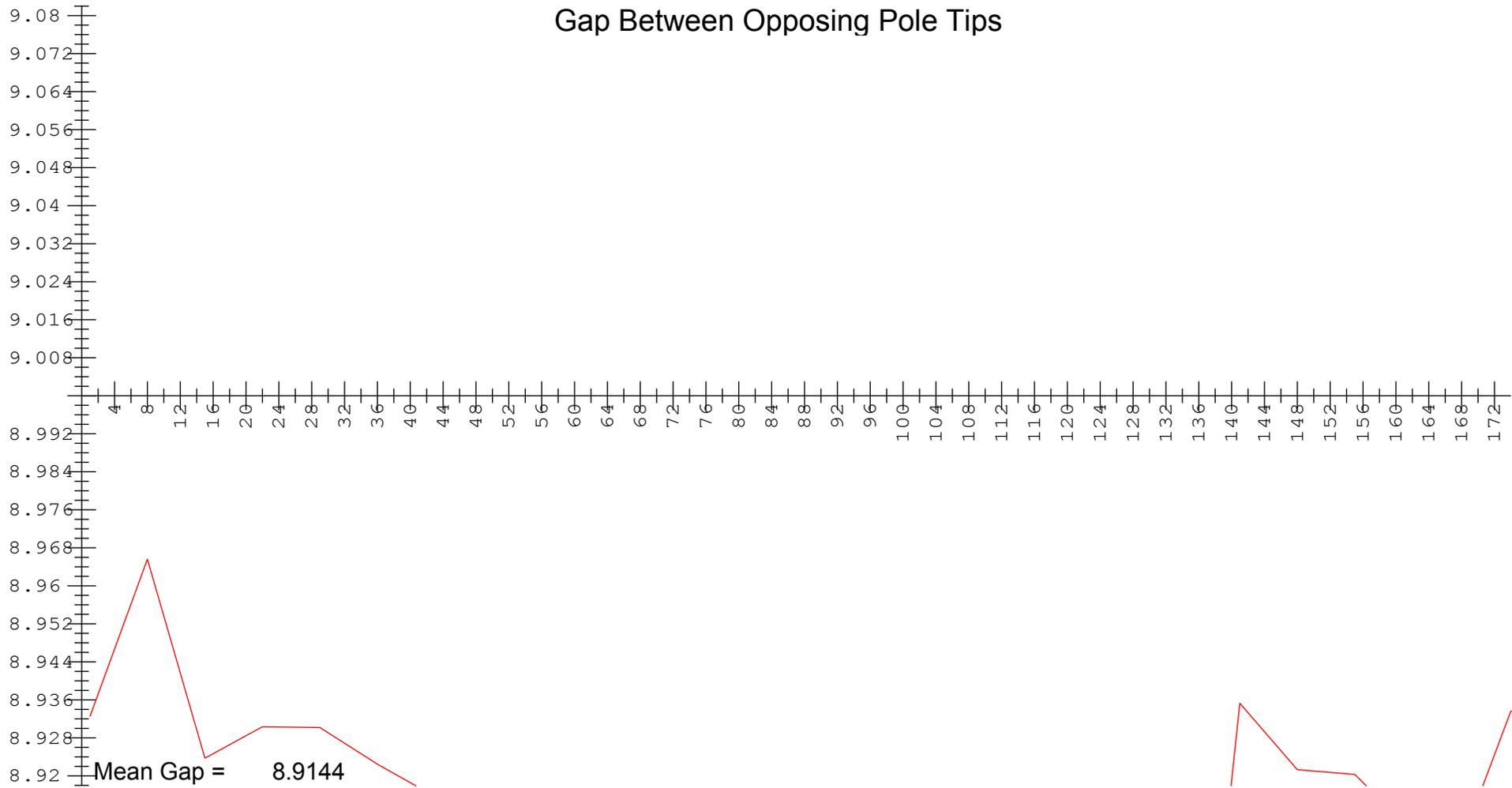
Mean Gap =   8.9144

Step Between Measured Pole Tips =   7   Dimensions in mm

LCLS II - SXR Undulator		13-SEP-2018
Nominal Gap = 9 Nominal Taper = 0.000		S/N = 001
Gap Reading = 9.0000 US Encoder = 9.0000 DS Encoder = 9.0000		D/S= 0004
		Run= 3

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Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0677

Step Between Measured Pole Tips =   7

Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 9   Nominal Taper = 0.000
Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

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13-SEP-2018
S/N =   001
D/S=   0004
Run=   3

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	4.5205	4.5227	4.5283	4.5306
Bottom	-4.4071	-4.3995	-4.3802	-4.3723
Gap	8.9276			8.9029
Taper				-0.0247

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.5249	-4.3895	8.9144	0.0677

Additional Calculated Values

Bottom Pole #1 Z Value	979.975
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	0.010
Minimum Effective Gap	8.821
Reference Block Gap	6.807

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 9   Nominal Taper = 0.000
Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

13-SEP-2018
S/N = 001
D/S= 0004
Run= 3