Top Jaw Pole Tips

Y Dev. from Mean

Pole Tip Num. ---->

Mean TOP = 5.0913   Regression Line Ang. (mrad) = 0.0577

Minimum Effective Gap = 9.813

Bottom Jaw Pole Tips

Y Dev. from Mean

Mean BTM = -4.9243   Regression Line Ang. (mrad) = 0.0602

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 60

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

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

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S/N = 001
D/S= 0007
Run= 17

Gap Between Opposing Pole Tips

Mean Gap =   10.0157

Step Between Measured Pole Tips =   60

Dimensions in mm

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0835

Step Between Measured Pole Tips =   60
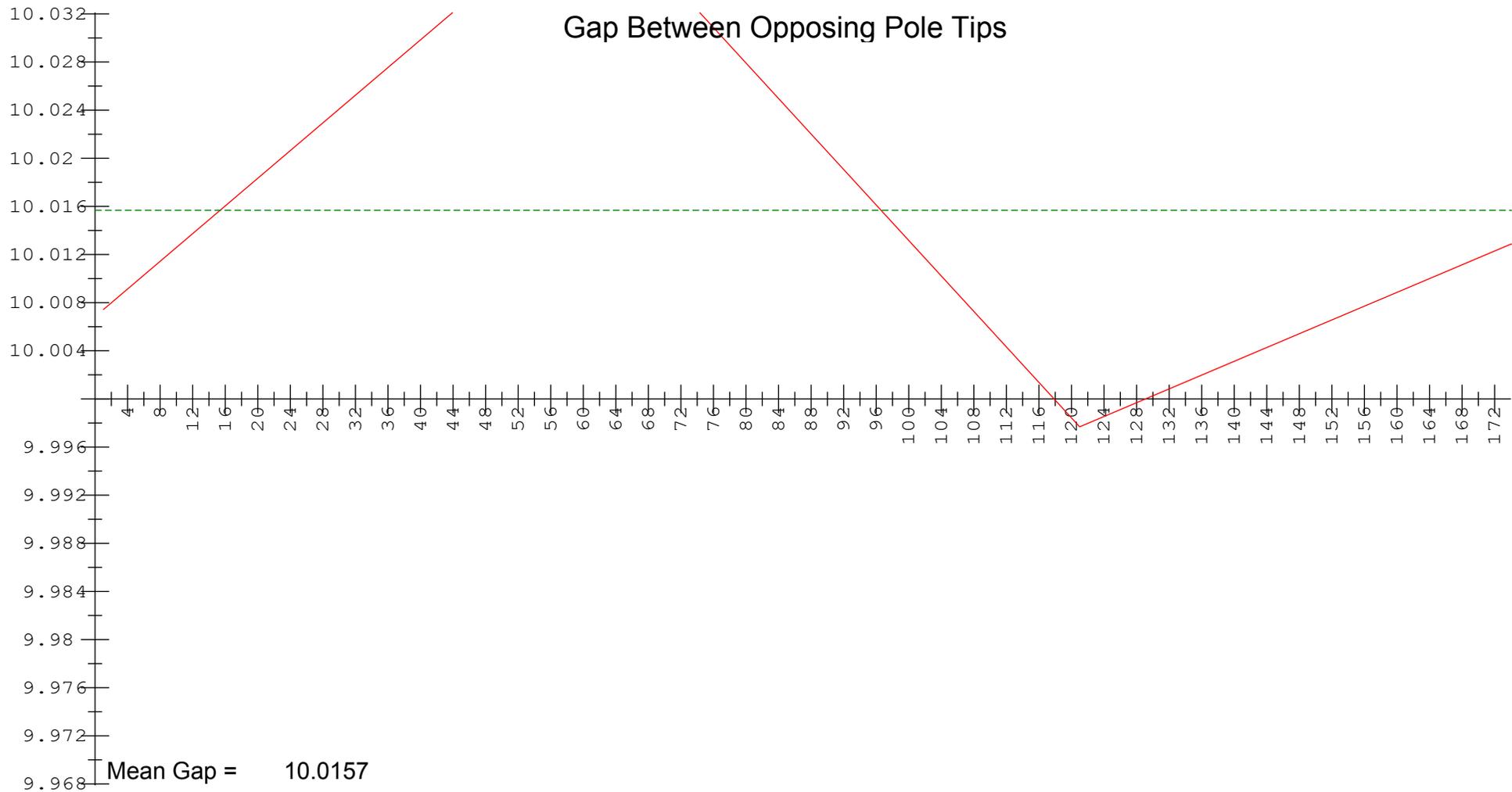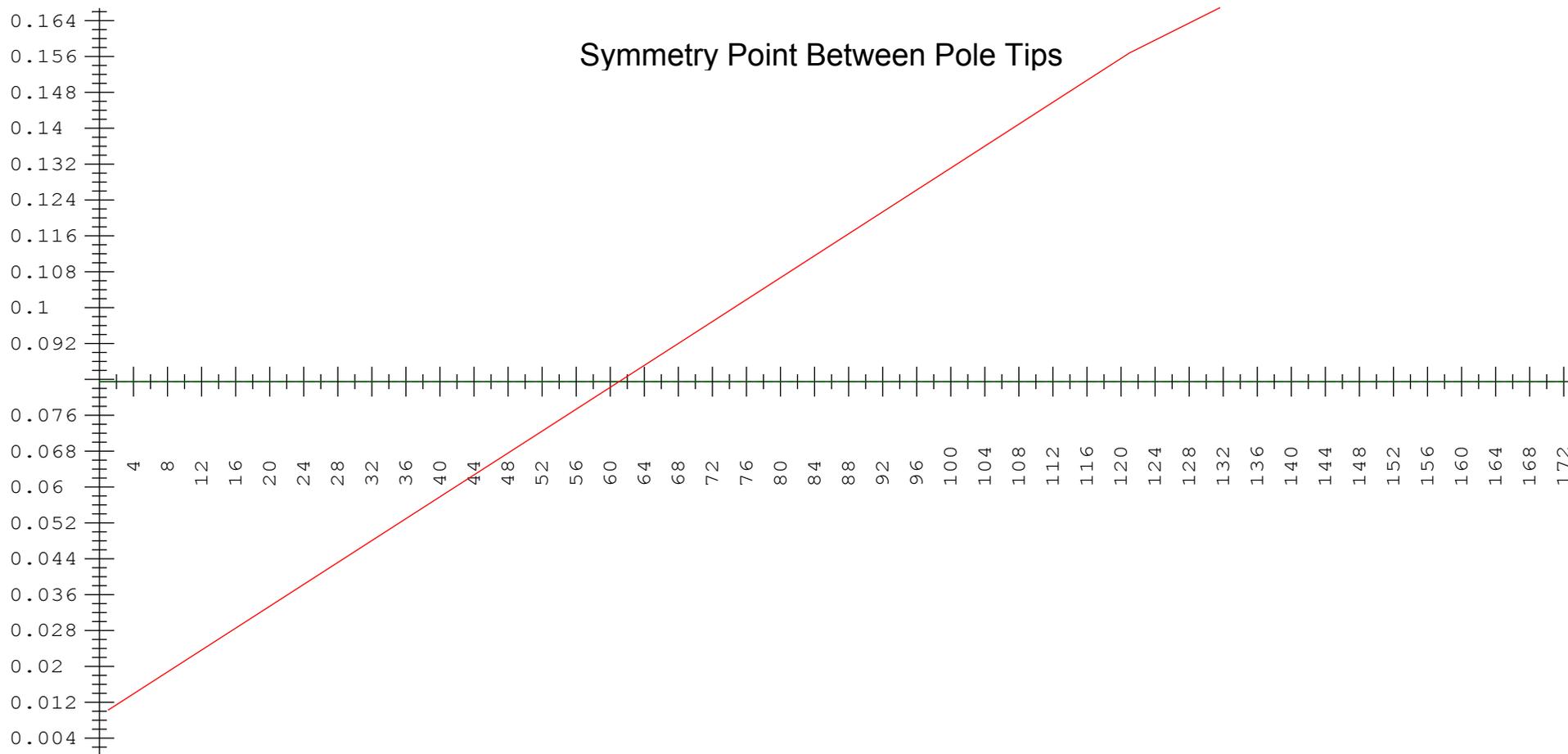
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

31-JUL-2019
S/N =   001
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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	5.0227	5.0654	5.1733	5.2172
Bottom	-4.9966	-4.9520	-4.8394	-4.7937
Gap	10.0193			10.0108
Taper				-0.0085

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0913	-4.9243	10.0157	0.0835

Additional Calculated Values

Bottom Pole #1 Z Value	980.086
Top Jaw Pitch (mrad)	0.058
Bottom Jaw Pitch(mrad)	0.060
Minimum Effective Gap	9.813
Reference Block Gap	6.805

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

31-JUL-2019
S/N =   001
D/S=   0007
Run=   17