Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   5.2867   Regression Line Ang. (mrad) =   0.0584

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.809

Y Dev.from Mean

Mean BTM =   -4.7274   Regression Line Ang. (mrad) =   0.0618

Y Value Scales Centered on Mean Values

Regression Line Through Points =

Step Between Measured Pole Tips =   60

Dimensions in mm

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METROLOGY
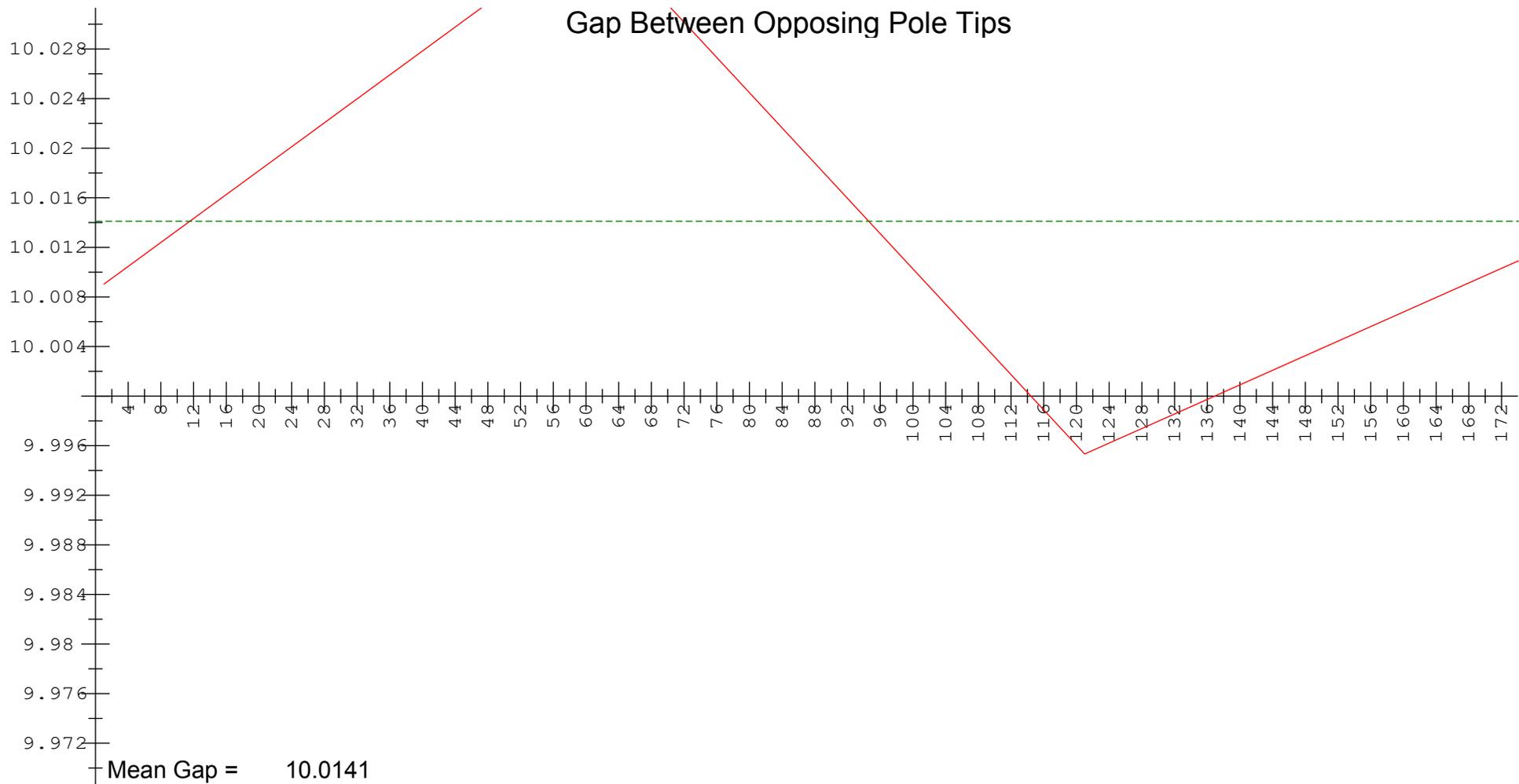
LCLS II - SXR Undulator

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=   16

Gap Between Opposing Pole Tips

Mean Gap =   10.0141
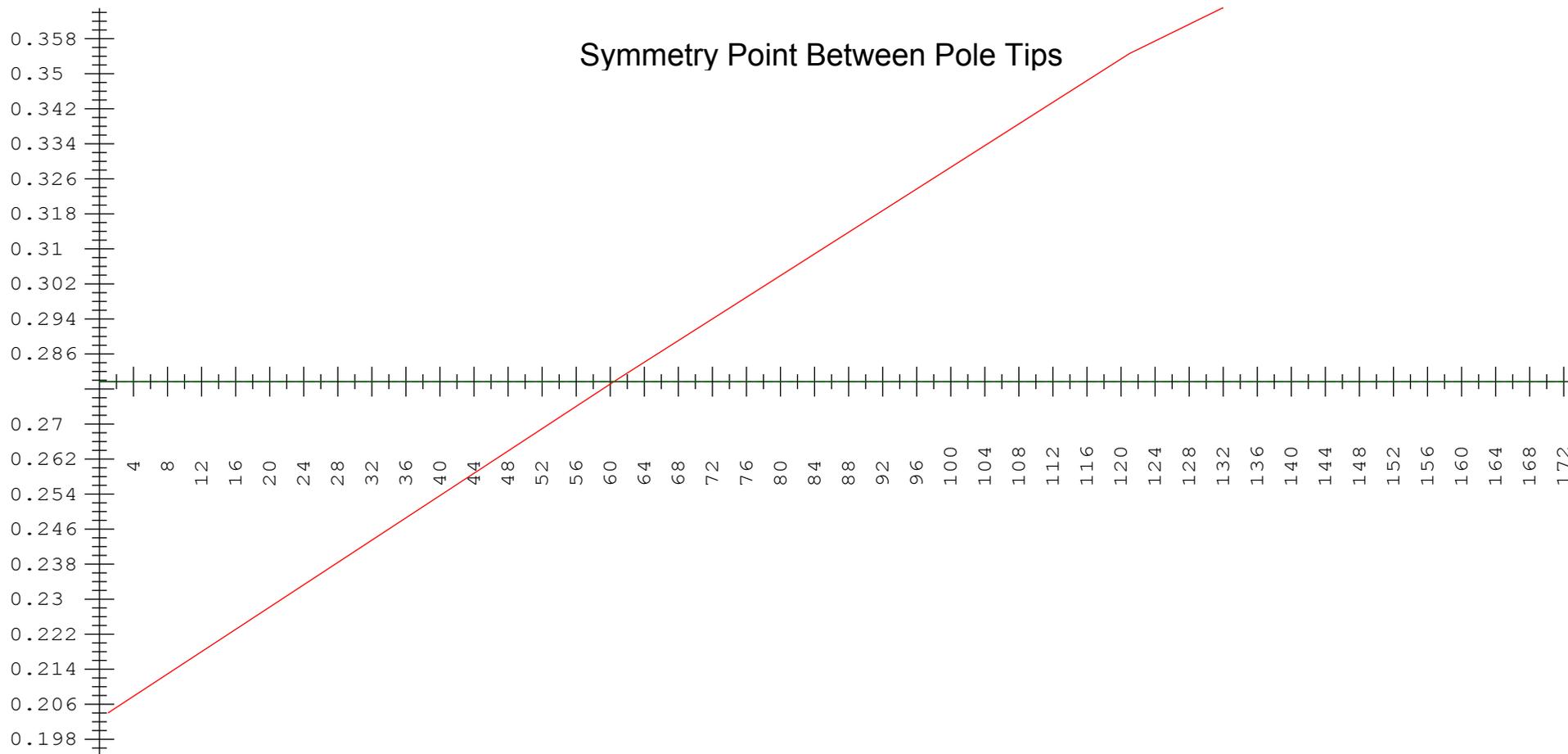
Step Between Measured Pole Tips =   60

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

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METROLOGY

31-JUL-2019
S/N =   001
D/S=   0007
Run=   16

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2797

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

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S/N =   001
D/S=   0007
Run=   16

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	5.2171	5.2604	5.3698	5.4143
Bottom	-4.8020	-4.7562	-4.6405	-4.5935
Gap	10.0191			10.0078
Taper				-0.0113

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.2867	-4.7274	10.0141	0.2797

Additional Calculated Values

Bottom Pole #1 Z Value	980.086
Top Jaw Pitch (mrad)	0.058
Bottom Jaw Pitch(mrad)	0.062
Minimum Effective Gap	9.809
Reference Block Gap	6.805

Dimensions in mm

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METROLOGY

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 = 16