Top Jaw Pole Tips

Y Dev. from Mean

0.168
0.144
0.12
0.096
0.072
0.048
0.024
-0.024
-0.048
-0.072
-0.096
-0.12
-0.144
-0.168

Mean TOP =   3.7470   Regression Line Ang. (mrad) =   0.1153

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 7.113

Y Dev. from Mean

0.168
0.144
0.12
0.096
0.072
0.048
0.024
-0.024
-0.048
-0.072
-0.096
-0.12
-0.144
-0.168

Mean BTM =   -3.7295   Regression Line Ang. (mrad) =   0.1206

Y Value Scales Centered on Mean Values   Regression Line Through Points =
Step Between Measured Pole Tips =   60   Dimensions in mm

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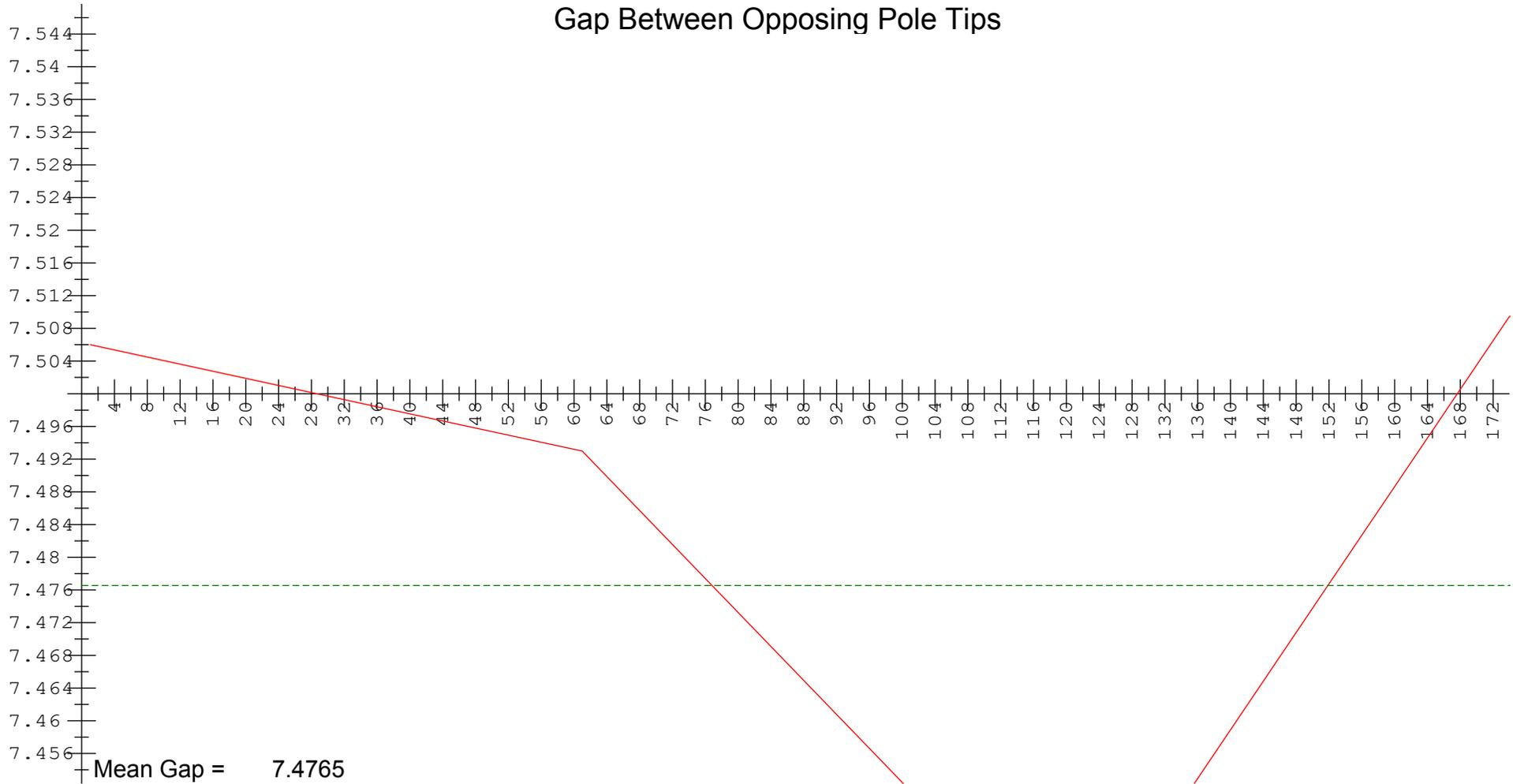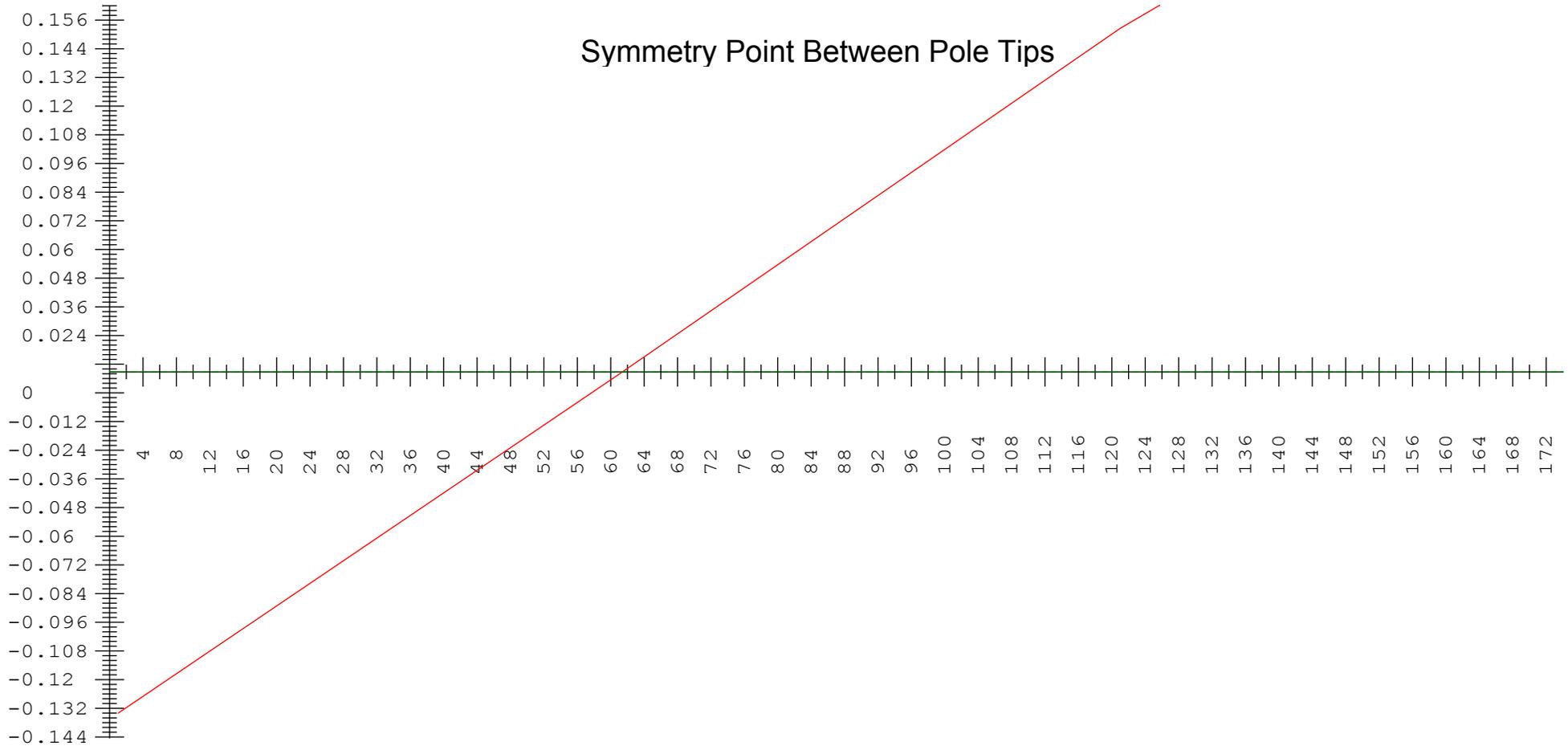METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 7.5   Nominal Taper = 0.000

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

30-JUL-2019
S/N =   001
D/S=   0007
Run=   11

Gap Between Opposing Pole Tips

Mean Gap =   7.4765

Step Between Measured Pole Tips =   60

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 7.5   Nominal Taper = 0.000

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

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30-JUL-2019
S/N =   001
D/S=   0007
Run=   11

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0088

Step Between Measured Pole Tips =   60

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 7.5   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

30-JUL-2019
S/N =   001
D/S=   0007
Run=   11

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	3.6158	3.7013	3.9171	4.0048
Bottom	-3.8781	-3.7887	-3.5630	-3.4713
Gap	7.4939			7.4760
Taper				-0.0179

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.7470	-3.7295	7.4765	0.0088

Additional Calculated Values

Bottom Pole #1 Z Value	980.085
Top Jaw Pitch (mrad)	0.115
Bottom Jaw Pitch(mrad)	0.121
Minimum Effective Gap	7.113
Reference Block Gap	6.804

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 7.5   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

30-JUL-2019
S/N =   001
D/S=   0007
Run=   11