



METROLOGY

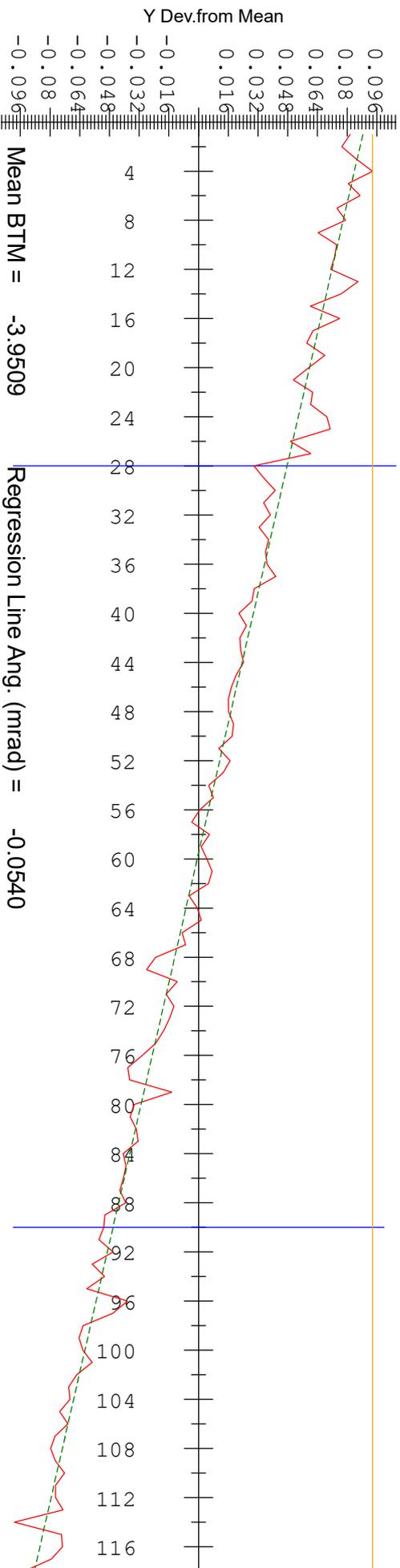
LCLS II-HE - SXR Undulator

Nominal Gap = 10
Nominal Taper = 0.000
Gap Reading = 10.1500 US Encoder = 10.0000 DS Encoder = 10.3000

08-JUL-2025
S/N = 006
D/S = 0001
Run = 7

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

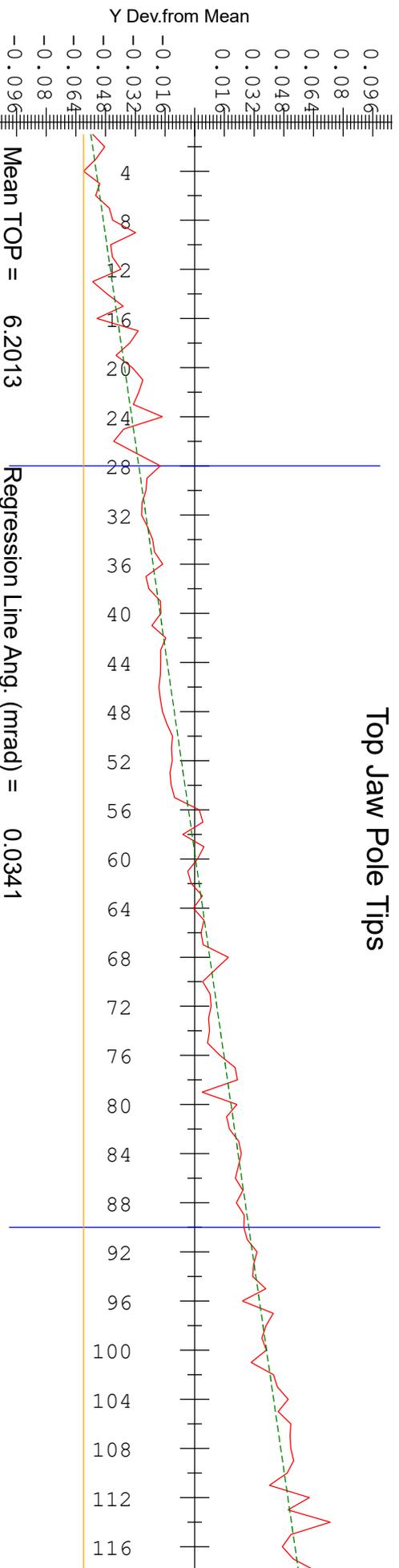
Regression Line Through Points = -----
Dimensions in mm



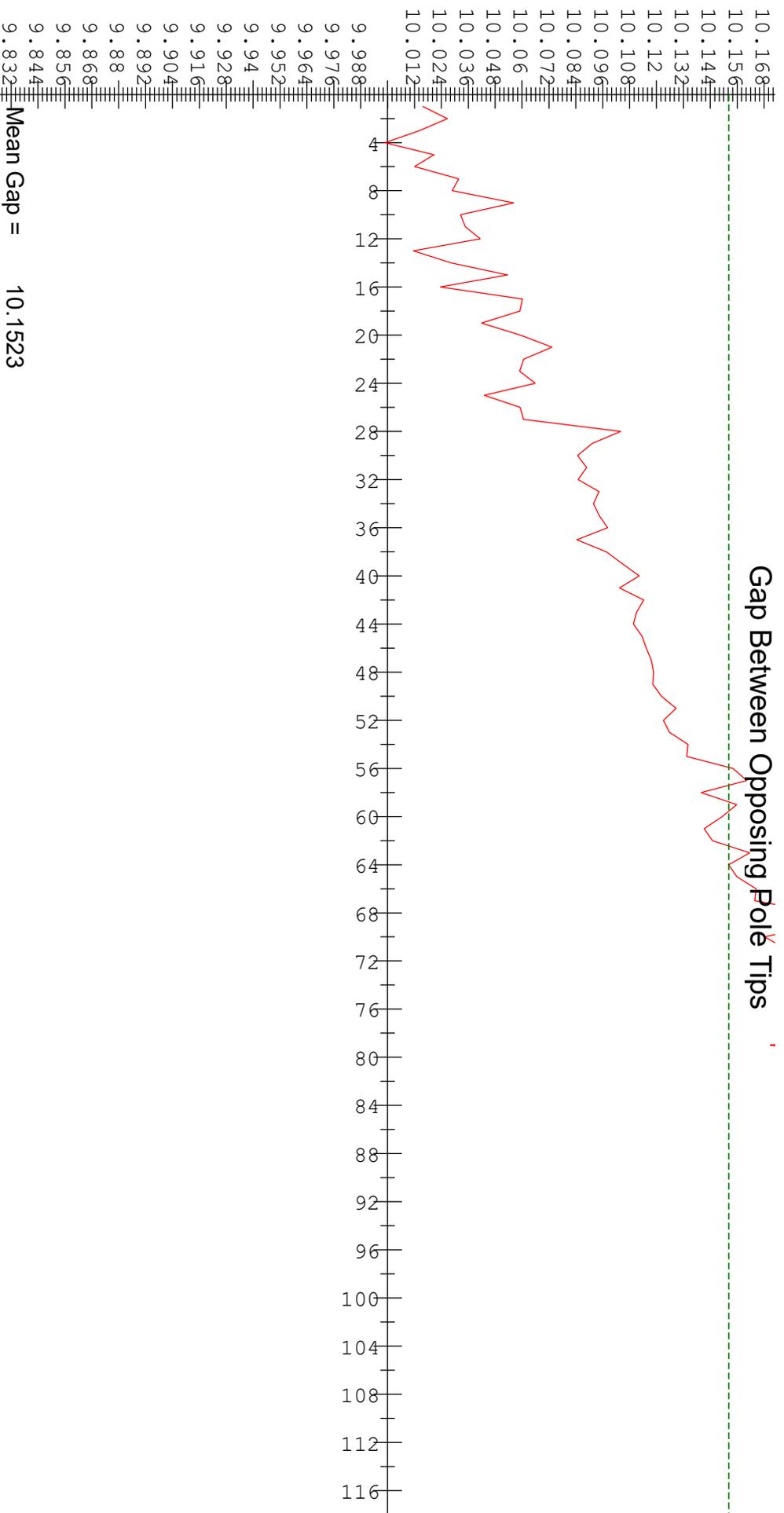
Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.999



Top Jaw Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm

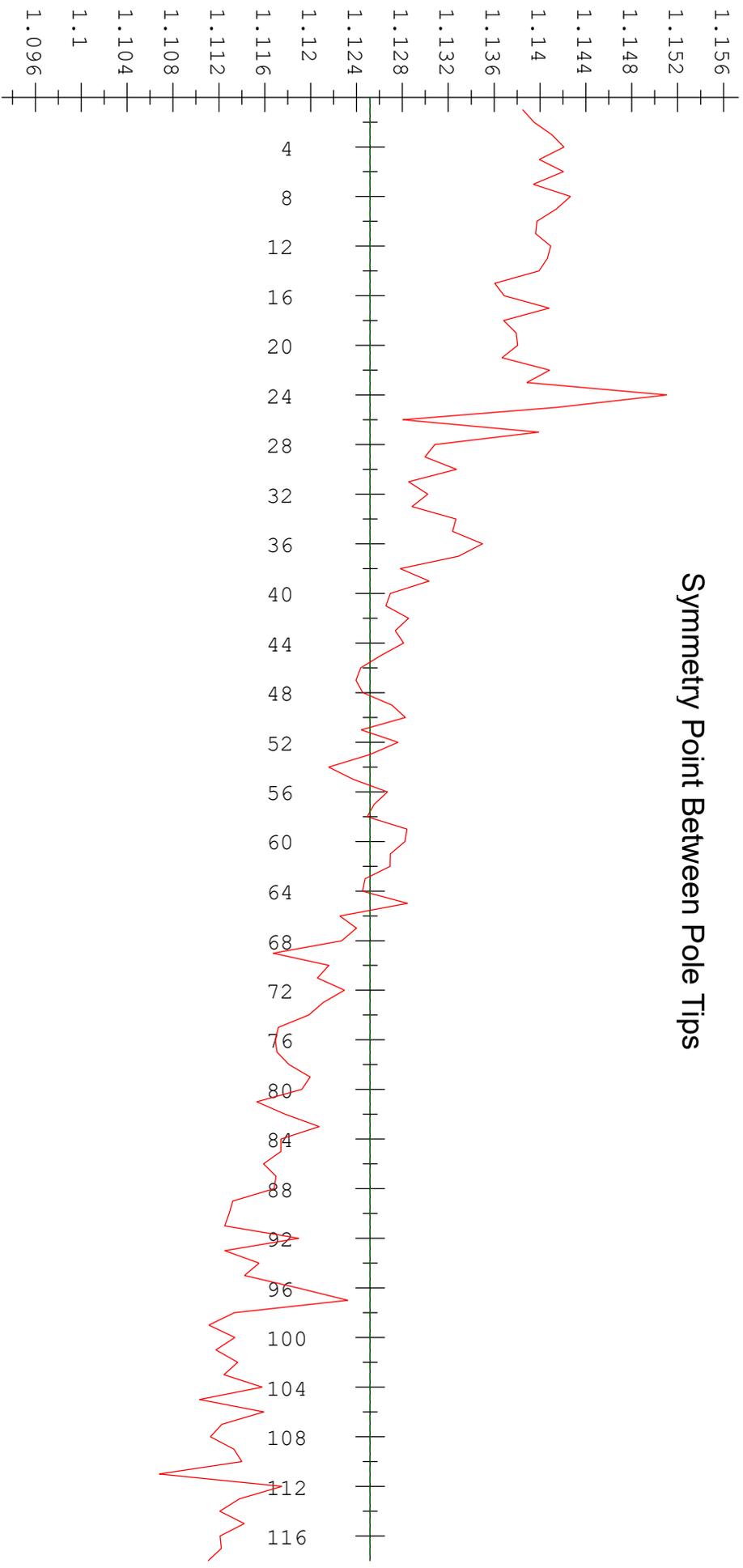


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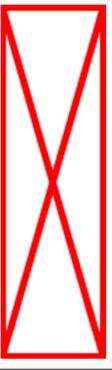


Symmetry Point Between Pole Tips

Mean Symmetry Value = 1.1252

Step Between Measured Pole Tips = 1

Dimensions in mm



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Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 28)</i>	DS Actuator <i>(Pole 90)</i>	Last Pole <i>(Pole 118)</i>
Top	6.1454	6.1712	6.2305	6.2572
Bottom	-3.8625	-3.9033	-3.9971	-4.0394
Gap	10.0079			10.2967
Taper				0.2888

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.2013	-3.9509	10.1523	1.1252

Additional Calculated Values

Bottom Pole #1 Z Value	978.686
Top Jaw Pitch (mrad)	0.034
Bottom Jaw Pitch(mrad)	-0.054
Minimum Effective Gap	9.999
Reference Block Gap	6.800

Dimensions in mm



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