



METROLOGY

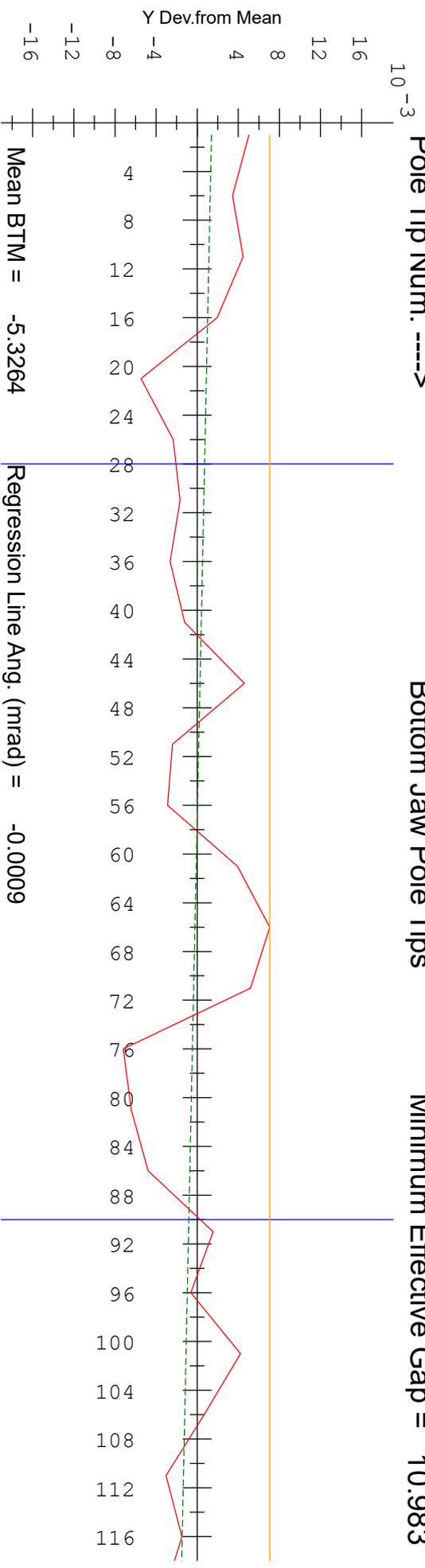
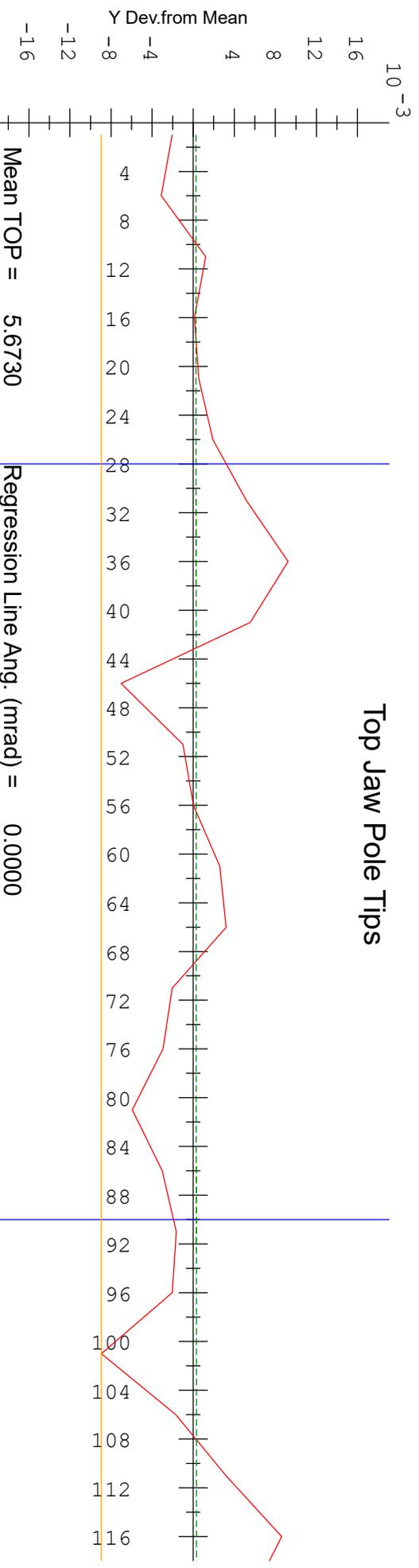
# LCLS II-HE - SXR Undulator

Nominal Gap = 11  
Nominal Taper = 0.000  
Gap Reading = 11.0000  
US Encoder = 11.0000  
DS Encoder = 11.0000

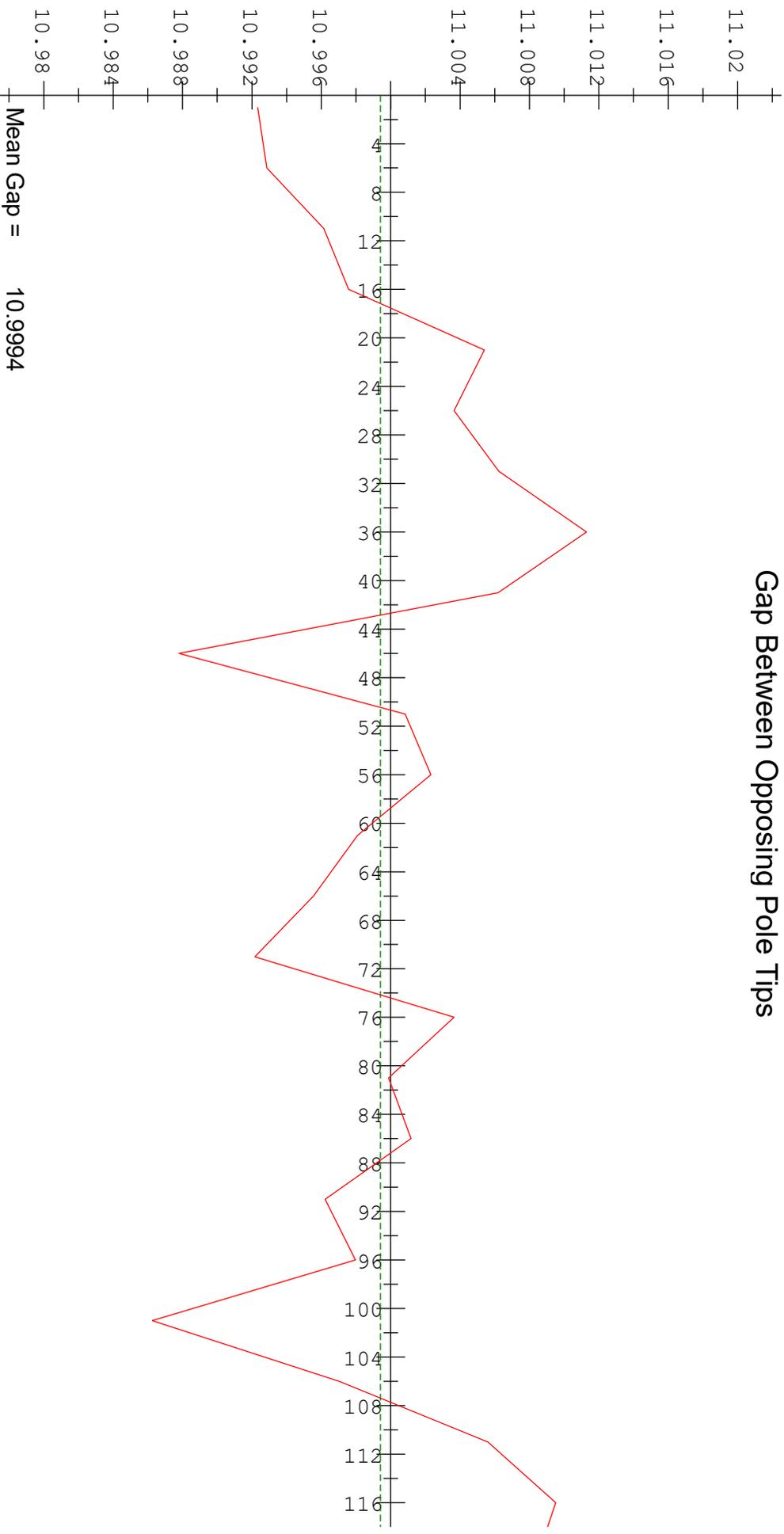
15-OCT-2024  
S/N = 027  
D/S = 0001  
Run = 6

Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 5

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

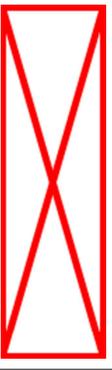


# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm



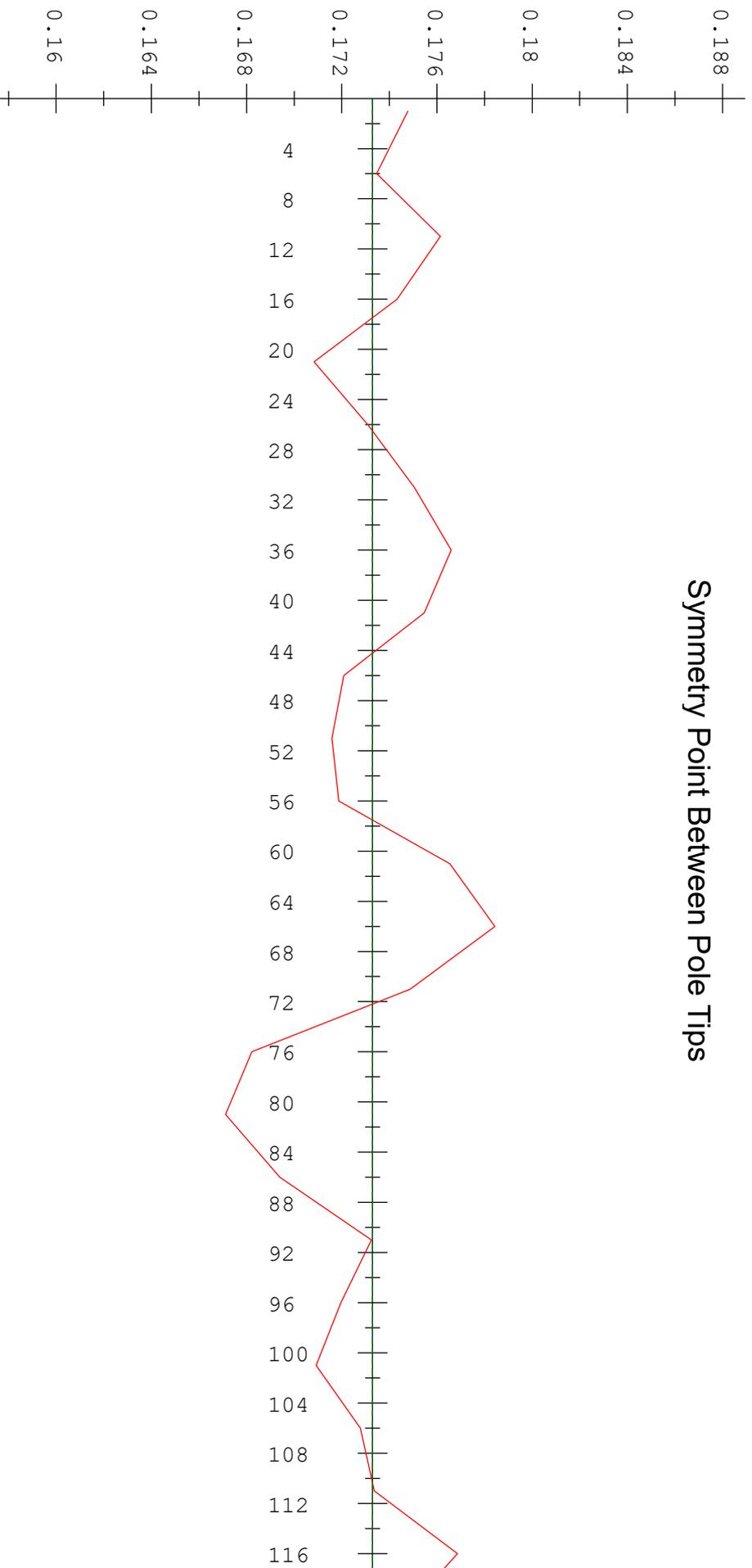
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### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.1733

Step Between Measured Pole Tips = 5

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>
<b>Top</b>	5.6733	5.6733	5.6733	5.6733
<b>Bottom</b>	-5.3250	-5.3257	-5.3272	-5.3279
<b>Gap</b>	10.9983			11.0012
<b>Taper</b>				0.0030

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.6730	-5.3264	10.9994	0.1733

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>978.897</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.000</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>-0.001</b>
<b>Minimum Effective Gap</b>	<b>10.983</b>
<b>Reference Block Gap</b>	<b>6.801</b>

Dimensions in mm



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