

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

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

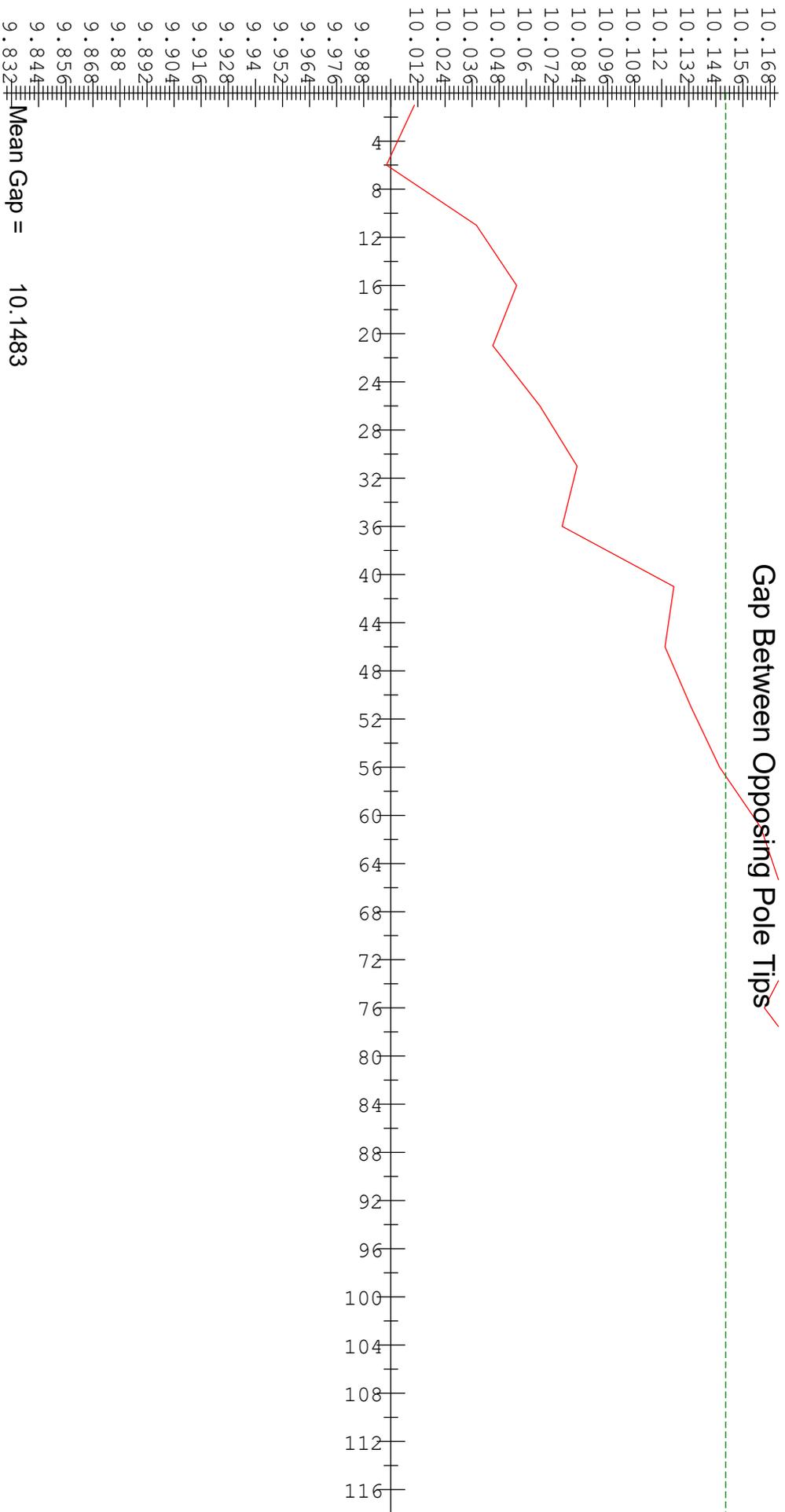


METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.300  
Gap Reading = 10.1500      US Encoder = 10.0000      DS Encoder = 10.3000

15-JUL-2024  
S/N = 023  
D/S = 0001  
Run = 23



Step Between Measured Pole Tips = 5

Dimensions in mm



METROLOGY

# LCLS II-HE - SXR Undulator

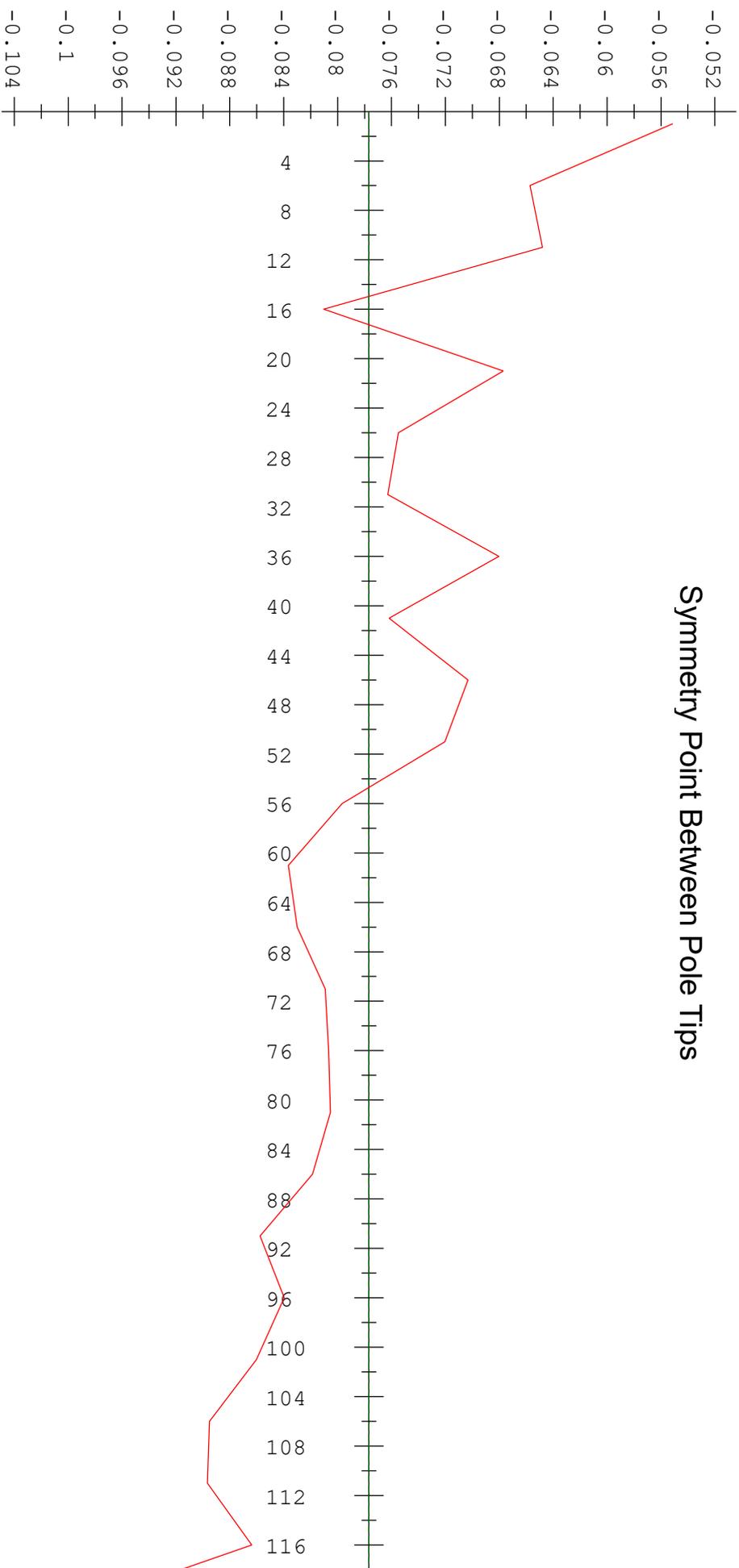
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Nominal Taper = 0.300      DS Encoder = 10.3000

Gap Reading = 10.1500

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### Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0777

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>	4.9366	4.9648	5.0295	5.0587
<b>Bottom</b>	-5.0673	-5.1071	-5.1985	-5.2397
<b>Gap</b>	10.0039			10.2984
<b>Taper</b>				0.2945

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9965	-5.1518	10.1483	-0.0777

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>979.450</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.037</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>-0.053</b>
<b>Minimum Effective Gap</b>	<b>9.994</b>
<b>Reference Block Gap</b>	<b>6.799</b>

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