

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

Regression Line Through Points =  
 Dimensions in mm

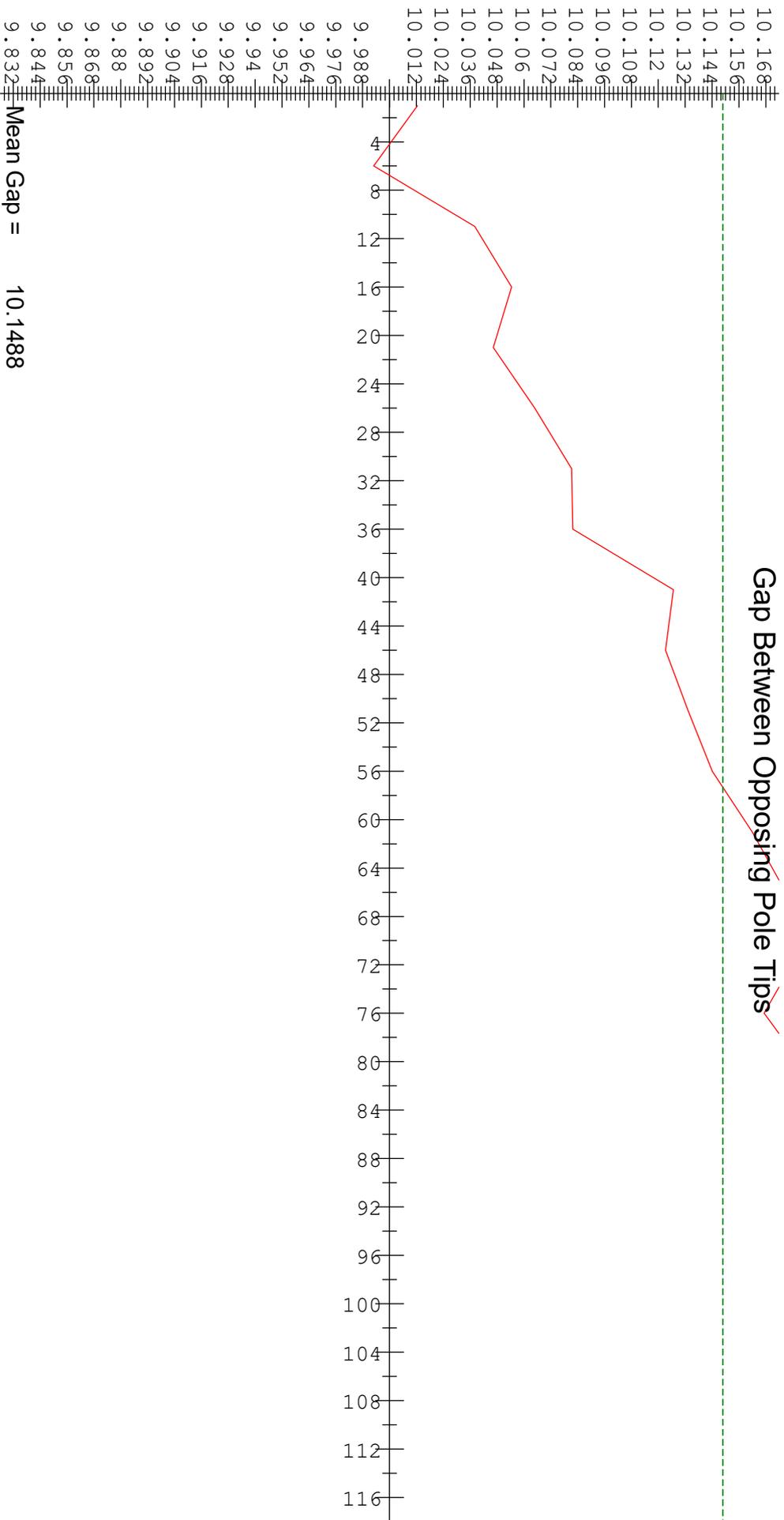


METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.300  
 Gap Reading = 10.1500      US Encoder = 10.0000      DS Encoder = 10.3001

15-JUL-2024  
 S/N = 023  
 D/S = 0001  
 Run = 22



Step Between Measured Pole Tips = 5

Dimensions in mm



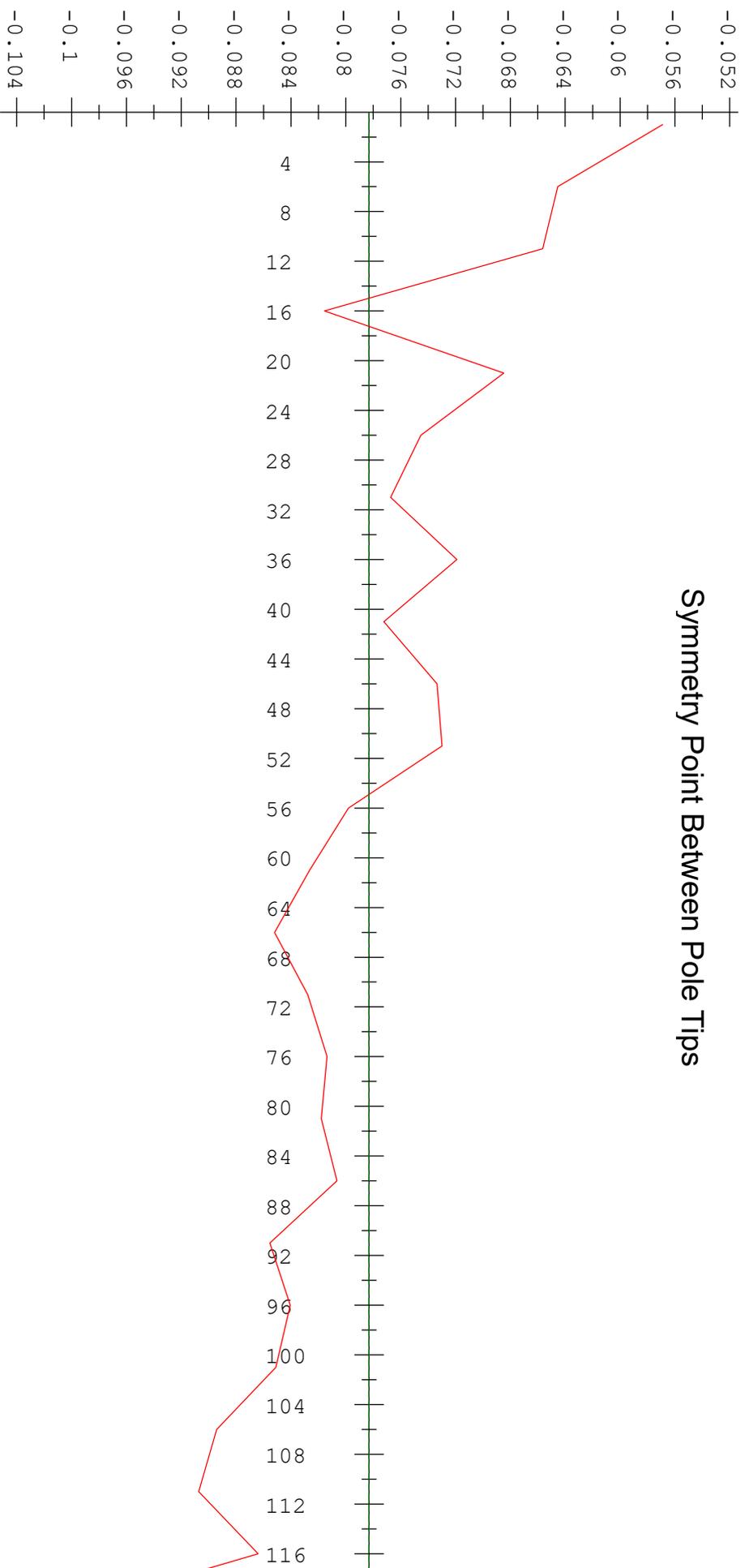
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### Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0783

Step Between Measured Pole Tips = 5

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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>	4.9355	4.9640	5.0295	5.0590
<b>Bottom</b>	-5.0682	-5.1080	-5.1994	-5.2407
<b>Gap</b>	10.0038			10.2997
<b>Taper</b>				0.2959

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9961	-5.1527	10.1488	-0.0783

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>979.450</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.038</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>-0.053</b>
<b>Minimum Effective Gap</b>	<b>9.993</b>
<b>Reference Block Gap</b>	<b>6.799</b>

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