

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

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



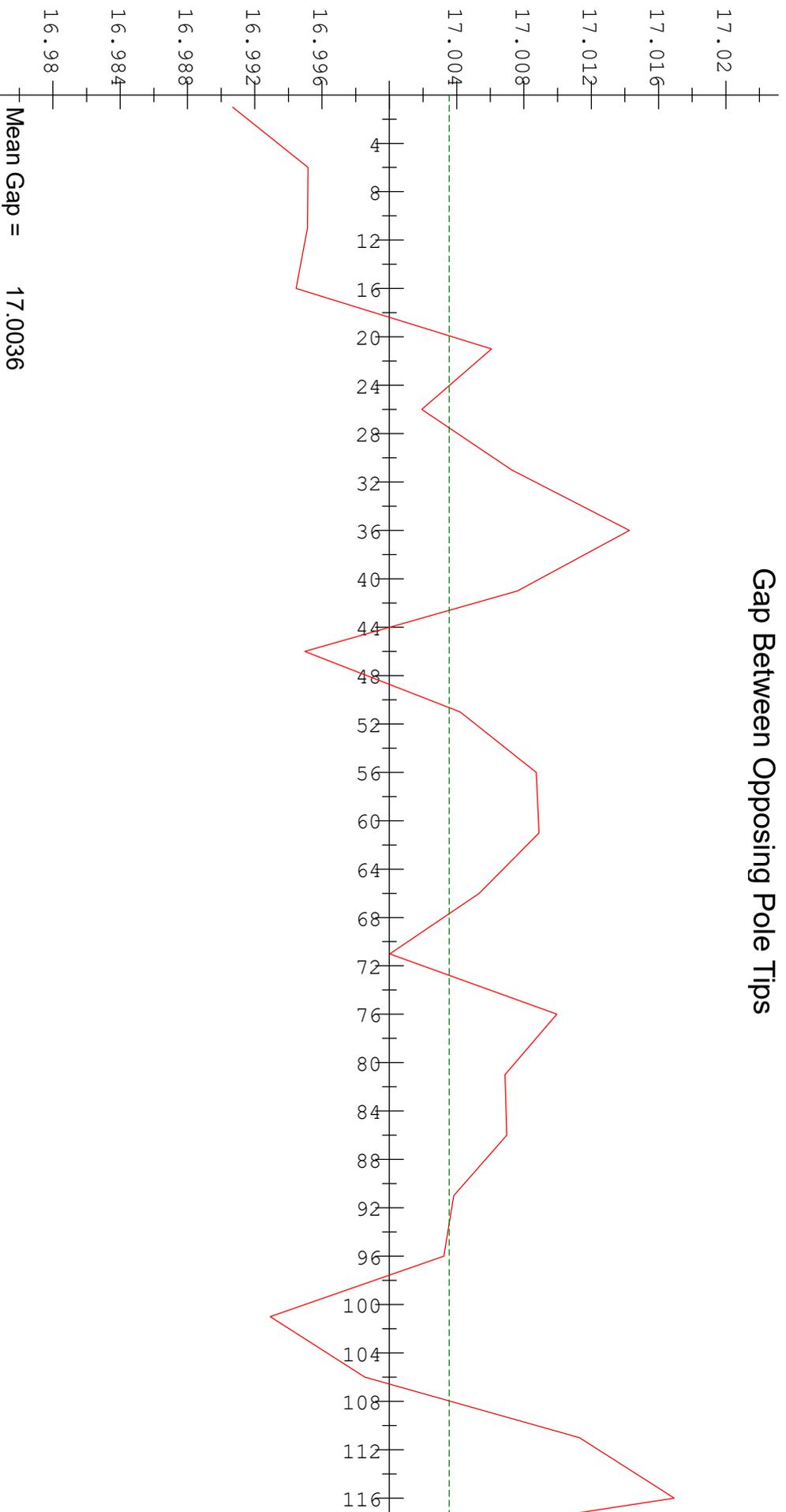
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17
Gap Reading = 17.0000
US Encoder = 17.0001
Nominal Taper = 0.000
DS Encoder = 17.0000

15-OCT-2024
S/N = 027
D/S = 0001
Run = 8

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm



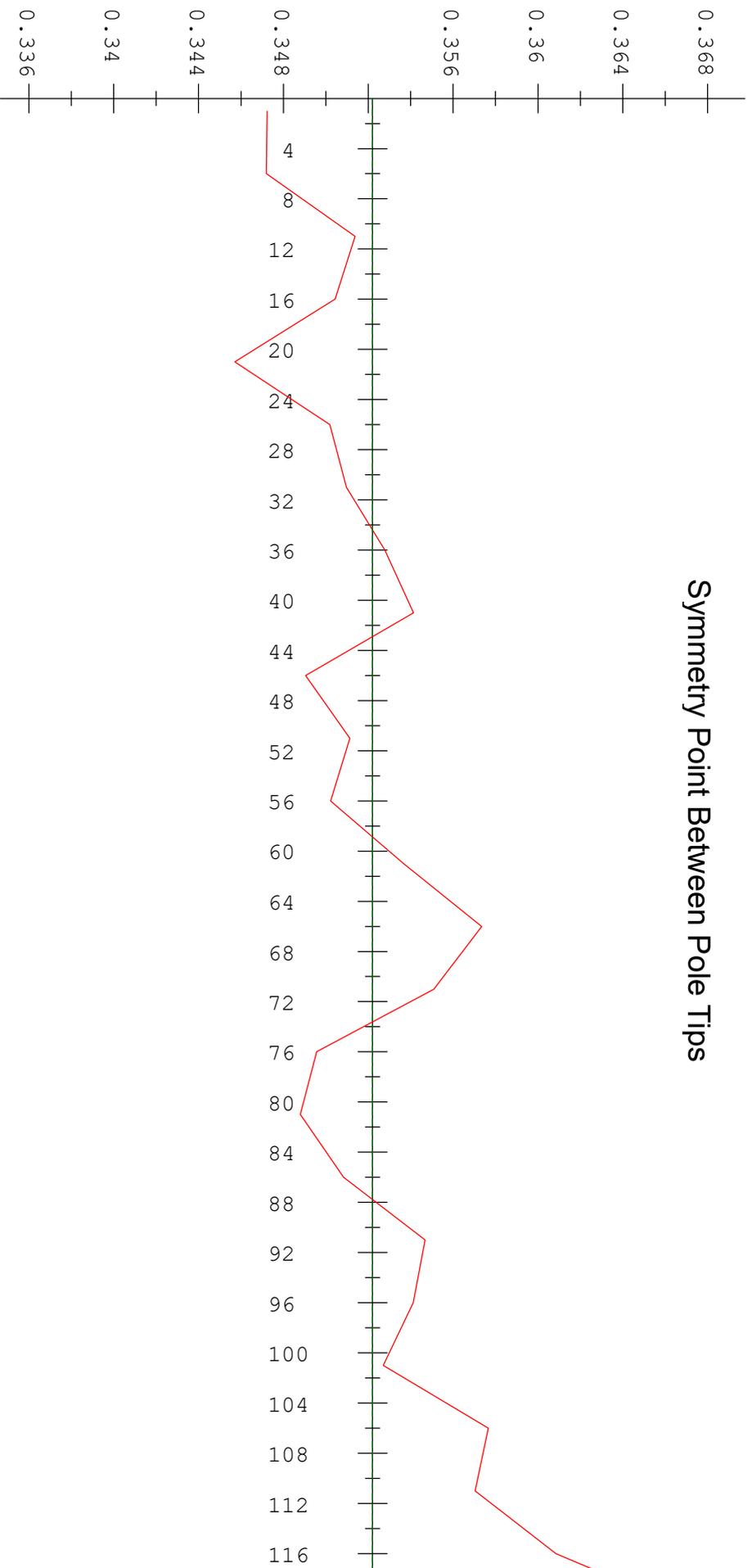
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Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3522

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> |
|---------------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|
| Top | 8.8470 | 8.8504 | 8.8582 | 8.8617 |
| Bottom | -8.1520 | -8.1507 | -8.1479 | -8.1466 |
| Gap | 16.9989 | | | 17.0083 |
| Taper | | | | 0.0094 |

Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---------------|----------------|------------|-----------------|
| 8.8540 | -8.1496 | 17.0036 | 0.3522 |

Additional Calculated Values

| | |
|-------------------------------|----------------|
| Bottom Pole #1 Z Value | 978.897 |
| Top Jaw Pitch (mrad) | 0.005 |
| Bottom Jaw Pitch(mrad) | 0.002 |
| Minimum Effective Gap | 16.983 |
| Reference Block Gap | 6.801 |

Dimensions in mm



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