

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 7

Regression Line Through Points =

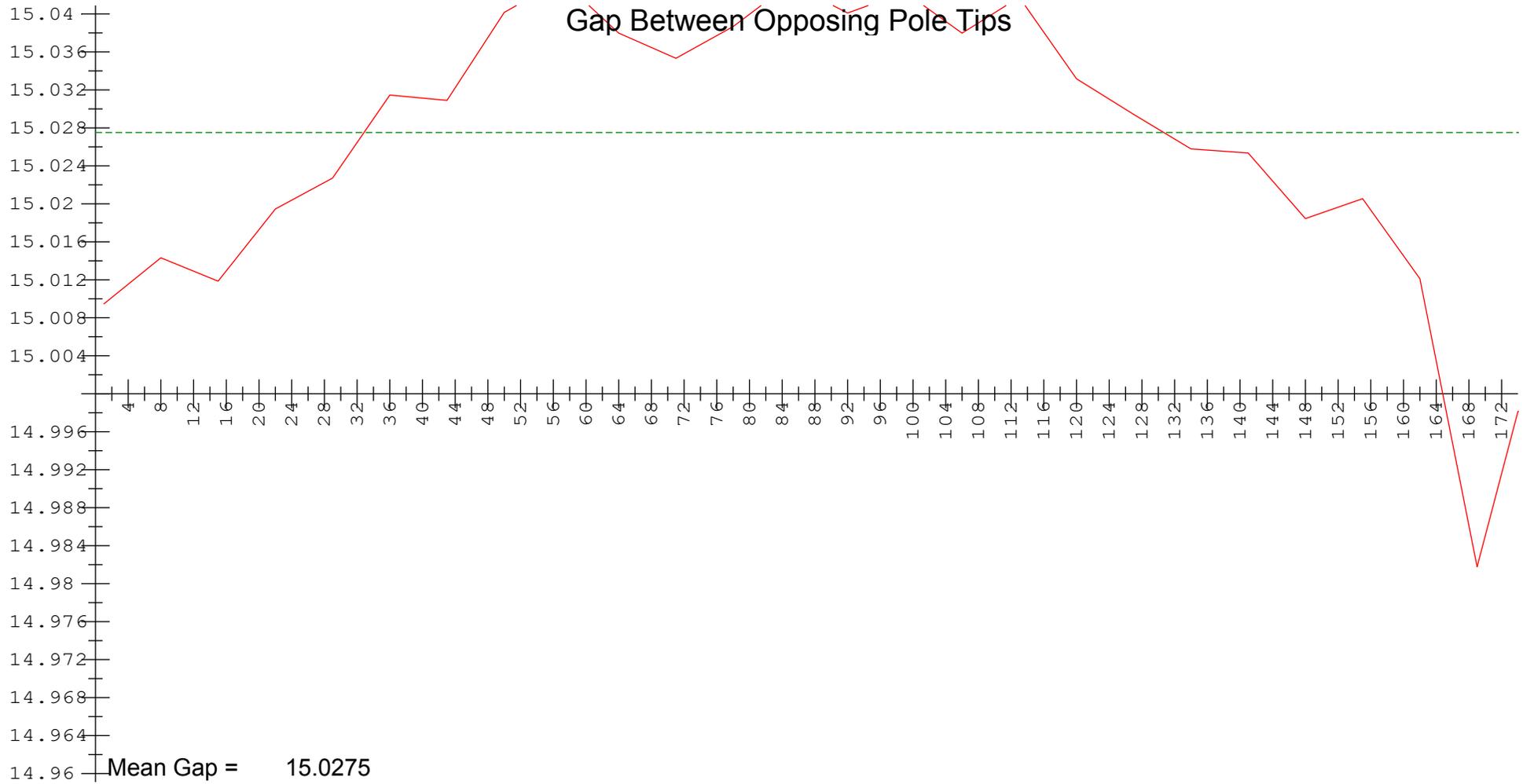
Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 15      Nominal Taper = 0.000  
 Gap Reading = 15.0000      US Encoder = 15.0000      DS Encoder = 15.0001

15-MAR-2019  
 S/N = 022  
 D/S = 0001  
 Run = 11



Step Between Measured Pole Tips = 7

Dimensions in mm

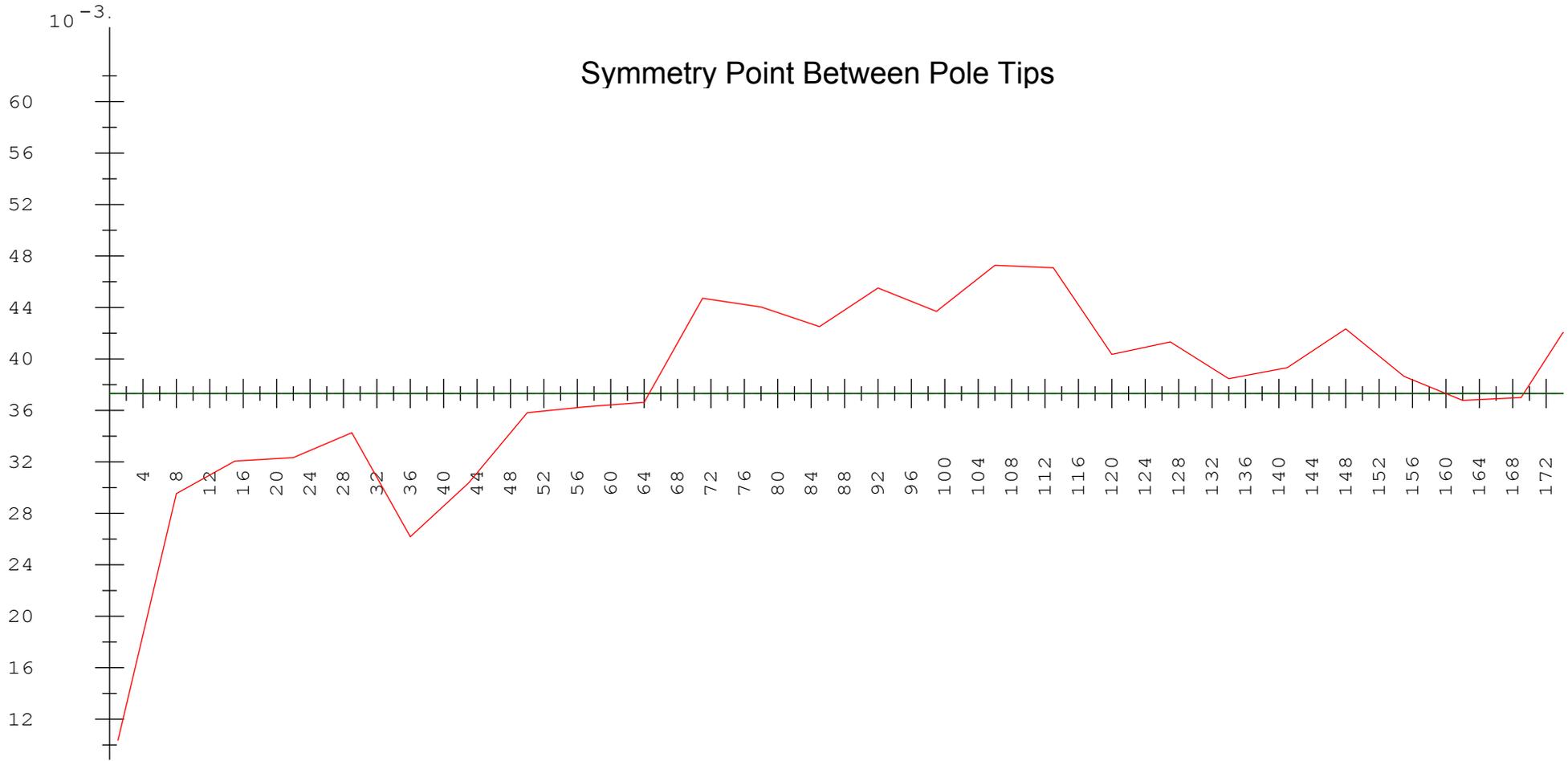


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### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0373

Step Between Measured Pole Tips = 7

Dimensions in mm



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## Top and Bottom Jaw Regression Line Intersect Points

| Jaw           | First Pole<br>(Pole 1) | US Actuator<br>(Pole 39) | DS Actuator<br>(Pole 135) | Last Pole<br>(Pole 174) |
|---------------|------------------------|--------------------------|---------------------------|-------------------------|
| <b>Top</b>    | 7.5459                 | 7.5480                   | 7.5532                    | 7.5554                  |
| <b>Bottom</b> | -7.4864                | -7.4818                  | -7.4700                   | -7.4652                 |
| <b>Gap</b>    | 15.0323                |                          |                           | 15.0206                 |
| <b>Taper</b>  |                        |                          |                           | -0.0117                 |

## Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---------------|----------------|------------|-----------------|
| 7.5511        | -7.4764        | 15.0275    | 0.0373          |

## Additional Calculated Values

|                               |                |
|-------------------------------|----------------|
| <b>Bottom Pole #1 Z Value</b> | <b>980.569</b> |
| <b>Top Jaw Pitch (mrad)</b>   | <b>0.003</b>   |
| <b>Bottom Jaw Pitch(mrad)</b> | <b>0.006</b>   |
| <b>Minimum Effective Gap</b>  | <b>14.969</b>  |
| <b>Reference Block Gap</b>    | <b>6.809</b>   |

Dimensions in mm



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