

Minimum Effective Gap = 7.110

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 5

Regression Line Through Points =

Dimensions in mm



## LCLS II - SXR Undulator

Nominal Gap = 7.4

Nominal Taper = 0.000

Gap Reading = 7.3999

US Encoder = 7.3999

DS Encoder = 7.3999

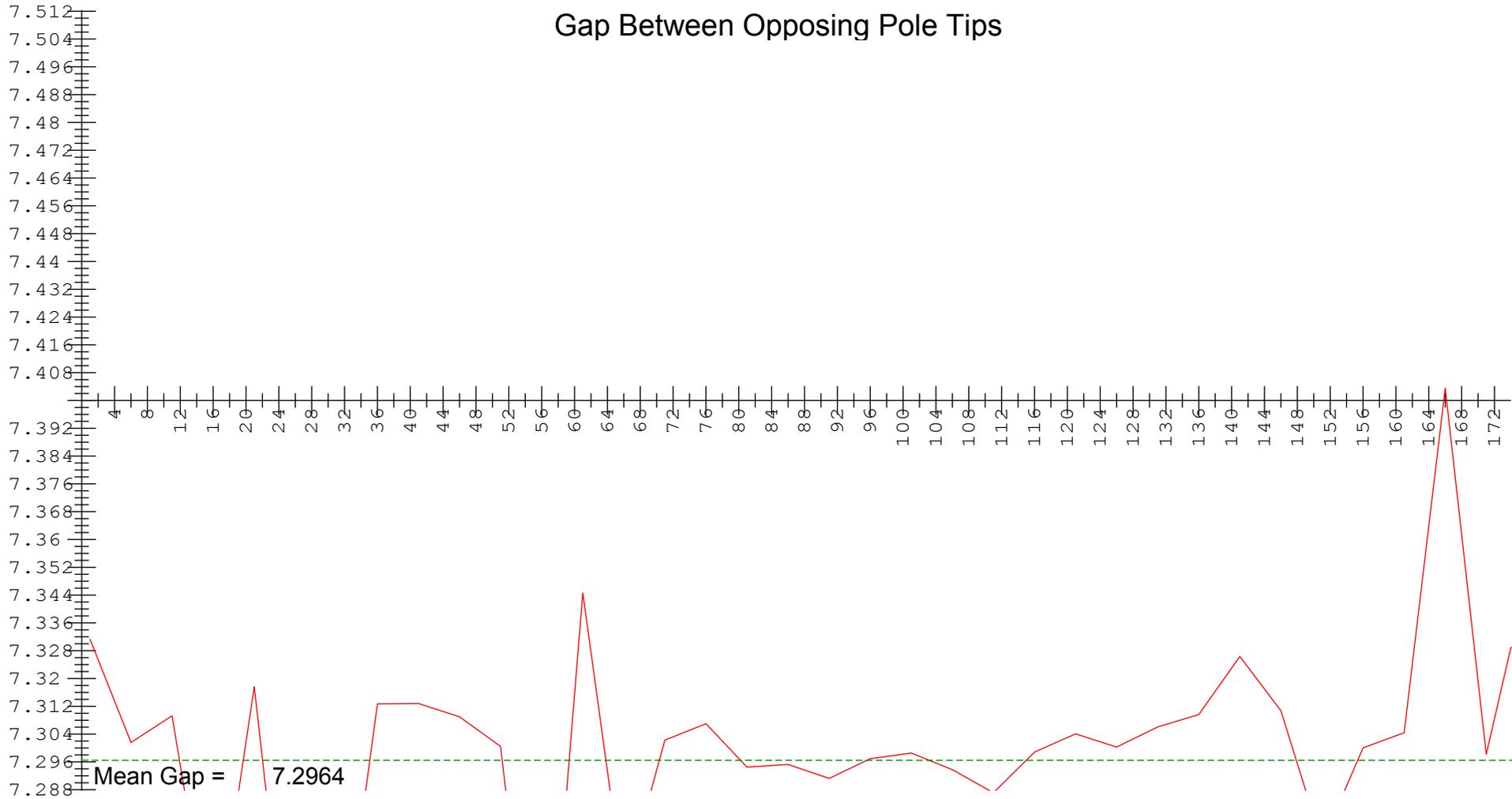
03-MAY-2019

S/N = 001

D/S = 0006

Run = 1

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm

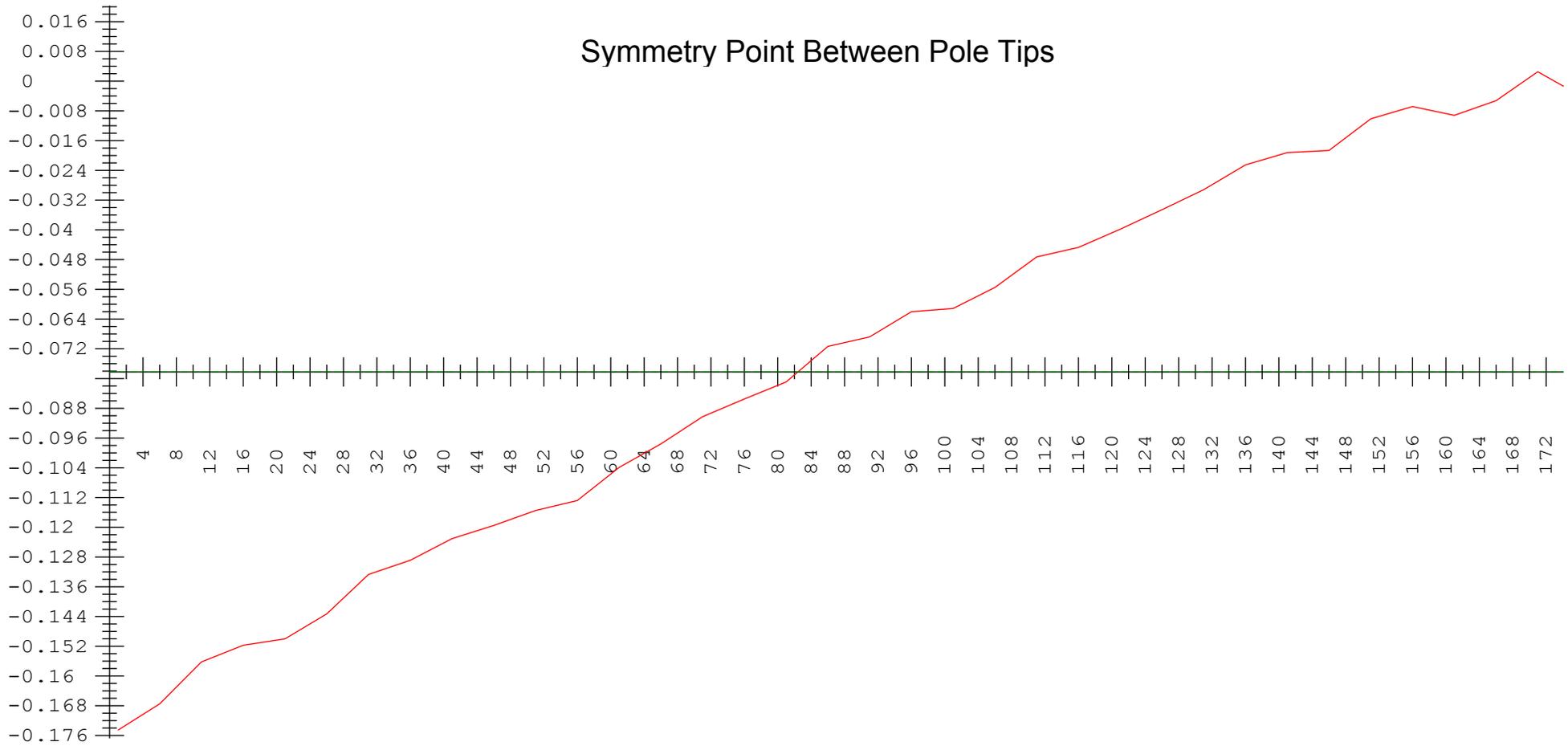


## LCLS II - SXR Undulator

Nominal Gap = 7.4      Nominal Taper = 0.000  
 Gap Reading = 7.3999      US Encoder = 7.3999      DS Encoder = 7.3999

03-MAY-2019  
 S/N = 001  
 D/S = 0006  
 Run = 1

### Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0782

Step Between Measured Pole Tips = 5

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 7.4      Nominal Taper = 0.000  
 Gap Reading = 7.3999      US Encoder = 7.3999      DS Encoder = 7.3999

03-MAY-2019  
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 Run = 1

## Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
<b>Top</b>	3.4730	3.5163	3.6256	3.6700
<b>Bottom</b>	-3.8045	-3.7698	-3.6823	-3.6468
<b>Gap</b>	7.2775			7.3168
<b>Taper</b>				0.0393

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.5700	-3.7264	7.2964	-0.0782

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>980.047</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.058</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.047</b>
<b>Minimum Effective Gap</b>	<b>7.110</b>
<b>Reference Block Gap</b>	<b>6.807</b>

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 7.4      Nominal Taper = 0.000  
 Gap Reading = 7.3999      US Encoder = 7.3999      DS Encoder = 7.3999

03-MAY-2019  
 S/N = 001  
 D/S= 0006  
 Run= 1