Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   7.1096   Regression Line Ang. (mrad) =   0.0242

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   13.903

Y Dev. from Mean

Mean BTM =   -6.9007   Regression Line Ang. (mrad) =   0.0252

Y Value Scales Centered on Mean Values   Regression Line Through Points =
Step Between Measured Pole Tips =   5   Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 14   Nominal Taper = 0.000
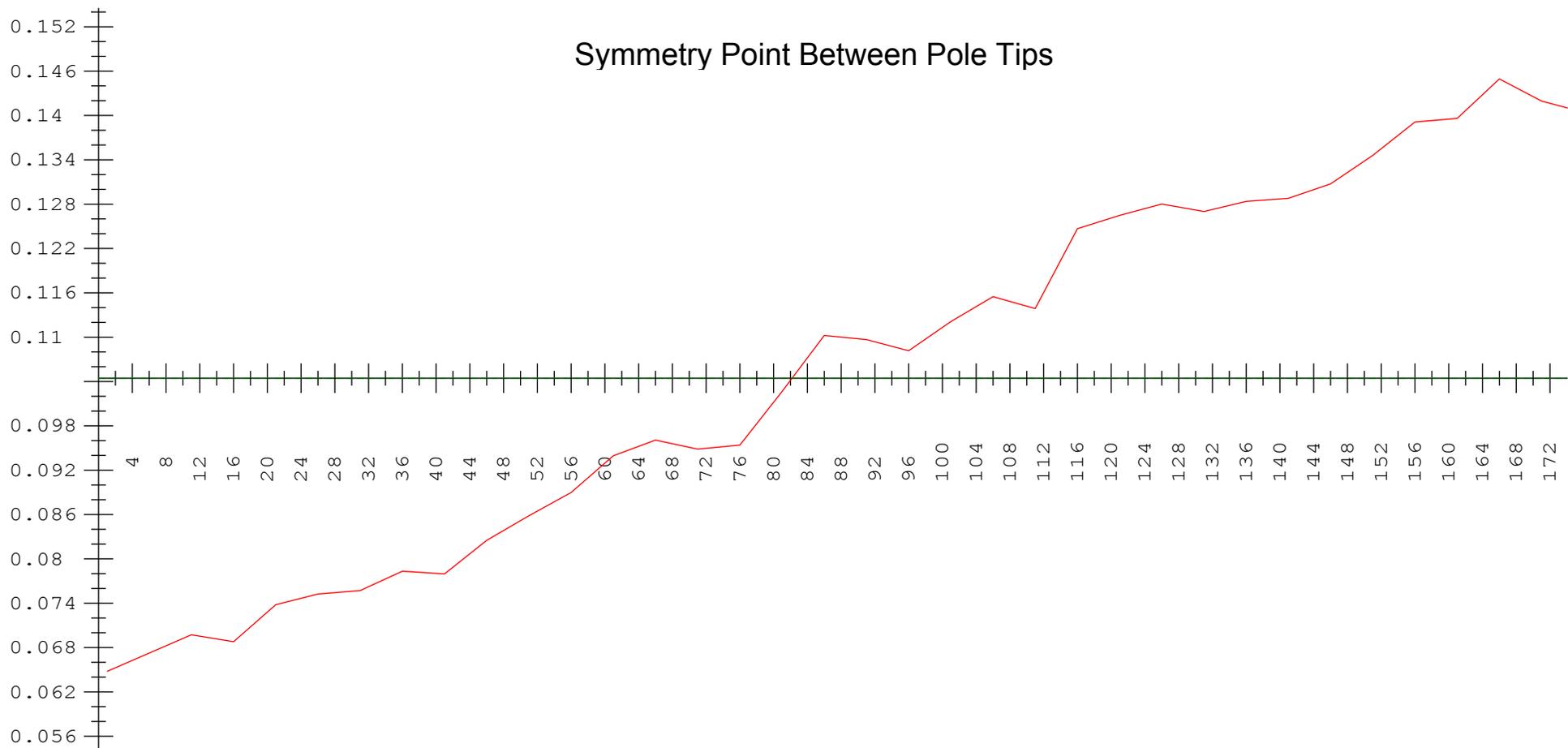Gap Reading = 14.0001   US Encoder = 14.0001   DS Encoder = 14.0001

01-OCT-2018
S/N =   015
D/S=   0001
Run=   9

Gap Between Opposing Pole Tips

Mean Gap =   14.0103

Step Between Measured Pole Tips =   5

Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 14   Nominal Taper = 0.000
Gap Reading = 14.0001   US Encoder = 14.0001   DS Encoder = 14.0001

01-OCT-2018
S/N =   015
D/S=   0001
Run=   9

Symmetry Point Between Pole Tips
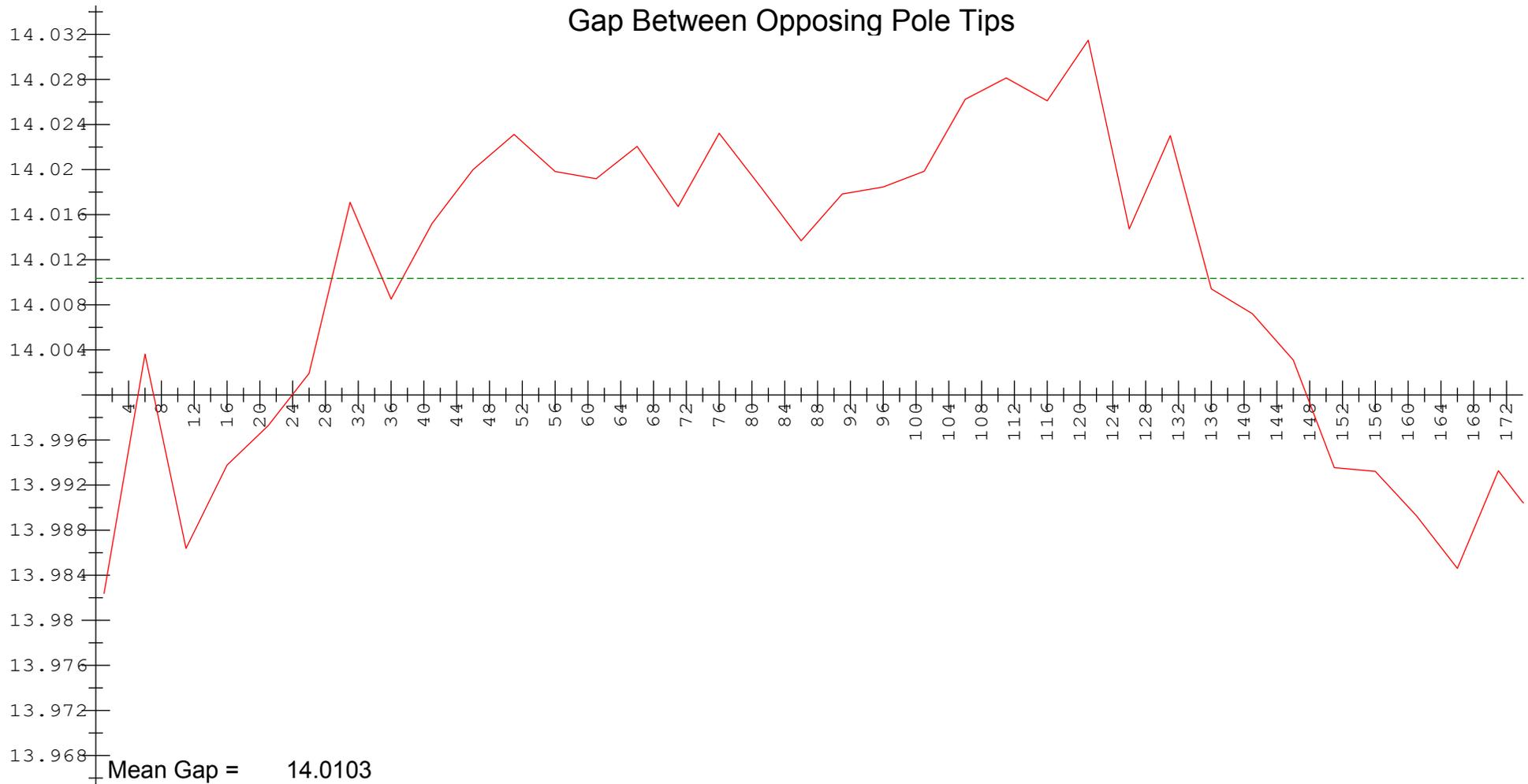
Mean Symmetry Value =   0.1044

Step Between Measured Pole Tips =   5

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | LCLS II - SXR Undulator
Nominal Gap = 14   Nominal Taper = 0.000
Gap Reading = 14.0001   US Encoder = 14.0001   DS Encoder = 14.0001 | 01-OCT-2018
S/N =   015
D/S=   0001
Run=   9 |

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)
Top	7.0691	7.0870	7.1323	7.1507
Bottom	-6.9424	-6.9237	-6.8766	-6.8574
Gap	14.0115			14.0081
Taper				-0.0033

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
7.1096	-6.9007	14.0103	0.1044

Additional Calculated Values

Bottom Pole #1 Z Value	980.409
Top Jaw Pitch (mrad)	0.024
Bottom Jaw Pitch(mrad)	0.025
Minimum Effective Gap	13.903
Reference Block Gap	6.807

Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 14   Nominal Taper = 0.000
Gap Reading = 14.0001   US Encoder = 14.0001   DS Encoder = 14.0001

01-OCT-2018
S/N = 015
D/S = 0001
Run = 9