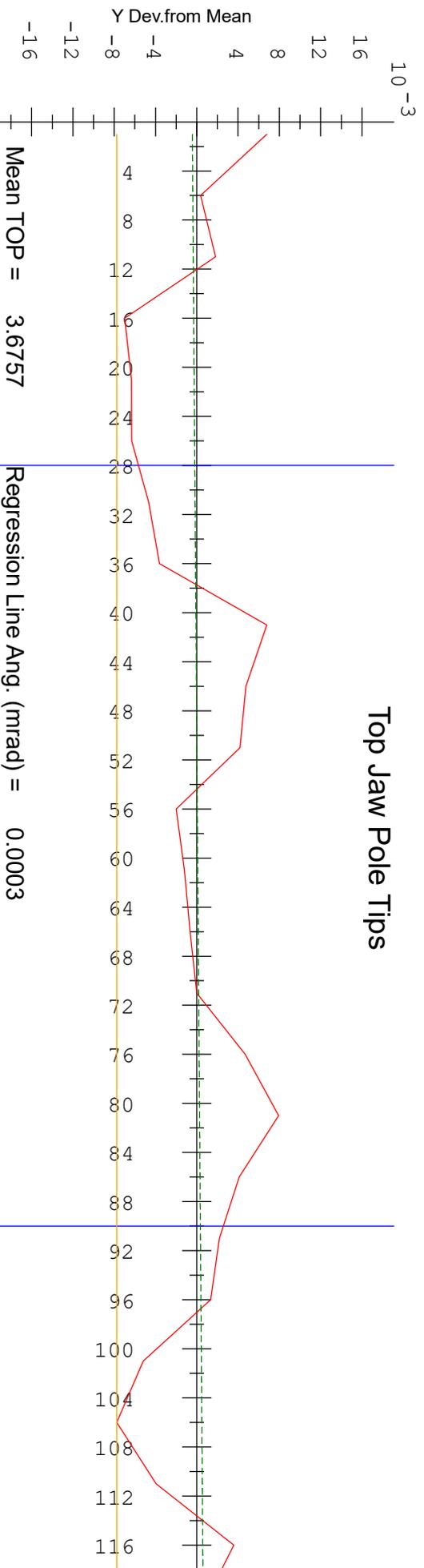


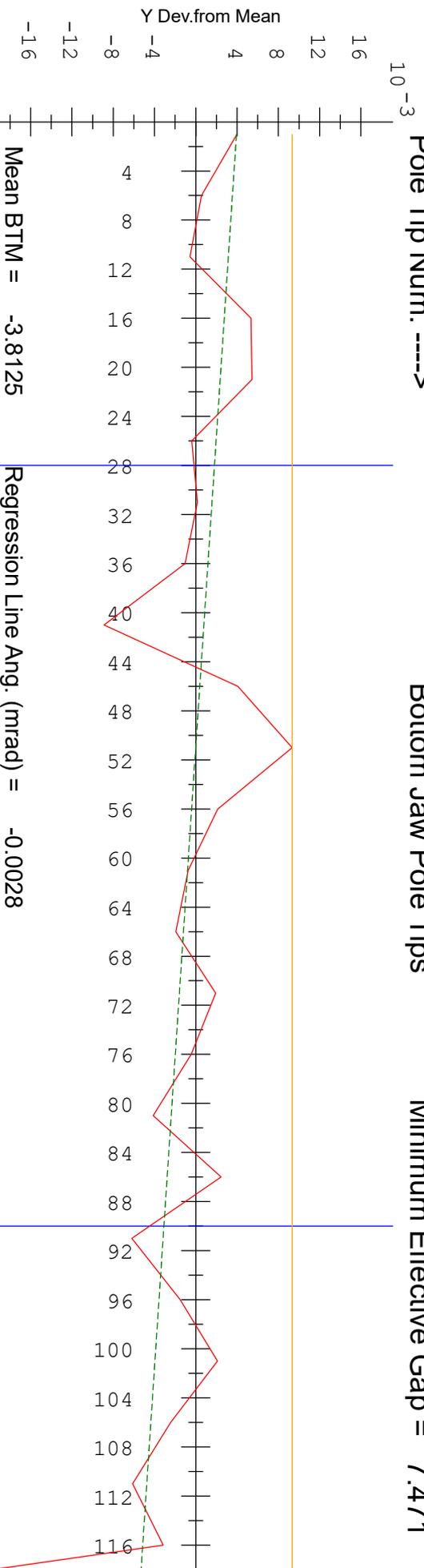
Top Jaw Pole Tips



Pole Tip Num. ---->

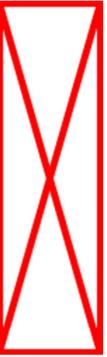
Bottom Jaw Pole Tips

Minimum Effective Gap = 7.471



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

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



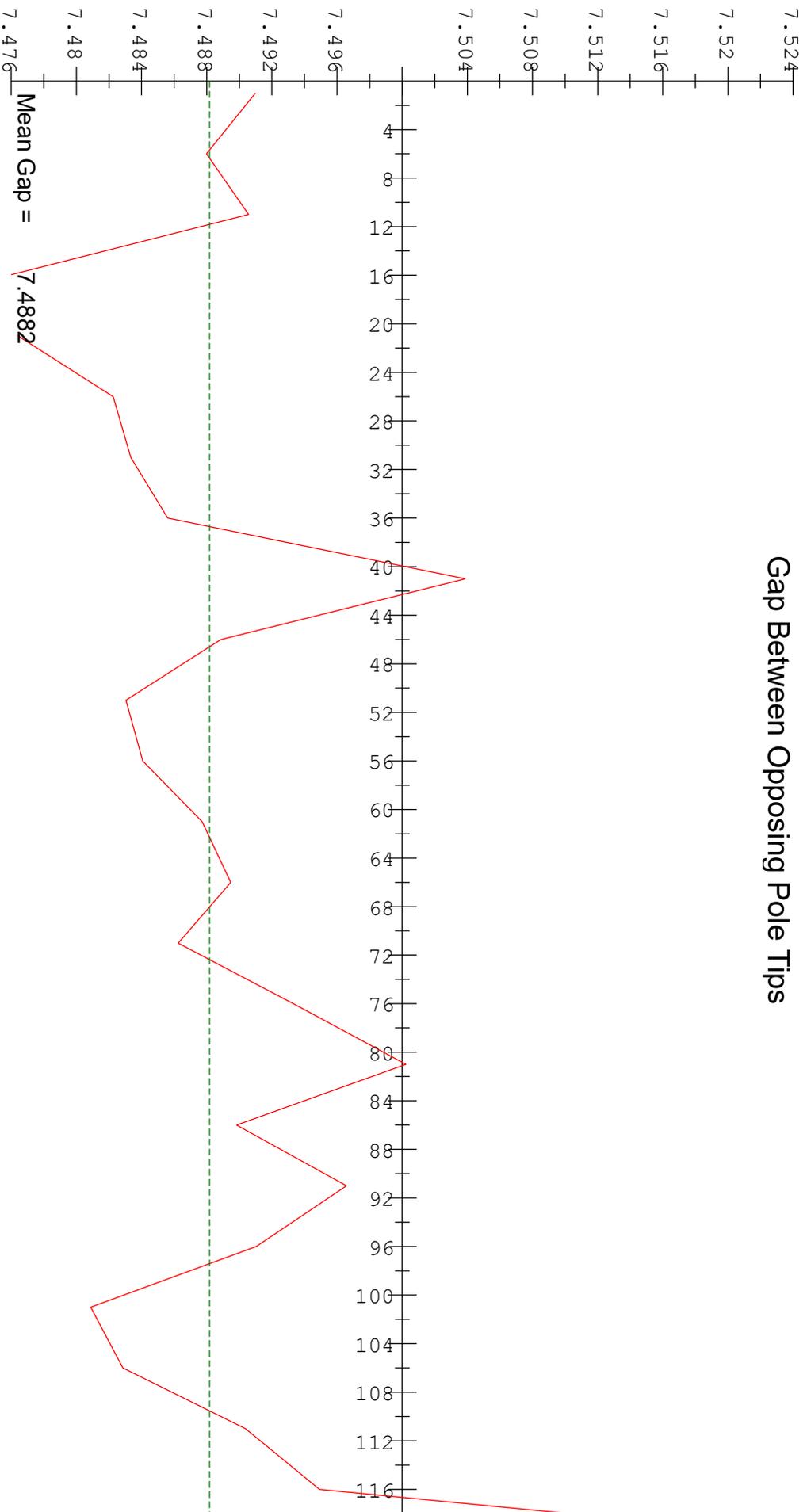
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 7.5 Nominal Taper = 0.000
Gap Reading = 7.5000 US Encoder = 7.5000 DS Encoder = 7.5000

23-MAY-2024
S/N = 023
D/S = 0001
Run = 9

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm



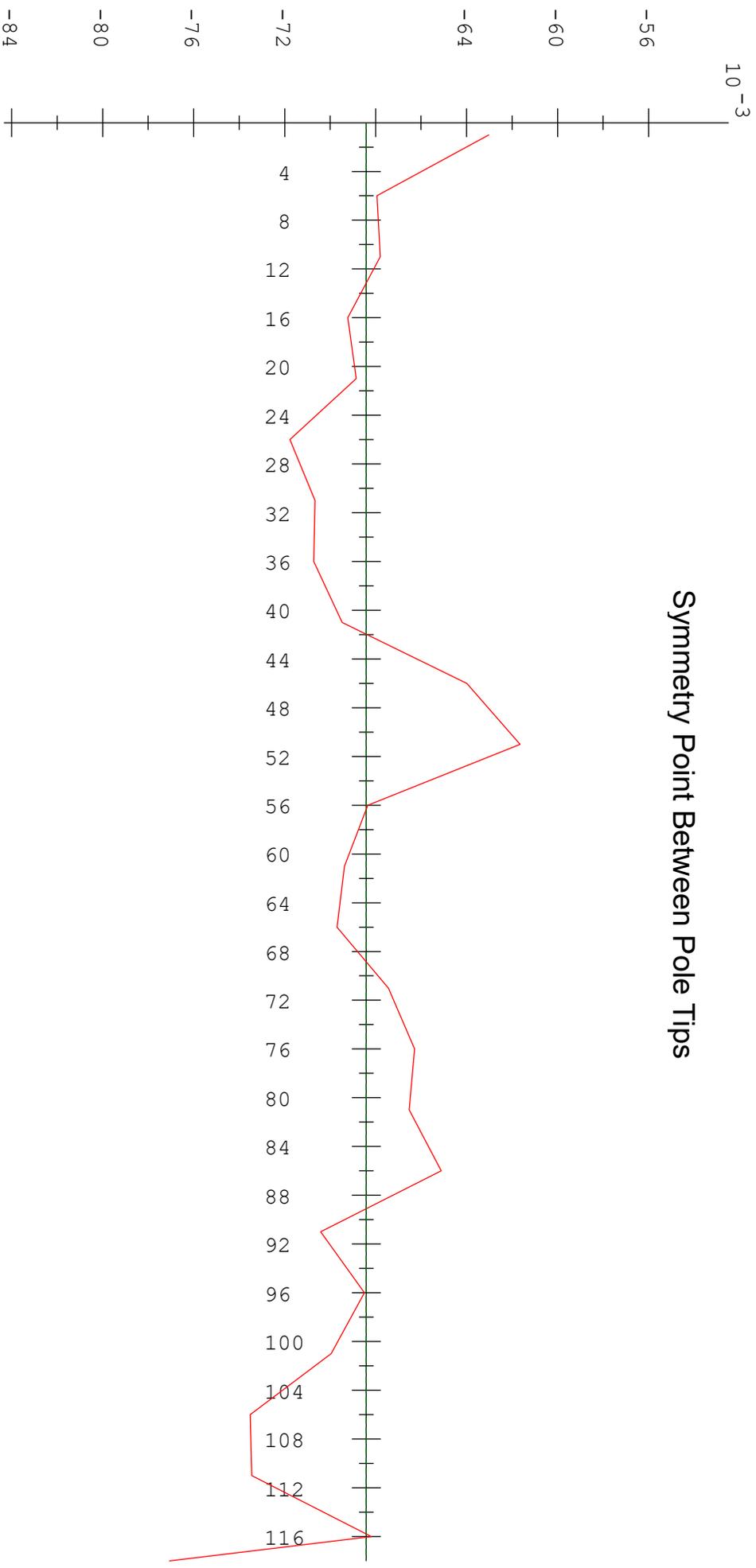
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 7.5
Nominal Taper = 0.000
Gap Reading = 7.5000
US Encoder = 7.5000
DS Encoder = 7.5000

23-MAY-2024
S/N = 023
D/S = 0001
Run = 9

Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0684

Step Between Measured Pole Tips = 5

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 7.5 Nominal Taper = 0.000
Gap Reading = 7.5000 US Encoder = 7.5000 DS Encoder = 7.5000

23-MAY-2024
S/N = 023
D/S = 0001
Run = 9

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	3.6752	3.6755	3.6760	3.6763
Bottom	-3.8086	-3.8107	-3.8156	-3.8178
Gap	7.4838			7.4941
Taper				0.0103

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.6757	-3.8125	7.4882	-0.0684

Additional Calculated Values

Bottom Pole #1 Z Value	979.438
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	-0.003
Minimum Effective Gap	7.471
Reference Block Gap	6.799

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 7.5 Nominal Taper = 0.000
 Gap Reading = 7.5000 US Encoder = 7.5000 DS Encoder = 7.5000

23-MAY-2024
 S/N = 023
 D/S = 0001
 Run = 9