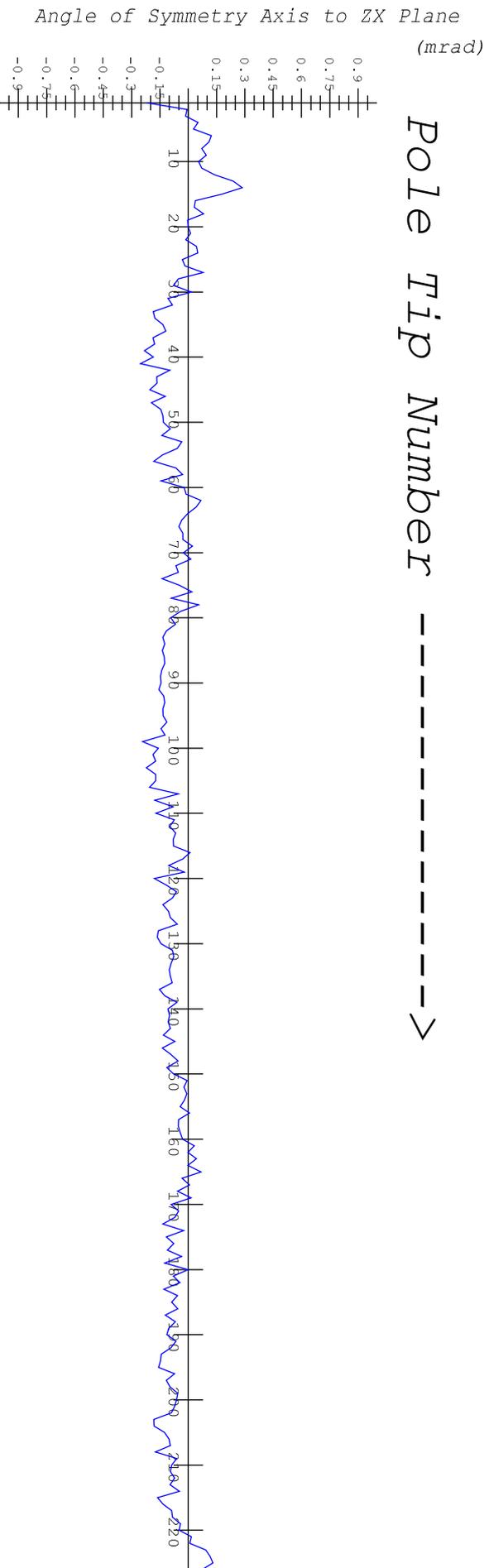


Pole Tip Number ----->



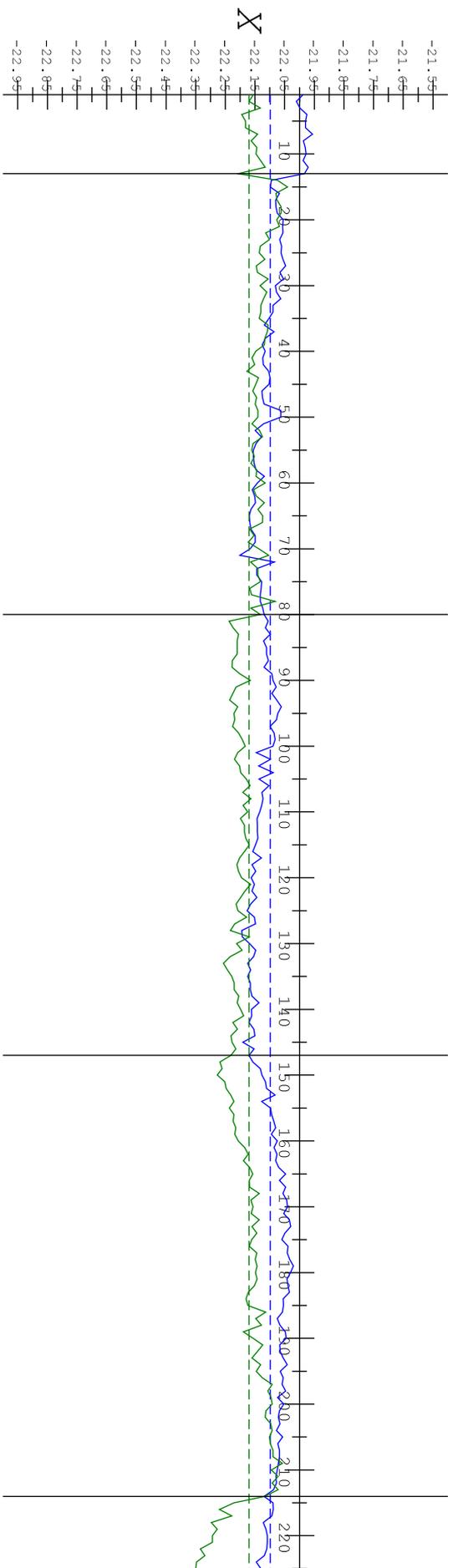
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
 Included Angle is the angle between the Upper and Lower Pole Tips

**SLAC**  
 LCLS-MMF  
 LEITZ CMM

Undulator Pole Tip Angles  
 Post Magnetic Alignment

DATE: 10-AUG-2007  
 UNDULATOR # 11  
 DATASET # 0002  
 PROGRAM VERSION 2.1

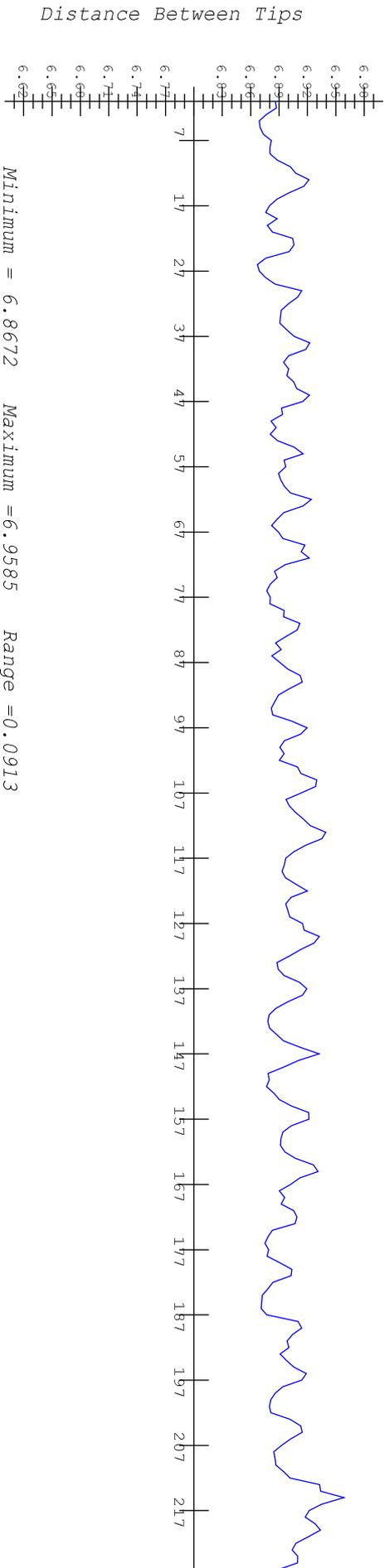
# Pole Tip Number ----->



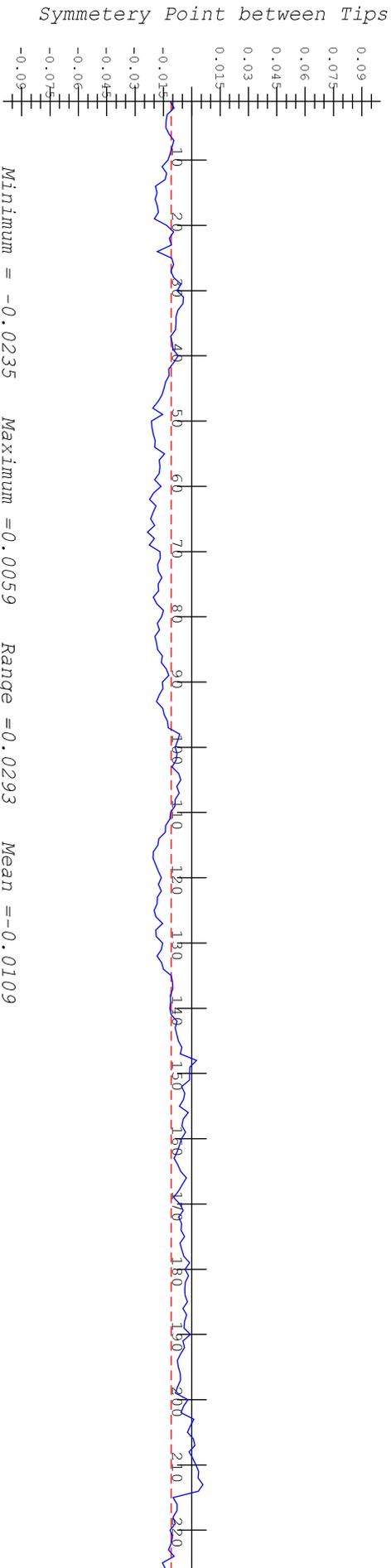
**SLAC**  
 LCLS-MMF  
 LEITZ CMM

Undulator Pole Tip Location  
 Post Magnetic Alignment

DATE: 10-AUG-2007  
 UNDUULATOR # 11  
 DATASET # 0002  
 PROGRAM VERSION 2.1



Pole Tip Number ----->



Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L  
 Broken Red line is Mean Value of Symmetry Points  
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L

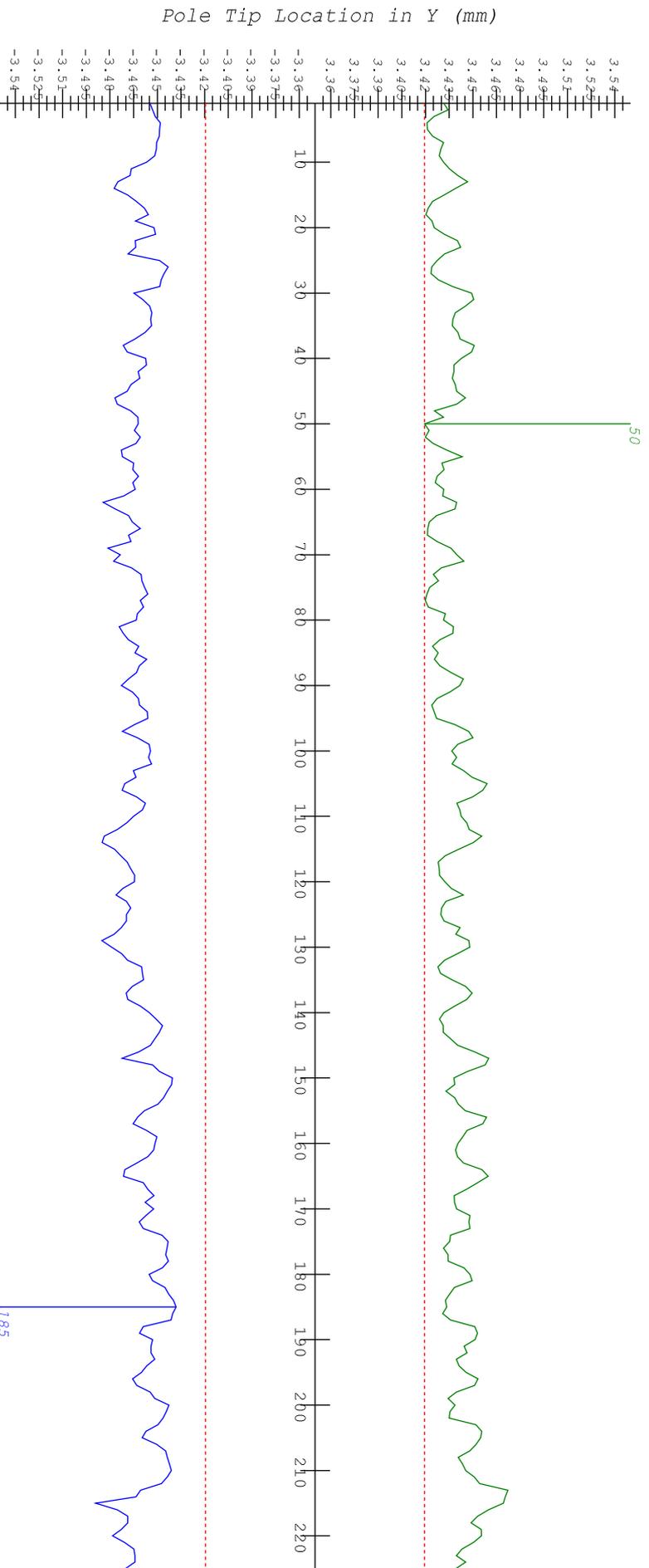
**SLAC**  
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 LEITZ CMM

Undulator Pole Tip Location  
 Post Magnetic Alignment

DATE: 10-AUG-2007  
 UNDUULATOR # 11  
 DATASET # 0002  
 PROGRAM VERSION 2.1

Maximum Chamber Gap = 6.8389

Minimum = 3.4195    Maximum = 3.4723    Range = 0.0528



Minimum = -3.4891    Maximum = -3.4381    Range = 0.0510

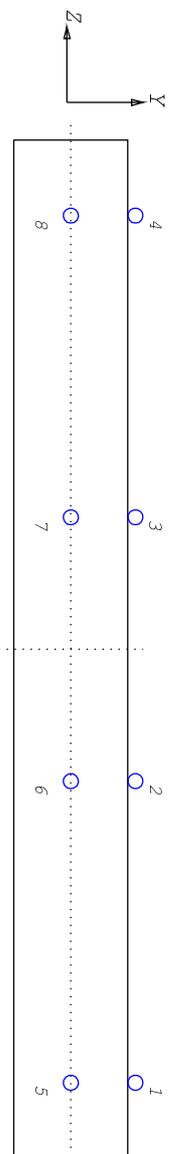
Pole Tip Number ----->

Green = The position of the Upper Pole Tips at Magnetic C\L  
Blue = The position of the Lower Pole Tips at Magnetic C\L  
Max. Chamber Gap = The maximum width vacuum chamber that will fit centered on the Magnetic C\L (2\*Min. Dev. from C\L)

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LEITZ CMM

Undulator Pole Tip Location  
Post Magnetic Alignment

DATE: 10-AUG-2007  
UNDULATOR # 11  
DATASET # 0002  
PROGRAM VERSION 2.1



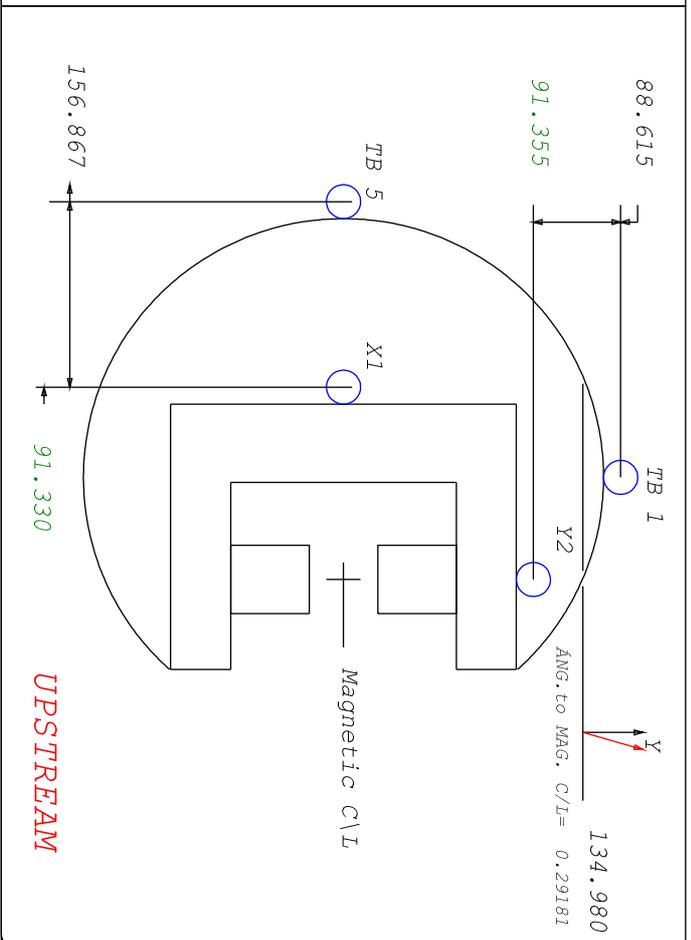
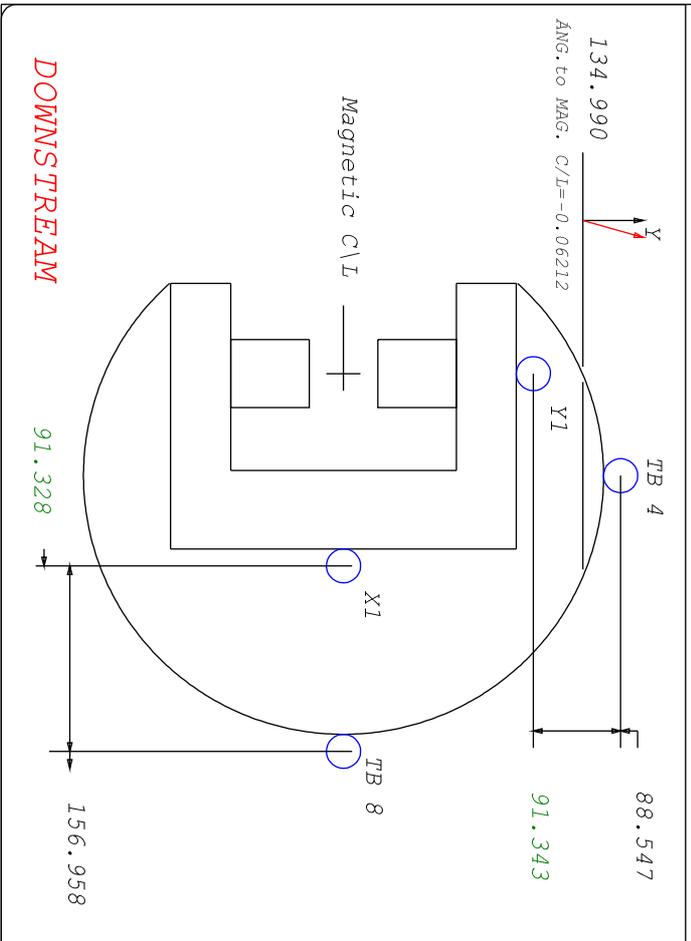
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0787	179.9697	-1558.339
2	0.0756	179.8874	-584.7035
3	0.0733	179.8267	591.2727
4	0.0799	179.8905	1562.1013
5	248.1968	0.0546	-1558.242
6	248.3315	0.2342	-584.6589
7	248.2790	0.0644	591.3655
8	248.2861	-0.0303	1562.1027

	C/L Offset	Length
Top Magnetic Structure	-0.018	3381.089
Bottom Magnetic Structure	0.018	3381.197
Strongback	0.063	3400.442

Dimensions in mm

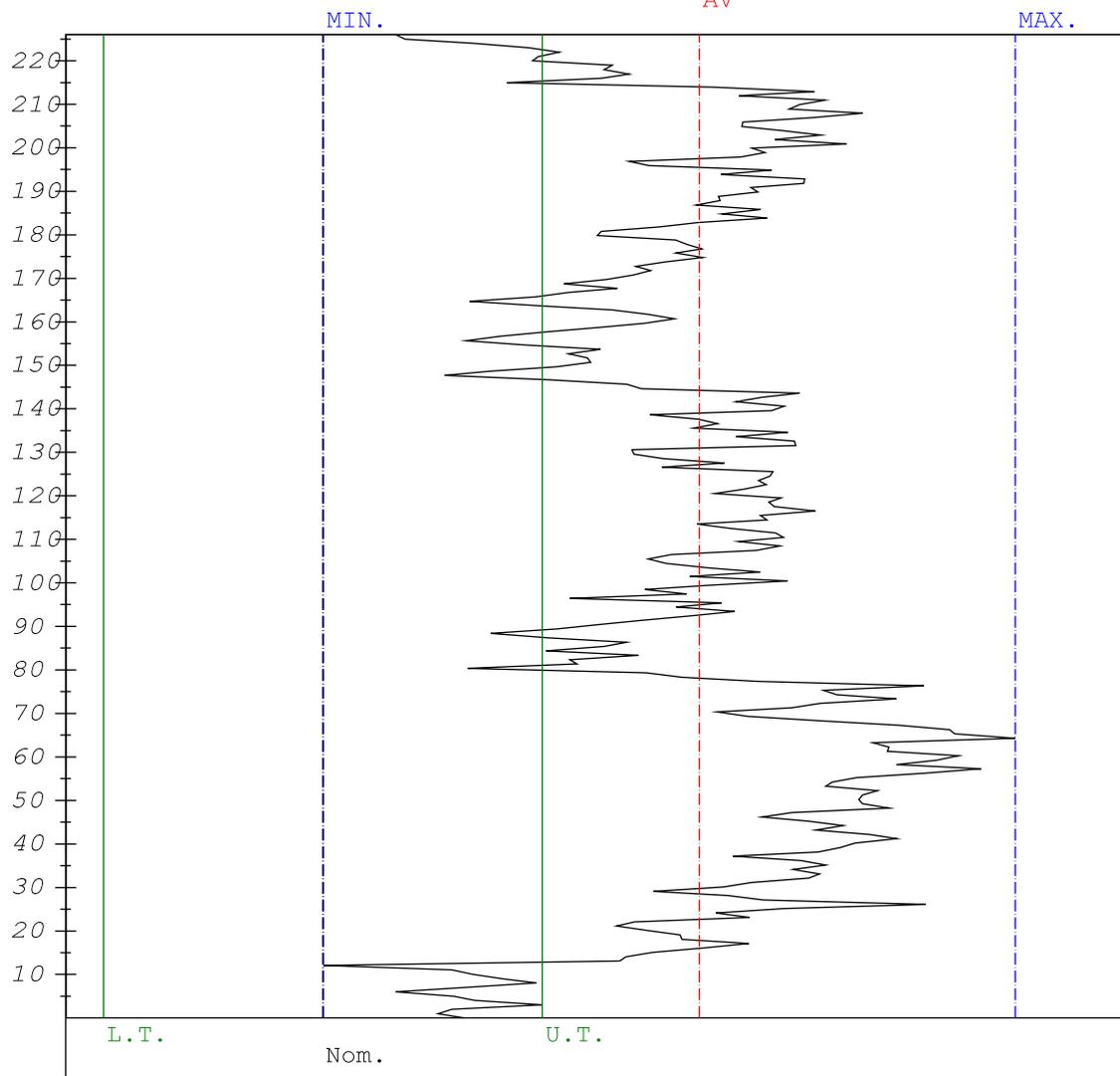
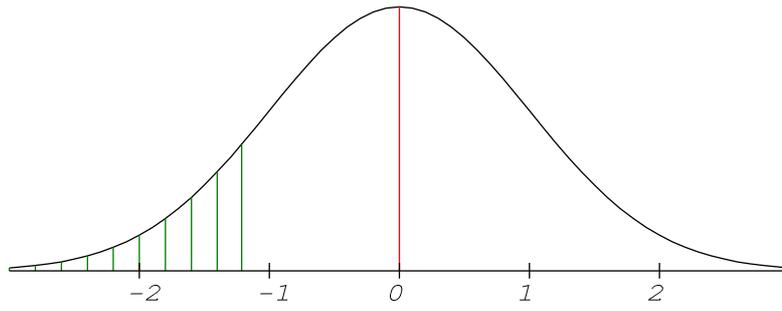
Angles in mrad



**SLAC**  
LCLS-MMF  
LEITZ CMM

Undulator Fiducialization  
Post Magnetic Alignment

DATE: 10-AUG-2007  
UNDULATOR # 11  
DATASET # 0002  
PROGRAM VERSION 2.1



Nominal : 4.5000	Averag : 5.3581	Cent.-Dev. : 0.8581
Up. Tol. : 0.5	Maximum : 6.0784	U.Tol.Ex. > : 88.8 %
Low.Tol. : -0.5	Minimum : 4.5013	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2951	In Tolerance: 11.2 %
Outlier : 0	Distribution : NOR	Dimension : mrad

<p><b>SLAC</b> LCLS-MMF LEITZ CMM</p>	<p>Statistical Evaluation Pole Tip Gap Angle Post Magnetic Alignment</p>	<p>DATE:10-AUG-2007 UNDULATOR # 11 DATASET # 0002 PROGRAM VERSION 2.1</p>
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