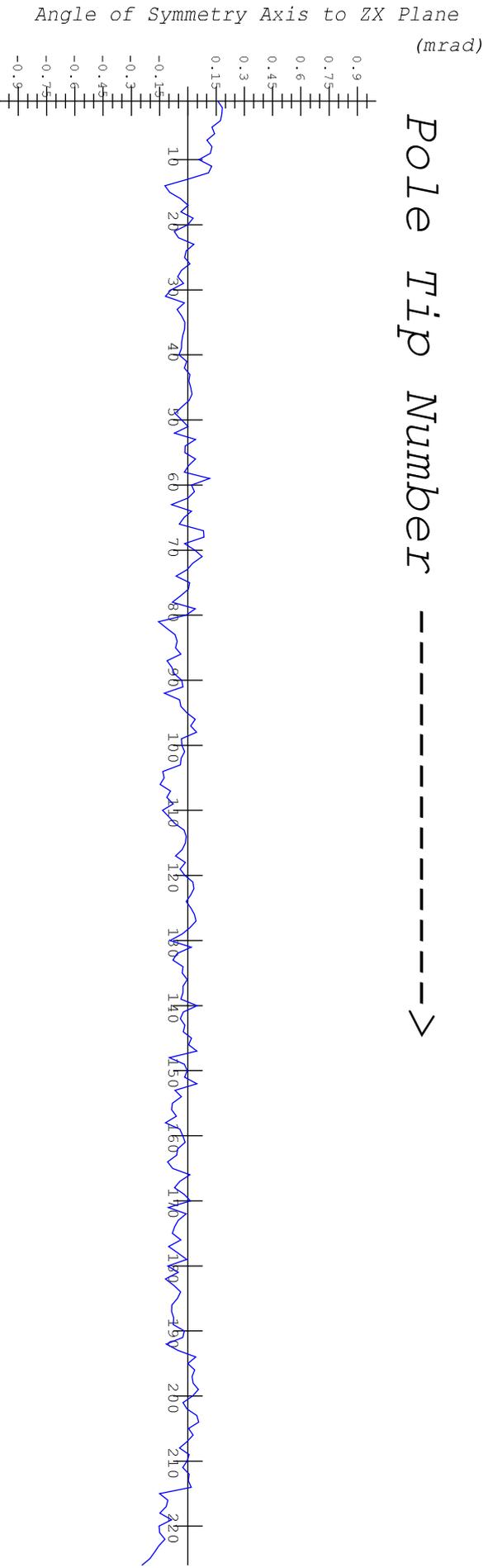


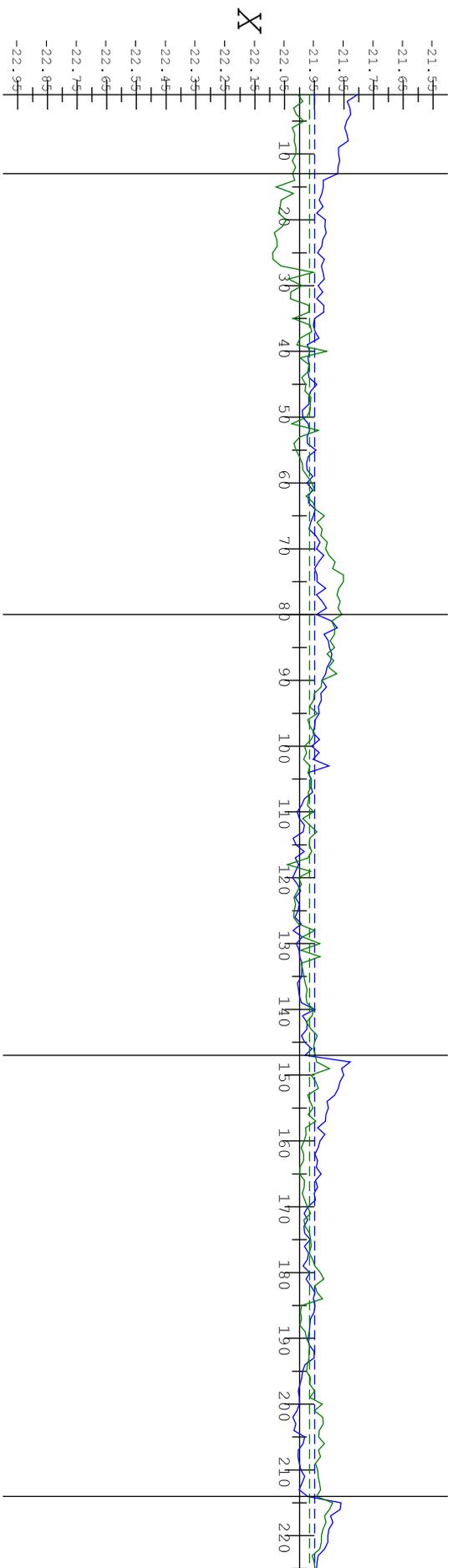
Pole Tip Number ----->



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

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Angles Post Magnetic Alignment</p>	<p>DATE: 01-NOV-2007 UNDULATOR # 39 DATASET # 0001 PROGRAM VERSION 2.3</p>
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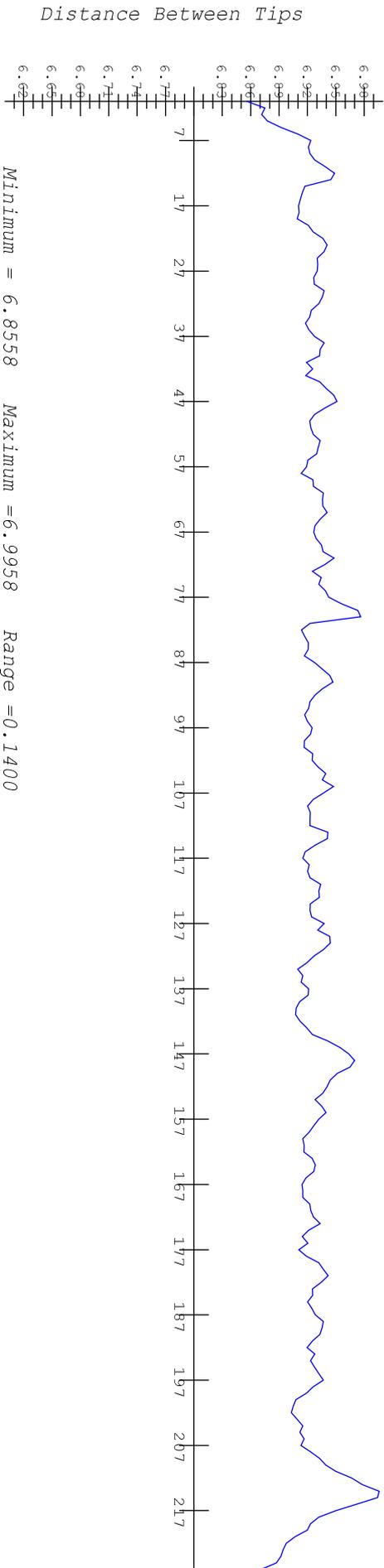
Pole Tip Number ----->



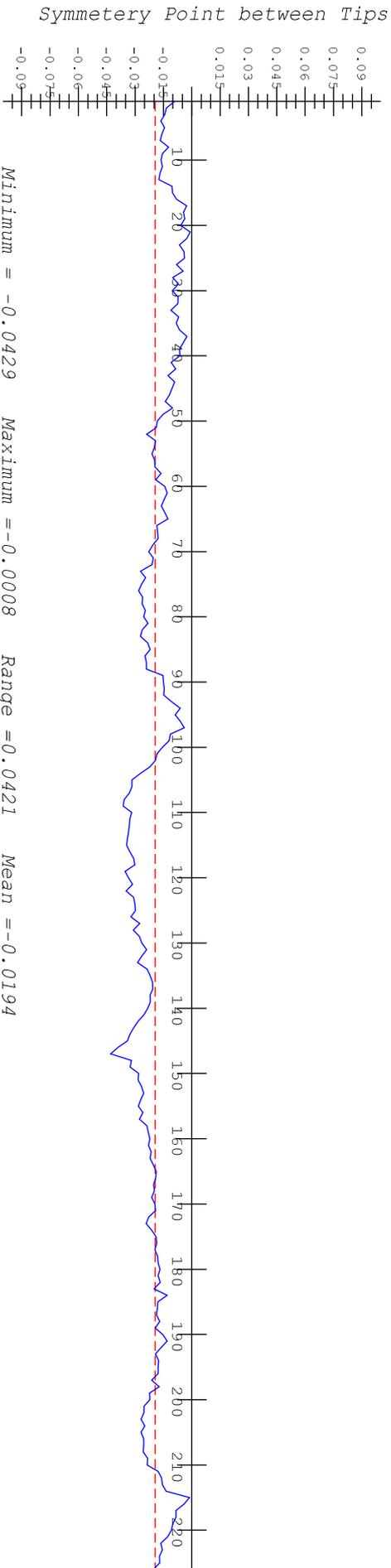
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 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 01-NOV-2007
 UNDUULATOR # 39
 DATASET # 0001
 PROGRAM VERSION 2.3



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

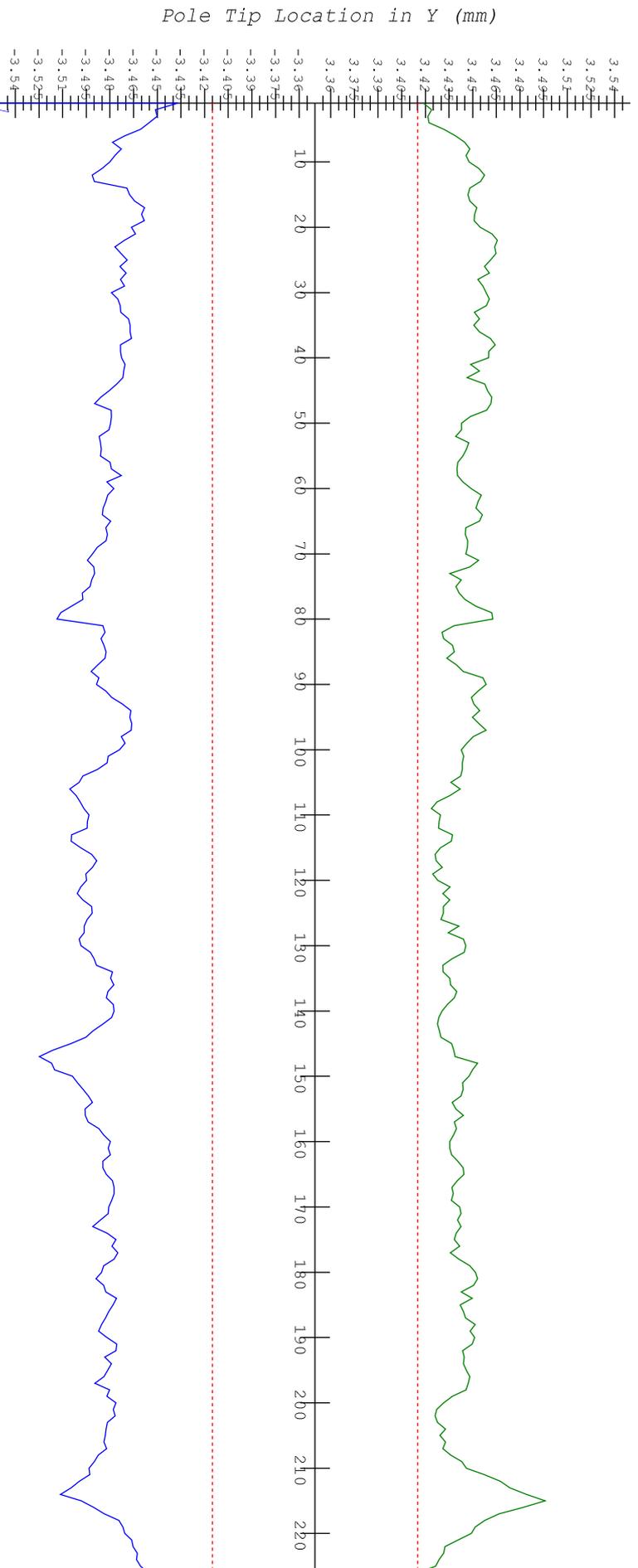
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 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 01-NOV-2007
 UNDUULATOR # 39
 DATASET # 0001
 PROGRAM VERSION 2.3

Maximum Chamber Gap = 6.8302

Minimum = 3.4151 Maximum = 3.4960 Range = 0.0809



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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Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 01-NOV-2007
UNDULATOR # 39
DATASET # 0001
PROGRAM VERSION 2.3



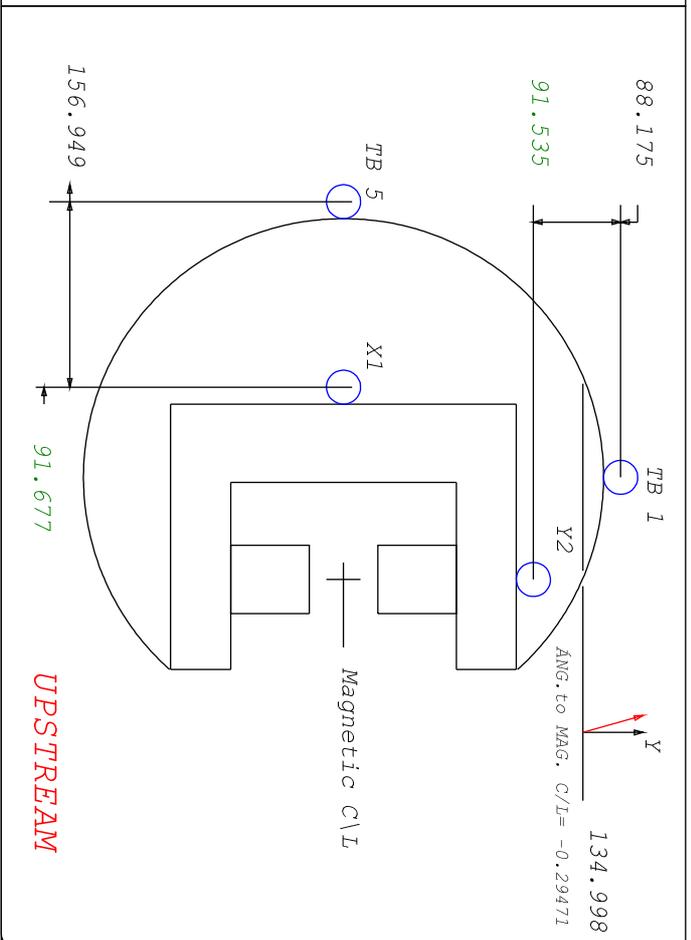
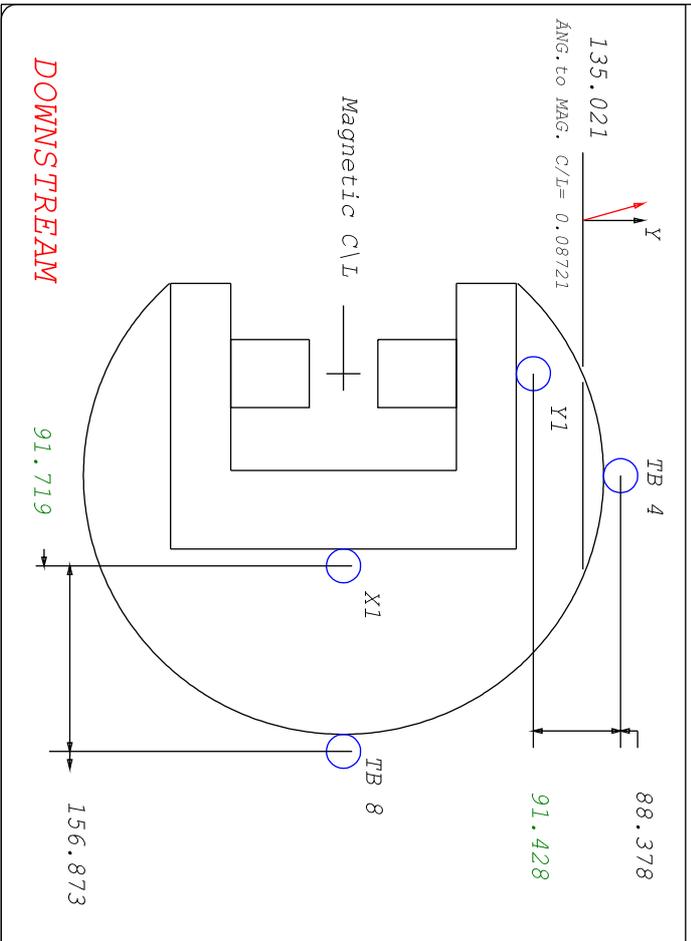
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2301	179.7100	-1558.546
2	0.3864	179.7853	-584.8662
3	0.4324	179.7592	591.1039
4	0.4305	179.8062	1561.9920
5	248.6256	0.1535	-1558.479
6	248.6360	0.0558	-584.8663
7	248.6827	0.0686	591.2007
8	248.5922	0.0935	1561.9829

Top Magnetic Structure C/L Offset Length 3381.226
 Bottom Magnetic Structure 0.001 3381.354
 Strongback 0.144 3399.997

Dimensions in mm

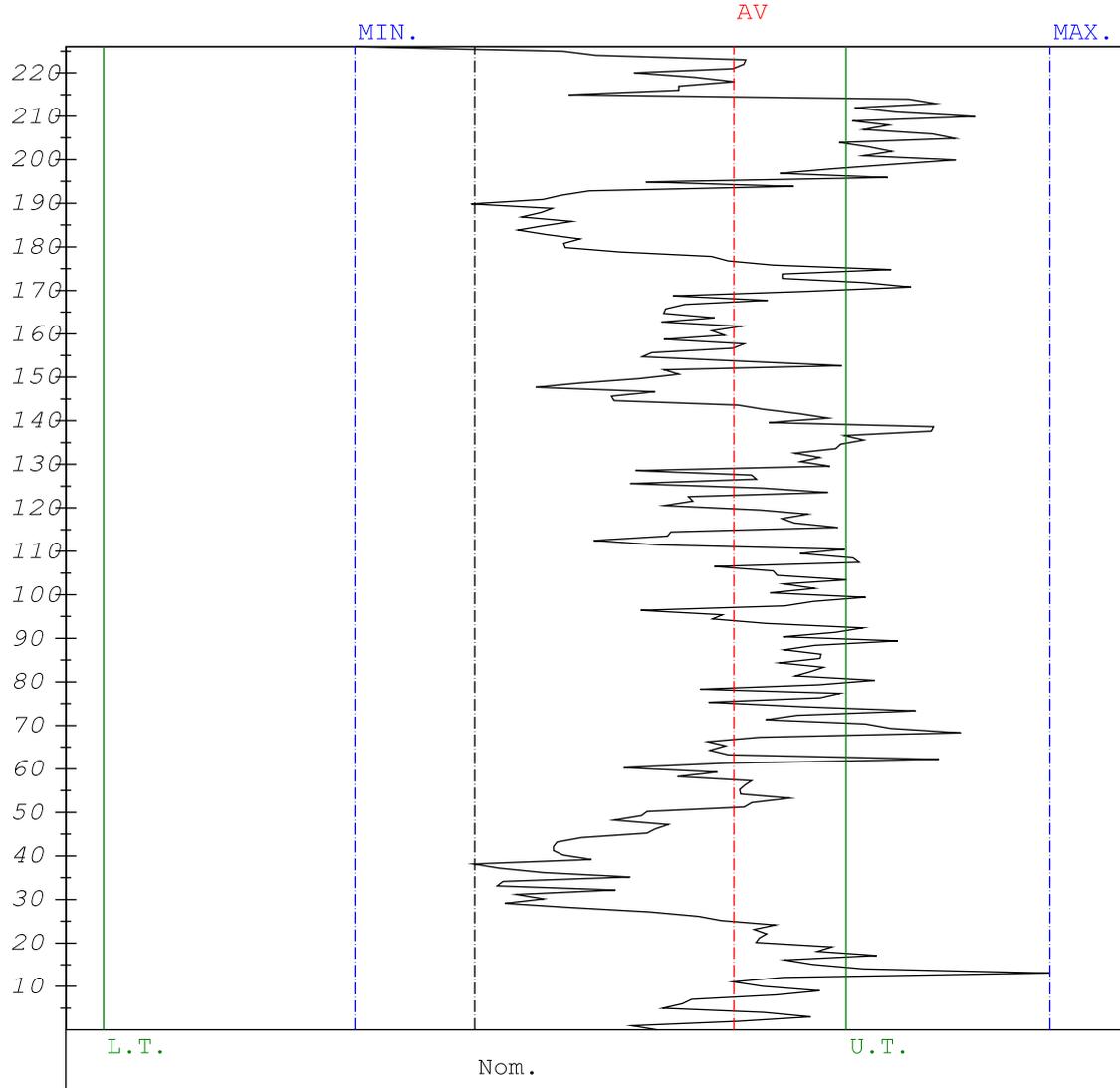
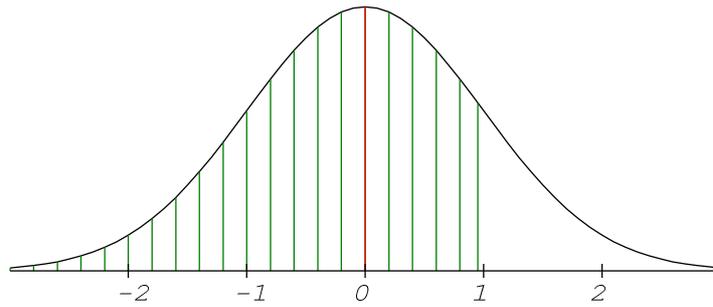
Angles in mrad



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Undulator Dimensional Fiducialization
 Post Magnetic Alignment

DATE: 01-NOV-2007
 UNDUATOR # 39
 DATASET # 0001
 PROGRAM VERSION 2.3



Nominal : 4.5000	Averag : 4.8491	Cent.-Dev. : 0.3491
Up. Tol. : 0.5	Maximum : 5.2748	U.Tol.Ex. > : 17.1 %
Low.Tol. : -0.5	Minimum : 4.3397	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1588	In Tolerance: 82.9 %
Outlier : 0	Distribution : NOR	Dimension : mrad

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Statistical Evaluation Pole Tip Gap Angle Post Magnetic Alignment</p>	<p>DATE:01-NOV-2007 UNDULATOR # 39 DATASET # 0001 PROGRAM VERSION 2.3</p>
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