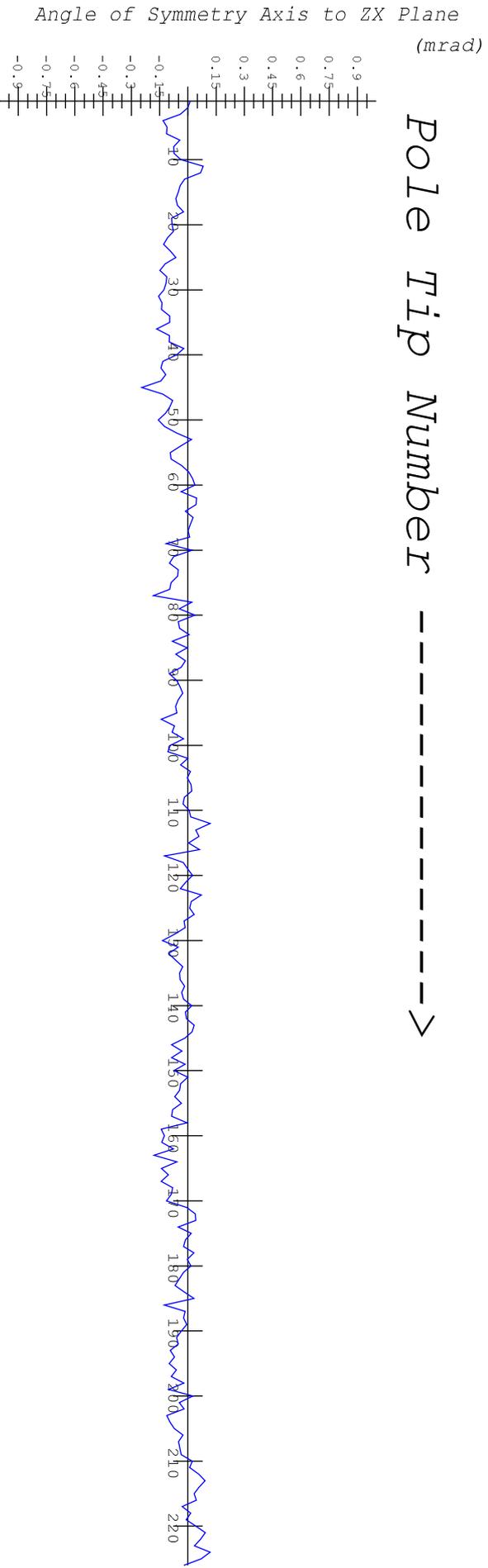


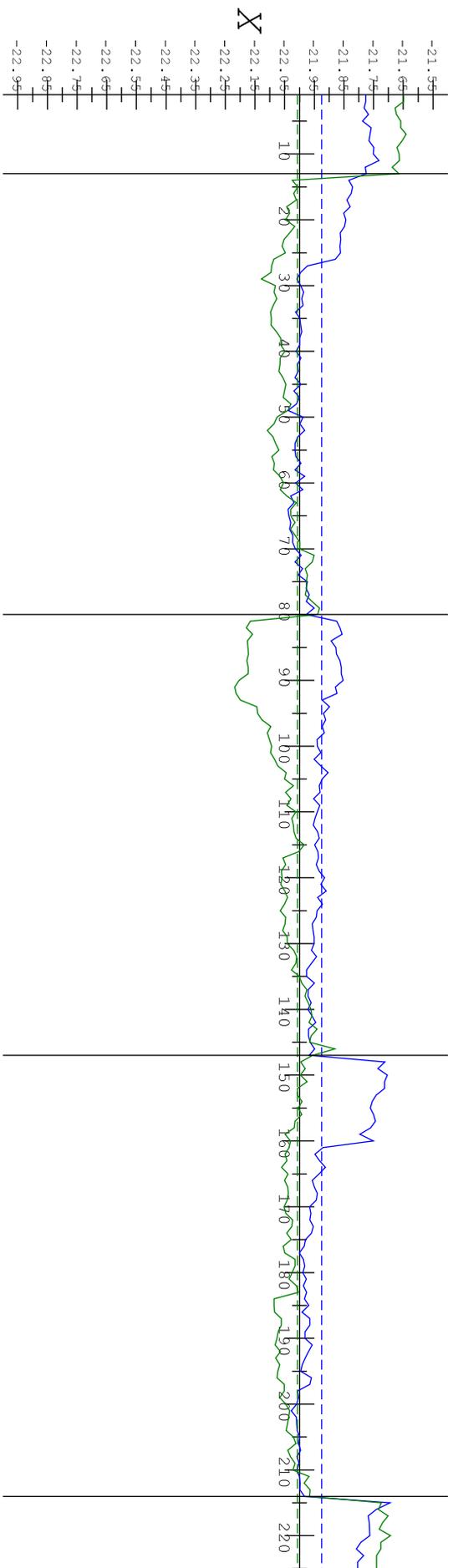
Pole Tip Number ----->



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

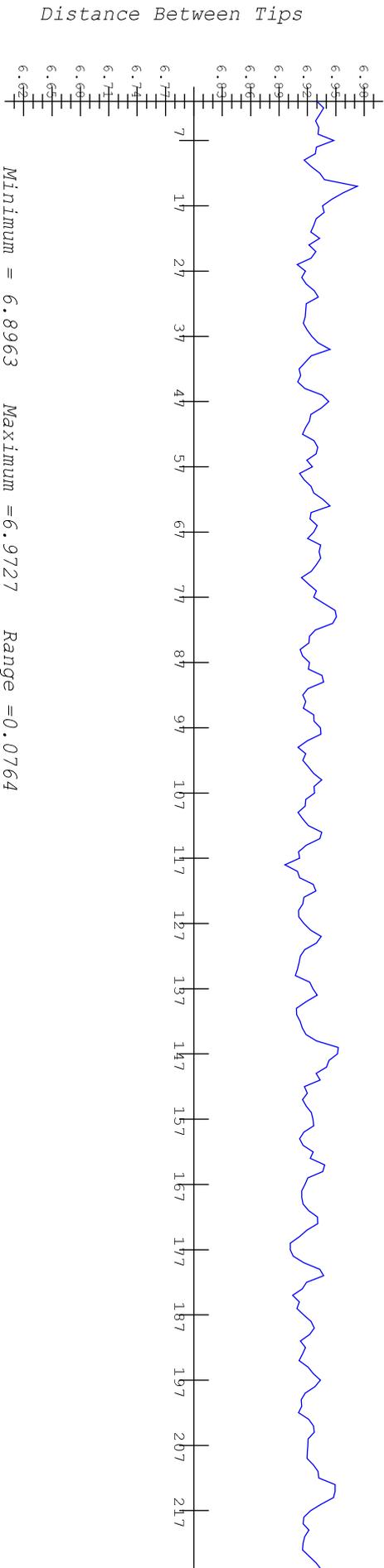
<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Angles Post Magnetic Alignment</p>	<p>DATE: 30-MAY-2008 UNDULATOR #08 DATASET # 0001 PROGRAM VERSION 2.7</p>
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Pole Tip Number ----->



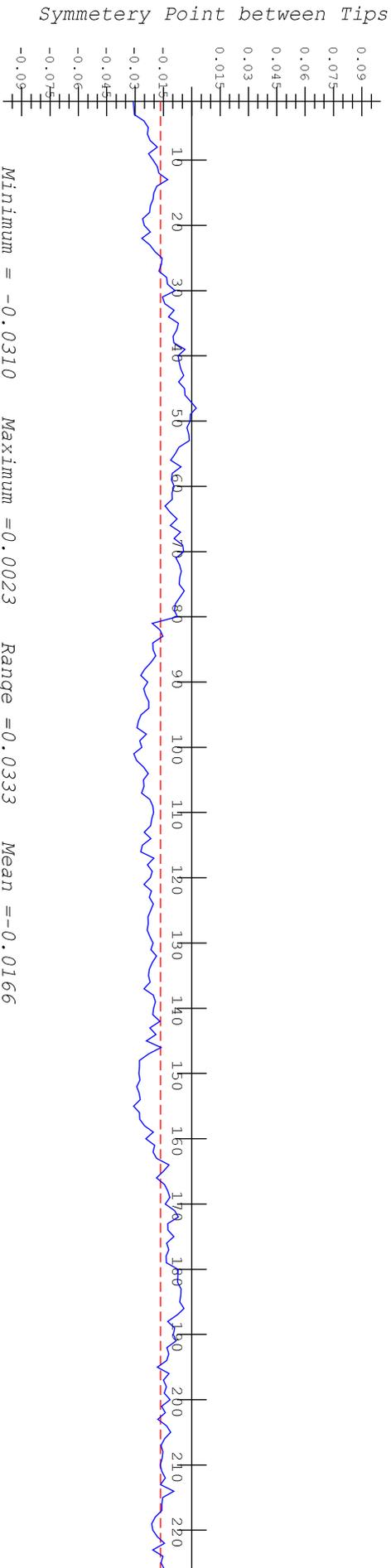
X values in mm
 Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L
 Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.007
 Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L
 Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -21.925

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Location Post Magnetic Alignment</p>	<p>DATE: 30-MAY-2008 UNDULATOR #08 DATASET # 0001 PROGRAM VERSION 2.7</p>
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in mm

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

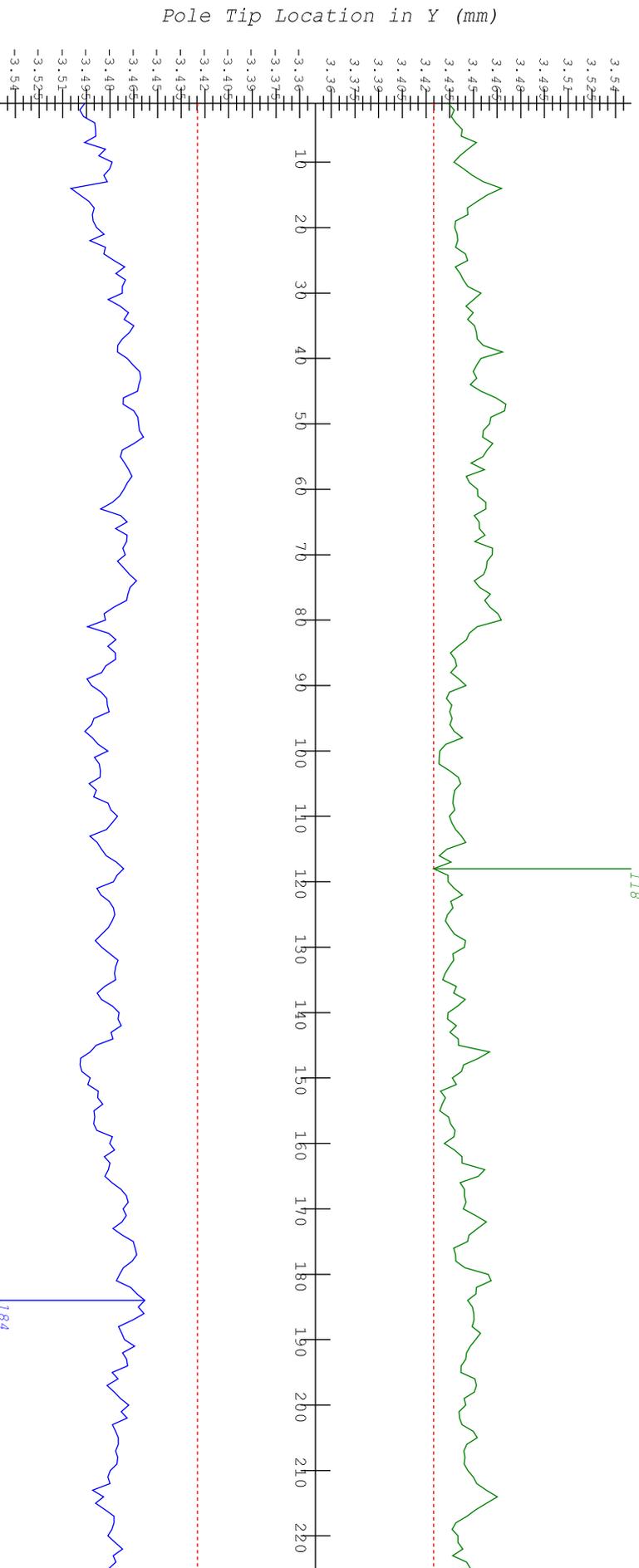
SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 30-MAY-2008
 UNDUULATOR #08
 DATASET # 0001
 PROGRAM VERSION 2.7

Maximum Chamber Gap = 6.8495

Minimum = 3.4248 Maximum = 3.4706 Range = 0.0458



Minimum = -3.5048 Maximum = -3.4581 Range = 0.0467

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: 30-MAY-2008
UNDULATOR #08
DATASET # 0001
PROGRAM VERSION 2.7



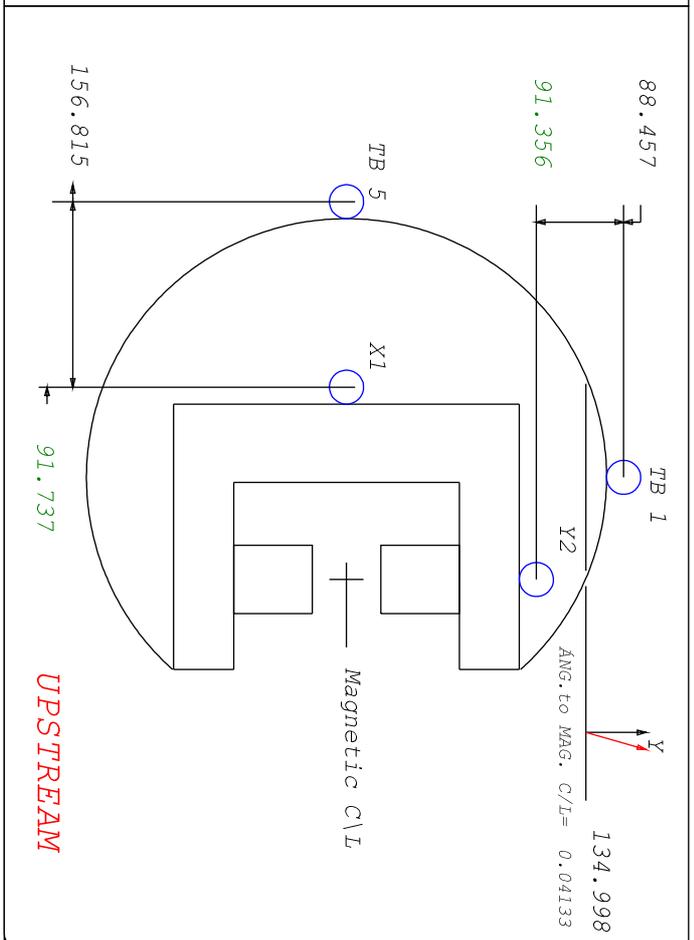
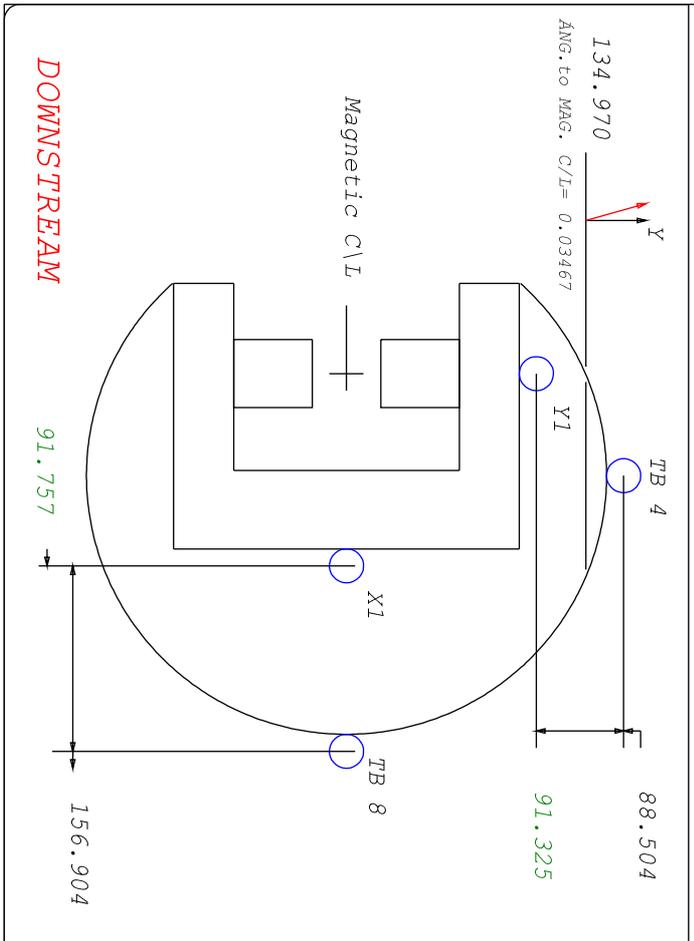
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2686	179.8135	-1558.294
2	0.3945	179.7651	-584.7444
3	0.4074	179.7170	591.2900
4	0.4188	179.8286	1562.1324
5	248.5523	-0.0774	1558.237
6	248.7428	0.0042	-584.6421
7	248.6832	0.0215	591.4437
8	248.6615	-0.0353	1562.1618

	C/L Offset	Length
Top Magnetic Structure	0.036	3381.027
Bottom Magnetic Structure	-0.036	3380.929
Strongback	0.310	3400.006

Dimensions in mm

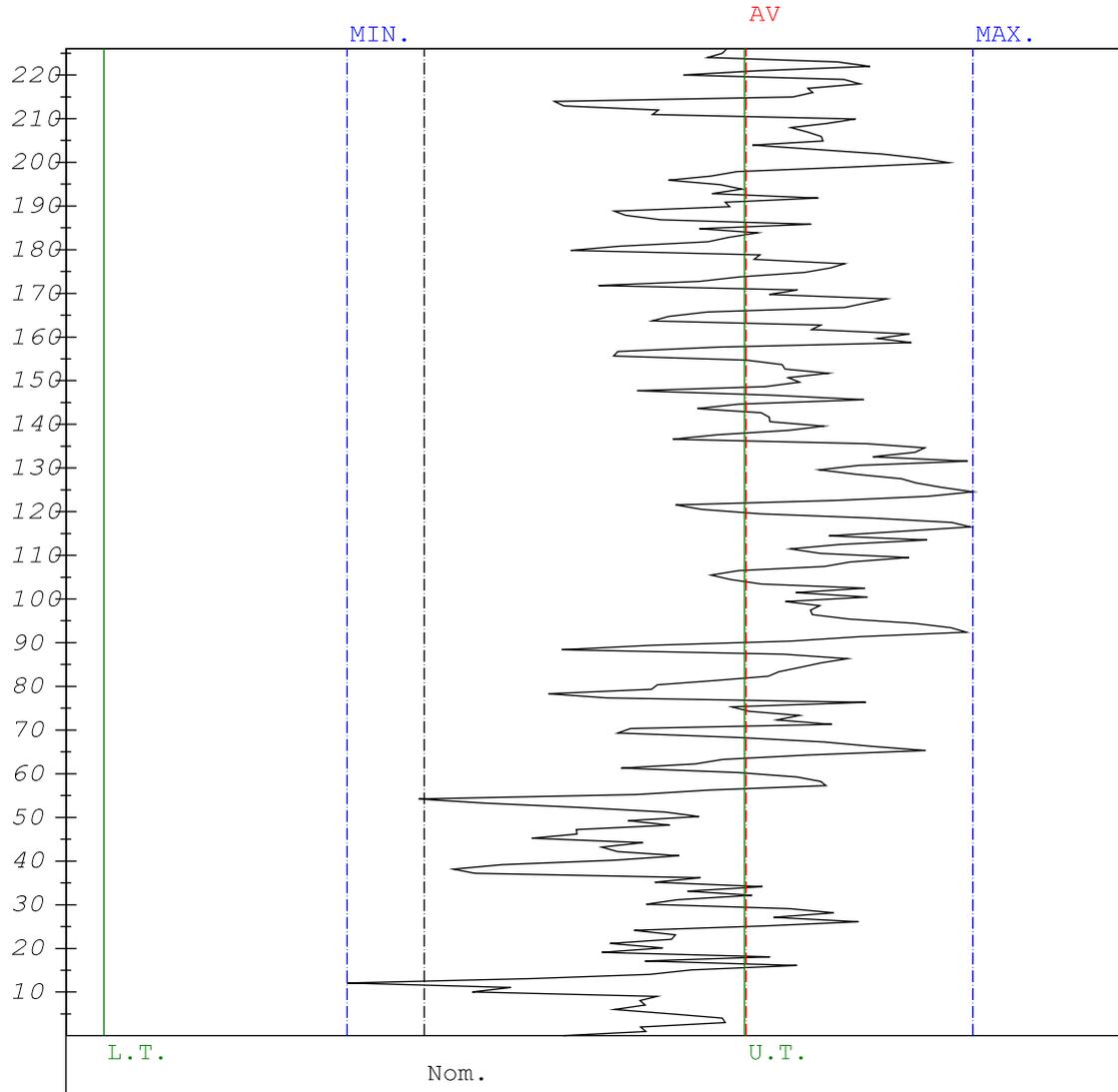
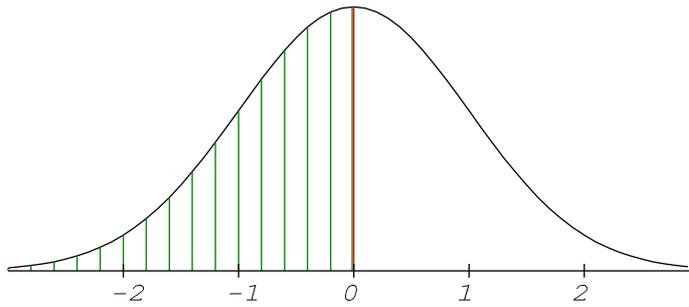
Angles in mrad



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Undulator Dimensional Fiducialization
 Post Magnetic Alignment

DATE: 30-MAY-2008
 UNDUATOR #08
 DATASET # 0001
 PROGRAM VERSION 2.7



Nominal : 4.5000	Averag : 5.002	Cent.-Dev. : 0.502
Up. Tol. : 0.5	Maximum : 5.3559	U.Tol.Ex. > : 50.5 %
Low.Tol. : -0.5	Minimum : 4.3795	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1796	In Tolerance: 49.5 %
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: 30-MAY-2008 UNDULATOR #08 DATASET # 0001 PROGRAM VERSION 2.7</p>
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