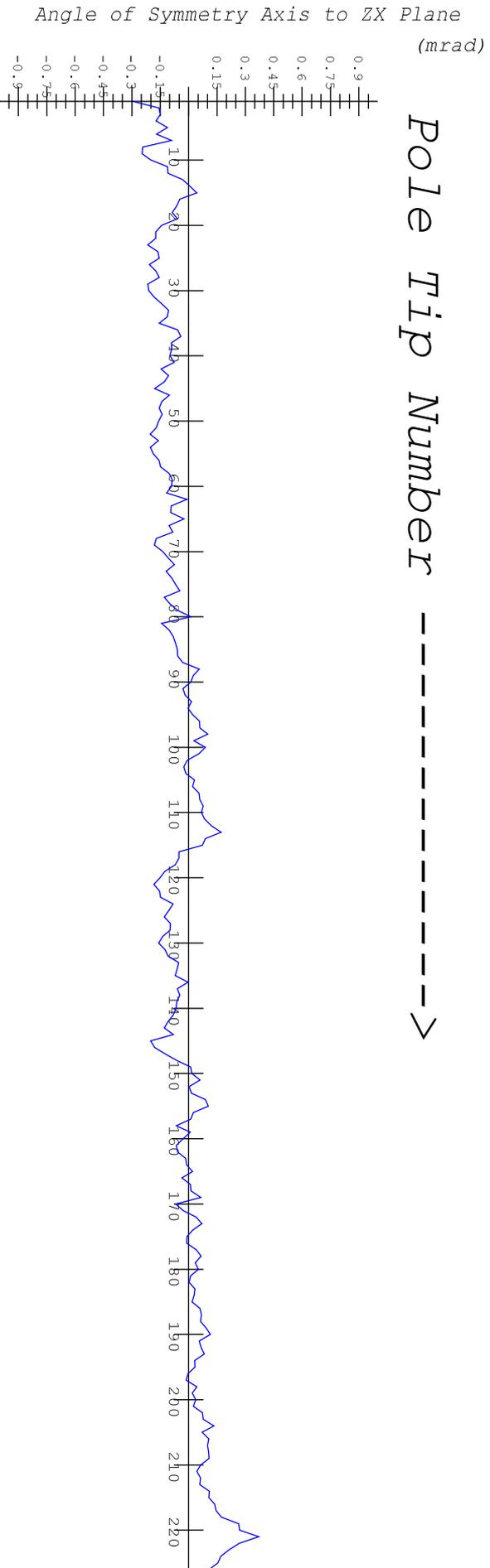


Pole Tip Number ----->



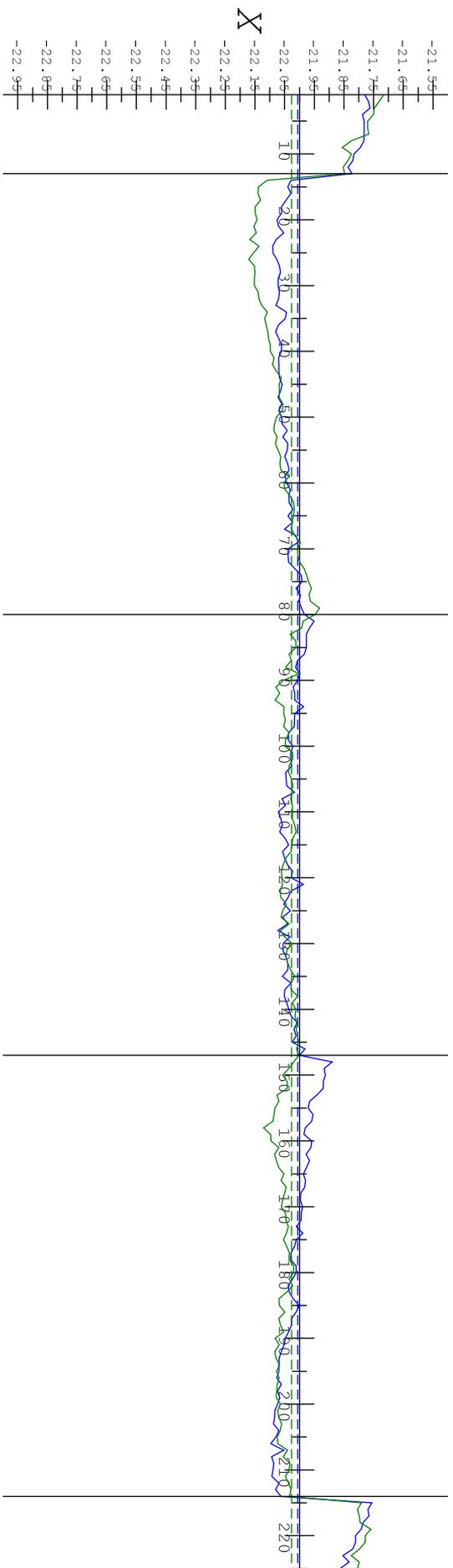
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 18-JUL-2008
 UNDULATOR #16
 DATASET # 0003
 PROGRAM VERSION 2.7

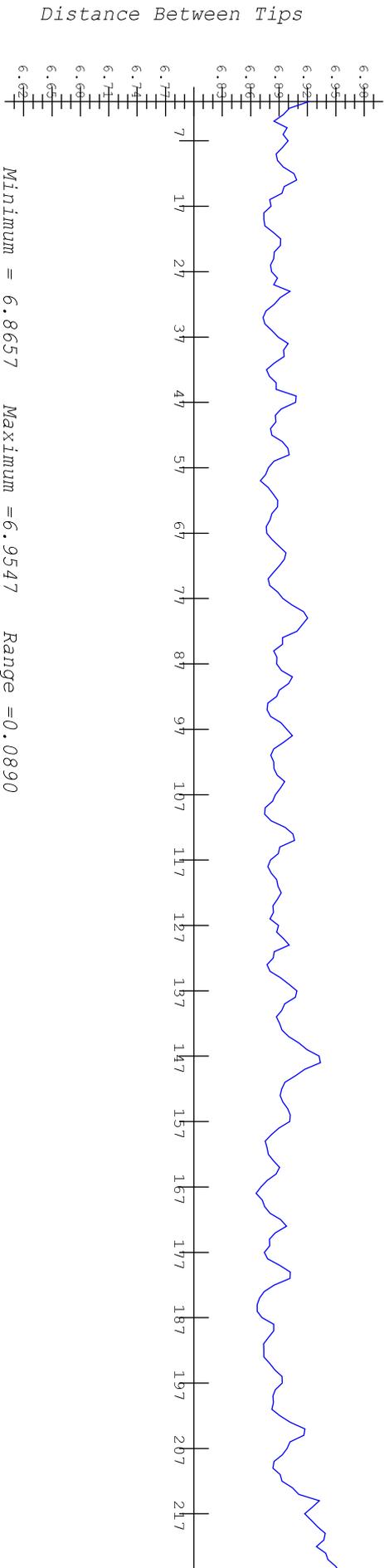
Pole Tip Number ----->



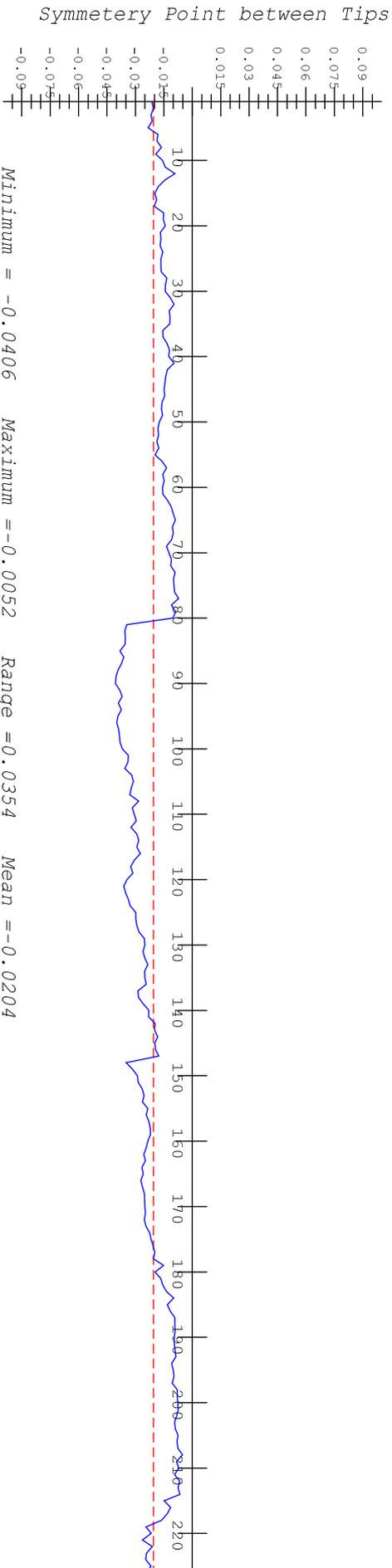
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 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

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 DATASET # 0003
 PROGRAM VERSION 2.7



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

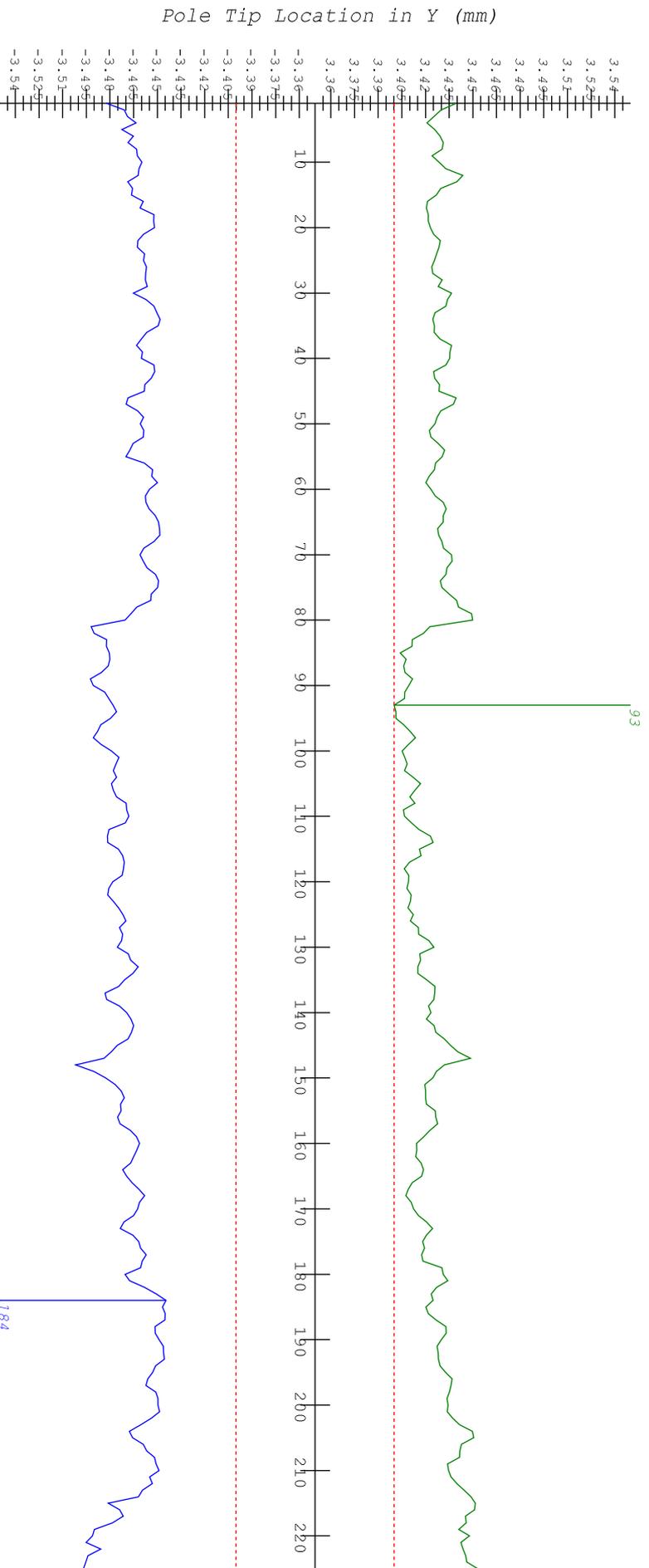
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Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8003

Minimum = 3.4001 Maximum = 3.4531 Range = 0.0529



Minimum = -3.5017 Maximum = -3.4446 Range = 0.0571

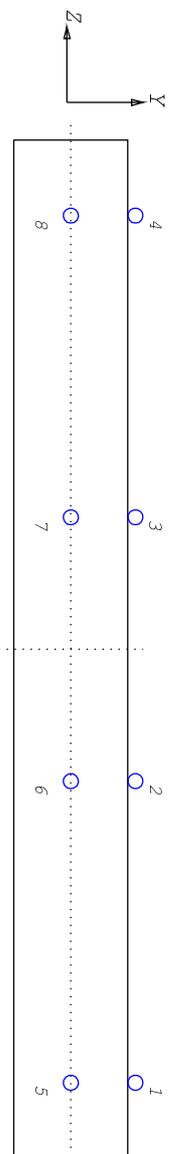
Pole Tip Number ----->

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

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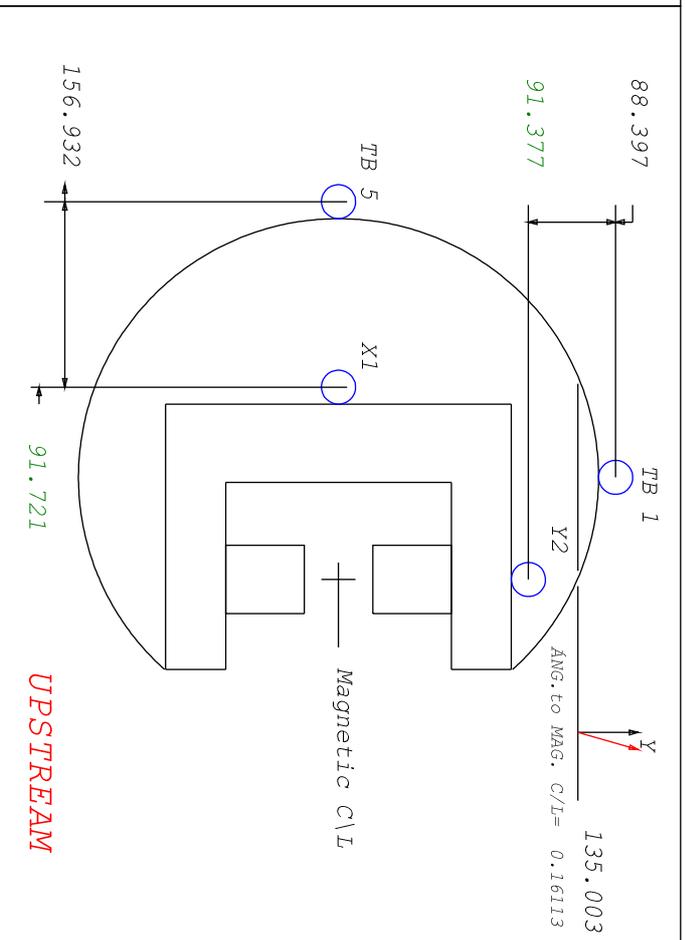
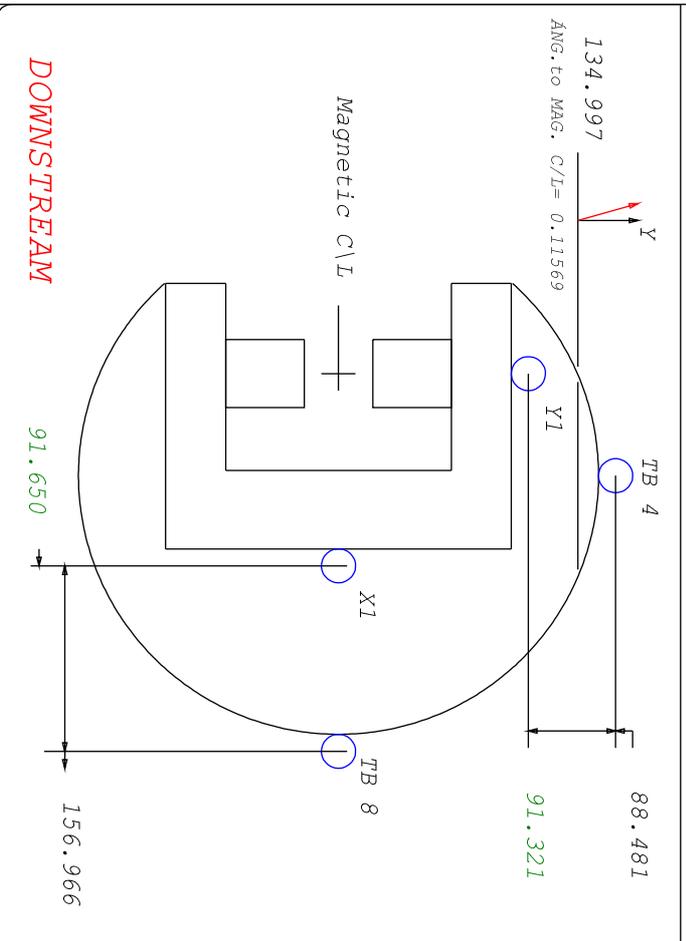
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.3258	179.7738	-1558.436
2	0.4451	179.6661	-584.7344
3	0.4308	179.7376	591.2283
4	0.4160	179.8023	1562.0180
5	248.6530	0.0634	1558.350
6	248.6386	0.0670	-584.6837
7	248.6451	0.0487	591.3077
8	248.6158	0.0160	1562.1964

	C/L Offset	Length
Top Magnetic Structure	0.096	3381.397
Bottom Magnetic Structure	-0.096	3381.096
Strongback	0.240	3399.959

Dimensions in mm

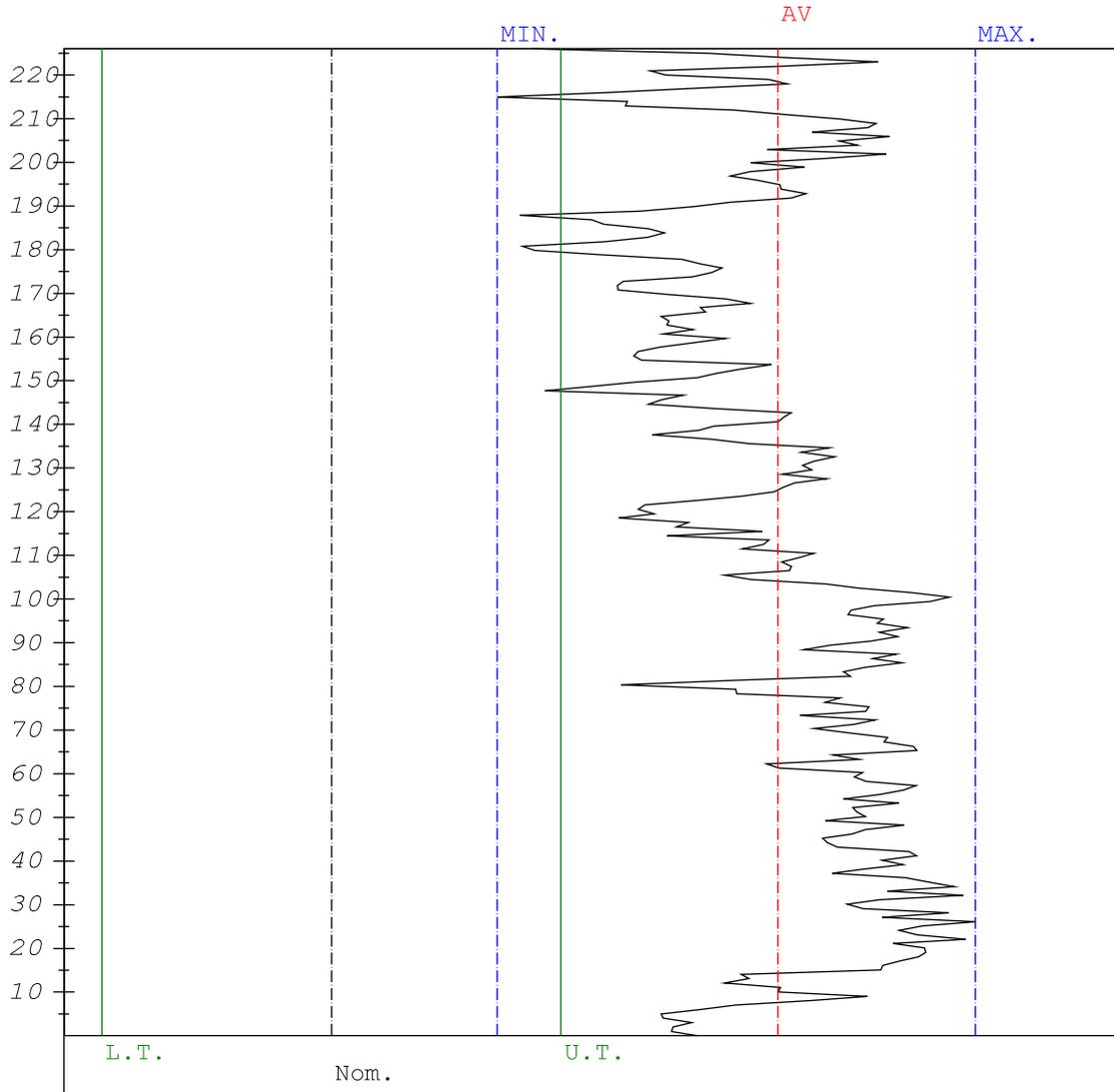
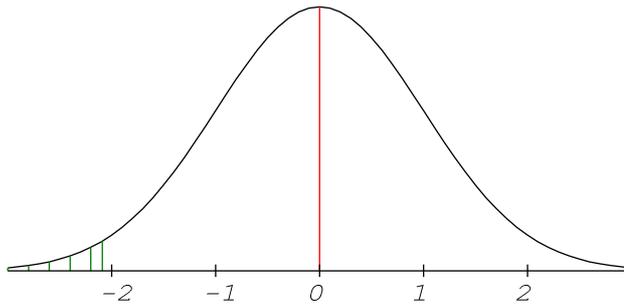
Angles in mrad



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Undulator Dimensional Fiducialization
Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.4723	Cent.-Dev. : 0.9723
Up. Tol. : 0.5	Maximum : 5.9026	U.Tol.Ex. > : 98.2 %
Low.Tol. : -0.5	Minimum : 4.8610	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2262	In Tolerance: 1.8 %
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:18-JUL-2008 UNDULATOR #16 DATASET # 0003 PROGRAM VERSION 2.7</p>
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