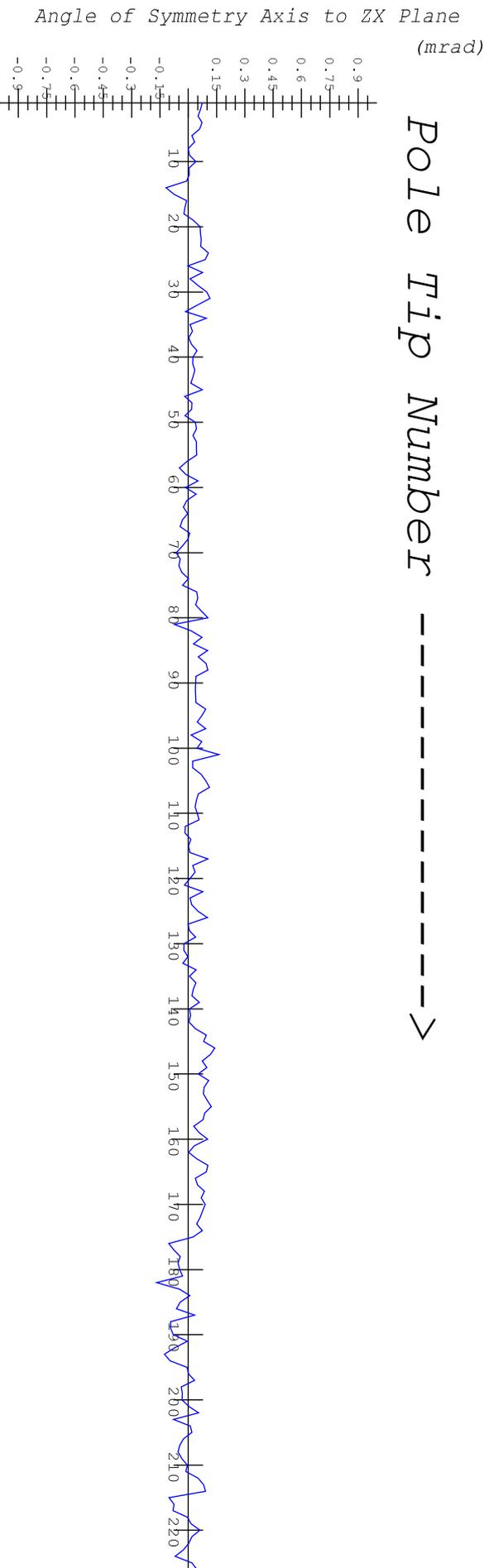


Pole Tip Number ----->



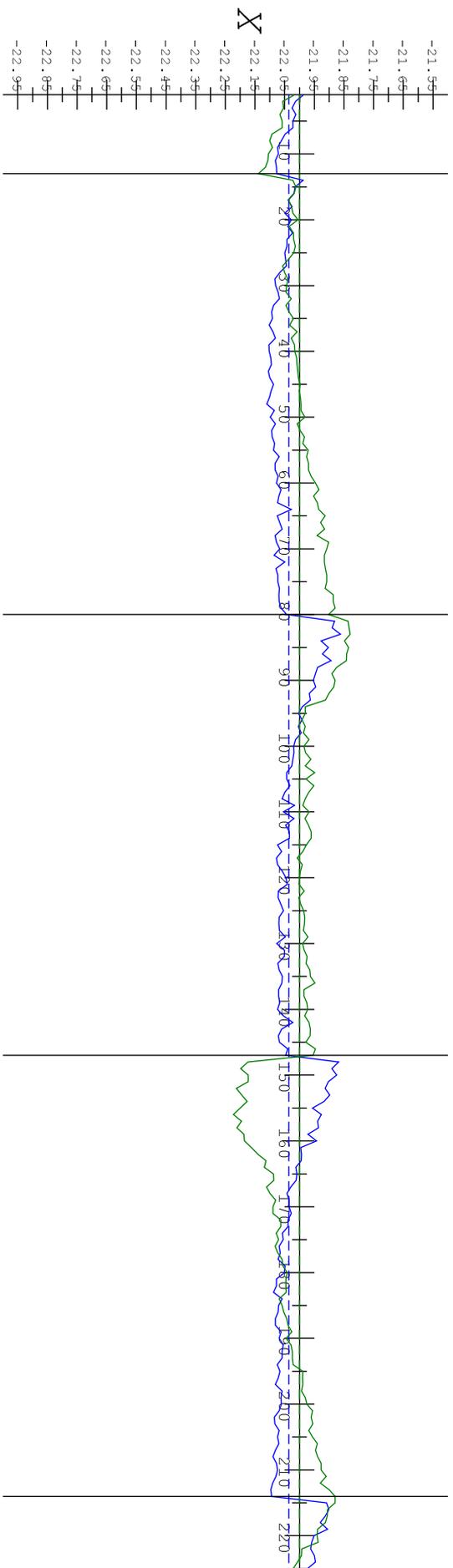
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 03-APR-2008
 UNDULATOR # 28
 DATASET # 0001
 PROGRAM VERSION 2.6

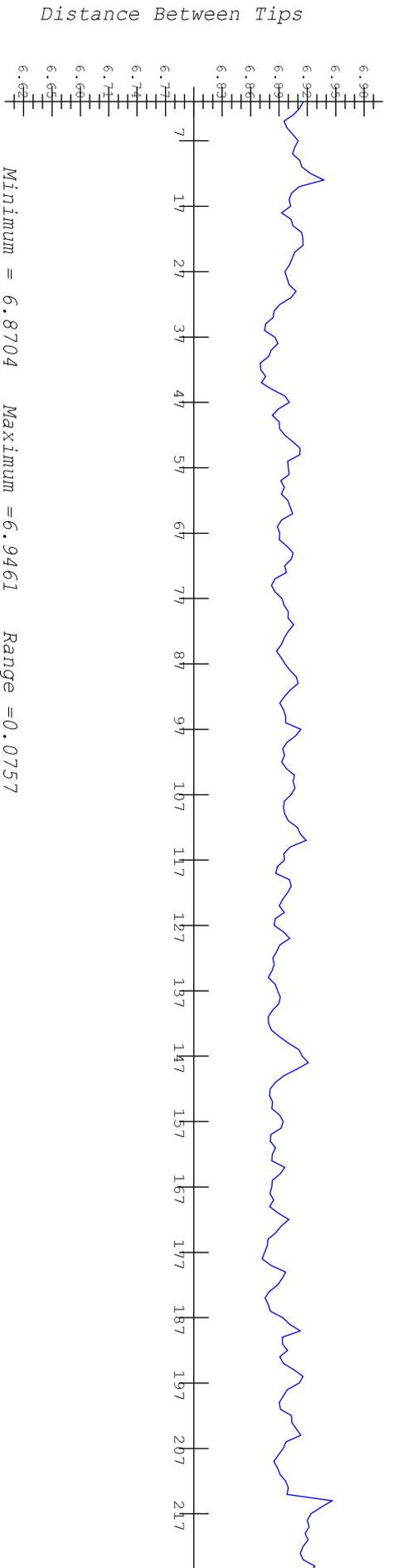
Pole Tip Number ----->



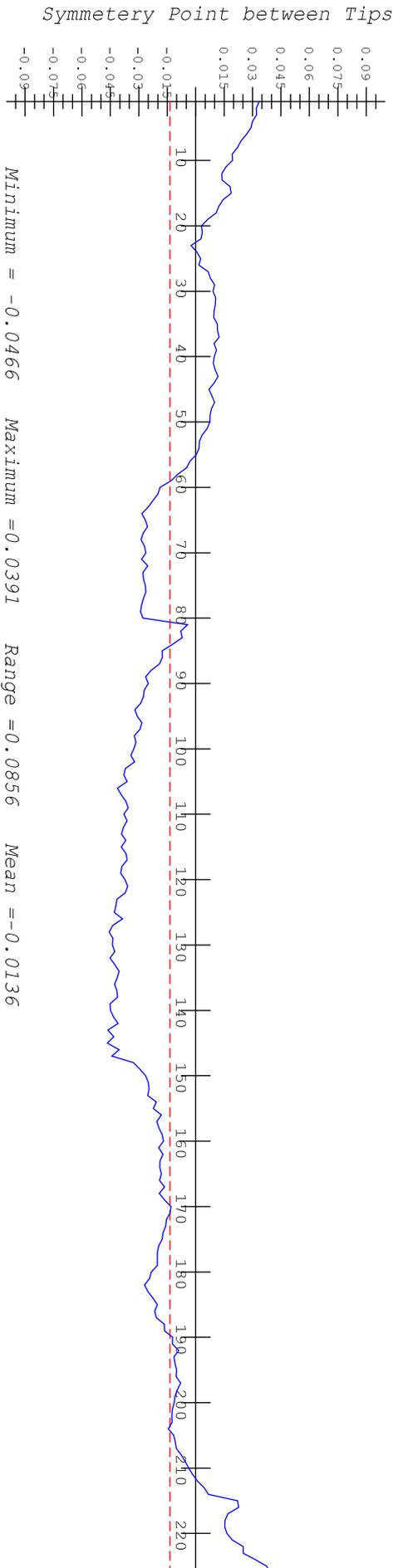
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 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 03-APR-2008
 UNDULATOR # 28
 DATASET # 0001
 PROGRAM VERSION 2.6



Pole Tip Number ----->

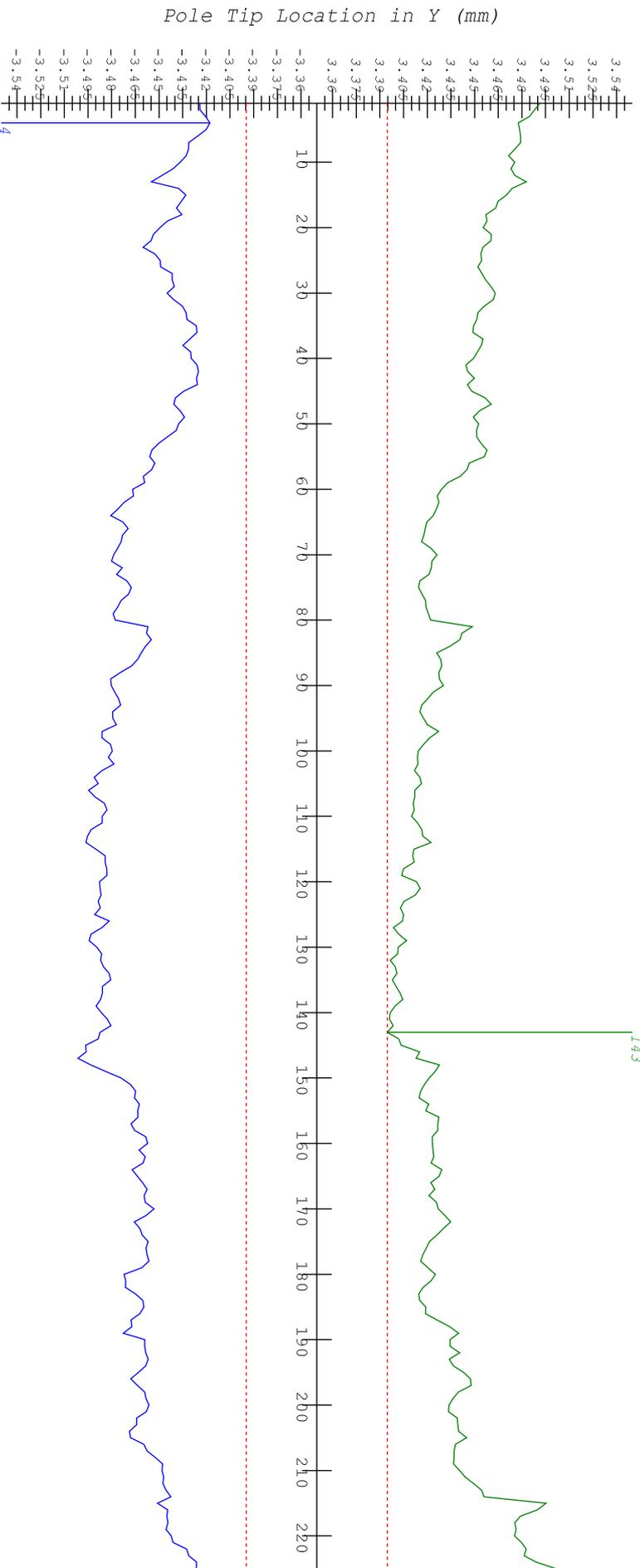


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L

 SLAC LCLS-MMF LEITZ CMM	Undulator Pole Tip Location Post Magnetic Alignment	DATE: 03-APR-2008 UNDUULATOR # 28 DATASET # 0001 PROGRAM VERSION 2.6
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Maximum Chamber Gap = 6.7894

Minimum = 3.3947 Maximum = 3.5015 Range = 0.1069



Minimum = -3.5014 Maximum = -3.4177 Range = 0.0837

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: 03-APR-2008
UNDULATOR # 28
DATASET # 0001
PROGRAM VERSION 2.6



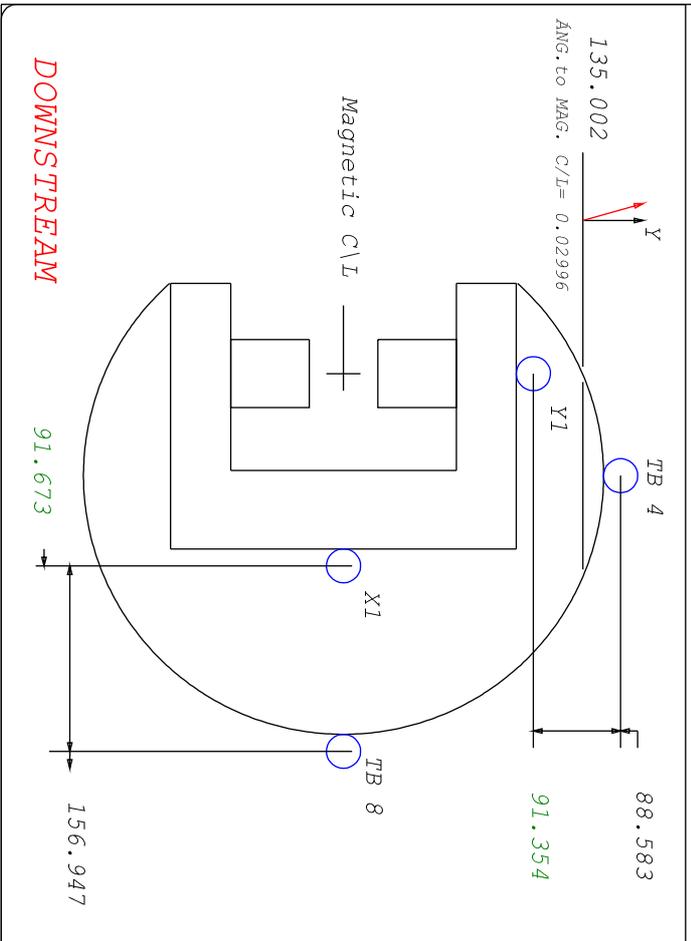
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2342	179.8336	-1558.392
2	0.3402	179.7317	-584.7086
3	0.4858	179.7196	591.2994
4	0.4187	179.9371	1562.1622
5	248.5053	0.0925	1558.301
6	248.5762	0.0857	-584.7047
7	248.6235	-0.0286	591.4429
8	248.6198	-0.0107	1562.2662

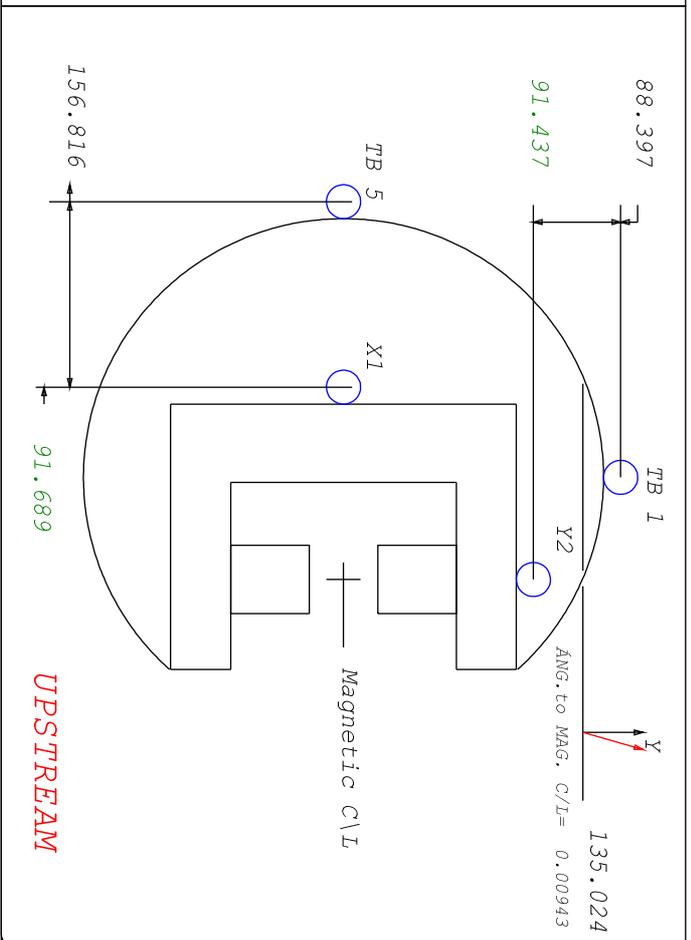
	C/L Offset	Length
Top Magnetic Structure	0.007	3380.918
Bottom Magnetic Structure	-0.007	3380.959
Strongback	0.337	3400.014

Dimensions in mm

Angles in mrad



DOWNSTREAM

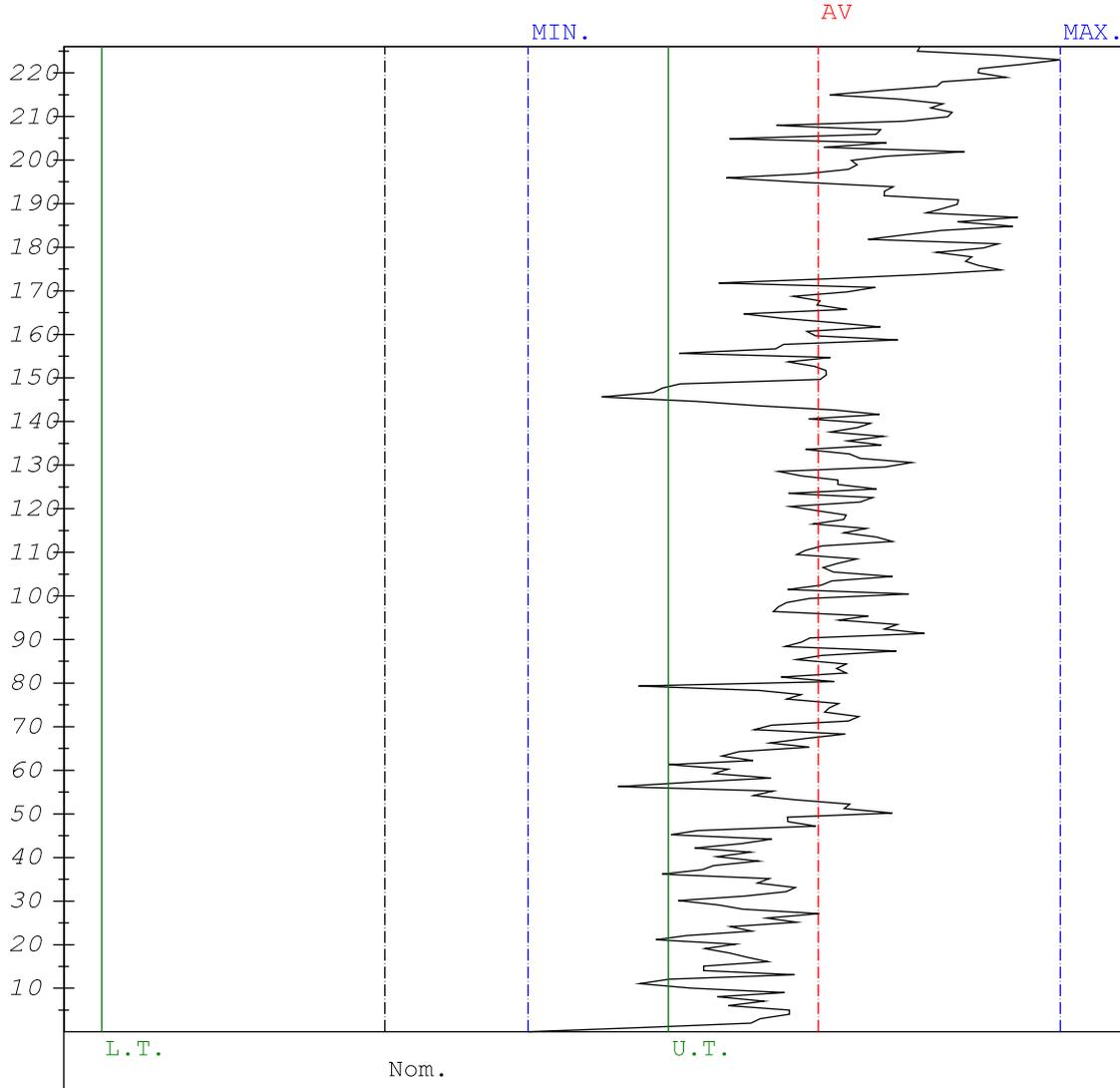
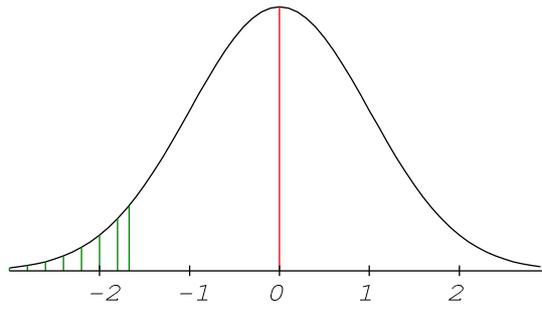


UPSTREAM

SLAC
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LEITZ CMM

Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 03-APR-2008
UNDULATOR # 28
DATASET # 0001
PROGRAM VERSION 2.6



Nominal : 4.5000	Averag : 5.265	Cent.-Dev. : 0.765
Up. Tol. : 0.5	Maximum : 5.6920	U.Tol.Ex. > : 95.3 %
Low.Tol. : -0.5	Minimum : 4.7530	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1584	In Tolerance: 4.7 %
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: 03-APR-2008 UNDULATOR # 28 DATASET # 0001 PROGRAM VERSION 2.6</p>
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