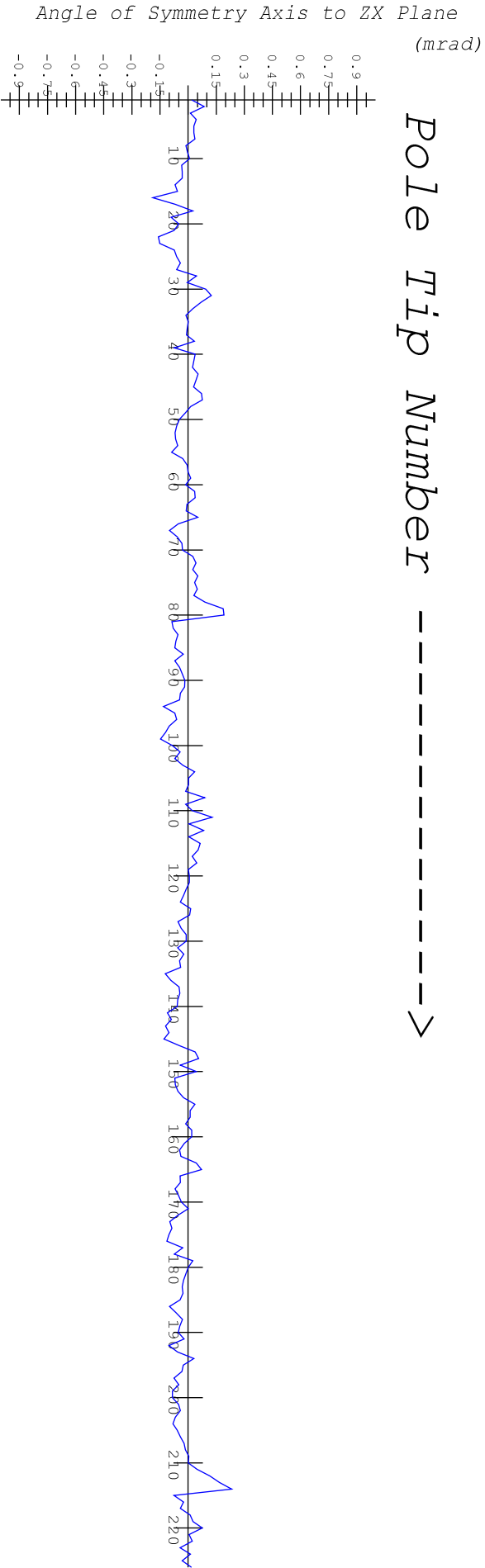
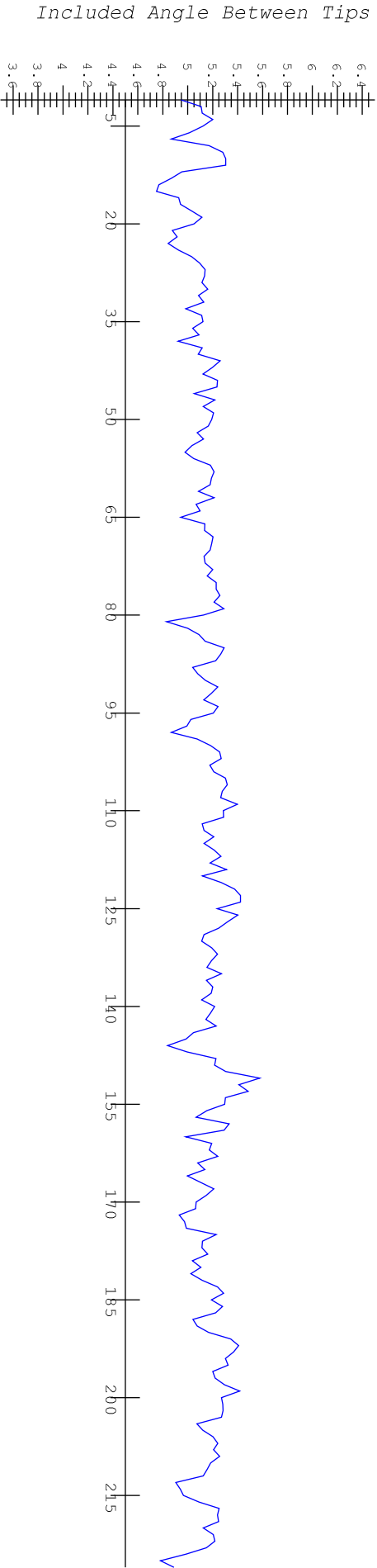




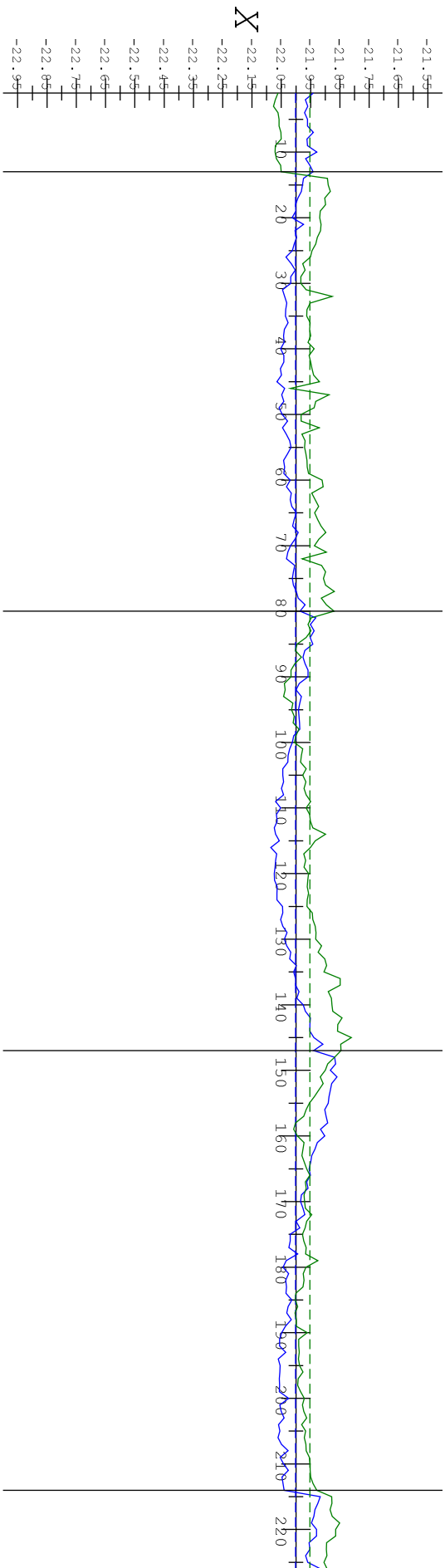
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

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LEITZ CMM

Undulator Pole Tip Angles
Post Magnetic Alignment

DATE: 21-FEB-2008
UNDULATOR # 22
DATASET # 0001
PROGRAM VERSION 2.6

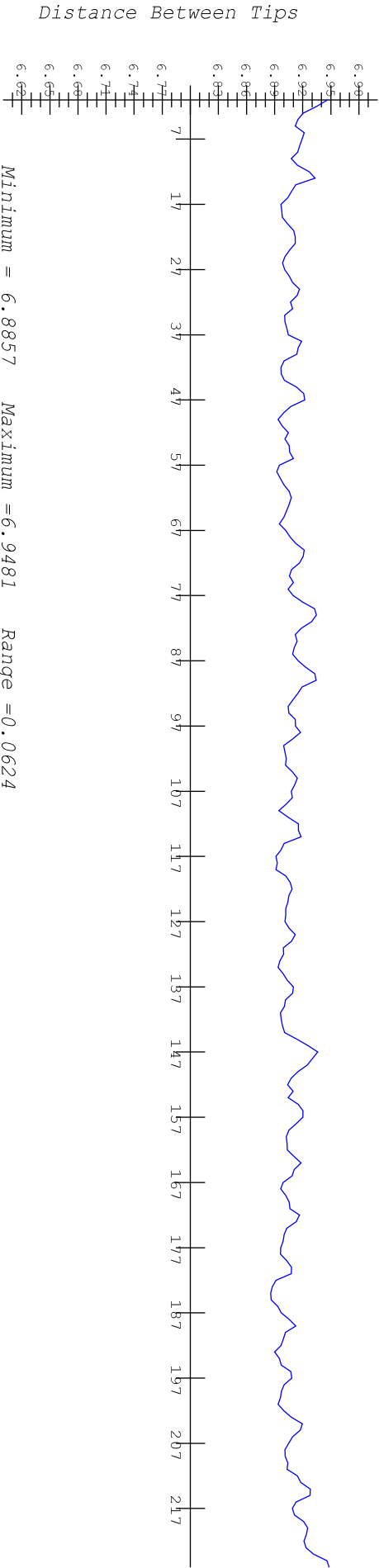
Pole Tip Number ----->



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LEITZ CMM

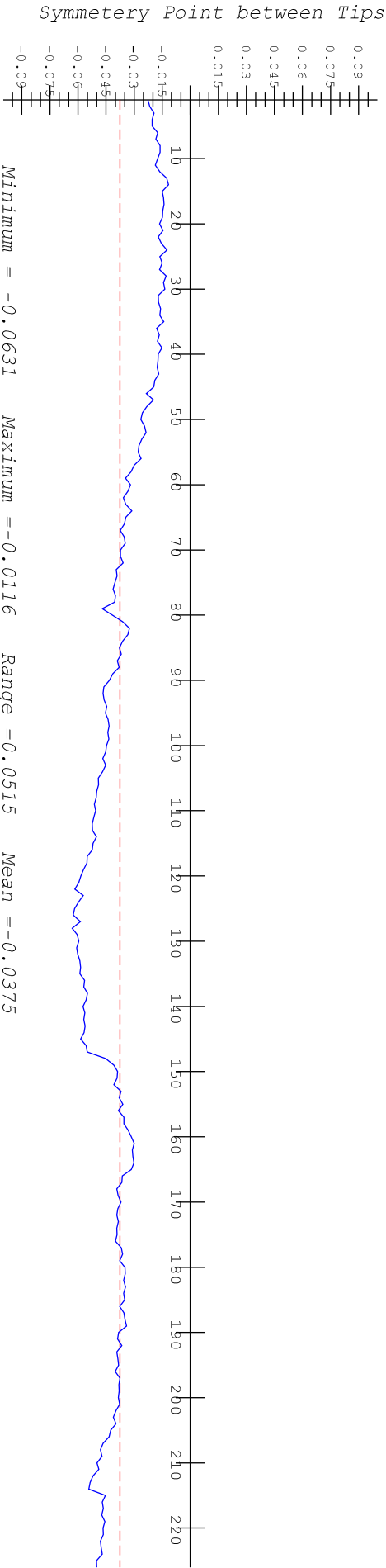
Undulator Pole Tip Location
Post Magnetic Alignment

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UNDULATOR # 22
DATASET # 0001
PROGRAM VERSION 2.6



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

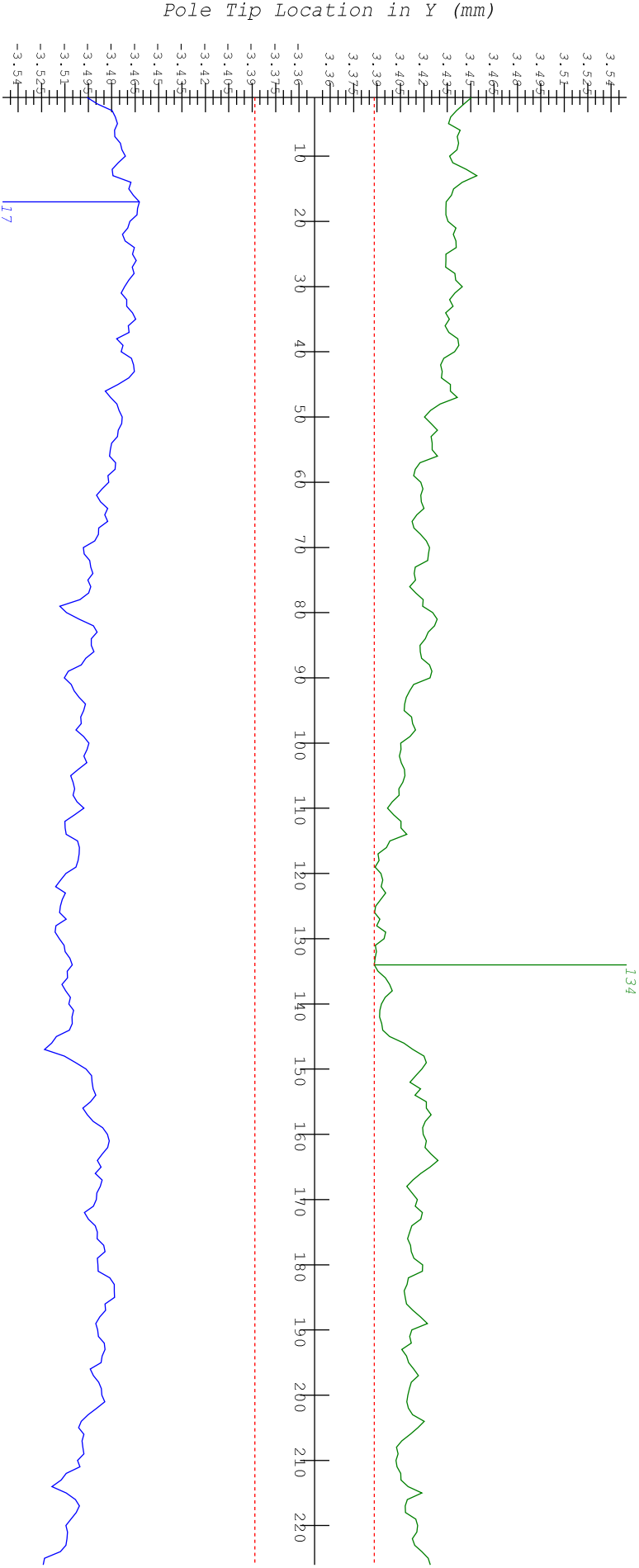
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Undulator Pole Tip Location
Post Magnetic Alignment

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DATASET # 0001
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Maximum Chamber Gap = 6.7765

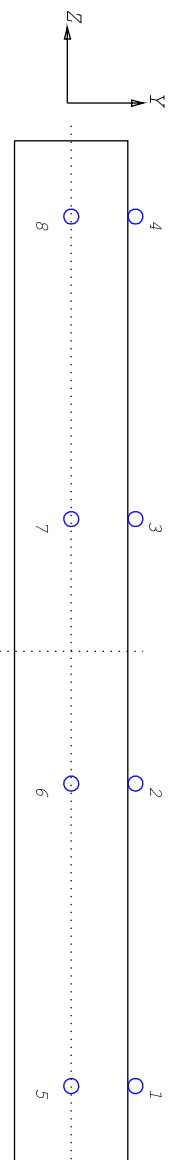
Minimum = 3.3883 Maximum = 3.4539 Range = 0.0657



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)

SLAC LCLS-MMF LEITZ CMM	Undulator Pole Tip Location Post Magnetic Alignment	DATE: 21-FEB-2008 UNDULATOR # 22 DATASET # 0001 PROGRAM VERSION 2.6
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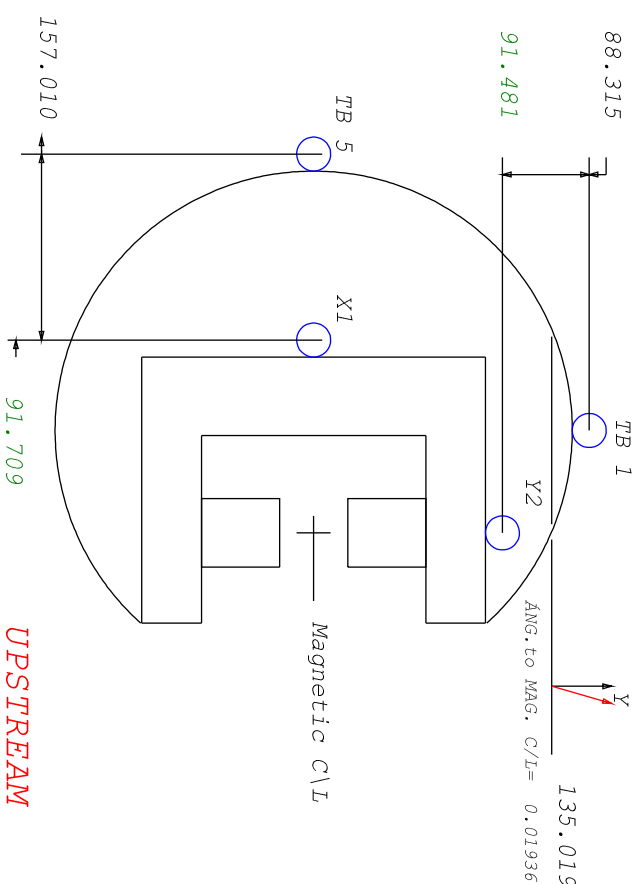
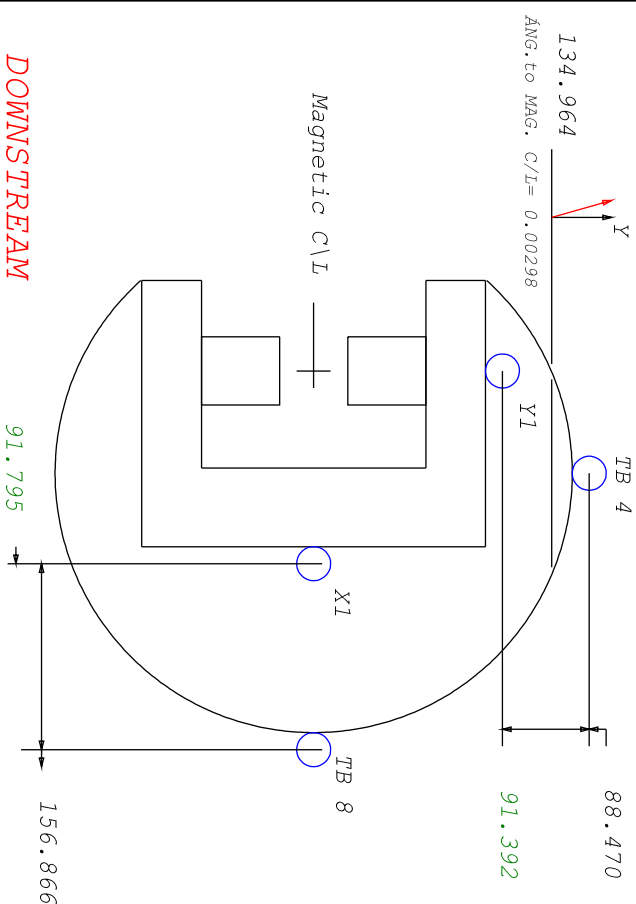


TOOLING BALL LOCATIONS			
NUM.	X	Y	Z
1	0.2823	179.7958	-1558.277
2	0.3195	179.7297	-584.6792
3	0.4465	179.7557	591.3034
4	0.4152	179.8622	1562.1207
5	248.7188	-0.0131	-1558.316
6	248.7249	-0.0314	-584.7231
7	248.7867	-0.0479	591.2938
8	248.6607	-0.0494	1562.1346

Top Magnetic Structure	C/L Offset	Length
	0.041	3380.990
Bottom Magnetic Structure	-0.041	3380.936
Strongback	0.271	3400.005

Dimensions in mm

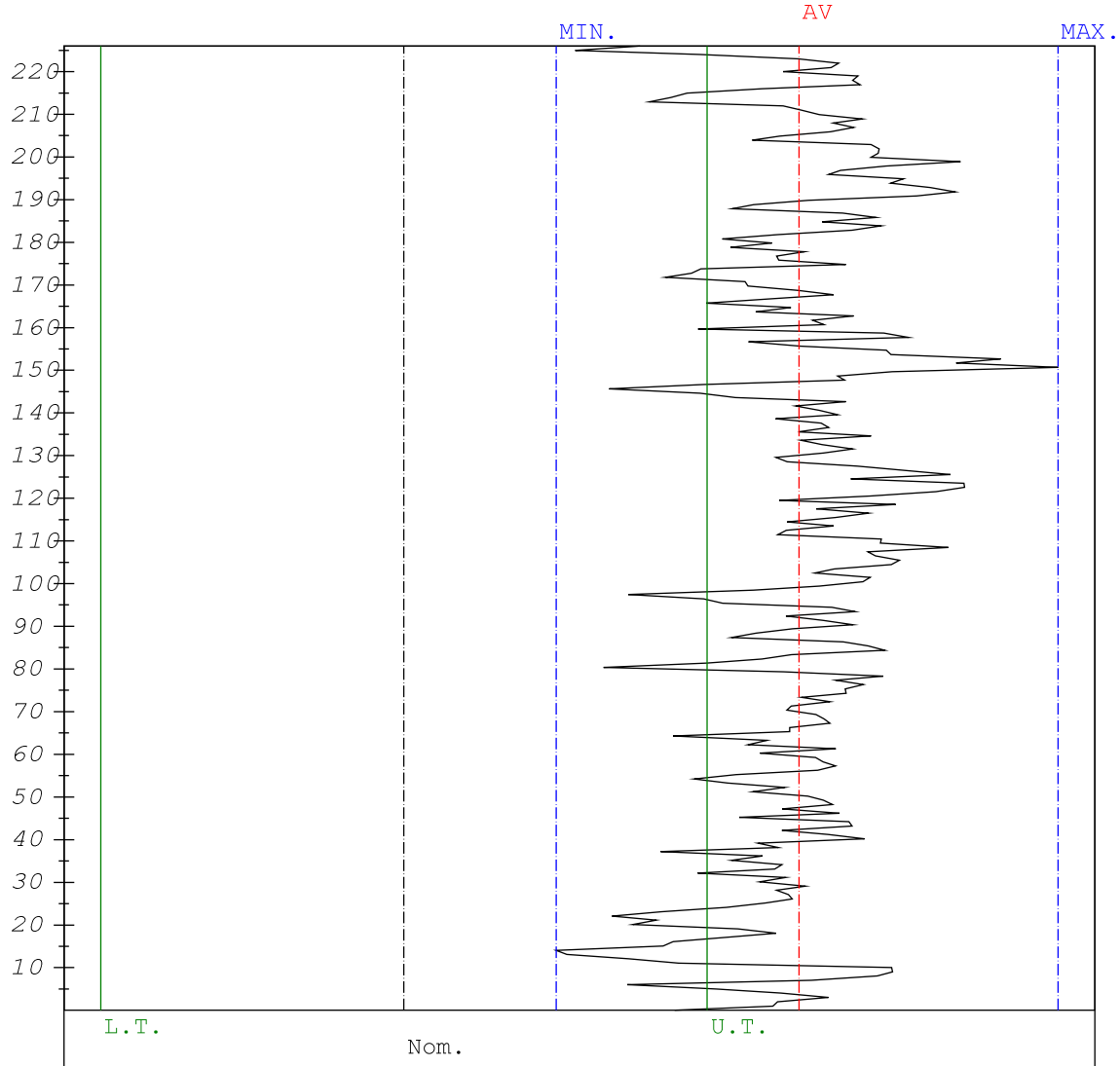
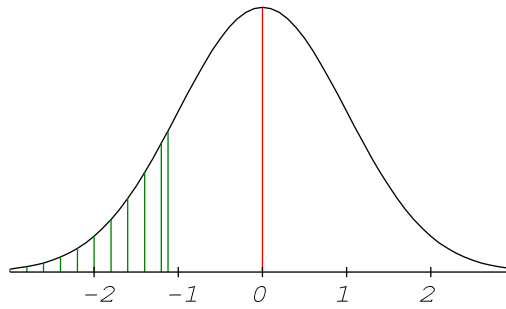
Angles in mrad



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LEITZ CMM

Undulator Dimensional Fiducialization
Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.1515	Cent.-Dev. : 0.6515
Up. Tol. : 0.5	Maximum : 5.5784	U.Tol.Ex. > : 86.9 %
Low.Tol. : -0.5	Minimum : 4.7510	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1352	In Tolerance: 13.1 %
Outlier : 0	Distribution : NOR	Dimension : mrad

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LEITZ CMM

Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE: 21-FEB-2008

UNDULATOR # 22
DATASET # 0001
PROGRAM VERSION 2.6