

Pole Tip Number ----->

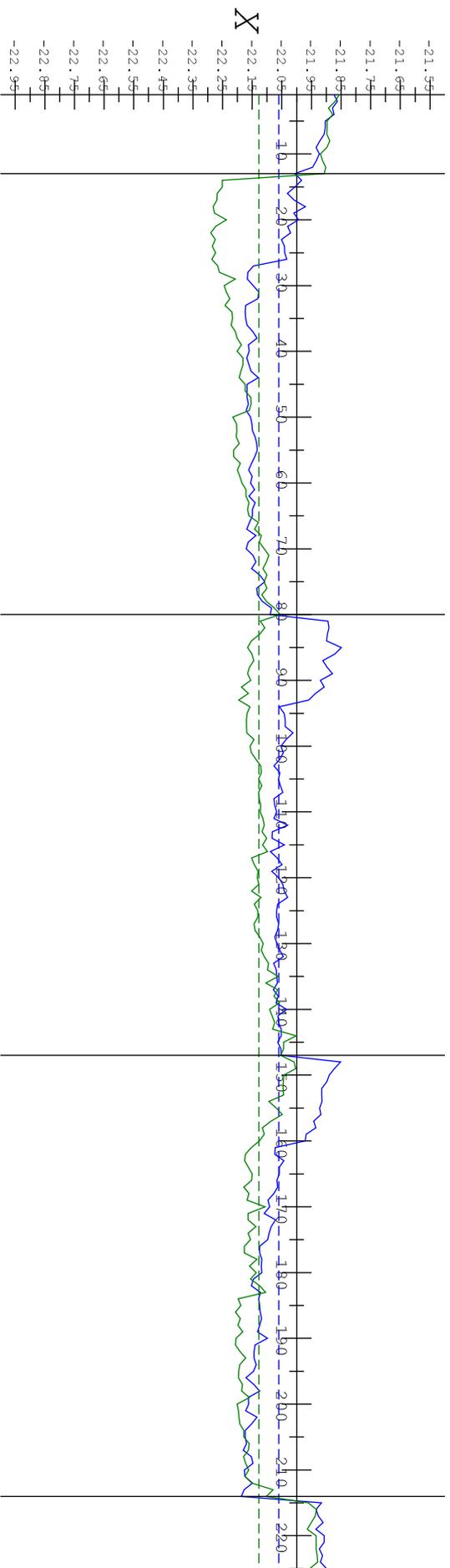
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 05-FEB-2008
 UNDUULATOR # 10
 DATASET # 0001
 PROGRAM VERSION 2.5

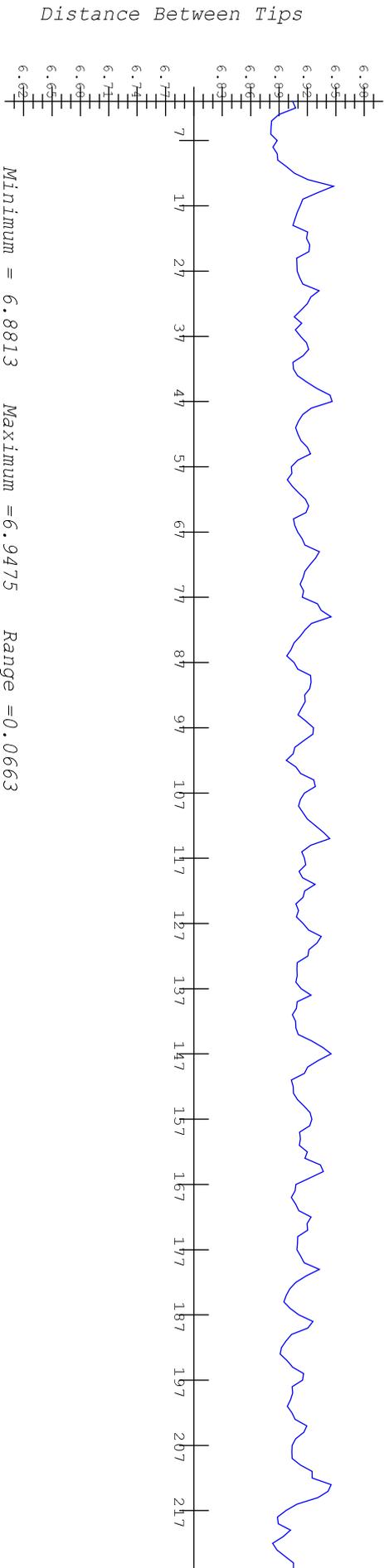
Pole Tip Number ----->



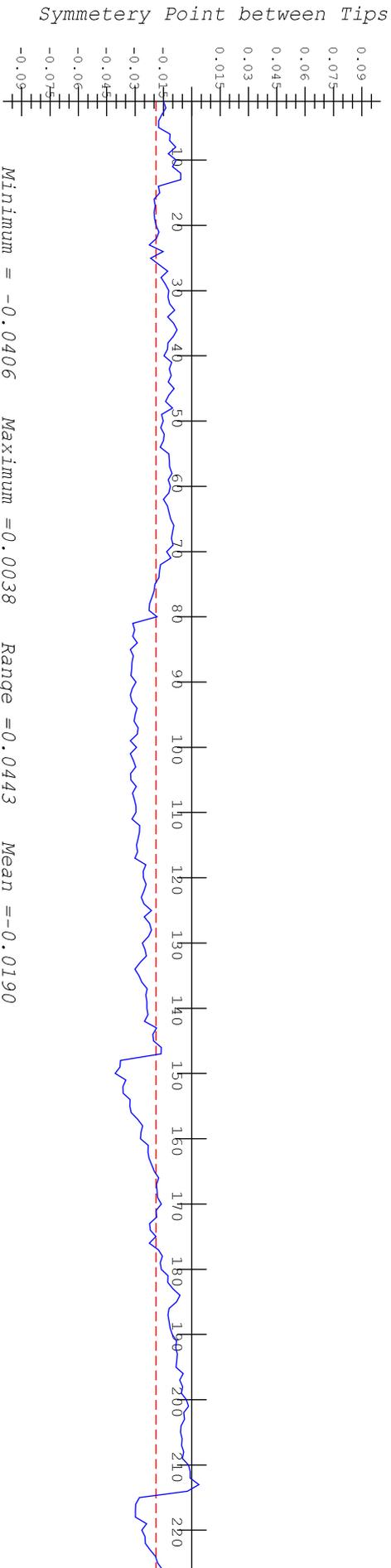
SLAC
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 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 05-FEB-2008
 UNDULATOR # 10
 DATASET # 0001
 PROGRAM VERSION 2.5



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

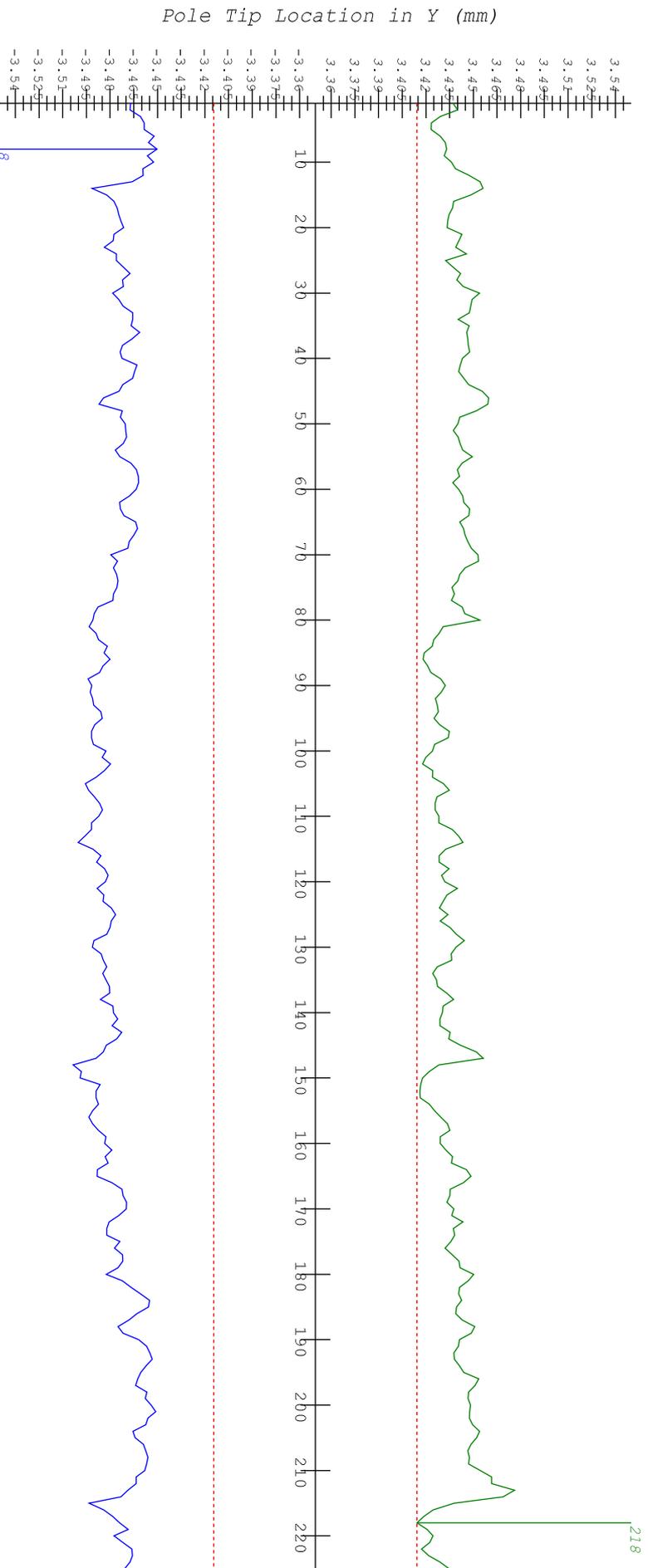
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Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8288

Minimum = 3.4144 Maximum = 3.4762 Range = 0.0618



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: 05-FEB-2008
UNDULATOR # 10
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PROGRAM VERSION 2.5



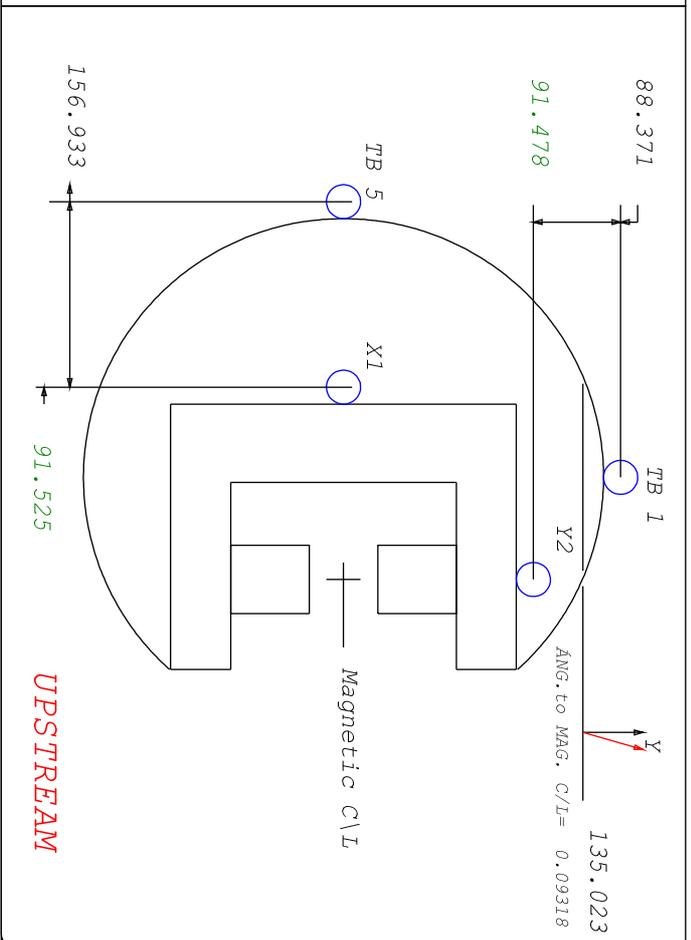
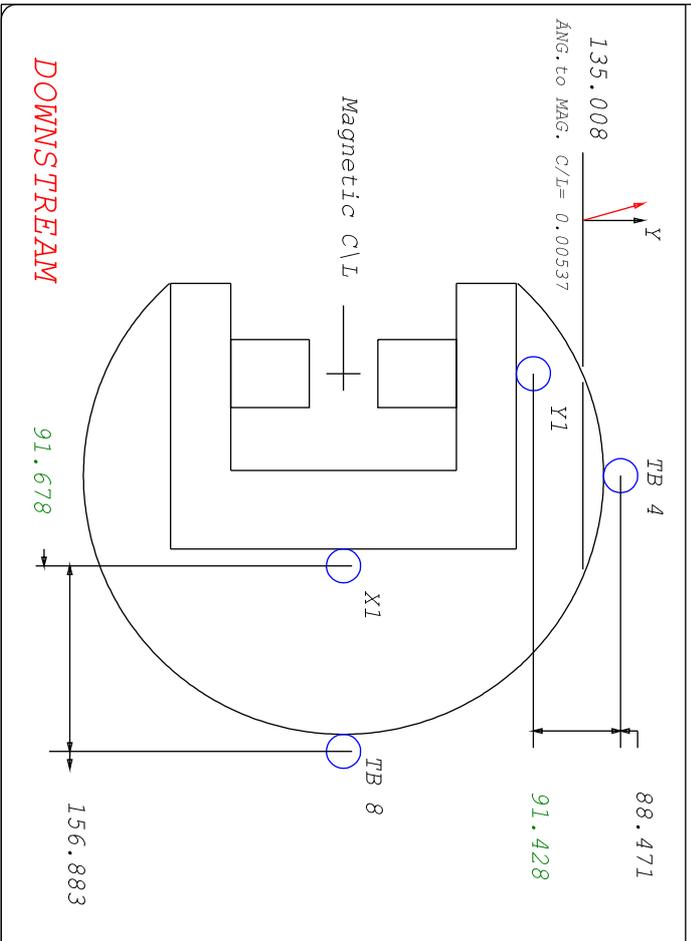
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1513	179.8492	-1558.269
2	0.2381	179.7883	-584.7563
3	0.3628	179.7941	591.3463
4	0.3425	179.8994	1562.1520
5	248.4581	0.0270	-1558.283
6	248.5745	0.0807	-584.7065
7	248.5309	0.0266	591.4075
8	248.5613	0.0244	1562.1816

	C/L Offset	Length
Top Magnetic Structure	0.038	3381.162
Bottom Magnetic Structure	-0.038	3381.051
Strongback	0.356	3399.981

Dimensions in mm

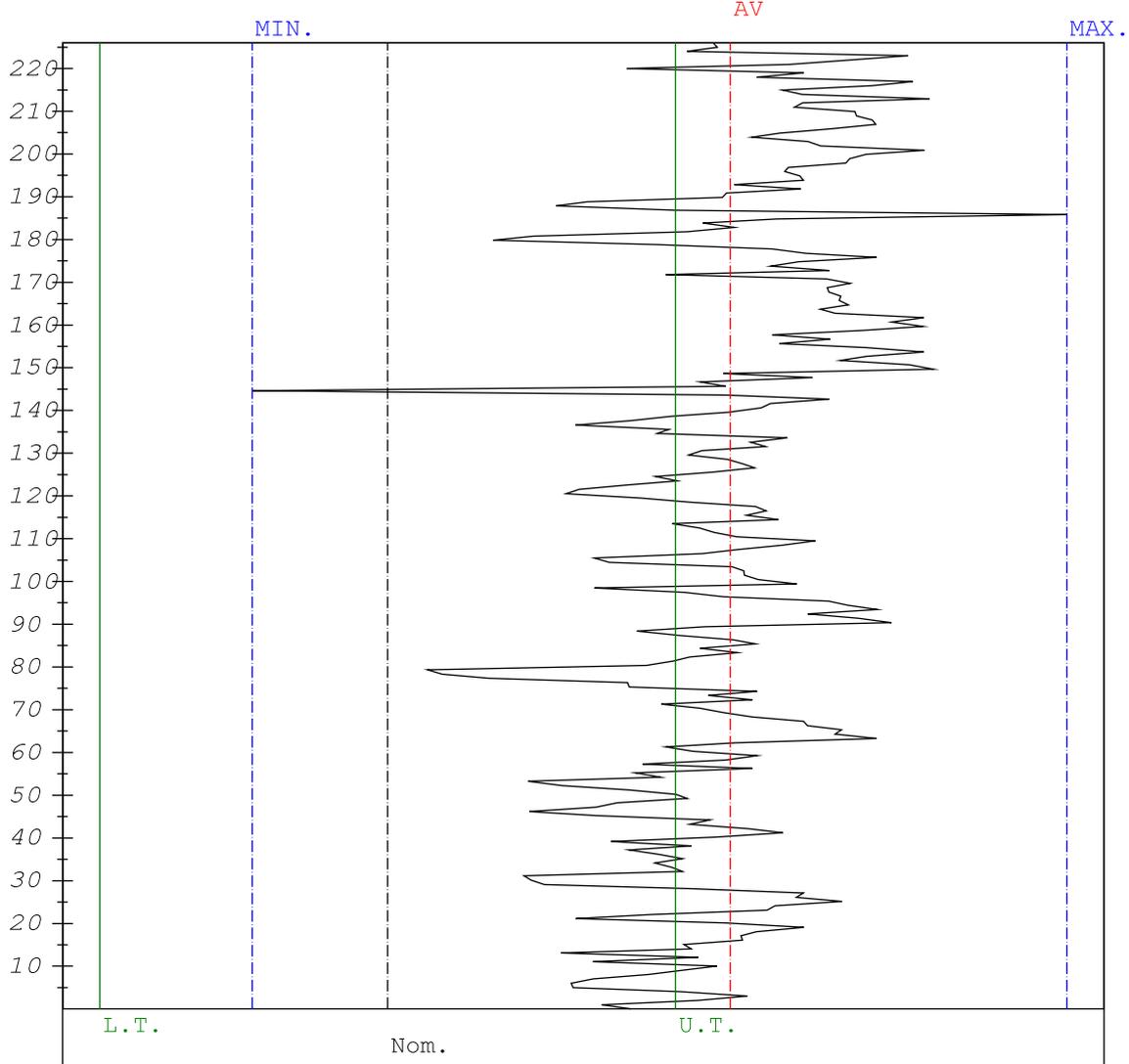
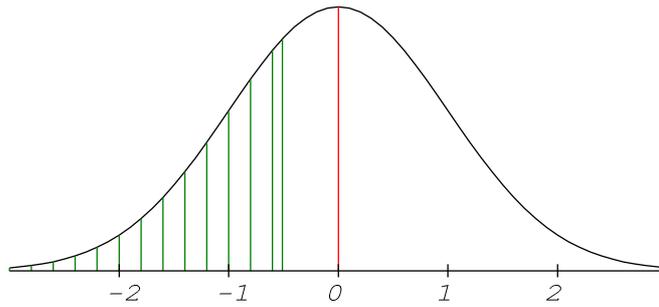
Angles in mrad



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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 05-FEB-2008
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DATASET # 0001
PROGRAM VERSION 2.5



Nominal : 4.5000	Averag : 5.0952	Cent.-Dev. : 0.5952
Up. Tol. : 0.5	Maximum : 5.6800	U.Tol.Ex. > : 69.5 %
Low.Tol. : -0.5	Minimum : 4.2651	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1863	In Tolerance: 30.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad

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Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE: 05-FEB-2008

UNDULATOR # 10
DATASET # 0001
PROGRAM VERSION 2.5