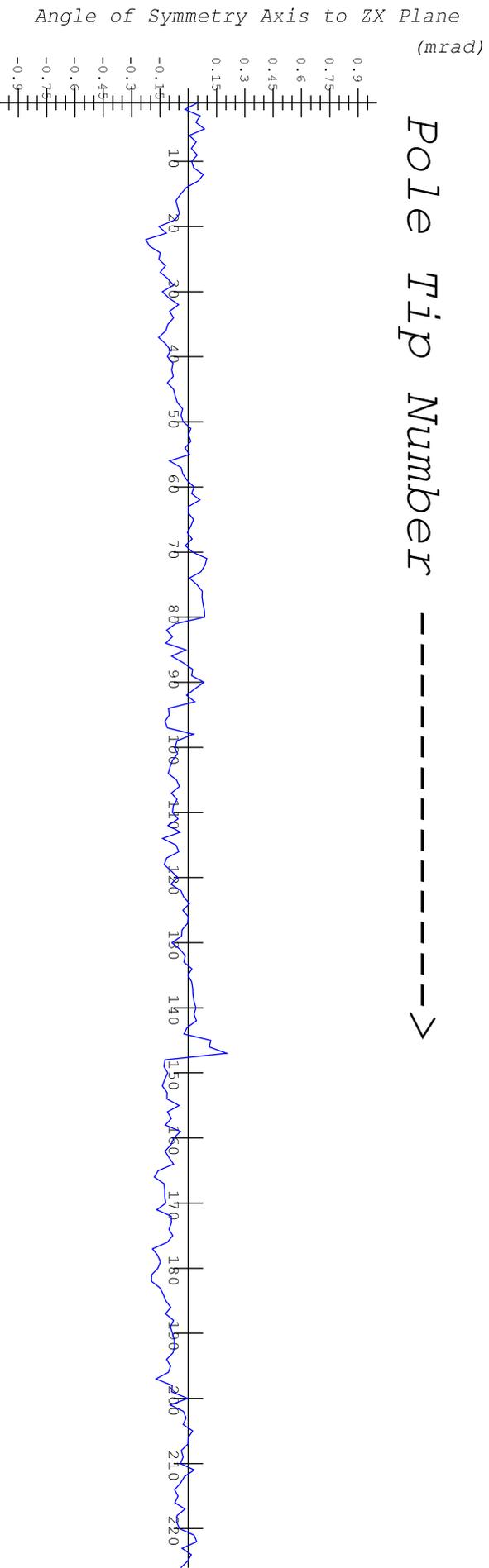


Pole Tip Number ----->



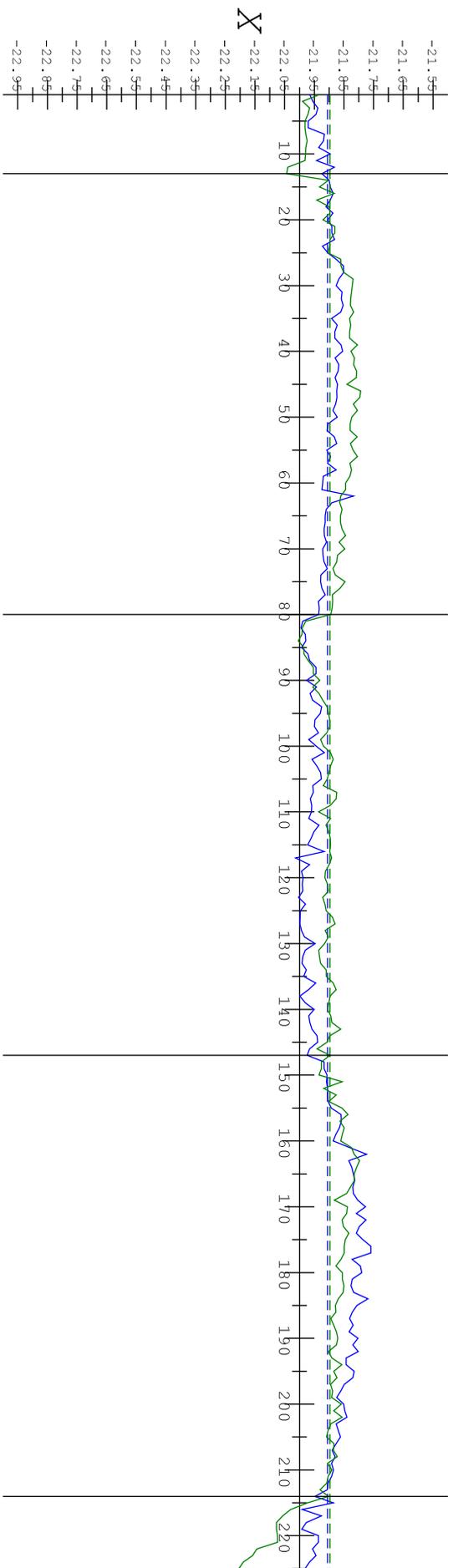
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 03-MAR-2008
 UNDULATOR # 13
 DATASET # 0007
 PROGRAM VERSION 2.6

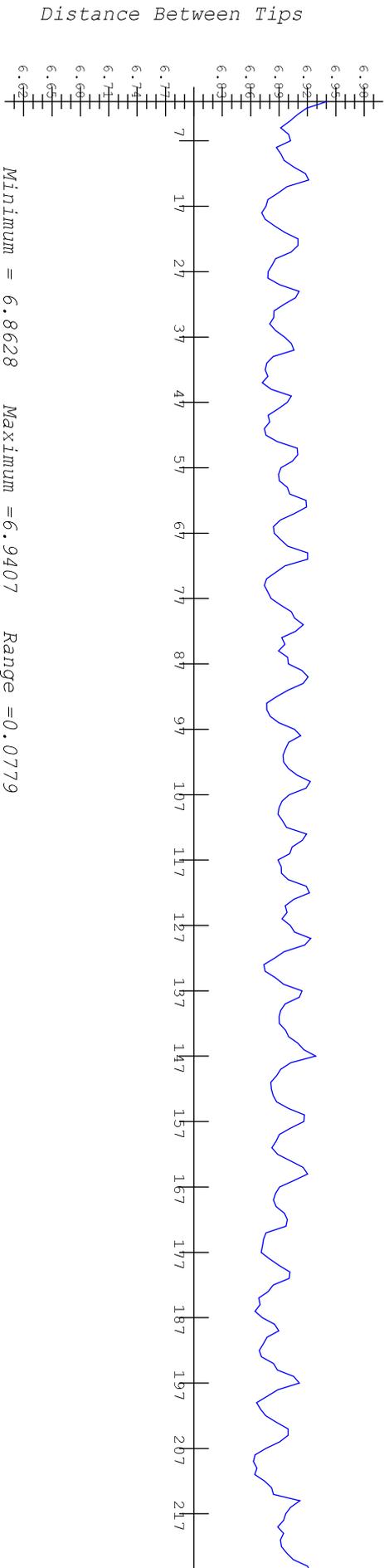
Pole Tip Number ----->



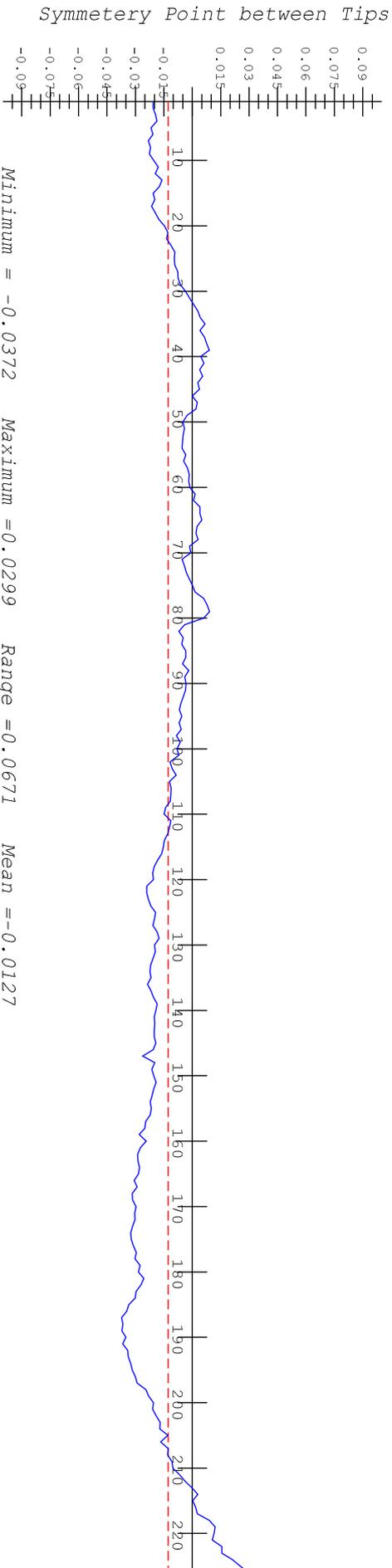
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Undulator Pole Tip Location
 Post Magnetic Alignment

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 UNDULATOR # 13
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 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

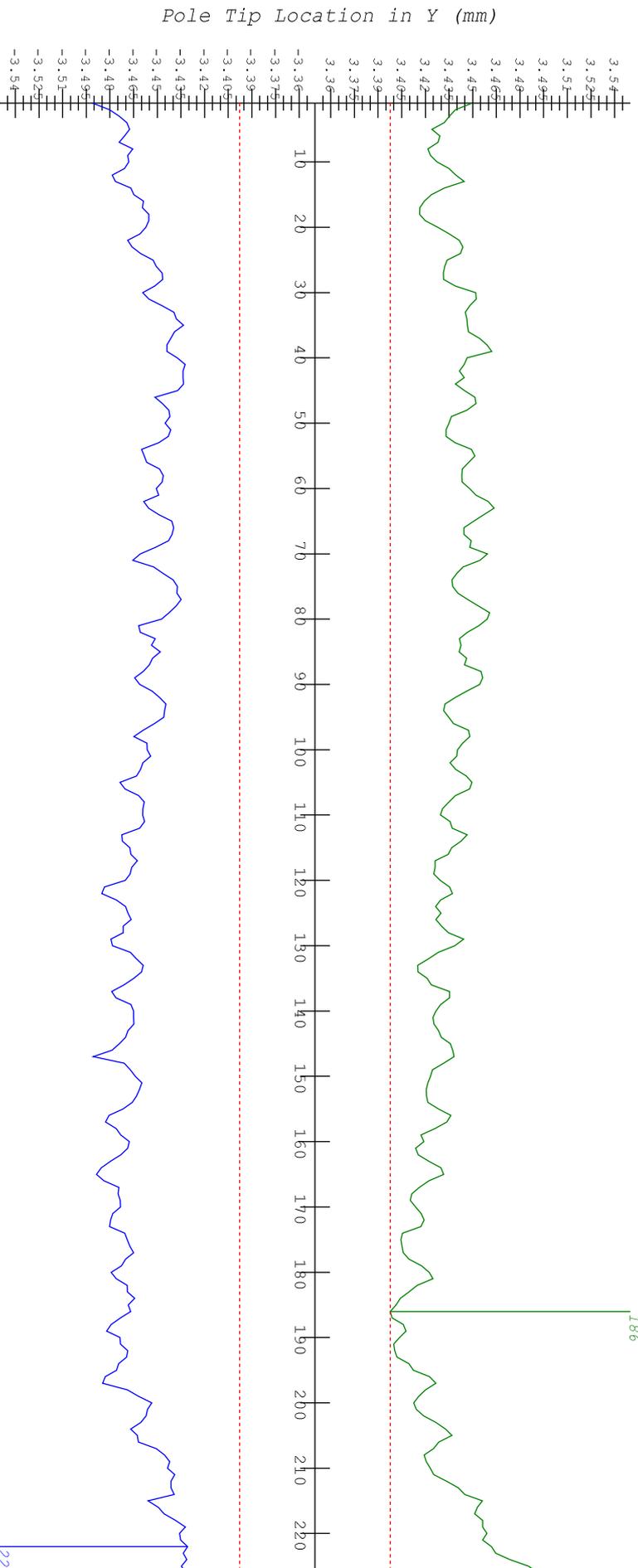
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Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.7955

Minimum = 3.3977 Maximum = 3.4916 Range = 0.0939



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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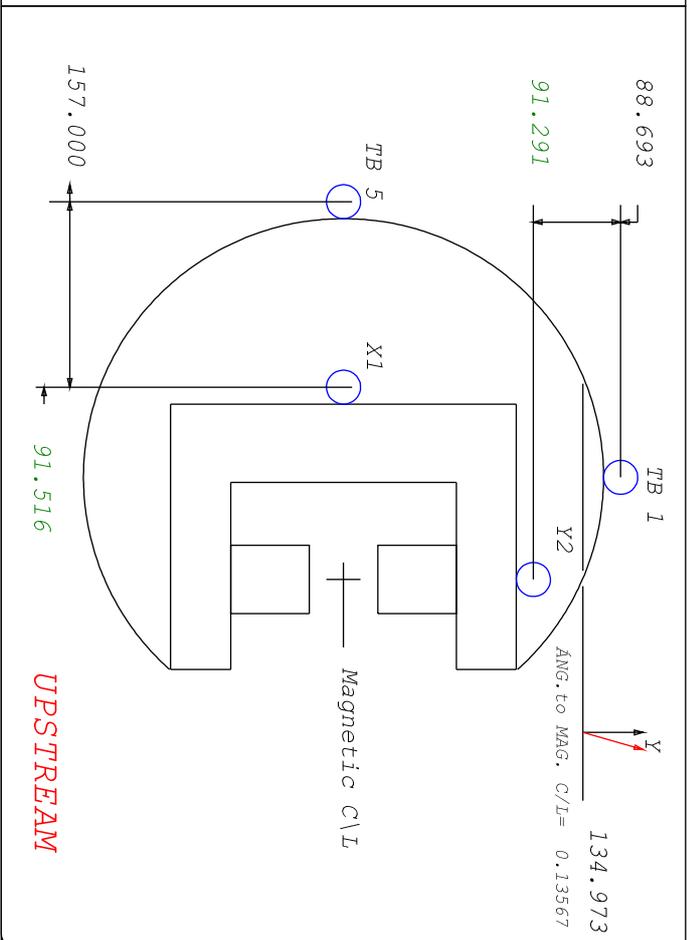
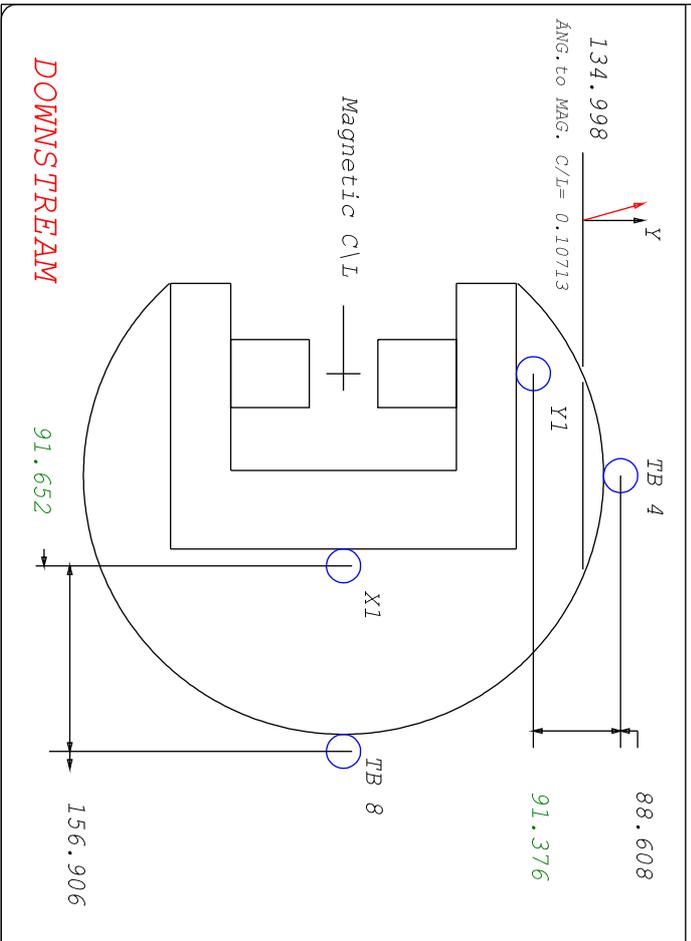
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1917	179.9839	-1558.288
2	0.3359	180.0052	-584.4564
3	0.2337	179.8911	591.3093
4	0.2032	179.9835	1562.0830
5	248.5155	0.0641	-1558.327
6	248.4760	-0.0355	-584.6036
7	248.5004	0.0309	591.3274
8	248.5584	-0.0786	1562.0857

Top Magnetic Structure C/L Offset Length 3381.073
 Bottom Magnetic Structure 0.096 3381.297
 Strongback 0.253 3399.794

Dimensions in mm

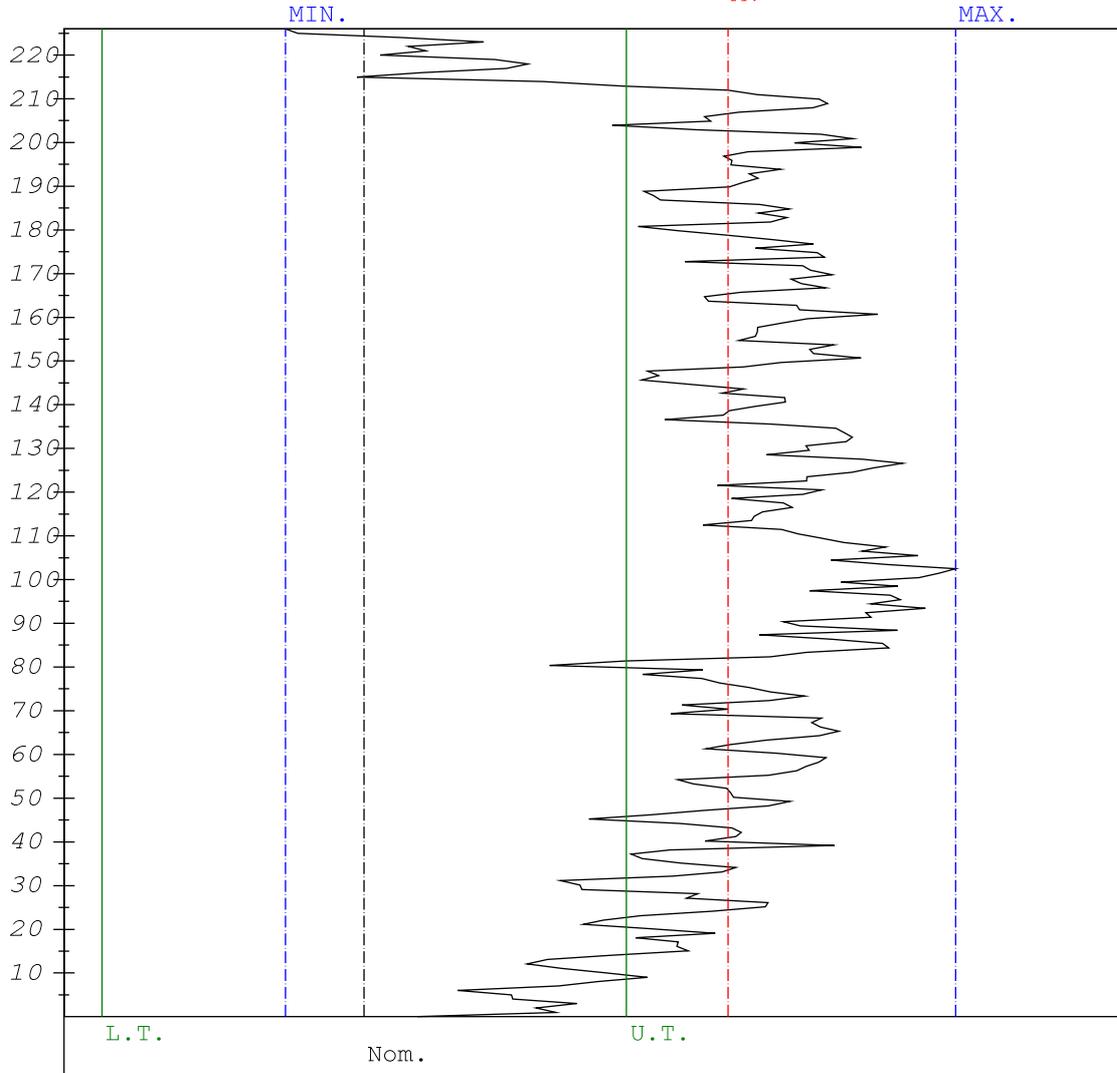
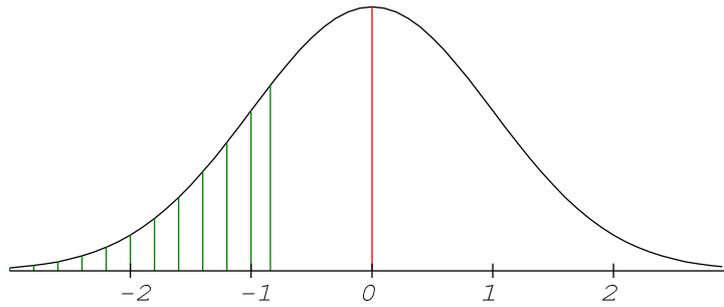
Angles in mrad



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Undulator Dimensional Fiducialization
 Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.1935	Cent.-Dev. : 0.6935
Up. Tol. : 0.5	Maximum : 5.6276	U.Tol.Ex. > : 79.9 %
Low.Tol. : -0.5	Minimum : 4.3502	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2303	In Tolerance: 20.1 %
Outlier : 0	Distribution : NOR	Dimension : mrad

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 LEITZ CMM

Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

DATE:03-MAR-2008
 UNDULATOR # 13
 DATASET # 0007
 PROGRAM VERSION 2.6