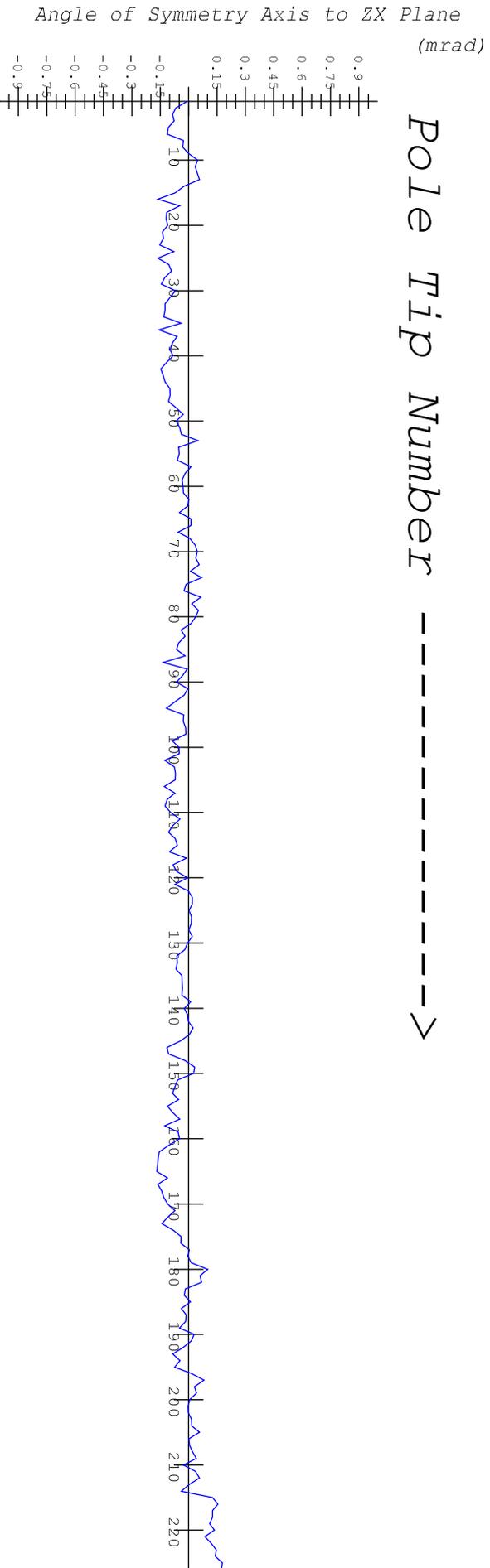


Pole Tip Number ----->



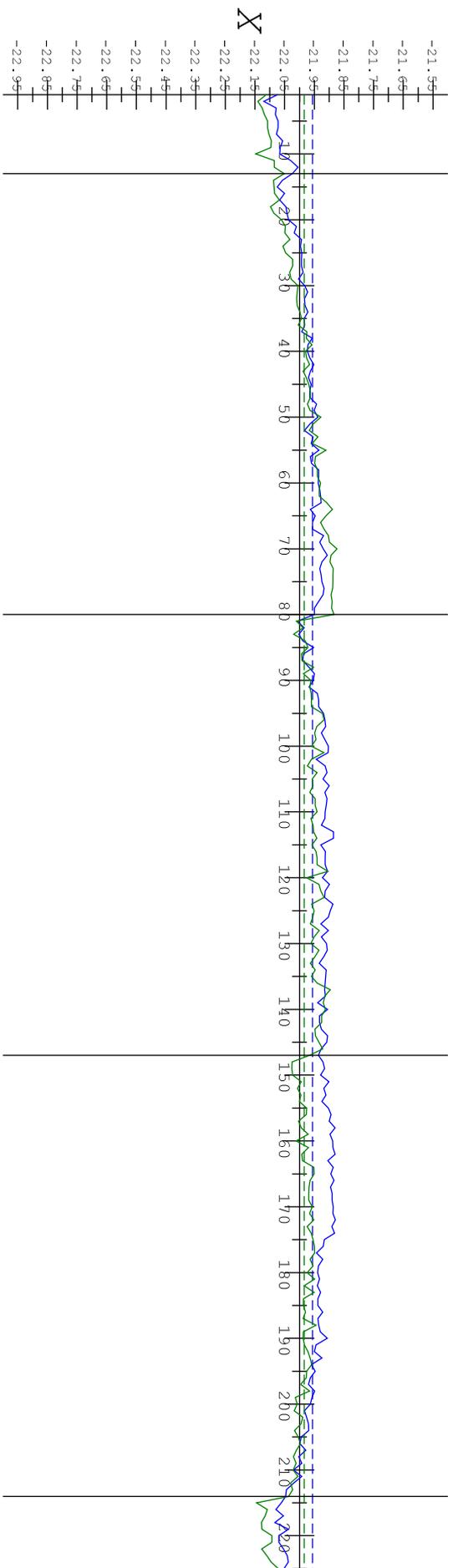
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

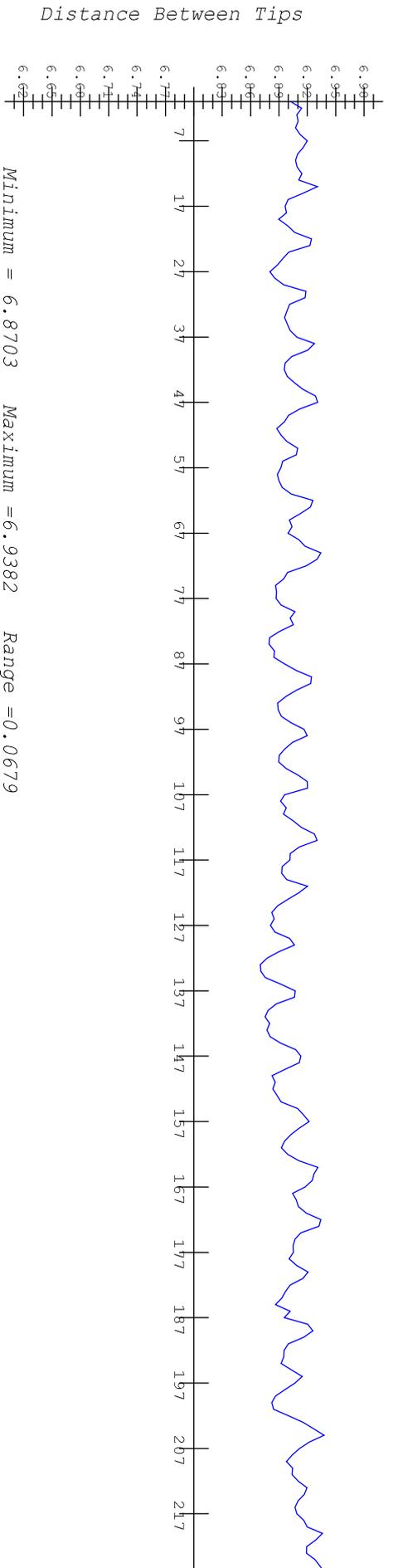
DATE: 26-MAY-2009
 UNDULATOR # 34
 DATASET # 0002
 PROGRAM VERSION 2.9

Pole Tip Number ----->



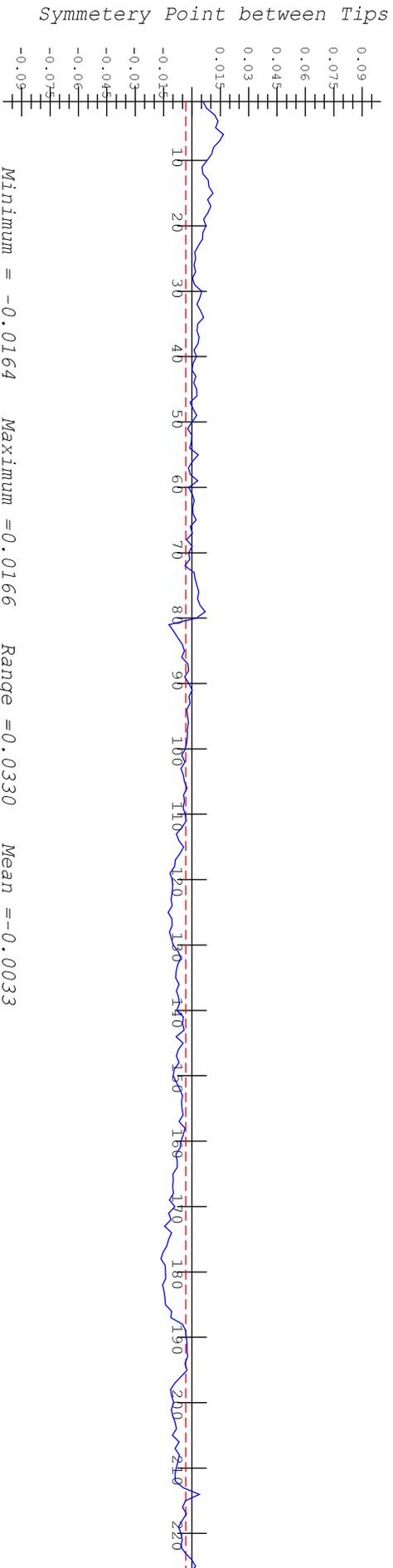
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 26-MAY-2009
 UNDUULATOR # 34
 DATASET # 0002
 PROGRAM VERSION 2.9



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

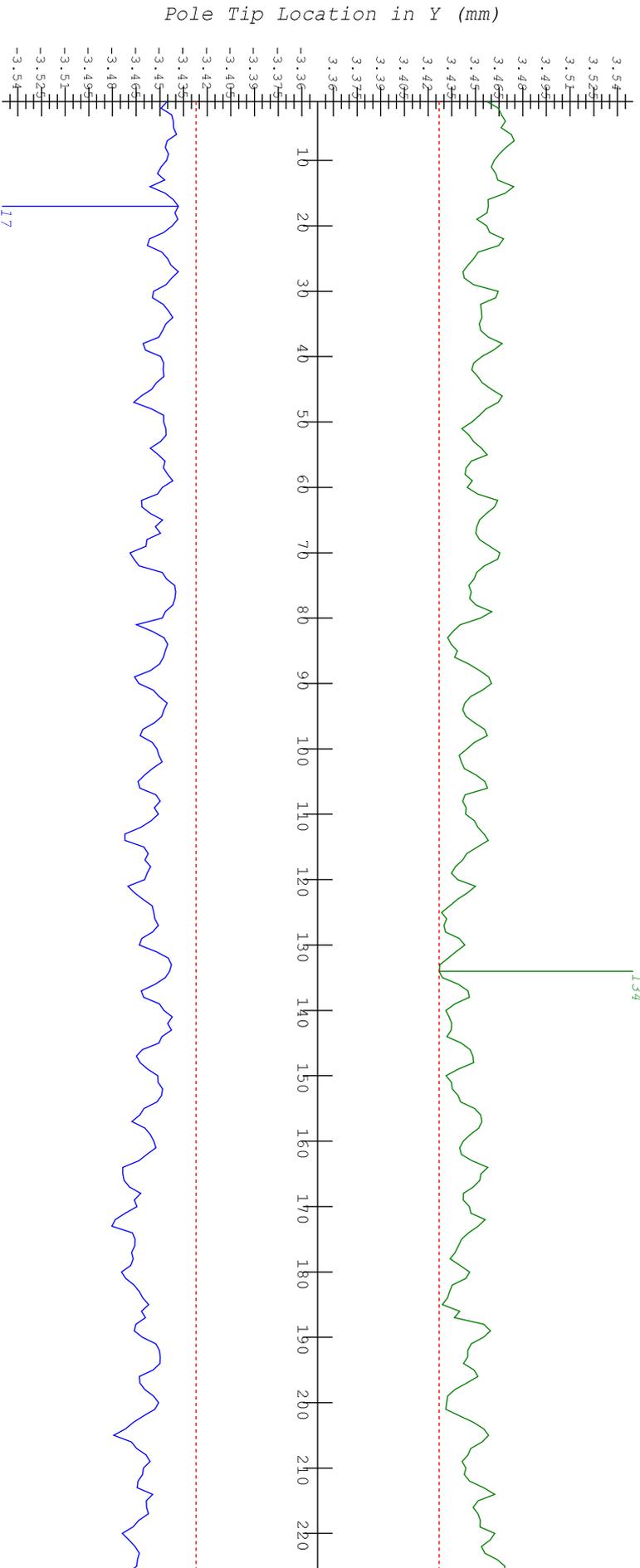


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 26-MAY-2009
 UNDUULATOR # 34
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Maximum Chamber Gap = 6.8542

Minimum = 3.4271 Maximum = 3.4745 Range = 0.0474



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)



Undulator Pole Tip Location
Post Magnetic Alignment

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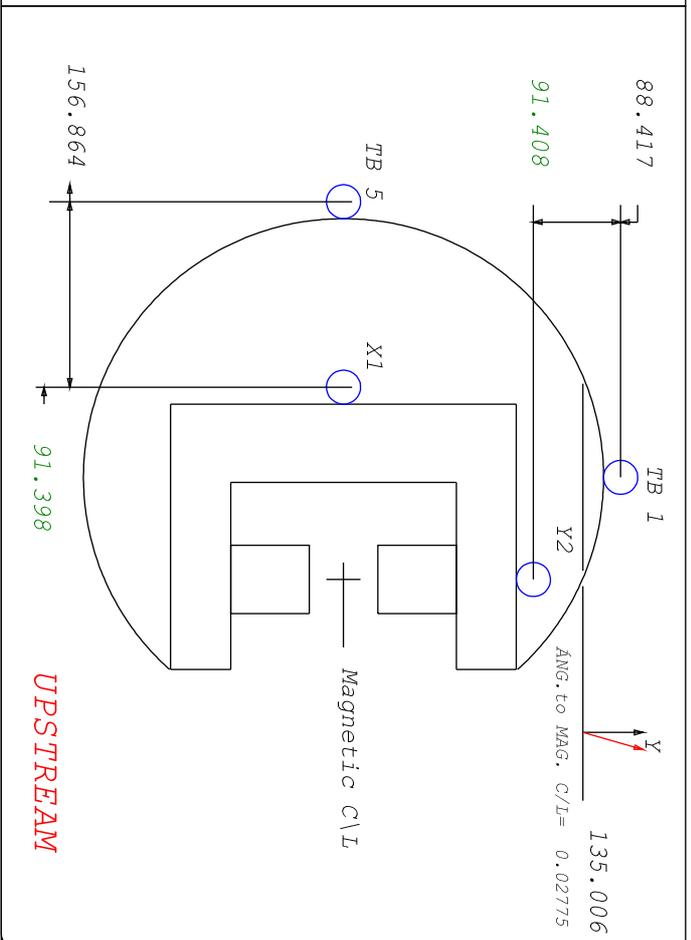
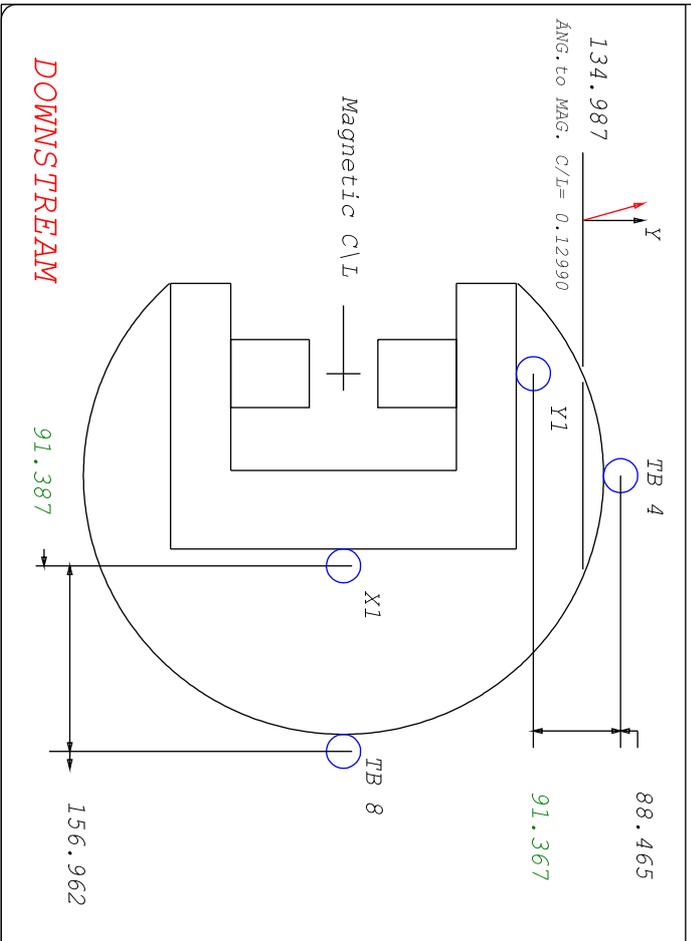
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0825	179.8247	-1558.060
2	0.0291	179.7729	-584.3977
3	0.1091	179.7495	591.5490
4	0.0545	179.8323	1562.4682
5	248.2621	0.0836	-1558.083
6	248.3479	0.1295	-584.4175
7	248.3740	0.1223	591.6495
8	248.3489	0.0060	1562.5249

	C/L Offset	Length
Top Magnetic Structure	-0.022	3380.728
Bottom Magnetic Structure	0.022	3380.733
Strongback	0.617	3400.027

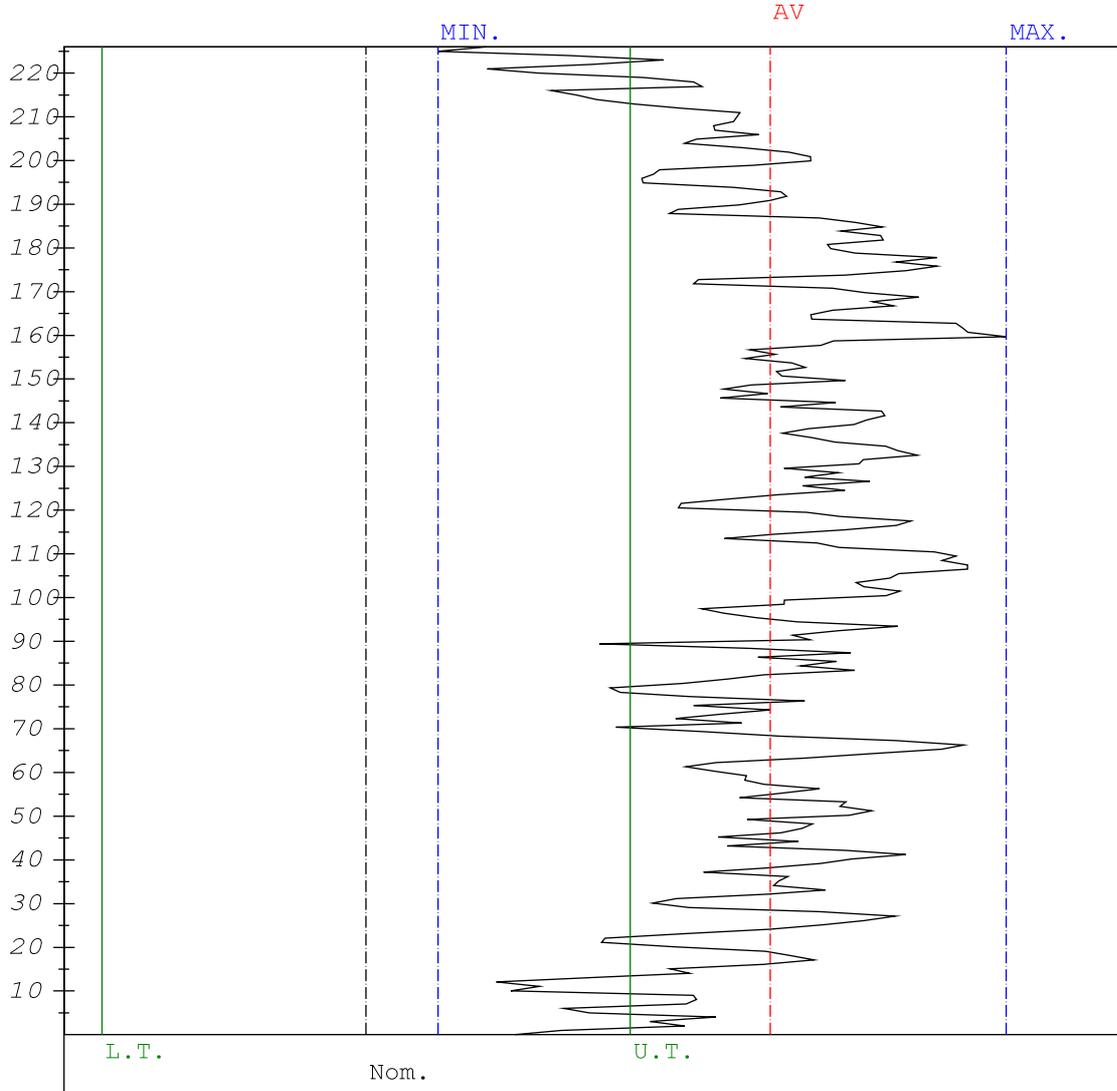
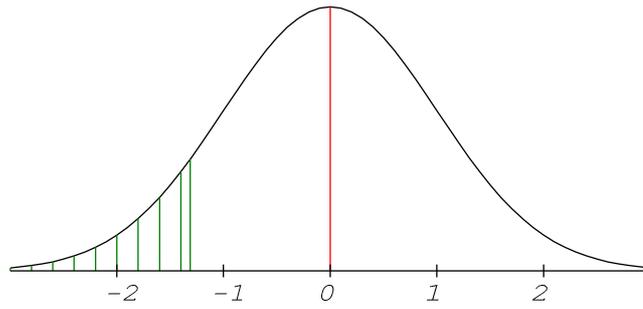
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization
Post Magnetic Alignment

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DATASET # 0002
PROGRAM VERSION 2.9



Nominal : 4.5000	Averag : 5.265	Cent.-Dev. : 0.765
Up. Tol. : 0.5	Maximum : 5.7118	U.Tol.Ex. > : 90.5 %
Low.Tol. : -0.5	Minimum : 4.6362	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2020	In Tolerance: 9.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

DATE: 26-MAY-2009
 UNDULATOR # 34
 DATASET # 0002
 PROGRAM VERSION 2.9