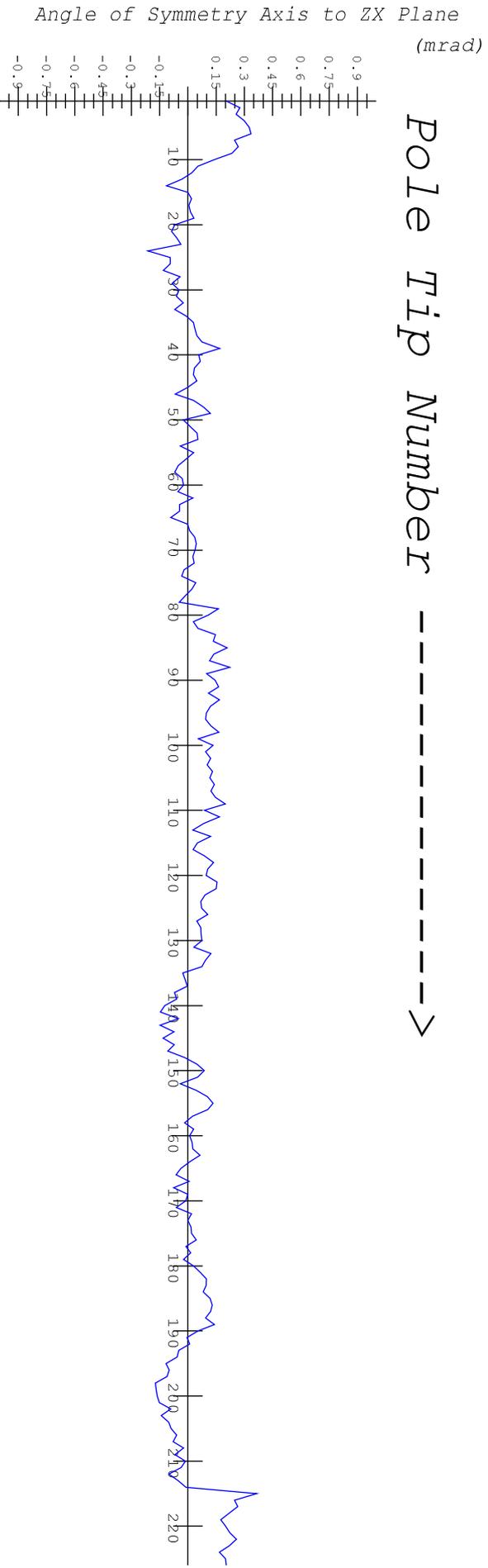


Pole Tip Number ----->



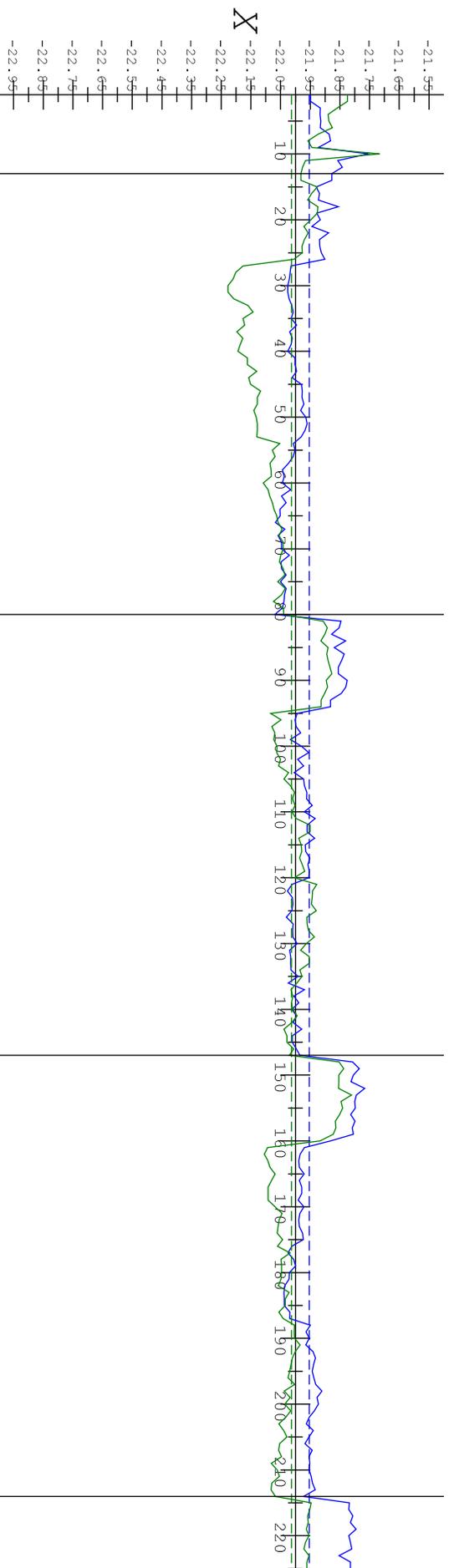
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

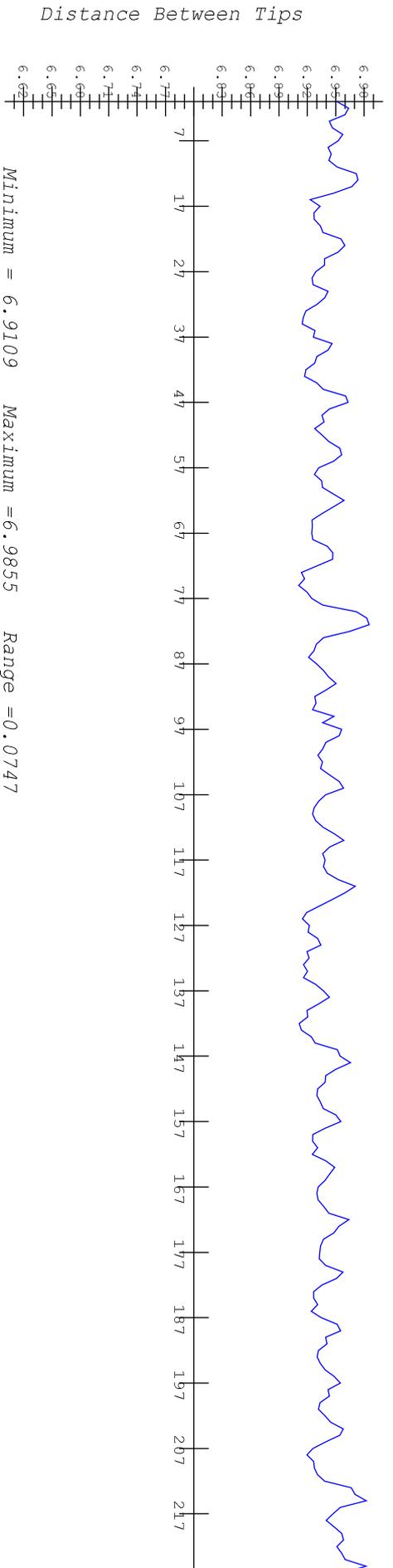
DATE: 01-JUL-2009
 UNDULATOR #02
 DATASET #0002
 PROGRAM VERSION 2.9

Pole Tip Number ----->



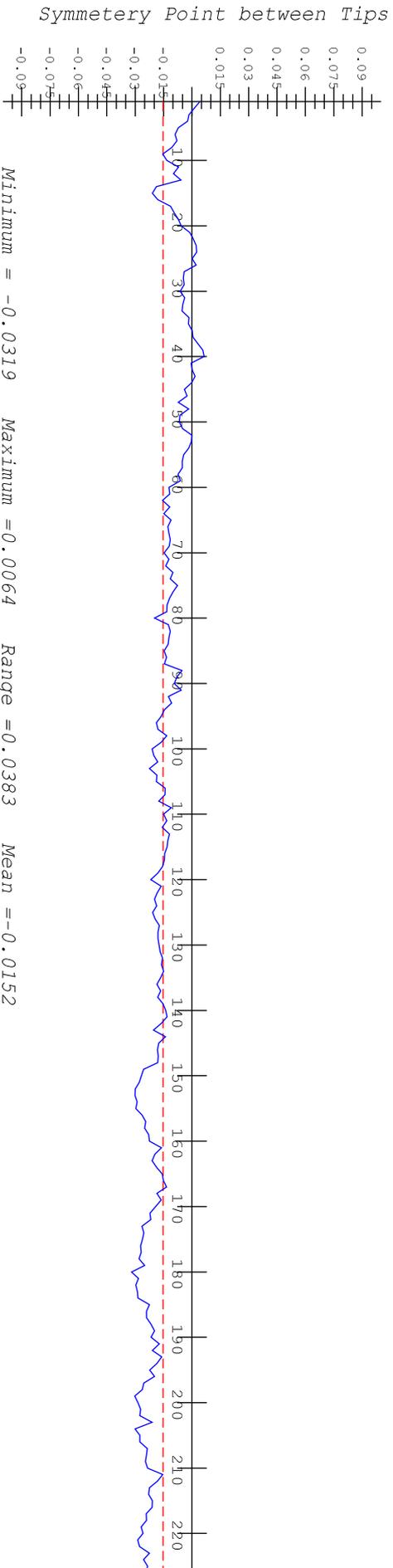
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 01-JUL-2009
 UNDUULATOR #02
 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

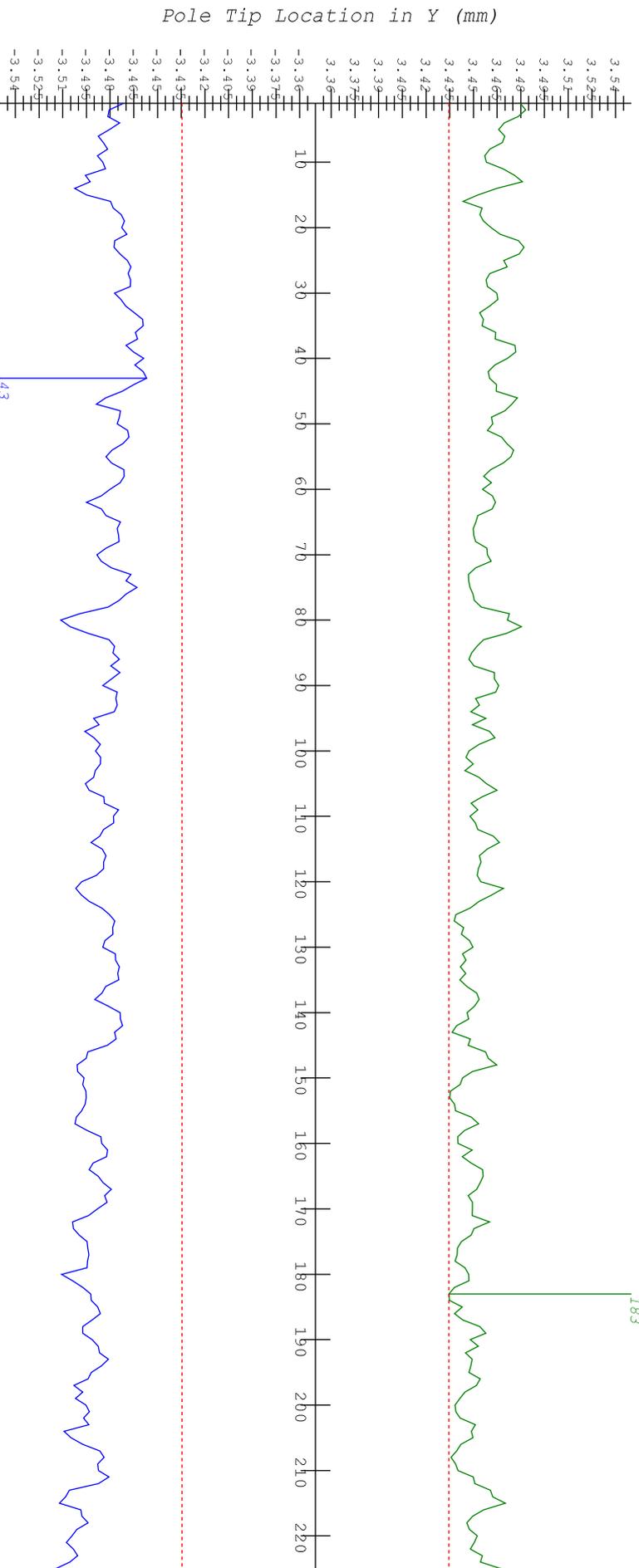


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 01-JUL-2009
 UNDUULATOR #02
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 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.8690

Minimum = 3.4345 Maximum = 3.4830 Range = 0.0485



Minimum = -3.5145 Maximum = -3.4569 Range = 0.0576

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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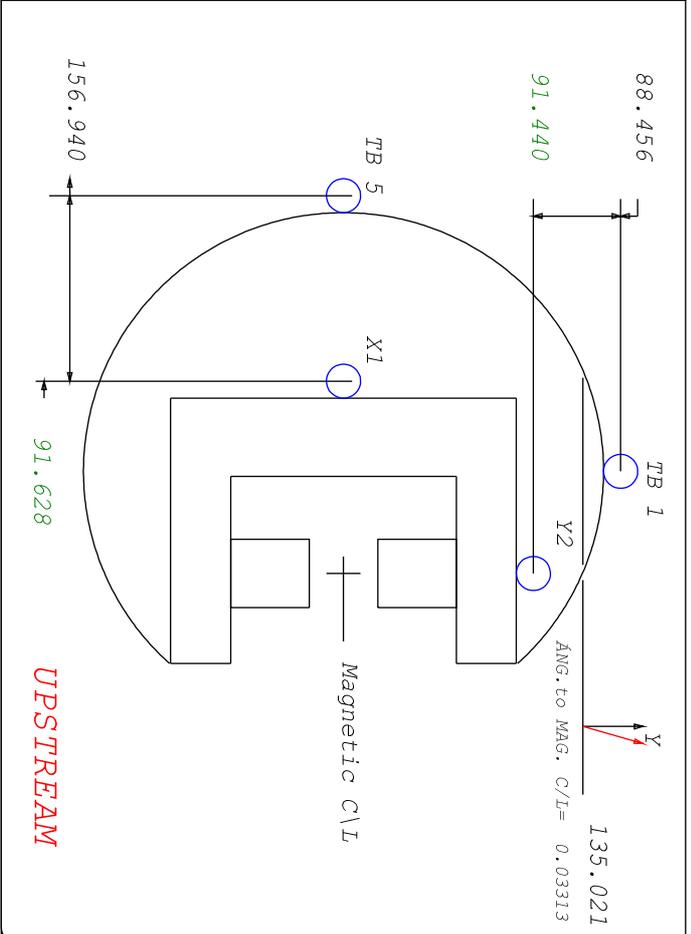
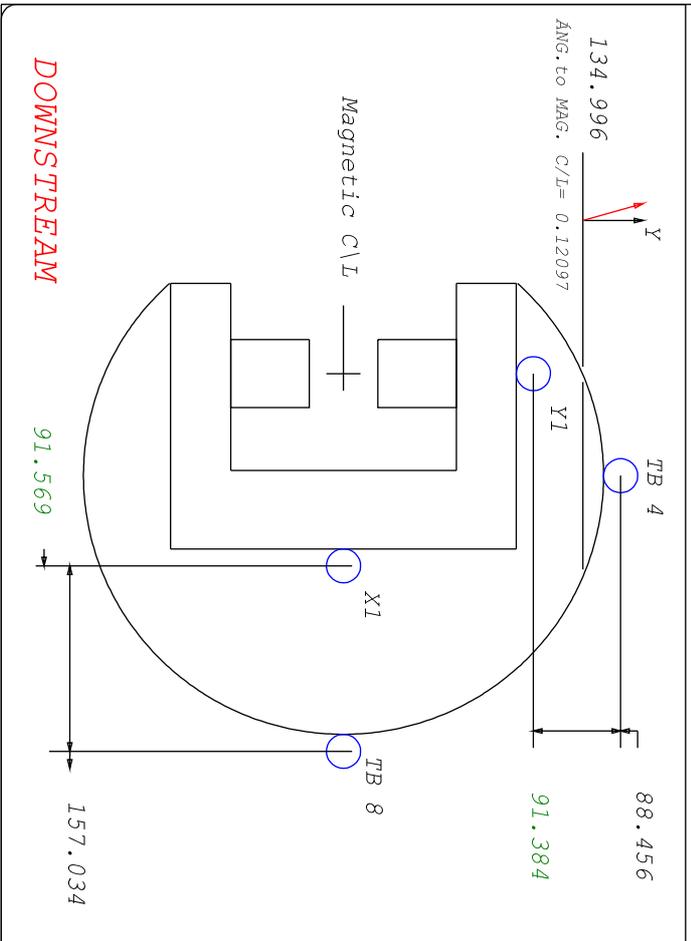
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1437	179.8955	-1558.205
2	0.3380	179.8192	-584.6087
3	0.2435	179.8009	591.3338
4	0.1933	179.8405	1562.2464
5	248.5675	-0.0805	-1558.200
6	248.6391	-0.1640	-584.5600
7	248.6488	-0.1367	591.5750
8	248.6032	-0.0058	1562.4223

	C/L Offset	Length
Top Magnetic Structure	0.001	3380.955
Bottom Magnetic Structure	-0.001	3380.946
Strongback	0.418	3400.010

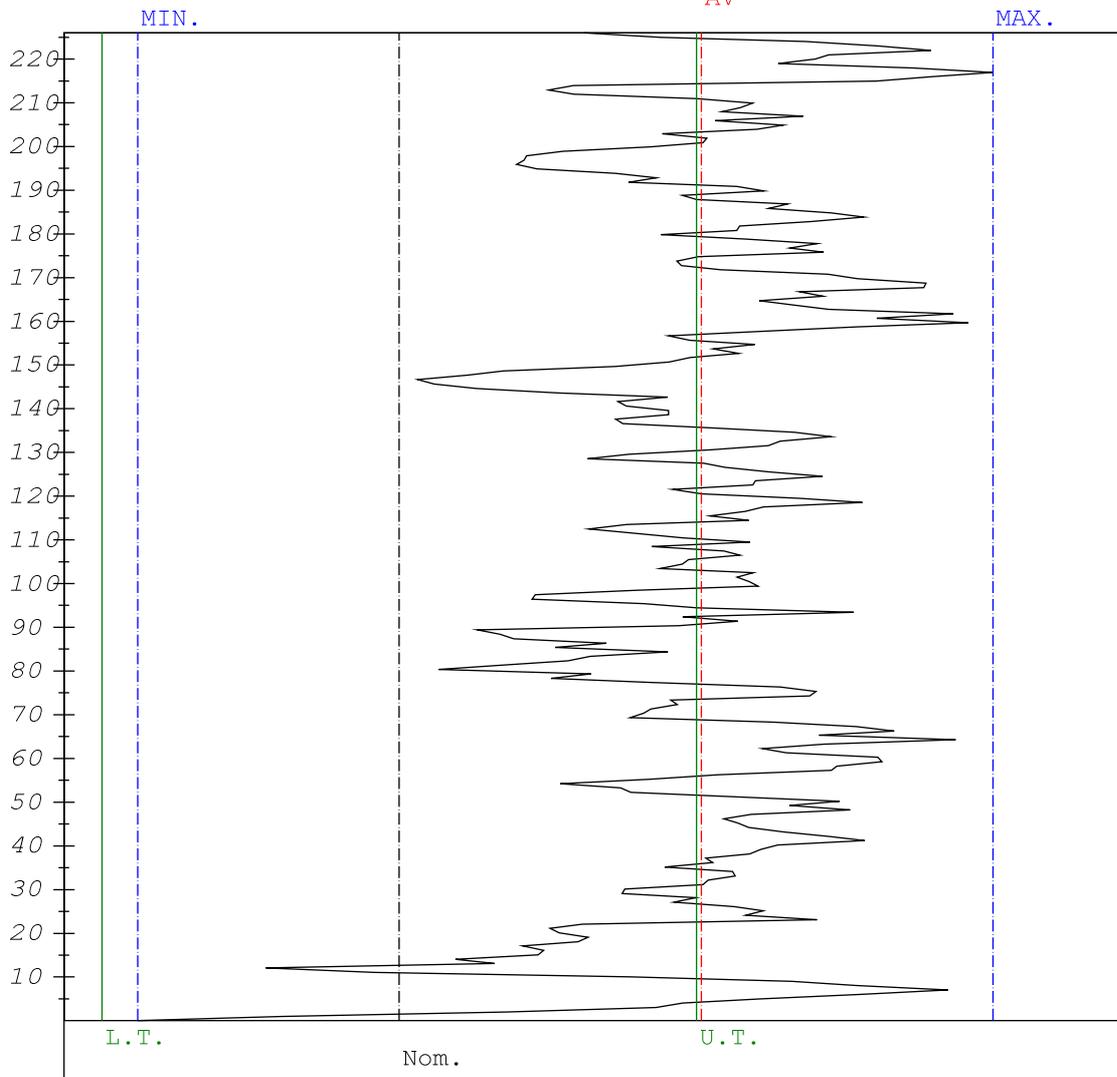
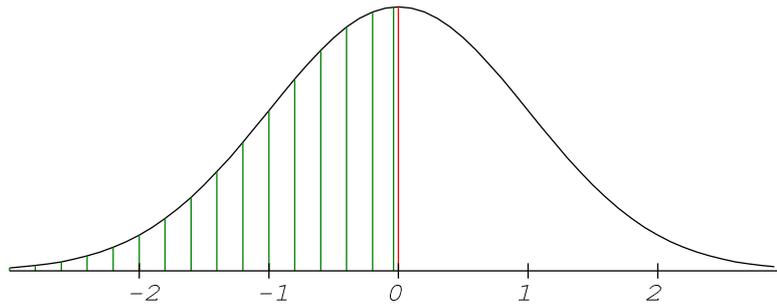
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.0083	Cent.-Dev. : 0.5083
Up. Tol. : 0.5	Maximum : 5.4988	U.Tol.Ex. > : 51.5 %
Low.Tol. : -0.5	Minimum : 4.0602	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2180	In Tolerance: 48.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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 UNDULATOR #02
 DATASET #0002
 PROGRAM VERSION 2.9