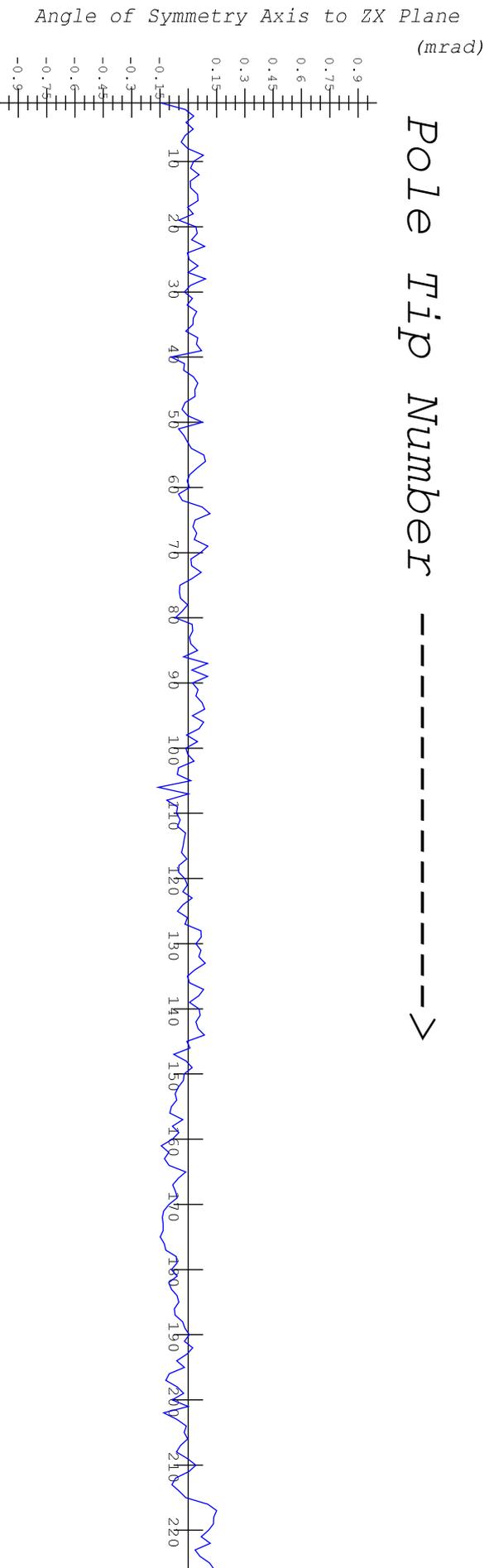


Pole Tip Number ----->



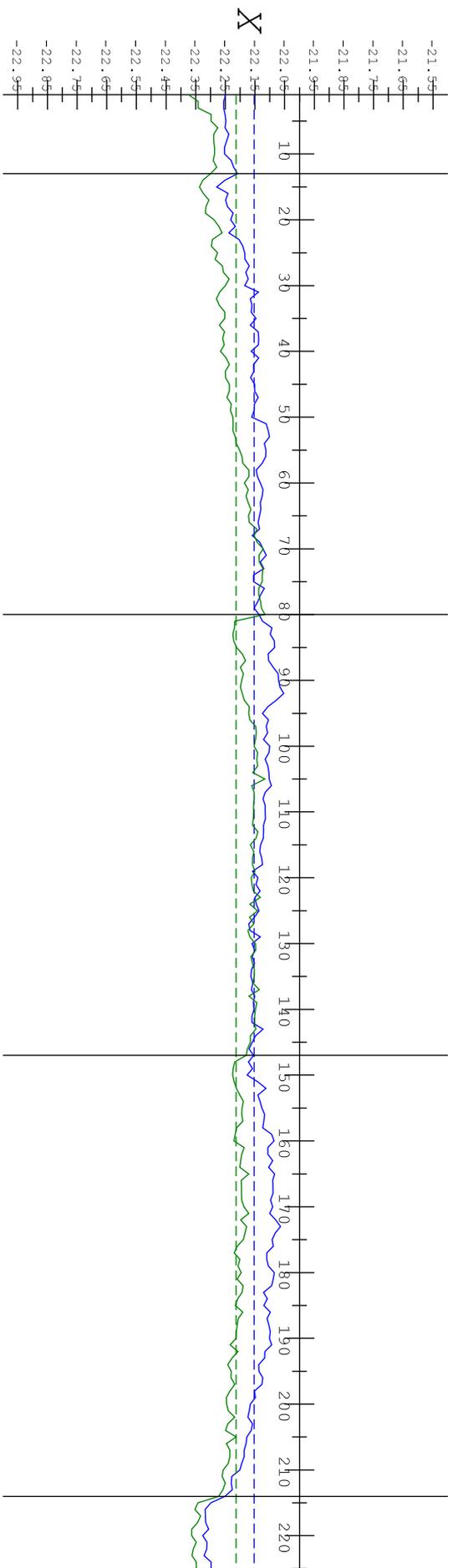
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
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Pole Tip Number ----->



X values in mm

Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L

Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.214

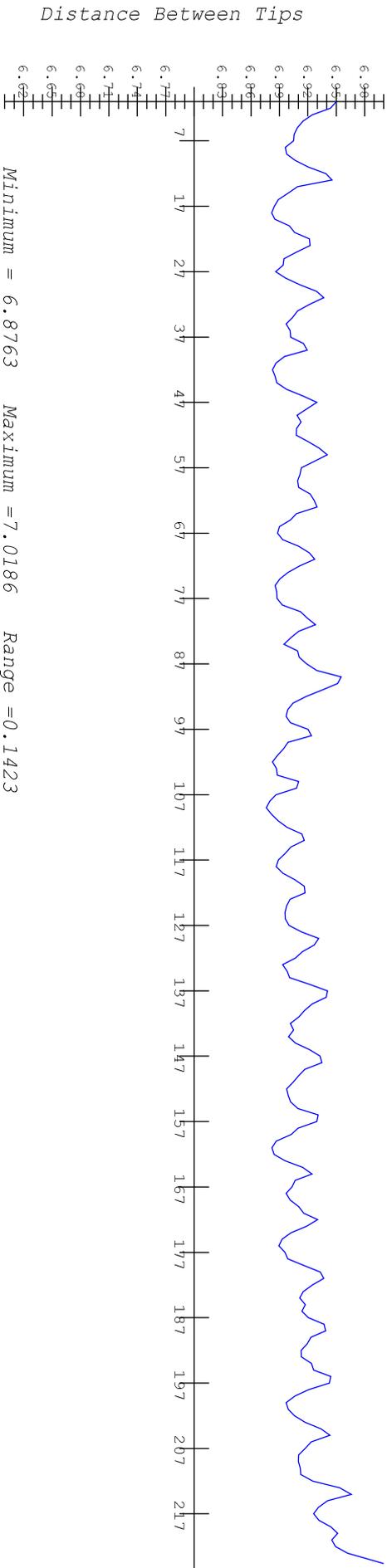
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.153



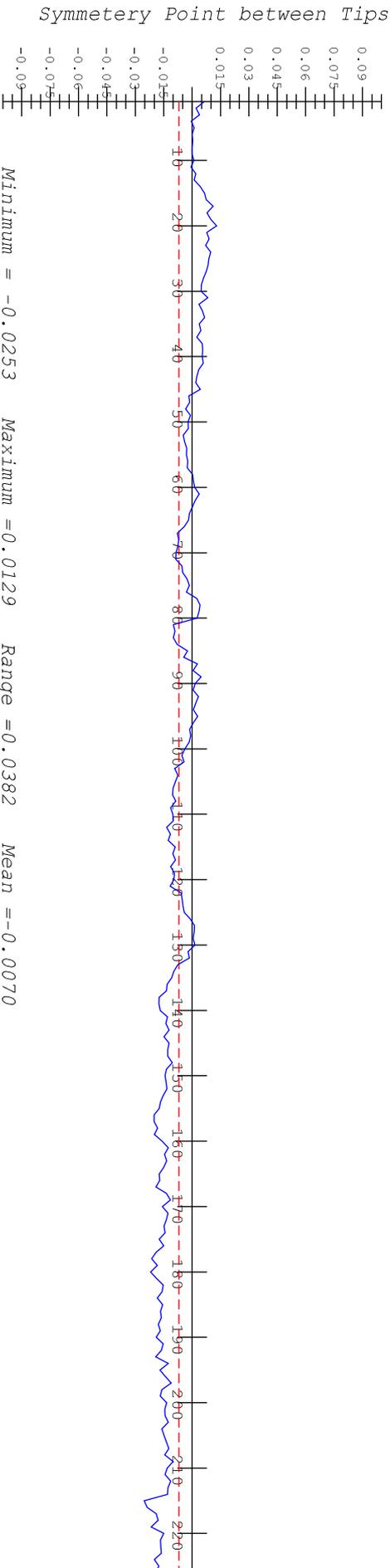
Undulator Pole Tip Location
Post Magnetic Alignment

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DATASET # 0004
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in mm

Pole Tip Number ----->



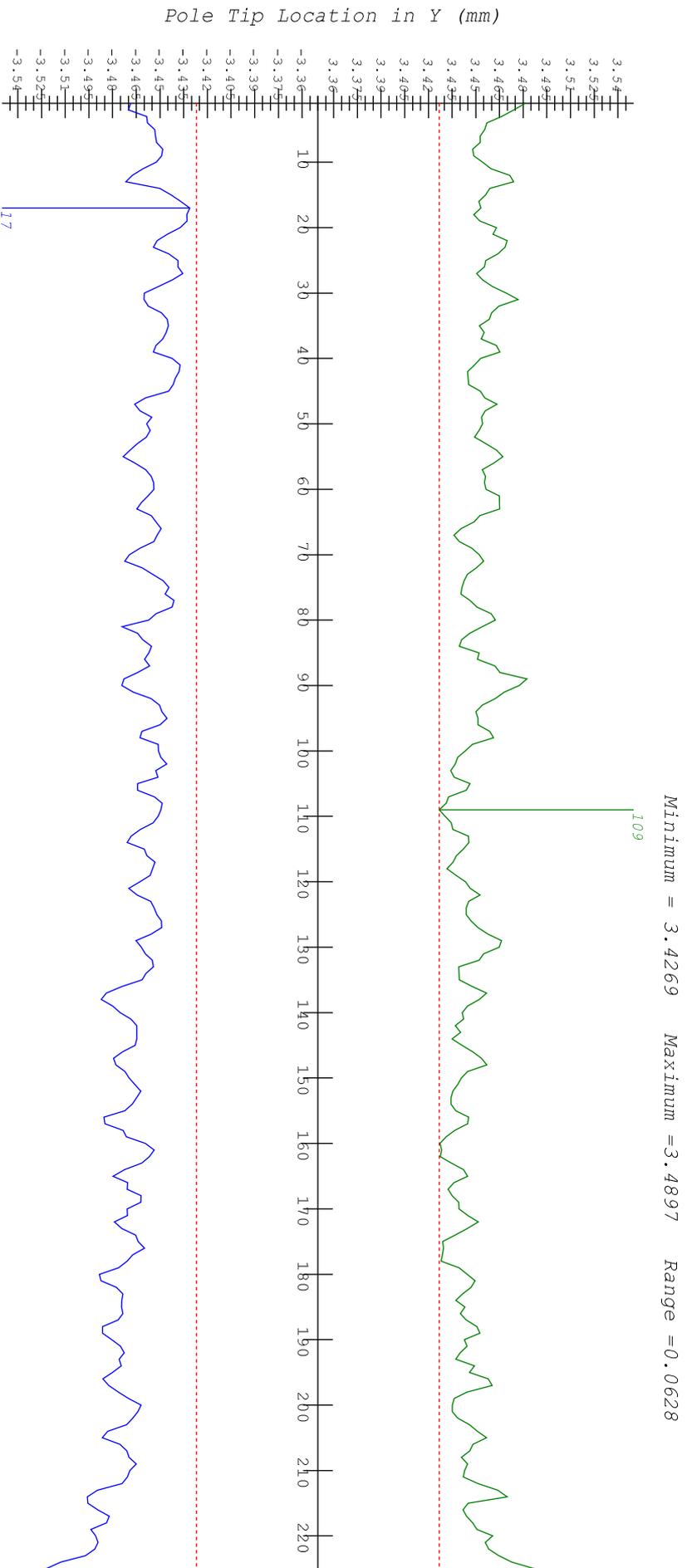
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L



Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8537



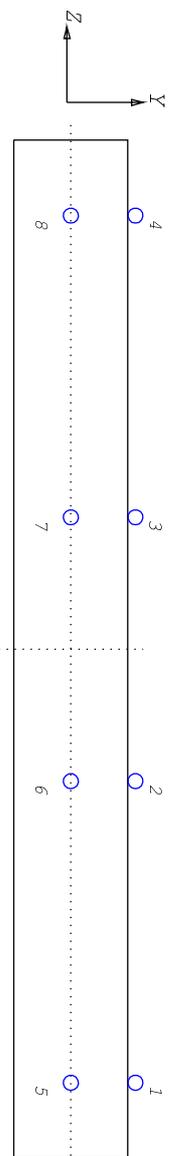
Pole Tip Number ----->

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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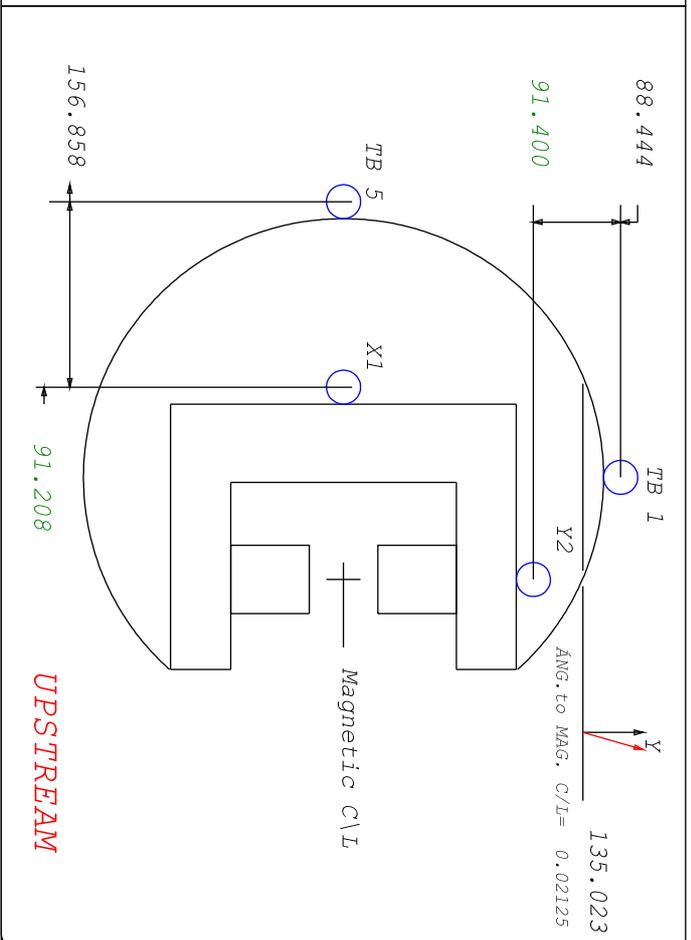
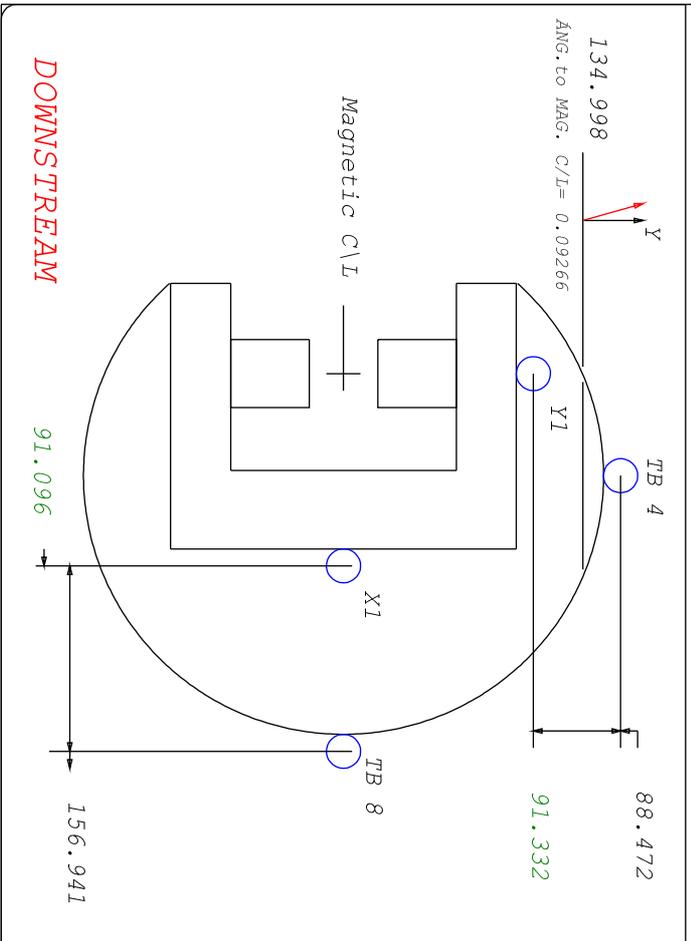
TOOLING BALL LOCATIONS

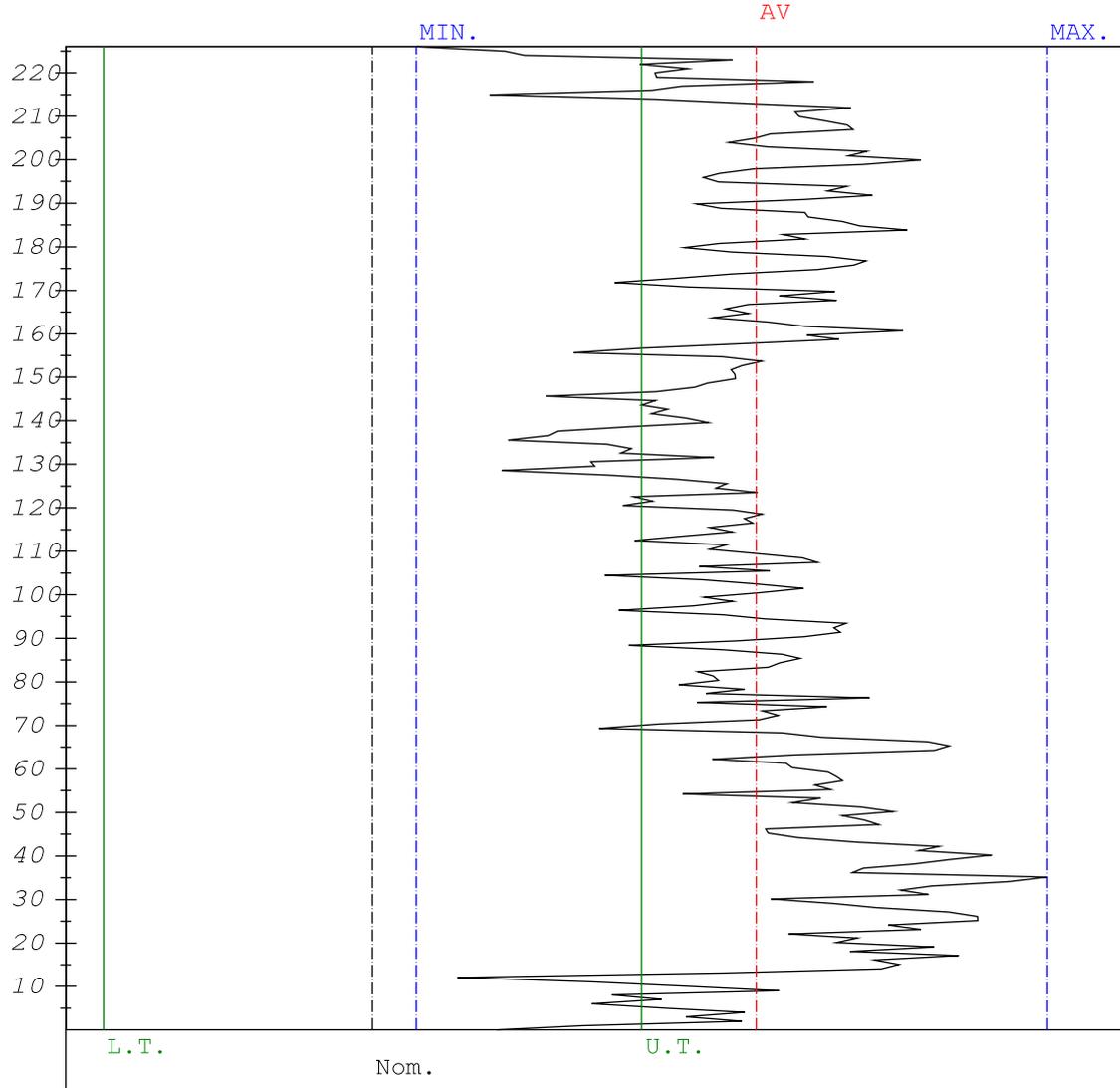
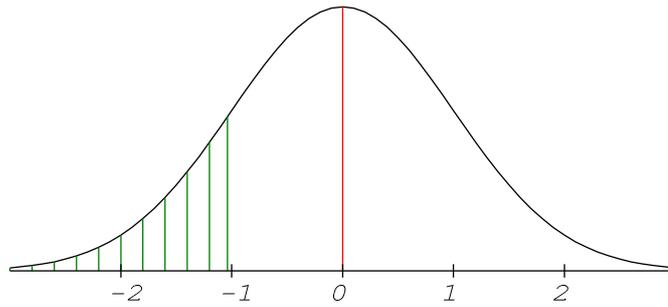
NUM.	X	Y	Z
1	-0.2156	179.8444	-1558.109
2	-0.2067	179.7268	-584.5934
3	-0.0965	179.6967	591.4993
4	-0.1561	179.8035	1562.3079
5	248.0658	0.0899	1558.102
6	248.1675	0.0156	-584.4815
7	248.1394	-0.0225	591.5568
8	248.0373	0.0164	1562.4114

	C/L Offset	Length
Top Magnetic Structure	-0.066	3380.937
Bottom Magnetic Structure	0.066	3381.194
Strongback	0.478	3399.964

Dimensions in mm

Angles in mrad





Nominal : 4.5000	Averag : 5.2128	Cent.-Dev. : 0.7128
Up. Tol. : 0.5	Maximum : 5.7533	U.Tol.Ex. > : 85.0 %
Low.Tol. : -0.5	Minimum : 4.5810	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2052	In Tolerance: 15.0 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

DATE: 12-MAY-2010
 UNDULATOR # 32
 DATASET # 0004
 PROGRAM VERSION 2.9