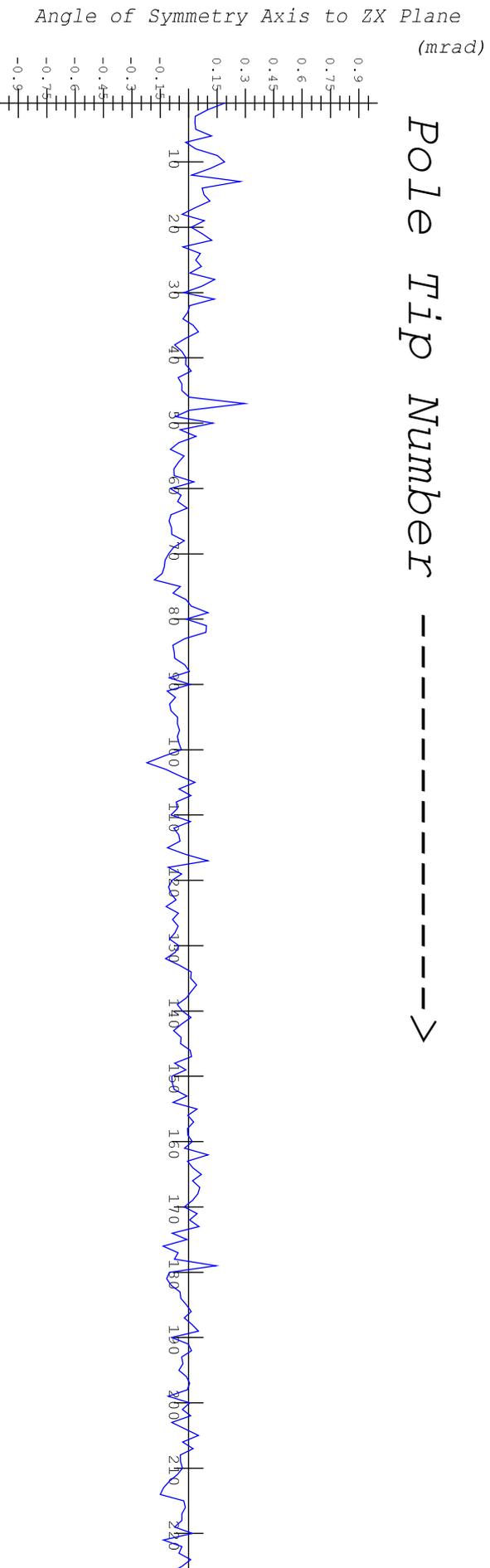


Pole Tip Number ----->



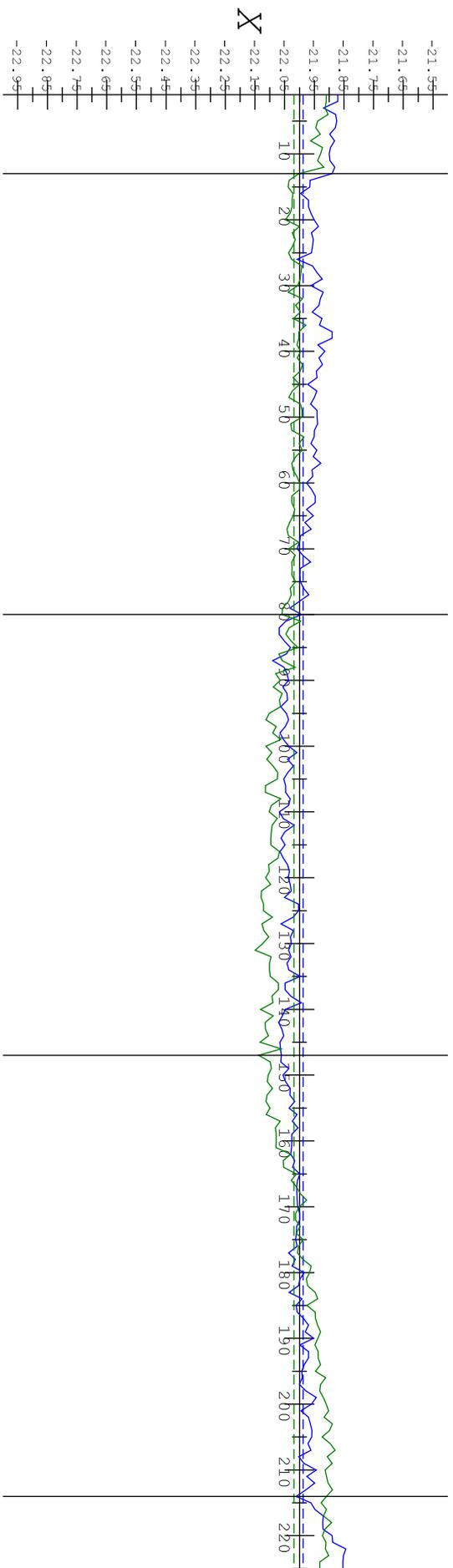
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 13-JUL-2010
 UNDULATOR #01
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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 = -22.018

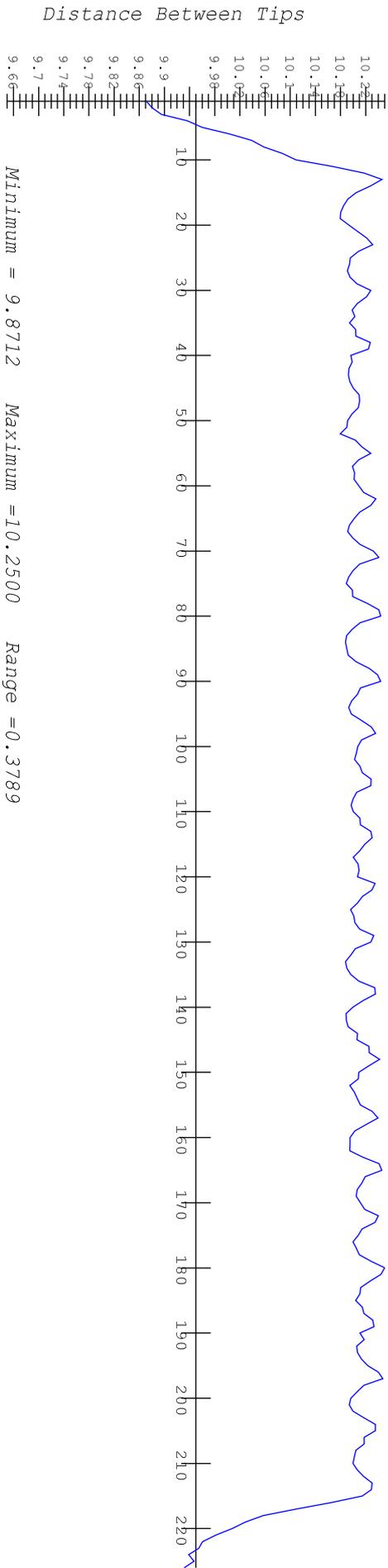
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -21.988



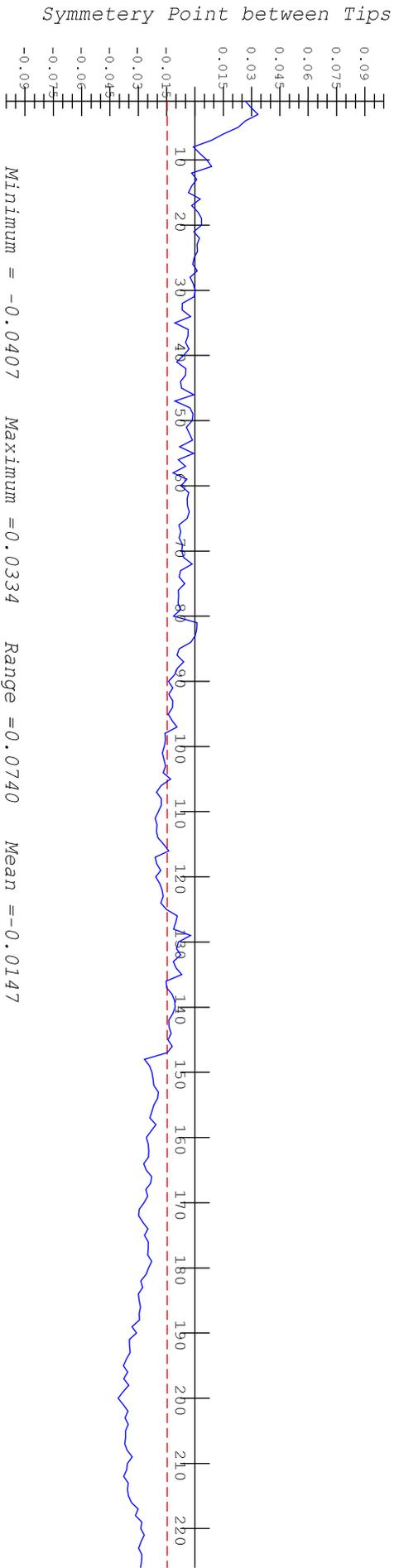
Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 13-JUL-2010
UNDULATOR #01
DATASET # 0001
PROGRAM VERSION 4.0



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

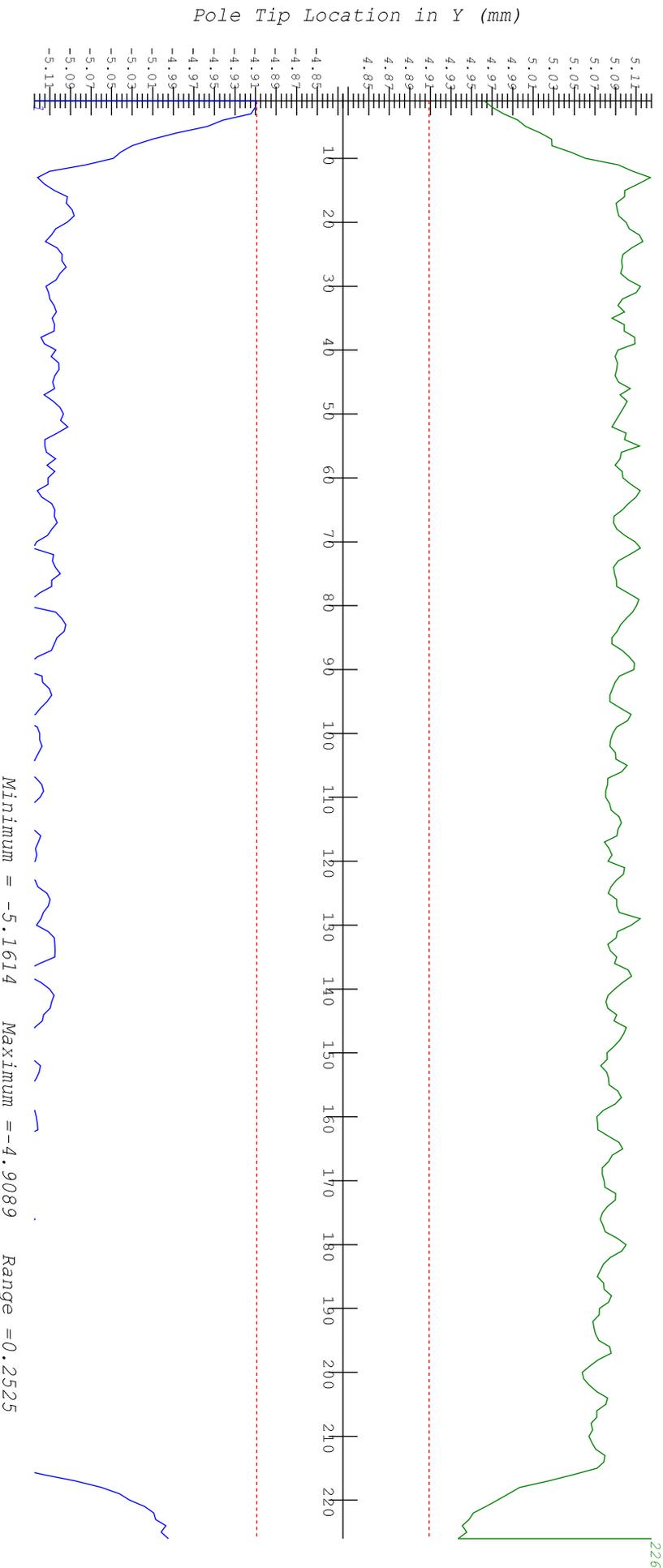


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 13-JUL-2010
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 PROGRAM VERSION 4.0

Maximum Chamber Gap = 9.8178

Minimum = 4.9369 Maximum = 5.1239 Range = 0.1870



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

DATE: 13-JUL-2010
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DATASET # 0001
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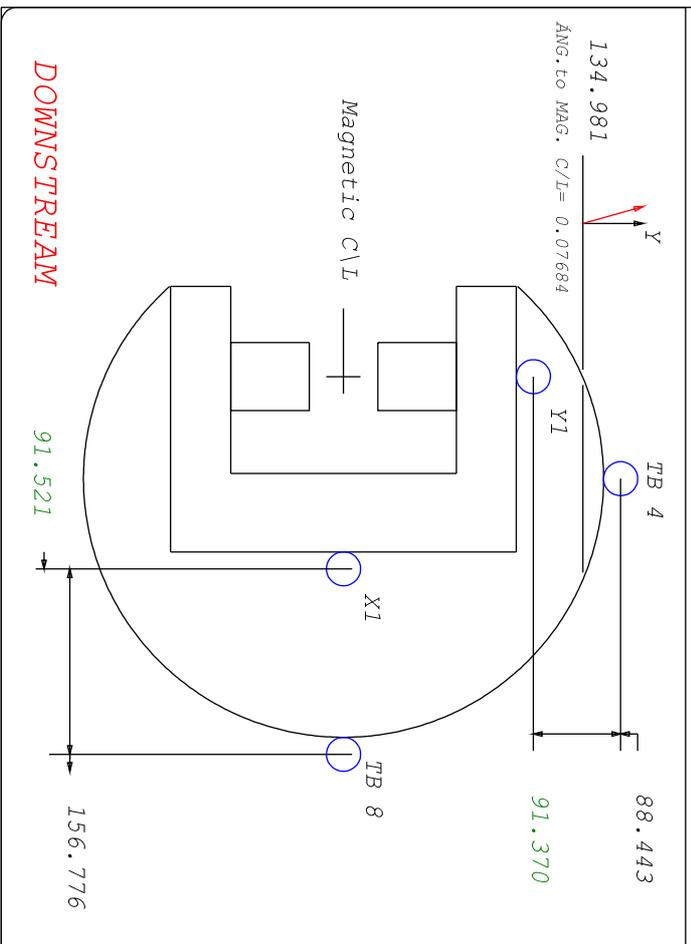
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0371	179.9399	-1558.021
2	-0.0969	179.8313	-584.5729
3	-0.0414	179.8296	591.5990
4	0.0692	179.8132	1562.3397
5	248.3601	0.0873	1558.140
6	248.2435	0.1138	-584.4968
7	248.2871	0.2132	591.3367
8	248.2972	0.0318	1562.2782

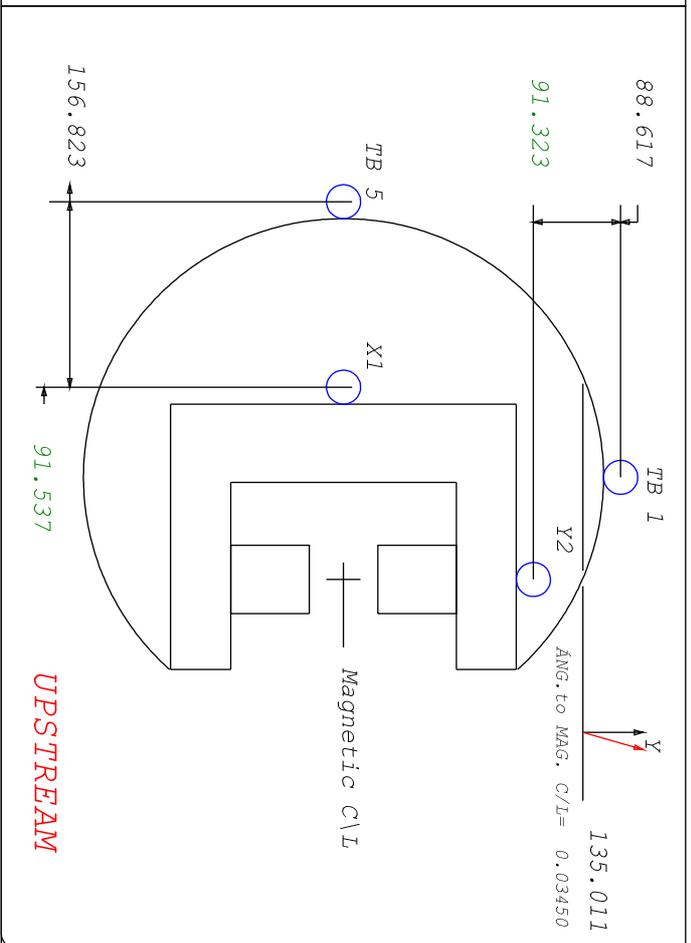
	C/L Offset	Length
Top Magnetic Structure	-0.014	3380.617
Bottom Magnetic Structure	0.014	3380.748
Strongback	0.500	3399.951

Dimensions in mm

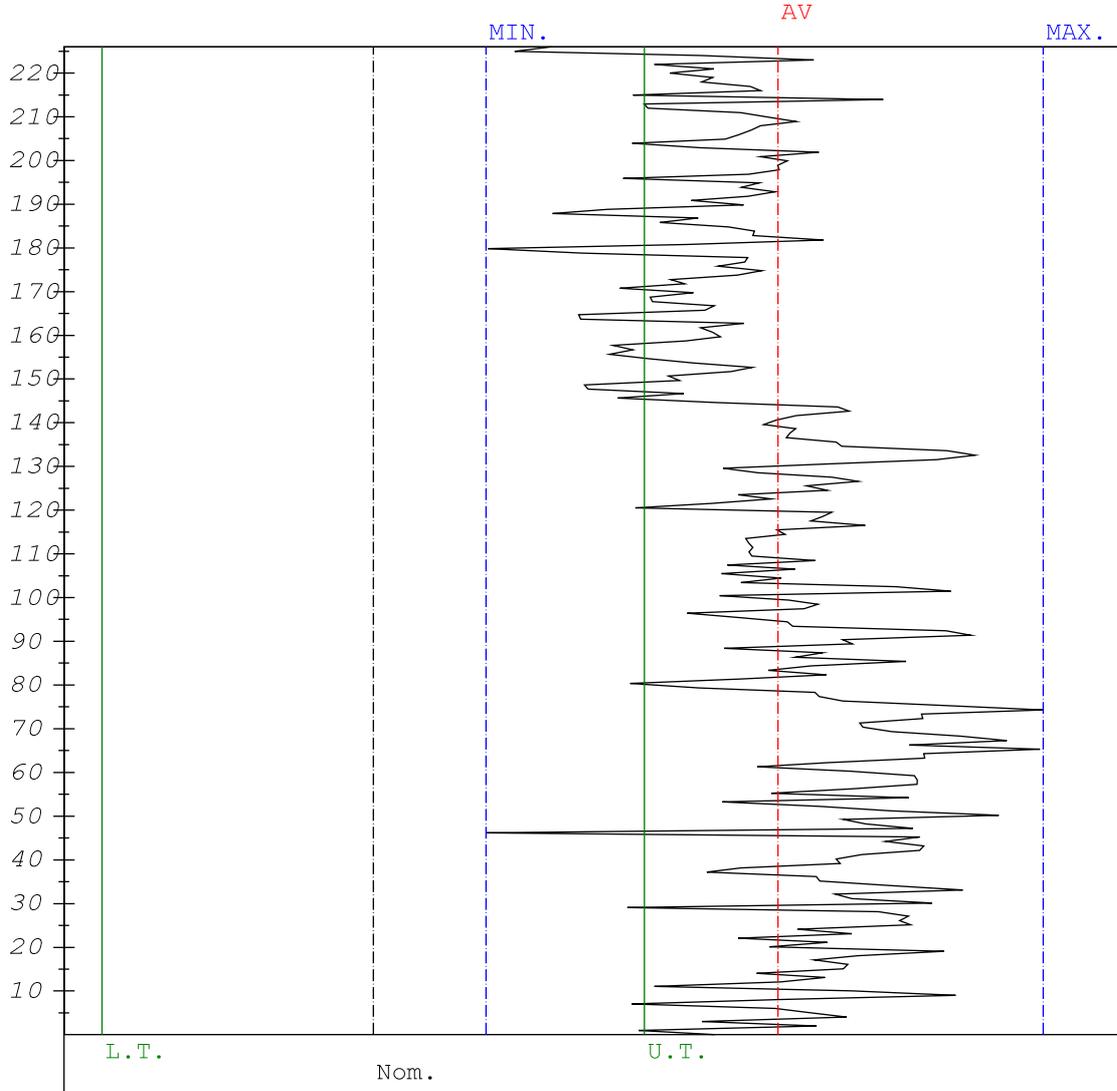
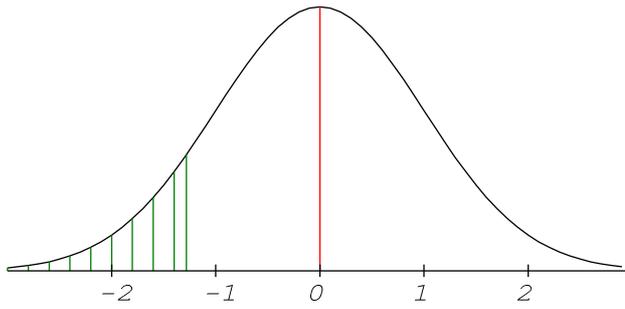
Angles in mrad



DOWNSTREAM



UPSTREAM



Nominal : 4.5000	Averag : 5.246	Cent.-Dev. : 0.746
Up. Tol. : 0.5	Maximum : 5.7349	U.Tol.Ex. > : 90.0 %
Low.Tol. : -0.5	Minimum : 4.7082	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1920	In Tolerance: 10.0 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE:13-JUL-2010

UNDULATOR #01
DATASET # 0001
PROGRAM VERSION 4.0