

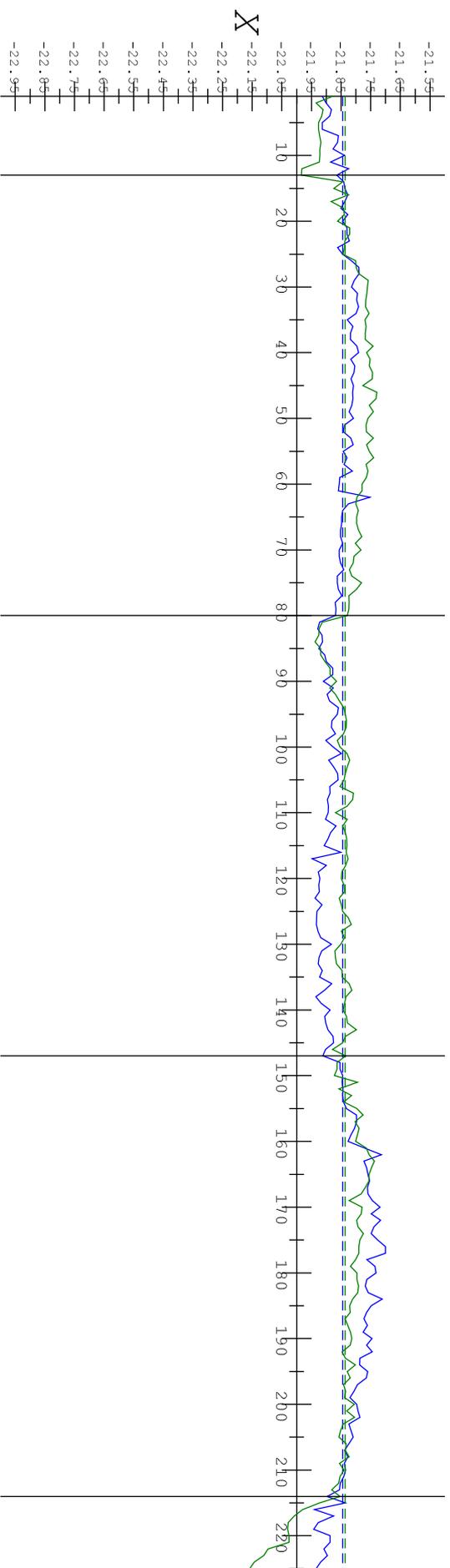
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

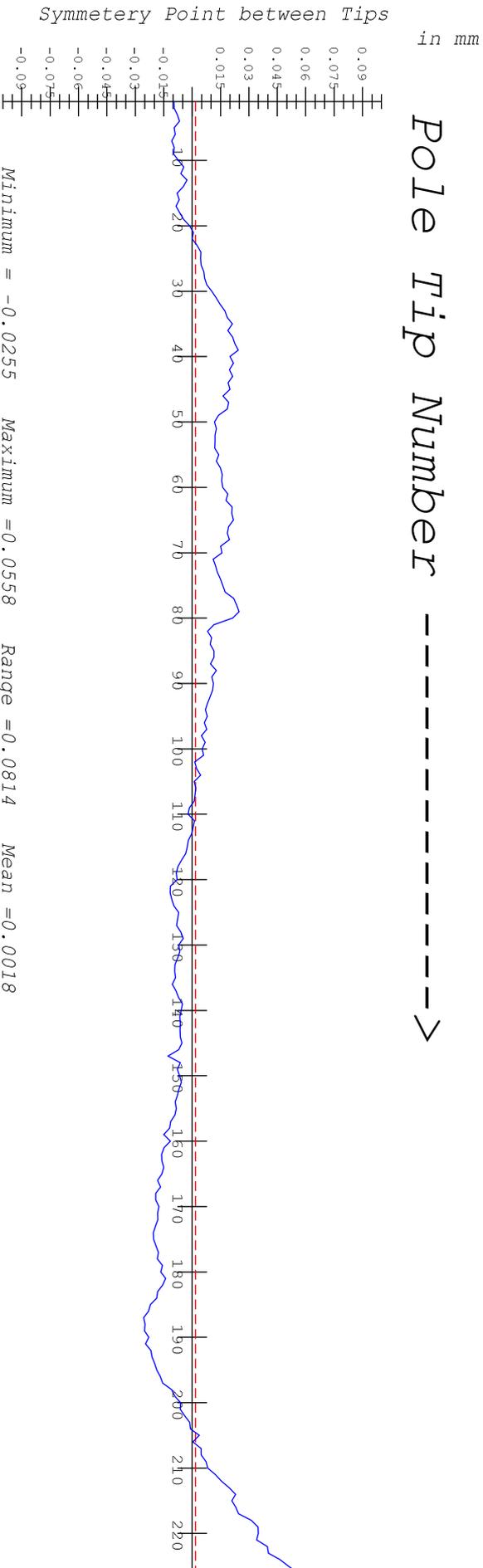
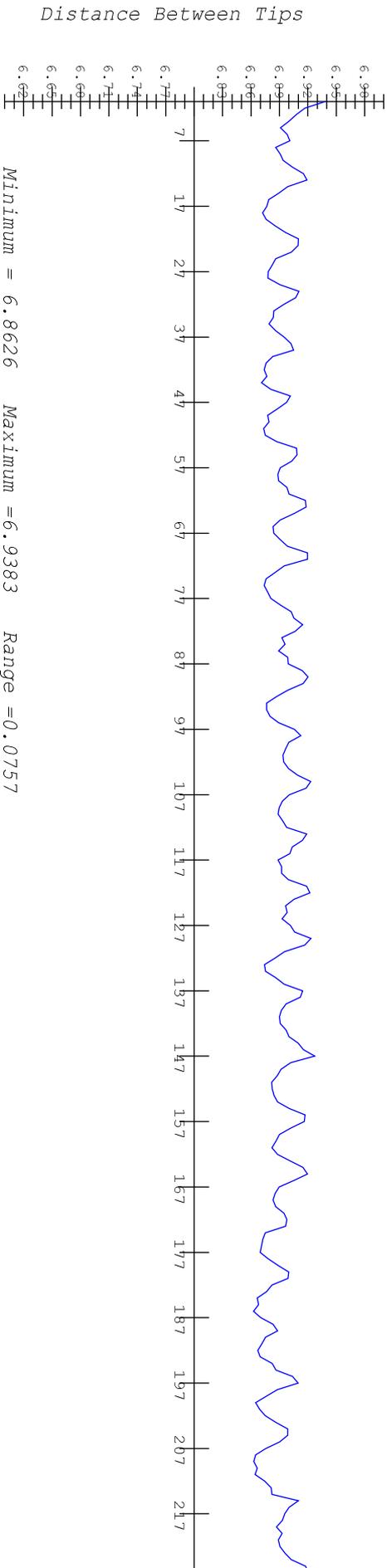
DATE: 18-FEB-2010
 UNDULATOR #13
 DATASET #0027
 PROGRAM VERSION 2.9

Pole Tip Number ----->



Undulator Pole Tip Location Post Magnetic Alignment

DATE: 18-FEB-2010
 UNDULATOR #13
 DATASET #0027
 PROGRAM VERSION 2.9



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

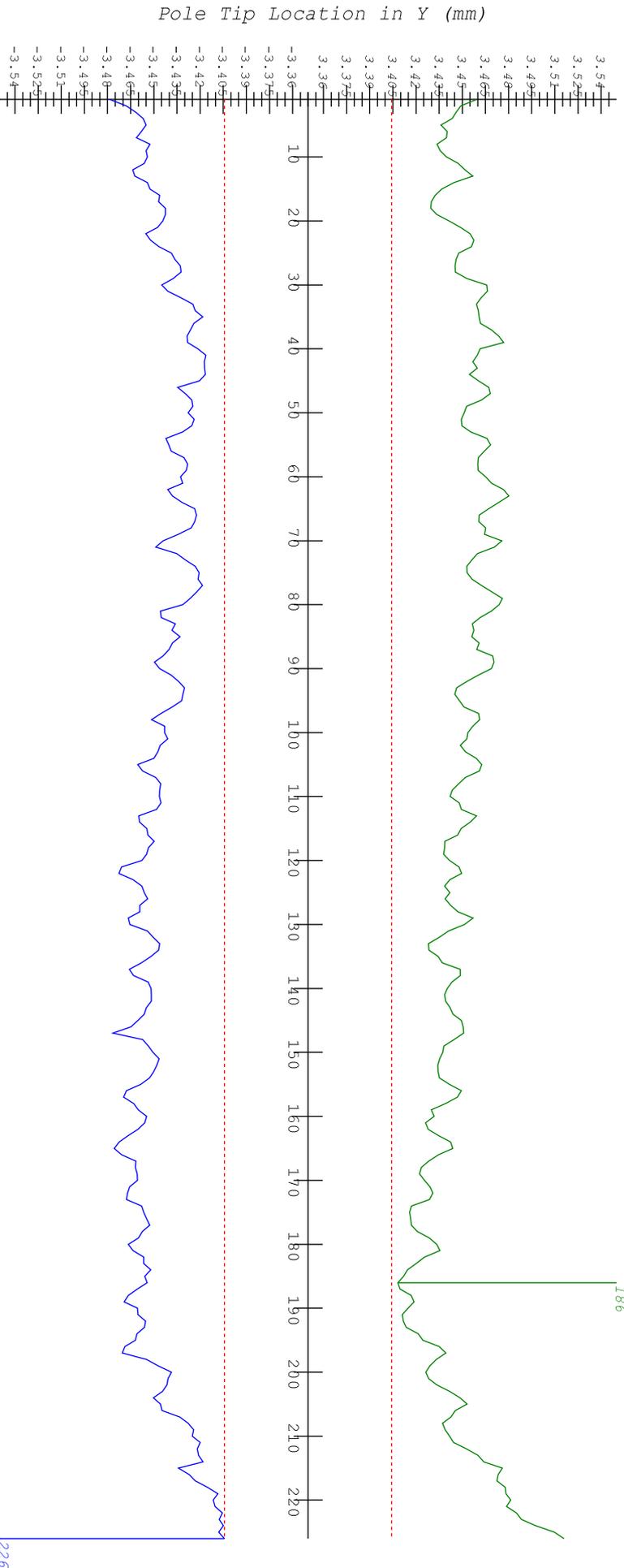


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 18-FEB-2010
 UNDUULATOR #13
 DATASET #0027
 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.8085

Minimum = 3.4082 Maximum = 3.5159 Range = 0.1076



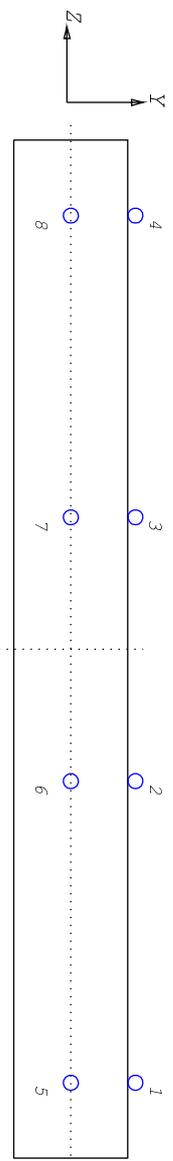
Pole Tip Number ----->

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: 18-FEB-2010
UNDULATOR #13
DATASET #0027
PROGRAM VERSION 2.9



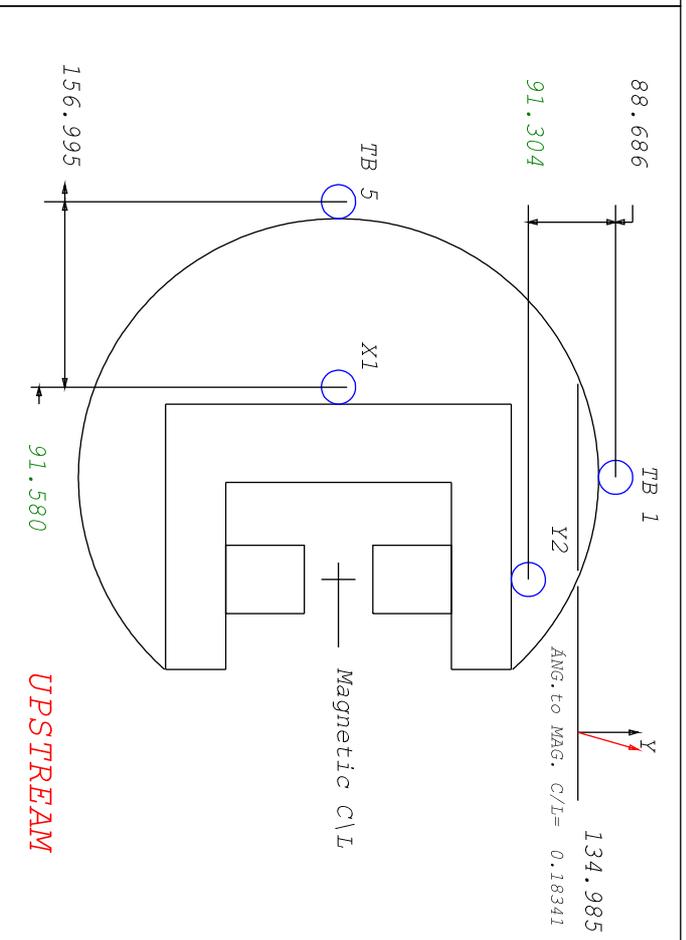
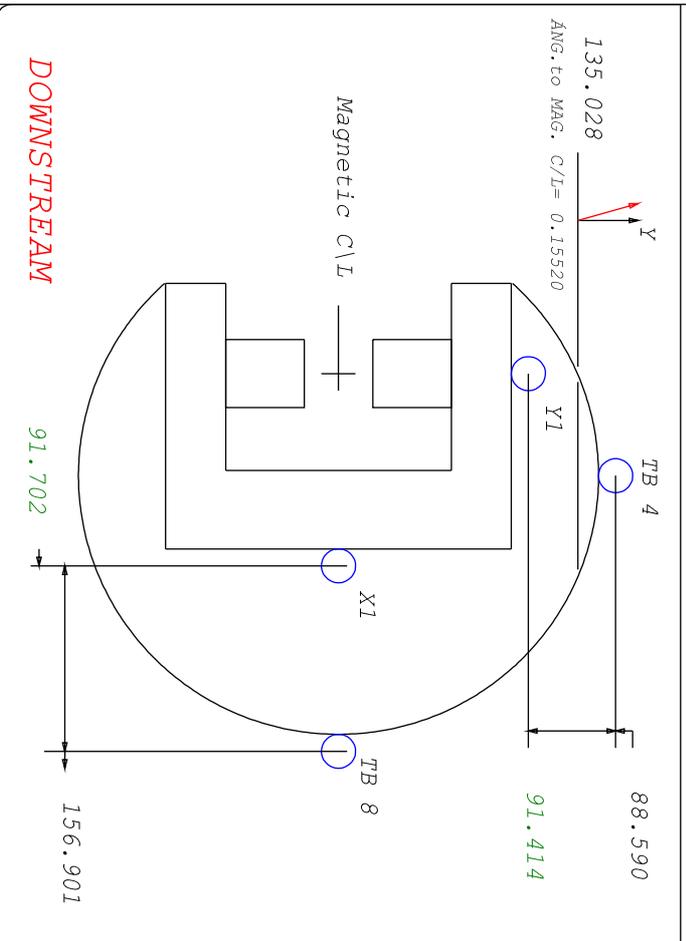
TOOLING BALL LOCATIONS

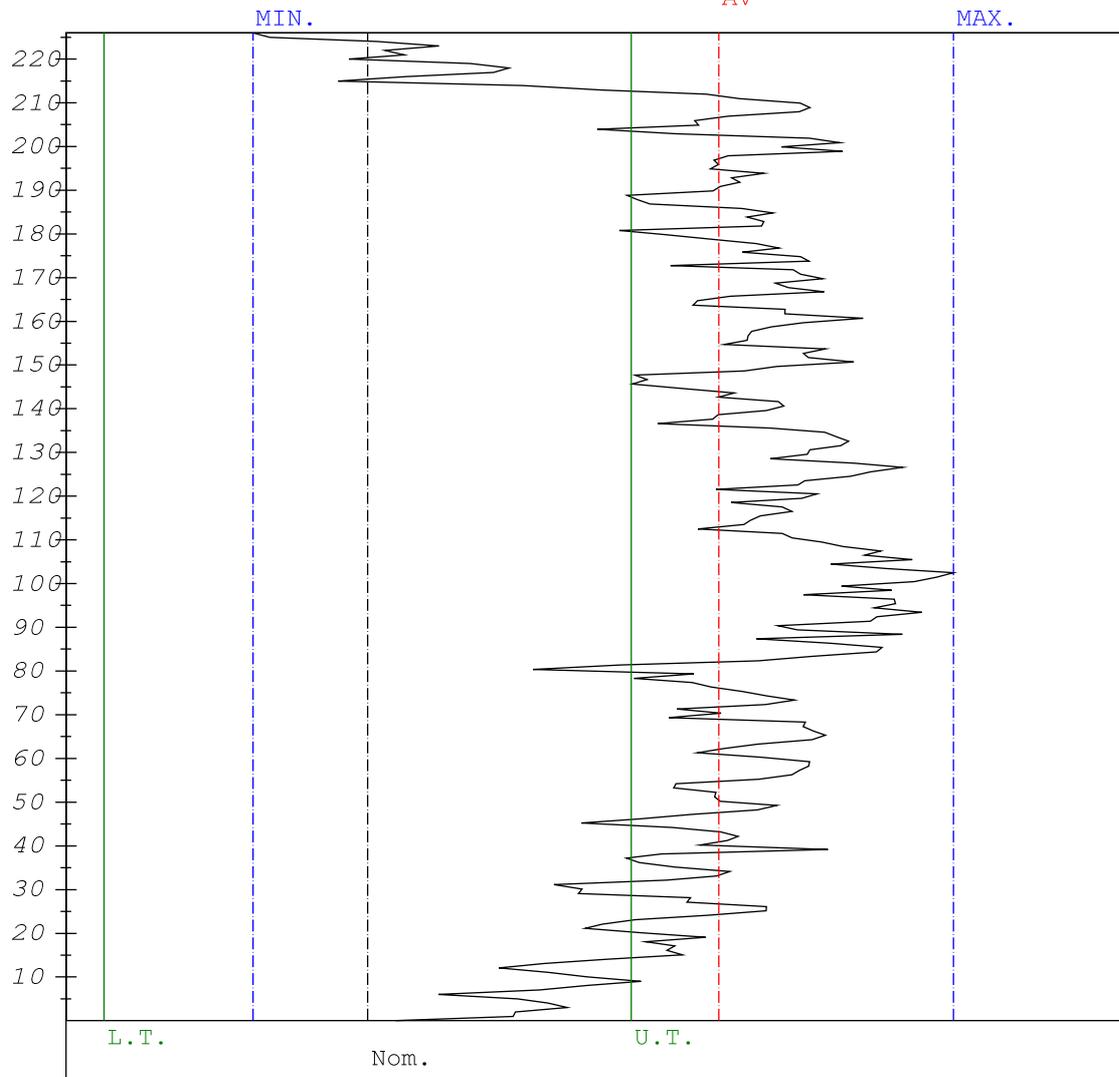
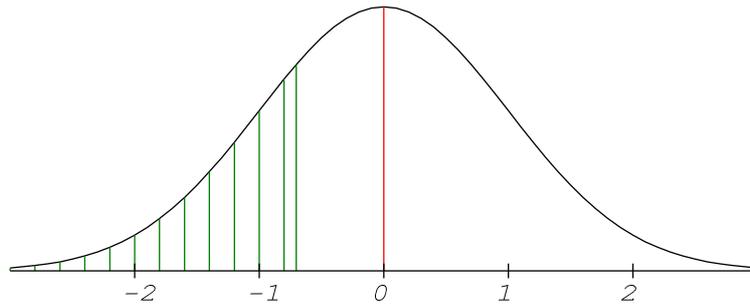
NUM.	X	Y	Z
1	0.2384	179.9901	-1558.285
2	0.3974	180.0173	-584.4553
3	0.2911	179.9030	591.3001
4	0.2431	180.0038	1562.0691
5	248.5746	0.0789	1558.351
6	248.5402	-0.0164	-584.5995
7	248.5593	0.0508	591.3258
8	248.6033	-0.0459	1562.0812

	C/L Offset	Length
Top Magnetic Structure	-0.096	3381.047
Bottom Magnetic Structure	0.096	3381.272
Strongback	0.249	3399.770

Dimensions in mm

Angles in mrad





Nominal : 4.5000	Averag : 5.166	Cent.-Dev. : 0.666
Up. Tol. : 0.5	Maximum : 5.6109	U.Tol.Ex. > : 75.9 %
Low.Tol. : -0.5	Minimum : 4.2826	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2362	In Tolerance: 24.1 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

DATE:18-FEB-2010
 UNDULATOR #13
 DATASET #0027
 PROGRAM VERSION 2.9