

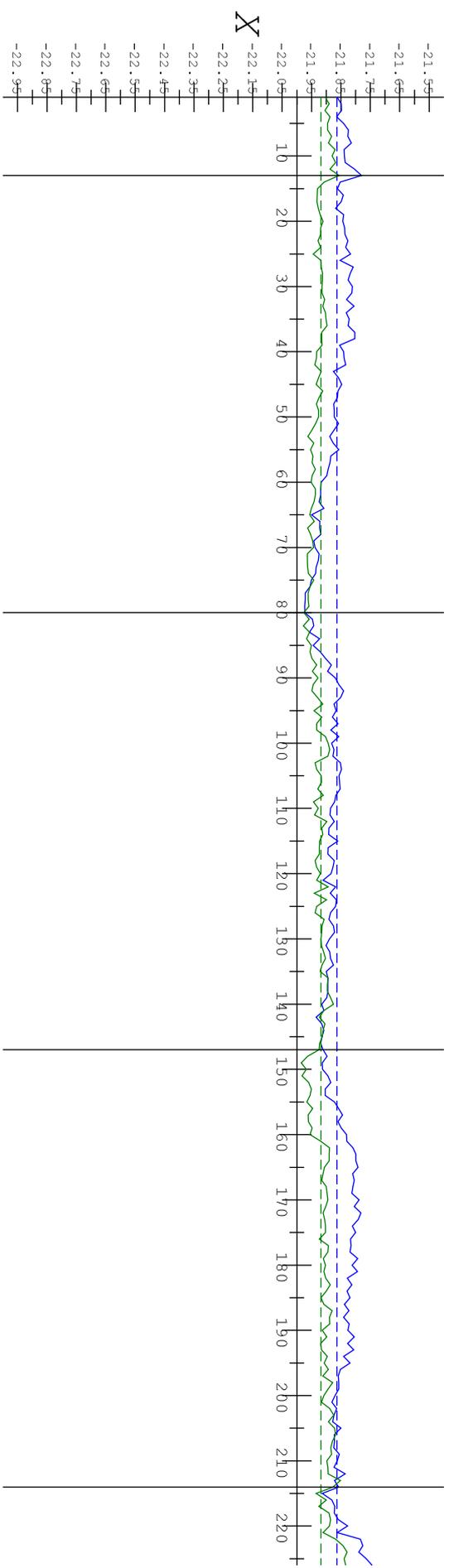
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 22-SEP-2009
 UNDULATOR # 27
 DATASET # 0001
 PROGRAM VERSION 2.9

Pole Tip Number ----->



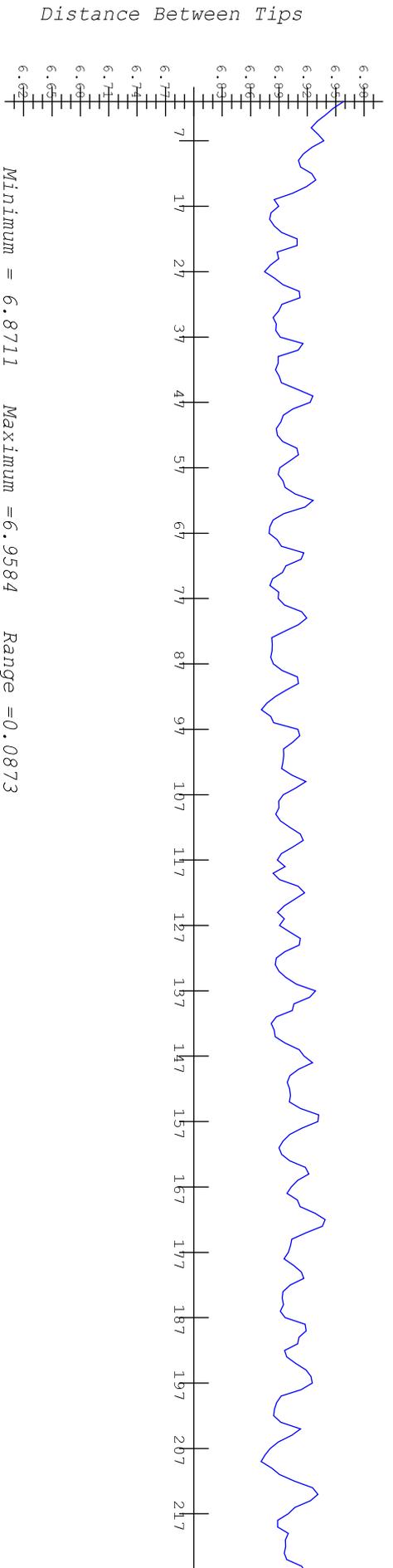
X values in mm

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 = -21.918
 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 = -21.864



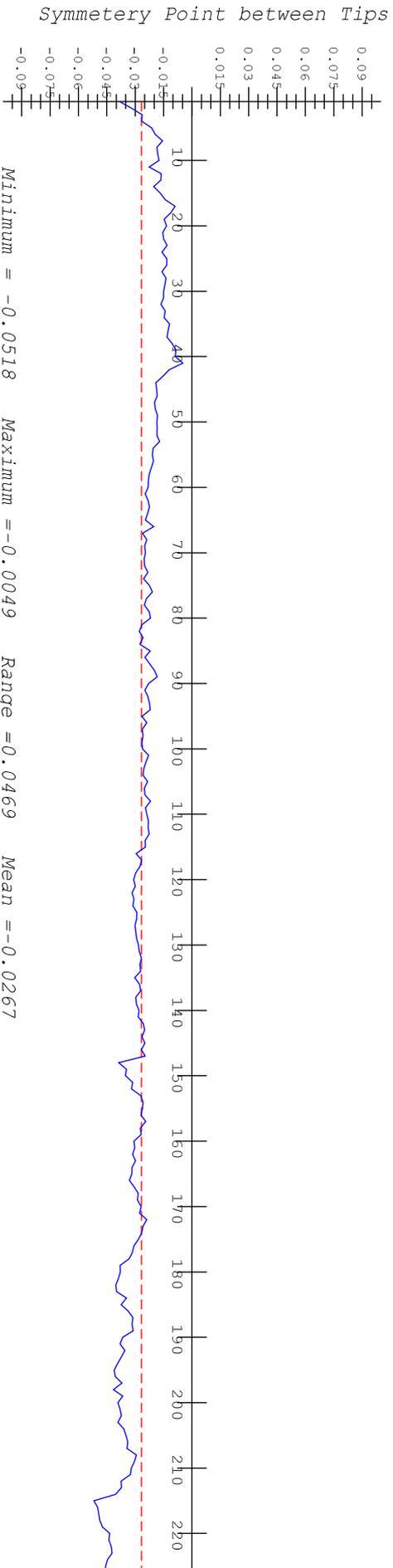
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 22-SEP-2009
 UNDULATOR # 27
 DATASET # 0001
 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

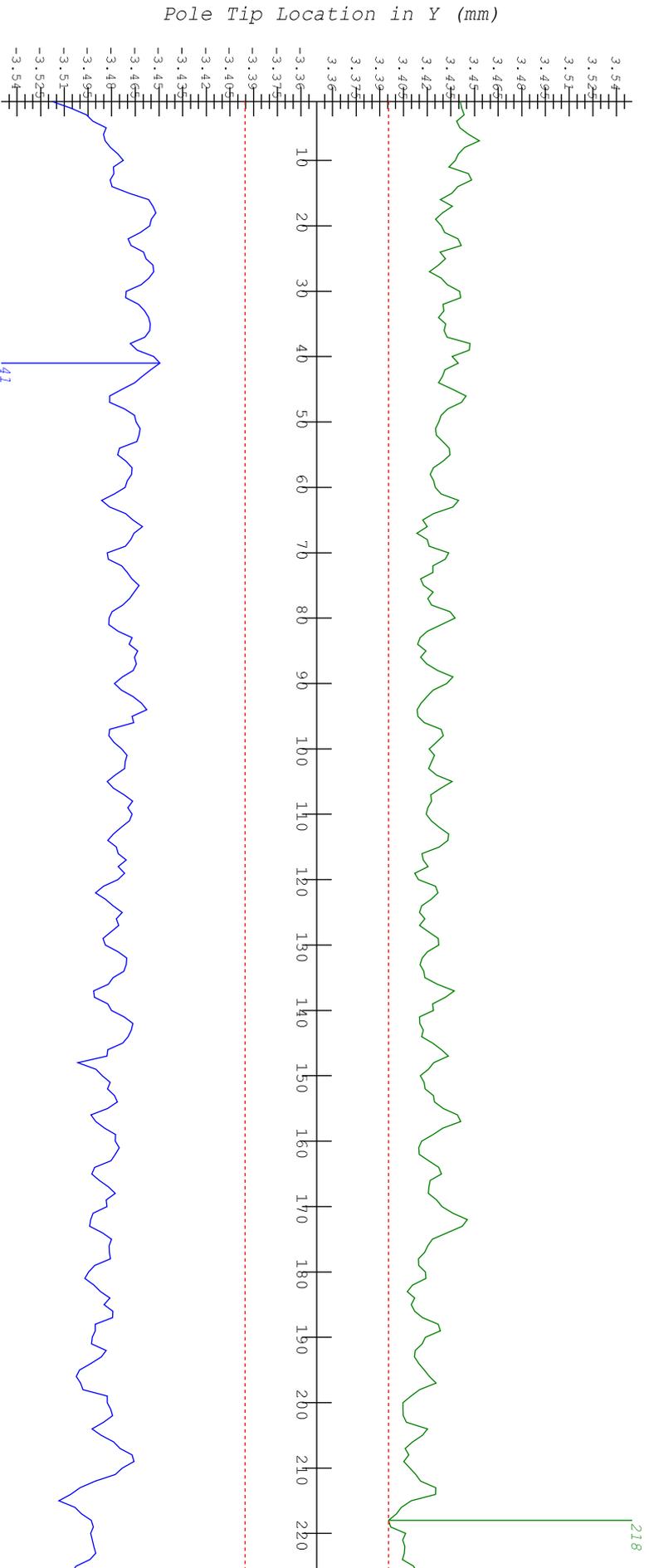


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 22-SEP-2009
 UNDUULATOR # 27
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 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.7909

Minimum = 3.3955 Maximum = 3.4531 Range = 0.0577



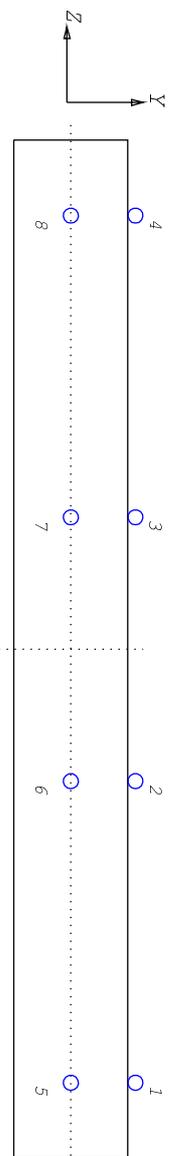
Pole Tip Number ----->

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: 22-SEP-2009
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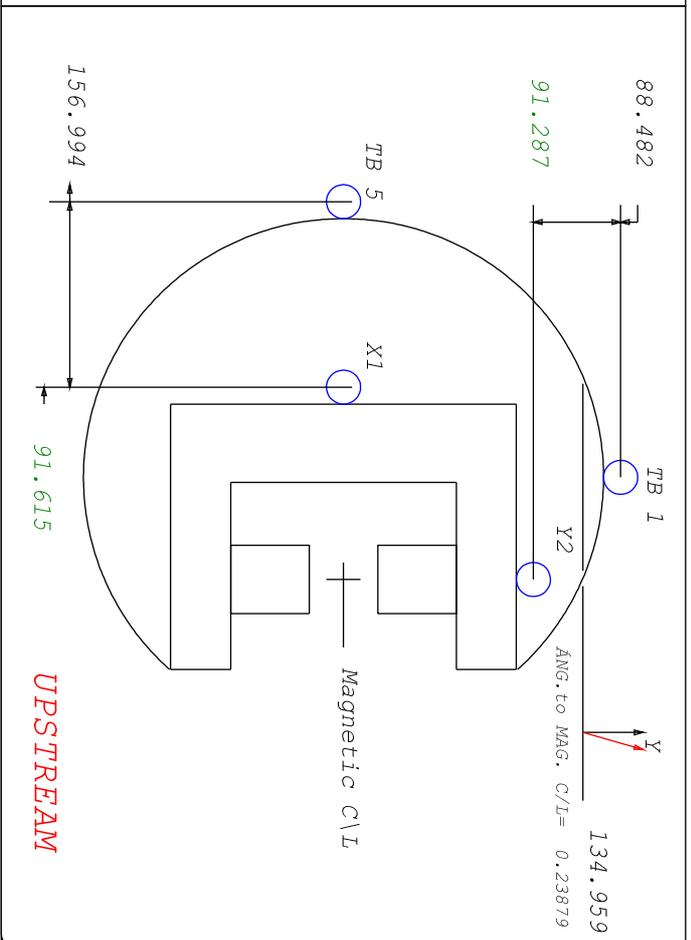
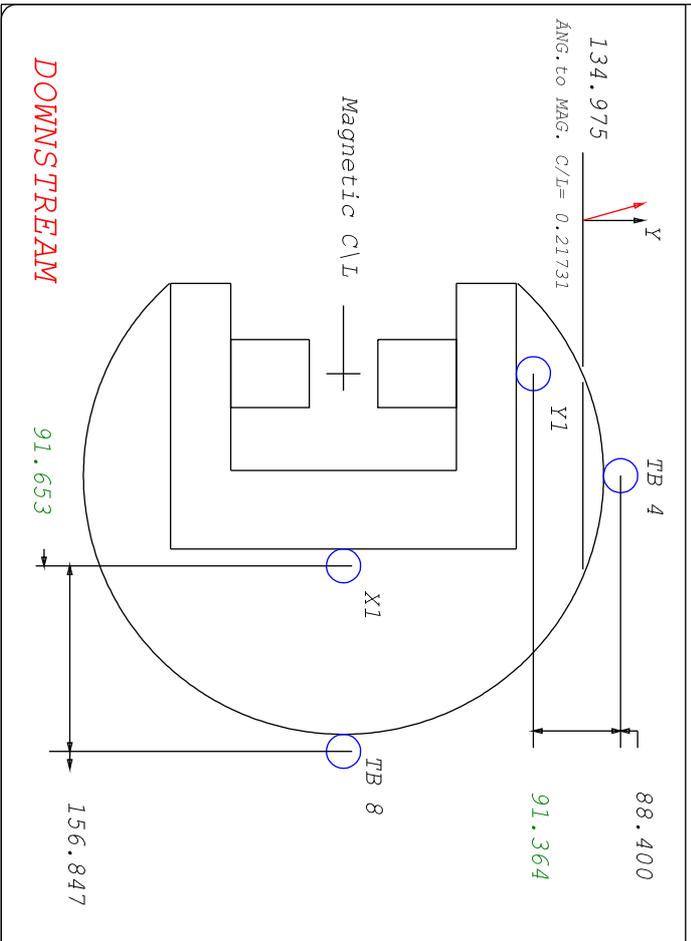
TOOLING BALL LOCATIONS

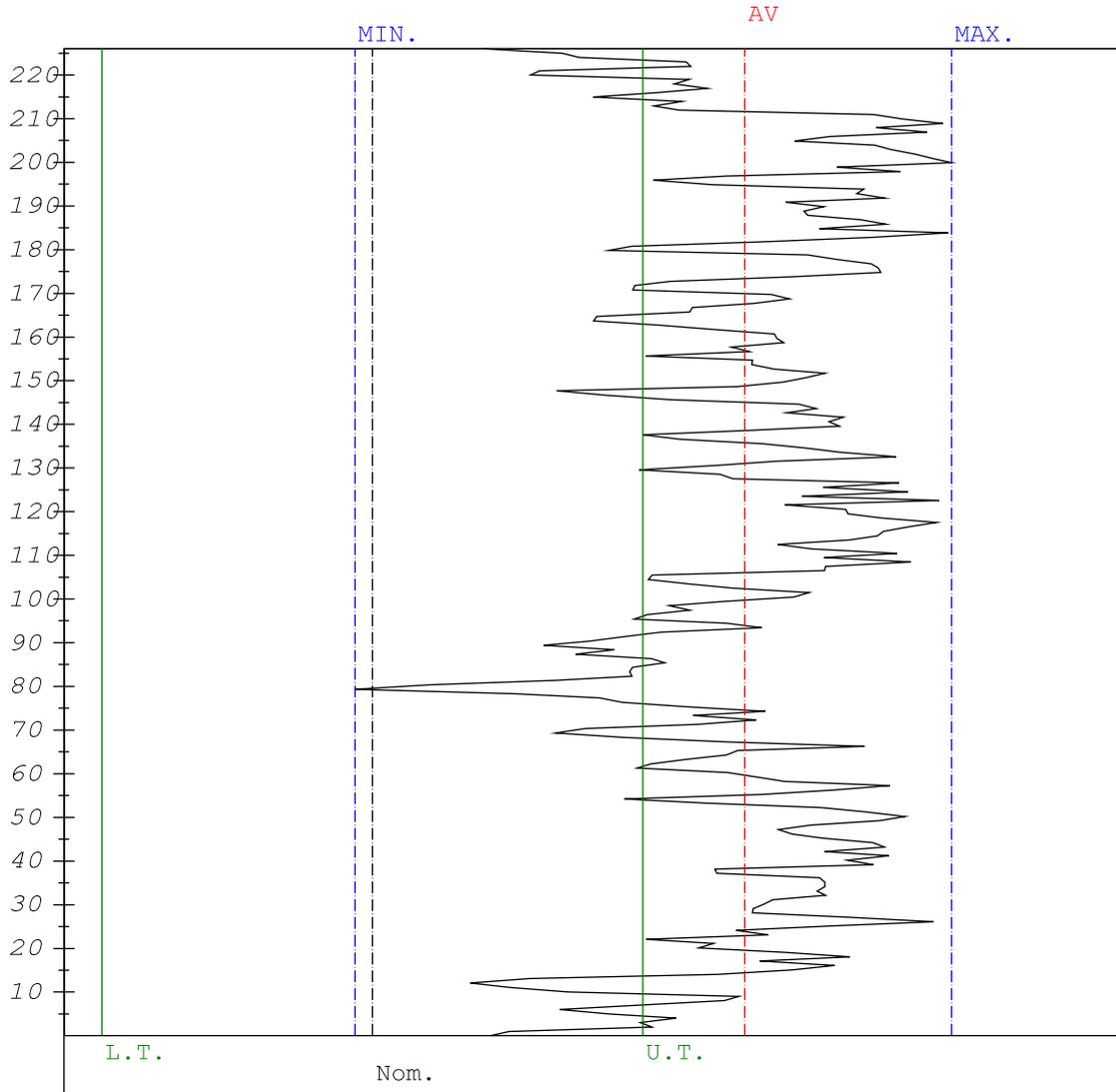
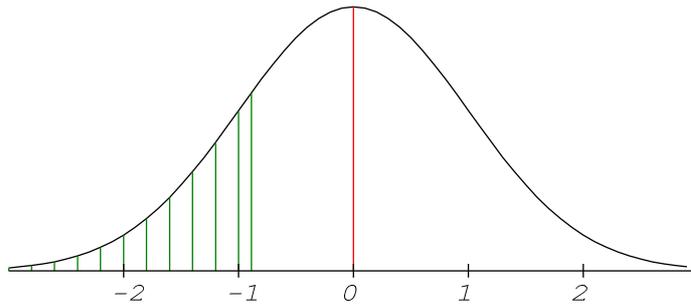
NUM.	X	Y	Z
1	0.2909	179.7690	-1558.405
2	0.1091	179.7385	-584.6792
3	0.1537	179.6989	591.3066
4	0.0975	179.7640	1562.1508
5	248.6092	-0.0416	-1558.126
6	248.4550	0.0912	-584.6011
7	248.4062	0.0618	591.3772
8	248.4998	-0.0382	1562.2360

	C/L Offset	Length
Top Magnetic Structure	-0.010	3380.970
Bottom Magnetic Structure	0.010	3381.027
Strongback	0.394	3399.803

Dimensions in mm

Angles in mrad





Nominal : 4.5000	Averag : 5.1888	Cent.-Dev. : 0.6888
Up. Tol. : 0.5	Maximum : 5.5710	U.Tol.Ex. > : 81.3 %
Low.Tol. : -0.5	Minimum : 4.4684	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2123	In Tolerance: 18.7 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

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PROGRAM VERSION 2.9