

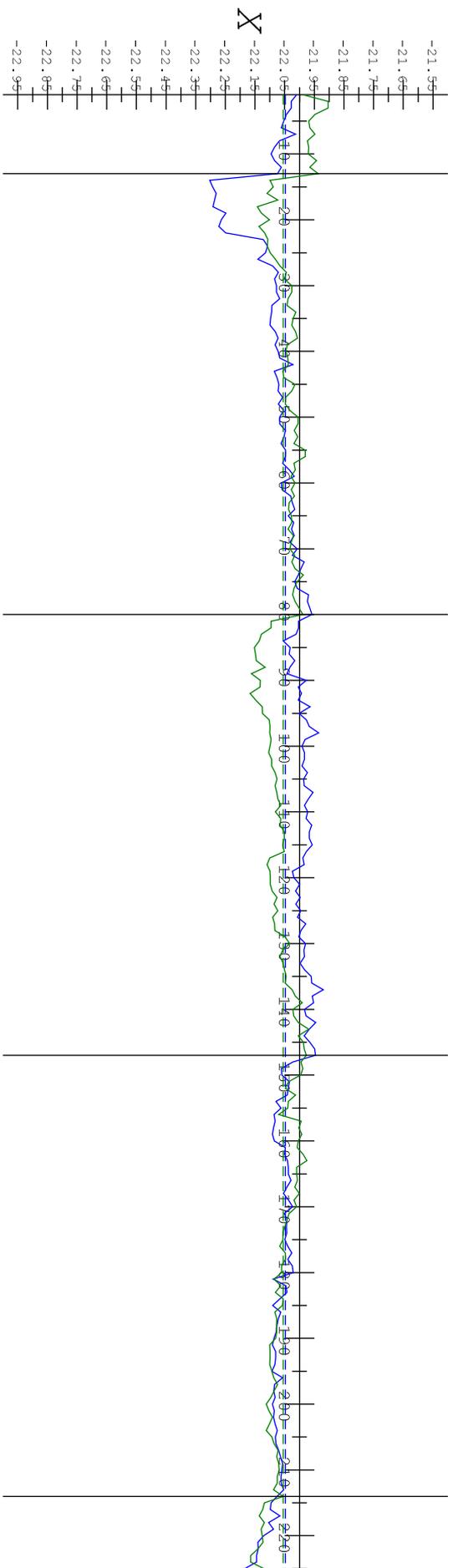
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 05-OCT-2009
 UNDUULATOR # 06
 DATASET # 0003
 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 = -22.055

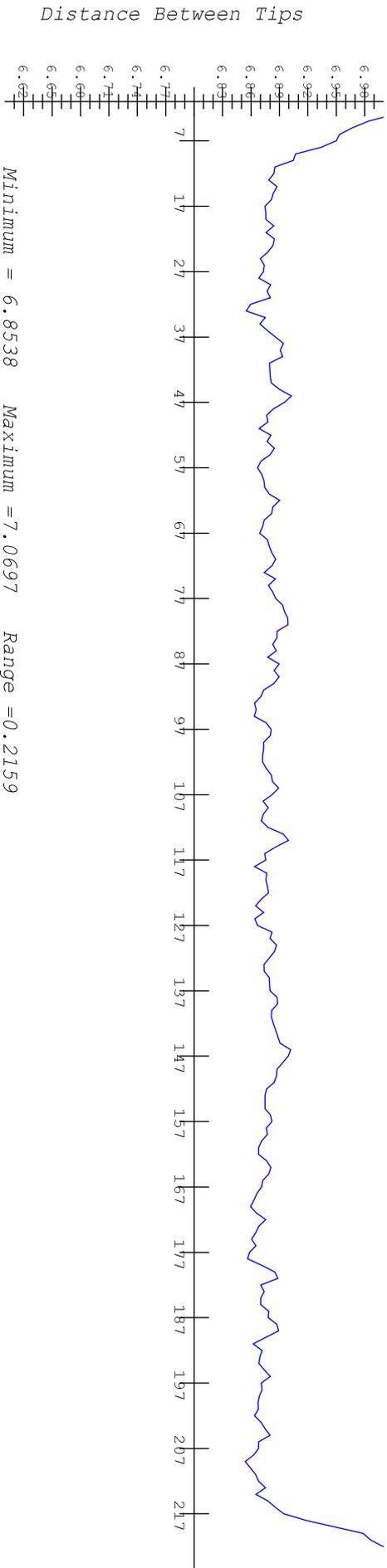
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.048



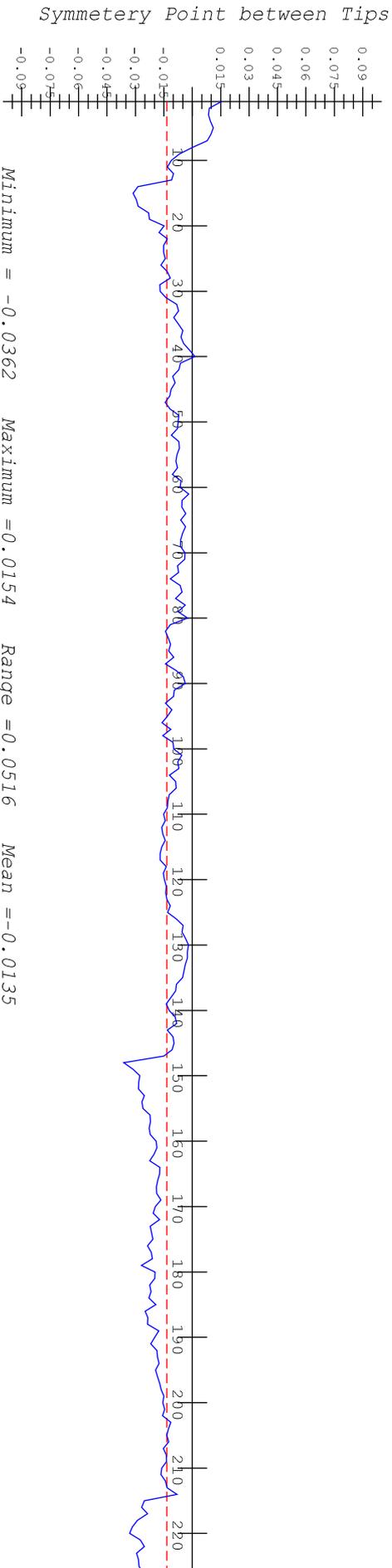
Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 05-OCT-2009
UNDULATOR # 06
DATASET # 0003
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

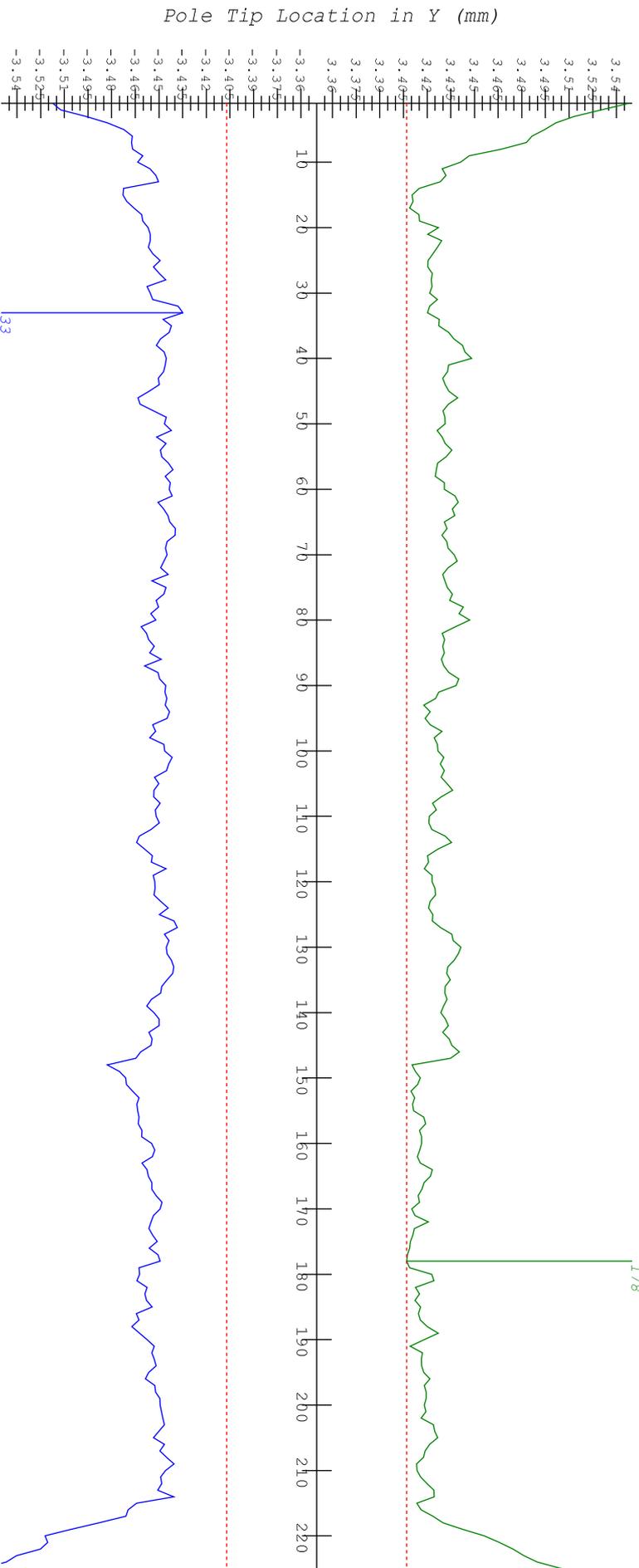


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8143

Minimum = 3.4071 Maximum = 3.5482 Range = 0.1410



Minimum = -3.5617 Maximum = -3.4348 Range = 0.1268

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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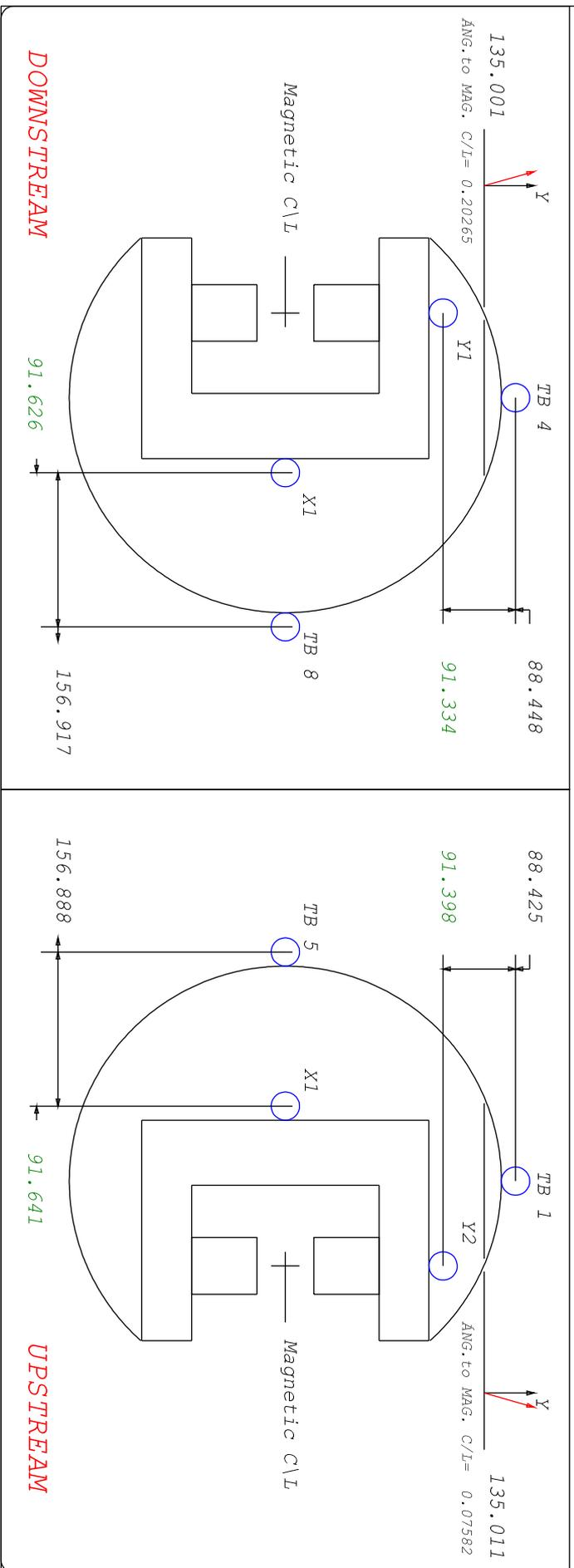
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1956	179.8228	-1558.430
2	0.2314	179.7554	-584.8320
3	0.2153	179.7423	591.1238
4	0.2380	179.7824	1562.0939
5	248.5292	0.0442	-1558.414
6	248.5834	-0.0257	-584.7378
7	248.6358	0.0559	591.3138
8	248.5434	0.0719	1562.1189

	C/L Offset	Length
Top Magnetic Structure	-0.058	3381.207
Bottom Magnetic Structure	0.058	3380.968
Strongback	0.207	3399.961

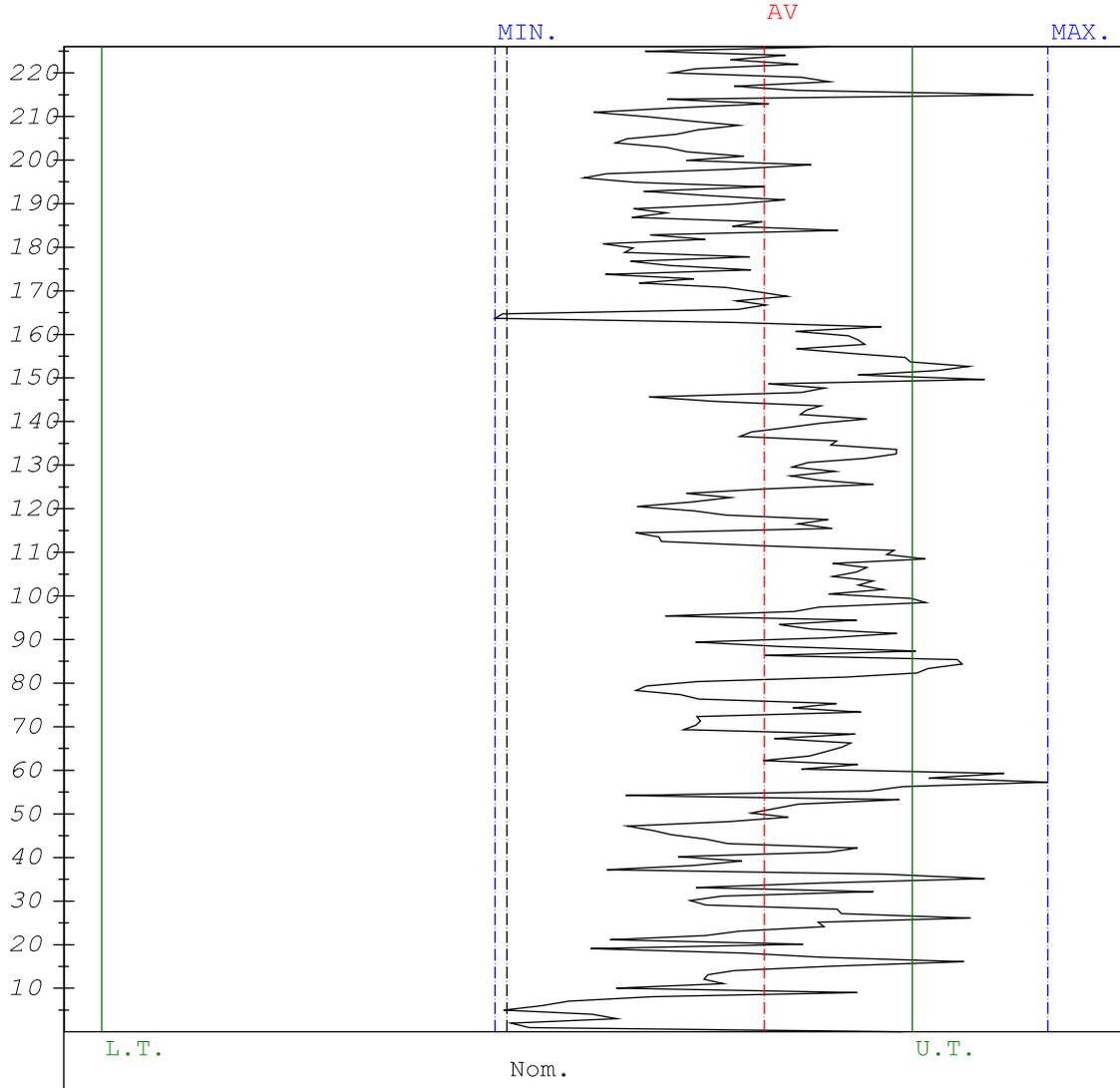
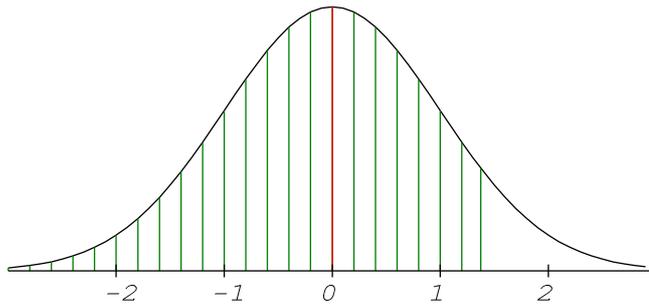
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 05-OCT-2009
UNDULATOR # 06
DATASET # 0003
PROGRAM VERSION 2.9



Nominal : 4.5000	Averag : 4.8174	Cent.-Dev. : 0.3174
Up. Tol. : 0.5	Maximum : 5.1674	U.Tol.Ex. > : 8.5 %
Low.Tol. : -0.5	Minimum : 4.4851	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1329	In Tolerance: 91.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

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DATASET # 0003
PROGRAM VERSION 2.9