

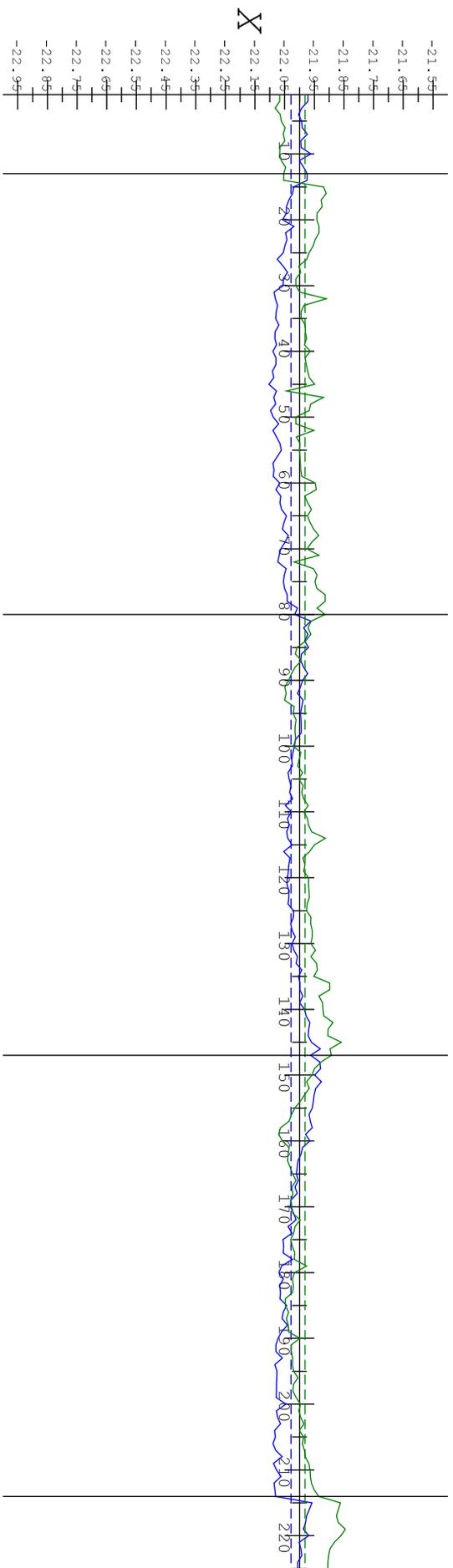
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

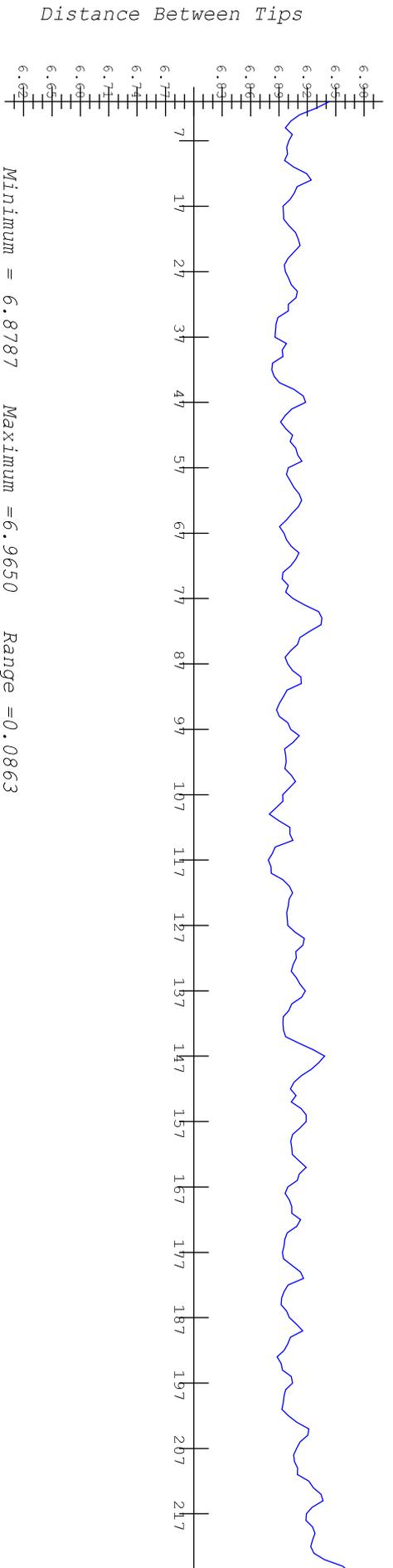
DATE: 24-MAR-2009
 UNDULATOR #22
 DATASET #0002
 PROGRAM VERSION 2.9

Pole Tip Number ----->



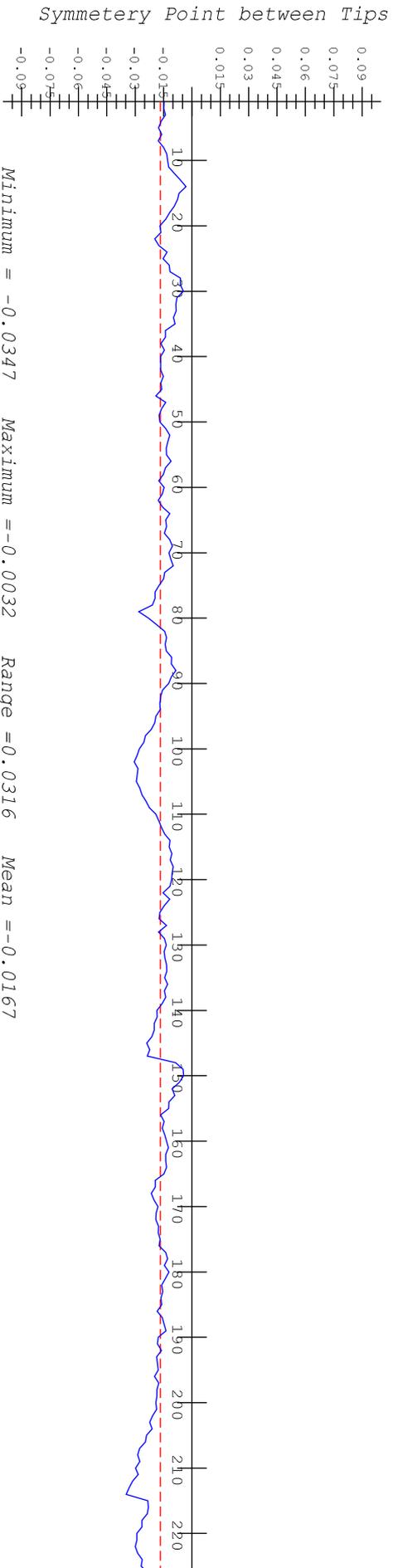
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 24-MAR-2009
 UNDUULATOR #22
 DATASET #0002
 PROGRAM VERSION 2.9



in mm

Pole Tip Number ----->



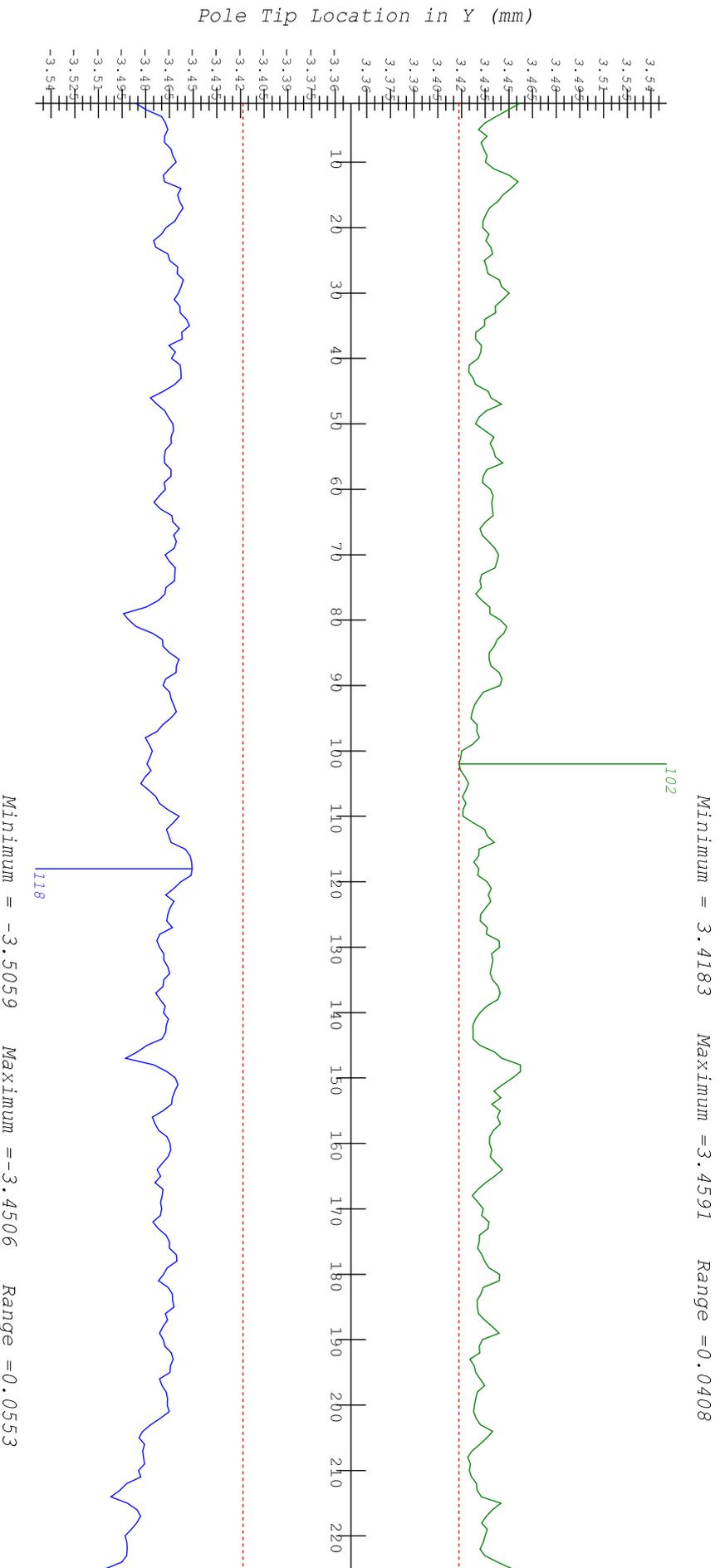
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L



Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8367



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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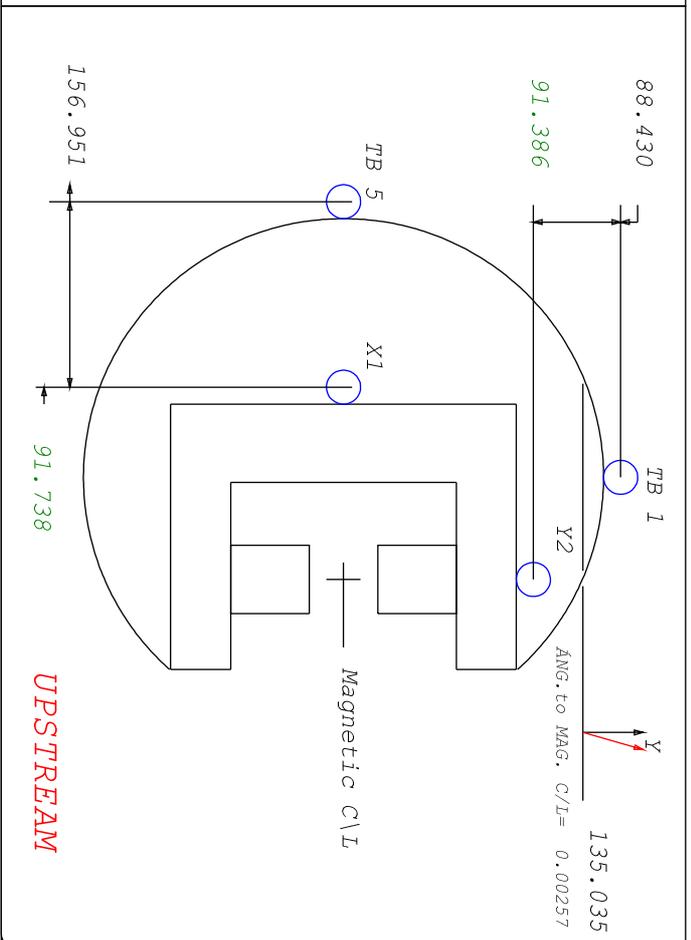
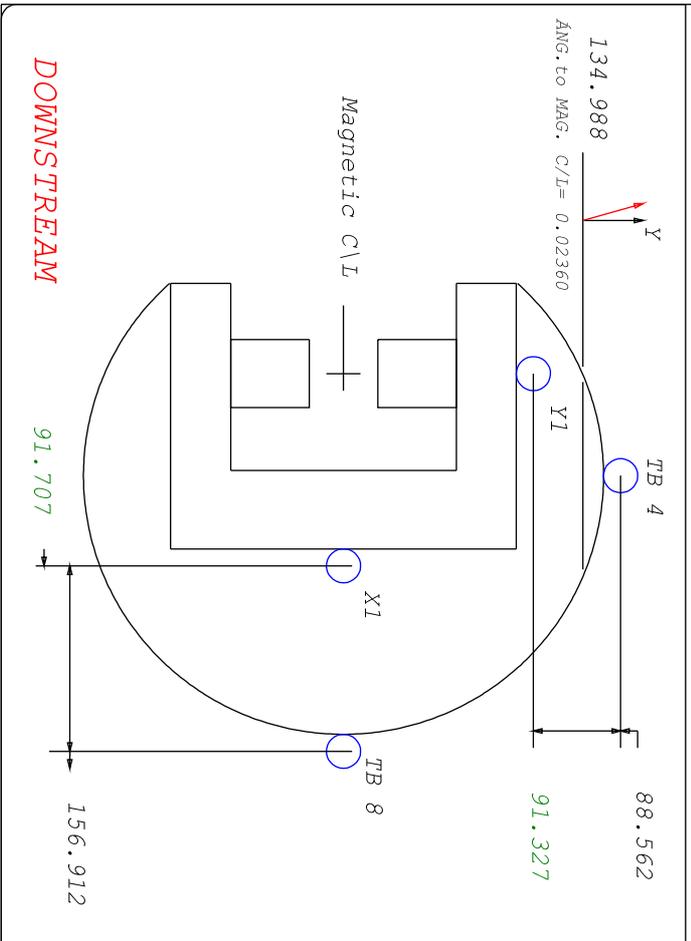
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2608	179.8157	-1558.311
2	0.2744	179.7565	-584.7168
3	0.3965	179.7868	591.2700
4	0.3762	179.8891	1562.0864
5	248.6890	-0.0015	-1558.349
6	248.6784	-0.0128	-584.7537
7	248.7324	-0.0238	591.2594
8	248.6192	-0.0289	1562.0949

	C/L Offset	Length
Top Magnetic Structure	0.077	3381.088
Bottom Magnetic Structure	-0.077	3380.926
Strongback	0.241	3399.999

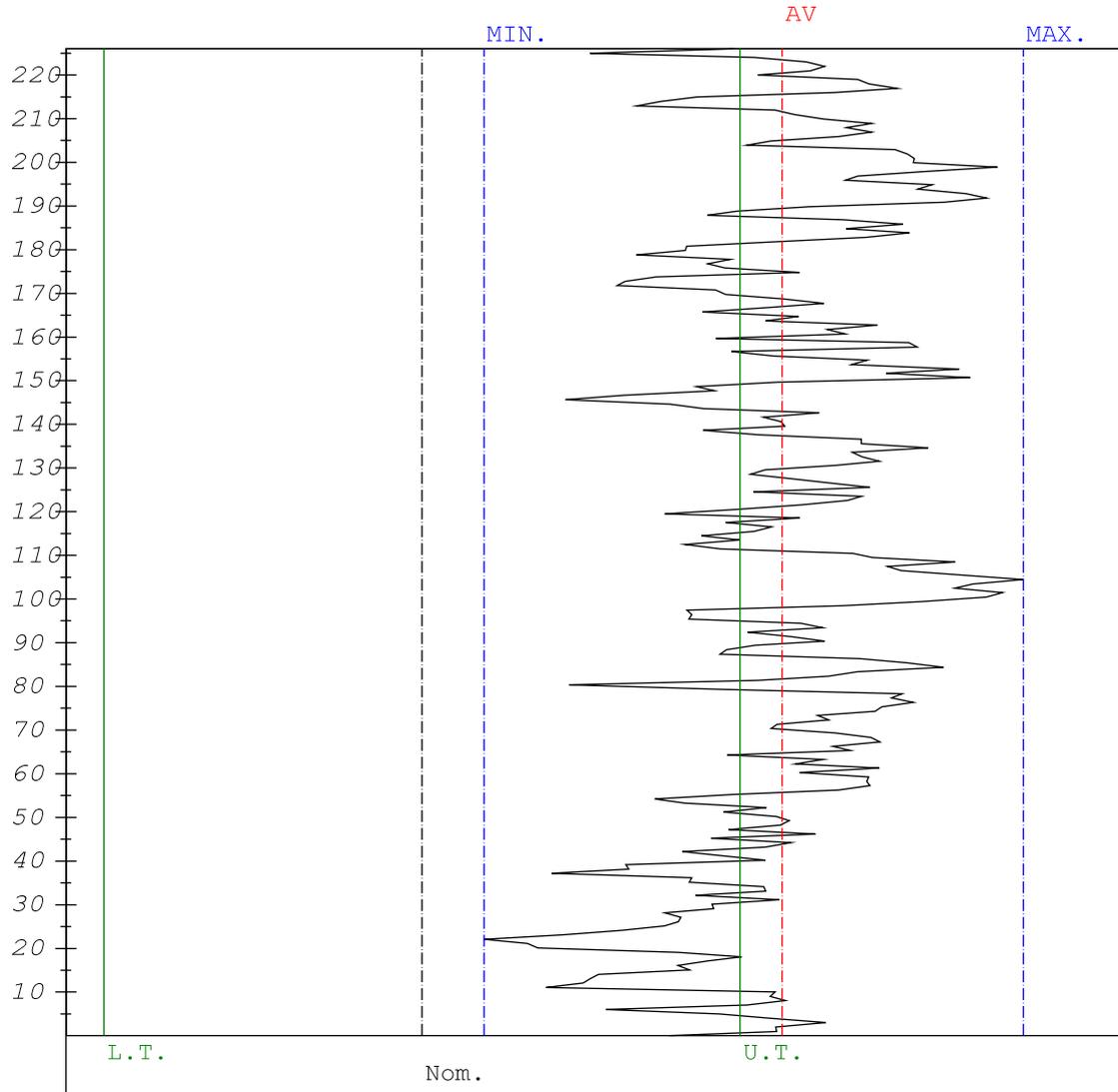
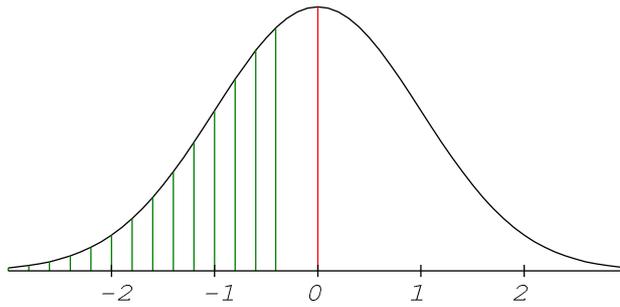
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.0664	Cent.-Dev. : 0.5664
Up. Tol. : 0.5	Maximum : 5.4456	U.Tol.Ex. > : 65.9 %
Low.Tol. : -0.5	Minimum : 4.5977	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1621	In Tolerance: 34.1 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE: 24-MAR-2009

UNDULATOR #22
DATASET #0002

PROGRAM VERSION 2.9