

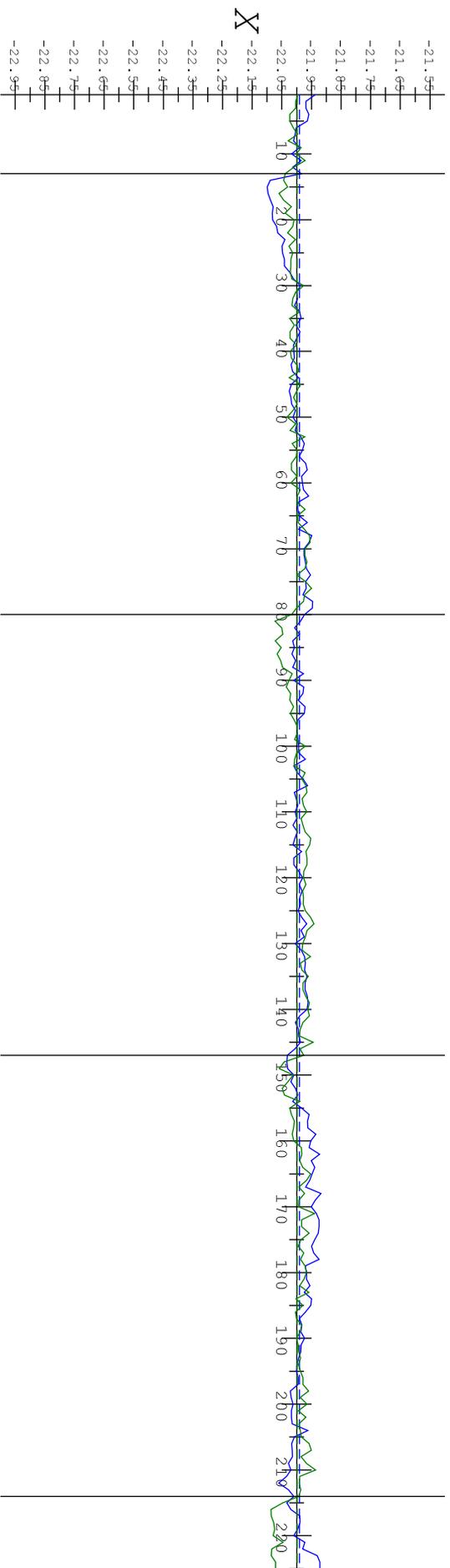
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

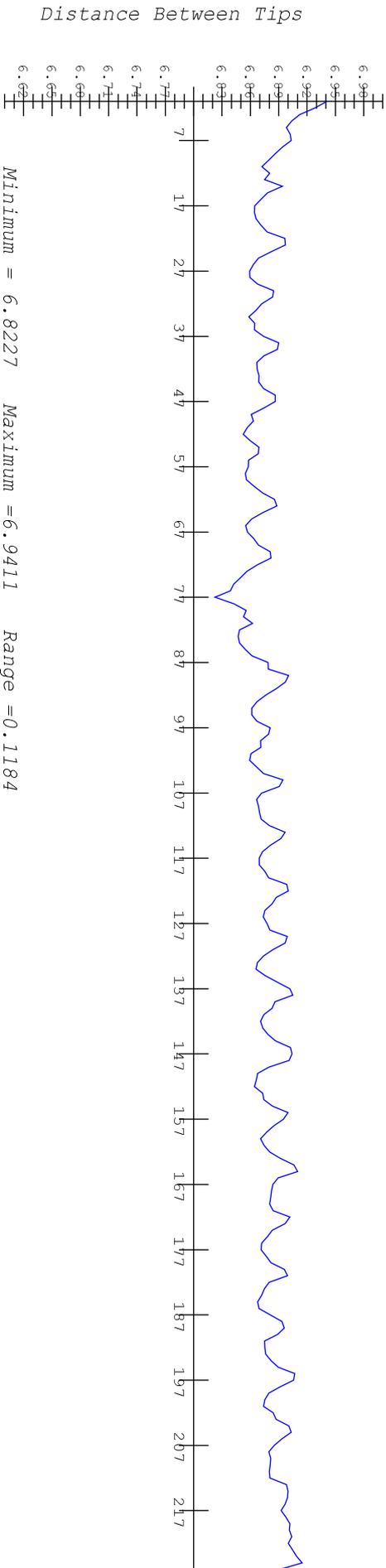
DATE: 02-JUN-2011
 UNDUULATOR # 37
 DATASET # 0005
 PROGRAM VERSION 2.9

Pole Tip Number ----->



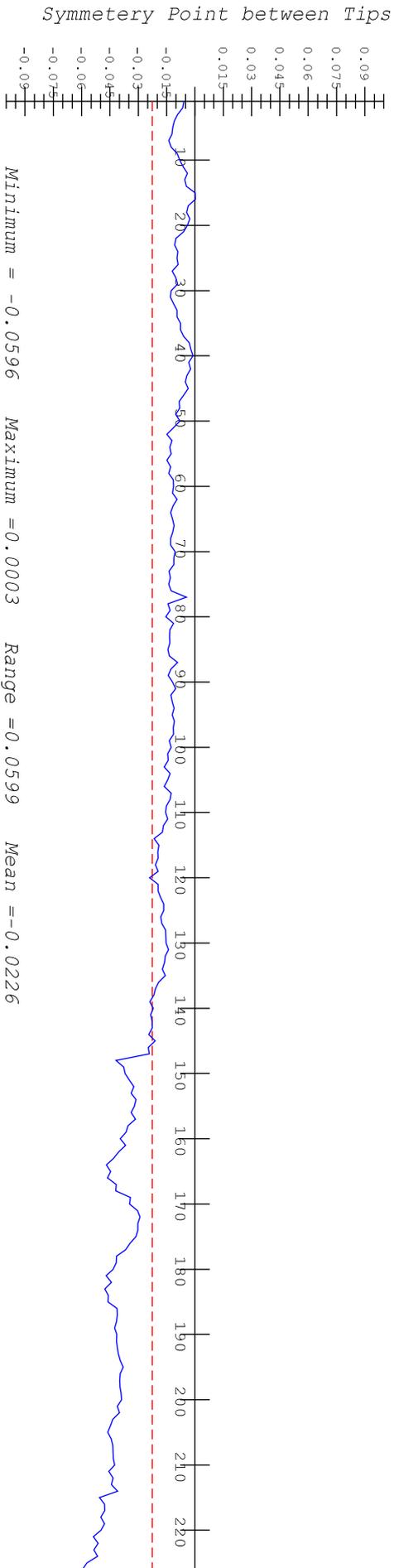
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 02-JUN-2011
 UNDUULATOR # 37
 DATASET # 0005
 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

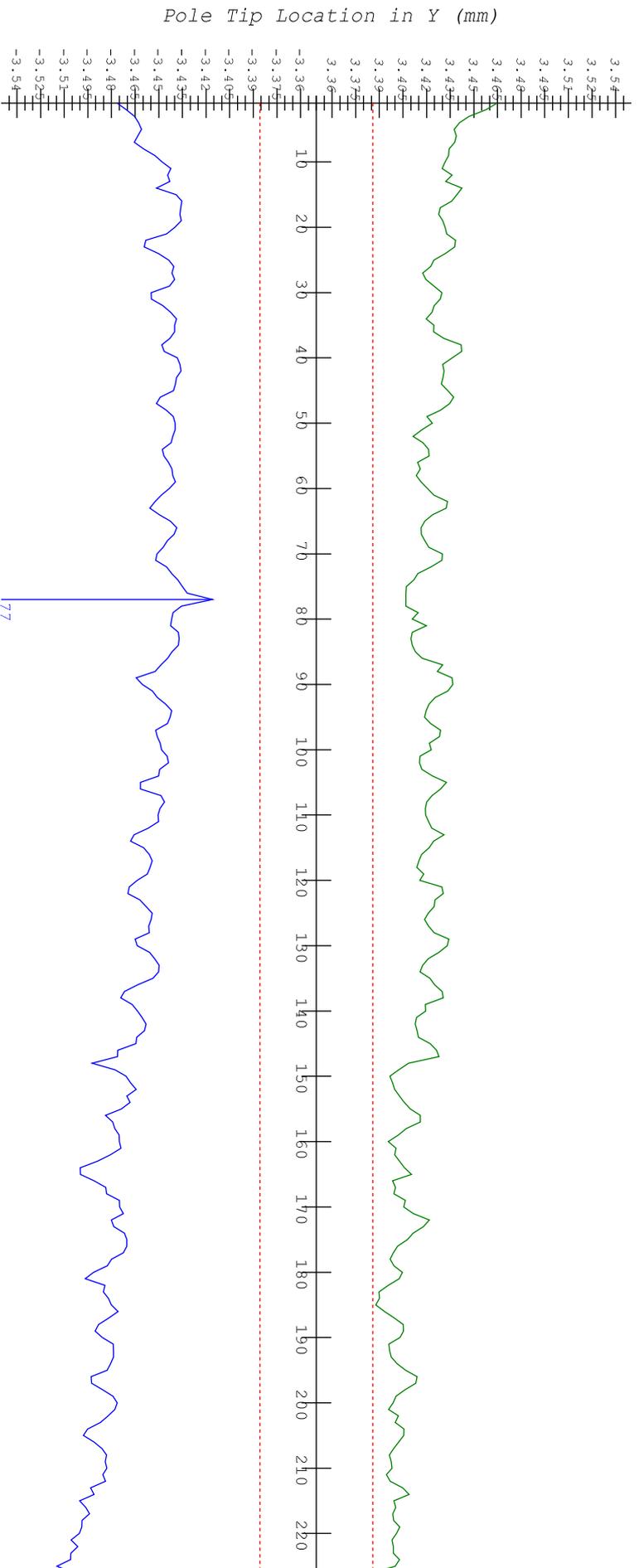


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 02-JUN-2011
 UNDUULATOR # 37
 DATASET # 0005
 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.7717

Minimum = 3.3859 Maximum = 3.4647 Range = 0.0789



Minimum = -3.5147 Maximum = -3.4159 Range = 0.0988

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: 02-JUN-2011
UNDULATOR # 37
DATASET # 0005
PROGRAM VERSION 2.9



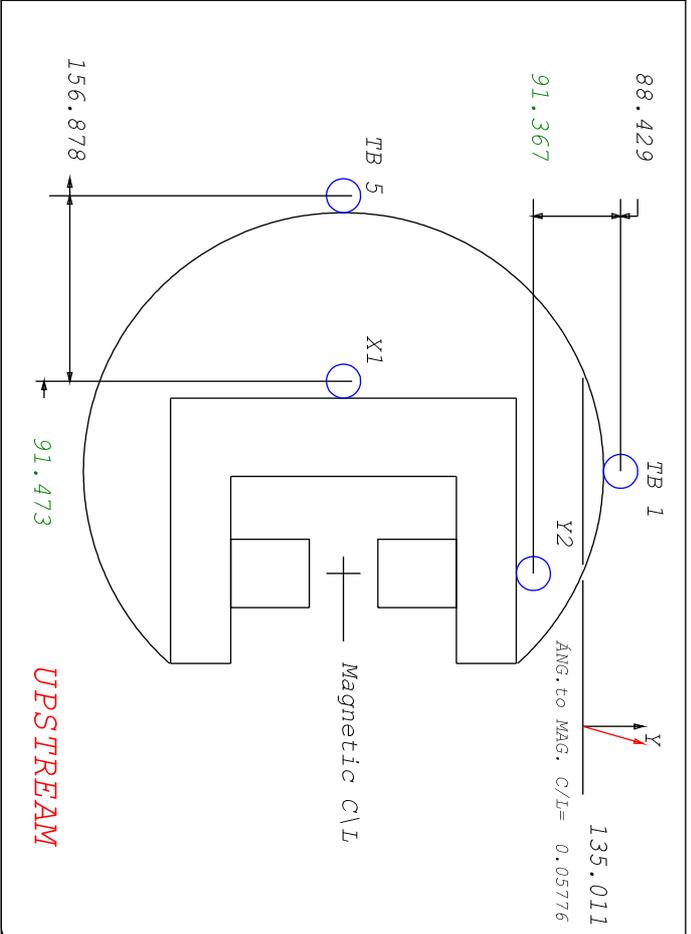
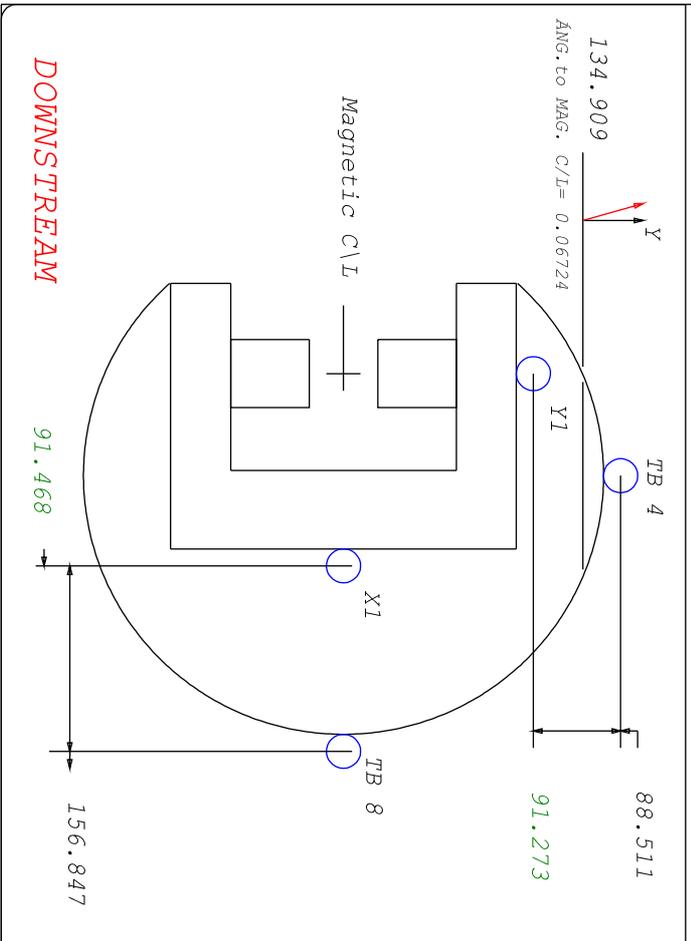
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0856	179.7965	-1558.355
2	0.2844	179.8810	-584.7290
3	-0.0415	179.7158	591.3561
4	0.2250	179.7839	1562.2337
5	248.3505	0.0058	-1558.258
6	248.2847	0.0363	-584.6942
7	248.3106	-0.0969	591.3904
8	248.3146	-0.1706	1562.0953

	C/L Offset	Length
Top Magnetic Structure	0.015	3381.082
Bottom Magnetic Structure	-0.015	3381.014
Strongback	0.391	3399.952

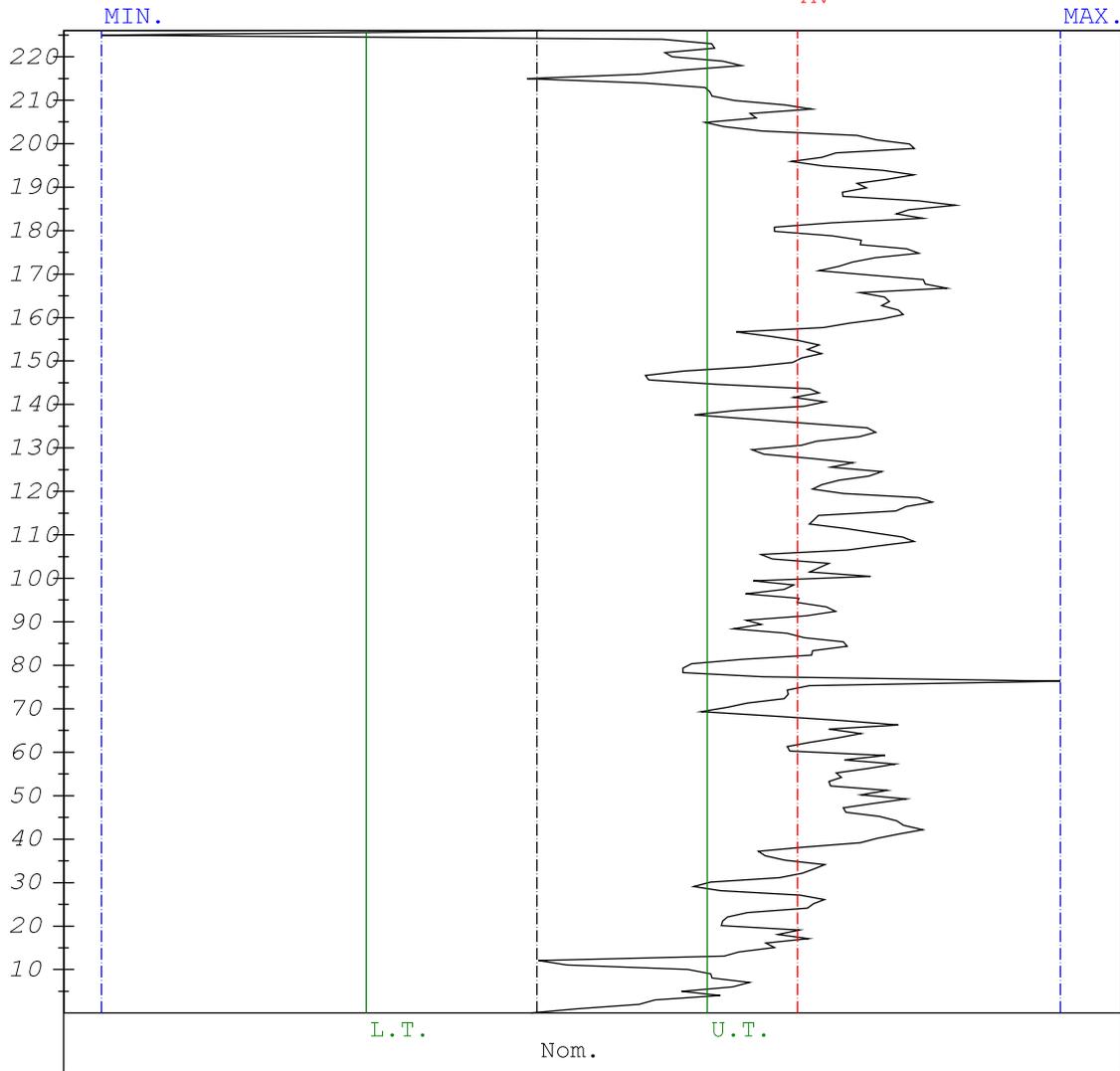
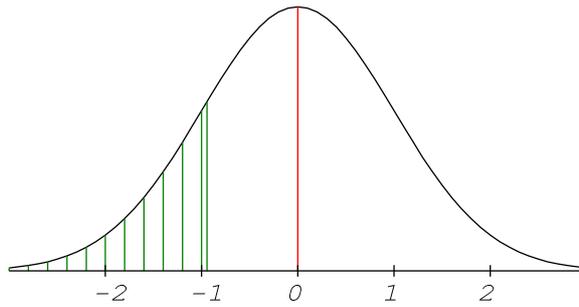
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization Post Magnetic Alignment

DATE: 02-JUN-2011
 UNDULATOR # 37
 DATASET # 0005
 PROGRAM VERSION 2.9



Nominal : 4.5000	Averag : 5.2645	Cent.-Dev. : 0.7645
Up. Tol. : 0.5	Maximum : 6.0353	U.Tol.Ex. > : 82.7 %
Low.Tol. : -0.5	Minimum : 3.2236	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2805	In Tolerance: 17.3 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

DATE: 02-JUN-2011
 UNDULATOR # 37
 DATASET # 0005
 PROGRAM VERSION 2.9