

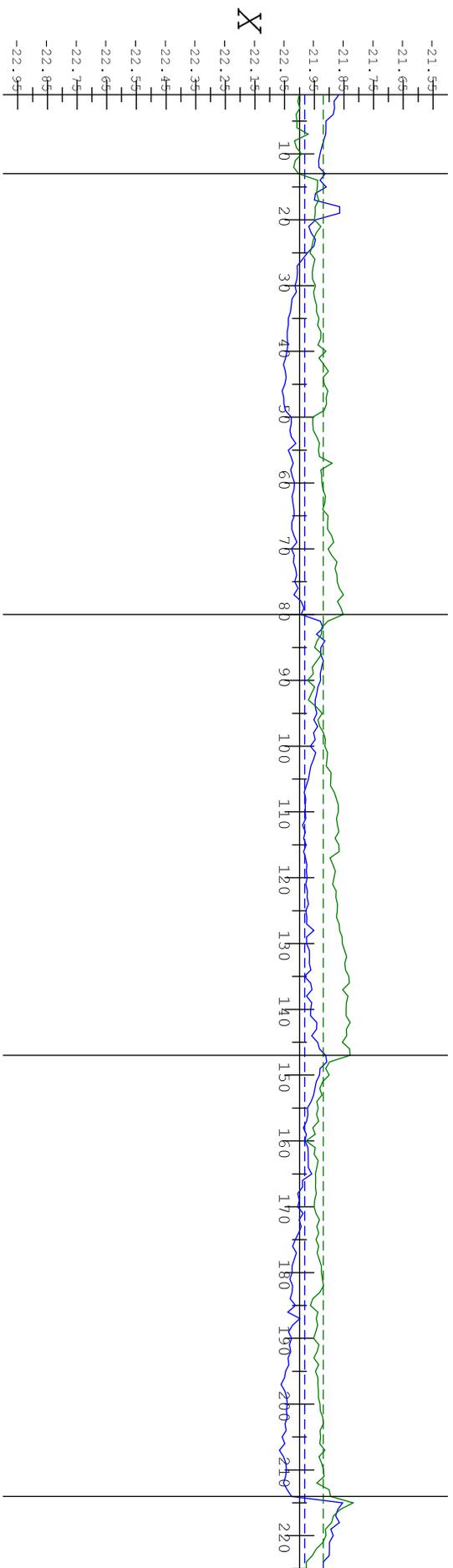
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

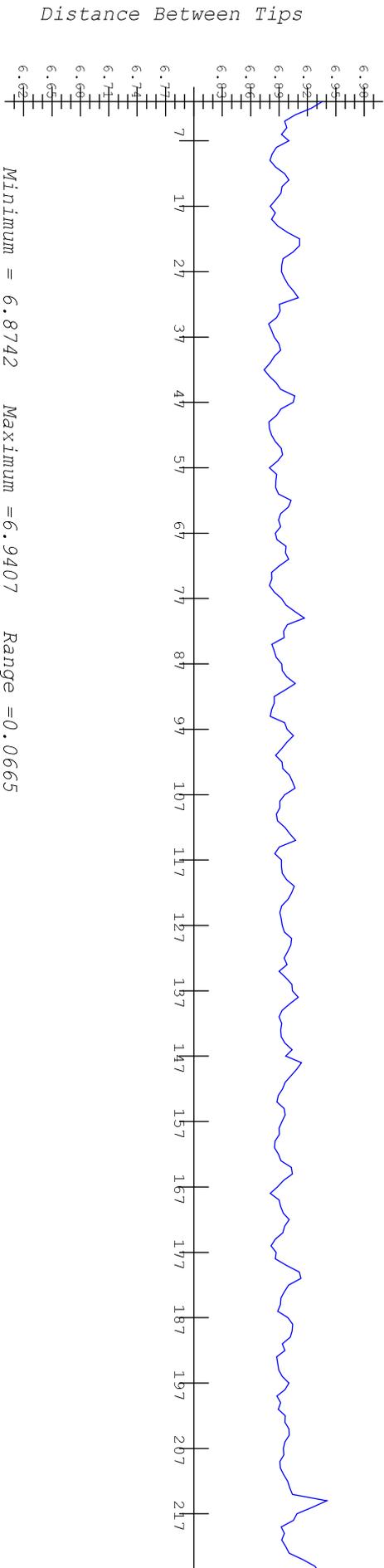
DATE: 11-MAY-2009
 UNDUULATOR # 30
 DATASET # 0003
 PROGRAM VERSION 2.9

Pole Tip Number ----->



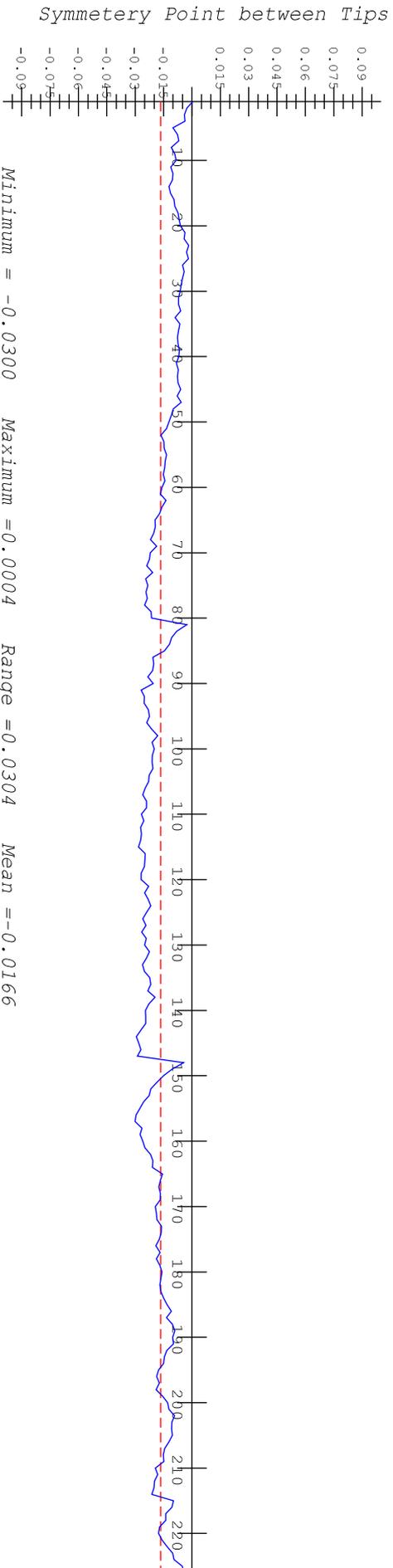
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 11-MAY-2009
 UNDUULATOR # 30
 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

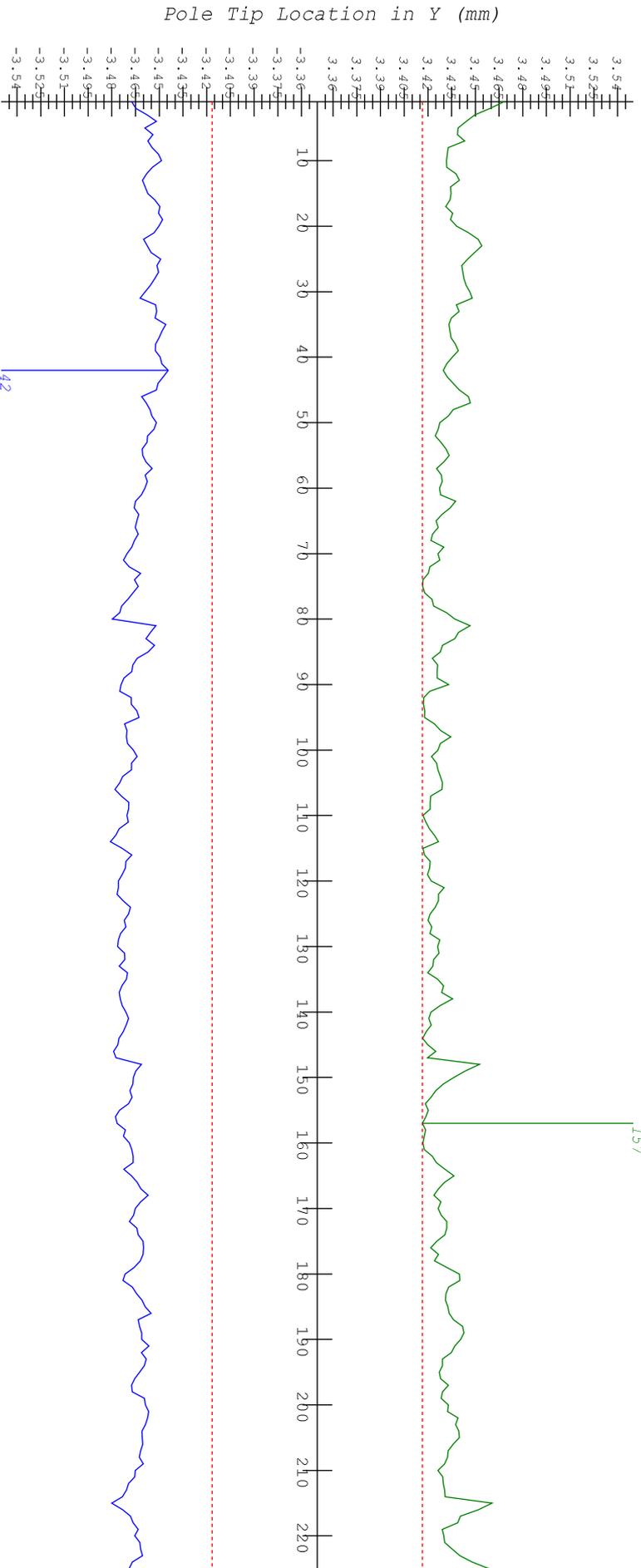


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 11-MAY-2009
 UNDUULATOR # 30
 DATASET # 0003
 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.8331

Minimum = 3.4166 Maximum = 3.4682 Range = 0.0516



Minimum = -3.4809 Maximum = -3.4444 Range = 0.0365

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: 11-MAY-2009
UNDULATOR # 30
DATASET # 0003
PROGRAM VERSION 2.9



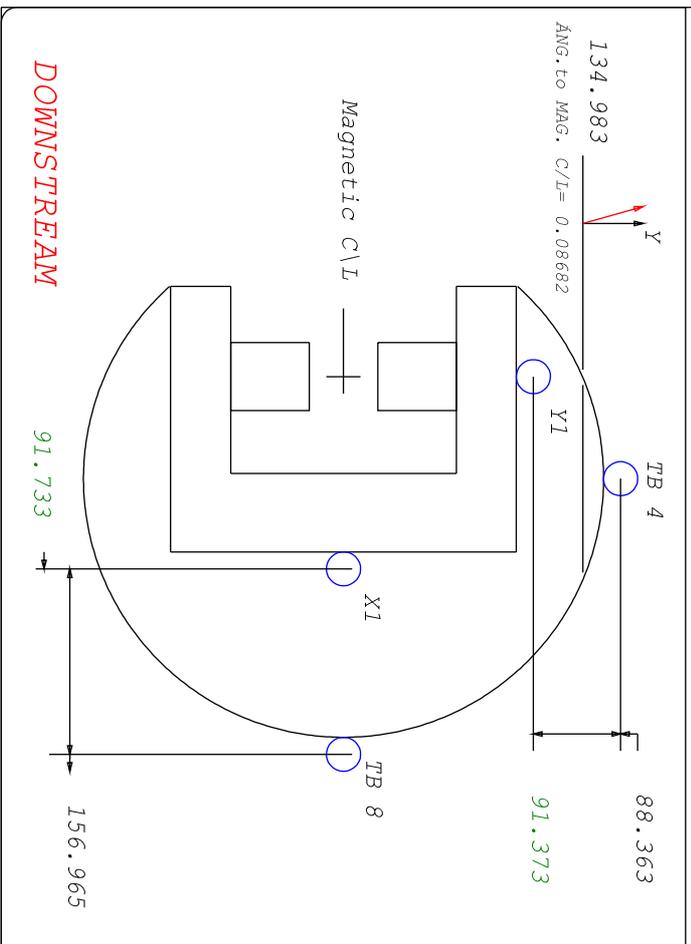
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.3369	179.8590	-1558.247
2	0.4887	179.6895	-584.6450
3	0.5368	179.6930	591.3118
4	0.5002	179.7357	1562.1789
5	248.5860	0.1514	-1558.352
6	248.6732	0.1014	-584.6476
7	248.7441	0.1143	591.3510
8	248.6985	0.0534	1562.2674

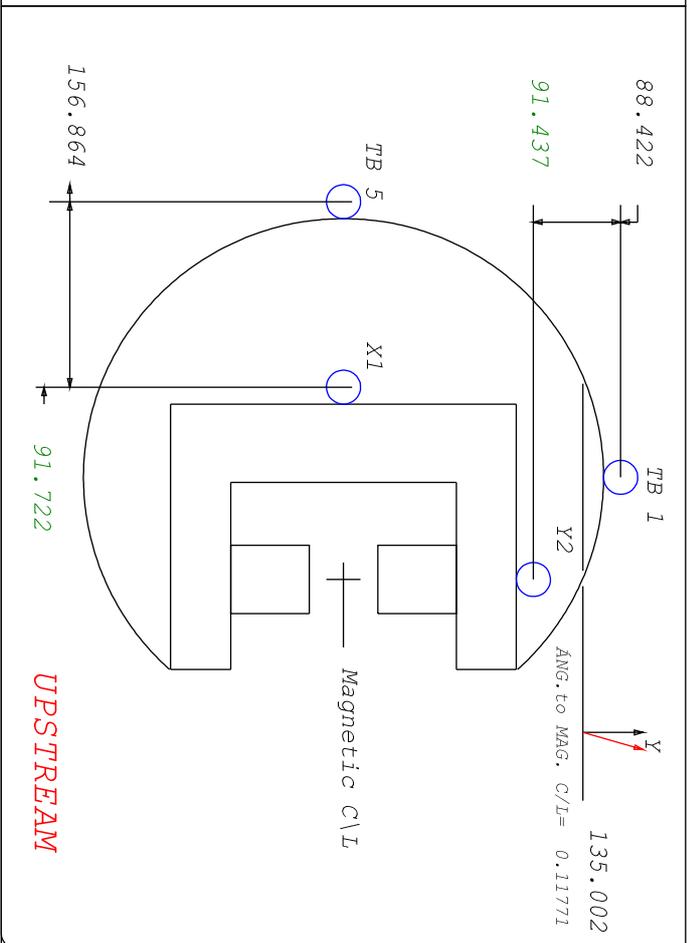
	C/L Offset	Length
Top Magnetic Structure	0.000	3381.049
Bottom Magnetic Structure	0.000	3381.043
Strongback	0.354	3400.076

Dimensions in mm

Angles in mrad



DOWNSTREAM

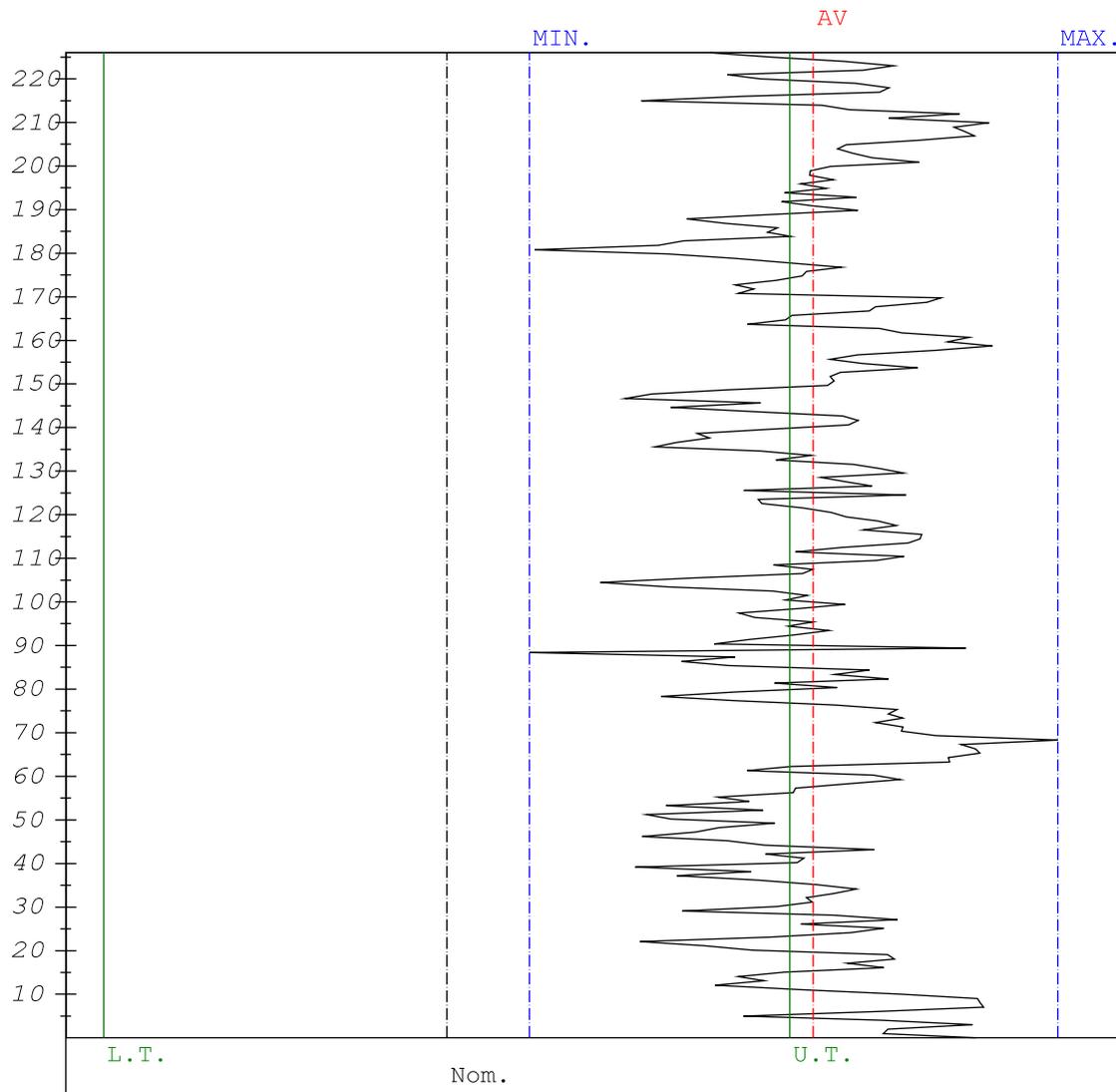
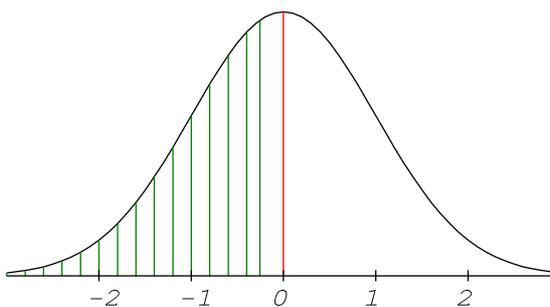


UPSTREAM



Undulator Dimensional Fiducialization Post Magnetic Alignment

DATE: 11-MAY-2009
 UNDUULATOR # 30
 DATASET # 0003
 PROGRAM VERSION 2.9



Nominal : 4.5000	Averag : 5.0342	Cent.-Dev. : 0.5342
Up. Tol. : 0.5	Maximum : 5.3905	U.Tol.Ex. > : 60.1 %
Low.Tol. : -0.5	Minimum : 4.6203	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1341	In Tolerance: 39.9 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE: 11-MAY-2009

UNDULATOR # 30
DATASET # 0003

PROGRAM VERSION 2.9