

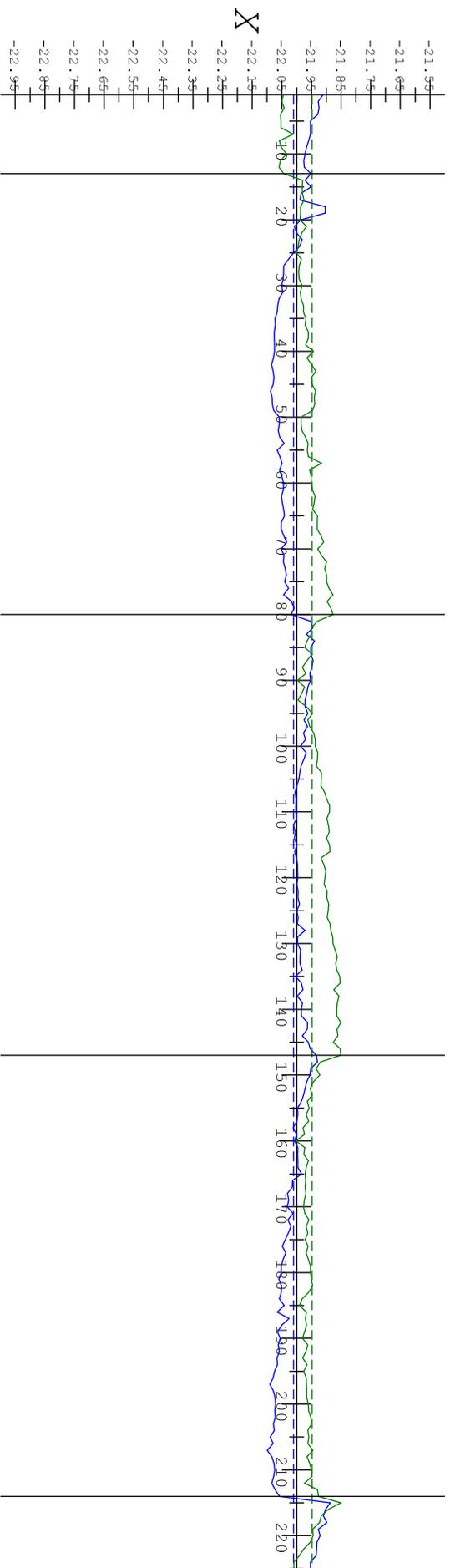
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

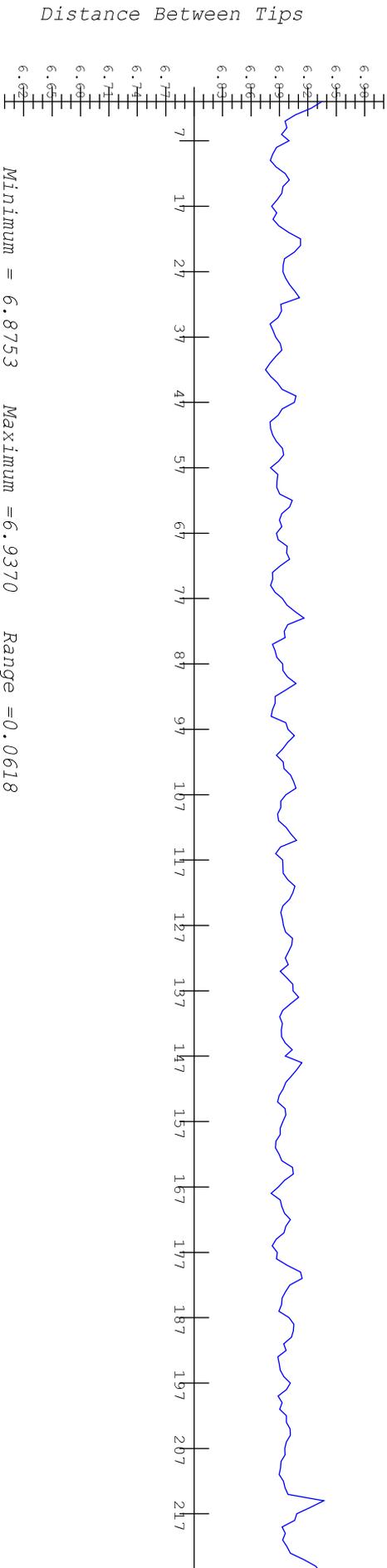
DATE: 17-AUG-2011
 UNDUULATOR # 30
 DATASET # 0004
 PROGRAM VERSION 2.9

Pole Tip Number ----->



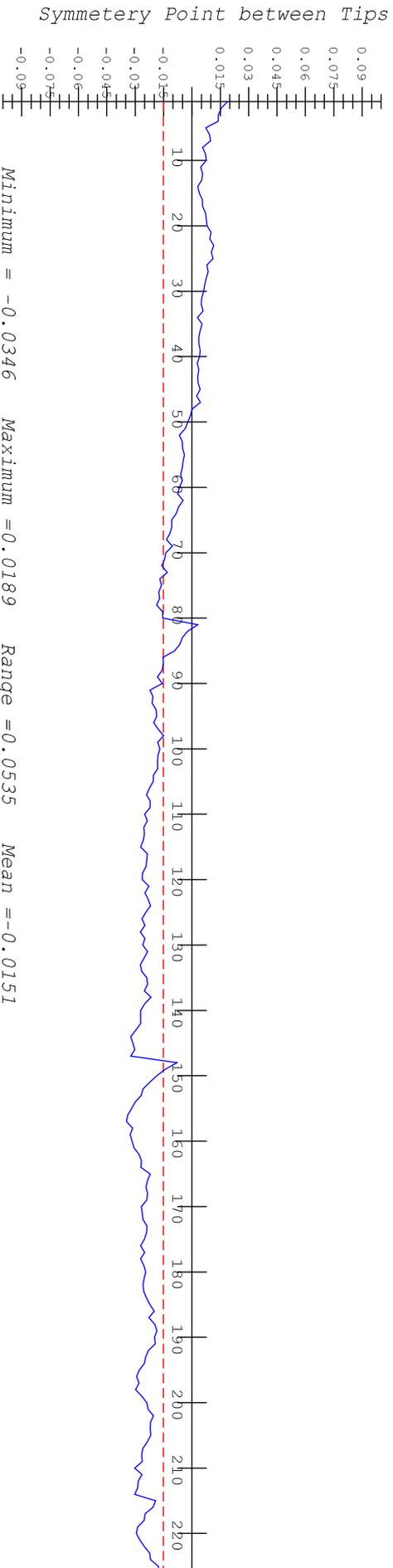
Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 17-AUG-2011
 UNDUULATOR # 30
 DATASET # 0004
 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

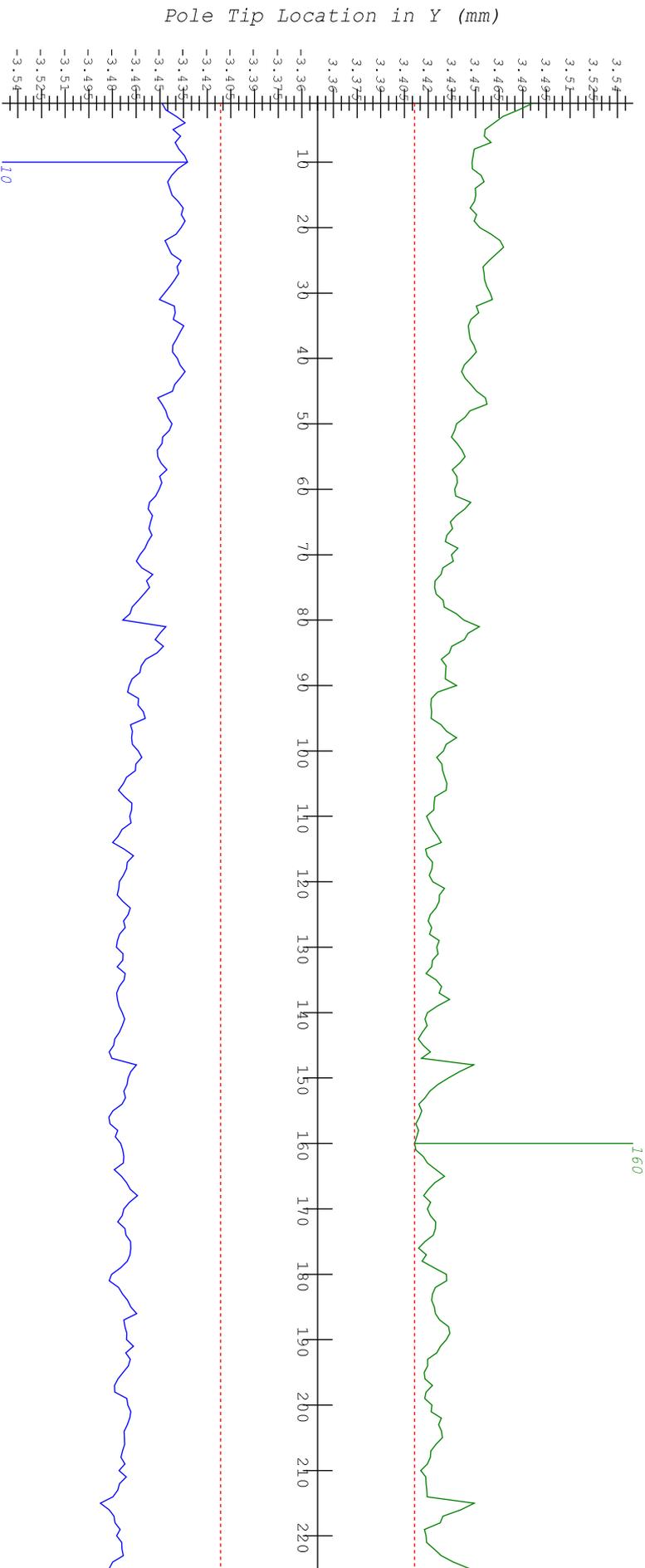


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8230

Minimum = 3.4115 Maximum = 3.4863 Range = 0.0748



Minimum = -3.4878 Maximum = -3.4326 Range = 0.0552

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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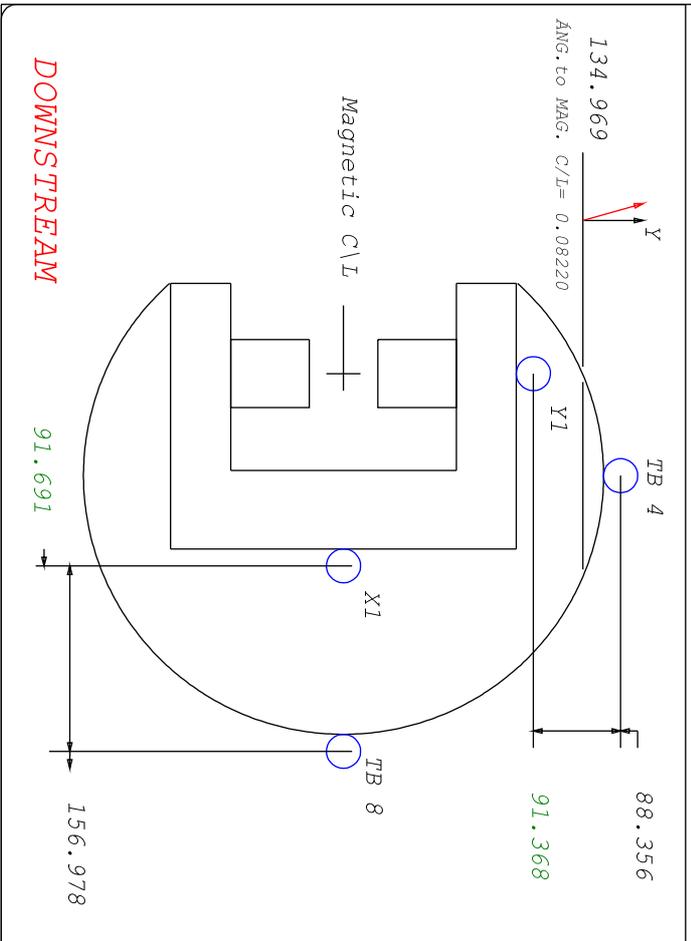
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2988	179.8743	-1558.240
2	0.4651	179.6951	-584.6426
3	0.5192	179.6873	591.3062
4	0.4731	179.7238	1562.1742
5	248.5478	0.1647	-1558.350
6	248.6512	0.1046	-584.6479
7	248.7251	0.0982	591.3593
8	248.6687	0.0392	1562.2668

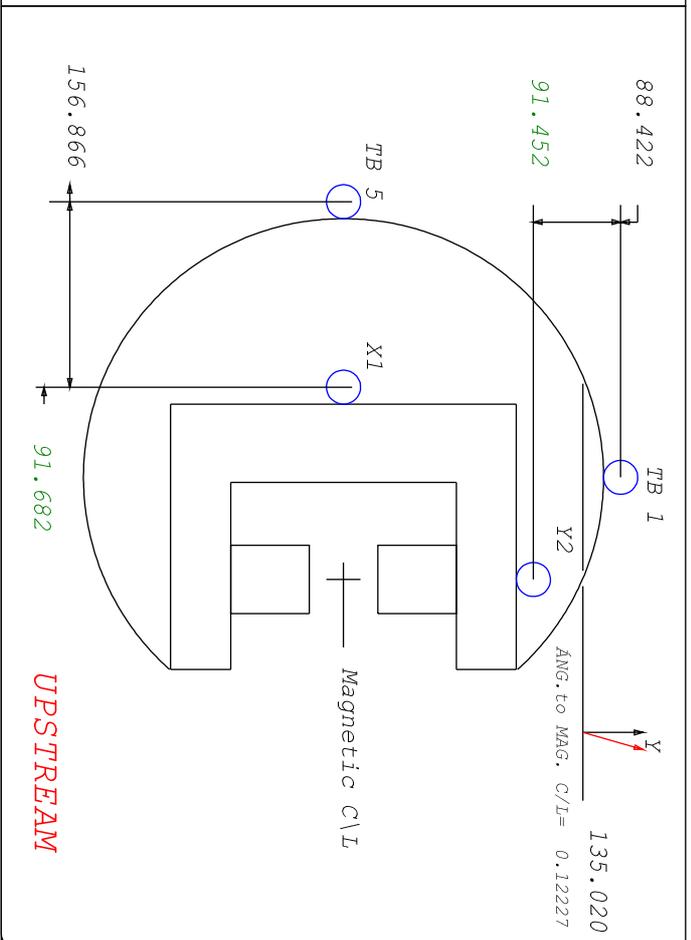
	C/L Offset	Length
Top Magnetic Structure	0.000	3381.032
Bottom Magnetic Structure	0.000	3381.026
Strongback	0.354	3400.057

Dimensions in mm

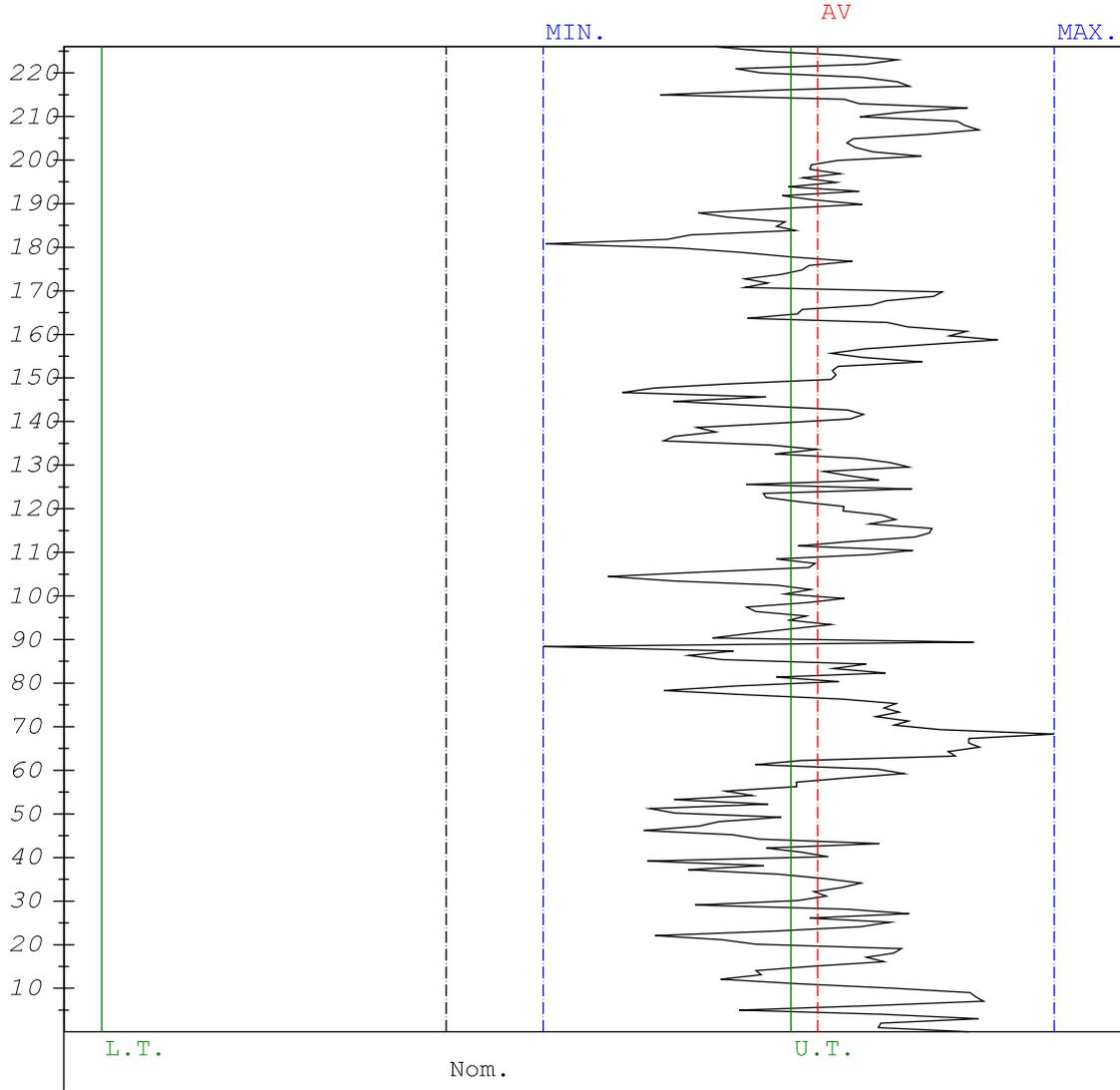
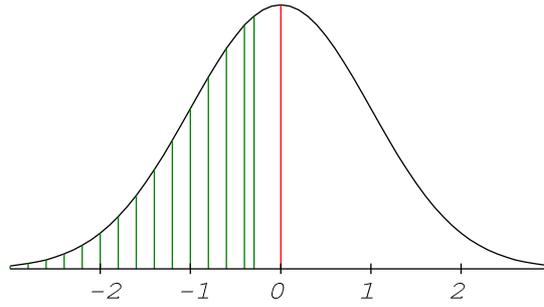
Angles in mrad



DOWNSTREAM



UPSTREAM



Nominal : 4.5000	Averag : 5.0386	Cent.-Dev. : 0.5386
Up. Tol. : 0.5	Maximum : 5.3822	U.Tol.Ex. > : 61.6 %
Low.Tol. : -0.5	Minimum : 4.6403	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1306	In Tolerance: 38.4 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

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