

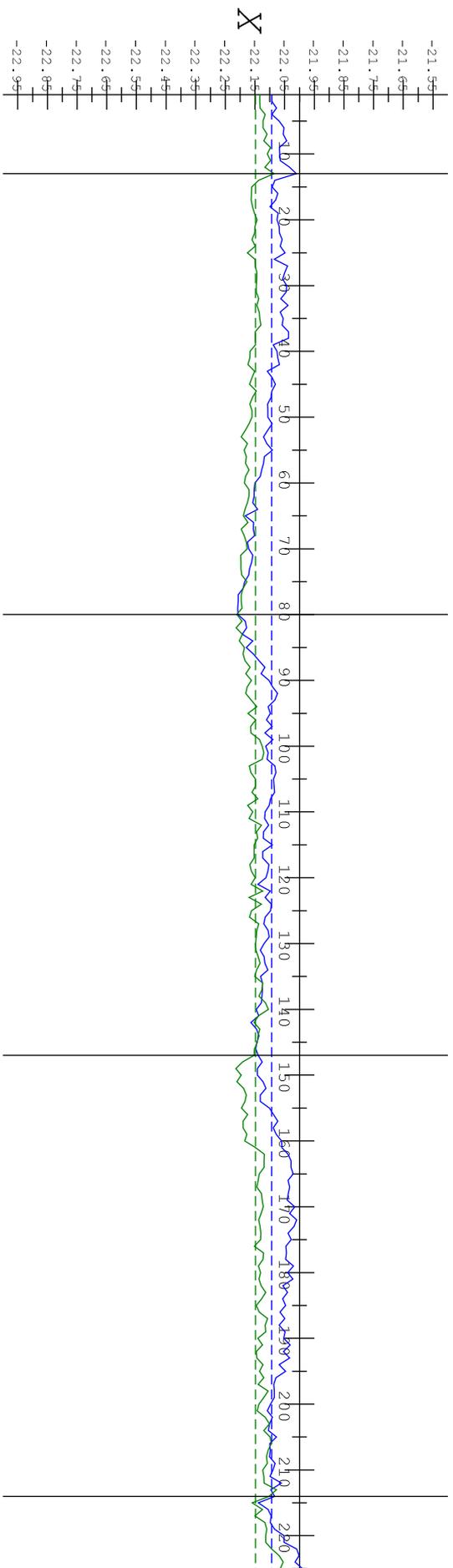
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

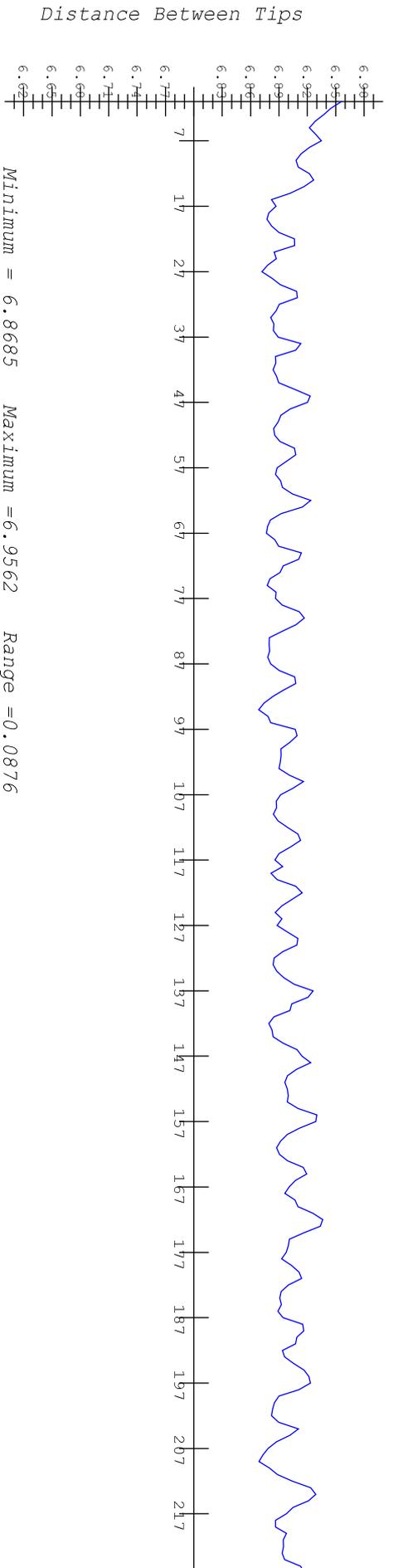
DATE: 16-SEP-2009
 UNDUULATOR # 27
 DATASET # 0001
 PROGRAM VERSION 2.9

Pole Tip Number ----->



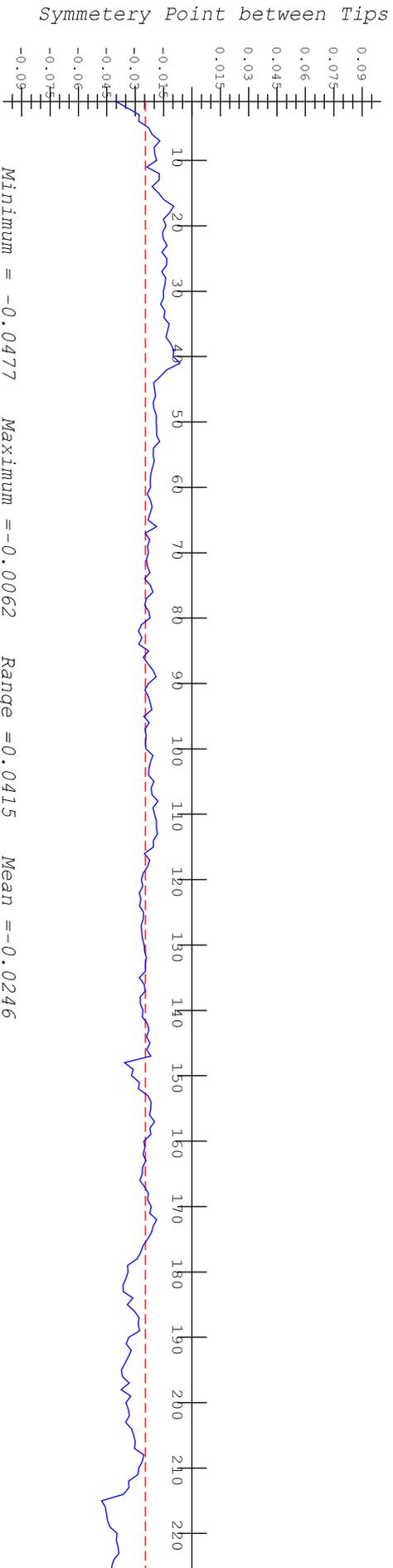
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 16-SEP-2009
 UNDUULATOR # 27
 DATASET # 0001
 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

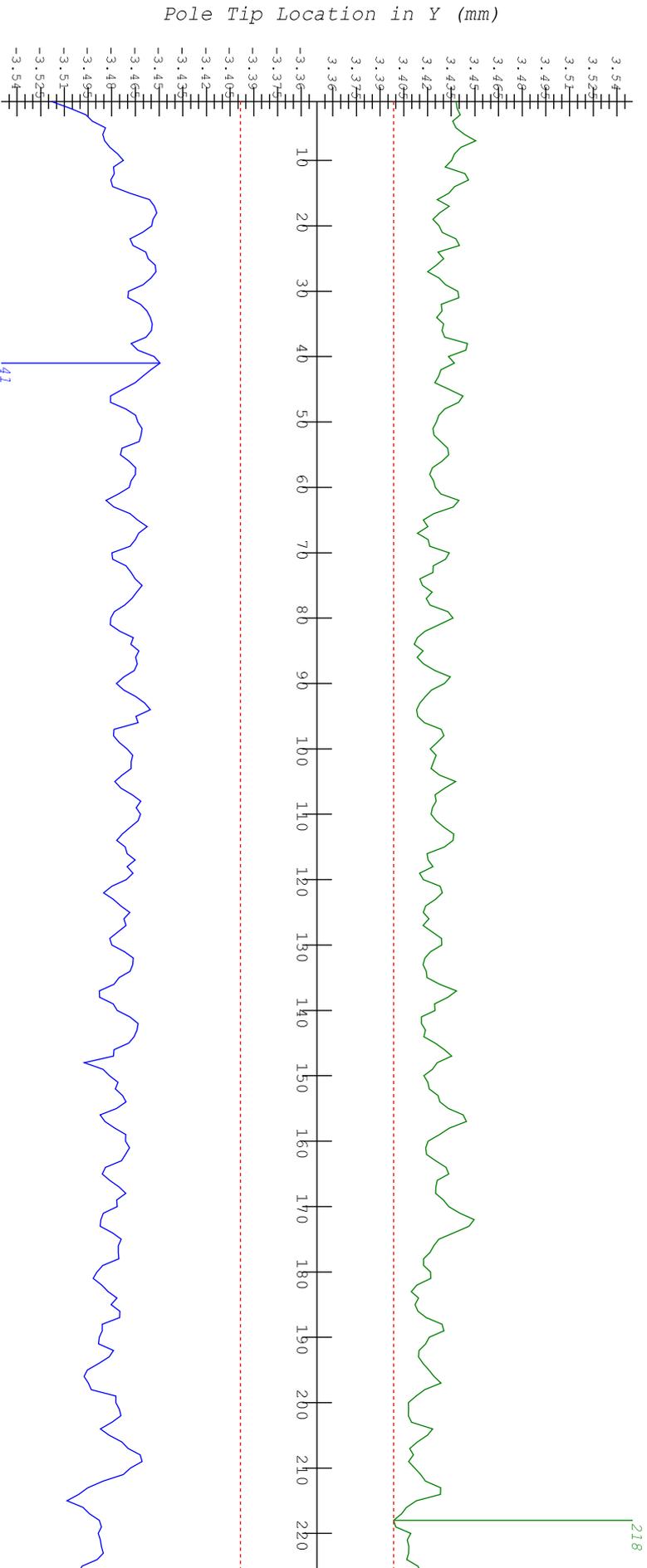


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.7970

Minimum = 3.3985 Maximum = 3.4505 Range = 0.0520



Minimum = -3.5180 Maximum = -3.4495 Range = 0.0686

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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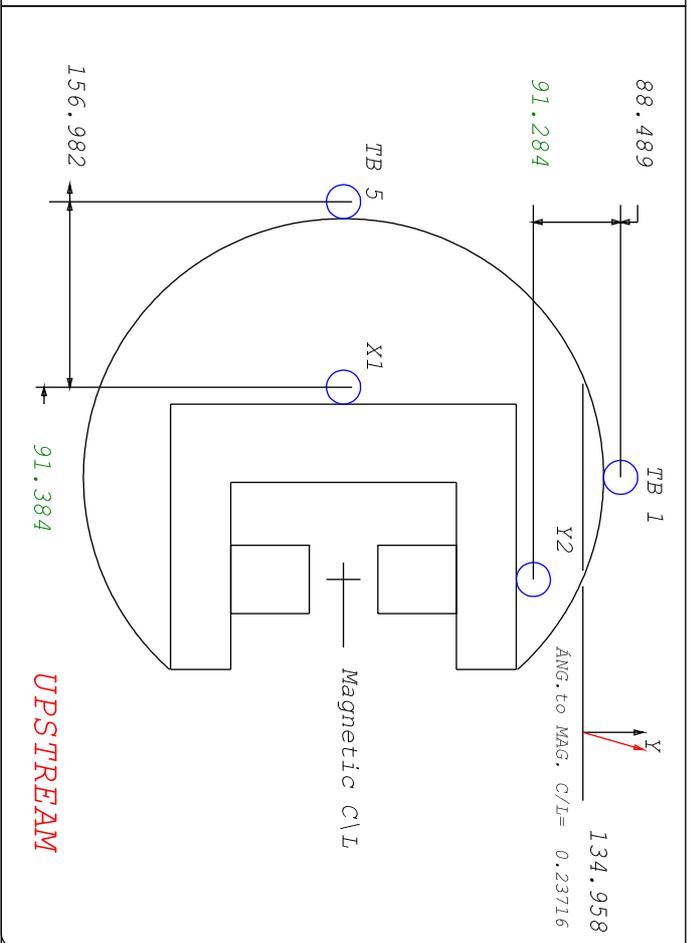
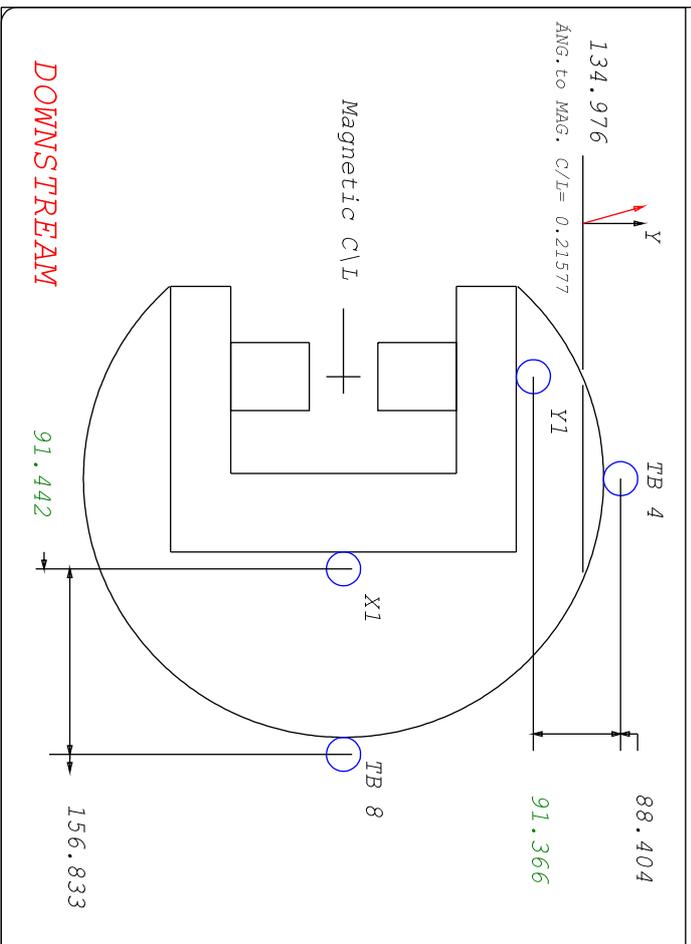
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0446	179.7734	-1558.402
2	-0.1328	179.7438	-584.6761
3	-0.0778	179.7059	591.3107
4	-0.1272	179.7697	1562.1548
5	248.3655	-0.0376	-1558.126
6	248.2168	0.0952	-584.6000
7	248.1752	0.0654	591.3782
8	248.2753	-0.0344	1562.2377

	C/L Offset	Length
Top Magnetic Structure	-0.010	3380.976
Bottom Magnetic Structure	0.010	3381.033
Strongback	0.395	3399.808

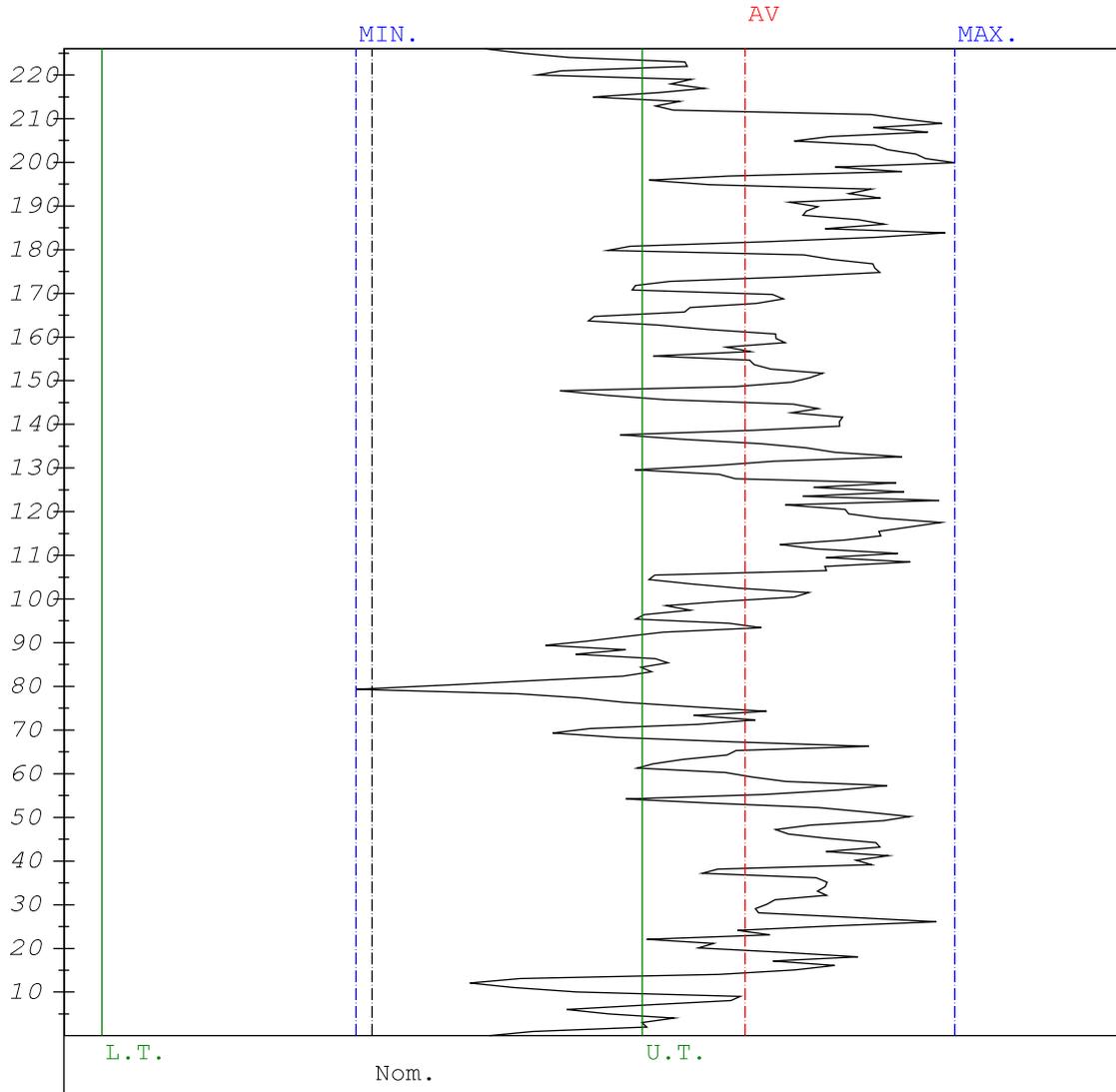
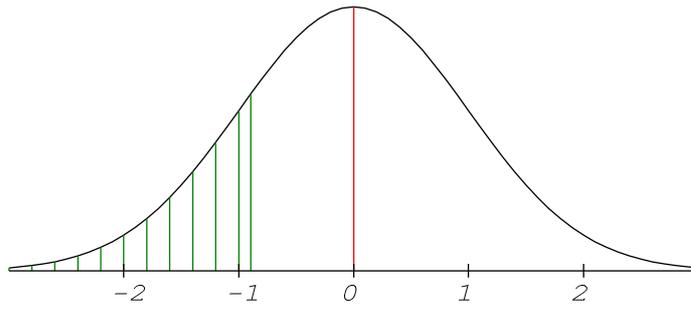
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.1899	Cent.-Dev. : 0.6899
Up. Tol. : 0.5	Maximum : 5.5784	U.Tol.Ex. > : 81.4 %
Low.Tol. : -0.5	Minimum : 4.4702	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2124	In Tolerance: 18.6 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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