

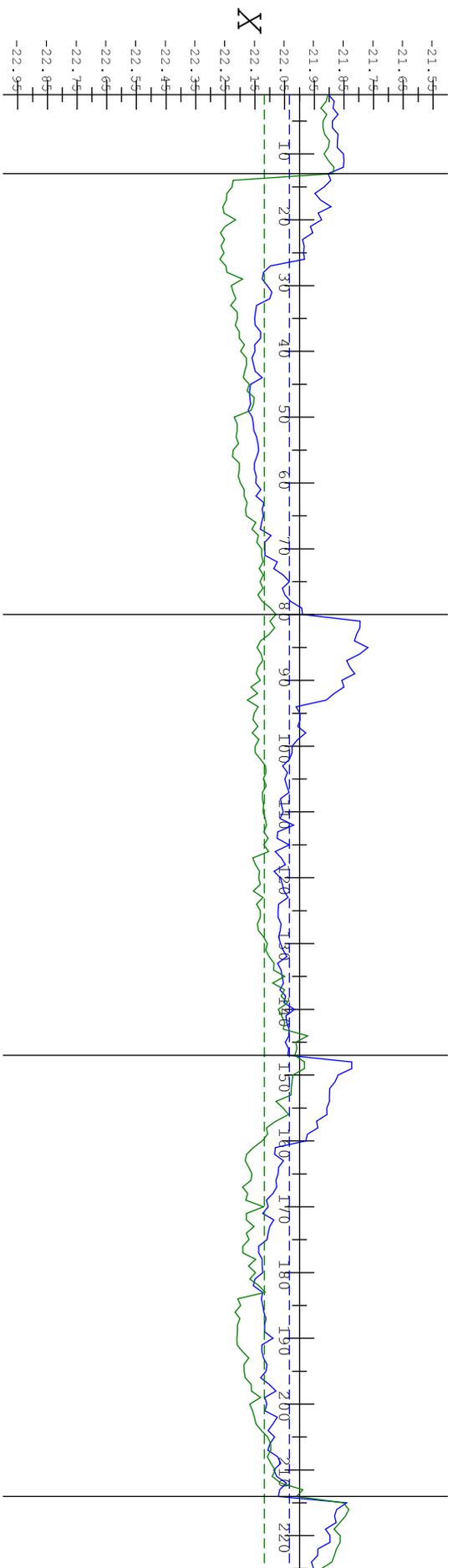
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

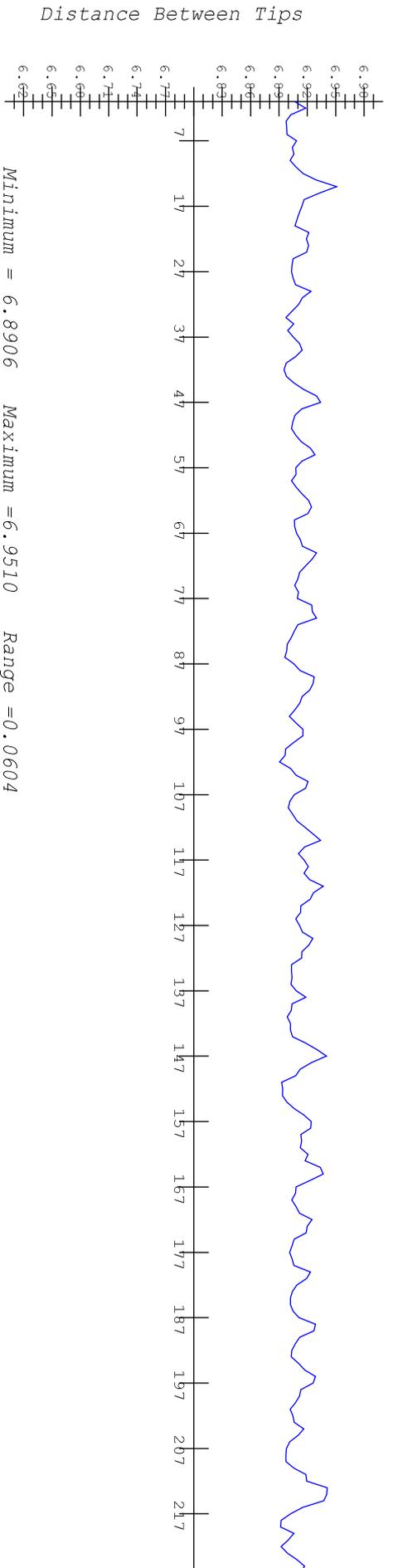
DATE: 07-APR-2009
 UNDULATOR #10
 DATASET #0002
 PROGRAM VERSION 2.9

Pole Tip Number ----->

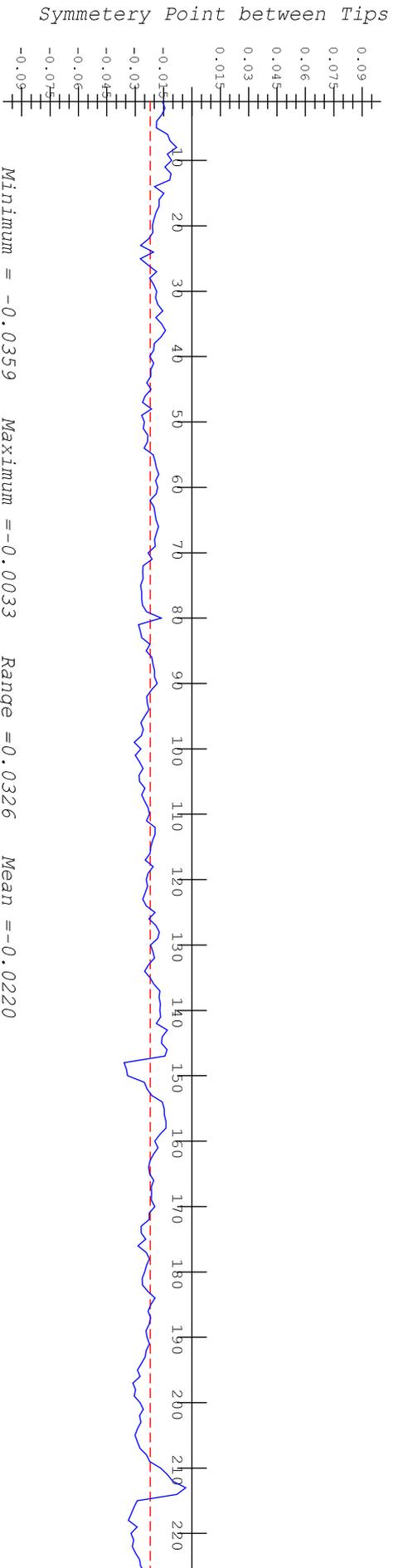


Undulator Pole Tip Location Post Magnetic Alignment

DATE: 07-APR-2009
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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

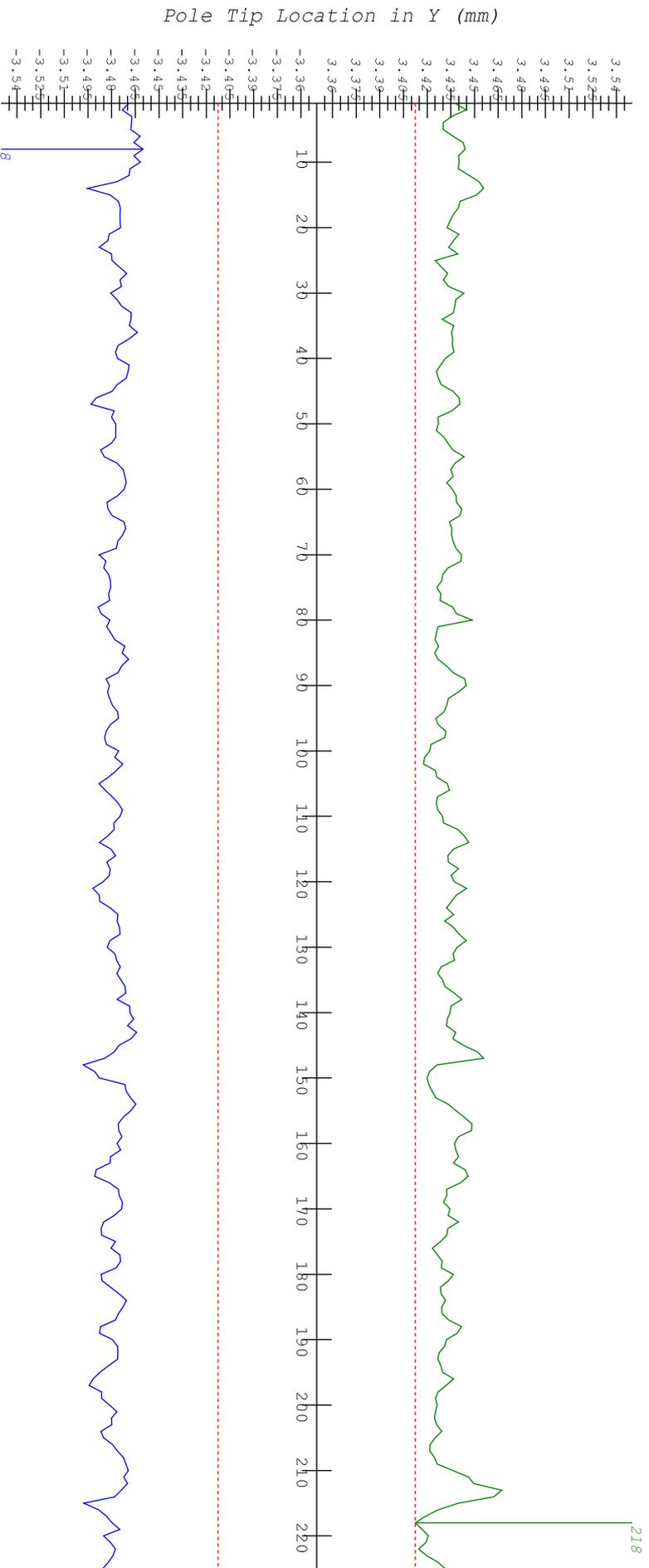


Undulator Pole Tip Location
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Maximum Chamber Gap = 6.8249

Minimum = 3.4125 Maximum = 3.4673 Range = 0.0548



Minimum = -3.4981 Maximum = -3.4601 Range = 0.0380

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
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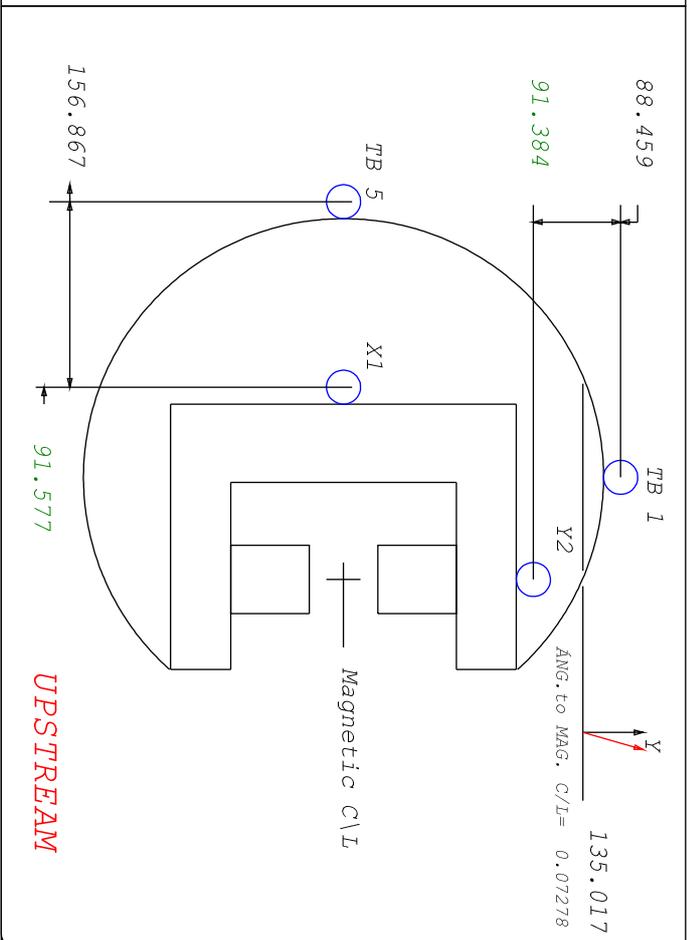
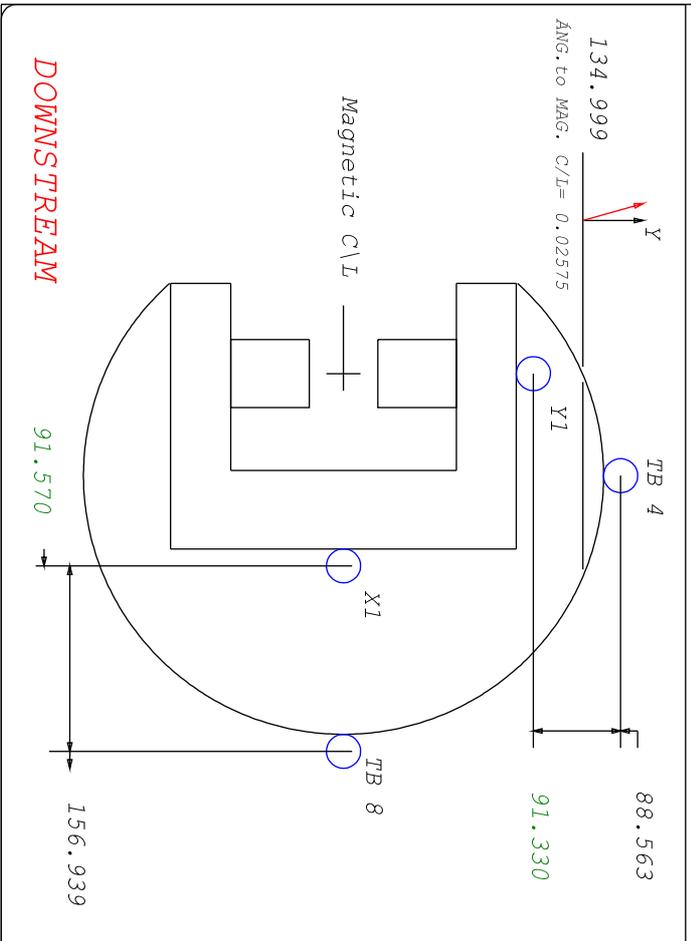
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1318	179.8426	-1558.378
2	0.2265	179.7836	-584.8541
3	0.3445	179.7874	591.2463
4	0.2875	179.8929	1562.0446
5	248.4438	0.0197	-1558.381
6	248.5625	0.0792	-584.8103
7	248.5134	0.0206	591.3081
8	248.5092	0.0161	1562.0875

	C/L Offset	Length
Top Magnetic Structure	0.045	3381.164
Bottom Magnetic Structure	-0.045	3381.142
Strongback	0.248	3400.005

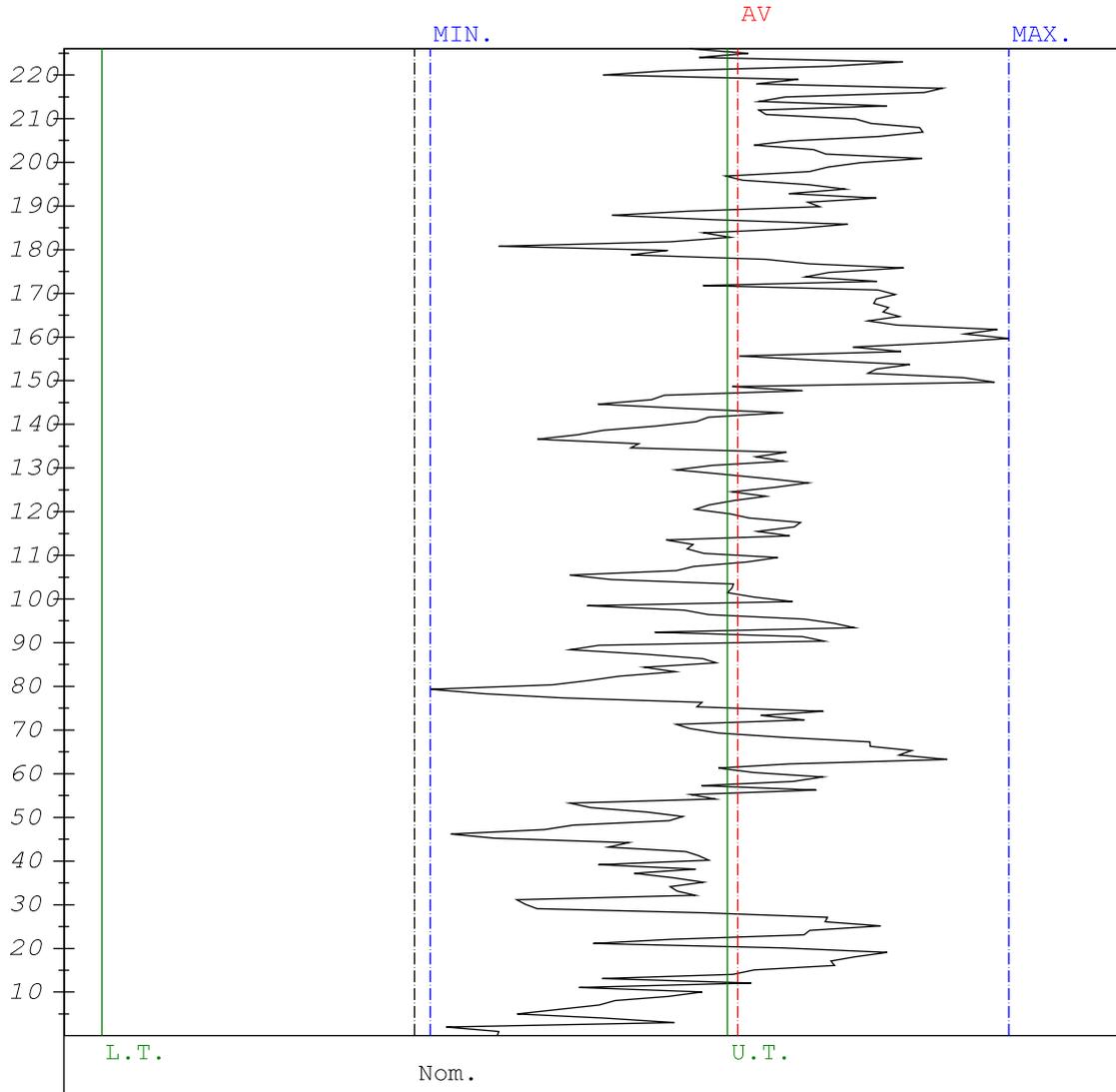
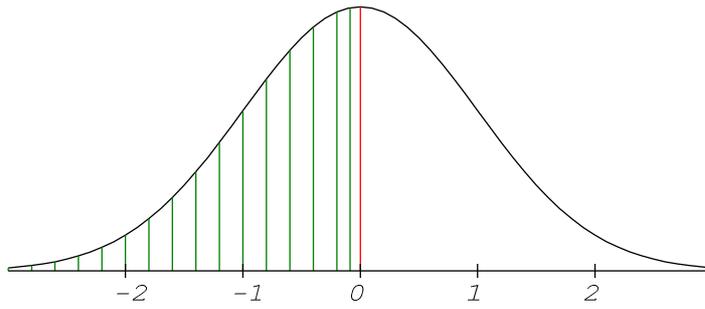
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.0161	Cent.-Dev. : 0.5161
Up. Tol. : 0.5	Maximum : 5.4497	U.Tol.Ex. > : 53.4 %
Low.Tol. : -0.5	Minimum : 4.5250	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1874	In Tolerance: 46.6 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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