

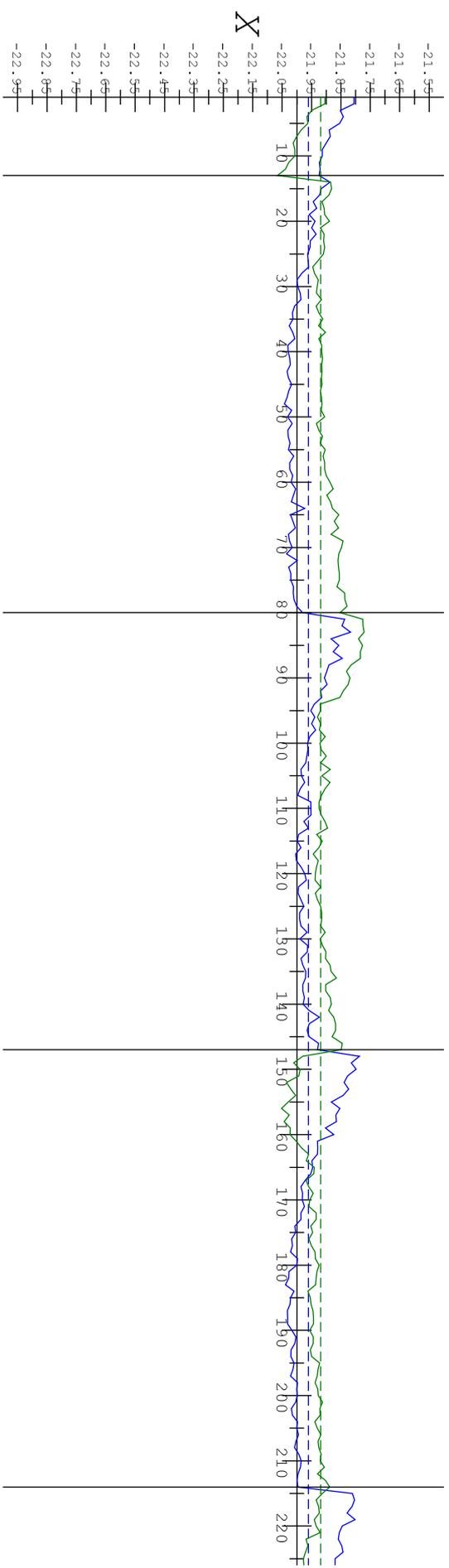
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

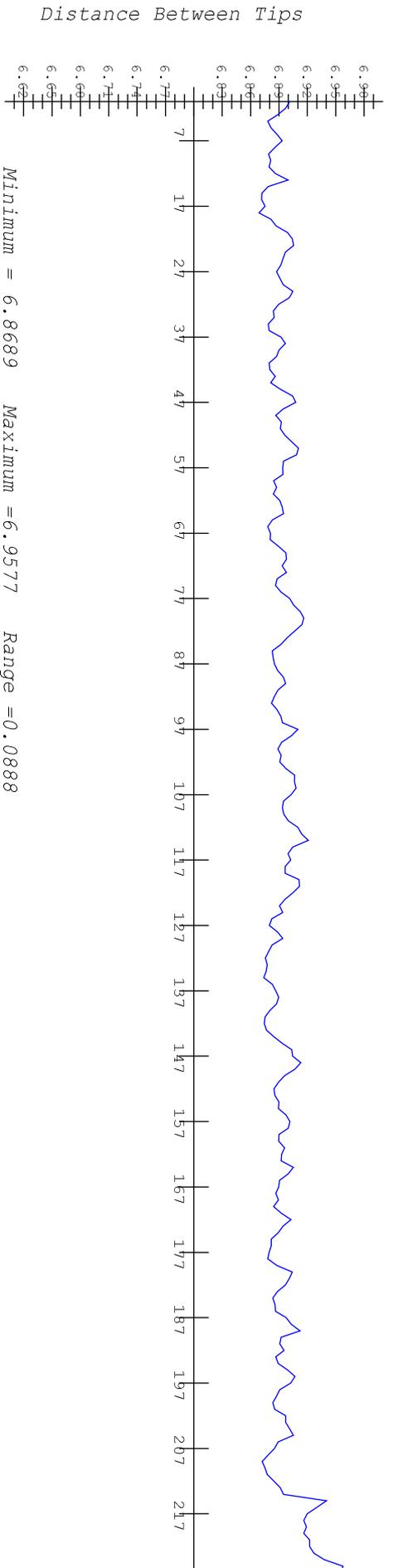
DATE: 02-MAR-2009
 UNDUULATOR # 28
 DATASET # 0002
 PROGRAM VERSION 2.9

Pole Tip Number ----->

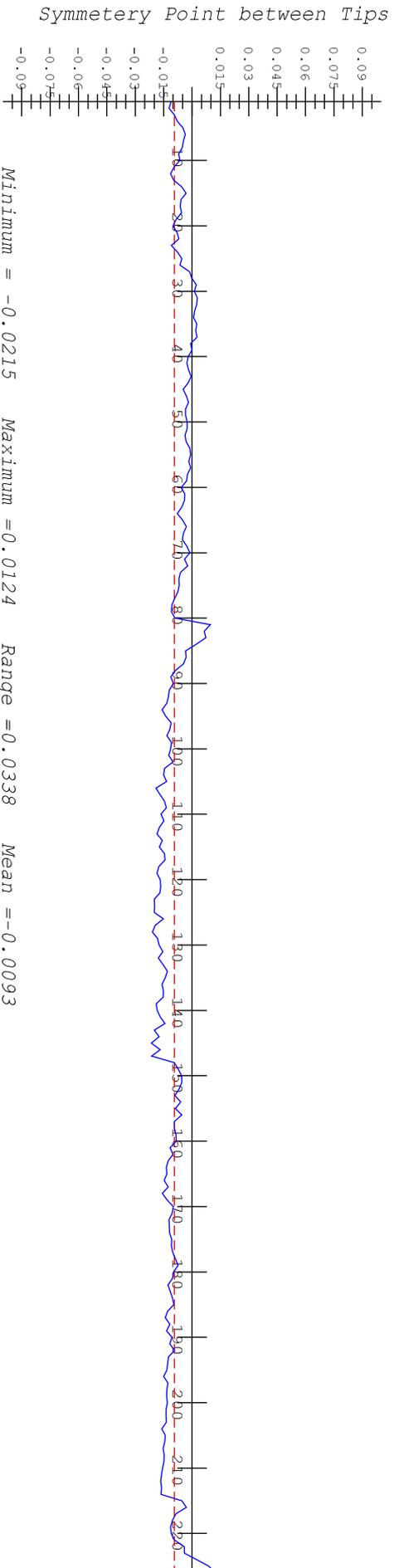


Undulator Pole Tip Location Post Magnetic Alignment

DATE: 02-MAR-2009
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 PROGRAM VERSION 2.9



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

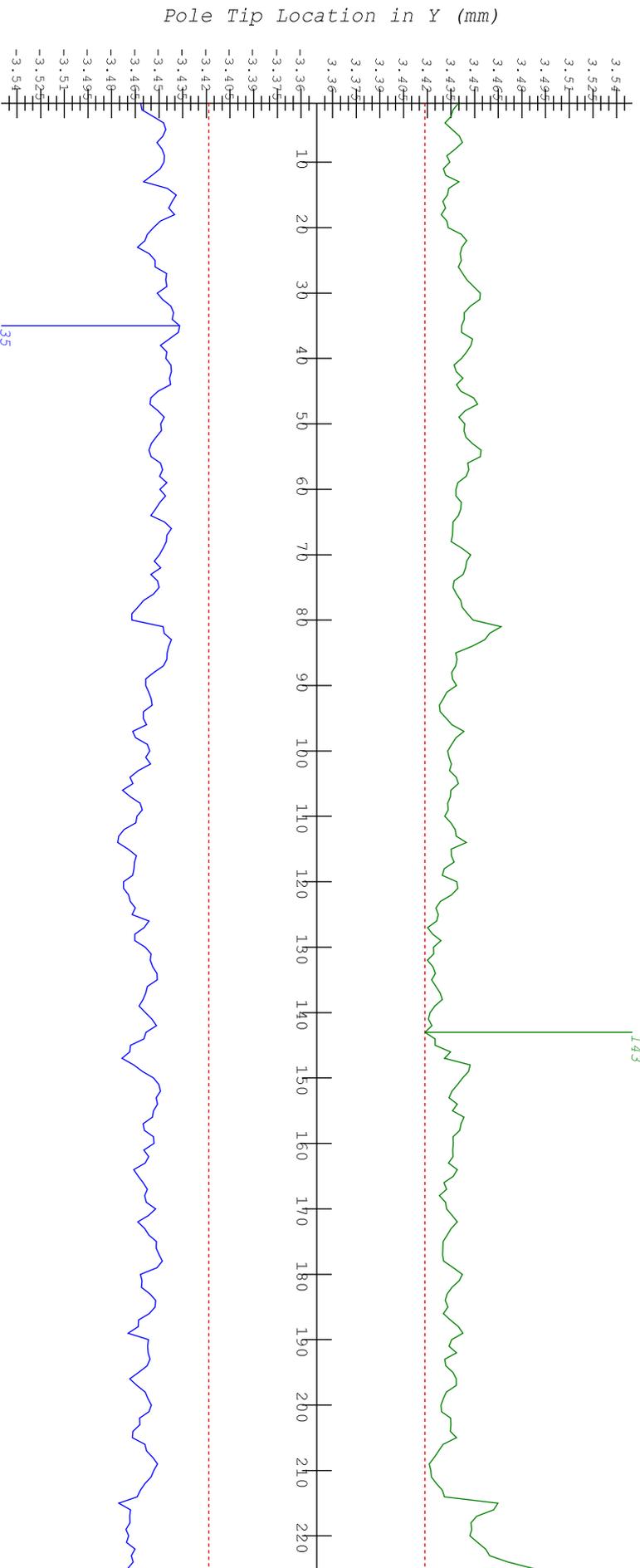


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8370

Minimum = 3.4185 Maximum = 3.4901 Range = 0.0716



Minimum = -3.4762 Maximum = -3.4369 Range = 0.0393

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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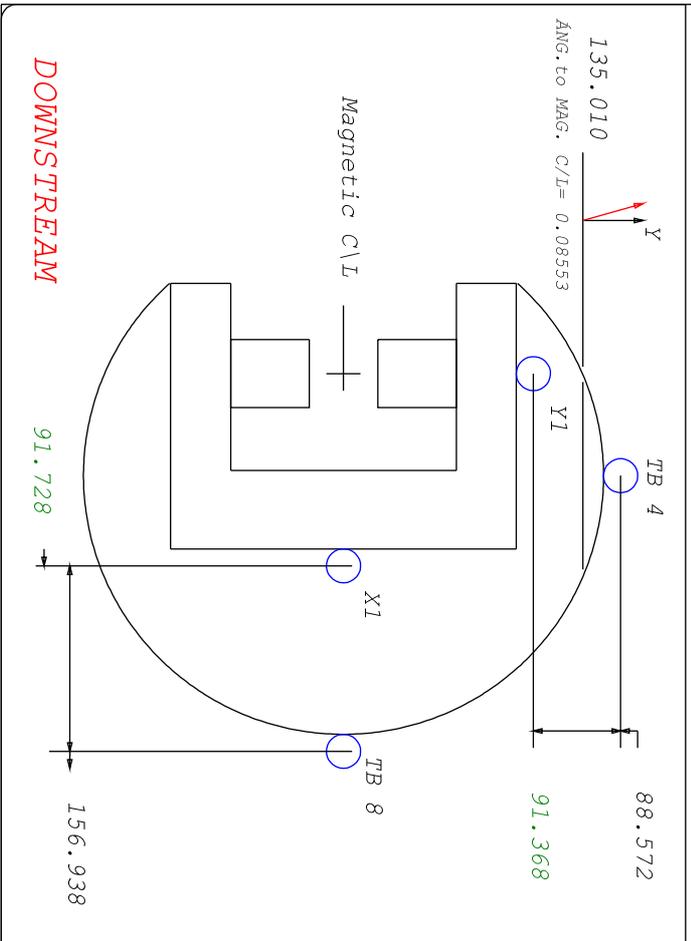
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.3007	179.8229	-1558.403
2	0.4090	179.7255	-584.7150
3	0.5394	179.7168	591.2911
4	0.4575	179.9398	1562.1519
5	248.5805	0.0904	-1558.313
6	248.6491	0.0886	-584.7128
7	248.6828	-0.0340	591.4312
8	248.6661	0.0043	1562.2548

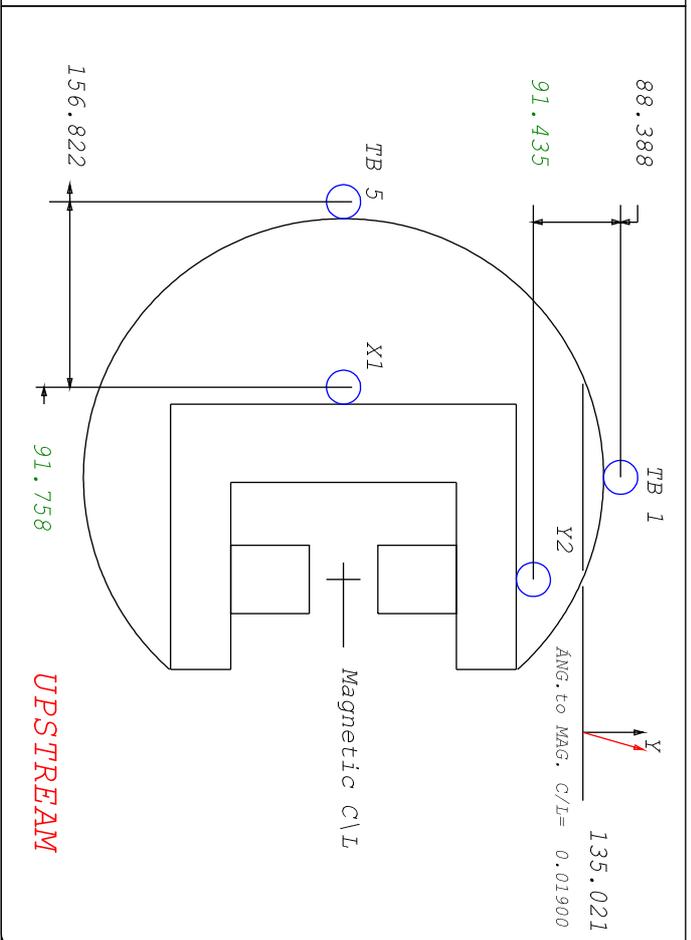
	C/L Offset	Length
Top Magnetic Structure	0.054	3381.114
Bottom Magnetic Structure	-0.054	3380.860
Strongback	0.328	3400.011

Dimensions in mm

Angles in mrad



DOWNSTREAM



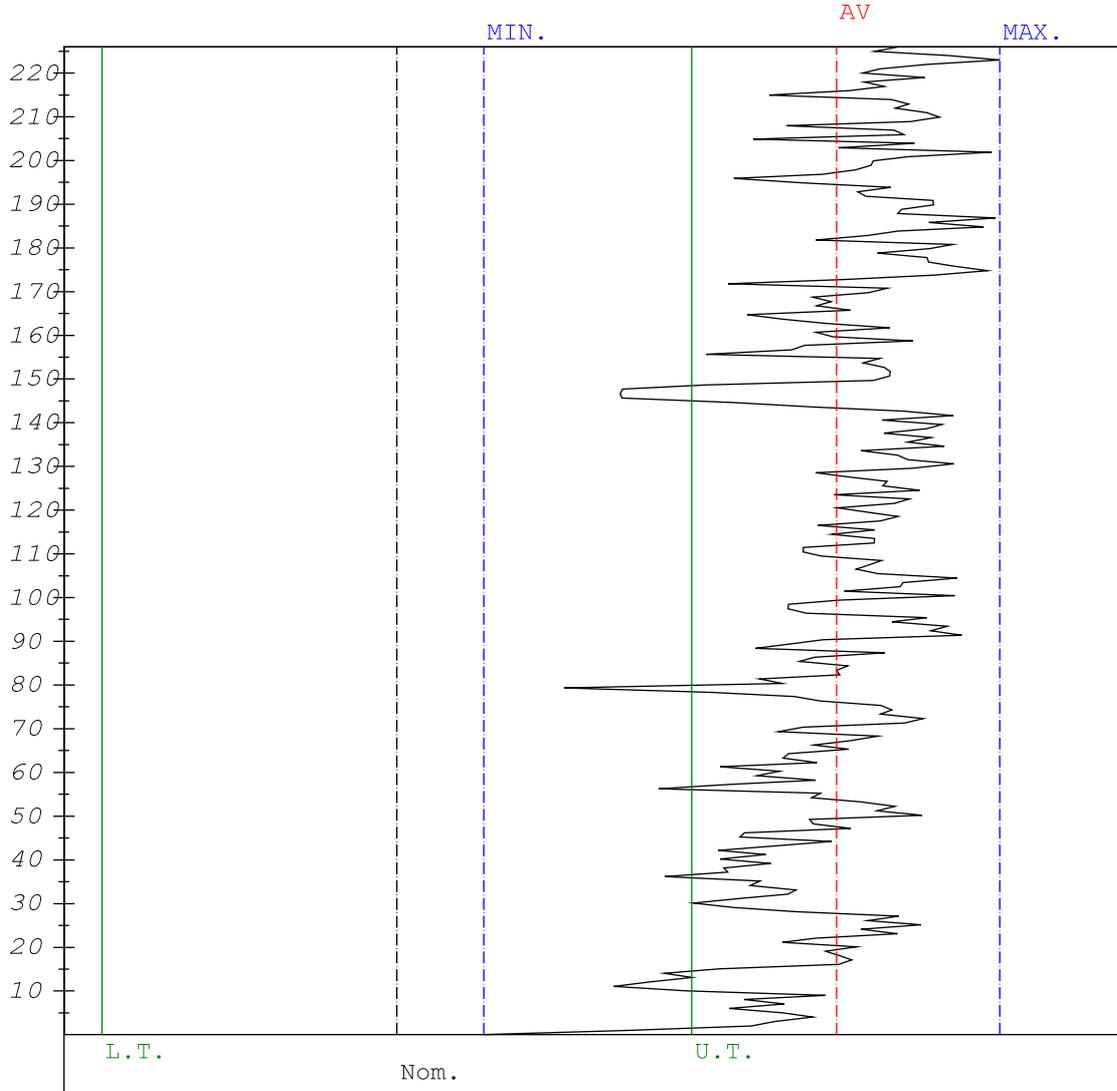
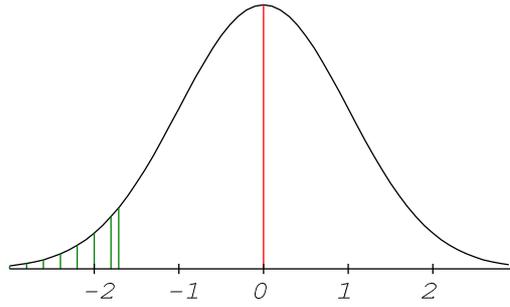
UPSTREAM



MMF GRE 45129

Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.2457	Cent.-Dev. : 0.7457
Up. Tol. : 0.5	Maximum : 5.5223	U.Tol.Ex. > : 95.7 %
Low.Tol. : -0.5	Minimum : 4.6478	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1435	In Tolerance: 4.3 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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