

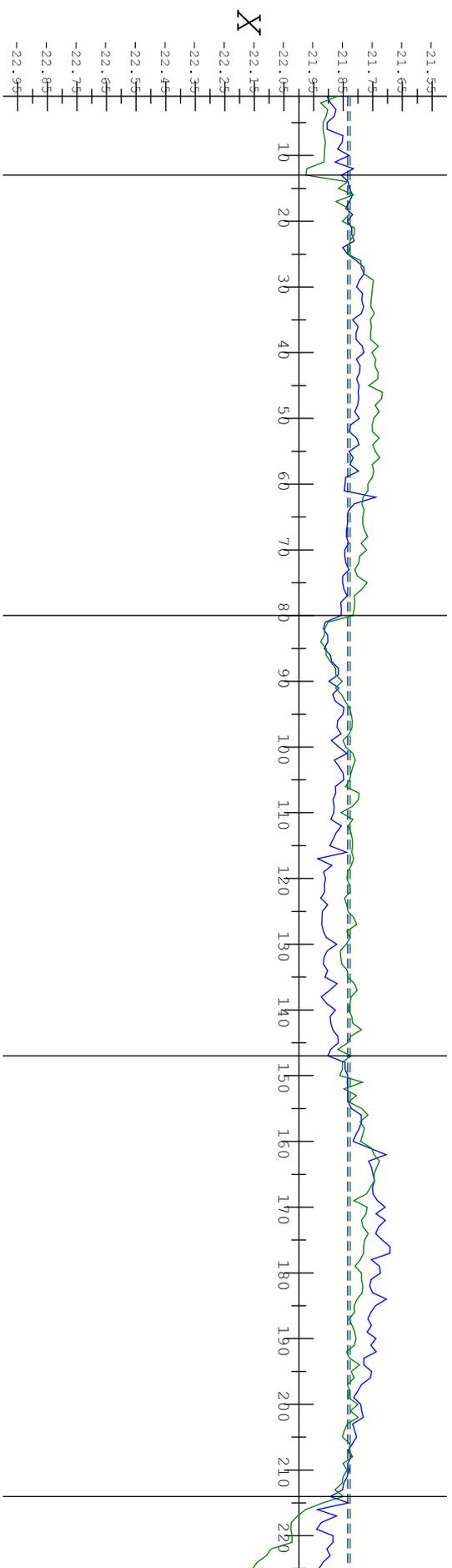
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

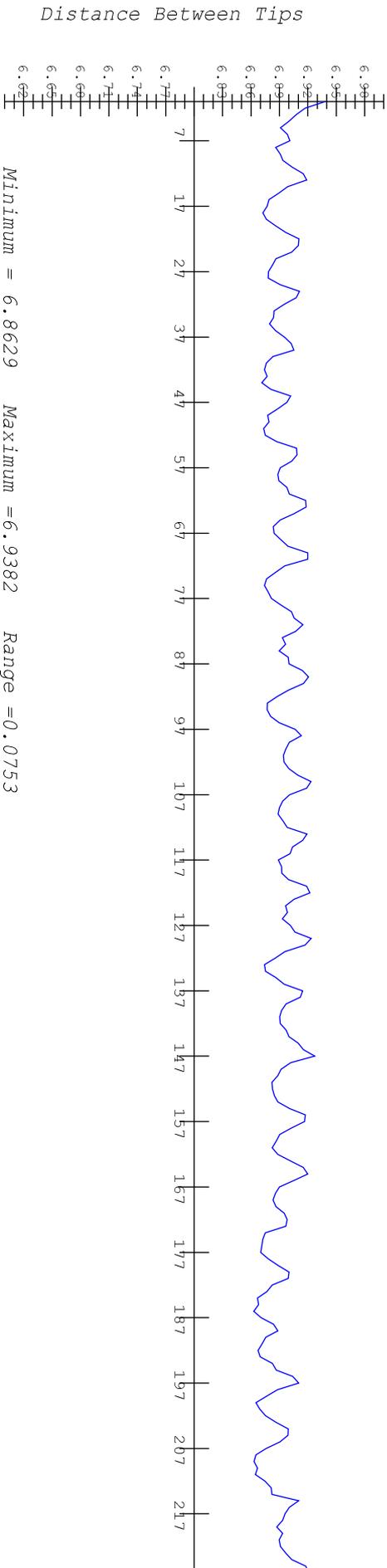
DATE: 16-JUN-2010
 UNDUULATOR #13
 DATASET #0031
 PROGRAM VERSION 2.9

Pole Tip Number ----->



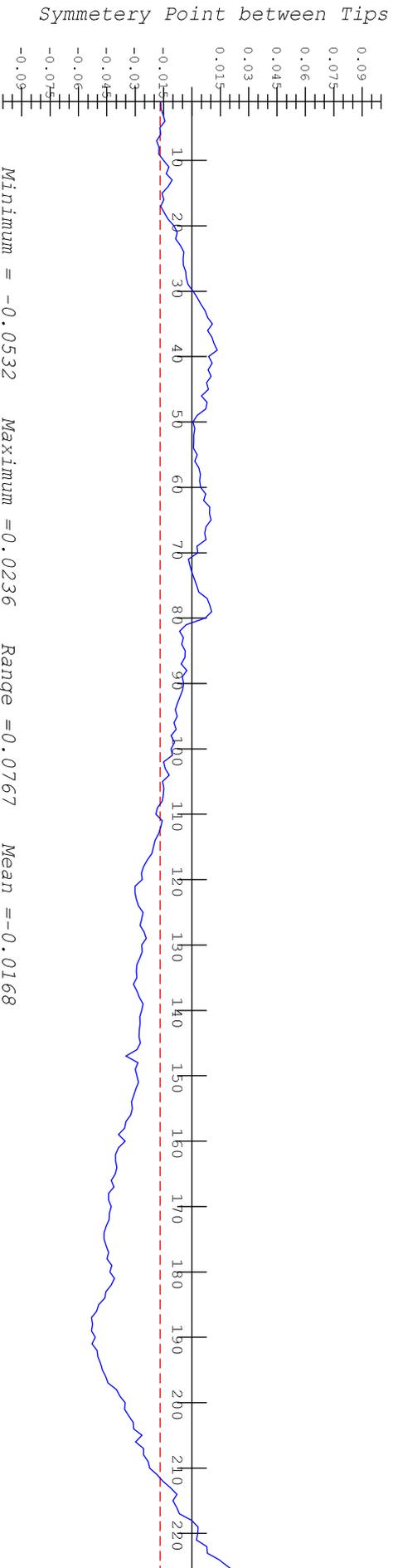
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 16-JUN-2010
 UNDULATOR #13
 DATASET #0031
 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

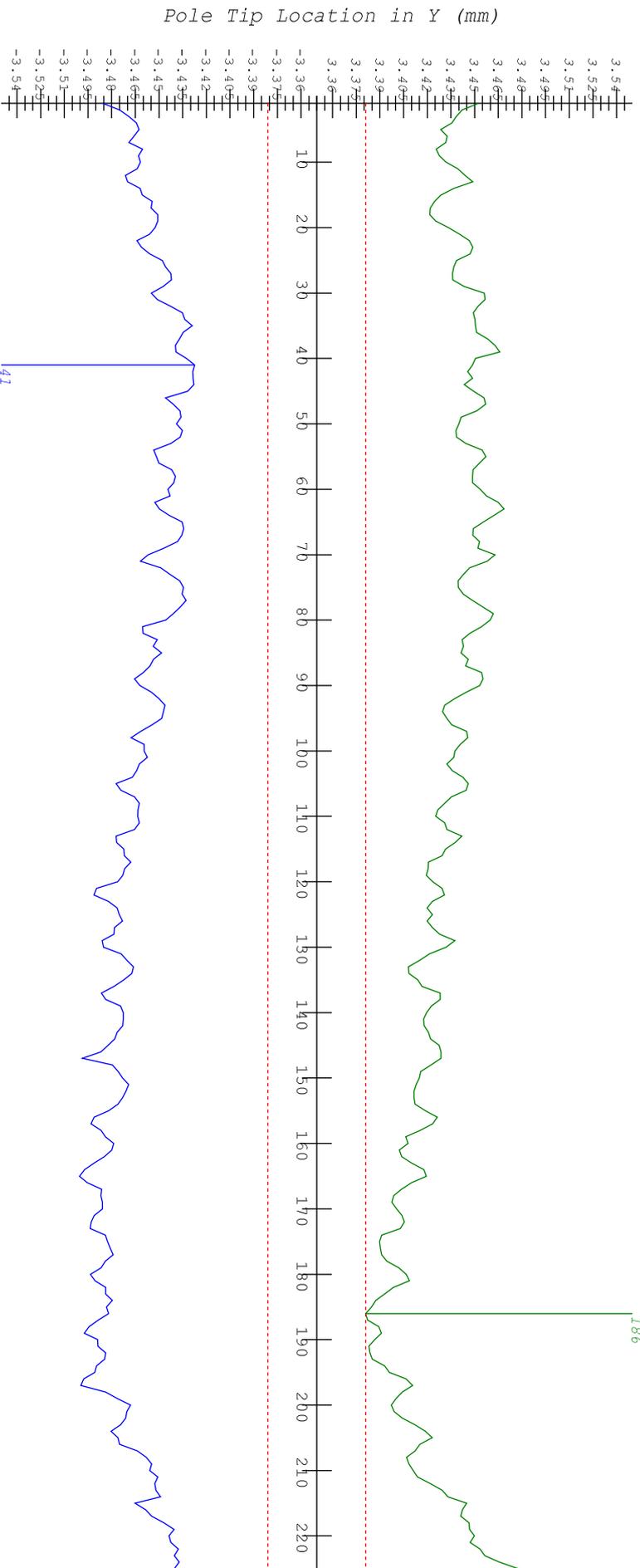


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.7619

Minimum = 3.3810 Maximum = 3.4838 Range = 0.1028



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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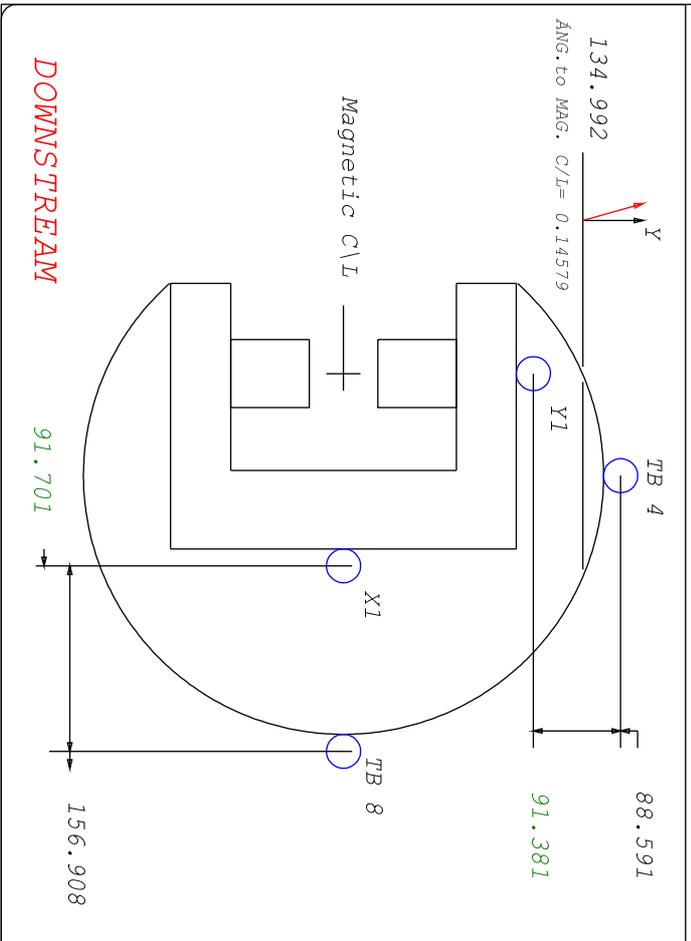
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2486	179.9850	-1558.285
2	0.4096	180.0047	-584.4544
3	0.3029	179.8803	591.3050
4	0.2487	179.9721	1562.0733
5	248.5842	0.0700	-1558.351
6	248.5535	-0.0327	-584.6013
7	248.5709	0.0250	591.3264
8	248.6093	-0.0846	1562.0877

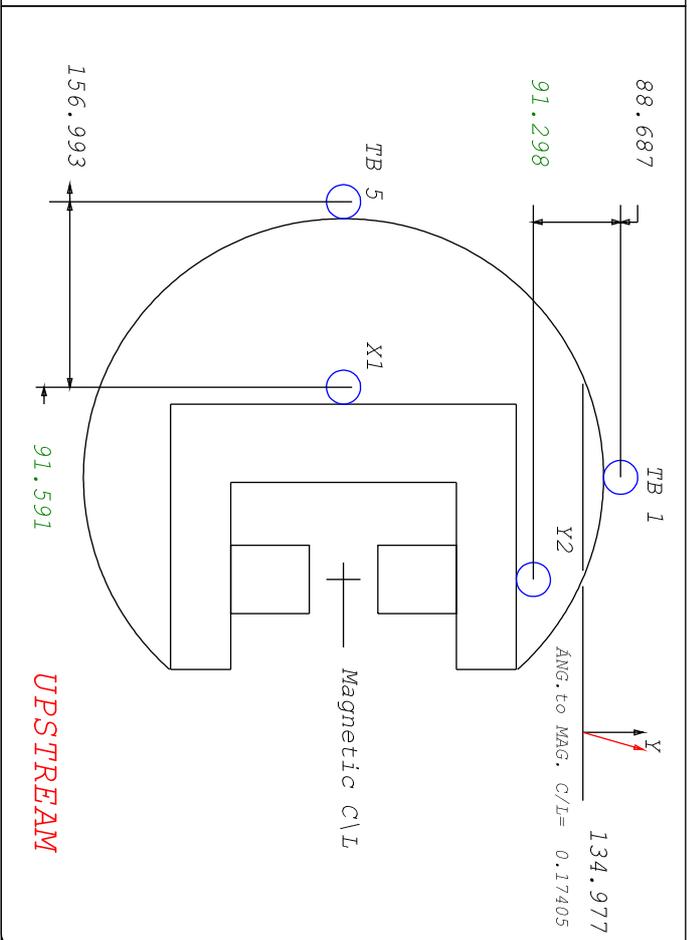
Top Magnetic Structure C/L Offset Length 3381.053
 Bottom Magnetic Structure 0.096 3381.278
 Strongback 0.252 3399.777

Dimensions in mm

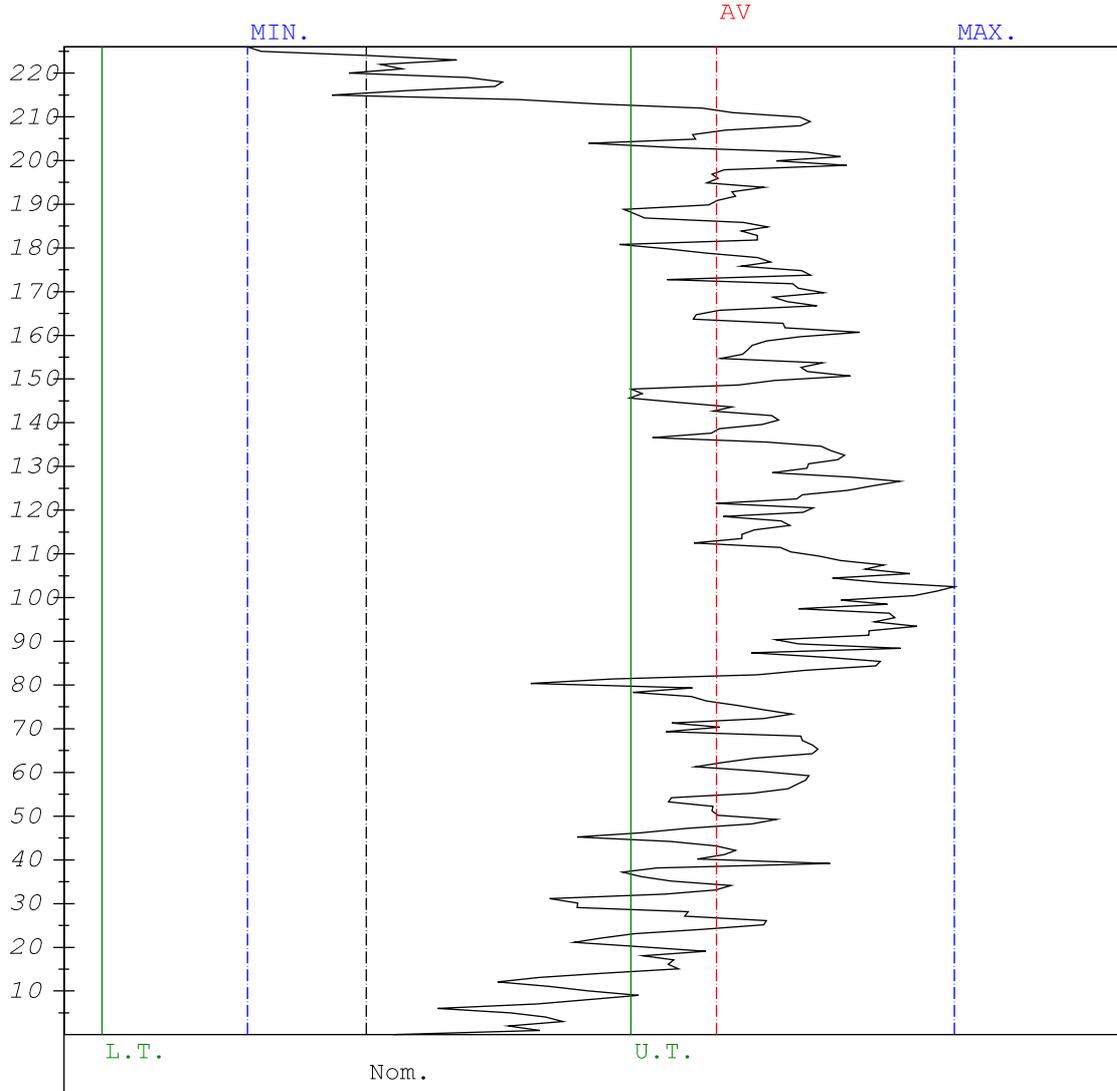
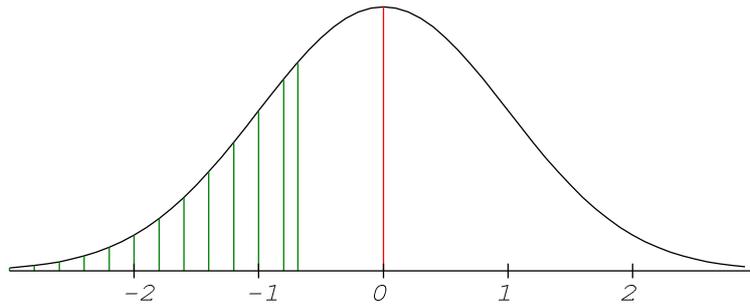
Angles in mrad



DOWNSTREAM



UPSTREAM



Nominal : 4.5000	Averag : 5.1618	Cent.-Dev. : 0.6618
Up. Tol. : 0.5	Maximum : 5.6120	U.Tol.Ex. > : 75.4 %
Low.Tol. : -0.5	Minimum : 4.2750	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2357	In Tolerance: 24.6 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

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