

Pole Tip Number ----->

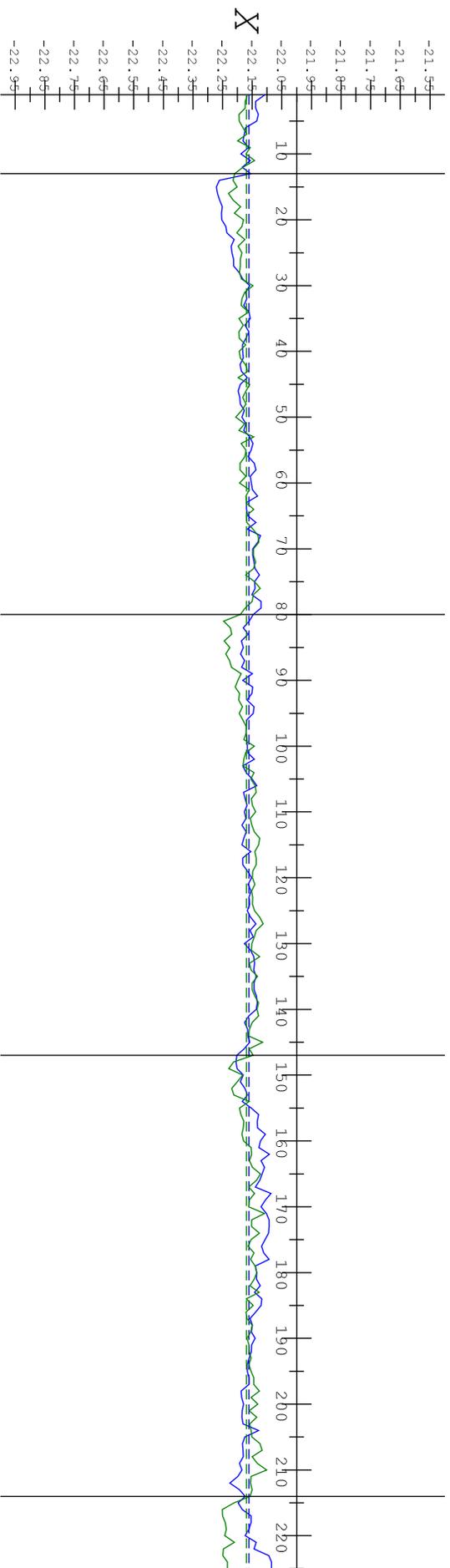
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
 Included Angle is the angle between the upper and lower Pole Tips



Undulator Pole Tip Angles  
 Post Magnetic Alignment

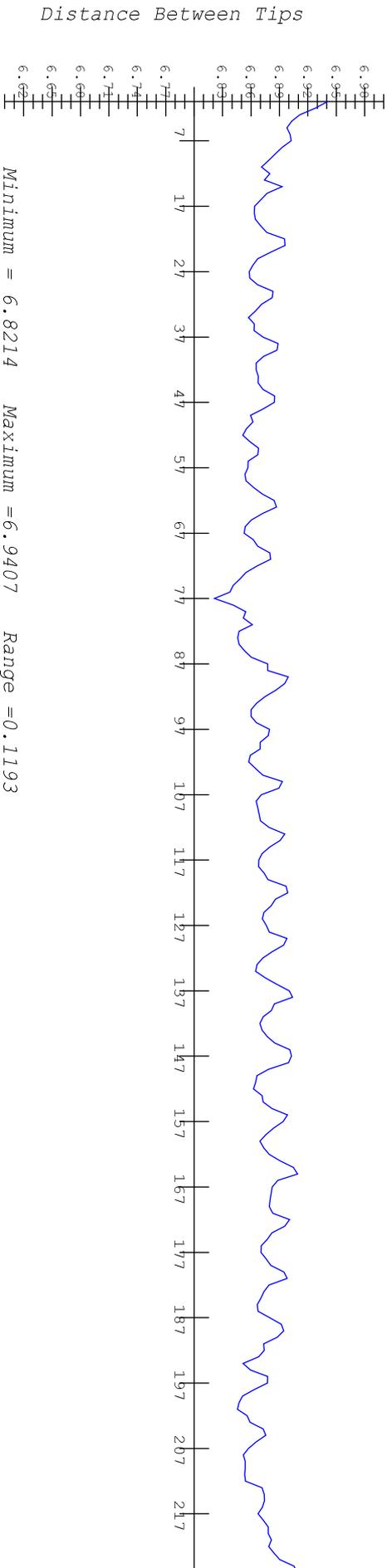
DATE: 10-MAY-2011  
 UNDULATOR # 37  
 DATASET # 0005  
 PROGRAM VERSION 2.9

# Pole Tip Number ----->



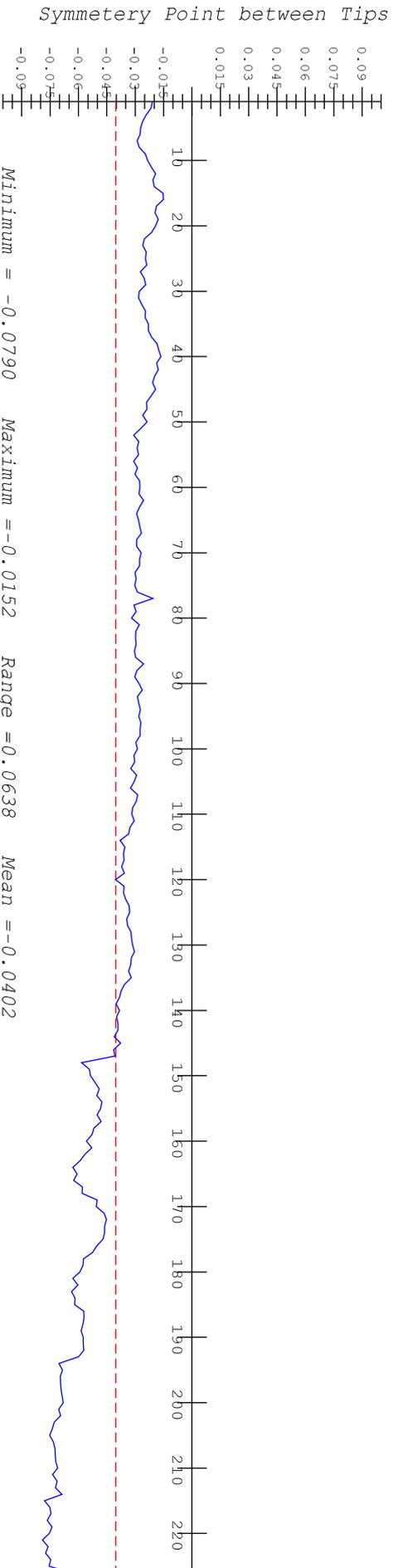
## Undulator Pole Tip Location Post Magnetic Alignment

DATE: 10-MAY-2011  
 UNDUULATOR # 37  
 DATASET # 0005  
 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

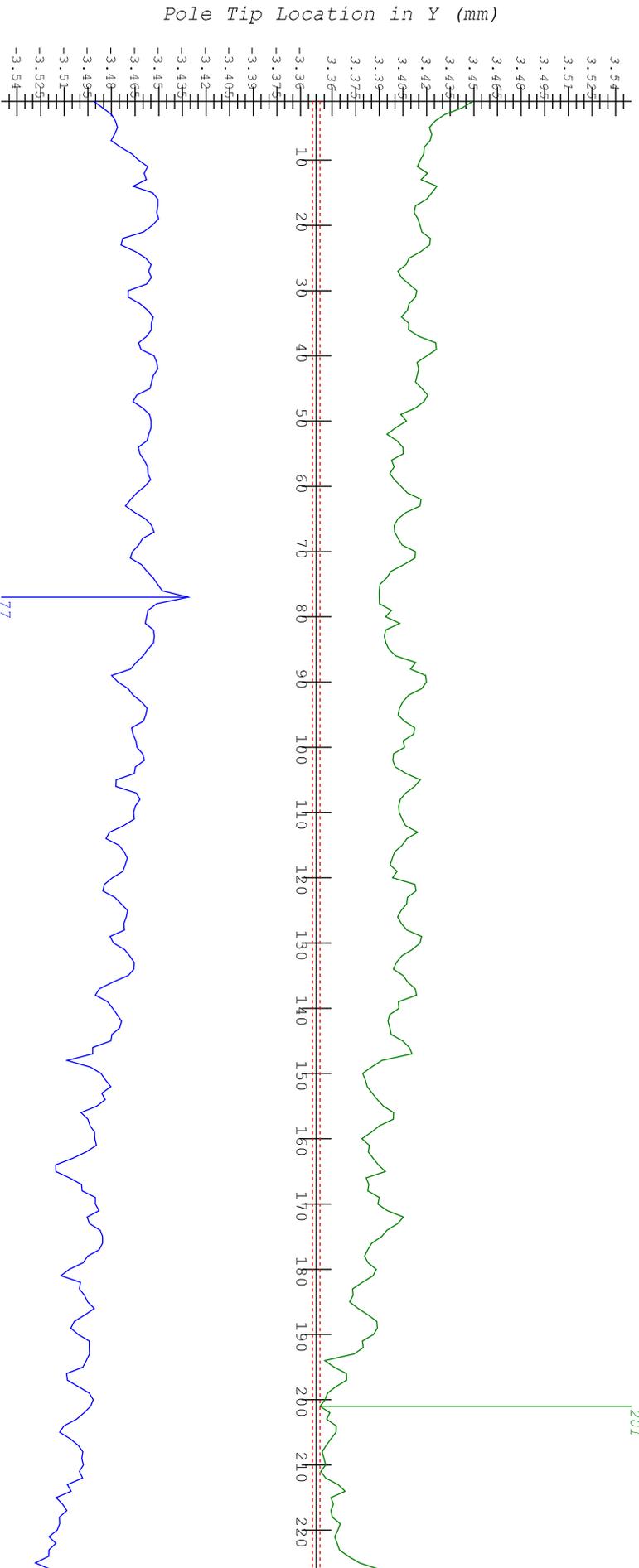


Undulator Pole Tip Location  
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.7048

Minimum = 3.35224    Maximum = 3.4494    Range = 0.0970



Minimum = -3.5283    Maximum = -3.4314    Range = 0.0969

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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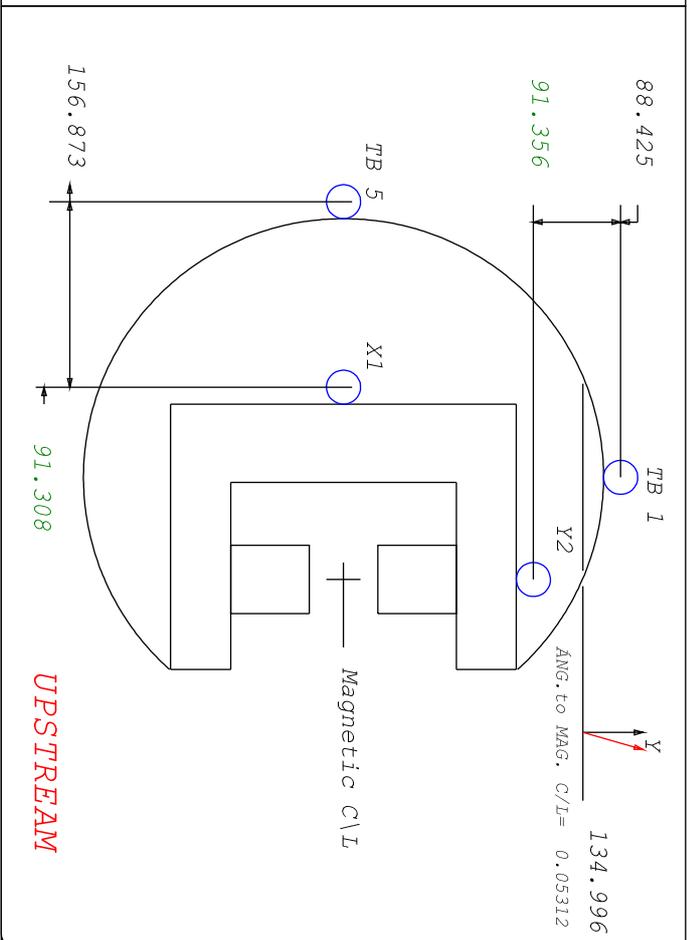
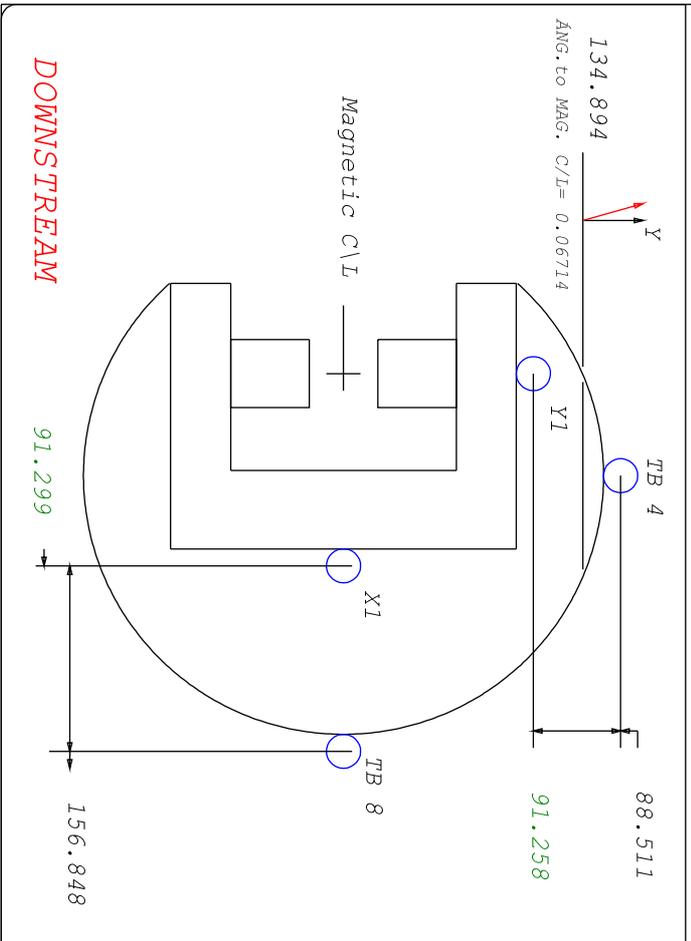
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0805	179.7809	-1558.356
2	0.1133	179.8644	-584.7294
3	-0.2128	179.6995	591.3571
4	0.0608	179.7685	1562.2348
5	248.1814	-0.0093	-1558.259
6	248.1108	0.0220	-584.6960
7	248.1377	-0.1128	591.3888
8	248.1471	-0.1836	1562.0925

	C/L Offset	Length
Top Magnetic Structure	0.016	3381.084
Bottom Magnetic Structure	-0.016	3381.016
Strongback	0.391	3399.953

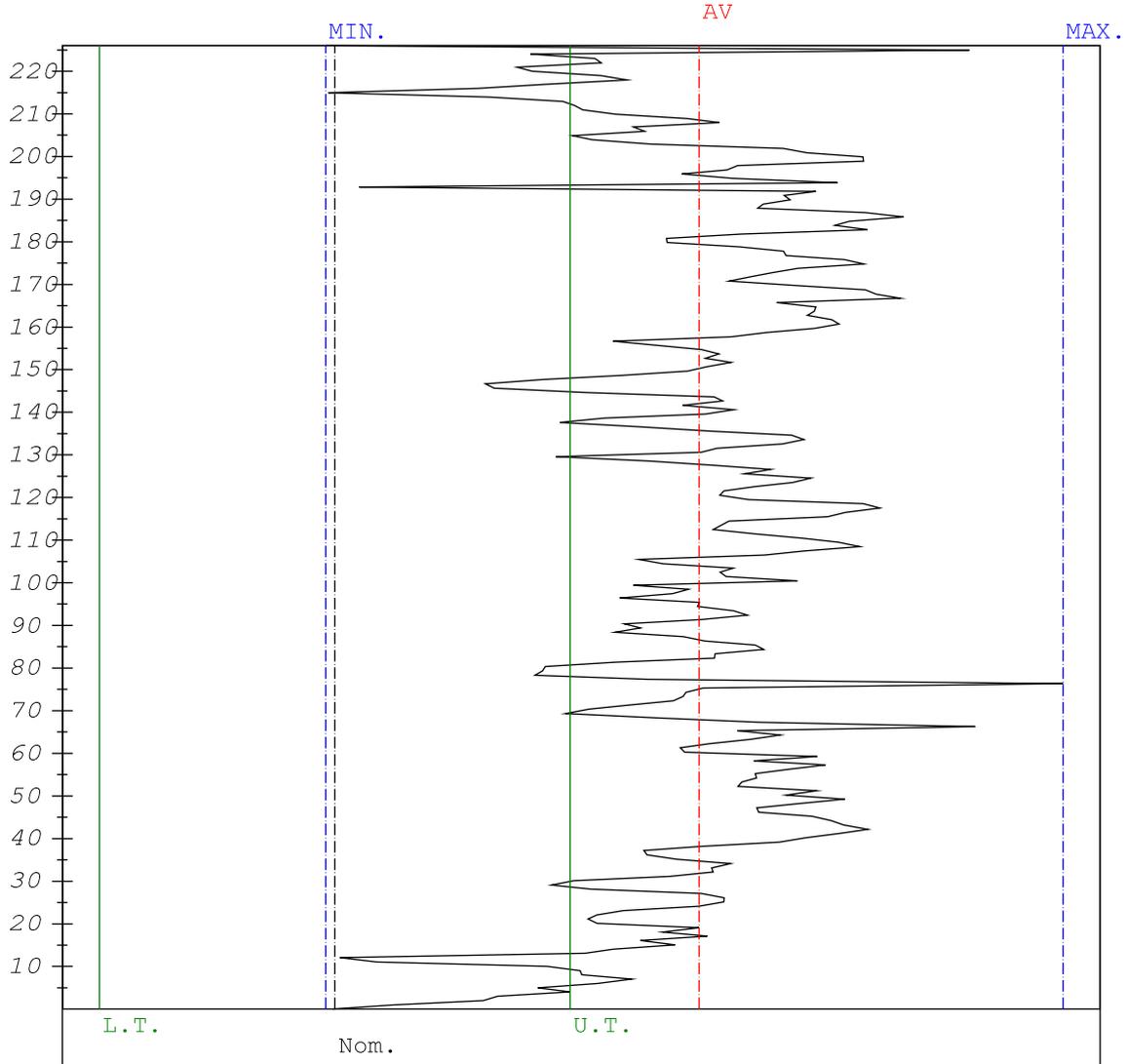
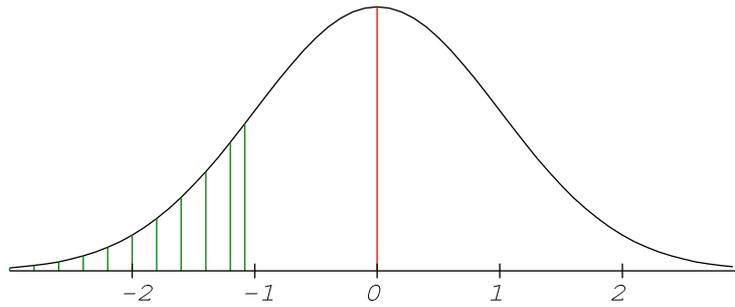
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization  
Post Magnetic Alignment

DATE: 10-MAY-2011  
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Nominal : 4.5000	Averag : 5.274	Cent.-Dev. : 0.774
Up. Tol. : 0.5	Maximum : 6.0465	U.Tol.Ex. > : 86.0 %
Low.Tol. : -0.5	Minimum : 4.4807	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2537	In Tolerance: 14.0 %
Outlier : 0	Distribution : NOR	Dimension : mrad