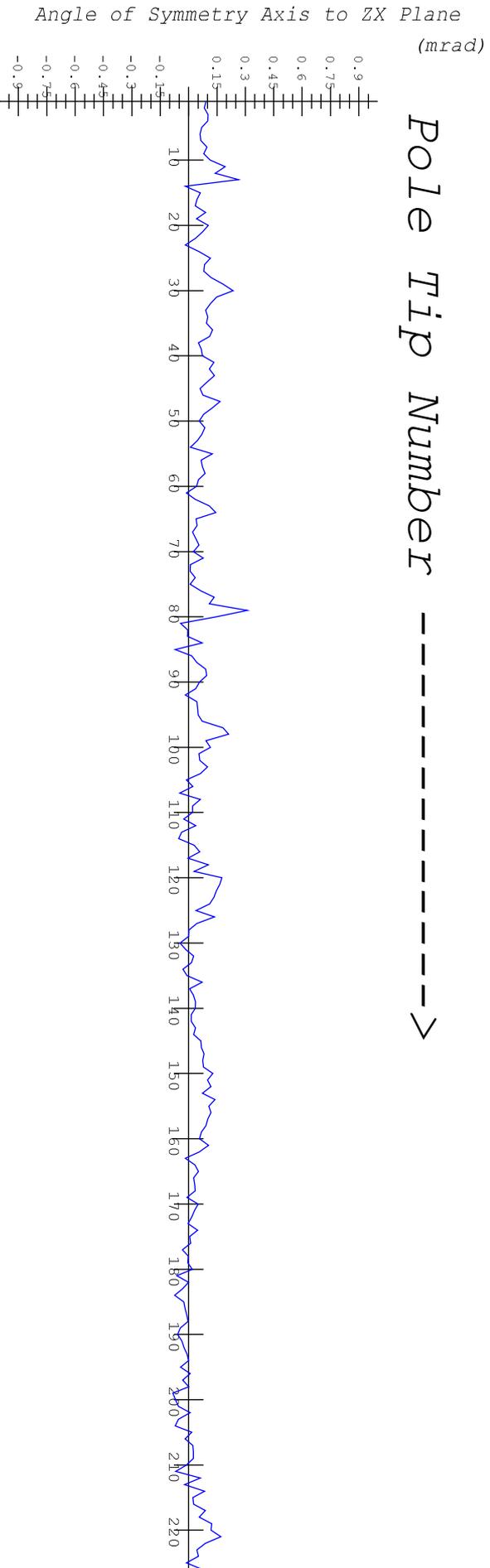


Pole Tip Number ----->



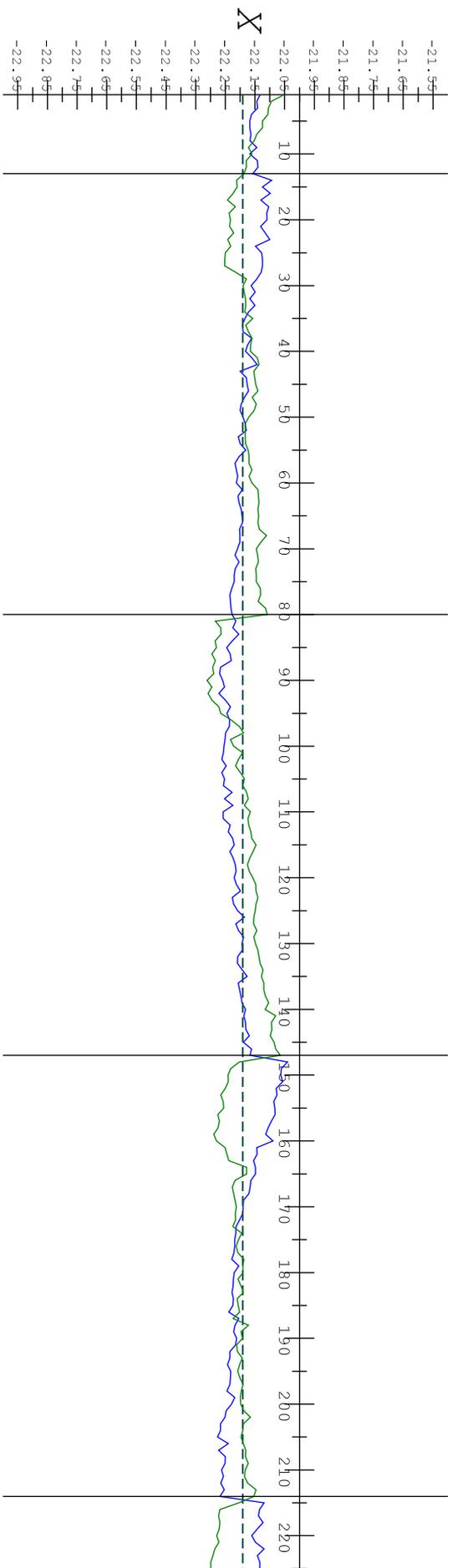
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 27-SEP-2007
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Pole Tip Number ----->



X values in mm

Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L

Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.190

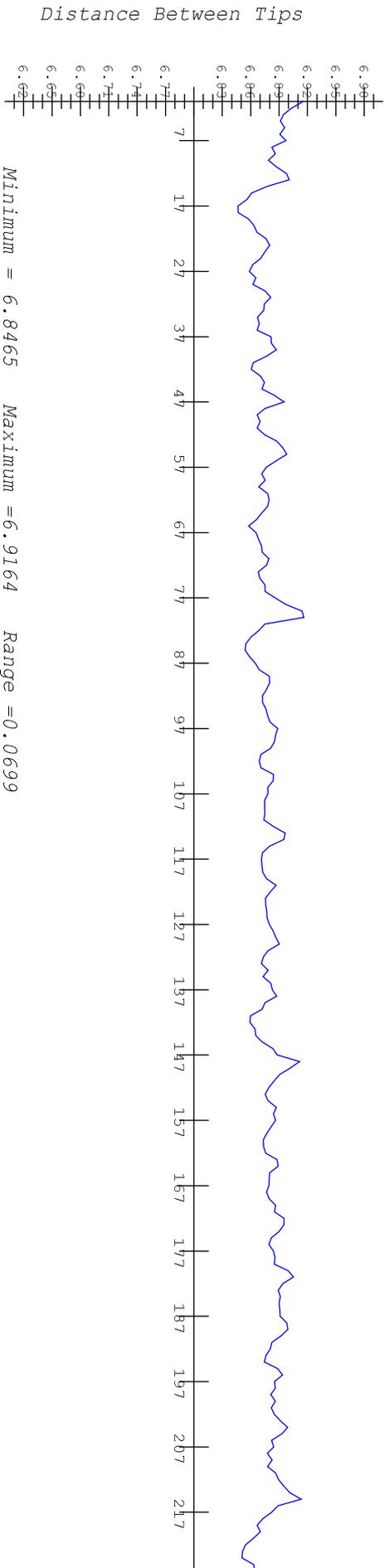
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.192

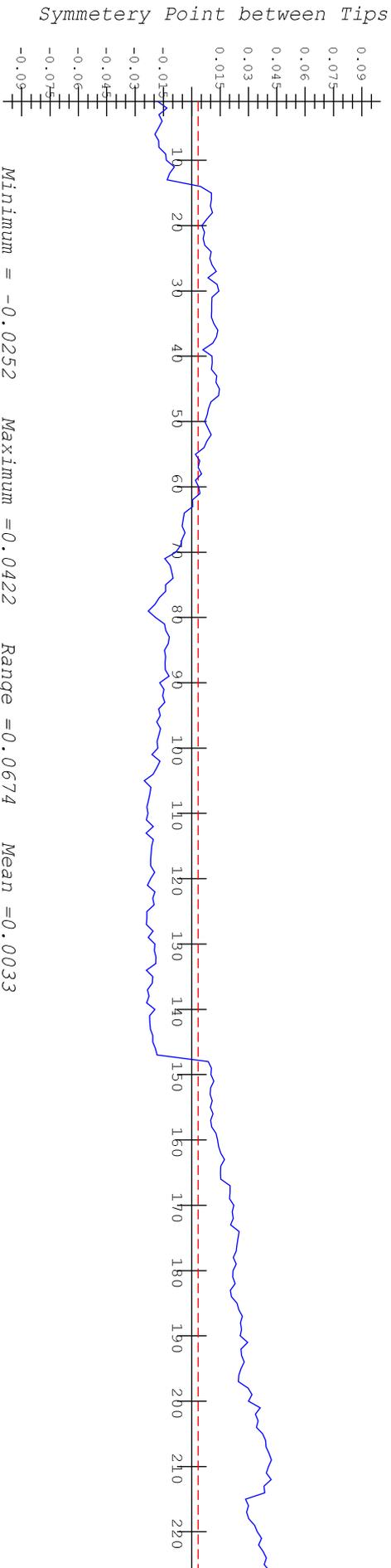
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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 27-SEP-2007
 UNDUULATOR # 24
 DATASET # 0001
 PROGRAM VERSION 2.2



Pole Tip Number ----->



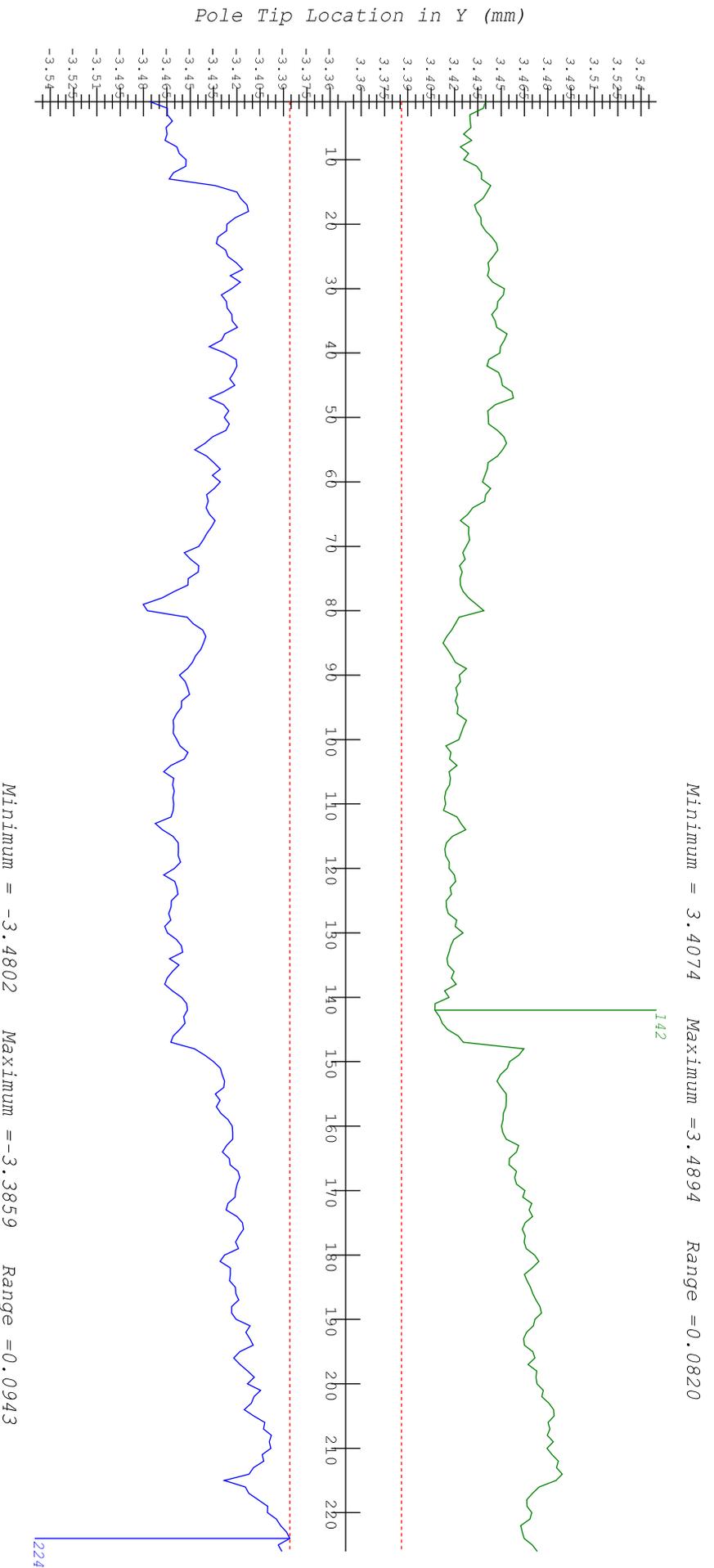
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L

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Undulator Pole Tip Location
 Post Magnetic Alignment

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 PROGRAM VERSION 2.2

Maximum Chamber Gap = 6.7719



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)

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Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 27-SEP-2007
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PROGRAM VERSION 2.2



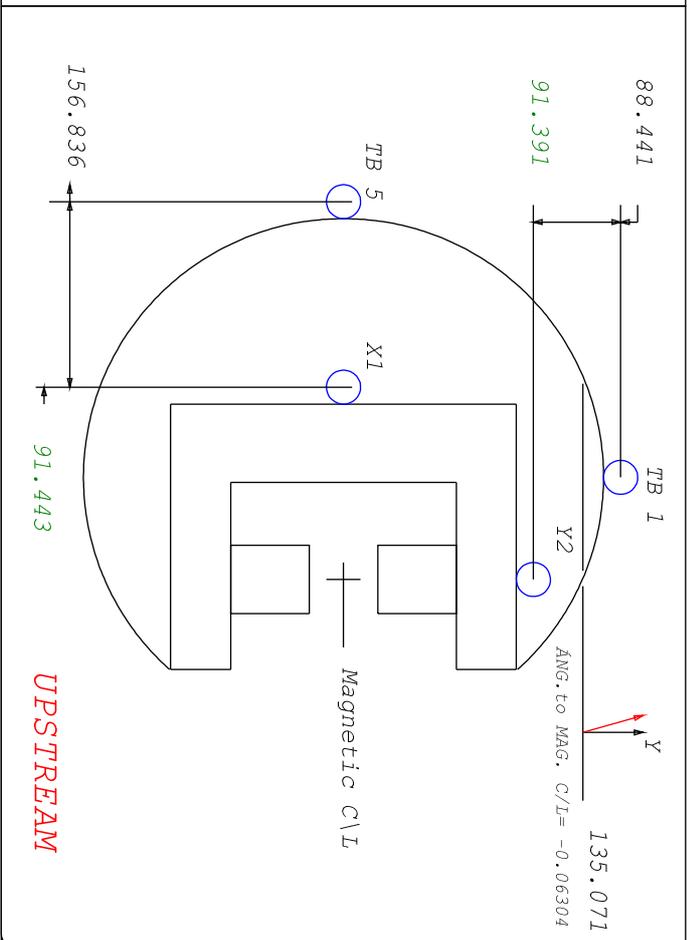
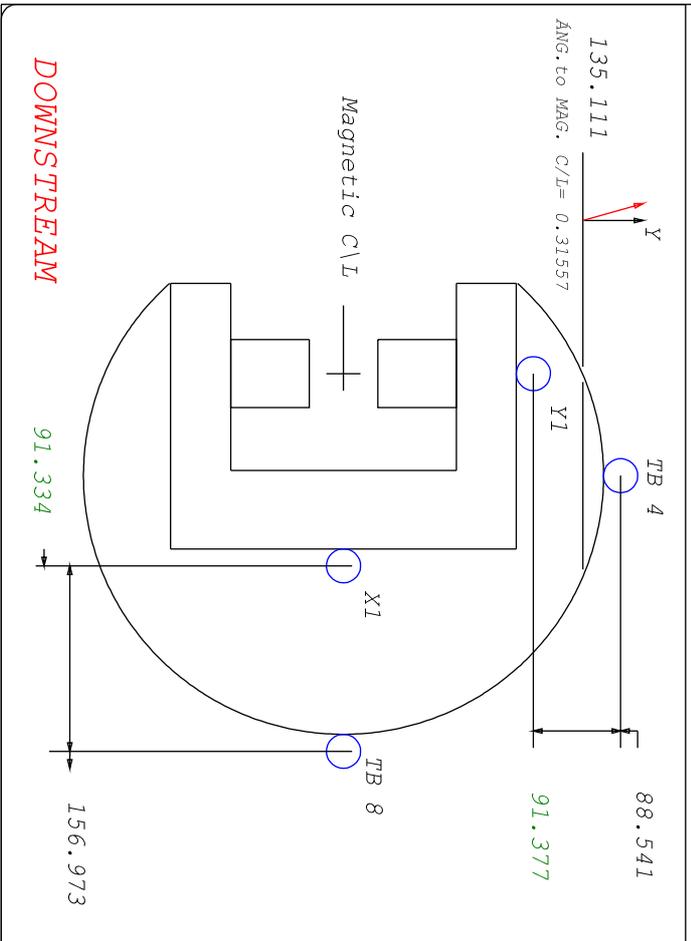
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0259	179.8319	-1558.171
2	0.1701	179.7868	-584.5933
3	0.1114	179.8036	591.3730
4	0.0808	179.9182	1562.1771
5	248.2794	0.1572	-1558.191
6	248.4333	0.0802	-584.5457
7	248.3031	0.2263	591.4036
8	248.3067	0.2544	1562.2932

	C/L Offset	Length
Top Magnetic Structure	-0.005	3380.788
Bottom Magnetic Structure	0.005	3380.867
Strongback	0.430	3399.879

Dimensions in mm

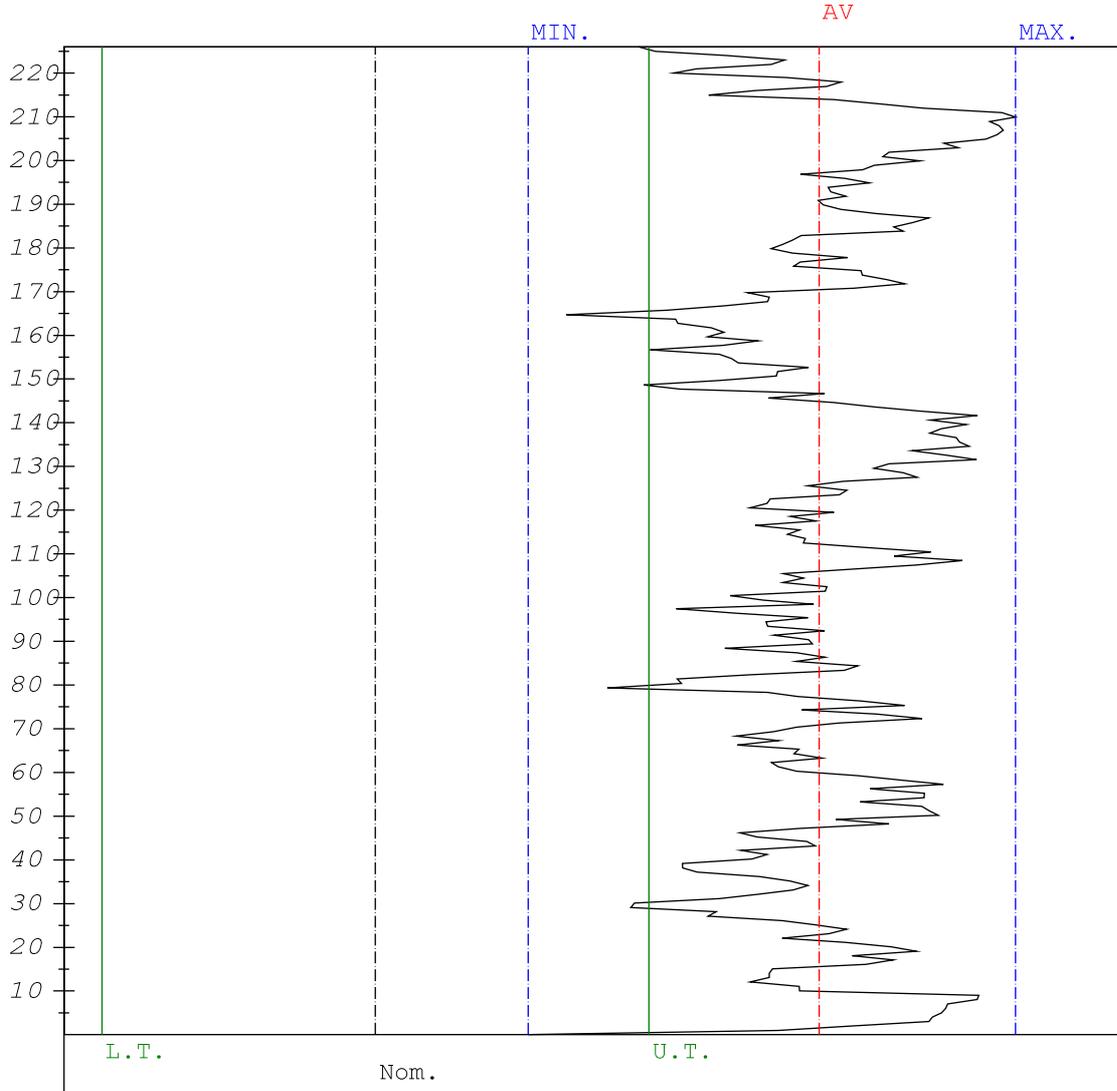
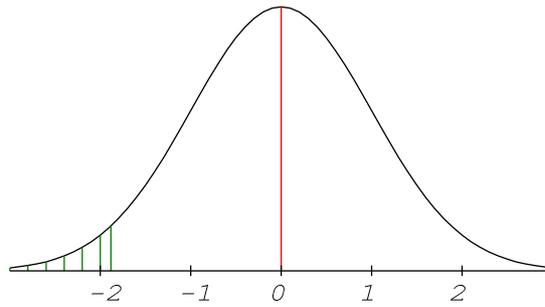
Angles in mrad



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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 27-SEP-2007
UNDULATOR # 24
DATASET # 0001
PROGRAM VERSION 2.2



Nominal : 4.5000	Averag : 5.3112	Cent.-Dev. : 0.8112
Up. Tol. : 0.5	Maximum : 5.6699	U.Tol.Ex. > : 97.0 %
Low.Tol. : -0.5	Minimum : 4.7791	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1653	In Tolerance: 3.0 %
Outlier : 0	Distribution : NOR	Dimension : mrad

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Statistical Evaluation Pole Tip Gap Angle Post Magnetic Alignment</p>	<p>DATE: 27-SEP-2007 UNDULATOR # 24 DATASET # 0001 PROGRAM VERSION 2.2</p>
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