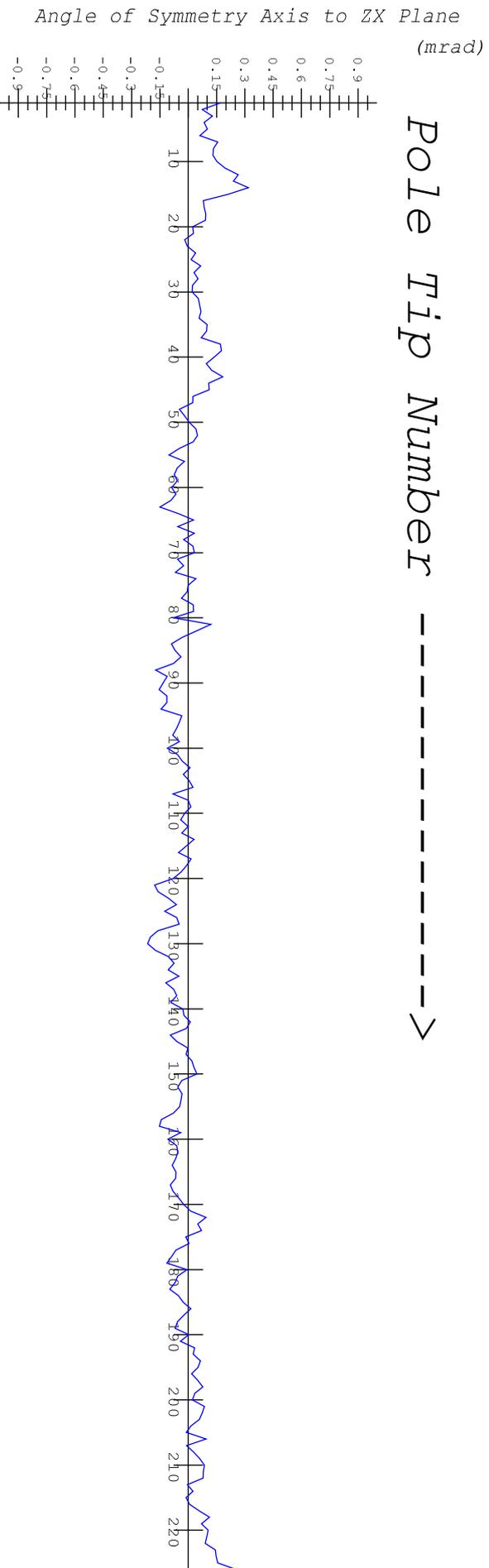


Pole Tip Number ----->



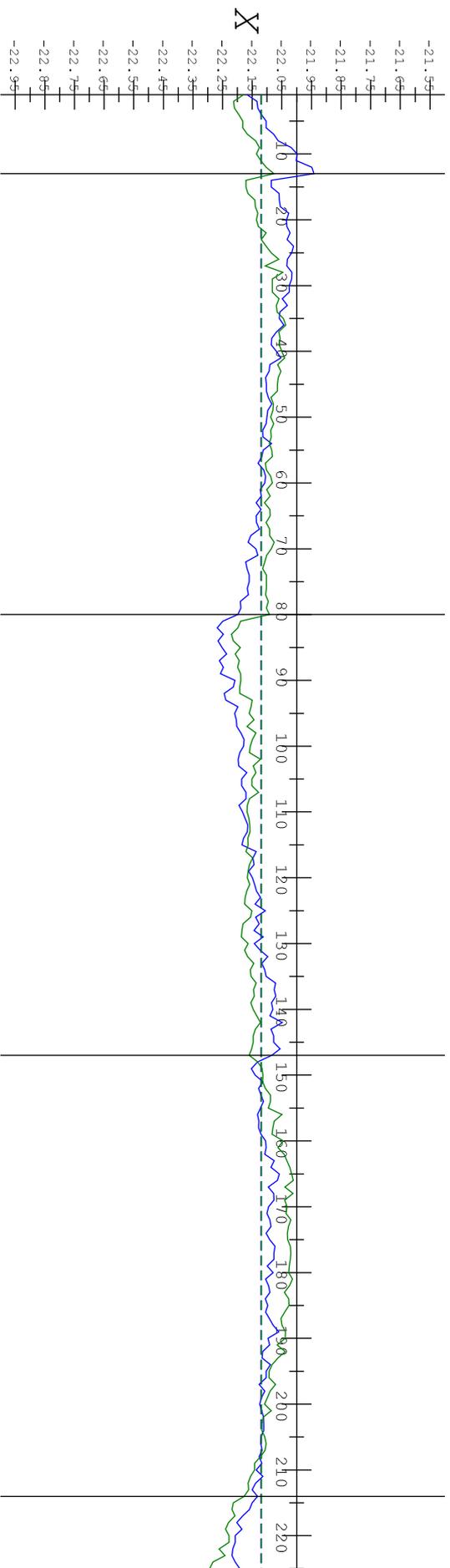
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

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 UNDUULATOR # 17
 VERSION 1.6

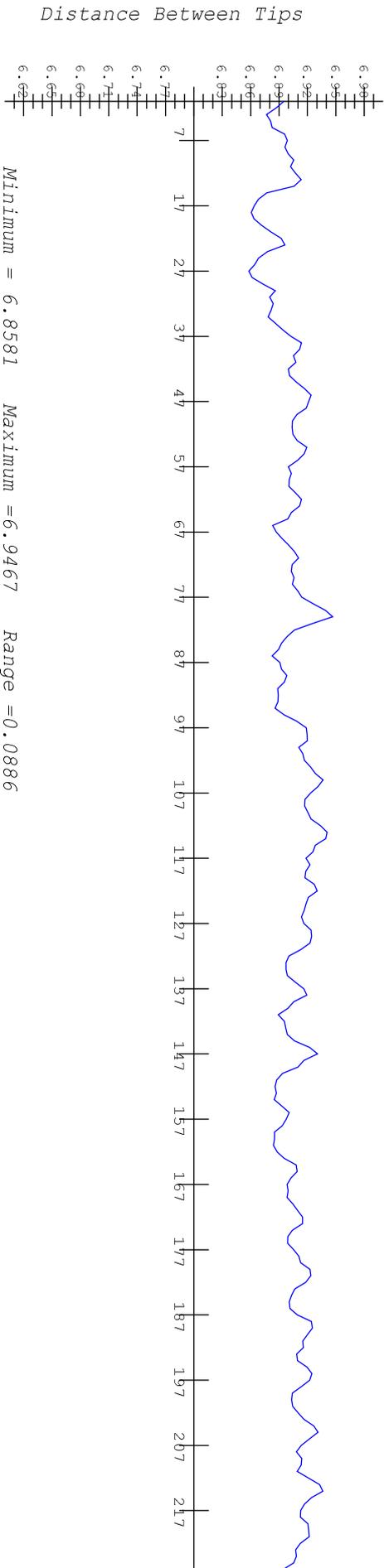
Pole Tip Number ----->



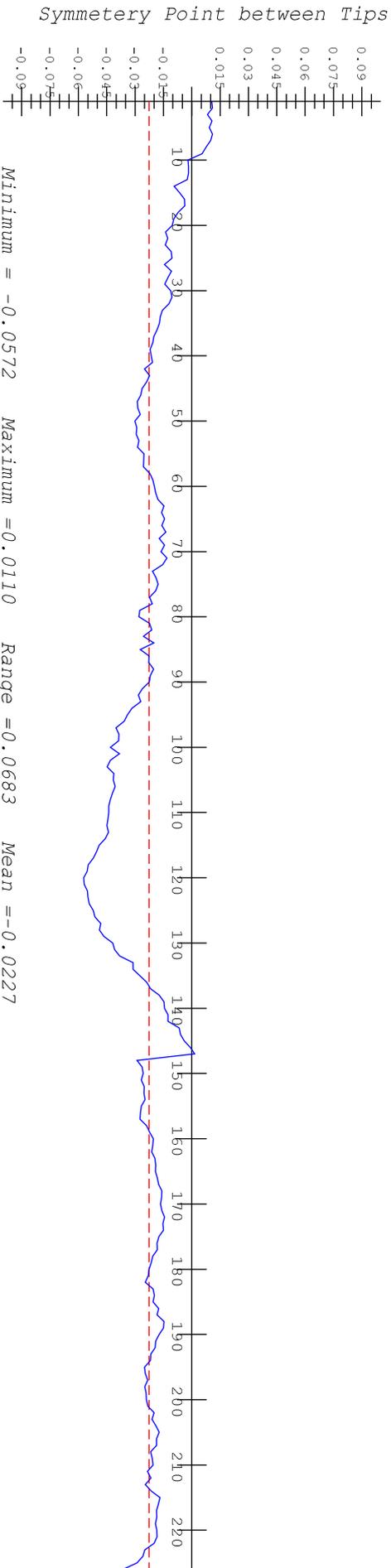
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Undulator Pole Tip Location
 Post Magnetic Alignment

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 VERSION 1.6



Pole Tip Number ----->



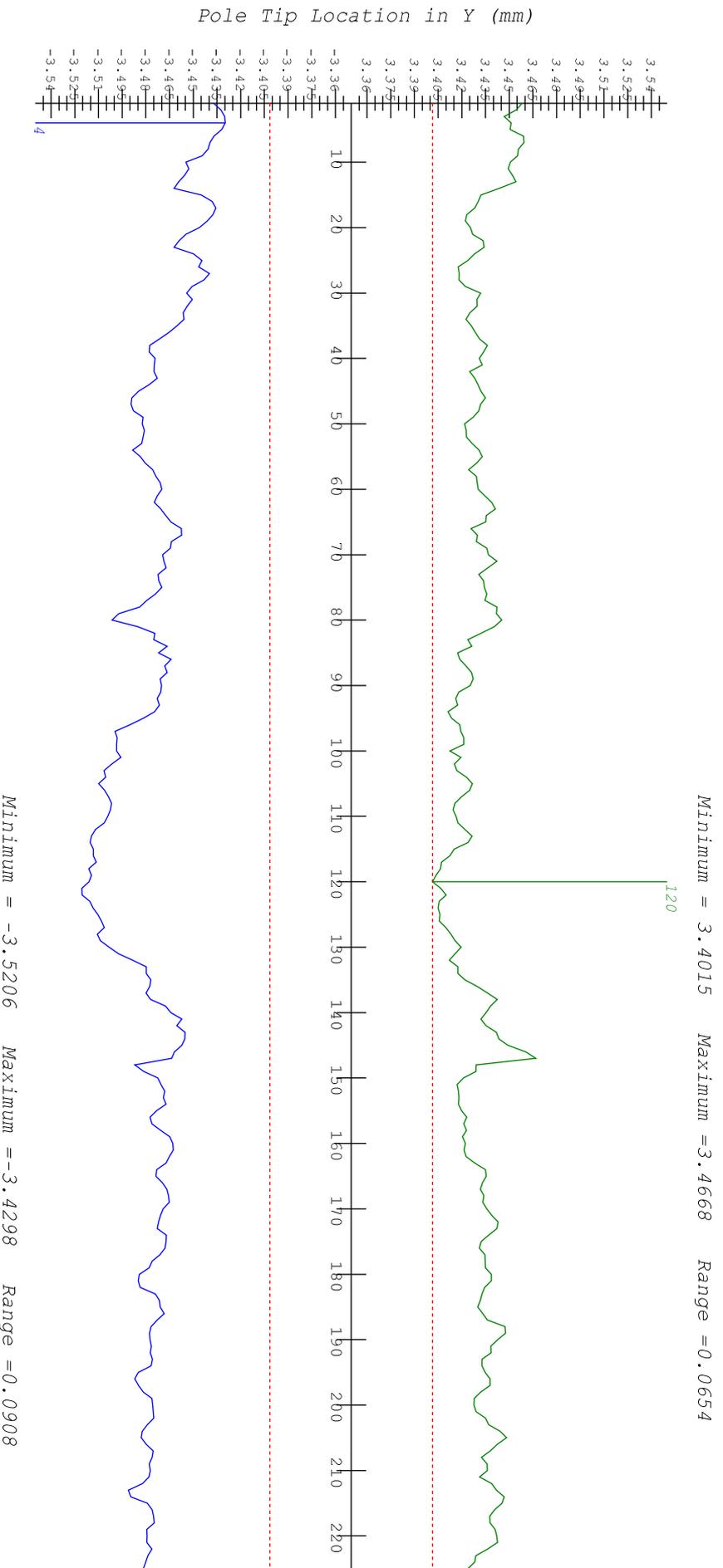
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L

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Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8029



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

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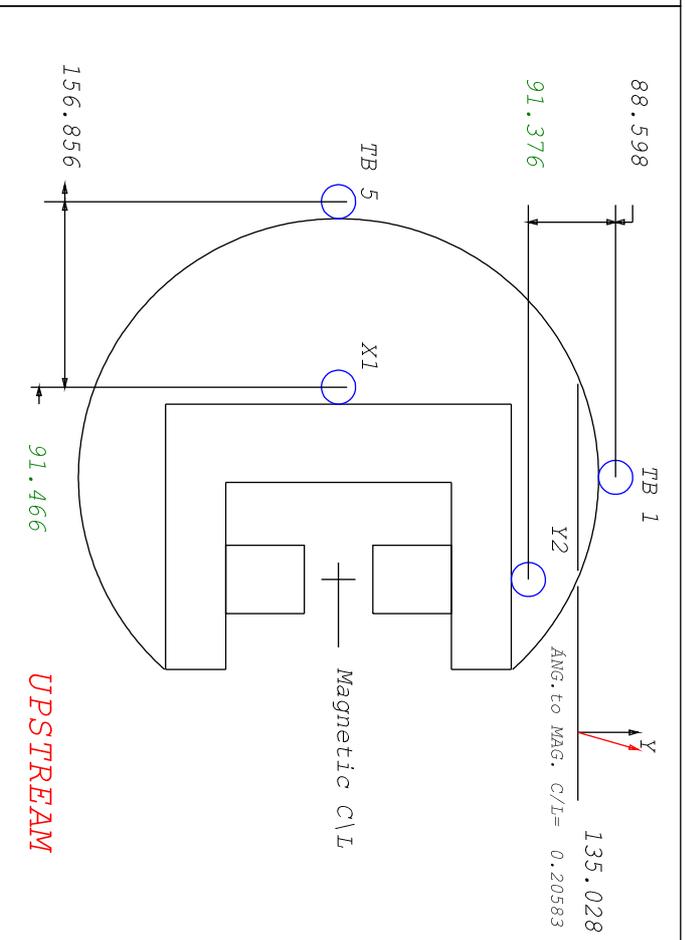
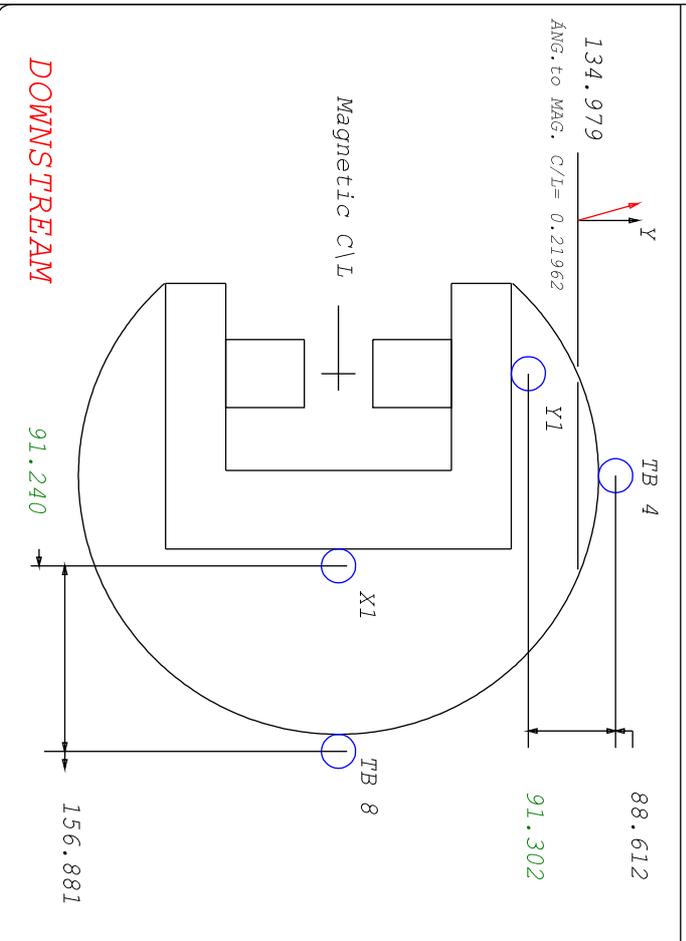
TOOLING BALL LOCATIONS

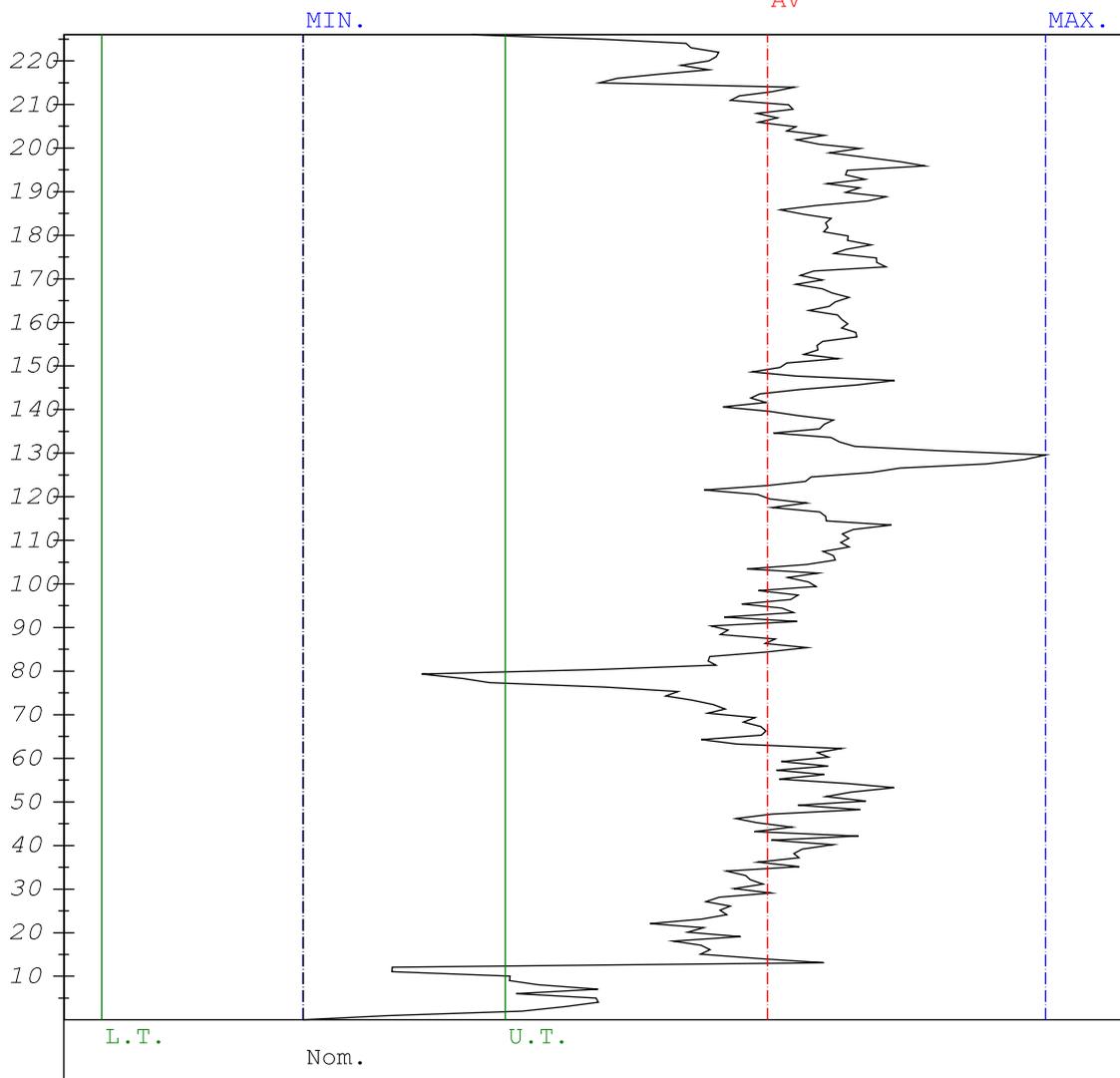
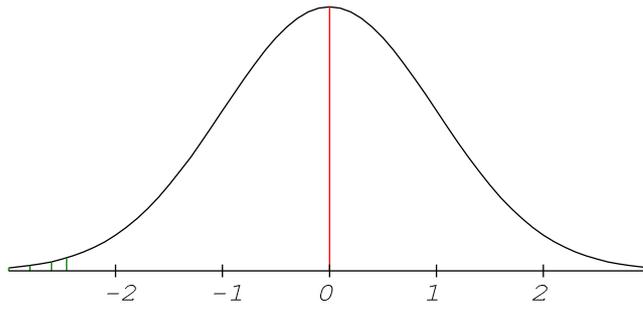
NUM.	X	Y	Z
1	-0.0950	179.9736	-1558.332
2	-0.1357	179.7671	-584.6667
3	-0.1760	179.7795	591.2766
4	-0.2412	179.9141	1562.0353
5	248.3220	0.0494	1558.230
6	248.1677	0.0317	-584.5302
7	248.0003	-0.0310	591.5175
8	248.1215	-0.0820	1562.1644

	C/L Offset	Length
Top Magnetic Structure	0.046	3381.078
Bottom Magnetic Structure	-0.046	3381.233
Strongback	0.307	3399.920

Dimensions in mm

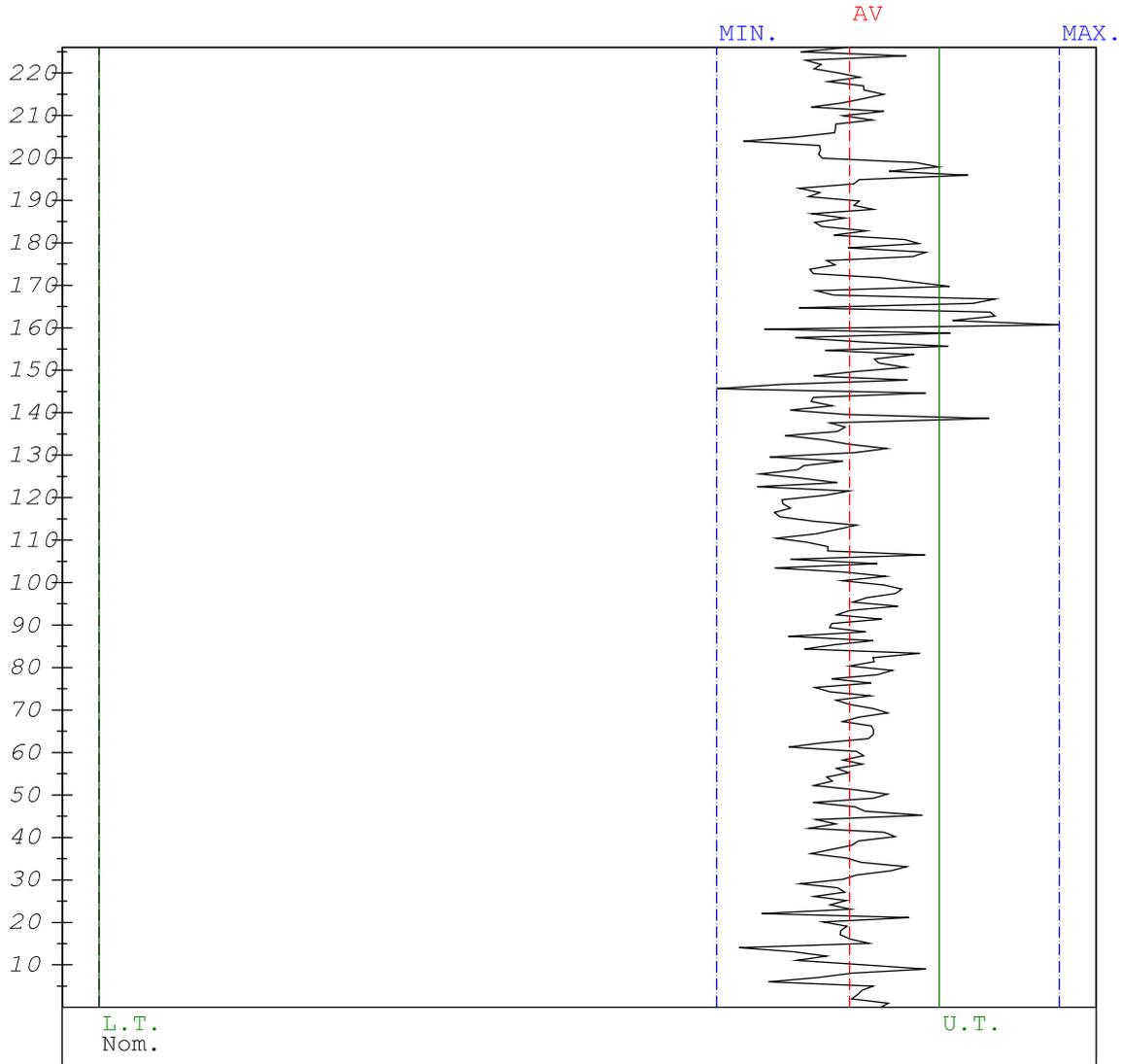
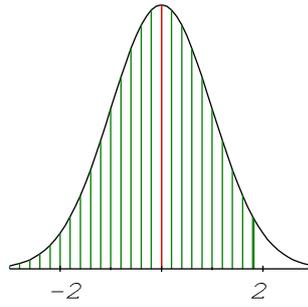
Angles in mrad





Nominal : 4.5000	Averag : 5.6499	Cent.-Dev. : 1.1499
Up. Tol. : 0.5	Maximum : 6.3392	U.Tol.Ex. > : 99.3 %
Low.Tol. : -0.5	Minimum : 4.4993	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2644	In Tolerance: 0.7 %
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: 30-MAR-2007 UNDULATOR # 17 VERSION 1.6</p>
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Nominal : 0.0000	Averag : 0.0134	Cent.-Dev. : 0.0059
Up. Tol. : 0.015	Maximum : 0.0171	U.Tol.Ex. > : 3.3 %
Low.Tol. : 0	Minimum : 0.0110	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.0009	In Tolerance: 96.7 %
Outlier : 0	Distribution : NOR	Dimension : mm

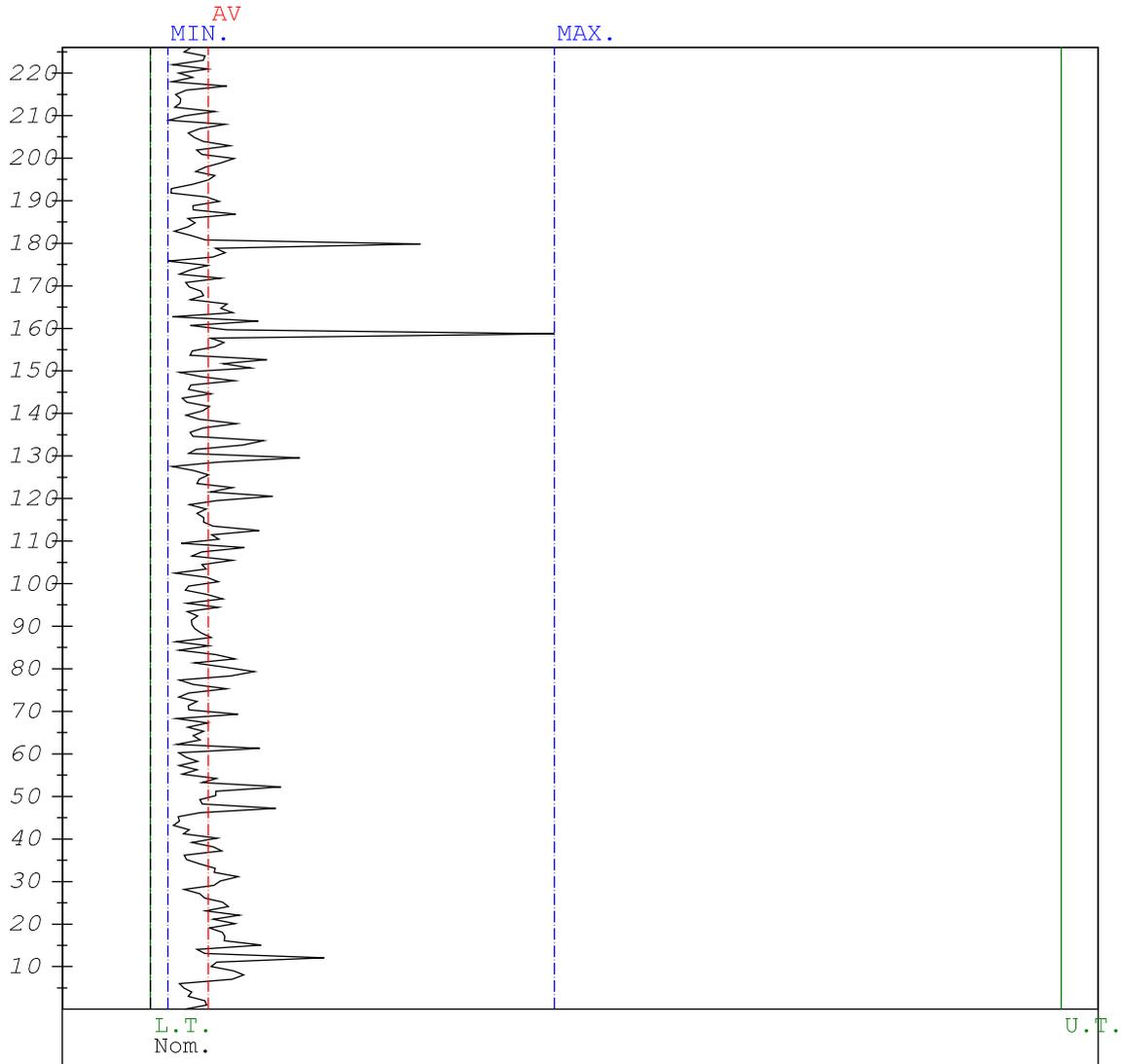
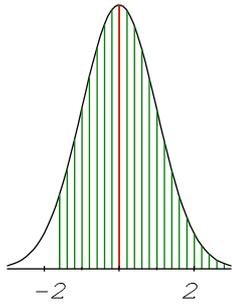
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LEITZ CMM

Statistical Evaluation
Top Pole Tip Form
Post Magnetic Alignment

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UNDULATOR # 17

VERSION 1.6



Nominal : 0.0000	Averag : 0.001	Cent.-Dev. :-0.0065
Up. Tol. : 0.015	Maximum : 0.0067	U.Tol.Ex. > : 0.0 %
Low.Tol. : 0	Minimum : 0.0003	L.Tol.Ex. < : 5.5 %
Spl.Size : 226	Stand.-Dev.: 0.0006	In Tolerance: 94.5 %
Outlier : 0	Distribution : NOR	Dimension : mm

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Statistical Evaluation Bottom Pole Tip Form Post Magnetic Alignment</p>	<p>DATE: 30-MAR-2007 UNDULATOR # 17 VERSION 1.6</p>
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