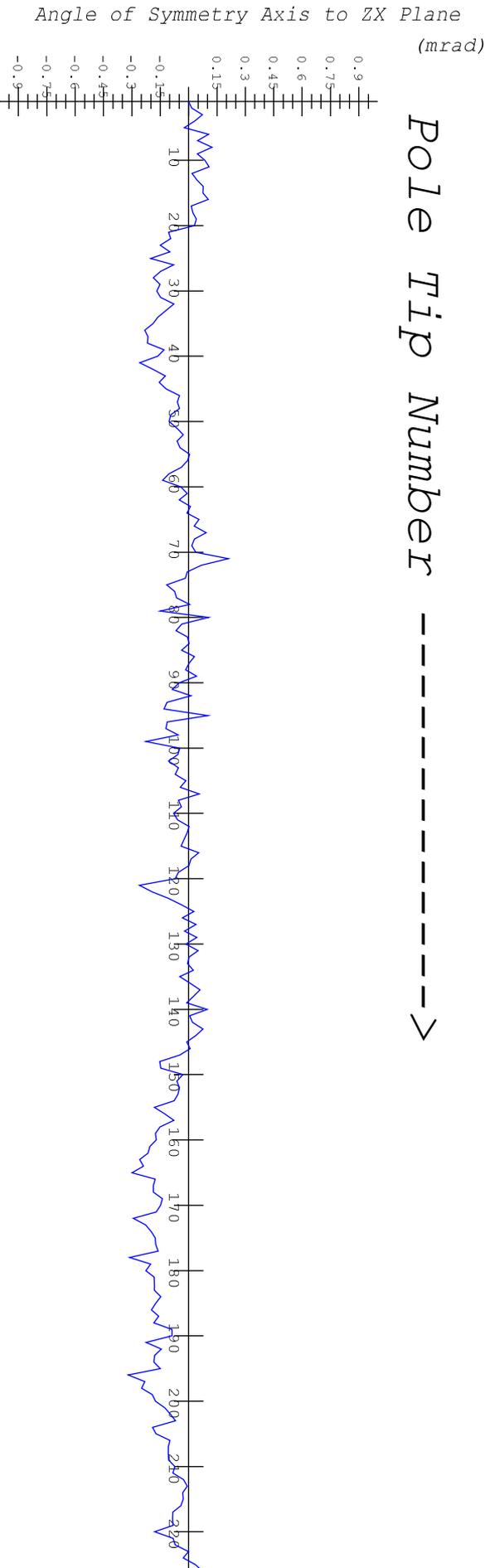


Pole Tip Number ----->



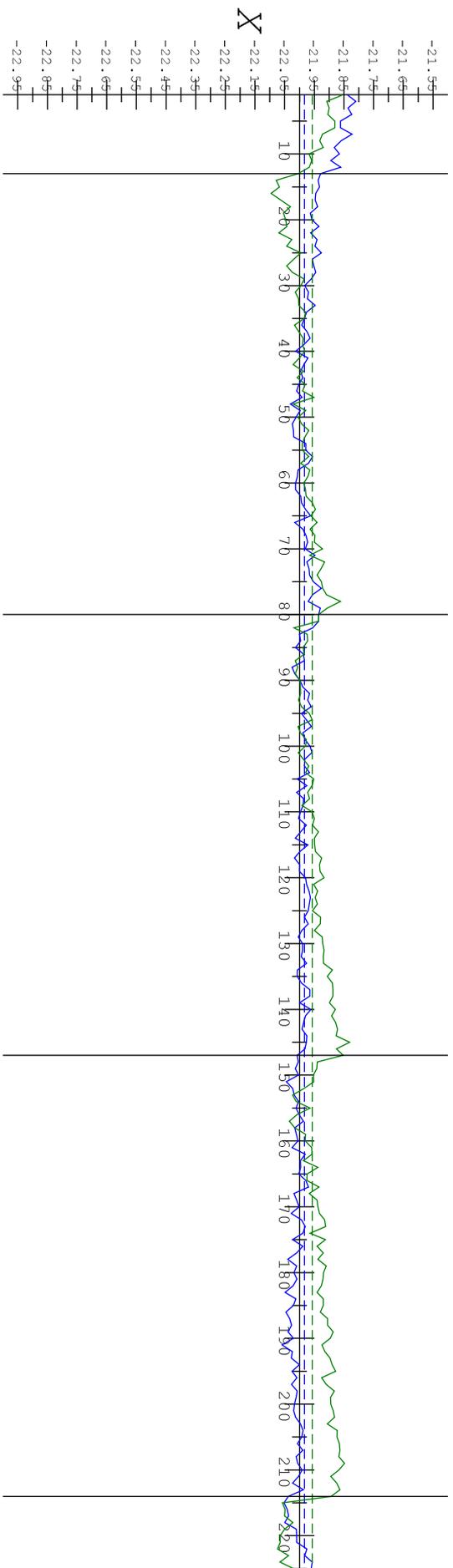
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
 Included Angle is the angle between the Upper and Lower Pole Tips

**SLAC**  
 LCLS-MMF  
 LEITZ CMM

Undulator Pole Tip Angles  
 Post Magnetic Alignment

DATE: 26-JUL-2007  
 UNDUULATOR # 07  
 DATASET # 0001  
 PROGRAM VERSION 2.0

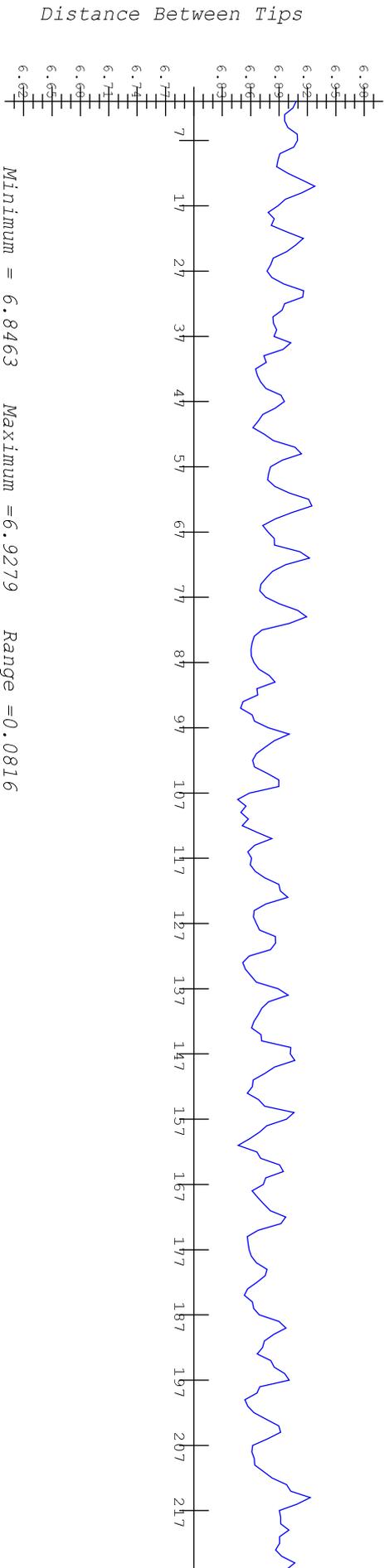
# Pole Tip Number ----->



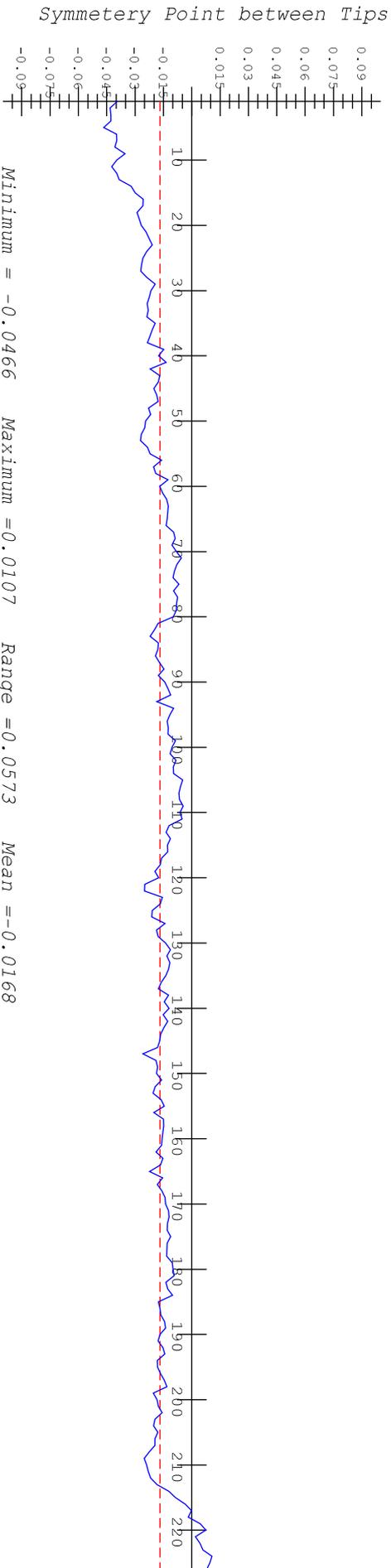
**SLAC**  
 LCLS-MMF  
 LEITZ CMM

Undulator Pole Tip Location  
 Post Magnetic Alignment

DATE: 26-JUL-2007  
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 DATASET # 0001  
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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

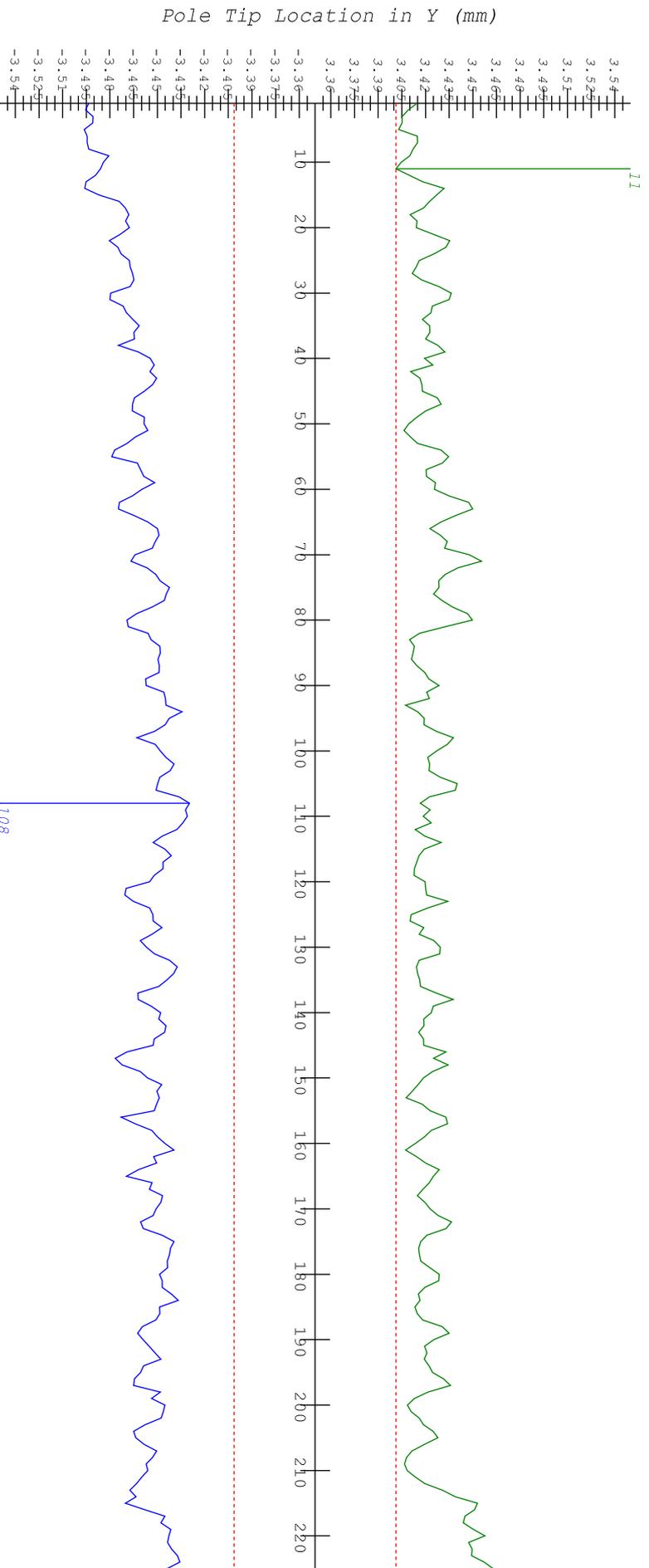
**SLAC**  
 LCLS-MMF  
 LEITZ CMM

Undulator Pole Tip Location  
 Post Magnetic Alignment

DATE: 26-JUL-2007  
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 DATASET # 0001  
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Maximum Chamber Gap = 6.8027

Minimum = 3.4013    Maximum = 3.4629    Range = 0.0616



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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LCLS-MMF  
LEITZ CMM

Undulator Pole Tip Location  
Post Magnetic Alignment

DATE: 26-JUL-2007  
UNDULATOR # 07  
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PROGRAM VERSION 2.0



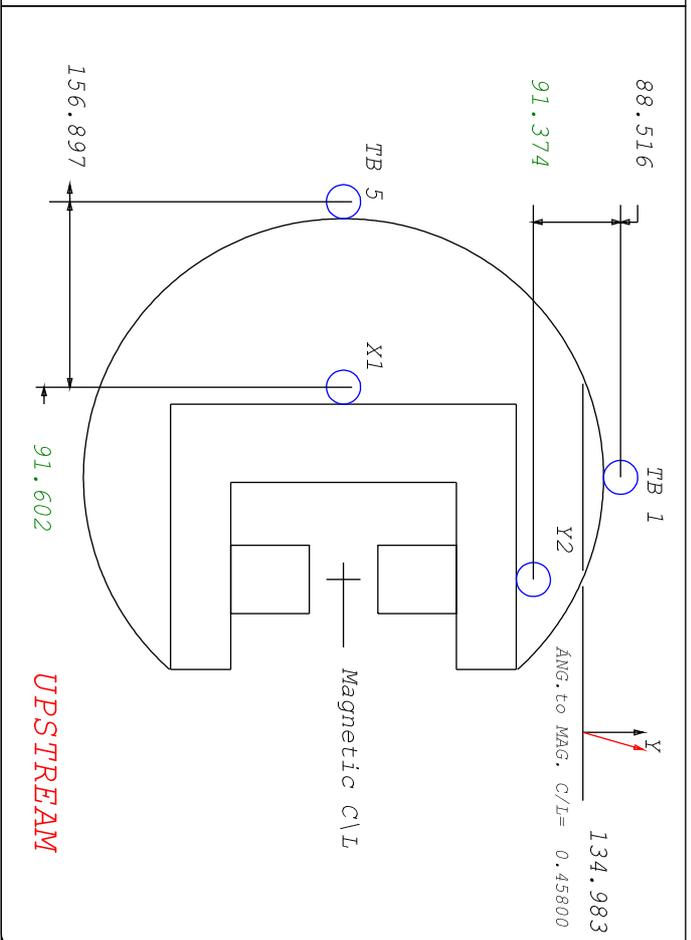
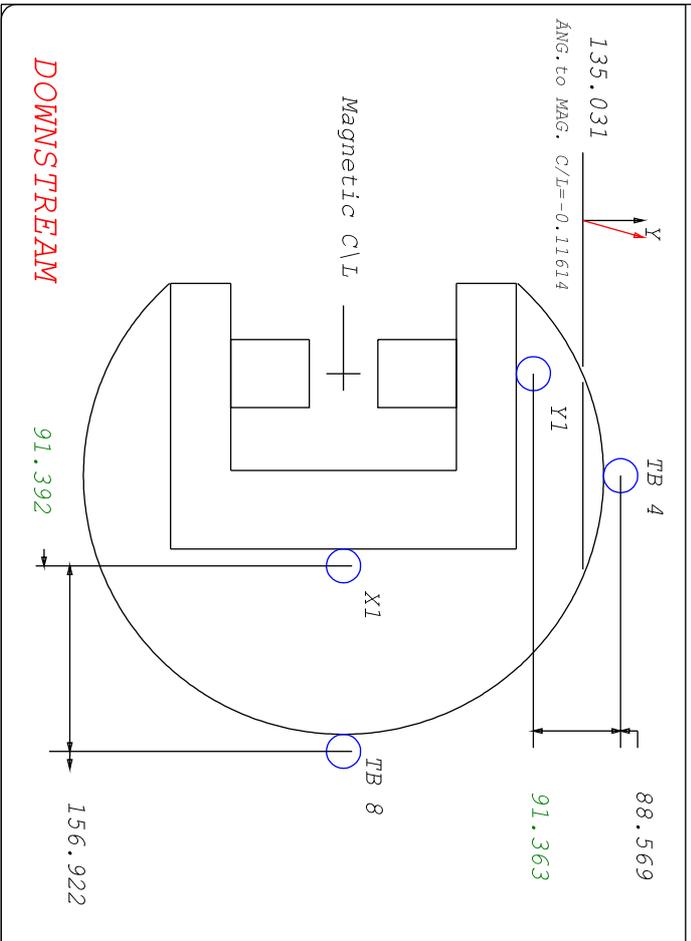
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2116	179.8898	-1558.464
2	0.1037	179.8562	-584.7602
3	0.0158	179.8699	591.1602
4	0.0133	179.9322	1561.9315
5	248.4993	-0.0081	-1558.318
6	248.3713	0.0820	-584.6828
7	248.3248	0.0252	591.3204
8	248.3139	-0.0115	1562.1513

	C/L Offset	Length
Top Magnetic Structure	-0.056	3381.126
Bottom Magnetic Structure	0.056	3381.319
Strongback	0.242	3399.887

Dimensions in mm

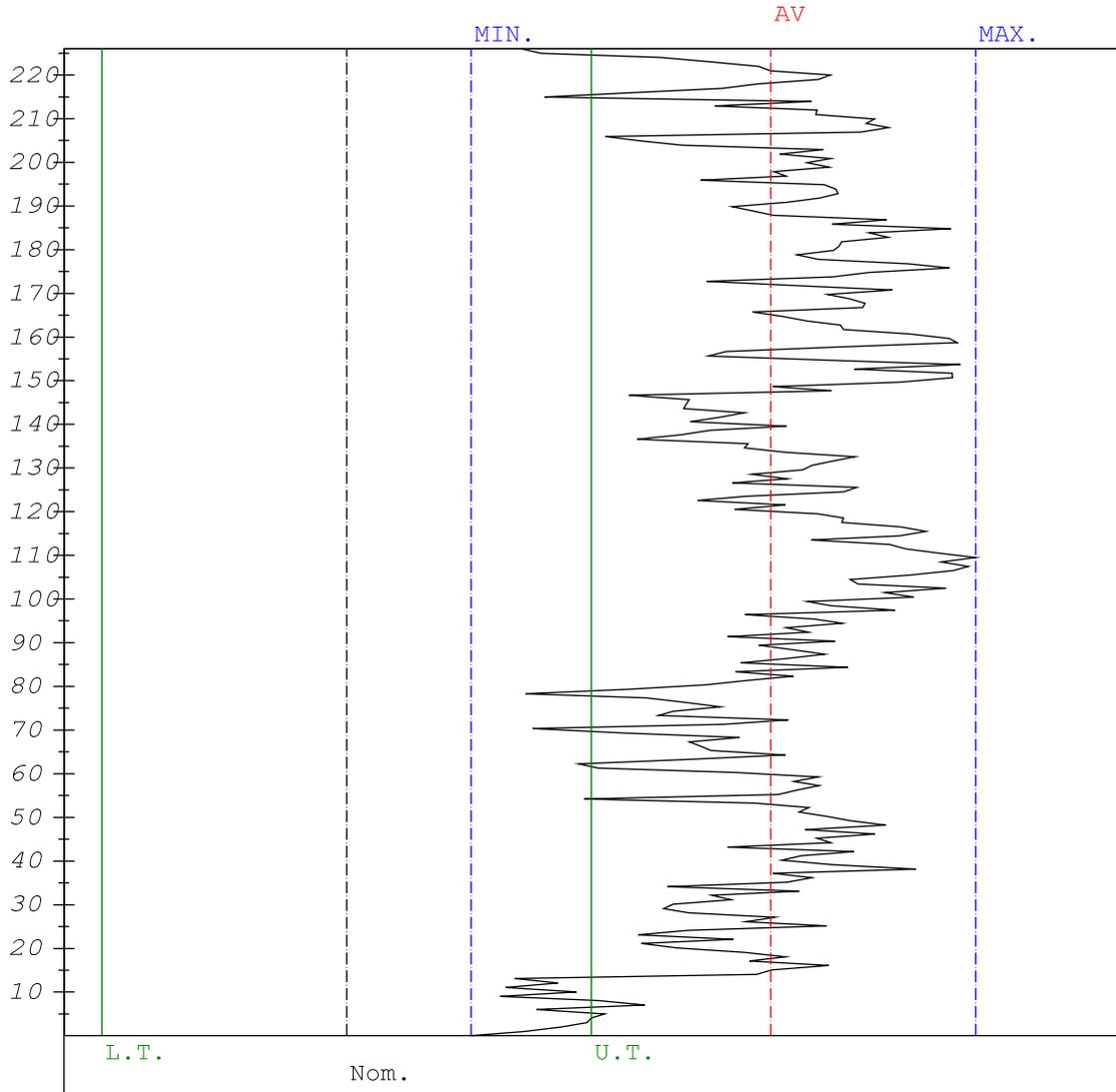
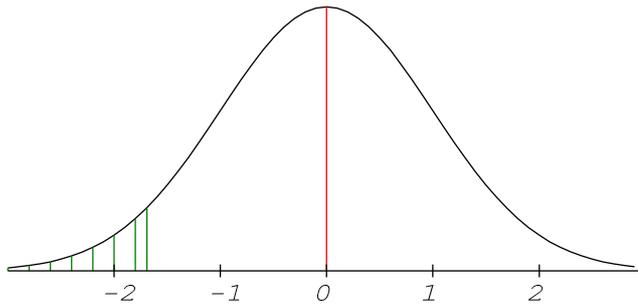
Angles in mrad



**SLAC**  
LCLS-MMF  
LEITZ CMM

Undulator Dimensional Fiducialization  
Post Magnetic Alignment

DATE: 26-JUL-2007  
UNDULATOR # 07  
DATASET # 0001  
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Nominal : 4.5000	Averag : 5.367	Cent.-Dev. : 0.867
Up. Tol. : 0.5	Maximum : 5.7854	U.Tol.Ex. > : 95.5 %
Low.Tol. : -0.5	Minimum : 4.7544	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2169	In Tolerance: 4.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad

<p><b>SLAC</b> LCLS-MMF LEITZ CMM</p>	<p>Statistical Evaluation Pole Tip Gap Angle Post Magnetic Alignment</p>	<p>DATE: 26-JUL-2007 UNDULATOR # 07 DATASET # 0001 PROGRAM VERSION 2.0</p>
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