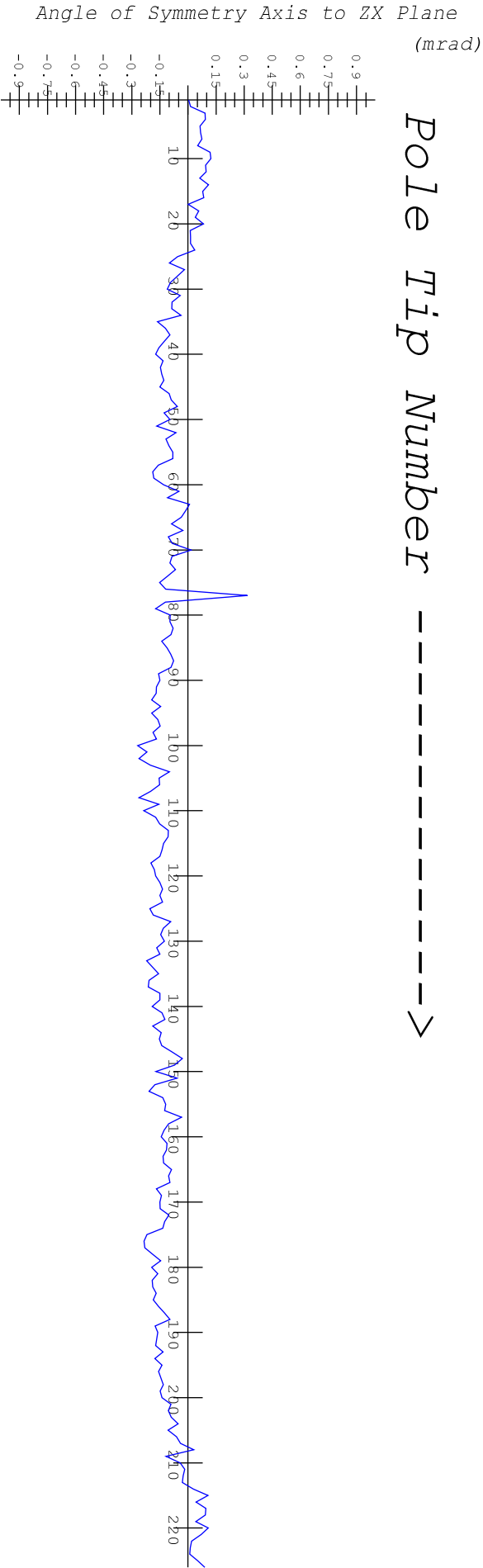
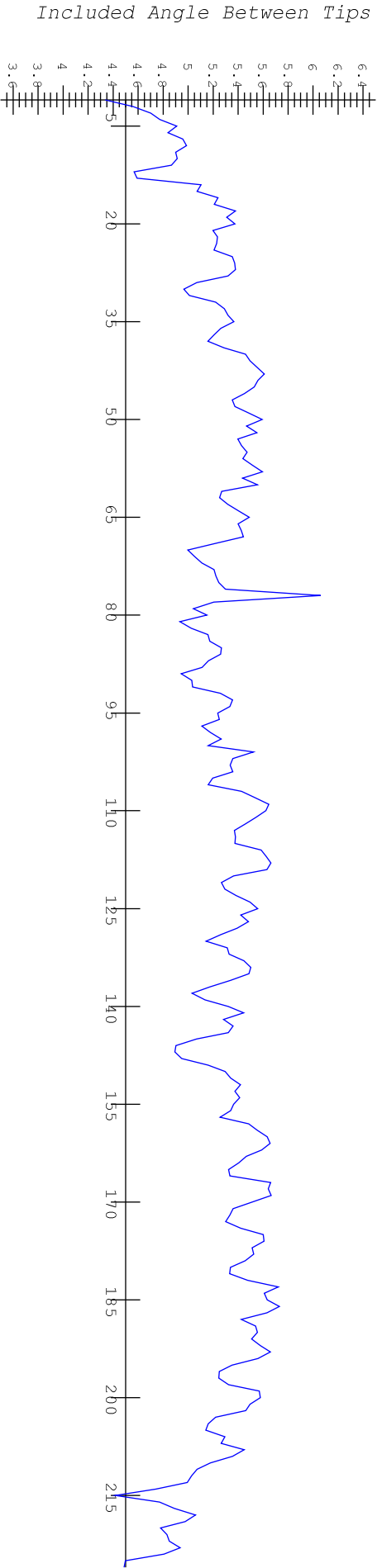




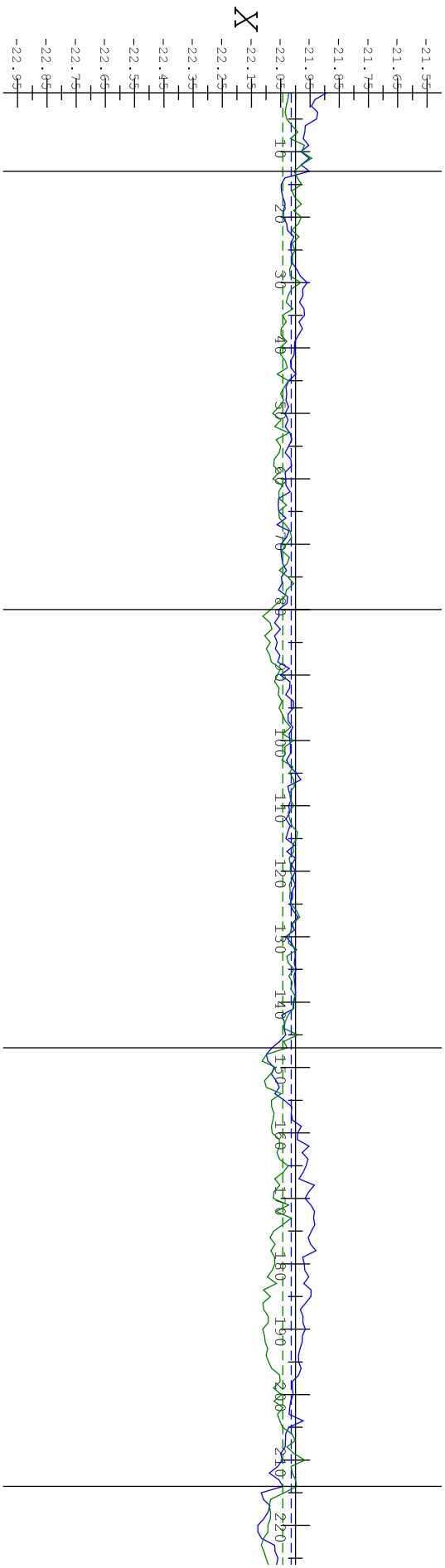
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

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LEITZ CMM

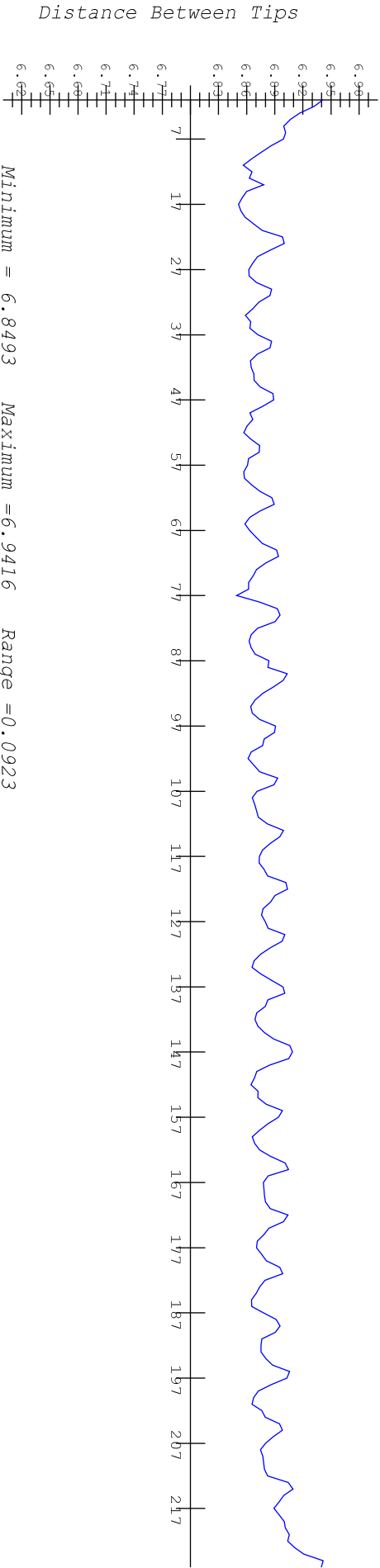
Undulator Pole Tip Angles
Post Magnetic Alignment

DATE: 11-OCT-2007
UNDULATOR # 37
DATASET # 0001
PROGRAM VERSION 2.3

Pole Tip Number ----->

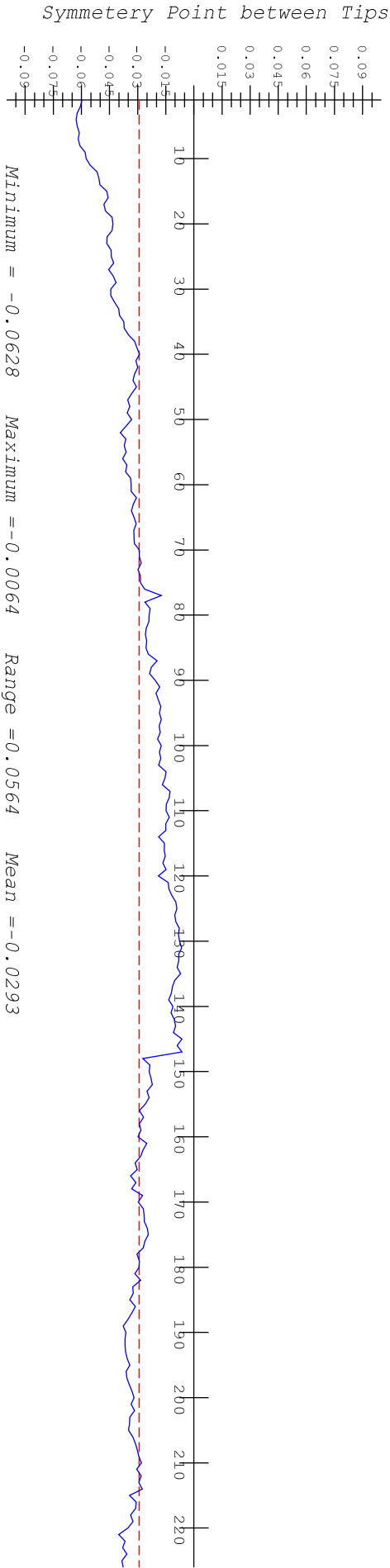


SLAC LCLS-MMF LEITZ CMM	Undulator Pole Tip Location Post Magnetic Alignment	DATE: 11-OCT-2007 UNDULATOR # 37 DATASET # 0001 PROGRAM VERSION 2.3
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in mm

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

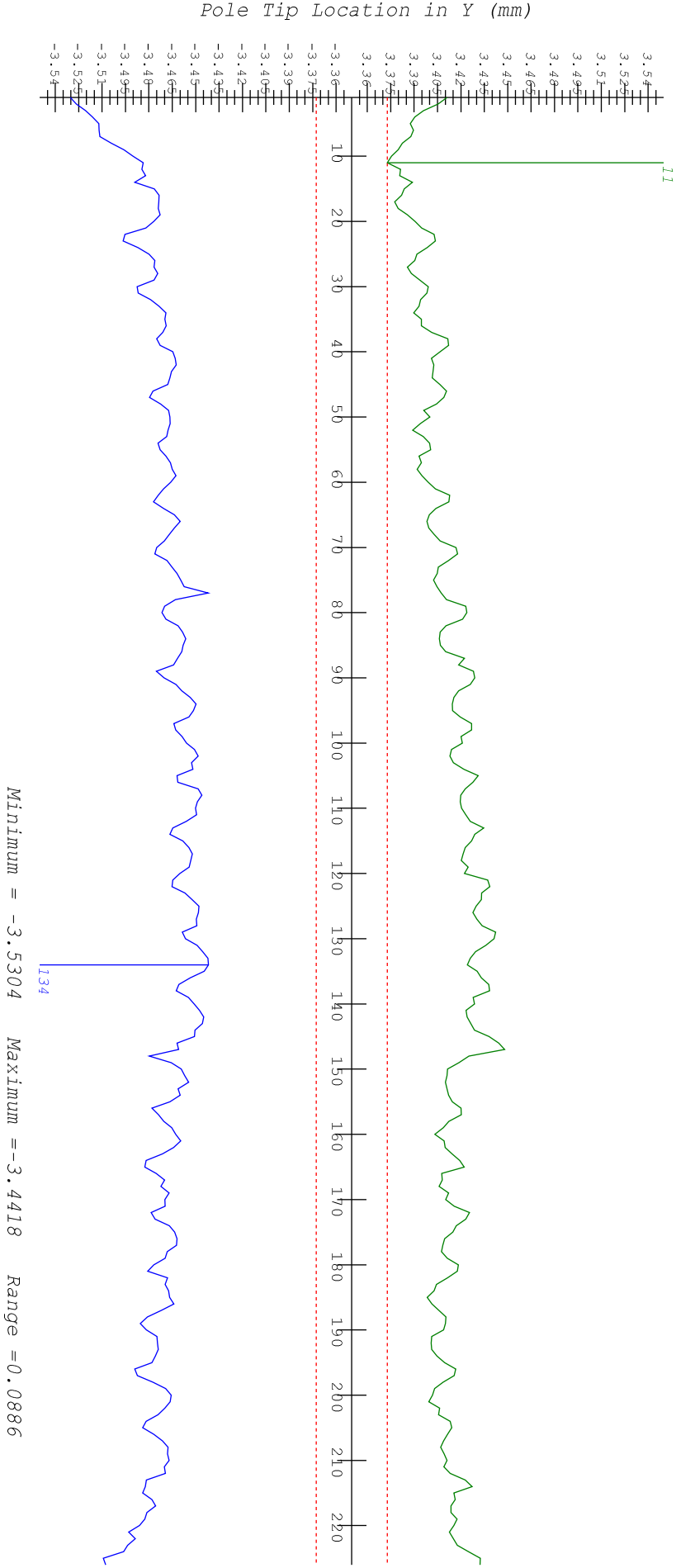
SLAC
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LEITZ CMM

Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 11-OCT-2007
UNDULATOR # 37
DATASET # 0001
PROGRAM VERSION 2.3

Maximum Chamber Gap = 6.7455

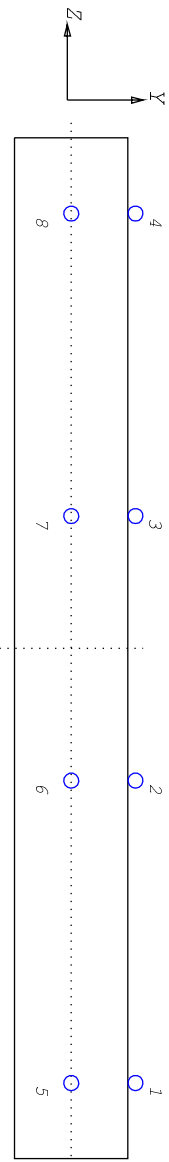
Minimum = 3.3728 Maximum = 3.4480 Range = 0.0753



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)

SLAC LCLS-MMF LEITZ CMM	Undulator Pole Tip Location Post Magnetic Alignment	DATE: 11-OCT-2007 UNDULATOR # 37 DATASET # 0001 PROGRAM VERSION 2.3
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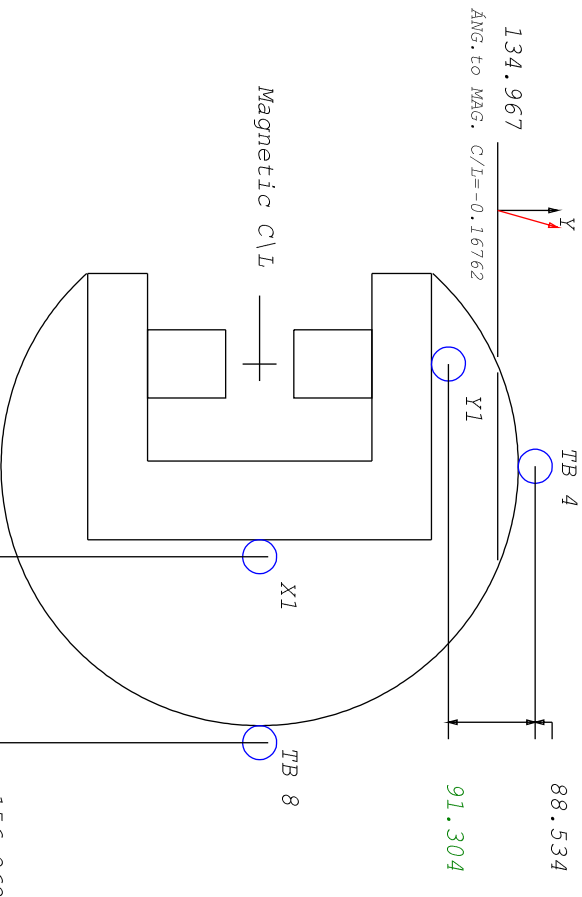


TOOLING BALL LOCATIONS			
NUM.	X	Y	Z
1	0.0519	179.7521	-1558.321
2	0.2428	179.8666	-584.6988
3	-0.1014	179.7386	591.3837
4	0.1370	179.8381	1562.2588
5	248.3227	-0.0366	-1558.214
6	248.2416	0.0207	-584.6531
7	248.2581	-0.0800	591.4353
8	248.2289	-0.1110	1562.1335

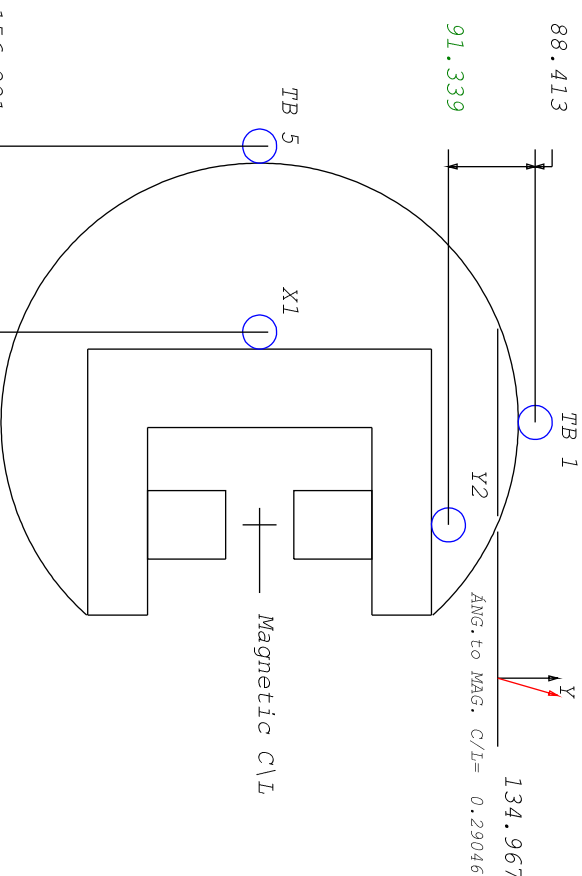
Top Magnetic Structure	C/L Offset	Length
	0.022	3381.087
Bottom Magnetic Structure	-0.022	3380.963
Strongback	0.423	3399.949

Dimensions in mm

Angles in mrad



DOWNSTREAM

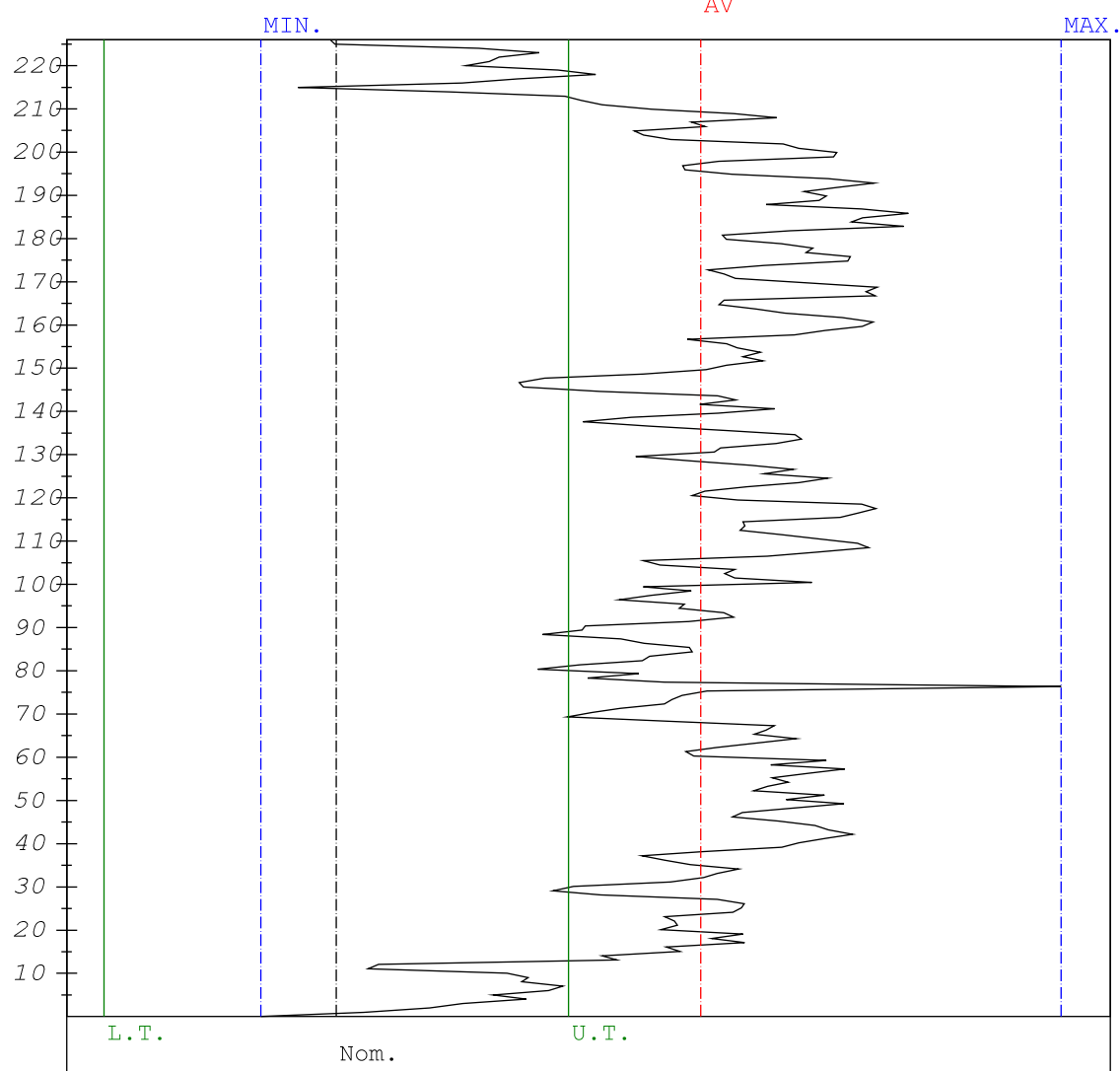
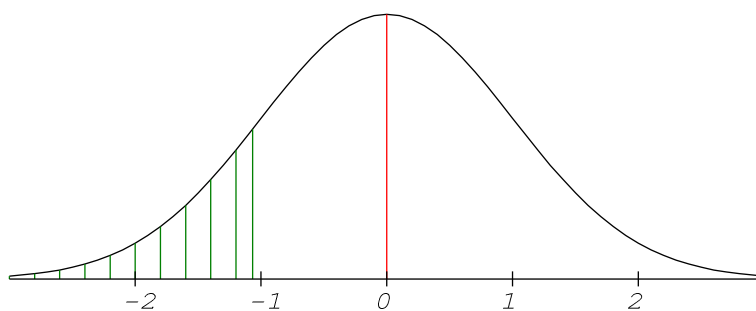


UPSTREAM

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LEITZ CMM

Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 11-OCT-2007
UNDULATOR # 37
DATASET # 0001
PROGRAM VERSION 2.3



Nominal : 4.5000	Averag : 5.2846	Cent.-Dev. : 0.7846
Up. Tol. : 0.5	Maximum : 6.0598	U.Tol.Ex. > : 85.7 %
Low.Tol. : -0.5	Minimum : 4.3375	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2669	In Tolerance: 14.3 %
Outlier : 0	Distribution : NOR	Dimension : mrad

SLAC
LCLS-MMF
LEITZ CMM

Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE: 11-OCT-2007
UNDULATOR # 37
DATASET # 0001
PROGRAM VERSION 2.3