

Pole Tip Number ----->

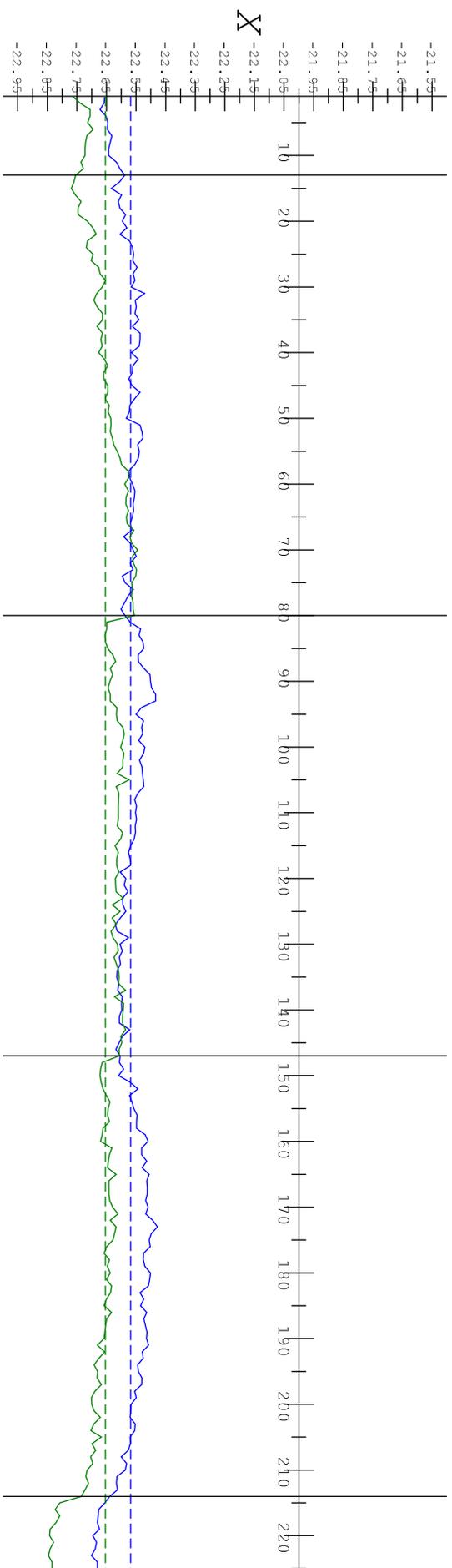
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 02-JUL-2007
 UNDULATOR # 32
 DATASET # 0001
 PROGRAM VERSION 1.9

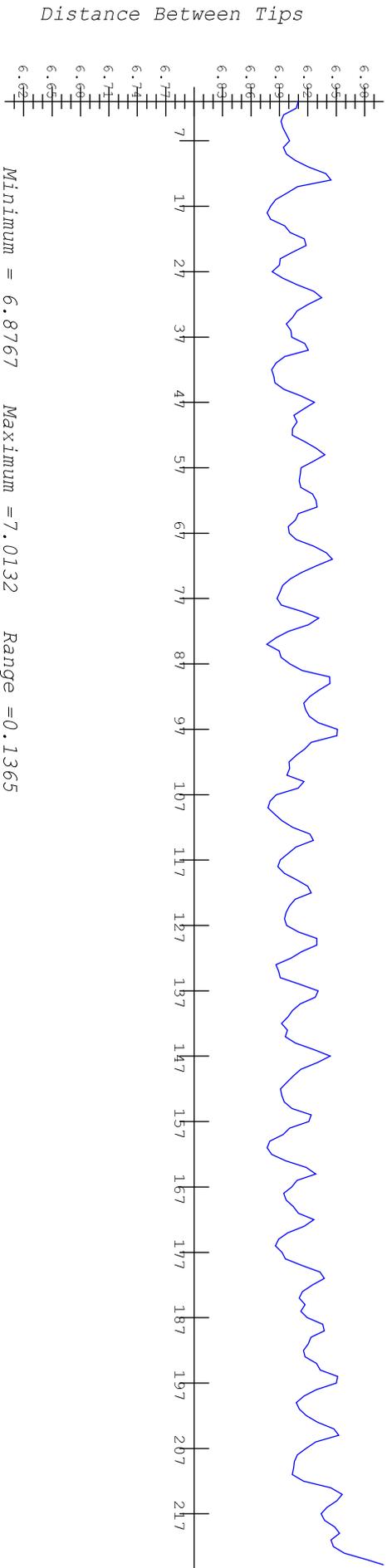
Pole Tip Number ----->



SLAC
 LCLS-MMF
 LEITZ CMM

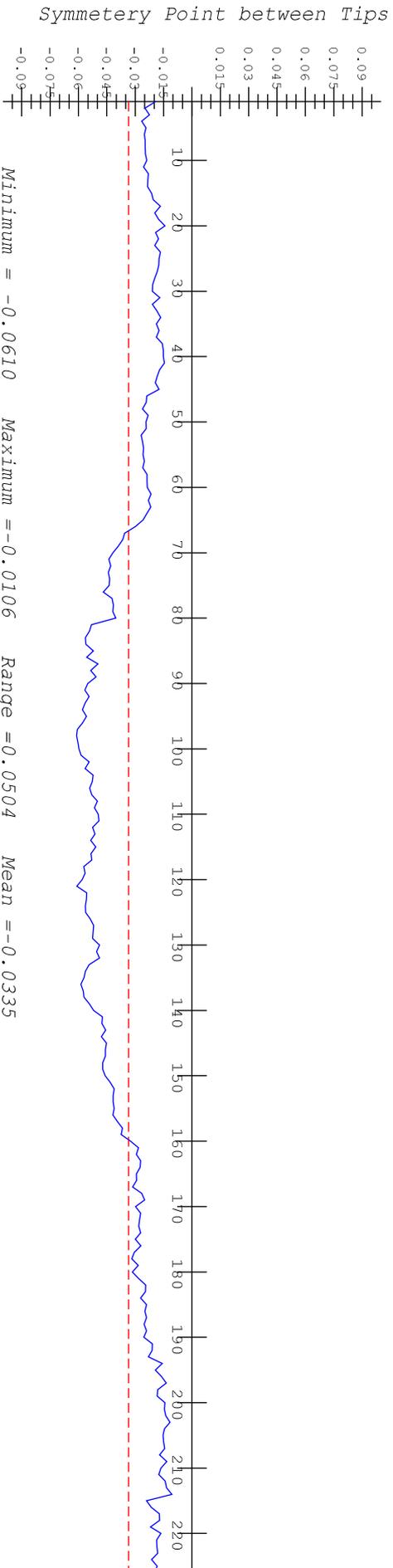
Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 02-JUL-2007
 UNDUULATOR # 32
 DATASET # 0001
 PROGRAM VERSION 1.9



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

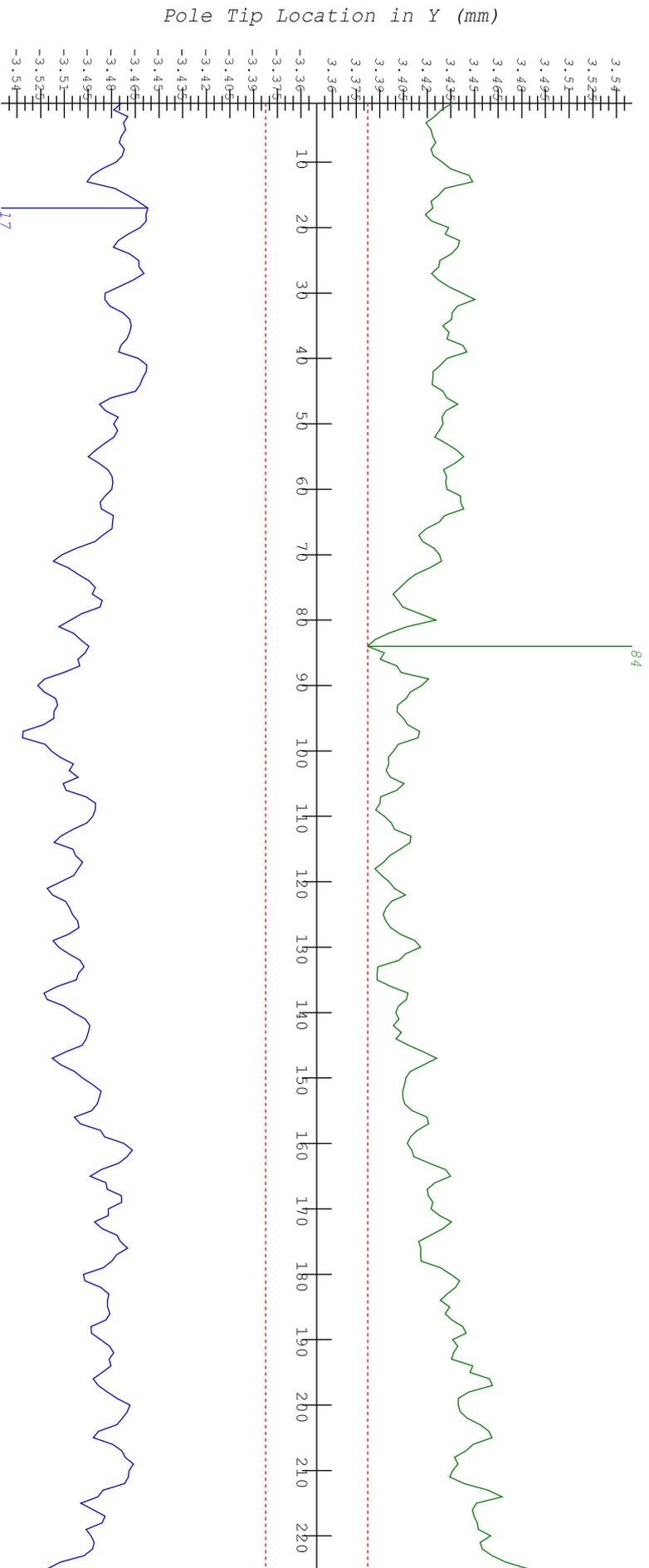
SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 02-JUL-2007
 UNDUULATOR # 32
 DATASET # 0001
 PROGRAM VERSION 1.9

Maximum Chamber Gap = 6.7646

Minimum = 3.3823 Maximum = 3.4867 Range = 0.1043



Minimum = -3.5364 Maximum = -3.4571 Range = 0.0793

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: 02-JUL-2007
UNDULATOR # 32
DATASET # 0001
PROGRAM VERSION 1.9



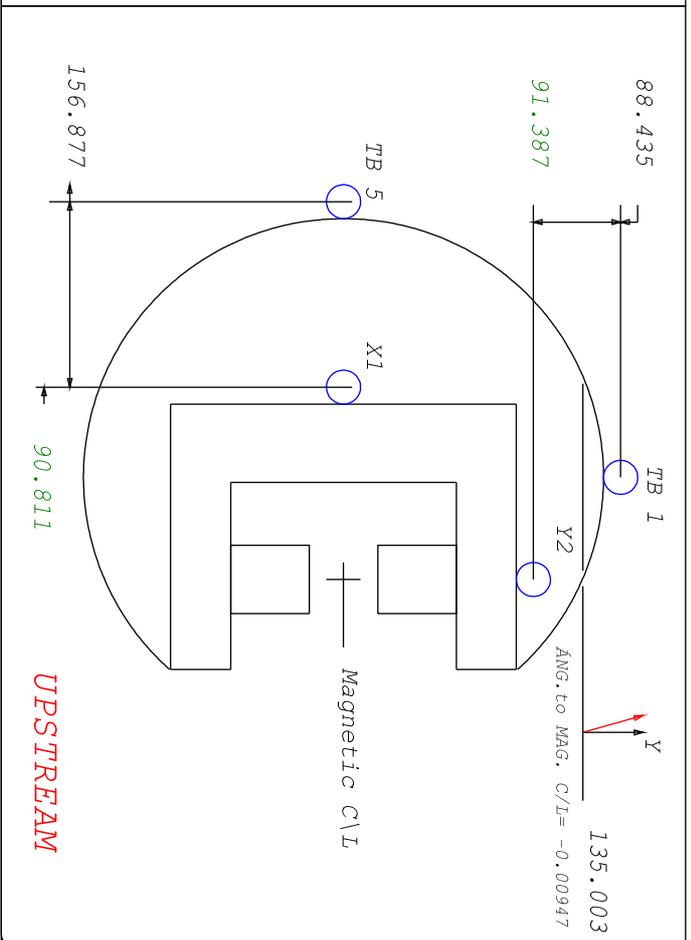
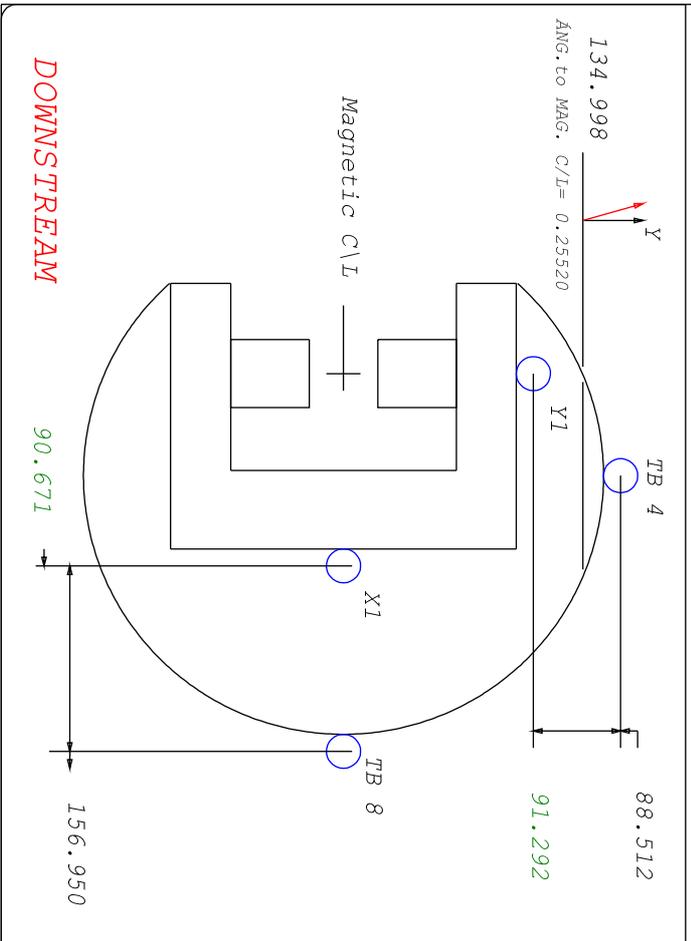
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.5914	179.8216	-1558.058
2	-0.5999	179.7070	-584.5441
3	-0.5120	179.6838	591.5535
4	-0.5785	179.8043	1562.3639
5	247.6884	0.0627	-1558.043
6	247.7713	-0.0074	-584.4166
7	247.7238	-0.0362	591.6148
8	247.6210	0.0137	1562.4725

	C/L Offset	Length
Top Magnetic Structure	-0.040	3380.947
Bottom Magnetic Structure	0.040	3381.285
Strongback	0.437	3400.132

Dimensions in mm

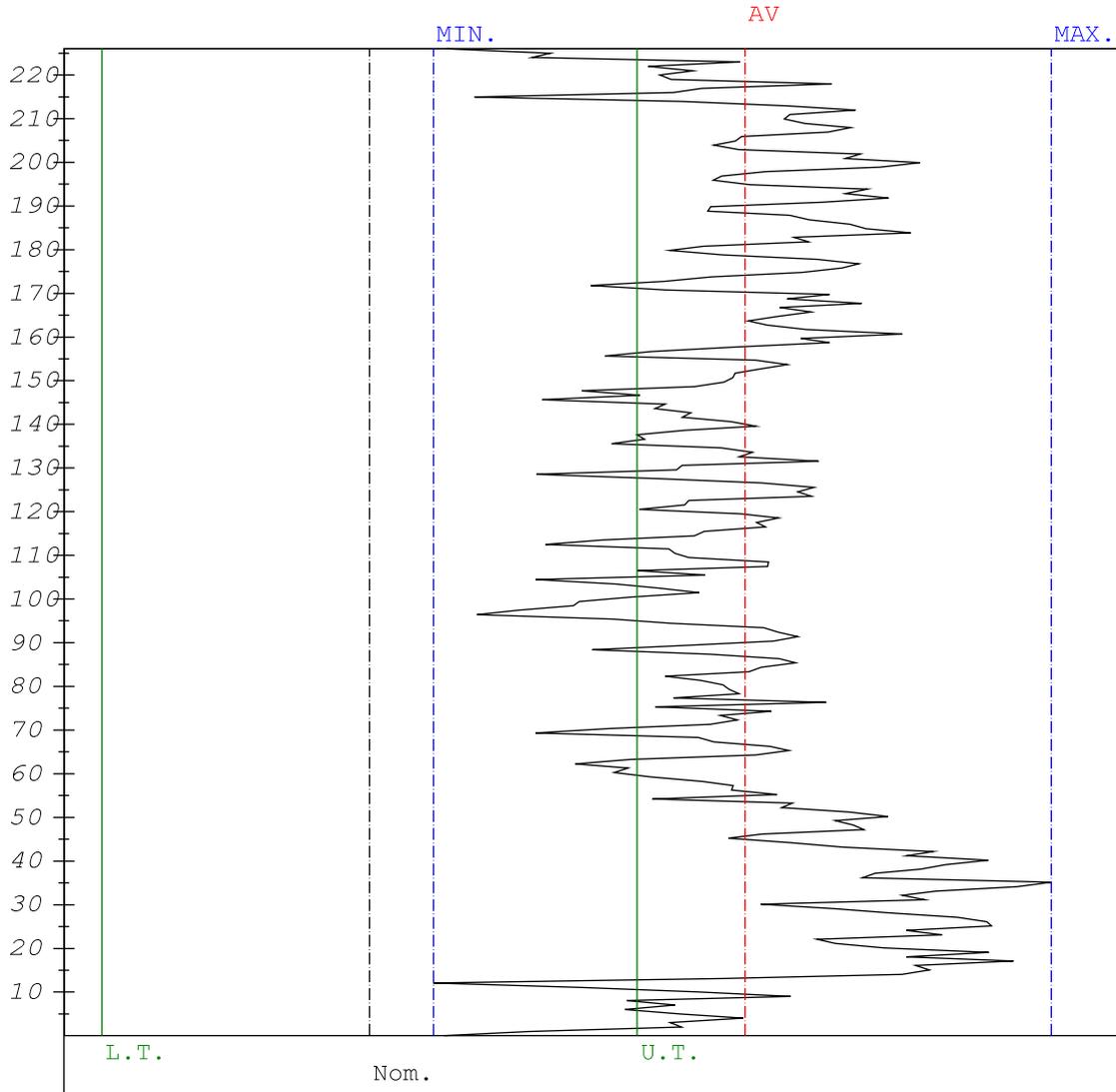
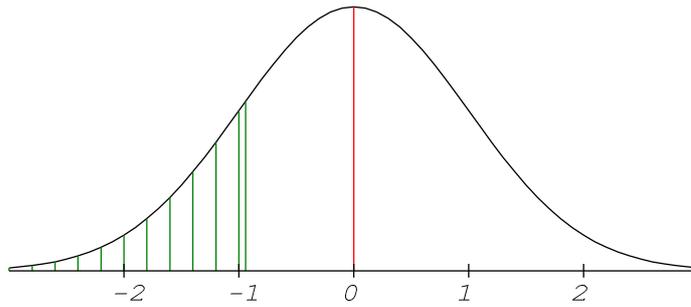
Angles in mrad



SLAC
LCLS-MMF
LEITZ CMM

Undulator Fiducialization
Post Magnetic Alignment

DATE: 02-JUL-2007
UNDULATOR # 32
DATASET # 0001
PROGRAM VERSION 1.9



Nominal : 4.5000	Averag : 5.2016	Cent.-Dev. : 0.7016
Up. Tol. : 0.5	Maximum : 5.7738	U.Tol.Ex. > : 82.6 %
Low.Tol. : -0.5	Minimum : 4.6195	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2144	In Tolerance: 17.4 %
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:02-JUL-2007 UNDULATOR # 32 DATASET # 0001 PROGRAM VERSION 1.9</p>
---	--	---