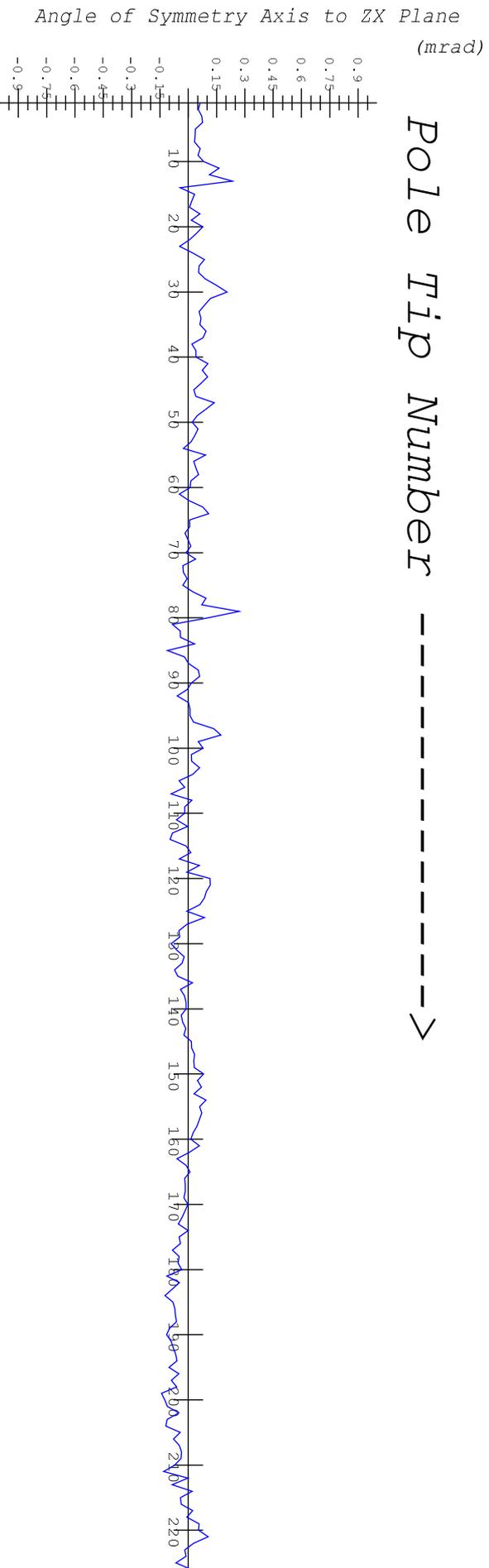


Pole Tip Number ----->



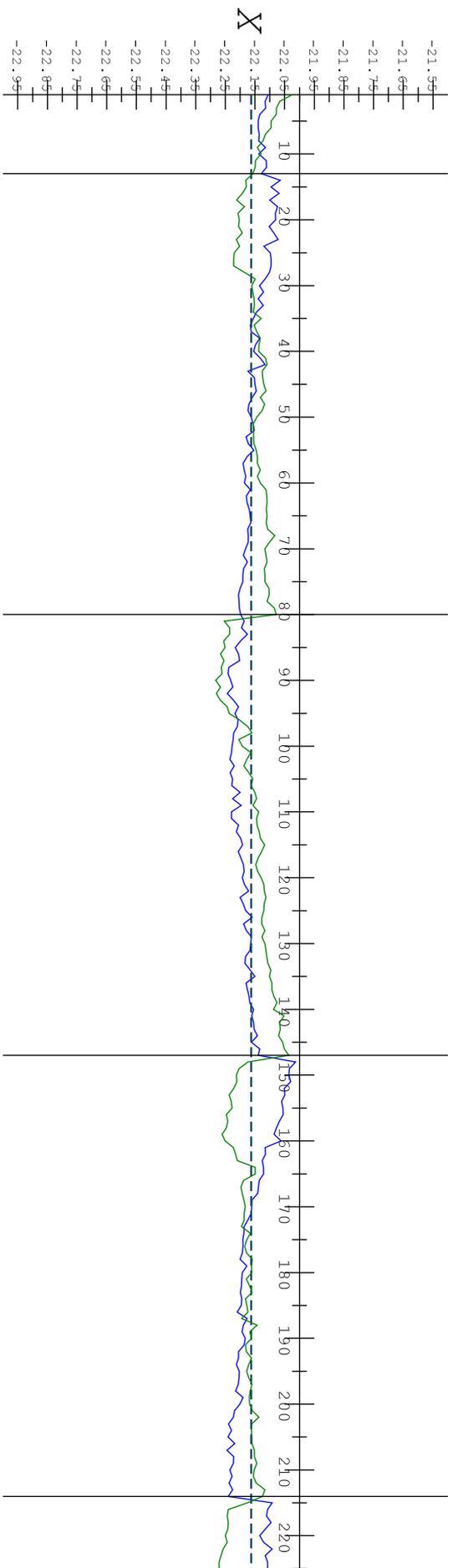
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Angles
 TWIST TEST, WITH FLAT FEET

DATE: 09-OCT-2007
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Pole Tip Number ----->



X values in mm

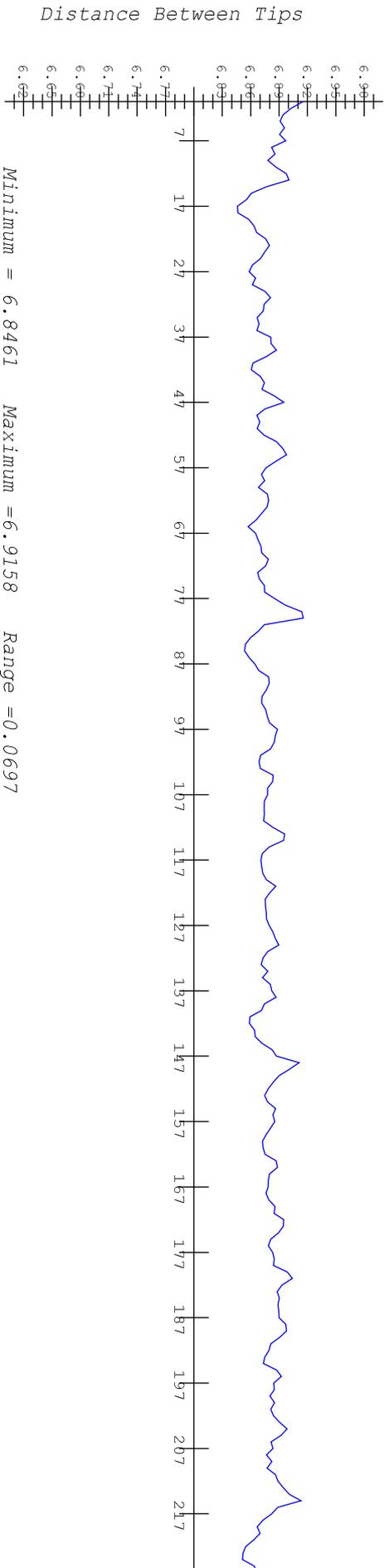
Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L
 Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.161

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 = -22.164

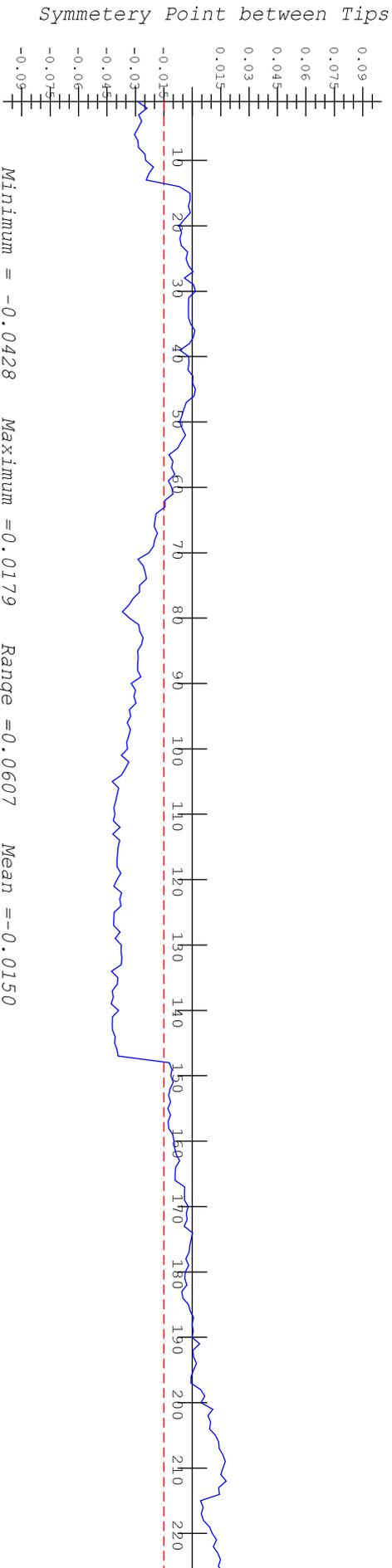
SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Location
 TWIST TEST, WITH FLAT FEET

DATE: 09-OCT-2007
 UNDUULATOR # 24
 DATASET # 0001
 PROGRAM VERSION 2.3



Pole Tip Number ----->



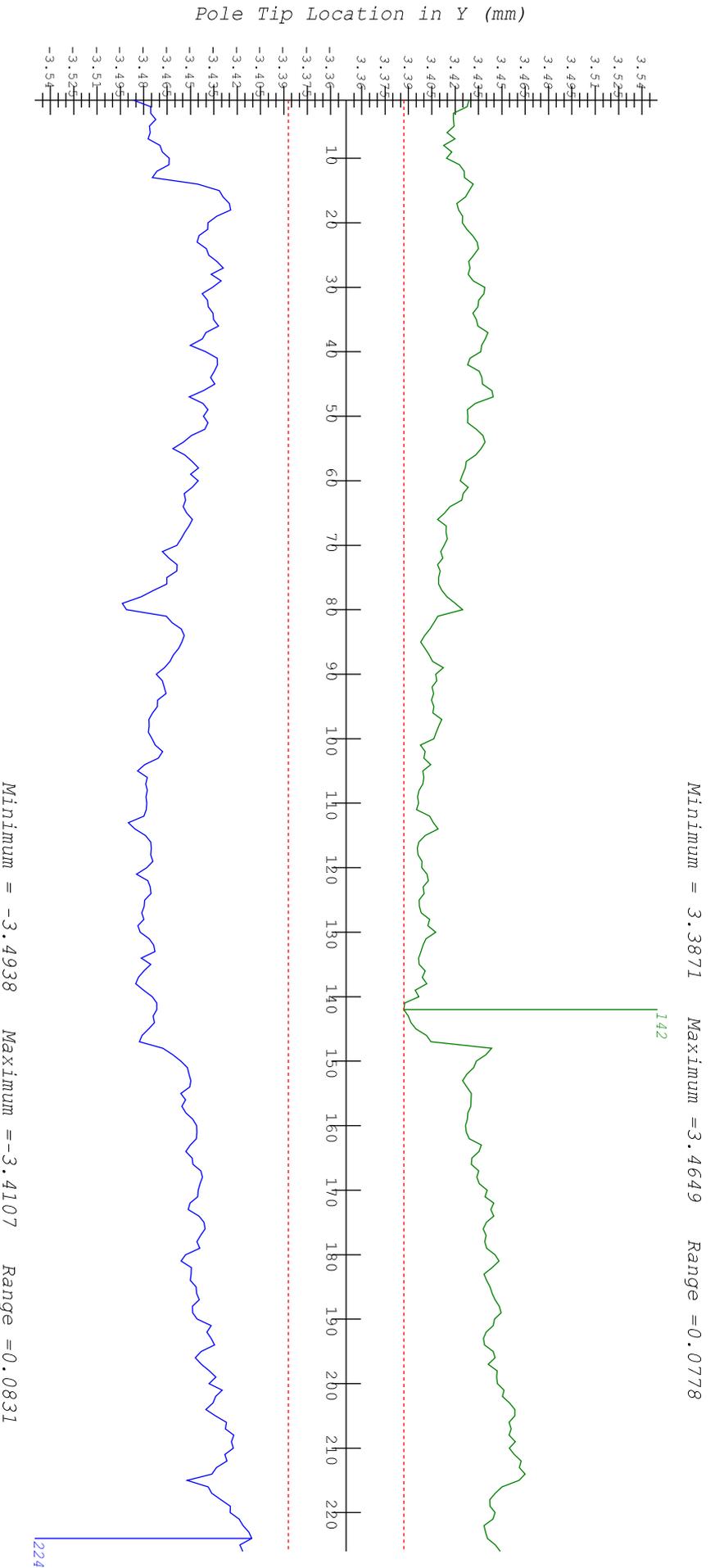
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L

SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Location
 TWIST TEST, WITH FLAT FEET

DATE: 09-OCT-2007
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Maximum Chamber Gap = 6.7742



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
TWIST TEST, WITH FLAT FEET

DATE: 09-OCT-2007
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DATASET # 0001
PROGRAM VERSION 2.3



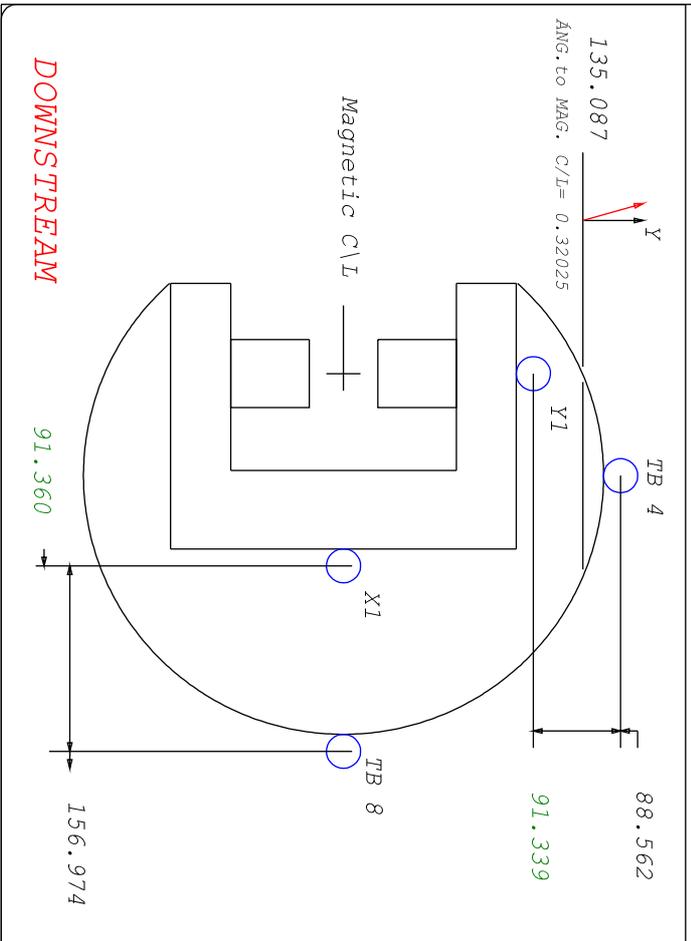
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0131	179.8250	-1558.172
2	0.2102	179.7767	-584.5946
3	0.1519	179.7883	591.3706
4	0.1191	179.9013	1562.1764
5	248.3145	0.1418	-1558.190
6	248.4668	0.0595	-584.5460
7	248.3342	0.1922	591.4015
8	248.3341	0.2207	1562.2916

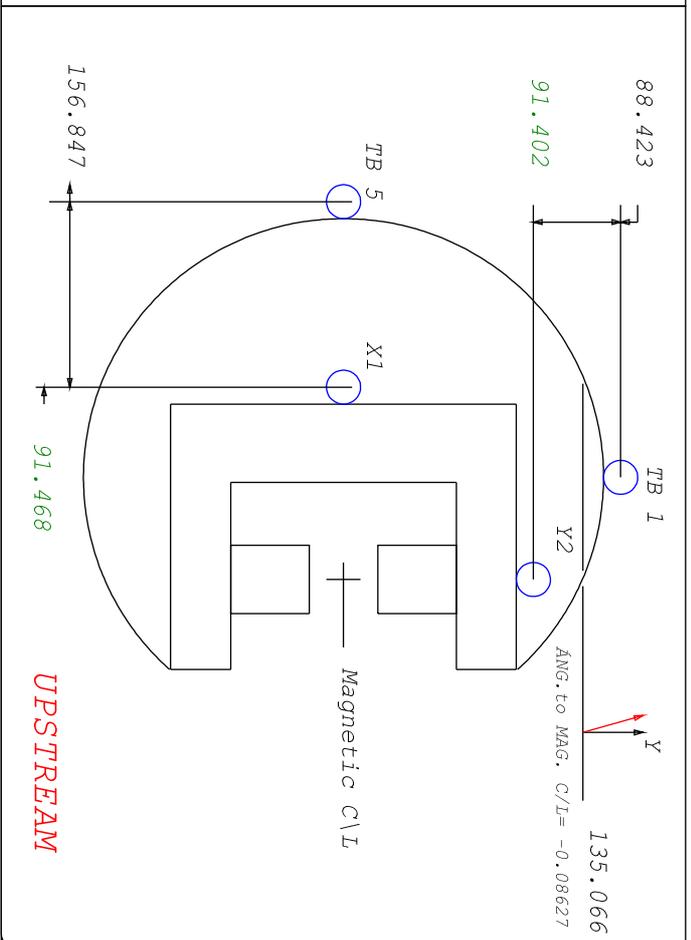
	C/L Offset	Length
Top Magnetic Structure	-0.005	3380.785
Bottom Magnetic Structure	0.005	3380.863
Strongback	0.430	3399.876

Dimensions in mm

Angles in mrad



DOWNSTREAM



UPSTREAM

SLAC
LCLS-MMF
LEITZ CMM

Undulator Dimensional Fiducialization
TWIST TEST, WITH FLAT FEET

DATE: 09-OCT-2007
UNDULATOR # 24
DATASET # 0001
PROGRAM VERSION 2.3