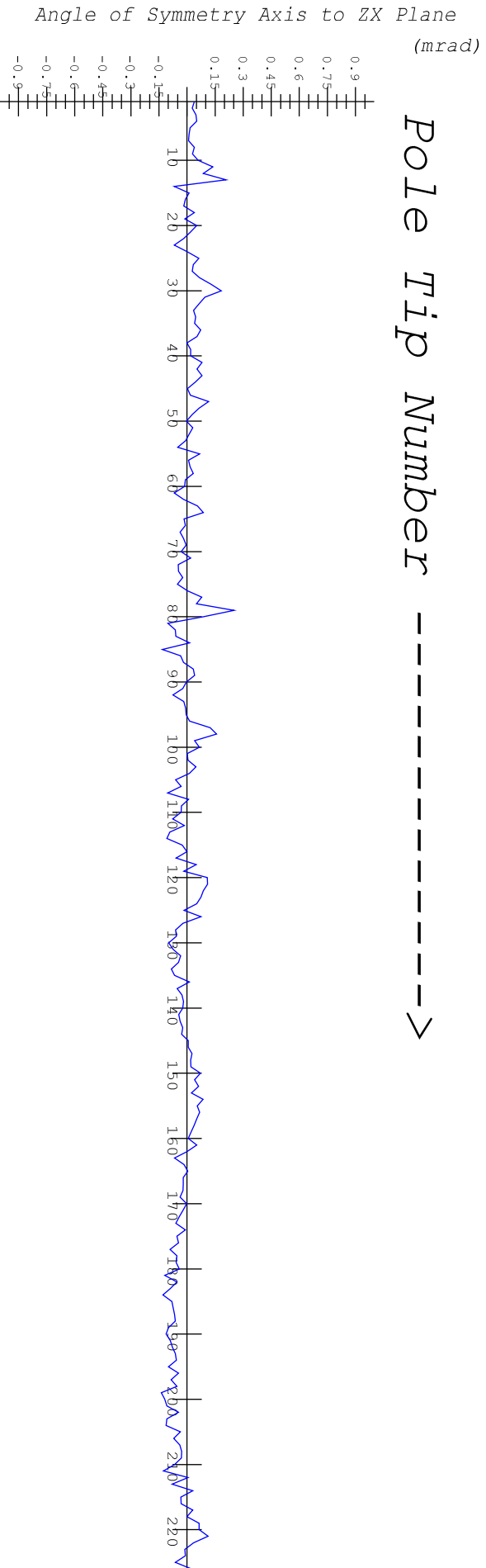


Pole Tip Number ----->



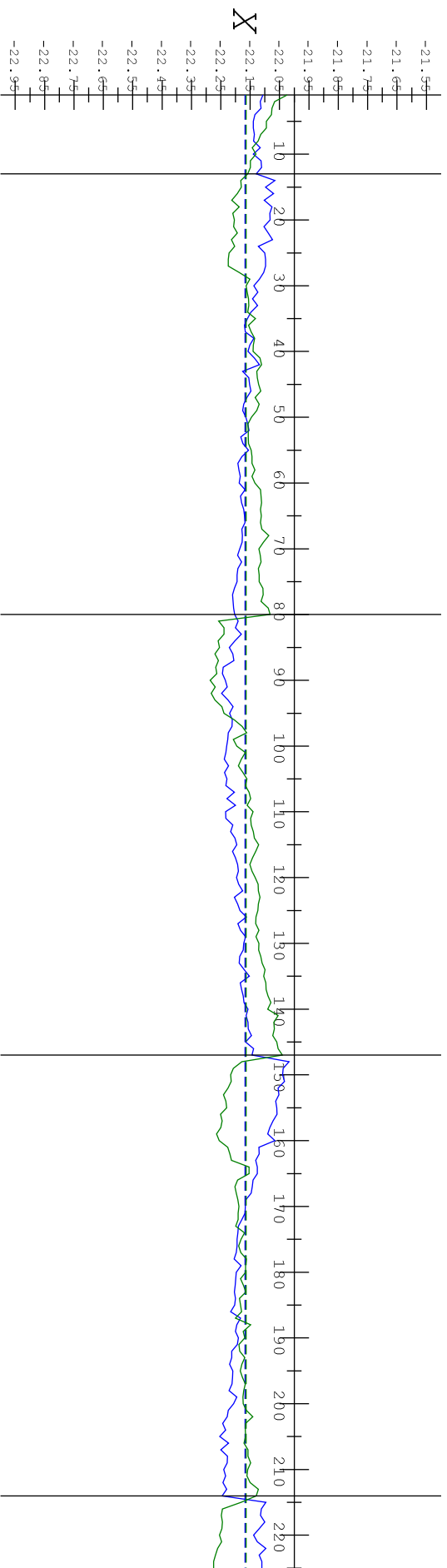
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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 LEITZ CMM

Undulator Pole Tip Angles
 TWIST TEST, WITH KINIMATIC FEET

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 PROGRAM VERSION 2.3

Pole Tip Number ----->



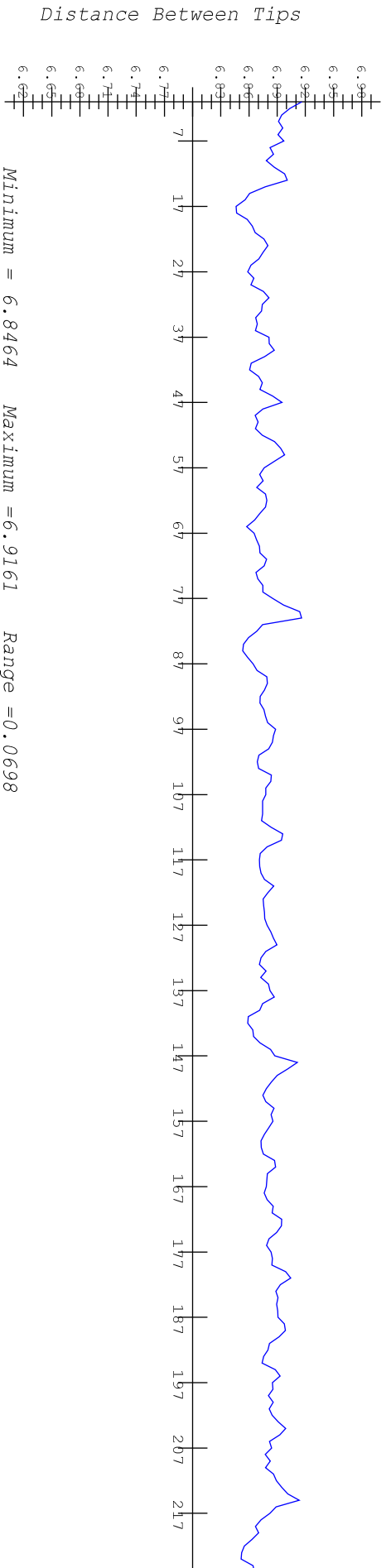
X values in mm

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 = -22.164
 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 = -22.168

SLAC
 LCLS-MMF
 LEITZ CMM

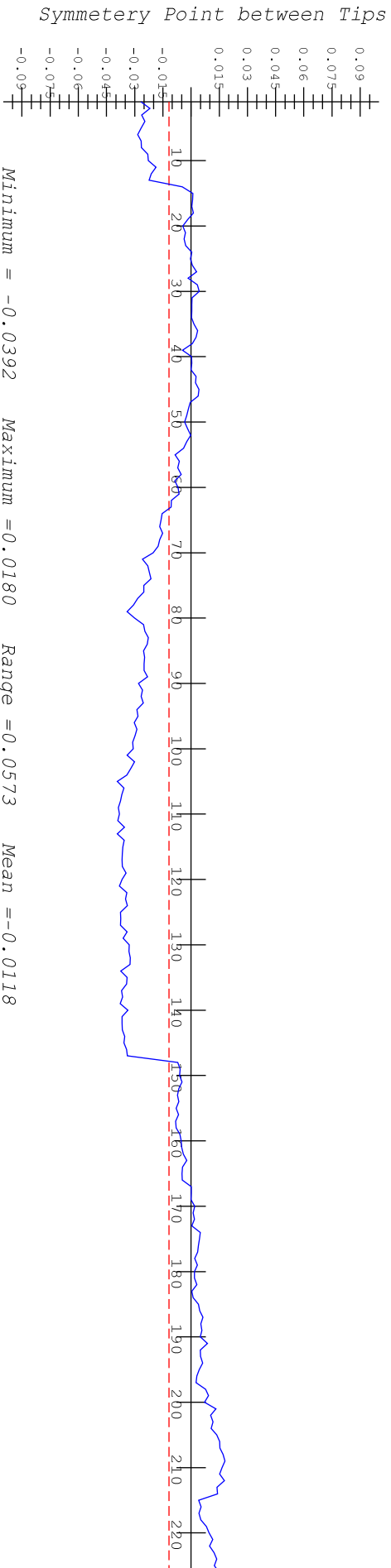
Undulator Pole Tip Location
 TWIST TEST, WITH KINIMATIC FEET

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



in mm

Pole Tip Number ----->



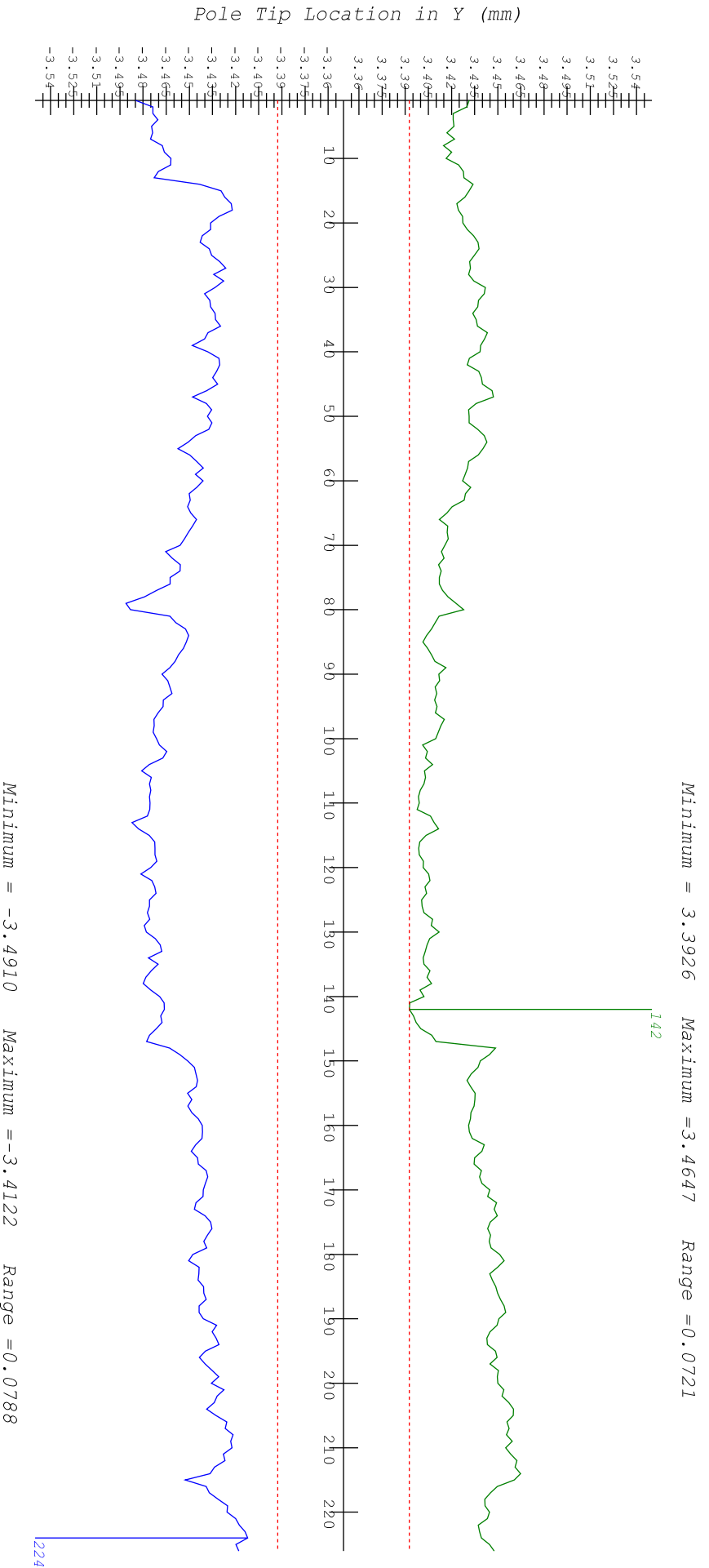
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C/L

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Undulator Pole Tip Location
 TWIST TEST, WITH KINIMATIC FEET

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Maximum Chamber Gap = 6.7853



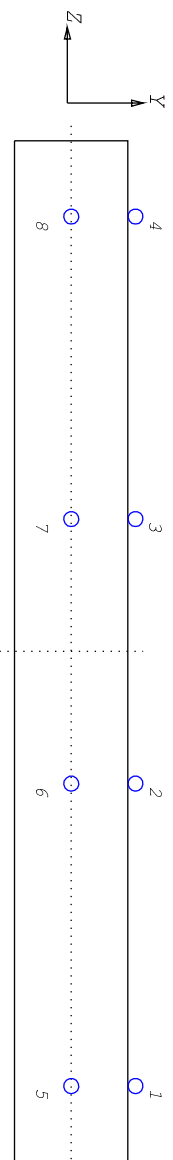
Pole Tip Number ----->

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
TWIST TEST, WITH KINIMATIC FEET

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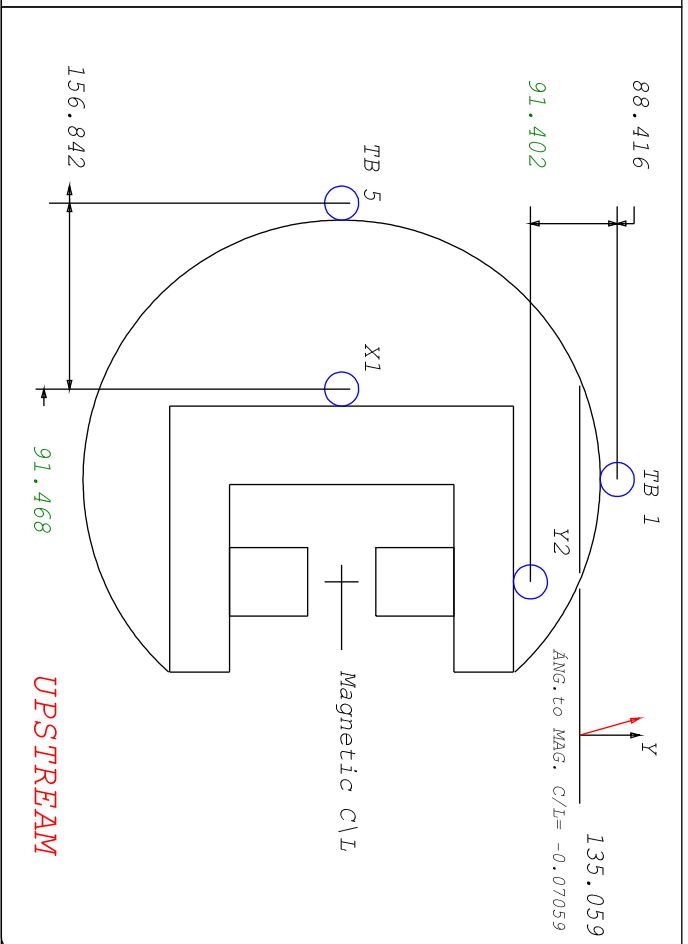
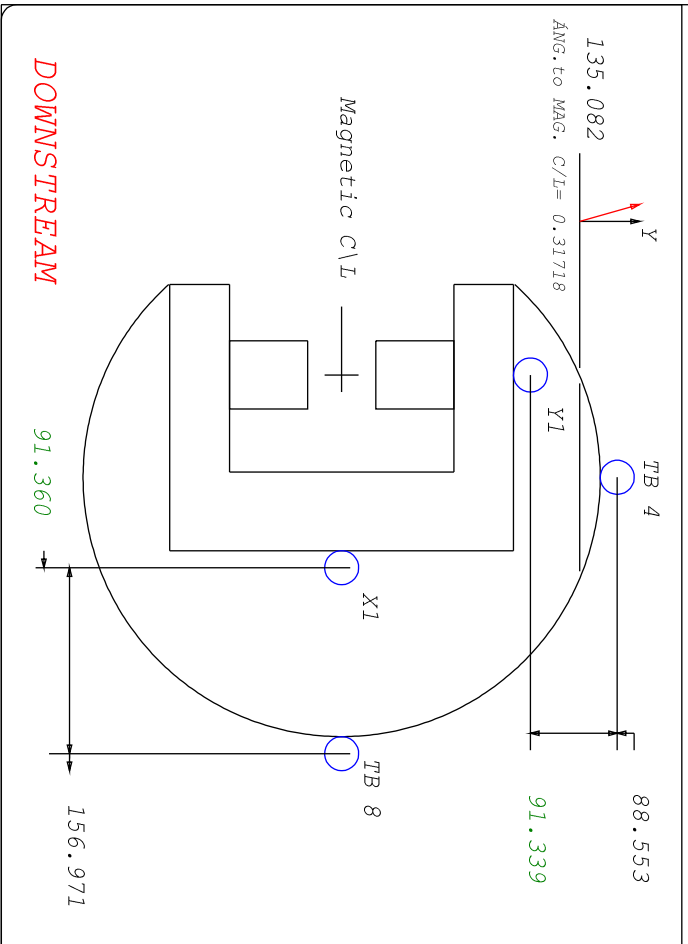
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0147	179.8184	-1558.175
2	0.2063	179.7712	-584.5963
3	0.1456	179.7815	591.3726
4	0.1166	179.8920	1562.1810
5	248.3104	0.1312	-1558.193
6	248.4595	0.0521	-584.5475
7	248.3269	0.1875	591.4032
8	248.3312	0.2155	1562.2944

	C/L Offset	Length
Top Magnetic Structure	-0.005	3380.794
Bottom Magnetic Structure	0.005	3380.872
Strongback	0.430	3399.885

Dimensions in mm

Angles in mrad



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LCLS-MMF
LEITZ CMM

Undulator Dimensional Fiducialization
TWIST TEST, WITH KINEMATIC FEET

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