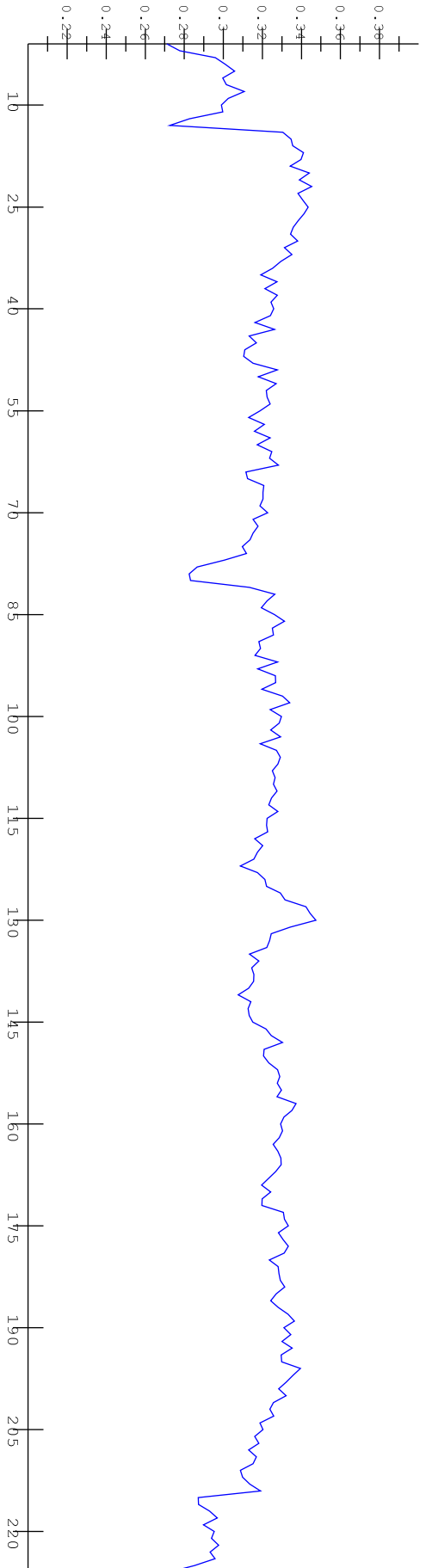
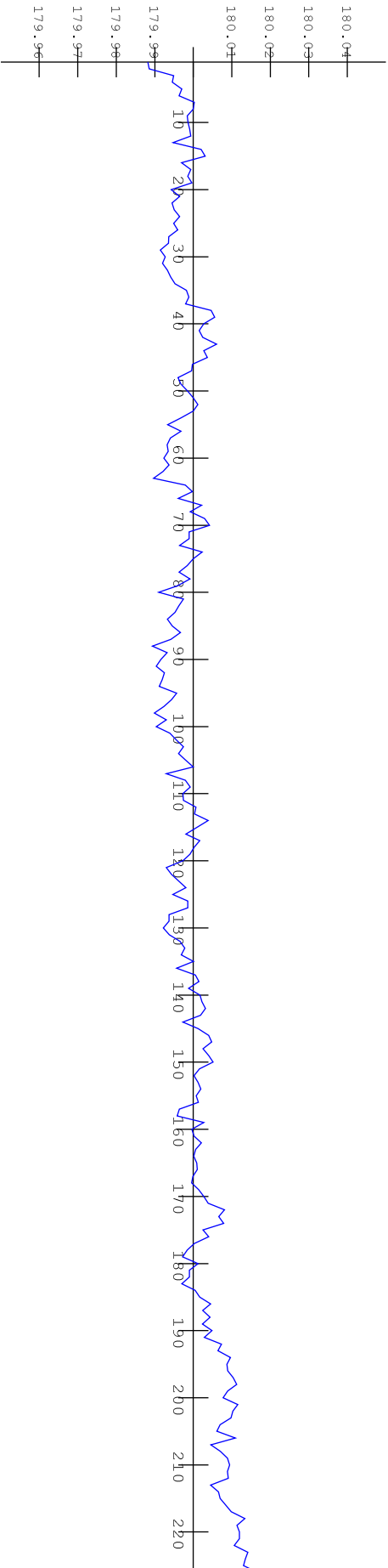


Included Angle Between Tips



Pole Tip Number ----->

Angle of Symmetry Axis to ZX Plane



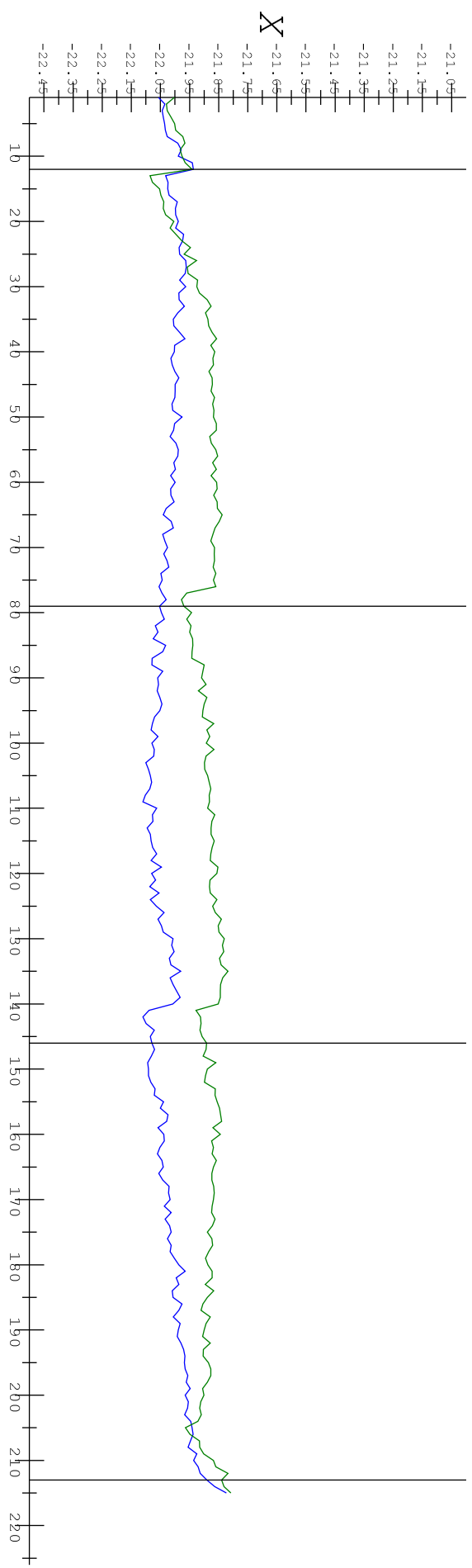
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

SLAC
LCLS-MMF
LEITZ CMM

Undulator Pole Tip Angles
Post Magnetic Alignment

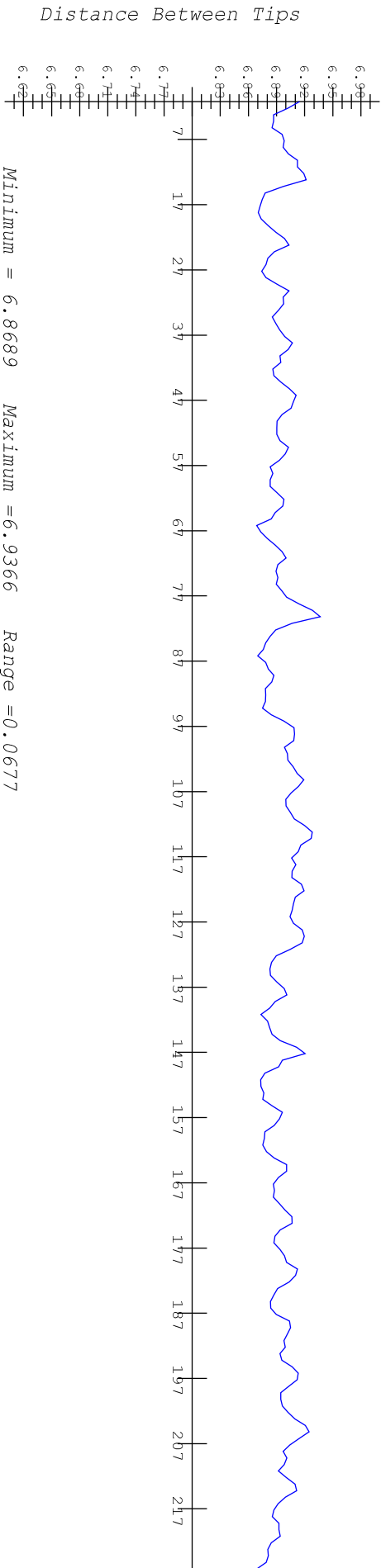
DATE: 05-FEB-2007
UNDULATOR # 17

Pole Tip Number ----->

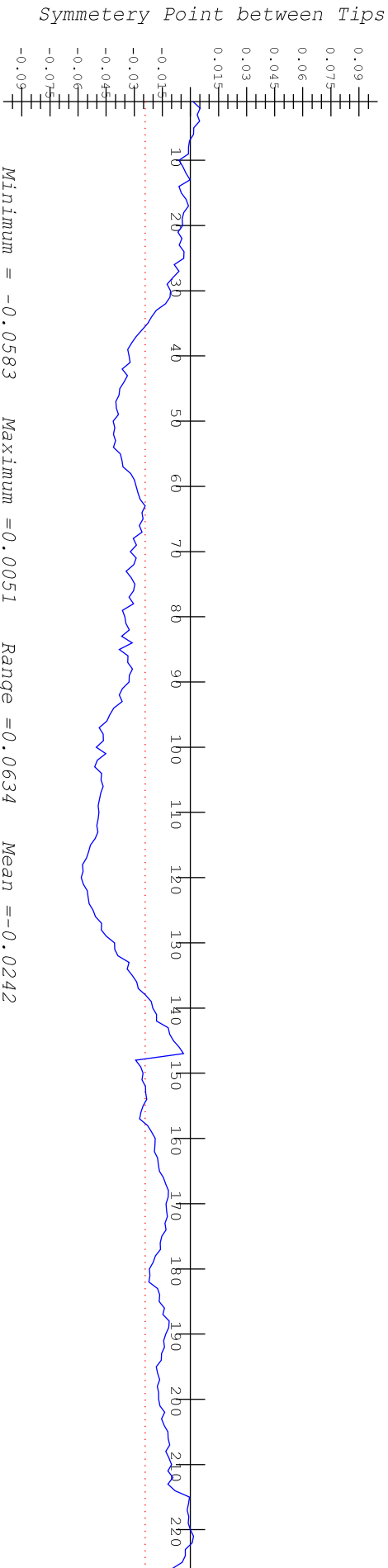


Green = Point on Front face of Upper Pole Tip 10mm above Magnetic C/L
 Blue = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Location Post Magnetic Alignment</p>	<p>DATE: 05-FEB-2007 UNDUATOR # 17</p>
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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

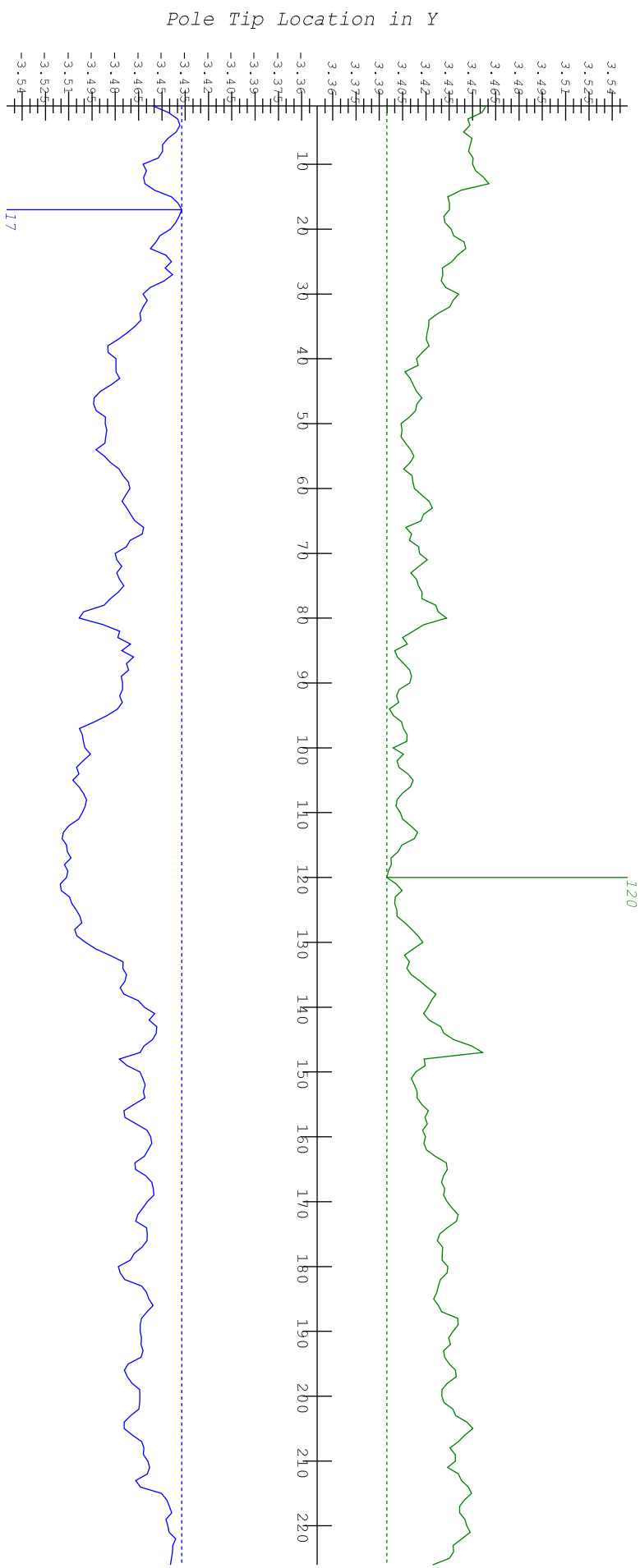
SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 05-FEB-2007
 UNDUULATOR # 17

MINIMUM GAP = 6.8320

Minimum = 3.3948 Maximum = 3.4606 Range = 0.0657



Minimum = -3.5154 Maximum = -3.4372 Range = 0.0782

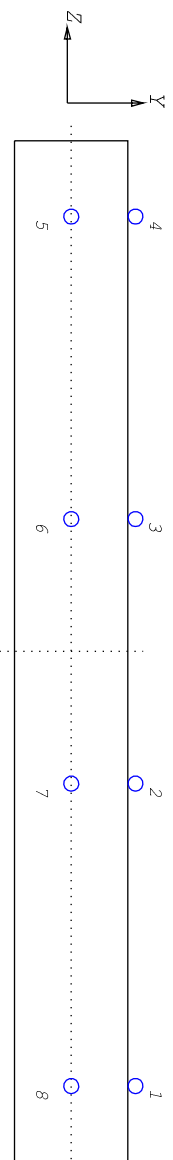
Pole Tip Number ----->

Green = The position of the Upper Pole Tips at Magnetic C\L
Blue = The position of the Lower Pole Tips at Magnetic C\L
Min. Gap = The minimum gap between pole tips at Magnetic C\L

SLAC
LCLS-MMF
LEITZ CMM

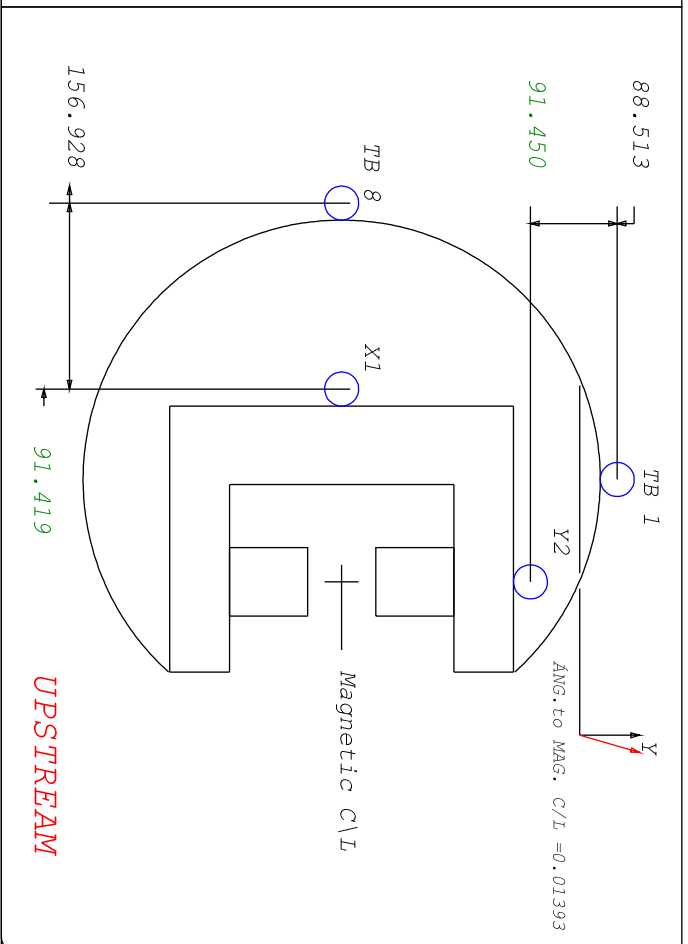
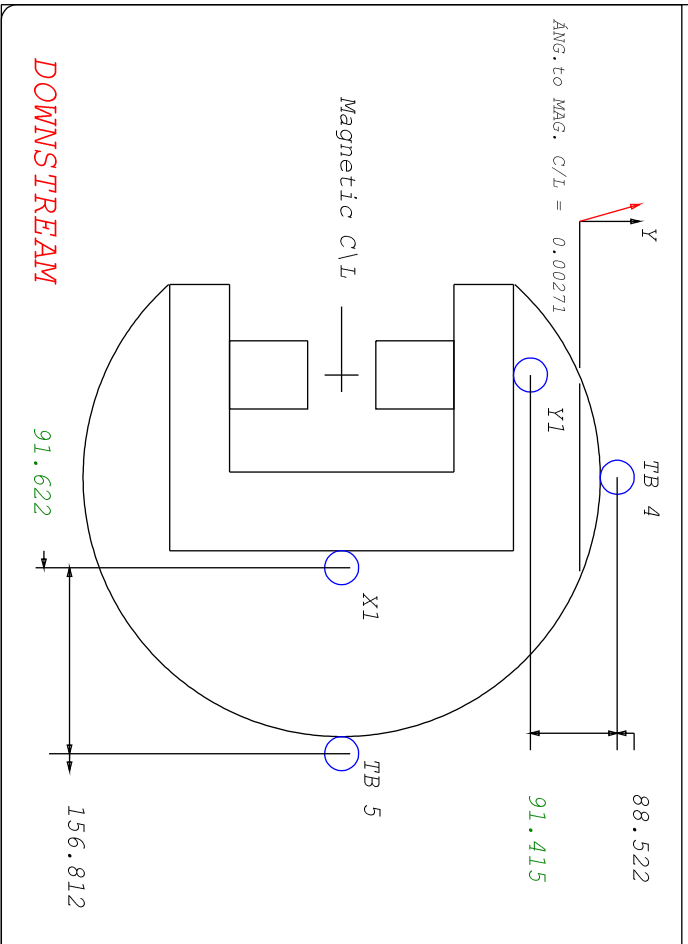
Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 05-FEB-2007
UNDUULATOR # 17



TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0563	179.9632	-1558.654
2	-0.0092	179.7671	-584.9990
3	0.0543	179.7879	590.9414
4	0.0539	179.9371	1561.6894
5	248.4337	-0.0483	1561.8226
6	248.2401	-0.0164	591.1748
7	248.2965	0.0237	-584.8719
8	248.3472	0.0192	-1558.569



SLAC
LCLS-MMF
LEITZ CMM

Undulator Fiducialization
Post Magnetic Alignment

DATE: 05-FEB-2007
UNDULATOR # 17