

Pole Tip Number ----->

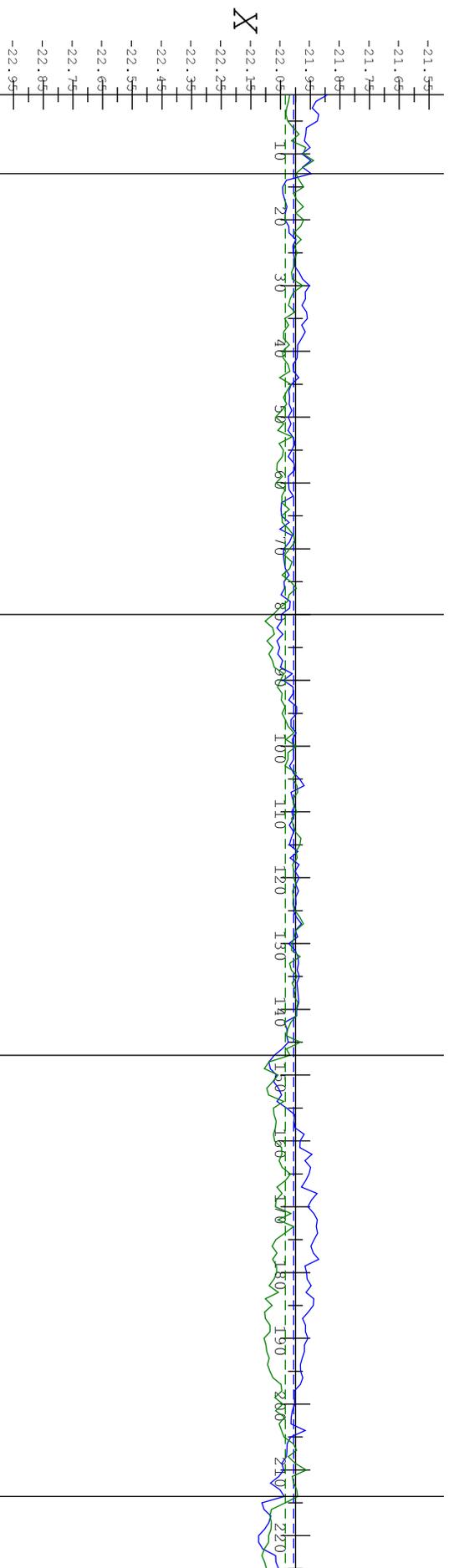
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Angles
 FIDUCIALIZATION WITH FLAT FEET

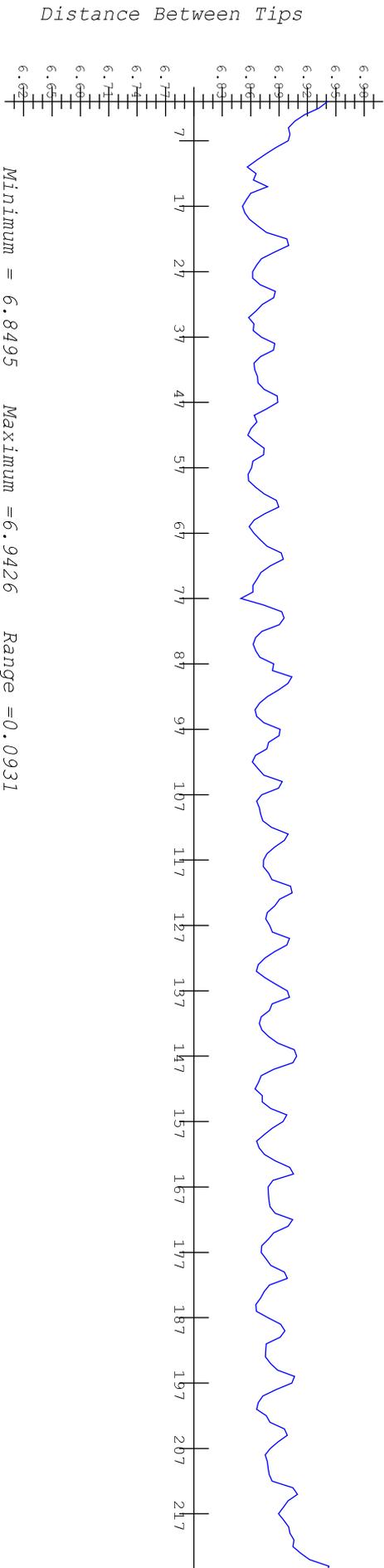
DATE: 30-OCT-2007
 UNDULATOR # 37
 DATASET # 0001
 PROGRAM VERSION 2.3

Pole Tip Number ----->

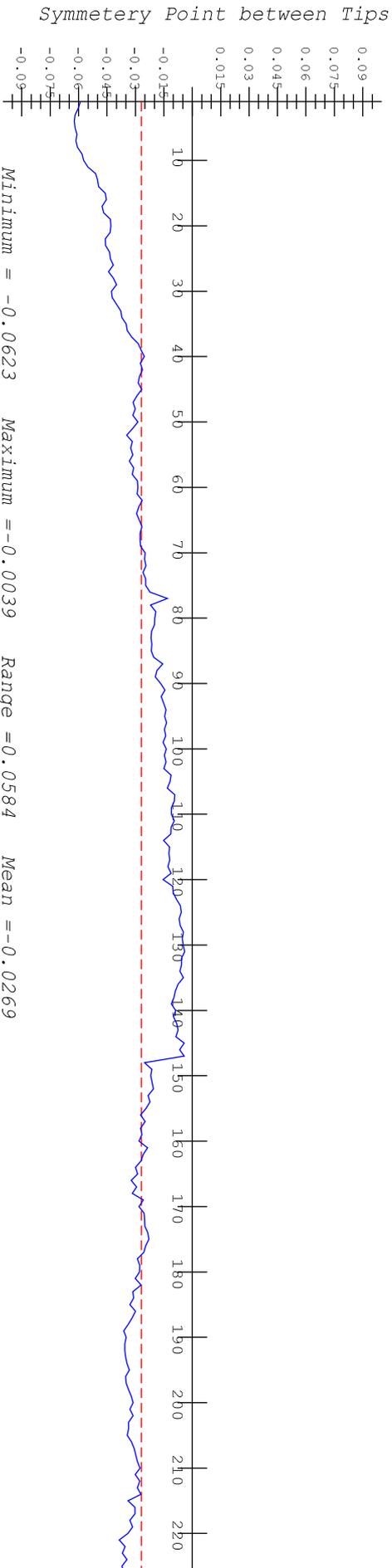


X values in mm
 Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L
 Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.034
 Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L
 Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.006

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Location FIDUCIALIZATION WITH FLAT FEET</p>	<p>DATE: 30-OCT-2007 UNDULATOR # 37 DATASET # 0001 PROGRAM VERSION 2.3</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

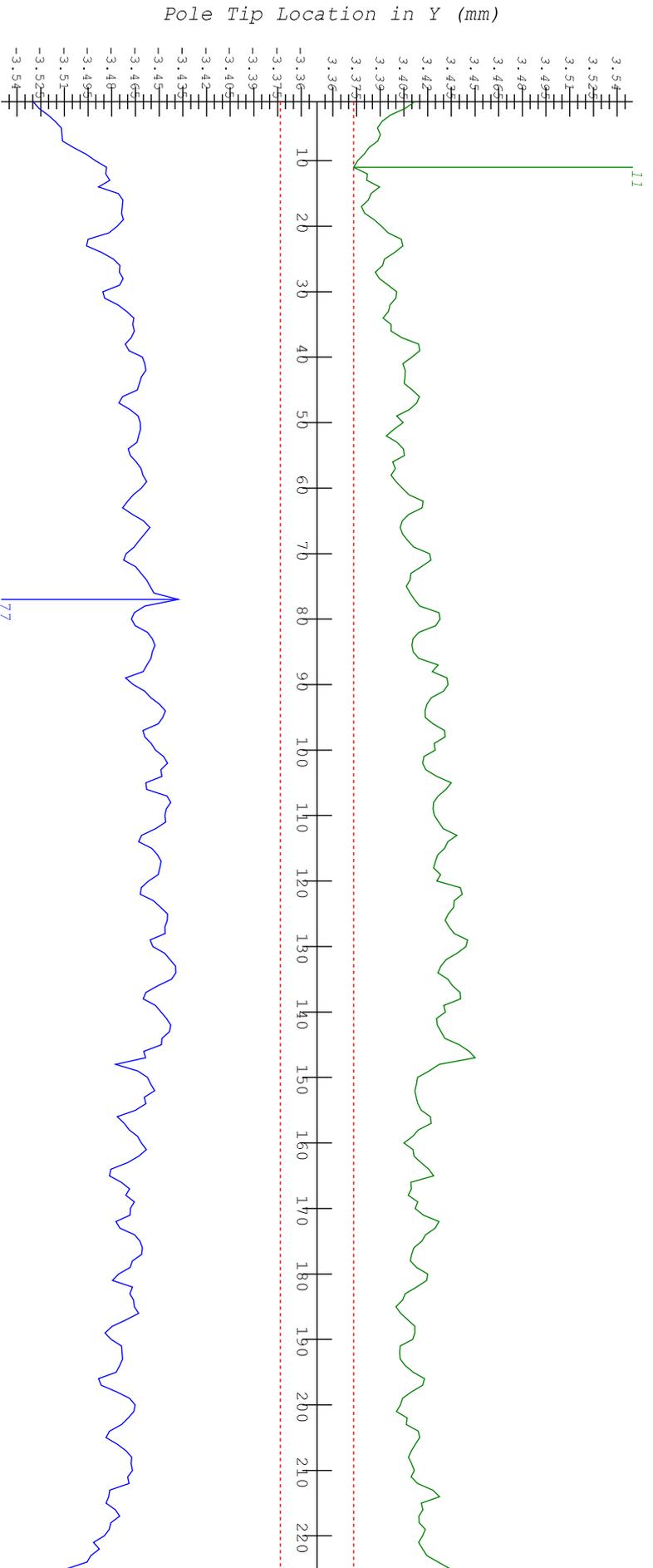
SLAC
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Undulator Pole Tip Location
 FIDUCIALIZATION WITH FLAT FEET

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Maximum Chamber Gap = 6.7464

Minimum = 3.3732 Maximum = 3.4500 Range = 0.0768



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
FIDUCIALIZATION WITH FLAT FEET

DATE: 30-OCT-2007
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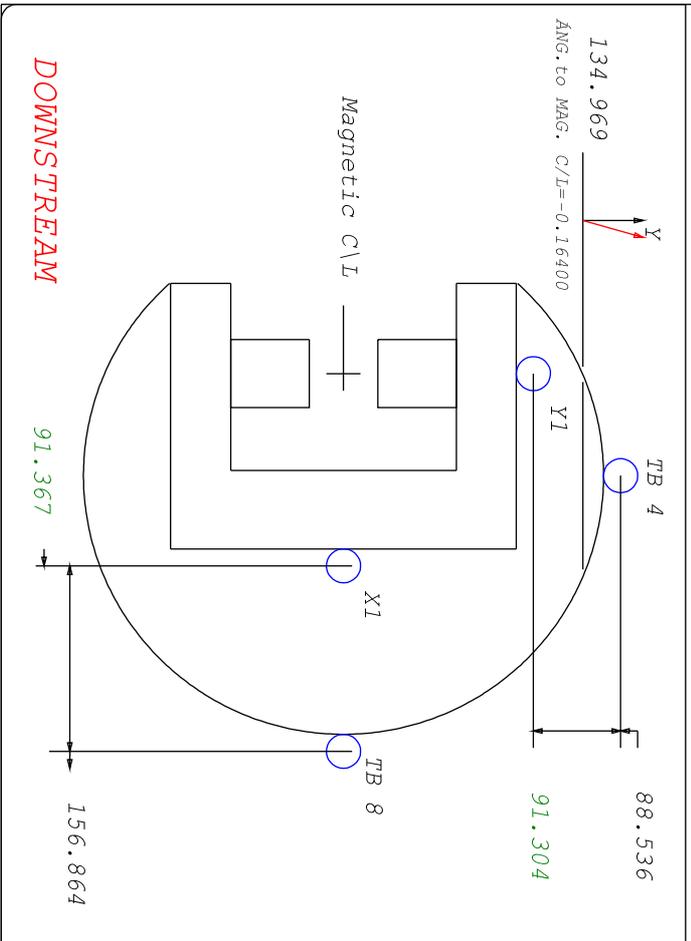
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0607	179.7590	-1558.320
2	0.2540	179.8734	-584.6980
3	-0.0941	179.7419	591.3801
4	0.1374	179.8404	1562.2531
5	248.3252	-0.0371	-1558.214
6	248.2497	0.0232	-584.6538
7	248.2658	-0.0754	591.4323
8	248.2312	-0.1031	1562.1307

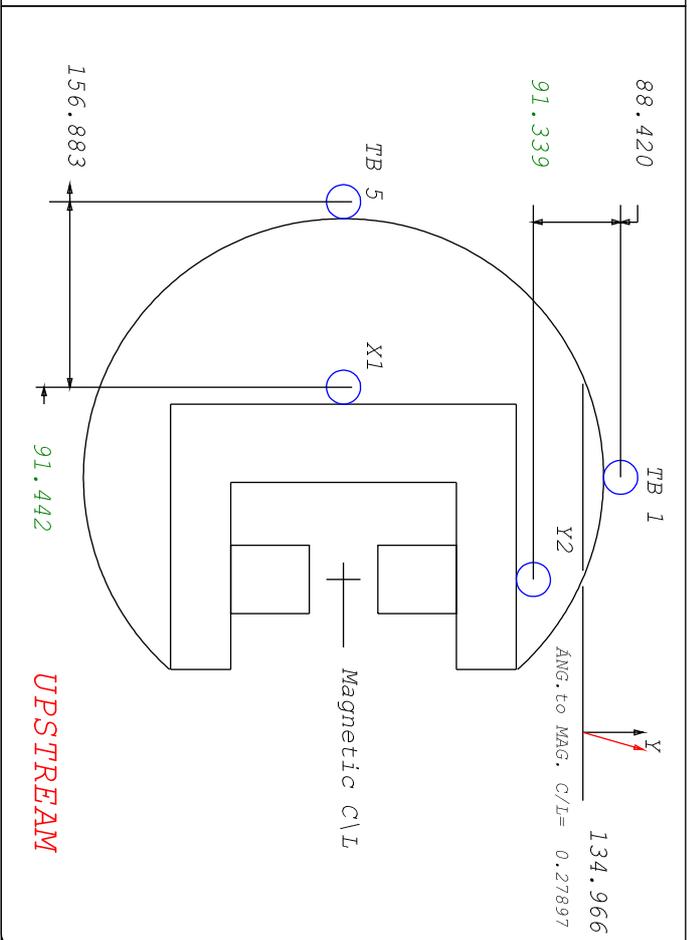
	C/L Offset	Length
Top Magnetic Structure	0.022	3381.074
Bottom Magnetic Structure	-0.022	3380.950
Strongback	0.423	3399.936

Dimensions in mm

Angles in mrad



DOWNSTREAM



UPSTREAM

SLAC
LCLS-MMF
LEITZ CMM

Undulator Dimensional Fiducialization
FIDUCIALIZATION WITH FLAT FEET

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