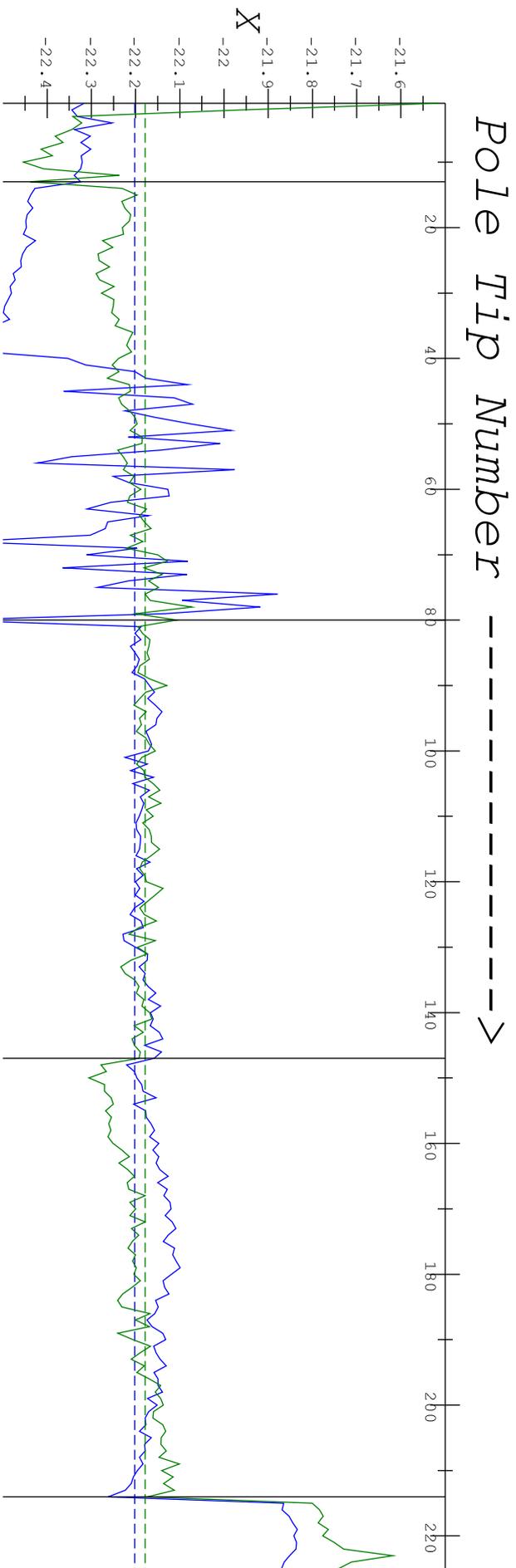


Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles  
 Inprocess Shim Check  
 6.8mm Gap Undulator

DATE: 23-AUG-2011  
 UNDUULATOR # 11  
 DATASET # 0003  
 PROGRAM VERSION 3.0



X values in mm

Green Solid = Point on front face of Upper Pole Tip 11.5mm above Magnetic C/L

Green Dash = Mean value of all Upper Pole Tips 11.5mm above Magnetic C/L Mean value Upper Pole Tips = -22.178

Blue Solid = Point on front face of Lower Pole Tip 11.5mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 11.5mm below Magnetic C/L Mean value Lower Pole Tips = -22.202



## Undulator Pole Tip Location

Inprocess Shim Check

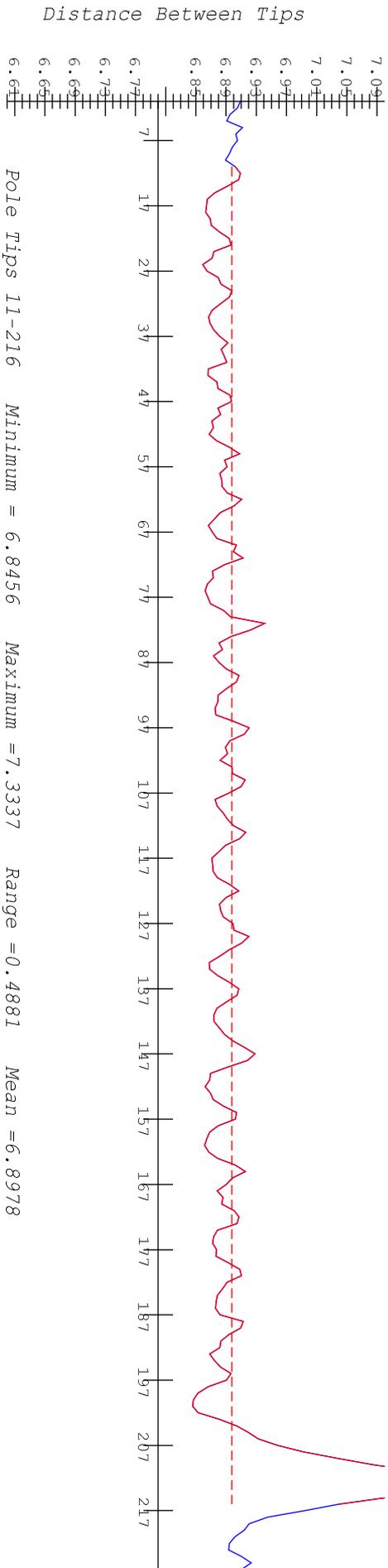
6.8mm Gap Undulator

DATE: 23-AUG-2011

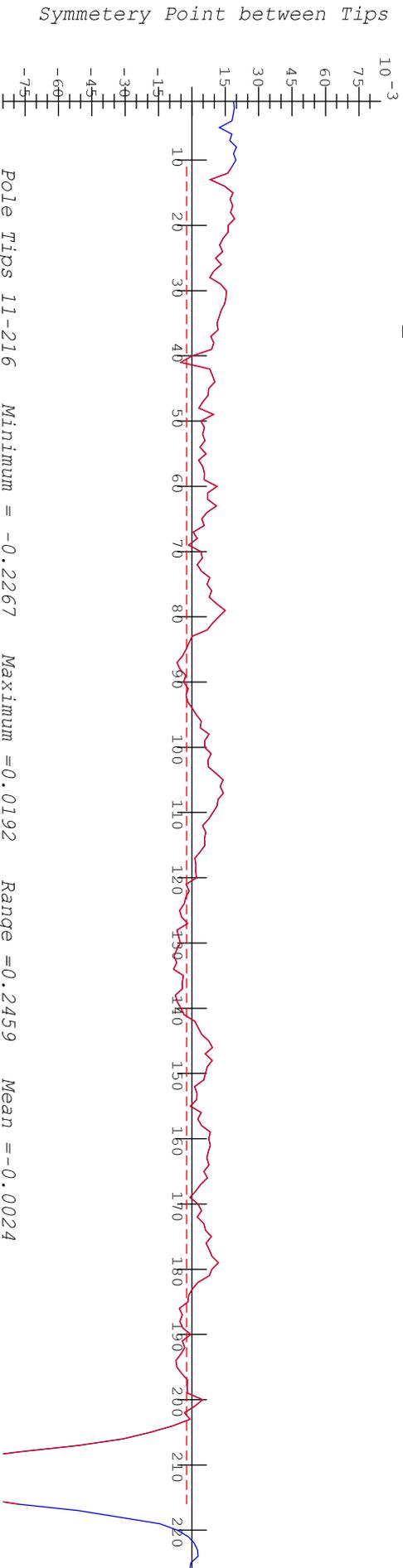
UNDULATOR # 11

DATASET # 0003

PROGRAM VERSION 3.0



in mm  
Pole Tip Number ----->

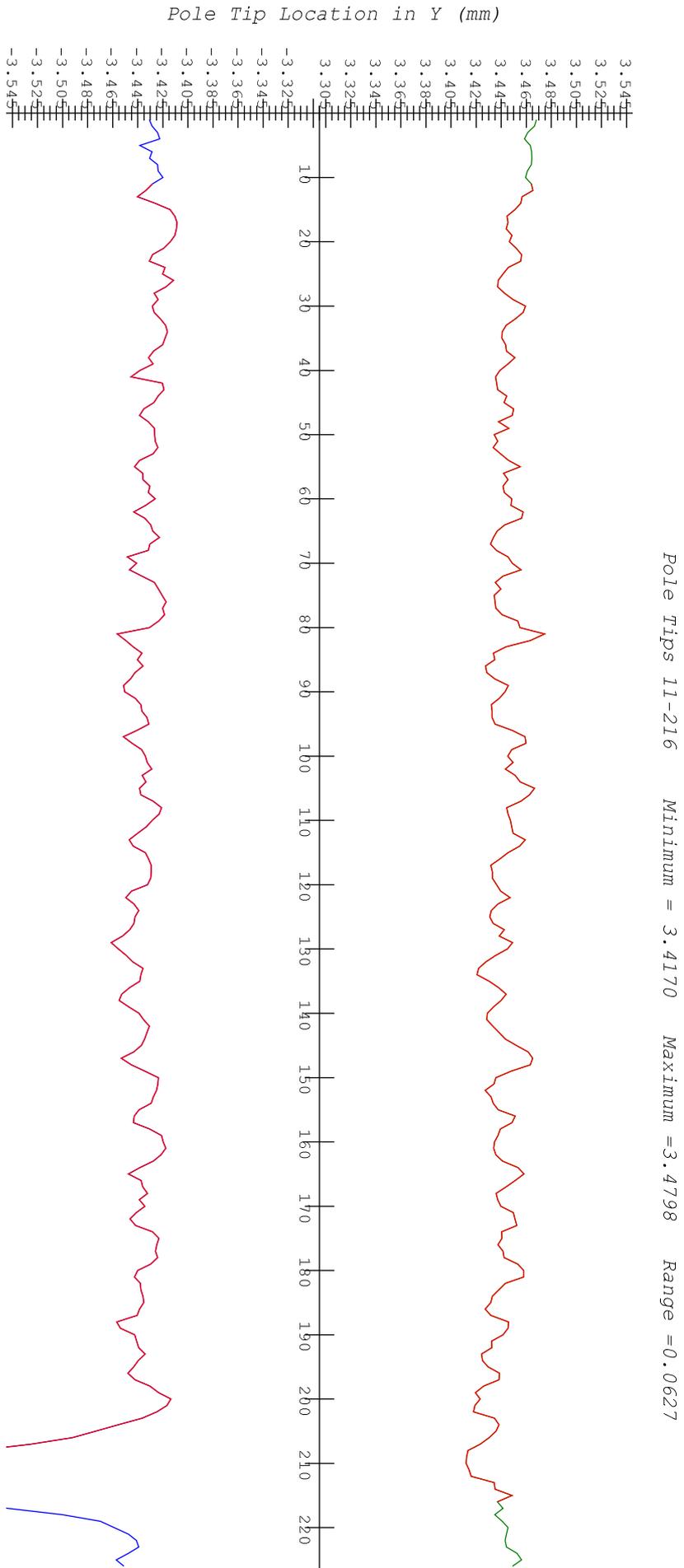


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L  
Broken Red line is Mean Value of Symmetry Points and Mean Value of Gap Distance  
Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect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



Undulator Pole Tip Location  
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6.8mm Gap Undulator

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Green + Red = The position of the Upper Pole Tips at Magnetic C/L (Pole Tips 11-216 in Red)  
 Blue + Red = The position of the Lower Pole Tips at Magnetic C/L (Pole Tips 11-216 in Red)

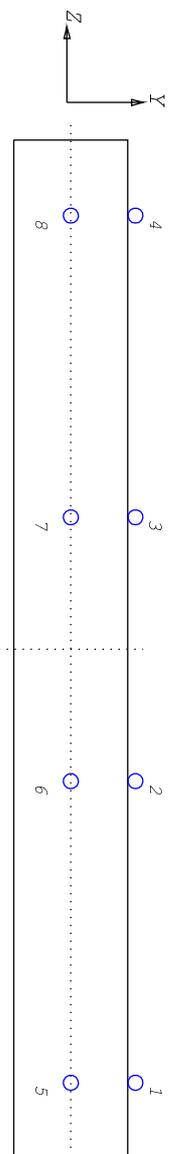
Pole Tip Number ----->



## Undulator Pole Tip Location

Inprocess Shim Check  
 6.8 mm Gap Undulator

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Top Magnetic Structure      0.062      3380.678  
 Bottom Magnetic Structure    -0.147      3380.708  
 Strongback                      0.000      3399.796

Dimensions in mm

Angles in mrad

TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1037	180.0073	-1558.675
2	0.0349	179.9083	-585.0414
3	0.0154	179.8408	590.9396
4	0.0751	179.9013	1561.7684
5	248.2374	0.1077	-1558.563
6	248.3092	0.2686	-584.9893
7	248.2347	0.0775	591.0207
8	248.3011	-0.0036	1561.7470



Undulator Dimensional Fiducialization  
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