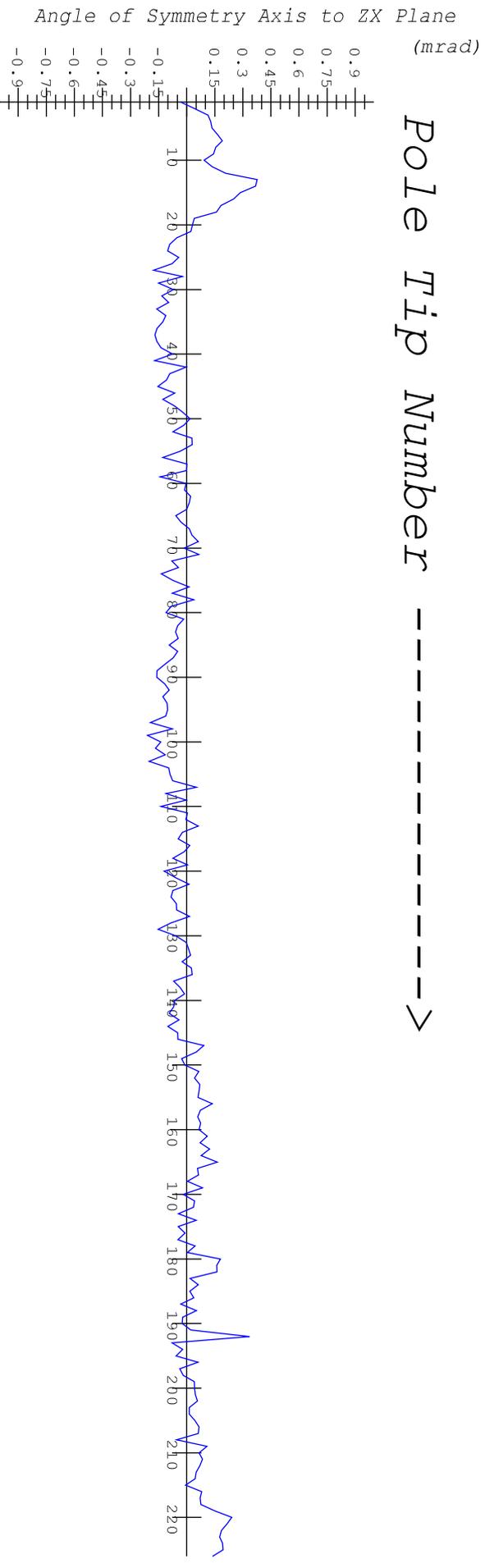


Pole Tip Number ----->

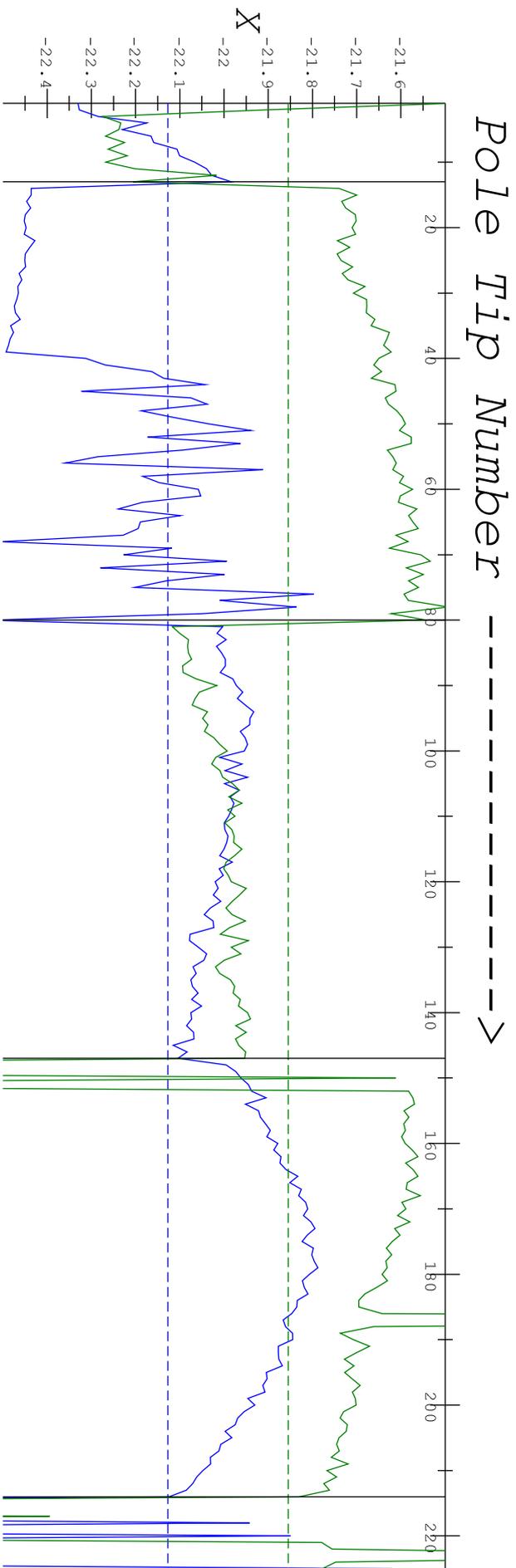


Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Inprocess Shim Check
 6.8mm Gap Undulator

DATE: 19-AUG-2011
 UNDUULATOR # 11
 DATASET # 0003
 PROGRAM VERSION 2.0



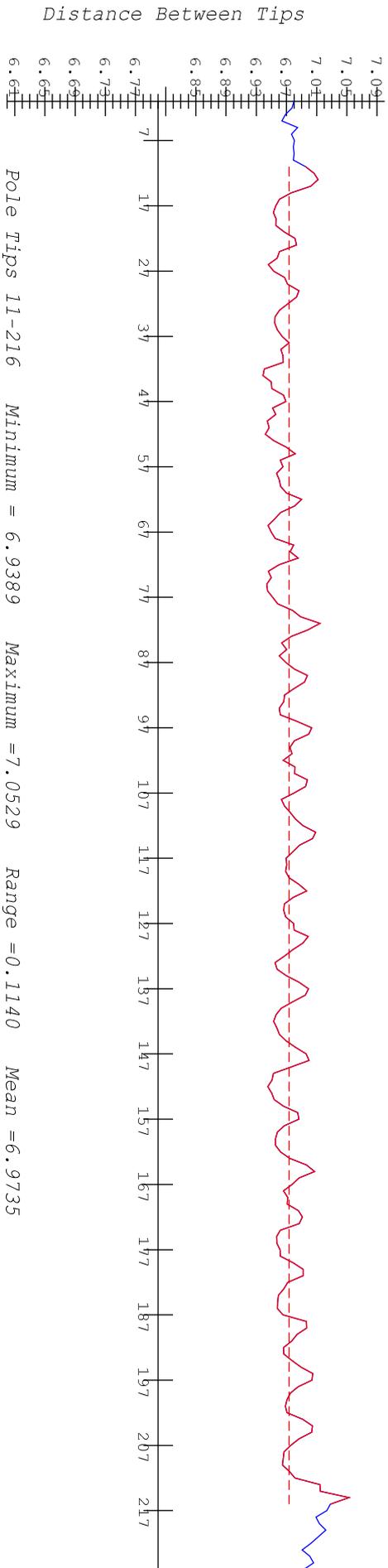
X values in mm

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 = -21.855

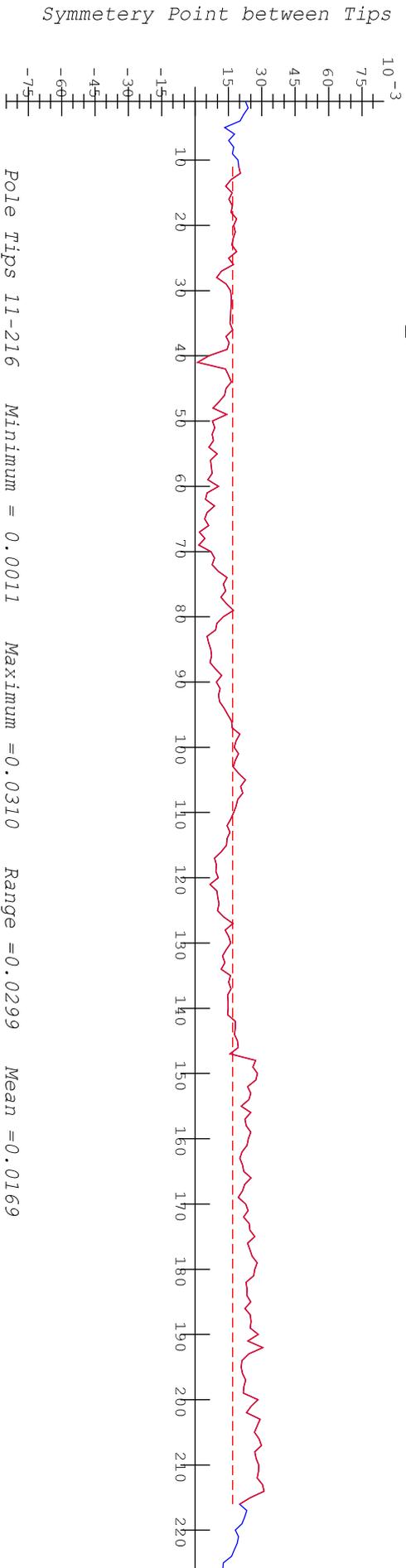
Blue Solid = Point on front face of Lower Pole Tip 11.5mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 11.5mm below Magnetic C/L Mean value Lower Pole Tips = -22.127



in mm

Pole Tip Number ----->

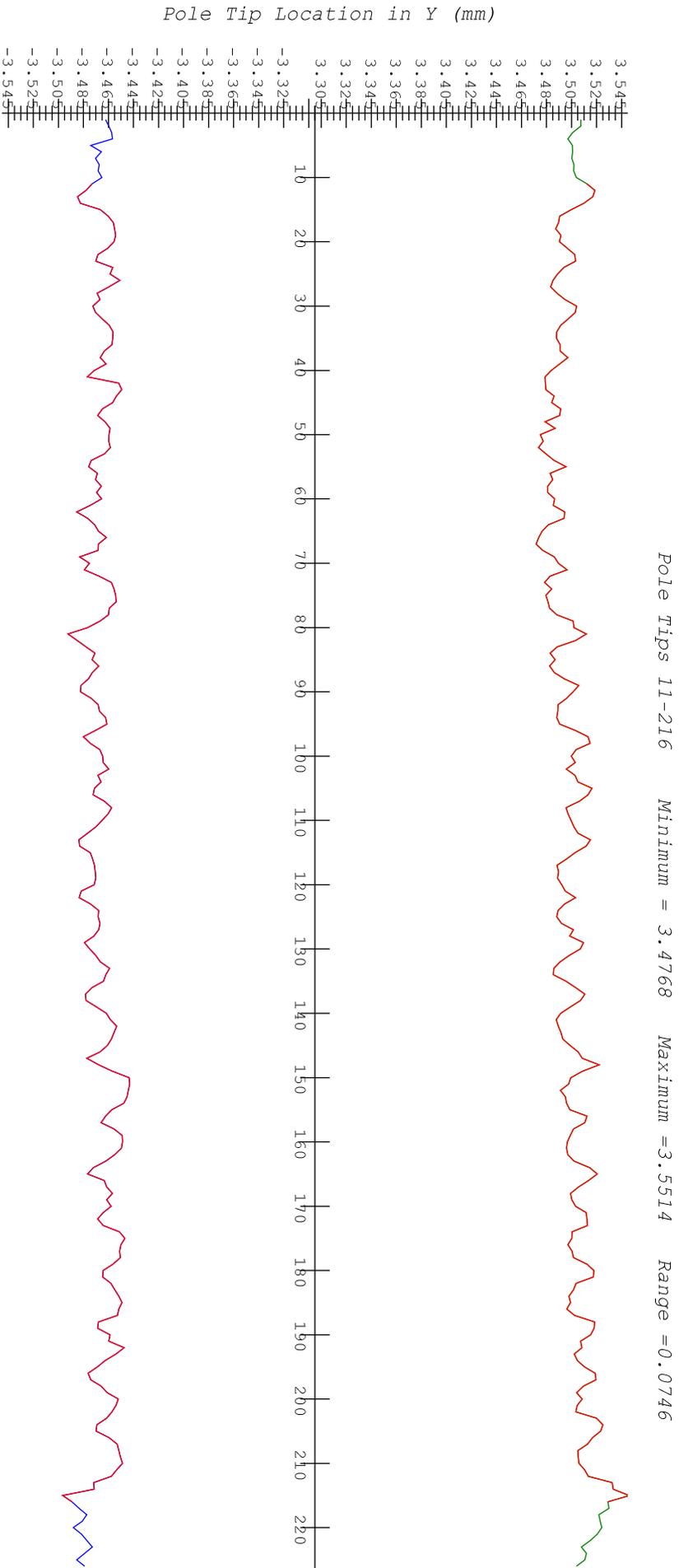


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
 Broken Red line is Mean Value of Symmetry Points and Mean Value of Gap Distance
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect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



Undulator Pole Tip Location
 Inprocess Shim Check
 6.8mm Gap Undulator

DATE: 19-AUG-2011
 UNDULATOR # 11
 DATASET # 0003
 PROGRAM VERSION 2.0



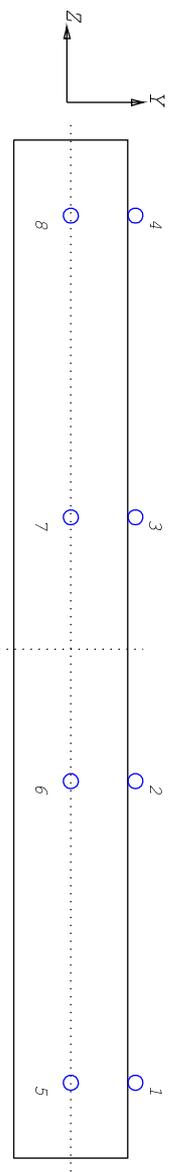
Pole Tip Number ----->

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)



Undulator Pole Tip Location
 Inprocess Shim Check
 6.8 mm Gap Undulator

DATE: 19-AUG-2011
 UNDUULATOR # 11
 DATASET # 0003
 PROGRAM VERSION 2.0



Top Magnetic Structure 0.175 3381.889
 Bottom Magnetic Structure -0.101 3381.759
 Strongback 0.000 3399.796

Dimensions in mm Angles in mrad

----- TOOLING BALL LOCATIONS -----

NUM.	X	Y	Z
1	0.0683	179.8577	-1558.832
2	-0.0872	179.8144	-585.1140
3	-0.0472	179.7578	590.8604
4	-0.1319	179.8158	1561.6984
5	248.3810	0.0360	-1558.569
6	248.2480	0.1541	-585.0417
7	248.1955	0.1088	590.9359
8	248.2591	-0.0023	1561.7957



Undulator Dimensional Fiducialization
 Inprocess Shim Check
 6.8MM Gap Undulator

DATE: 19-AUG-2011
 UNDUULATOR # 11
 DATASET # 0003
 PROGRAM VERSION 2.0