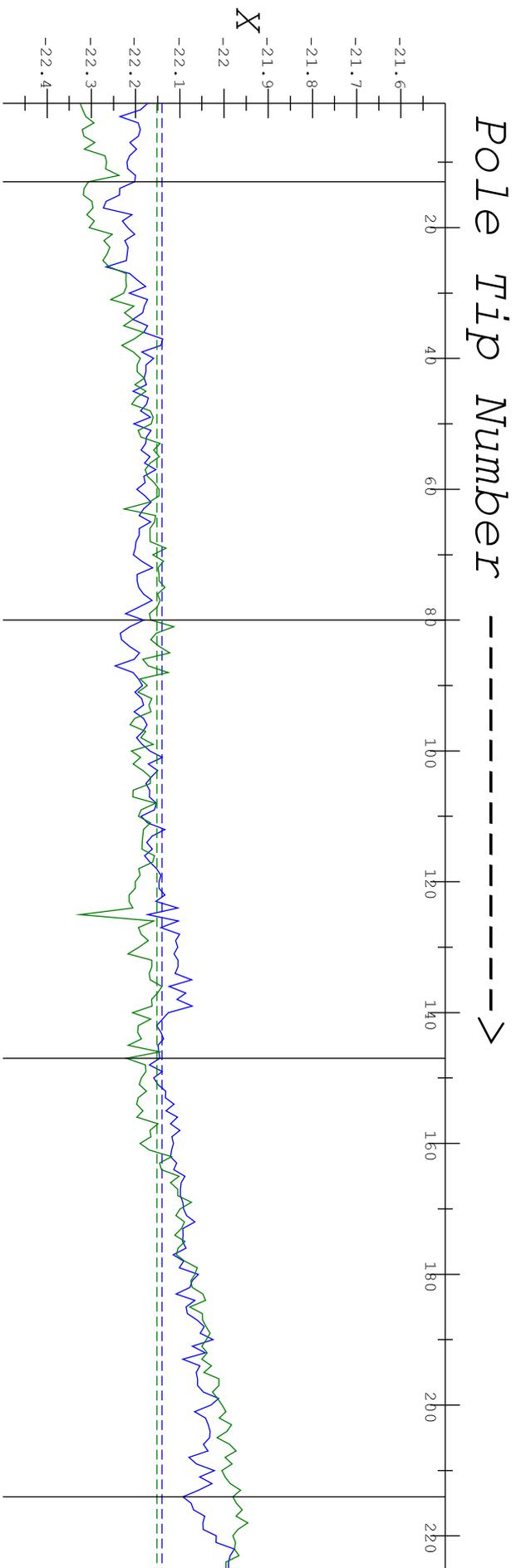


Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles  
 Inprocess Shim Check  
 Wide Gap Undulator

DATE: 03-JUN-2010  
 UNDUULATOR #01  
 DATASET #0001  
 PROGRAM VERSION 2.0



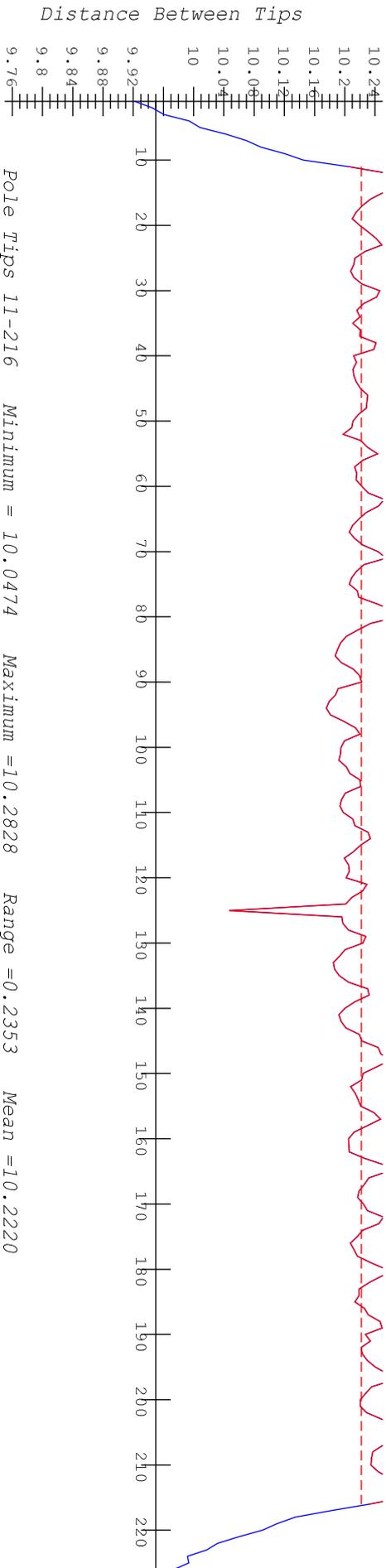
X values in mm

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

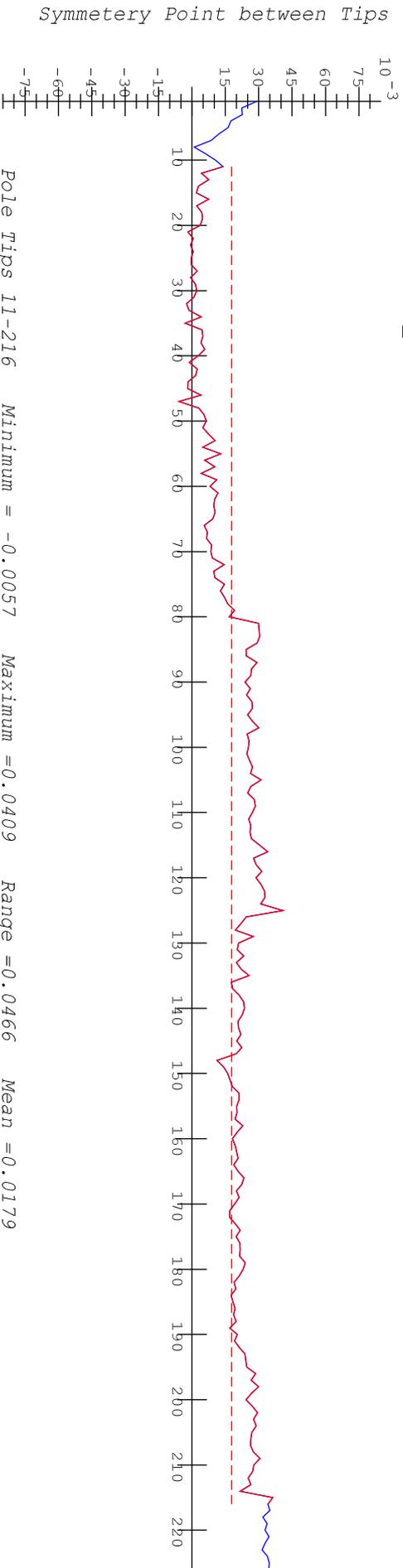
Green Dash = Mean value of all Upper Pole Tips 11.5mm above Magnetic C/L Mean value Upper Pole Tips = -22.152

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 = -22.141



in mm  
Pole Tip Number ----->

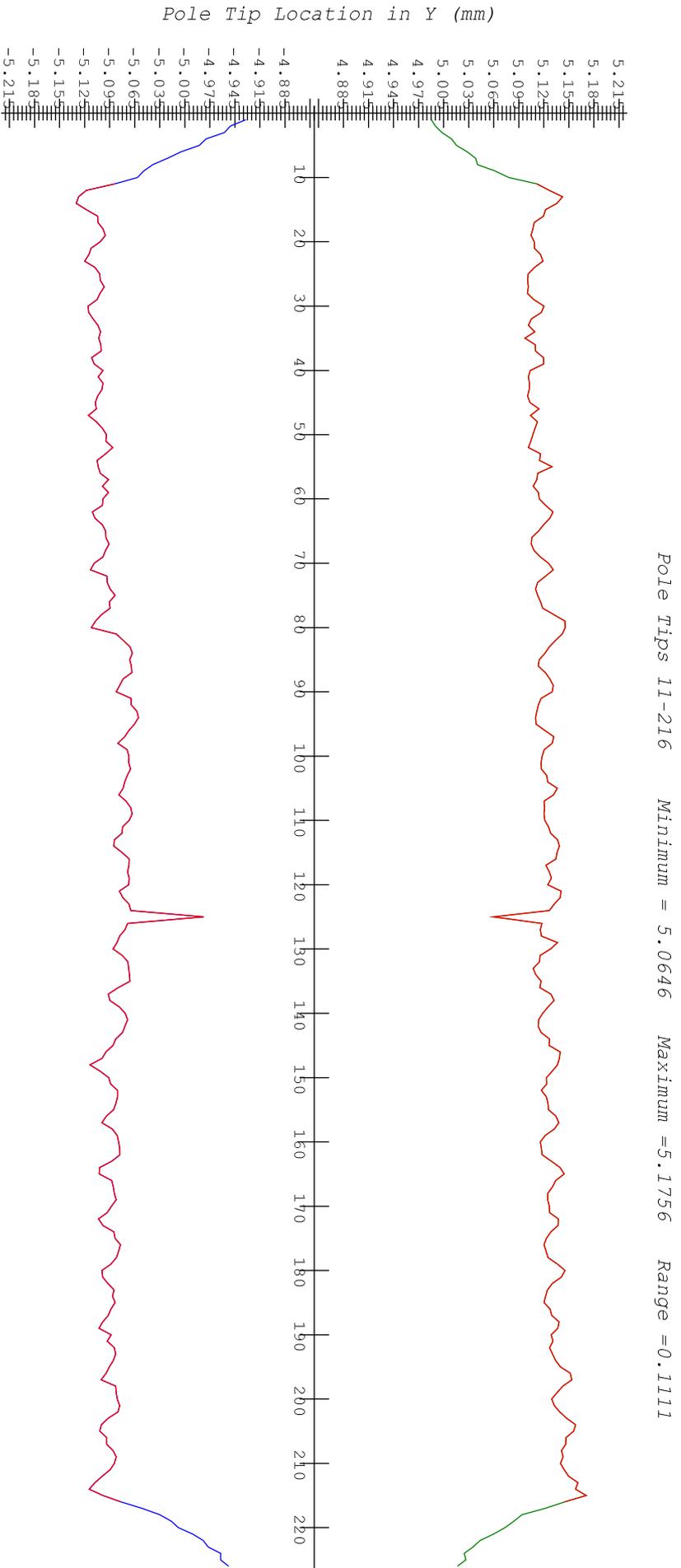


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L  
Broken Red line is Mean Value of Symmetry Points and Mean Value of Gap Distance  
Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect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



Undulator Pole Tip Location  
Inprocess Shim Check  
Wide Gap Undulator

DATE: 03-JUN-2010  
UNDULATOR #01  
DATASET #0001  
PROGRAM VERSION 2.0

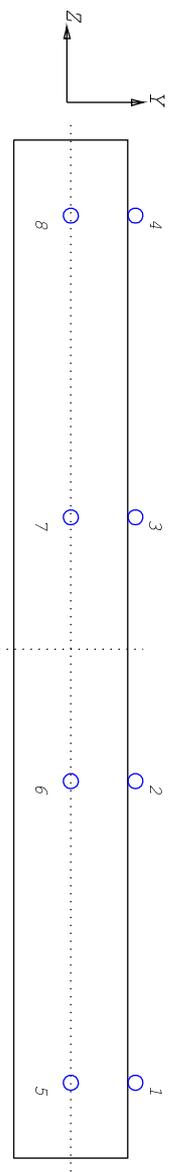


Green + Red = The position of the Upper Pole Tips at Magnetic C/L (Pole Tips 11-216 in Red)  
 Blue + Red = The position of the Lower Pole Tips at Magnetic C/L (Pole Tips 11-216 in Red)



Undulator Pole Tip Location  
 Inprocess Shim Check  
 Wide Gap Undulator

DATE: 03-JUN-2010  
 UNDULATOR #01  
 DATASET #0001  
 PROGRAM VERSION 2.0



Top Magnetic Structure       $C/L$  Offset      Length  
 Bottom Magnetic Structure    -0.485            3380.679  
 Strongback                      -0.470            3380.808  
    0.000            3399.796

Dimensions in mm                      Angles in mrad

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

NUM.	X	Y	Z
1	-0.1614	179.9375	-1558.508
2	-0.1790	179.8488	-585.0703
3	-0.1126	179.8727	591.0932
4	-0.0309	179.8768	1561.8320
5	248.2390	0.0951	-1558.644
6	248.1590	0.1303	-584.9974
7	248.2101	0.2511	590.8448
8	248.1951	0.0956	1561.7834



Undulator Dimensional Fiducialization  
 Inprocess Shim Check  
 Wide Gap Undulator

DATE: 03-JUN-2010  
 UNDUULATOR #01  
 DATASET #0001  
 PROGRAM VERSION 2.0