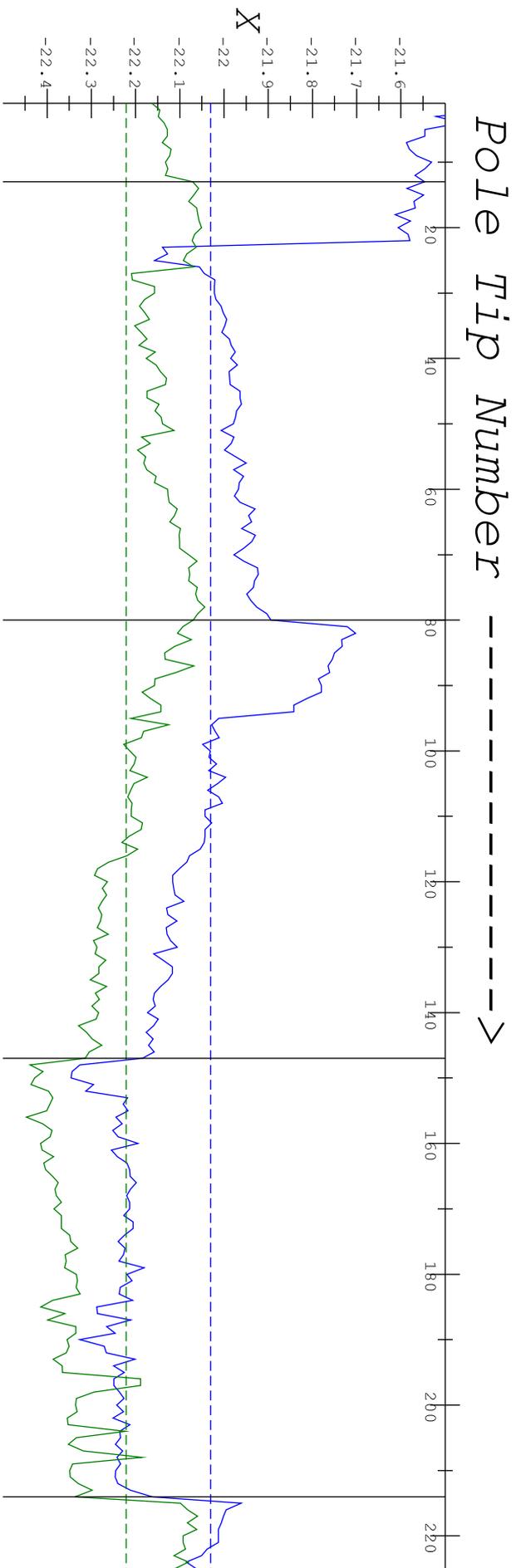


Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Inprocess Shim Check
 6.8mm Gap Undulator

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X values in mm

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

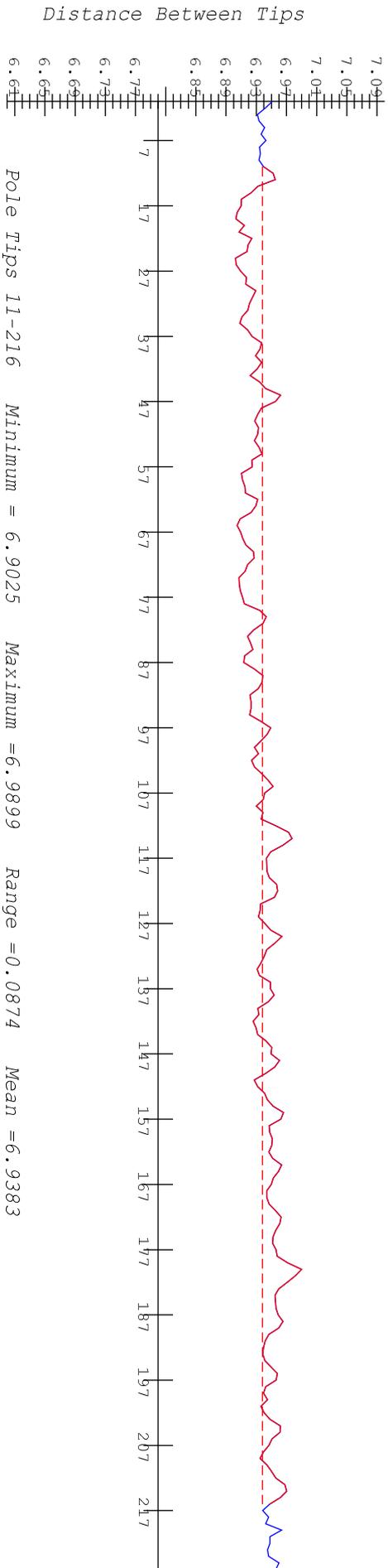
Green Dash = Mean value of all Upper Pole Tips 11.5mm above Magnetic C/L Mean value Upper Pole Tips = -22.222

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 = -22.030

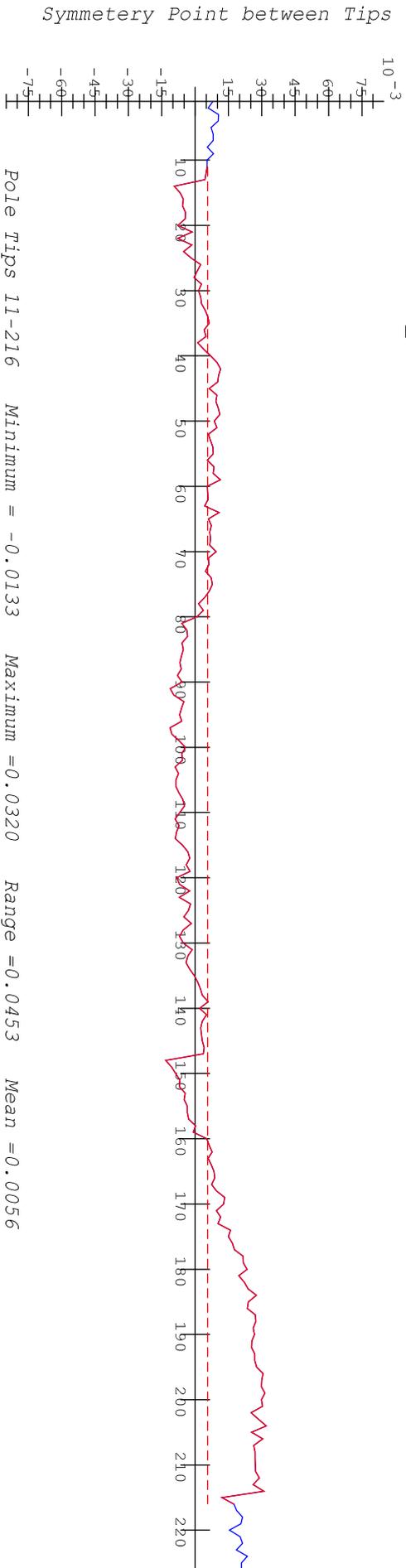
Undulator Pole Tip Location

Inprocess Shim Check
6.8mm Gap Undulator



in mm

Pole Tip Number ----->

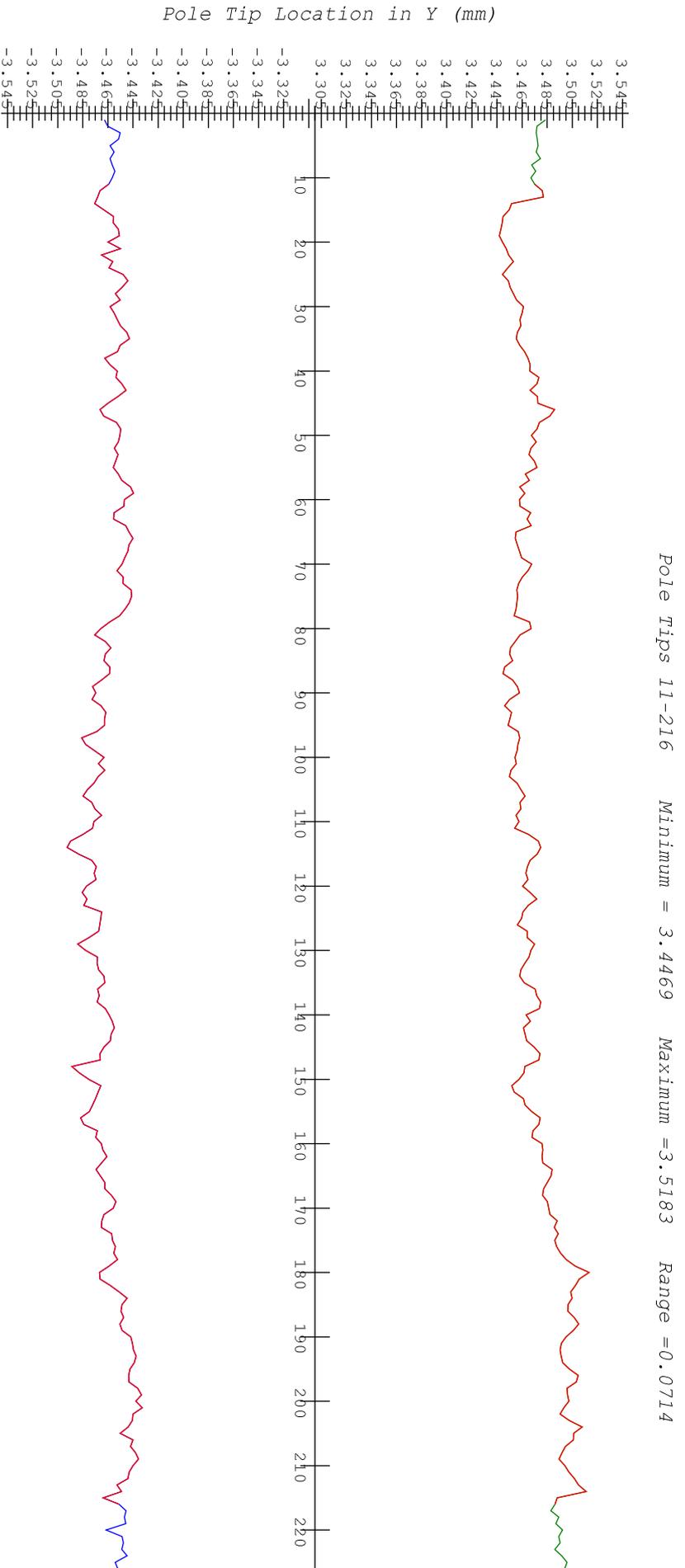


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
 Broken Red line is Mean Value of Symmetry Points and Mean Value of Gap Distance
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect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



Undulator Pole Tip Location
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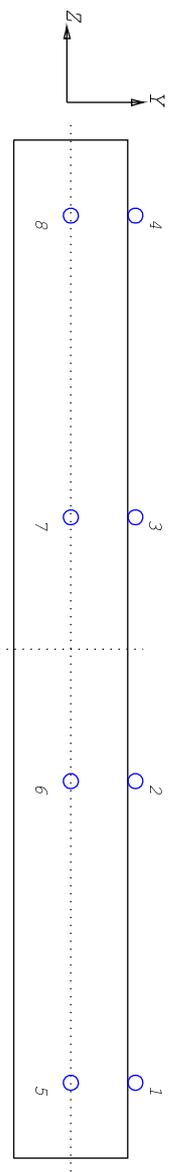


Green + Red = The position of the Upper Pole Tips at Magnetic C/L (Pole Tips 11-216 in Red)
 Blue + Red = The position of the Lower Pole Tips at Magnetic C/L (Pole Tips 11-216 in Red)



Undulator Pole Tip Location
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Top Magnetic Structure C/L Offset Length
 Bottom Magnetic Structure 0.048 3380.940
 Strongback 0.000 3399.796

Dimensions in mm

Angles in mrad

TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0065	179.8318	-1558.668
2	0.1304	179.7721	-585.0161
3	0.0843	179.7781	591.0212
4	0.0644	179.9199	1561.8784
5	248.2382	-0.0616	-1558.556
6	248.3209	0.0526	-584.8649
7	248.3715	0.0076	591.1655
8	248.1779	0.0487	1561.9379



Undulator Dimensional Fiducialization
 Inprocess Shim Check
 6.8MM Gap Undulator

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