Pole Tip Number ------------->

Included Angle Between Tips

Angle of Symmetry Axis to ZX Plane

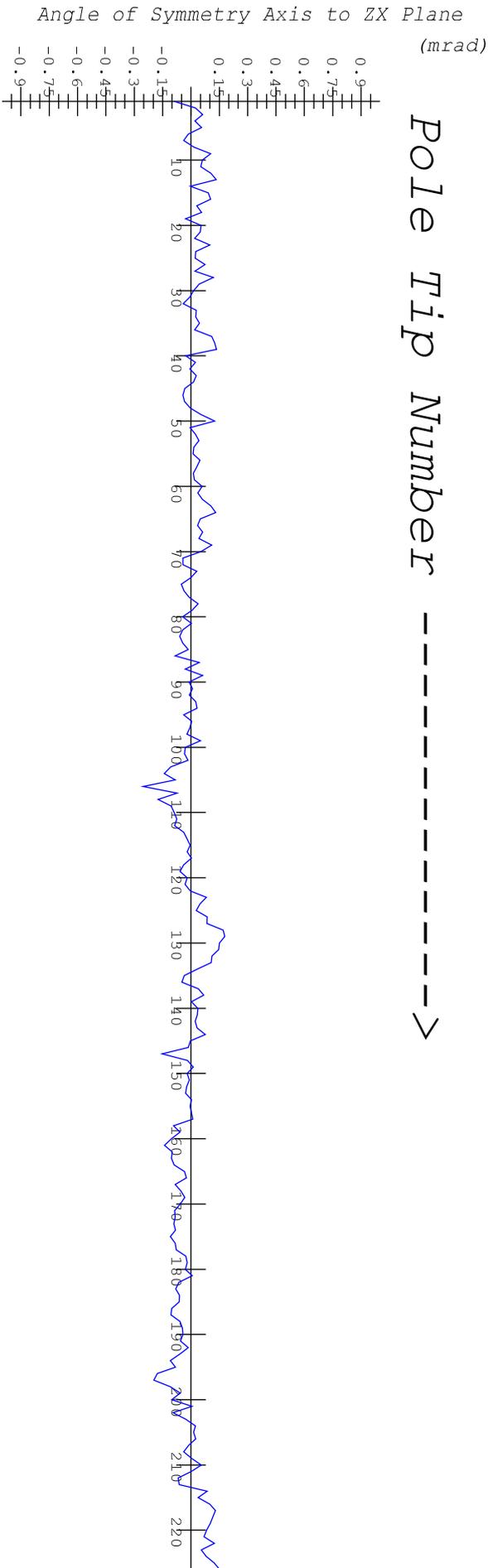(mrad)


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

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Undulator Pole Tip Angles
Inprocess Shim Check
6.8mm Gap Undulator

Pole Tip Number ------->

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Undulator Pole Tip Location
Inprocess Shim Check
6.8mm Gap Undulator

DATE:11-APR-2012
UNDULATOR # 32
DATASET # 0005
PROGRAM VERSION 3.0
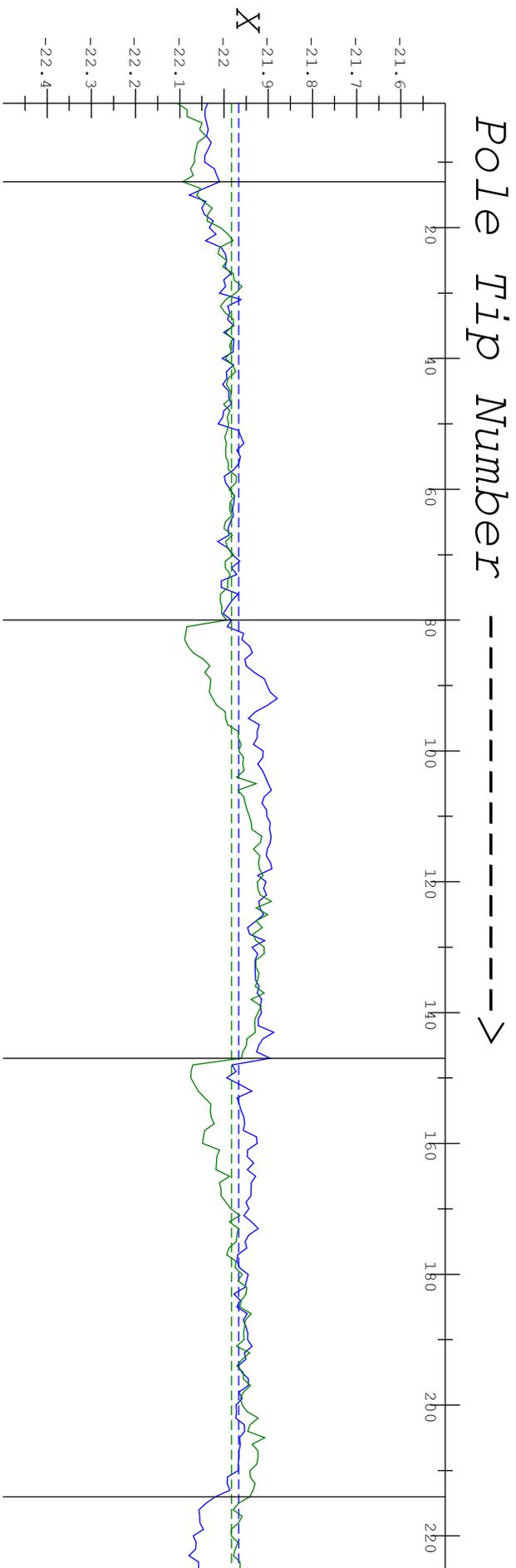
X values in mm
Green Solid = Point on front face of Upper Pole Tip 11.5mm above Magnetic C/L
Green Dash = Mean value of all Upper Pole Tips 11.5mm above Magnetic C/L   Mean value Upper Pole Tips = -21.983
Blue Solid = Point on front face of Lower Pole Tip 11.5mm below Magnetic C/L
Blue Dash = Mean value of all Lower Pole Tips 11.5mm below Magnetic C/L   Mean value Lower Pole Tips = -21.967
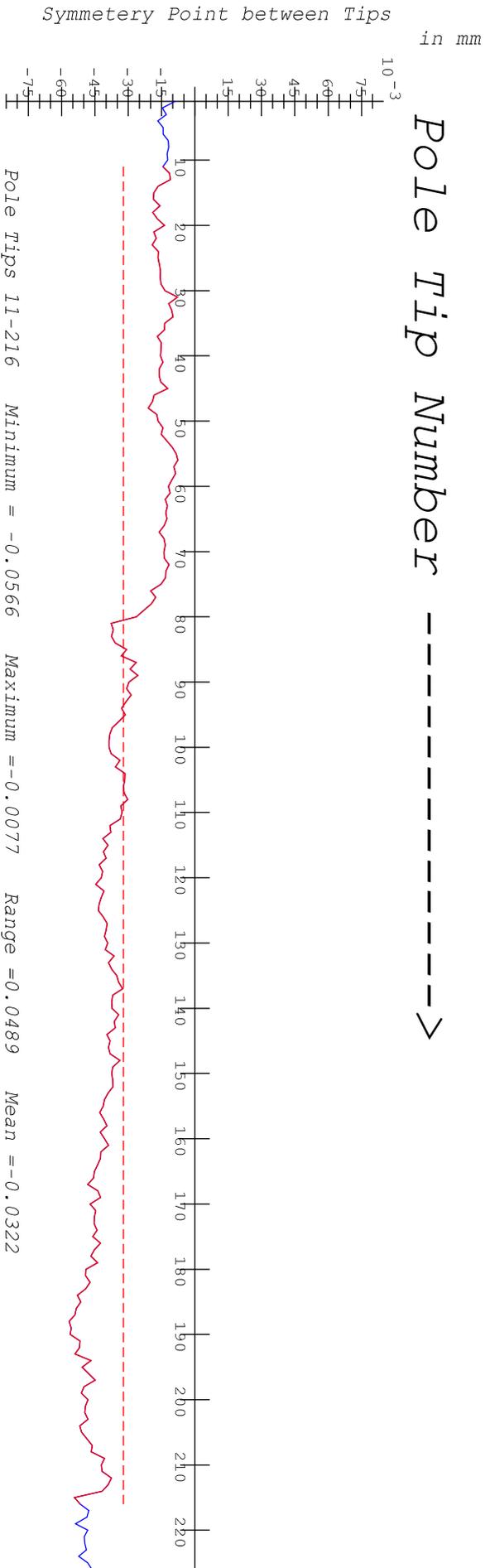
Pole Tip Number ------------->
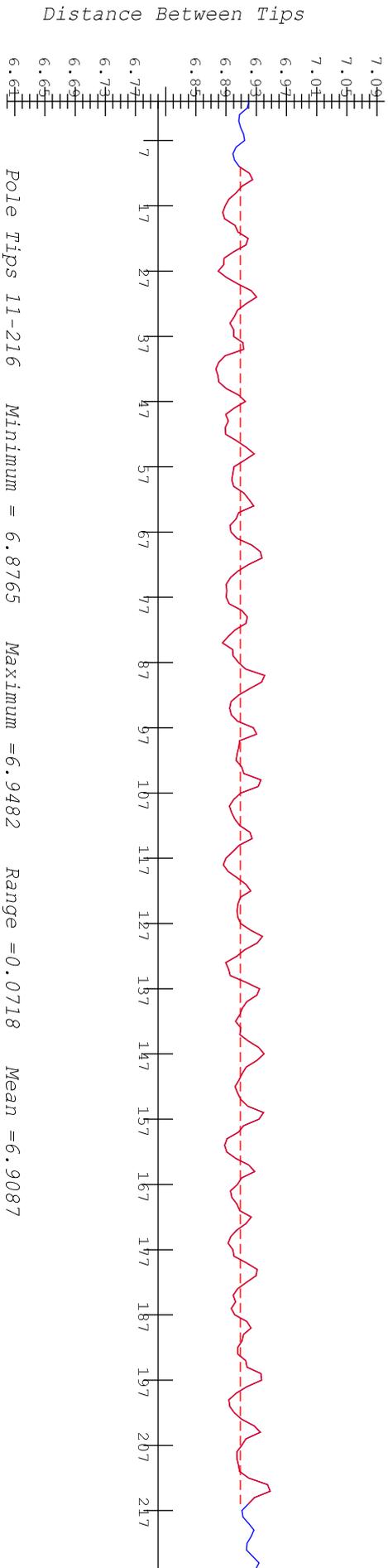
Distance Between Tips

in mm

Pole Tips 11-216   Minimum = 6.8765   Maximum =6.9482   Range =0.0718   Mean =6.9087

Symmetery Point between Tips

Pole Tips 11-216   Minimum = -0.0566   Maximum =-0.0077   Range =0.0489   Mean =-0.0322

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

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Undulator Pole Tip Location
Inprocess Shim Check
6.8mm Gap Undulator

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Pole Tip Location in Y (mm)

Pole Tip Number ------->

Pole Tips 11-216   Minimum = 3.3949   Maximum =3.4575   Range =0.0625

Pole Tips 11-216   Minimum = -3.5186   Maximum =-3.4543   Range =0.0644
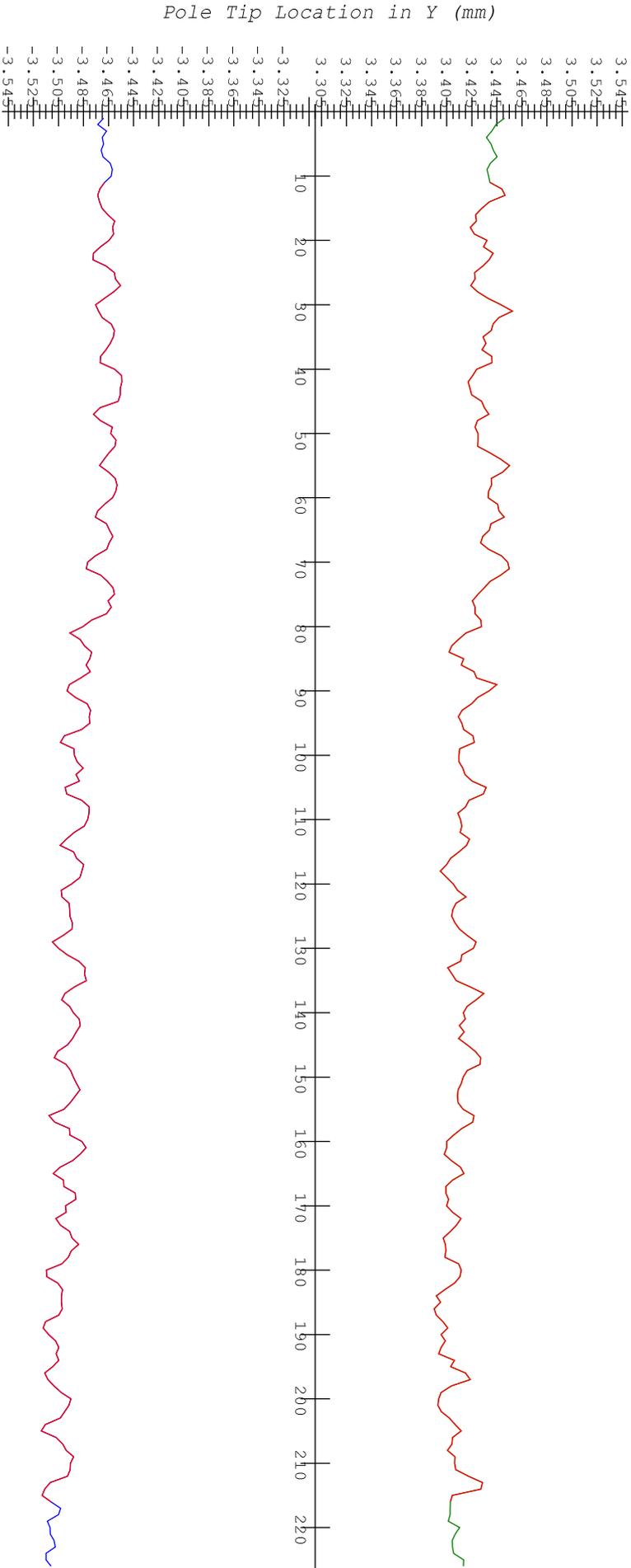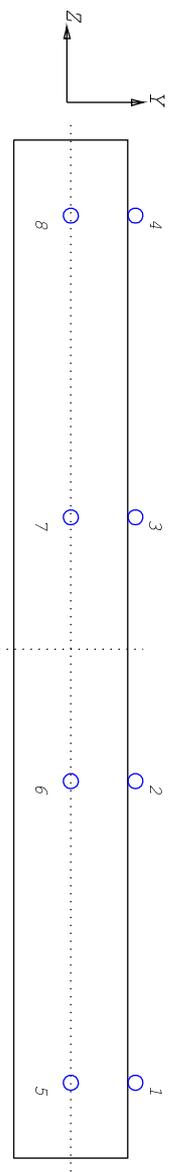
Green + Red = The position of the Upper Pole Tips at Magnetic C\L (Pole Tips 11-216 in Red)
Blue + Red = The position of the Lower Pole Tips at Magnetic C\L (Pole Tips 11-216 in Red)

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Undulator Pole Tip Location
Inprocess Shim Check
6.8 mm Gap Undulator

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Undulator Dimensional Fiducialization
Inprocess Shim Check
6.8MM Gap Undulator

Z

Y

Top Magnetic Structure
Bottom Magnetic Structure
Strongback

	C\L Offset	Length
Top Magnetic Structure	-0.587	3380.730
Bottom Magnetic Structure	-0.535	3380.737
Strongback	0.000	3399.796

Dimensions in mm   Angles in mrad

TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0435	179.8327	-1558.600
2	-0.0551	179.7212	-585.0792
3	0.0680	179.6969	591.0236
4	0.0595	179.8158	1561.8300
5	248.2399	0.0833	-1558.580
6	248.3204	0.0118	-585.9601
7	248.3055	-0.0197	591.0716
8	248.2563	0.0317	1561.9226