

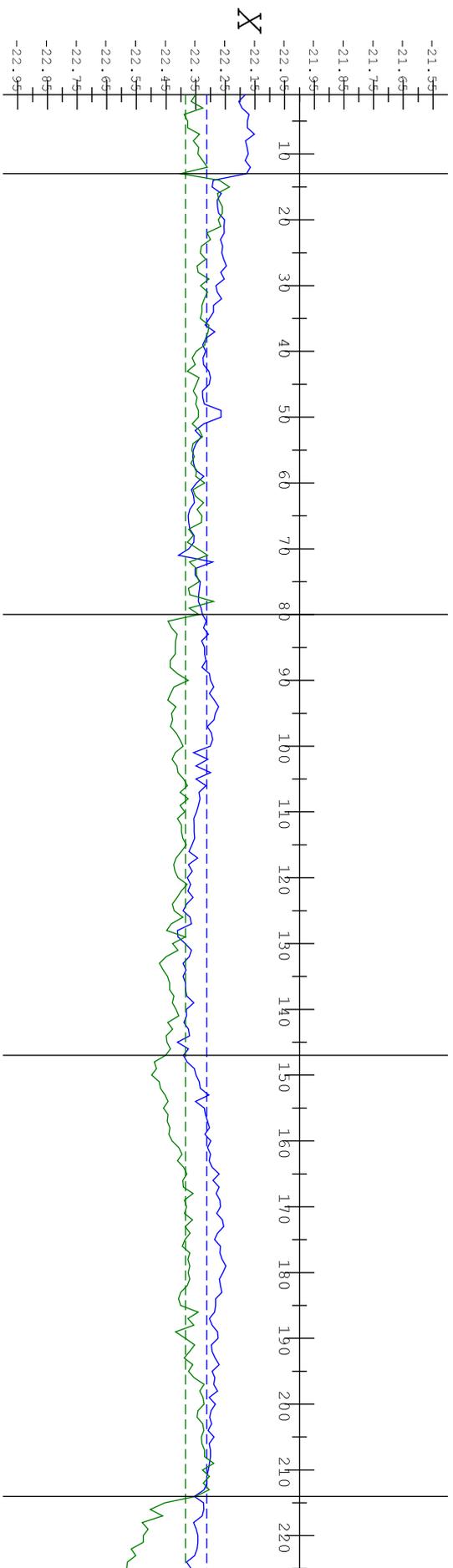
*Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
Included Angle is the angle between the Upper and Lower Pole Tips*

**SLAC**  
LCLS-MMF  
LEITZ CMM

*Undulator Pole Tip Angles  
Post Align., Before Trans.*

DATE: 30-MAY-2007  
UNDULATOR # 11  
VERSION 1.0

# Pole Tip Number ----->



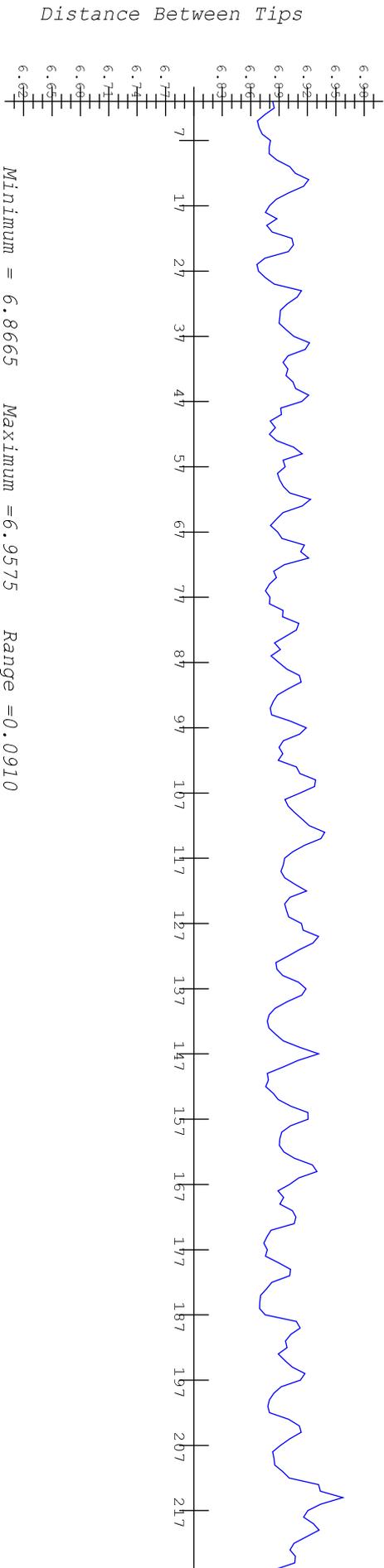
X values in mm

Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L  
 Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.384  
 Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L  
 Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.313

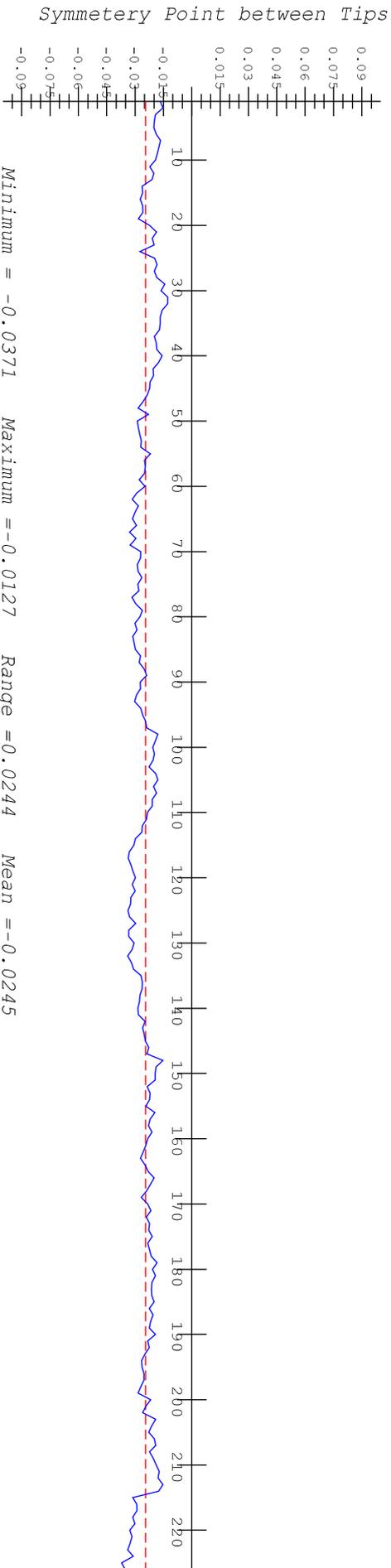
**SLAC**  
 LCLS-MMF  
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Undulator Pole Tip Location  
 Post Align., Before Trans.

DATE: 30-MAY-2007  
 UNDUULATOR # 11  
 VERSION 1.0



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  
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L

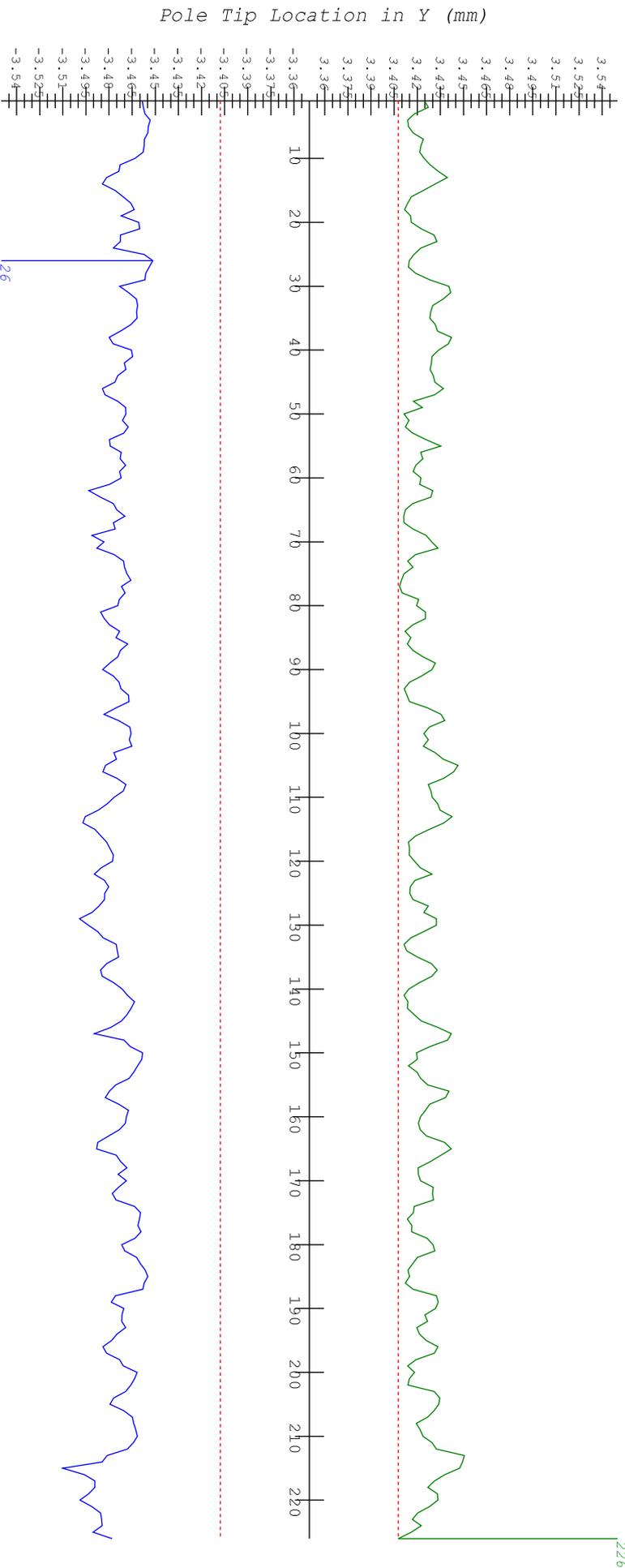
**SLAC**  
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Undulator Pole Tip Location  
 Post Alignment, Before Trans.

DATE: 30-MAY-2007  
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Maximum Chamber Gap = 6.8154

Minimum = 3.4077    Maximum = 3.4506    Range = 0.0429



Pole Tip Number ----->

Green = The position of the Upper Pole Tips at Magnetic C\L  
Blue = The position of the Lower Pole Tips at Magnetic C\L  
Max. Chamber Gap = The maximum width vacuum chamber that will fit centered on the Magnetic C\L (2\*Min. Dev. from C\L)

**SLAC**  
LCLS-MMF  
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Undulator Pole Tip Location  
Post Alignment, Before Trans.

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