

Actual points : * * *

Neg. Deviation : ———

Pos. Deviation : ———

Notation : **UNDULATOR**

Producer :

Draw. No. :

Ser. No. : **5 shim check**

Part No. :

Department:

Calcul. ..: **Bestfit (Gauss)**

Filtering: **No**

Probe dia.: **5** mm

Element : **PLA_B**

X

Y

Z

No.

Form: **0.1923** Neg. Deviat.: **-0.1254** **115.4603** **-92.5027** **-3381.627** **31**

Error Magnif.: **3000** Pos. Deviat.: **0.0669** **115.6546** **-92.0050** **-1706.014** **45**

No. of points: **62**

MESSTECHNIK WETZLAR

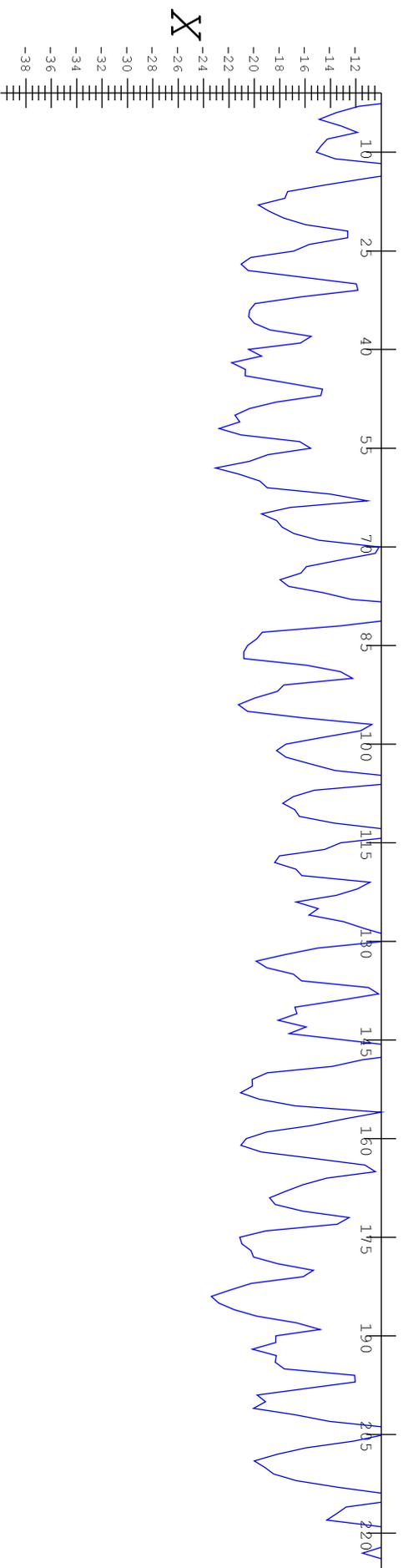


FLATNESS
ISO 1101

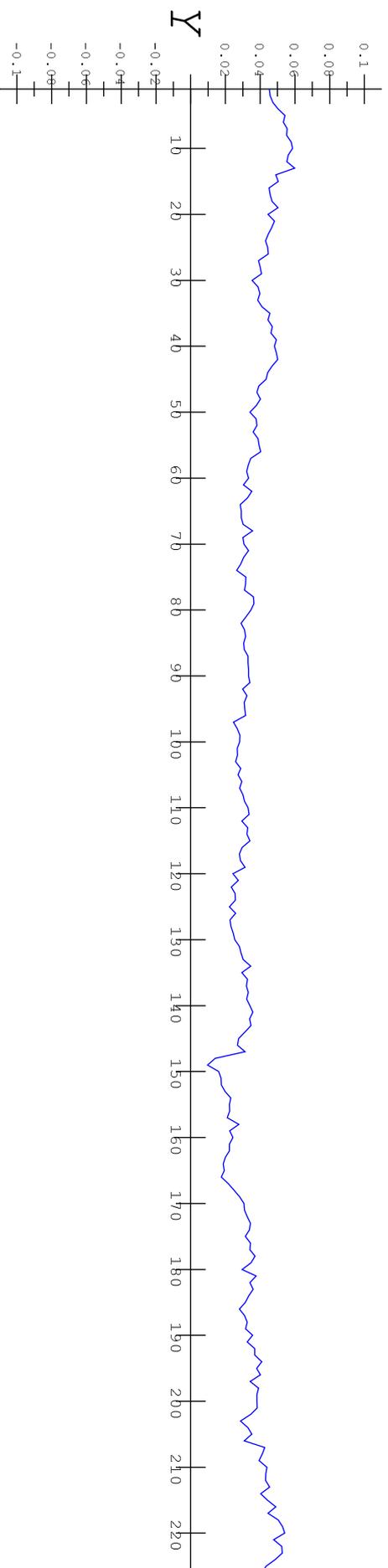
Inspector : **Quindos**

Date: **17-DEC-2008**

Time: **08:47:41**

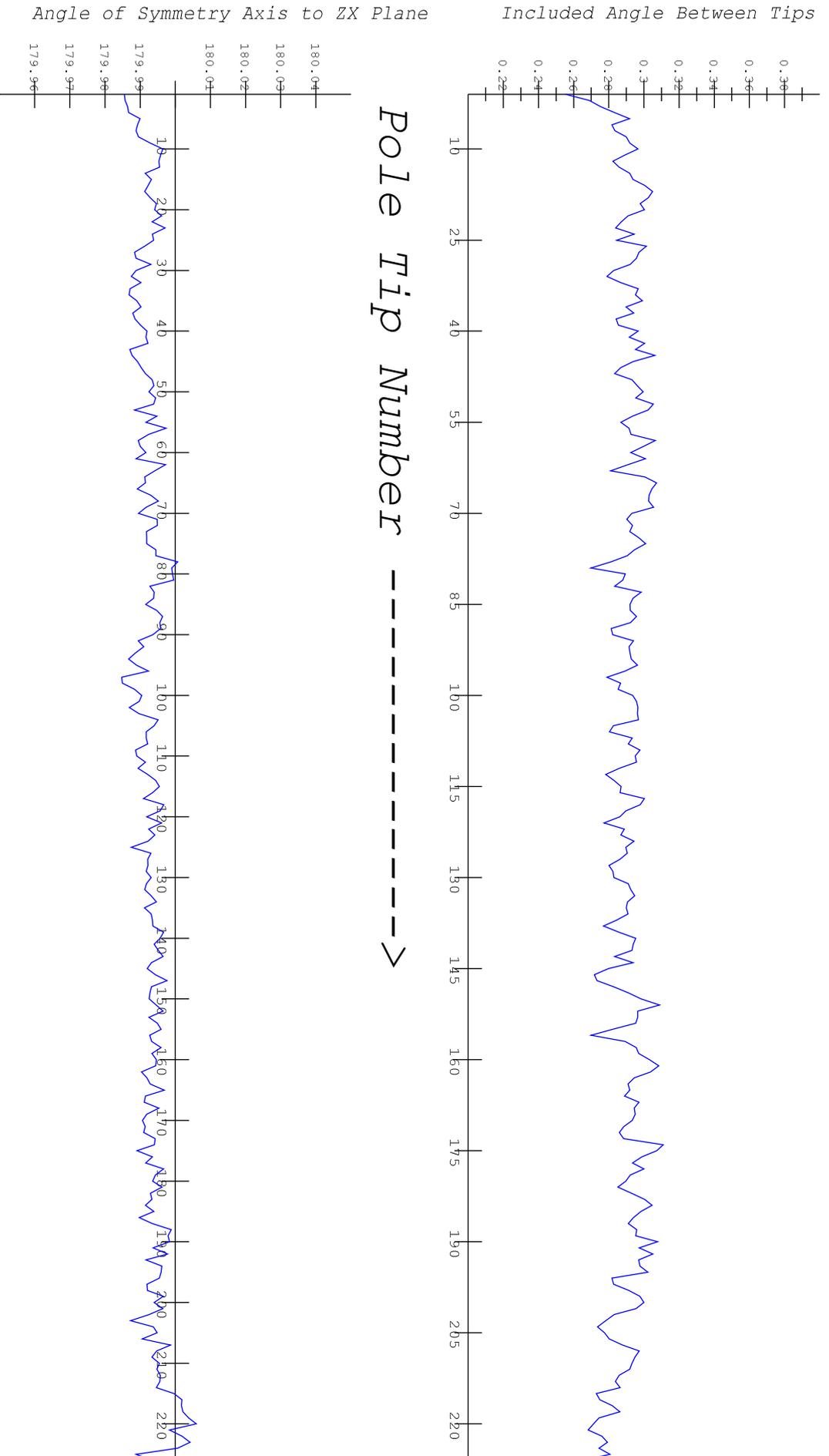


Pole Tip Number ----->



Offsets of Pole Tip Symmetry Point from Nominal Undulator center line
 Pole Tip Symmetry Point is the point where the symmetry axis between tips is bisected by the 6.8mm cross section

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Offsets Measured unrestrained</p>	<p>DATE: 17-DEC-2008 UNDUULATOR #5 shim check</p>
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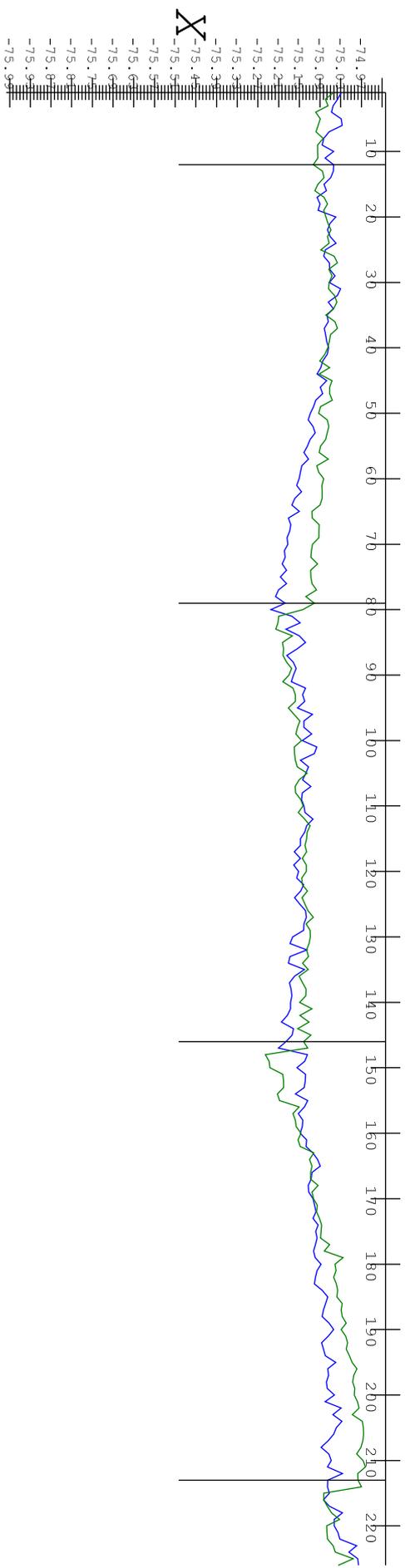
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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 LEITZ CMM

Undulator Pole Tip Angles
 Measured unrestrained

DATE: 17-DEC-2008
 UNDIULATOR #5 shim check

Pole Tip Number ----->

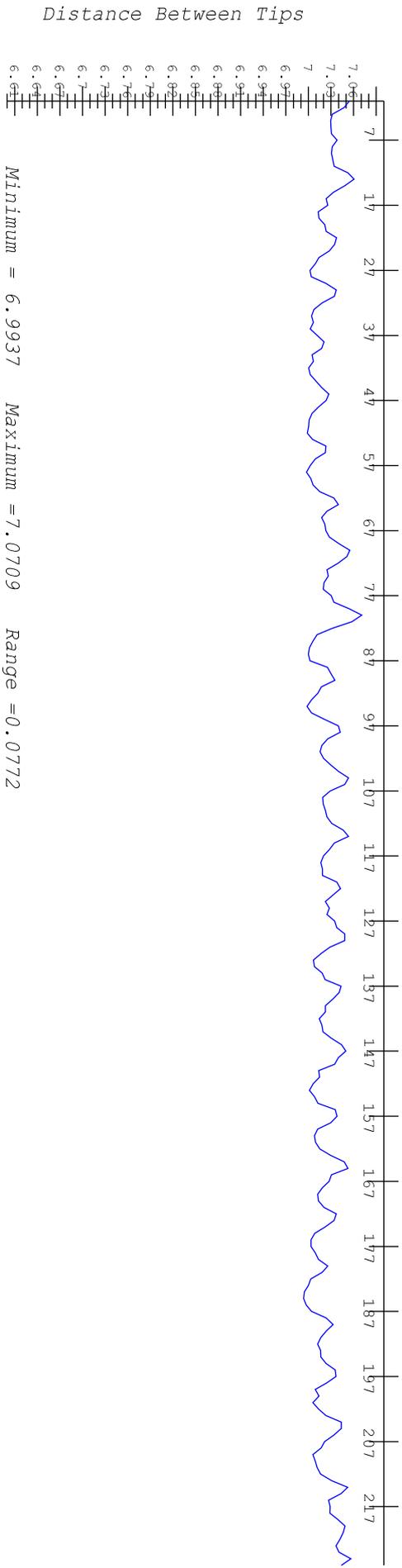


Green = Point on Front face of Upper Pole Tip 10mm above Nominal C/L
 Blue = Point on Front face of Lower Pole Tip 10mm below Nominal C/L

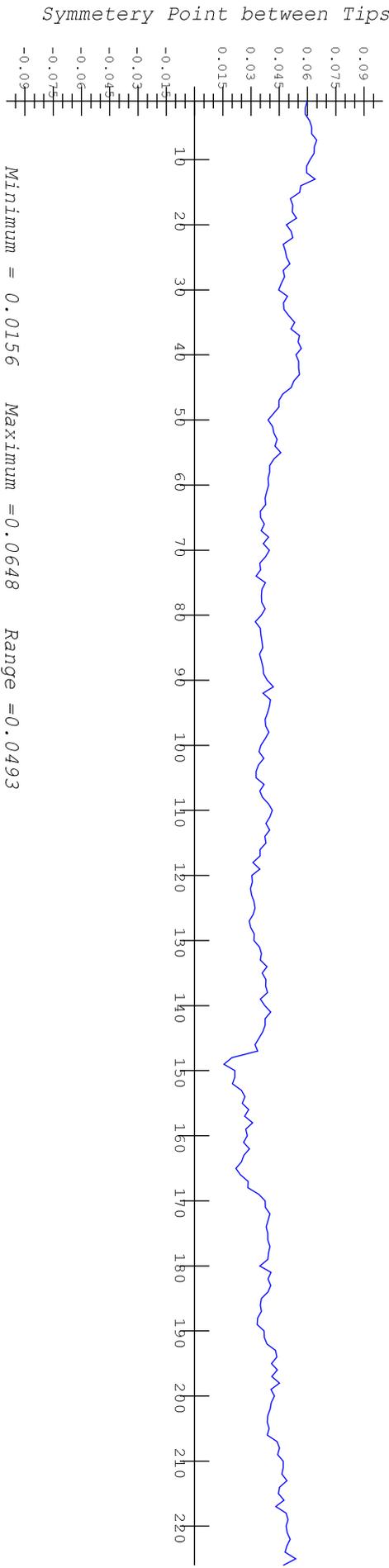
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Undulator Pole Tip Location
 Measured unrestrained

DATE: 17-DEC-2008
 UNDUULATOR #5 shim check



Pole Tip Number ----->

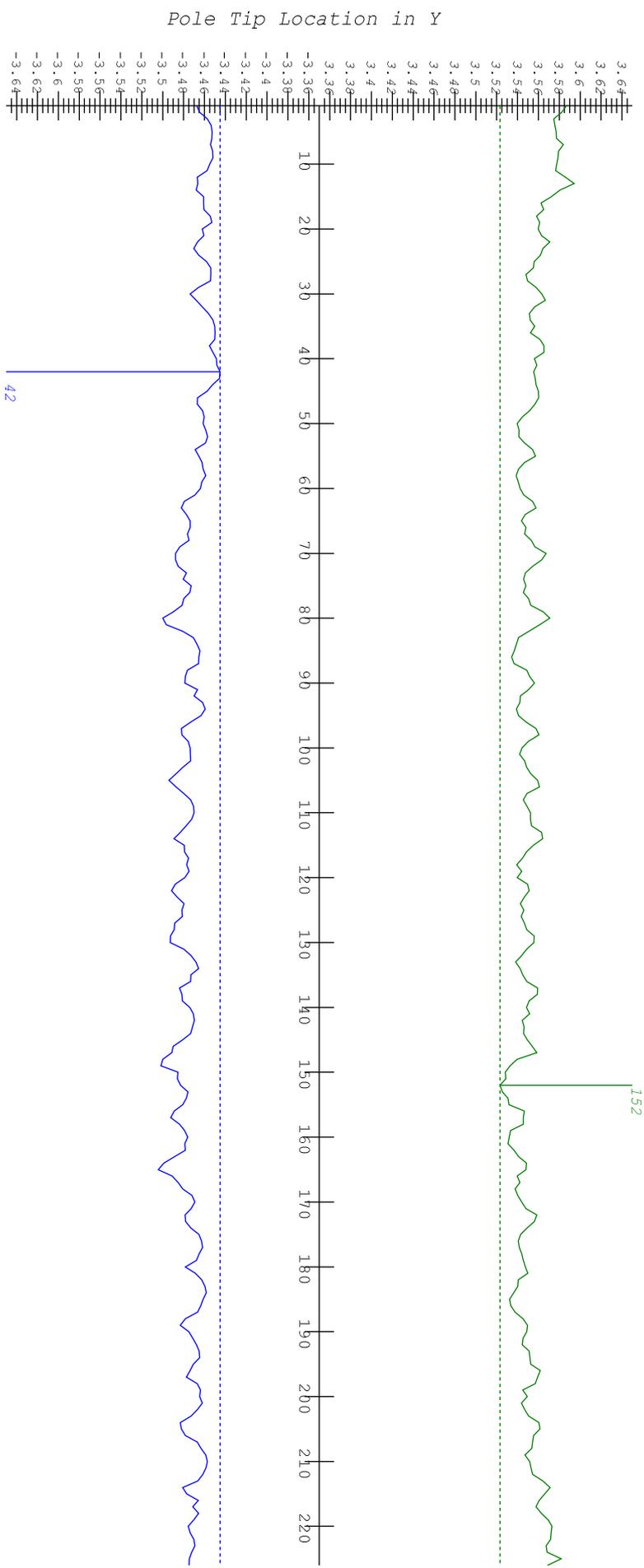


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Undulator Pole Tip Location Measured unrestrained</p>	<p>DATE: 17-DEC-2008 UNDUULATOR # 5 shim check</p>
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MINIMUM GAP = 6.9681

Minimum = 3.5232 Maximum = 3.5942 Range = 0.0710



Minimum = -3.5043 Maximum = -3.4449 Range = 0.0594

Pole Tip Number ----->

Green = The position of the Upper Pole Tips at 53mm from Datum -B-
Blue = The position of the Lower Pole Tips at 53mm from Datum -B-
Min. Gap = The minimum gap between pole tips 53mm from Datum -B-

SLAC
LCLS-MMF
LEITZ CMM

Undulator Pole Tip Location
Measured unrestrained

DATE: 17-DEC-2008
UNDIULATOR #5 shim check