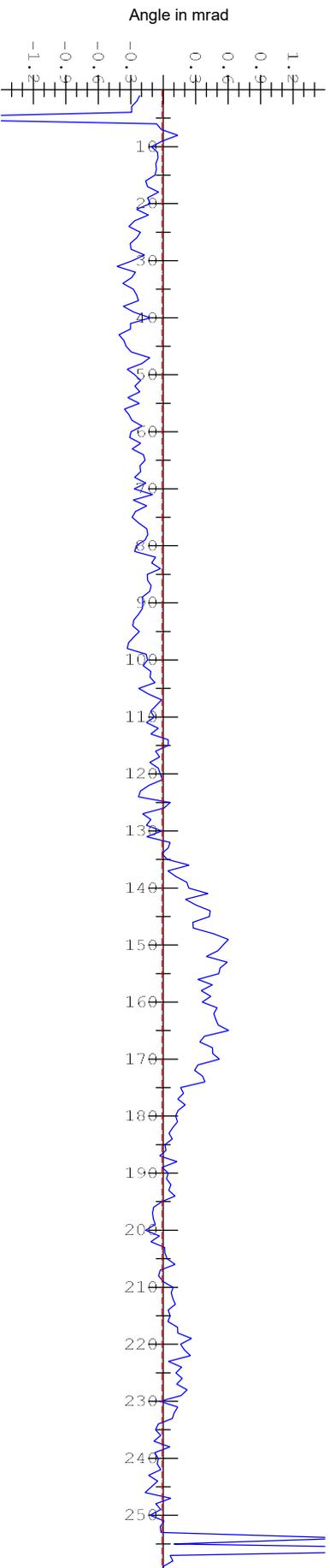


### Included Angle Between Pole Tips

Pole Tip Num. ----->

### Angle of Symmetry Line between Pole Tips to Tuning Gap ZX Plane



Dimensions in MM, Angles in Milliradians

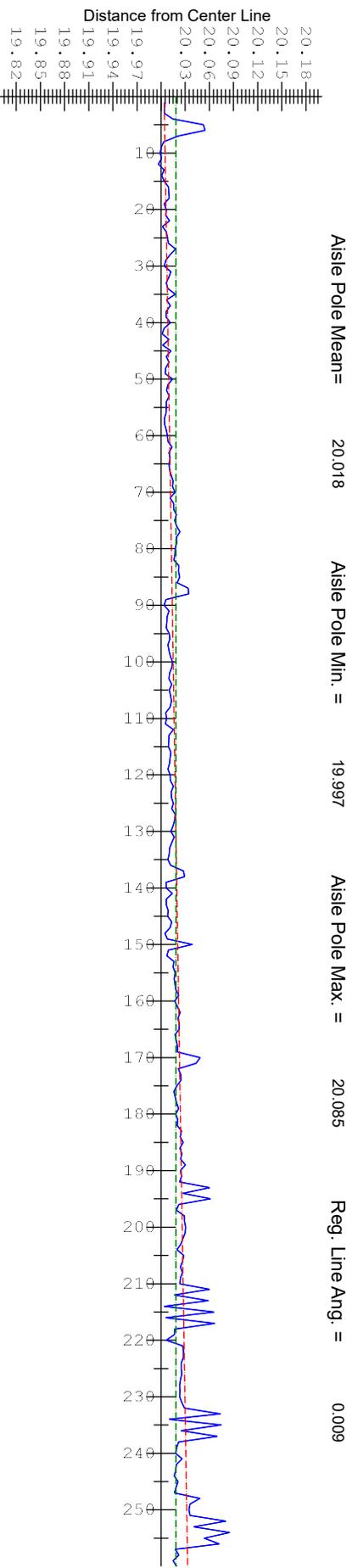


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METROLOGY

## HGVPU - Pole Tip Angles

|               |        |                 |         |                 |         |
|---------------|--------|-----------------|---------|-----------------|---------|
| Nominal Gap : | 40.000 | US Full :       | 40.0004 | DS Full :       | 40.0004 |
| Nom. Taper :  | 0.000  | US Wall Half :  | 19.9894 | DS Wall Half :  | 19.9910 |
|               |        | US Aisle Half : | 19.9922 | DS Aisle Half : | 19.9900 |

|          |               |
|----------|---------------|
| S/N      | : HXU 031     |
| Date     | : 05-MAR-2020 |
| Data Set | : 0001        |
| Run      | : FINAL       |
| Cam Pos. | : B           |

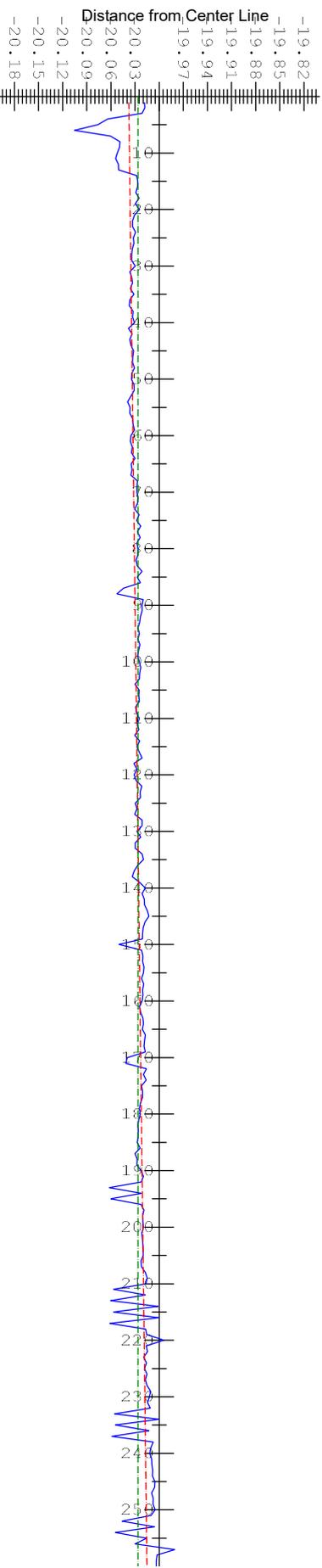


## Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. ----->

Blue = Pole Tip points  
Green = Mean line  
Red = Regression line thru points

Minimum Clearance Gap = 39.961



## Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

|  |   |                 |           |                 |                      |                           |
|--|---|-----------------|-----------|-----------------|----------------------|---------------------------|
|  | <b>HGVPU - Pole Tip Location from Girder Centerline</b> |                 |           |                 | S/N : <b>HXU 031</b> |                           |
|  | Nominal Gap :   | 40.000          | US Full : | 40.0004         | DS Full :            | 40.0004                   |
| Nom. Taper :   | 0.000   | US Wall Half :  | 19.9894   | DS Wall Half :  | 19.9910              | Date : <b>05-MAR-2020</b> |
|  |   | US Aisle Half : | 19.9922   | DS Aisle Half : | 19.9900              | Data Set : <b>0001</b>    |
|  |   |                 |           |                 |                      | Run : <b>FINAL</b>        |
|  |   |                 |           |                 |                      | Cam Pos. : <b>B</b>       |

**Values Calculated from Regression Line End Points**

| Dimension              | X Value | Y Value | Z Value  | Calc. Value |
|------------------------|---------|---------|----------|-------------|
| US Aisle Pole Tip(1)   | 20.004  | 0.000   | 8.750    |             |
| US Wall Pole Tip(1)    | -20.038 | 0.000   | 8.750    |             |
| US Sym. Pt.            | -0.017  |         |          |             |
| US Gap                 |         |         |          | 40.042      |
| DS Aisle Pole Tip(260) | 20.033  | 0.000   | 3375.750 |             |
| DS Wall Pole Tip(260)  | -20.015 | 0.000   | 3375.750 |             |
| DS Sym. Pt.            | 0.009   |         |          |             |
| DS Gap                 |         |         |          | 40.048      |
| Taper                  |         |         |          | 0.006       |

Dimensions in MM

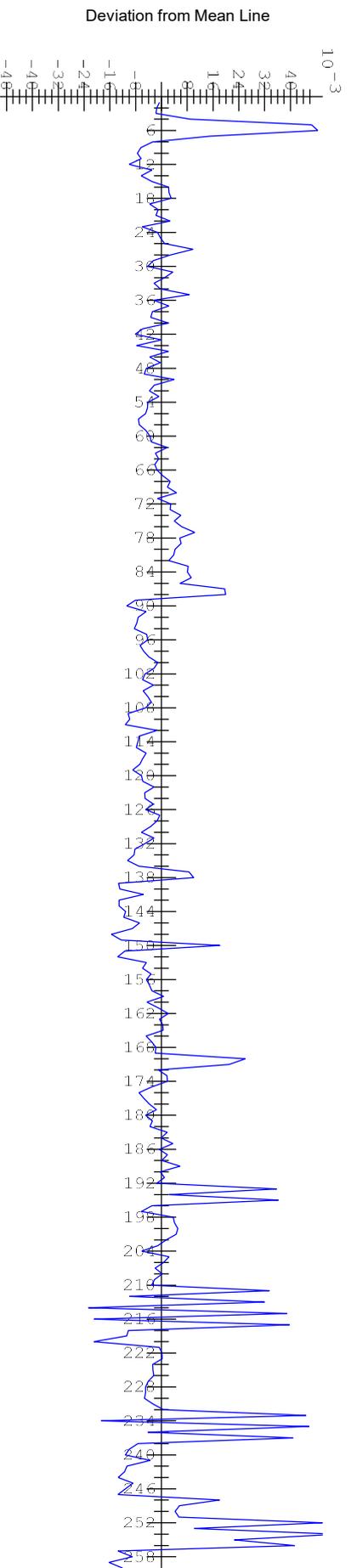


**HGVPU - Gap Calc. from Regression Line End Points**

|               |        |                 |         |                 |         |
|---------------|--------|-----------------|---------|-----------------|---------|
| Nominal Gap : | 40.000 | US Full :       | 40.0004 | DS Full :       | 40.0004 |
| Nom. Taper :  | 0.000  | US Wall Half :  | 19.9894 | DS Wall Half :  | 19.9910 |
|               |        | US Aisle Half : | 19.9922 | DS Aisle Half : | 19.9900 |

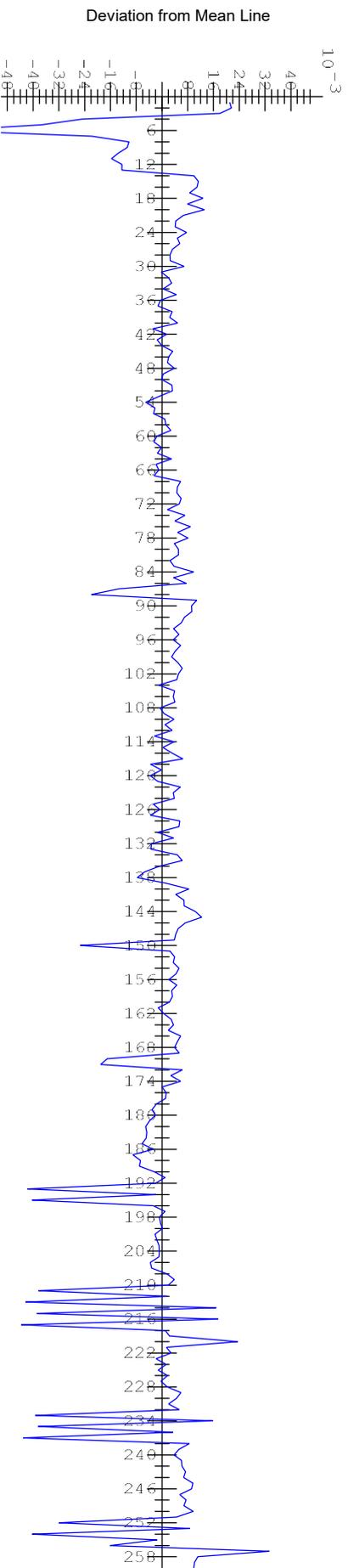
|          |               |
|----------|---------------|
| S/N      | : HXU_031     |
| Date     | : 05-MAR-2020 |
| Data Set | : 0001        |
| Run      | : FINAL       |
| Cam Pos. | : B           |





### Aisle Pole Tips

### Wall Pole Tips



## Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane

Dimensions in MM



## HGVPU - Pole Tip Deviation from Mean Line

|               |        |                 |         |                 |         |
|---------------|--------|-----------------|---------|-----------------|---------|
| Nominal Gap : | 40.000 | US Full :       | 40.0004 | DS Full :       | 40.0004 |
| Nom. Taper :  | 0.000  | US Wall Half :  | 19.9894 | DS Wall Half :  | 19.9910 |
|               |        | US Aisle Half : | 19.9922 | DS Aisle Half : | 19.9900 |

|          |               |
|----------|---------------|
| S/N      | : HXU_031     |
| Date     | : 05-MAR-2020 |
| Data Set | : 0001        |
| Run      | : FINAL       |
| Cam Pos. | : B           |