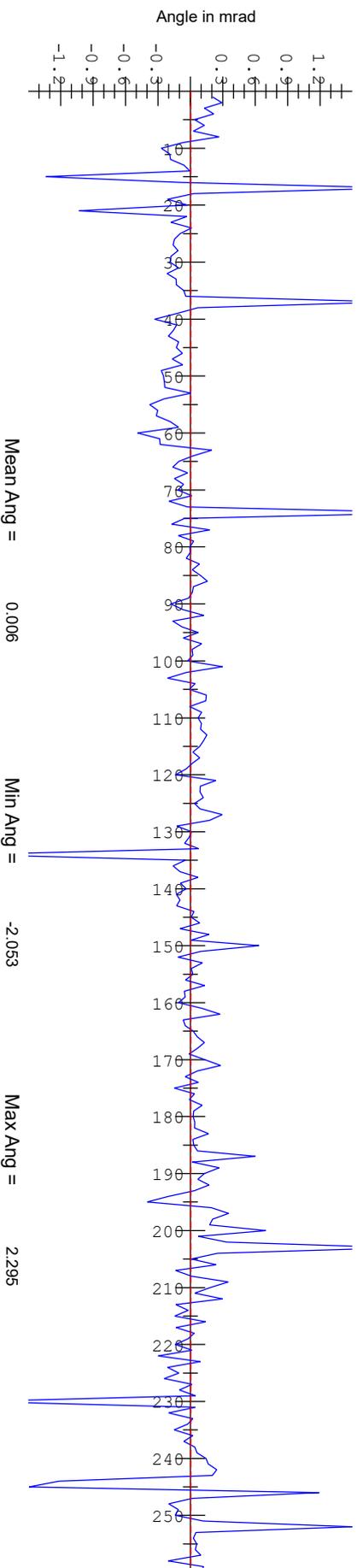


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



Dimensions in MM, Angles in Milliradians

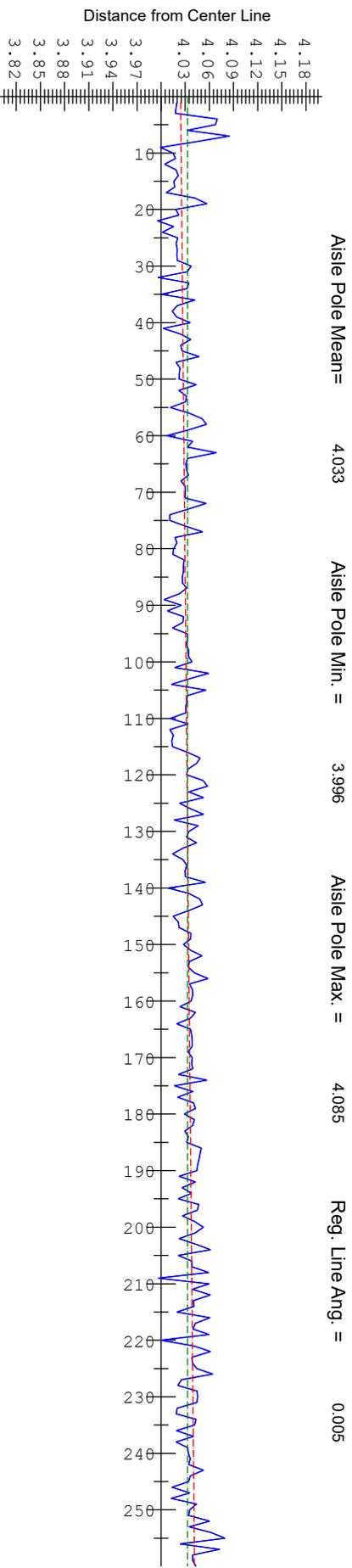


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METROLOGY

HGVPU - Pole Tip Angles

| | | | | | |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 8.000 | US Full : | 7.9992 | DS Full : | 8.0007 |
| Nom. Taper : | 0.000 | US Wall Half : | 3.9982 | DS Wall Half : | 4.0006 |
| | | US Aisle Half : | 3.9993 | DS Aisle Half : | 3.9981 |

| | |
|----------|---------------|
| S/N | : HXU_000 |
| Date | : 31-AUG-2021 |
| Data Set | : 0001 |
| Run | : FINAL |
| Cam Pos. | : B |



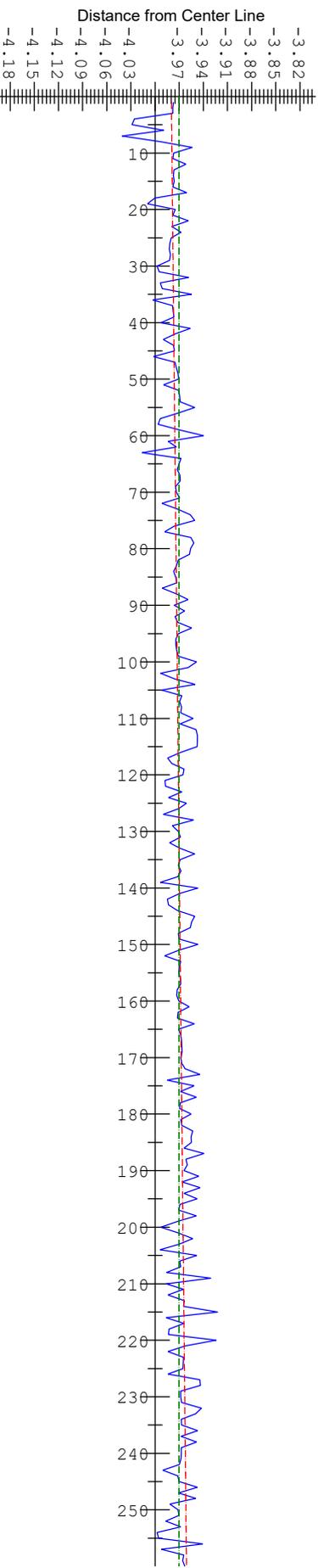
Pole Tip Num. ----->

Aisle Pole Tips at Nom. Beam Height

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

Wall Pole Tips at Nom. Beam Height

Minimum Clearance Gap = 7.844



Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

HGVPU - Pole Tip Location from Girder Centerline

| | | | | | |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 8.000 | US Full : | 7.9992 | DS Full : | 8.0007 |
| Nom. Taper : | 0.000 | US Wall Half : | 3.9982 | DS Wall Half : | 4.0006 |
| | | US Aisle Half : | 3.9993 | DS Aisle Half : | 3.9981 |

| | |
|----------|---------------|
| S/N | : HXU_000 |
| Date | : 31-AUG-2021 |
| Data Set | : 0001 |
| Run | : FINAL |
| Cam Pos. | : B |

Values Calculated from Regression Line End Points

| Dimension | X Value | Y Value | Z Value | Calc. Value |
|------------------------|---------|---------|----------|-------------|
| US Aisle Pole Tip(1) | 4.024 | 0.000 | 8.750 | |
| US Wall Pole Tip(1) | -3.980 | 0.000 | 8.750 | |
| US Sym. Pt. | 0.022 | | | |
| US Gap | | | | 8.004 |
| DS Aisle Pole Tip(260) | 4.041 | 0.000 | 3375.750 | |
| DS Wall Pole Tip(260) | -3.961 | 0.000 | 3375.750 | |
| DS Sym. Pt. | 0.040 | | | |
| DS Gap | | | | 8.002 |
| Taper | | | | -0.002 |

Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

| | | | | | |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 8.000 | US Full : | 7.9992 | DS Full : | 8.0007 |
| Nom. Taper : | 0.000 | US Wall Half : | 3.9982 | DS Wall Half : | 4.0006 |
| | | US Aisle Half : | 3.9993 | DS Aisle Half : | 3.9981 |

| | |
|----------|---------------|
| S/N | : HXU_000 |
| Date | : 31-AUG-2021 |
| Data Set | : 0001 |
| Run | : FINAL |
| Cam Pos. | : B |



HGVPU - Pole Tip Deviation from Mean Line

Nominal Gap : 8.000 US Full : 7.9992 DS Full : 8.0007

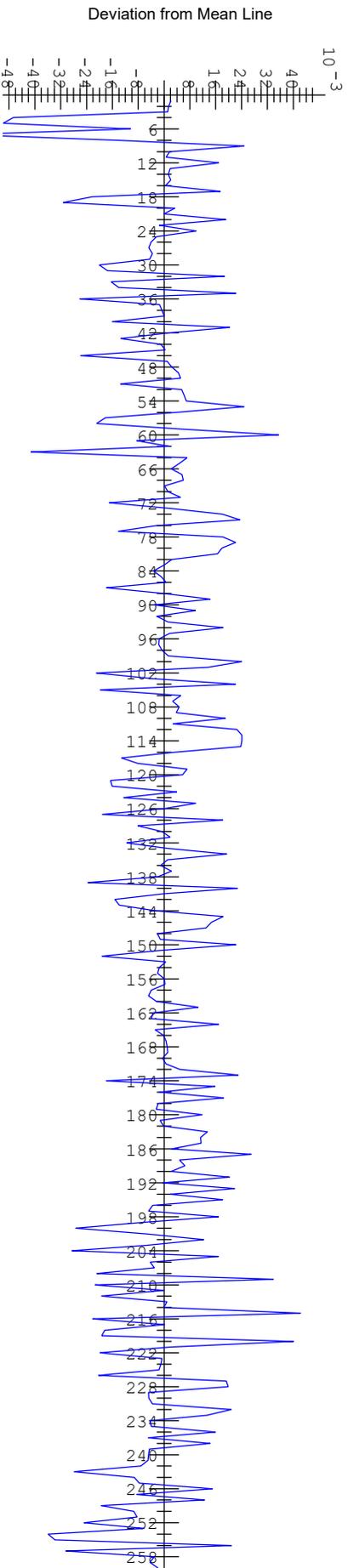
Nom. Taper : 0.000 US Wall Half : 3.9982 DS Wall Half : 4.0006

US Aisle Half : 3.9993 DS Aisle Half : 3.9981

S/N : HXU_000
 Date : 31-AUG-2021
 Data Set : 0001
 Run : FINAL
 Cam Pos. : B

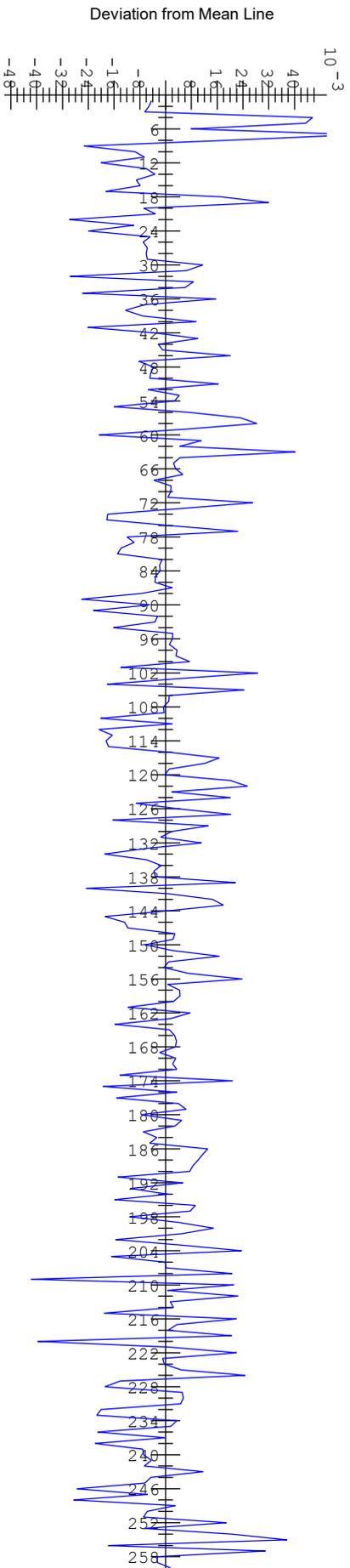
Pole Tip Deviations from Jaw Mean Lines when aligned to actual Gap Sym. Plane

Dimensions in MM



Pole Tip Num. ----->

Wall Pole Tips



Aisle Pole Tips