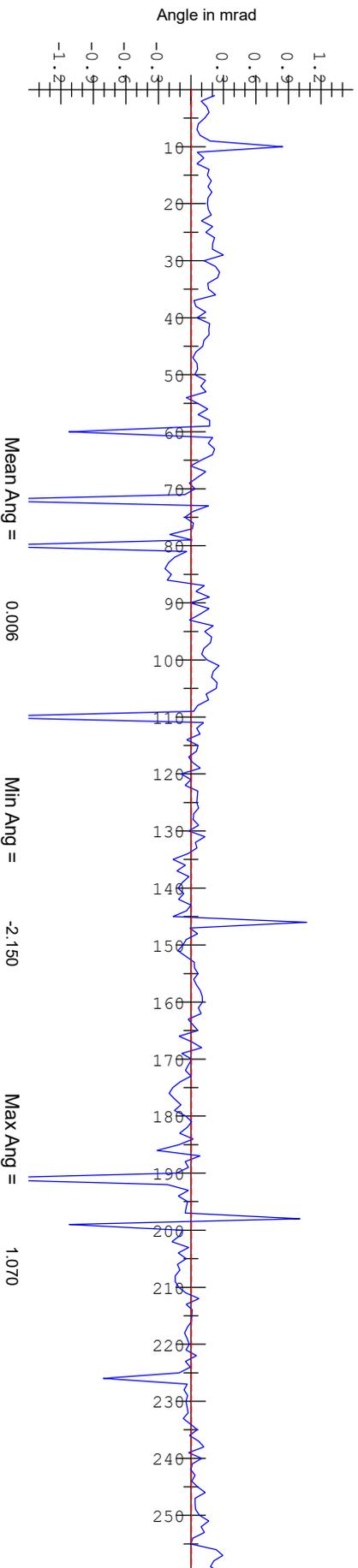


Included Angle Between Pole Tips

Pole Tip Num. ----->

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



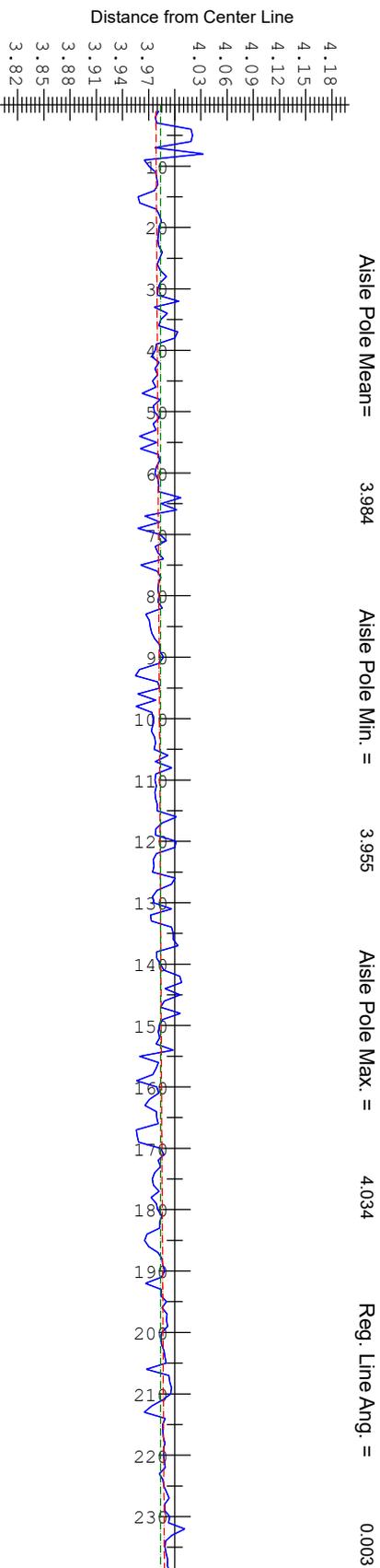
Dimensions in MM, Angles in Milliradians

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HGVPU - Pole Tip Angles

| | | | | | |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 8.000 | US Full : | 7.9997 | DS Full : | 7.9999 |
| Nom. Taper : | 0.000 | US Wall Half : | 4.0014 | DS Wall Half : | 4.0021 |
| | | US Aisle Half : | 4.0024 | DS Aisle Half : | 4.0026 |

| | |
|----------|---------------|
| S/N | : HXU 016 |
| Date | : 10-SEP-2020 |
| Data Set | : 0001 |
| Run | : FINAL |
| Cam Pos. | : B |

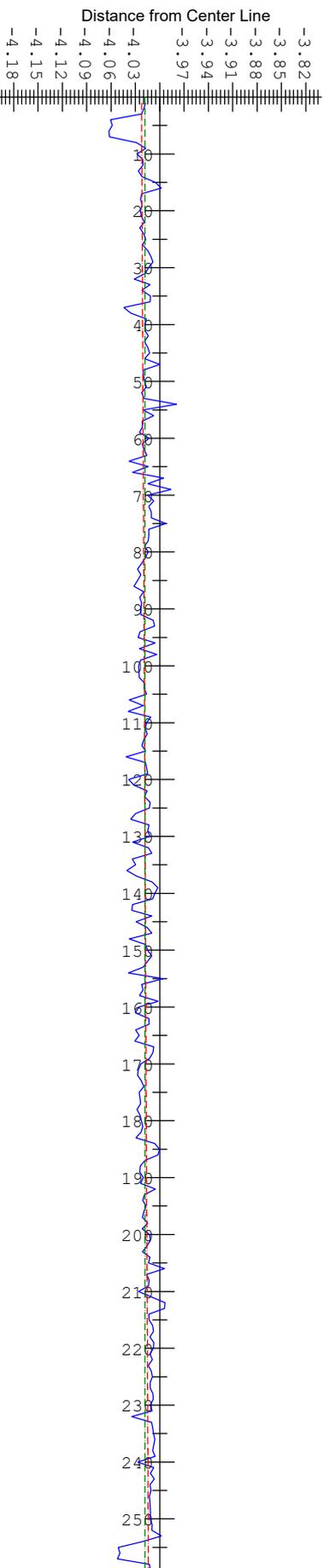


Aisle Pole Tips at Nom. Beam Height

Pole Tip Num. ----->

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

Minimum Clearance Gap = 7.910



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 Wall Half : | 4.0014 | |
| Nom. Taper : | 0.000 | US Aisle Half : | 4.0024 | DS Aisle Half : | 4.0026 |
| US Full : | 7.9997 | DS Full : | 7.9999 | DS Wall Half : | 4.0021 |
| S/N | : HXU 016 | | | | |
| Date | : 10-SEP-2020 | | | | |
| 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) | 3.978 | 0.000 | 8.750 | |
| US Wall Pole Tip(1) | -4.022 | 0.000 | 8.750 | |
| US Sym. Pt. | -0.022 | | | |
| US Gap | | | | 8.001 |
| DS Aisle Pole Tip(260) | 3.989 | 0.000 | 3375.750 | |
| DS Wall Pole Tip(260) | -4.014 | 0.000 | 3375.750 | |
| DS Sym. Pt. | -0.012 | | | |
| DS Gap | | | | 8.003 |
| Taper | | | | 0.002 |

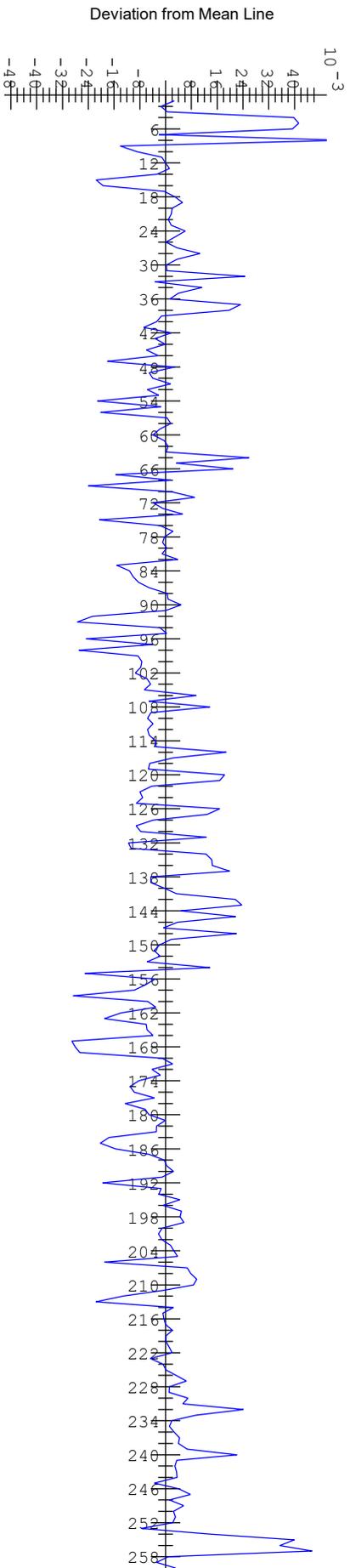
Dimensions in MM



HGVPU - Gap Calc. from Regression Line End Points

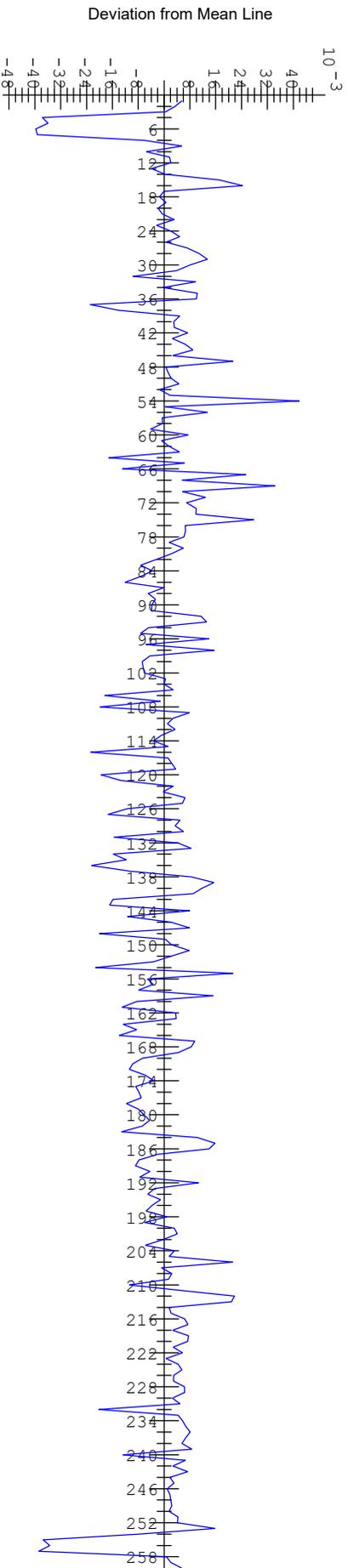
| | | | | | |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 8.000 | US Full : | 7.9997 | DS Full : | 7.9999 |
| Nom. Taper : | 0.000 | US Wall Half : | 4.0014 | DS Wall Half : | 4.0021 |
| | | US Aisle Half : | 4.0024 | DS Aisle Half : | 4.0026 |

| | |
|----------|---------------|
| S/N | : HXU_016 |
| Date | : 10-SEP-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



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HGVPU - Pole Tip Deviation from Mean Line

| | | | | | |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 8.000 | US Full : | 7.9997 | DS Full : | 7.9999 |
| Nom. Taper : | 0.000 | US Wall Half : | 4.0014 | DS Wall Half : | 4.0021 |
| | | US Aisle Half : | 4.0024 | DS Aisle Half : | 4.0026 |

| | |
|----------|---------------|
| S/N | : HXU_016 |
| Date | : 10-SEP-2020 |
| Data Set | : 0001 |
| Run | : FINAL |
| Cam Pos. | : B |