Offset of DM image at the lenslets as a function of field position

wht-naomi-91

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The two contour maps below show the horizontal and vertical shifts of the image of the DM at the lenslets as the pickoff is moved within the 2.9 arcmin field. The field shown in 2.9 arcmin sqare so the useable area is the inscribed circle. The maps were generated in Excel from Zemax data of the principle ray angle at the WFS pickoff as a function of field position. The Excel file is called DM_image_offset.xls and is also held on BSCW. There will be small differences due to the WFS optics and shifts due to the ADC are also not included.

Vertical pupil shift (microns)

- ■ 27.5-55
- ■ 0-27.5
- ■ -27.5-0
- □ -55--27.5

Vertical field position

Horizontal field position