(a) **(b)** 4:3 3:2 Final Reconstructed Initial Image Quality Structure LPIPS\ SSIM↑ **PSNR**↑ 29.32 0.8304 0.0933 CAJD 0.8337 29.26 SD 0.0948 1:1 3:2 4:3 4:3 0.8484 29.83 0.0814 **(c)** Degraded **PSFs** Reconstructed D=5m0.8398 29.69 0.0848 HFOV: 22° HFOV: 32° HFOV: 0° RMS: 0.0522 RMS: 0.0528 RMS: 0.0467 29.34 0.8352 0.0921 HFOV: 0° HFOV: 22° HFOV: 32° RMS: 0.0405 RMS: 0.0325 RMS: 0.0220 D=0.5m29.67 0.8424 0.0856 HFOV: 22° HFOV: 32° HFOV: 0° RMS: 0.0404 RMS: 0.0523 RMS: 0.0615 **D=5**m $0.8392 \quad 0.0883$ 29.53 HFOV: 22° HFOV: 32° HFOV: 0° RMS: 0.0430 RMS: 0.0812 RMS: 0.0673 QGSO D=1m0.8255 0.1004 28.85 HFOV: 22° HFOV: 0° HFOV: 32° RMS: 0.0456 RMS: 0.0529 RMS: 0.0301 D=0.5m 0.8338 0.0932 29.21 HFOV: 0° HFOV: 22° HFOV: 32° RMS: 0.0430 RMS: 0.0548 RMS: 0.0547 D=5m0.8321 0.0957 29.21 HFOV: 22° HFOV: 32° HFOV: 0° RMS: 0.0340 RMS: 0.0595 RMS: 0.0787 D=1m**OGSO** 0.8430 0.0879 29.50 HFOV: 0° HFOV: 22° HFOV: 32° RMS: 0.0331 RMS: 0.0417 RMS: 0.0482 D=0.5m28.84 0.8255 0.1021 HFOV: 22° HFOV: 0° HFOV: 32° RMS: 0.0685 RMS: 0.0590 RMS: 0.0410