

## Data for SQZT7 Beam profiling. July 15<sup>th</sup> 2025

Measured LPM (lower periscope mirror) to iris is 20.2cm

Starting with nominal ZM PSAMS settings

|   | Profiler to iris | A1 horizontal 13.5% | A2 vertical 13.5% | A1 horizontal D4sigma | A2 vertical D4sigma |
|---|------------------|---------------------|-------------------|-----------------------|---------------------|
| 1 | 5.75cm           | 1485.0              | 1602.4            | 1548.8                | 1637.2              |
| 2 | 45cm             | 1531.0              | 1687.3            | 1984.9                | 2266.5              |
| 3 | 75.5cm           | 1663.1              | 1834.7            | 2068.6                | 1901.44             |
| 4 | 110cm            | 1814.8              | 2035.7            | 2308.3                | 2116.6              |
| 5 | 132.5cm          | 1963.0              | 2169.2            | 2709.6                | 2281.4              |

Changed ZM PSAMS settings now at 0V 0V

|   | Profiler to iris | A1 horizontal 13.5% | A2 vertical 13.5% | A1 horizontal D4sigma | A2 vertical D4sigma |
|---|------------------|---------------------|-------------------|-----------------------|---------------------|
| 1 | 132.5cm          | 3523.1              | 3479.9            | 3916.4                | 3548.2              |
| 2 | 99.4cm           | 3100.9              | 3063.5            | 3317.3                | 3221.9              |
| 3 | 76.7cm           | 2806.5              | 2775.4            | 3022.4                | 2883.3              |
| 4 | 45.6cm           | 2398.5              | 2417.34           | 2750.5                | 2616.8              |
| 5 | 6cm              | 1920.6              | 1996.6            | 1954.4                | 2023.0              |