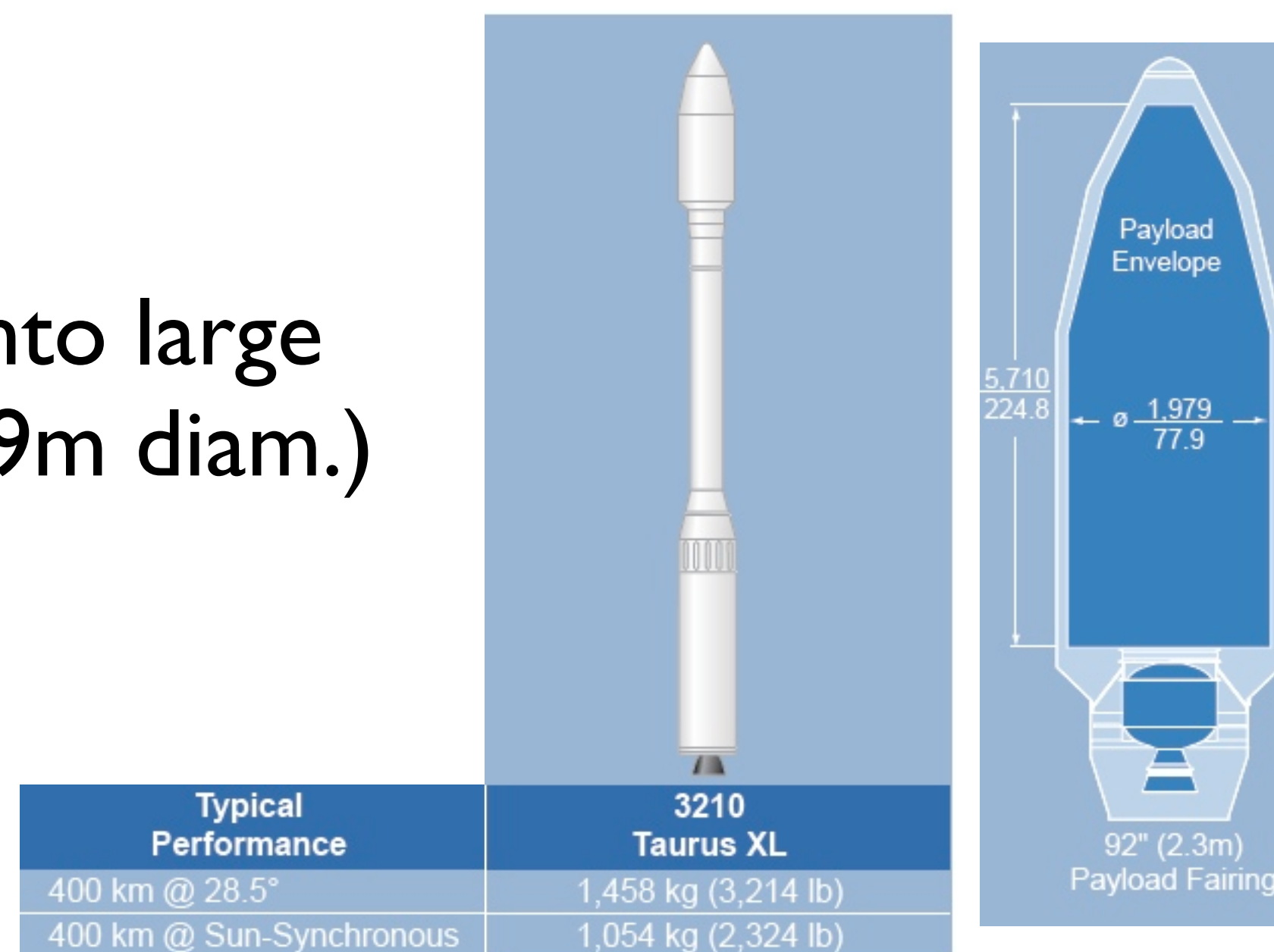


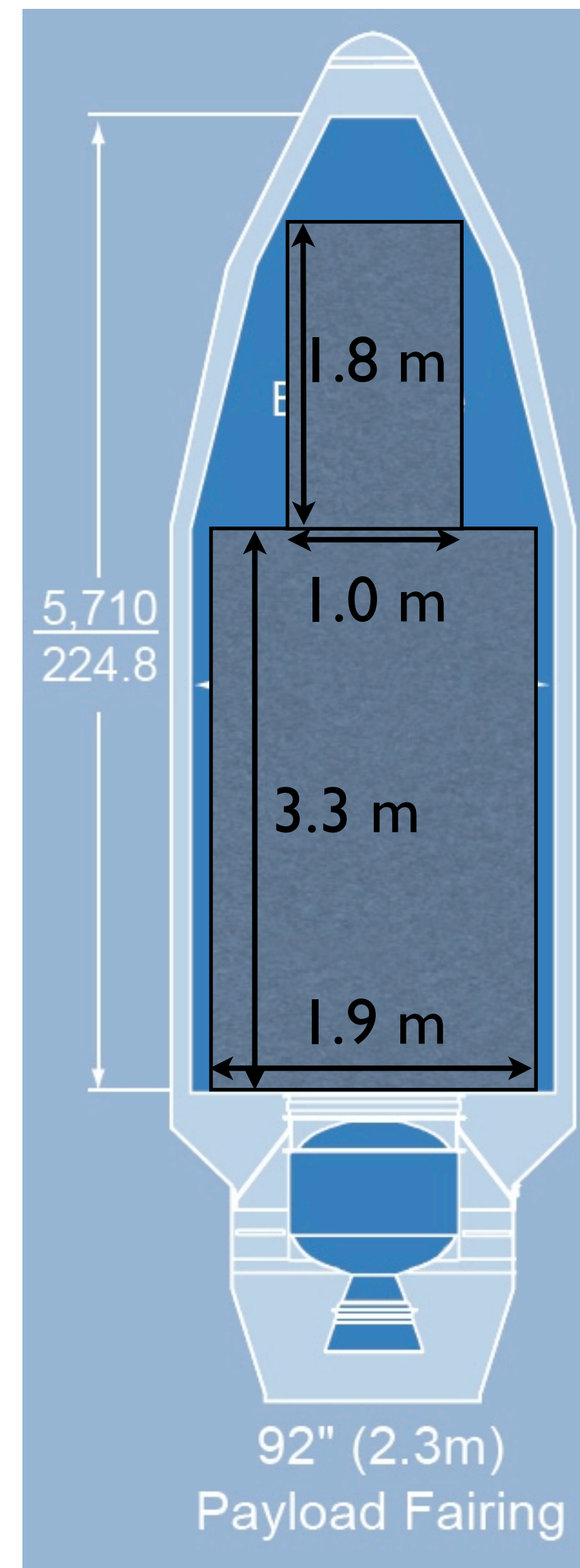
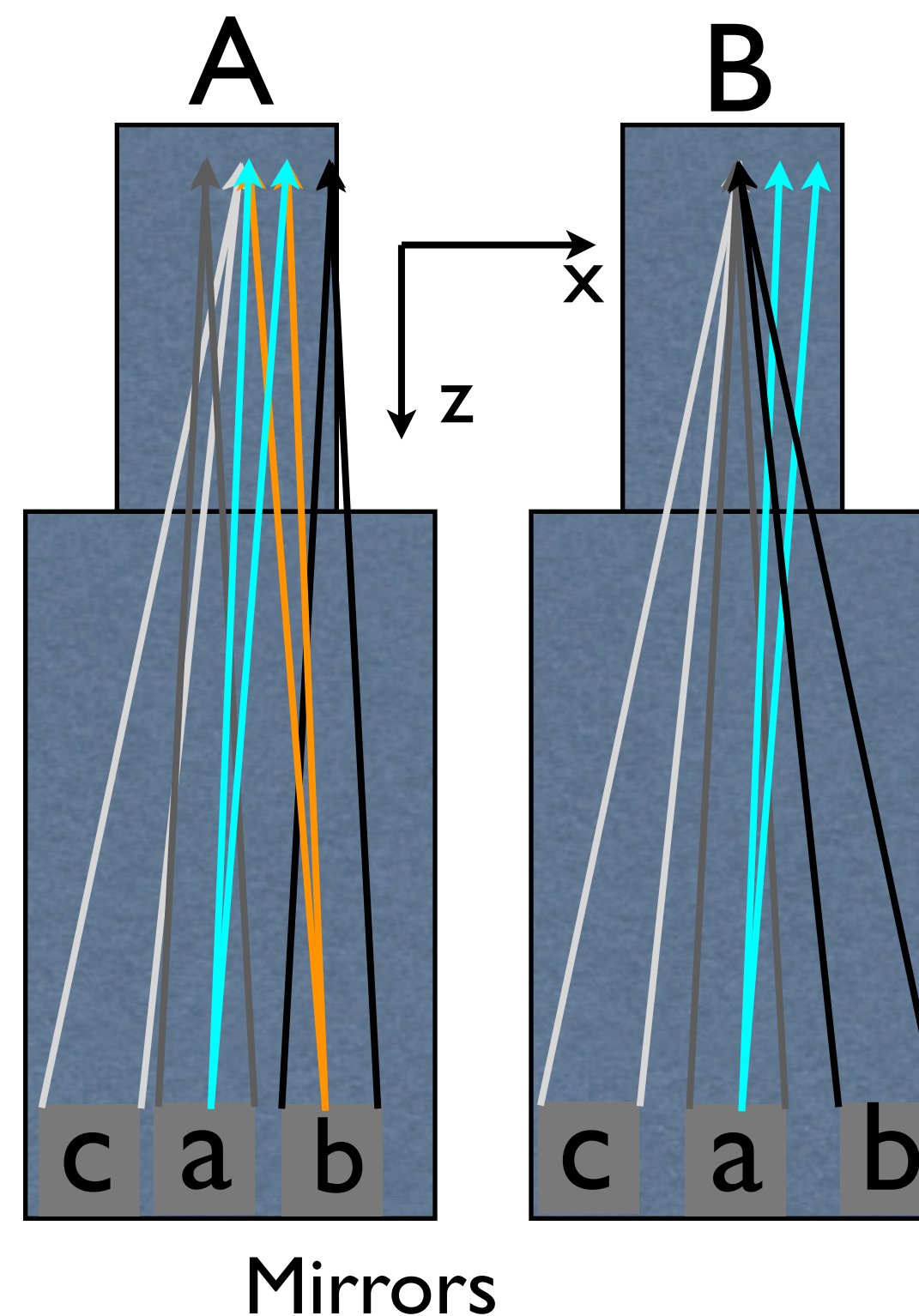
Astrophysics Experiment with Grating and Imaging Spectroscopy (AEGIS) Layouts

Constraint: fit into large
Taurus fairing (1.9m diam.)



Taurus Fairing

- Zeroth orders are black (b), dark gray (a), light gray (c)
- Case A:
 - +1 of a (cyan) and -1 of b (orange) disperse along x
 - Mirrors a and b share readout detectors
 - Mirror c disperses out of plane of image (+y)
- Case B:
 - +1 of mirror a (cyan) disperses along x
 - All mirror 0th orders align (approximately)
 - Mirrors b and c share readout detectors
 - Mirrors b and c disperses out of plane of image (+y)



AEGIS

Six 30° Sectors

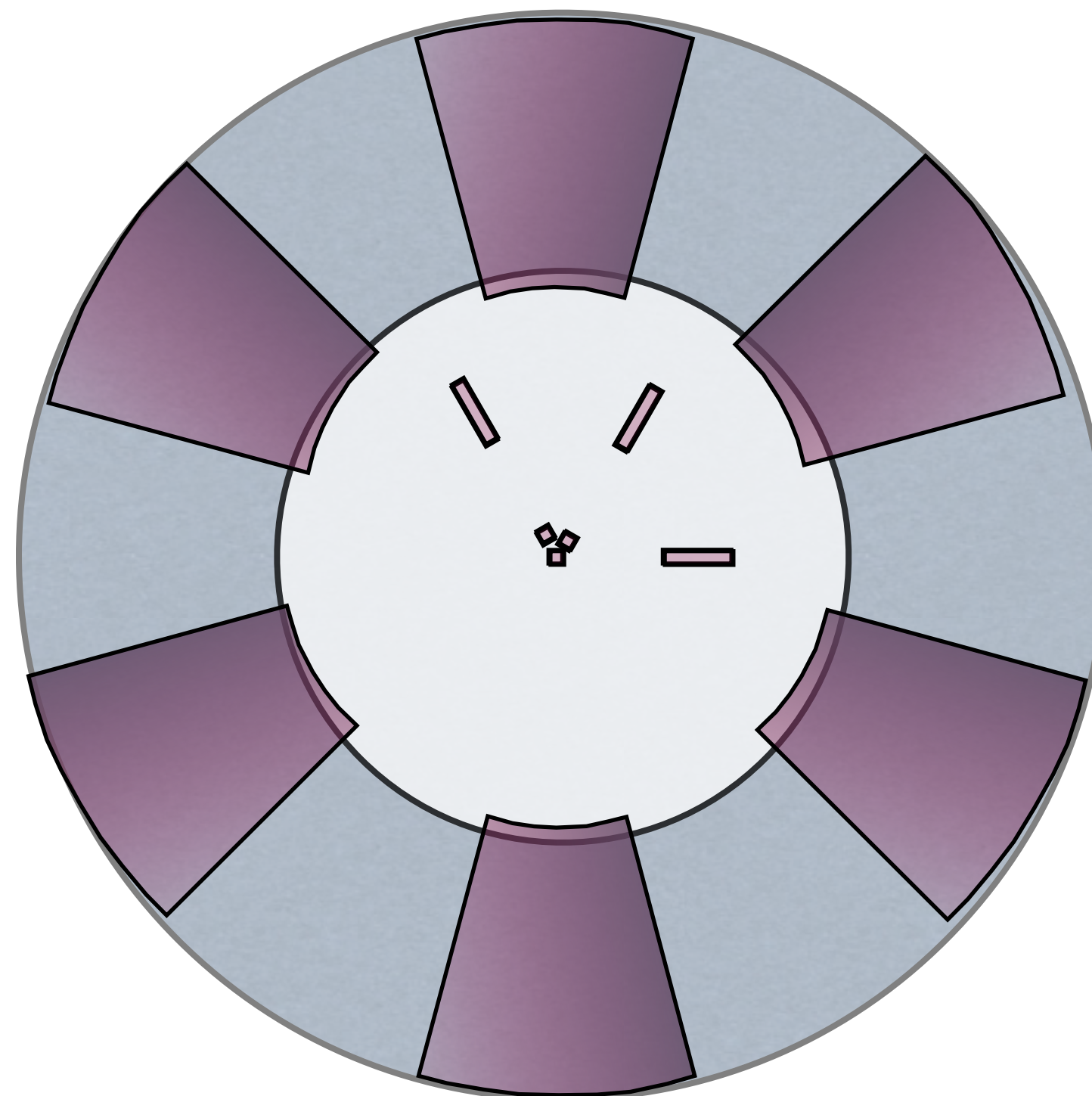
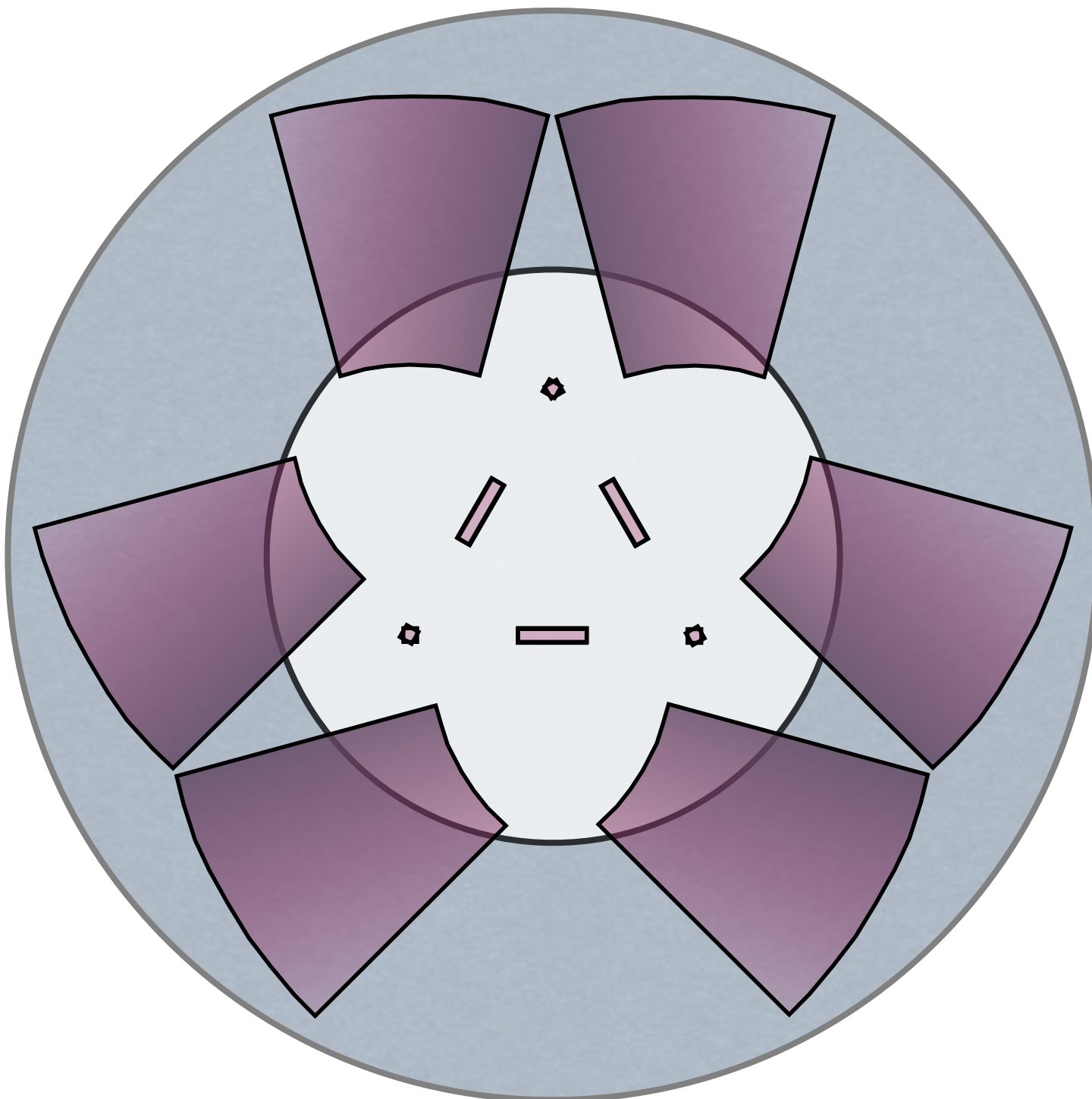
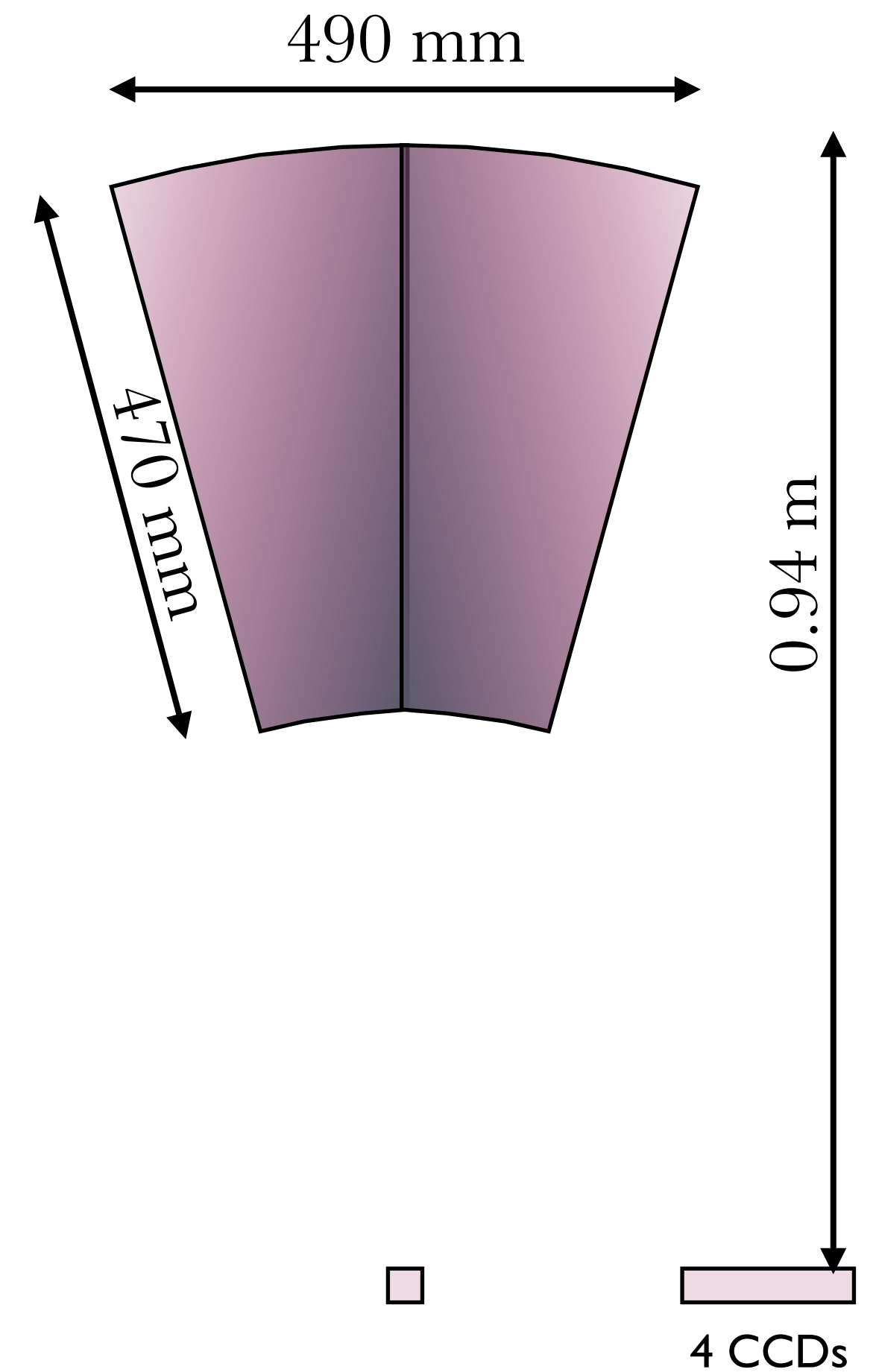
Entrance Aperture: 1.04 m²

max graze angle: 3°

Focal Length: 4.4 m

Dispersion angle: 3.4°

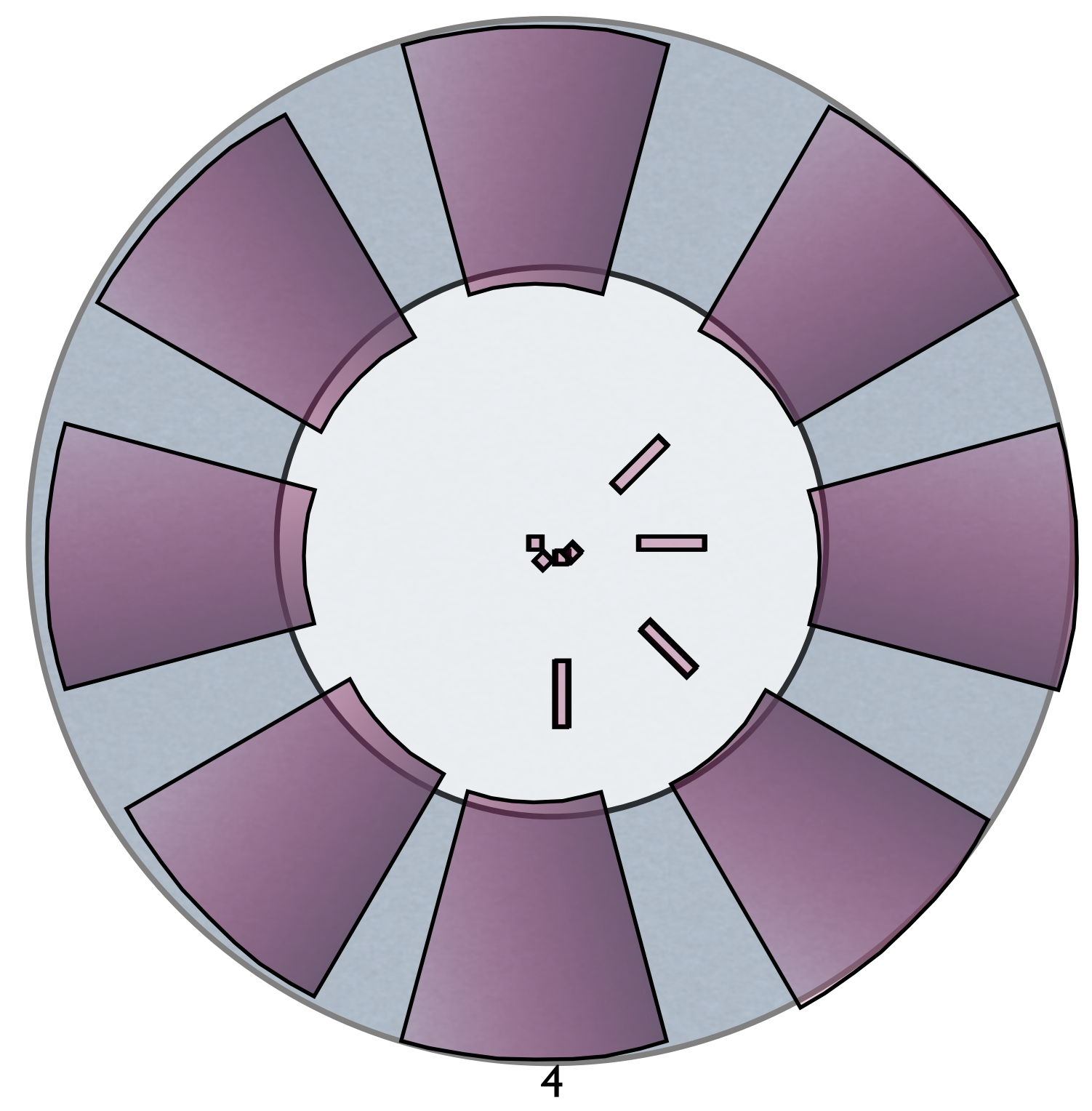
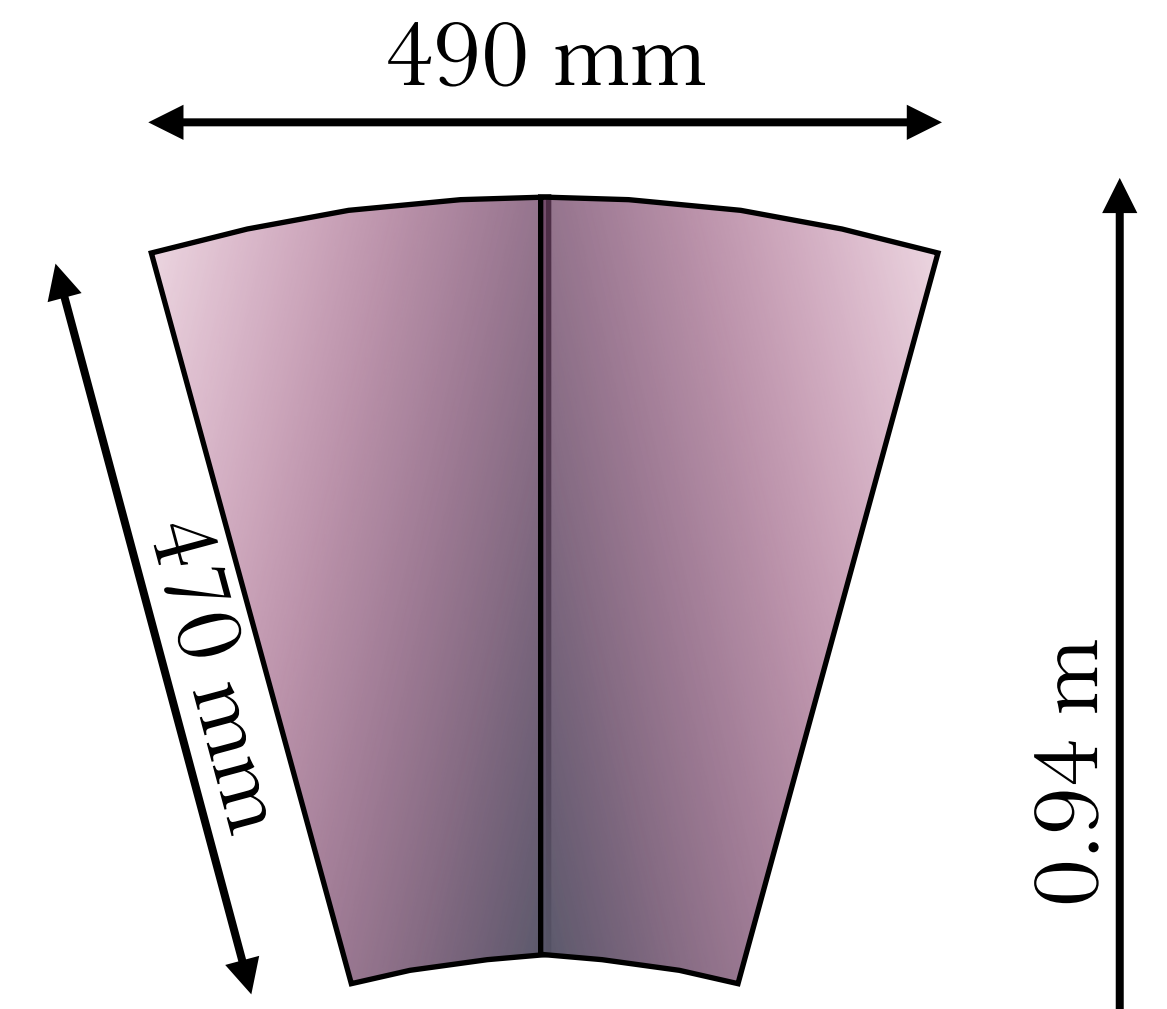
Number CCDs: 15





Eight 30° Sectors

Entrance Aperture: 1.39 m²
Number CCDs: 20





Eleven 30° Sectors

Entrance Aperture: 1.90 m²
Number CCDs: 45+

