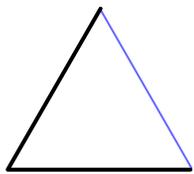
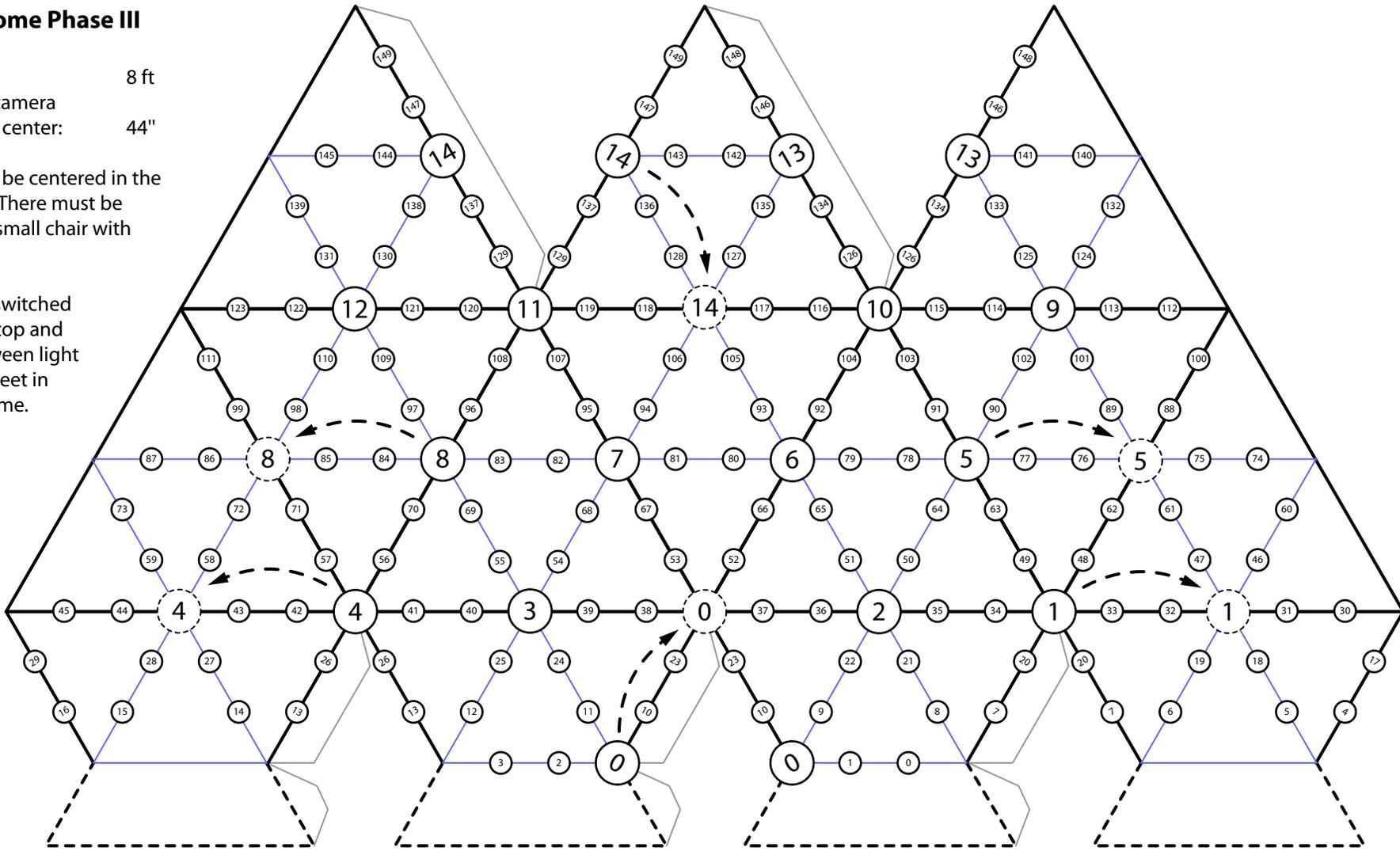


# Face Scanner Dome Phase III

Outer diameter: 8 ft  
 Minimum distance camera back-face to dome center: 44"

A person's head will be centered in the center of the dome. There must be enough space for a small chair with a head rest.

Two laser pointers (switched manually) from the top and from the front (between light source 80 and 81) meet in the center of the dome.



- ⑤ Camera
- ③ Light Source

Thick triangle edges:  $0.54653306 \times$  desired dome radius  
 Thin triangle edges:  $0.61803399 \times$  desired dome radius  
 Base: The base of the dome (dashed) is not specified.

Flaps denote connectivity. Note that edges and light source/camera positions may fall together accordingly. This plan can be cut out and glued together (fold at thick edges). However, it will only build an icosahedral approximation of the dome.

Cameras 0, 1, 4, 5, 8 and 14 can optionally be placed at the nodes denoted by arrows. All cameras are attached with quick release clamps. They are mounted in portrait orientation and point to the center of the dome (deviation between the image of dome center from the center of the camera image below  $\pm 16$  pixels with a 25mm lens).

The light sources are equipped with diffusers. All light sources are fixed and adjusted, so that the maximum intensity of each light cone meets the center of the dome.