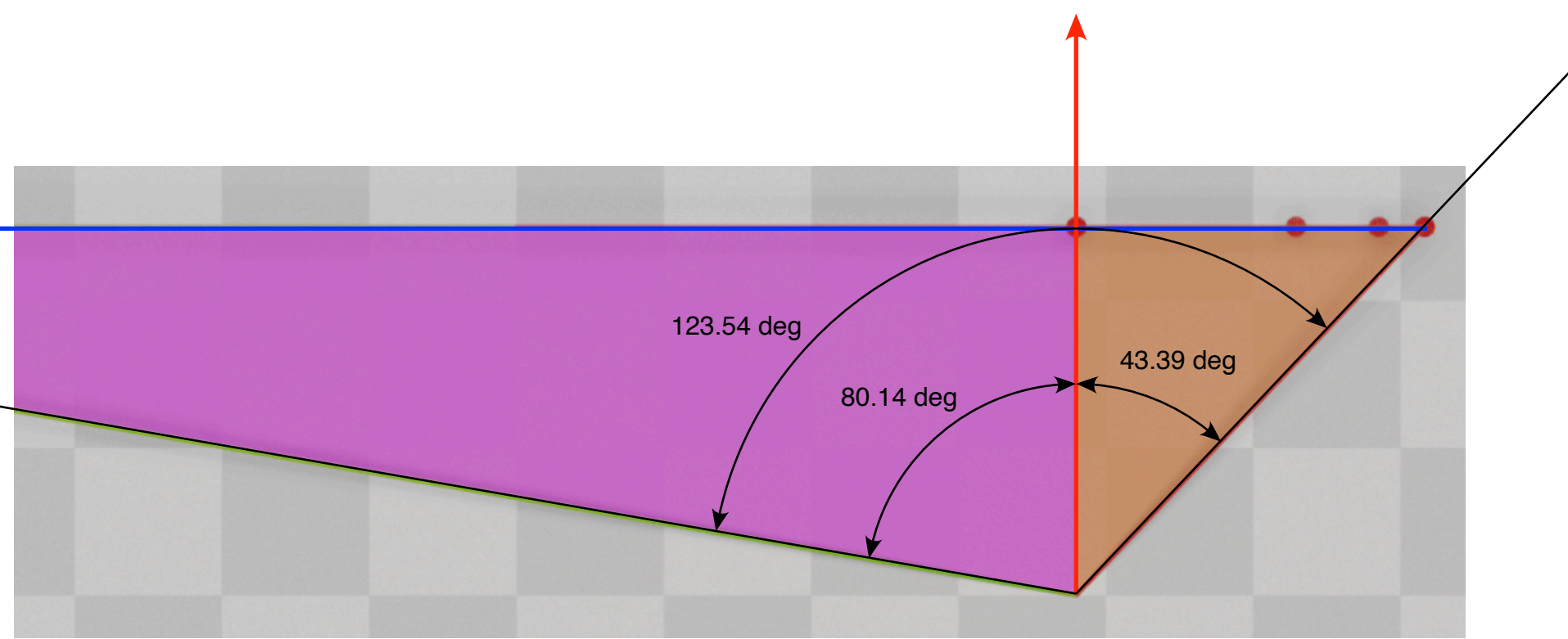
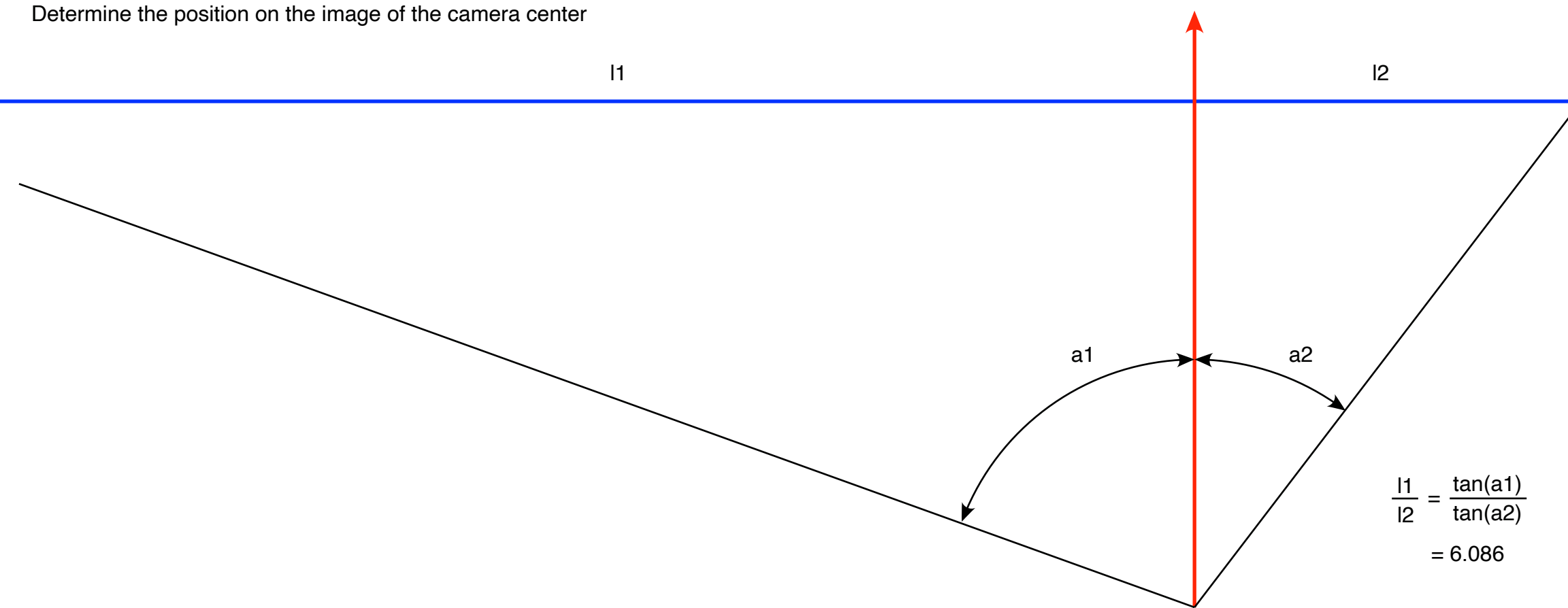


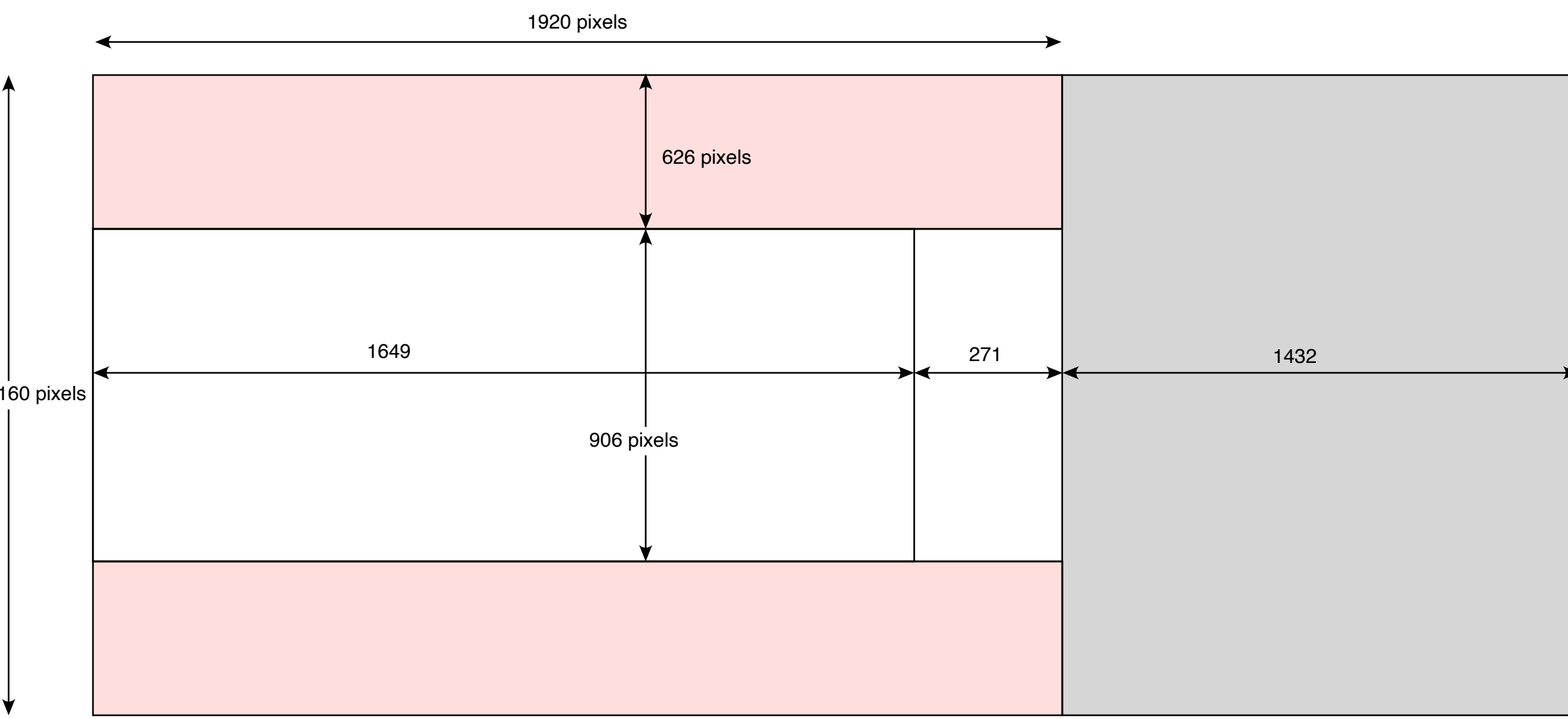
## Geometry



Determine the position on the image of the camera center



Crop and pad to make symmetric



New FOV of padded symmetric view is  $2 \times 80.14 = 160.28$  deg

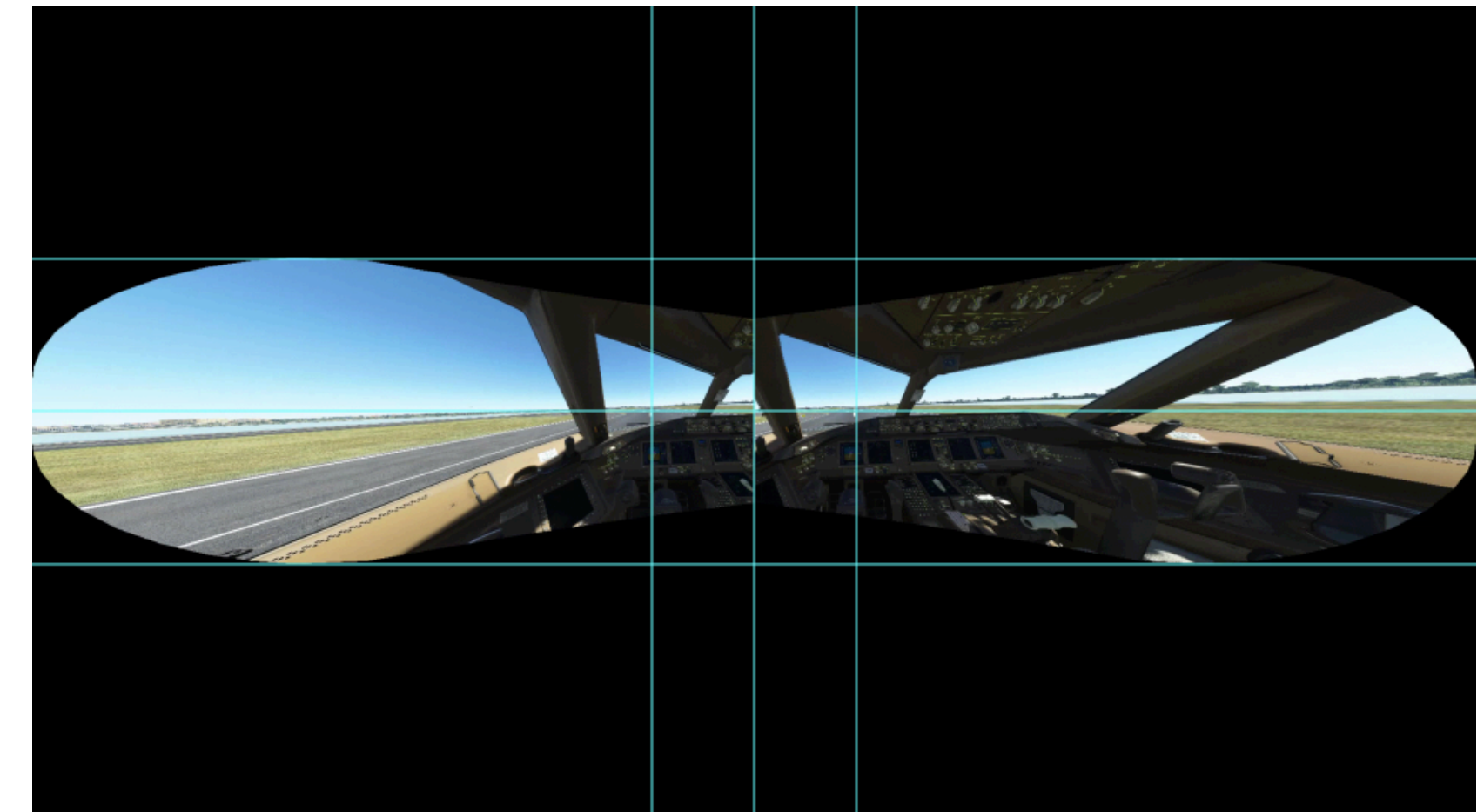
$$vfov = 2 \operatorname{atan}\left[\frac{\text{height} \tan(\text{hfov}/2)}{\text{width}}\right]$$

so

$$vfov \text{ should be } 2 \operatorname{atan}\left(\frac{906 \tan(160.28/2)}{3298}\right) = 115 \text{ degrees}$$

Note this is different to the quoted value

## Pipeline



Left

Right

Crop left and right view



Pad to symmetric frustum



Map to half equirectangular including yaw rotation.



Combine to top and bottom frame