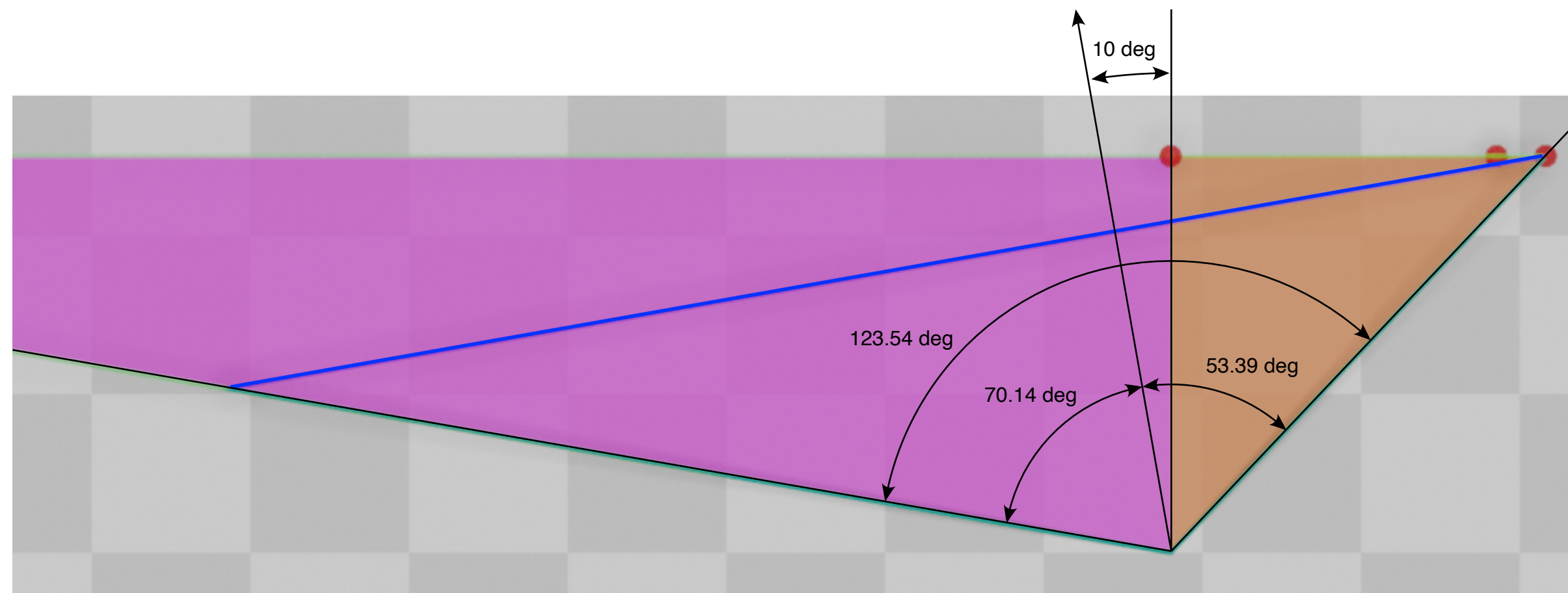


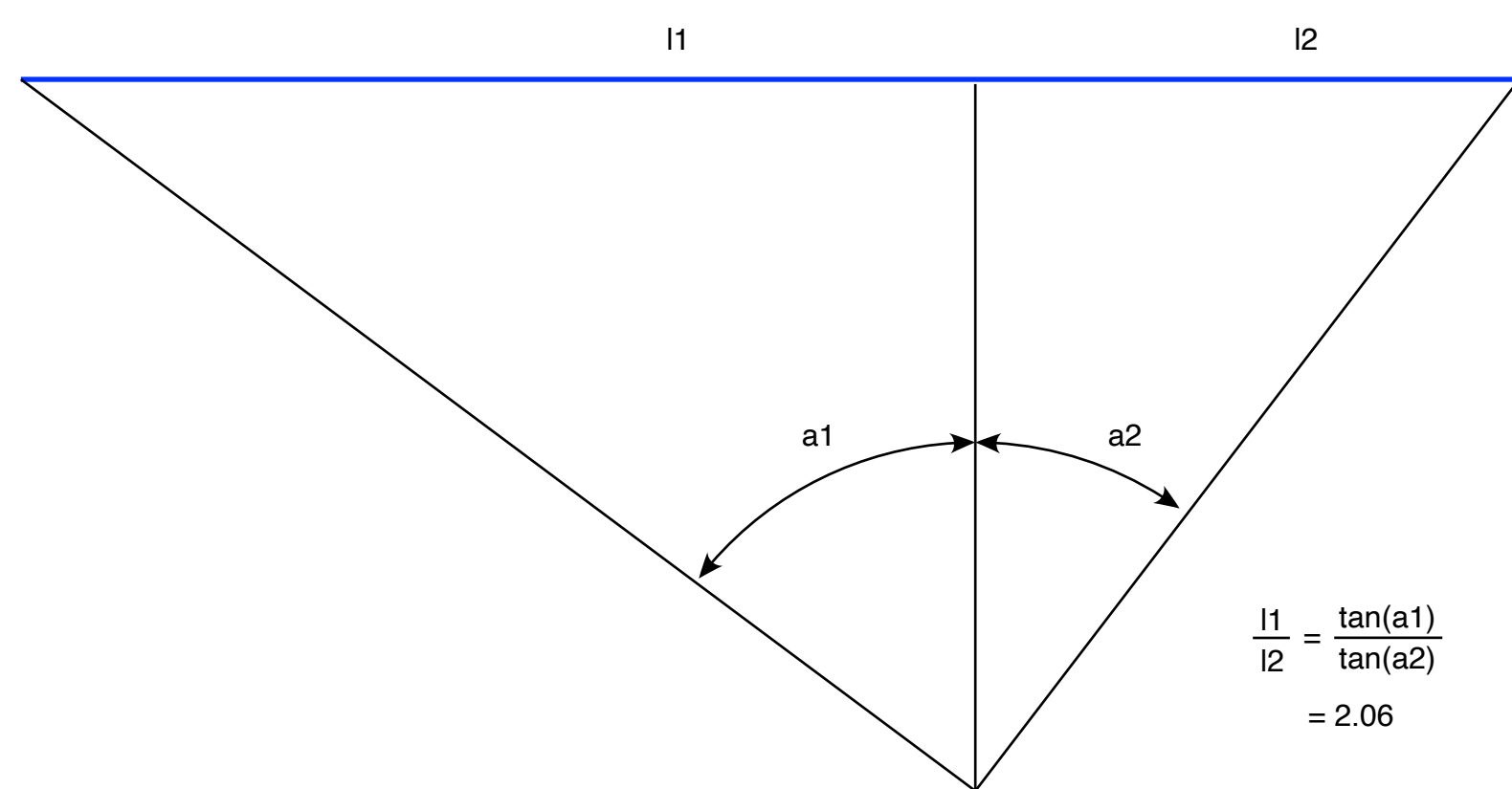
Geometry



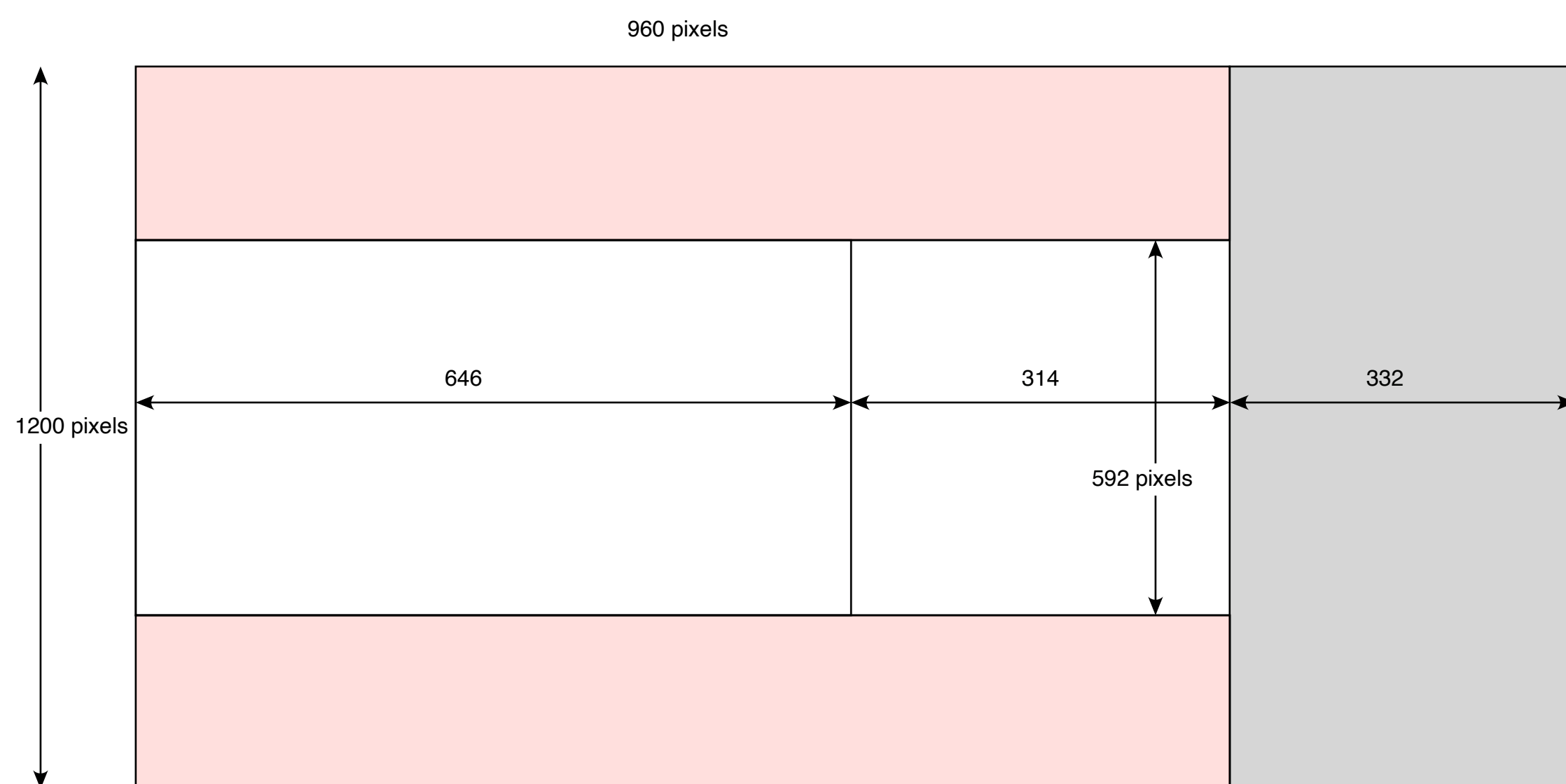
Pipeline



Determine the position on the image of the camera center



Crop and pad to make symmetric



New FOV of padded symmetric view is $2 \times 70.14 = 140.28$ deg

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

so

$$vfov \text{ should be } 2 \operatorname{atan}\left(\frac{592 \tan(140.28/2)}{1292}\right) = 103.5 \text{ degrees}$$

Crop left and right view



Pad to symmetric frustum



Map to half equirectangular including yaw rotation.



Combine to top and bottom frame

