This is an errata to the paper "Flat Refractive Geometry", CVPR’08. We fix a mistake in Sec. 4, Eq. (18) and Fig. (5) regarding the caustics surface.

Caustics

The caustic coordinates (Eq. 18 in the original paper) are (fix for $R_{\text{caustic}}$): 

\[ R_{\text{caustic}} = d \left( 1 - \frac{1}{n^2} \right) \left( \frac{r_i}{f} \right)^3 \]

\[ Z_{\text{caustic}} = -dn \left[ 1 + \left( 1 - \frac{1}{n^2} \right) \left( \frac{r_i}{f} \right)^2 \right]^{1.5}. \]

Fig. 1 replaces Fig. 5 in the original paper and depicts the caustic in a field of view (FOV) for which $\max(\theta_{\text{air}}) = 50^\circ$. 

Figure 1. Caustic of a system having a flat interface with water. The camera has an FOV of $\max(\theta_{\text{air}}) = 50^\circ$. The caustic has radial symmetry which is violated towards the boundaries of the FOV due to the rectangular shape of the sensor. The extent of the caustics is $O(d)$, and can often reach centimeters or decimeters.