$$\mathcal{R} = \frac{\sigma_{\text{upper BLUE}}}{\sigma_{\text{upper BLUE}} + \sigma_{\text{lower BLUE}}}$$

$$\sigma_{upper} = 2 \cdot \mathcal{R} \cdot \sigma_{\text{center BLUE}}$$

$$\sigma_{lower} = 2 \cdot (1 - \mathcal{R}) \cdot \sigma_{\text{center BLUE}}$$