

$$spot[i] = \begin{cases} (\cos \alpha)^{\log \frac{1}{2 \cdot \log(\cos(\text{beamWidth}))}} & \text{if (SpotLight and } \alpha \leq \text{CutOffAngle)} \\ 0 & \text{else if (SpotLight and } \alpha > \text{CutOffAngle)} \\ 1 & \text{otherwise} \end{cases}$$