$$E_r = -\frac{Qk^2}{4\pi\varepsilon_0 r^2} \left( \left( 1 - \frac{3}{k^2 r^2} \right) \cos\left(\omega t - kr\right) + \frac{3}{kr} \sin\left(\omega t - kr\right) \right) \left( 3\cos^2\left(\theta\right) - 1 \right) \tag{3}$$

$$E_{\theta} = -\frac{Qk^2}{4\pi\varepsilon_0 r^2} \left( \left( 3 - \frac{6}{k^2 r^2} \right) \cos\left(\omega t - kr\right) - \left( kr - \frac{6}{kr} \right) \sin\left(\omega t - kr\right) \right) \sin\left(\theta\right) \cos\left(\theta\right) \tag{4}$$