$$(5) \qquad \mathbf{I}(\varphi) \propto \mathbf{B}(\varphi)^2 = A_0^2 b^2 \left\{ \frac{\lambda}{\pi b \sin \varphi} \right\}^2 \cdot \sin^2 \left\{ \frac{\pi b \sin \varphi}{\lambda} \right\}$$