For measurements taken at a deck angle θ_0 and $\theta_0 + 45°$, polarization signal generated by a uniform rel gain error is simply $Q = U = \varepsilon T$, where Q and U are defined along θ_0. The TB correlation is therefore given by

$$T(l)B(l) = T(l)[-Q(l)\sin 2\psi + U(l)\cos 2\psi] = -\varepsilon T^2(l)(-\sin 2\psi + \cos 2\psi)$$

.

The function in the parentheses :