Co-Polar Component:

\[ G = G_{\text{max}} - 12 \left( \frac{\theta}{\theta_0} \right)^2 \quad \text{for} \quad 0 \leq \left( \frac{\theta}{\theta_0} \right) \leq 0.5 \]

where \( \theta_0 = 0.26^\circ \)

Sidelobe gain relative to the main lobe gain is -3, -10, -15, -20, -30, -40, -50, -60 dB for off-axis angles of 0.13, 0.25, 0.40, 0.63, 1.58, 4.0, 10.0 and 20.0 degrees, greater than or equal to 48 degrees, respectively.