

**Name:** APEUAE250V01**Type:** Earth station, Receiving**Description:**

Earth station antenna pattern submitted by UAE for networks of MADAR series: TYPICAL-KA-30.5, downlink. Maximum antenna gain is fixed to 30.5 dB.

**Required Input Parameters:**

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**Validation Warnings/Errors:** None**Co-Polar Component:**

$$G = 30.5 - 0.17922 \varphi^2 \quad \text{for } 0^\circ \leq \varphi < 6.3^\circ$$

$$G = 23.3867 \quad \text{for } 6.3^\circ \leq \varphi < 9^\circ$$

$$G = 47.242808713064 - 25 \log \varphi \quad \text{for } 9^\circ \leq \varphi < 50^\circ$$

$$G = -10 \quad \text{for } 50^\circ \leq \varphi \leq 180^\circ$$