Name: APSREC407V01

Type: Space station, Receiving and Transmitting

Region(s): 123

**Required Input Parameters:** gain,maj\_axis,min\_axis,orient

Validation Warnings/Errors: None

**Pattern Information:** 

Single feed circular beams.

Ls = -10 dB for use in article 22, table 22-2.

**Co-Polar Component:** 

$$G = G_{max} - 12 (\phi/\phi_0)^2$$

for 
$$0 \le (\phi/\phi_0) \le a/2$$

$$G = G_{max} + L_s$$

for 
$$a/2 < (\phi/\phi_0) \le b/2$$

$$G = G_{max} + L_s + 20 - 25 \log (2\phi/\phi_0)$$

for b/2 < 
$$(\phi/\phi_0)$$

where:

$$L_s = -10 \text{ dB}$$

$$a = 1.83$$

$$b = 6.32$$

## **Description:**

Recommendation ITU-R S.672-4 space station antenna pattern for use as a designe objective in the FSS employing geostationary satellites. For Ls = -10 dB.