Name: APELUX228V01
Type: Earth station, Receiving and Transmitting

Description:
Earth station antenna pattern submitted by LUX for earth station type TER-M(L).

Required Input Parameters:
gain

Validation Warnings/Errors:

<table>
<thead>
<tr>
<th>Type</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Error</td>
<td>Gmax () is less than G(Phi1) (). Gmax is too low.</td>
</tr>
</tbody>
</table>

Co-Polar Component:

\[
G = G_{\text{max}} \quad \text{for } 0^\circ \leq \phi < \phi_1 \\
G = \text{Max}(\text{CoefA} - \text{CoefB} \times \log \phi, G_{\text{min}}) \quad \text{for } \phi_1 \leq \phi \leq 180^\circ
\]

where:
\[
\phi_1 = 25^\circ \\
\text{CoefA} = 44 \\
\text{CoefB} = 26 \\
G_{\text{min}} = -5
\]