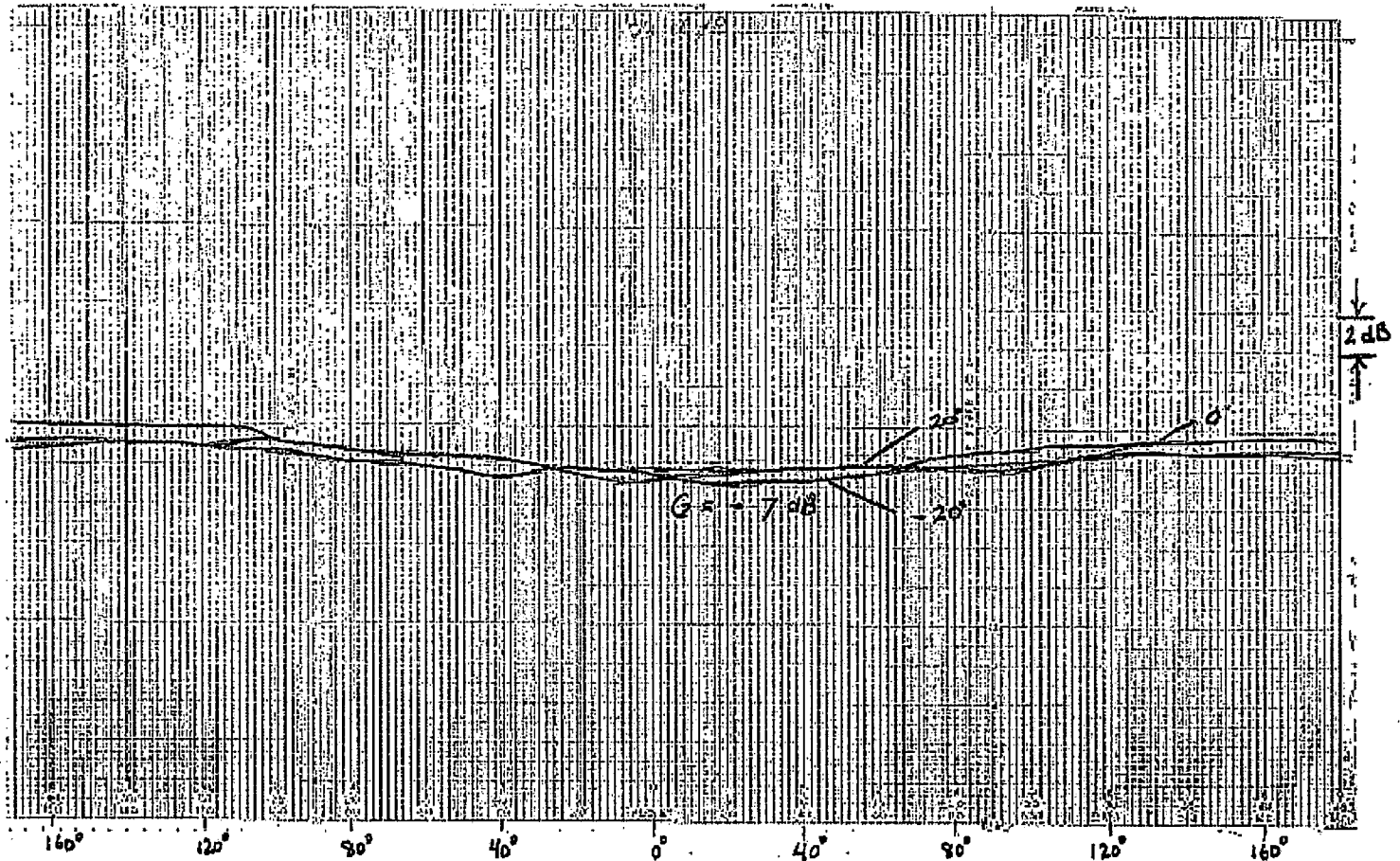


**EXHIBIT 2R: Back-Up Command Receive Beam**  
**(Bicone Antenna)**  
**(Schedule S Beam ID: CMDB)**

Polarization: Horizontal  
Peak Antenna Gain: 2.2 dBi  
Peak G/T: -30.8 dB/K  
Command Threshold @ Peak G/T: -91.8 dBW/m<sup>2</sup>

(a) Azimuth Cut Antenna Gain Pattern



Notes:

- 1) Gain variation in azimuth shown for elevation angles of 0° and ±20°.
- 2) The x-axis represents the azimuth angle and spans from -180° to +180°. Each major axis division line represents 20° of azimuth.
- 3) The y-axis represents the antenna gain. Each major axis division line represents 2 dB of gain.

**EXHIBIT 2R: Back-Up Command Receive Beam (continued)**

**(Bicone Antenna)**

**(Schedule S Beam ID: CMDB)**

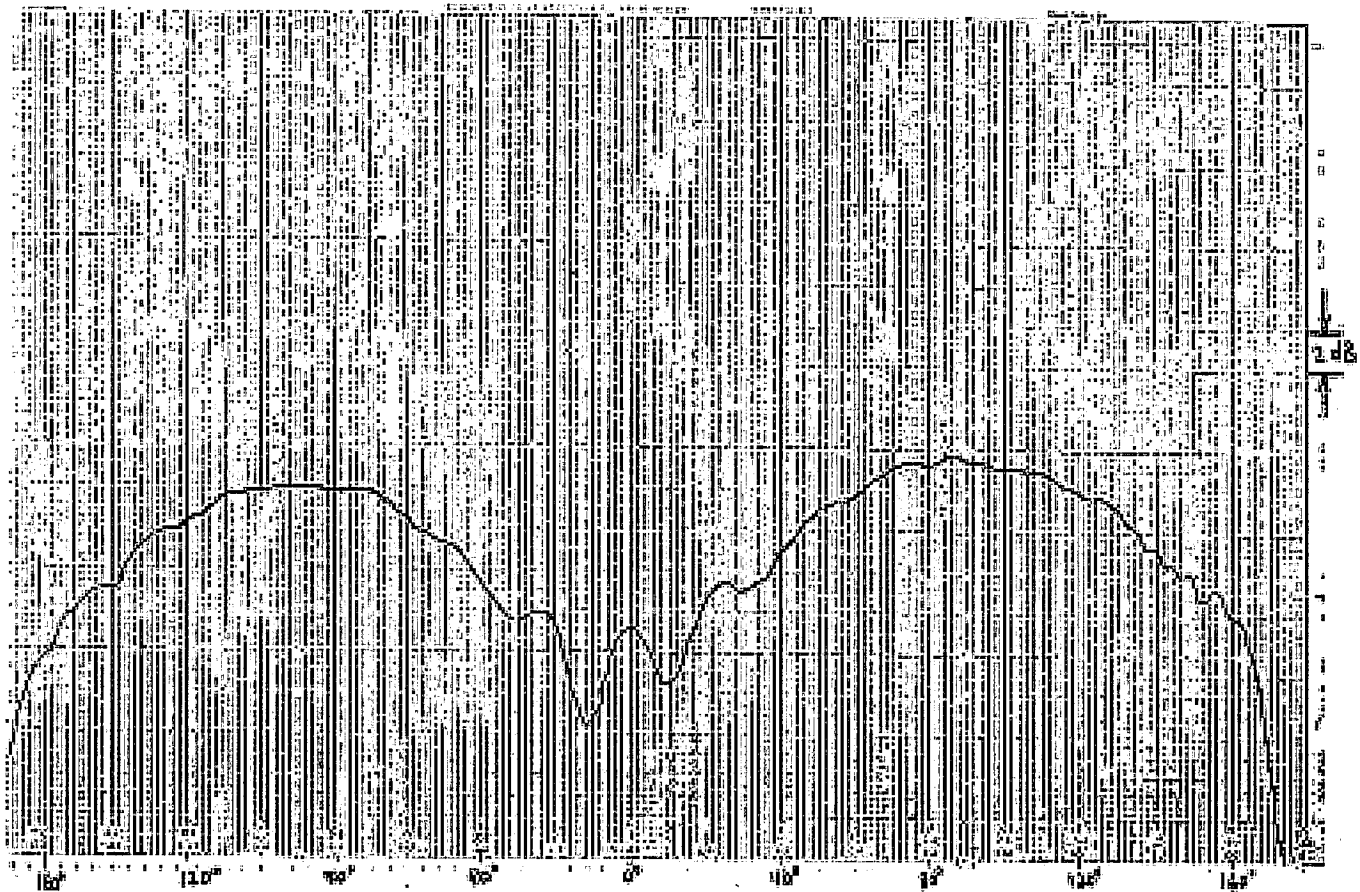
Polarization: Horizontal

Peak Antenna Gain: 2.2 dBi

Peak G/T: -30.8 dB/K

Command Threshold @ Peak G/T: -91.8 dBW/m<sup>2</sup>

(b) Elevation Cut Antenna Gain Pattern



Notes:

- 1) Gain variation in elevation shown for the azimuth angle of 0°.
- 2) The x-axis represents the elevation angle and spans from -180° to +180°. Each major axis division line represents 20° of elevation.
- 3) The y-axis represents the antenna gain. Each major axis division line represents 2 dB of gain.