

The following antennas will be deployed in the proposed system:

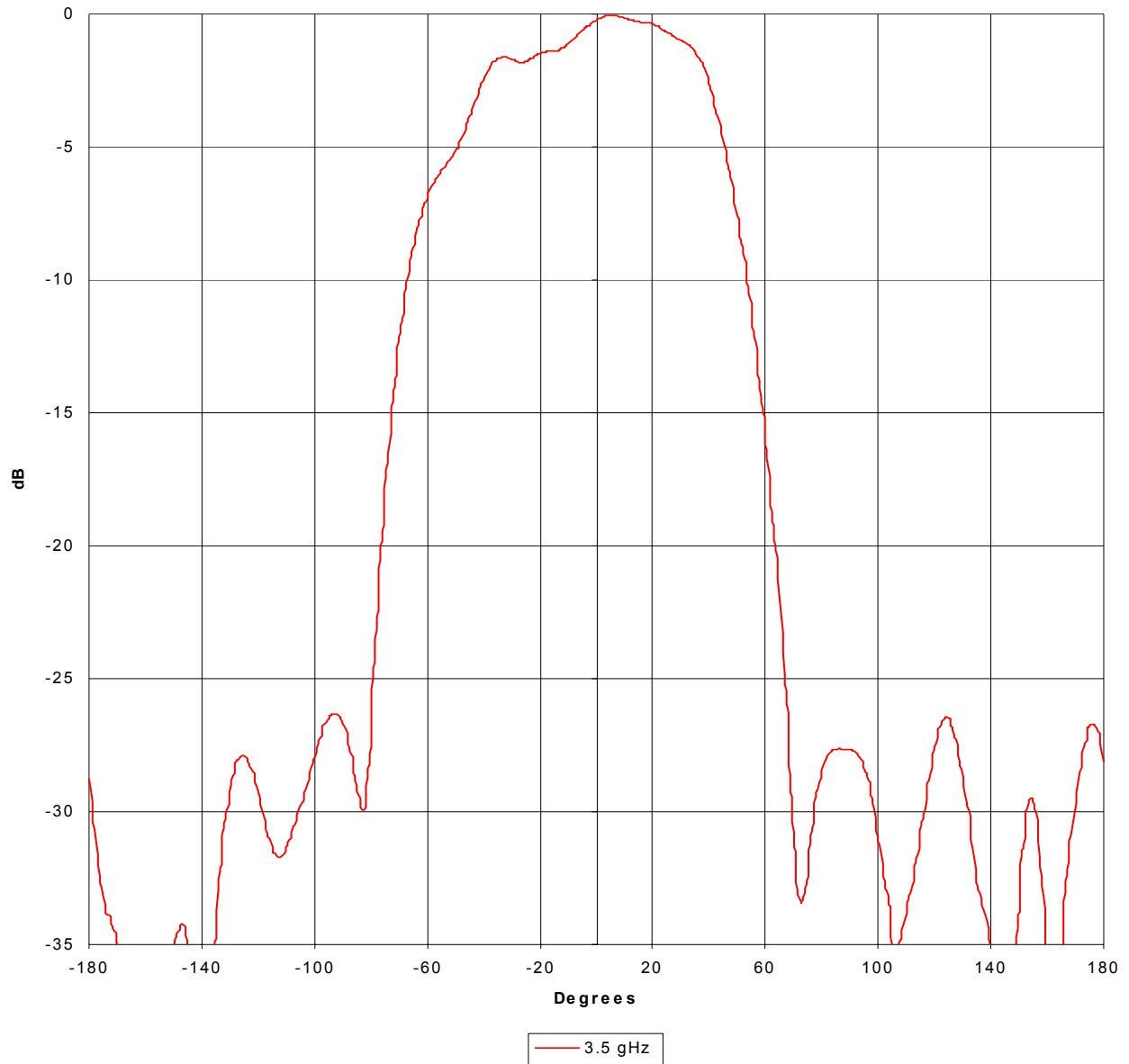
Base Station: Aperto 90° (90° beam width) and Aperto 60° (60° beam width): The base station will utilize a sectorized antenna system using up to six sectors. The specific azimuths, beam tilts and polarities for each sector will be determined and adjusted as part of the system tests.

Remote/CPE: Aperto PacketWave 100 Series: This antenna has a horizontal beam width and elevation beam width of approximately 20°.

All antennas will be mounted on or within existing buildings.

Radiation pattern information provided by the manufacturer for these antennas is provided on the following pages.

PWA3500-90 Horizontal Azimuth



**Base Station Antenna Information**

**Aperto 90°: Elevation Pattern, Horizontal Polarity**

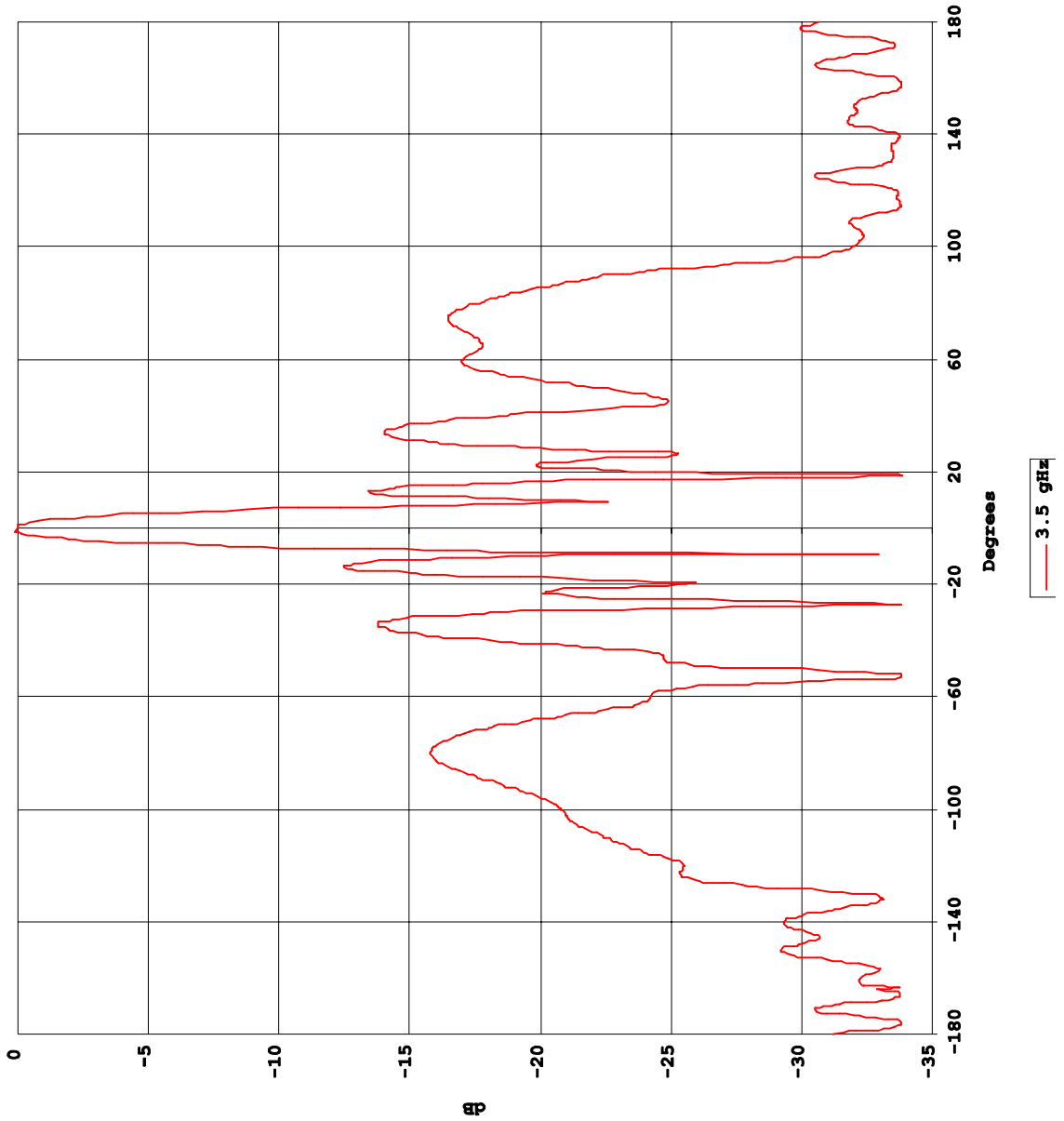
Data provided by the manufacturer

**Exhibit 2**

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**FWA3500-90 Horizontal elevation**

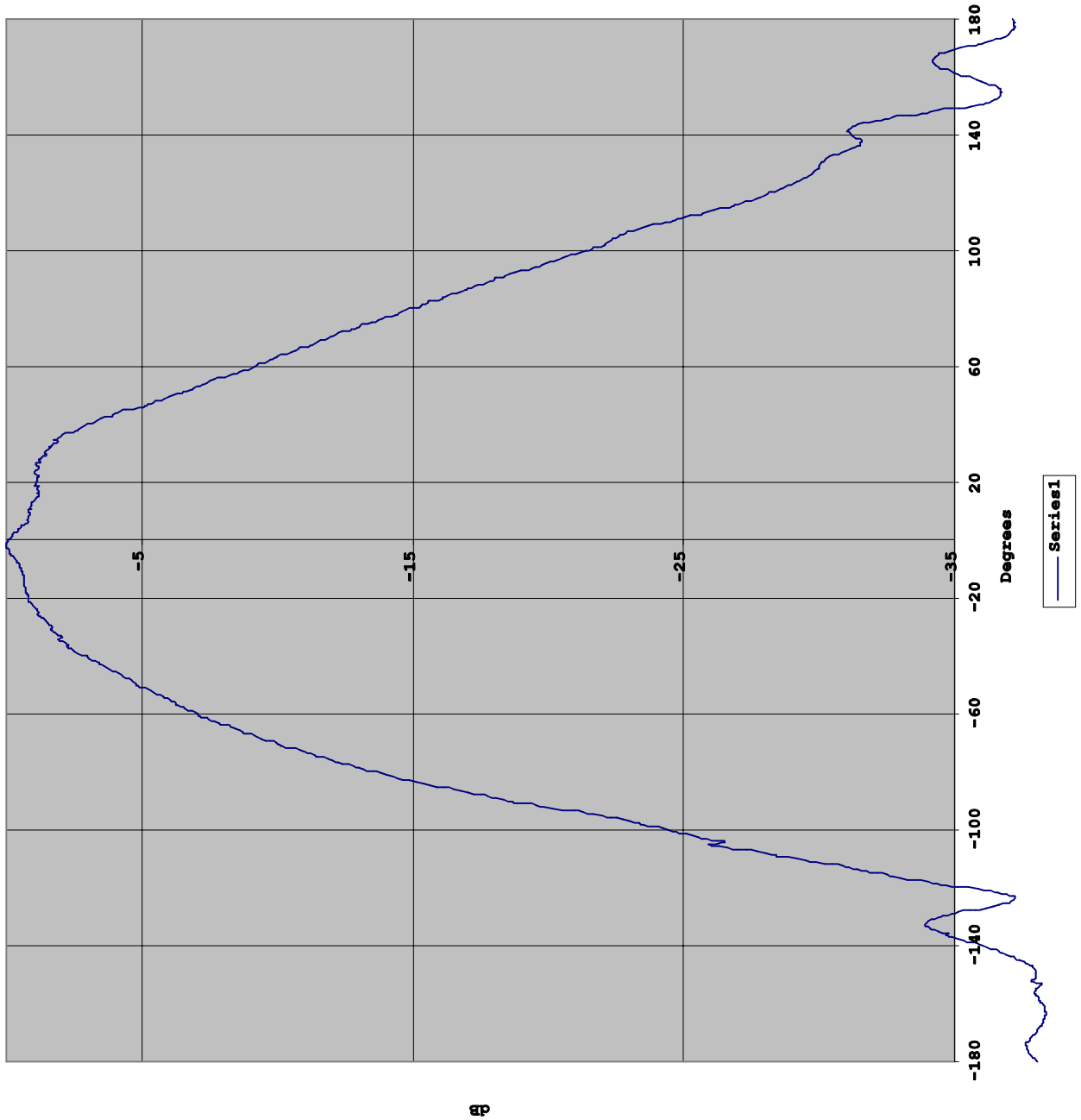


**Base Station Antenna Information**  
Aperto 90°: Horizontal Pattern, Vertical Polarity  
Data provided by the manufacturer

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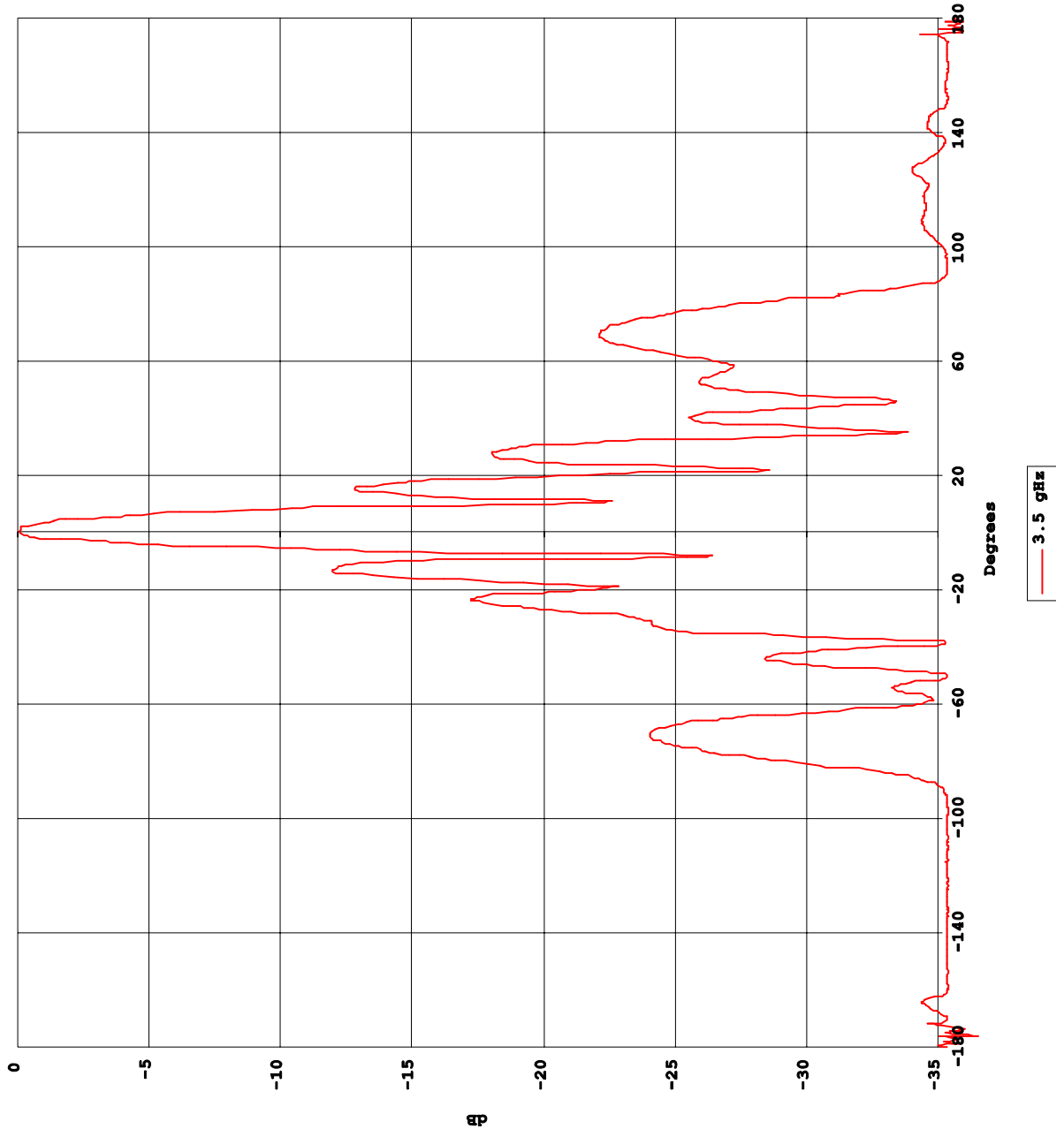


PacketWave PWA3500-90 Vertical Azimuth

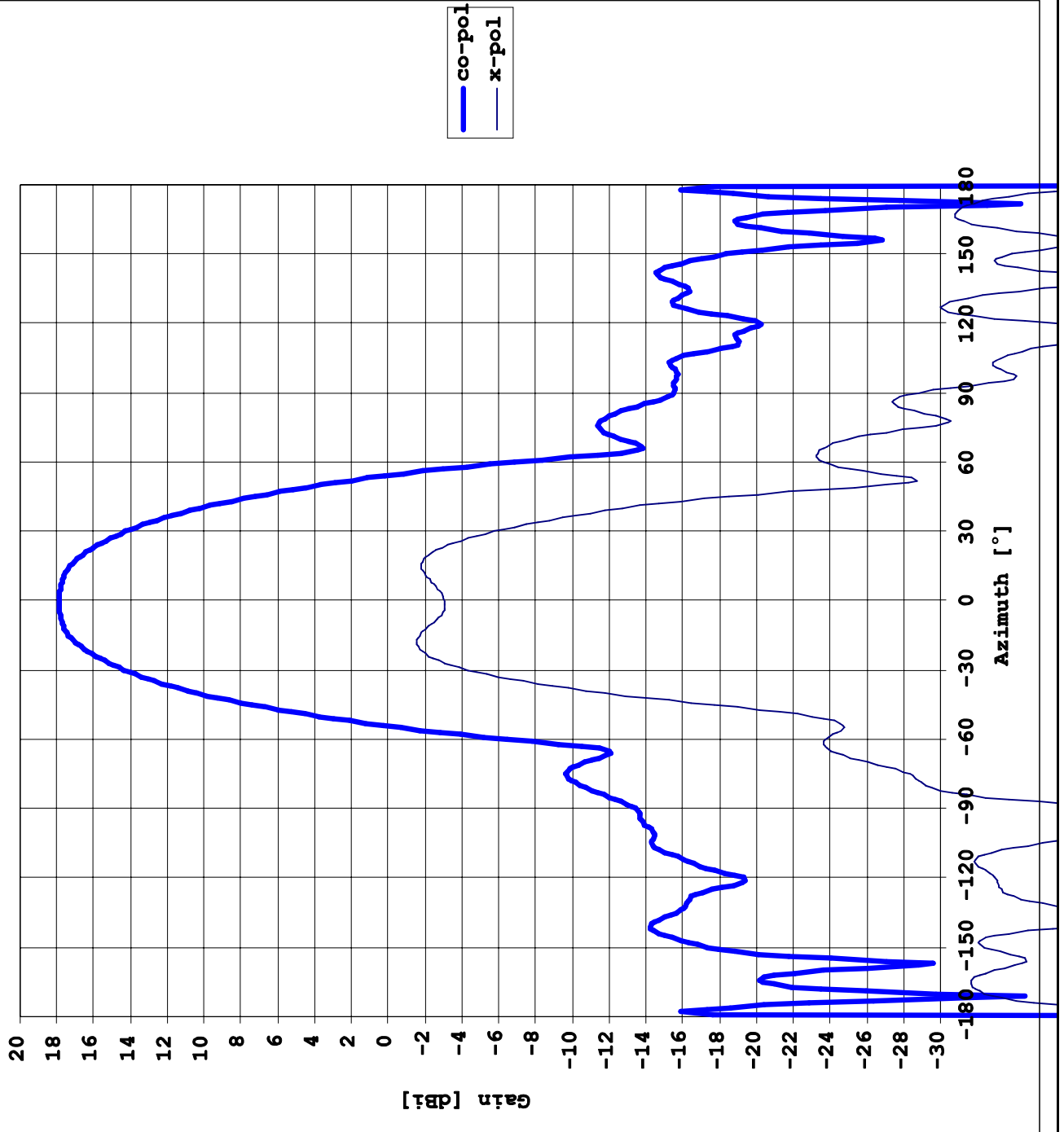




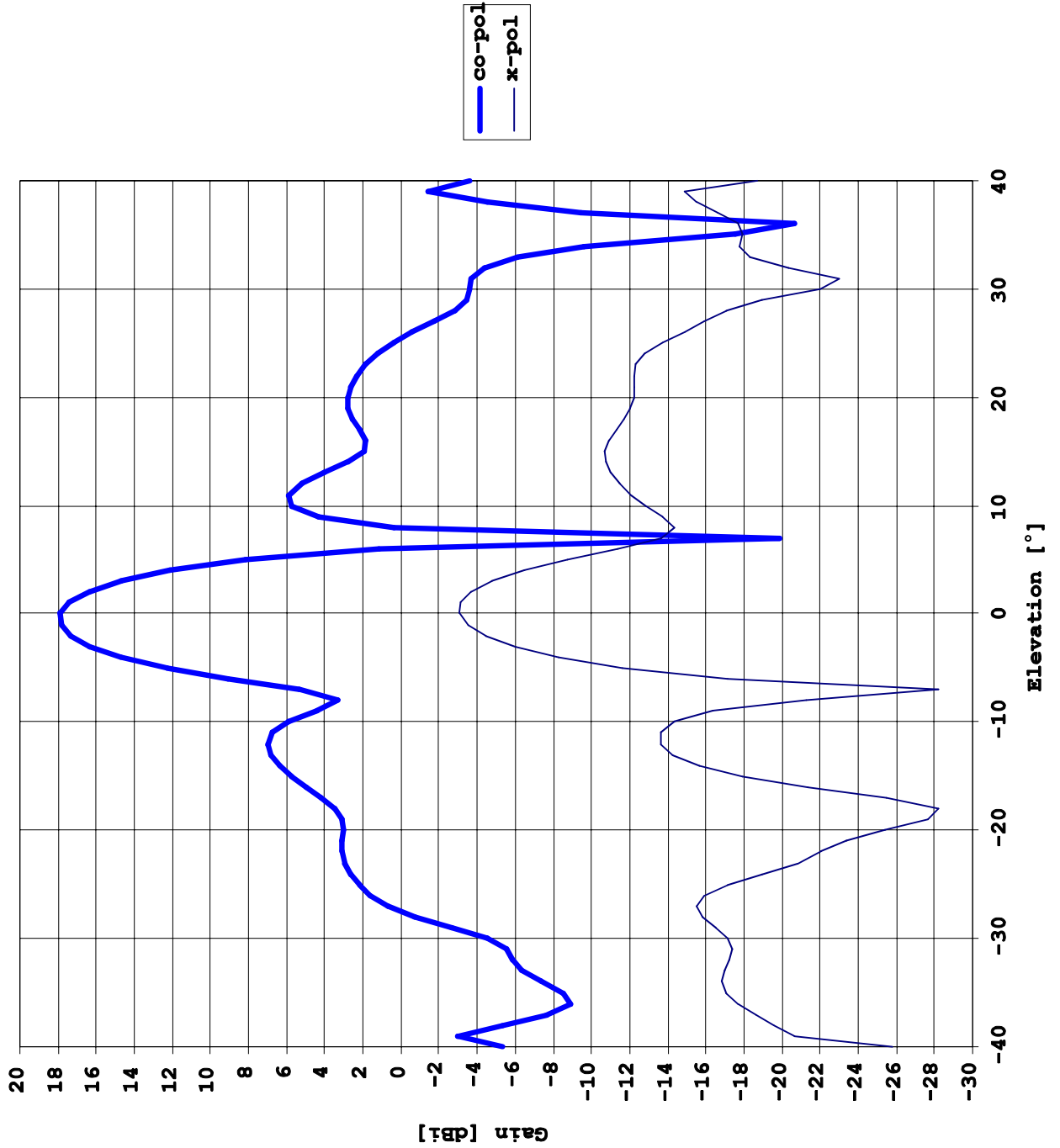
PWA3500-90 Vertical elevation



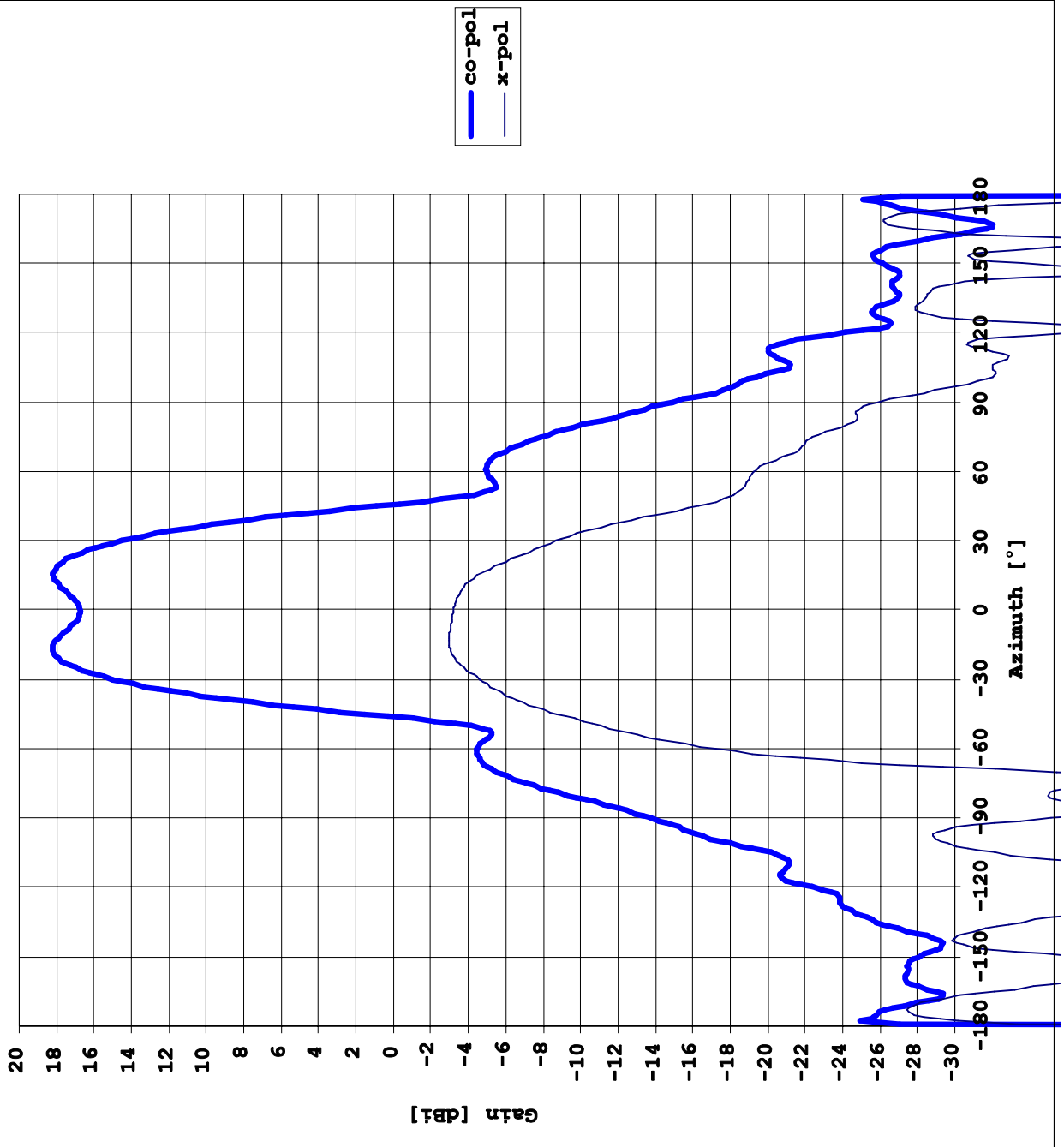
**H-pol, H-plane, 3.7GHz**



**H-pol, E-plane, 3.7GHz**

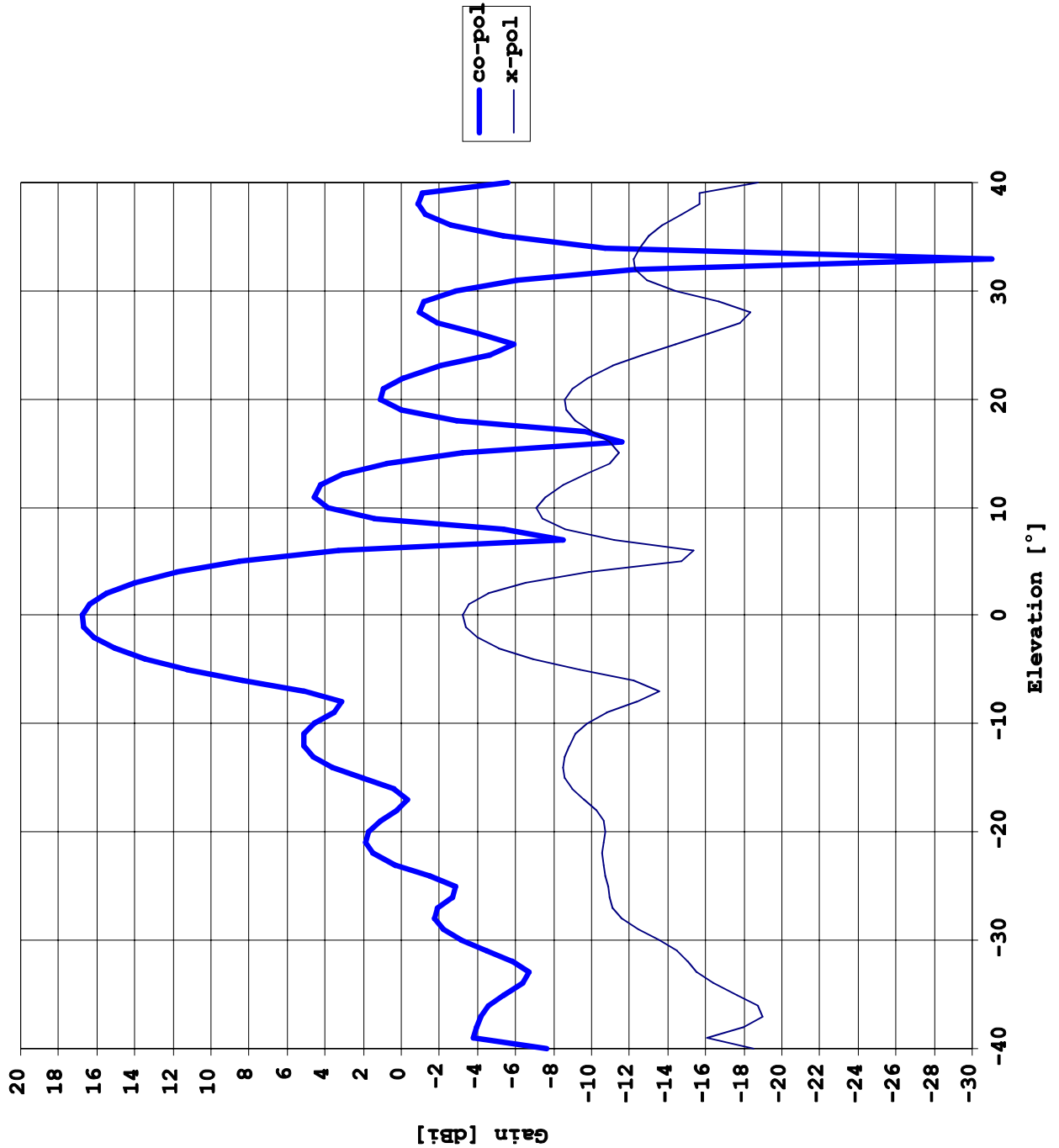


V-pol, H-plane, 3.7GHz





V-pol, E-plane, 3.7GHz



CPE / Remote Antenna Information

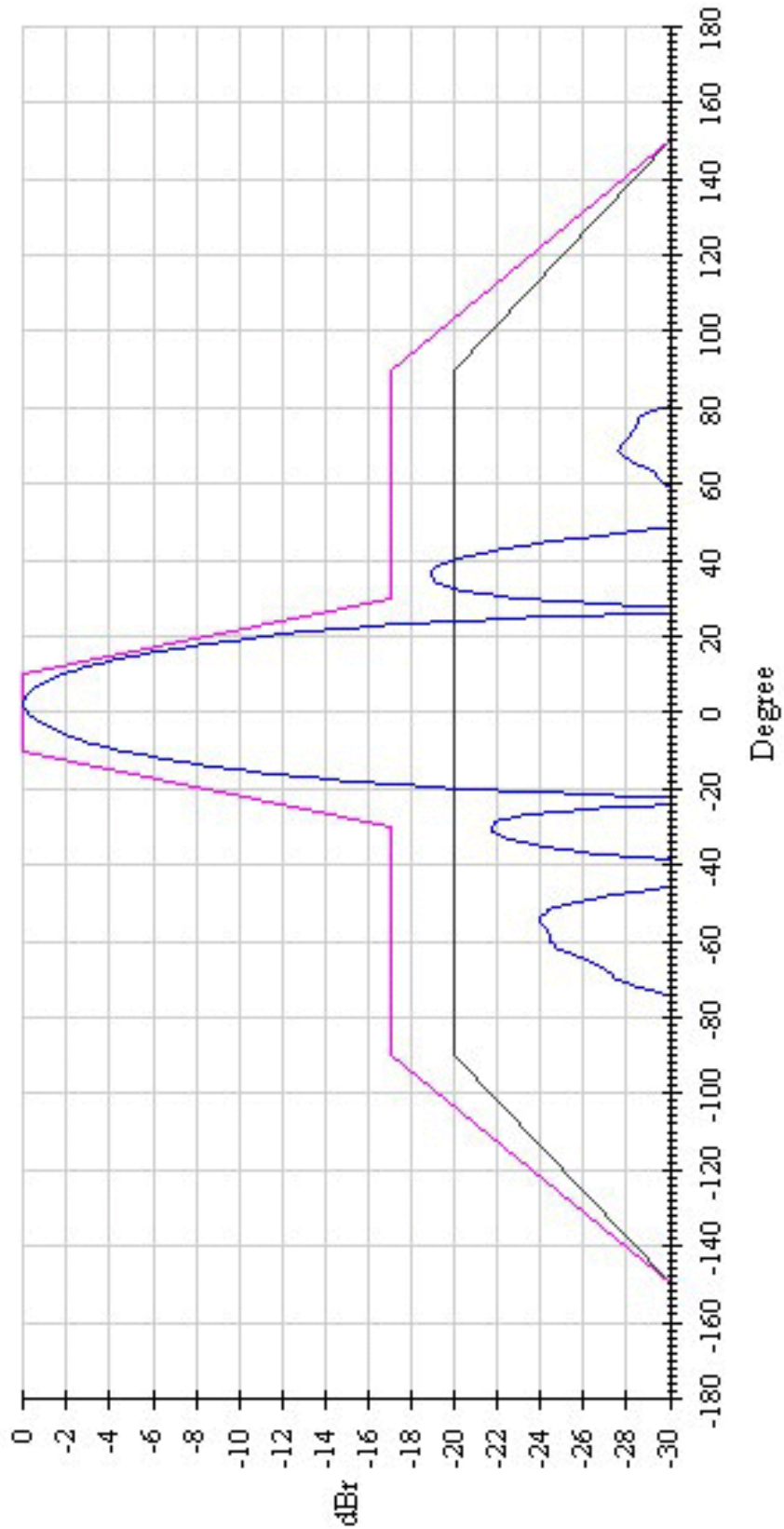
Aperto CPE: Horizontal Pattern

Data provided by the manufacturer

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Aperto Networks Subscriber Antenna Azimuth



Date: 9 Jul 2001 Freq: 3.500 Ghz HPBW: 19.82 ELEVATION +12.7 Aperto Networks Confidential

**CPE / Remote Antenna Information**

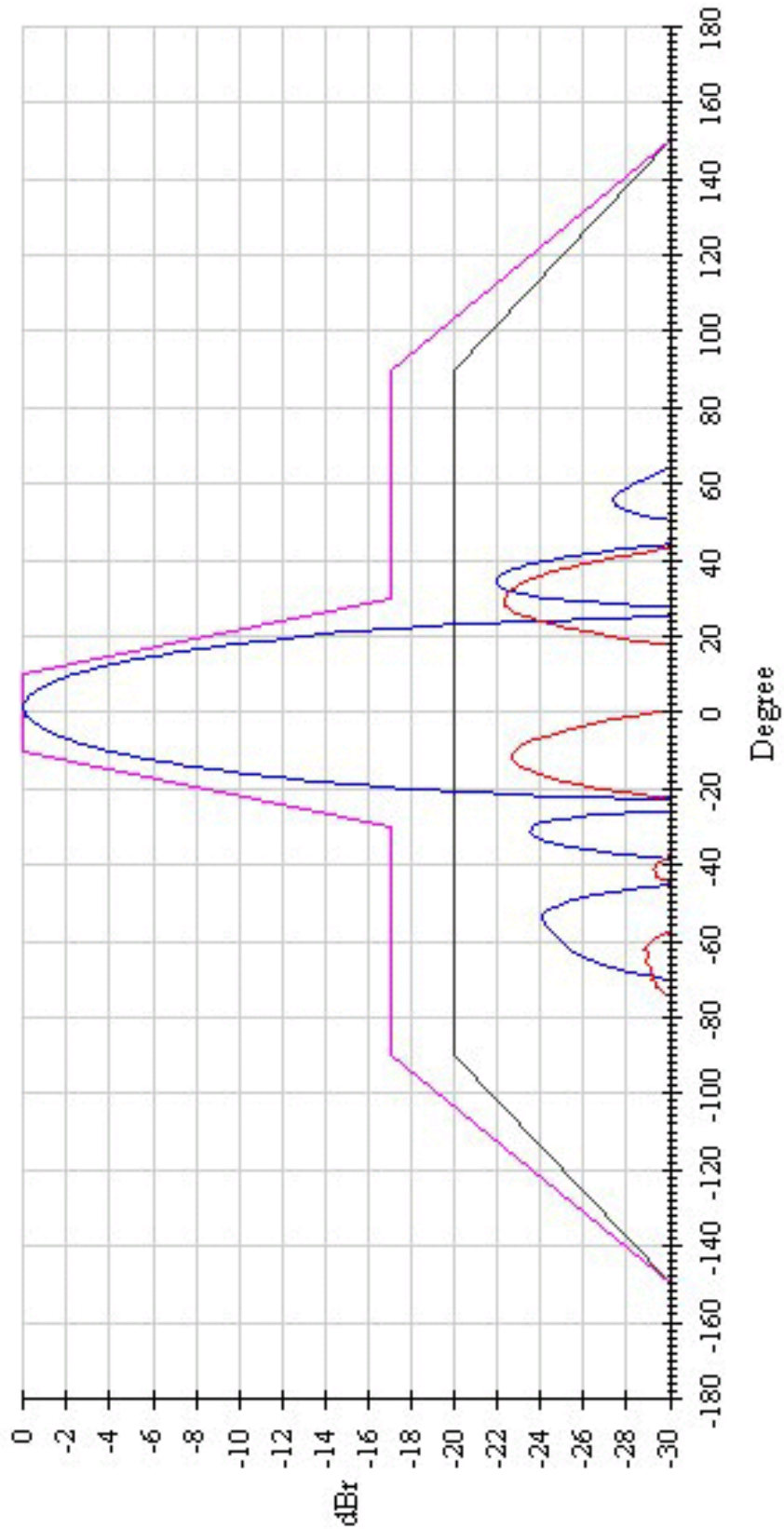
**Aperto CPE: Elevation Pattern**

Data provided by the manufacturer

**Exhibit 2**

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3.5 GHZ SUBSCRIBER ANTENNA



Date: 9 Jul 2001 Freq: 3.500 Ghz HPBW: 19.78 ELEVATION +12.7