

The following antennas will be deployed in the proposed system:

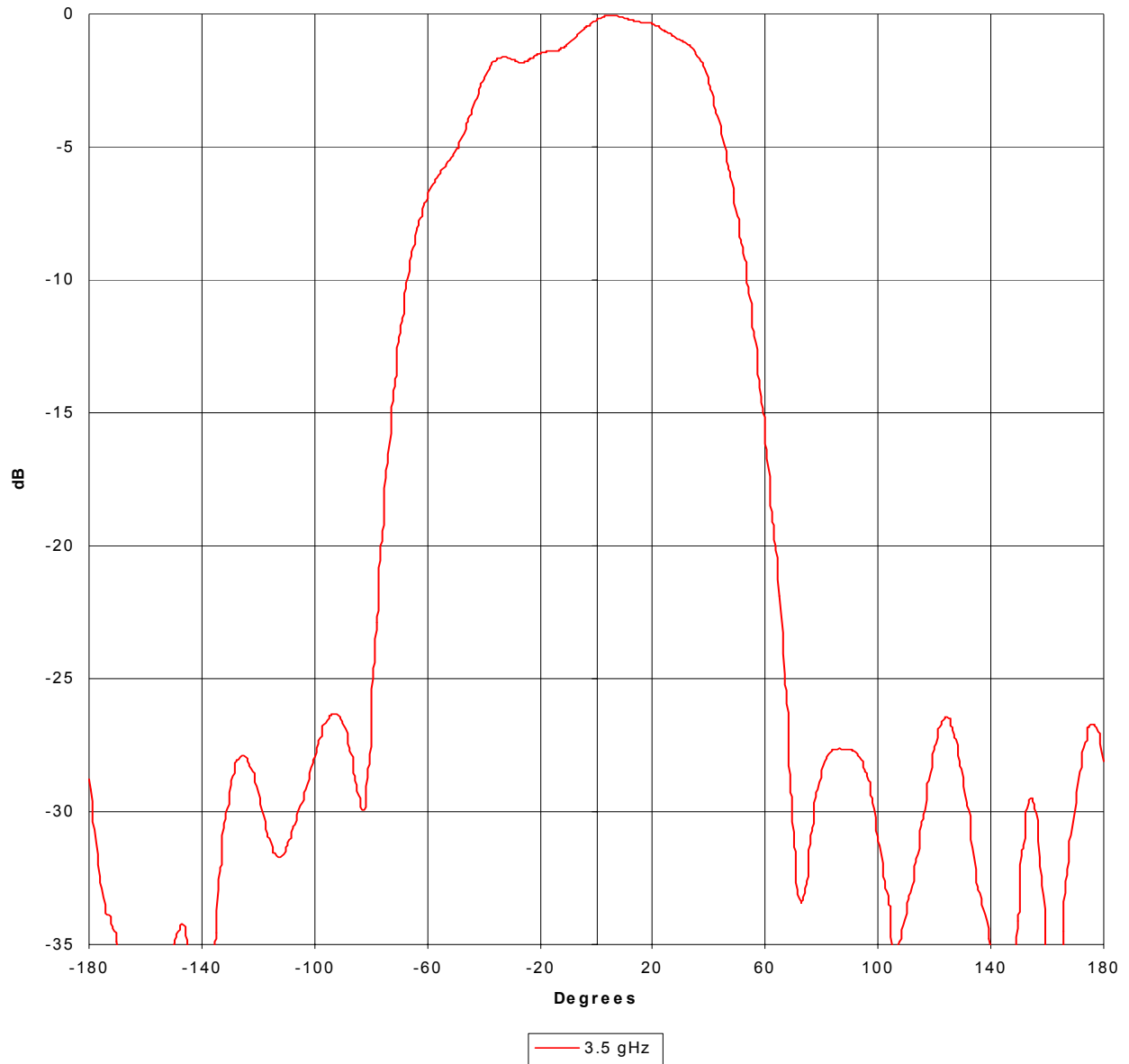
Base Station: Aperto 90° (90° beam width) and Aperto 60° (60° beam width): The base station will utilize a sectorized antenna system using up to six sectors. The specific azimuths, beam tilts and polarities for each sector will be determined and adjusted as part of the system tests.

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

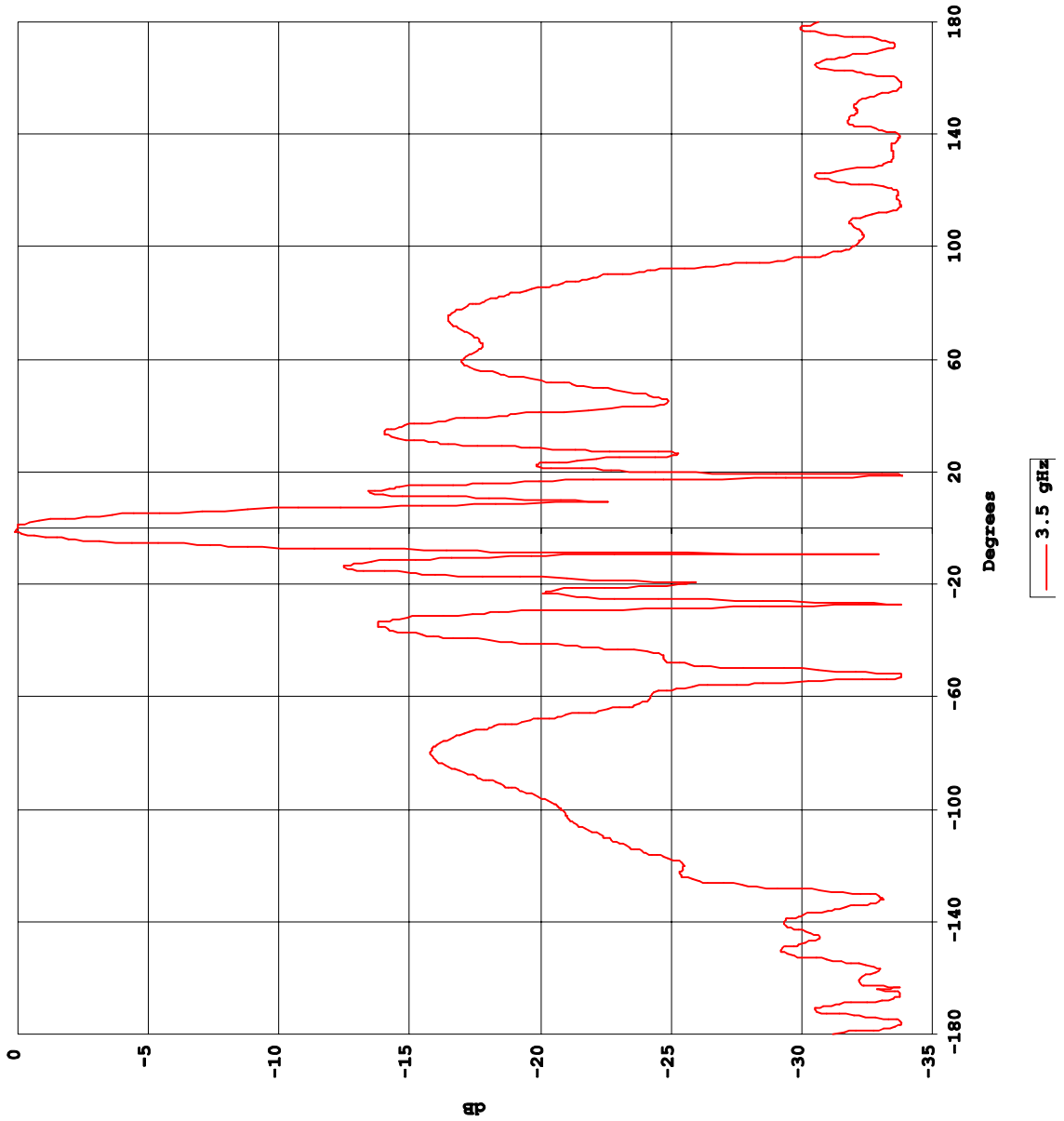
Data provided by the manufacturer

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FWA3500-90 Horizontal elevation

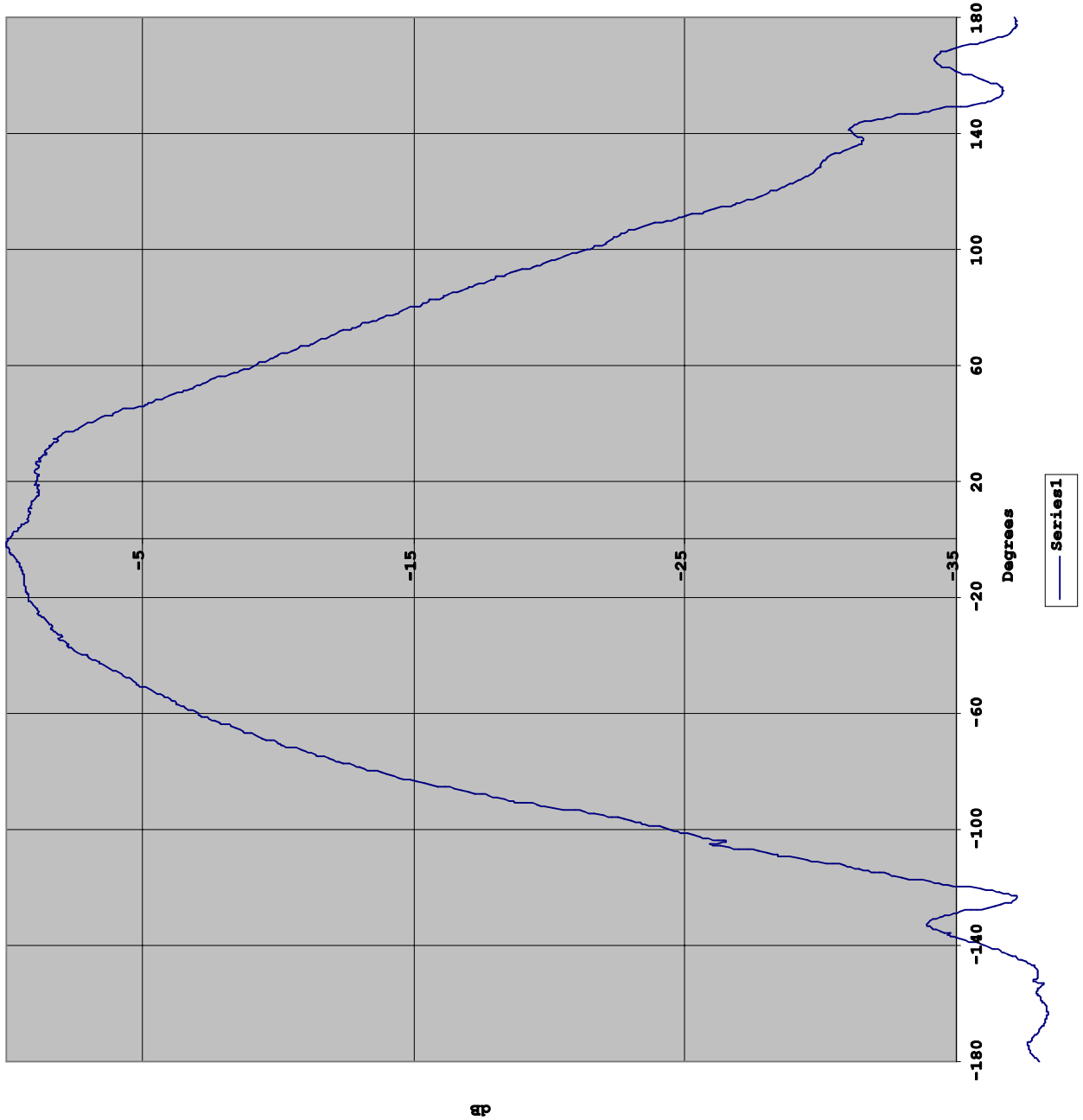


Base Station Antenna Information
Aperto 90°: Horizontal Pattern, Vertical Polarity
Data provided by the manufacturer

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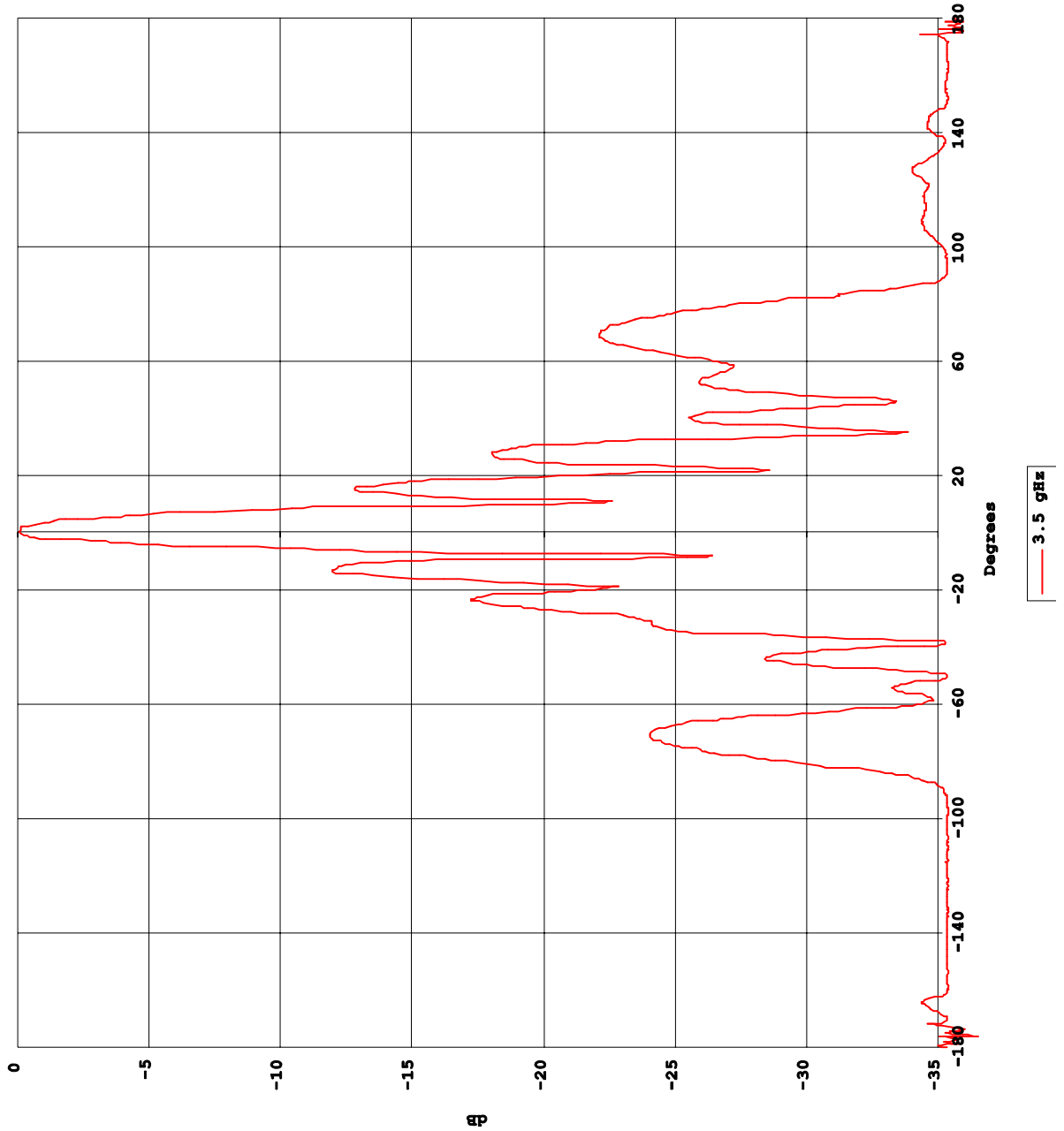


PacketWave PWA3500-90 Vertical Azimuth

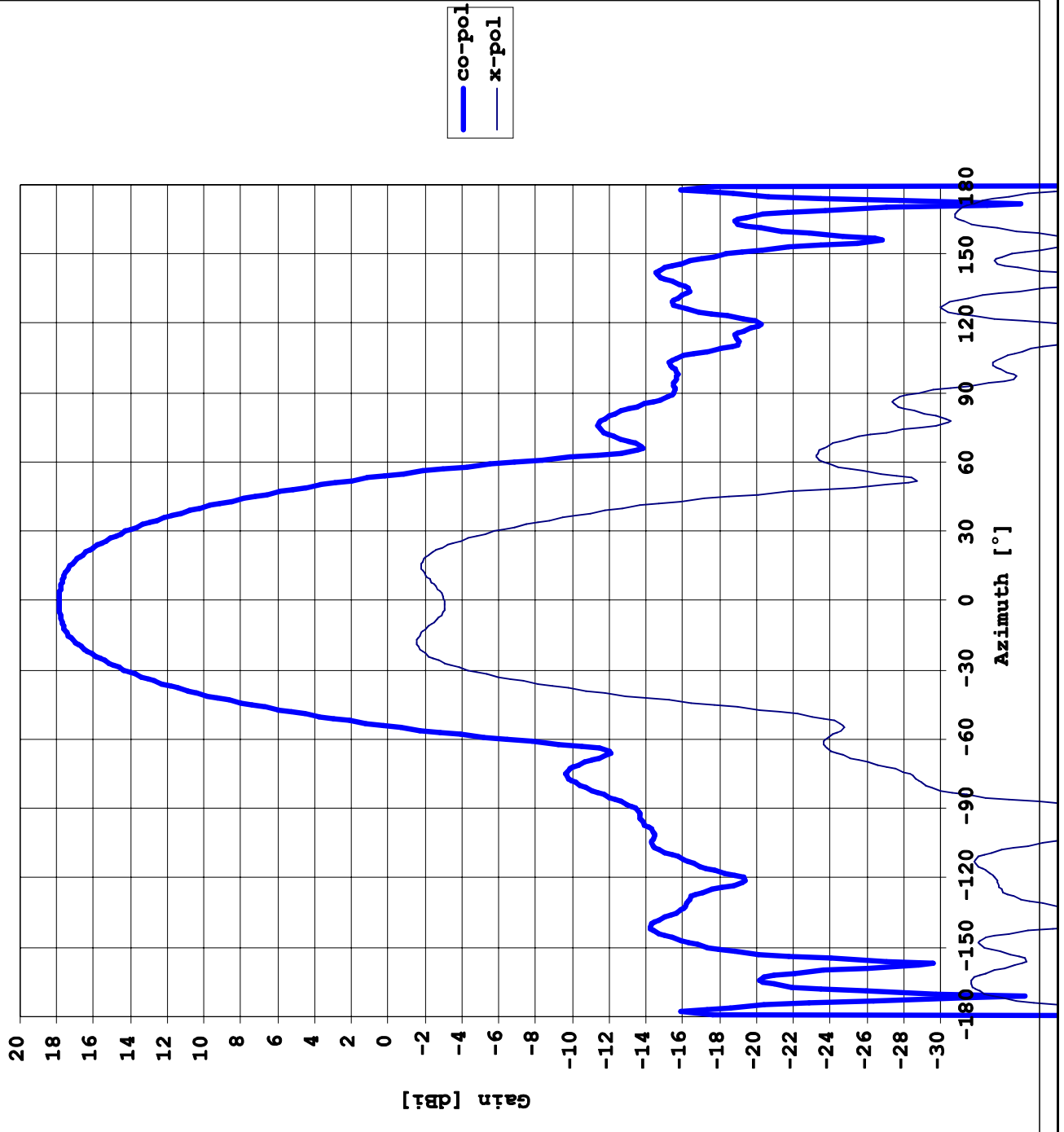




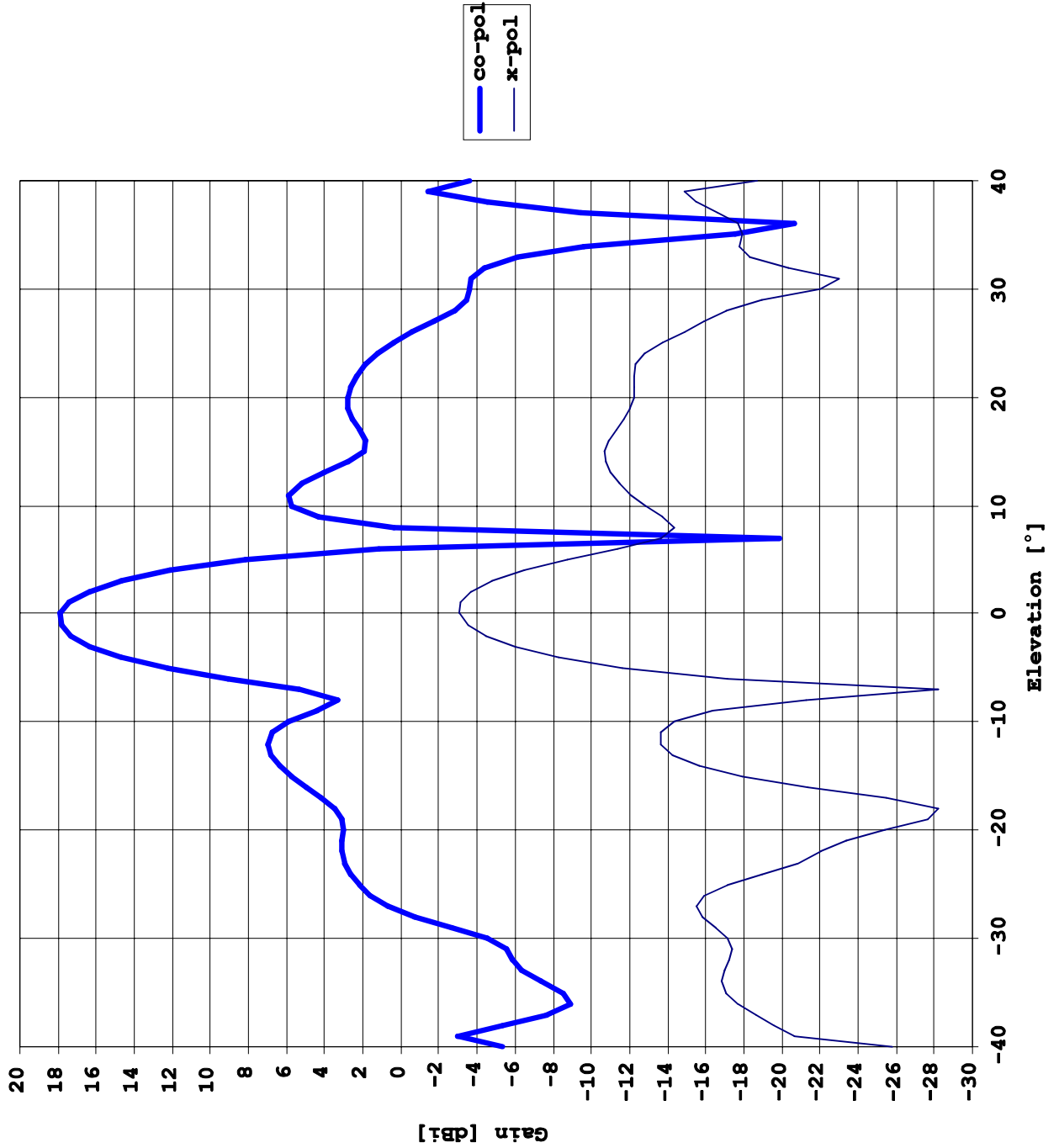
PWA3500-90 Vertical elevation



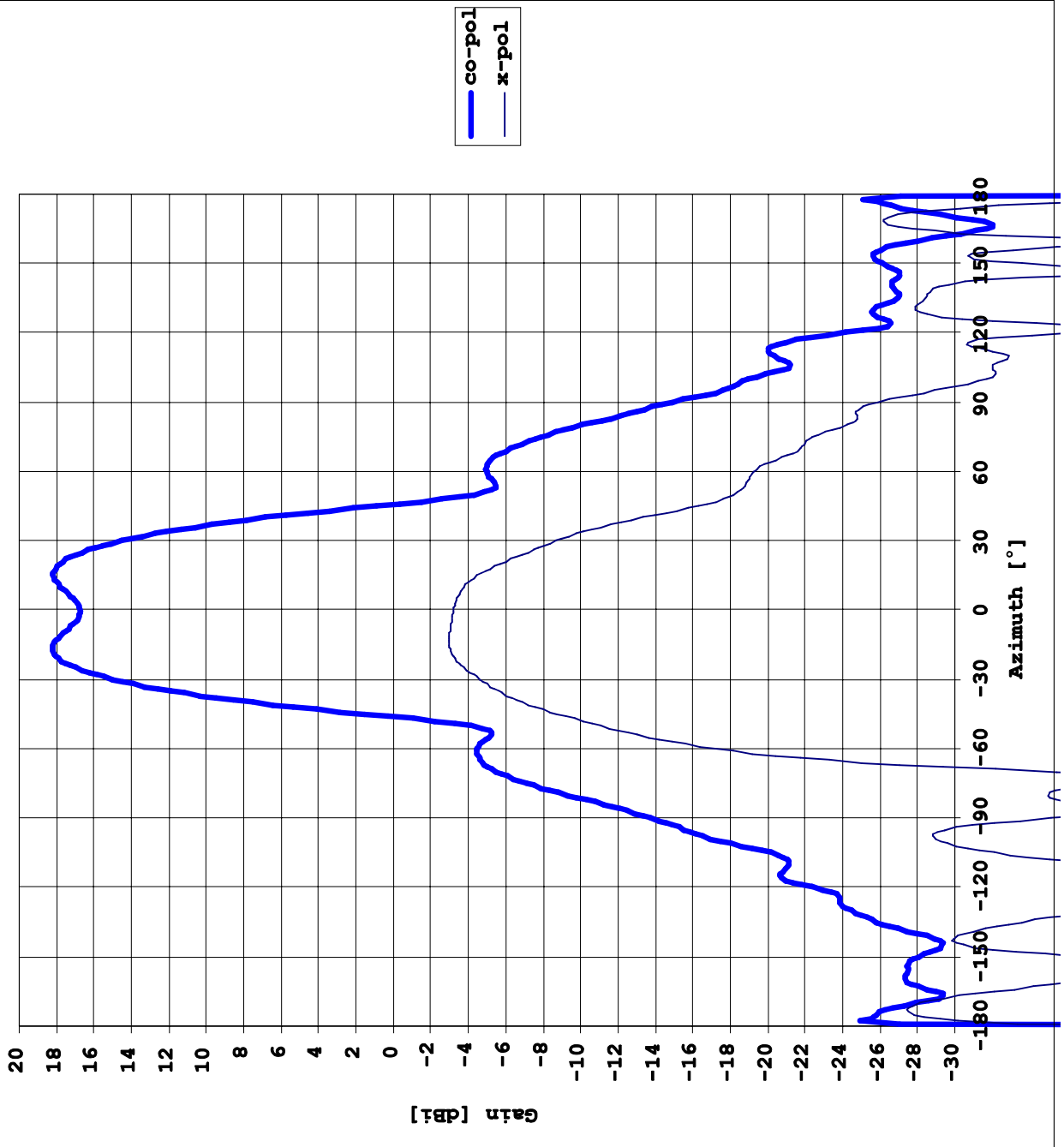
H-pol, H-plane, 3.7GHz



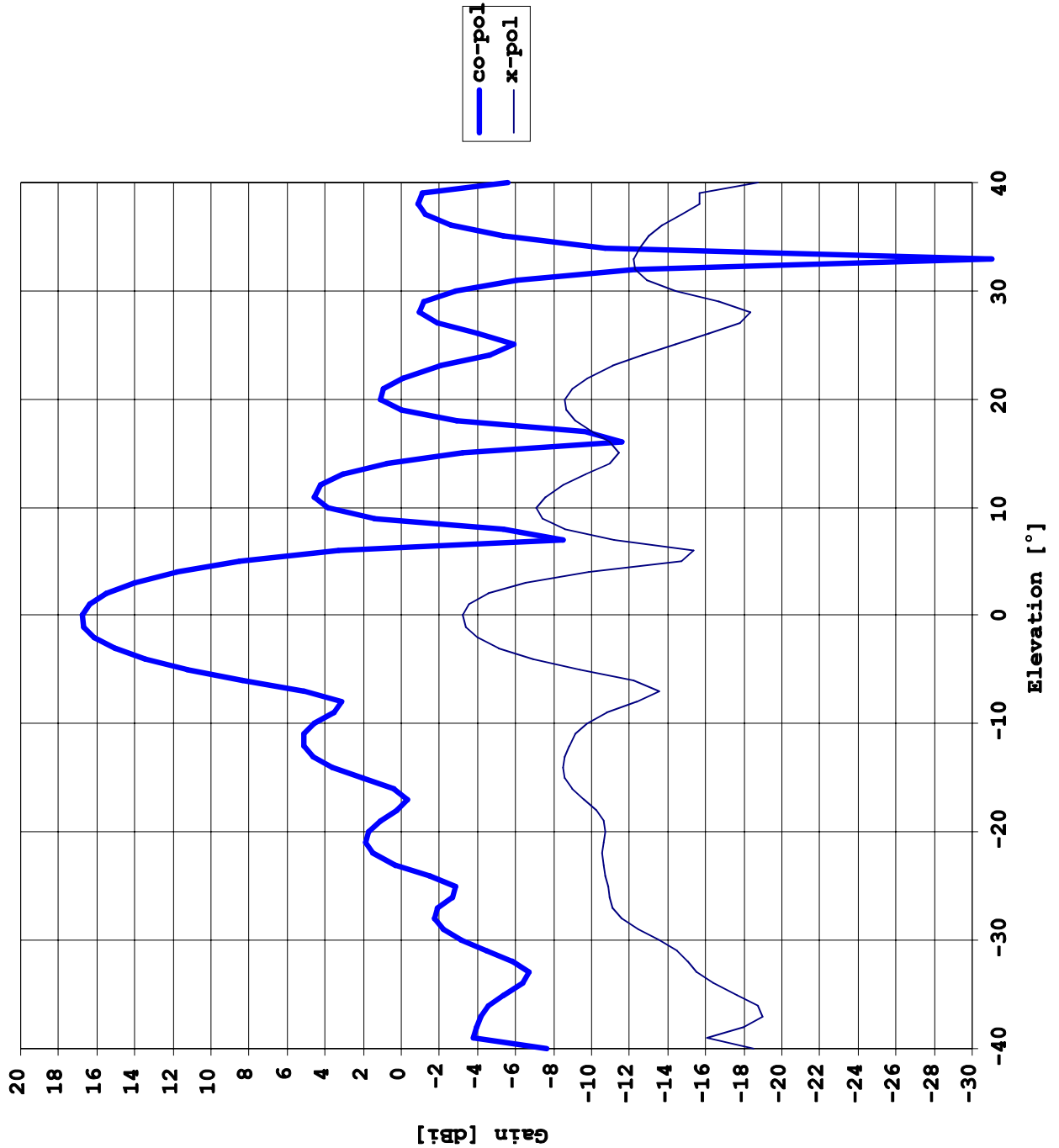
H-pol, E-plane, 3.7GHz



V-pol, H-plane, 3.7GHz



V-pol, E-plane, 3.7GHz



CPE / Remote Antenna Information

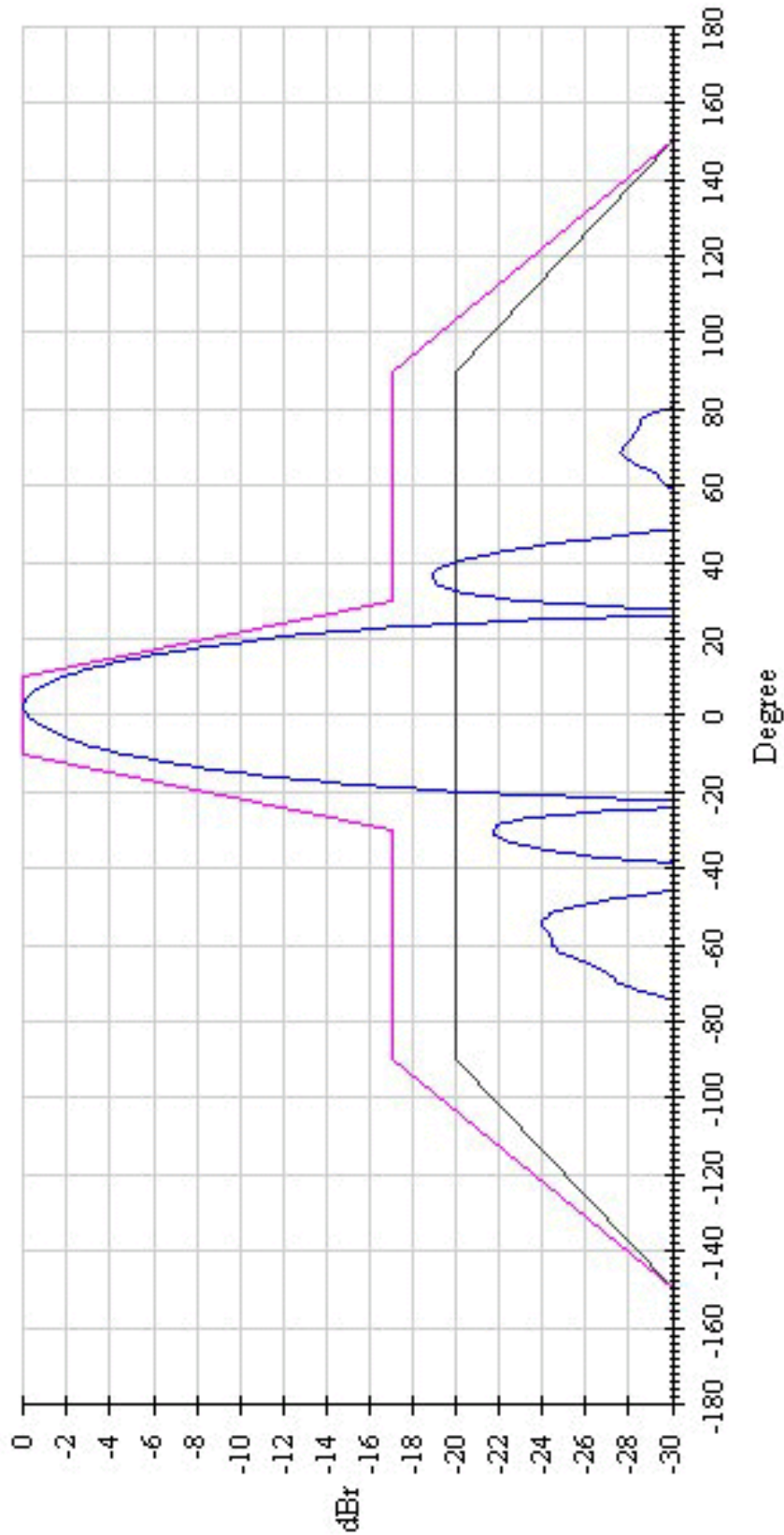
Aperto CPE: Horizontal Pattern

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

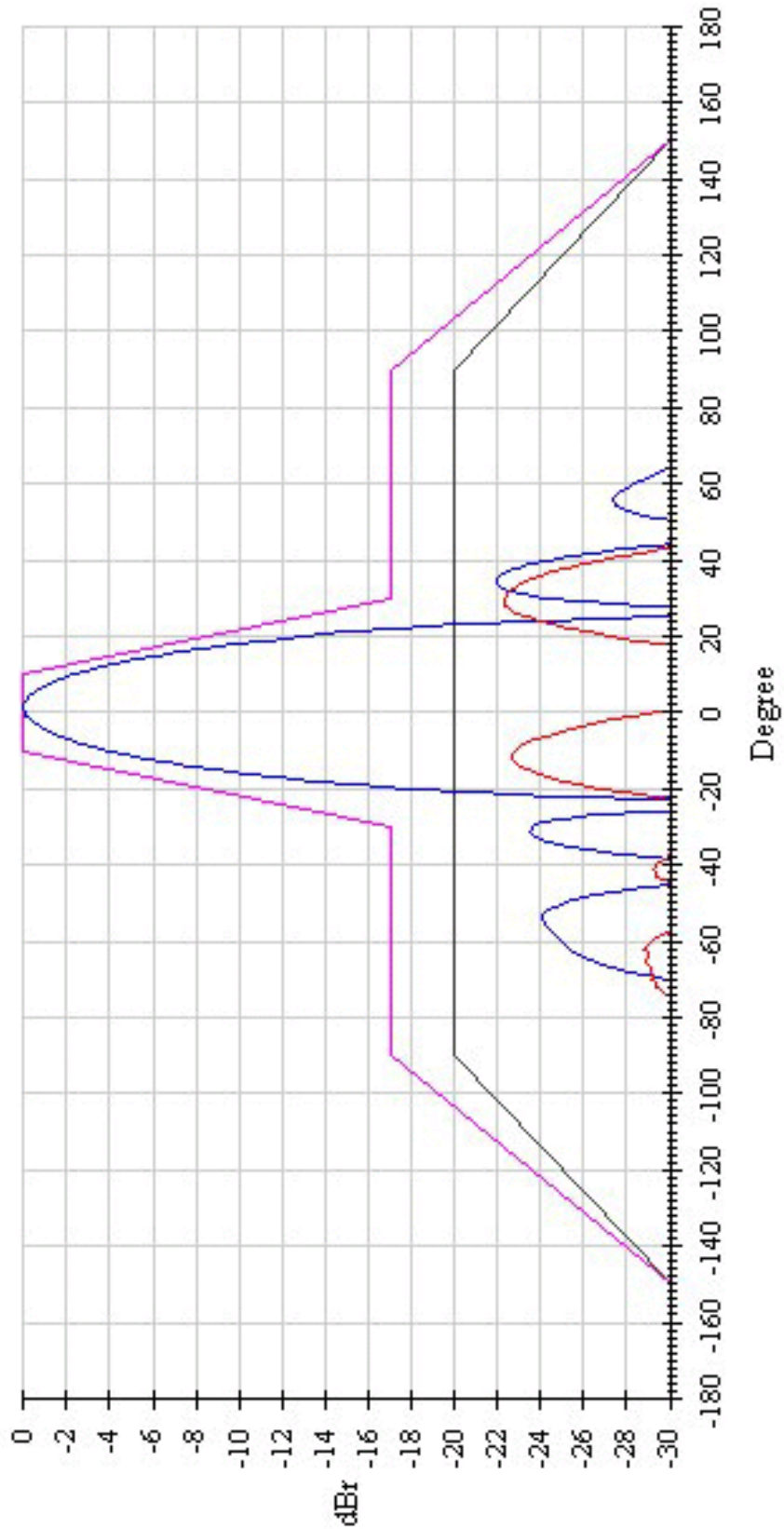
Aperto CPE: Elevation Pattern

Data provided by the manufacturer

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3.5 GHZ SUBSCRIBER ANTENNA



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