

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.

Base Station Antenna Information

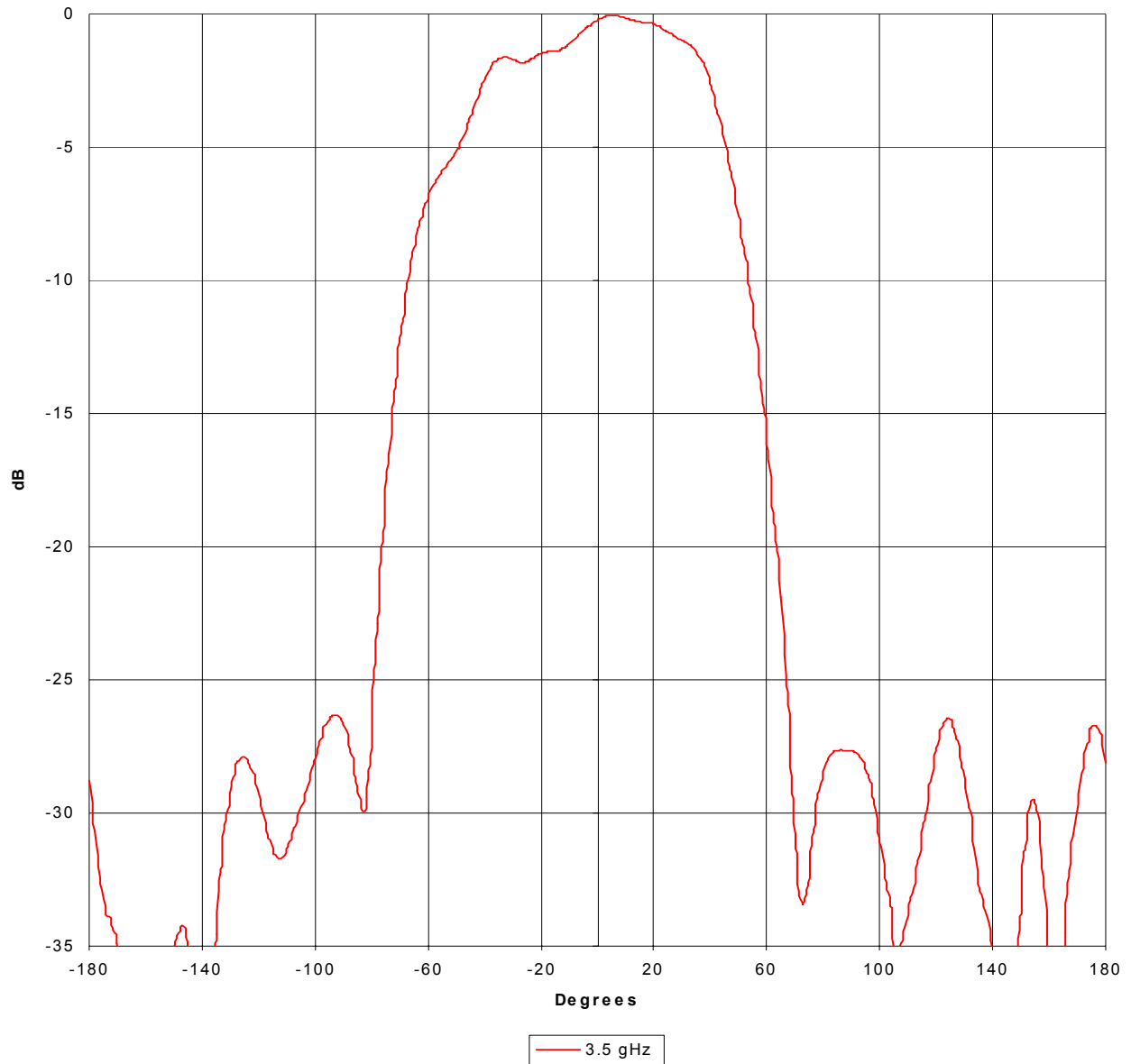
Aperto 90°: Horizontal Pattern, Horizontal Polarity

Data provided by the manufacturer

Exhibit 2

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TowerStream Corp.
Las Vegas, NV

PWA3500-90 Horizontal Azimuth



Base Station Antenna Information

Aperto 90°: Elevation Pattern, Horizontal Polarity

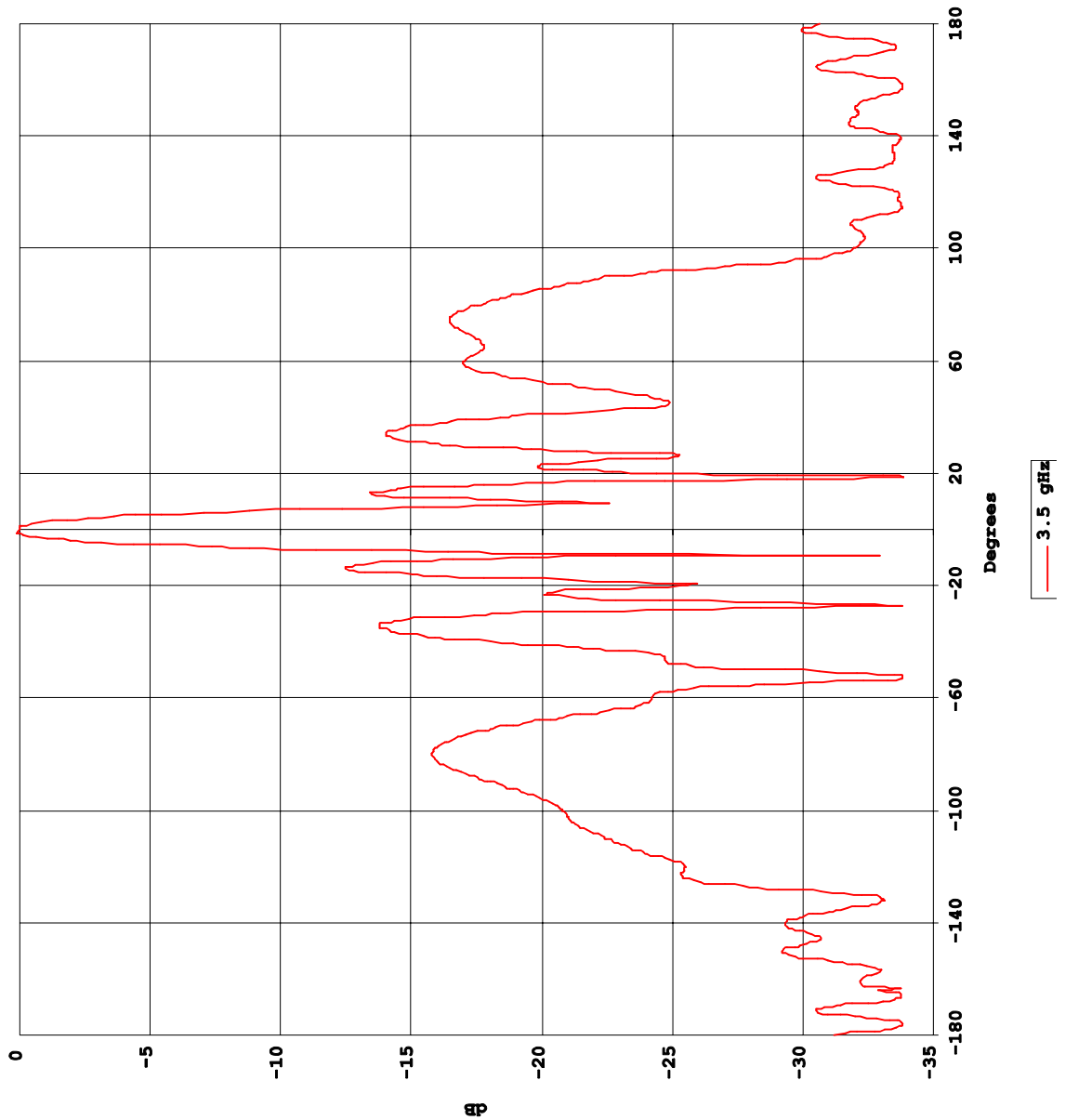
Data provided by the manufacturer

Exhibit 2

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PWA3500-90 Horizontal elevation



Base Station Antenna Information

Aperto 90°: Horizontal Pattern, Vertical Polarity

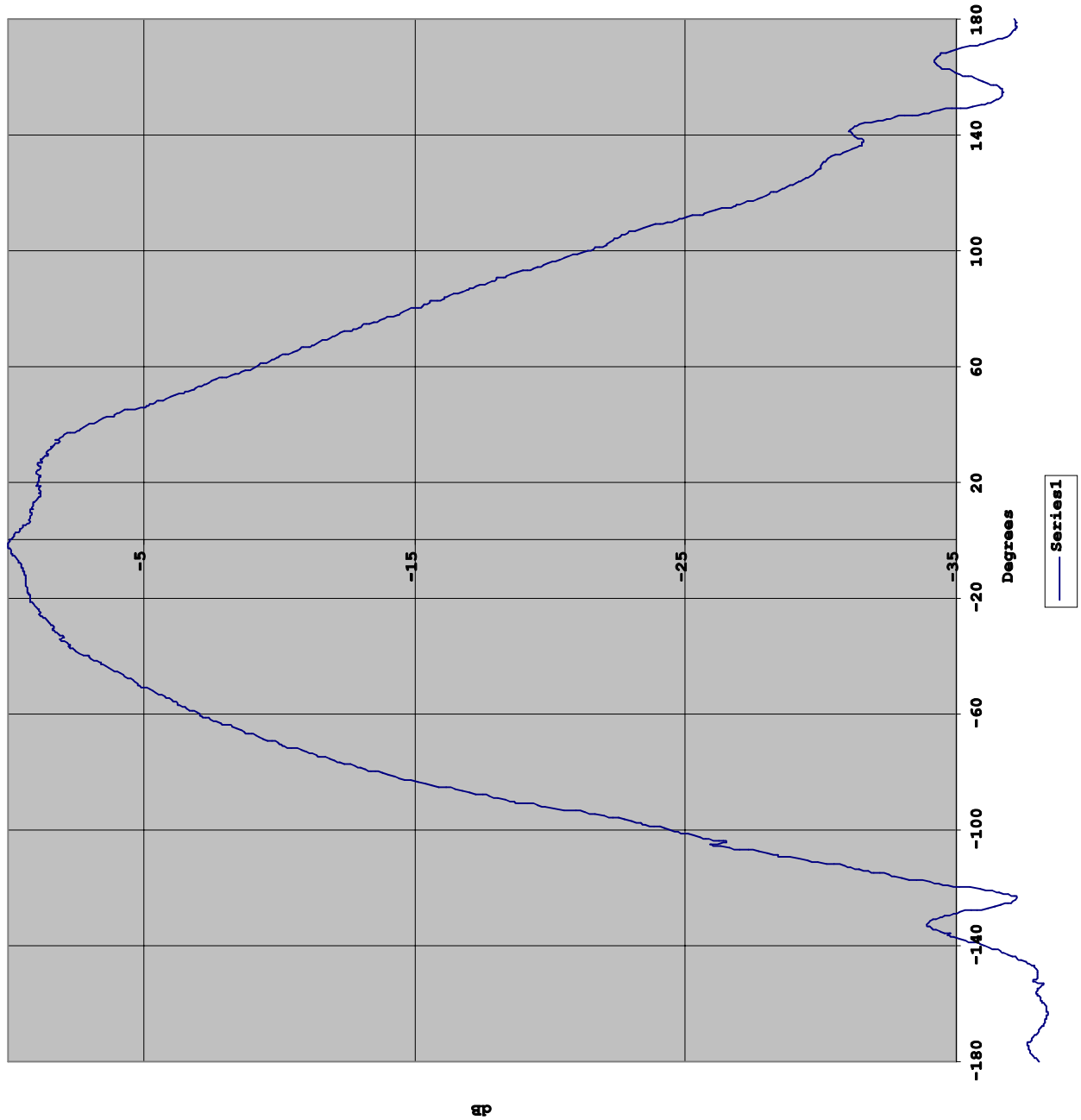
Data provided by the manufacturer

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PacketWave PWA3500-90 Vertical Azimuth

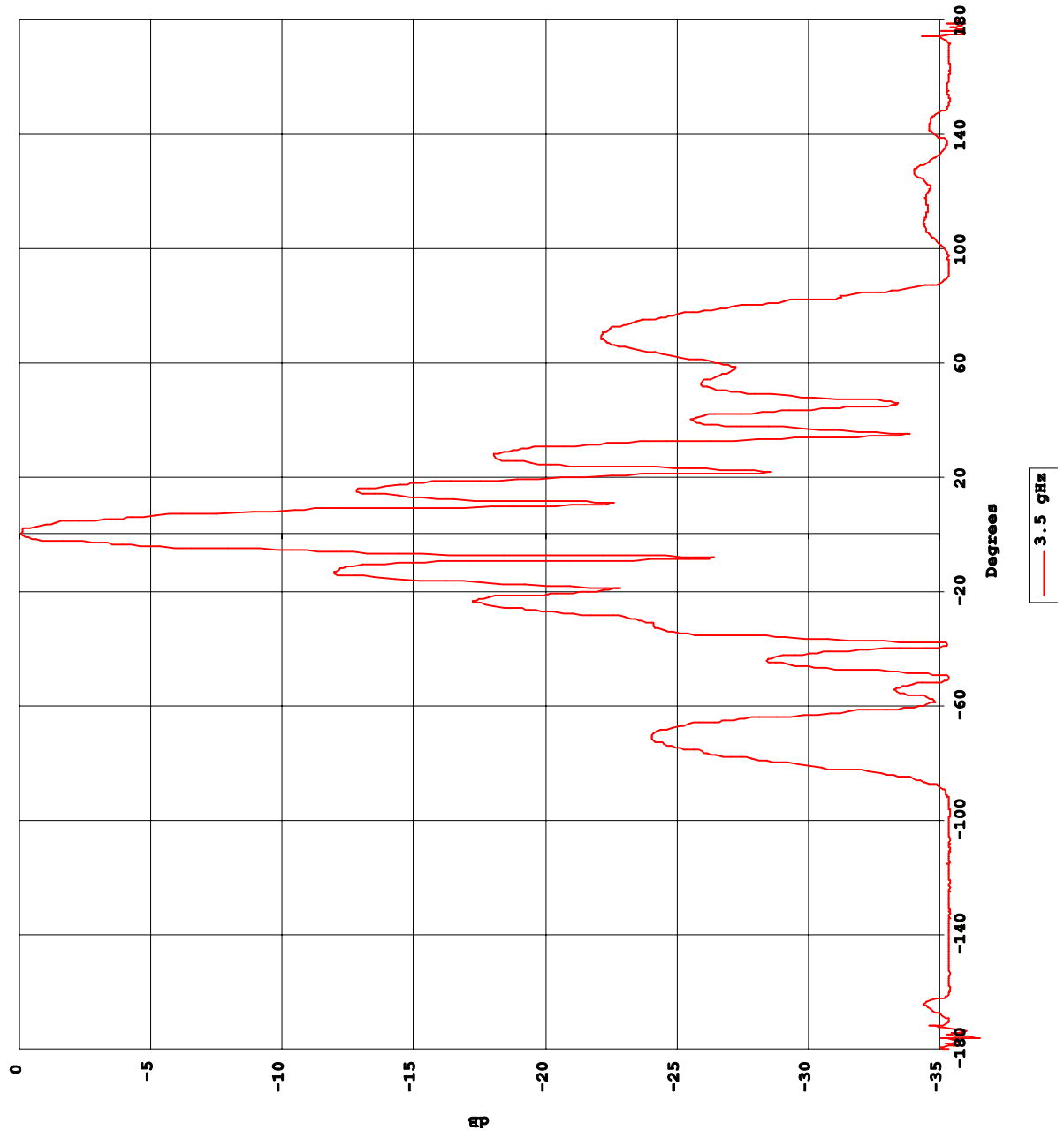


Base Station Antenna Information
Aperto 90°: Elevation Pattern, Vertical Polarity
Data provided by the manufacturer

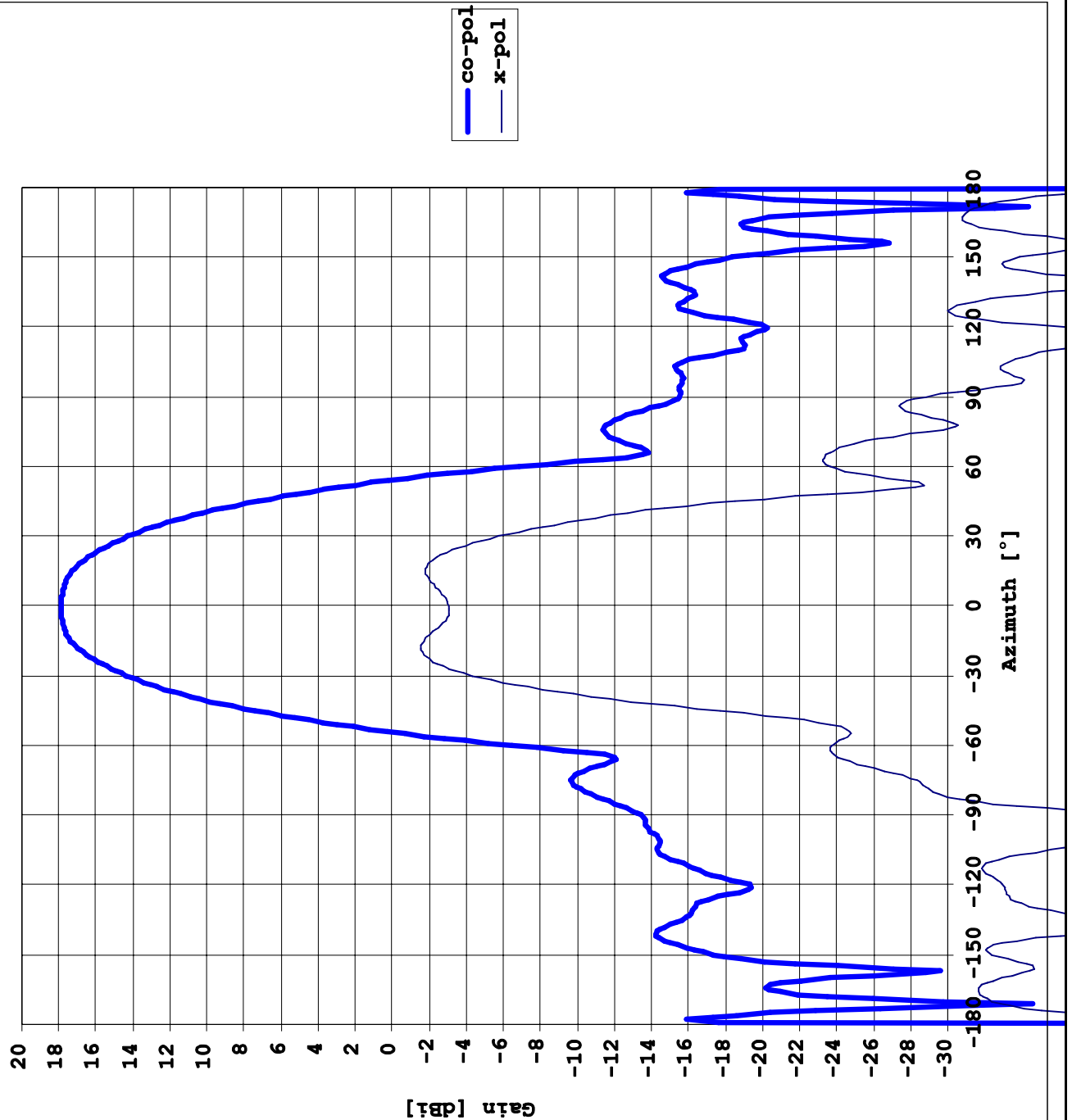
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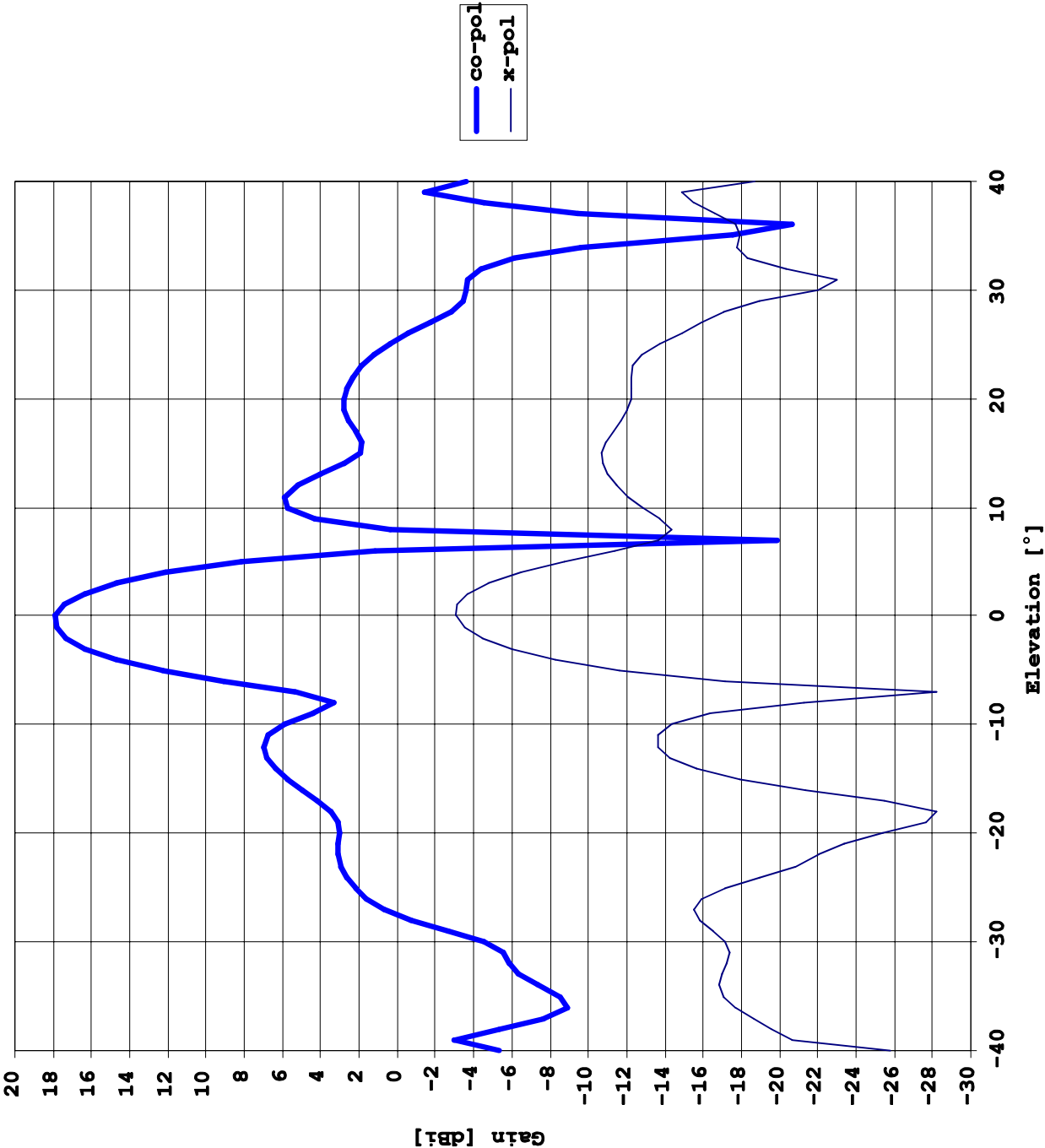
PWA3500-90 Vertical elevation



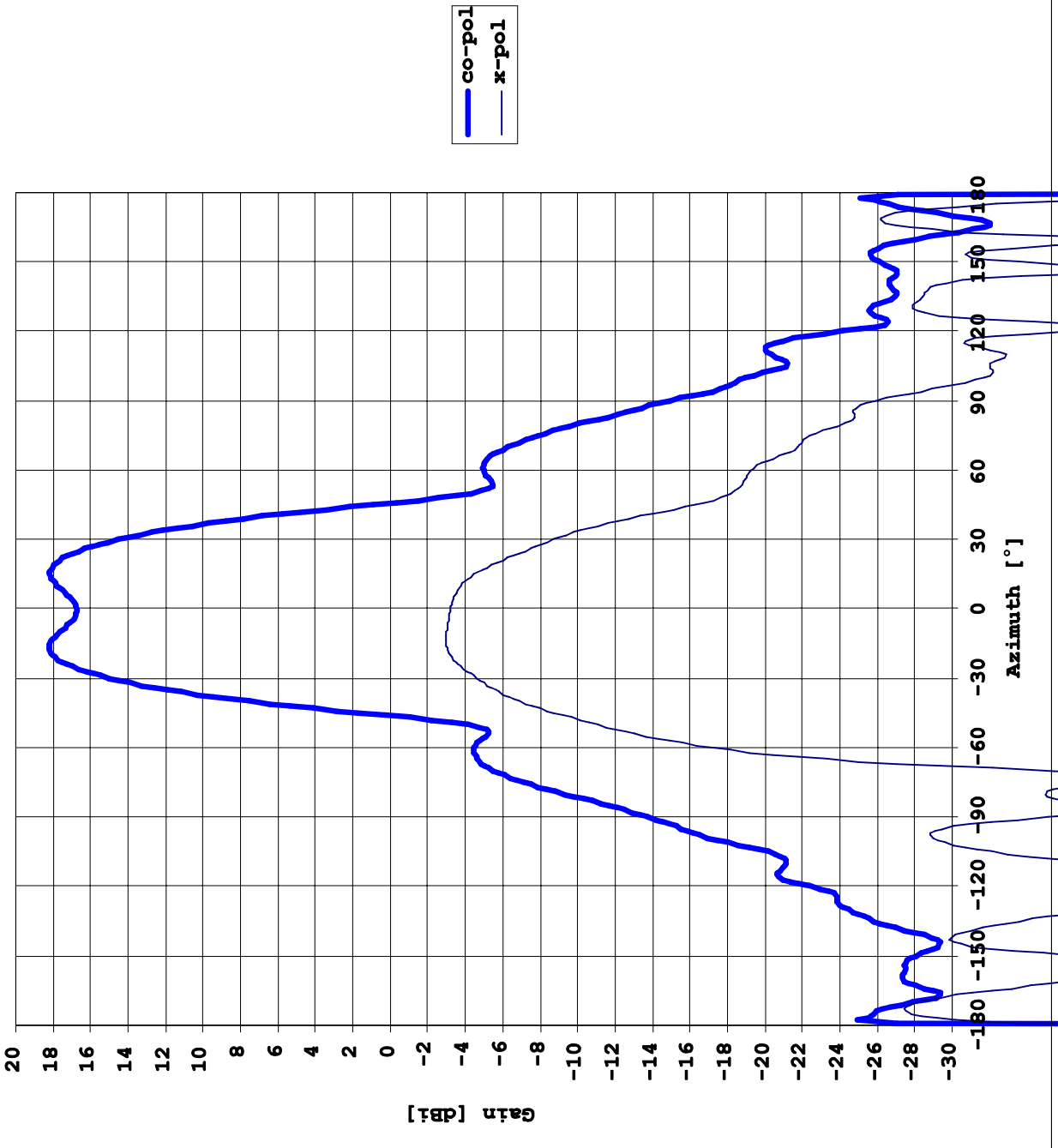
H-pol, H-plane, 3.7GHz



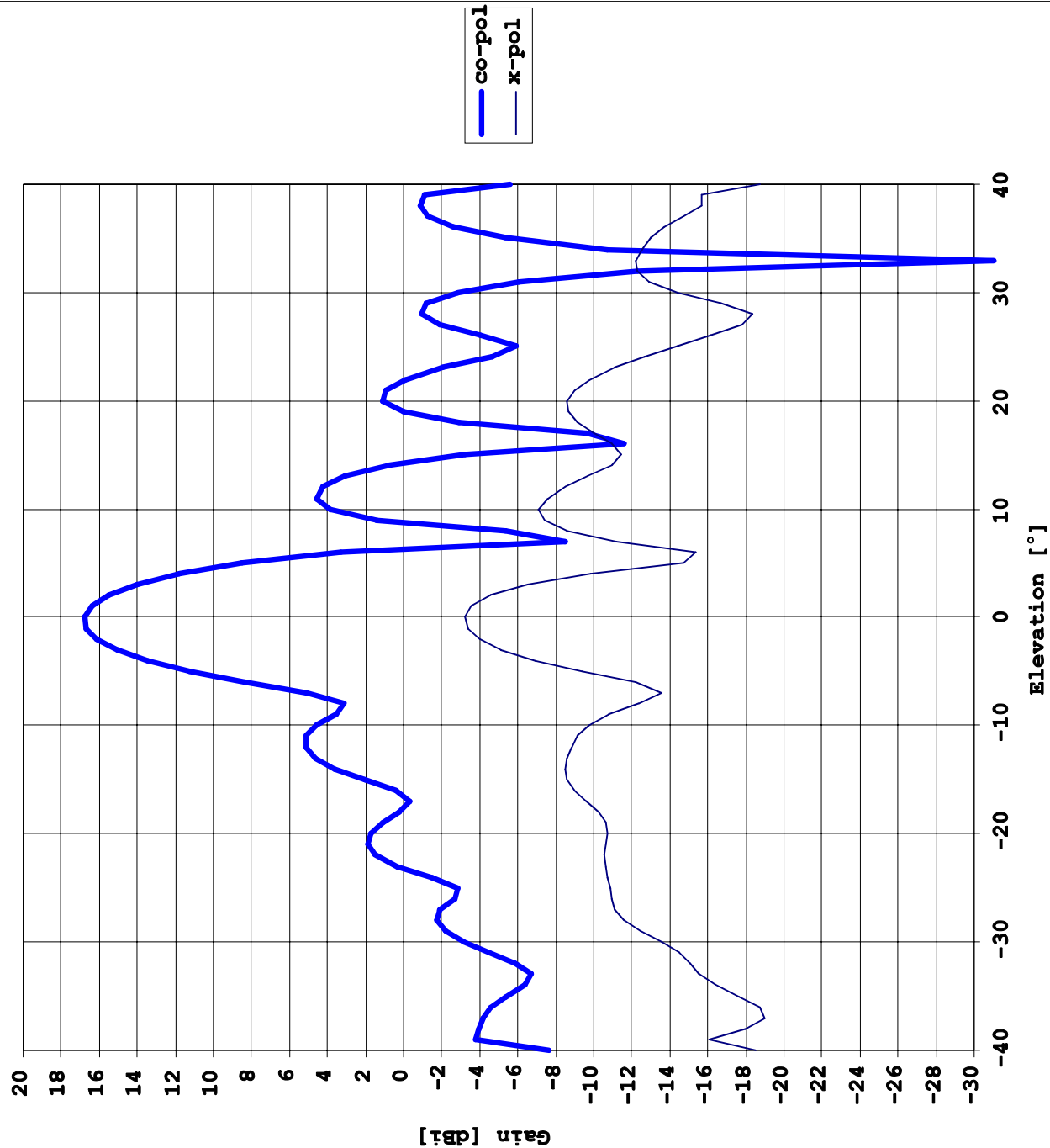
H-pol, E-plane, 3.7GHz



V-pol, H-plane, 3.7GHz



V-pol, E-plane, 3.7GHz



CPE / Remote Antenna Information

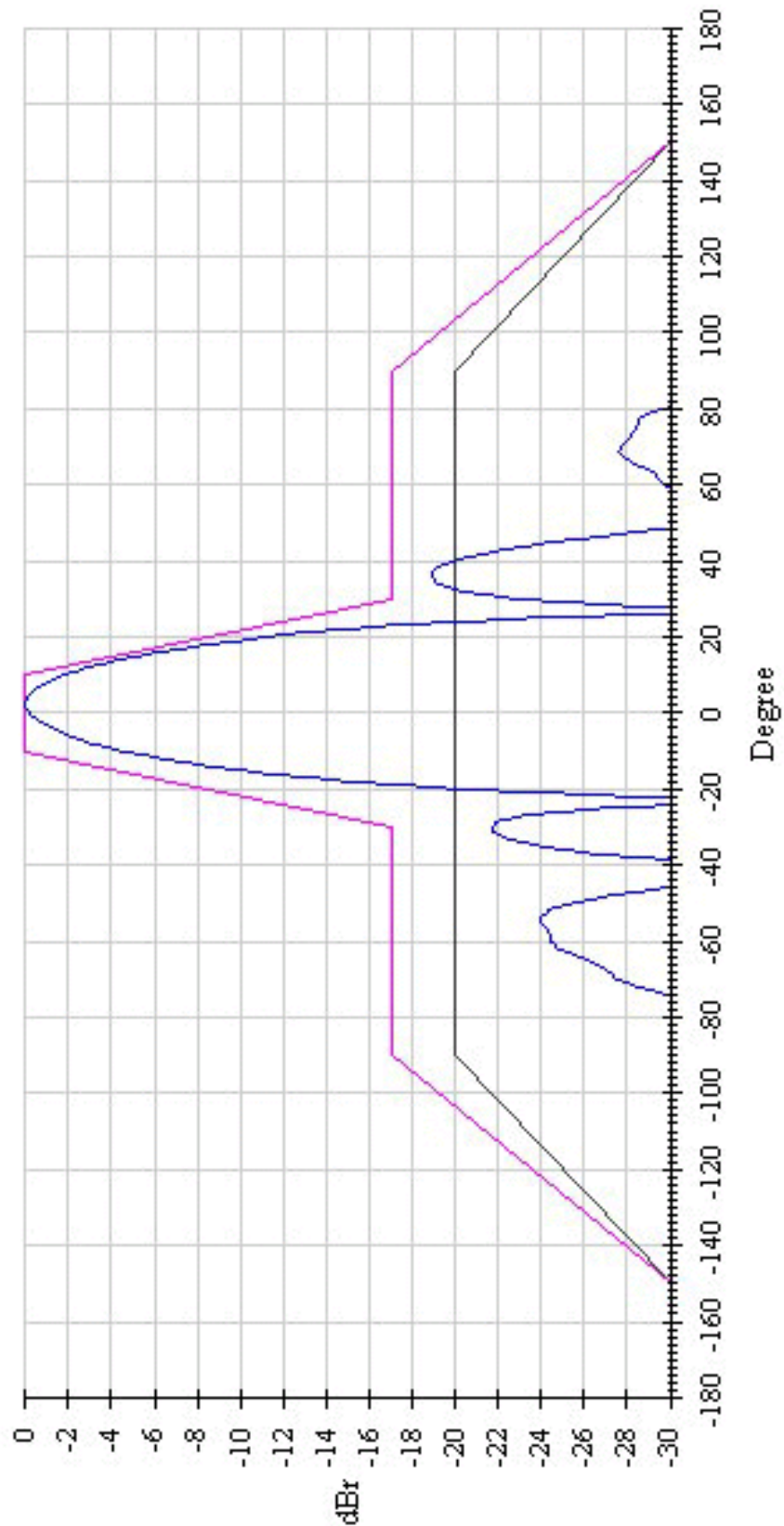
Aperto CPE: Horizontal Pattern

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

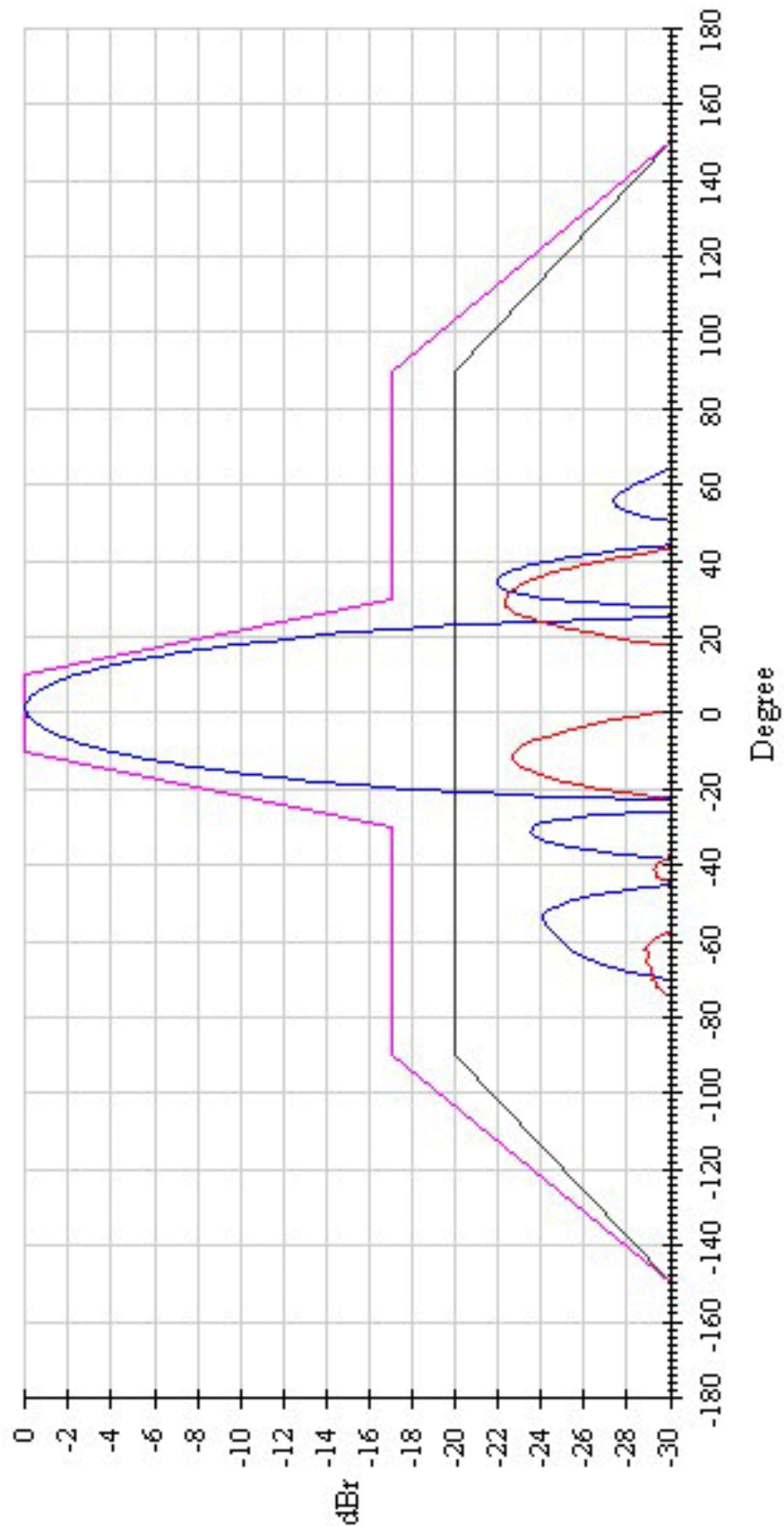
Aperto CPE: Elevation Pattern

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