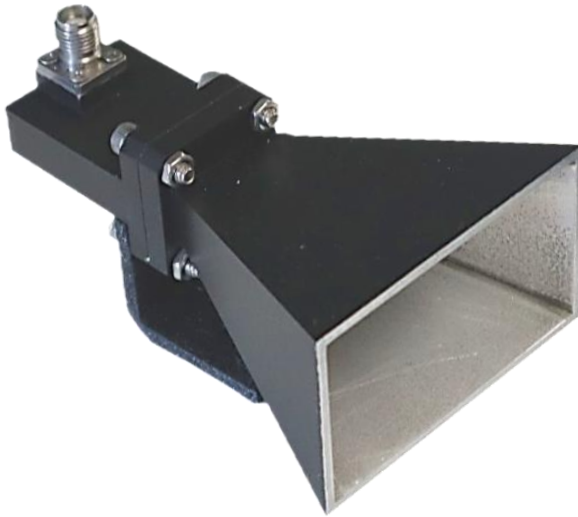


## EM-7103 | Antenna, Standard Gain Horn, Passive, Directional



### Description

The EM-7103 Standard Gain Horn is a WR-42 waveguide based K band antenna featuring high gain and stable beamwidth across its frequency range.

The EM-7103 is based on the standard WR-42 waveguide and features a detachable UG595/U flange mount which allows for the horn flare and coax-to-waveguide adapter to be used separately.

Each EM-7103 comes standard with NIST Traceable 1m gain and antenna factor calibration data.

### Specifications

#### Electrical

**Frequency Range:** 18GHz – 26.5GHz

**Polarization:** Linear, Vertical

**VSWR:** >1.3:1 Typical

**3dB Beamwidth:** 24° - 11° Typical Azimuth

27° - 16° Typical Elevation

**Impedance:** 50Ω, Nominal

**Gain:** 15-18dBi Nominal

**Connector:** SMA (EM-7103 | 18GHz-26.5GHz)

**Waveguide:** WR42

#### Mechanical

##### Dimensions:

Length: 7.7cm (3.03 in.)

Width: 5.2cm (2.05 in.)

Height: 3.2cm (1.26 in.)

Weight: 60g (0.13 lbs.)

##### Mounting Options Available:

**EM-7103** ¼ - 20 Vertical/Horizontal mount

**EM-7103A** WR-42 Coax-to-Waveguide Adapter

**EM-7103B** WR-42 15-20dBi Gain Horn Flare

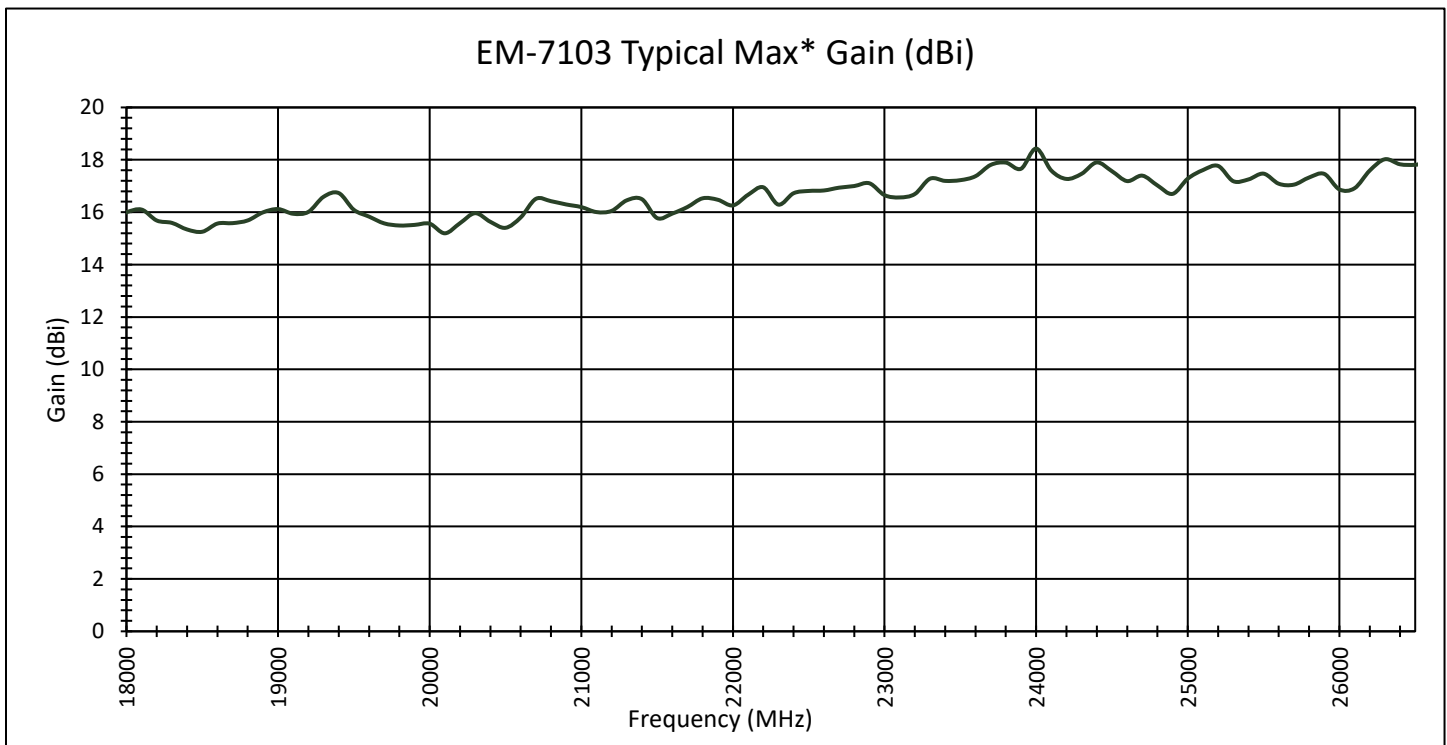
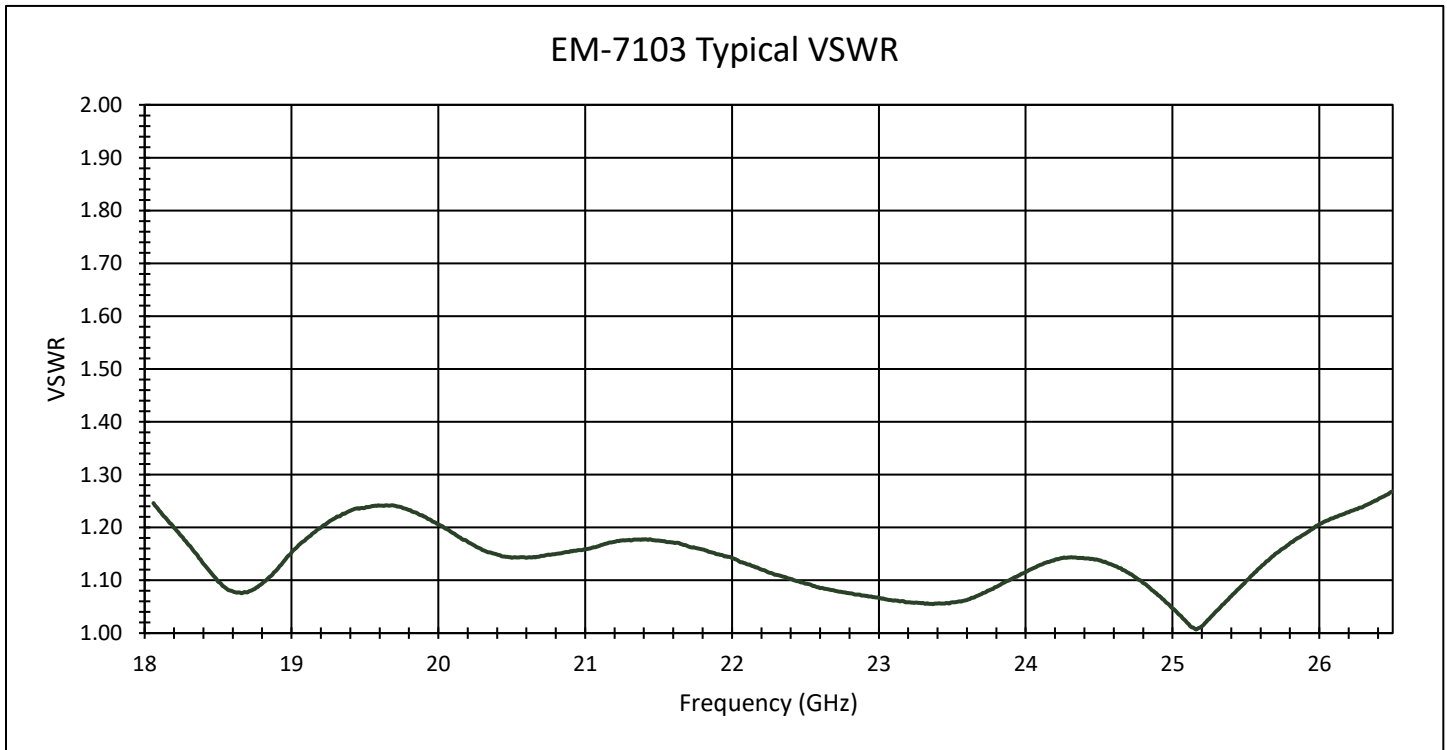
##### Color Options:

- Black (default)
- Custom colors available upon request

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## EM-7103 | Antenna, Standard Gain Horn, Passive, Directional

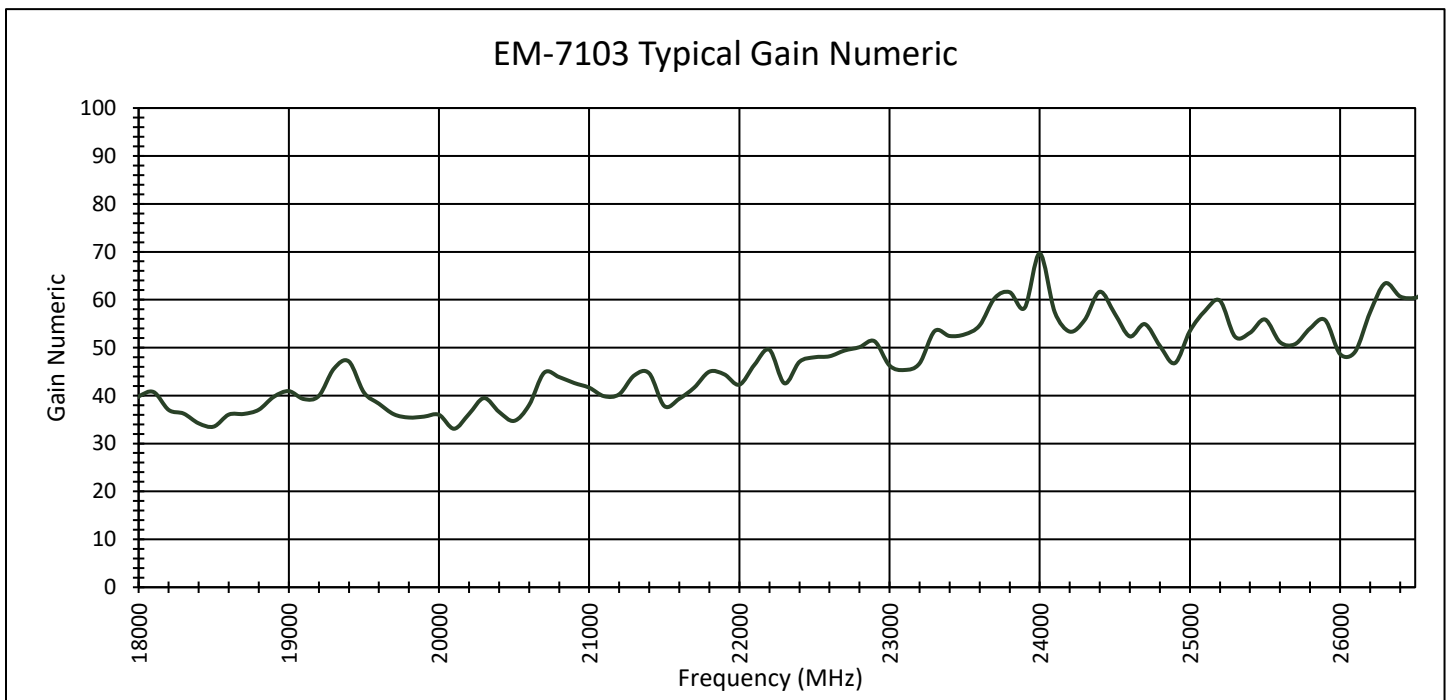
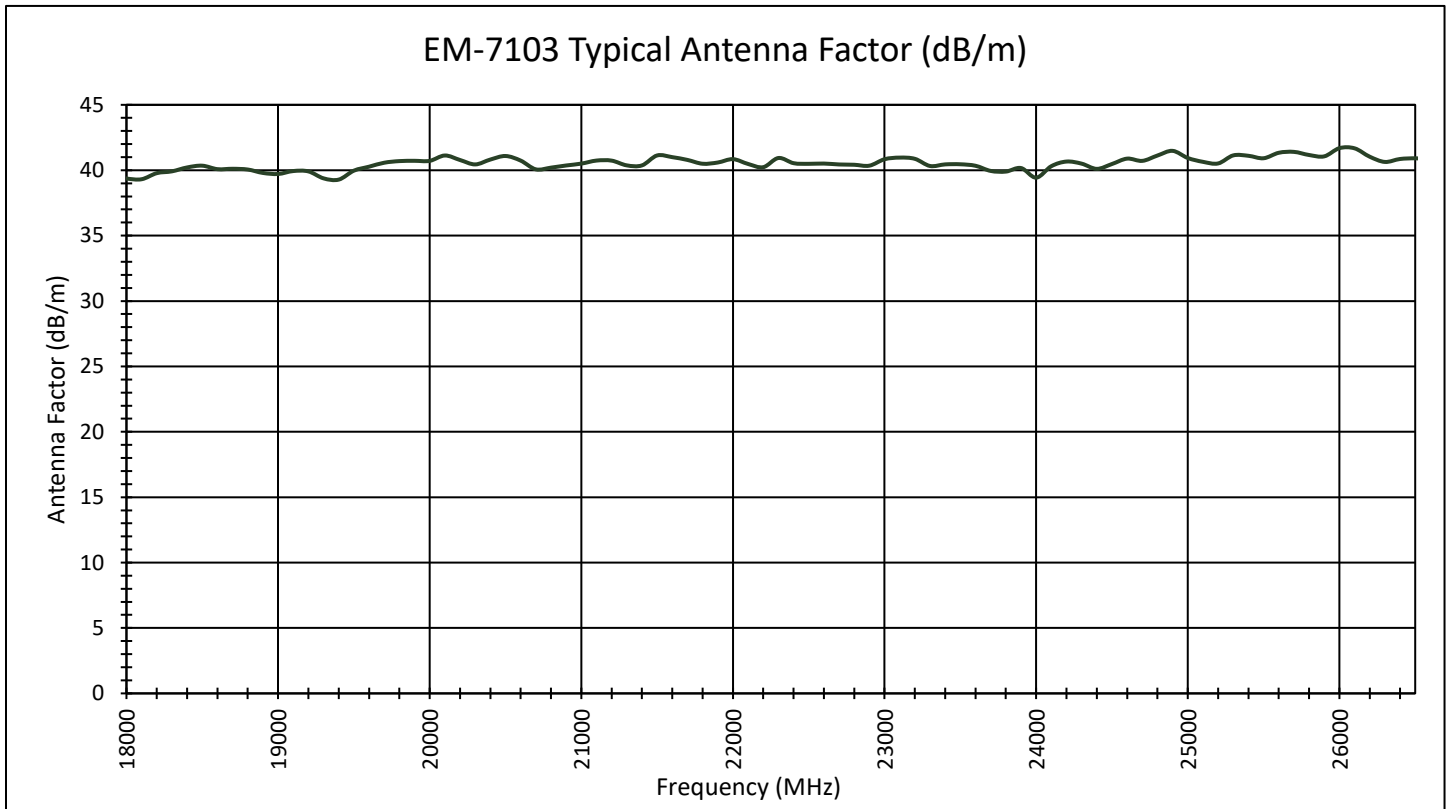


\*Maximum Gain determined from scans at all radiation angles and elevations. Data shown is typical, not guaranteed.

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## EM-7103 | Antenna, Standard Gain Horn, Passive, Directional

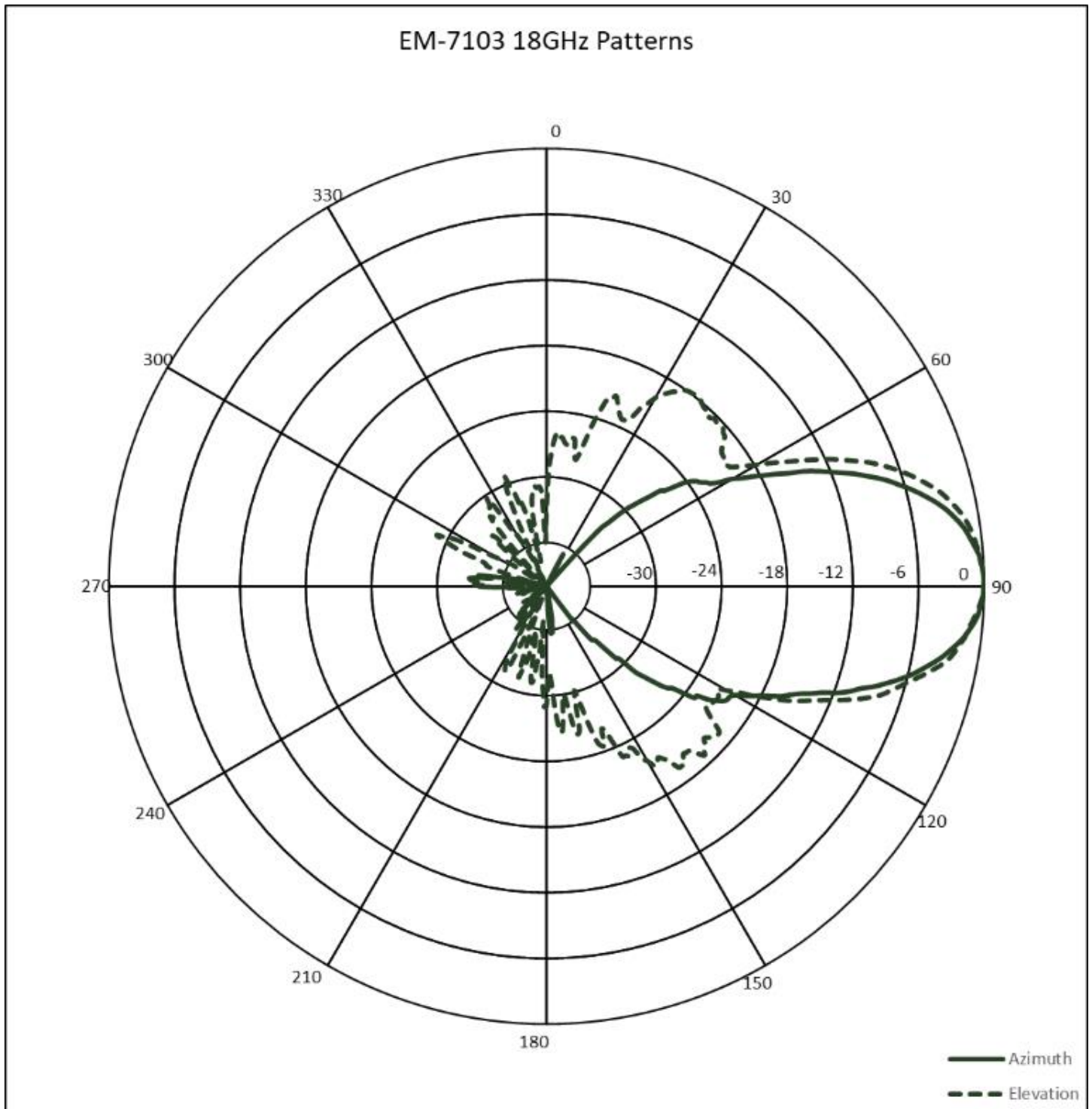


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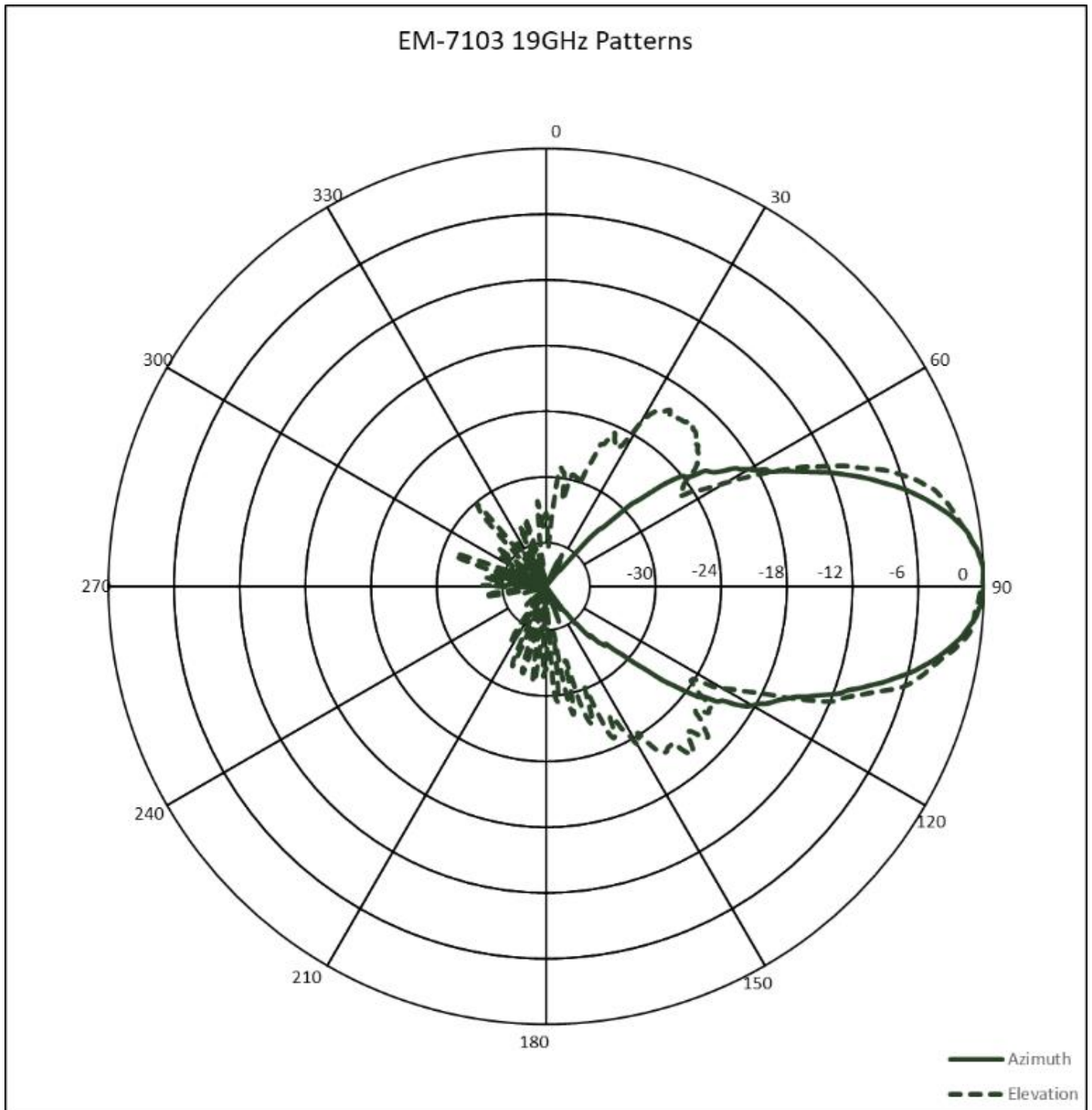
Scale: 6dB/Division.

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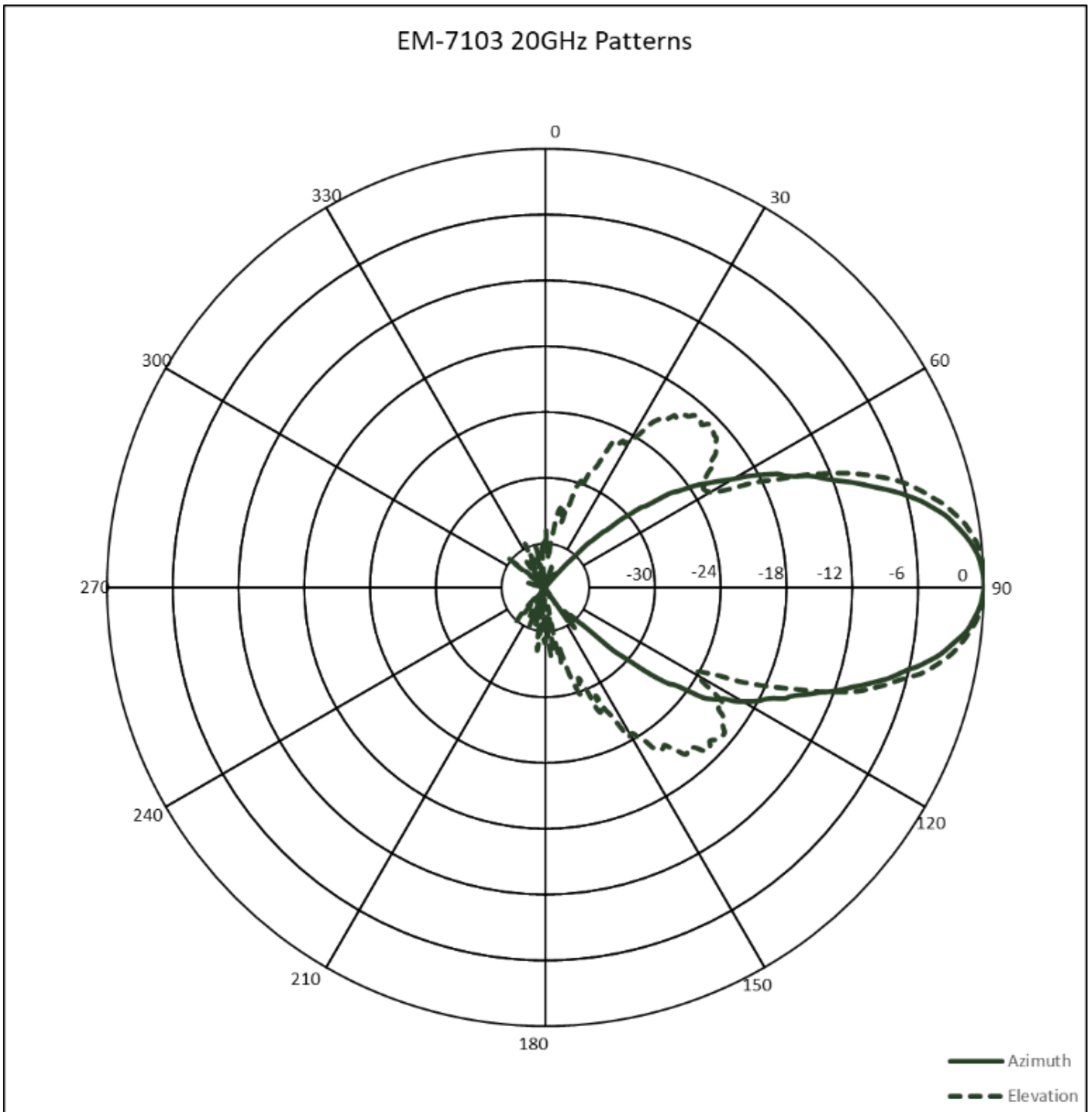
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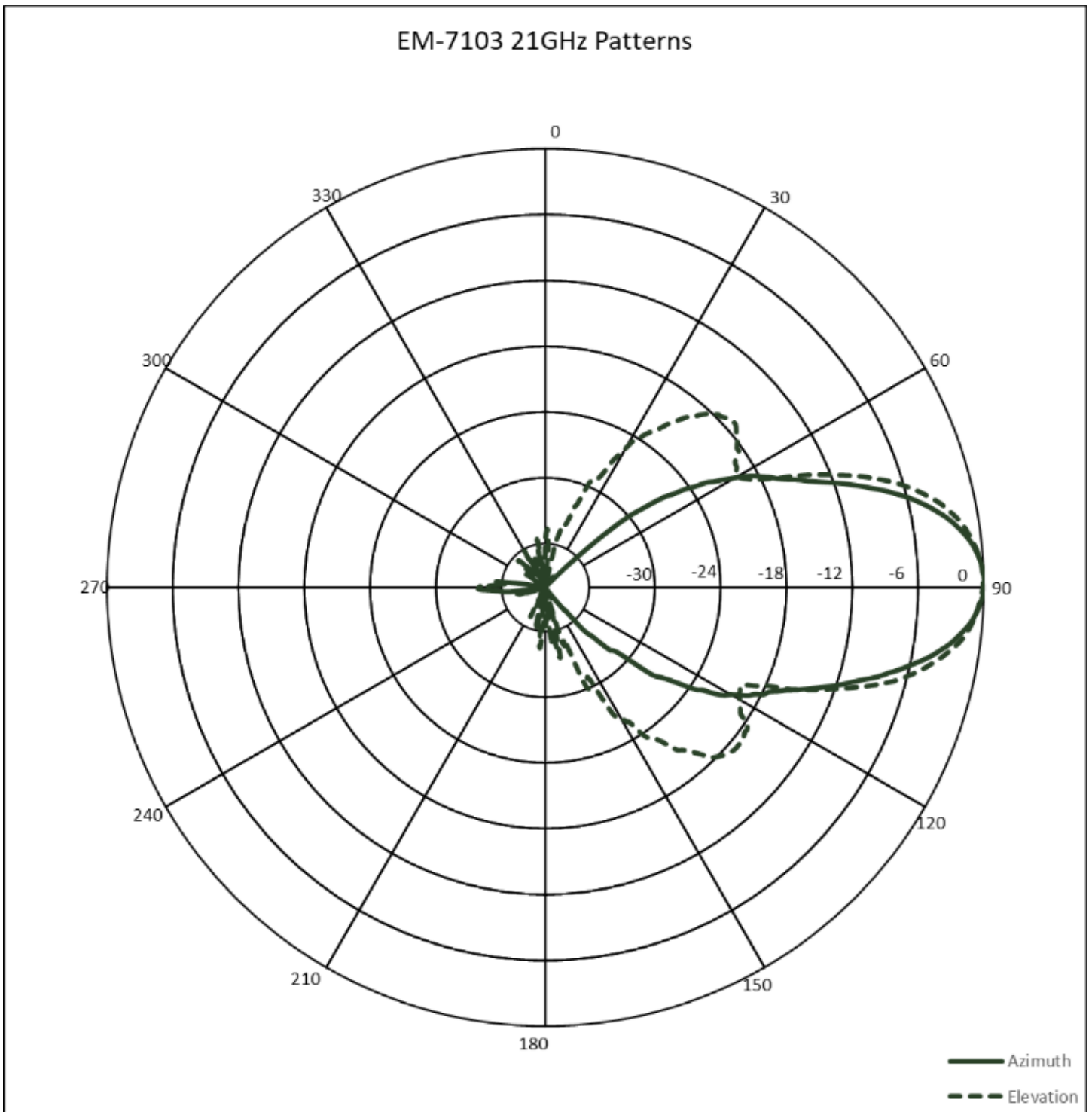
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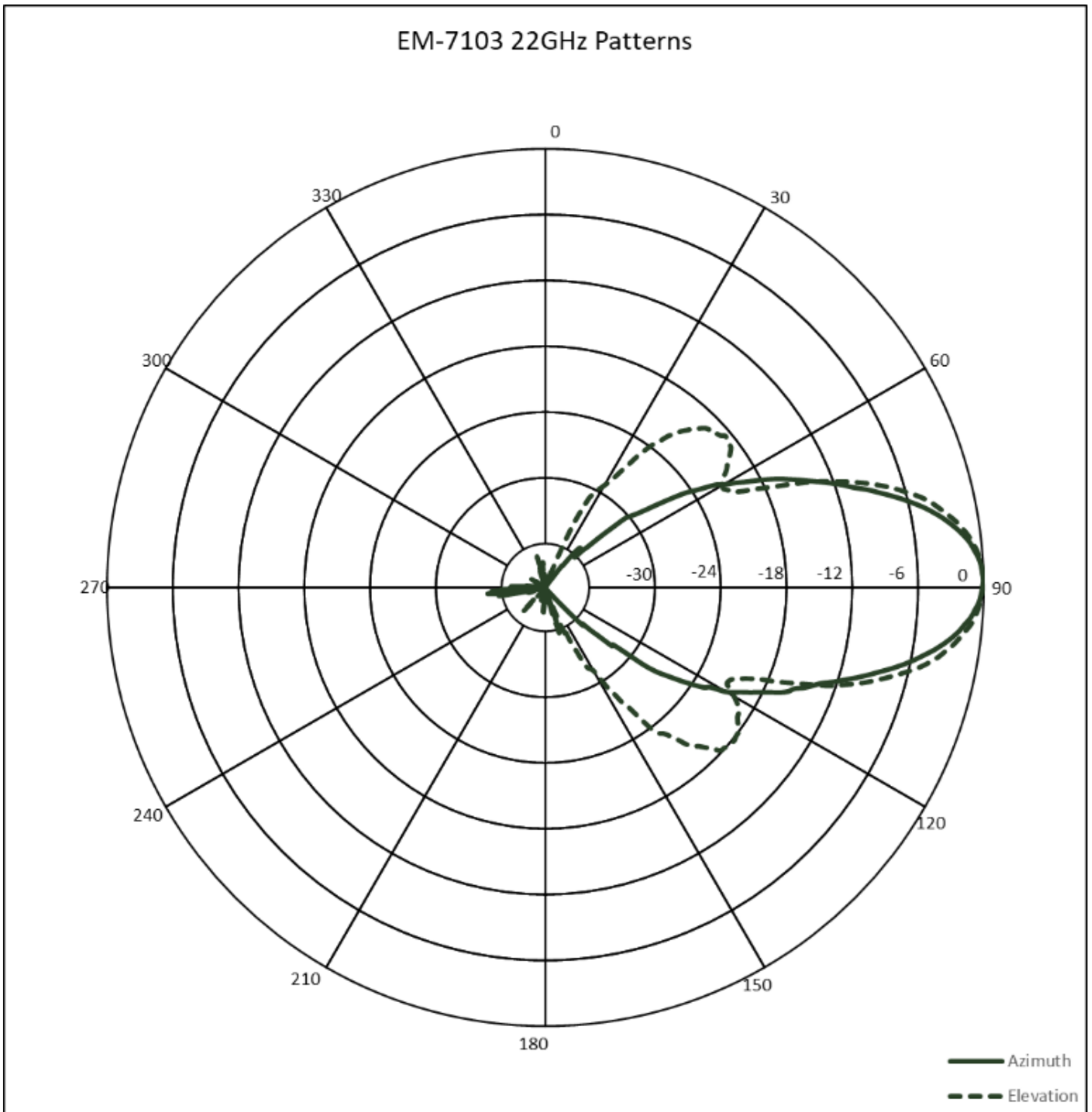
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**EM-7103 | Antenna, Standard Gain Horn, Passive, Directional**



Scale: 6dB/Division.

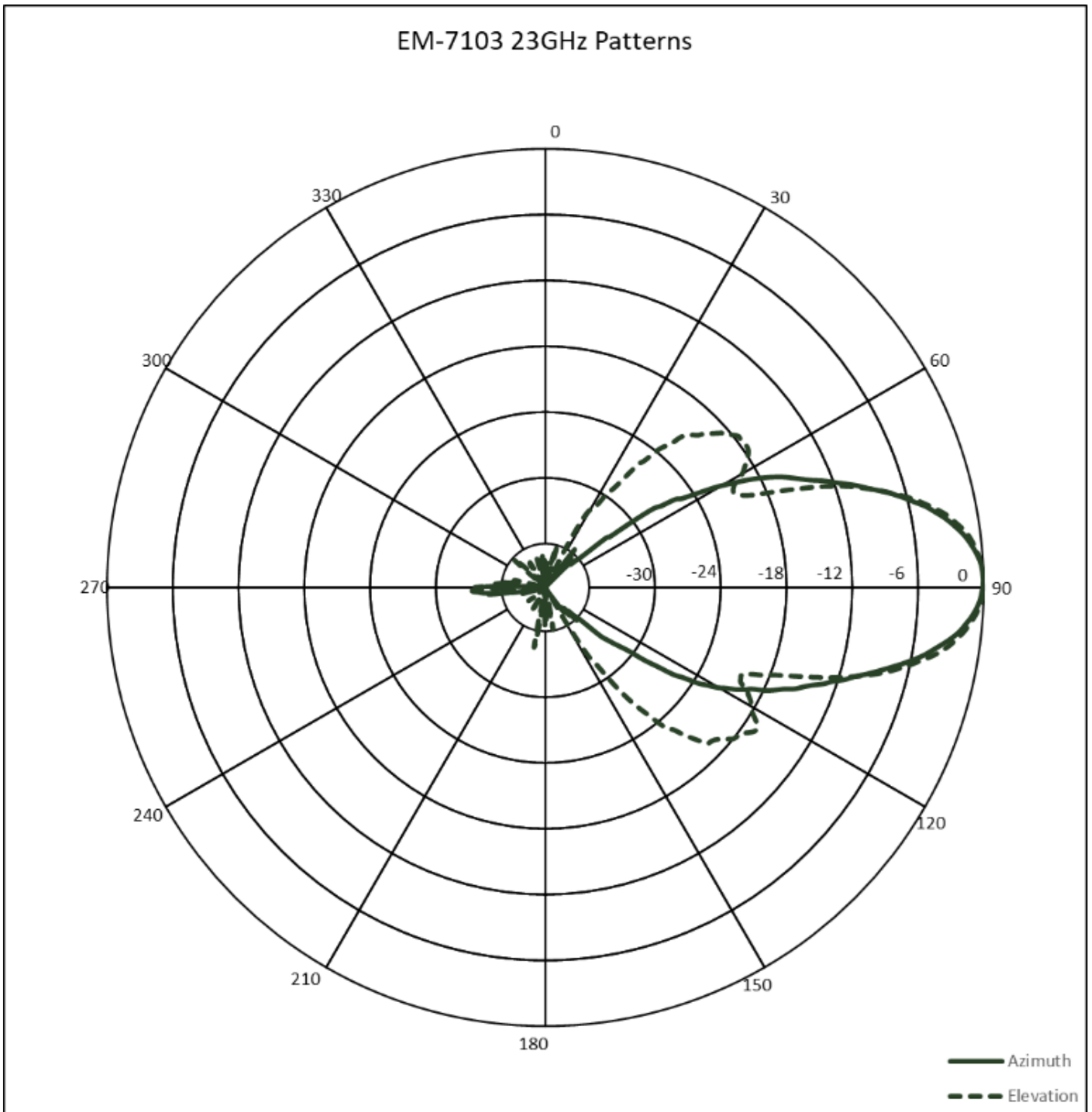
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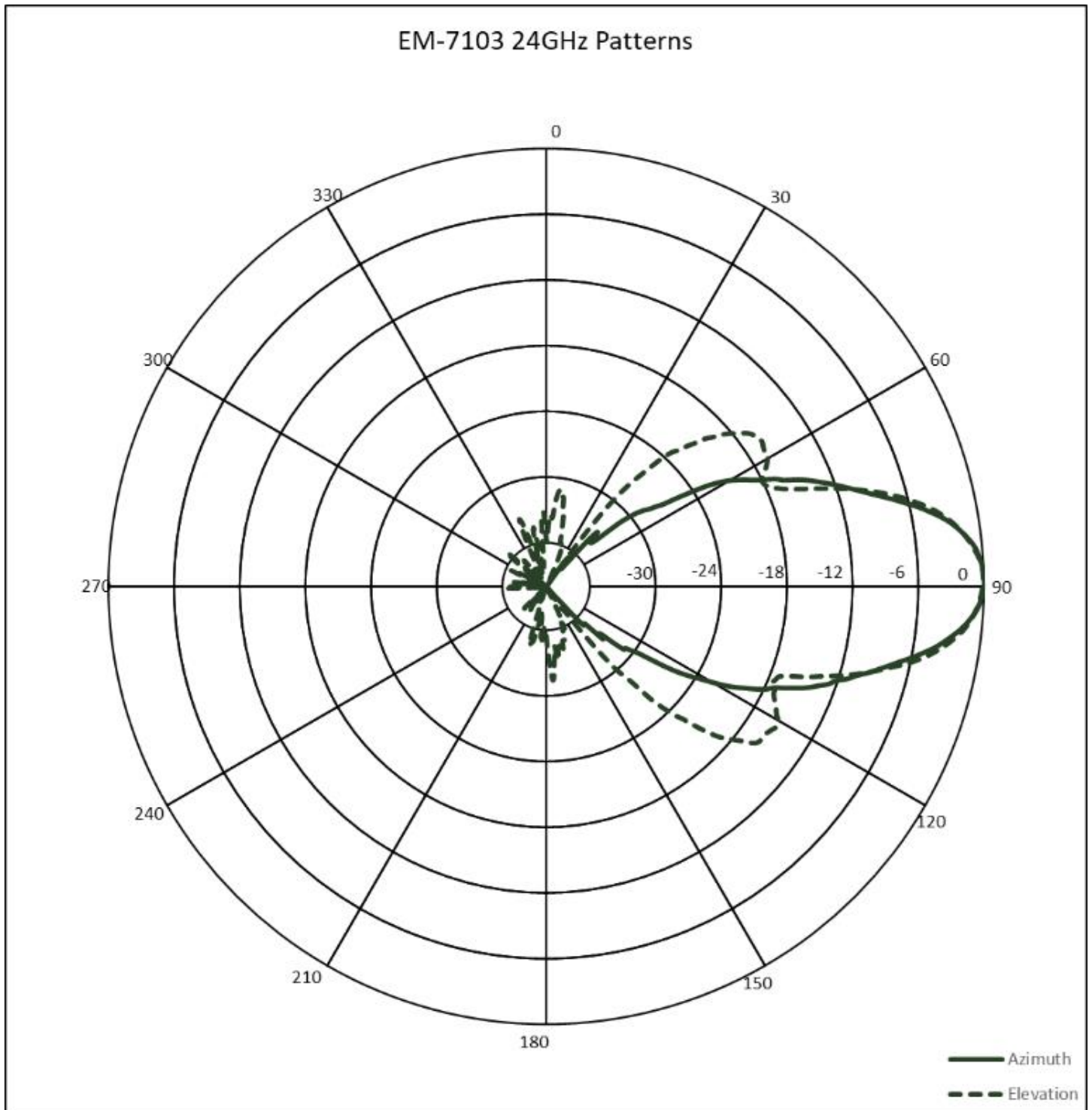
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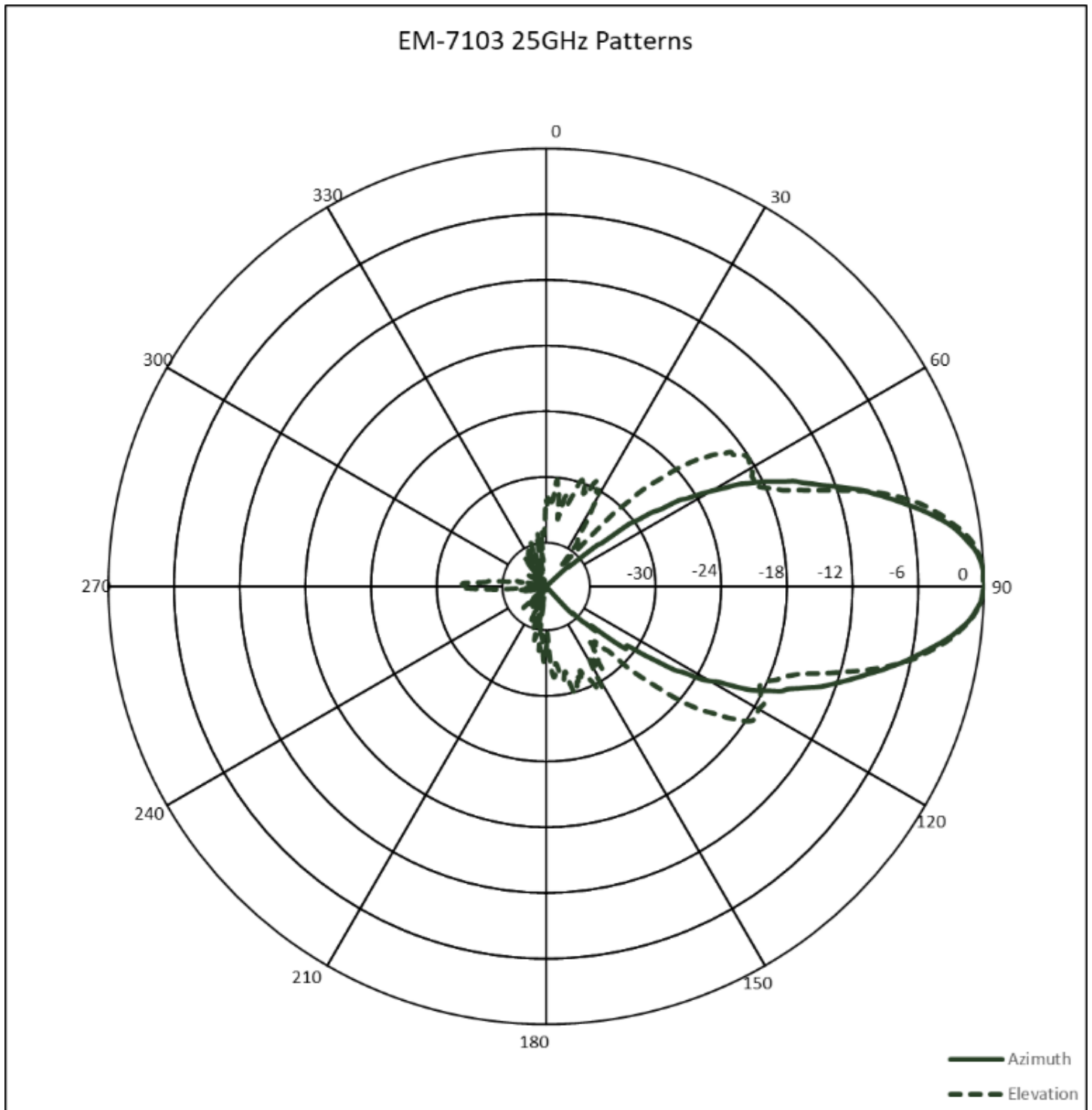
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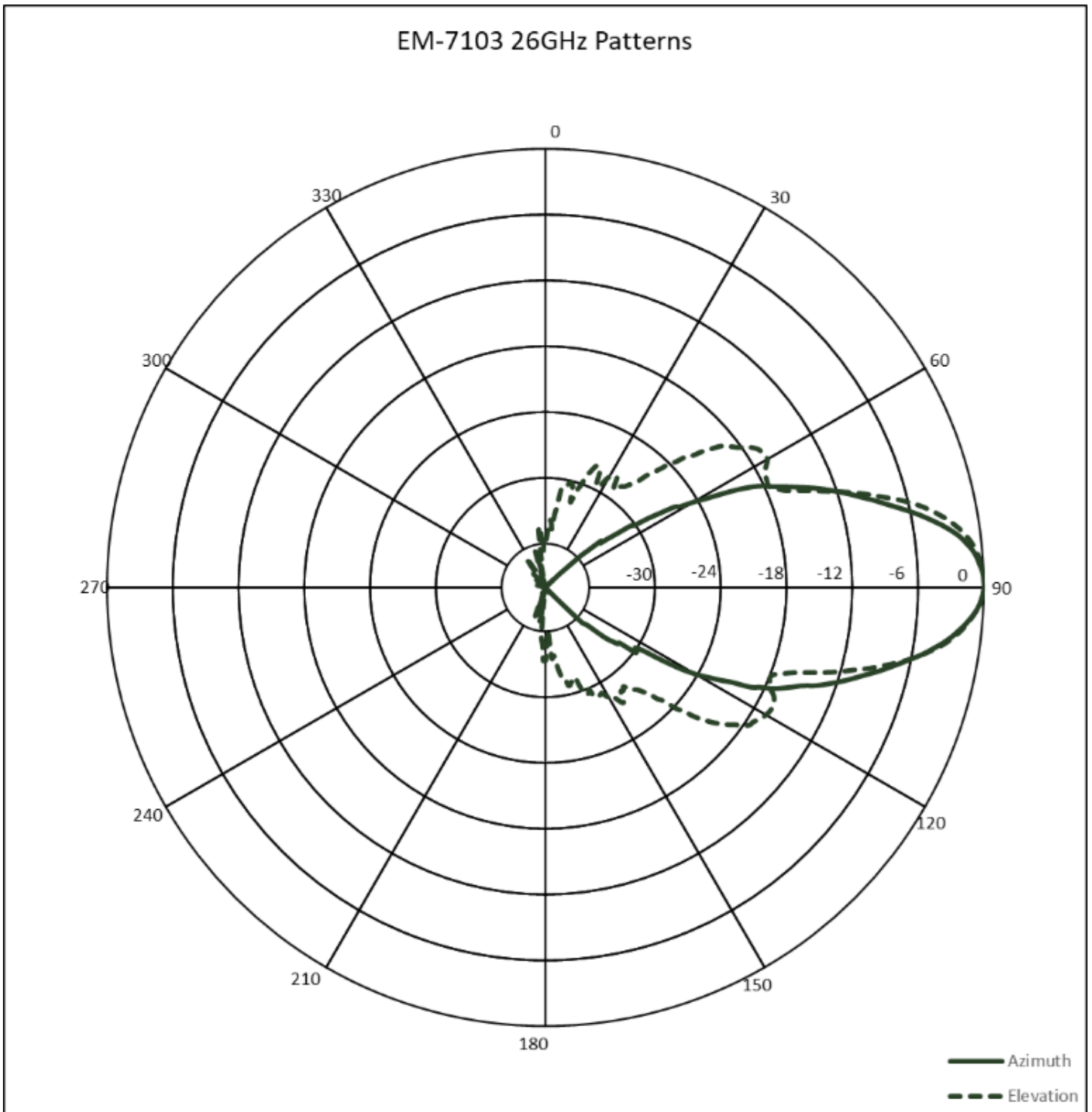
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