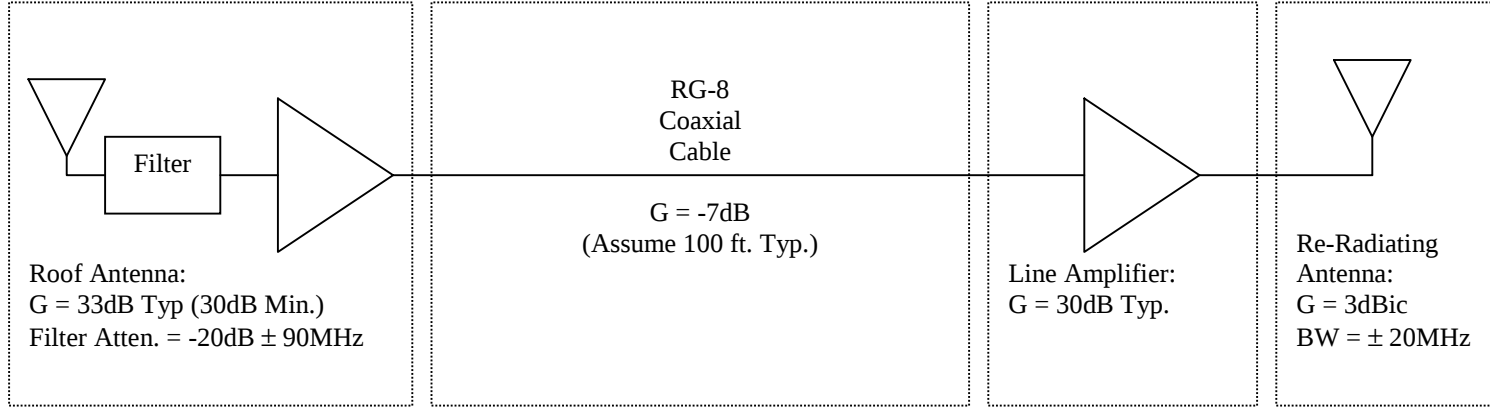


GPS SOURCE REPEATER KIT RADIATED POWER (L1 Only)

$P_{\text{REC}} = -157.5 \text{ dBW}$ (average received power)
 $F_{\text{REC}} = 1575.42 \text{ MHz}$

$P_{\text{RE-RAD}} = -101.5 \text{ dBW}$
 $F_{\text{RE-RAD}} = 1575.42 \text{ MHz}$



$$P_{\text{dBW}} = 10\text{Log}_{10} (P_{\text{WATTS}})$$

$$P_{\text{WATTS}} = 10^{(P_{\text{dBW}}/10)}$$

$$P_{\text{RE_RAD,WATTS}} = 10^{(-101.5/10)} = 71 \text{ picoWatts}$$

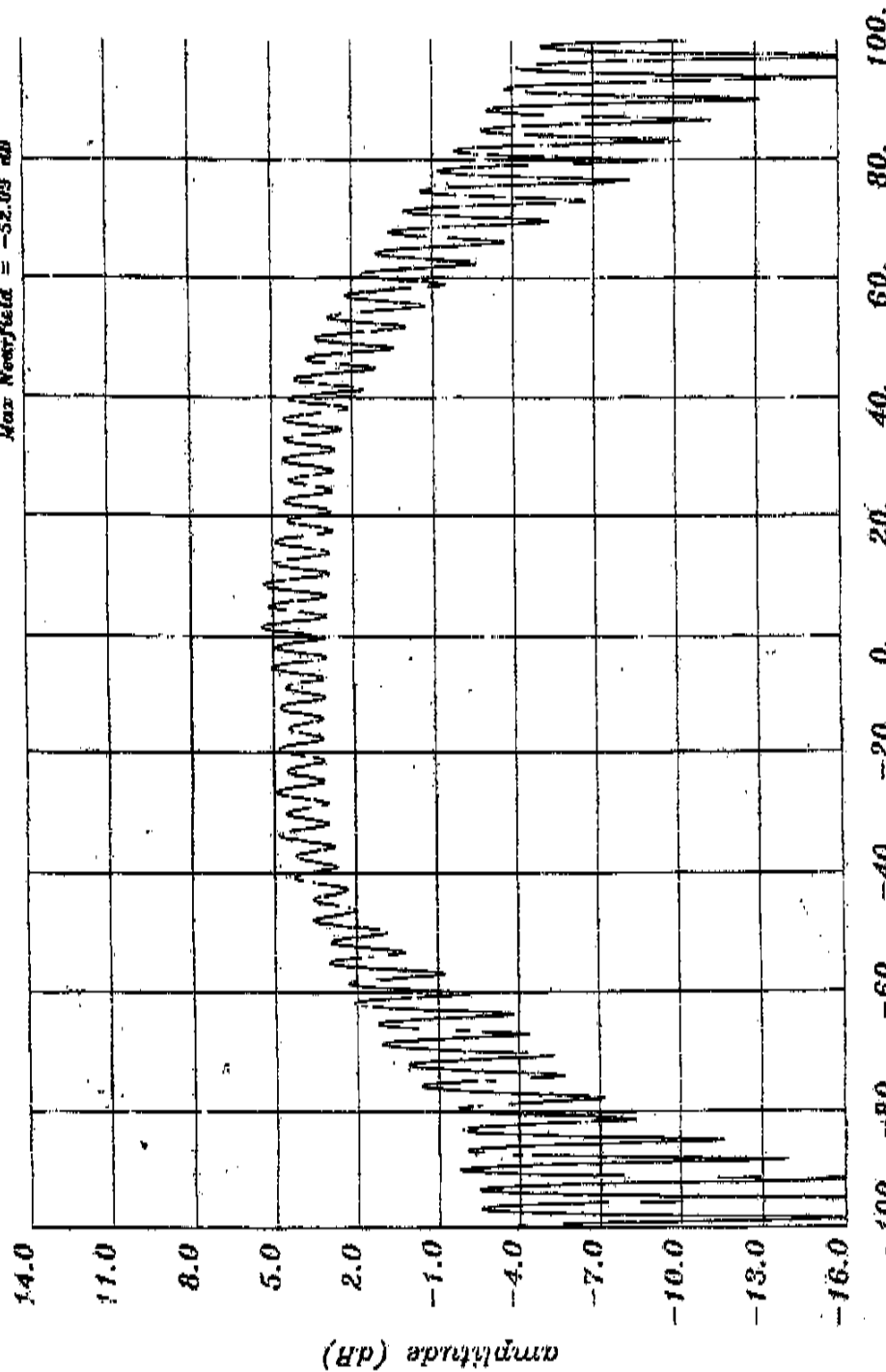
(Sufficient for indoor, Line-of-Sight Operation Only)

near-field amplitude

LITE v2.2.6d 1/10/97
pol 1 Ynu=9.000

GPS-P1P

File: P2P-5.DAT 2/ 6/2 14:56:54
Frequency: 1.575 GHz
Z distance: 3.500 m, wave = 0.203 m
Max Nearfield = -52.03 dB

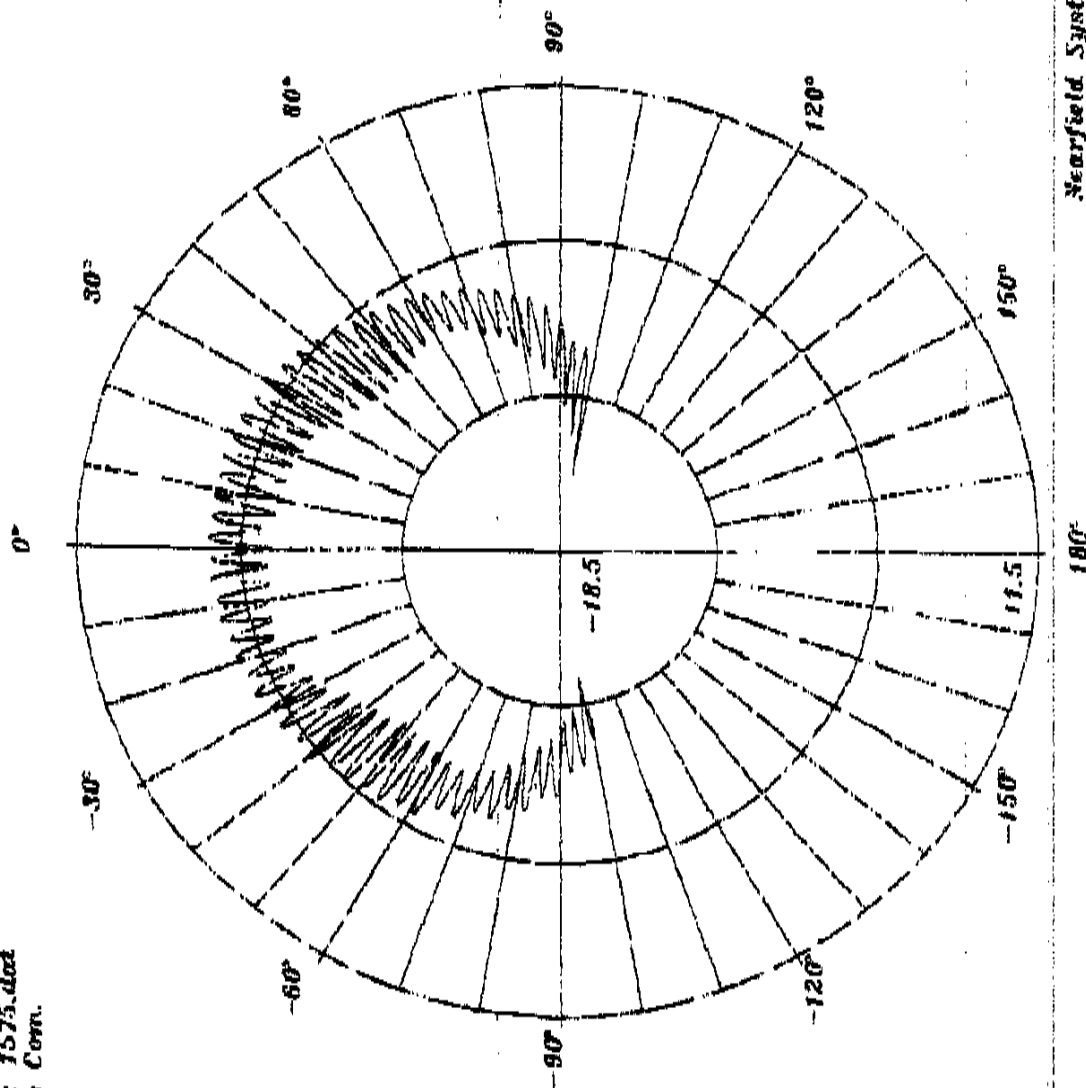


Az axis (deg)

Axis
Az max(deg) 200.000
PN (deg) 1.000
No. ports 1
Az axis coord. path 30.000 deg/s

Polar plot

File: 1575.dad
Atlas Com.



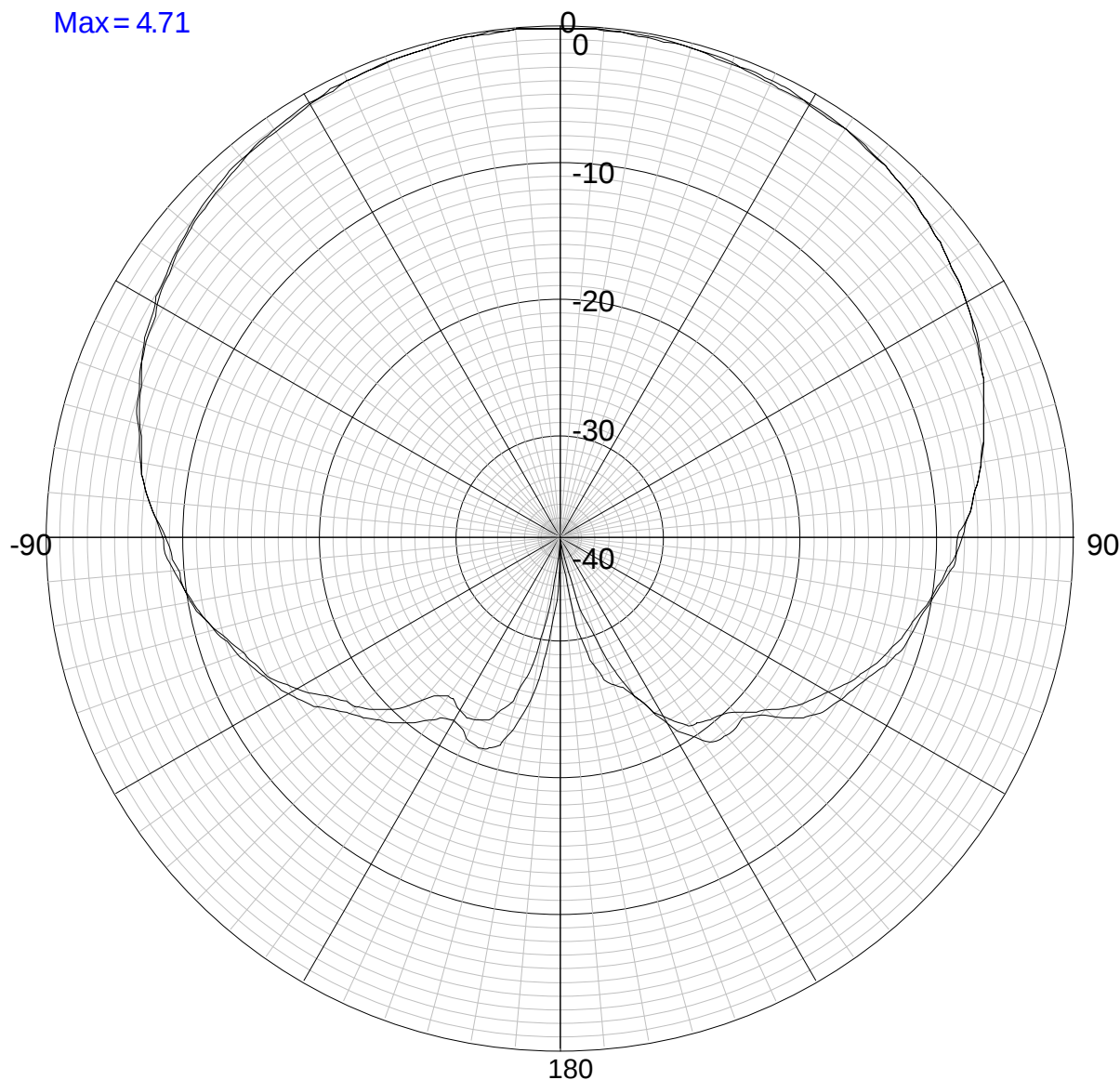
Nearfield Systems Inc.
4/10/2 09:07:22

Radiation Pattern of L1/L2 GPS Antenna: E/H Elevation Cuts @ 1.575 GHz on 3.5" Dia. Ground Plane

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Co-Pol - Amp

Max = 4.71





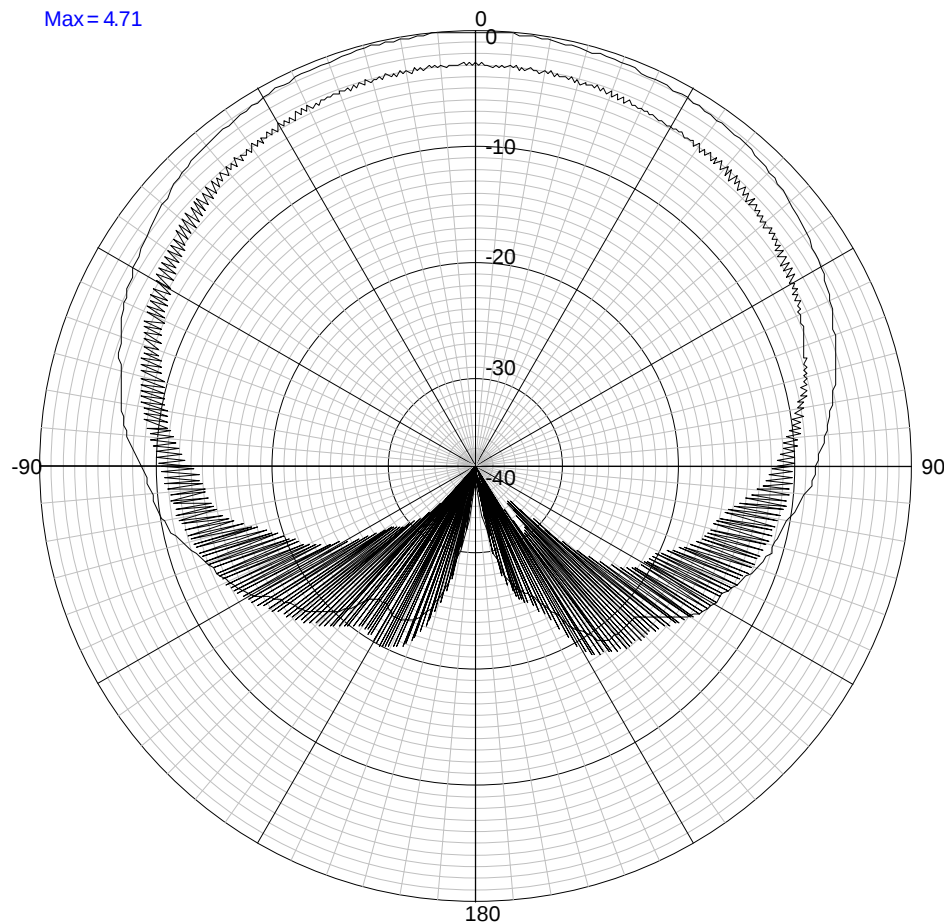
Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Elevation Cuts @ 1.575 GHz on 3.5 “ Dia. Ground Plane



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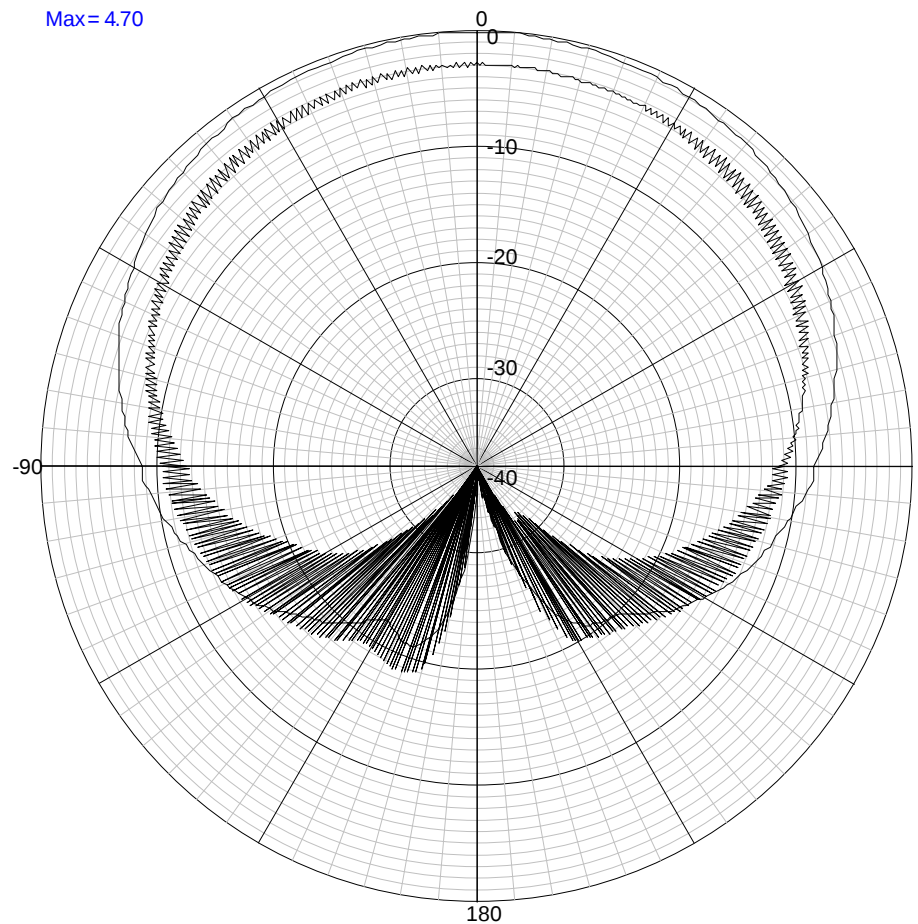
Rotating Linear (E-Cut)

Max = 4.71



Rotating Linear (H-Cut)

Max = 4.70

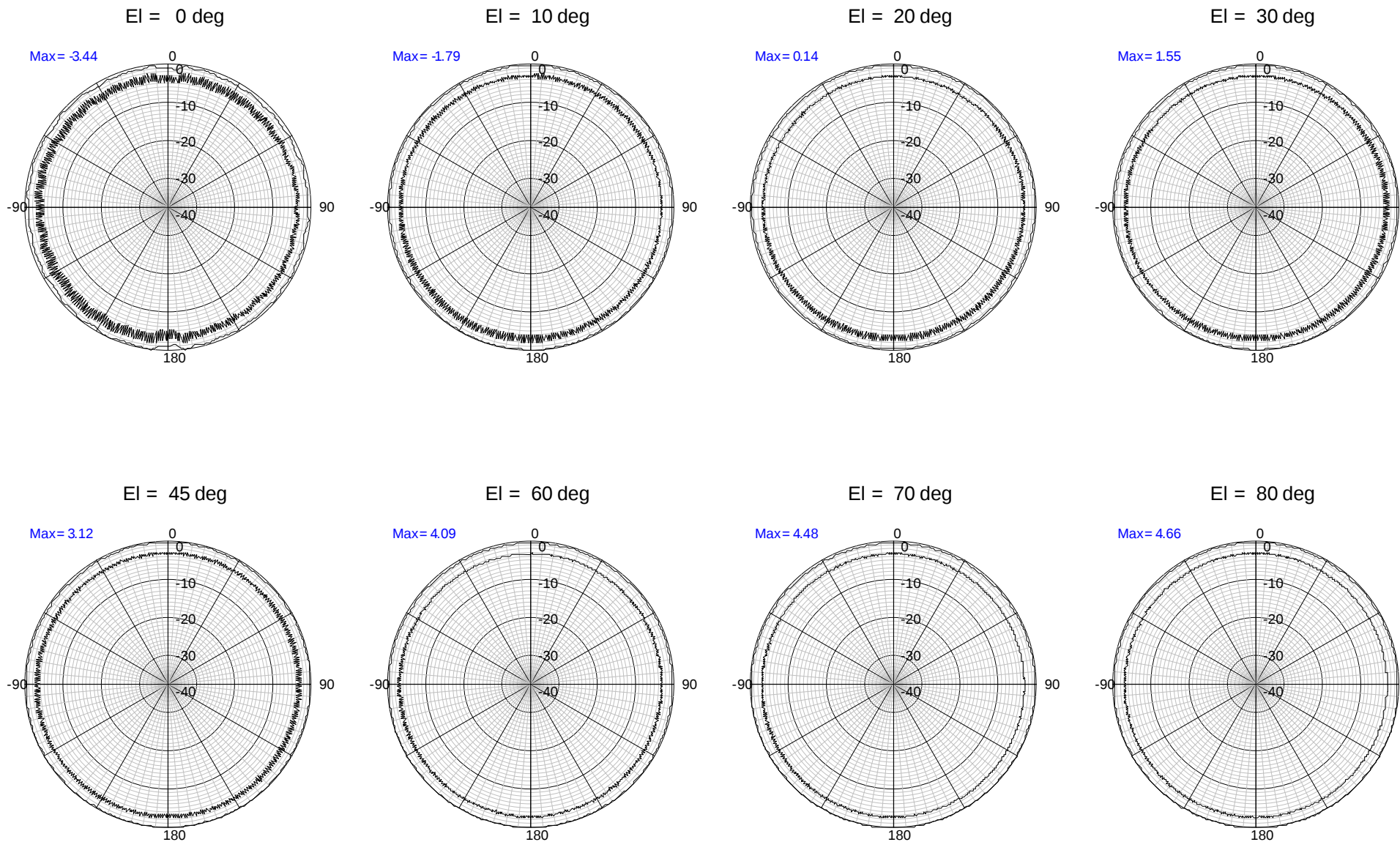




Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Azimuth Cuts @ 1.575 GHz on 3.5" Dia. Ground Plane



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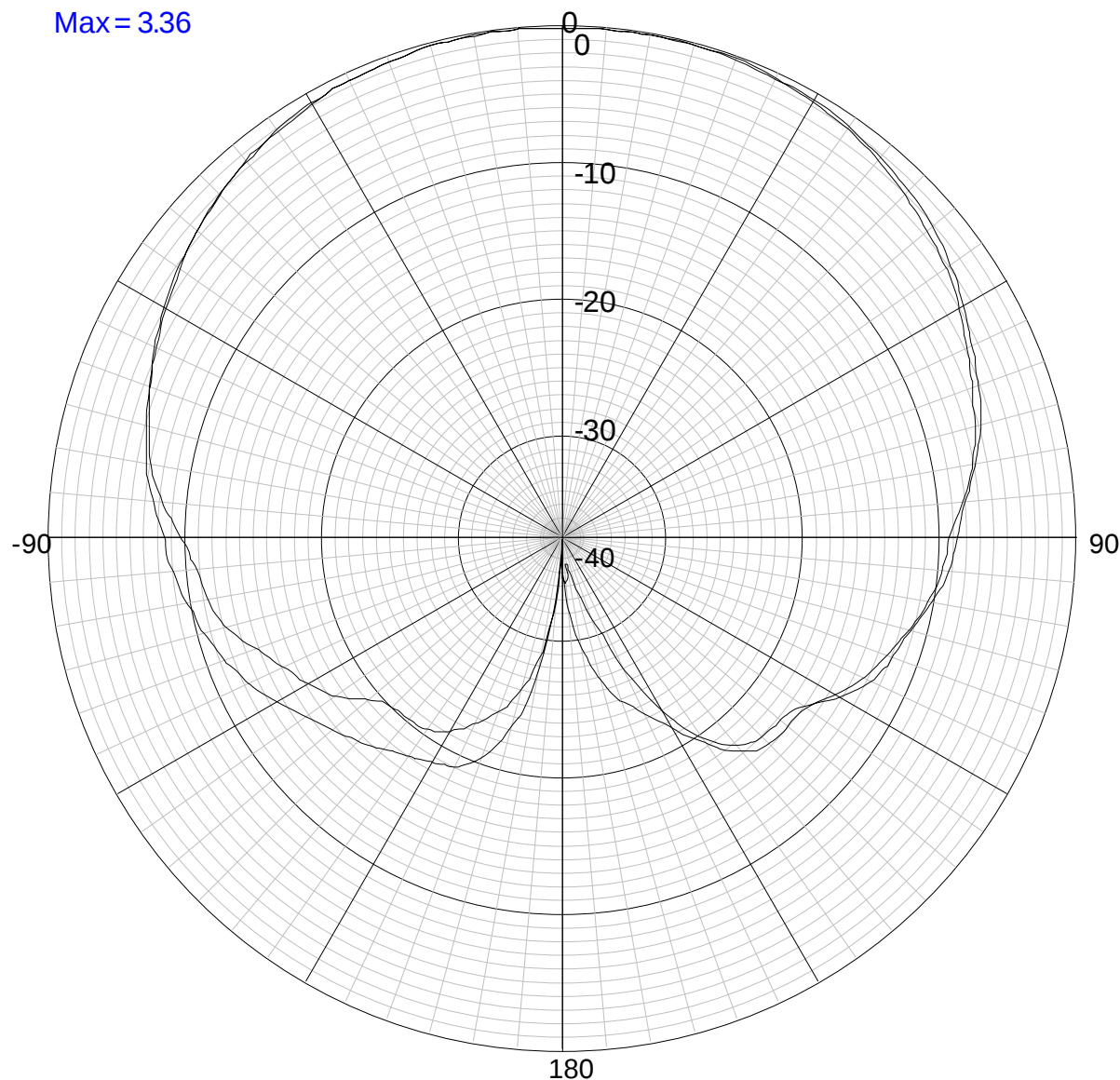


Radiation Pattern of L1/L2 GPS Antenna: E/H Elevation Cuts @ 1.227 GHz on 3.5" Dia. Ground Plane

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Co-Pol - Amp

Max = 3.36





Radiation Pattern of L1/L2 GPS Antenna:

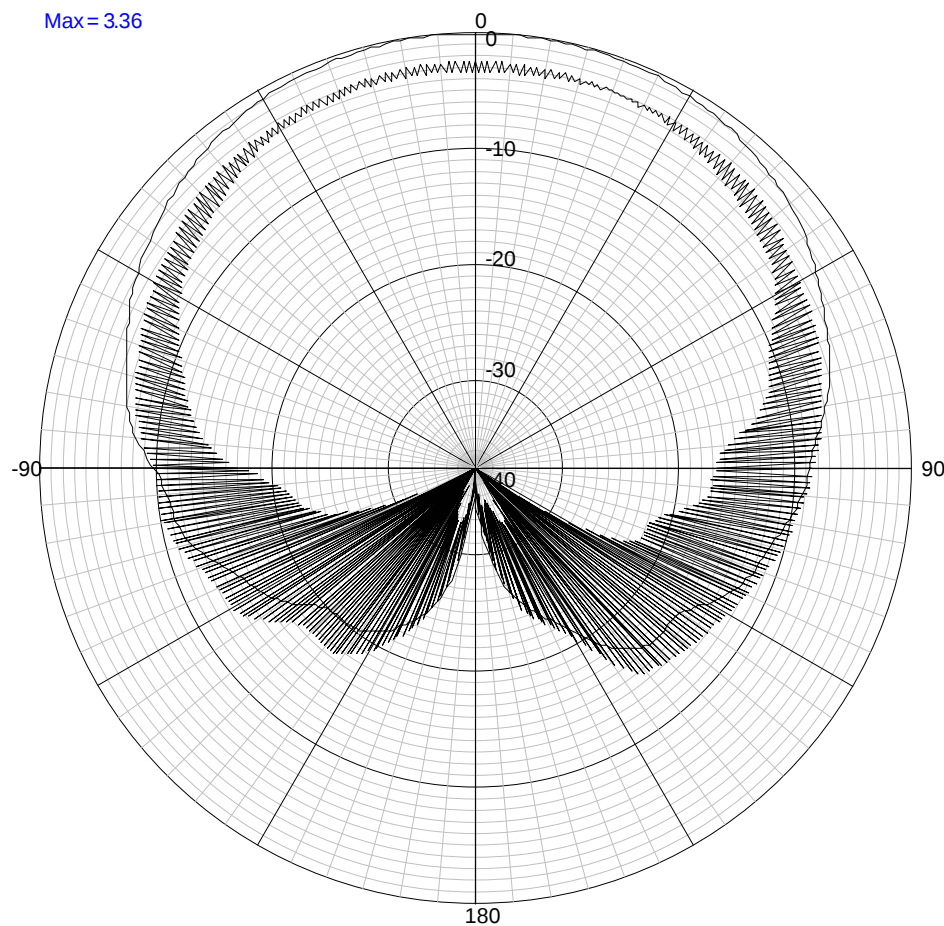
Gain And Axial Ratio Elevation Cuts @ 1.227 GHz on 3.5" Dia. Ground Plane



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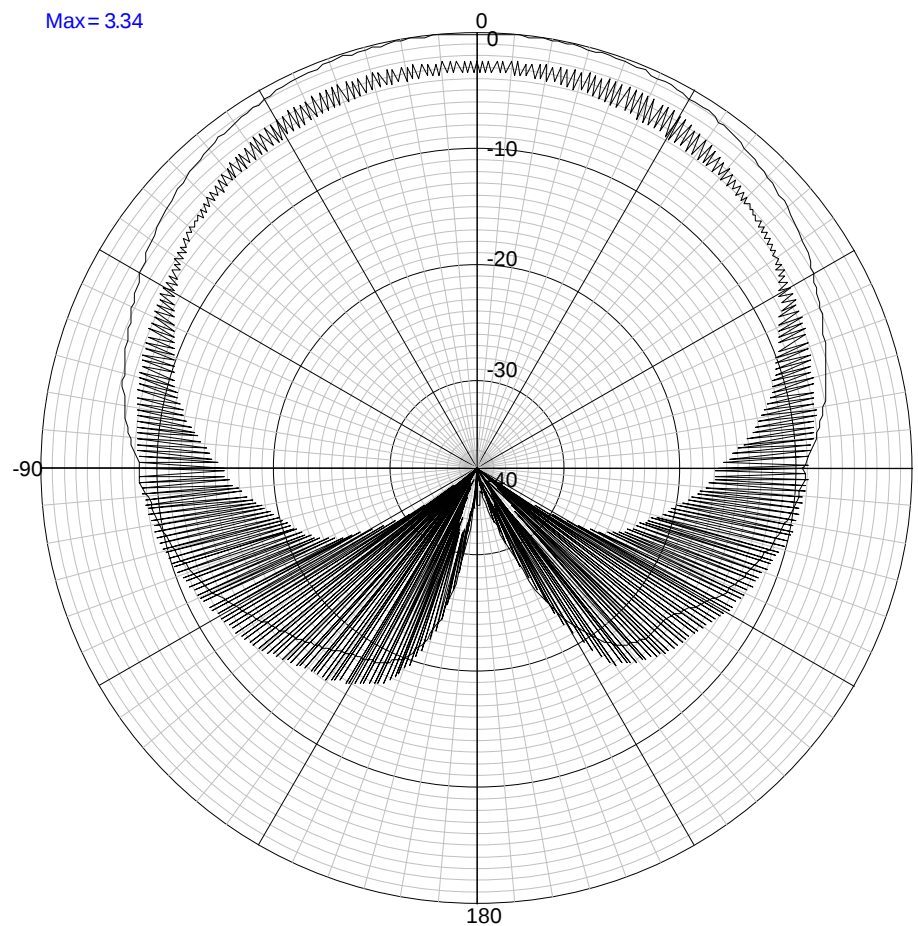
Rotating Linear (E-Cut)

Max = 3.36



Rotating Linear (H-Cut)

Max = 3.34

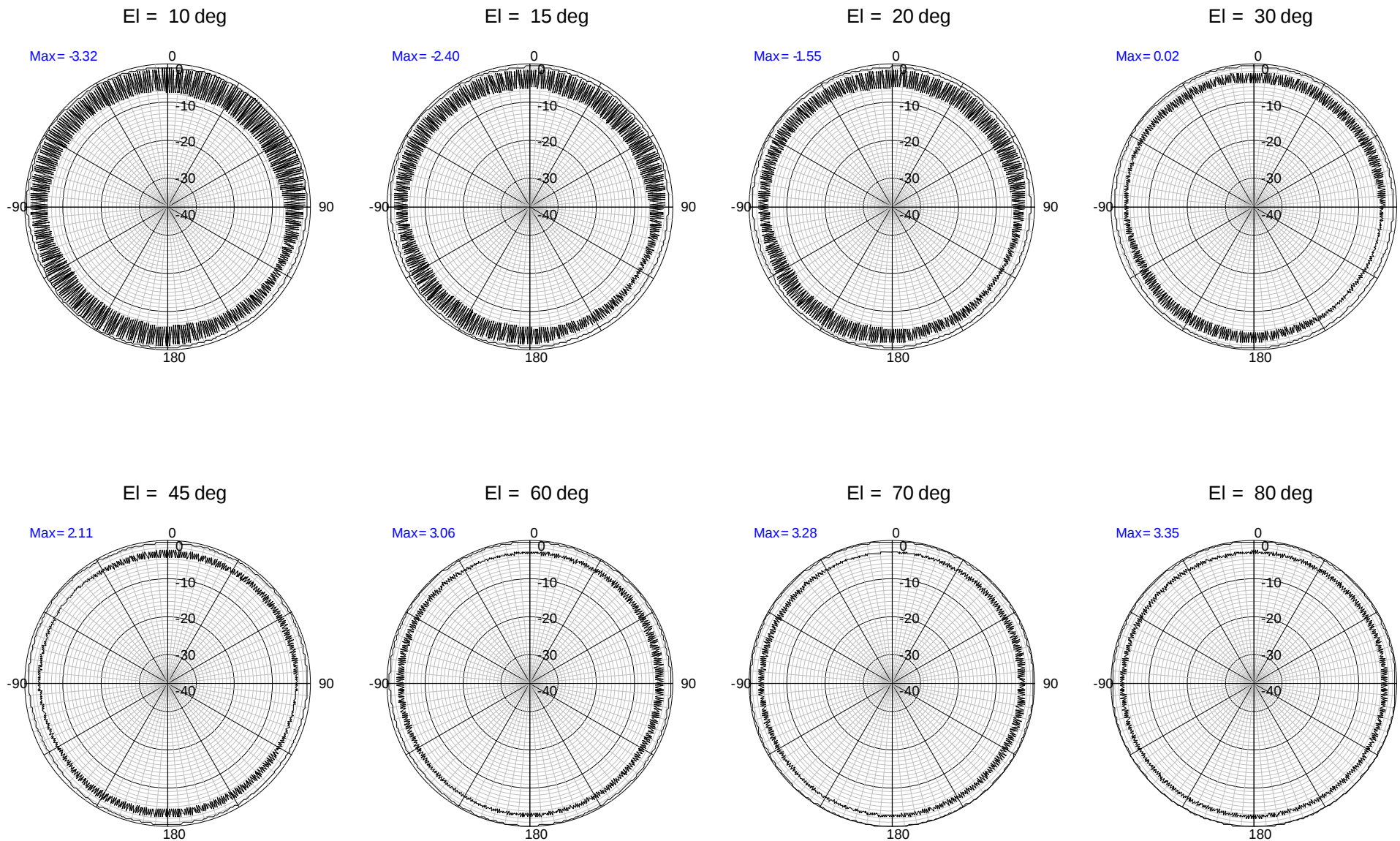




Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Azimuth Cuts @ 1.227 GHz on 3.5 " Dia. Ground Plane



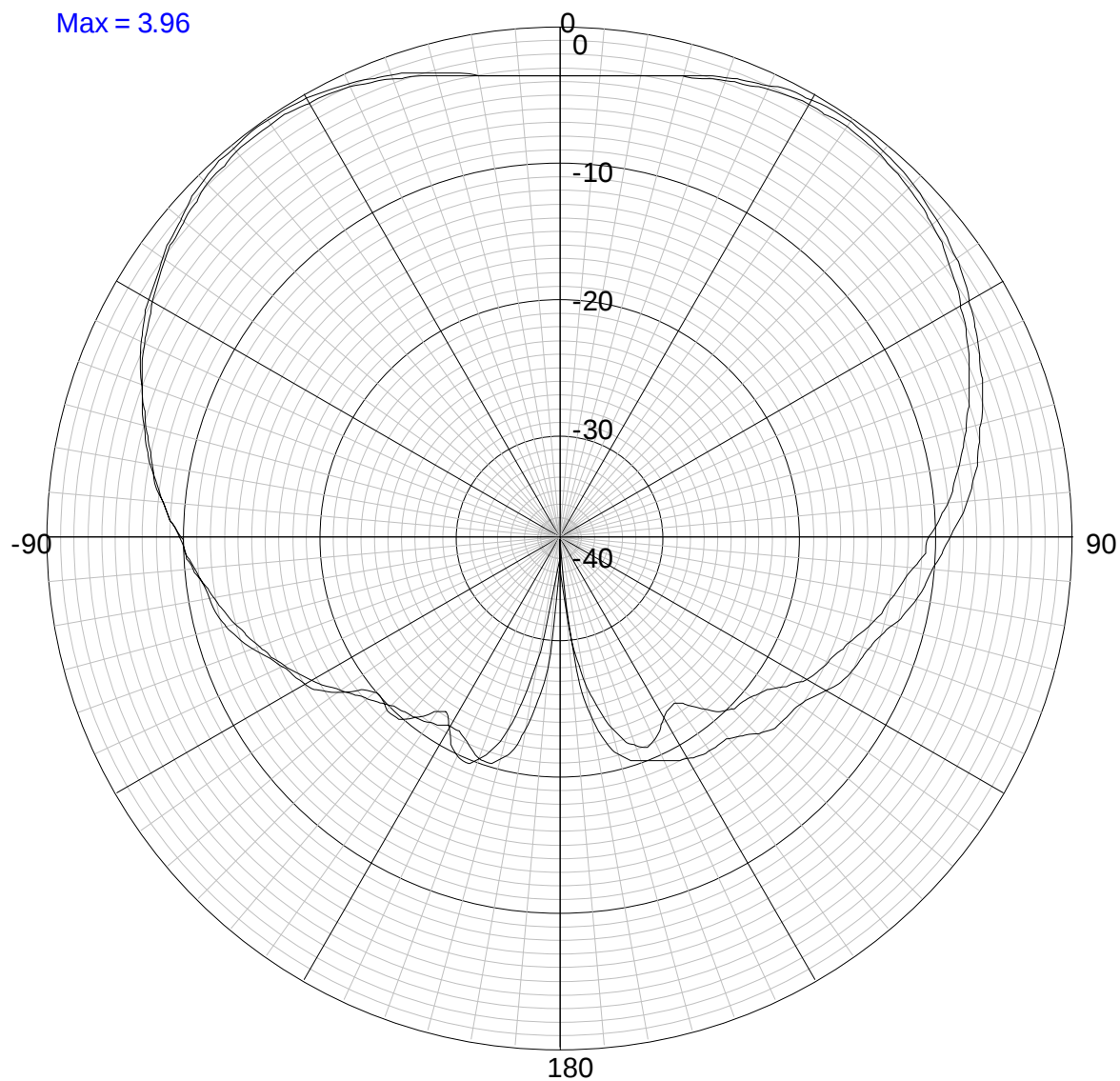
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Radiation Pattern of L1/L2 GPS Antenna: E/H Elevation Cuts @ 1.575 GHz on 16" Dia. Ground Plane

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Co-Pol- Amp

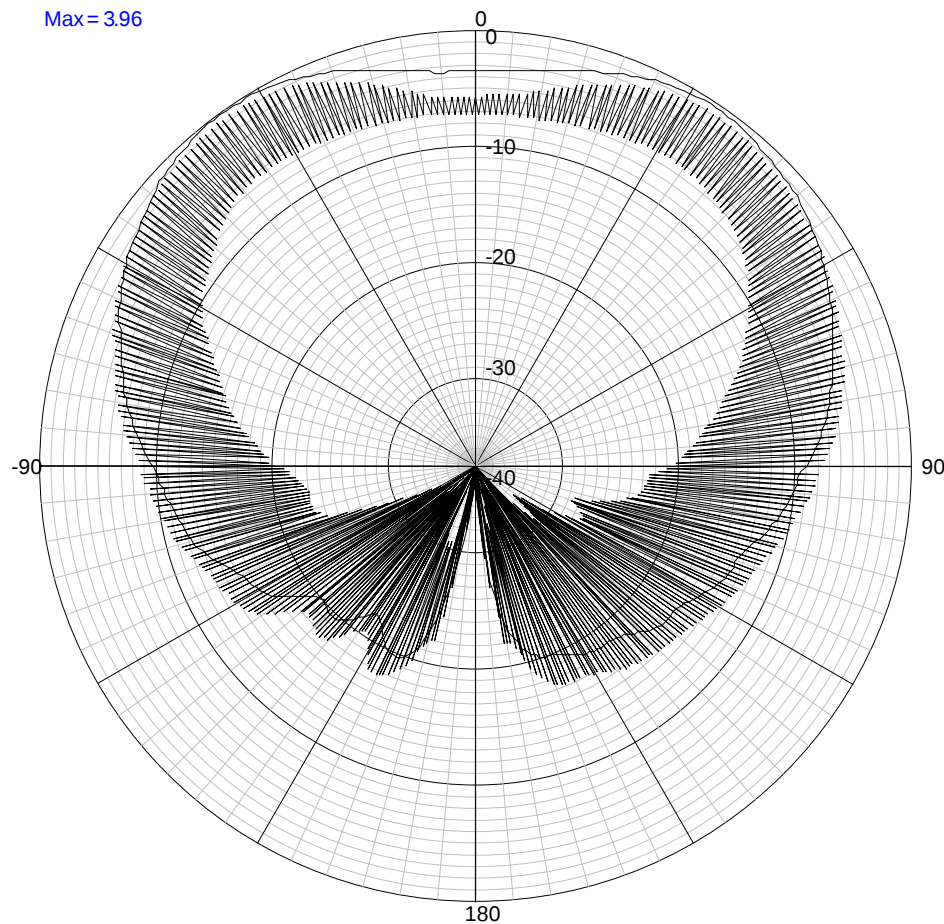


Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Elevation Cuts @ 1.575 GHz on 16" Dia. Ground Plane

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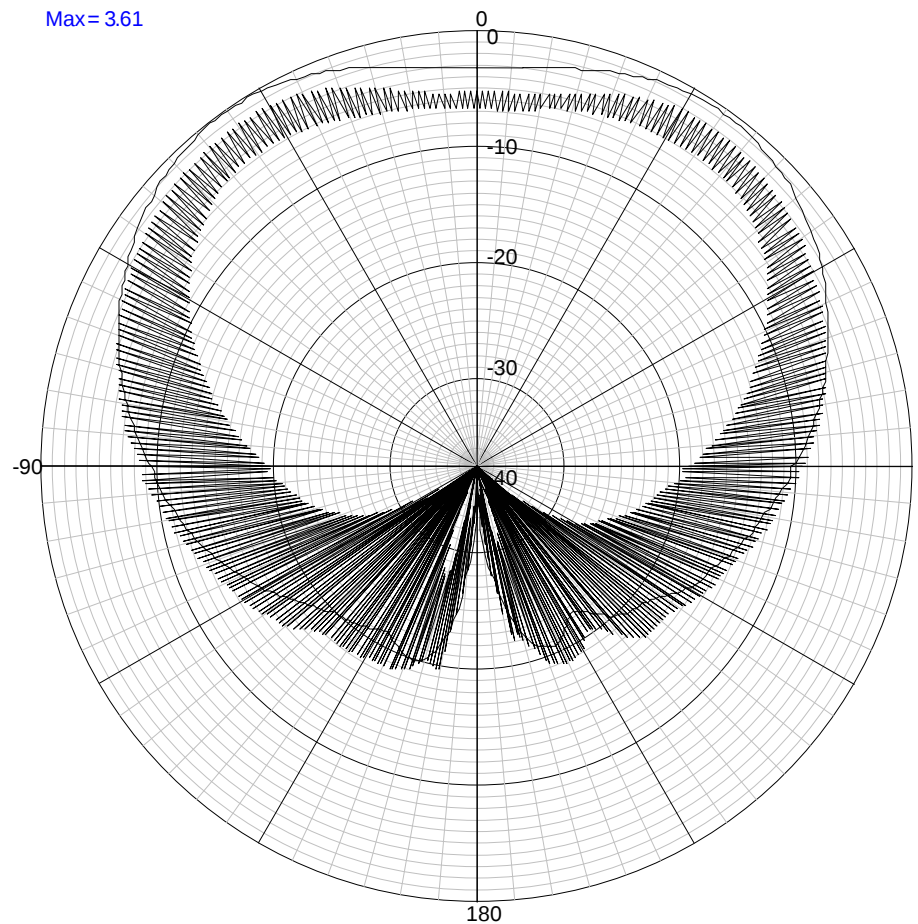
Rotating Linear (E-Cut)

Max = 3.96



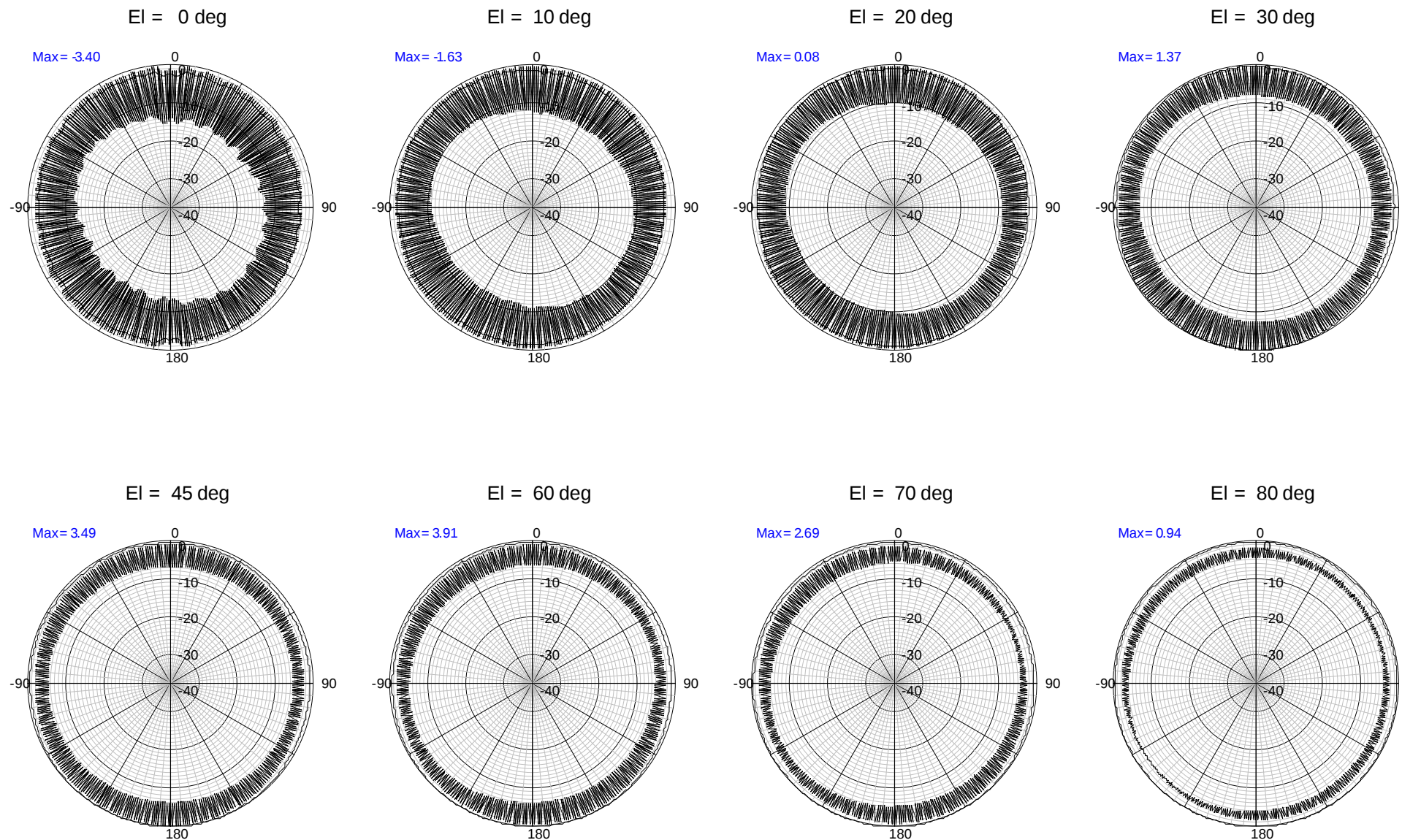
Rotating Linear (H-Cut)

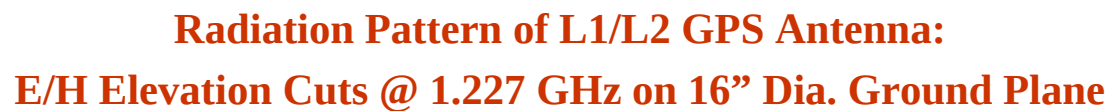
Max = 3.61



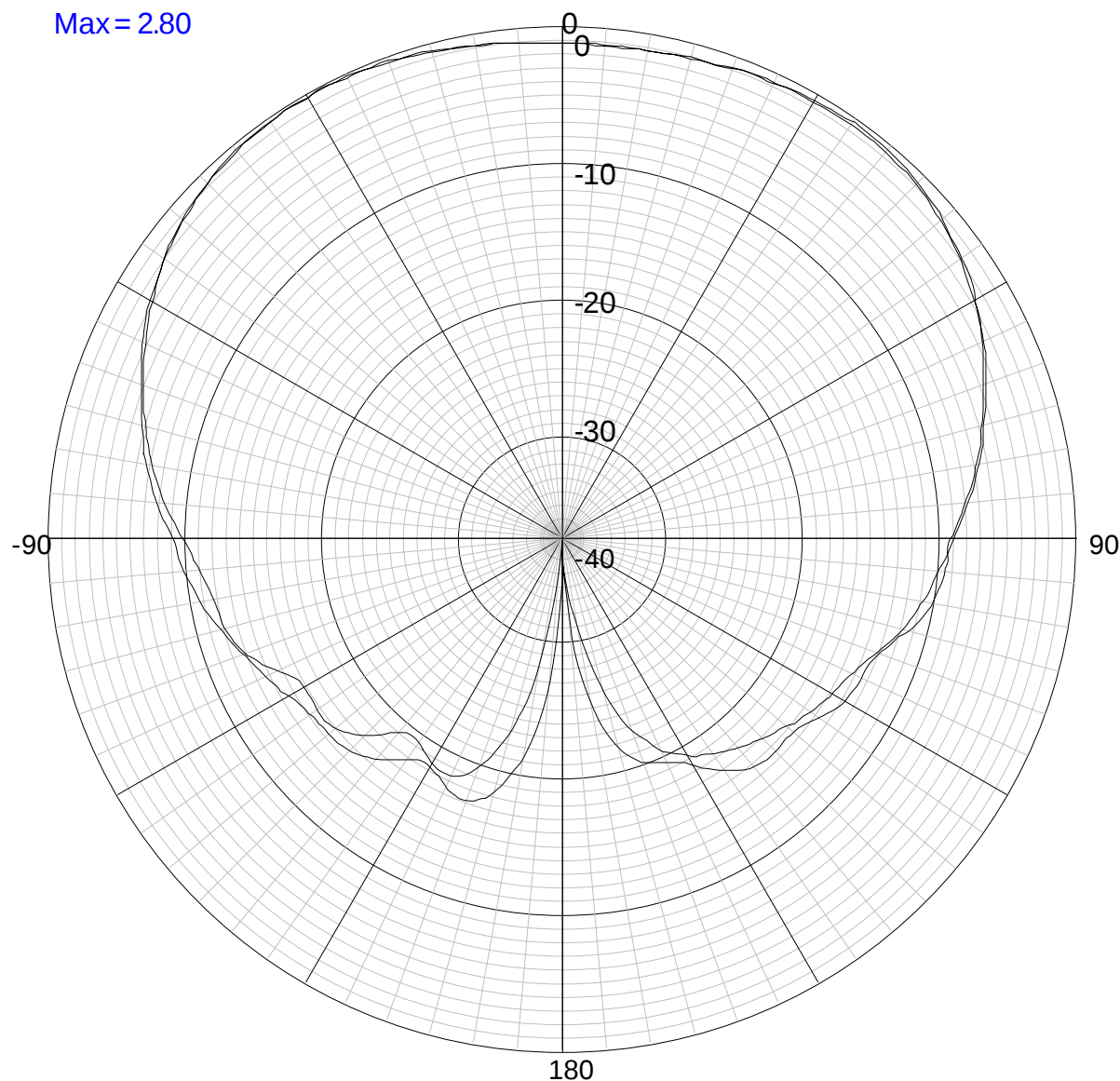
Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Azimuth Cuts @ 1.575 GHz on 16" Dia. Ground Plane

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Co-Pol - Amp





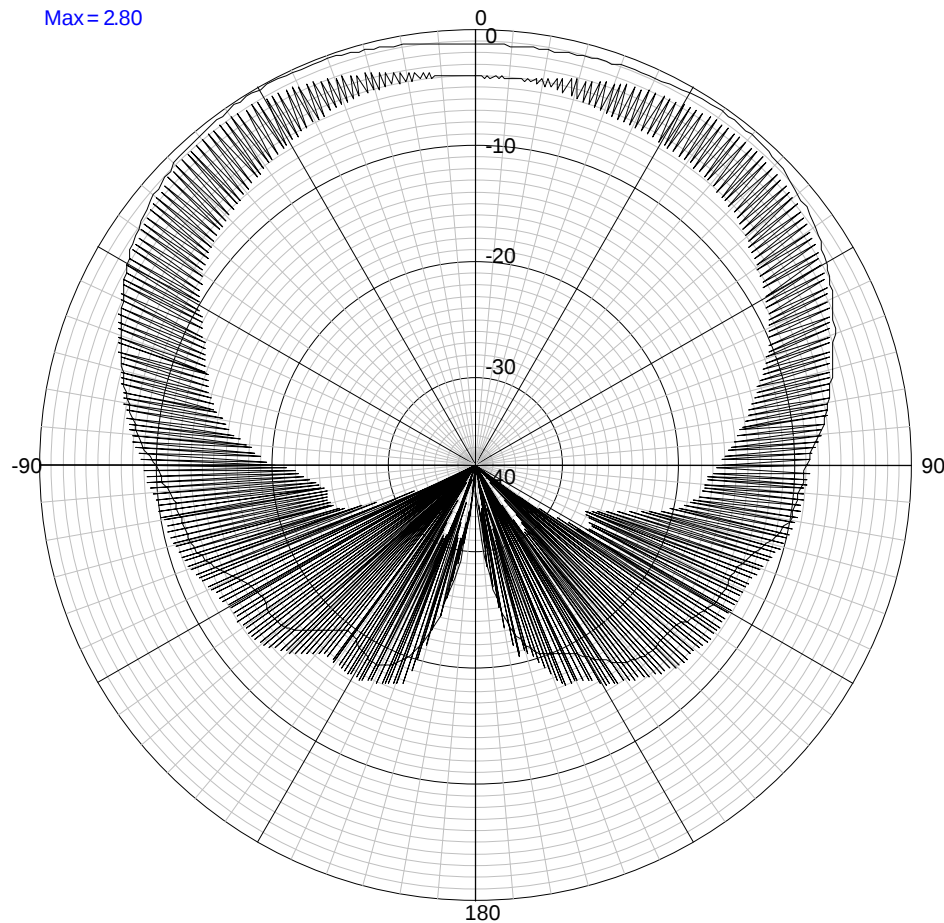
Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Elevation Cuts @ 1.227 GHz on 16" Dia. Ground Plane



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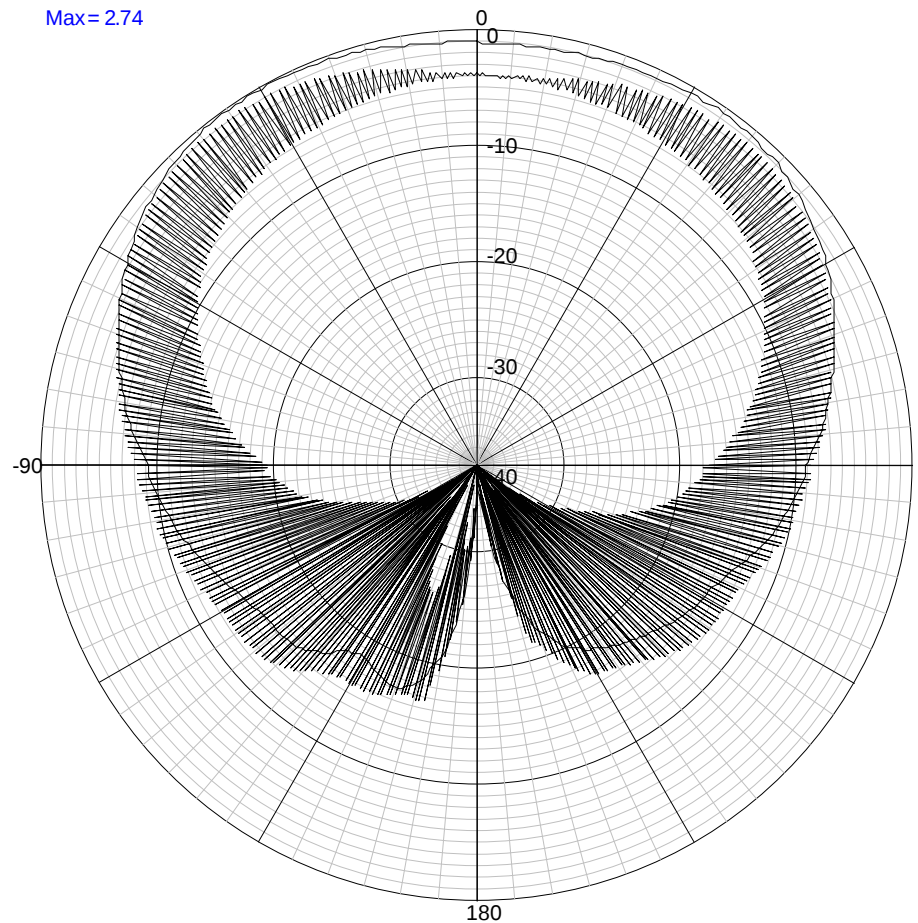
Rotating Linear (E-Cut)

Max = 2.80



Rotating Linear (H-Cut)

Max = 2.74





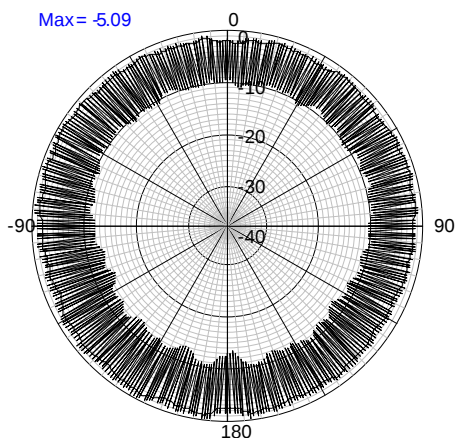
Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Azimuth Cuts @ 1.227 GHz on 16" Dia. Ground Plane



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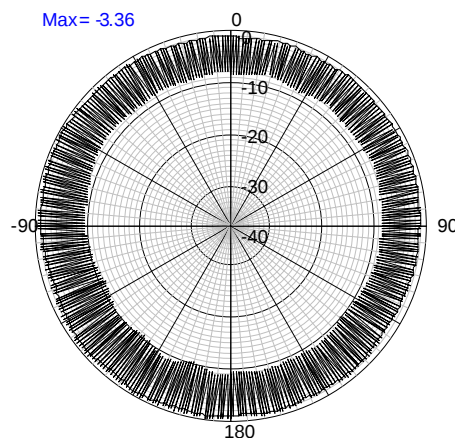
El = 0 deg

Max= -5.09



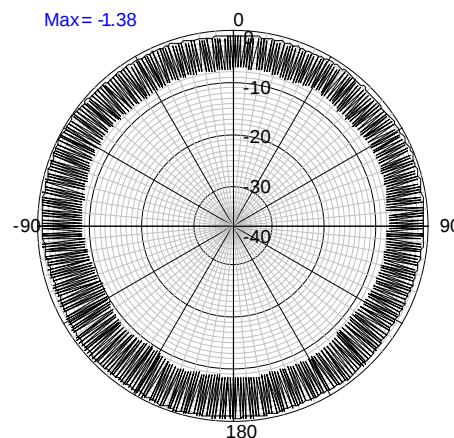
El = 10 deg

Max= -3.36



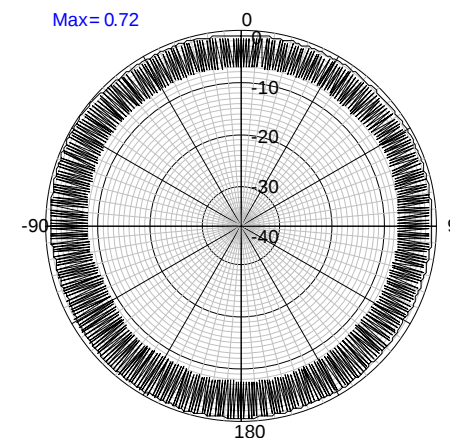
El = 20 deg

Max= -1.38



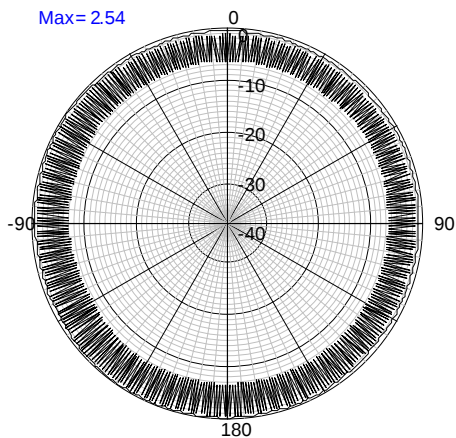
El = 30 deg

Max= 0.72



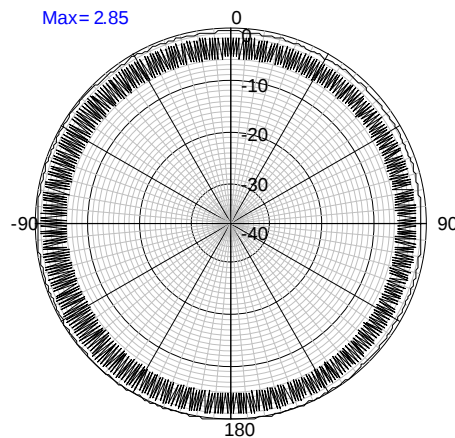
El = 45 deg

Max= 2.54



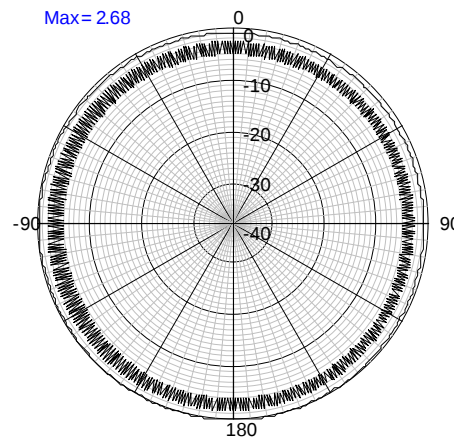
El = 60 deg

Max= 2.85



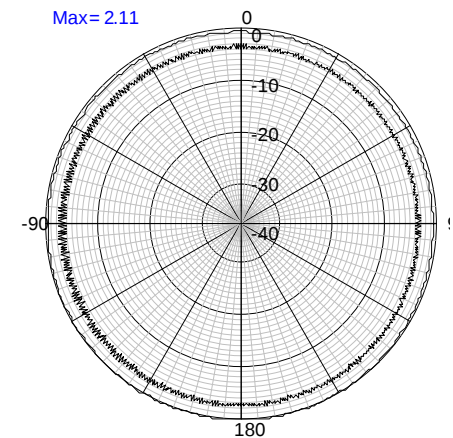
El = 70 deg

Max= 2.68



El = 80 deg

Max= 2.11

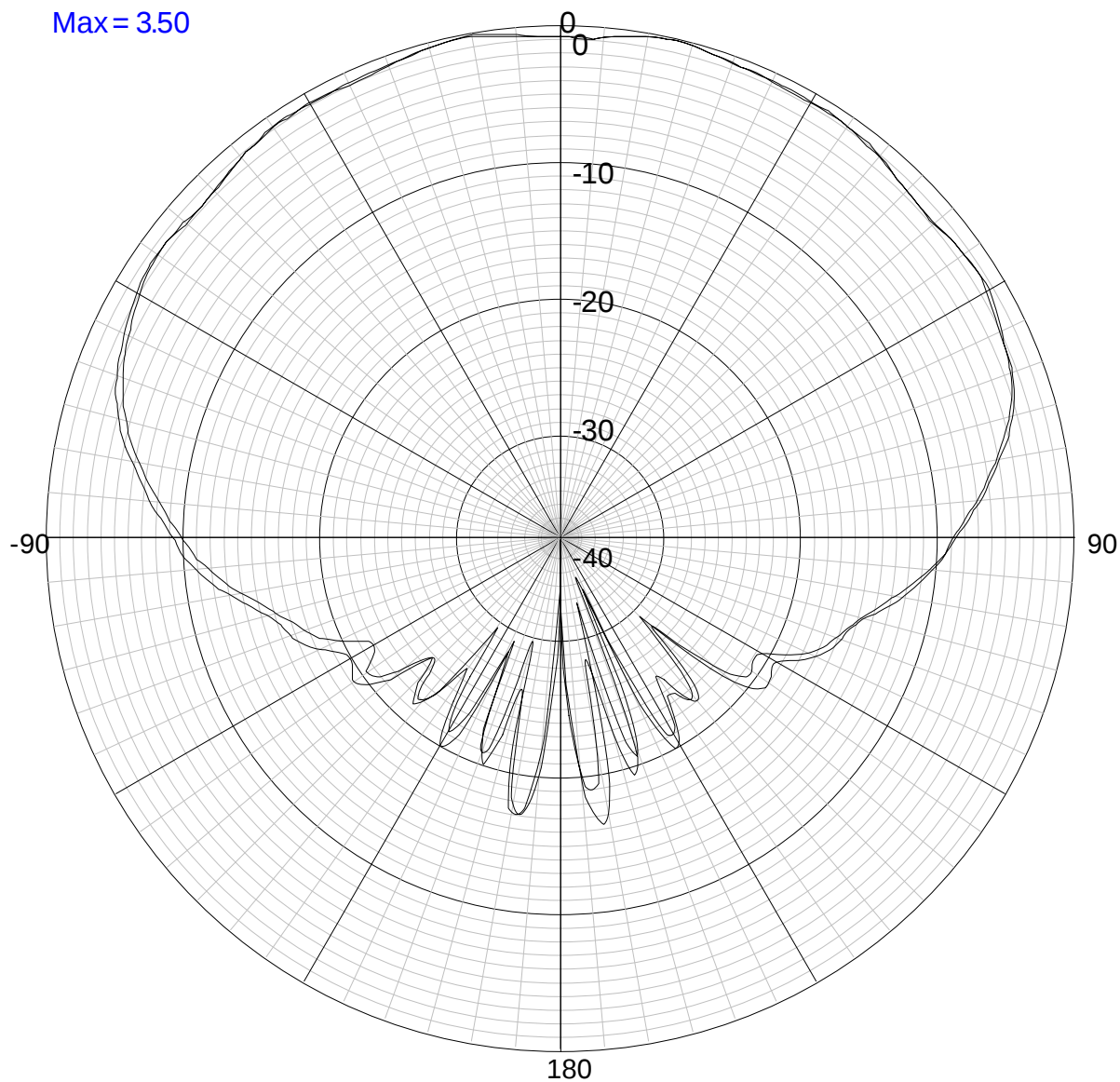


Radiation Pattern of L1/L2 GPS Antenna: E/H Elevation Cuts @ 1.575 GHz on 4 ft Dia. Ground Plane

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Co-Pol - Amp

Max = 3.50





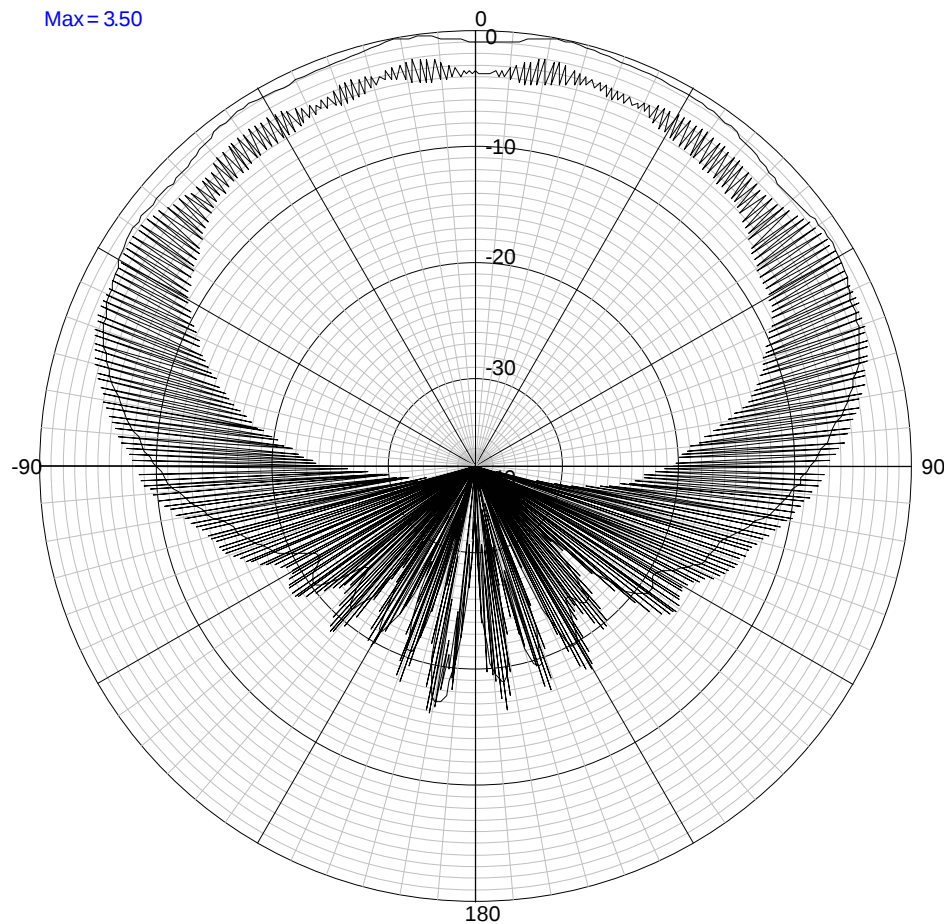
Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Elevation Cuts @ 1.575 GHz on 4 ft Dia. Ground Plane



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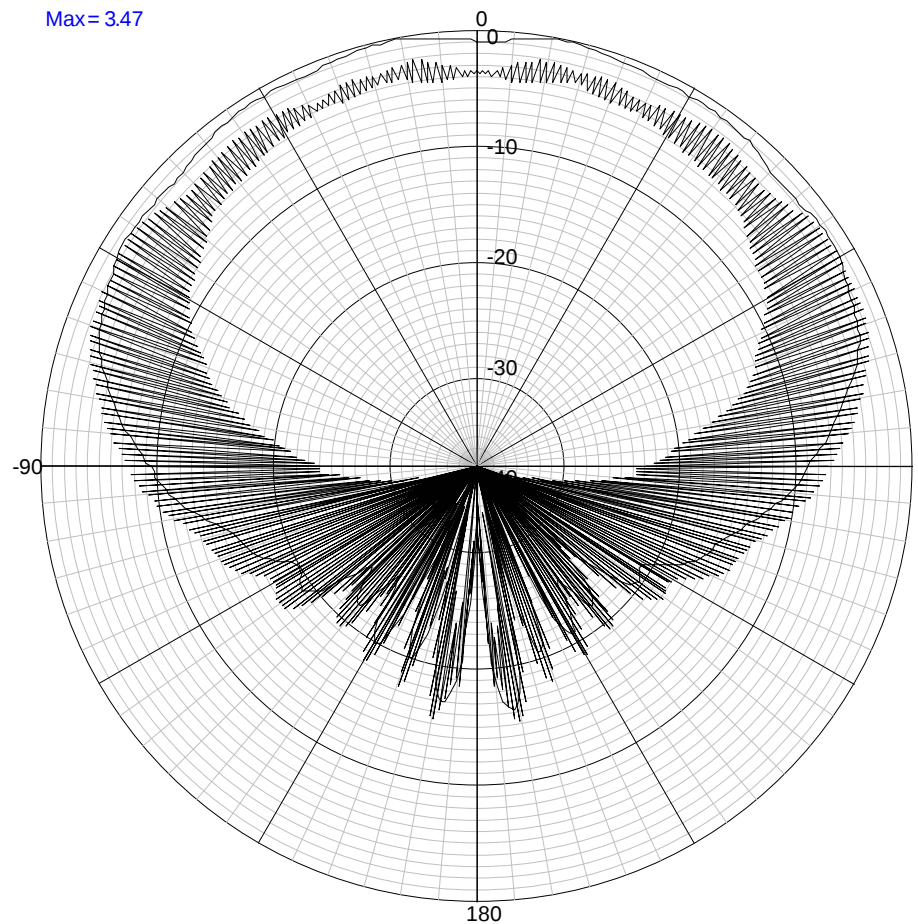
Rotating Linear (E-Cut)

Max = 3.50



Rotating Linear (H-Cut)

Max = 3.47

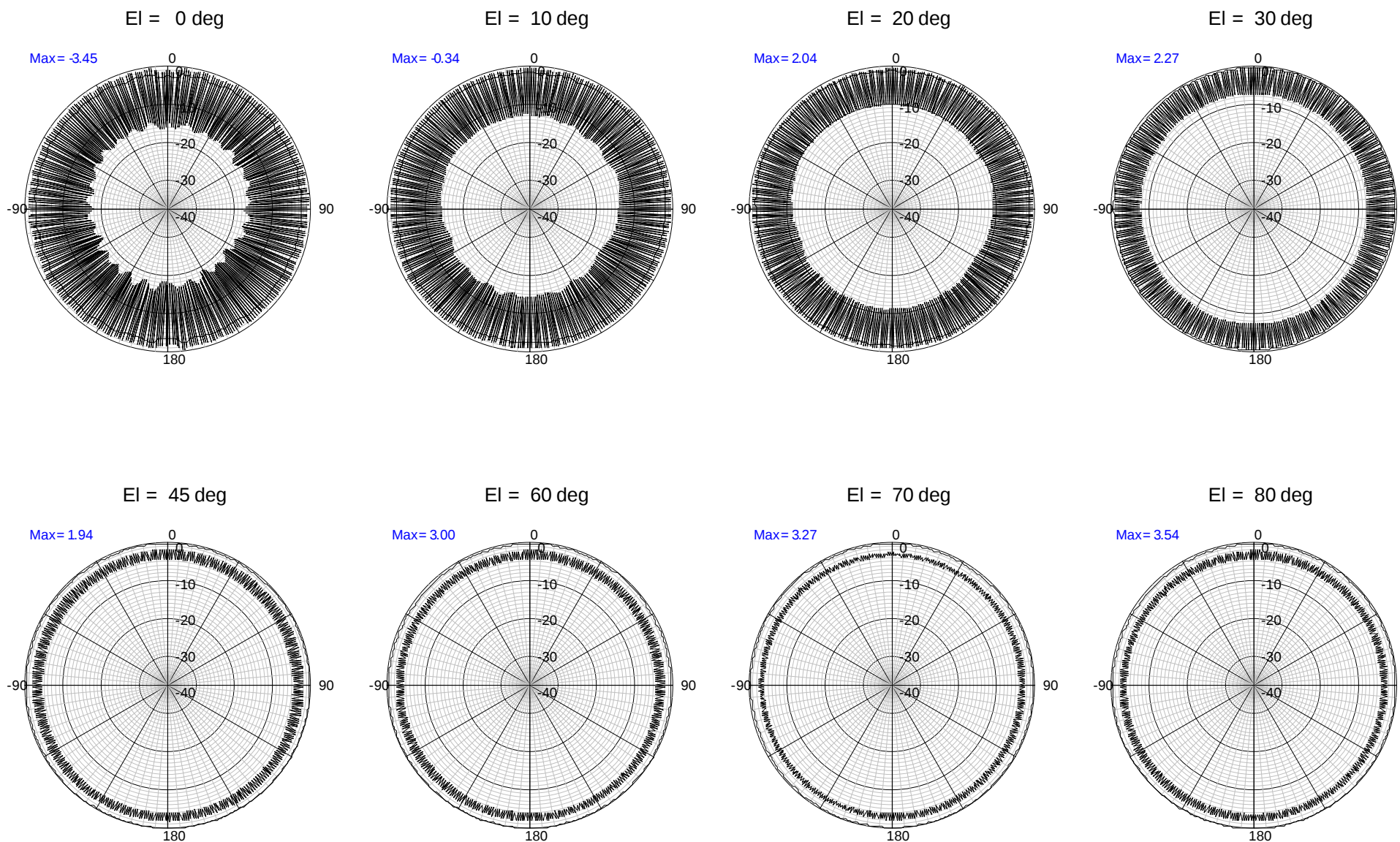




Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Azimuth Cuts @ 1.575 GHz on 4 ft Dia. Ground Plane



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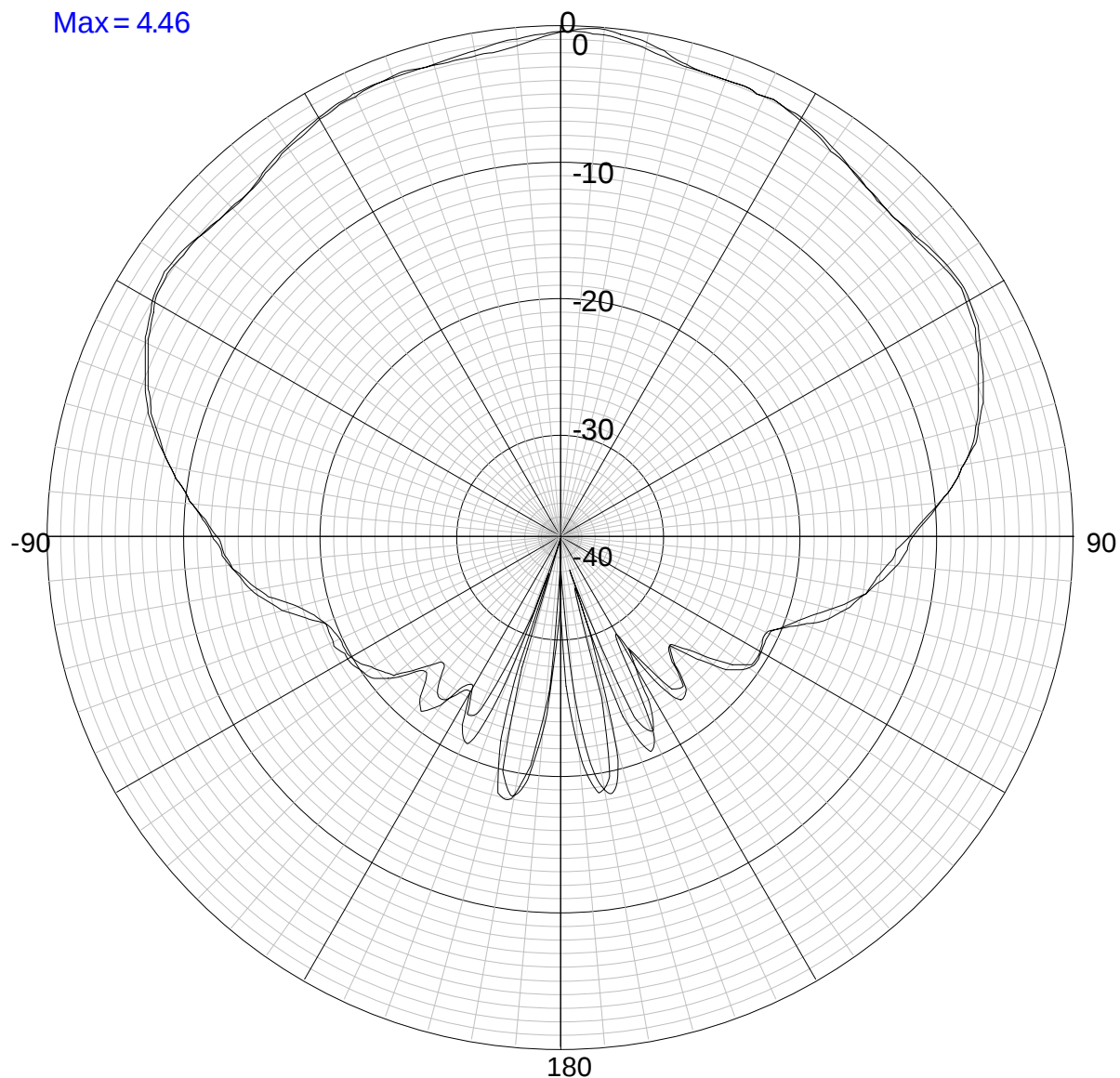


Radiation Pattern of L1/L2 GPS Antenna: E/H Elevation Cuts @ 1.227 GHz on 4 ft Dia. Ground Plane

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Co-Pol - Amp

Max = 4.46





Radiation Pattern of L1/L2 GPS Antenna:

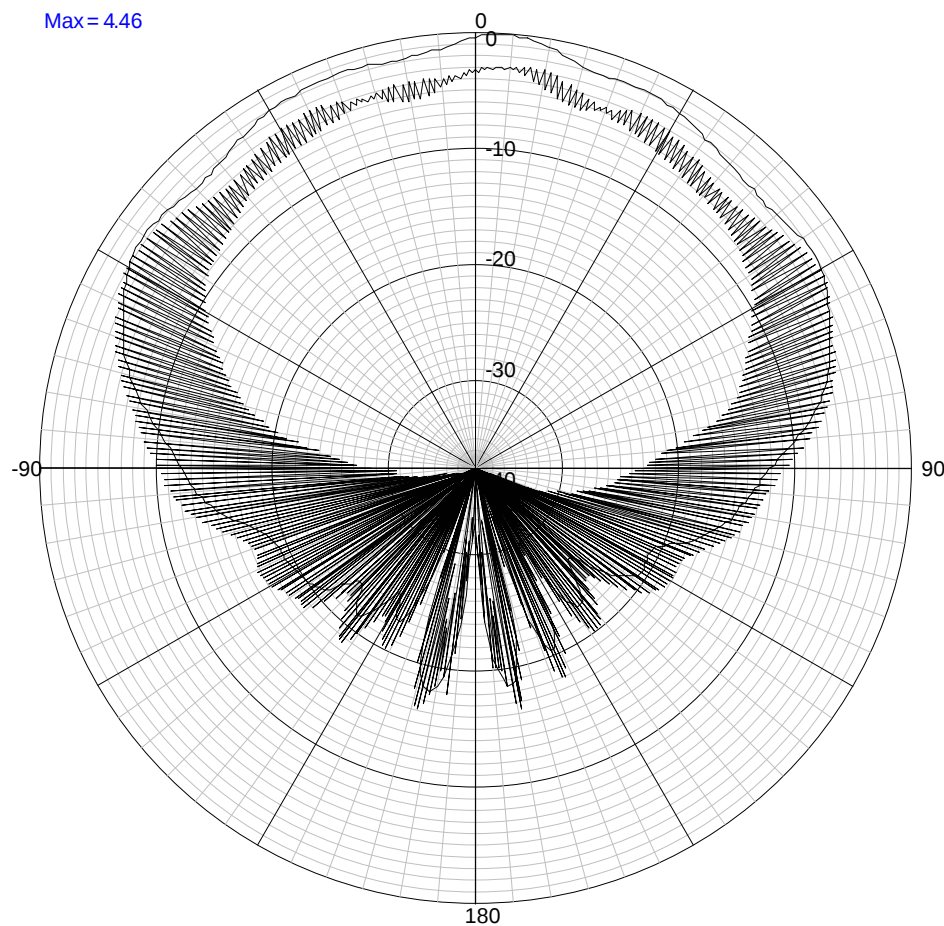
Gain And Axial Ratio Elevation Cuts @ 1.227 GHz on 4 ft Dia. Ground Plane



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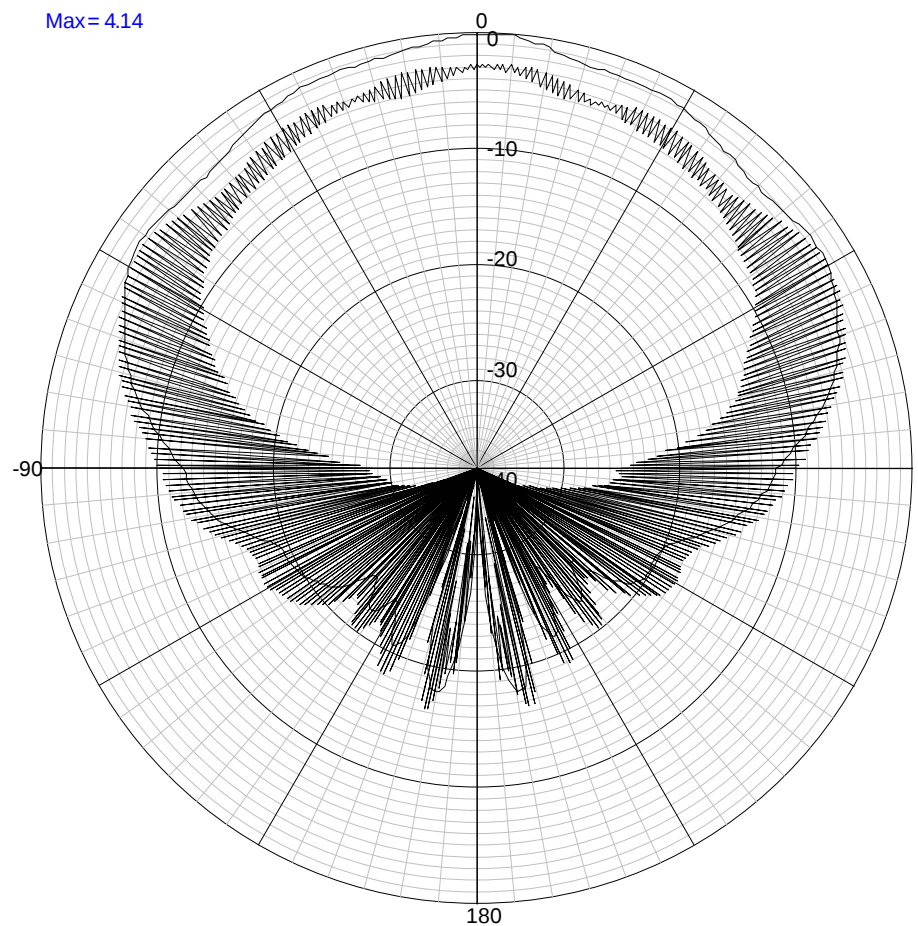
Rotating Linear (E-Cut)

Max = 4.46



Rotating Linear (H-Cut)

Max = 4.14





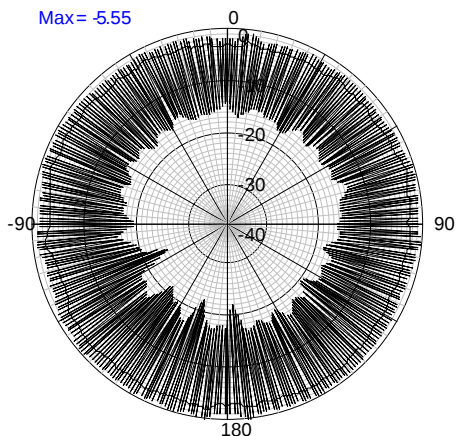
Radiation Pattern of L1/L2 GPS Antenna: Gain And Axial Ratio Azimuth Cuts @ 1.227 GHz on 4 ft Dia. Ground Plane



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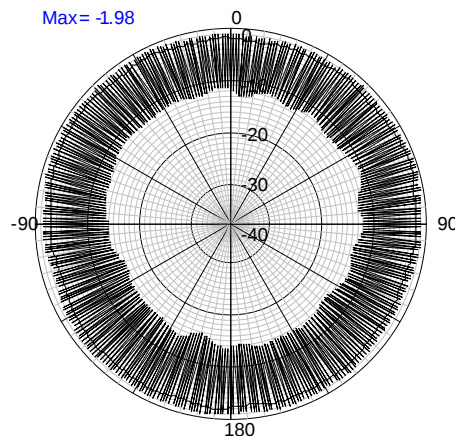
El = 0 deg

Max= -5.55



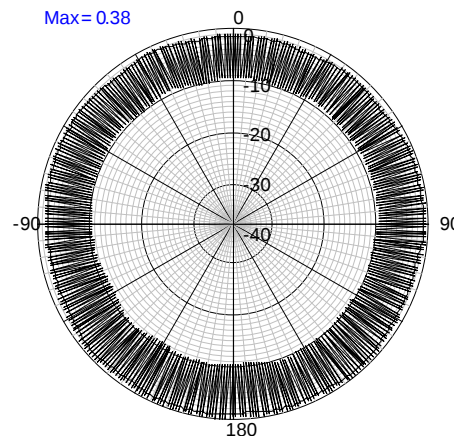
El = 10 deg

Max= -1.98



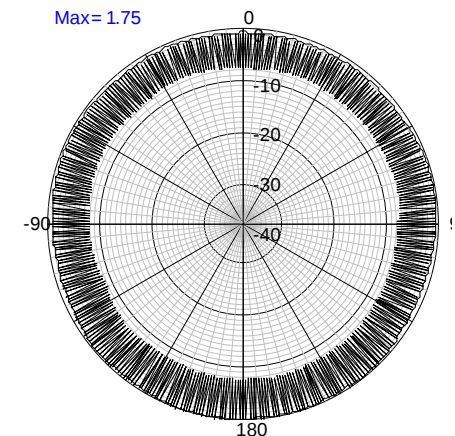
El = 20 deg

Max= 0.38



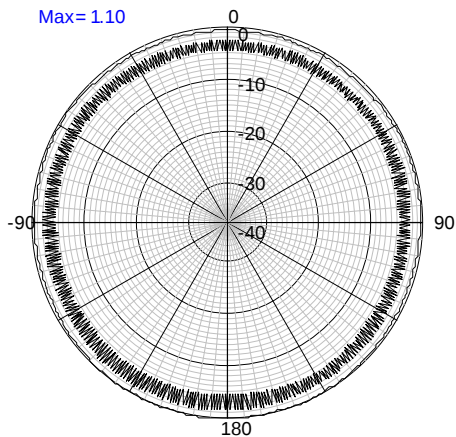
El = 30 deg

Max= 1.75



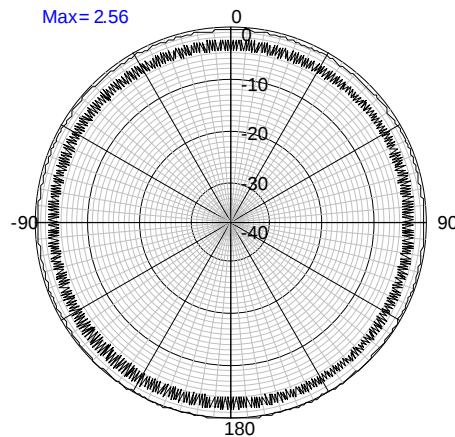
El = 45 deg

Max= 1.10



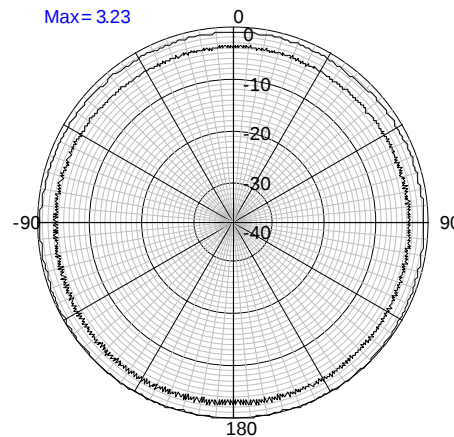
El = 60 deg

Max= 2.56



El = 70 deg

Max= 3.23



El = 80 deg

Max= 3.86

