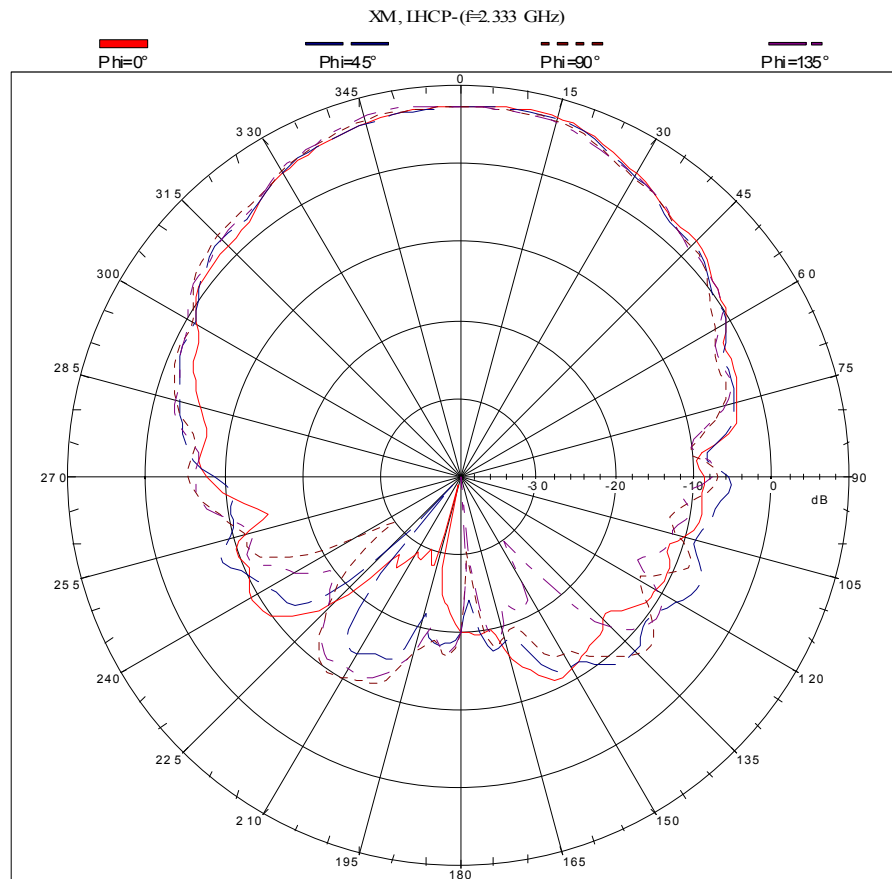


Here is the plot for the XM Home Antenna. The top of the plot is the boresight gain (towards satellite), and the bottom of the plot is the backside gain (to house).



This table shows the calculation of the average backside linear gain for the XM Home Antenna. The elevation angles are negative values as they represent the back of the antenna.

Elevation Angle (deg)	Vertical Gain (dBi)	Horizontal Gain (dBi)
0° (side)	-13.1	-6.6
-5°	-12.5	-8.1
-10°	-12.0	-9.3
-15°	-12.3	-9.6
-20°	-11.2	-10.2
-25°	-9.4	-13.7
-30°	-9.4	-13.3
-35°	-9.9	-14.2
-40°	-9.4	-16.1
-45°	-9.8	-16.7
-50°	-10.3	-14.1
-55°	-9.5	-10.6
-60°	-8.6	-9.5
-65°	-9.3	-10.5
-70°	-10.2	-10.4
-75°	-12.0	-12.0
-80°	-14.2	-17.1
-85°	-15.0	-16.7
-90° (back)	-14.2	-14.2
OVERALL GAIN (dBi)	-11.0	