

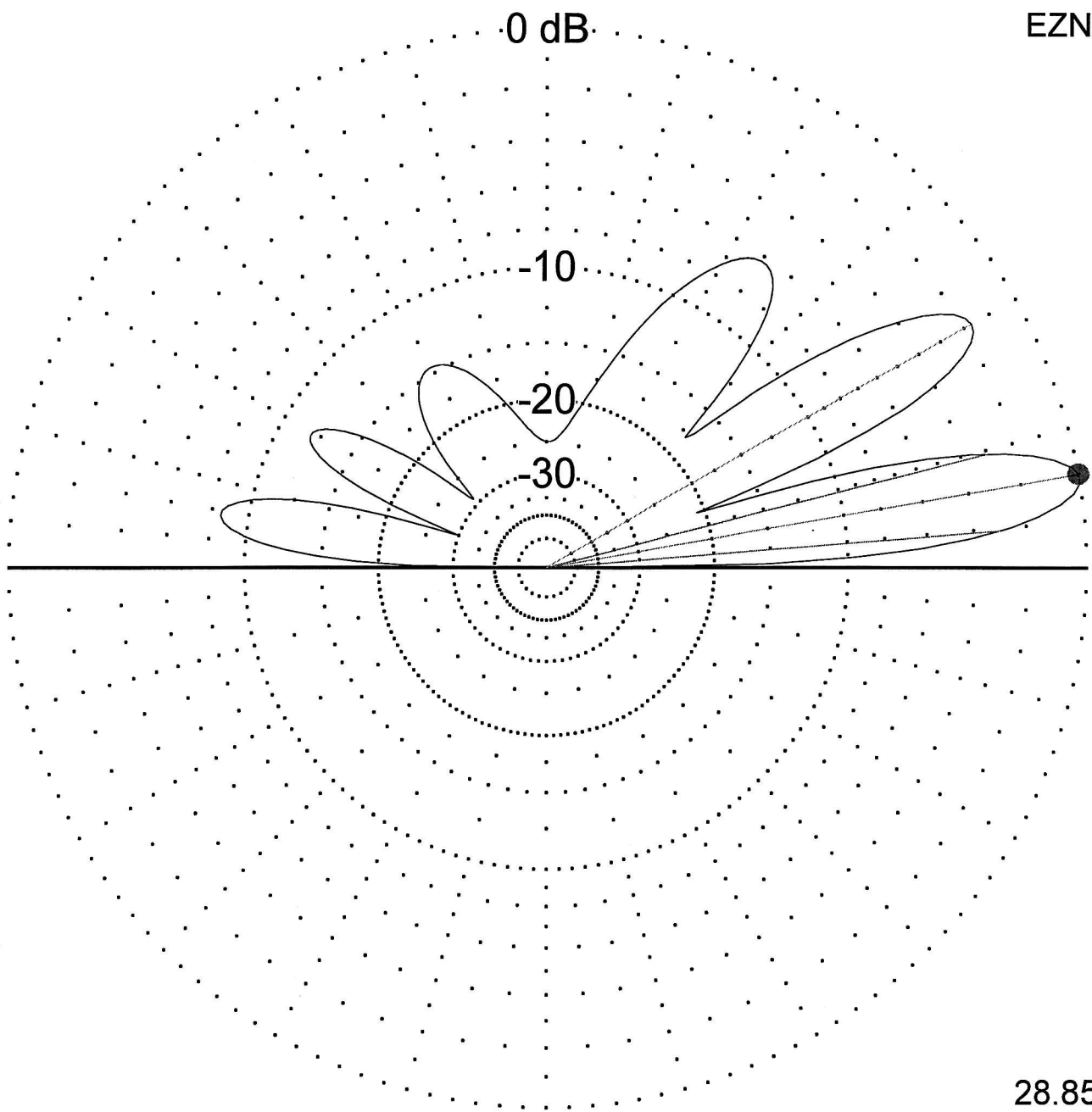
28.85 MHz

MacTenna SB20-10 on 10M
50 feet (15.2 meters) above average ground

Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	10.0 deg.	Gain	13.76 dBi
Outer Ring	13.76dBi		0.0 dBmax
Slice Max Gain	13.76 dBi @ Az Angle = 0.0 deg.		
Front/Back	8.52 dB		
Beamwidth	60.4 deg.; -3dB @ 329.8, 30.2 deg.		
Sidelobe Gain	5.24 dBi @ Az Angle = 180.0 deg.		
Front/Sidelobe	8.52 dB		

0 dB

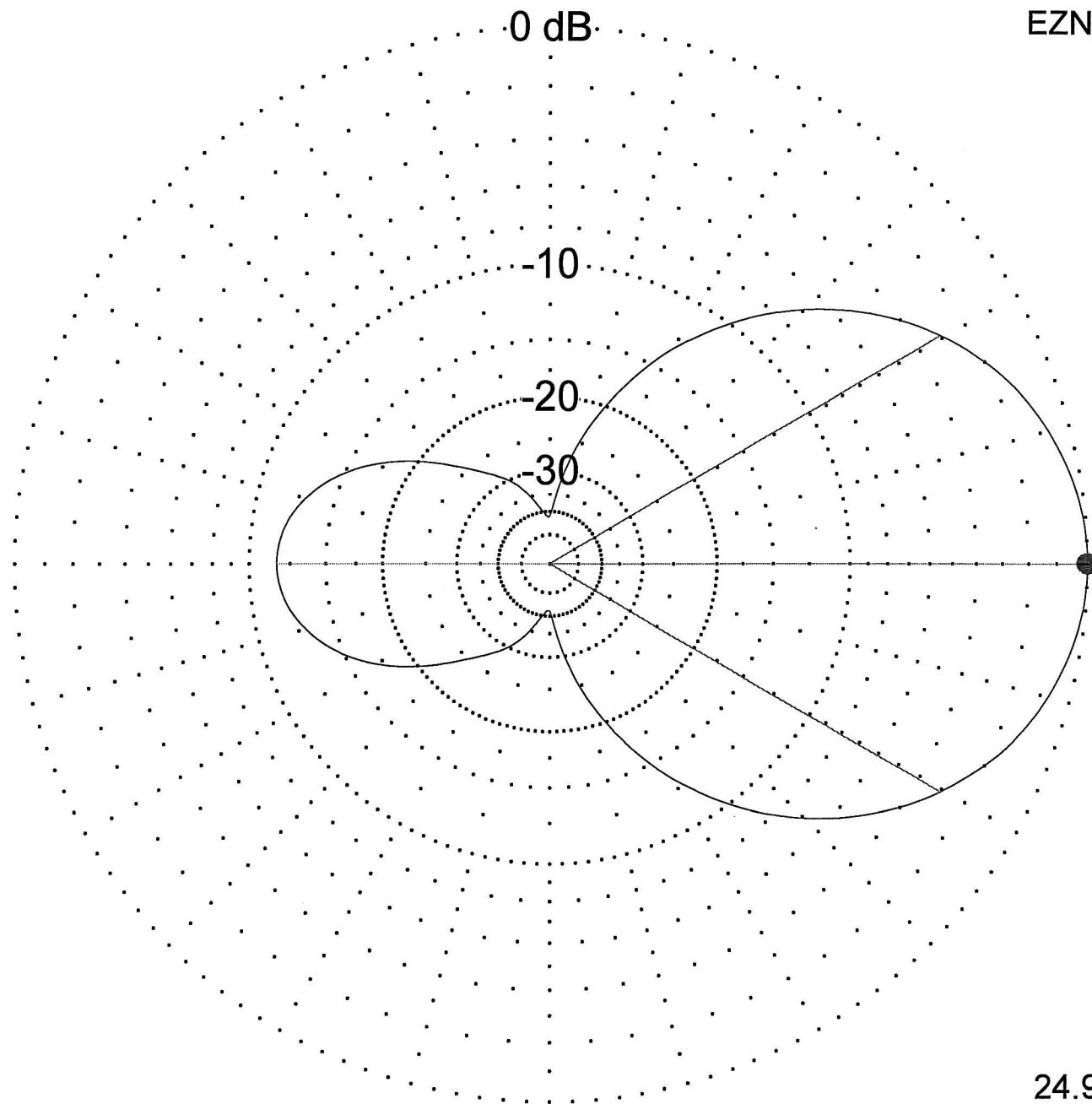
EZNEC-M



28.85 MHz

MacTenna SB20-10 on 10M
 50 feet (15.2 meters) above average ground

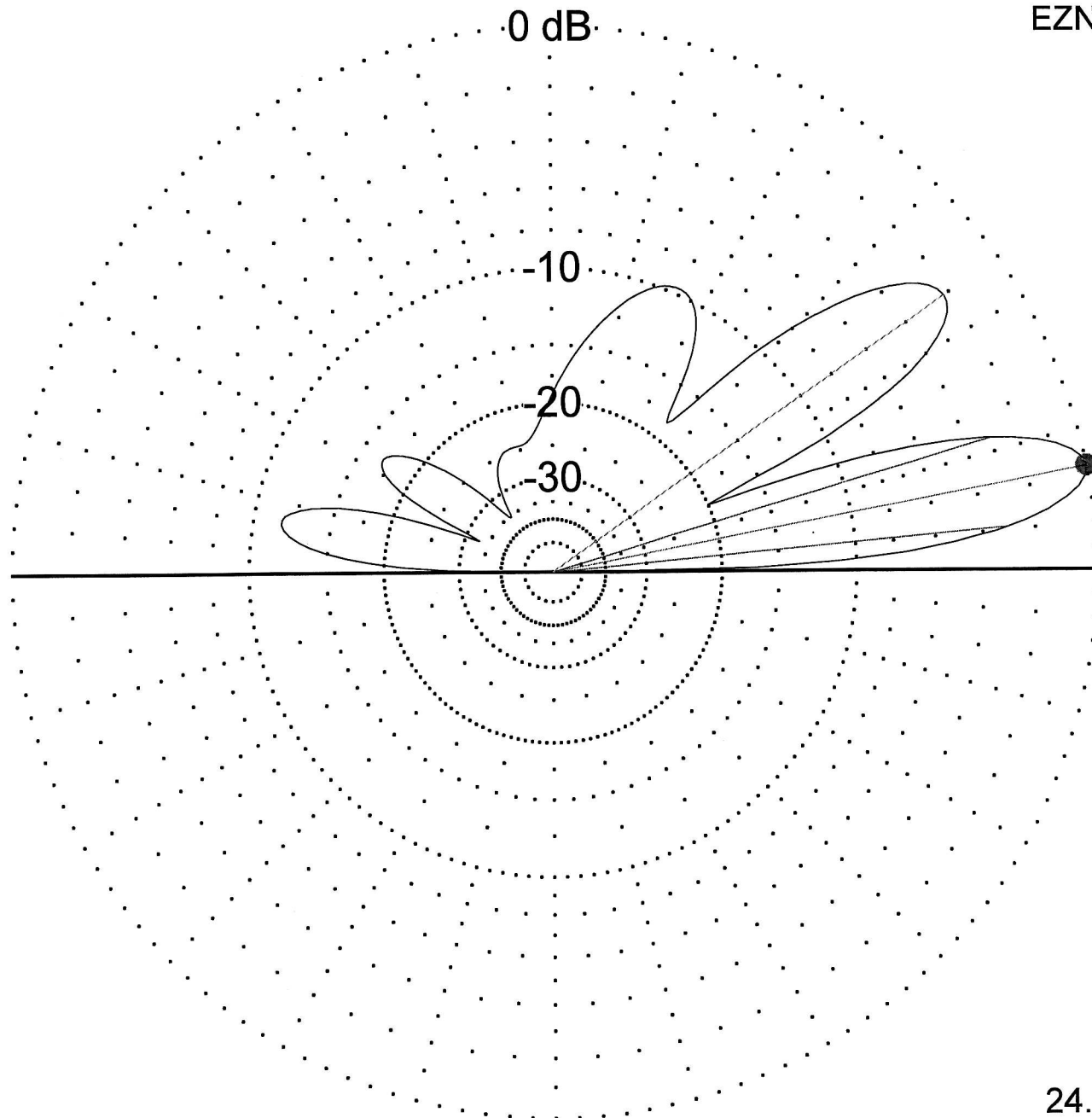
Elevation Plot		Cursor Elev	10.0 deg.
Azimuth Angle	0.0 deg.	Gain	13.76 dBi
Outer Ring	13.76dBi		0.0 dBmax
Slice Max Gain	13.76 dBi @ Elev Angle = 10.0 deg.		
Beamwidth	9.8 deg.; -3dB @ 4.7, 14.5 deg.		
Sidelobe Gain	12.07 dBi @ Elev Angle = 30.0 deg.		
Front/Sidelobe	1.69 dB		



24.9 MHz

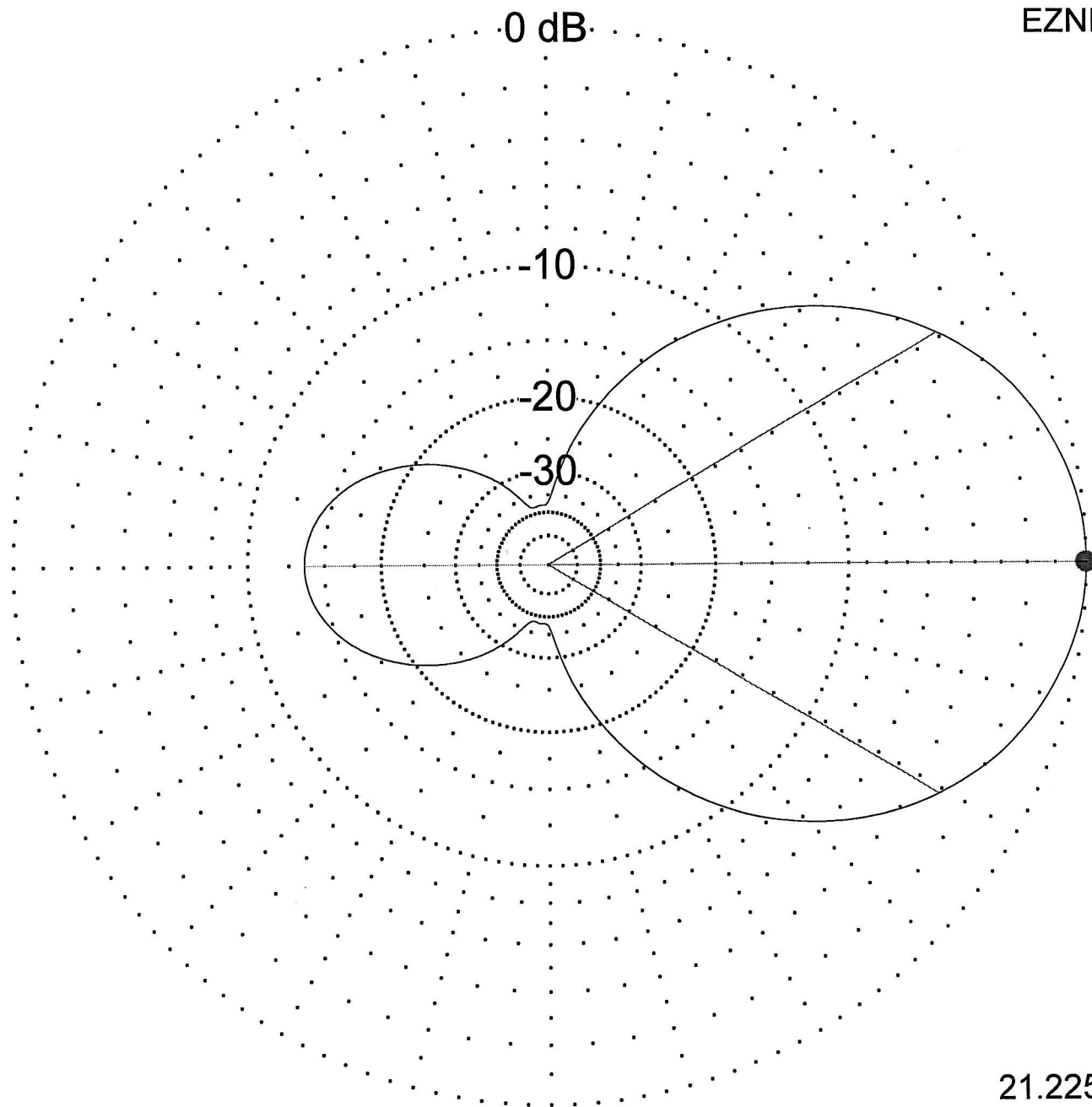
MacTenna SB20-10 on 12M
50 feet (15.2 meters) above average ground

Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	11.0 deg.	Gain	14.04 dBi
Outer Ring	14.04dBi		0.0 dBmax
Slice Max Gain	14.04 dBi @ Az Angle = 0.0 deg.		
Front/Back	11.66 dB		
Beamwidth	60.8 deg.; -3dB @ 329.6, 30.4 deg.		
Sidelobe Gain	2.38 dBi @ Az Angle = 180.0 deg.		
Front/Sidelobe	11.66 dB		



MacTenna SB20-10 on 12M
50 feet (15.2 meters) above average ground

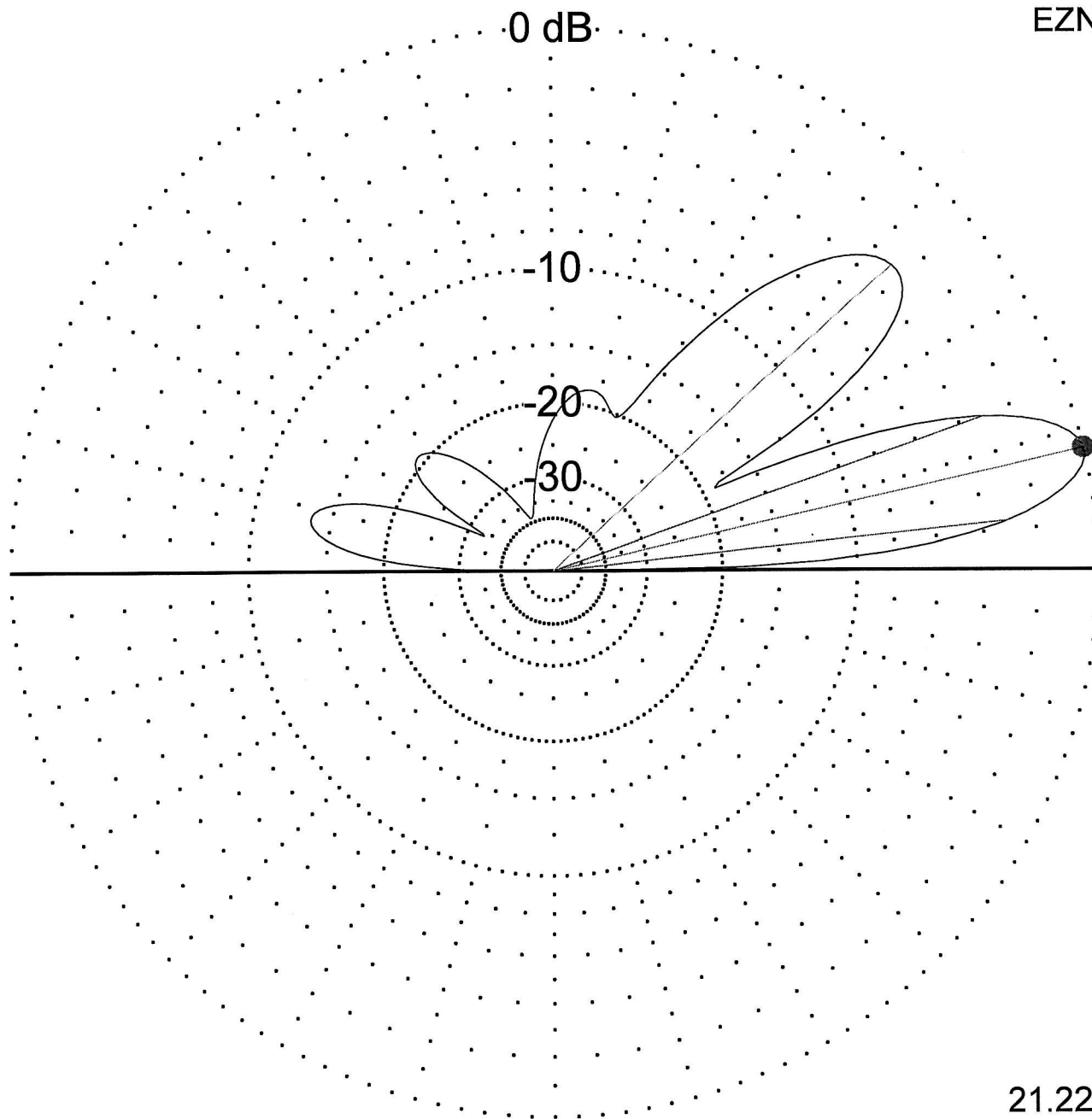
Elevation Plot		Cursor Elev	11.0 deg.
Azimuth Angle	0.0 deg.	Gain	14.04 dBi
Outer Ring	14.04dBi		0.0 dBmax
Slice Max Gain	14.04 dBi @ Elev Angle = 11.0 deg.		
Beamwidth	11.4 deg.; -3dB @ 5.4, 16.8 deg.		
Sidelobe Gain	11.82 dBi @ Elev Angle = 35.0 deg.		
Front/Sidelobe	2.22 dB		



21.225 MHz

MacTenna SB20-10 on 15M
50 feet (15.2 meters) above average ground

Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	13.0 deg.	Gain	13.83 dBi
Outer Ring	13.83dBi		0.0 dBmax
Slice Max Gain	13.83 dBi @ Az Angle = 0.0 deg.		
Front/Back	13.55 dB		
Beamwidth	61.4 deg.; -3dB @ 329.3, 30.7 deg.		
Sidelobe Gain	0.28 dBi @ Az Angle = 180.0 deg.		
Front/Sidelobe	13.55 dB		

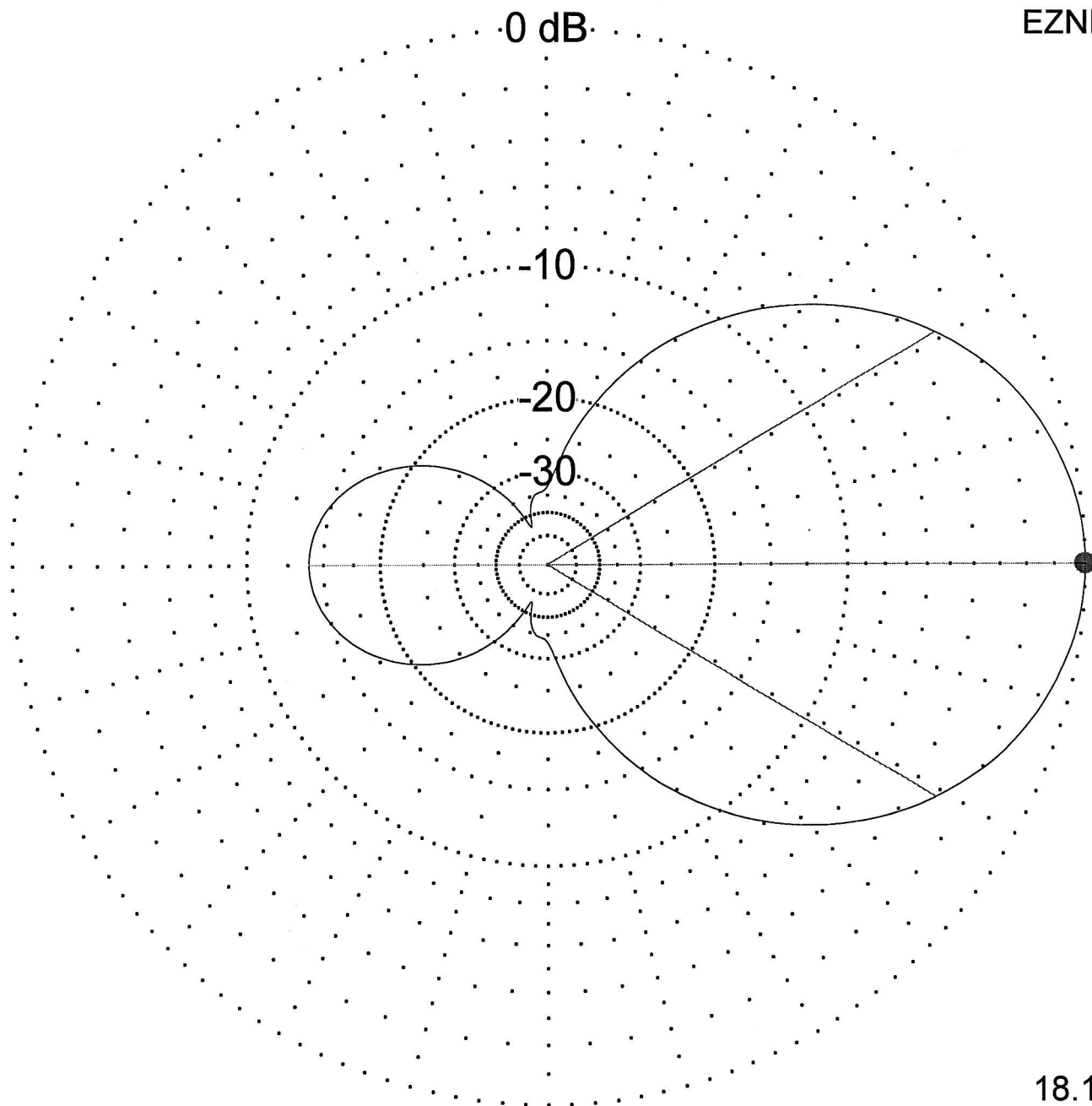


21.225 MHz

MacTenna SB20-10 on 15M

50 feet (15.2 meters) above average ground

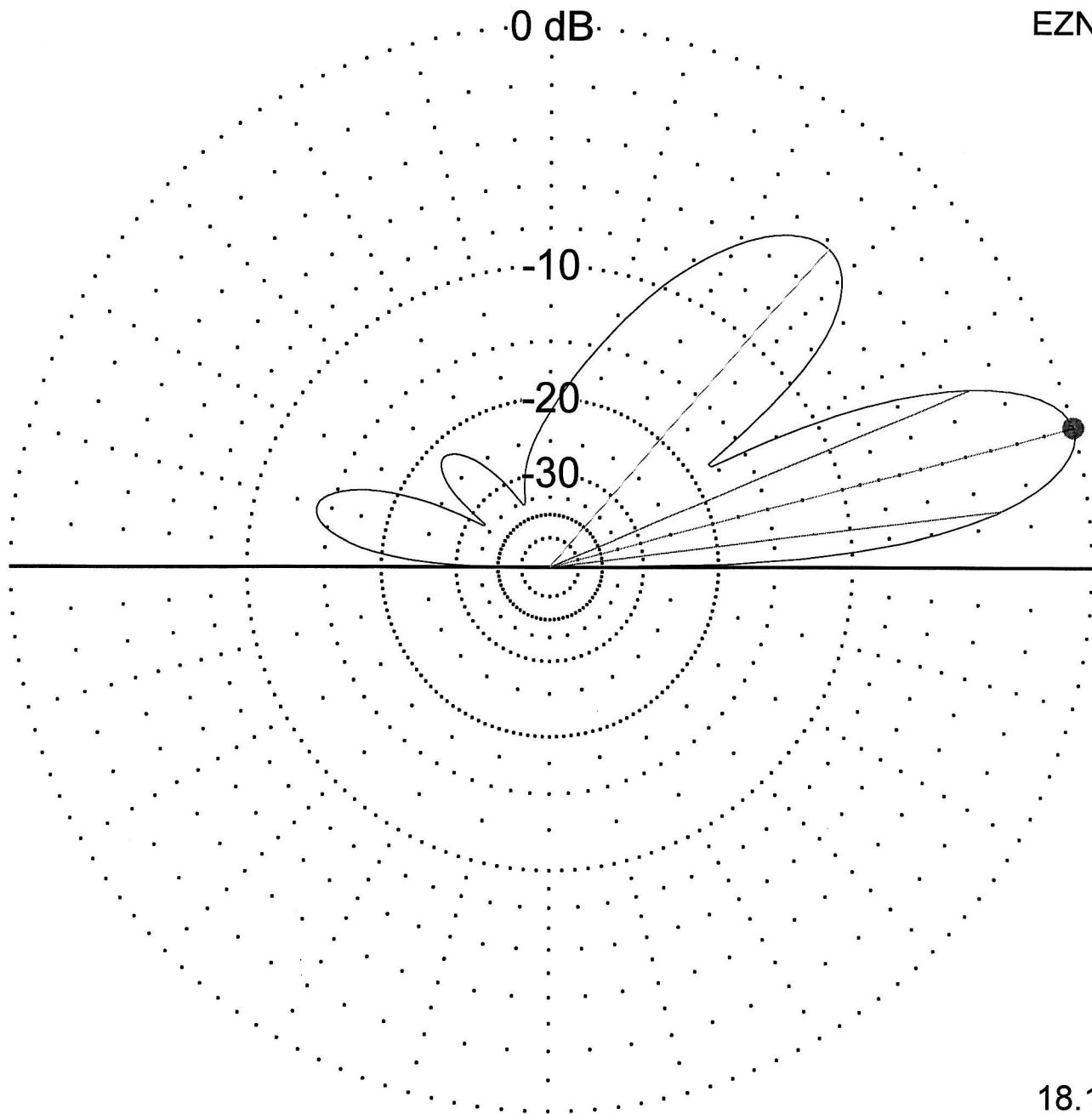
Elevation Plot		Cursor Elev	13.0 deg.
Azimuth Angle	0.0 deg.	Gain	13.83 dBi
Outer Ring	13.83dBi		0.0 dBmax
Slice Max Gain	13.83 dBi @ Elev Angle = 13.0 deg.		
Beamwidth	13.5 deg.; -3dB @ 6.2, 19.7 deg.		
Sidelobe Gain	10.78 dBi @ Elev Angle = 42.0 deg.		
Front/Sidelobe	3.04 dB		



18.1 MHz

MacTenna SB20-10 on 17M
50 feet (15.2 meters) above average ground

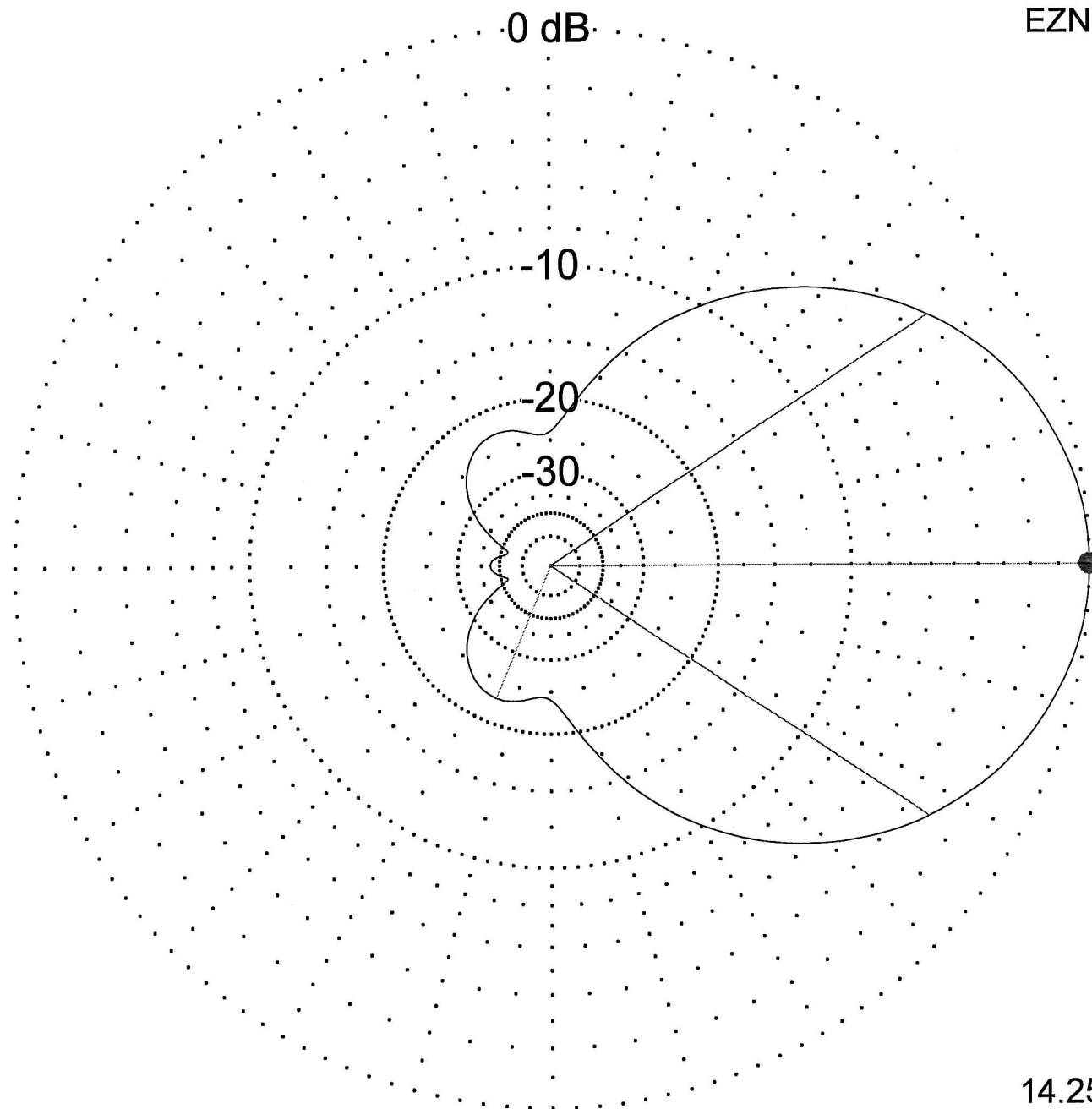
Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	15.0 deg.	Gain	13.48 dBi
Outer Ring	13.48dBi		0.0 dBmax
Slice Max Gain	13.48 dBi @ Az Angle = 0.0 deg.		
Front/Back	13.94 dB		
Beamwidth	62.0 deg.; -3dB @ 329.0, 31.0 deg.		
Sidelobe Gain	-0.46 dBi @ Az Angle = 180.0 deg.		
Front/Sidelobe	13.94 dB		



18.1 MHz

MacTenna SB20-10 on 17M
50 feet (15.2 meters) above average ground

Elevation Plot		Cursor Elev	15.0 deg.
Azimuth Angle	0.0 deg.	Gain	13.48 dBi
Outer Ring	13.48dBi		0.0 dBmax
Slice Max Gain	13.48 dBi @ Elev Angle = 15.0 deg.		
Beamwidth	15.8 deg.; -3dB @ 7.2, 23.0 deg.		
Sidelobe Gain	9.24 dBi @ Elev Angle = 49.0 deg.		
Front/Sidelobe	4.24 dB		



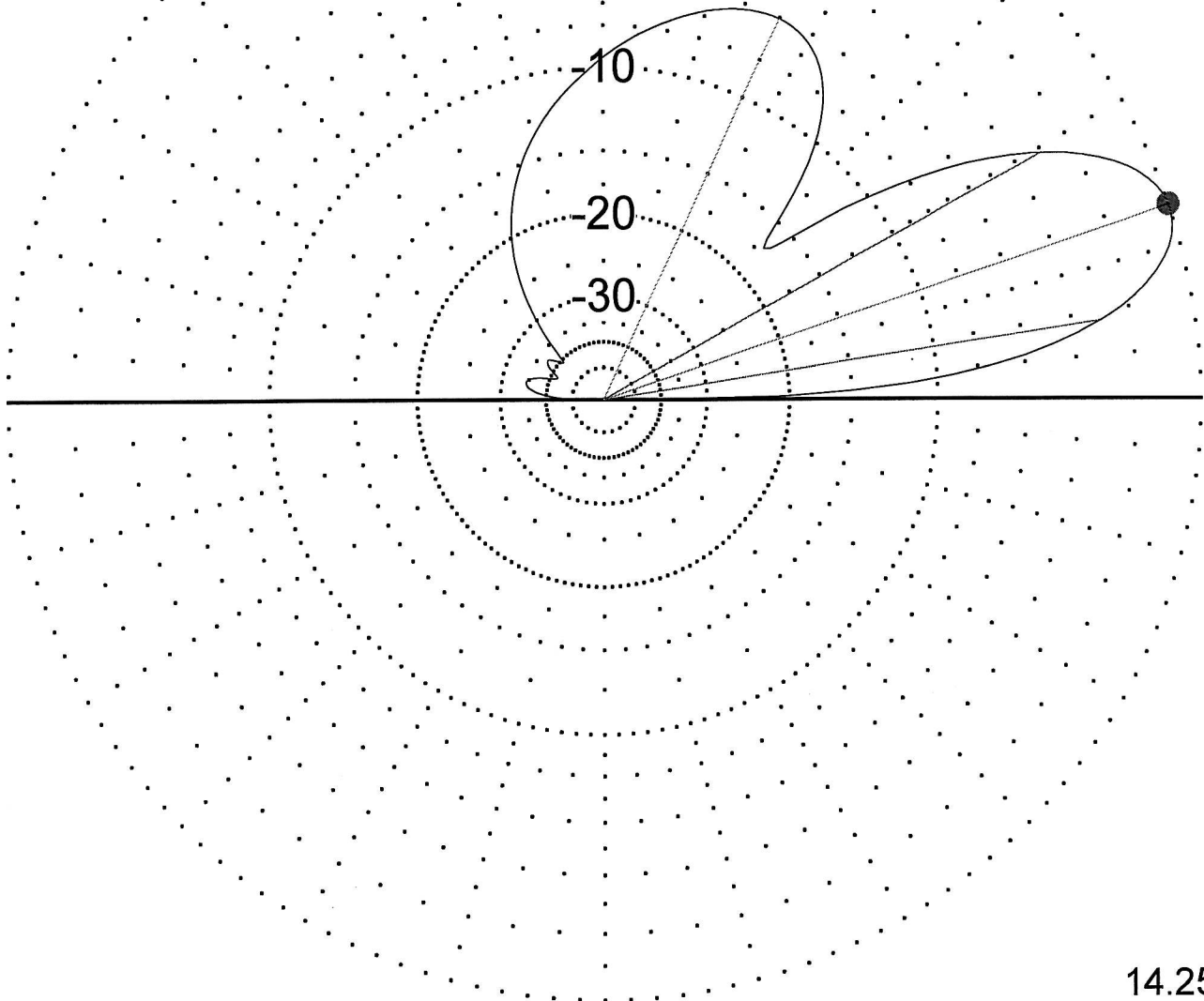
14.25 MHz

MacTenna SB20-10 on 20M
50 feet (15.2 meters) above average ground

Azimuth Plot		Cursor Az	0.0 deg.
Elevation Angle	19.0 deg.	Gain	12.5 dBi
Outer Ring	12.5dBi		0.0 dBmax
Slice Max Gain	12.5 dBi @ Az Angle = 0.0 deg.		
Front/Back	37.29 dB		
Beamwidth	67.2 deg.; -3dB @ 326.4, 33.6 deg.		
Sidelobe Gain	-10.28 dBi @ Az Angle = 247.0 deg.		
Front/Sidelobe	22.77 dB		

0 dB

EZNEC-M



14.25 MHz

MacTenna SB20-10 on 20M
 50 feet (15.2 meters) above average ground

Elevation Plot		Cursor Elev	19.0 deg.
Azimuth Angle	0.0 deg.	Gain	12.5 dBi
Outer Ring	12.5dBi		0.0 dBmax
Slice Max Gain	12.5 dBi @ Elev Angle = 19.0 deg.		
Beamwidth	20.4 deg.; -3dB @ 9.0, 29.4 deg.		
Sidelobe Gain	6.45 dBi @ Elev Angle = 65.0 deg.		
Front/Sidelobe	6.04 dB		