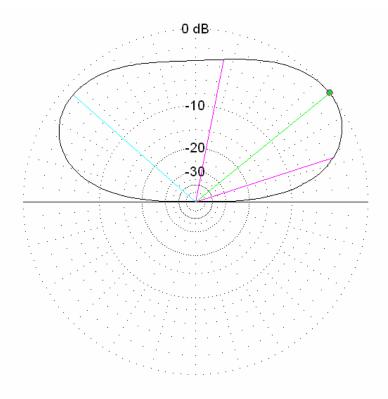
D3+ Design Details:

Leg Length: 52 feet Apex: 120 degrees Height above ground: 35 feet

At 14.2 MHz, D3+ gain is 9.9 dBi @ 26 degrees elevation Half-wave dipole at same height is 7.34 dBi @ 30 degrees



Elevation Plot Azimuth Angle 0.0 deg. Outer Ring 7.04dBi

 Slice Max Gain
 7.04 dBi @ Elev Angle = 39.0 deg.

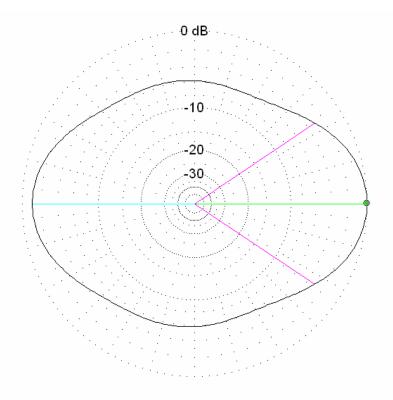
 Beamwidth
 61.0 deg.; -3dB @ 17.8, 78.8 deg.

 Sidelobe Gain
 6.01 dBi @ Elev Angle = 139.0 deg.

 Front/Sidelobe
 1.03 dB

10.1 MHz

Cursor Elev 39.0 deg. Gain 7.04 dBi 0.0 dBmax

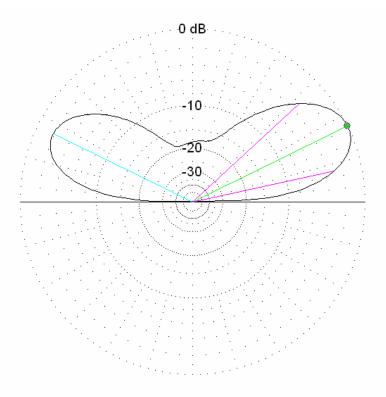


Azimuth Plot Elevation Angle 39.0 deg. Outer Ring 7.04dBi

Slice Max Gain	7.04 dBi @ Az Angle = 0.0 deg.
Front/Back	1.05 dB
Beamwidth	67.6 deg.; -3dB @ 326.2, 33.8 deg.
Sidelobe Gain	6.0 dBi @ Az Angle = 180.0 deg.
Front/Sidelobe	1.05 dB

10.1 MHz

Cursor Az 0.0 deg. Gain 7.04 dBi 0.0 dBmax



Elevation Plot Azimuth Angle 0.0 deg. Outer Ring 9.93dBi

 Slice Max Gain
 9.93 dBi @ Elev Angle = 26.0 deg.

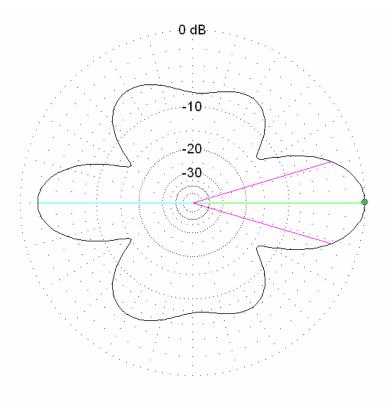
 Beamwidth
 30.4 deg; -3dB @ 12.2, 42.6 deg.

 Sidelobe Gain
 8.1 dBi @ Elev Angle = 154.0 deg.

 Front/Sidelobe
 1.83 dB

14.2 MHz

Cursor Elev 26.0 deg. Gain 9.93 dBi 0.0 dBmax



Azimuth Plot Elevation Angle 26.0 deg. Outer Ring 9.93dBi Slice Max Gain 9.83 dBi @ Az Ar

 Slice Max Gain
 9.93 dBi @ Az Angle = 0.0 deg.

 Front/Back
 1.83 dB

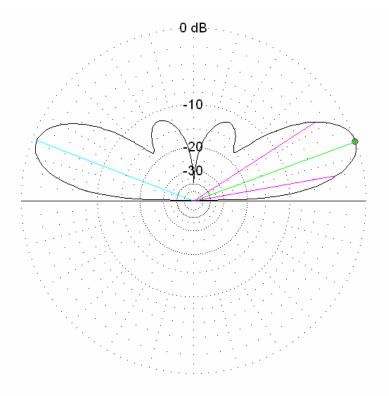
 Beamwidth
 32.8 deg.; -3dB @ 343.6, 16.4 deg.

 Sidelobe Gain
 8.1 dBi @ Az Angle = 180.0 deg.

 Front/Sidelobe
 1.83 dB

14.2 MHz

Cursor Az 0.0 deg. Gain 9.93 dBi 0.0 dBmax



Elevation Plot Azimuth Angle 0.0 deg. Outer Ring 9.59dBi

 Slice Max Gain
 9.59 dBi @ Elev Angle = 20.0 deg.

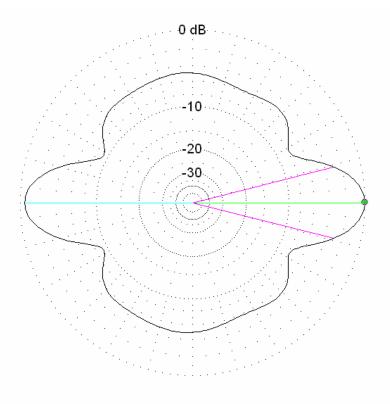
 Beamwidth
 23.0 deg.; -3dB @ 9.8, 32.8 deg.

 Sidelobe Gain
 9.13 dBi @ Elev Angle = 159.0 deg.

 Front/Sidelobe
 0.46 dB

18.1 MHz

Cursor Elev 20.0 deg. Gain 9.59 dBi 0.0 dBmax



Azimuth Plot Elevation Angle 20.0 deg. Outer Ring 9.59dBi
 Slice Max Gain
 9.59 dBi @ Az Angle = 0.0 deg.

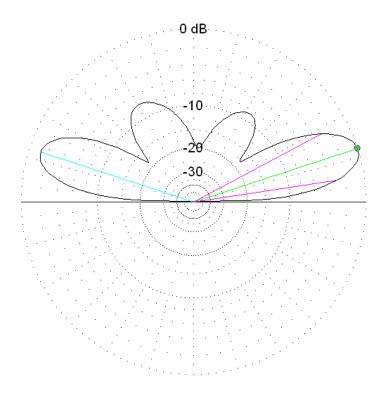
 Front/Back
 0.47 dB

 Beamwidth
 28.6 deg.; -3dB @ 345.7, 14.3 deg.

 Sidelobe Gain
 9.13 dBi @ Az Angle = 180.0 deg.

 Front/Sidelobe
 0.47 dB

0.0 deg. 9.59 dBi 0.0 dBmax Cursor Az Gain



Elevation Plot Azimuth Angle 0.0 deg. Outer Ring 9.78dBi

 Slice Max Gain
 9.78 dBi @ Elev Angle = 18.0 deg.

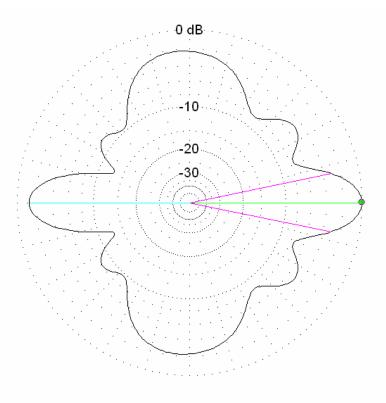
 Beamwidth
 19.3 deg.; -3dB @ 8.5, 27.8 deg.

 Sidelobe Gain
 8.57 dBi @ Elev Angle = 162.0 deg.

 Front/Sidelobe
 1.22 dB

21.2 MHz

Cursor Elev 18.0 deg. Gain 9.78 dBi 0.0 dBmax



Azimuth Plot Elevation Angle 18.0 deg. Outer Ring 9.78dBi
 Slice Max Gain
 9.78 dBi @ Az Angle = 0.0 deg.

 Front/Back
 1.22 dB

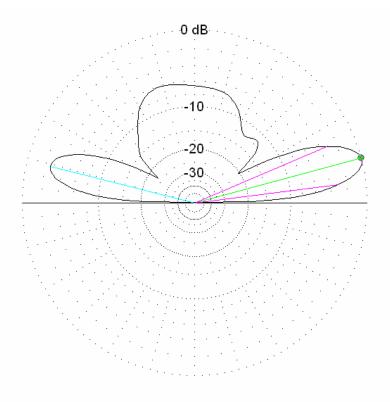
 Beamwidth
 23.0 deg.; -3dB @ 348.5, 11.5 deg.

 Sidelobe Gain
 8.57 dBi @ Az Angle = 180.0 deg.

 Front/Sidelobe
 1.22 dB

21.2 MHz

Cursor Az 0.0 deg. Gain 9.78 dBi 0.0 dBmax



Elevation Plot Azimuth Angle 0.0 deg. Outer Ring 7.84dBi

 Slice Max Gain
 7.84 dBi @ Elev Angle = 15.0 deg.

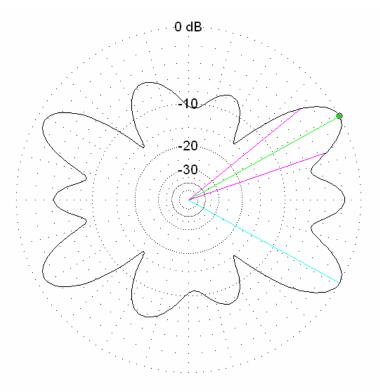
 Beamwidth
 15.9 deg.; -3dB @ 7.0, 22.9 deg.

 Sidelobe Gain
 5.31 dBi @ Elev Angle = 166.0 deg.

 Front/Sidelobe
 2.53 dB

24.93 MHz

Cursor Elev 15.0 deg. Gain 7.84 dBi 0.0 dBmax

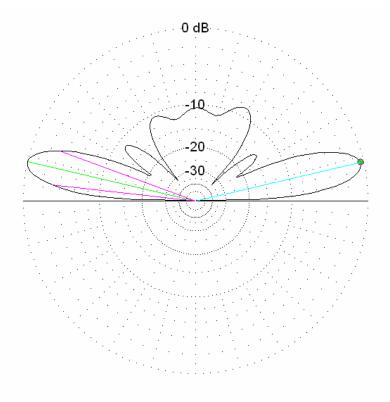


Azimuth Plot Elevation Angle 15.0 deg. Outer Ring 9.53dBi

Slice Max Gain	9.53 dBi @ Az Angle = 29.0 deg.
Front/Back	0.85 dB
Beamwidth	20.2 deg.; -3dB @ 18.7, 38.9 deg.
Sidelobe Gain	9.53 dBi @ Az Angle = 331.0 deg.
Front/Sidelobe	0.0 dB

24.93 MHz

Cursor Az 29.0 deg. Gain 9.53 dBi 0.0 dBmax



Elevation Plot Azimuth Angle 0.0 deg. Outer Ring 5.33dBi

 Slice Max Gain
 5.33 dBi @ Elev Angle = 167.0 deg.

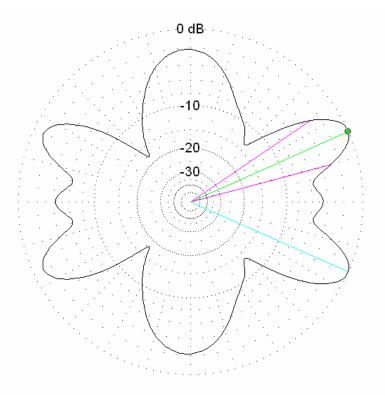
 Beamwidth
 13.8 deg.; -3dB @ 159.9, 173.7 deg.

 Sidelobe Gain
 5.02 dBi @ Elev Angle = 13.0 deg.

 Front/Sidelobe
 0.32 dB

28.35 MHz

Cursor Elev 13.0 deg. Gain 5.02 dBi -0.32 dBmax



Azimuth Plot Elevation Angle 13.0 deg. Outer Ring 9.51dBi

Slice Max Gain	9.51 dBi @ Az Angle = 24.0 deg.
Front/Back	1.11 dB
Beamwidth	19.2 deg.; -3dB @ 14.8, 34.0 deg.
Sidelobe Gain	9.51 dBi @ Az Angle = 336.0 deg.
Front/Sidelobe	0.0 dB

28.35 MHz

Cursor Az 24.0 deg. Gain 9.51 dBi 0.0 dBmax