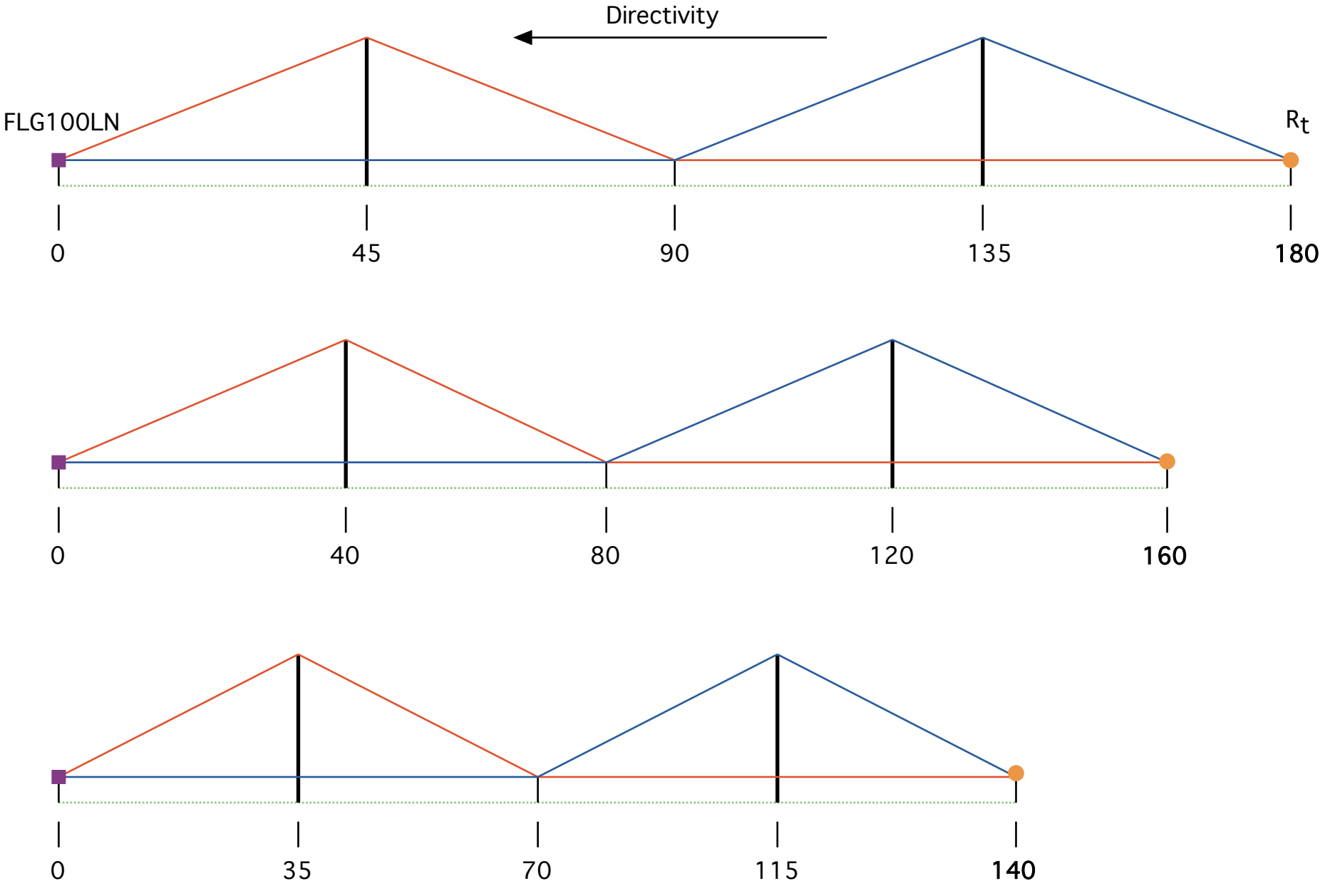
Directivity
FLG100LN
R_t
0
45
90
135
180
0
40
80
120
160
0
35
70
115
140

Each antenna consists of 3 x 4' step-in electric fence posts <http://www.kencove.com/fence/Fiberglass+Posts_detail_F38SSG.php> at each end and middle as well as 2 x 23' fiberglass, telescoping masts <http://store.kittyhawk.com/22-Foot-Heavy-Duty-Telescoping-Windsock-Pole-P1432.aspx> at 1/4 and 3/4 marks [see drawing].

At the null end I use a 9:1 binocular-wound transformer connecting the antenna to CAT5 cable back to the shack and a 100 ohm pot to adjust the null. Sometimes a 50 ohm fixed resistor is necessary in series with the pot. I have successfully used this with up to 600' lengths of CAT5.

At the 'business end' I use a Wellbrook FLG100LN antenna interface. It provides good, wide-band matching and amplification with RG-58 coax input to the shack. I have used up to 700' if RG-58 with no loss of gain or ill effects.

The longer the DKAZ antenna, the better its low-band performance ... with some sacrifice of directivity at the top-end.

If it is windy you might need to 'guy' the DKAZ masts. I have done this by tying 3 x 35' lengths of masonry strings to the top of the next-to-last segment of the mast and using tent spikes to attach each to the ground at 120 deg. separations.