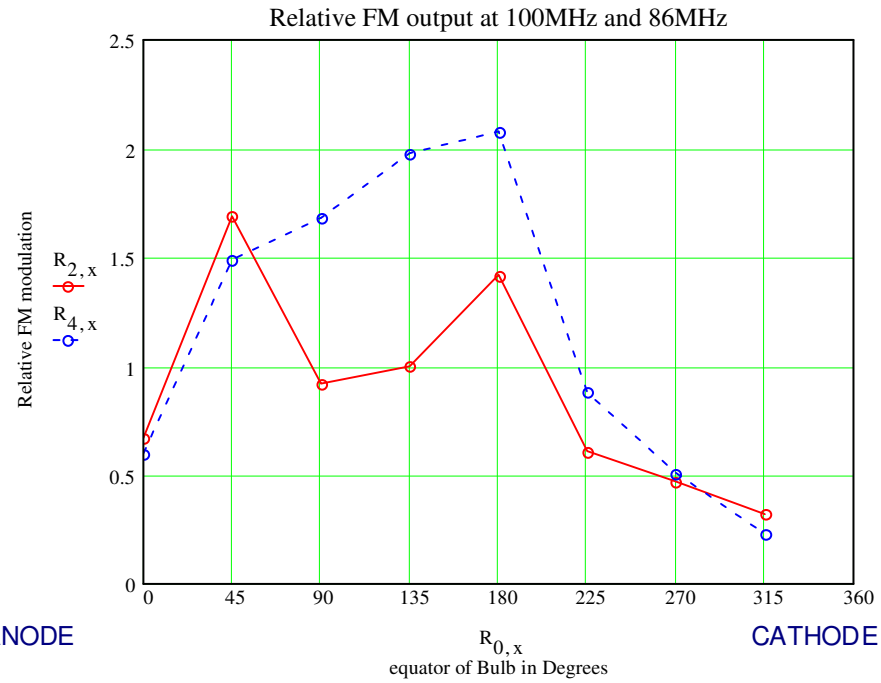
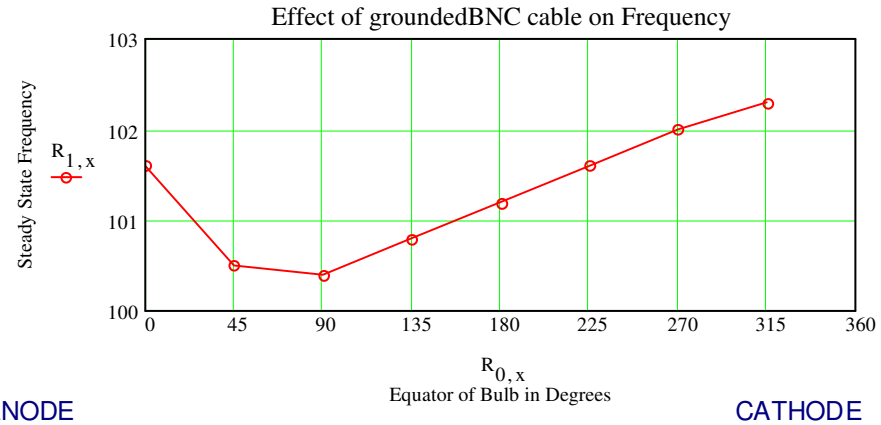
$x := 1 .. 8$

$R := READPRN(RUSTIK2F)$

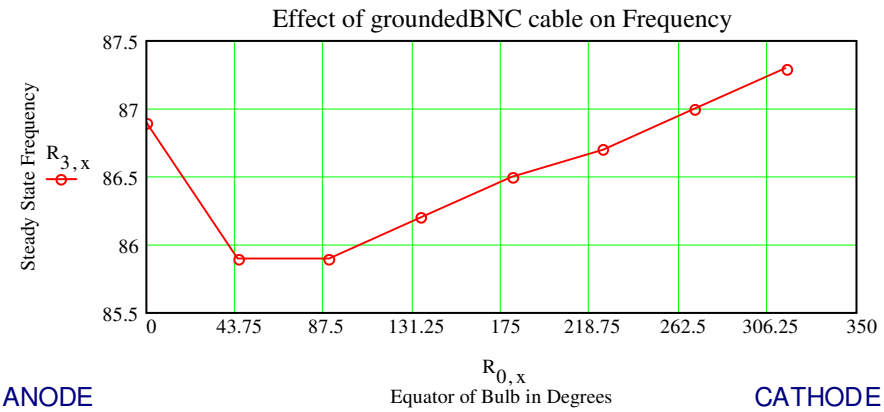
$$R = \begin{bmatrix} 0 & 0 & 45 & 90 & 135 & 180 & 225 & 270 & 315 \\ 240 & 101.6 & 100.5 & 100.4 & 100.8 & 101.2 & 101.6 & 102 & 102.3 \\ 240 & 0.67 & 1.69 & 0.92 & 1 & 1.42 & 0.61 & 0.47 & 0.32 \\ 208 & 86.9 & 85.9 & 85.9 & 86.2 & 86.5 & 86.7 & 87 & 87.3 \\ 208 & 0.6 & 1.49 & 1.683 & 1.979 & 2.08 & 0.88 & 0.51 & 0.23 \end{bmatrix}$$



ANODE CATHODE



ANODE CATHODE



ANODE CATHODE

Joe Sousa 8-31-8

Effect of E-field modulation with 100Vp-p 2kHz around equator of Rustika bulb.

The prime meridian coincides with the filament ends.

First plot shows relative FM modulation output at two base frequencies of 100MHz and 86MHz. These two frequencies were produced with DC drive to bulb of 240V and 208V and 240V.
The FM modulation is obtained by placing the end of a BNC cable with 100Vp-p at 2kHz around the equator of the Bulb.

Second and Third plots show static frequency effect, of placing the grounded end of the BNC cable around the equator of the bulb.

The 45o location is nearest the Anode end of the filament.