



Beverage 215m (1 3/8 λ on 160m; 2 9/16 λ on 80m).
 Height 3m.
 Ground rods 2m. No radials.
 Termination 300 Ω. Term & feed at 3m height.
 Copper wire AWG 12.
 Average earth.

Card deck created 07 Mar 22 Thu 00:07:23 -0500 NECInputClean v2.0 2004 Jul

NEC version 4.1.
 K3NA NOUTrim v5.5 2007 Mar 16 Fri.
 NEC x-axis is North azimuth.

1.825 MHz

finite ground. sommerfeld solution
 $\epsilon = 13.0$
 $\sigma = 5.0 \text{ mS/m}$

Drive impedance; voltage or current:
 #1: 605.7 j -75.5 Ω 1.000A ∠ -90.0°

Target 1: 330- 30° az 1-14° el JA 80m elevation. Very low SSN. September
 Target 2: 330- 30° az 1-23° el Eu-NA 80m elevation. Very low SSN. September
 White contour: -3 dB below peak gain.

	Overall	Target 1	Target 2	Target 1+2	Remainder
max dBi:	-9.71	-11.38	-10.09	-10.09	-9.71
az:	360.0°	360.0°	360.0°	360.0°	360.0°
el:	31.5°	13.5°	22.5°	22.5°	31.5°
median dBi:		-14.44	-11.15	-12.63	-23.67
dev above dB:		+0.88	+0.27	+0.71	+5.27
dev below dB:		-1.24	-0.31	-1.16	-1.57
min dBi:		-26.16	-13.42	-26.16	
az:		330.0°	29.9°	330.0°	
el:		1.5°	14.5°	1.5°	
within 3 dB of max:	10.5%	21.8%	96.1%	51.4%	7.8%
below max-30 dB:	2.9%	0.0%	0.0%	0.0%	3.1%
below -15 dBi:	84.1%	44.2%	0.0%	26.6%	87.9%
power efficiency:	0.8%				
receive directivity:	+8.38 dB				
	RDF				