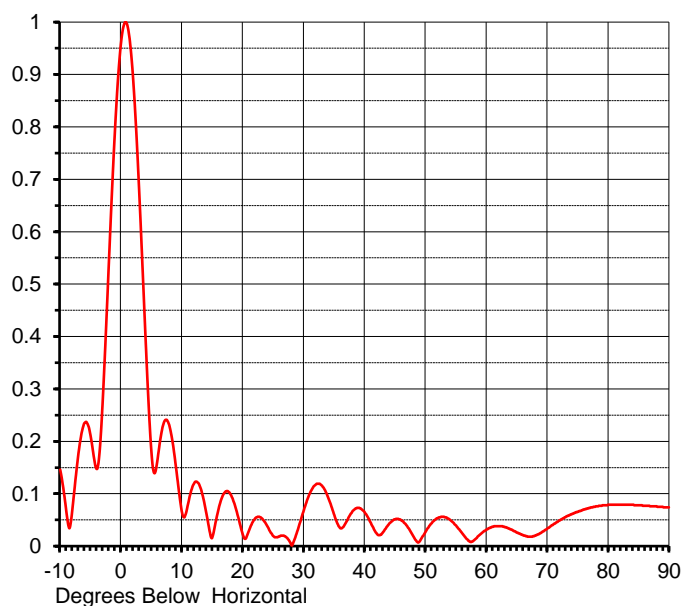
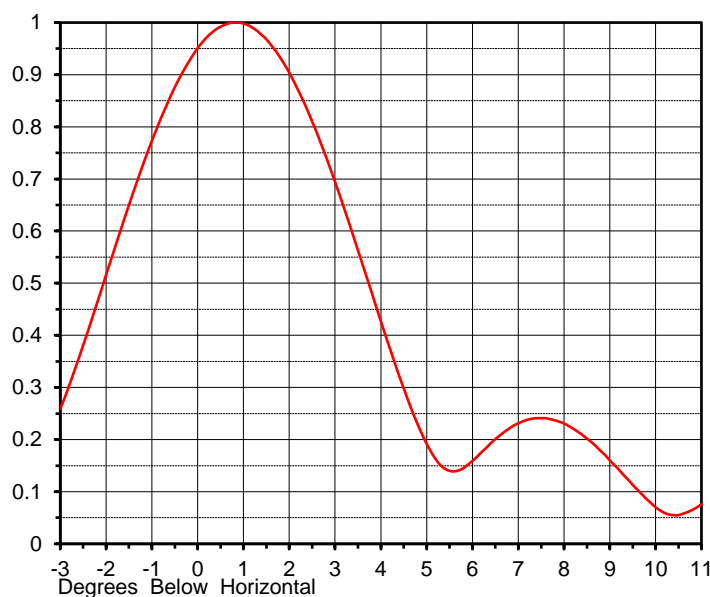


## ELEVATION PATTERN

Proposal No. **C-70522**  
 Date **6-Apr-17**  
 Call Letters **WNCT**  
 Channel **12**  
 Frequency **207 MHz**  
 Antenna Type **THA-O4-6H/24HD-1-R**

RMS Directivity at Main Lobe **12.8 ( 11.06 dB )**  
 RMS Directivity at Horizontal **11.8 ( 10.72 dB )**  
**Calculated**

Beam Tilt **0.70 deg**  
 Pattern Number **6HD128070**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.146	10.0	0.064	30.0	0.069	50.0	0.028	70.0	0.034
-9.0	0.067	11.0	0.081	31.0	0.101	51.0	0.044	71.0	0.042
-8.0	0.070	12.0	0.120	32.0	0.118	52.0	0.054	72.0	0.049
-7.0	0.177	13.0	0.112	33.0	0.115	53.0	0.056	73.0	0.056
-6.0	0.235	14.0	0.062	34.0	0.092	54.0	0.050	74.0	0.061
-5.0	0.210	15.0	0.018	35.0	0.059	55.0	0.039	75.0	0.066
-4.0	0.147	16.0	0.071	36.0	0.034	56.0	0.024	76.0	0.070
-3.0	0.281	17.0	0.102	37.0	0.047	57.0	0.010	77.0	0.073
-2.0	0.543	18.0	0.098	38.0	0.067	58.0	0.012	78.0	0.076
-1.0	0.795	19.0	0.065	39.0	0.073	59.0	0.023	79.0	0.078
0.0	0.962	20.0	0.021	40.0	0.064	60.0	0.032	80.0	0.079
1.0	0.995	21.0	0.030	41.0	0.044	61.0	0.037	81.0	0.079
2.0	0.887	22.0	0.053	42.0	0.023	62.0	0.038	82.0	0.079
3.0	0.669	23.0	0.054	43.0	0.027	63.0	0.036	83.0	0.079
4.0	0.400	24.0	0.038	44.0	0.043	64.0	0.032	84.0	0.079
5.0	0.176	25.0	0.019	45.0	0.051	65.0	0.026	85.0	0.078
6.0	0.167	26.0	0.019	46.0	0.049	66.0	0.021	86.0	0.077
7.0	0.235	27.0	0.018	47.0	0.037	67.0	0.018	87.0	0.076
8.0	0.226	28.0	0.001	48.0	0.018	68.0	0.020	88.0	0.075
9.0	0.151	29.0	0.031	49.0	0.009	69.0	0.026	89.0	0.074
								90.0	0.073

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## Summary

Proposal No.	<b>C-70522</b>
Date	<b>6-Apr-17</b>
Call Letters	<b>WNCT</b>
Channel	<b>12</b>
Frequency	<b>207 MHz</b>
Antenna Type	<b>THA-O4-6H/24HD-</b>

## Antenna

		<b>Hpol</b>
ERP:	<b>35.0 kW</b>	<b>( 15.44 dBk )</b>
RMS Gain*	<b>12.77</b>	<b>( 11.06 dB )</b>

<b>Antenna Input Power</b>	<b>2.7 kW</b>	<b>( 4.38 dBk )</b>
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## Transmission Line

Type:	<b>Rigid Digiline</b>	Attenuation:	<b>( 1.48 dB )</b>
Size:	<b>6-1/8"</b>	Efficiency:	<b>71.2%</b>
Impedance:	<b>50 Ohm</b>		
Length:	<b>1960 ft</b>	<b>597.4 m</b>	

## 4-1/16 Digit EIA 200ft

Attenuation	<b>( 0.18 dB )</b>
Efficiency	<b>95.9%</b>

## Transmitter Output

<b>4.0 kW</b>	<b>( 6.03 dBk )</b>
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Transmitter filter losses not included

\* Directivity and Gain are with respect to half wave dipole. The gain includes feed system losses

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