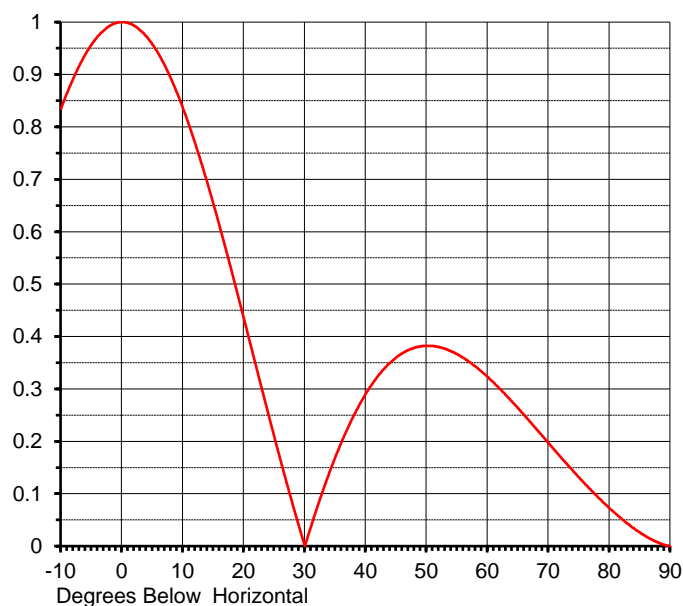
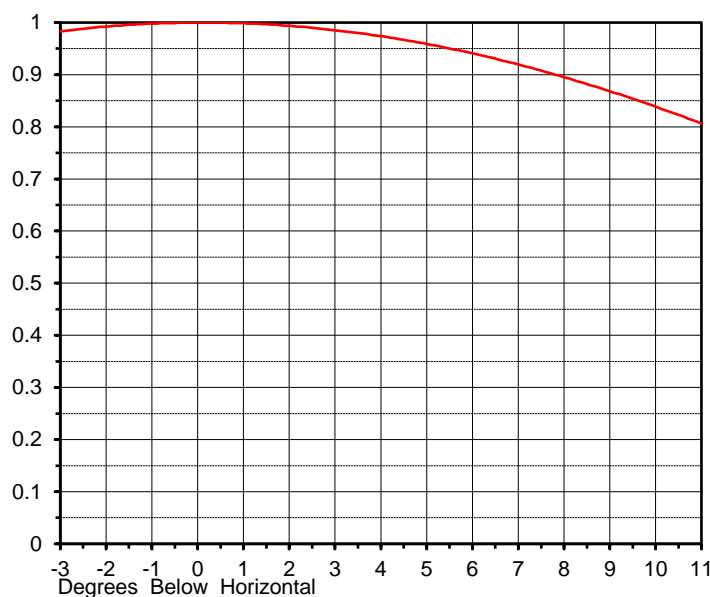


ELEVATION PATTERN

Proposal No. **C-70524**
 Date **5-Apr-17**
 Call Letters **WXXA**
 Channel **11**
 Frequency **201 MHz**
 Antenna Type **THA-O4-1H/4UD-1-R-T**

RMS Directivity at Main Lobe **2.2 (3.42 dB)**
 RMS Directivity at Horizontal **2.2 (3.42 dB)**
Calculated

Beam Tilt **0.00 deg**
 Pattern Number **02H022000**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.835	10.0	0.835	30.0	0.000	50.0	0.382	70.0	0.196
-9.0	0.865	11.0	0.803	31.0	0.037	51.0	0.382	71.0	0.183
-8.0	0.893	12.0	0.768	32.0	0.073	52.0	0.380	72.0	0.170
-7.0	0.917	13.0	0.731	33.0	0.107	53.0	0.377	73.0	0.157
-6.0	0.939	14.0	0.693	34.0	0.140	54.0	0.372	74.0	0.144
-5.0	0.957	15.0	0.652	35.0	0.170	55.0	0.366	75.0	0.131
-4.0	0.973	16.0	0.611	36.0	0.198	56.0	0.359	76.0	0.118
-3.0	0.984	17.0	0.568	37.0	0.224	57.0	0.351	77.0	0.106
-2.0	0.993	18.0	0.524	38.0	0.249	58.0	0.343	78.0	0.095
-1.0	0.998	19.0	0.479	39.0	0.271	59.0	0.333	79.0	0.083
0.0	1.000	20.0	0.434	40.0	0.291	60.0	0.323	80.0	0.072
1.0	0.998	21.0	0.388	41.0	0.309	61.0	0.312	81.0	0.062
2.0	0.993	22.0	0.343	42.0	0.325	62.0	0.300	82.0	0.052
3.0	0.984	23.0	0.297	43.0	0.338	63.0	0.288	83.0	0.043
4.0	0.973	24.0	0.252	44.0	0.350	64.0	0.276	84.0	0.034
5.0	0.957	25.0	0.208	45.0	0.360	65.0	0.263	85.0	0.026
6.0	0.939	26.0	0.164	46.0	0.368	66.0	0.250	86.0	0.018
7.0	0.917	27.0	0.121	47.0	0.374	67.0	0.237	87.0	0.012
8.0	0.893	28.0	0.079	48.0	0.379	68.0	0.223	88.0	0.007
9.0	0.865	29.0	0.039	49.0	0.381	69.0	0.210	89.0	0.002
								90.0	0.000

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Summary

Proposal No.	C-70524
Date	5-Apr-17
Call Letters	WXXA
Channel	11
Frequency	201 MHz
Antenna Type	THA-O4-1H/4UD-1-R-T

Antenna

		Hpol
ERP:	15.0 kW	(11.76 dBk)
RMS Gain*	2.20	(3.42 dB)

Antenna Input Power	6.8 kW	(8.34 dBk)
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Transmission Line

Type:	Flexline Air	Attenuation:	(1.14 dB)
Size:	3"	Efficiency:	77.0%
Impedance:	50 Ohm		
Length:	540 ft	164.6 m	

Transmitter Output

8.9 kW	(9.47 dBk)
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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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