



Exhibit No.

Date

23 Oct 2017

Call Letters

WHMC

Channel

28

Location

Conway, SC

Customer

Antenna Type

TFU-24JTT T190

AZIMUTH PATTERN

Gain

1.9 (2.79 dB)

Frequency

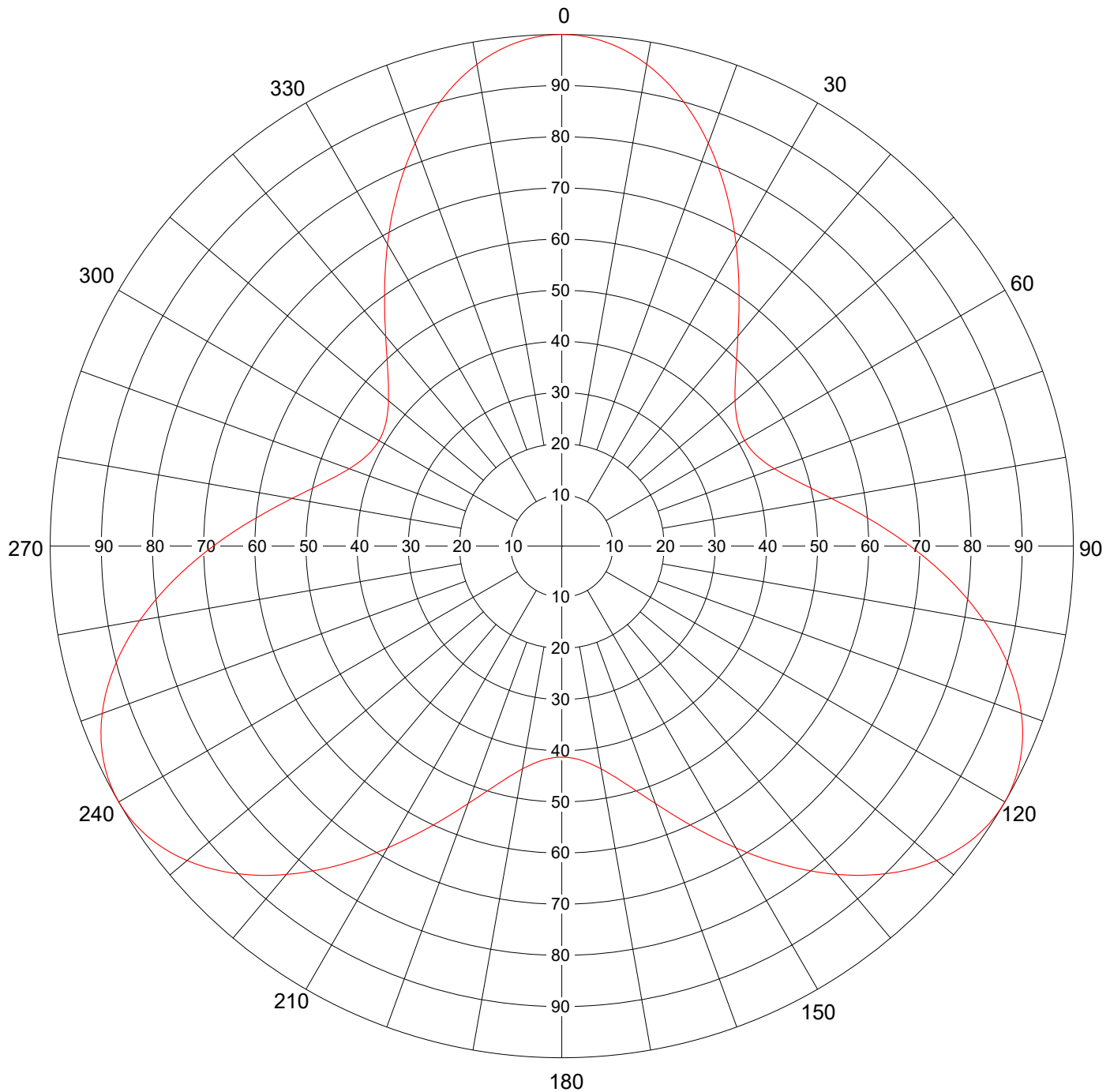
557 MHz

Calculated / Measured

Calculated

Drawing #

TFU-T190



Remarks:



Date **23 Oct 2017**
Call Letters **WHMC** Channel **28**
Location **Conway, SC**
Customer
Antenna Type **TFU-24JTT T190**

TABULATION OF AZIMUTH PATTERNAzimuth Pattern Drawing # **TFU-T190**

Angle	Field	ERP (kW)	ERP (dBk)
0	1.000	4893.0	36.90
10	0.956	4471.9	36.50
20	0.838	3436.1	35.36
30	0.681	2269.2	33.56
40	0.536	1405.7	31.48
50	0.442	955.9	29.80
60	0.413	834.6	29.21
70	0.442	955.9	29.80
80	0.536	1405.7	31.48
90	0.681	2269.2	33.56
100	0.838	3436.1	35.36
110	0.956	4471.9	36.50
120	1.000	4893.0	36.90
130	0.956	4471.9	36.50
140	0.838	3436.1	35.36
150	0.681	2269.2	33.56
160	0.536	1405.7	31.48
170	0.442	955.9	29.80
180	0.413	834.6	29.21
190	0.442	955.9	29.80
200	0.536	1405.7	31.48
210	0.681	2269.2	33.56
220	0.838	3436.1	35.36
230	0.956	4471.9	36.50
240	1.000	4893.0	36.90
250	0.956	4471.9	36.50
260	0.838	3436.1	35.36
270	0.681	2269.2	33.56
280	0.536	1405.7	31.48
290	0.442	955.9	29.80
300	0.413	834.6	29.21
310	0.442	955.9	29.80
320	0.536	1405.7	31.48
330	0.681	2269.2	33.56
340	0.838	3436.1	35.36
350	0.956	4471.9	36.50

Maxima

Angle	Field	ERP (kW)	ERP (dBk)
0	1.000	4893.0	36.90
120	1.000	4893.0	36.90
240	1.000	4893.0	36.90

Minima

Angle	Field	ERP (kW)	ERP (dBk)
60	0.413	834.6	29.21
180	0.413	834.6	29.21
300	0.413	834.6	29.21

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ELEVATION PATTERN

RMS Gain at Main Lobe

24.5 (13.89 dB)

Beam Tilt

0.50 Degrees

RMS Gain at Horizontal

21.2 (13.26 dB)

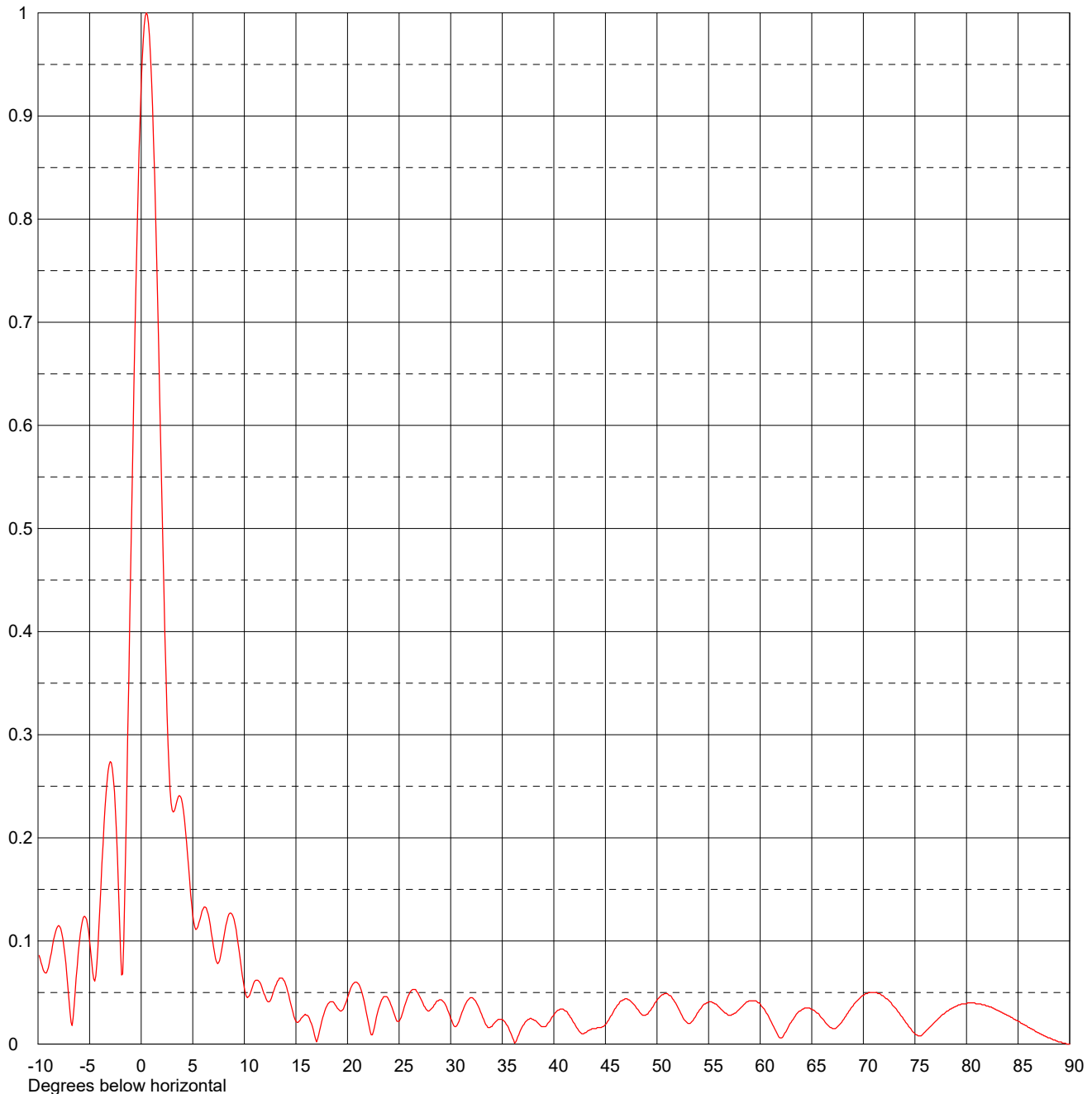
Frequency

557.00 MHz

Calculated / Measured

Calculated

Drawing #

24N245050-90

Remarks:



Date

23 Oct 2017

Call Letters

WHMC

Channel

28

Location

Conway, SC

Customer

Antenna Type

TFU-24JTT T190**TABULATION OF ELEVATION PATTERN**

Elevation Pattern Drawing #

24N245050-90

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.089	2.4	0.357	10.6	0.050	30.5	0.017	51.0	0.049	71.5	0.049
-9.5	0.072	2.6	0.291	10.8	0.056	31.0	0.028	51.5	0.044	72.0	0.046
-9.0	0.074	2.8	0.247	11.0	0.061	31.5	0.040	52.0	0.036	72.5	0.042
-8.5	0.101	3.0	0.227	11.5	0.060	32.0	0.045	52.5	0.026	73.0	0.036
-8.0	0.115	3.2	0.226	12.0	0.047	32.5	0.040	53.0	0.020	73.5	0.030
-7.5	0.095	3.4	0.233	12.5	0.042	33.0	0.029	53.5	0.023	74.0	0.023
-7.0	0.043	3.6	0.240	13.0	0.056	33.5	0.018	54.0	0.031	74.5	0.016
-6.5	0.037	3.8	0.240	13.5	0.064	34.0	0.017	54.5	0.038	75.0	0.010
-6.0	0.098	4.0	0.233	14.0	0.058	34.5	0.023	55.0	0.041	75.5	0.008
-5.5	0.124	4.2	0.217	14.5	0.039	35.0	0.024	55.5	0.040	76.0	0.012
-5.0	0.100	4.4	0.196	15.0	0.022	35.5	0.018	56.0	0.036	76.5	0.017
-4.5	0.061	4.6	0.171	15.5	0.025	36.0	0.006	56.5	0.031	77.0	0.022
-4.0	0.133	4.8	0.145	16.0	0.028	36.5	0.007	57.0	0.028	77.5	0.027
-3.5	0.230	5.0	0.125	16.5	0.020	37.0	0.018	57.5	0.030	78.0	0.031
-3.0	0.274	5.2	0.113	17.0	0.002	37.5	0.024	58.0	0.034	78.5	0.034
-2.8	0.267	5.4	0.112	17.5	0.022	38.0	0.024	58.5	0.039	79.0	0.037
-2.6	0.245	5.6	0.118	18.0	0.037	38.5	0.020	59.0	0.042	79.5	0.039
-2.4	0.206	5.8	0.125	18.5	0.041	39.0	0.017	59.5	0.042	80.0	0.039
-2.2	0.152	6.0	0.131	19.0	0.035	39.5	0.021	60.0	0.039	80.5	0.040
-2.0	0.090	6.2	0.133	19.5	0.033	40.0	0.028	60.5	0.032	81.0	0.039
-1.8	0.068	6.4	0.129	20.0	0.045	40.5	0.033	61.0	0.023	81.5	0.038
-1.6	0.141	6.6	0.121	20.5	0.058	41.0	0.033	61.5	0.013	82.0	0.037
-1.4	0.244	6.8	0.108	21.0	0.059	41.5	0.028	62.0	0.006	82.5	0.035
-1.2	0.357	7.0	0.095	21.5	0.046	42.0	0.020	62.5	0.012	83.0	0.033
-1.0	0.472	7.2	0.083	22.0	0.022	42.5	0.012	63.0	0.021	83.5	0.030
-0.8	0.585	7.4	0.078	22.5	0.012	43.0	0.011	63.5	0.029	84.0	0.028
-0.6	0.691	7.6	0.081	23.0	0.034	43.5	0.014	64.0	0.033	84.5	0.025
-0.4	0.786	7.8	0.091	23.5	0.046	44.0	0.015	64.5	0.035	85.0	0.022
-0.2	0.867	8.0	0.103	24.0	0.043	44.5	0.016	65.0	0.034	85.5	0.019
0.0	0.931	8.2	0.115	24.5	0.030	45.0	0.019	65.5	0.030	86.0	0.016
0.2	0.974	8.4	0.123	25.0	0.022	45.5	0.027	66.0	0.025	86.5	0.014
0.4	0.997	8.6	0.127	25.5	0.036	46.0	0.035	66.5	0.019	87.0	0.011
0.6	0.998	8.8	0.126	26.0	0.049	46.5	0.042	67.0	0.015	87.5	0.008
0.8	0.977	9.0	0.121	26.5	0.053	47.0	0.044	67.5	0.017	88.0	0.006
1.0	0.936	9.2	0.111	27.0	0.046	47.5	0.041	68.0	0.023	88.5	0.004
1.2	0.877	9.4	0.097	27.5	0.036	48.0	0.035	68.5	0.030	89.0	0.002
1.4	0.804	9.6	0.082	28.0	0.033	48.5	0.029	69.0	0.037	89.5	0.001
1.6	0.718	9.8	0.067	28.5	0.039	49.0	0.029	69.5	0.043	90.0	0.000
1.8	0.626	10.0	0.054	29.0	0.043	49.5	0.035	70.0	0.047		
2.0	0.532	10.2	0.046	29.5	0.038	50.0	0.043	70.5	0.050		
2.2	0.440	10.4	0.046	30.0	0.025	50.5	0.048	71.0	0.050		

Remarks: