



ENGINEERING STATEMENT
OF
BENJAMIN L. PIDEK, P.E.
IN SUPPORT OF AN APPLICATION FOR
CONSTRUCTION PERMIT FOR AN AUXILIARY STATION
WPTV-DT
WEST PALM BEACH, FL

Background

Scripps Media, Inc. (Scripps) is the licensee of WPTV-DT which is authorized to operate its post-transition DTV facility on Channel 12 (BLC DT-20090619ACF) at West Palm Beach, FL, with an ERP of 50 kW at an HAAT of 386m. The tower is located at the following coordinates:

(NAD27)
26° 35' 20" N
80° 12' 44" W

WPTV, in the instant application, is applying for a construction permit for an Auxiliary DTV facility.

Antenna System and Tower

WPTV proposes an Auxiliary DTV facility that would use the same site and tower as its main facility but operate from a side-mounted directional Dielectric TLS-V8/VP-R S185 antenna (patterns and dBk table attached hereto) rather than the top-mounted main antenna. The



antenna will be installed on a tower (ASR#1220033) that has an overall height of 400.5m AMSL (with appurtenances). The antenna will have a center-of-radiation of 295.7m AMSL (with a calculated HAAT of 291m). No modifications to the overall structure height are necessary; however, as part of the DTV transition, Scripps replaced its old analog antenna with a new DTV antenna which made the overall structure height approximately 10.7m shorter (previous overall height of structure was 411.2m AMSL). Scripps has notified the FAA of the change (reduction) in structure height and, once the FAA has processed its notice, Scripps will modify the ASR.

The proposed WPTV auxiliary facility will incorporate both horizontal (63 kW) and vertical polarization (47.8 kW). The vertically polarized radiation component will not exceed the authorized horizontally polarized component in any azimuth.

ERP and Coverage

Scripps proposes to operate the Auxiliary DTV facility with and ERP of 63 kW; the entire principal community of West Palm Beach, FL will be well within the predicted F(50,90) 43dBu contour of this facility. Furthermore, as shown in Figure 1, attached hereto, the predicted 36 dBu F(50,90) contour does not extend beyond the 36 dBu F(50,90) contour of the licensed facility.

Environmental/RFR

This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation. Any other non-RFR conditions that might require the preparation of an EA are beyond the scope of this report; since the structure is existing and registered, such conditions should not be an issue requiring further consideration.

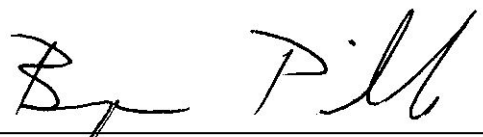
B


The location of the proposed Auxiliary DTV facility is a multi-user site and it is assumed that the site is currently "in compliance" with FCC guidelines for human exposure to RFR (as defined in OET-65). The worst case ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.001732 mW/cm^2 , which is less than 5% (and, in fact, less than 1%) of the MPE for public exposure (0.2 mW/cm^2) at Ch. 12 (204-210 MHz). The contribution to the overall RFR from the proposed facility is negligible and, therefore, the site will remain "in compliance" with FCC guidelines.

Scripps agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the structure. The tower base is enclosed by a locked security fence and appropriate signage warning of potential RFR hazards is posted.

Certification

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.


 Benjamin L. Pidek, P.E.


 John F. X. Browne, P.E.
 September 9, 2010

John F.X. Browne & Associates P.C.

**Noise Limited Contour of WPTV Licensed DTV Facility (Black) vs.
Noise Limited Contour of Proposed Auxiliary Facility (Red)**

WPTV-DT (LIC)

BLCDT20090619ACF
Latitude: 26-35-20 N
Longitude: 080-12-44 W
ERP: 50.00 kW
Channel: 12
Frequency: 207.0 MHz
AMSL Height: 391.0 m

WPTV-Aux (TLS-V8)

Latitude: 26-35-20 N
Longitude: 080-12-44 W
ERP: 63.00 kW
Channel: 12
Frequency: 207.0 MHz
AMSL Height: 296.0 m

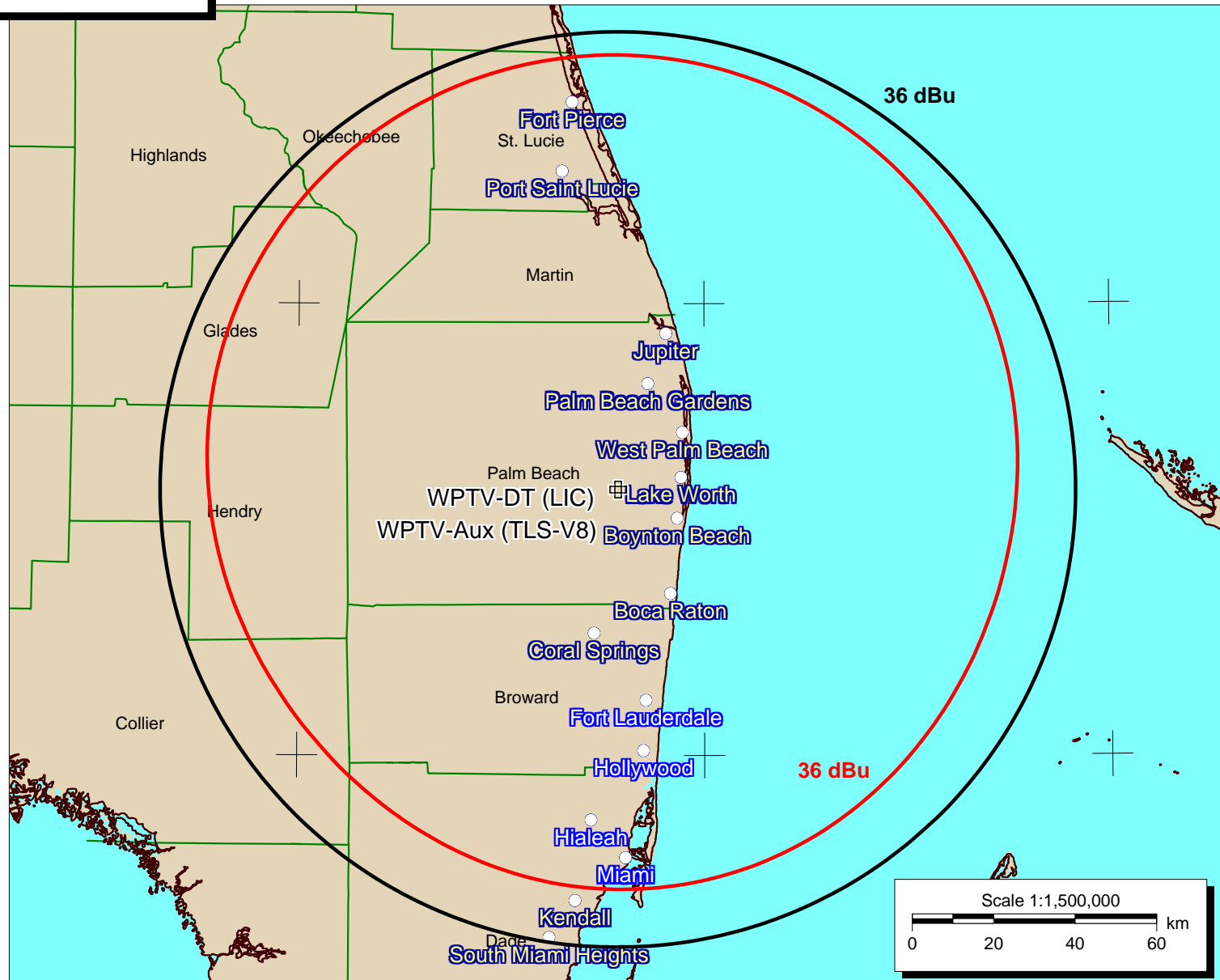


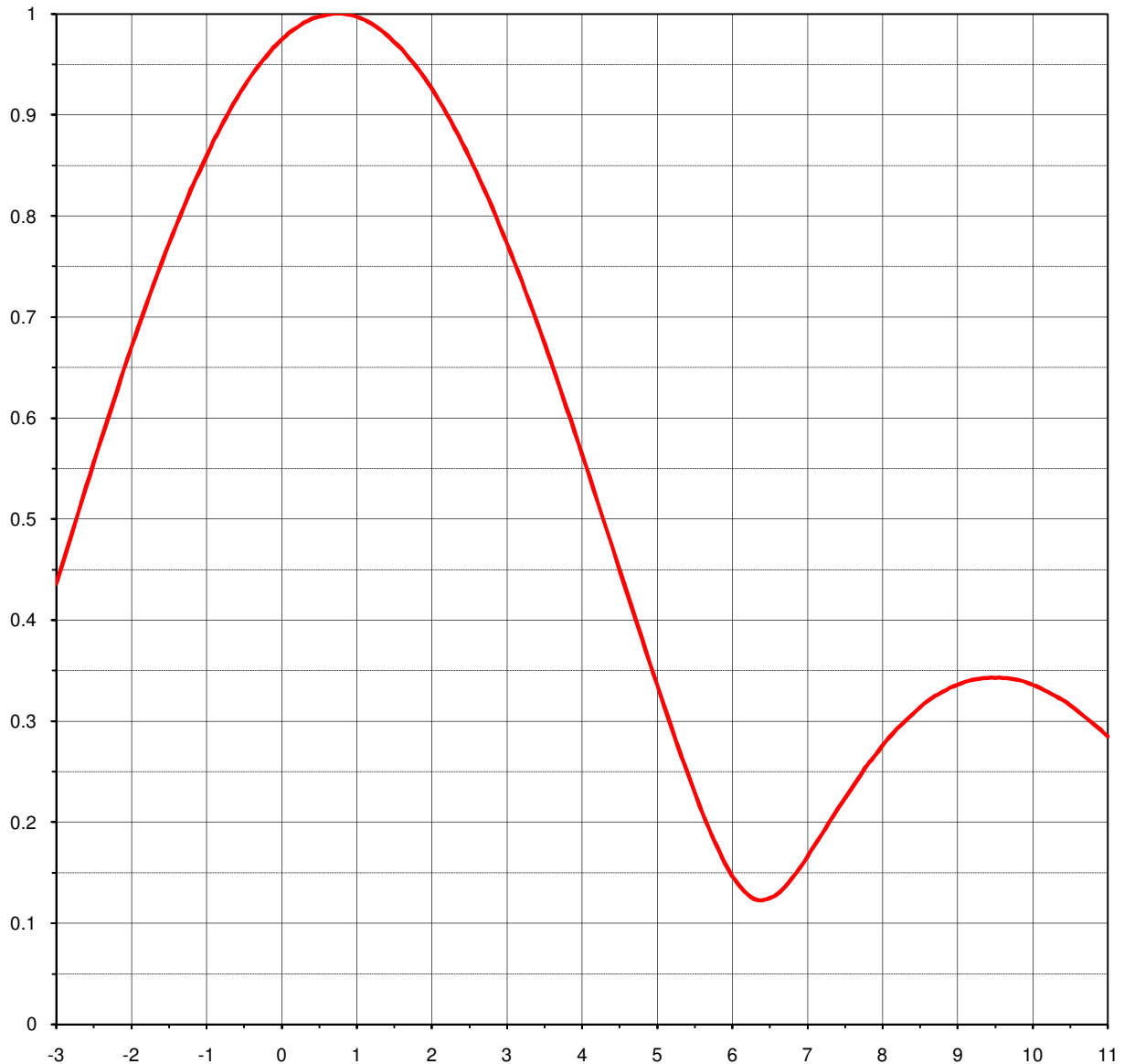
Figure 1
09-01-10



Proposal Number	C-04324	Revision:	1
Date	19-Aug-10		
Call Letters	WPTV-DT	Channel	12
Location	West Palm Beach, FL		
Customer			
Antenna Type	TLS-V8/VP-R S185		

ELEVATION PATTERN

RMS Gain at Main Lobe	8.00 (9.03 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	7.60 (8.81 dB)	Frequency	207.00 MHz
Calculated / Measured	Calculated	Drawing #	08S080075



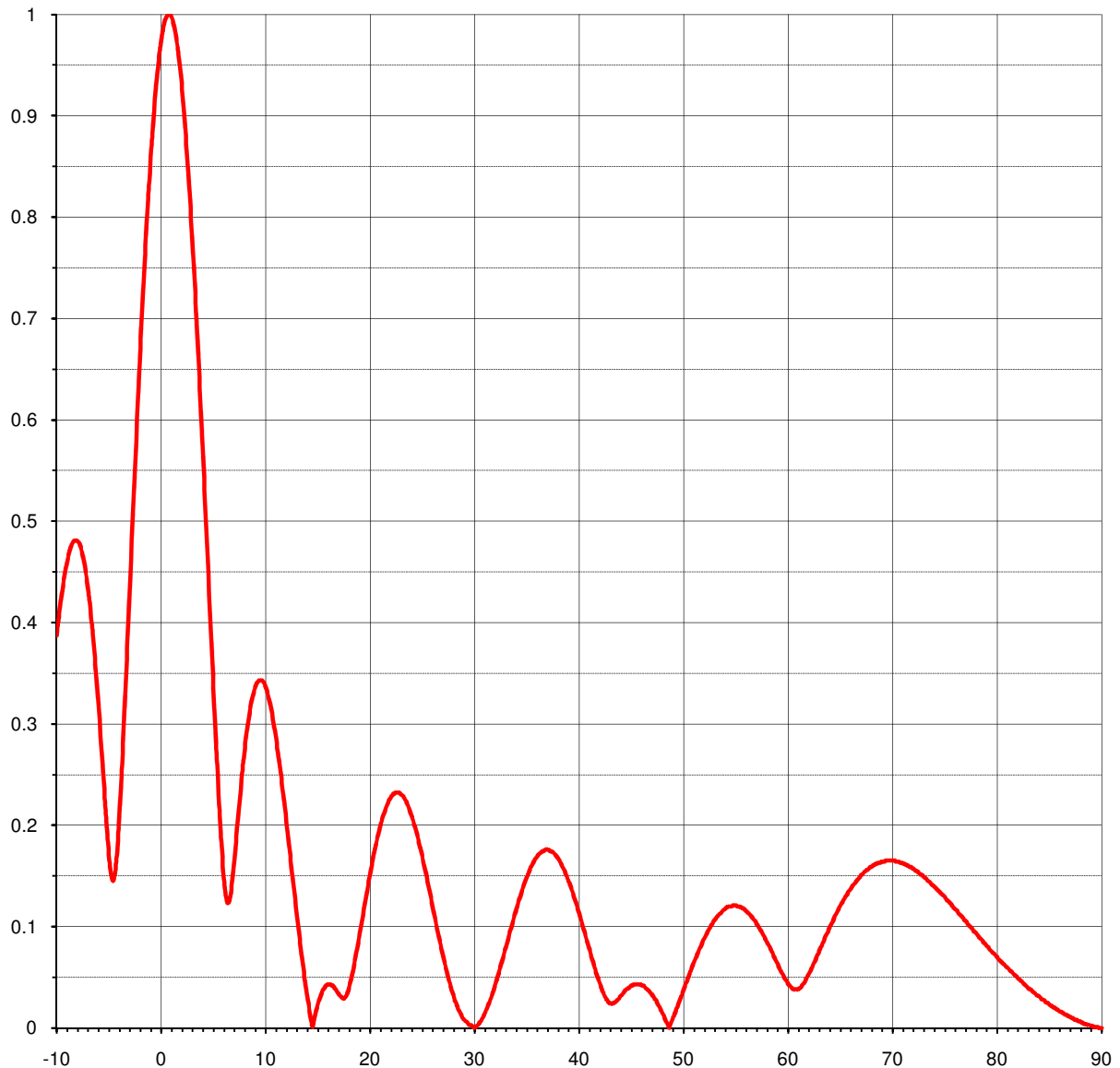
Degrees Below Horizontal



Proposal Number	C-04324	Revision:	1
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Location	West Palm Beach, FL		
Customer			
Antenna Type	TLS-V8/VP-R S185		

ELEVATION PATTERN

RMS Gain at Main Lobe	8.00 (9.03 dB)	Beam Tilt	0.75 deg
RMS Gain at Horizontal	7.60 (8.81 dB)	Frequency	207.00 MHz
Calculated / Measured	Calculated	Drawing #	08S080075-90





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Location **West Palm Beach, FL**
Customer
Antenna Type **TLS-V8/VP-R S185**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **08S080075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.387	2.4	0.873	10.6	0.316	30.5	0.004	51.0	0.063	71.5	0.160
-9.5	0.429	2.6	0.842	10.8	0.304	31.0	0.013	51.5	0.075	72.0	0.157
-9.0	0.460	2.8	0.809	11.0	0.292	31.5	0.025	52.0	0.087	72.5	0.153
-8.5	0.478	3.0	0.773	11.5	0.254	32.0	0.041	52.5	0.097	73.0	0.149
-8.0	0.480	3.2	0.735	12.0	0.211	32.5	0.058	53.0	0.106	73.5	0.144
-7.5	0.466	3.4	0.695	12.5	0.165	33.0	0.077	53.5	0.112	74.0	0.139
-7.0	0.433	3.6	0.653	13.0	0.119	33.5	0.096	54.0	0.117	74.5	0.134
-6.5	0.383	3.8	0.609	13.5	0.075	34.0	0.114	54.5	0.120	75.0	0.129
-6.0	0.318	4.0	0.564	14.0	0.036	34.5	0.131	55.0	0.121	75.5	0.123
-5.5	0.242	4.2	0.519	14.5	0.004	35.0	0.147	55.5	0.119	76.0	0.117
-5.0	0.171	4.4	0.473	15.0	0.020	35.5	0.159	56.0	0.116	76.5	0.111
-4.5	0.148	4.6	0.427	15.5	0.036	36.0	0.168	56.5	0.111	77.0	0.105
-4.0	0.210	4.8	0.381	16.0	0.043	36.5	0.174	57.0	0.104	77.5	0.099
-3.5	0.316	5.0	0.336	16.5	0.042	37.0	0.176	57.5	0.096	78.0	0.093
-3.0	0.436	5.2	0.292	17.0	0.035	37.5	0.174	58.0	0.086	78.5	0.087
-2.8	0.484	5.4	0.250	17.5	0.029	38.0	0.168	58.5	0.076	79.0	0.081
-2.6	0.532	5.6	0.210	18.0	0.037	38.5	0.159	59.0	0.065	79.5	0.075
-2.4	0.579	5.8	0.176	18.5	0.059	39.0	0.147	59.5	0.054	80.0	0.070
-2.2	0.625	6.0	0.147	19.0	0.087	39.5	0.133	60.0	0.045	80.5	0.064
-2.0	0.670	6.2	0.129	19.5	0.117	40.0	0.116	60.5	0.039	81.0	0.059
-1.8	0.712	6.4	0.123	20.0	0.147	40.5	0.098	61.0	0.038	81.5	0.054
-1.6	0.753	6.6	0.129	20.5	0.174	41.0	0.080	61.5	0.043	82.0	0.049
-1.4	0.791	6.8	0.145	21.0	0.197	41.5	0.062	62.0	0.052	82.5	0.044
-1.2	0.827	7.0	0.166	21.5	0.214	42.0	0.046	62.5	0.063	83.0	0.039
-1.0	0.859	7.2	0.189	22.0	0.226	42.5	0.032	63.0	0.074	83.5	0.035
-0.8	0.889	7.4	0.213	22.5	0.232	43.0	0.025	63.5	0.086	84.0	0.031
-0.6	0.916	7.6	0.235	23.0	0.231	43.5	0.025	64.0	0.098	84.5	0.027
-0.4	0.939	7.8	0.257	23.5	0.224	44.0	0.031	64.5	0.111	85.0	0.023
-0.2	0.958	8.0	0.276	24.0	0.211	44.5	0.037	65.0	0.121	85.5	0.020
0.0	0.974	8.2	0.293	24.5	0.194	45.0	0.041	65.5	0.130	86.0	0.016
0.2	0.986	8.4	0.307	25.0	0.173	45.5	0.043	66.0	0.138	86.5	0.013
0.4	0.995	8.6	0.320	25.5	0.149	46.0	0.043	66.5	0.145	87.0	0.011
0.6	0.999	8.8	0.329	26.0	0.124	46.5	0.039	67.0	0.151	87.5	0.008
0.8	1.000	9.0	0.336	26.5	0.098	47.0	0.034	67.5	0.156	88.0	0.006
1.0	0.997	9.2	0.341	27.0	0.074	47.5	0.026	68.0	0.159	88.5	0.004
1.2	0.990	9.4	0.343	27.5	0.052	48.0	0.016	68.5	0.162	89.0	0.002
1.4	0.979	9.6	0.343	28.0	0.034	48.5	0.005	69.0	0.164	89.5	0.001
1.6	0.965	9.8	0.342	28.5	0.019	49.0	0.008	69.5	0.165	90.0	0.000
1.8	0.947	10.0	0.339	29.0	0.009	49.5	0.021	70.0	0.165		
2.0	0.926	10.2	0.333	29.5	0.004	50.0	0.035	70.5	0.164		
2.2	0.901	10.4	0.325	30.0	0.001	50.5	0.049	71.0	0.162		

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Proposal Number	C-04324	Revision:	1
Date	19-Aug-10		
Call Letters	WPTV-DT	Channel	12
Location	West Palm Beach, FL		
Customer			
Antenna Type	TLS-V8/VP-R S185		

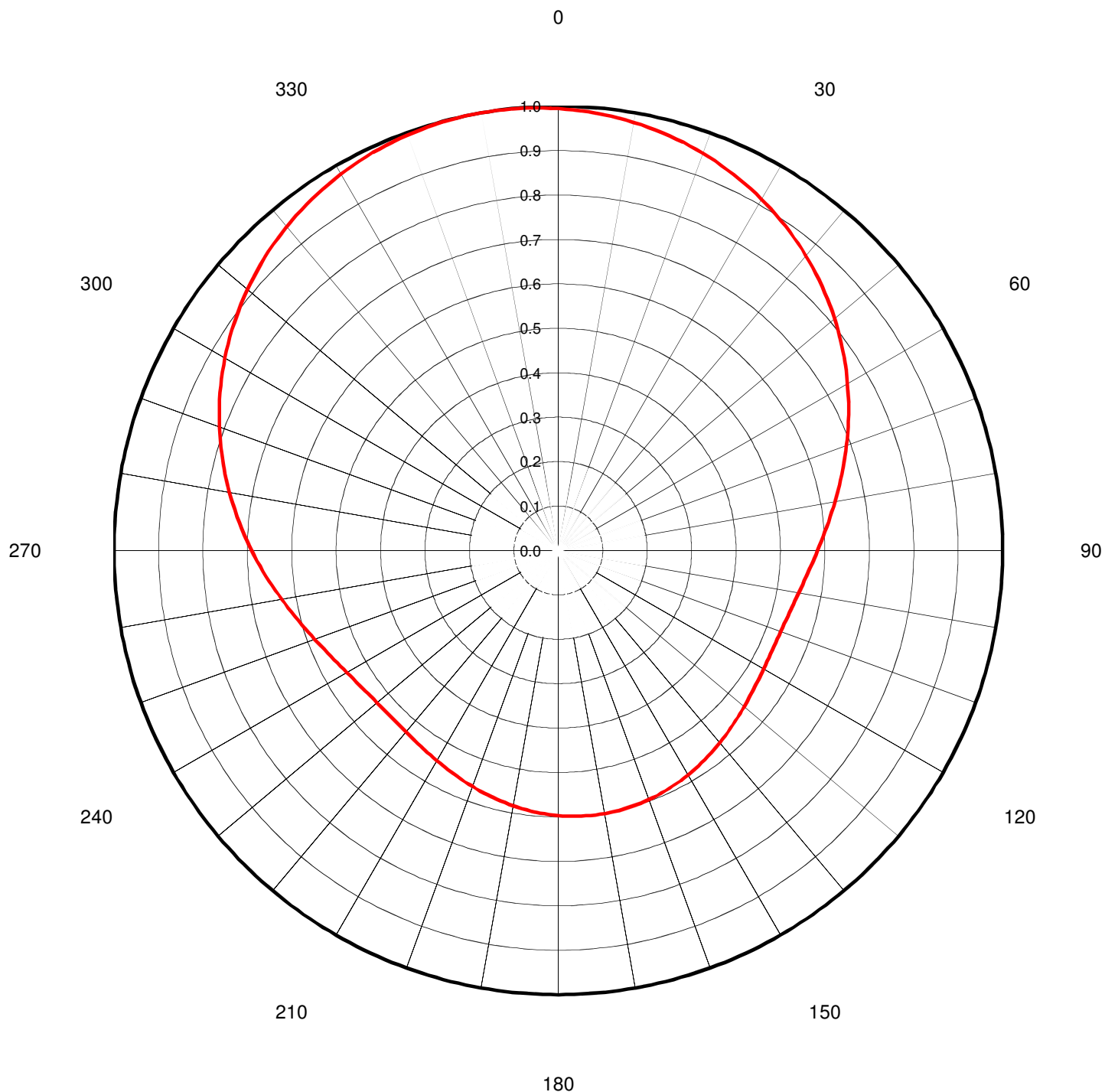
AZIMUTH PATTERN

Gain **1.85**
Calculated / Measured

(2.67 dB)
Calculated

Frequency
Drawing #

207.00 MHz
TLS-S185H-12





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Location **West Palm Beach, FL**
Customer
Antenna Type **TLS-V8/VP-R S185**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TLS-S185H-12**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.995	45	0.840	90	0.584	135	0.556	180	0.597	225	0.531	270	0.690	315	0.933
1	0.993	46	0.834	91	0.580	136	0.557	181	0.596	226	0.531	271	0.696	316	0.937
2	0.992	47	0.829	92	0.576	137	0.559	182	0.595	227	0.532	272	0.702	317	0.941
3	0.991	48	0.823	93	0.572	138	0.561	183	0.594	228	0.532	273	0.709	318	0.944
4	0.989	49	0.817	94	0.568	139	0.563	184	0.592	229	0.532	274	0.715	319	0.948
5	0.988	50	0.812	95	0.565	140	0.565	185	0.591	230	0.533	275	0.721	320	0.951
6	0.986	51	0.806	96	0.561	141	0.567	186	0.590	231	0.534	276	0.727	321	0.954
7	0.984	52	0.800	97	0.558	142	0.569	187	0.588	232	0.535	277	0.733	322	0.957
8	0.982	53	0.794	98	0.555	143	0.571	188	0.587	233	0.536	278	0.739	323	0.960
9	0.980	54	0.788	99	0.552	144	0.573	189	0.585	234	0.538	279	0.745	324	0.963
10	0.978	55	0.782	100	0.550	145	0.575	190	0.584	235	0.539	280	0.752	325	0.966
11	0.976	56	0.776	101	0.547	146	0.577	191	0.582	236	0.541	281	0.758	326	0.969
12	0.974	57	0.770	102	0.545	147	0.579	192	0.580	237	0.543	282	0.764	327	0.971
13	0.971	58	0.764	103	0.543	148	0.580	193	0.579	238	0.545	283	0.770	328	0.974
14	0.969	59	0.758	104	0.541	149	0.582	194	0.577	239	0.547	284	0.776	329	0.976
15	0.966	60	0.752	105	0.539	150	0.584	195	0.575	240	0.550	285	0.782	330	0.978
16	0.963	61	0.745	106	0.538	151	0.585	196	0.573	241	0.552	286	0.788	331	0.980
17	0.960	62	0.739	107	0.536	152	0.587	197	0.571	242	0.555	287	0.794	332	0.982
18	0.957	63	0.733	108	0.535	153	0.588	198	0.569	243	0.558	288	0.800	333	0.984
19	0.954	64	0.727	109	0.534	154	0.590	199	0.567	244	0.561	289	0.806	334	0.986
20	0.951	65	0.721	110	0.533	155	0.591	200	0.565	245	0.565	290	0.812	335	0.988
21	0.948	66	0.715	111	0.532	156	0.592	201	0.563	246	0.568	291	0.817	336	0.989
22	0.944	67	0.709	112	0.532	157	0.594	202	0.561	247	0.572	292	0.823	337	0.991
23	0.941	68	0.702	113	0.532	158	0.595	203	0.559	248	0.576	293	0.829	338	0.992
24	0.937	69	0.696	114	0.531	159	0.596	204	0.557	249	0.580	294	0.834	339	0.993
25	0.933	70	0.690	115	0.531	160	0.597	205	0.556	250	0.584	295	0.840	340	0.995
26	0.930	71	0.684	116	0.532	161	0.598	206	0.554	251	0.588	296	0.845	341	0.996
27	0.926	72	0.678	117	0.532	162	0.598	207	0.552	252	0.592	297	0.851	342	0.996
28	0.922	73	0.672	118	0.532	163	0.599	208	0.550	253	0.597	298	0.856	343	0.997
29	0.918	74	0.666	119	0.533	164	0.600	209	0.548	254	0.602	299	0.861	344	0.998
30	0.913	75	0.660	120	0.534	165	0.600	210	0.546	255	0.606	300	0.866	345	0.999
31	0.909	76	0.655	121	0.534	166	0.601	211	0.545	256	0.611	301	0.872	346	0.999
32	0.905	77	0.649	122	0.535	167	0.601	212	0.543	257	0.616	302	0.877	347	1.000
33	0.900	78	0.643	123	0.536	168	0.601	213	0.542	258	0.622	303	0.882	348	1.000
34	0.896	79	0.638	124	0.538	169	0.601	214	0.540	259	0.627	304	0.886	349	1.000
35	0.891	80	0.632	125	0.539	170	0.601	215	0.539	260	0.632	305	0.891	350	1.000
36	0.886	81	0.627	126	0.540	171	0.601	216	0.538	261	0.638	306	0.896	351	1.000
37	0.882	82	0.622	127	0.542	172	0.601	217	0.536	262	0.643	307	0.900	352	1.000
38	0.877	83	0.616	128	0.543	173	0.601	218	0.535	263	0.649	308	0.905	353	1.000
39	0.872	84	0.611	129	0.545	174	0.601	219	0.534	264	0.655	309	0.909	354	0.999
40	0.867	85	0.606	130	0.546	175	0.600	220	0.534	265	0.660	310	0.913	355	0.999
41	0.861	86	0.602	131	0.548	176	0.600	221	0.533	266	0.666	311	0.918	356	0.998
42	0.856	87	0.597	132	0.550	177	0.599	222	0.532	267	0.672	312	0.922	357	0.997
43	0.851	88	0.592	133	0.552	178	0.598	223	0.532	268	0.678	313	0.926	358	0.996
44	0.845	89	0.588	134	0.554	179	0.598	224	0.532	269	0.684	314	0.930	359	0.996

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DIRECTIONAL ANTENNA DATA
WPTV-DT AUX
dBk Table

Actual Bearing	Pattern Azimuth	Relative Field	ERP (dBk)	CONTOURS(km)	
				43 dBu	36 dBu
N000E	0.00	0.995	17.95	93.5	106.6
	10.00	0.978	17.80		
	20.00	0.951	17.56		
	30.00	0.913	17.20		
	40.00	0.867	16.75		
N045E	45.00	0.840	16.48	90.9	103.6
	50.00	0.812	16.18		
	60.00	0.752	15.52		
	70.00	0.690	14.77		
	80.00	0.632	14.01		
N090E	90.00	0.584	13.32	85.4	97.7
	100.00	0.550	12.80		
	110.00	0.533	12.53		
	120.00	0.534	12.54		
	130.00	0.546	12.74		
N135E	135.00	0.556	12.89	84.6	97.0
	140.00	0.565	13.03		
	150.00	0.584	13.32		
	160.00	0.597	13.51		
	170.00	0.601	13.57		
N180E	180.00	0.597	13.51	85.7	98.1
	190.00	0.584	13.32		
	200.00	0.565	13.03		
	210.00	0.546	12.74		
	220.00	0.534	12.54		
N225E	225.00	0.531	12.50	84.1	96.4
	230.00	0.533	12.53		
	240.00	0.550	12.80		
	250.00	0.584	13.32		
	260.00	0.632	14.01		
N270E	270.00	0.690	14.77	88.0	100.4
	280.00	0.752	15.52		
	290.00	0.812	16.18		
	300.00	0.866	16.74		
	310.00	0.913	17.20		
N315E	315.00	0.933	17.39	92.5	105.5
	320.00	0.951	17.56		
	330.00	0.978	17.80		
	340.00	0.995	17.95		
	350.00	1.000	17.99		

Maximum: N350E 17.99 dBk

Minima: N225E 12.50 dBk