



Proposal Number

Revision

Date

07 Sep 2001

Call Letters

WVTV-DT

Channel

61

Location

Milwaukee, WI

Customer

Antenna Type

TFU-24DSB-H (C)

AZIMUTH PATTERN

RMS Gain at Main Lobe

1.70 (2.30 dB)

Frequency

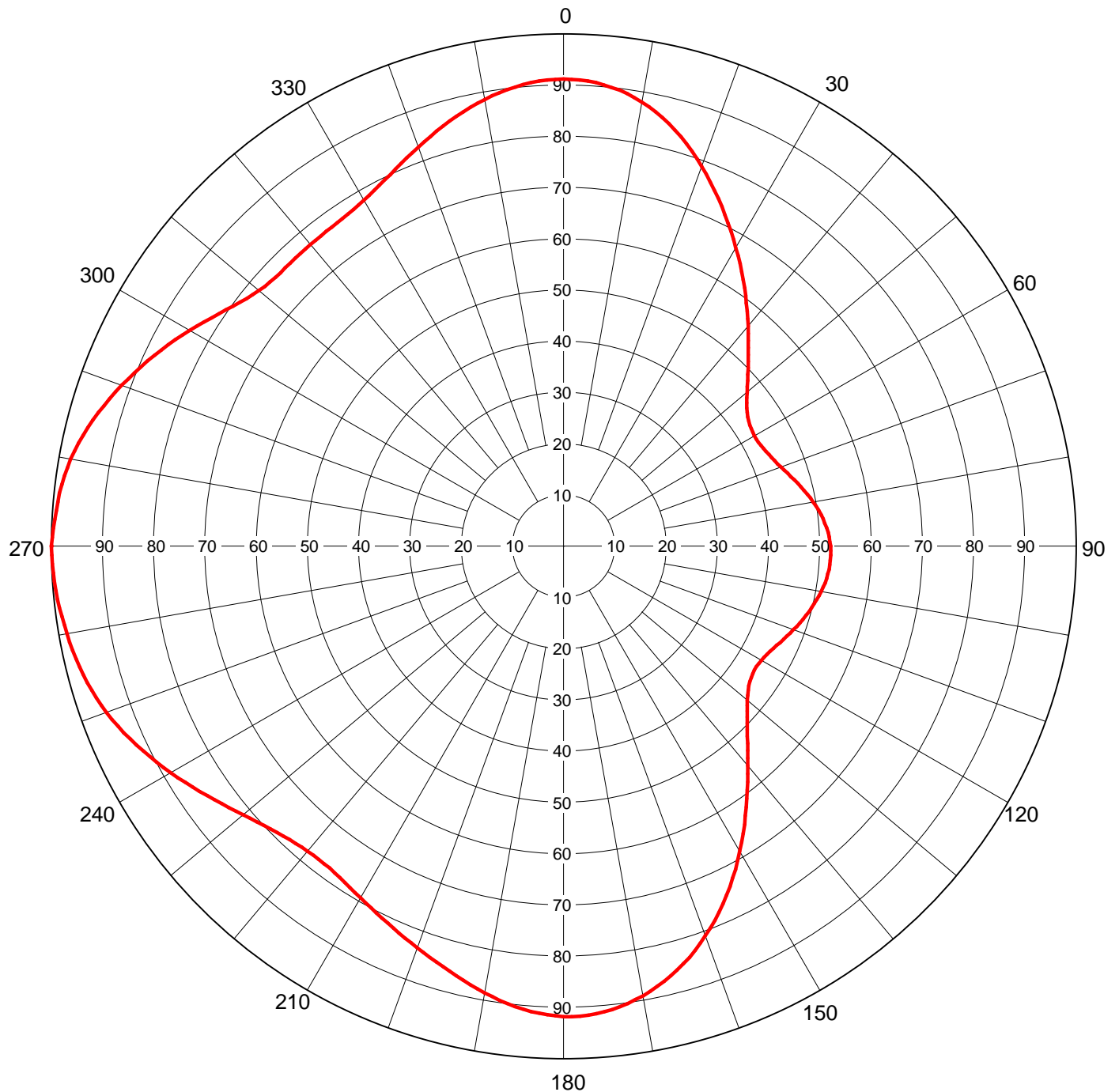
755 MHz

Calculated / Measured

Calculated

Drawing #

DSB-H



Remarks:



Proposal Number
 Date **07 Sep 2001**
 Call Letters **WVTV-DT** Channel **61**
 Location **Milwaukee, WI**
 Customer
 Antenna Type **TFU-24DSB-H (C)**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **DSB-H**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.911	45	0.510	90	0.521	135	0.507	180	0.918	225	0.791	270	1.000	315	0.768
1	0.911	46	0.500	91	0.522	136	0.517	181	0.917	226	0.795	271	0.998	316	0.768
2	0.910	47	0.492	92	0.522	137	0.527	182	0.915	227	0.800	272	0.996	317	0.768
3	0.909	48	0.483	93	0.522	138	0.537	183	0.913	228	0.805	273	0.994	318	0.768
4	0.906	49	0.475	94	0.521	139	0.548	184	0.911	229	0.811	274	0.993	319	0.768
5	0.904	50	0.467	95	0.520	140	0.560	185	0.907	230	0.816	275	0.991	320	0.768
6	0.900	51	0.460	96	0.519	141	0.571	186	0.904	231	0.822	276	0.989	321	0.768
7	0.896	52	0.454	97	0.517	142	0.584	187	0.900	232	0.829	277	0.986	322	0.768
8	0.891	53	0.448	98	0.515	143	0.596	188	0.895	233	0.835	278	0.984	323	0.769
9	0.886	54	0.443	99	0.513	144	0.609	189	0.890	234	0.842	279	0.980	324	0.769
10	0.880	55	0.439	100	0.511	145	0.622	190	0.885	235	0.849	280	0.977	325	0.770
11	0.873	56	0.436	101	0.508	146	0.635	191	0.880	236	0.856	281	0.972	326	0.771
12	0.866	57	0.433	102	0.505	147	0.648	192	0.875	237	0.863	282	0.968	327	0.772
13	0.858	58	0.432	103	0.502	148	0.661	193	0.870	238	0.870	283	0.962	328	0.774
14	0.850	59	0.431	104	0.499	149	0.675	194	0.865	239	0.878	284	0.957	329	0.776
15	0.841	60	0.430	105	0.496	150	0.688	195	0.859	240	0.885	285	0.951	330	0.779
16	0.831	61	0.430	106	0.492	151	0.701	196	0.854	241	0.892	286	0.945	331	0.783
17	0.821	62	0.431	107	0.489	152	0.714	197	0.849	242	0.899	287	0.938	332	0.786
18	0.810	63	0.432	108	0.485	153	0.727	198	0.844	243	0.906	288	0.931	333	0.791
19	0.800	64	0.434	109	0.481	154	0.740	199	0.839	244	0.913	289	0.924	334	0.795
20	0.788	65	0.436	110	0.477	155	0.752	200	0.834	245	0.919	290	0.917	335	0.800
21	0.777	66	0.438	111	0.474	156	0.765	201	0.830	246	0.926	291	0.910	336	0.805
22	0.766	67	0.441	112	0.470	157	0.777	202	0.825	247	0.932	292	0.903	337	0.811
23	0.754	68	0.444	113	0.466	158	0.788	203	0.821	248	0.938	293	0.896	338	0.817
24	0.742	69	0.448	114	0.463	159	0.799	204	0.816	249	0.944	294	0.888	339	0.823
25	0.731	70	0.452	115	0.459	160	0.810	205	0.812	250	0.949	295	0.881	340	0.828
26	0.719	71	0.456	116	0.456	161	0.820	206	0.808	251	0.954	296	0.873	341	0.835
27	0.707	72	0.460	117	0.453	162	0.830	207	0.804	252	0.958	297	0.865	342	0.841
28	0.696	73	0.464	118	0.450	163	0.839	208	0.800	253	0.963	298	0.858	343	0.847
29	0.684	74	0.468	119	0.448	164	0.848	209	0.796	254	0.967	299	0.850	344	0.853
30	0.673	75	0.473	120	0.446	165	0.856	210	0.793	255	0.970	300	0.842	345	0.858
31	0.661	76	0.477	121	0.445	166	0.864	211	0.789	256	0.973	301	0.834	346	0.864
32	0.650	77	0.482	122	0.444	167	0.872	212	0.786	257	0.976	302	0.827	347	0.870
33	0.638	78	0.486	123	0.444	168	0.879	213	0.783	258	0.979	303	0.819	348	0.875
34	0.627	79	0.491	124	0.445	169	0.885	214	0.781	259	0.982	304	0.811	349	0.880
35	0.615	80	0.495	125	0.447	170	0.891	215	0.779	260	0.984	305	0.804	350	0.885
36	0.604	81	0.499	126	0.450	171	0.896	216	0.777	261	0.986	306	0.797	351	0.890
37	0.593	82	0.503	127	0.453	172	0.901	217	0.776	262	0.989	307	0.791	352	0.894
38	0.582	83	0.506	128	0.458	173	0.906	218	0.776	263	0.991	308	0.785	353	0.898
39	0.571	84	0.509	129	0.463	174	0.909	219	0.776	264	0.993	309	0.780	354	0.901
40	0.560	85	0.512	130	0.468	175	0.912	220	0.777	265	0.994	310	0.776	355	0.904
41	0.550	86	0.515	131	0.475	176	0.915	221	0.779	266	0.996	311	0.773	356	0.906
42	0.539	87	0.517	132	0.482	177	0.917	222	0.781	267	0.997	312	0.770	357	0.909
43	0.529	88	0.519	133	0.490	178	0.918	223	0.784	268	0.998	313	0.769	358	0.910
44	0.519	89	0.520	134	0.498	179	0.918	224	0.787	269	0.999	314	0.768	359	0.911

Remarks:



Proposal Number

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Channel

61

Location

Milwaukee, WI

Customer

Antenna Type

TFU-24DSB-H (C)**ELEVATION PATTERN**

RMS Gain at Main Lobe

24.0 (13.80 dB)

Beam Tilt

1.00 Degrees

RMS Gain at Horizontal

11.9 (10.76 dB)

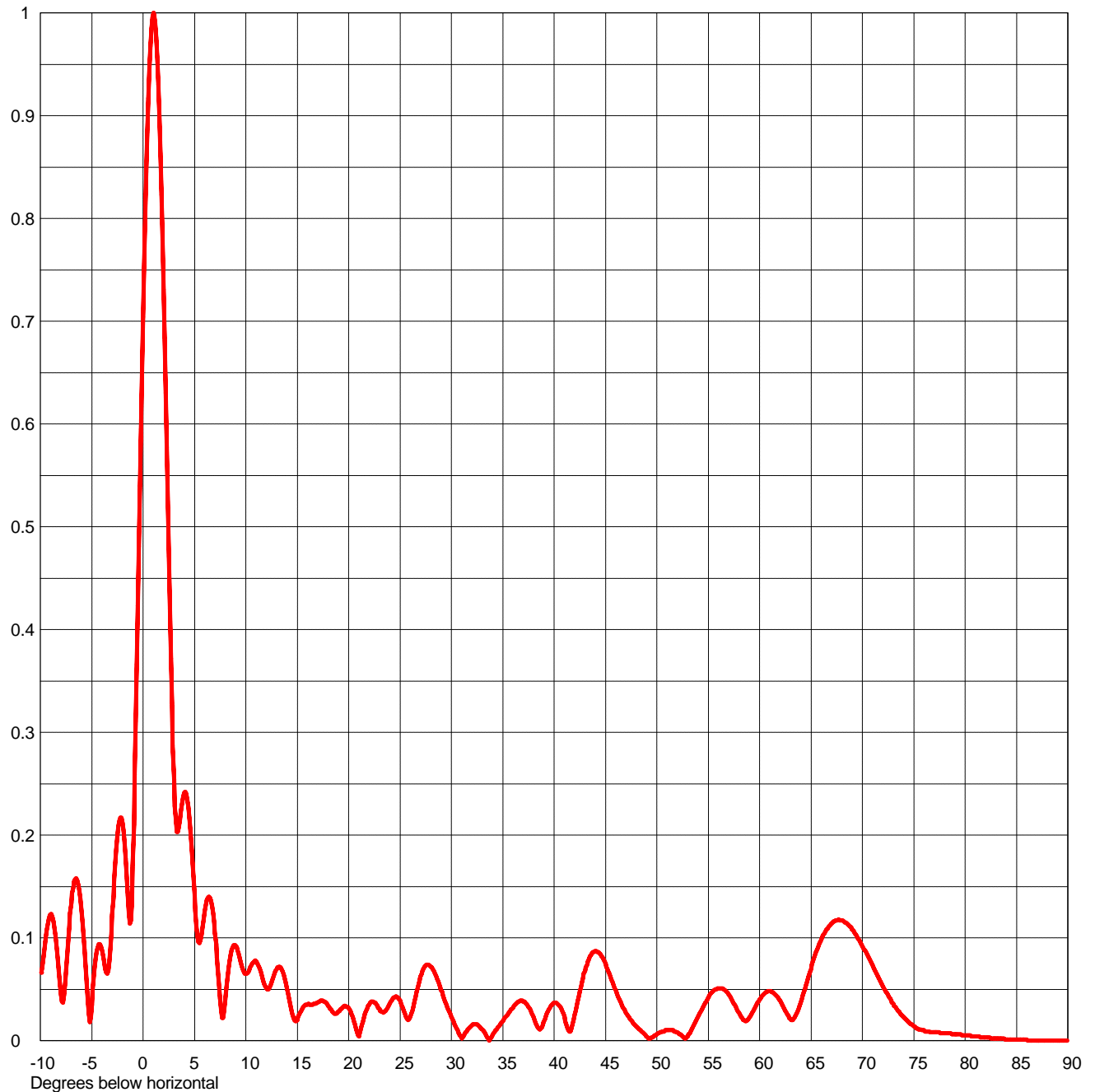
Frequency

755.00 MHz

Calculated / Measured

Calculated

Drawing #

24B240100-90

Remarks:



Proposal Number
 Date **07 Sep 2001**
 Call Letters **WVTV-DT** Channel **61**
 Location **Milwaukee, WI**
 Customer
 Antenna Type **TFU-24DSB-H (C)**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **24B240100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.063	2.4	0.524	10.6	0.075	30.5	0.012	51.0	0.010	71.5	0.063
-9.5	0.099	2.6	0.420	10.8	0.077	31.0	0.002	51.5	0.010	72.0	0.053
-9.0	0.123	2.8	0.327	11.0	0.077	31.5	0.009	52.0	0.008	72.5	0.044
-8.5	0.101	3.0	0.254	11.5	0.066	32.0	0.015	52.5	0.004	73.0	0.036
-8.0	0.045	3.2	0.211	12.0	0.051	32.5	0.016	53.0	0.004	73.5	0.029
-7.5	0.069	3.4	0.203	12.5	0.057	33.0	0.011	53.5	0.013	74.0	0.023
-7.0	0.134	3.6	0.215	13.0	0.070	33.5	0.003	54.0	0.023	74.5	0.018
-6.5	0.158	3.8	0.231	13.5	0.069	34.0	0.005	54.5	0.033	75.0	0.014
-6.0	0.127	4.0	0.241	14.0	0.051	34.5	0.013	55.0	0.042	75.5	0.011
-5.5	0.056	4.2	0.240	14.5	0.026	35.0	0.019	55.5	0.048	76.0	0.010
-5.0	0.035	4.4	0.227	15.0	0.020	35.5	0.025	56.0	0.051	76.5	0.009
-4.5	0.087	4.6	0.203	15.5	0.031	36.0	0.032	56.5	0.050	77.0	0.008
-4.0	0.088	4.8	0.173	16.0	0.035	36.5	0.038	57.0	0.045	77.5	0.008
-3.5	0.065	5.0	0.141	16.5	0.035	37.0	0.038	57.5	0.036	78.0	0.007
-3.0	0.122	5.2	0.112	17.0	0.037	37.5	0.033	58.0	0.027	78.5	0.007
-2.8	0.156	5.4	0.096	17.5	0.039	38.0	0.023	58.5	0.020	79.0	0.006
-2.6	0.186	5.6	0.098	18.0	0.034	38.5	0.012	59.0	0.022	79.5	0.006
-2.4	0.208	5.8	0.111	18.5	0.027	39.0	0.018	59.5	0.031	80.0	0.005
-2.2	0.217	6.0	0.126	19.0	0.028	39.5	0.030	60.0	0.040	80.5	0.005
-2.0	0.212	6.2	0.137	19.5	0.033	40.0	0.037	60.5	0.046	81.0	0.004
-1.8	0.192	6.4	0.140	20.0	0.032	40.5	0.034	61.0	0.048	81.5	0.003
-1.6	0.159	6.6	0.136	20.5	0.019	41.0	0.023	61.5	0.045	82.0	0.003
-1.4	0.124	6.8	0.124	21.0	0.004	41.5	0.009	62.0	0.039	82.5	0.002
-1.2	0.117	7.0	0.105	21.5	0.022	42.0	0.025	62.5	0.029	83.0	0.002
-1.0	0.169	7.2	0.081	22.0	0.035	42.5	0.048	63.0	0.021	83.5	0.002
-0.8	0.259	7.4	0.055	22.5	0.037	43.0	0.068	63.5	0.024	84.0	0.001
-0.6	0.366	7.6	0.030	23.0	0.031	43.5	0.082	64.0	0.037	84.5	0.001
-0.4	0.481	7.8	0.022	23.5	0.028	44.0	0.087	64.5	0.054	85.0	0.001
-0.2	0.595	8.0	0.040	24.0	0.036	44.5	0.084	65.0	0.070	85.5	0.001
0.0	0.704	8.2	0.060	24.5	0.042	45.0	0.075	65.5	0.086	86.0	0.001
0.2	0.802	8.4	0.077	25.0	0.039	45.5	0.062	66.0	0.098	86.5	0.000
0.4	0.884	8.6	0.088	25.5	0.026	46.0	0.049	66.5	0.108	87.0	0.000
0.6	0.946	8.8	0.093	26.0	0.023	46.5	0.037	67.0	0.114	87.5	0.000
0.8	0.985	9.0	0.093	26.5	0.042	47.0	0.027	67.5	0.117	88.0	0.000
1.0	1.000	9.2	0.088	27.0	0.062	47.5	0.020	68.0	0.117	88.5	0.000
1.2	0.990	9.4	0.081	27.5	0.073	48.0	0.014	68.5	0.114	89.0	0.000
1.4	0.956	9.6	0.073	28.0	0.072	48.5	0.009	69.0	0.108	89.5	0.000
1.6	0.899	9.8	0.067	28.5	0.063	49.0	0.004	69.5	0.101	90.0	0.000
1.8	0.823	10.0	0.065	29.0	0.049	49.5	0.003	70.0	0.092		
2.0	0.731	10.2	0.066	29.5	0.036	50.0	0.006	70.5	0.083		
2.2	0.630	10.4	0.071	30.0	0.023	50.5	0.009	71.0	0.073		

Remarks: