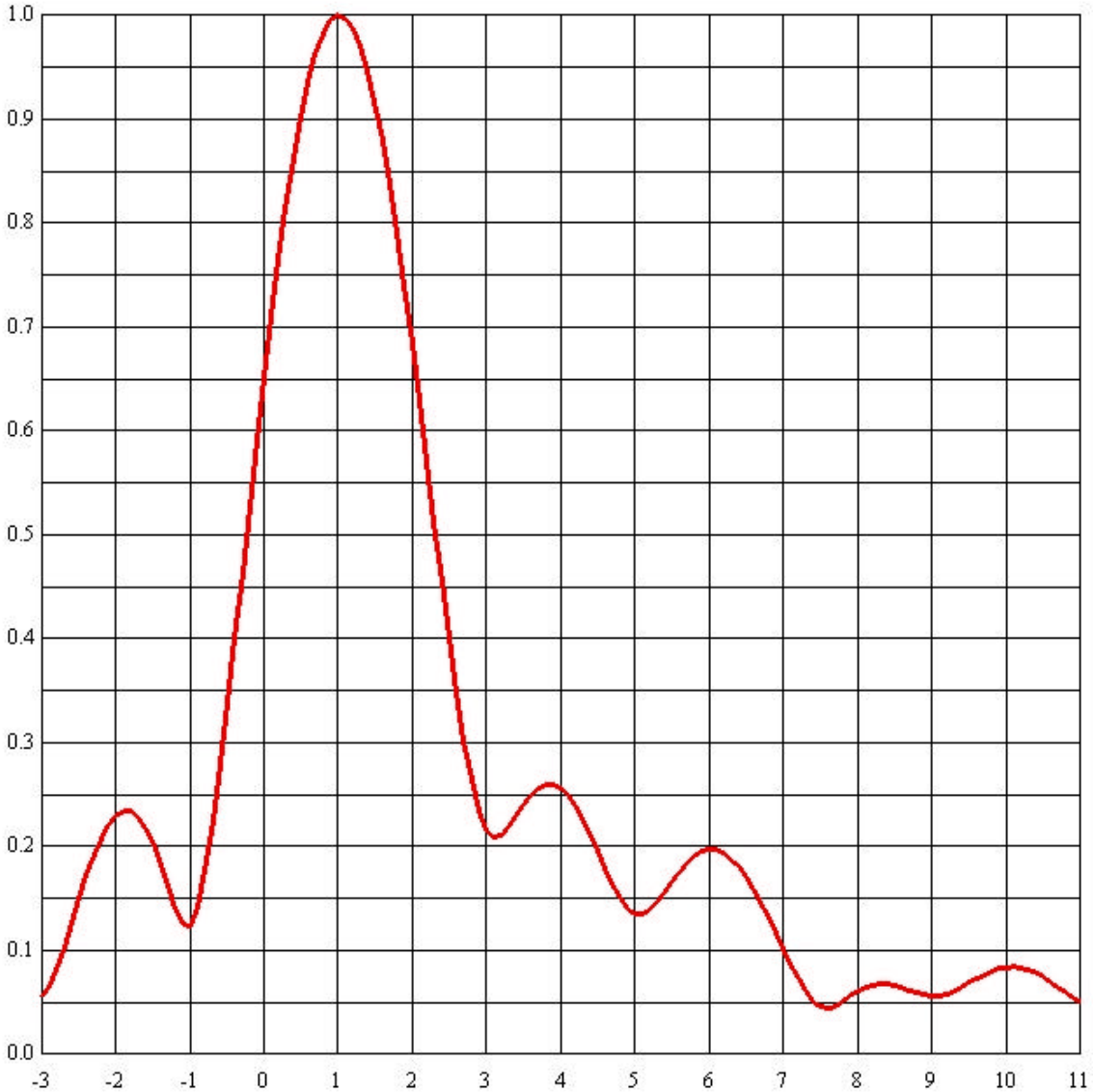
Dielectric
A Unit of SPX Corporation

Specification Number	**1196:1:090816**
Date	**April 2, 2003**
Call Letters	**WTLW**
Channel	**DT47**
Location	**Lima, OH**
Antenna Type	**TLP-24A**
Customer	

Elevation Pattern

RMS Gain at Main Lobe	**23.0**	**13.62 dB**	Beam Tilt	**1 degrees**
RMS Gain at Horizontal	**9.7**	**9.87 dB**	Frequency	**671 MHz**
Calculated / Measured	**Calculated**		Drawing#	**24L230100-90**



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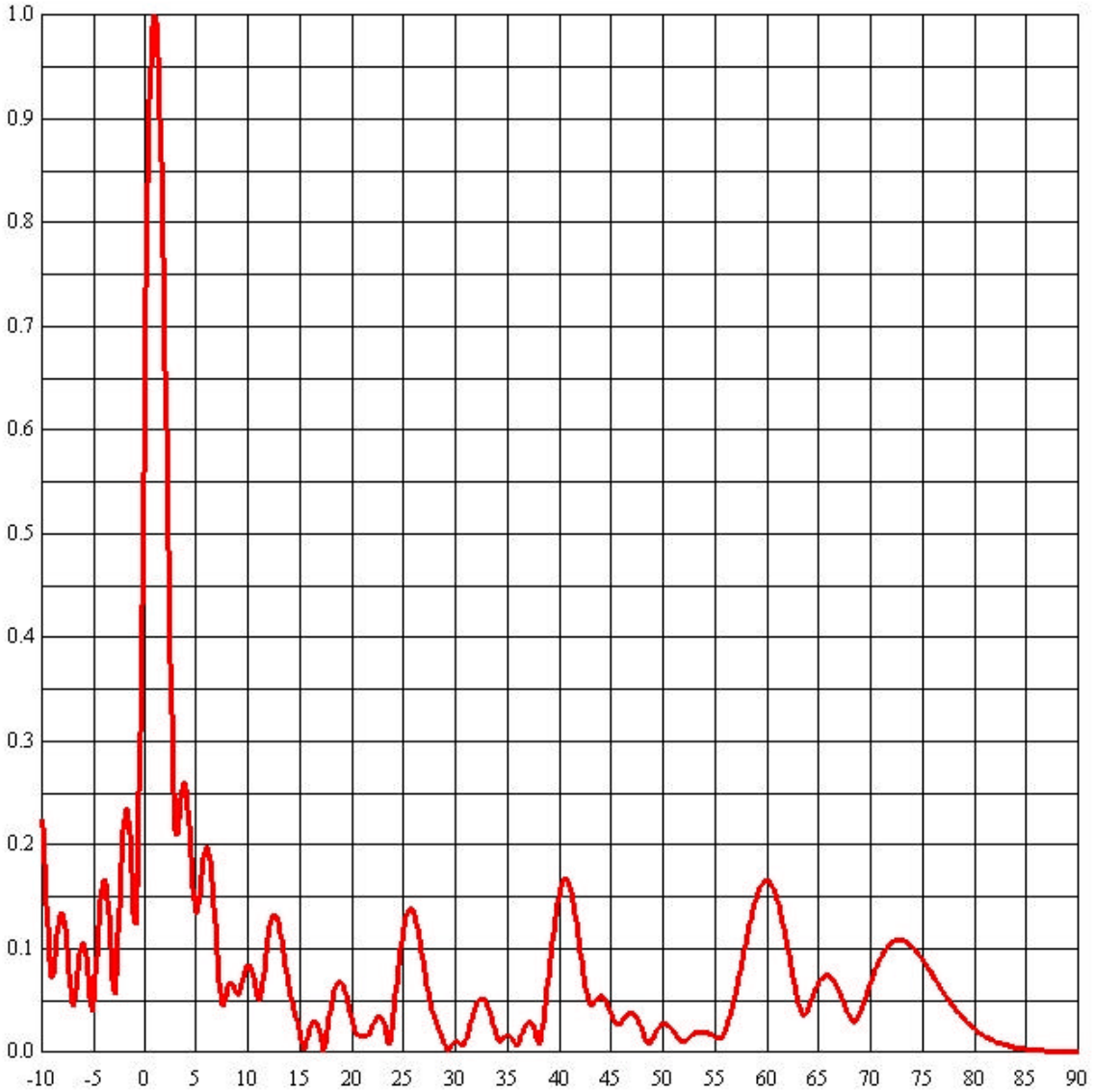

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TABULATION OF ELEVATION PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.225	2.4	0.455	10.6	0.070	30.5	0.008	51.0	0.020	71.5	0.100
-9.5	0.130	2.6	0.348	10.8	0.059	31.0	0.012	51.5	0.013	72.0	0.106
-9.0	0.073	2.8	0.264	11.0	0.052	31.5	0.029	52.0	0.011	72.5	0.108
-8.5	0.118	3.0	0.216	11.5	0.073	32.0	0.045	52.5	0.014	73.0	0.108
-8.0	0.134	3.2	0.211	12.0	0.114	32.5	0.052	53.0	0.018	73.5	0.106
-7.5	0.093	3.4	0.229	12.5	0.133	33.0	0.047	53.5	0.020	74.0	0.102
-7.0	0.044	3.6	0.250	13.0	0.123	33.5	0.032	54.0	0.020	74.5	0.096
-6.5	0.084	3.8	0.260	13.5	0.092	34.0	0.015	54.5	0.018	75.0	0.089
-6.0	0.105	4.0	0.257	14.0	0.061	34.5	0.012	55.0	0.015	75.5	0.082
-5.5	0.068	4.2	0.239	14.5	0.038	35.0	0.017	55.5	0.014	76.0	0.074
-5.0	0.053	4.4	0.211	15.0	0.019	35.5	0.012	56.0	0.021	76.5	0.066
-4.5	0.130	4.6	0.179	15.5	0.005	36.0	0.007	56.5	0.036	77.0	0.058
-4.0	0.167	4.8	0.150	16.0	0.024	36.5	0.020	57.0	0.057	77.5	0.051
-3.5	0.126	5.0	0.136	16.5	0.030	37.0	0.029	57.5	0.082	78.0	0.044
-3.0	0.056	5.2	0.139	17.0	0.016	37.5	0.025	58.0	0.107	78.5	0.038
-2.8	0.081	5.4	0.156	17.5	0.012	38.0	0.008	58.5	0.131	79.0	0.032
-2.6	0.127	5.6	0.176	18.0	0.043	38.5	0.033	59.0	0.150	79.5	0.027
-2.4	0.172	5.8	0.191	18.5	0.064	39.0	0.077	59.5	0.162	80.0	0.023
-2.2	0.208	6.0	0.197	19.0	0.067	39.5	0.120	60.0	0.165	80.5	0.019
-2.0	0.230	6.2	0.194	19.5	0.053	40.0	0.152	60.5	0.161	81.0	0.016
-1.8	0.234	6.4	0.181	20.0	0.031	40.5	0.167	61.0	0.147	81.5	0.013
-1.6	0.218	6.6	0.159	20.5	0.018	41.0	0.160	61.5	0.127	82.0	0.011
-1.4	0.183	6.8	0.132	21.0	0.016	41.5	0.135	62.0	0.101	82.5	0.009
-1.2	0.140	7.0	0.102	21.5	0.016	42.0	0.100	62.5	0.074	83.0	0.007
-1.0	0.124	7.2	0.073	22.0	0.025	42.5	0.065	63.0	0.049	83.5	0.006
-0.8	0.177	7.4	0.051	22.5	0.034	43.0	0.047	63.5	0.036	84.0	0.005
-0.6	0.279	7.6	0.045	23.0	0.031	43.5	0.050	64.0	0.042	84.5	0.004
-0.4	0.400	7.8	0.051	23.5	0.010	44.0	0.054	64.5	0.056	85.0	0.003
-0.2	0.527	8.0	0.061	24.0	0.034	44.5	0.049	65.0	0.067	85.5	0.003
0.0	0.651	8.2	0.067	24.5	0.079	45.0	0.037	65.5	0.073	86.0	0.002
0.2	0.765	8.4	0.068	25.0	0.117	45.5	0.027	66.0	0.073	86.5	0.002
0.4	0.861	8.6	0.064	25.5	0.137	46.0	0.029	66.5	0.068	87.0	0.001
0.6	0.935	8.8	0.060	26.0	0.133	46.5	0.036	67.0	0.058	87.5	0.001
0.8	0.982	9.0	0.056	26.5	0.111	47.0	0.038	67.5	0.045	88.0	0.001
1.0	1.000	9.2	0.058	27.0	0.079	47.5	0.032	68.0	0.034	88.5	0.000
1.2	0.988	9.4	0.064	27.5	0.050	48.0	0.021	68.5	0.030	89.0	0.000
1.4	0.947	9.6	0.073	28.0	0.032	48.5	0.009	69.0	0.038	89.5	0.000
1.6	0.880	9.8	0.080	28.5	0.020	49.0	0.013	69.5	0.052	90.0	0.000
1.8	0.791	10.0	0.084	29.0	0.007	49.5	0.023	70.0	0.067		
2.0	0.685	10.2	0.084	29.5	0.005	50.0	0.027	70.5	0.081		
2.2	0.571	10.4	0.079	30.0	0.011	50.5	0.026	71.0	0.092		