

INDEPENDENT BCST CONSULTANTS, INC.

TRUMANSBURG, NEW YORK

NO. OF TOWERS: 6
POWER: 1000 WATTS

MODE: NIGHTTIME
DATE: 07-09-02

TOWER NO.	HEIGHT			FIELD	SPACING			BEARING {DEG T}	PHASING {DEG}
	{DEG}	{FT}	{M}		{DEG}	{FT}	{M}		
1	81.3	300.0	91.4	1.000	0.0	0.0	0.0	0.0	0.0
2	81.3	300.0	91.4	0.480	119.8	442.3	134.8	26.9	-86.0
3	81.3	300.0	91.4	1.543	235.7	870.2	265.2	19.6	+70.7
4	81.3	300.0	91.4	1.550	289.2	1067.7	325.4	31.5	+178.4
5	81.3	300.0	91.4	0.786	178.4	658.7	200.8	43.2	+4.3
6	81.3	300.0	91.4	0.930	84.0	310.1	94.5	76.3	+126.1

THEOR. VECTOR CONSTANT WITH 1 OHM LOSS/TOWER: 157.05 MV/M/KM

THEOR. HORIZ. PLANE RMS WITH 1 OHM LOSS/TOWER: 297.81 MV/M/KM

THEOR. RSS WITH 1 OHM LOSS/TOWER: 430.00 MV/M/KM

Q: 10.75

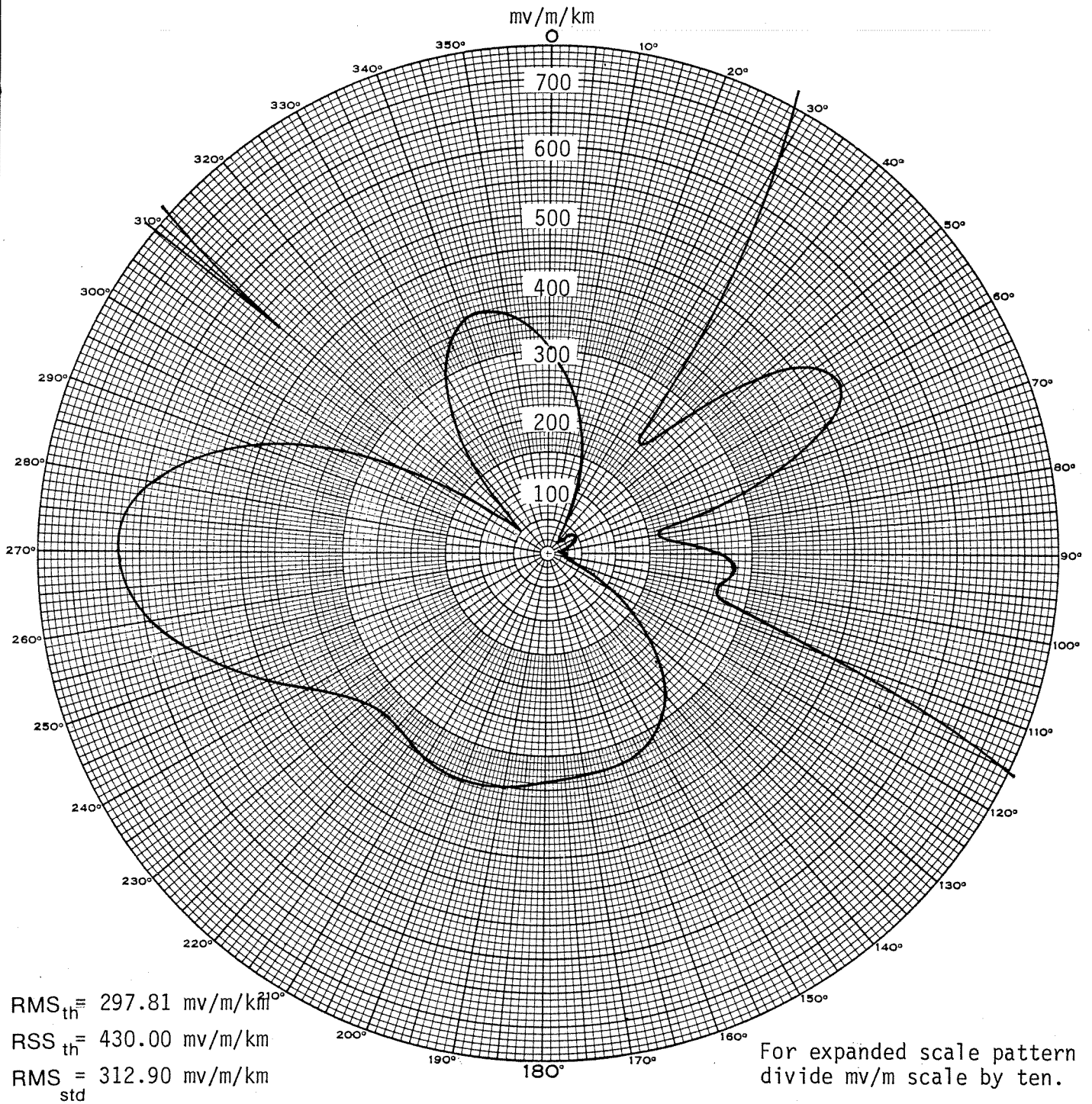
RMS OF STANDARD PATTERN: 312.90 MV/M/KM

COMPUTED RADIATION VALUES ARE IN TERMS OF MV/M AT ONE KILOMETER.

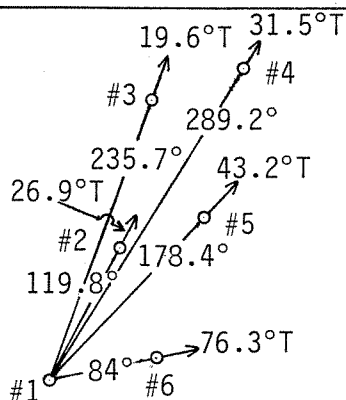
F.C.C. STANDARD HORIZONTAL PLANE RADIATION

TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M	TRUE BEARING DEGREES	FIELD MV/M
.0	305.57	90.0	25.06	180.0	339.45	270.0	632.37
5.0	268.57	95.0	27.71	185.0	345.21	275.0	622.90
10.0	227.94	100.0	25.78	190.0	351.14	280.0	590.42
15.0	185.82	105.0	26.49	195.0	355.70	285.0	534.94
20.0	144.05	110.0	43.15	200.0	357.55	290.0	458.44
25.0	104.24	115.0	74.22	205.0	355.96	295.0	364.77
30.0	68.02	120.0	113.48	210.0	351.13	300.0	259.41
35.0	37.79	125.0	156.49	215.0	344.44	305.0	149.57
40.0	21.24	130.0	199.38	220.0	338.70	310.0	51.91
45.0	28.25	135.0	238.77	225.0	338.02	315.0	83.49
50.0	40.37	140.0	271.99	230.0	346.98	320.0	170.88
55.0	47.90	145.0	297.45	235.0	368.83	325.0	246.49
60.0	49.32	150.0	314.80	240.0	403.90	330.0	304.66
65.0	44.87	155.0	324.91	245.0	449.23	335.0	344.01
70.0	35.81	160.0	329.64	250.0	499.67	340.0	364.91
75.0	24.67	165.0	331.43	255.0	549.09	345.0	368.98
80.0	16.85	170.0	332.67	260.0	591.32	350.0	358.57
85.0	19.01	175.0	335.12	265.0	620.68	355.0	336.48

FIGURE 17B AMENDED



PROPOSED NIGHTTIME HORIZONTAL PLANE STANDARD PATTERN



Theoretical Specs:	
Twr. #	Ratio/Phase
1	1.000/±0°
2	0.480/-86.0°
3	1.543/+70.7°
4	1.550/+178.4°
5	0.786/+4.3°
6	0.930/+126.1°

$G = 81.3^\circ = 300' = 91.4\text{m}$
 (same all towers)

STATION	Proposed New
LOCATION	Fargo, ND
FREQUENCY	740 kHz.
POWER	1000 watts
LATITUDE	N 46° 58' 29"
LONGITUDE	W 96° 30' 12"
MODE	Nighttime
PATTERN	415028-N-P-Amd
DATE	July 09, 2002

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