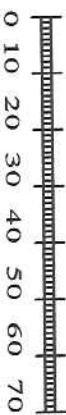


1:1,328,125

Scale in km



WLNS 6 100kW 577M AMSL
WZMU 219A 6kW 316M AMSL

WLNS vs WZMU
AFA - 09/03

Channel-Six TV Protection Study

WLNSTV LI 06- 2C Dom 100.000 kW 305 M HAAT V HN
Lansing MI 577M COR AMSL
N. Lat= 42 41 19, W. Lng= 84 22 35
Young Broadcasting Of Lans BLCT20020103AAA
Fac ID# 538976288, Cutoff Date=
Dist.=141.07 km, Azi=117.0°, Rev Azi=297.0°

Direct line HAAT Grade B, 47 dBu= 105.01 km & Grade A= 55.57 km

Distance from reference to Grade B = 36.06 km

Cutoff Dist from Full Service= 159

Maximum Co-located power= 100 kW

WLNSTV Signal Contour at Reference location = 35.9 dBu

CH. 219, U/D ratio = 36.0 dB, Maximum FM signal = 83.0 dBu , add 6 dB if within angle.

TV/FM D to U values

47.0	83.0		55.0	81.6		63.0	82.0		71.0	85.6		79.0	92.3		87.0	99.2
48.0	82.9		56.0	81.5		64.0	82.2		72.0	86.4		80.0	93.2		88.0	100.1
49.0	82.8		57.0	81.5		65.0	82.4		73.0	87.2		81.0	94.0		89.0	101.0
50.0	82.8		58.0	81.5		66.0	82.8		74.0	88.0		82.0	94.9		90.0	101.8
51.0	82.4		59.0	81.5		67.0	83.3		75.0	88.8		83.0	95.7		91.0	101.8
52.0	82.1		60.0	81.6		68.0	83.7		76.0	89.7		84.0	96.6		92.0	101.8
53.0	81.8		61.0	81.7		69.0	84.3		77.0	90.5		85.0	97.4		93.0	101.8
54.0	81.7		62.0	81.8		70.0	85.0		78.0	91.4		86.0	98.3		94.0	101.8