

## TV6 Calculation for Bradford, PA

Fcc Search

-25.6 dBu

State

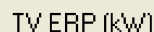
NY

 $H_{\Delta\Delta T}(m)$ 

91

Longitude

774209



0.029

FM Horizontal ERP

36

☒ Outside City Of 50k

TV

47

1

FM

### Plot Scale

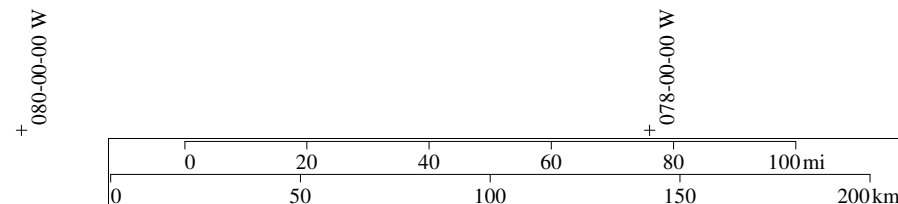
175

☒☐ API☒ HideZeros☒ TIGER☐ Plot All Centroids☐ Plot Inside Centroid Counts☐ Plot All Centroid Counts☒ Plot Contours☐ Print All Centroids to

Print Centroids

☒ Print TV Contour Table

Comp	Cody F	Print Text	Print Error
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## Channel Six TV Protection Study

WGCE-C	06	0.029kW	ERP	228.0M	COR	AMSL	91.0M	H&AT	Lat.	431114	Lon.	774209
120527	213	3.600kW	ERP	687.0M	COR	AMSL	140.0M	H&AT	Lat.	420555	Lon.	782746

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Distance from TV to FM 136.0568km  Azi  27.3degr  Rev Azi 207.3 degr
Cutoff radius for channel 213 is 193 km
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The FM horizontal polarization component is 3.600 kW,  
and the area of just perceptible interference does not intersect a city of 50k,  
so the effective ERP is  $(P_v/40+P_h)$  3.6900kW

The TV6 signal strength at the FM transmit site is -25.591 dBu

For F centroids (centroids where the TV6 signal strength is less than 68 dBu and which are also +/-70 degrees from line from the FM station to the TV station) a 6 dB bonus is added to the allowable FM signal.

TV Contour	Undesired/Desired Ratio	Total	Directional	Total
47	22.6	69.5	75.5	

Population in affected area	0
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2000 Block Centroids used