

W297BJ Tuscaloosa, AL
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.25
 Translator or LPFM Antenna Height AG = 136 Meters
 W297BJ Antenna Model = BEXT TFC2K 4 BAY 3 4 WAVE

Protected Station's Contour = 61.24915 dBu
 Translator's or LPFM's full Interference contour 101.24915

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
 Distance between stations = 70.2 km
 Protected Station= WUHT, 43 kW, 597 M Meters COR AMSL

| Depression Angle From Horizon(Deg) | Vertical Relative Field | Horizontal Relative Field | ERP (kw) | Dist to IX Contour Along Dep. Angle(m) | Dist to IX Contour From Tower Base(m) | Height IX Above Ground (m) |
|--|-------------------------------|---------------------------------|----------|--|---|----------------------------------|
| 00.00 | 1.0 | 1.0 | 0.2500 | 960.5335 | 960.5335 | 136.000 |
| 01.00 | 0.987 | 1.0 | 0.2433 | 947.5663 | 947.4220 | 119.463 |
| 02.00 | 0.973 | 1.0 | 0.2367 | 934.5991 | 934.0297 | 103.383 |
| 03.00 | 0.937 | 1.0 | 0.2193 | 899.5396 | 898.3068 | 088.922 |
| 04.00 | 0.9 | 1.0 | 0.2025 | 864.4801 | 862.3743 | 075.697 |
| 05.00 | 0.843 | 1.0 | 0.1778 | 810.0499 | 806.9674 | 065.400 |
| 06.00 | 0.787 | 1.0 | 0.1547 | 755.6197 | 751.4803 | 057.016 |
| 07.00 | 0.72 | 1.0 | 0.1294 | 691.1038 | 685.9525 | 051.776 |
| 08.00 | 0.651 | 1.0 | 0.1060 | 625.3946 | 619.3083 | 048.962 |
| 09.00 | 0.582 | 1.0 | 0.0847 | 559.0305 | 552.1479 | 048.548 |
| 10.00 | 0.503 | 1.0 | 0.0633 | 483.1484 | 475.8082 | 052.102 |
| 11.00 | 0.424 | 1.0 | 0.0449 | 407.2662 | 399.7836 | 058.290 |
| 12.00 | 0.345 | 1.0 | 0.0298 | 331.3840 | 324.1425 | 067.101 |
| 13.00 | 0.273 | 1.0 | 0.0186 | 262.3171 | 255.5940 | 076.991 |
| 14.00 | 0.201 | 1.0 | 0.0101 | 193.2502 | 187.5099 | 089.249 |
| 15.00 | 0.134 | 1.0 | 0.0045 | 128.7115 | 124.3258 | 102.687 |
| 16.00 | 0.068 | 1.0 | 0.0012 | 065.7596 | 063.2122 | 117.874 |
| 17.00 | 0.013 | 1.0 | 0.0000 | 012.5609 | 012.0120 | 132.328 |
| 18.00 | 0.043 | 1.0 | 0.0005 | 041.1108 | 039.0987 | 123.296 |
| 19.00 | 0.094 | 1.0 | 0.0022 | 090.0980 | 085.1893 | 106.667 |
| 20.00 | 0.132 | 1.0 | 0.0043 | 126.5160 | 118.8861 | 092.729 |
| 21.00 | 0.166 | 1.0 | 0.0069 | 159.7916 | 149.1783 | 078.736 |
| 22.00 | 0.201 | 1.0 | 0.0101 | 193.0672 | 179.0088 | 063.676 |
| 23.00 | 0.219 | 1.0 | 0.0119 | 209.9909 | 193.2977 | 053.950 |
| 24.00 | 0.236 | 1.0 | 0.0140 | 226.9146 | 207.2968 | 043.706 |
| 25.00 | 0.242 | 1.0 | 0.0146 | 232.2469 | 210.4872 | 037.848 |
| 26.00 | 0.246 | 1.0 | 0.0151 | 236.2912 | 212.3772 | 032.417 |
| 27.00 | 0.235 | 1.0 | 0.0138 | 225.6922 | 201.0933 | 033.538 |
| 28.00 | 0.224 | 1.0 | 0.0125 | 215.0932 | 189.9161 | 035.020 |
| 29.00 | 0.212 | 1.0 | 0.0112 | 203.6331 | 178.1015 | 037.277 |
| 30.00 | 0.192 | 1.0 | 0.0092 | 184.4224 | 159.7145 | 043.789 |
| 31.00 | 0.162 | 1.0 | 0.0066 | 155.9266 | 133.6552 | 055.692 |
| 32.00 | 0.133 | 1.0 | 0.0044 | 127.4308 | 108.0674 | 068.472 |
| 33.00 | 0.103 | 1.0 | 0.0027 | 098.9349 | 082.9738 | 082.116 |
| 34.00 | 0.07 | 1.0 | 0.0012 | 067.3303 | 055.8193 | 098.349 |
| 35.00 | 0.037 | 1.0 | 0.0003 | 035.7256 | 029.2647 | 115.509 |
| 36.00 | 0.004 | 1.0 | 0.0000 | 004.1210 | 003.3339 | 133.578 |
| 37.00 | 0.03 | 1.0 | 0.0002 | 028.8160 | 023.0135 | 118.658 |
| 38.00 | 0.062 | 1.0 | 0.0010 | 059.2607 | 046.6981 | 099.515 |
| 39.00 | 0.089 | 1.0 | 0.0020 | 085.1533 | 066.1766 | 082.411 |
| 40.00 | 0.116 | 1.0 | 0.0033 | 111.0460 | 085.0662 | 064.621 |
| 41.00 | 0.131 | 1.0 | 0.0043 | 126.1856 | 095.2335 | 053.215 |
| 42.00 | 0.144 | 1.0 | 0.0052 | 138.6370 | 103.0274 | 043.234 |
| 43.00 | 0.157 | 1.0 | 0.0062 | 151.0884 | 110.4990 | 032.958 |
| 44.00 | 0.17 | 1.0 | 0.0072 | 163.5397 | 117.6406 | 022.396 |
| 45.00 | 0.183 | 1.0 | 0.0084 | 175.9911 | 124.4445 | 011.556 |
| 46.00 | 0.191 | 1.0 | 0.0092 | 183.8461 | 127.7102 | 003.752 |
| 47.00 | 0.189 | 1.0 | 0.0090 | 181.9677 | 124.1017 | 002.917 |
| 48.00 | 0.183 | 1.0 | 0.0084 | 175.8310 | 117.6539 | 005.332 |
| 49.00 | 0.177 | 1.0 | 0.0078 | 169.6942 | 111.3294 | 007.930 |
| 50.00 | 0.17 | 1.0 | 0.0072 | 163.5575 | 105.1327 | 010.708 |
| 51.00 | 0.158 | 1.0 | 0.0062 | 151.8148 | 095.5402 | 018.018 |
| 52.00 | 0.144 | 1.0 | 0.0052 | 138.6707 | 085.3742 | 026.726 |
| 53.00 | 0.131 | 1.0 | 0.0043 | 125.5266 | 075.5438 | 035.750 |

| | | | | XField.out | | |
|-------|-------|-----|--------|------------|----------|---------|
| 54.00 | 0.117 | 1.0 | 0.0034 | 112.3824 | 066.0567 | 045.081 |
| 55.00 | 0.102 | 1.0 | 0.0026 | 097.6050 | 055.9839 | 056.047 |
| 56.00 | 0.086 | 1.0 | 0.0019 | 082.8276 | 046.3166 | 067.333 |
| 57.00 | 0.071 | 1.0 | 0.0013 | 068.0501 | 037.0628 | 078.928 |
| 58.00 | 0.056 | 1.0 | 0.0008 | 053.3096 | 028.2498 | 090.791 |
| 59.00 | 0.041 | 1.0 | 0.0004 | 038.9016 | 020.0358 | 102.655 |
| 60.00 | 0.026 | 1.0 | 0.0002 | 024.6783 | 012.3392 | 114.628 |
| 61.00 | 0.013 | 1.0 | 0.0000 | 012.1175 | 005.8747 | 125.402 |
| 62.00 | 0.001 | 1.0 | 0.0000 | 000.9605 | 000.4509 | 135.152 |
| 63.00 | 0.012 | 1.0 | 0.0000 | 011.0461 | 005.0148 | 126.158 |
| 64.00 | 0.022 | 1.0 | 0.0001 | 021.1317 | 009.2635 | 117.007 |
| 65.00 | 0.03 | 1.0 | 0.0002 | 028.9906 | 012.2520 | 109.726 |
| 66.00 | 0.038 | 1.0 | 0.0004 | 036.8495 | 014.9881 | 102.336 |
| 67.00 | 0.047 | 1.0 | 0.0005 | 044.7084 | 017.4690 | 094.846 |
| 68.00 | 0.052 | 1.0 | 0.0007 | 050.4280 | 018.8907 | 089.244 |
| 69.00 | 0.057 | 1.0 | 0.0008 | 055.2307 | 019.7929 | 084.438 |
| 70.00 | 0.062 | 1.0 | 0.0010 | 059.8010 | 020.4531 | 079.805 |
| 71.00 | 0.065 | 1.0 | 0.0011 | 062.2797 | 020.2763 | 077.113 |
| 72.00 | 0.067 | 1.0 | 0.0011 | 064.7585 | 020.0115 | 074.411 |
| 73.00 | 0.07 | 1.0 | 0.0012 | 067.2373 | 019.6583 | 071.701 |
| 74.00 | 0.071 | 1.0 | 0.0012 | 067.7176 | 018.6655 | 070.906 |
| 75.00 | 0.071 | 1.0 | 0.0013 | 068.1979 | 017.6509 | 070.126 |
| 76.00 | 0.07 | 1.0 | 0.0012 | 066.8257 | 016.1666 | 071.159 |
| 77.00 | 0.068 | 1.0 | 0.0012 | 065.4535 | 014.7238 | 072.224 |
| 78.00 | 0.066 | 1.0 | 0.0011 | 063.0110 | 013.1007 | 074.366 |
| 79.00 | 0.063 | 1.0 | 0.0010 | 060.4496 | 011.5343 | 076.661 |
| 80.00 | 0.06 | 1.0 | 0.0009 | 057.8881 | 010.0522 | 078.991 |
| 81.00 | 0.056 | 1.0 | 0.0008 | 053.7025 | 008.4009 | 082.959 |
| 82.00 | 0.051 | 1.0 | 0.0007 | 049.3365 | 006.8663 | 087.144 |
| 83.00 | 0.047 | 1.0 | 0.0005 | 044.9704 | 005.4805 | 091.365 |
| 84.00 | 0.042 | 1.0 | 0.0004 | 040.6044 | 004.2443 | 095.618 |
| 85.00 | 0.037 | 1.0 | 0.0003 | 035.7318 | 003.1142 | 100.404 |
| 86.00 | 0.032 | 1.0 | 0.0002 | 030.3529 | 002.1173 | 105.721 |
| 87.00 | 0.026 | 1.0 | 0.0002 | 024.9739 | 001.3070 | 111.060 |
| 88.00 | 0.022 | 1.0 | 0.0001 | 021.4810 | 000.7497 | 114.532 |
| 89.00 | 0.02 | 1.0 | 0.0001 | 018.8568 | 000.3291 | 117.146 |
| 90.00 | 0.017 | 1.0 | 0.0001 | 016.3291 | 000.0000 | 119.671 |

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