

02-16-2016

Terrain Data: FCC NGDC 30 Sec

FMOver Analysis

W230AA BLFT19980908TB

W230CJ.C

Channel = 230D  
 Max ERP = 0.027 kw  
 RCAMSL = 92 m  
 N. Lat. 39 22 46.0  
 W. Lng. 74 25 45.0  
 Protected  
 60 dBu

Channel = 230D  
 Max ERP = 0.25 kw  
 RCAMSL = 117 m  
 N. Lat. 39 42 56.0  
 W. Lng. 74 17 31.0  
 Interfering  
 40 dBu

| Azimuth<br>(degrees) | ERP<br>(kw) | HAAT<br>(m) | Dist<br>(km) | Azimuth<br>(degrees) | ERP<br>(kw) | HAAT<br>(m) | Dist<br>(km) | Actual<br>(dBu) | IX<br>(km) |
|----------------------|-------------|-------------|--------------|----------------------|-------------|-------------|--------------|-----------------|------------|
| 300.0                | 000.0270    | 0086.8      | 006.9        | 207.7                | 000.0885    | 0107.0      | 038.3        | 38.55           |            |
| 301.0                | 000.0270    | 0086.9      | 006.9        | 207.7                | 000.0885    | 0107.0      | 038.2        | 38.60           |            |
| 302.0                | 000.0270    | 0086.9      | 006.9        | 207.6                | 000.0884    | 0107.0      | 038.0        | 38.65           |            |
| 303.0                | 000.0270    | 0087.0      | 006.9        | 207.6                | 000.0884    | 0107.0      | 037.9        | 38.70           |            |
| 304.0                | 000.0270    | 0087.2      | 006.9        | 207.6                | 000.0883    | 0107.0      | 037.8        | 38.75           |            |
| 305.0                | 000.0270    | 0087.4      | 006.9        | 207.6                | 000.0883    | 0107.0      | 037.7        | 38.80           |            |
| 306.0                | 000.0270    | 0087.6      | 006.9        | 207.6                | 000.0882    | 0107.0      | 037.5        | 38.85           |            |
| 307.0                | 000.0270    | 0087.6      | 006.9        | 207.6                | 000.0881    | 0107.0      | 037.4        | 38.90           |            |
| 308.0                | 000.0270    | 0087.4      | 006.9        | 207.5                | 000.0879    | 0107.0      | 037.3        | 38.94           |            |
| 309.0                | 000.0270    | 0087.0      | 006.9        | 207.5                | 000.0876    | 0107.0      | 037.2        | 38.98           |            |
| 310.0                | 000.0270    | 0086.5      | 006.9        | 207.4                | 000.0873    | 0107.0      | 037.1        | 39.02           |            |
| 311.0                | 000.0270    | 0085.9      | 006.9        | 207.3                | 000.0870    | 0107.0      | 037.0        | 39.05           |            |
| 312.0                | 000.0270    | 0085.3      | 006.8        | 207.2                | 000.0866    | 0106.9      | 036.9        | 39.08           |            |
| 313.0                | 000.0270    | 0084.9      | 006.8        | 207.2                | 000.0863    | 0106.9      | 036.7        | 39.11           |            |
| 314.0                | 000.0270    | 0084.7      | 006.8        | 207.1                | 000.0860    | 0106.9      | 036.6        | 39.15           |            |
| 315.0                | 000.0270    | 0084.6      | 006.8        | 207.0                | 000.0857    | 0106.9      | 036.5        | 39.18           |            |
| 316.0                | 000.0270    | 0084.5      | 006.8        | 207.0                | 000.0854    | 0106.9      | 036.4        | 39.22           |            |
| 317.0                | 000.0270    | 0084.5      | 006.8        | 206.9                | 000.0852    | 0106.9      | 036.3        | 39.26           |            |
| 318.0                | 000.0270    | 0084.6      | 006.8        | 206.8                | 000.0849    | 0106.9      | 036.2        | 39.29           |            |
| 319.0                | 000.0270    | 0084.9      | 006.8        | 206.8                | 000.0847    | 0106.9      | 036.1        | 39.33           |            |
| 320.0                | 000.0270    | 0085.2      | 006.8        | 206.7                | 000.0844    | 0106.9      | 036.0        | 39.38           |            |
| 321.0                | 000.0270    | 0085.6      | 006.9        | 206.7                | 000.0842    | 0106.9      | 035.8        | 39.41           |            |
| 322.0                | 000.0270    | 0085.8      | 006.9        | 206.6                | 000.0839    | 0106.9      | 035.7        | 39.45           |            |
| 323.0                | 000.0270    | 0086.0      | 006.9        | 206.5                | 000.0836    | 0106.9      | 035.6        | 39.49           |            |
| 324.0                | 000.0270    | 0086.1      | 006.9        | 206.5                | 000.0832    | 0106.9      | 035.5        | 39.52           |            |
| 325.0                | 000.0270    | 0086.2      | 006.9        | 206.4                | 000.0829    | 0106.9      | 035.4        | 39.55           |            |
| 326.0                | 000.0270    | 0086.3      | 006.9        | 206.3                | 000.0825    | 0106.9      | 035.3        | 39.58           |            |
| 327.0                | 000.0270    | 0086.3      | 006.9        | 206.2                | 000.0820    | 0106.9      | 035.2        | 39.60           |            |
| 328.0                | 000.0270    | 0086.3      | 006.9        | 206.1                | 000.0816    | 0106.9      | 035.1        | 39.63           |            |
| 329.0                | 000.0270    | 0086.2      | 006.9        | 206.0                | 000.0811    | 0106.9      | 035.0        | 39.65           |            |
| 330.0                | 000.0270    | 0086.1      | 006.9        | 205.9                | 000.0806    | 0106.9      | 034.9        | 39.67           |            |
| 331.0                | 000.0270    | 0086.1      | 006.9        | 205.7                | 000.0802    | 0106.9      | 034.8        | 39.69           |            |
| 332.0                | 000.0270    | 0086.1      | 006.9        | 205.6                | 000.0797    | 0106.9      | 034.7        | 39.71           |            |
| 333.0                | 000.0270    | 0086.3      | 006.9        | 205.5                | 000.0792    | 0107.0      | 034.6        | 39.73           |            |
| 334.0                | 000.0270    | 0086.6      | 006.9        | 205.4                | 000.0788    | 0107.0      | 034.5        | 39.76           |            |
| 335.0                | 000.0270    | 0086.9      | 006.9        | 205.3                | 000.0783    | 0107.0      | 034.4        | 39.78           |            |
| 336.0                | 000.0270    | 0087.1      | 006.9        | 205.2                | 000.0778    | 0107.0      | 034.3        | 39.80           |            |
| 337.0                | 000.0270    | 0087.3      | 006.9        | 205.1                | 000.0773    | 0107.1      | 034.2        | 39.82           |            |
| 338.0                | 000.0270    | 0087.5      | 006.9        | 204.9                | 000.0767    | 0107.1      | 034.1        | 39.84           |            |
| 339.0                | 000.0270    | 0088.0      | 007.0        | 204.8                | 000.0762    | 0107.1      | 034.0        | 39.86           |            |
| 340.0                | 000.0270    | 0088.5      | 007.0        | 204.7                | 000.0758    | 0107.2      | 033.9        | 39.88           |            |
| 341.0                | 000.0270    | 0089.0      | 007.0        | 204.6                | 000.0752    | 0107.2      | 033.8        | 39.90           |            |
| 342.0                | 000.0270    | 0089.1      | 007.0        | 204.4                | 000.0746    | 0107.2      | 033.7        | 39.91           |            |
| 343.0                | 000.0270    | 0089.1      | 007.0        | 204.3                | 000.0740    | 0107.3      | 033.6        | 39.92           |            |
| 344.0                | 000.0270    | 0089.2      | 007.0        | 204.1                | 000.0734    | 0107.4      | 033.6        | 39.93           |            |
| 345.0                | 000.0270    | 0089.5      | 007.0        | 204.0                | 000.0728    | 0107.4      | 033.5        | 39.93           |            |
| 346.0                | 000.0270    | 0089.7      | 007.0        | 203.8                | 000.0721    | 0107.5      | 033.4        | 39.94           |            |
| 347.0                | 000.0270    | 0090.0      | 007.0        | 203.7                | 000.0715    | 0107.6      | 033.3        | 39.95           |            |
| 348.0                | 000.0270    | 0090.2      | 007.0        | 203.5                | 000.0709    | 0107.6      | 033.2        | 39.96           |            |
| 349.0                | 000.0270    | 0090.5      | 007.1        | 203.3                | 000.0702    | 0107.7      | 033.1        | 39.96           |            |
| 350.0                | 000.0270    | 0090.6      | 007.1        | 203.2                | 000.0695    | 0107.8      | 033.1        | 39.96<--        |            |
| 351.0                | 000.0270    | 0090.6      | 007.1        | 203.0                | 000.0688    | 0107.9      | 033.0        | 39.96           |            |
| 352.0                | 000.0270    | 0090.6      | 007.1        | 202.8                | 000.0681    | 0108.0      | 032.9        | 39.95           |            |
| 353.0                | 000.0270    | 0090.6      | 007.1        | 202.6                | 000.0674    | 0108.1      | 032.9        | 39.94           |            |
| 354.0                | 000.0270    | 0090.6      | 007.1        | 202.4                | 000.0667    | 0108.2      | 032.8        | 39.93           |            |
| 355.0                | 000.0270    | 0090.6      | 007.1        | 202.2                | 000.0659    | 0108.4      | 032.8        | 39.92           |            |

|       |          |        |       |       |          |        |       |          |
|-------|----------|--------|-------|-------|----------|--------|-------|----------|
| 356.0 | 000.0270 | 0090.8 | 007.1 | 202.0 | 000.0652 | 0108.5 | 032.7 | 39.92    |
| 357.0 | 000.0270 | 0091.0 | 007.1 | 201.9 | 000.0645 | 0108.6 | 032.6 | 39.91    |
| 358.0 | 000.0270 | 0091.2 | 007.1 | 201.7 | 000.0638 | 0108.7 | 032.6 | 39.90    |
| 359.0 | 000.0270 | 0091.4 | 007.1 | 201.5 | 000.0630 | 0108.8 | 032.5 | 39.88    |
| 000.0 | 000.0270 | 0091.6 | 007.1 | 201.3 | 000.0623 | 0109.0 | 032.5 | 39.87    |
| 001.0 | 000.0270 | 0091.9 | 007.1 | 201.1 | 000.0615 | 0109.1 | 032.4 | 39.85    |
| 002.0 | 000.0270 | 0092.0 | 007.1 | 200.9 | 000.0608 | 0109.2 | 032.4 | 39.82    |
| 003.0 | 000.0270 | 0092.0 | 007.1 | 200.7 | 000.0600 | 0109.3 | 032.3 | 39.80    |
| 004.0 | 000.0270 | 0092.0 | 007.1 | 200.5 | 000.0592 | 0109.4 | 032.3 | 39.76    |
| 005.0 | 000.0270 | 0092.0 | 007.1 | 200.2 | 000.0585 | 0109.5 | 032.3 | 39.73    |
| 006.0 | 000.0270 | 0092.0 | 007.1 | 200.0 | 000.0577 | 0109.5 | 032.2 | 39.70    |
| 007.0 | 000.0270 | 0092.0 | 007.1 | 199.8 | 000.0576 | 0109.6 | 032.2 | 39.71    |
| 008.0 | 000.0270 | 0092.0 | 007.1 | 199.6 | 000.0577 | 0109.7 | 032.2 | 39.74    |
| 009.0 | 000.0270 | 0092.0 | 007.1 | 199.4 | 000.0577 | 0109.8 | 032.2 | 39.76    |
| 010.0 | 000.0270 | 0092.0 | 007.1 | 199.2 | 000.0578 | 0109.8 | 032.1 | 39.77    |
| 011.0 | 000.0270 | 0092.0 | 007.1 | 198.9 | 000.0579 | 0109.9 | 032.1 | 39.79    |
| 012.0 | 000.0270 | 0092.0 | 007.1 | 198.7 | 000.0579 | 0109.9 | 032.1 | 39.81    |
| 013.0 | 000.0270 | 0092.0 | 007.1 | 198.5 | 000.0580 | 0110.0 | 032.1 | 39.82    |
| 014.0 | 000.0270 | 0092.0 | 007.1 | 198.3 | 000.0580 | 0110.1 | 032.1 | 39.84    |
| 015.0 | 000.0270 | 0092.0 | 007.1 | 198.1 | 000.0581 | 0110.2 | 032.1 | 39.85    |
| 016.0 | 000.0270 | 0092.0 | 007.1 | 197.8 | 000.0581 | 0110.2 | 032.1 | 39.87    |
| 017.0 | 000.0270 | 0092.0 | 007.1 | 197.6 | 000.0582 | 0110.3 | 032.1 | 39.88    |
| 018.0 | 000.0270 | 0092.0 | 007.1 | 197.4 | 000.0582 | 0110.4 | 032.1 | 39.89    |
| 019.0 | 000.0270 | 0092.0 | 007.1 | 197.2 | 000.0583 | 0110.5 | 032.1 | 39.90    |
| 020.0 | 000.0270 | 0092.0 | 007.1 | 196.9 | 000.0583 | 0110.6 | 032.1 | 39.91    |
| 021.0 | 000.0270 | 0092.0 | 007.1 | 196.7 | 000.0584 | 0110.8 | 032.1 | 39.92    |
| 022.0 | 000.0270 | 0092.0 | 007.1 | 196.5 | 000.0584 | 0110.9 | 032.1 | 39.93    |
| 023.0 | 000.0270 | 0092.0 | 007.1 | 196.3 | 000.0585 | 0111.0 | 032.1 | 39.94    |
| 024.0 | 000.0270 | 0092.0 | 007.1 | 196.1 | 000.0585 | 0111.1 | 032.1 | 39.94    |
| 025.0 | 000.0270 | 0092.0 | 007.1 | 195.8 | 000.0586 | 0111.2 | 032.1 | 39.94    |
| 026.0 | 000.0270 | 0092.0 | 007.1 | 195.6 | 000.0587 | 0111.4 | 032.2 | 39.95    |
| 027.0 | 000.0270 | 0092.0 | 007.1 | 195.4 | 000.0587 | 0111.5 | 032.2 | 39.95    |
| 028.0 | 000.0270 | 0092.0 | 007.1 | 195.2 | 000.0588 | 0111.6 | 032.2 | 39.95    |
| 029.0 | 000.0270 | 0092.0 | 007.1 | 195.0 | 000.0588 | 0111.7 | 032.2 | 39.95<-- |
| 030.0 | 000.0270 | 0092.0 | 007.1 | 194.8 | 000.0589 | 0111.8 | 032.3 | 39.95    |
| 031.0 | 000.0270 | 0092.0 | 007.1 | 194.6 | 000.0589 | 0111.9 | 032.3 | 39.94    |
| 032.0 | 000.0270 | 0092.0 | 007.1 | 194.3 | 000.0590 | 0112.0 | 032.3 | 39.93    |
| 033.0 | 000.0270 | 0092.0 | 007.1 | 194.1 | 000.0590 | 0112.1 | 032.4 | 39.92    |
| 034.0 | 000.0270 | 0092.0 | 007.1 | 193.9 | 000.0591 | 0112.2 | 032.4 | 39.91    |
| 035.0 | 000.0270 | 0092.0 | 007.1 | 193.7 | 000.0591 | 0112.2 | 032.5 | 39.90    |
| 036.0 | 000.0270 | 0092.0 | 007.1 | 193.5 | 000.0592 | 0112.2 | 032.5 | 39.88    |
| 037.0 | 000.0270 | 0092.0 | 007.1 | 193.3 | 000.0592 | 0112.3 | 032.6 | 39.86    |
| 038.0 | 000.0270 | 0092.0 | 007.1 | 193.1 | 000.0593 | 0112.3 | 032.6 | 39.84    |
| 039.0 | 000.0270 | 0092.0 | 007.1 | 192.9 | 000.0593 | 0112.3 | 032.7 | 39.82    |
| 040.0 | 000.0270 | 0092.0 | 007.1 | 192.7 | 000.0594 | 0112.3 | 032.7 | 39.80    |
| 041.0 | 000.0265 | 0092.0 | 007.1 | 192.6 | 000.0594 | 0112.4 | 032.8 | 39.76    |
| 042.0 | 000.0259 | 0092.0 | 007.0 | 192.4 | 000.0594 | 0112.4 | 032.9 | 39.72    |
| 043.0 | 000.0254 | 0092.0 | 007.0 | 192.3 | 000.0595 | 0112.4 | 033.0 | 39.68    |
| 044.0 | 000.0249 | 0092.0 | 007.0 | 192.1 | 000.0595 | 0112.4 | 033.1 | 39.64    |
| 045.0 | 000.0244 | 0092.0 | 006.9 | 192.0 | 000.0595 | 0112.4 | 033.2 | 39.60    |
| 046.0 | 000.0239 | 0092.0 | 006.9 | 191.8 | 000.0596 | 0112.4 | 033.3 | 39.55    |
| 047.0 | 000.0234 | 0092.0 | 006.9 | 191.7 | 000.0596 | 0112.4 | 033.4 | 39.51    |
| 048.0 | 000.0229 | 0092.0 | 006.8 | 191.6 | 000.0596 | 0112.4 | 033.5 | 39.46    |
| 049.0 | 000.0224 | 0092.0 | 006.8 | 191.4 | 000.0597 | 0112.4 | 033.6 | 39.42    |
| 050.0 | 000.0219 | 0092.0 | 006.8 | 191.3 | 000.0597 | 0112.4 | 033.7 | 39.37    |
| 051.0 | 000.0214 | 0092.0 | 006.7 | 191.2 | 000.0597 | 0112.4 | 033.8 | 39.32    |
| 052.0 | 000.0209 | 0092.0 | 006.7 | 191.1 | 000.0598 | 0112.4 | 033.9 | 39.27    |
| 053.0 | 000.0204 | 0092.0 | 006.7 | 191.0 | 000.0598 | 0112.4 | 034.0 | 39.23    |
| 054.0 | 000.0200 | 0092.0 | 006.6 | 190.9 | 000.0598 | 0112.4 | 034.1 | 39.18    |
| 055.0 | 000.0195 | 0092.0 | 006.6 | 190.8 | 000.0598 | 0112.3 | 034.2 | 39.13    |
| 056.0 | 000.0191 | 0092.0 | 006.5 | 190.7 | 000.0599 | 0112.3 | 034.3 | 39.08    |
| 057.0 | 000.0186 | 0092.0 | 006.5 | 190.6 | 000.0599 | 0112.3 | 034.4 | 39.03    |
| 058.0 | 000.0182 | 0092.0 | 006.5 | 190.5 | 000.0599 | 0112.3 | 034.5 | 38.98    |
| 059.0 | 000.0177 | 0092.0 | 006.4 | 190.4 | 000.0599 | 0112.3 | 034.6 | 38.93    |
| 060.0 | 000.0173 | 0092.0 | 006.4 | 190.4 | 000.0599 | 0112.3 | 034.7 | 38.88    |
| 061.0 | 000.0173 | 0092.0 | 006.4 | 190.2 | 000.0600 | 0112.3 | 034.8 | 38.84    |
| 062.0 | 000.0173 | 0092.0 | 006.4 | 190.1 | 000.0600 | 0112.3 | 034.9 | 38.80    |
| 063.0 | 000.0173 | 0092.0 | 006.4 | 190.0 | 000.0600 | 0112.3 | 035.0 | 38.76    |
| 064.0 | 000.0173 | 0092.0 | 006.4 | 189.9 | 000.0610 | 0112.3 | 035.1 | 38.78    |
| 065.0 | 000.0173 | 0092.0 | 006.4 | 189.8 | 000.0621 | 0112.3 | 035.2 | 38.82    |
| 066.0 | 000.0173 | 0092.0 | 006.4 | 189.7 | 000.0632 | 0112.3 | 035.3 | 38.85    |
| 067.0 | 000.0173 | 0092.0 | 006.4 | 189.6 | 000.0643 | 0112.3 | 035.4 | 38.88    |
| 068.0 | 000.0173 | 0092.0 | 006.4 | 189.5 | 000.0653 | 0112.3 | 035.5 | 38.91    |
| 069.0 | 000.0173 | 0092.0 | 006.4 | 189.4 | 000.0663 | 0112.3 | 035.6 | 38.93    |
| 070.0 | 000.0173 | 0092.0 | 006.4 | 189.3 | 000.0673 | 0112.3 | 035.7 | 38.95<-- |

|       |          |        |       |       |          |        |       |       |
|-------|----------|--------|-------|-------|----------|--------|-------|-------|
| 071.0 | 000.0164 | 0092.0 | 006.3 | 189.3 | 000.0671 | 0112.3 | 035.8 | 38.87 |
| 072.0 | 000.0156 | 0092.0 | 006.2 | 189.4 | 000.0667 | 0112.3 | 035.9 | 38.79 |
| 073.0 | 000.0148 | 0092.0 | 006.2 | 189.4 | 000.0663 | 0112.3 | 036.1 | 38.70 |
| 074.0 | 000.0140 | 0092.0 | 006.1 | 189.5 | 000.0658 | 0112.3 | 036.2 | 38.61 |
| 075.0 | 000.0132 | 0092.0 | 006.0 | 189.5 | 000.0653 | 0112.3 | 036.3 | 38.51 |
| 076.0 | 000.0125 | 0092.0 | 005.9 | 189.6 | 000.0647 | 0112.3 | 036.4 | 38.41 |
| 077.0 | 000.0118 | 0092.0 | 005.8 | 189.6 | 000.0641 | 0112.3 | 036.6 | 38.31 |
| 078.0 | 000.0111 | 0092.0 | 005.7 | 189.7 | 000.0634 | 0112.3 | 036.7 | 38.21 |
| 079.0 | 000.0104 | 0092.0 | 005.7 | 189.8 | 000.0626 | 0112.3 | 036.8 | 38.09 |
| 080.0 | 000.0097 | 0092.0 | 005.6 | 189.8 | 000.0617 | 0112.3 | 036.9 | 37.98 |