

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude **18° 2' 7.42" North**
Longitude **67° 11' 5.25" West** (NAD 83)

These coordinates convert to NAD 27 coordinates of
18° 02' 14.56", North, 67° 11' 06.60" West (NAD 27).

Height of antenna radiation center above mean sea level: **33.7875 meters AMSL**

Number of Evenly Spaced Radials = **360** 0° is referenced to True North

All topo data is missing from FCC terrain database!

Note: NGDC/FCC Topographical database cannot be opened.

Switching to GLOBE terrain data...

Results

Calculated HAAT = **16 meters**

Antenna Height Above Average Terrain calculated
using 1 km [GLOBE terrain data](#)

Individual "Radial HAAT" Values, in meters

| | | | | | |
|-----|--------|------|---------|------|--------|
| 0° | 30.1 m | 120° | -23.3 m | 240° | 33.8 m |
| 1° | 29.5 m | 121° | -23.3 m | 241° | 33.8 m |
| 2° | 28.9 m | 122° | -21.6 m | 242° | 33.8 m |
| 3° | 28.1 m | 123° | -18.1 m | 243° | 33.8 m |
| 4° | 27.9 m | 124° | -14.0 m | 244° | 33.8 m |
| 5° | 27.3 m | 125° | -9.9 m | 245° | 33.8 m |
| 6° | 26.7 m | 126° | -6.4 m | 246° | 33.8 m |
| 7° | 26.2 m | 127° | -3.7 m | 247° | 33.8 m |
| 8° | 25.1 m | 128° | -2.1 m | 248° | 33.8 m |
| 9° | 23.1 m | 129° | -1.4 m | 249° | 33.8 m |
| 10° | 21.1 m | 130° | -1.2 m | 250° | 33.8 m |
| 11° | 19.1 m | 131° | -0.8 m | 251° | 33.8 m |
| 12° | 17.3 m | 132° | 0.2 m | 252° | 33.8 m |
| 13° | 16.1 m | 133° | 1.9 m | 253° | 33.8 m |
| 14° | 14.7 m | 134° | 3.9 m | 254° | 33.8 m |
| 15° | 12.9 m | 135° | 5.9 m | 255° | 33.8 m |
| 16° | 10.9 m | 136° | 7.9 m | 256° | 33.8 m |
| 17° | 9.1 m | 137° | 9.6 m | 257° | 33.8 m |
| 18° | 8.4 m | 138° | 11.0 m | 258° | 33.8 m |
| 19° | 8.5 m | 139° | 12.2 m | 259° | 33.8 m |
| 20° | 9.0 m | 140° | 13.3 m | 260° | 33.8 m |
| 21° | 9.4 m | 141° | 14.3 m | 261° | 33.8 m |
| 22° | 9.1 m | 142° | 15.2 m | 262° | 33.8 m |
| 23° | 7.7 m | 143° | 15.9 m | 263° | 33.8 m |
| 24° | 5.6 m | 144° | 16.1 m | 264° | 33.8 m |

| | | | | | |
|-----|---------|------|--------|------|--------|
| 25° | 3.0 m | 145° | 16.2 m | 265° | 33.8 m |
| 26° | 0.7 m | 146° | 16.0 m | 266° | 33.8 m |
| 27° | -1.3 m | 147° | 16.1 m | 267° | 33.8 m |
| 28° | -2.8 m | 148° | 16.3 m | 268° | 33.8 m |
| 29° | -4.0 m | 149° | 16.7 m | 269° | 33.8 m |
| 30° | -4.4 m | 150° | 17.5 m | 270° | 33.8 m |
| 31° | -3.5 m | 151° | 18.3 m | 271° | 33.8 m |
| 32° | -1.7 m | 152° | 19.1 m | 272° | 33.8 m |
| 33° | 0.3 m | 153° | 19.9 m | 273° | 33.8 m |
| 34° | 1.9 m | 154° | 20.9 m | 274° | 33.8 m |
| 35° | 3.1 m | 155° | 21.8 m | 275° | 33.8 m |
| 36° | 4.3 m | 156° | 22.9 m | 276° | 33.8 m |
| 37° | 5.0 m | 157° | 23.9 m | 277° | 33.8 m |
| 38° | 4.9 m | 158° | 24.9 m | 278° | 33.8 m |
| 39° | 4.2 m | 159° | 25.7 m | 279° | 33.8 m |
| 40° | 4.0 m | 160° | 26.3 m | 280° | 33.8 m |
| 41° | 4.8 m | 161° | 26.7 m | 281° | 33.8 m |
| 42° | 5.8 m | 162° | 26.9 m | 282° | 33.8 m |
| 43° | 6.5 m | 163° | 27.2 m | 283° | 33.8 m |
| 44° | 6.5 m | 164° | 27.4 m | 284° | 33.8 m |
| 45° | 5.1 m | 165° | 27.6 m | 285° | 33.8 m |
| 46° | 2.9 m | 166° | 27.9 m | 286° | 33.8 m |
| 47° | 1.0 m | 167° | 28.1 m | 287° | 33.8 m |
| 48° | 0.1 m | 168° | 28.3 m | 288° | 33.8 m |
| 49° | -0.2 m | 169° | 28.4 m | 289° | 33.8 m |
| 50° | -0.1 m | 170° | 28.4 m | 290° | 33.8 m |
| 51° | -0.2 m | 171° | 28.4 m | 291° | 33.8 m |
| 52° | -1.0 m | 172° | 28.4 m | 292° | 33.8 m |
| 53° | -2.4 m | 173° | 28.4 m | 293° | 33.8 m |
| 54° | -4.1 m | 174° | 28.4 m | 294° | 33.8 m |
| 55° | -6.1 m | 175° | 28.1 m | 295° | 33.8 m |
| 56° | -8.5 m | 176° | 27.8 m | 296° | 33.8 m |
| 57° | -11.7 m | 177° | 27.4 m | 297° | 33.8 m |
| 58° | -15.6 m | 178° | 26.8 m | 298° | 33.8 m |
| 59° | -19.6 m | 179° | 26.0 m | 299° | 33.8 m |
| 60° | -23.4 m | 180° | 25.3 m | 300° | 33.8 m |
| 61° | -26.7 m | 181° | 24.6 m | 301° | 33.8 m |
| 62° | -29.5 m | 182° | 24.3 m | 302° | 33.8 m |
| 63° | -31.8 m | 183° | 24.4 m | 303° | 33.8 m |
| 64° | -34.3 m | 184° | 24.8 m | 304° | 33.8 m |
| 65° | -37.4 m | 185° | 25.3 m | 305° | 33.8 m |
| 66° | -42.2 m | 186° | 25.8 m | 306° | 33.8 m |
| 67° | -48.7 m | 187° | 25.9 m | 307° | 33.8 m |
| 68° | -56.7 m | 188° | 26.1 m | 308° | 33.8 m |
| 69° | -64.3 m | 189° | 26.4 m | 309° | 33.8 m |
| 70° | -70.2 m | 190° | 26.8 m | 310° | 33.8 m |
| 71° | -74.2 m | 191° | 27.2 m | 311° | 33.8 m |
| 72° | -76.3 m | 192° | 27.6 m | 312° | 33.8 m |
| 73° | -76.7 m | 193° | 28.0 m | 313° | 33.8 m |
| 74° | -76.4 m | 194° | 28.3 m | 314° | 33.8 m |
| 75° | -76.5 m | 195° | 28.4 m | 315° | 33.8 m |
| 76° | -76.3 m | 196° | 28.3 m | 316° | 33.8 m |
| 77° | -74.2 m | 197° | 28.1 m | 317° | 33.8 m |
| 78° | -70.5 m | 198° | 27.9 m | 318° | 33.8 m |
| 79° | -65.9 m | 199° | 27.6 m | 319° | 33.8 m |
| 80° | -60.8 m | 200° | 27.3 m | 320° | 33.8 m |
| 81° | -55.8 m | 201° | 27.1 m | 321° | 33.8 m |
| 82° | -50.3 m | 202° | 26.8 m | 322° | 33.8 m |
| 83° | -42.8 m | 203° | 26.6 m | 323° | 33.8 m |
| 84° | -34.9 m | 204° | 26.6 m | 324° | 33.8 m |
| 85° | -28.2 m | 205° | 26.7 m | 325° | 33.7 m |
| 86° | -23.2 m | 206° | 27.0 m | 326° | 33.7 m |
| 87° | -19.0 m | 207° | 27.4 m | 327° | 33.7 m |
| 88° | -15.0 m | 208° | 28.0 m | 328° | 33.7 m |
| 89° | -11.7 m | 209° | 28.8 m | 329° | 33.6 m |

| | | | | | |
|------|---------|------|--------|------|--------|
| 90° | -7.9 m | 210° | 29.7 m | 330° | 33.6 m |
| 91° | -4.1 m | 211° | 30.5 m | 331° | 33.6 m |
| 92° | -0.2 m | 212° | 31.3 m | 332° | 33.6 m |
| 93° | 3.3 m | 213° | 32.0 m | 333° | 33.5 m |
| 94° | 6.1 m | 214° | 32.6 m | 334° | 33.5 m |
| 95° | 8.5 m | 215° | 33.1 m | 335° | 33.5 m |
| 96° | 10.7 m | 216° | 33.4 m | 336° | 33.4 m |
| 97° | 12.6 m | 217° | 33.6 m | 337° | 33.4 m |
| 98° | 14.2 m | 218° | 33.7 m | 338° | 33.3 m |
| 99° | 15.5 m | 219° | 33.8 m | 339° | 33.3 m |
| 100° | 16.6 m | 220° | 33.8 m | 340° | 33.2 m |
| 101° | 17.3 m | 221° | 33.8 m | 341° | 33.2 m |
| 102° | 17.9 m | 222° | 33.8 m | 342° | 33.1 m |
| 103° | 18.2 m | 223° | 33.8 m | 343° | 33.1 m |
| 104° | 18.1 m | 224° | 33.8 m | 344° | 33.0 m |
| 105° | 17.2 m | 225° | 33.8 m | 345° | 32.9 m |
| 106° | 15.7 m | 226° | 33.8 m | 346° | 32.9 m |
| 107° | 13.2 m | 227° | 33.8 m | 347° | 32.8 m |
| 108° | 10.0 m | 228° | 33.8 m | 348° | 32.8 m |
| 109° | 5.9 m | 229° | 33.8 m | 349° | 32.7 m |
| 110° | 0.8 m | 230° | 33.8 m | 350° | 32.5 m |
| 111° | -4.6 m | 231° | 33.8 m | 351° | 32.3 m |
| 112° | -10.6 m | 232° | 33.8 m | 352° | 32.1 m |
| 113° | -17.1 m | 233° | 33.8 m | 353° | 31.9 m |
| 114° | -21.4 m | 234° | 33.8 m | 354° | 31.7 m |
| 115° | -23.3 m | 235° | 33.8 m | 355° | 31.5 m |
| 116° | -23.2 m | 236° | 33.8 m | 356° | 31.3 m |
| 117° | -21.8 m | 237° | 33.8 m | 357° | 31.1 m |
| 118° | -21.5 m | 238° | 33.8 m | 358° | 31.0 m |
| 119° | -22.3 m | 239° | 33.8 m | 359° | 30.7 m |

Print Results?

New Calculation?