

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude **41° 23' 3" North**

Longitude **73° 34' 35" West (NAD 27)**

These coordinates convert to NAD 83 coordinates of
41° 23' 03.34", North, 73° 34' 33.45" West (NAD 83).

Height of antenna radiation center above mean sea level: **160 meters AMSL**

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

Results

Calculated HAAT = **-27 meters**

Antenna Height Above Average Terrain calculated
using 1 km **GLOBE terrain data**

Individual "Radial HAAT" Values, in meters

0°	-26.2 m	120°	-36.3 m	240°	19.1 m
1°	-31.9 m	121°	-35.4 m	241°	17.6 m
2°	-37.3 m	122°	-35.1 m	242°	16.7 m
3°	-46.2 m	123°	-36.1 m	243°	15.9 m
4°	-56.1 m	124°	-37.4 m	244°	14.9 m
5°	-66.6 m	125°	-39.1 m	245°	13.0 m
6°	-71.3 m	126°	-40.4 m	246°	10.8 m
7°	-73.3 m	127°	-41.5 m	247°	8.8 m
8°	-75.3 m	128°	-41.7 m	248°	6.9 m
9°	-77.8 m	129°	-41.2 m	249°	5.6 m
10°	-77.6 m	130°	-40.8 m	250°	4.9 m
11°	-73.1 m	131°	-40.0 m	251°	4.7 m
12°	-67.0 m	132°	-38.4 m	252°	4.7 m
13°	-64.7 m	133°	-37.7 m	253°	3.9 m
14°	-63.9 m	134°	-39.1 m	254°	1.8 m
15°	-59.6 m	135°	-43.3 m	255°	-1.1 m
16°	-49.3 m	136°	-48.4 m	256°	-5.0 m
17°	-38.4 m	137°	-52.0 m	257°	-9.4 m
18°	-33.5 m	138°	-54.0 m	258°	-12.3 m
19°	-35.4 m	139°	-54.6 m	259°	-13.2 m
20°	-41.4 m	140°	-54.6 m	260°	-12.4 m
21°	-49.5 m	141°	-53.2 m	261°	-8.9 m
22°	-56.3 m	142°	-50.5 m	262°	-5.5 m
23°	-59.1 m	143°	-47.3 m	263°	-3.8 m
24°	-58.2 m	144°	-44.8 m	264°	-3.1 m
25°	-58.1 m	145°	-43.6 m	265°	-3.5 m
26°	-60.8 m	146°	-43.8 m	266°	-4.7 m
27°	-65.3 m	147°	-45.3 m	267°	-6.6 m
28°	-68.9 m	148°	-47.4 m	268°	-9.1 m
29°	-70.8 m	149°	-49.8 m	269°	-12.2 m

30°	-72.6 m	150°	-53.4 m	270°	-15.3 m
31°	-72.8 m	151°	-58.2 m	271°	-18.4 m
32°	-69.6 m	152°	-63.4 m	272°	-21.1 m
33°	-65.9 m	153°	-68.1 m	273°	-22.2 m
34°	-65.6 m	154°	-71.2 m	274°	-22.8 m
35°	-68.5 m	155°	-73.0 m	275°	-23.6 m
36°	-72.2 m	156°	-74.8 m	276°	-24.8 m
37°	-75.0 m	157°	-76.6 m	277°	-23.7 m
38°	-75.1 m	158°	-77.8 m	278°	-23.7 m
39°	-73.2 m	159°	-76.8 m	279°	-22.9 m
40°	-71.3 m	160°	-73.9 m	280°	-25.2 m
41°	-69.6 m	161°	-70.2 m	281°	-29.2 m
42°	-66.8 m	162°	-66.3 m	282°	-32.9 m
43°	-62.1 m	163°	-62.1 m	283°	-35.0 m
44°	-57.0 m	164°	-56.8 m	284°	-36.2 m
45°	-53.1 m	165°	-51.0 m	285°	-37.7 m
46°	-50.8 m	166°	-44.7 m	286°	-38.2 m
47°	-50.2 m	167°	-40.5 m	287°	-35.8 m
48°	-49.7 m	168°	-38.5 m	288°	-31.6 m
49°	-48.8 m	169°	-37.0 m	289°	-27.9 m
50°	-48.6 m	170°	-34.8 m	290°	-25.9 m
51°	-49.6 m	171°	-30.9 m	291°	-24.5 m
52°	-51.3 m	172°	-27.5 m	292°	-24.1 m
53°	-53.1 m	173°	-24.7 m	293°	-23.5 m
54°	-53.8 m	174°	-21.2 m	294°	-23.0 m
55°	-53.4 m	175°	-16.9 m	295°	-22.8 m
56°	-53.1 m	176°	-14.2 m	296°	-21.5 m
57°	-53.2 m	177°	-16.3 m	297°	-21.0 m
58°	-54.2 m	178°	-18.7 m	298°	-22.7 m
59°	-55.6 m	179°	-19.9 m	299°	-27.4 m
60°	-56.1 m	180°	-18.7 m	300°	-33.7 m
61°	-54.6 m	181°	-17.6 m	301°	-38.5 m
62°	-51.9 m	182°	-15.2 m	302°	-41.3 m
63°	-48.3 m	183°	-12.3 m	303°	-42.2 m
64°	-44.4 m	184°	-9.4 m	304°	-42.9 m
65°	-40.6 m	185°	-7.3 m	305°	-42.4 m
66°	-36.7 m	186°	-4.6 m	306°	-40.3 m
67°	-33.8 m	187°	-2.0 m	307°	-37.7 m
68°	-31.3 m	188°	0.4 m	308°	-36.2 m
69°	-28.0 m	189°	2.9 m	309°	-36.5 m
70°	-24.2 m	190°	6.4 m	310°	-38.7 m
71°	-19.6 m	191°	9.6 m	311°	-42.1 m
72°	-16.5 m	192°	11.1 m	312°	-46.0 m
73°	-14.1 m	193°	10.5 m	313°	-49.7 m
74°	-12.7 m	194°	8.2 m	314°	-52.0 m
75°	-10.3 m	195°	4.7 m	315°	-52.2 m
76°	-8.0 m	196°	2.3 m	316°	-50.9 m
77°	-6.7 m	197°	0.7 m	317°	-50.2 m
78°	-5.1 m	198°	0.3 m	318°	-50.6 m
79°	-3.2 m	199°	0.4 m	319°	-51.4 m
80°	-0.3 m	200°	1.4 m	320°	-51.3 m
81°	2.5 m	201°	3.1 m	321°	-51.2 m
82°	4.7 m	202°	5.5 m	322°	-52.5 m
83°	7.5 m	203°	7.1 m	323°	-55.0 m
84°	9.4 m	204°	8.0 m	324°	-58.2 m
85°	10.4 m	205°	9.2 m	325°	-60.7 m
86°	10.7 m	206°	11.7 m	326°	-61.1 m
87°	10.0 m	207°	14.9 m	327°	-59.1 m
88°	9.9 m	208°	17.4 m	328°	-57.0 m
89°	10.6 m	209°	18.4 m	329°	-56.0 m
90°	11.3 m	210°	18.5 m	330°	-56.7 m
91°	12.0 m	211°	19.2 m	331°	-59.2 m
92°	12.6 m	212°	20.5 m	332°	-63.1 m
93°	12.0 m	213°	21.9 m	333°	-66.8 m
94°	10.4 m	214°	23.3 m	334°	-68.7 m

95°	7.7 m	215°	23.8 m	335°	-68.1 m
96°	3.8 m	216°	24.0 m	336°	-64.3 m
97°	-0.3 m	217°	26.3 m	337°	-57.4 m
98°	-4.7 m	218°	30.4 m	338°	-49.0 m
99°	-10.0 m	219°	33.3 m	339°	-41.1 m
100°	-14.9 m	220°	33.9 m	340°	-34.5 m
101°	-20.0 m	221°	33.1 m	341°	-29.6 m
102°	-25.4 m	222°	31.4 m	342°	-26.4 m
103°	-29.1 m	223°	28.8 m	343°	-23.6 m
104°	-30.6 m	224°	26.6 m	344°	-19.8 m
105°	-31.6 m	225°	25.9 m	345°	-16.2 m
106°	-33.5 m	226°	26.8 m	346°	-13.6 m
107°	-36.0 m	227°	28.3 m	347°	-11.6 m
108°	-38.6 m	228°	29.6 m	348°	-10.3 m
109°	-40.2 m	229°	30.5 m	349°	-10.8 m
110°	-40.0 m	230°	30.9 m	350°	-12.8 m
111°	-38.9 m	231°	31.4 m	351°	-15.5 m
112°	-37.5 m	232°	32.2 m	352°	-17.6 m
113°	-36.3 m	233°	32.7 m	353°	-18.6 m
114°	-35.6 m	234°	32.0 m	354°	-18.3 m
115°	-35.7 m	235°	29.9 m	355°	-15.9 m
116°	-36.8 m	236°	27.6 m	356°	-12.7 m
117°	-38.2 m	237°	25.2 m	357°	-14.1 m
118°	-38.2 m	238°	23.1 m	358°	-16.9 m
119°	-37.2 m	239°	20.9 m	359°	-20.6 m

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