

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude **41° 40' 54" North**
 Longitude **73° 29' 13" West (NAD 27)**

These coordinates convert to NAD 83 coordinates of
 41° 40' 54.34", North, 73° 29' 11.45" West (NAD 83).

Height of antenna radiation center above mean sea level: **274 meters AMSL**

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

Results

Calculated HAAT = **26 meters**

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

Individual "Radial HAAT" Values, in meters

0°	10.1 m	120°	49.1 m	240°	82.2 m
1°	1.4 m	121°	54.7 m	241°	82.8 m
2°	-7.4 m	122°	61.8 m	242°	80.9 m
3°	-12.7 m	123°	68.5 m	243°	76.0 m
4°	-17.3 m	124°	73.8 m	244°	69.5 m
5°	-21.0 m	125°	77.0 m	245°	62.7 m
6°	-26.8 m	126°	77.8 m	246°	57.6 m
7°	-31.3 m	127°	76.6 m	247°	53.3 m
8°	-35.4 m	128°	75.0 m	248°	49.7 m
9°	-39.7 m	129°	74.1 m	249°	47.1 m
10°	-43.5 m	130°	73.3 m	250°	43.5 m
11°	-43.9 m	131°	72.6 m	251°	39.6 m
12°	-42.7 m	132°	71.5 m	252°	35.5 m
13°	-40.1 m	133°	70.4 m	253°	32.8 m
14°	-37.9 m	134°	69.9 m	254°	31.3 m
15°	-35.2 m	135°	70.7 m	255°	31.3 m
16°	-32.7 m	136°	72.2 m	256°	32.3 m
17°	-28.8 m	137°	73.9 m	257°	33.9 m
18°	-23.2 m	138°	76.1 m	258°	35.9 m
19°	-15.3 m	139°	79.2 m	259°	38.4 m
20°	-5.6 m	140°	81.7 m	260°	41.1 m
21°	4.6 m	141°	83.1 m	261°	44.1 m
22°	14.3 m	142°	84.7 m	262°	47.1 m
23°	22.4 m	143°	86.6 m	263°	47.9 m
24°	28.7 m	144°	89.5 m	264°	47.6 m
25°	34.4 m	145°	92.0 m	265°	45.7 m
26°	41.4 m	146°	94.2 m	266°	43.6 m
27°	51.5 m	147°	96.9 m	267°	41.3 m
28°	65.7 m	148°	100.2 m	268°	39.4 m
29°	80.3 m	149°	104.1 m	269°	40.5 m

30°	88.6 m	150°	108.3 m	270°	42.6 m
31°	86.6 m	151°	113.6 m	271°	44.7 m
32°	73.4 m	152°	119.8 m	272°	46.8 m
33°	51.3 m	153°	125.8 m	273°	49.7 m
34°	24.2 m	154°	128.7 m	274°	52.3 m
35°	-2.9 m	155°	129.2 m	275°	53.5 m
36°	-26.3 m	156°	131.1 m	276°	54.6 m
37°	-46.2 m	157°	136.3 m	277°	53.0 m
38°	-64.1 m	158°	141.8 m	278°	51.9 m
39°	-77.5 m	159°	145.4 m	279°	50.0 m
40°	-84.9 m	160°	147.3 m	280°	48.7 m
41°	-89.9 m	161°	148.6 m	281°	47.1 m
42°	-95.5 m	162°	148.0 m	282°	43.7 m
43°	-101.5 m	163°	143.0 m	283°	39.2 m
44°	-105.0 m	164°	132.9 m	284°	35.6 m
45°	-106.0 m	165°	120.1 m	285°	32.6 m
46°	-105.8 m	166°	108.7 m	286°	29.6 m
47°	-105.4 m	167°	100.8 m	287°	26.0 m
48°	-105.4 m	168°	97.5 m	288°	22.1 m
49°	-105.5 m	169°	97.1 m	289°	19.4 m
50°	-106.1 m	170°	99.4 m	290°	16.1 m
51°	-107.1 m	171°	97.8 m	291°	12.9 m
52°	-107.8 m	172°	95.7 m	292°	9.8 m
53°	-108.1 m	173°	94.6 m	293°	6.6 m
54°	-108.0 m	174°	96.5 m	294°	4.0 m
55°	-107.7 m	175°	103.2 m	295°	0.6 m
56°	-107.0 m	176°	108.8 m	296°	-3.2 m
57°	-105.0 m	177°	116.6 m	297°	-6.8 m
58°	-102.0 m	178°	117.7 m	298°	-9.0 m
59°	-98.3 m	179°	112.2 m	299°	-9.6 m
60°	-94.6 m	180°	106.7 m	300°	-9.3 m
61°	-91.2 m	181°	102.0 m	301°	-9.5 m
62°	-88.9 m	182°	97.2 m	302°	-10.7 m
63°	-87.1 m	183°	92.0 m	303°	-12.0 m
64°	-85.4 m	184°	86.3 m	304°	-12.3 m
65°	-83.1 m	185°	78.4 m	305°	-10.2 m
66°	-79.7 m	186°	71.1 m	306°	-5.0 m
67°	-75.3 m	187°	64.0 m	307°	1.4 m
68°	-69.3 m	188°	55.6 m	308°	8.6 m
69°	-62.7 m	189°	45.2 m	309°	12.9 m
70°	-55.2 m	190°	36.6 m	310°	12.2 m
71°	-47.6 m	191°	28.1 m	311°	7.6 m
72°	-40.7 m	192°	22.2 m	312°	3.1 m
73°	-33.8 m	193°	17.8 m	313°	0.2 m
74°	-25.2 m	194°	15.8 m	314°	-1.0 m
75°	-17.0 m	195°	15.4 m	315°	-0.6 m
76°	-10.9 m	196°	14.7 m	316°	1.9 m
77°	-8.4 m	197°	12.5 m	317°	5.5 m
78°	-8.8 m	198°	9.3 m	318°	7.5 m
79°	-9.3 m	199°	7.1 m	319°	6.3 m
80°	-8.1 m	200°	7.5 m	320°	2.0 m
81°	-3.7 m	201°	9.4 m	321°	-3.3 m
82°	-0.1 m	202°	10.5 m	322°	-8.0 m
83°	0.9 m	203°	11.3 m	323°	-10.9 m
84°	1.2 m	204°	13.3 m	324°	-12.0 m
85°	1.0 m	205°	15.7 m	325°	-12.5 m
86°	1.1 m	206°	17.6 m	326°	-12.9 m
87°	0.6 m	207°	20.3 m	327°	-15.7 m
88°	3.1 m	208°	24.8 m	328°	-21.5 m
89°	6.4 m	209°	31.0 m	329°	-26.3 m
90°	9.7 m	210°	37.1 m	330°	-27.0 m
91°	13.0 m	211°	42.4 m	331°	-23.4 m
92°	14.9 m	212°	47.5 m	332°	-19.1 m
93°	17.8 m	213°	52.0 m	333°	-16.5 m
94°	19.5 m	214°	56.0 m	334°	-12.0 m

95°	21.3 m	215°	60.0 m	335°	-0.9 m
96°	23.7 m	216°	63.8 m	336°	11.0 m
97°	24.0 m	217°	66.8 m	337°	16.2 m
98°	24.1 m	218°	68.5 m	338°	13.4 m
99°	23.0 m	219°	69.9 m	339°	7.5 m
100°	22.3 m	220°	71.3 m	340°	3.3 m
101°	23.2 m	221°	73.6 m	341°	4.4 m
102°	25.3 m	222°	76.2 m	342°	9.1 m
103°	28.8 m	223°	77.8 m	343°	13.4 m
104°	33.3 m	224°	78.5 m	344°	17.7 m
105°	37.2 m	225°	78.6 m	345°	21.6 m
106°	39.0 m	226°	78.4 m	346°	23.9 m
107°	38.5 m	227°	77.0 m	347°	25.0 m
108°	36.6 m	228°	74.9 m	348°	27.6 m
109°	33.5 m	229°	73.0 m	349°	27.0 m
110°	30.5 m	230°	71.9 m	350°	23.4 m
111°	28.0 m	231°	71.5 m	351°	22.6 m
112°	26.3 m	232°	71.8 m	352°	22.5 m
113°	25.6 m	233°	71.3 m	353°	18.7 m
114°	26.5 m	234°	70.4 m	354°	13.0 m
115°	28.7 m	235°	69.9 m	355°	10.6 m
116°	32.7 m	236°	71.6 m	356°	11.7 m
117°	37.3 m	237°	74.2 m	357°	16.1 m
118°	41.5 m	238°	77.7 m	358°	15.8 m
119°	45.3 m	239°	80.4 m	359°	15.7 m

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