

100mc = 3m = 9.84 ft. 10/24/57

Get file angle $\phi = 65^\circ$

leg length = $40 / \cos 25^\circ = 40 / .91 = 44 \text{ ft}$

$44 / 9.84 = 4.5$ wavelengths

Half width at center = $40 \tan 25^\circ$

= $40 \cdot .466 = 18.7 \text{ ft}$ from center

say 19 ft

Brace = 22 ft long, $22^2 = 484$

antennas spaced 5 ft apart and 1 ft wide at center of rhombic.

Brace and 18 ft high, $18^2 = 324$

$484 - 324 = 160$, $\sqrt{160} = 12.65 \text{ ft}$.

Brace Bottom say 12 ft 8" from pole.

End stang 18ft high at top and
30ft along bottom, length = $(900+324)^{1/2}$
 $= (1224)^{1/2} = 35 \text{ ft. } (6-3/4 + 2-8 \text{ ft})$

Side stang 18ft high at top and
21ft along bottom, length = $(441+324)^{1/2}$
 $= (765)^{1/2} = 27.6 \text{ ft } (6-3/4 + 1-8 \text{ ft})$

~~McKinnon~~

~~472 Bank St.~~

~~American Journal~~



