



# End fed 9:1 UN-UN

END FED ANTENNA  
132 FEET INVERTED 'L'

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## Antenna Design

The Antenna used for the Solar Eclipse QSO Party was a 132 feet End fed wire antenna being balanced using a home brew 9:1 UN-UN. One end of the Antenna was tied to an insulator and antenna rope to the top of a Maple tree almost 45 feet high. The other end at 90 feet length antenna wire was to an insulator tied to a rope to the tip of a 42 feet MFJ fiber pole attached and supported by a wooden fence. The remaining length of 42 feet was in the form of a slope at 45 degrees. The antenna is from the tree at the north side of the home to the fence corner at the south side of the home.

- Antenna end was attached to the home brew 9:1 UN-UN, with a ground cable attached to a ground rod about 6 feet deep. (Note: Ground rod was not copper and was Iron)
- The antenna feed with a SO-239 Connector (M Type ) was attached to a regular RG-58 feed line on the floor to a Yaesu FT-897D radio auto tuner .
- The SWR of the antenna was close to 1:1 on bands 6 m, 10 m, 20 m, 40 m, and 80 m

## STATION DESIGN/LOCATION

The station to operate the radio was at the back-yard garden area with clear view of the sky during Solar eclipse. All test contacts before the Solar Eclipse was done to see propagation before, during and after the Solar Eclipse. Though other bands of 80 M and 10 M were active to some extent by different clubs in other regions, they were not participating in the QSO Party. Only the 20 M band was active during the QSO Party. The station used was a

- Yaesu FT-897D
- AT-897 Plus tuner ( LDG Electronics)
- Radio Shack SWR/Power Meter
- MFJ 12/24 hour Dual LCD Clock
- Dell Inspiron laptop with windows 10 os
- NiMMLogger+ version 1.0.6711.0 in Manual entry mode.
- Microphone Yaesu MH-59
- Total power used to transmit 100 Watts.
- Station under a EZ-UP Canopy with the 9:1 UN-UN on the floor.



Picture gallery, of station operator, KJ6KCG, his radio, powered by a Lithium Iron Phosphate Battery , 12v 15Ah, the Antenna fiber pole with the image of Partial solar eclipse seen through a solar filter, the Partial solar eclipse and the map showing QTH of KJ6KCG.

