



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso

Chairman

August 17, 2010

Kenneth C. Baldwin, Esq.

Robinson & Cole LLP

280 Trumbull Street

Hartford, CT 06103-3597

RE: **EM-VER-142-100225**- Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 5 Ruops Road, Tolland, Connecticut.

Dear Attorney Baldwin:

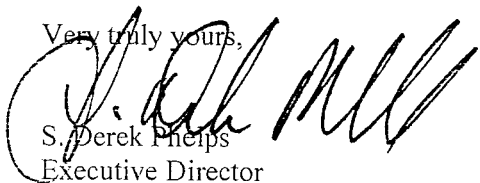
In addition to the Connecticut Siting Council (Council) acknowledgement dated April 5, 2010 (filing dated February 25, 2010), the Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated July 28, 2010, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Frederick M. Daniels, Chairman Town Council, Town of Tolland
Steven R. Werbner, Town Manager, Town of Tolland
Linda Farmer, Town Planner, Town of Tolland
American Tower Corporation

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

ORIGINAL

July 28, 2010

Michael Perrone
Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
JUL 29 2010
CONNECTICUT
SITING COUNCIL

Re: **Cellco Partnership d/b/a Verizon Wireless
5 Ruops Road, Tolland, Connecticut**

Dear Mr. Perrone:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") has maintained a wireless facility at 5 Ruops Road in Tolland since 1996. In 2005, as part of its EVDO antenna upgrade program, the Council approved Cellco's plan to increase the number of antennas at this site from twelve to fifteen. The additional three antennas and related antenna cables were, however, never installed. Today, Cellco maintains twelve antennas on this the Ruops Road along with twelve antenna cables inside the monopole structure.

On April 5, 2010, the Siting Council acknowledged receipt of Cellco's notice of intent to modify the Ruop Road facility further. This modification involved the installation of three LTE antennas, increasing the total number of antennas and antenna cables at this site from twelve to fifteen. The structural analysis prepared by the tower owner, American Tower Corporation, and submitted as a part of Cellco's EM-VER-142-100225 filing, assumed that all antenna cables would fit inside the monopole. Cellco recently discovered that this was not the case. The three additional LTE antenna cables will, therefore, need to be attached to the outside of the tower.



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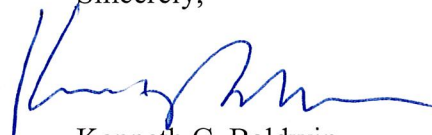
10507948-v1

ROBINSON & COLE_{LLP}

Michael Perrone
July 28, 2010
Page 2

Attached to this letter is an updated Structural Analysis confirming that the tower and its foundation can support Cellco's new LTE antennas and the attachment of the three antenna cable to the outside of the monopole. If you have any questions regarding any of these materials, please do not hesitate to contact me or Rachel Mayo.

Sincerely,



Kenneth C. Baldwin

Attachment

Copy to:

Sandy M. Carter
Brian Ragozzine
Mark Gauger





PASSED

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 155 ft EEI Monopole
ATC Site Name : Tolland CT, CT
ATC Site Number : 302495
Proposed Carrier : Verizon Wireless
Carrier Site Name : Tolland
Carrier Site Number : N/A
County : Tolland
Eng. Number : 44395823
Date : July 1, 2010
Usage : 100% (Pole Shaft), 100% (Anchor Bolts)

Submitted by:
Billy Davis, P.E.
Project Engineer

American Tower Engineering Services
8505 Freeport Parkway
Suite 135
Irving, TX 75063
Phone: 972-999-8900



Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 155 ft Engineered Endeavors Inc Monopole located at Tolland CT, Tolland County, CT (ATC site # 302495). The tower was originally designed and manufactured by Engineered Endeavors Inc (Drawing # GS50842 dated June 24, 1998). The original base plate was reinforced as per SpectraSite dwg # M1 dated November 15, 2004. These modifications were considered in the current analysis.

Analysis

The existing tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. A 5% overstress is allowed in the existing structural members to account for program variances.

Basic Wind Speed: 85.0 mph (Fastest Mile)
 Radial Ice: 73.61 mph (Fastest Mile) w/ 1/2" ice Concurrent
 Standard/Code: TIA/EIA-222-F / 2003 IBC Section 1609.1.1, Exception (4) and Section 3108.4 / 2005 & 2008 CT Supplement

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

| Elev. (ft) | Qty | Antennas | Mount | Coax (I/O) | Carrier |
|------------|-----|------------------------|-----------------------------------|-------------------------------|------------------|
| 163.3 | 3 | EMS RR90-17-00DPL2 | Antennas are in Concealment Mount | (6) 1 5/8 (I) | T-Mobile |
| | 6 | TTA | | | |
| 150.0 | 1 | 7' Omni | Platform w/ Handrails | (9) 1 1/4(I) (3) 1 1/4(OI) | USA Mobility |
| | 6 | Diplexer / Coupler | | | |
| | 3 | Powerwave 7770.00 | | | AT&T Mobility |
| | 6 | CSS DUO4-8670 | | | |
| | 6 | ADC DD800 | | | |
| 142.0 | 6 | Andrew DB948F85T2E-M | Platform w/ Handrails | (12) 1 5/8 (I) | Verizon Wireless |
| | 6 | Swedcom ALP 9212-N | | | |
| 130.0 | 5 | Decibel DB980H65T2E-ML | Platform w/ Handrails | (9) 1 5/8 (I) | Sprint Nextel |
| | 4 | Decibel DB980H90A-KL | | | |
| 115.0 | 3 | 72" x 12" Panel | Platform w/ Handrails | (12) 1 5/8(I) | |
| | 9 | 48" x 12" Panel | | | |
| 105.0 | 3 | RFS APXV18-206517LS-C | Flush Mount | (6) 1 5/8 (I) | Youghiogheny |
| 81.0 | 1 | GPS | Stand Off Mount | (1) 1/2 (O) | T-Mobile |
| 61.0 | 2 | GPS | Stand Off Mounts | (2) 1/2 (O) | Sprint Nextel |
| 55.0 | 1 | GPS | Stand Off Mount | (1) 1/2 (O) | |
| 15.0 | 1 | Dish Standard | Dish Mount | (1) RG6 (O) | USA Mobility |

Antenna Loads continued**Proposed Antennas**

| Elev. (ft) | Qty | Antennas | Mount | Coax (I/O) | Carrier |
|---------------|-----|-----------------------|-----------------------|---------------|------------------|
| 142.0 | 3 | Powerwave P65-15-XL-2 | Platform w/ Handrails | (3) 1 5/8 (O) | Verizon Wireless |

Note: (O) – Coax installed outside the pole shafts. (I) – Coax installed inside the pole shafts.

The existing and the proposed transmission lines were considered running inside or outside the pole shafts as indicated above. If the proposed lines are installed outside the pole, these lines shall be strapped tightly to the face of the pole shafts. Stacking lines are not allowed.

Results

The existing 155 ft EEI Monopole with the existing and the proposed antennas is structurally acceptable per ANSI/TIA-222-F and IBC 2003 standards. The maximum structural usages are: 100% (pole shaft) and 100% (anchor bolts.).

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports may not be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower's Engineering Department under a subsequent project.

| Pole Reactions | Original Design Reactions | Current Analysis Reactions | % Of Design |
|------------------|------------------------------|-------------------------------|----------------|
| Moment (ft-kips) | 3,309.00 | 3508.06 | 106 |
| Shear (kips) | 32.20 | 33.79 | 105 |

The structure base reactions resulting from this analysis exceed the ones shown on the original structural drawings or calculations. However, upon reviewing the foundation and the soil documents, the existing foundation was found to be adequate to resist the new reactions. Therefore, no modification to the existing foundation is required.

Conclusion

The existing monopole and its foundation were found to be adequate to support the existing and proposed antennas with the transmission line distribution as described above while meeting the requirements of the code or standard as specified in this report.

If you have any questions or require additional information, please call (972) 999-8900.

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

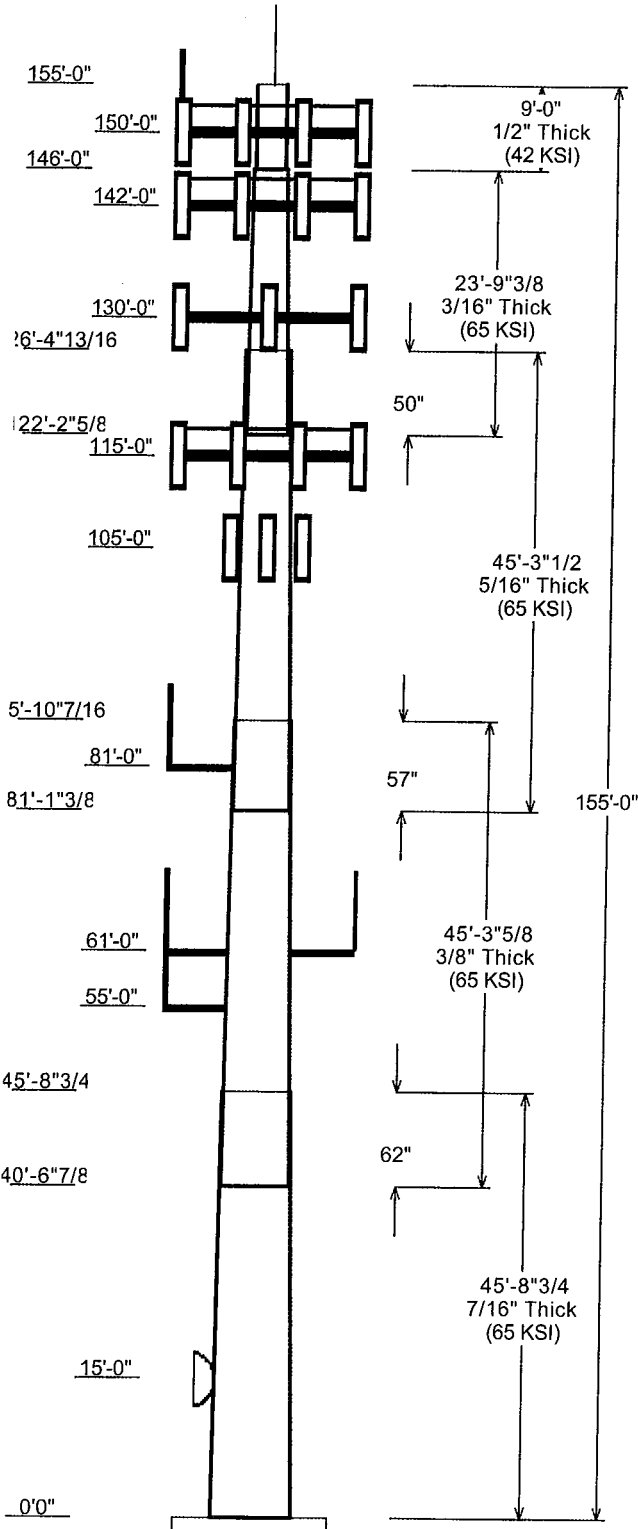
- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

| Job Information | |
|---|-------------------------|
| Pole : 302495 | Code: TIA/EIA-222 Rev F |
| Description : EEI 155' Monopole With Canister | |
| Client : Verizon Wireless | |
| Location : Tolland CT, CT | |
| Shape : 12 Sides | Base Elev (ft): 0.00 |
| Height : 155.00 (ft) | Taper: 0.210616(in/ft) |



| Sections Properties | | | | | | | | |
|---------------------|-------------|---------------|--------------|------------------|------------|-------------|---------------|-------------------|
| Shaft Section | Length (ft) | Diameter (in) | | Thick Joint (in) | Type | Overlap | | Steel Grade (ksi) |
| | | Across Top | Flats Bottom | | | Length (in) | Taper (in/ft) | |
| 1 | 45.730 | 40.36 | 50.00 | 0.438 | | 0.000 | 0.210616 | 65 |
| 2 | 45.300 | 32.66 | 42.20 | 0.375 | Slip Joint | 61.910 | 0.210616 | 65 |
| 3 | 45.290 | 24.75 | 34.29 | 0.313 | Slip Joint | 57.090 | 0.210616 | 65 |
| 4 | 23.780 | 21.00 | 26.00 | 0.188 | Slip Joint | 50.196 | 0.210616 | 65 |
| 5 | 9.000 | 18.00 | 18.00 | 0.500 | Butt Joint | 0.000 | 0.000000 | 42 |

| Discrete Appurtenance | | | |
|-----------------------|-----------------|-----|----------------------------|
| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
| 155.000 | 163.300 | 1 | Canister |
| 150.000 | 153.500 | 1 | 7' Omni |
| 150.000 | 150.000 | 3 | Powerwave 7770.00 |
| 150.000 | 150.000 | 1 | Platform w/ Handrails |
| 150.000 | 150.000 | 6 | CSS DUO4-8670 |
| 150.000 | 150.000 | 6 | ADC DD800 |
| 142.000 | 142.000 | 6 | Andrew DB948F85E-M |
| 142.000 | 142.000 | 3 | Powerwave P65-15-XL-2 |
| 142.000 | 142.000 | 6 | Swedcom ALP 9212-N |
| 142.000 | 142.000 | 1 | Platform w/ Handrails |
| 130.000 | 130.000 | 5 | Decibel DB980H65T2E-M |
| 130.000 | 130.000 | 4 | Decibel DB980H90A-KL |
| 130.000 | 130.000 | 1 | Flat Platform w/ Handrails |
| 115.000 | 115.000 | 3 | 72" x 12" Panel |
| 115.000 | 115.000 | 9 | 48" x 12" Panel |
| 115.000 | 115.000 | 1 | Platform w/ Handrails |
| 105.000 | 105.000 | 3 | RFS APXV18-206517LS-C |
| 105.000 | 105.000 | 1 | Flush Mounts |
| 81.000 | 81.500 | 1 | GPS |
| 81.000 | 81.000 | 1 | Stand Off |
| 61.000 | 61.500 | 2 | GPS |
| 61.000 | 61.000 | 2 | Stand Off |
| 55.000 | 55.167 | 1 | 2" x 4" GPS |
| 55.000 | 55.000 | 1 | Stand Off |
| 15.000 | 15.000 | 1 | Dish Standard |

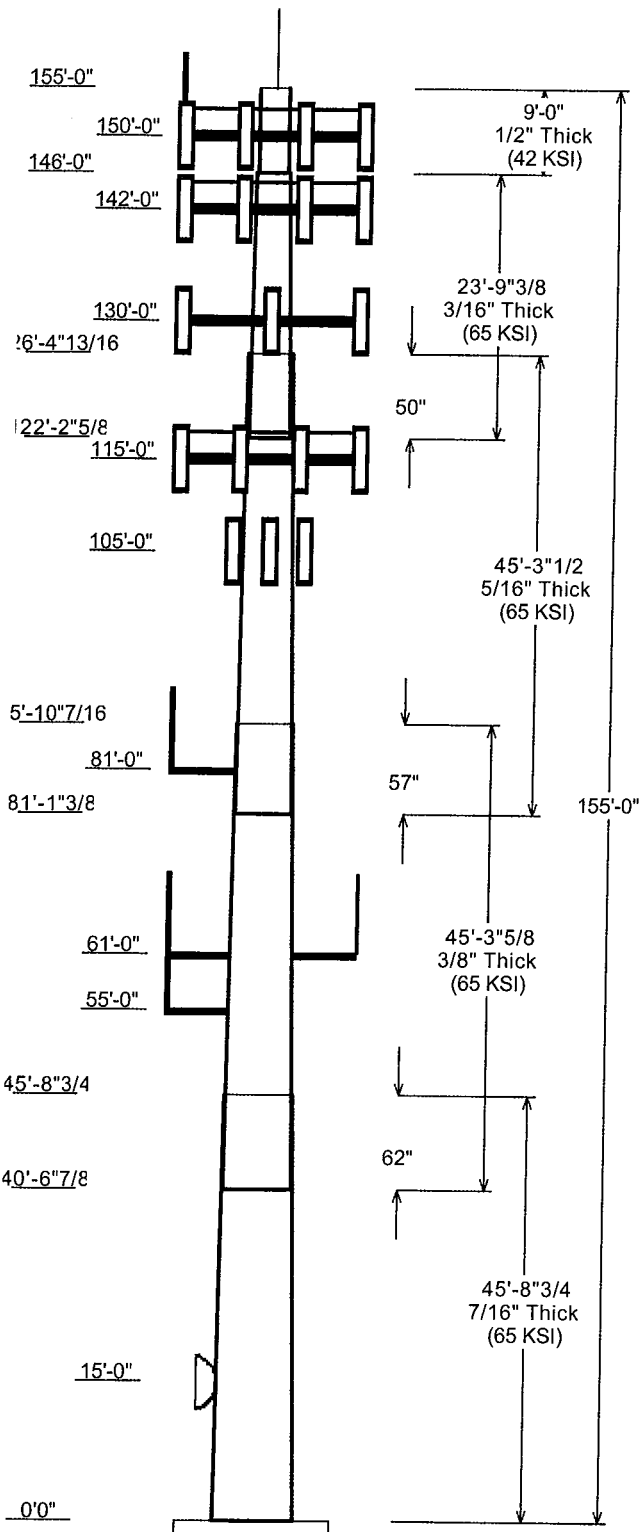
| Linear Appurtenance | | | |
|---------------------|--------|-------------|-----------------|
| Elev (ft) | | Description | Exposed To Wind |
| From | To | | |
| 142.0 | 150.0 | 1 1/4" Coax | Yes |
| 0.000 | 155.0 | 1 5/8" Coax | No |
| 0.000 | 15.000 | RG6 Coax | Yes |
| 0.000 | 55.000 | 1/2" Coax | Yes |
| 0.000 | 61.000 | 1/2" Coax | Yes |
| 0.000 | 61.000 | 1/2" Coax | Yes |
| 0.000 | 81.000 | 1/2" Coax | Yes |
| 0.000 | 105.0 | 1 5/8" Coax | No |
| 0.000 | 115.0 | 1 5/8" Coax | No |
| 0.000 | 130.0 | 1 5/8" Coax | No |
| 0.000 | 142.0 | 1 1/4" Coax | No |
| 0.000 | 142.0 | 1 5/8" Coax | No |
| 0.000 | 142.0 | 1 5/8" Coax | Yes |

| | | | |
|-------|-------|-------------|----|
| 0.000 | 150.0 | 1 1/4" Coax | No |
| 0.000 | 150.0 | 1 1/4" Coax | No |

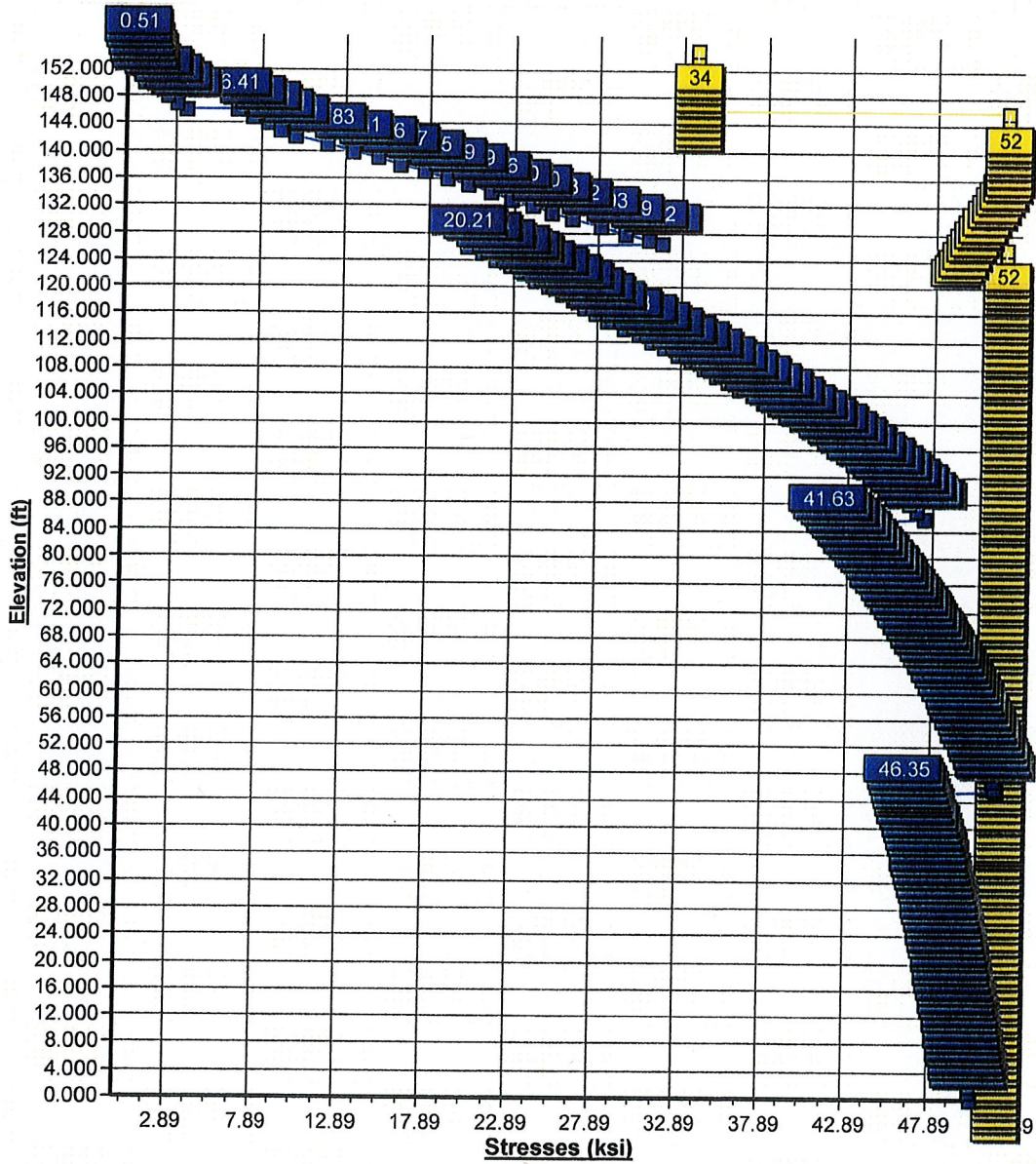
| Load Cases | |
|------------|----------------------------|
| No Ice | 85.00 mph Wind with No Ice |
| Ice | 73.61 mph Wind with Ice |
| Twist/Sway | 50.00 mph Wind with No Ice |

| Reactions | | | |
|------------|-----------------|--------------|--------------|
| Load Case | Moment (Kip-ft) | Shear (Kips) | Axial (Kips) |
| No Ice | 3508.06 | 33.79 | 41.76 |
| Ice | 3211.91 | 29.68 | 50.73 |
| Twist/Sway | 1216.18 | 11.69 | 41.77 |

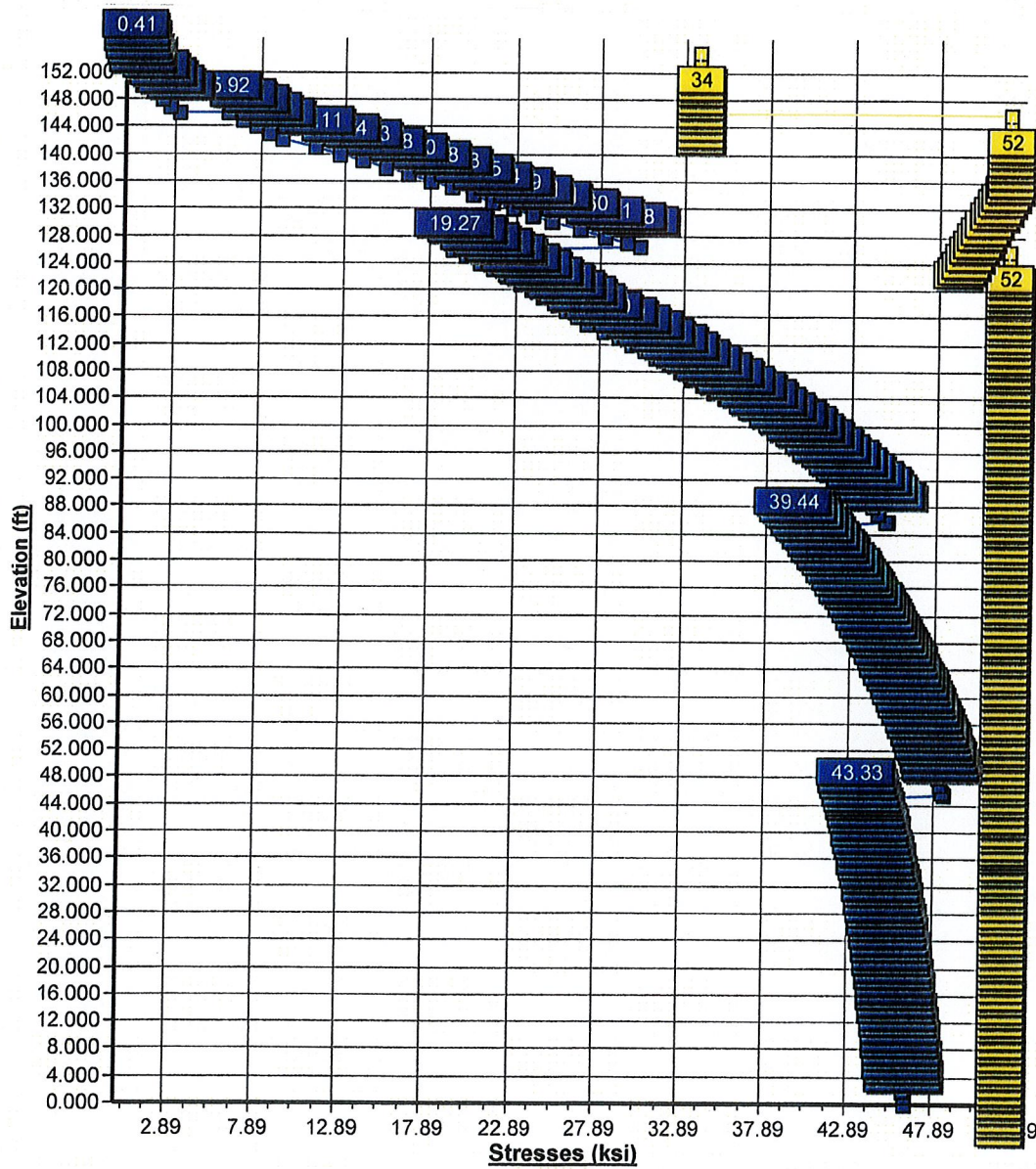
| Dish Deflections | | | |
|------------------|------------------|-----------------|----------------|
| Load Case | Attach Elev (ft) | Deflection (in) | Rotation (deg) |
| Twist/Sway | 15.00 | 0.378 | 0.241 |



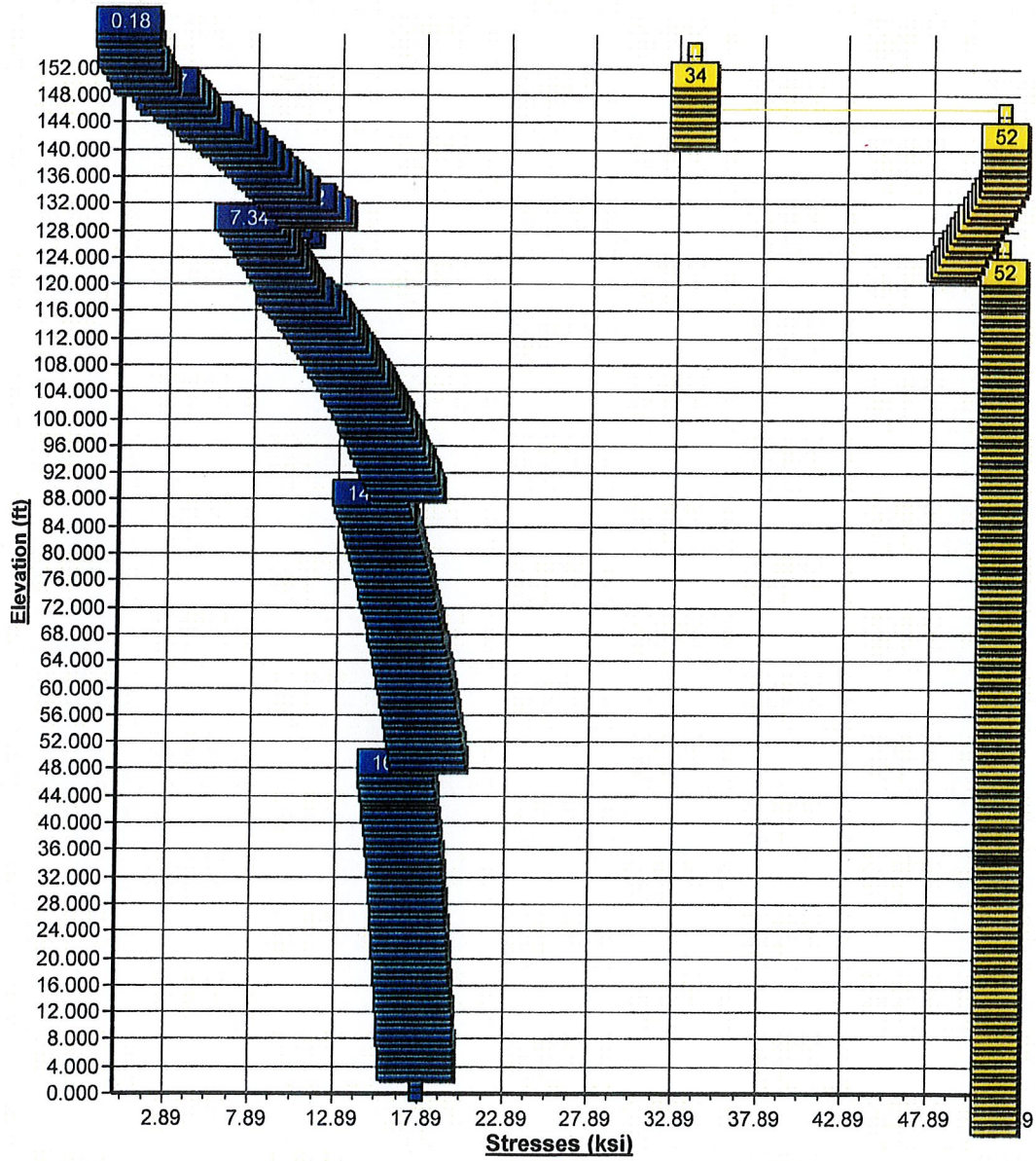
Load Case : No Ice
Max Stress 99.5% at 45.7ft



Load Case : Ice
Max Stress 93.1% at 45.7ft



Load Case : Twist/Sway
Max Stress 35.3% at 45.7ft

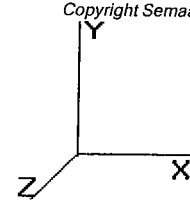


Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Shaft Section Properties

| Sect Num | Length (ft) | Thick (in) | Fv (ksi) | Joint Type | Slip Joint Len (in) | Weight (lb) | Bottom | | | | Top | | | | Taper (in/ft) | | | | |
|--------------|-------------|------------|----------|------------|---------------------|-------------|----------|-----------|-------------|-----------|-----------|-----------|----------|-----------|---------------|-------------|-----------|-----------|-----------|
| | | | | | | | Dia (in) | Elev (ft) | Area (sqin) | Ix (in^4) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | | Area (sqin) | Ix (in^4) | W/t Ratio | D/t Ratio |
| 1 | 45.730 | 0.4375 | 65 | | 0.00 | 9,809 | 50.00 | 0.000 | 69.82 | 21891.7 | 28.48 | 114.2 | 40.36 | 45.73 | 56.25 | 11448.6 | 22.58 | 92.27 | 0.21062 |
| 2 | 45.300 | 0.3750 | 65 | Slip Joint | 61.91 | 6,898 | 42.20 | 40.57 | 50.51 | 11280.8 | 28.01 | 112.5 | 32.66 | 85.87 | 38.99 | 5188.6 | 21.20 | 87.10 | 0.21062 |
| 3 | 45.290 | 0.3125 | 65 | Slip Joint | 57.09 | 4,530 | 34.29 | 81.11 | 34.19 | 5038.6 | 27.26 | 109.7 | 24.75 | 126.4 | 24.59 | 1875.0 | 19.08 | 79.21 | 0.21062 |
| 4 | 23.780 | 0.1875 | 65 | Slip Joint | 50.20 | 1,139 | 26.00 | 122.2 | 15.59 | 1326.7 | 35.02 | 138.7 | 21.00 | 146.0 | 12.57 | 694.7 | 27.87 | 112.00 | 0.21062 |
| 5 | 9.000 | 0.5000 | 42 | Butt Joint | 0.00 | 863 | 18.00 | 146.0 | 28.17 | 1101.4 | 7.50 | 36.00 | 18.00 | 155.0 | 28.17 | 1101.4 | 7.50 | 36.00 | 0.00000 |
| Shaft Weight | | | | | | 23,239 | | | | | | | | | | | | | |

Discrete Appurtenance Properties

| Attach Elev (ft) | Description | Qty | Weight (lb) | No Ice CaAa (sf) | CaAa Factor | Weight (lb) | Ice CaAa (sf) | CaAa Factor | Distance From Face (ft) | Vert Ecc (ft) |
|------------------|----------------------------|-----|-------------|------------------|-------------|-------------|---------------|-------------|-------------------------|---------------|
| 155.0 | Canister | 1 | 500.00 | 12.000 | 1.00 | 750.00 | 13.000 | 1.00 | 0.000 | 8.300 |
| 150.0 | 7' Omni | 1 | 15.00 | 2.100 | 1.00 | 23.00 | 2.800 | 1.00 | 0.000 | 3.500 |
| 150.0 | Powerwave 7770.00 | 3 | 35.00 | 5.880 | 0.74 | 67.63 | 6.530 | 0.74 | 0.000 | 0.000 |
| 150.0 | Platform w/ Handrails | 1 | 2500.00 | 27.000 | 1.00 | 3250.00 | 37.000 | 1.00 | 0.000 | 0.000 |
| 150.0 | CSS DUO4-8670 | 6 | 66.50 | 6.530 | 0.81 | 108.69 | 7.140 | 0.81 | 0.000 | 0.000 |
| 150.0 | ADC DD800 | 6 | 13.90 | 1.250 | 0.50 | 21.40 | 1.480 | 0.50 | 0.000 | 0.000 |
| 142.0 | Andrew DB948F85E-M | 6 | 8.50 | 3.270 | 0.75 | 27.56 | 3.810 | 0.75 | 0.000 | 0.000 |
| 142.0 | Powerwave P65-15-XL-2 | 3 | 21.00 | 5.600 | 0.79 | 55.00 | 6.500 | 0.79 | 0.000 | 0.000 |
| 142.0 | Swedcom ALP 9212-N | 6 | 26.70 | 4.520 | 1.00 | 71.80 | 6.270 | 1.00 | 0.000 | 0.000 |
| 142.0 | Platform w/ Handrails | 1 | 2500.00 | 28.000 | 1.00 | 3250.00 | 38.000 | 1.00 | 0.000 | 0.000 |
| 130.0 | Decibel DB980H65T2E-M | 5 | 8.50 | 3.800 | 0.73 | 29.47 | 4.500 | 0.73 | 0.000 | 0.000 |
| 130.0 | Decibel DB980H90A-KL | 4 | 8.50 | 3.800 | 0.73 | 29.47 | 4.500 | 0.73 | 0.000 | 0.000 |
| 130.0 | Flat Platform w/ Handrails | 1 | 2000.00 | 33.000 | 1.00 | 2450.00 | 45.400 | 1.00 | 0.000 | 0.000 |
| 115.0 | 72" x 12" Panel | 3 | 40.00 | 8.400 | 0.67 | 87.00 | 9.230 | 0.67 | 0.000 | 0.000 |
| 115.0 | 48" x 12" Panel | 9 | 30.00 | 5.600 | 0.67 | 63.00 | 6.190 | 0.67 | 0.000 | 0.000 |
| 115.0 | Platform w/ Handrails | 1 | 2500.00 | 27.000 | 1.00 | 3250.00 | 37.000 | 1.00 | 0.000 | 0.000 |
| 105.0 | RFS APXV18-206517LS-C | 3 | 22.00 | 5.020 | 0.75 | 48.13 | 5.700 | 0.75 | 0.000 | 0.000 |
| 105.0 | Flush Mounts | 1 | 200.00 | 3.500 | 1.00 | 300.00 | 5.500 | 1.00 | 0.000 | 0.000 |
| 81.00 | GPS | 1 | 10.00 | 1.000 | 1.00 | 18.24 | 1.210 | 1.00 | 0.000 | 0.500 |
| 81.00 | Stand Off | 1 | 50.00 | 2.000 | 1.00 | 75.00 | 3.000 | 1.00 | 0.000 | 0.000 |
| 61.00 | GPS | 2 | 10.00 | 1.000 | 1.00 | 18.24 | 1.210 | 1.00 | 0.000 | 0.500 |
| 61.00 | Stand Off | 2 | 50.00 | 2.000 | 1.00 | 75.00 | 3.000 | 1.00 | 0.000 | 0.000 |
| 55.00 | 2" x 4" GPS | 1 | 5.00 | 0.040 | 1.00 | 5.74 | 0.080 | 1.00 | 0.000 | 0.167 |
| 55.00 | Stand Off | 1 | 50.00 | 2.000 | 1.00 | 75.00 | 3.000 | 1.00 | 0.000 | 0.000 |
| 15.00 | Dish Standard | 1 | 188.00 | 20.910 | 1.00 | 277.00 | 21.790 | 1.00 | 0.000 | 0.000 |
| Totals | | 70 | 12032.10 | | | 16892.70 | | | Number of Loadings : | 25 |

Linear Appurtenance Properties

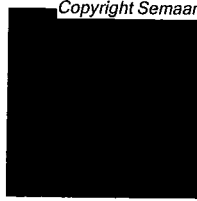
| Elev From (ft) | Elev To (ft) | Description | No Ice Weight (lb/ft) | No Ice CaAa (sf/ft) | Ice Weight (lb/ft) | Ice CaAa (sf/ft) | Exposed To Wind |
|----------------|--------------|------------------|-----------------------|---------------------|--------------------|------------------|-----------------|
| 0.00 | 155.00 | (6) 1 5/8" Coax | 5.00 | 0.00 | 0.00 | 0.00 | N |
| 0.00 | 150.00 | (9) 1 1/4" Coax | 6.00 | 0.00 | 0.00 | 0.00 | N |
| 0.00 | 150.00 | (1) 1 1/4" Coax | 0.63 | 0.00 | 0.00 | 0.00 | N |
| 142.00 | 150.00 | (3) 1 1/4" Coax | 1.89 | 0.00 | 5.70 | 0.20 | Y |
| 0.00 | 142.00 | (3) 1 1/4" Coax | 1.89 | 0.00 | 5.70 | 0.00 | N |
| 0.00 | 142.00 | (12) 1 5/8" Coax | 9.84 | 0.00 | 0.00 | 0.00 | N |
| 0.00 | 142.00 | (3) 1 5/8" Coax | 2.46 | 0.00 | 7.30 | 0.30 | Y |
| 0.00 | 130.00 | (9) 1 5/8" Coax | 7.50 | 0.00 | 0.00 | 0.00 | N |
| 0.00 | 115.00 | (12) 1 5/8" Coax | 10.00 | 0.00 | 0.00 | 0.00 | N |

Pole : 302495
Location : Tolland CT, CT
Height : 155.0 (ft)
Shape : 12 Sides
Base Dia : 50.00 (in)
Top Dia : 18.00 (in)
Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)

| | | | | | | | |
|--------------|--------|-----------------|---------------|------|---------------|------|---|
| 0.00 | 105.00 | (6) 1 5/8" Coax | 5.00 | 0.20 | 0.00 | 0.00 | N |
| 0.00 | 81.00 | (1) 1/2" Coax | 0.15 | 0.06 | 0.30 | 0.00 | Y |
| 0.00 | 61.00 | (1) 1/2" Coax | 0.30 | 0.06 | 0.60 | 0.00 | Y |
| 0.00 | 61.00 | (1) 1/2" Coax | 0.15 | 0.00 | 0.00 | 0.00 | Y |
| 0.00 | 55.00 | (1) 1/2" Coax | 0.15 | 0.00 | 0.00 | 0.00 | Y |
| 0.00 | 15.00 | (1) RG6 Coax | 0.15 | 0.00 | 0.00 | 0.00 | Y |
| Total Weight | | | 6,499.69 (lb) | | 1,953.21 (lb) | | |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

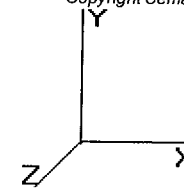
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Page: 3

Base Elev : 0.000 (ft)



Segment Properties (Max Len : 1 ft)

| Seq Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in^2) | Ix (in^4) | W/t Ratio | D/t Ratio | Fy (ksi) | Fb (ksi) | Weight (lb) |
|-------------------|-----------------|------------|---------------|-------------|-----------|-----------|-----------|----------|----------|-------------|
| 0.00 | | 0.4375 | 50.000 | 69.821 | 21,891.7 | 28.48 | 114.29 | 65 | 52 | 0.0 |
| 1.00 | | 0.4375 | 49.789 | 69.524 | 21,613.8 | 28.35 | 113.80 | 65 | 52 | 237.1 |
| 2.00 | | 0.4375 | 49.579 | 69.228 | 21,338.3 | 28.22 | 113.32 | 65 | 52 | 236.1 |
| 3.00 | | 0.4375 | 49.368 | 68.931 | 21,065.1 | 28.09 | 112.84 | 65 | 52 | 235.1 |
| 4.00 | | 0.4375 | 49.158 | 68.634 | 20,794.2 | 27.96 | 112.36 | 65 | 52 | 234.1 |
| 5.00 | | 0.4375 | 48.947 | 68.338 | 20,525.7 | 27.83 | 111.88 | 65 | 52 | 233.0 |
| 6.00 | | 0.4375 | 48.736 | 68.041 | 20,259.5 | 27.71 | 111.40 | 65 | 52 | 232.0 |
| 7.00 | | 0.4375 | 48.526 | 67.744 | 19,995.6 | 27.58 | 110.92 | 65 | 52 | 231.0 |
| 8.00 | | 0.4375 | 48.315 | 67.448 | 19,734.0 | 27.45 | 110.43 | 65 | 52 | 230.0 |
| 9.00 | | 0.4375 | 48.104 | 67.151 | 19,474.8 | 27.32 | 109.95 | 65 | 52 | 229.0 |
| 10.00 | | 0.4375 | 47.894 | 66.854 | 19,217.8 | 27.19 | 109.47 | 65 | 52 | 228.0 |
| 11.00 | | 0.4375 | 47.683 | 66.557 | 18,963.0 | 27.06 | 108.99 | 65 | 52 | 227.0 |
| 12.00 | | 0.4375 | 47.473 | 66.261 | 18,710.5 | 26.93 | 108.51 | 65 | 52 | 226.0 |
| 13.00 | | 0.4375 | 47.262 | 65.964 | 18,460.3 | 26.80 | 108.03 | 65 | 52 | 225.0 |
| 14.00 | | 0.4375 | 47.051 | 65.667 | 18,212.3 | 26.67 | 107.55 | 65 | 52 | 224.0 |
| 15.00 | | 0.4375 | 46.841 | 65.371 | 17,966.6 | 26.54 | 107.06 | 65 | 52 | 222.9 |
| 16.00 | | 0.4375 | 46.630 | 65.074 | 17,723.0 | 26.42 | 106.58 | 65 | 52 | 221.9 |
| 17.00 | | 0.4375 | 46.420 | 64.777 | 17,481.7 | 26.29 | 106.10 | 65 | 52 | 220.9 |
| 18.00 | | 0.4375 | 46.209 | 64.480 | 17,242.6 | 26.16 | 105.62 | 65 | 52 | 219.9 |
| 19.00 | | 0.4375 | 45.998 | 64.184 | 17,005.7 | 26.03 | 105.14 | 65 | 52 | 218.9 |
| 20.00 | | 0.4375 | 45.788 | 63.887 | 16,770.9 | 25.90 | 104.66 | 65 | 52 | 217.9 |
| 21.00 | | 0.4375 | 45.577 | 63.590 | 16,538.3 | 25.77 | 104.18 | 65 | 52 | 216.9 |
| 22.00 | | 0.4375 | 45.366 | 63.294 | 16,307.9 | 25.64 | 103.69 | 65 | 52 | 215.9 |
| 23.00 | | 0.4375 | 45.156 | 62.997 | 16,079.6 | 25.51 | 103.21 | 65 | 52 | 214.9 |
| 24.00 | | 0.4375 | 44.945 | 62.700 | 15,853.5 | 25.38 | 102.73 | 65 | 52 | 213.9 |
| 25.00 | | 0.4375 | 44.735 | 62.404 | 15,629.5 | 25.25 | 102.25 | 65 | 52 | 212.9 |
| 26.00 | | 0.4375 | 44.524 | 62.107 | 15,407.6 | 25.13 | 101.77 | 65 | 52 | 211.8 |
| 27.00 | | 0.4375 | 44.313 | 61.810 | 15,187.9 | 25.00 | 101.29 | 65 | 52 | 210.8 |
| 28.00 | | 0.4375 | 44.103 | 61.513 | 14,970.2 | 24.87 | 100.81 | 65 | 52 | 209.8 |
| 29.00 | | 0.4375 | 43.892 | 61.217 | 14,754.6 | 24.74 | 100.32 | 65 | 52 | 208.8 |
| 30.00 | | 0.4375 | 43.682 | 60.920 | 14,541.1 | 24.61 | 99.84 | 65 | 52 | 207.8 |
| 31.00 | | 0.4375 | 43.471 | 60.623 | 14,329.7 | 24.48 | 99.36 | 65 | 52 | 206.8 |
| 32.00 | | 0.4375 | 43.260 | 60.327 | 14,120.3 | 24.35 | 98.88 | 65 | 52 | 205.8 |
| 33.00 | | 0.4375 | 43.050 | 60.030 | 13,913.0 | 24.22 | 98.40 | 65 | 52 | 204.8 |
| 34.00 | | 0.4375 | 42.839 | 59.733 | 13,707.7 | 24.09 | 97.92 | 65 | 52 | 203.8 |
| 35.00 | | 0.4375 | 42.628 | 59.436 | 13,504.5 | 23.96 | 97.44 | 65 | 52 | 202.8 |
| 36.00 | | 0.4375 | 42.418 | 59.140 | 13,303.2 | 23.84 | 96.95 | 65 | 52 | 201.7 |
| 37.00 | | 0.4375 | 42.207 | 58.843 | 13,104.0 | 23.71 | 96.47 | 65 | 52 | 200.7 |
| 38.00 | | 0.4375 | 41.997 | 58.546 | 12,906.8 | 23.58 | 95.99 | 65 | 52 | 199.7 |
| 39.00 | | 0.4375 | 41.786 | 58.250 | 12,711.5 | 23.45 | 95.51 | 65 | 52 | 198.7 |
| 40.00 | | 0.4375 | 41.575 | 57.953 | 12,518.3 | 23.32 | 95.03 | 65 | 52 | 197.7 |
| 40.57 | Bot - Section 2 | 0.4375 | 41.455 | 57.784 | 12,408.9 | 23.25 | 94.75 | 65 | 52 | 112.4 |
| 41.00 | | 0.4375 | 41.365 | 57.656 | 12,327.0 | 23.19 | 94.55 | 65 | 52 | 158.0 |
| 42.00 | | 0.4375 | 41.154 | 57.360 | 12,137.7 | 23.06 | 94.07 | 65 | 52 | 366.8 |
| 43.00 | | 0.4375 | 40.943 | 57.063 | 11,950.3 | 22.93 | 93.59 | 65 | 52 | 364.9 |
| 44.00 | | 0.4375 | 40.733 | 56.766 | 11,764.8 | 22.80 | 93.10 | 65 | 52 | 363.0 |
| 45.00 | | 0.4375 | 40.522 | 56.469 | 11,581.3 | 22.67 | 92.62 | 65 | 52 | 361.1 |
| 45.73 | Top - Section 1 | 0.3750 | 41.119 | 49.198 | 10,424.4 | 27.24 | 109.65 | 65 | 52 | 262.4 |
| 46.00 | | 0.3750 | 41.062 | 49.129 | 10,380.8 | 27.20 | 109.50 | 65 | 52 | 45.2 |
| 47.00 | | 0.3750 | 40.851 | 48.875 | 10,220.4 | 27.05 | 108.94 | 65 | 52 | 166.7 |
| 48.00 | | 0.3750 | 40.640 | 48.620 | 10,061.7 | 26.90 | 108.37 | 65 | 52 | 165.9 |
| 49.00 | | 0.3750 | 40.430 | 48.366 | 9,904.6 | 26.74 | 107.81 | 65 | 52 | 165.0 |
| 50.00 | | 0.3750 | 40.219 | 48.112 | 9,749.2 | 26.59 | 107.25 | 65 | 52 | 164.1 |
| 51.00 | | 0.3750 | 40.009 | 47.858 | 9,595.4 | 26.44 | 106.69 | 65 | 52 | 163.3 |
| 52.00 | | 0.3750 | 39.798 | 47.603 | 9,443.2 | 26.29 | 106.13 | 65 | 52 | 162.4 |
| 53.00 | | 0.3750 | 39.587 | 47.349 | 9,292.7 | 26.14 | 105.57 | 65 | 52 | 161.6 |
| 54.00 | | 0.3750 | 39.377 | 47.095 | 9,143.7 | 25.99 | 105.00 | 65 | 52 | 160.7 |
| 55.00 | | 0.3750 | 39.166 | 46.840 | 8,996.4 | 25.84 | 104.44 | 65 | 52 | 159.8 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

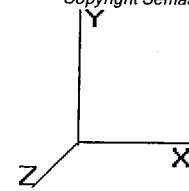
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Base Elev : 0.000 (ft)



| | | | | | | | | | | |
|-------|-----------------|--------|--------|--------|---------|-------|--------|----|----|-------|
| 56.00 | | 0.3750 | 38.955 | 46.586 | 8,850.7 | 25.69 | 103.88 | 65 | 52 | 159.0 |
| 57.00 | | 0.3750 | 38.745 | 46.332 | 8,706.5 | 25.54 | 103.32 | 65 | 52 | 158.1 |
| 58.00 | | 0.3750 | 38.534 | 46.077 | 8,563.9 | 25.39 | 102.76 | 65 | 52 | 157.2 |
| 59.00 | | 0.3750 | 38.324 | 45.823 | 8,422.9 | 25.24 | 102.20 | 65 | 52 | 156.4 |
| 60.00 | | 0.3750 | 38.113 | 45.569 | 8,283.4 | 25.09 | 101.63 | 65 | 52 | 155.5 |
| 61.00 | | 0.3750 | 37.902 | 45.314 | 8,145.5 | 24.94 | 101.07 | 65 | 52 | 154.6 |
| 62.00 | | 0.3750 | 37.692 | 45.060 | 8,009.1 | 24.79 | 100.51 | 65 | 52 | 153.8 |
| 63.00 | | 0.3750 | 37.481 | 44.806 | 7,874.3 | 24.64 | 99.95 | 65 | 52 | 152.9 |
| 64.00 | | 0.3750 | 37.271 | 44.551 | 7,741.0 | 24.49 | 99.39 | 65 | 52 | 152.0 |
| 65.00 | | 0.3750 | 37.060 | 44.297 | 7,609.2 | 24.34 | 98.83 | 65 | 52 | 151.2 |
| 66.00 | | 0.3750 | 36.849 | 44.043 | 7,478.8 | 24.19 | 98.26 | 65 | 52 | 150.3 |
| 67.00 | | 0.3750 | 36.639 | 43.788 | 7,350.0 | 24.04 | 97.70 | 65 | 52 | 149.4 |
| 68.00 | | 0.3750 | 36.428 | 43.534 | 7,222.7 | 23.89 | 97.14 | 65 | 52 | 148.6 |
| 69.00 | | 0.3750 | 36.217 | 43.280 | 7,096.9 | 23.73 | 96.58 | 65 | 52 | 147.7 |
| 70.00 | | 0.3750 | 36.007 | 43.025 | 6,972.5 | 23.58 | 96.02 | 65 | 52 | 146.8 |
| 71.00 | | 0.3750 | 35.796 | 42.771 | 6,849.6 | 23.43 | 95.46 | 65 | 52 | 146.0 |
| 72.00 | | 0.3750 | 35.586 | 42.517 | 6,728.1 | 23.28 | 94.89 | 65 | 52 | 145.1 |
| 73.00 | | 0.3750 | 35.375 | 42.263 | 6,608.1 | 23.13 | 94.33 | 65 | 52 | 144.2 |
| 74.00 | | 0.3750 | 35.164 | 42.008 | 6,489.5 | 22.98 | 93.77 | 65 | 52 | 143.4 |
| 75.00 | | 0.3750 | 34.954 | 41.754 | 6,372.4 | 22.83 | 93.21 | 65 | 52 | 142.5 |
| 76.00 | | 0.3750 | 34.743 | 41.500 | 6,256.6 | 22.68 | 92.65 | 65 | 52 | 141.6 |
| 77.00 | | 0.3750 | 34.533 | 41.245 | 6,142.3 | 22.53 | 92.09 | 65 | 52 | 140.8 |
| 78.00 | | 0.3750 | 34.322 | 40.991 | 6,029.4 | 22.38 | 91.53 | 65 | 52 | 139.9 |
| 79.00 | | 0.3750 | 34.111 | 40.737 | 5,917.9 | 22.23 | 90.96 | 65 | 52 | 139.1 |
| 80.00 | | 0.3750 | 33.901 | 40.482 | 5,807.7 | 22.08 | 90.40 | 65 | 52 | 138.2 |
| 81.00 | | 0.3750 | 33.690 | 40.228 | 5,699.0 | 21.93 | 89.84 | 65 | 52 | 137.3 |
| 81.11 | Bot - Section 3 | 0.3750 | 33.666 | 40.199 | 5,686.7 | 21.91 | 89.78 | 65 | 52 | 15.5 |
| 82.00 | | 0.3750 | 33.479 | 39.974 | 5,591.6 | 21.78 | 89.28 | 65 | 52 | 223.9 |
| 83.00 | | 0.3750 | 33.269 | 39.719 | 5,485.5 | 21.63 | 88.72 | 65 | 52 | 250.9 |
| 84.00 | | 0.3750 | 33.058 | 39.465 | 5,380.8 | 21.48 | 88.16 | 65 | 52 | 249.3 |
| 85.00 | | 0.3750 | 32.848 | 39.211 | 5,277.5 | 21.33 | 87.59 | 65 | 52 | 247.8 |
| 85.87 | Top - Section 2 | 0.3125 | 33.289 | 33.183 | 4,605.9 | 26.40 | 106.53 | 65 | 52 | 214.4 |
| 86.00 | | 0.3125 | 33.262 | 33.155 | 4,594.5 | 26.38 | 106.44 | 65 | 52 | 14.6 |
| 87.00 | | 0.3125 | 33.051 | 32.943 | 4,507.0 | 26.20 | 105.76 | 65 | 52 | 112.5 |
| 88.00 | | 0.3125 | 32.841 | 32.732 | 4,420.5 | 26.02 | 105.09 | 65 | 52 | 111.7 |
| 89.00 | | 0.3125 | 32.630 | 32.520 | 4,335.2 | 25.83 | 104.42 | 65 | 52 | 111.0 |
| 90.00 | | 0.3125 | 32.420 | 32.308 | 4,251.0 | 25.65 | 103.74 | 65 | 52 | 110.3 |
| 91.00 | | 0.3125 | 32.209 | 32.096 | 4,167.9 | 25.47 | 103.07 | 65 | 52 | 109.6 |
| 92.00 | | 0.3125 | 31.998 | 31.884 | 4,085.9 | 25.29 | 102.39 | 65 | 52 | 108.9 |
| 93.00 | | 0.3125 | 31.788 | 31.672 | 4,004.9 | 25.11 | 101.72 | 65 | 52 | 108.1 |
| 94.00 | | 0.3125 | 31.577 | 31.460 | 3,925.1 | 24.93 | 101.05 | 65 | 52 | 107.4 |
| 95.00 | | 0.3125 | 31.366 | 31.248 | 3,846.3 | 24.75 | 100.37 | 65 | 52 | 106.7 |
| 96.00 | | 0.3125 | 31.156 | 31.036 | 3,768.6 | 24.57 | 99.70 | 65 | 52 | 106.0 |
| 97.00 | | 0.3125 | 30.945 | 30.824 | 3,691.9 | 24.39 | 99.02 | 65 | 52 | 105.2 |
| 98.00 | | 0.3125 | 30.735 | 30.612 | 3,616.3 | 24.21 | 98.35 | 65 | 52 | 104.5 |
| 99.00 | | 0.3125 | 30.524 | 30.400 | 3,541.7 | 24.03 | 97.68 | 65 | 52 | 103.8 |
| 100.0 | | 0.3125 | 30.313 | 30.188 | 3,468.1 | 23.85 | 97.00 | 65 | 52 | 103.1 |
| 101.0 | | 0.3125 | 30.103 | 29.976 | 3,395.6 | 23.67 | 96.33 | 65 | 52 | 102.4 |
| 102.0 | | 0.3125 | 29.892 | 29.765 | 3,324.1 | 23.49 | 95.65 | 65 | 52 | 101.6 |
| 103.0 | | 0.3125 | 29.682 | 29.553 | 3,253.6 | 23.31 | 94.98 | 65 | 52 | 100.9 |
| 104.0 | | 0.3125 | 29.471 | 29.341 | 3,184.1 | 23.13 | 94.31 | 65 | 52 | 100.2 |
| 105.0 | | 0.3125 | 29.260 | 29.129 | 3,115.6 | 22.95 | 93.63 | 65 | 52 | 99.5 |
| 106.0 | | 0.3125 | 29.050 | 28.917 | 3,048.1 | 22.76 | 92.96 | 65 | 52 | 98.8 |
| 107.0 | | 0.3125 | 28.839 | 28.705 | 2,981.5 | 22.58 | 92.28 | 65 | 52 | 98.0 |
| 108.0 | | 0.3125 | 28.628 | 28.493 | 2,916.0 | 22.40 | 91.61 | 65 | 52 | 97.3 |
| 109.0 | | 0.3125 | 28.418 | 28.281 | 2,851.4 | 22.22 | 90.94 | 65 | 52 | 96.6 |
| 110.0 | | 0.3125 | 28.207 | 28.069 | 2,787.8 | 22.04 | 90.26 | 65 | 52 | 95.9 |
| 111.0 | | 0.3125 | 27.997 | 27.857 | 2,725.1 | 21.86 | 89.59 | 65 | 52 | 95.2 |
| 112.0 | | 0.3125 | 27.786 | 27.645 | 2,663.4 | 21.68 | 88.92 | 65 | 52 | 94.4 |
| 113.0 | | 0.3125 | 27.575 | 27.433 | 2,602.6 | 21.50 | 88.24 | 65 | 52 | 93.7 |
| 114.0 | | 0.3125 | 27.365 | 27.221 | 2,542.7 | 21.32 | 87.57 | 65 | 52 | 93.0 |
| 115.0 | | 0.3125 | 27.154 | 27.009 | 2,483.8 | 21.14 | 86.89 | 65 | 52 | 92.3 |
| 116.0 | | 0.3125 | 26.943 | 26.797 | 2,425.8 | 20.96 | 86.22 | 65 | 52 | 91.5 |
| 117.0 | | 0.3125 | 26.733 | 26.586 | 2,368.7 | 20.78 | 85.55 | 65 | 52 | 90.8 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

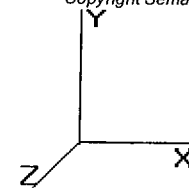
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



| | | | | | | | | | | |
|-------|-----------------|--------|--------|--------|---------|-------|--------|----|----|-------|
| 118.0 | | 0.3125 | 26.522 | 26.374 | 2,312.5 | 20.60 | 84.87 | 65 | 52 | 90.1 |
| 119.0 | | 0.3125 | 26.312 | 26.162 | 2,257.2 | 20.42 | 84.20 | 65 | 52 | 89.4 |
| 120.0 | | 0.3125 | 26.101 | 25.950 | 2,202.8 | 20.24 | 83.52 | 65 | 52 | 88.7 |
| 121.0 | | 0.3125 | 25.890 | 25.738 | 2,149.3 | 20.06 | 82.85 | 65 | 52 | 87.9 |
| 122.0 | | 0.3125 | 25.680 | 25.526 | 2,096.6 | 19.88 | 82.18 | 65 | 52 | 87.2 |
| 122.2 | Bot - Section 4 | 0.3125 | 25.633 | 25.479 | 2,085.1 | 19.84 | 82.03 | 65 | 52 | 19.1 |
| 123.0 | | 0.3125 | 25.469 | 25.314 | 2,044.8 | 19.69 | 81.50 | 65 | 52 | 108.6 |
| 124.0 | | 0.3125 | 25.259 | 25.102 | 1,993.9 | 19.51 | 80.83 | 65 | 52 | 138.3 |
| 125.0 | | 0.3125 | 25.048 | 24.890 | 1,943.8 | 19.33 | 80.15 | 65 | 52 | 137.1 |
| 126.0 | | 0.3125 | 24.837 | 24.678 | 1,894.6 | 19.15 | 79.48 | 65 | 52 | 136.0 |
| 126.4 | Top - Section 3 | 0.1875 | 25.127 | 15.057 | 1,195.4 | 33.77 | 134.01 | 65 | 49 | 54.5 |
| 127.0 | | 0.1875 | 25.002 | 14.982 | 1,177.5 | 33.59 | 133.34 | 65 | 49 | 30.5 |
| 128.0 | | 0.1875 | 24.791 | 14.854 | 1,147.7 | 33.28 | 132.22 | 65 | 49 | 50.8 |
| 129.0 | | 0.1875 | 24.580 | 14.727 | 1,118.5 | 32.98 | 131.10 | 65 | 50 | 50.3 |
| 130.0 | | 0.1875 | 24.370 | 14.600 | 1,089.8 | 32.68 | 129.97 | 65 | 50 | 49.9 |
| 131.0 | | 0.1875 | 24.159 | 14.473 | 1,061.6 | 32.38 | 128.85 | 65 | 50 | 49.5 |
| 132.0 | | 0.1875 | 23.949 | 14.346 | 1,033.8 | 32.08 | 127.73 | 65 | 50 | 49.0 |
| 133.0 | | 0.1875 | 23.738 | 14.219 | 1,006.6 | 31.78 | 126.60 | 65 | 50 | 48.6 |
| 134.0 | | 0.1875 | 23.527 | 14.091 | 979.8 | 31.48 | 125.48 | 65 | 51 | 48.2 |
| 135.0 | | 0.1875 | 23.317 | 13.964 | 953.5 | 31.18 | 124.36 | 65 | 51 | 47.7 |
| 136.0 | | 0.1875 | 23.106 | 13.837 | 927.7 | 30.88 | 123.23 | 65 | 51 | 47.3 |
| 137.0 | | 0.1875 | 22.896 | 13.710 | 902.4 | 30.58 | 122.11 | 65 | 51 | 46.9 |
| 138.0 | | 0.1875 | 22.685 | 13.583 | 877.5 | 30.27 | 120.99 | 65 | 52 | 46.4 |
| 139.0 | | 0.1875 | 22.474 | 13.456 | 853.1 | 29.97 | 119.86 | 65 | 52 | 46.0 |
| 140.0 | | 0.1875 | 22.264 | 13.329 | 829.1 | 29.67 | 118.74 | 65 | 52 | 45.6 |
| 141.0 | | 0.1875 | 22.053 | 13.201 | 805.6 | 29.37 | 117.62 | 65 | 52 | 45.1 |
| 142.0 | | 0.1875 | 21.842 | 13.074 | 782.6 | 29.07 | 116.49 | 65 | 52 | 44.7 |
| 143.0 | | 0.1875 | 21.632 | 12.947 | 759.9 | 28.77 | 115.37 | 65 | 52 | 44.3 |
| 144.0 | | 0.1875 | 21.421 | 12.820 | 737.8 | 28.47 | 114.25 | 65 | 52 | 43.8 |
| 145.0 | | 0.1875 | 21.211 | 12.693 | 716.0 | 28.17 | 113.12 | 65 | 52 | 43.4 |
| 146.0 | Top - Section 4 | 0.1875 | 21.000 | 12.566 | 694.7 | 27.87 | 112.00 | 65 | 52 | 43.0 |
| 146.0 | Bot - Section 5 | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | |
| 147.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 148.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 149.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 150.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 151.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 152.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 153.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 154.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |
| 155.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42 | 34 | 95.9 |

23,238.7

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

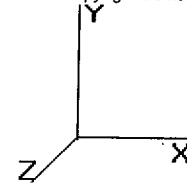
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Base Elev : 0.000 (ft)



| | | |
|-----------------------------|----------------------------|---------------|
| Load Case: No Ice | 85.00 mph Wind with No Ice | 33 Iterations |
| Gust Response Factor : 1.69 | | |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

Shaft Segment Forces

| Seg Top Elev (ft) | Description | Kz | az (psf) | azGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-------------------|-----------------|------|-------------|--------------|------------|------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 0.00 | 1.00 18.496 | 31.25 354.16 | 1.030 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 |
| 1.00 | | 0.00 | 1.00 18.496 | 31.25 352.67 | 1.030 | 0.00 | 1.00 | 4.158 | 4.28 | 133.9 | 0.0 | 237.1 | 237.1 |
| 2.00 | | 0.00 | 1.00 18.496 | 31.25 351.18 | 1.030 | 0.00 | 1.00 | 4.140 | 4.26 | 133.3 | 0.0 | 236.1 | 236.1 |
| 3.00 | | 0.00 | 1.00 18.496 | 31.25 349.69 | 1.030 | 0.00 | 1.00 | 4.123 | 4.25 | 132.7 | 0.0 | 235.1 | 235.1 |
| 4.00 | | 0.00 | 1.00 18.496 | 31.25 348.19 | 1.030 | 0.00 | 1.00 | 4.105 | 4.23 | 132.2 | 0.0 | 234.1 | 234.1 |
| 5.00 | | 0.00 | 1.00 18.496 | 31.25 346.70 | 1.030 | 0.00 | 1.00 | 4.088 | 4.21 | 131.6 | 0.0 | 233.0 | 233.0 |
| 6.00 | | 0.00 | 1.00 18.496 | 31.25 345.21 | 1.030 | 0.00 | 1.00 | 4.070 | 4.19 | 131.0 | 0.0 | 232.0 | 232.0 |
| 7.00 | | 0.00 | 1.00 18.496 | 31.25 343.72 | 1.030 | 0.00 | 1.00 | 4.053 | 4.17 | 130.5 | 0.0 | 231.0 | 231.0 |
| 8.00 | | 0.00 | 1.00 18.496 | 31.25 342.23 | 1.030 | 0.00 | 1.00 | 4.035 | 4.16 | 129.9 | 0.0 | 230.0 | 230.0 |
| 9.00 | | 0.00 | 1.00 18.496 | 31.25 340.74 | 1.030 | 0.00 | 1.00 | 4.017 | 4.14 | 129.3 | 0.0 | 229.0 | 229.0 |
| 10.00 | | 0.00 | 1.00 18.496 | 31.25 339.24 | 1.030 | 0.00 | 1.00 | 4.000 | 4.12 | 128.8 | 0.0 | 228.0 | 228.0 |
| 11.00 | | 0.00 | 1.00 18.496 | 31.25 337.75 | 1.030 | 0.00 | 1.00 | 3.982 | 4.10 | 128.2 | 0.0 | 227.0 | 227.0 |
| 12.00 | | 0.00 | 1.00 18.496 | 31.25 336.26 | 1.030 | 0.00 | 1.00 | 3.965 | 4.08 | 127.7 | 0.0 | 226.0 | 226.0 |
| 13.00 | | 0.00 | 1.00 18.496 | 31.25 334.77 | 1.030 | 0.00 | 1.00 | 3.947 | 4.07 | 127.1 | 0.0 | 225.0 | 225.0 |
| 14.00 | | 0.00 | 1.00 18.496 | 31.25 333.28 | 1.030 | 0.00 | 1.00 | 3.930 | 4.05 | 126.5 | 0.0 | 224.0 | 224.0 |
| 15.00 | Annertunance(s) | 0.00 | 1.00 18.496 | 31.25 331.78 | 1.030 | 0.00 | 1.00 | 3.912 | 4.03 | 126.0 | 0.0 | 222.9 | 222.9 |
| 16.00 | | 0.00 | 1.00 18.496 | 31.25 330.29 | 1.030 | 0.00 | 1.00 | 3.895 | 4.01 | 125.4 | 0.0 | 221.9 | 221.9 |
| 17.00 | | 0.00 | 1.00 18.496 | 31.25 328.80 | 1.030 | 0.00 | 1.00 | 3.877 | 3.99 | 124.8 | 0.0 | 220.9 | 220.9 |
| 18.00 | | 0.00 | 1.00 18.496 | 31.25 327.31 | 1.030 | 0.00 | 1.00 | 3.860 | 3.98 | 124.3 | 0.0 | 219.9 | 219.9 |
| 19.00 | | 0.00 | 1.00 18.496 | 31.25 325.82 | 1.030 | 0.00 | 1.00 | 3.842 | 3.96 | 123.7 | 0.0 | 218.9 | 218.9 |
| 20.00 | | 0.00 | 1.00 18.496 | 31.25 324.32 | 1.030 | 0.00 | 1.00 | 3.824 | 3.94 | 123.1 | 0.0 | 217.9 | 217.9 |
| 21.00 | | 0.00 | 1.00 18.496 | 31.25 322.83 | 1.030 | 0.00 | 1.00 | 3.807 | 3.92 | 122.6 | 0.0 | 216.9 | 216.9 |
| 22.00 | | 0.00 | 1.00 18.496 | 31.25 321.34 | 1.030 | 0.00 | 1.00 | 3.789 | 3.90 | 122.0 | 0.0 | 215.9 | 215.9 |
| 23.00 | | 0.00 | 1.00 18.496 | 31.25 319.85 | 1.030 | 0.00 | 1.00 | 3.772 | 3.88 | 121.4 | 0.0 | 214.9 | 214.9 |
| 24.00 | | 0.00 | 1.00 18.496 | 31.25 318.36 | 1.030 | 0.00 | 1.00 | 3.754 | 3.87 | 120.9 | 0.0 | 213.9 | 213.9 |
| 25.00 | | 0.00 | 1.00 18.496 | 31.25 316.87 | 1.030 | 0.00 | 1.00 | 3.737 | 3.85 | 120.3 | 0.0 | 212.9 | 212.9 |
| 26.00 | | 0.00 | 1.00 18.496 | 31.25 315.37 | 1.030 | 0.00 | 1.00 | 3.719 | 3.83 | 119.7 | 0.0 | 211.8 | 211.8 |
| 27.00 | | 0.00 | 1.00 18.496 | 31.25 313.88 | 1.030 | 0.00 | 1.00 | 3.702 | 3.81 | 119.2 | 0.0 | 210.8 | 210.8 |
| 28.00 | | 0.00 | 1.00 18.496 | 31.25 312.39 | 1.030 | 0.00 | 1.00 | 3.684 | 3.79 | 118.6 | 0.0 | 209.8 | 209.8 |
| 29.00 | | 0.00 | 1.00 18.496 | 31.25 310.90 | 1.030 | 0.00 | 1.00 | 3.666 | 3.78 | 118.0 | 0.0 | 208.8 | 208.8 |
| 30.00 | | 0.00 | 1.00 18.496 | 31.25 309.41 | 1.030 | 0.00 | 1.00 | 3.649 | 3.76 | 117.5 | 0.0 | 207.8 | 207.8 |
| 31.00 | | 0.00 | 1.00 18.496 | 31.25 307.91 | 1.030 | 0.00 | 1.00 | 3.631 | 3.74 | 116.9 | 0.0 | 206.8 | 206.8 |
| 32.00 | | 0.00 | 1.00 18.496 | 31.25 306.42 | 1.030 | 0.00 | 1.00 | 3.614 | 3.72 | 116.3 | 0.0 | 205.8 | 205.8 |
| 33.00 | | 0.00 | 1.00 18.496 | 31.25 304.93 | 1.030 | 0.00 | 1.00 | 3.596 | 3.70 | 115.8 | 0.0 | 204.8 | 204.8 |
| 34.00 | | 0.00 | 1.00 18.654 | 31.52 304.74 | 1.030 | 0.00 | 1.00 | 3.579 | 3.69 | 116.2 | 0.0 | 203.8 | 203.8 |
| 35.00 | | 0.00 | 1.01 18.810 | 31.78 304.50 | 1.030 | 0.00 | 1.00 | 3.561 | 3.67 | 116.6 | 0.0 | 202.8 | 202.8 |
| 36.00 | | 0.00 | 1.02 18.962 | 32.04 304.21 | 1.030 | 0.00 | 1.00 | 3.544 | 3.65 | 117.0 | 0.0 | 201.7 | 201.7 |
| 37.00 | | 0.00 | 1.03 19.111 | 32.29 303.89 | 1.030 | 0.00 | 1.00 | 3.526 | 3.63 | 117.3 | 0.0 | 200.7 | 200.7 |
| 38.00 | | 0.00 | 1.04 19.257 | 32.54 303.53 | 1.030 | 0.00 | 1.00 | 3.508 | 3.61 | 117.6 | 0.0 | 199.7 | 199.7 |
| 39.00 | | 0.00 | 1.04 19.400 | 32.78 303.13 | 1.030 | 0.00 | 1.00 | 3.491 | 3.60 | 117.9 | 0.0 | 198.7 | 198.7 |
| 40.00 | | 0.00 | 1.05 19.541 | 33.02 302.69 | 1.030 | 0.00 | 1.00 | 3.473 | 3.58 | 118.1 | 0.0 | 197.7 | 197.7 |
| 40.57 | Bot - Section 2 | 0.00 | 1.06 19.620 | 33.15 302.43 | 1.030 | 0.00 | 0.57 | 1.975 | 2.03 | 67.4 | 0.0 | 112.4 | 112.4 |
| 41.00 | | 0.00 | 1.06 19.679 | 33.25 302.22 | 1.030 | 0.00 | 0.43 | 1.508 | 1.55 | 51.7 | 0.0 | 158.0 | 158.0 |
| 42.00 | | 0.00 | 1.07 19.815 | 33.48 301.72 | 1.030 | 0.00 | 1.00 | 3.501 | 3.61 | 120.8 | 0.0 | 366.8 | 366.8 |
| 43.00 | | 0.00 | 1.07 19.949 | 33.71 301.19 | 1.030 | 0.00 | 1.00 | 3.483 | 3.59 | 121.0 | 0.0 | 364.9 | 364.9 |
| 44.00 | | 0.00 | 1.08 20.081 | 33.93 300.62 | 1.030 | 0.00 | 1.00 | 3.466 | 3.57 | 121.1 | 0.0 | 363.0 | 363.0 |
| 45.00 | | 0.00 | 1.09 20.210 | 34.15 300.03 | 1.030 | 0.00 | 1.00 | 3.448 | 3.55 | 121.3 | 0.0 | 361.1 | 361.1 |
| 45.73 | Top - Section 1 | 0.00 | 1.09 20.303 | 34.31 299.58 | 1.030 | 0.00 | 0.73 | 2.506 | 2.58 | 88.6 | 0.0 | 262.4 | 262.4 |
| 46.00 | | 0.00 | 1.10 20.337 | 34.37 304.98 | 1.030 | 0.00 | 0.27 | 0.925 | 0.95 | 32.7 | 0.0 | 45.2 | 45.2 |
| 47.00 | | 0.00 | 1.10 20.463 | 34.58 304.35 | 1.030 | 0.00 | 1.00 | 3.413 | 3.52 | 121.6 | 0.0 | 166.7 | 166.7 |
| 48.00 | | 0.00 | 1.11 20.586 | 34.79 303.69 | 1.030 | 0.00 | 1.00 | 3.395 | 3.50 | 121.7 | 0.0 | 165.9 | 165.9 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

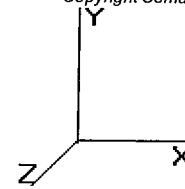
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



| | | |
|----------------------------|----------------------------|---------------|
| Load Case: No Ice | 85.00 mph Wind with No Ice | 33 Iterations |
| Gust Response Factor: 1.69 | | |
| Dead Load Factor: 1.00 | | |
| Wind Load Factor: 1.00 | | |

Discrete Appurtenance Segment Forces

| Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | CaAa Factor | Total CaAa (sf) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) | Dead Load (lb) |
|-----------|----------------------|-----|----------|------------|-------------|-----------------|----------------|---------------|--------------|---------------|---------------|----------------|
| 15.00 | Dish Standard | 1 | 18.496 | 31.258 | 1.00 | 20.91 | 0.000 | 0.000 | 653.61 | 0.00 | 0.00 | 188.00 |
| 55.00 | 2" x 4" GPS | 1 | 21.421 | 36.201 | 1.00 | 0.04 | 0.000 | 0.167 | 1.45 | 0.00 | 0.24 | 5.00 |
| 55.00 | Stand Off | 1 | 21.402 | 36.170 | 1.00 | 2.00 | 0.000 | 0.000 | 72.34 | 0.00 | 0.00 | 50.00 |
| 61.00 | GPS | 2 | 22.097 | 37.343 | 1.00 | 2.00 | 0.000 | 0.500 | 74.69 | 0.00 | 37.34 | 20.00 |
| 61.00 | Stand Off | 2 | 22.045 | 37.256 | 1.00 | 4.00 | 0.000 | 0.000 | 149.02 | 0.00 | 0.00 | 100.00 |
| 81.00 | GPS | 1 | 23.948 | 40.471 | 1.00 | 1.00 | 0.000 | 0.500 | 40.47 | 0.00 | 20.24 | 10.00 |
| 81.00 | Stand Off | 1 | 23.906 | 40.400 | 1.00 | 2.00 | 0.000 | 0.000 | 80.80 | 0.00 | 0.00 | 50.00 |
| 105.0 | RFS APXV18- | 3 | 25.745 | 43.510 | 0.75 | 11.30 | 0.000 | 0.000 | 491.44 | 0.00 | 0.00 | 66.00 |
| 105.0 | Flush Mounts | 1 | 25.745 | 43.510 | 1.00 | 3.50 | 0.000 | 0.000 | 152.28 | 0.00 | 0.00 | 200.00 |
| 115.0 | 72" x 12" Panel | 3 | 26.423 | 44.655 | 0.67 | 16.88 | 0.000 | 0.000 | 753.96 | 0.00 | 0.00 | 120.00 |
| 115.0 | 48" x 12" Panel | 9 | 26.423 | 44.655 | 0.67 | 33.77 | 0.000 | 0.000 | 1,507.92 | 0.00 | 0.00 | 270.00 |
| 115.0 | Platform w/ Handrail | 1 | 26.423 | 44.655 | 1.00 | 27.00 | 0.000 | 0.000 | 1,205.70 | 0.00 | 0.00 | 2,500.00 |
| 130.0 | Decibel DB980H65T2E- | 5 | 27.365 | 46.247 | 0.73 | 13.87 | 0.000 | 0.000 | 641.45 | 0.00 | 0.00 | 42.50 |
| 130.0 | Decibel DB980H90A- | 4 | 27.365 | 46.247 | 0.73 | 11.10 | 0.000 | 0.000 | 513.16 | 0.00 | 0.00 | 34.00 |
| 130.0 | Flat Platform w/ Han | 1 | 27.365 | 46.247 | 1.00 | 33.00 | 0.000 | 0.000 | 1,526.16 | 0.00 | 0.00 | 2,000.00 |
| 142.0 | Andrew DB948F85E-M | 6 | 28.064 | 47.429 | 0.75 | 14.71 | 0.000 | 0.000 | 697.92 | 0.00 | 0.00 | 51.00 |
| 142.0 | Powerwave P65-15- | 3 | 28.064 | 47.429 | 0.79 | 13.27 | 0.000 | 0.000 | 629.48 | 0.00 | 0.00 | 63.00 |
| 142.0 | Swedcom ALP 9212-N | 6 | 28.064 | 47.429 | 1.00 | 27.12 | 0.000 | 0.000 | 1,286.27 | 0.00 | 0.00 | 160.20 |
| 142.0 | Platform w/ Handrail | 1 | 28.064 | 47.429 | 1.00 | 28.00 | 0.000 | 0.000 | 1,328.01 | 0.00 | 0.00 | 2,500.00 |
| 150.0 | 7' Omni | 1 | 28.696 | 48.496 | 1.00 | 2.10 | 0.000 | 3.500 | 101.84 | 0.00 | 356.45 | 15.00 |
| 150.0 | Powerwave 7770.00 | 3 | 28.507 | 48.177 | 0.74 | 13.05 | 0.000 | 0.000 | 628.89 | 0.00 | 0.00 | 105.00 |
| 150.0 | Platform w/ Handrail | 1 | 28.507 | 48.177 | 1.00 | 27.00 | 0.000 | 0.000 | 1,300.79 | 0.00 | 0.00 | 2,500.00 |
| 150.0 | CSS DUO4-8670 | 6 | 28.507 | 48.177 | 0.81 | 31.74 | 0.000 | 0.000 | 1,528.95 | 0.00 | 0.00 | 399.00 |
| 150.0 | ADC DD800 | 6 | 28.507 | 48.177 | 0.50 | 3.75 | 0.000 | 0.000 | 180.67 | 0.00 | 0.00 | 83.40 |
| 155.0 | Canister | 1 | 29.208 | 49.361 | 1.00 | 12.00 | 0.000 | 8.300 | 592.33 | 0.00 | 4,916.37 | 500.00 |
| | | | | | | | | | 16,139.61 | | | 12,032.10 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

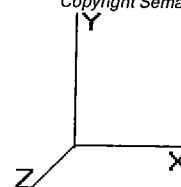
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Linear Appurtenance Segment Forces

| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Weight (lb/ft) | CaAa (sf/ft) | qz (psf) | FX (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|----------------|--------------|----------|---------|----------------|
| 1.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 1.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 2.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 2.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 3.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 3.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 4.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 4.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 5.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 5.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 6.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 6.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 7.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 7.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 8.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 8.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 9.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

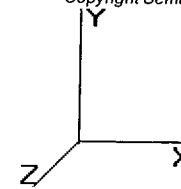
Code: TIA/EIA-222 Rev F

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Page: 11

Base Elev : 0.000 (ft)



Load Case: No Ice

85.00 mph Wind with No Ice

33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 9.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 10.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 10.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 11.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 11.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 12.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 12.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 13.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 13.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 14.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 14.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 15.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 15.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 16.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 17.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 18.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 19.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

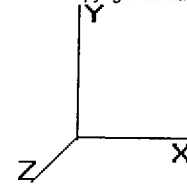
Code: TIA/EIA-222 Rev F

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7/1/2010 1:54:07 PM

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 20.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 2.46 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.30 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 21.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 22.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 23.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 24.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 25.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 26.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 27.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 28.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 29.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 30.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 0.15 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 0.00 | 2.46 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.15 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 1.88 | 0.30 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

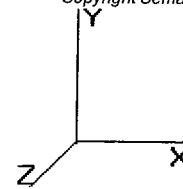
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



| | | |
|-----------------------------|----------------------------|---------------|
| Load Case: No Ice | 85.00 mph Wind with No Ice | 33 Iterations |
| Gust Response Factor : 1.69 | | |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 31.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 32.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 33.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.496 | 0.00 | 2.46 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.496 | 1.88 | 0.15 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.496 | 1.88 | 0.30 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.496 | 0.00 | 0.15 |
| 34.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.654 | 0.00 | 2.46 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.654 | 1.89 | 0.15 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.654 | 1.89 | 0.30 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.654 | 0.00 | 0.15 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.654 | 0.00 | 0.15 |
| 35.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.810 | 0.00 | 2.46 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.810 | 1.91 | 0.15 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.810 | 1.91 | 0.30 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.810 | 0.00 | 0.15 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.810 | 0.00 | 0.15 |
| 36.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 18.962 | 0.00 | 2.46 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 18.962 | 1.92 | 0.15 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 18.962 | 1.92 | 0.30 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.962 | 0.00 | 0.15 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 18.962 | 0.00 | 0.15 |
| 37.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 19.111 | 0.00 | 2.46 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 19.111 | 1.94 | 0.15 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 19.111 | 1.94 | 0.30 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.111 | 0.00 | 0.15 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.111 | 0.00 | 0.15 |
| 38.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 19.257 | 0.00 | 2.46 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 19.257 | 1.95 | 0.15 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 19.257 | 1.95 | 0.30 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.257 | 0.00 | 0.15 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.257 | 0.00 | 0.15 |
| 39.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 19.400 | 0.00 | 2.46 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 19.400 | 1.97 | 0.15 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 19.400 | 1.97 | 0.30 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.400 | 0.00 | 0.15 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.400 | 0.00 | 0.15 |
| 40.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 19.541 | 0.00 | 2.46 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 19.541 | 1.98 | 0.15 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 19.541 | 1.98 | 0.30 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.541 | 0.00 | 0.15 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.541 | 0.00 | 0.15 |
| 40.57 | (3) 1 5/8" Coax | Yes | 0.57 | 2.46 | 0.00 | 19.620 | 0.00 | 1.40 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.15 | 0.06 | 19.620 | 1.14 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.30 | 0.06 | 19.620 | 1.14 | 0.17 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.15 | 0.00 | 19.620 | 0.00 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.15 | 0.00 | 19.620 | 0.00 | 0.09 |
| 41.00 | (3) 1 5/8" Coax | Yes | 0.43 | 2.46 | 0.00 | 19.679 | 0.00 | 1.06 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.15 | 0.06 | 19.679 | 0.86 | 0.06 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

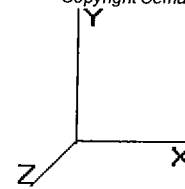
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Page: 14

Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.30 | 0.06 | 19.679 | 0.86 | 0.13 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.15 | 0.00 | 19.679 | 0.00 | 0.06 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.15 | 0.00 | 19.679 | 0.00 | 0.06 |
| 42.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 19.815 | 0.00 | 2.46 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 19.815 | 2.01 | 0.15 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 19.815 | 2.01 | 0.30 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.815 | 0.00 | 0.15 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.815 | 0.00 | 0.15 |
| 43.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 19.949 | 0.00 | 2.46 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 19.949 | 2.02 | 0.15 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 19.949 | 2.02 | 0.30 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.949 | 0.00 | 0.15 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 19.949 | 0.00 | 0.15 |
| 44.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.081 | 0.00 | 2.46 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.081 | 2.04 | 0.15 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.081 | 2.04 | 0.30 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.081 | 0.00 | 0.15 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.081 | 0.00 | 0.15 |
| 45.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.210 | 0.00 | 2.46 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.210 | 2.05 | 0.15 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.210 | 2.05 | 0.30 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.210 | 0.00 | 0.15 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.210 | 0.00 | 0.15 |
| 45.73 | (3) 1 5/8" Coax | Yes | 0.73 | 2.46 | 0.00 | 20.303 | 0.00 | 1.80 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.15 | 0.06 | 20.303 | 1.50 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.30 | 0.06 | 20.303 | 1.50 | 0.22 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.15 | 0.00 | 20.303 | 0.00 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.15 | 0.00 | 20.303 | 0.00 | 0.11 |
| 46.00 | (3) 1 5/8" Coax | Yes | 0.27 | 2.46 | 0.00 | 20.337 | 0.00 | 0.66 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.15 | 0.06 | 20.337 | 0.56 | 0.04 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.30 | 0.06 | 20.337 | 0.56 | 0.08 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.15 | 0.00 | 20.337 | 0.00 | 0.04 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.15 | 0.00 | 20.337 | 0.00 | 0.04 |
| 47.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.463 | 0.00 | 2.46 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.463 | 2.07 | 0.15 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.463 | 2.07 | 0.30 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.463 | 0.00 | 0.15 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.463 | 0.00 | 0.15 |
| 48.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.586 | 0.00 | 2.46 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.586 | 2.09 | 0.15 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.586 | 2.09 | 0.30 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.586 | 0.00 | 0.15 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.586 | 0.00 | 0.15 |
| 49.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.708 | 0.00 | 2.46 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.708 | 2.10 | 0.15 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.708 | 2.10 | 0.30 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.708 | 0.00 | 0.15 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.708 | 0.00 | 0.15 |
| 50.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.827 | 0.00 | 2.46 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.827 | 2.11 | 0.15 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.827 | 2.11 | 0.30 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.827 | 0.00 | 0.15 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.827 | 0.00 | 0.15 |
| 51.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 20.946 | 0.00 | 2.46 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 20.946 | 2.12 | 0.15 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 20.946 | 2.12 | 0.30 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.946 | 0.00 | 0.15 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

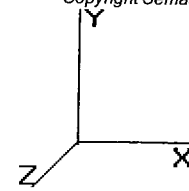
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 20.946 | 0.00 | 0.15 |
| 52.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.062 | 0.00 | 2.46 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.062 | 2.14 | 0.15 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.062 | 2.14 | 0.30 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.062 | 0.00 | 0.15 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.062 | 0.00 | 0.15 |
| 53.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.177 | 0.00 | 2.46 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.177 | 2.15 | 0.15 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.177 | 2.15 | 0.30 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.177 | 0.00 | 0.15 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.177 | 0.00 | 0.15 |
| 54.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.291 | 0.00 | 2.46 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.291 | 2.16 | 0.15 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.291 | 2.16 | 0.30 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.291 | 0.00 | 0.15 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.291 | 0.00 | 0.15 |
| 55.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.402 | 0.00 | 2.46 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.402 | 2.17 | 0.15 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.402 | 2.17 | 0.30 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.402 | 0.00 | 0.15 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.402 | 0.00 | 0.15 |
| 56.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.513 | 0.00 | 2.46 |
| 56.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.513 | 2.18 | 0.15 |
| 56.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.513 | 2.18 | 0.30 |
| 56.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.513 | 0.00 | 0.15 |
| 57.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.622 | 0.00 | 2.46 |
| 57.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.622 | 2.19 | 0.15 |
| 57.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.622 | 2.19 | 0.30 |
| 57.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.622 | 0.00 | 0.15 |
| 58.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.730 | 0.00 | 2.46 |
| 58.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.730 | 2.20 | 0.15 |
| 58.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.730 | 2.20 | 0.30 |
| 58.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.730 | 0.00 | 0.15 |
| 59.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.836 | 0.00 | 2.46 |
| 59.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.836 | 2.21 | 0.15 |
| 59.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.836 | 2.21 | 0.30 |
| 59.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.836 | 0.00 | 0.15 |
| 60.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 21.941 | 0.00 | 2.46 |
| 60.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 21.941 | 2.22 | 0.15 |
| 60.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 21.941 | 2.22 | 0.30 |
| 60.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 21.941 | 0.00 | 0.15 |
| 61.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.045 | 0.00 | 2.46 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.045 | 2.24 | 0.15 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 22.045 | 2.24 | 0.30 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 22.045 | 0.00 | 0.15 |
| 62.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.148 | 0.00 | 2.46 |
| 62.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.148 | 2.25 | 0.15 |
| 63.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.249 | 0.00 | 2.46 |
| 63.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.249 | 2.26 | 0.15 |
| 64.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.350 | 0.00 | 2.46 |
| 64.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.350 | 2.27 | 0.15 |
| 65.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.449 | 0.00 | 2.46 |
| 65.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.449 | 2.28 | 0.15 |
| 66.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.547 | 0.00 | 2.46 |
| 66.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.547 | 2.29 | 0.15 |
| 67.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.644 | 0.00 | 2.46 |
| 67.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.644 | 2.30 | 0.15 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

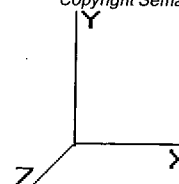
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

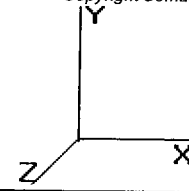
| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 68.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.740 | 0.00 | 2.46 |
| 68.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.740 | 2.31 | 0.15 |
| 69.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.835 | 0.00 | 2.46 |
| 69.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.835 | 2.32 | 0.15 |
| 70.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 22.929 | 0.00 | 2.46 |
| 70.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 22.929 | 2.33 | 0.15 |
| 71.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.022 | 0.00 | 2.46 |
| 71.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.022 | 2.33 | 0.15 |
| 72.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.114 | 0.00 | 2.46 |
| 72.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.114 | 2.34 | 0.15 |
| 73.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.206 | 0.00 | 2.46 |
| 73.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.206 | 2.35 | 0.15 |
| 74.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.296 | 0.00 | 2.46 |
| 74.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.296 | 2.36 | 0.15 |
| 75.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.386 | 0.00 | 2.46 |
| 75.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.386 | 2.37 | 0.15 |
| 76.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.474 | 0.00 | 2.46 |
| 76.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.474 | 2.38 | 0.15 |
| 77.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.562 | 0.00 | 2.46 |
| 77.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.562 | 2.39 | 0.15 |
| 78.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.649 | 0.00 | 2.46 |
| 78.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.649 | 2.40 | 0.15 |
| 79.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.735 | 0.00 | 2.46 |
| 79.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.735 | 2.41 | 0.15 |
| 80.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.821 | 0.00 | 2.46 |
| 80.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.821 | 2.42 | 0.15 |
| 81.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 23.906 | 0.00 | 2.46 |
| 81.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 23.906 | 2.42 | 0.15 |
| 81.11 | (3) 1 5/8" Coax | Yes | 0.11 | 2.46 | 0.00 | 23.915 | 0.00 | 0.28 |
| 82.00 | (3) 1 5/8" Coax | Yes | 0.89 | 2.46 | 0.00 | 23.989 | 0.00 | 2.18 |
| 83.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.073 | 0.00 | 2.46 |
| 84.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.155 | 0.00 | 2.46 |
| 85.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.237 | 0.00 | 2.46 |
| 85.87 | (3) 1 5/8" Coax | Yes | 0.87 | 2.46 | 0.00 | 24.308 | 0.00 | 2.14 |
| 86.00 | (3) 1 5/8" Coax | Yes | 0.13 | 2.46 | 0.00 | 24.318 | 0.00 | 0.32 |
| 87.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.399 | 0.00 | 2.46 |
| 88.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.478 | 0.00 | 2.46 |
| 89.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.558 | 0.00 | 2.46 |
| 90.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.636 | 0.00 | 2.46 |
| 91.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.714 | 0.00 | 2.46 |
| 92.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.791 | 0.00 | 2.46 |
| 93.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.868 | 0.00 | 2.46 |
| 94.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 24.944 | 0.00 | 2.46 |
| 95.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.020 | 0.00 | 2.46 |
| 96.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.095 | 0.00 | 2.46 |
| 97.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.169 | 0.00 | 2.46 |
| 98.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.243 | 0.00 | 2.46 |
| 99.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.316 | 0.00 | 2.46 |
| 100.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.389 | 0.00 | 2.46 |
| 101.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.461 | 0.00 | 2.46 |
| 102.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.533 | 0.00 | 2.46 |
| 103.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.604 | 0.00 | 2.46 |
| 104.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.675 | 0.00 | 2.46 |
| 105.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.745 | 0.00 | 2.46 |
| 106.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.815 | 0.00 | 2.46 |
| 107.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.885 | 0.00 | 2.46 |
| 108.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 25.953 | 0.00 | 2.46 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|----------------|-----------------|-----|------|------|------|--------|--------|--------|
| 109.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.022 | 0.00 | 2.46 |
| 110.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.090 | 0.00 | 2.46 |
| 111.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.157 | 0.00 | 2.46 |
| 112.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.225 | 0.00 | 2.46 |
| 113.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.291 | 0.00 | 2.46 |
| 114.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.357 | 0.00 | 2.46 |
| 115.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.423 | 0.00 | 2.46 |
| 116.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.489 | 0.00 | 2.46 |
| 117.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.554 | 0.00 | 2.46 |
| 118.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.618 | 0.00 | 2.46 |
| 119.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.683 | 0.00 | 2.46 |
| 120.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.747 | 0.00 | 2.46 |
| 121.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.810 | 0.00 | 2.46 |
| 122.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.873 | 0.00 | 2.46 |
| 122.2 | (3) 1 5/8" Coax | Yes | 0.22 | 2.46 | 0.00 | 26.887 | 0.00 | 2.46 |
| 123.0 | (3) 1 5/8" Coax | Yes | 0.78 | 2.46 | 0.00 | 26.936 | 0.00 | 0.54 |
| 124.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 26.998 | 0.00 | 1.92 |
| 125.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.060 | 0.00 | 2.46 |
| 126.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.122 | 0.00 | 2.46 |
| 126.4 | (3) 1 5/8" Coax | Yes | 0.40 | 2.46 | 0.00 | 27.147 | 0.00 | 0.99 |
| 127.0 | (3) 1 5/8" Coax | Yes | 0.60 | 2.46 | 0.00 | 27.183 | 0.00 | 1.47 |
| 128.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.244 | 0.00 | 2.46 |
| 129.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.305 | 0.00 | 2.46 |
| 130.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.365 | 0.00 | 2.46 |
| 131.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.425 | 0.00 | 2.46 |
| 132.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.485 | 0.00 | 2.46 |
| 133.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.544 | 0.00 | 2.46 |
| 134.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.603 | 0.00 | 2.46 |
| 135.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.662 | 0.00 | 2.46 |
| 136.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.720 | 0.00 | 2.46 |
| 137.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.778 | 0.00 | 2.46 |
| 138.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.836 | 0.00 | 2.46 |
| 139.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.894 | 0.00 | 2.46 |
| 140.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 27.951 | 0.00 | 2.46 |
| 141.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 28.008 | 0.00 | 2.46 |
| 142.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 28.064 | 0.00 | 2.46 |
| 143.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.121 | 0.00 | 1.89 |
| 144.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.177 | 0.00 | 1.89 |
| 145.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.233 | 0.00 | 1.89 |
| 146.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.288 | 0.00 | 1.89 |
| 147.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.343 | 0.00 | 1.89 |
| 148.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.398 | 0.00 | 1.89 |
| 149.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.453 | 0.00 | 1.89 |
| 150.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 28.507 | 0.00 | 1.89 |
| Totals: | | | | | | | 286.72 | 414.54 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

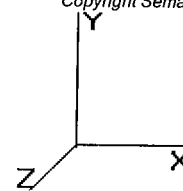
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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|---------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 137.62 | 286.30 | 0.00 | 0.00 |
| 2.00 | 137.05 | 285.29 | 0.00 | 0.00 |
| 3.00 | 136.49 | 284.28 | 0.00 | 0.00 |
| 4.00 | 135.92 | 283.27 | 0.00 | 0.00 |
| 5.00 | 135.36 | 282.26 | 0.00 | 0.00 |
| 6.00 | 134.79 | 281.25 | 0.00 | 0.00 |
| 7.00 | 134.23 | 280.24 | 0.00 | 0.00 |
| 8.00 | 133.66 | 279.23 | 0.00 | 0.00 |
| 9.00 | 133.10 | 278.22 | 0.00 | 0.00 |
| 10.00 | 132.53 | 277.21 | 0.00 | 0.00 |
| 11.00 | 131.97 | 276.20 | 0.00 | 0.00 |
| 12.00 | 131.40 | 275.20 | 0.00 | 0.00 |
| 13.00 | 130.84 | 274.19 | 0.00 | 0.00 |
| 14.00 | 130.27 | 273.18 | 0.00 | 0.00 |
| 15.00 | 783.31 | 460.17 | 0.00 | 0.00 |
| 16.00 | 129.14 | 271.01 | 0.00 | 0.00 |
| 17.00 | 128.58 | 270.00 | 0.00 | 0.00 |
| 18.00 | 128.01 | 268.99 | 0.00 | 0.00 |
| 19.00 | 127.45 | 267.98 | 0.00 | 0.00 |
| 20.00 | 126.88 | 266.97 | 0.00 | 0.00 |
| 21.00 | 126.32 | 265.96 | 0.00 | 0.00 |
| 22.00 | 125.75 | 264.95 | 0.00 | 0.00 |
| 23.00 | 125.19 | 263.94 | 0.00 | 0.00 |
| 24.00 | 124.62 | 262.93 | 0.00 | 0.00 |
| 25.00 | 124.06 | 261.92 | 0.00 | 0.00 |
| 26.00 | 123.49 | 260.91 | 0.00 | 0.00 |
| 27.00 | 122.93 | 259.90 | 0.00 | 0.00 |
| 28.00 | 122.36 | 258.89 | 0.00 | 0.00 |
| 29.00 | 121.80 | 257.88 | 0.00 | 0.00 |
| 30.00 | 121.23 | 256.87 | 0.00 | 0.00 |
| 31.00 | 120.67 | 255.86 | 0.00 | 0.00 |
| 32.00 | 120.10 | 254.85 | 0.00 | 0.00 |
| 33.00 | 119.54 | 253.84 | 0.00 | 0.00 |
| 34.00 | 119.99 | 252.83 | 0.00 | 0.00 |
| 35.00 | 120.41 | 251.82 | 0.00 | 0.00 |
| 36.00 | 120.81 | 250.81 | 0.00 | 0.00 |
| 37.00 | 121.17 | 249.80 | 0.00 | 0.00 |
| 38.00 | 121.51 | 248.79 | 0.00 | 0.00 |
| 39.00 | 121.82 | 247.79 | 0.00 | 0.00 |
| 40.00 | 122.11 | 246.78 | 0.00 | 0.00 |
| 40.57 | 69.71 | 140.39 | 0.00 | 0.00 |
| 41.00 | 53.38 | 179.07 | 0.00 | 0.00 |
| 42.00 | 124.77 | 415.83 | 0.00 | 0.00 |
| 43.00 | 125.00 | 413.95 | 0.00 | 0.00 |
| 44.00 | 125.21 | 412.08 | 0.00 | 0.00 |
| 45.00 | 125.40 | 410.20 | 0.00 | 0.00 |
| 45.73 | 91.56 | 298.22 | 0.00 | 0.00 |
| 46.00 | 33.86 | 58.44 | 0.00 | 0.00 |
| 47.00 | 125.72 | 215.81 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

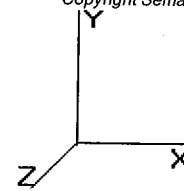
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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | |
|-------|--------|--------|------|-------|
| 48.00 | 125.85 | 214.95 | 0.00 | 0.00 |
| 49.00 | 125.96 | 214.08 | 0.00 | 0.00 |
| 50.00 | 126.05 | 213.22 | 0.00 | 0.00 |
| 51.00 | 126.13 | 212.35 | 0.00 | 0.00 |
| 52.00 | 126.19 | 211.49 | 0.00 | 0.00 |
| 53.00 | 126.23 | 210.62 | 0.00 | 0.00 |
| 54.00 | 126.25 | 209.75 | 0.00 | 0.00 |
| 55.00 | 200.05 | 263.89 | 0.00 | 0.24 |
| 56.00 | 126.26 | 207.87 | 0.00 | 0.00 |
| 57.00 | 126.24 | 207.01 | 0.00 | 0.00 |
| 58.00 | 126.20 | 206.14 | 0.00 | 0.00 |
| 59.00 | 126.15 | 205.28 | 0.00 | 0.00 |
| 60.00 | 126.09 | 204.41 | 0.00 | 0.00 |
| 61.00 | 349.72 | 323.55 | 0.00 | 37.34 |
| 62.00 | 123.68 | 202.23 | 0.00 | 0.00 |
| 63.00 | 123.56 | 201.37 | 0.00 | 0.00 |
| 64.00 | 123.44 | 200.50 | 0.00 | 0.00 |
| 65.00 | 123.30 | 199.64 | 0.00 | 0.00 |
| 66.00 | 123.15 | 198.77 | 0.00 | 0.00 |
| 67.00 | 122.99 | 197.90 | 0.00 | 0.00 |
| 68.00 | 122.82 | 197.04 | 0.00 | 0.00 |
| 69.00 | 122.63 | 196.17 | 0.00 | 0.00 |
| 70.00 | 122.44 | 195.31 | 0.00 | 0.00 |
| 71.00 | 122.23 | 194.44 | 0.00 | 0.00 |
| 72.00 | 122.01 | 193.58 | 0.00 | 0.00 |
| 73.00 | 121.79 | 192.71 | 0.00 | 0.00 |
| 74.00 | 121.55 | 191.85 | 0.00 | 0.00 |
| 75.00 | 121.30 | 190.98 | 0.00 | 0.00 |
| 76.00 | 121.04 | 190.12 | 0.00 | 0.00 |
| 77.00 | 120.78 | 189.25 | 0.00 | 0.00 |
| 78.00 | 120.50 | 188.39 | 0.00 | 0.00 |
| 79.00 | 120.21 | 187.52 | 0.00 | 0.00 |
| 80.00 | 119.92 | 186.65 | 0.00 | 0.00 |
| 81.00 | 240.89 | 245.79 | 0.00 | 20.24 |
| 81.11 | 13.22 | 20.95 | 0.00 | 0.00 |
| 82.00 | 105.54 | 266.72 | 0.00 | 0.00 |
| 83.00 | 118.72 | 299.25 | 0.00 | 0.00 |
| 84.00 | 118.39 | 297.67 | 0.00 | 0.00 |
| 85.00 | 118.05 | 296.08 | 0.00 | 0.00 |
| 85.87 | 102.48 | 256.49 | 0.00 | 0.00 |
| 86.00 | 15.18 | 20.85 | 0.00 | 0.00 |
| 87.00 | 117.35 | 160.78 | 0.00 | 0.00 |
| 88.00 | 116.98 | 160.06 | 0.00 | 0.00 |
| 89.00 | 116.61 | 159.34 | 0.00 | 0.00 |
| 90.00 | 116.23 | 158.62 | 0.00 | 0.00 |
| 91.00 | 115.85 | 157.90 | 0.00 | 0.00 |
| 92.00 | 115.45 | 157.17 | 0.00 | 0.00 |
| 93.00 | 115.05 | 156.45 | 0.00 | 0.00 |
| 94.00 | 114.64 | 155.73 | 0.00 | 0.00 |
| 95.00 | 114.22 | 155.01 | 0.00 | 0.00 |
| 96.00 | 113.80 | 154.29 | 0.00 | 0.00 |
| 97.00 | 113.36 | 153.57 | 0.00 | 0.00 |
| 98.00 | 112.93 | 152.85 | 0.00 | 0.00 |
| 99.00 | 112.48 | 152.13 | 0.00 | 0.00 |
| 100.0 | 112.03 | 151.40 | 0.00 | 0.00 |
| 101.0 | 111.57 | 150.68 | 0.00 | 0.00 |
| 102.0 | 111.10 | 149.96 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

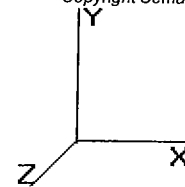
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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | |
|---------|-----------|-----------|------|----------|
| 103.0 | 110.63 | 149.24 | 0.00 | 0.00 |
| 104.0 | 110.15 | 148.52 | 0.00 | 0.00 |
| 105.0 | 753.39 | 413.80 | 0.00 | 0.00 |
| 106.0 | 109.18 | 142.08 | 0.00 | 0.00 |
| 107.0 | 108.68 | 141.36 | 0.00 | 0.00 |
| 108.0 | 108.18 | 140.64 | 0.00 | 0.00 |
| 109.0 | 107.67 | 139.91 | 0.00 | 0.00 |
| 110.0 | 107.15 | 139.19 | 0.00 | 0.00 |
| 111.0 | 106.63 | 138.47 | 0.00 | 0.00 |
| 112.0 | 106.10 | 137.75 | 0.00 | 0.00 |
| 113.0 | 105.57 | 137.03 | 0.00 | 0.00 |
| 114.0 | 105.03 | 136.31 | 0.00 | 0.00 |
| 115.0 | 3,572.07 | 3,025.59 | 0.00 | 0.00 |
| 116.0 | 103.93 | 124.87 | 0.00 | 0.00 |
| 117.0 | 103.38 | 124.15 | 0.00 | 0.00 |
| 118.0 | 102.82 | 123.42 | 0.00 | 0.00 |
| 119.0 | 102.25 | 122.70 | 0.00 | 0.00 |
| 120.0 | 101.68 | 121.98 | 0.00 | 0.00 |
| 121.0 | 101.10 | 121.26 | 0.00 | 0.00 |
| 122.0 | 100.52 | 120.54 | 0.00 | 0.00 |
| 122.2 | 22.02 | 26.43 | 0.00 | 0.00 |
| 123.0 | 79.01 | 134.63 | 0.00 | 0.00 |
| 124.0 | 100.80 | 171.59 | 0.00 | 0.00 |
| 125.0 | 100.21 | 170.44 | 0.00 | 0.00 |
| 126.0 | 99.61 | 169.28 | 0.00 | 0.00 |
| 126.4 | 39.95 | 67.90 | 0.00 | 0.00 |
| 127.0 | 59.00 | 50.40 | 0.00 | 0.00 |
| 128.0 | 98.39 | 84.08 | 0.00 | 0.00 |
| 129.0 | 97.78 | 83.65 | 0.00 | 0.00 |
| 130.0 | 2,777.93 | 2,159.72 | 0.00 | 0.00 |
| 131.0 | 96.53 | 75.28 | 0.00 | 0.00 |
| 132.0 | 95.90 | 74.85 | 0.00 | 0.00 |
| 133.0 | 95.27 | 74.42 | 0.00 | 0.00 |
| 134.0 | 94.63 | 73.99 | 0.00 | 0.00 |
| 135.0 | 93.98 | 73.55 | 0.00 | 0.00 |
| 136.0 | 93.34 | 73.12 | 0.00 | 0.00 |
| 137.0 | 92.68 | 72.69 | 0.00 | 0.00 |
| 138.0 | 92.02 | 72.26 | 0.00 | 0.00 |
| 139.0 | 91.36 | 71.82 | 0.00 | 0.00 |
| 140.0 | 90.70 | 71.39 | 0.00 | 0.00 |
| 141.0 | 90.02 | 70.96 | 0.00 | 0.00 |
| 142.0 | 4,031.02 | 2,844.72 | 0.00 | 0.00 |
| 143.0 | 88.67 | 57.79 | 0.00 | 0.00 |
| 144.0 | 87.99 | 57.36 | 0.00 | 0.00 |
| 145.0 | 87.30 | 56.93 | 0.00 | 0.00 |
| 146.0 | 86.61 | 56.50 | 0.00 | 0.00 |
| 147.0 | 74.00 | 109.39 | 0.00 | 0.00 |
| 148.0 | 74.15 | 109.39 | 0.00 | 0.00 |
| 149.0 | 74.29 | 109.39 | 0.00 | 0.00 |
| 150.0 | 3,815.57 | 3,211.79 | 0.00 | 356.45 |
| 151.0 | 74.58 | 100.87 | 0.00 | 0.00 |
| 152.0 | 74.72 | 100.87 | 0.00 | 0.00 |
| 153.0 | 74.86 | 100.87 | 0.00 | 0.00 |
| 154.0 | 75.00 | 100.87 | 0.00 | 0.00 |
| 155.0 | 667.47 | 600.87 | 0.00 | 4,916.37 |
| Totals: | 33,777.32 | 41,770.44 | 0.00 | 5,330.64 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

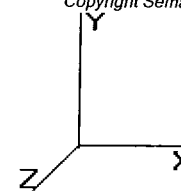
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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

| Seg Elev (ft) | Lateral FX (-) (kips) | Axial FY (-) (kips) | Lateral FZ (kips) | Moment MX (ft-kips) | Torsion MY (ft-kips) | Moment MZ (ft-kips) | X Deflect (in) | Z Deflect (in) | Total Deflect (in) | Rotation (deg) |
|---------------|-----------------------|---------------------|-------------------|---------------------|----------------------|---------------------|----------------|----------------|--------------------|----------------|
| 0.00 | -33.793 | -41.756 | 0.000 | 0.000 | 0.000 | -3,508.064 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1.00 | -33.688 | -41.443 | 0.000 | 0.000 | 0.000 | -3,474.272 | -0.005 | 0.000 | 0.005 | -0.045 |
| 2.00 | -33.584 | -41.131 | 0.000 | 0.000 | 0.000 | -3,440.584 | -0.020 | 0.000 | 0.020 | -0.091 |
| 3.00 | -33.479 | -40.820 | 0.000 | 0.000 | 0.000 | -3,407.002 | -0.044 | 0.000 | 0.044 | -0.137 |
| 4.00 | -33.375 | -40.511 | 0.000 | 0.000 | 0.000 | -3,373.523 | -0.078 | 0.000 | 0.078 | -0.182 |
| 5.00 | -33.271 | -40.202 | 0.000 | 0.000 | 0.000 | -3,340.149 | -0.121 | 0.000 | 0.121 | -0.228 |
| 6.00 | -33.167 | -39.895 | 0.000 | 0.000 | 0.000 | -3,306.879 | -0.174 | 0.000 | 0.174 | -0.274 |
| 7.00 | -33.063 | -39.589 | 0.000 | 0.000 | 0.000 | -3,273.713 | -0.237 | 0.000 | 0.237 | -0.321 |
| 8.00 | -32.960 | -39.283 | 0.000 | 0.000 | 0.000 | -3,240.650 | -0.309 | 0.000 | 0.309 | -0.367 |
| 9.00 | -32.856 | -38.980 | 0.000 | 0.000 | 0.000 | -3,207.691 | -0.392 | 0.000 | 0.392 | -0.413 |
| 10.00 | -32.753 | -38.677 | 0.000 | 0.000 | 0.000 | -3,174.836 | -0.483 | 0.000 | 0.483 | -0.460 |
| 11.00 | -32.650 | -38.375 | 0.000 | 0.000 | 0.000 | -3,142.083 | -0.585 | 0.000 | 0.585 | -0.507 |
| 12.00 | -32.548 | -38.074 | 0.000 | 0.000 | 0.000 | -3,109.434 | -0.696 | 0.000 | 0.696 | -0.554 |
| 13.00 | -32.445 | -37.775 | 0.000 | 0.000 | 0.000 | -3,076.887 | -0.818 | 0.000 | 0.818 | -0.601 |
| 14.00 | -32.343 | -37.476 | 0.000 | 0.000 | 0.000 | -3,044.442 | -0.949 | 0.000 | 0.949 | -0.648 |
| 15.00 | -31.585 | -36.999 | 0.000 | 0.000 | 0.000 | -3,012.100 | -1.090 | 0.000 | 1.090 | -0.695 |
| 16.00 | -31.483 | -36.704 | 0.000 | 0.000 | 0.000 | -2,980.516 | -1.241 | 0.000 | 1.241 | -0.743 |
| 17.00 | -31.381 | -36.410 | 0.000 | 0.000 | 0.000 | -2,949.035 | -1.402 | 0.000 | 1.402 | -0.790 |
| 18.00 | -31.279 | -36.116 | 0.000 | 0.000 | 0.000 | -2,917.655 | -1.573 | 0.000 | 1.573 | -0.838 |
| 19.00 | -31.177 | -35.824 | 0.000 | 0.000 | 0.000 | -2,886.376 | -1.754 | 0.000 | 1.754 | -0.886 |
| 20.00 | -31.076 | -35.533 | 0.000 | 0.000 | 0.000 | -2,855.199 | -1.945 | 0.000 | 1.945 | -0.934 |
| 21.00 | -30.975 | -35.243 | 0.000 | 0.000 | 0.000 | -2,824.124 | -2.146 | 0.000 | 2.146 | -0.982 |
| 22.00 | -30.874 | -34.955 | 0.000 | 0.000 | 0.000 | -2,793.149 | -2.357 | 0.000 | 2.357 | -1.030 |
| 23.00 | -30.774 | -34.667 | 0.000 | 0.000 | 0.000 | -2,762.276 | -2.578 | 0.000 | 2.578 | -1.079 |
| 24.00 | -30.673 | -34.380 | 0.000 | 0.000 | 0.000 | -2,731.503 | -2.809 | 0.000 | 2.809 | -1.127 |
| 25.00 | -30.573 | -34.095 | 0.000 | 0.000 | 0.000 | -2,700.830 | -3.051 | 0.000 | 3.051 | -1.176 |
| 26.00 | -30.473 | -33.811 | 0.000 | 0.000 | 0.000 | -2,670.258 | -3.303 | 0.000 | 3.303 | -1.225 |
| 27.00 | -30.373 | -33.528 | 0.000 | 0.000 | 0.000 | -2,639.786 | -3.565 | 0.000 | 3.565 | -1.274 |
| 28.00 | -30.273 | -33.246 | 0.000 | 0.000 | 0.000 | -2,609.413 | -3.837 | 0.000 | 3.837 | -1.323 |
| 29.00 | -30.174 | -32.965 | 0.000 | 0.000 | 0.000 | -2,579.140 | -4.120 | 0.000 | 4.120 | -1.372 |
| 30.00 | -30.075 | -32.685 | 0.000 | 0.000 | 0.000 | -2,548.967 | -4.413 | 0.000 | 4.413 | -1.422 |
| 31.00 | -29.976 | -32.406 | 0.000 | 0.000 | 0.000 | -2,518.893 | -4.716 | 0.000 | 4.716 | -1.472 |
| 32.00 | -29.877 | -32.129 | 0.000 | 0.000 | 0.000 | -2,488.917 | -5.030 | 0.000 | 5.030 | -1.521 |
| 33.00 | -29.778 | -31.852 | 0.000 | 0.000 | 0.000 | -2,459.041 | -5.354 | 0.000 | 5.354 | -1.571 |
| 34.00 | -29.679 | -31.577 | 0.000 | 0.000 | 0.000 | -2,429.263 | -5.689 | 0.000 | 5.689 | -1.621 |
| 35.00 | -29.579 | -31.303 | 0.000 | 0.000 | 0.000 | -2,399.585 | -6.034 | 0.000 | 6.034 | -1.671 |
| 36.00 | -29.478 | -31.030 | 0.000 | 0.000 | 0.000 | -2,370.006 | -6.390 | 0.000 | 6.390 | -1.721 |
| 37.00 | -29.376 | -30.758 | 0.000 | 0.000 | 0.000 | -2,340.529 | -6.756 | 0.000 | 6.756 | -1.772 |
| 38.00 | -29.274 | -30.487 | 0.000 | 0.000 | 0.000 | -2,311.153 | -7.133 | 0.000 | 7.133 | -1.822 |
| 39.00 | -29.171 | -30.218 | 0.000 | 0.000 | 0.000 | -2,281.880 | -7.520 | 0.000 | 7.520 | -1.873 |
| 40.00 | -29.062 | -29.955 | 0.000 | 0.000 | 0.000 | -2,252.710 | -7.918 | 0.000 | 7.918 | -1.924 |
| 40.57 | -29.000 | -29.804 | 0.000 | 0.000 | 0.000 | -2,236.123 | -8.150 | 0.000 | 8.150 | -1.953 |
| 41.00 | -28.960 | -29.608 | 0.000 | 0.000 | 0.000 | -2,223.675 | -8.326 | 0.000 | 8.326 | -1.975 |
| 42.00 | -28.847 | -29.171 | 0.000 | 0.000 | 0.000 | -2,194.716 | -8.746 | 0.000 | 8.746 | -2.026 |
| 43.00 | -28.733 | -28.737 | 0.000 | 0.000 | 0.000 | -2,165.869 | -9.176 | 0.000 | 9.176 | -2.077 |
| 44.00 | -28.618 | -28.304 | 0.000 | 0.000 | 0.000 | -2,137.138 | -9.616 | 0.000 | 9.616 | -2.128 |
| 45.00 | -28.499 | -27.877 | 0.000 | 0.000 | 0.000 | -2,108.521 | -10.068 | 0.000 | 10.068 | -2.179 |
| 45.73 | -28.408 | -27.569 | 0.000 | 0.000 | 0.000 | -2,087.720 | -10.404 | 0.000 | 10.404 | -2.217 |
| 46.00 | -28.389 | -27.495 | 0.000 | 0.000 | 0.000 | -2,080.047 | -10.530 | 0.000 | 10.530 | -2.231 |
| 47.00 | -28.282 | -27.256 | 0.000 | 0.000 | 0.000 | -2,051.659 | -11.003 | 0.000 | 11.003 | -2.288 |
| 48.00 | -28.174 | -27.018 | 0.000 | 0.000 | 0.000 | -2,023.377 | -11.489 | 0.000 | 11.489 | -2.344 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

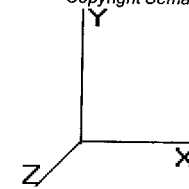
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|-------|---------|---------|-------|-------|-------|------------|---------|-------|--------|--------|
| 49.00 | -28.066 | -26.782 | 0.000 | 0.000 | 0.000 | -1,995.204 | -11.986 | 0.000 | 11.986 | -2.401 |
| 50.00 | -27.957 | -26.546 | 0.000 | 0.000 | 0.000 | -1,967.138 | -12.495 | 0.000 | 12.495 | -2.458 |
| 51.00 | -27.848 | -26.312 | 0.000 | 0.000 | 0.000 | -1,939.181 | -13.016 | 0.000 | 13.016 | -2.515 |
| 52.00 | -27.739 | -26.079 | 0.000 | 0.000 | 0.000 | -1,911.334 | -13.549 | 0.000 | 13.549 | -2.572 |
| 53.00 | -27.629 | -25.846 | 0.000 | 0.000 | 0.000 | -1,883.595 | -14.094 | 0.000 | 14.094 | -2.629 |
| 54.00 | -27.519 | -25.615 | 0.000 | 0.000 | 0.000 | -1,855.967 | -14.651 | 0.000 | 14.651 | -2.687 |
| 55.00 | -27.332 | -25.334 | 0.000 | 0.000 | 0.000 | -1,828.448 | -15.220 | 0.000 | 15.220 | -2.744 |
| 56.00 | -27.221 | -25.105 | 0.000 | 0.000 | 0.000 | -1,801.116 | -15.801 | 0.000 | 15.801 | -2.801 |
| 57.00 | -27.110 | -24.877 | 0.000 | 0.000 | 0.000 | -1,773.896 | -16.394 | 0.000 | 16.394 | -2.859 |
| 58.00 | -26.998 | -24.651 | 0.000 | 0.000 | 0.000 | -1,746.787 | -16.999 | 0.000 | 16.999 | -2.916 |
| 59.00 | -26.886 | -24.425 | 0.000 | 0.000 | 0.000 | -1,719.789 | -17.616 | 0.000 | 17.616 | -2.974 |
| 60.00 | -26.774 | -24.201 | 0.000 | 0.000 | 0.000 | -1,692.904 | -18.245 | 0.000 | 18.245 | -3.031 |
| 61.00 | -26.431 | -23.870 | 0.000 | 0.000 | 0.000 | -1,666.093 | -18.886 | 0.000 | 18.886 | -3.089 |
| 62.00 | -26.321 | -23.648 | 0.000 | 0.000 | 0.000 | -1,639.662 | -19.539 | 0.000 | 19.539 | -3.147 |
| 63.00 | -26.210 | -23.427 | 0.000 | 0.000 | 0.000 | -1,613.342 | -20.205 | 0.000 | 20.205 | -3.205 |
| 64.00 | -26.099 | -23.208 | 0.000 | 0.000 | 0.000 | -1,587.133 | -20.882 | 0.000 | 20.882 | -3.262 |
| 65.00 | -25.987 | -22.989 | 0.000 | 0.000 | 0.000 | -1,561.035 | -21.571 | 0.000 | 21.571 | -3.320 |
| 66.00 | -25.876 | -22.772 | 0.000 | 0.000 | 0.000 | -1,535.048 | -22.273 | 0.000 | 22.273 | -3.378 |
| 67.00 | -25.764 | -22.556 | 0.000 | 0.000 | 0.000 | -1,509.173 | -22.987 | 0.000 | 22.987 | -3.436 |
| 68.00 | -25.652 | -22.340 | 0.000 | 0.000 | 0.000 | -1,483.409 | -23.712 | 0.000 | 23.712 | -3.494 |
| 69.00 | -25.540 | -22.126 | 0.000 | 0.000 | 0.000 | -1,457.757 | -24.450 | 0.000 | 24.450 | -3.552 |
| 70.00 | -25.428 | -21.913 | 0.000 | 0.000 | 0.000 | -1,432.218 | -25.200 | 0.000 | 25.200 | -3.610 |
| 71.00 | -25.316 | -21.702 | 0.000 | 0.000 | 0.000 | -1,406.790 | -25.962 | 0.000 | 25.962 | -3.668 |
| 72.00 | -25.203 | -21.491 | 0.000 | 0.000 | 0.000 | -1,381.475 | -26.737 | 0.000 | 26.737 | -3.726 |
| 73.00 | -25.090 | -21.281 | 0.000 | 0.000 | 0.000 | -1,356.272 | -27.523 | 0.000 | 27.523 | -3.784 |
| 74.00 | -24.978 | -21.073 | 0.000 | 0.000 | 0.000 | -1,331.182 | -28.321 | 0.000 | 28.321 | -3.841 |
| 75.00 | -24.865 | -20.865 | 0.000 | 0.000 | 0.000 | -1,306.205 | -29.132 | 0.000 | 29.132 | -3.899 |
| 76.00 | -24.752 | -20.659 | 0.000 | 0.000 | 0.000 | -1,281.341 | -29.954 | 0.000 | 29.954 | -3.957 |
| 77.00 | -24.639 | -20.454 | 0.000 | 0.000 | 0.000 | -1,256.590 | -30.789 | 0.000 | 30.789 | -4.015 |
| 78.00 | -24.526 | -20.250 | 0.000 | 0.000 | 0.000 | -1,231.951 | -31.636 | 0.000 | 31.636 | -4.072 |
| 79.00 | -24.413 | -20.047 | 0.000 | 0.000 | 0.000 | -1,207.426 | -32.494 | 0.000 | 32.494 | -4.130 |
| 80.00 | -24.299 | -19.845 | 0.000 | 0.000 | 0.000 | -1,183.014 | -33.365 | 0.000 | 33.365 | -4.187 |
| 81.00 | -24.052 | -19.604 | 0.000 | 0.000 | 0.000 | -1,158.695 | -34.248 | 0.000 | 34.248 | -4.245 |
| 81.11 | -24.047 | -19.572 | 0.000 | 0.000 | 0.000 | -1,155.974 | -34.348 | 0.000 | 34.348 | -4.251 |
| 82.00 | -23.940 | -19.292 | 0.000 | 0.000 | 0.000 | -1,134.648 | -35.142 | 0.000 | 35.142 | -4.302 |
| 83.00 | -23.818 | -18.978 | 0.000 | 0.000 | 0.000 | -1,110.708 | -36.049 | 0.000 | 36.049 | -4.359 |
| 84.00 | -23.696 | -18.667 | 0.000 | 0.000 | 0.000 | -1,086.891 | -36.968 | 0.000 | 36.968 | -4.416 |
| 85.00 | -23.572 | -18.359 | 0.000 | 0.000 | 0.000 | -1,063.195 | -37.898 | 0.000 | 37.898 | -4.473 |
| 85.87 | -23.459 | -18.100 | 0.000 | 0.000 | 0.000 | -1,042.673 | -38.718 | 0.000 | 38.718 | -4.522 |
| 86.00 | -23.453 | -18.066 | 0.000 | 0.000 | 0.000 | -1,039.638 | -38.840 | 0.000 | 38.840 | -4.530 |
| 87.00 | -23.344 | -17.889 | 0.000 | 0.000 | 0.000 | -1,016.185 | -39.795 | 0.000 | 39.795 | -4.593 |
| 88.00 | -23.234 | -17.713 | 0.000 | 0.000 | 0.000 | -992.842 | -40.763 | 0.000 | 40.763 | -4.657 |
| 89.00 | -23.124 | -17.538 | 0.000 | 0.000 | 0.000 | -969.609 | -41.745 | 0.000 | 41.745 | -4.720 |
| 90.00 | -23.014 | -17.365 | 0.000 | 0.000 | 0.000 | -946.486 | -42.739 | 0.000 | 42.739 | -4.783 |
| 91.00 | -22.904 | -17.192 | 0.000 | 0.000 | 0.000 | -923.473 | -43.747 | 0.000 | 43.747 | -4.845 |
| 92.00 | -22.794 | -17.021 | 0.000 | 0.000 | 0.000 | -900.570 | -44.768 | 0.000 | 44.768 | -4.908 |
| 93.00 | -22.684 | -16.850 | 0.000 | 0.000 | 0.000 | -877.776 | -45.802 | 0.000 | 45.802 | -4.970 |
| 94.00 | -22.574 | -16.681 | 0.000 | 0.000 | 0.000 | -855.093 | -46.848 | 0.000 | 46.848 | -5.031 |
| 95.00 | -22.464 | -16.513 | 0.000 | 0.000 | 0.000 | -832.519 | -47.907 | 0.000 | 47.907 | -5.092 |
| 96.00 | -22.354 | -16.346 | 0.000 | 0.000 | 0.000 | -810.056 | -48.979 | 0.000 | 48.979 | -5.153 |
| 97.00 | -22.245 | -16.180 | 0.000 | 0.000 | 0.000 | -787.702 | -50.064 | 0.000 | 50.064 | -5.213 |
| 98.00 | -22.135 | -16.015 | 0.000 | 0.000 | 0.000 | -765.458 | -51.161 | 0.000 | 51.161 | -5.273 |
| 99.00 | -22.025 | -15.851 | 0.000 | 0.000 | 0.000 | -743.323 | -52.271 | 0.000 | 52.271 | -5.333 |
| 100.0 | -21.916 | -15.688 | 0.000 | 0.000 | 0.000 | -721.299 | -53.393 | 0.000 | 53.393 | -5.391 |
| 101.0 | -21.806 | -15.527 | 0.000 | 0.000 | 0.000 | -699.384 | -54.527 | 0.000 | 54.527 | -5.450 |
| 102.0 | -21.696 | -15.366 | 0.000 | 0.000 | 0.000 | -677.578 | -55.674 | 0.000 | 55.674 | -5.507 |
| 103.0 | -21.587 | -15.207 | 0.000 | 0.000 | 0.000 | -655.882 | -56.832 | 0.000 | 56.832 | -5.564 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

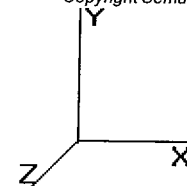
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: No Ice

85.00 mph Wind with No Ice

33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|-------|---------|---------|-------|-------|-------|----------|----------|-------|---------|--------|
| 104.0 | -21.478 | -15.049 | 0.000 | 0.000 | 0.000 | -634.296 | -58.002 | 0.000 | 58.002 | -5.621 |
| 105.0 | -20.701 | -14.692 | 0.000 | 0.000 | 0.000 | -612.819 | -59.184 | 0.000 | 59.184 | -5.677 |
| 106.0 | -20.593 | -14.541 | 0.000 | 0.000 | 0.000 | -592.118 | -60.377 | 0.000 | 60.377 | -5.732 |
| 107.0 | -20.484 | -14.392 | 0.000 | 0.000 | 0.000 | -571.526 | -61.582 | 0.000 | 61.582 | -5.786 |
| 108.0 | -20.375 | -14.245 | 0.000 | 0.000 | 0.000 | -551.042 | -62.797 | 0.000 | 62.797 | -5.839 |
| 109.0 | -20.267 | -14.098 | 0.000 | 0.000 | 0.000 | -530.668 | -64.024 | 0.000 | 64.024 | -5.892 |
| 110.0 | -20.158 | -13.952 | 0.000 | 0.000 | 0.000 | -510.401 | -65.262 | 0.000 | 65.262 | -5.944 |
| 111.0 | -20.050 | -13.808 | 0.000 | 0.000 | 0.000 | -490.244 | -66.511 | 0.000 | 66.511 | -5.995 |
| 112.0 | -19.942 | -13.665 | 0.000 | 0.000 | 0.000 | -470.194 | -67.770 | 0.000 | 67.770 | -6.045 |
| 113.0 | -19.834 | -13.523 | 0.000 | 0.000 | 0.000 | -450.252 | -69.040 | 0.000 | 69.040 | -6.094 |
| 114.0 | -19.726 | -13.382 | 0.000 | 0.000 | 0.000 | -430.419 | -70.319 | 0.000 | 70.319 | -6.143 |
| 115.0 | -15.858 | -10.745 | 0.000 | 0.000 | 0.000 | -410.693 | -71.609 | 0.000 | 71.609 | -6.190 |
| 116.0 | -15.750 | -10.620 | 0.000 | 0.000 | 0.000 | -394.835 | -72.908 | 0.000 | 72.908 | -6.236 |
| 117.0 | -15.642 | -10.495 | 0.000 | 0.000 | 0.000 | -379.085 | -74.217 | 0.000 | 74.217 | -6.281 |
| 118.0 | -15.534 | -10.372 | 0.000 | 0.000 | 0.000 | -363.444 | -75.535 | 0.000 | 75.535 | -6.326 |
| 119.0 | -15.427 | -10.250 | 0.000 | 0.000 | 0.000 | -347.910 | -76.862 | 0.000 | 76.862 | -6.370 |
| 120.0 | -15.320 | -10.129 | 0.000 | 0.000 | 0.000 | -332.483 | -78.198 | 0.000 | 78.198 | -6.412 |
| 121.0 | -15.213 | -10.008 | 0.000 | 0.000 | 0.000 | -317.164 | -79.543 | 0.000 | 79.543 | -6.454 |
| 122.0 | -15.104 | -9.893 | 0.000 | 0.000 | 0.000 | -301.951 | -80.897 | 0.000 | 80.897 | -6.495 |
| 122.2 | -15.082 | -9.864 | 0.000 | 0.000 | 0.000 | -298.628 | -81.196 | 0.000 | 81.196 | -6.504 |
| 123.0 | -14.995 | -9.730 | 0.000 | 0.000 | 0.000 | -286.864 | -82.259 | 0.000 | 82.259 | -6.535 |
| 124.0 | -14.881 | -9.561 | 0.000 | 0.000 | 0.000 | -271.870 | -83.630 | 0.000 | 83.630 | -6.574 |
| 125.0 | -14.768 | -9.394 | 0.000 | 0.000 | 0.000 | -256.989 | -85.008 | 0.000 | 85.008 | -6.612 |
| 126.0 | -14.654 | -9.231 | 0.000 | 0.000 | 0.000 | -242.221 | -86.394 | 0.000 | 86.394 | -6.649 |
| 126.4 | -14.609 | -9.164 | 0.000 | 0.000 | 0.000 | -236.315 | -86.955 | 0.000 | 86.955 | -6.663 |
| 127.0 | -14.551 | -9.111 | 0.000 | 0.000 | 0.000 | -227.594 | -87.788 | 0.000 | 87.788 | -6.684 |
| 128.0 | -14.452 | -9.025 | 0.000 | 0.000 | 0.000 | -213.044 | -89.191 | 0.000 | 89.191 | -6.737 |
| 129.0 | -14.352 | -8.941 | 0.000 | 0.000 | 0.000 | -198.593 | -90.605 | 0.000 | 90.605 | -6.788 |
| 130.0 | -11.344 | -7.117 | 0.000 | 0.000 | 0.000 | -184.240 | -92.029 | 0.000 | 92.029 | -6.837 |
| 131.0 | -11.244 | -7.045 | 0.000 | 0.000 | 0.000 | -172.897 | -93.463 | 0.000 | 93.463 | -6.884 |
| 132.0 | -11.146 | -6.974 | 0.000 | 0.000 | 0.000 | -161.653 | -94.907 | 0.000 | 94.907 | -6.929 |
| 133.0 | -11.047 | -6.903 | 0.000 | 0.000 | 0.000 | -150.507 | -96.359 | 0.000 | 96.359 | -6.971 |
| 134.0 | -10.949 | -6.834 | 0.000 | 0.000 | 0.000 | -139.460 | -97.821 | 0.000 | 97.821 | -7.012 |
| 135.0 | -10.851 | -6.765 | 0.000 | 0.000 | 0.000 | -128.512 | -99.290 | 0.000 | 99.290 | -7.051 |
| 136.0 | -10.754 | -6.697 | 0.000 | 0.000 | 0.000 | -117.661 | -100.768 | 0.000 | 100.768 | -7.088 |
| 137.0 | -10.657 | -6.631 | 0.000 | 0.000 | 0.000 | -106.907 | -102.253 | 0.000 | 102.253 | -7.123 |
| 138.0 | -10.560 | -6.565 | 0.000 | 0.000 | 0.000 | -96.250 | -103.745 | 0.000 | 103.745 | -7.155 |
| 139.0 | -10.464 | -6.500 | 0.000 | 0.000 | 0.000 | -85.691 | -105.243 | 0.000 | 105.243 | -7.184 |
| 140.0 | -10.368 | -6.436 | 0.000 | 0.000 | 0.000 | -75.227 | -106.747 | 0.000 | 106.747 | -7.211 |
| 141.0 | -10.272 | -6.373 | 0.000 | 0.000 | 0.000 | -64.860 | -108.257 | 0.000 | 108.257 | -7.235 |
| 142.0 | -5.915 | -4.057 | 0.000 | 0.000 | 0.000 | -54.588 | -109.771 | 0.000 | 109.771 | -7.256 |
| 143.0 | -5.822 | -4.009 | 0.000 | 0.000 | 0.000 | -48.673 | -111.289 | 0.000 | 111.289 | -7.275 |
| 144.0 | -5.728 | -3.962 | 0.000 | 0.000 | 0.000 | -42.851 | -112.811 | 0.000 | 112.811 | -7.292 |
| 145.0 | -5.635 | -3.915 | 0.000 | 0.000 | 0.000 | -37.123 | -114.336 | 0.000 | 114.336 | -7.307 |
| 146.0 | -5.543 | -3.869 | 0.000 | 0.000 | 0.000 | -31.488 | -115.864 | 0.000 | 115.864 | -7.321 |
| 147.0 | -5.456 | -3.769 | 0.000 | 0.000 | 0.000 | -25.945 | -117.394 | 0.000 | 117.394 | -7.333 |
| 148.0 | -5.369 | -3.669 | 0.000 | 0.000 | 0.000 | -20.489 | -118.927 | 0.000 | 118.927 | -7.339 |
| 149.0 | -5.282 | -3.570 | 0.000 | 0.000 | 0.000 | -15.120 | -120.460 | 0.000 | 120.460 | -7.343 |
| 150.0 | -1.087 | -0.872 | 0.000 | 0.000 | 0.000 | -9.482 | -121.995 | 0.000 | 121.995 | -7.347 |
| 151.0 | -1.000 | -0.782 | 0.000 | 0.000 | 0.000 | -8.395 | -123.529 | 0.000 | 123.529 | -7.349 |
| 152.0 | -0.913 | -0.691 | 0.000 | 0.000 | 0.000 | -7.395 | -125.064 | 0.000 | 125.064 | -7.351 |
| 153.0 | -0.826 | -0.601 | 0.000 | 0.000 | 0.000 | -6.481 | -126.600 | 0.000 | 126.600 | -7.353 |
| 154.0 | -0.739 | -0.510 | 0.000 | 0.000 | 0.000 | -5.655 | -128.136 | 0.000 | 128.136 | -7.354 |
| 155.0 | -0.667 | 0.000 | 0.000 | 0.000 | 0.000 | -4.916 | -129.672 | 0.000 | 129.672 | -7.356 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

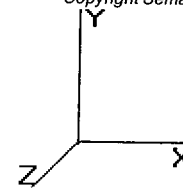
Code: TIA/EIA-222 Rev F

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Page: 24

Base Elev : 0.000 (ft)



Load Case: No Ice

85.00 mph Wind with No Ice

33 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Calculated Stresses

| Seg Elev (ft) | Applied Stresses | | | | | | | Allowable Stress (Fb) (ksi) | Stress Ratio | |
|---------------------|--------------------|--------------------|--------------------|------------------|----------------------|----------------------|-------------------|-----------------------------------|-----------------|-------|
| | Axial (Y) (ksi) | Shear (X) (ksi) | Shear (Z) (ksi) | Torsion (ksi) | Bending (X) (ksi) | Bending (Z) (ksi) | Combined (ksi) | | | |
| 0.00 | 0.60 | 0.98 | 0.00 | 0.00 | 0.00 | 49.77 | 50.40 | 52.0 | 0.0 | 0.969 |
| 1.00 | 0.60 | 0.98 | 0.00 | 0.00 | 0.00 | 49.71 | 50.34 | 52.0 | 0.0 | 0.968 |
| 2.00 | 0.59 | 0.99 | 0.00 | 0.00 | 0.00 | 49.66 | 50.28 | 52.0 | 0.0 | 0.967 |
| 3.00 | 0.59 | 0.99 | 0.00 | 0.00 | 0.00 | 49.60 | 50.22 | 52.0 | 0.0 | 0.966 |
| 4.00 | 0.59 | 0.99 | 0.00 | 0.00 | 0.00 | 49.54 | 50.16 | 52.0 | 0.0 | 0.965 |
| 5.00 | 0.59 | 0.99 | 0.00 | 0.00 | 0.00 | 49.48 | 50.09 | 52.0 | 0.0 | 0.963 |
| 6.00 | 0.59 | 0.99 | 0.00 | 0.00 | 0.00 | 49.41 | 50.03 | 52.0 | 0.0 | 0.962 |
| 7.00 | 0.58 | 0.99 | 0.00 | 0.00 | 0.00 | 49.35 | 49.96 | 52.0 | 0.0 | 0.961 |
| 8.00 | 0.58 | 0.99 | 0.00 | 0.00 | 0.00 | 49.28 | 49.90 | 52.0 | 0.0 | 0.960 |
| 9.00 | 0.58 | 0.99 | 0.00 | 0.00 | 0.00 | 49.22 | 49.83 | 52.0 | 0.0 | 0.958 |
| 10.00 | 0.58 | 1.00 | 0.00 | 0.00 | 0.00 | 49.15 | 49.76 | 52.0 | 0.0 | 0.957 |
| 11.00 | 0.58 | 1.00 | 0.00 | 0.00 | 0.00 | 49.08 | 49.68 | 52.0 | 0.0 | 0.956 |
| 12.00 | 0.57 | 1.00 | 0.00 | 0.00 | 0.00 | 49.01 | 49.61 | 52.0 | 0.0 | 0.954 |
| 13.00 | 0.57 | 1.00 | 0.00 | 0.00 | 0.00 | 48.93 | 49.53 | 52.0 | 0.0 | 0.953 |
| 14.00 | 0.57 | 1.00 | 0.00 | 0.00 | 0.00 | 48.86 | 49.46 | 52.0 | 0.0 | 0.951 |
| 15.00 | 0.57 | 0.98 | 0.00 | 0.00 | 0.00 | 48.78 | 49.37 | 52.0 | 0.0 | 0.950 |
| 16.00 | 0.56 | 0.98 | 0.00 | 0.00 | 0.00 | 48.71 | 49.30 | 52.0 | 0.0 | 0.948 |
| 17.00 | 0.56 | 0.98 | 0.00 | 0.00 | 0.00 | 48.64 | 49.23 | 52.0 | 0.0 | 0.947 |
| 18.00 | 0.56 | 0.99 | 0.00 | 0.00 | 0.00 | 48.57 | 49.16 | 52.0 | 0.0 | 0.945 |
| 19.00 | 0.56 | 0.99 | 0.00 | 0.00 | 0.00 | 48.50 | 49.08 | 52.0 | 0.0 | 0.944 |
| 20.00 | 0.56 | 0.99 | 0.00 | 0.00 | 0.00 | 48.42 | 49.01 | 52.0 | 0.0 | 0.943 |
| 21.00 | 0.55 | 0.99 | 0.00 | 0.00 | 0.00 | 48.34 | 48.93 | 52.0 | 0.0 | 0.941 |
| 22.00 | 0.55 | 0.99 | 0.00 | 0.00 | 0.00 | 48.27 | 48.85 | 52.0 | 0.0 | 0.939 |
| 23.00 | 0.55 | 0.99 | 0.00 | 0.00 | 0.00 | 48.19 | 48.77 | 52.0 | 0.0 | 0.938 |
| 24.00 | 0.55 | 0.99 | 0.00 | 0.00 | 0.00 | 48.10 | 48.68 | 52.0 | 0.0 | 0.936 |
| 25.00 | 0.55 | 1.00 | 0.00 | 0.00 | 0.00 | 48.02 | 48.59 | 52.0 | 0.0 | 0.935 |
| 26.00 | 0.54 | 1.00 | 0.00 | 0.00 | 0.00 | 47.93 | 48.51 | 52.0 | 0.0 | 0.933 |
| 27.00 | 0.54 | 1.00 | 0.00 | 0.00 | 0.00 | 47.84 | 48.42 | 52.0 | 0.0 | 0.931 |
| 28.00 | 0.54 | 1.00 | 0.00 | 0.00 | 0.00 | 47.75 | 48.32 | 52.0 | 0.0 | 0.929 |
| 29.00 | 0.54 | 1.00 | 0.00 | 0.00 | 0.00 | 47.66 | 48.23 | 52.0 | 0.0 | 0.928 |
| 30.00 | 0.54 | 1.00 | 0.00 | 0.00 | 0.00 | 47.56 | 48.13 | 52.0 | 0.0 | 0.926 |
| 31.00 | 0.53 | 1.00 | 0.00 | 0.00 | 0.00 | 47.47 | 48.03 | 52.0 | 0.0 | 0.924 |
| 32.00 | 0.53 | 1.01 | 0.00 | 0.00 | 0.00 | 47.37 | 47.93 | 52.0 | 0.0 | 0.922 |
| 33.00 | 0.53 | 1.01 | 0.00 | 0.00 | 0.00 | 47.26 | 47.83 | 52.0 | 0.0 | 0.920 |
| 34.00 | 0.53 | 1.01 | 0.00 | 0.00 | 0.00 | 47.16 | 47.72 | 52.0 | 0.0 | 0.918 |
| 35.00 | 0.53 | 1.01 | 0.00 | 0.00 | 0.00 | 47.05 | 47.61 | 52.0 | 0.0 | 0.916 |
| 36.00 | 0.52 | 1.01 | 0.00 | 0.00 | 0.00 | 46.94 | 47.50 | 52.0 | 0.0 | 0.914 |
| 37.00 | 0.52 | 1.01 | 0.00 | 0.00 | 0.00 | 46.83 | 47.38 | 52.0 | 0.0 | 0.911 |
| 38.00 | 0.52 | 1.02 | 0.00 | 0.00 | 0.00 | 46.71 | 47.27 | 52.0 | 0.0 | 0.909 |
| 39.00 | 0.52 | 1.02 | 0.00 | 0.00 | 0.00 | 46.59 | 47.15 | 52.0 | 0.0 | 0.907 |
| 40.00 | 0.52 | 1.02 | 0.00 | 0.00 | 0.00 | 46.47 | 47.02 | 52.0 | 0.0 | 0.904 |
| 40.57 | 0.52 | 1.02 | 0.00 | 0.00 | 0.00 | 46.40 | 46.95 | 52.0 | 0.0 | 0.903 |
| 41.00 | 0.51 | 1.02 | 0.00 | 0.00 | 0.00 | 46.35 | 46.90 | 52.0 | 0.0 | 0.902 |
| 42.00 | 0.51 | 1.02 | 0.00 | 0.00 | 0.00 | 46.22 | 46.77 | 52.0 | 0.0 | 0.899 |
| 43.00 | 0.50 | 1.02 | 0.00 | 0.00 | 0.00 | 46.09 | 46.63 | 52.0 | 0.0 | 0.897 |
| 44.00 | 0.50 | 1.02 | 0.00 | 0.00 | 0.00 | 45.96 | 46.49 | 52.0 | 0.0 | 0.894 |
| 45.00 | 0.49 | 1.03 | 0.00 | 0.00 | 0.00 | 45.83 | 46.35 | 52.0 | 0.0 | 0.892 |
| 45.73 | 0.56 | 1.17 | 0.00 | 0.00 | 0.00 | 51.15 | 51.75 | 52.0 | 0.0 | 0.995 |
| 46.00 | 0.56 | 1.17 | 0.00 | 0.00 | 0.00 | 51.11 | 51.71 | 52.0 | 0.0 | 0.994 |
| 47.00 | 0.56 | 1.18 | 0.00 | 0.00 | 0.00 | 50.94 | 51.54 | 52.0 | 0.0 | 0.991 |
| 48.00 | 0.56 | 1.18 | 0.00 | 0.00 | 0.00 | 50.77 | 51.36 | 52.0 | 0.0 | 0.988 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

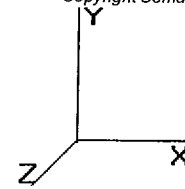
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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|--------|------|------|------|------|------|-------|-------|------|-----|-------|
| 49.00 | 0.55 | 1.18 | 0.00 | 0.00 | 0.00 | 50.59 | 51.18 | 52.0 | 0.0 | 0.984 |
| 50.00 | 0.55 | 1.18 | 0.00 | 0.00 | 0.00 | 50.41 | 51.00 | 52.0 | 0.0 | 0.981 |
| 51.00 | 0.55 | 1.18 | 0.00 | 0.00 | 0.00 | 50.22 | 50.82 | 52.0 | 0.0 | 0.977 |
| 52.00 | 0.55 | 1.18 | 0.00 | 0.00 | 0.00 | 50.04 | 50.63 | 52.0 | 0.0 | 0.974 |
| 53.00 | 0.55 | 1.19 | 0.00 | 0.00 | 0.00 | 49.84 | 50.43 | 52.0 | 0.0 | 0.970 |
| 54.00 | 0.54 | 1.19 | 0.00 | 0.00 | 0.00 | 49.65 | 50.23 | 52.0 | 0.0 | 0.966 |
| 55.00 | 0.54 | 1.19 | 0.00 | 0.00 | 0.00 | 49.45 | 50.03 | 52.0 | 0.0 | 0.962 |
| 56.00 | 0.54 | 1.19 | 0.00 | 0.00 | 0.00 | 49.24 | 49.82 | 52.0 | 0.0 | 0.958 |
| 57.00 | 0.54 | 1.19 | 0.00 | 0.00 | 0.00 | 49.03 | 49.61 | 52.0 | 0.0 | 0.954 |
| 58.00 | 0.53 | 1.19 | 0.00 | 0.00 | 0.00 | 48.82 | 49.40 | 52.0 | 0.0 | 0.950 |
| 59.00 | 0.53 | 1.19 | 0.00 | 0.00 | 0.00 | 48.61 | 49.18 | 52.0 | 0.0 | 0.946 |
| 60.00 | 0.53 | 1.19 | 0.00 | 0.00 | 0.00 | 48.38 | 48.96 | 52.0 | 0.0 | 0.942 |
| 61.00 | 0.53 | 1.19 | 0.00 | 0.00 | 0.00 | 48.16 | 48.73 | 52.0 | 0.0 | 0.937 |
| 62.00 | 0.52 | 1.19 | 0.00 | 0.00 | 0.00 | 47.93 | 48.50 | 52.0 | 0.0 | 0.933 |
| 63.00 | 0.52 | 1.19 | 0.00 | 0.00 | 0.00 | 47.70 | 48.27 | 52.0 | 0.0 | 0.928 |
| 64.00 | 0.52 | 1.19 | 0.00 | 0.00 | 0.00 | 47.47 | 48.03 | 52.0 | 0.0 | 0.924 |
| 65.00 | 0.52 | 1.19 | 0.00 | 0.00 | 0.00 | 47.23 | 47.79 | 52.0 | 0.0 | 0.919 |
| 66.00 | 0.52 | 1.19 | 0.00 | 0.00 | 0.00 | 46.98 | 47.54 | 52.0 | 0.0 | 0.914 |
| 67.00 | 0.52 | 1.20 | 0.00 | 0.00 | 0.00 | 46.73 | 47.29 | 52.0 | 0.0 | 0.910 |
| 68.00 | 0.51 | 1.20 | 0.00 | 0.00 | 0.00 | 46.47 | 47.03 | 52.0 | 0.0 | 0.905 |
| 69.00 | 0.51 | 1.20 | 0.00 | 0.00 | 0.00 | 46.21 | 46.77 | 52.0 | 0.0 | 0.899 |
| 70.00 | 0.51 | 1.20 | 0.00 | 0.00 | 0.00 | 45.94 | 46.50 | 52.0 | 0.0 | 0.894 |
| 71.00 | 0.51 | 1.20 | 0.00 | 0.00 | 0.00 | 45.67 | 46.22 | 52.0 | 0.0 | 0.889 |
| 72.00 | 0.51 | 1.20 | 0.00 | 0.00 | 0.00 | 45.39 | 45.94 | 52.0 | 0.0 | 0.884 |
| 73.00 | 0.50 | 1.21 | 0.00 | 0.00 | 0.00 | 45.10 | 45.65 | 52.0 | 0.0 | 0.878 |
| 74.00 | 0.50 | 1.21 | 0.00 | 0.00 | 0.00 | 44.81 | 45.36 | 52.0 | 0.0 | 0.872 |
| 75.00 | 0.50 | 1.21 | 0.00 | 0.00 | 0.00 | 44.51 | 45.05 | 52.0 | 0.0 | 0.867 |
| 76.00 | 0.50 | 1.21 | 0.00 | 0.00 | 0.00 | 44.20 | 44.74 | 52.0 | 0.0 | 0.861 |
| 77.00 | 0.50 | 1.21 | 0.00 | 0.00 | 0.00 | 43.88 | 44.43 | 52.0 | 0.0 | 0.854 |
| 78.00 | 0.49 | 1.22 | 0.00 | 0.00 | 0.00 | 43.56 | 44.11 | 52.0 | 0.0 | 0.848 |
| 79.00 | 0.49 | 1.22 | 0.00 | 0.00 | 0.00 | 43.23 | 43.77 | 52.0 | 0.0 | 0.842 |
| 80.00 | 0.49 | 1.22 | 0.00 | 0.00 | 0.00 | 42.89 | 43.44 | 52.0 | 0.0 | 0.835 |
| 81.00 | 0.49 | 1.21 | 0.00 | 0.00 | 0.00 | 42.55 | 43.09 | 52.0 | 0.0 | 0.829 |
| 81.11 | 0.49 | 1.22 | 0.00 | 0.00 | 0.00 | 42.51 | 43.05 | 52.0 | 0.0 | 0.828 |
| 82.00 | 0.48 | 1.22 | 0.00 | 0.00 | 0.00 | 42.20 | 42.73 | 52.0 | 0.0 | 0.822 |
| 83.00 | 0.48 | 1.22 | 0.00 | 0.00 | 0.00 | 41.84 | 42.37 | 52.0 | 0.0 | 0.815 |
| 84.00 | 0.47 | 1.22 | 0.00 | 0.00 | 0.00 | 41.48 | 42.00 | 52.0 | 0.0 | 0.808 |
| 85.00 | 0.47 | 1.22 | 0.00 | 0.00 | 0.00 | 41.11 | 41.63 | 52.0 | 0.0 | 0.801 |
| 85.87 | 0.55 | 1.44 | 0.00 | 0.00 | 0.00 | 46.81 | 47.42 | 52.0 | 0.0 | 0.912 |
| 86.00 | 0.54 | 1.44 | 0.00 | 0.00 | 0.00 | 46.75 | 47.36 | 52.0 | 0.0 | 0.911 |
| 87.00 | 0.54 | 1.44 | 0.00 | 0.00 | 0.00 | 46.29 | 46.90 | 52.0 | 0.0 | 0.902 |
| 88.00 | 0.54 | 1.44 | 0.00 | 0.00 | 0.00 | 45.82 | 46.43 | 52.0 | 0.0 | 0.893 |
| 89.00 | 0.54 | 1.44 | 0.00 | 0.00 | 0.00 | 45.33 | 45.94 | 52.0 | 0.0 | 0.884 |
| 90.00 | 0.54 | 1.45 | 0.00 | 0.00 | 0.00 | 44.84 | 45.44 | 52.0 | 0.0 | 0.874 |
| 91.00 | 0.54 | 1.45 | 0.00 | 0.00 | 0.00 | 44.33 | 44.94 | 52.0 | 0.0 | 0.864 |
| 92.00 | 0.53 | 1.45 | 0.00 | 0.00 | 0.00 | 43.81 | 44.41 | 52.0 | 0.0 | 0.854 |
| 93.00 | 0.53 | 1.46 | 0.00 | 0.00 | 0.00 | 43.28 | 43.88 | 52.0 | 0.0 | 0.844 |
| 94.00 | 0.53 | 1.46 | 0.00 | 0.00 | 0.00 | 42.73 | 43.33 | 52.0 | 0.0 | 0.833 |
| 95.00 | 0.53 | 1.46 | 0.00 | 0.00 | 0.00 | 42.17 | 42.78 | 52.0 | 0.0 | 0.823 |
| 96.00 | 0.53 | 1.46 | 0.00 | 0.00 | 0.00 | 41.60 | 42.20 | 52.0 | 0.0 | 0.812 |
| 97.00 | 0.52 | 1.47 | 0.00 | 0.00 | 0.00 | 41.01 | 41.61 | 52.0 | 0.0 | 0.800 |
| 98.00 | 0.52 | 1.47 | 0.00 | 0.00 | 0.00 | 40.41 | 41.01 | 52.0 | 0.0 | 0.789 |
| 99.00 | 0.52 | 1.47 | 0.00 | 0.00 | 0.00 | 39.79 | 40.40 | 52.0 | 0.0 | 0.777 |
| 100.00 | 0.52 | 1.48 | 0.00 | 0.00 | 0.00 | 39.16 | 39.76 | 52.0 | 0.0 | 0.765 |
| 101.00 | 0.52 | 1.48 | 0.00 | 0.00 | 0.00 | 38.51 | 39.12 | 52.0 | 0.0 | 0.752 |
| 102.00 | 0.52 | 1.48 | 0.00 | 0.00 | 0.00 | 37.85 | 38.45 | 52.0 | 0.0 | 0.740 |
| 103.00 | 0.51 | 1.48 | 0.00 | 0.00 | 0.00 | 37.17 | 37.77 | 52.0 | 0.0 | 0.726 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

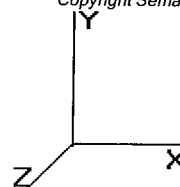
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: No Ice 85.00 mph Wind with No Ice 33 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

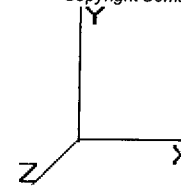
| | | | | | | | | | | |
|--------|------|------|------|------|------|-------|-------|------|-----|-------|
| 104.00 | 0.51 | 1.49 | 0.00 | 0.00 | 0.00 | 36.47 | 37.07 | 52.0 | 0.0 | 0.713 |
| 105.00 | 0.50 | 1.44 | 0.00 | 0.00 | 0.00 | 35.75 | 36.34 | 52.0 | 0.0 | 0.699 |
| 106.00 | 0.50 | 1.45 | 0.00 | 0.00 | 0.00 | 35.05 | 35.64 | 52.0 | 0.0 | 0.686 |
| 107.00 | 0.50 | 1.45 | 0.00 | 0.00 | 0.00 | 34.34 | 34.93 | 52.0 | 0.0 | 0.672 |
| 108.00 | 0.50 | 1.45 | 0.00 | 0.00 | 0.00 | 33.61 | 34.20 | 52.0 | 0.0 | 0.658 |
| 109.00 | 0.50 | 1.46 | 0.00 | 0.00 | 0.00 | 32.85 | 33.45 | 52.0 | 0.0 | 0.643 |
| 110.00 | 0.50 | 1.46 | 0.00 | 0.00 | 0.00 | 32.08 | 32.67 | 52.0 | 0.0 | 0.628 |
| 111.00 | 0.50 | 1.46 | 0.00 | 0.00 | 0.00 | 31.29 | 31.88 | 52.0 | 0.0 | 0.613 |
| 112.00 | 0.49 | 1.47 | 0.00 | 0.00 | 0.00 | 30.47 | 31.07 | 52.0 | 0.0 | 0.598 |
| 113.00 | 0.49 | 1.47 | 0.00 | 0.00 | 0.00 | 29.63 | 30.23 | 52.0 | 0.0 | 0.581 |
| 114.00 | 0.49 | 1.47 | 0.00 | 0.00 | 0.00 | 28.77 | 29.38 | 52.0 | 0.0 | 0.565 |
| 115.00 | 0.40 | 1.19 | 0.00 | 0.00 | 0.00 | 27.89 | 28.36 | 52.0 | 0.0 | 0.545 |
| 116.00 | 0.40 | 1.19 | 0.00 | 0.00 | 0.00 | 27.24 | 27.71 | 52.0 | 0.0 | 0.533 |
| 117.00 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 26.58 | 27.05 | 52.0 | 0.0 | 0.520 |
| 118.00 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 25.89 | 26.37 | 52.0 | 0.0 | 0.507 |
| 119.00 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 25.19 | 25.67 | 52.0 | 0.0 | 0.494 |
| 120.00 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 24.47 | 24.95 | 52.0 | 0.0 | 0.480 |
| 121.00 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 23.73 | 24.21 | 52.0 | 0.0 | 0.466 |
| 122.00 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 22.97 | 23.45 | 52.0 | 0.0 | 0.451 |
| 122.22 | 0.39 | 1.20 | 0.00 | 0.00 | 0.00 | 22.80 | 23.28 | 52.0 | 0.0 | 0.448 |
| 123.00 | 0.38 | 1.20 | 0.00 | 0.00 | 0.00 | 22.19 | 22.68 | 52.0 | 0.0 | 0.436 |
| 124.00 | 0.38 | 1.20 | 0.00 | 0.00 | 0.00 | 21.39 | 21.87 | 52.0 | 0.0 | 0.421 |
| 125.00 | 0.38 | 1.21 | 0.00 | 0.00 | 0.00 | 20.57 | 21.05 | 52.0 | 0.0 | 0.405 |
| 126.00 | 0.37 | 1.21 | 0.00 | 0.00 | 0.00 | 19.72 | 20.21 | 52.0 | 0.0 | 0.389 |
| 126.40 | 0.61 | 1.97 | 0.00 | 0.00 | 0.00 | 30.85 | 31.65 | 48.9 | 0.0 | 0.647 |
| 127.00 | 0.61 | 1.97 | 0.00 | 0.00 | 0.00 | 30.02 | 30.82 | 49.1 | 0.0 | 0.628 |
| 128.00 | 0.61 | 1.98 | 0.00 | 0.00 | 0.00 | 28.58 | 29.39 | 49.3 | 0.0 | 0.596 |
| 129.00 | 0.61 | 1.98 | 0.00 | 0.00 | 0.00 | 27.11 | 27.93 | 49.5 | 0.0 | 0.564 |
| 130.00 | 0.49 | 1.58 | 0.00 | 0.00 | 0.00 | 25.59 | 26.22 | 49.8 | 0.0 | 0.527 |
| 131.00 | 0.49 | 1.58 | 0.00 | 0.00 | 0.00 | 24.44 | 25.08 | 50.0 | 0.0 | 0.502 |
| 132.00 | 0.49 | 1.58 | 0.00 | 0.00 | 0.00 | 23.26 | 23.90 | 50.2 | 0.0 | 0.476 |
| 133.00 | 0.49 | 1.58 | 0.00 | 0.00 | 0.00 | 22.05 | 22.70 | 50.5 | 0.0 | 0.450 |
| 134.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 20.80 | 21.46 | 50.7 | 0.0 | 0.423 |
| 135.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 19.52 | 20.19 | 50.9 | 0.0 | 0.396 |
| 136.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 18.20 | 18.89 | 51.2 | 0.0 | 0.369 |
| 137.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 16.85 | 17.55 | 51.4 | 0.0 | 0.341 |
| 138.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 15.46 | 16.17 | 51.7 | 0.0 | 0.313 |
| 139.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 14.02 | 14.76 | 51.9 | 0.0 | 0.284 |
| 140.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 12.55 | 13.31 | 52.0 | 0.0 | 0.256 |
| 141.00 | 0.48 | 1.58 | 0.00 | 0.00 | 0.00 | 11.03 | 11.83 | 52.0 | 0.0 | 0.228 |
| 142.00 | 0.31 | 0.92 | 0.00 | 0.00 | 0.00 | 9.46 | 9.90 | 52.0 | 0.0 | 0.190 |
| 143.00 | 0.31 | 0.91 | 0.00 | 0.00 | 0.00 | 8.61 | 9.06 | 52.0 | 0.0 | 0.174 |
| 144.00 | 0.31 | 0.91 | 0.00 | 0.00 | 0.00 | 7.73 | 8.19 | 52.0 | 0.0 | 0.158 |
| 145.00 | 0.31 | 0.90 | 0.00 | 0.00 | 0.00 | 6.83 | 7.31 | 52.0 | 0.0 | 0.141 |
| 146.00 | 0.31 | 0.90 | 0.00 | 0.00 | 0.00 | 5.91 | 6.41 | 52.0 | 0.0 | 0.123 |
| 146.00 | 0.14 | 0.40 | 0.00 | 0.00 | 0.00 | 3.20 | 3.41 | 33.6 | 0.0 | 0.101 |
| 147.00 | 0.13 | 0.39 | 0.00 | 0.00 | 0.00 | 2.63 | 2.85 | 33.6 | 0.0 | 0.085 |
| 148.00 | 0.13 | 0.39 | 0.00 | 0.00 | 0.00 | 2.08 | 2.31 | 33.6 | 0.0 | 0.069 |
| 149.00 | 0.13 | 0.38 | 0.00 | 0.00 | 0.00 | 1.53 | 1.79 | 33.6 | 0.0 | 0.053 |
| 150.00 | 0.03 | 0.08 | 0.00 | 0.00 | 0.00 | 0.96 | 1.00 | 33.6 | 0.0 | 0.030 |
| 151.00 | 0.03 | 0.07 | 0.00 | 0.00 | 0.00 | 0.85 | 0.89 | 33.6 | 0.0 | 0.026 |
| 152.00 | 0.02 | 0.07 | 0.00 | 0.00 | 0.00 | 0.75 | 0.78 | 33.6 | 0.0 | 0.023 |
| 153.00 | 0.02 | 0.06 | 0.00 | 0.00 | 0.00 | 0.66 | 0.69 | 33.6 | 0.0 | 0.020 |
| 154.00 | 0.02 | 0.05 | 0.00 | 0.00 | 0.00 | 0.57 | 0.60 | 33.6 | 0.0 | 0.018 |
| 155.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.50 | 0.51 | 33.6 | 0.0 | 0.015 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Shaft Segment Forces

| Seg Top Elev (ft) | Description | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-------------------|-----------------|------|-------------|--------------|------------|------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 0.00 | 1.00 13.871 | 23.44 306.70 | 1.030 | 0.50 | 0.00 | 0.000 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 |
| 1.00 | | 0.00 | 1.00 13.871 | 23.44 305.41 | 1.030 | 0.50 | 1.00 | 4.241 | 4.37 | 102.4 | 31.5 | 268.6 | |
| 2.00 | | 0.00 | 1.00 13.871 | 23.44 304.12 | 1.030 | 0.50 | 1.00 | 4.224 | 4.35 | 102.0 | 31.4 | 267.4 | |
| 3.00 | | 0.00 | 1.00 13.871 | 23.44 302.83 | 1.030 | 0.50 | 1.00 | 4.206 | 4.33 | 101.6 | 31.2 | 266.3 | |
| 4.00 | | 0.00 | 1.00 13.871 | 23.44 301.54 | 1.030 | 0.50 | 1.00 | 4.189 | 4.31 | 101.1 | 31.1 | 265.1 | |
| 5.00 | | 0.00 | 1.00 13.871 | 23.44 300.24 | 1.030 | 0.50 | 1.00 | 4.171 | 4.30 | 100.7 | 31.0 | 264.0 | |
| 6.00 | | 0.00 | 1.00 13.871 | 23.44 298.95 | 1.030 | 0.50 | 1.00 | 4.153 | 4.28 | 100.3 | 30.8 | 262.9 | |
| 7.00 | | 0.00 | 1.00 13.871 | 23.44 297.66 | 1.030 | 0.50 | 1.00 | 4.136 | 4.26 | 99.9 | 30.7 | 261.7 | |
| 8.00 | | 0.00 | 1.00 13.871 | 23.44 296.37 | 1.030 | 0.50 | 1.00 | 4.118 | 4.24 | 99.4 | 30.6 | 260.6 | |
| 9.00 | | 0.00 | 1.00 13.871 | 23.44 295.08 | 1.030 | 0.50 | 1.00 | 4.101 | 4.22 | 99.0 | 30.4 | 259.4 | |
| 10.00 | | 0.00 | 1.00 13.871 | 23.44 293.78 | 1.030 | 0.50 | 1.00 | 4.083 | 4.21 | 98.6 | 30.3 | 258.3 | |
| 11.00 | | 0.00 | 1.00 13.871 | 23.44 292.49 | 1.030 | 0.50 | 1.00 | 4.066 | 4.19 | 98.2 | 30.2 | 257.2 | |
| 12.00 | | 0.00 | 1.00 13.871 | 23.44 291.20 | 1.030 | 0.50 | 1.00 | 4.048 | 4.17 | 97.7 | 30.0 | 256.0 | |
| 13.00 | | 0.00 | 1.00 13.871 | 23.44 289.91 | 1.030 | 0.50 | 1.00 | 4.031 | 4.15 | 97.3 | 29.9 | 254.9 | |
| 14.00 | | 0.00 | 1.00 13.871 | 23.44 288.62 | 1.030 | 0.50 | 1.00 | 4.013 | 4.13 | 96.9 | 29.8 | 253.7 | |
| 15.00 | Annertunance(s) | 0.00 | 1.00 13.871 | 23.44 287.32 | 1.030 | 0.50 | 1.00 | 3.996 | 4.12 | 96.5 | 29.6 | 252.6 | |
| 16.00 | | 0.00 | 1.00 13.871 | 23.44 286.03 | 1.030 | 0.50 | 1.00 | 3.978 | 4.10 | 96.0 | 29.5 | 251.4 | |
| 17.00 | | 0.00 | 1.00 13.871 | 23.44 284.74 | 1.030 | 0.50 | 1.00 | 3.960 | 4.08 | 95.6 | 29.4 | 250.3 | |
| 18.00 | | 0.00 | 1.00 13.871 | 23.44 283.45 | 1.030 | 0.50 | 1.00 | 3.943 | 4.06 | 95.2 | 29.2 | 249.2 | |
| 19.00 | | 0.00 | 1.00 13.871 | 23.44 282.16 | 1.030 | 0.50 | 1.00 | 3.925 | 4.04 | 94.8 | 29.1 | 248.0 | |
| 20.00 | | 0.00 | 1.00 13.871 | 23.44 280.86 | 1.030 | 0.50 | 1.00 | 3.908 | 4.02 | 94.4 | 29.0 | 246.9 | |
| 21.00 | | 0.00 | 1.00 13.871 | 23.44 279.57 | 1.030 | 0.50 | 1.00 | 3.890 | 4.01 | 93.9 | 28.8 | 245.7 | |
| 22.00 | | 0.00 | 1.00 13.871 | 23.44 278.28 | 1.030 | 0.50 | 1.00 | 3.873 | 3.99 | 93.5 | 28.7 | 244.6 | |
| 23.00 | | 0.00 | 1.00 13.871 | 23.44 276.99 | 1.030 | 0.50 | 1.00 | 3.855 | 3.97 | 93.1 | 28.6 | 243.5 | |
| 24.00 | | 0.00 | 1.00 13.871 | 23.44 275.70 | 1.030 | 0.50 | 1.00 | 3.838 | 3.95 | 92.7 | 28.5 | 242.3 | |
| 25.00 | | 0.00 | 1.00 13.871 | 23.44 274.40 | 1.030 | 0.50 | 1.00 | 3.820 | 3.93 | 92.2 | 28.3 | 241.2 | |
| 26.00 | | 0.00 | 1.00 13.871 | 23.44 273.11 | 1.030 | 0.50 | 1.00 | 3.802 | 3.92 | 91.8 | 28.2 | 240.0 | |
| 27.00 | | 0.00 | 1.00 13.871 | 23.44 271.82 | 1.030 | 0.50 | 1.00 | 3.785 | 3.90 | 91.4 | 28.1 | 238.9 | |
| 28.00 | | 0.00 | 1.00 13.871 | 23.44 270.53 | 1.030 | 0.50 | 1.00 | 3.767 | 3.88 | 91.0 | 27.9 | 237.7 | |
| 29.00 | | 0.00 | 1.00 13.871 | 23.44 269.24 | 1.030 | 0.50 | 1.00 | 3.750 | 3.86 | 90.5 | 27.8 | 236.6 | |
| 30.00 | | 0.00 | 1.00 13.871 | 23.44 267.94 | 1.030 | 0.50 | 1.00 | 3.732 | 3.84 | 90.1 | 27.7 | 235.5 | |
| 31.00 | | 0.00 | 1.00 13.871 | 23.44 266.65 | 1.030 | 0.50 | 1.00 | 3.715 | 3.83 | 89.7 | 27.5 | 234.3 | |
| 32.00 | | 0.00 | 1.00 13.871 | 23.44 265.36 | 1.030 | 0.50 | 1.00 | 3.697 | 3.81 | 89.3 | 27.4 | 233.2 | |
| 33.00 | | 0.00 | 1.00 13.871 | 23.44 264.07 | 1.030 | 0.50 | 1.00 | 3.680 | 3.79 | 88.8 | 27.3 | 232.0 | |
| 34.00 | | 0.00 | 1.00 13.990 | 23.64 263.90 | 1.030 | 0.50 | 1.00 | 3.662 | 3.77 | 89.2 | 27.1 | 230.9 | |
| 35.00 | | 0.00 | 1.01 14.106 | 23.84 263.69 | 1.030 | 0.50 | 1.00 | 3.644 | 3.75 | 89.5 | 27.0 | 229.8 | |
| 36.00 | | 0.00 | 1.02 14.220 | 24.03 263.45 | 1.030 | 0.50 | 1.00 | 3.627 | 3.74 | 89.8 | 26.9 | 228.6 | |
| 37.00 | | 0.00 | 1.03 14.332 | 24.22 263.17 | 1.030 | 0.50 | 1.00 | 3.609 | 3.72 | 90.0 | 26.7 | 227.5 | |
| 38.00 | | 0.00 | 1.04 14.442 | 24.40 262.85 | 1.030 | 0.50 | 1.00 | 3.592 | 3.70 | 90.3 | 26.6 | 226.3 | |
| 39.00 | | 0.00 | 1.04 14.549 | 24.58 262.51 | 1.030 | 0.50 | 1.00 | 3.574 | 3.68 | 90.5 | 26.5 | 225.2 | |
| 40.00 | | 0.00 | 1.05 14.655 | 24.76 262.13 | 1.030 | 0.50 | 1.00 | 3.557 | 3.66 | 90.7 | 26.3 | 224.0 | |
| 40.57 | Bot - Section 2 | 0.00 | 1.06 14.714 | 24.86 261.90 | 1.030 | 0.50 | 0.57 | 2.022 | 2.08 | 51.8 | 15.0 | 127.4 | |
| 41.00 | | 0.00 | 1.06 14.759 | 24.94 261.72 | 1.030 | 0.50 | 0.43 | 1.544 | 1.59 | 39.7 | 11.5 | 169.5 | |
| 42.00 | | 0.00 | 1.07 14.861 | 25.11 261.29 | 1.030 | 0.50 | 1.00 | 3.584 | 3.69 | 92.7 | 26.5 | 393.3 | |
| 43.00 | | 0.00 | 1.07 14.961 | 25.28 260.83 | 1.030 | 0.50 | 1.00 | 3.567 | 3.67 | 92.9 | 26.4 | 391.3 | |
| 44.00 | | 0.00 | 1.08 15.059 | 25.45 260.34 | 1.030 | 0.50 | 1.00 | 3.549 | 3.66 | 93.0 | 26.3 | 389.3 | |
| 45.00 | | 0.00 | 1.09 15.156 | 25.61 259.83 | 1.030 | 0.50 | 1.00 | 3.531 | 3.64 | 93.2 | 26.2 | 387.3 | |
| 45.73 | Top - Section 1 | 0.00 | 1.09 15.226 | 25.73 259.44 | 1.030 | 0.50 | 0.73 | 2.567 | 2.64 | 68.0 | 19.0 | 281.4 | |
| 46.00 | | 0.00 | 1.10 15.252 | 25.77 264.11 | 1.030 | 0.50 | 0.27 | 0.947 | 0.98 | 25.2 | 7.0 | 52.2 | |
| 47.00 | | 0.00 | 1.10 15.346 | 25.93 263.57 | 1.030 | 0.50 | 1.00 | 3.496 | 3.60 | 93.4 | 25.9 | 192.6 | |
| 48.00 | | 0.00 | 1.11 15.439 | 26.09 263.00 | 1.030 | 0.50 | 1.00 | 3.479 | 3.58 | 93.5 | 25.8 | 191.6 | |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

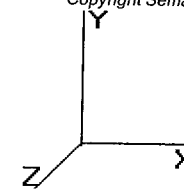
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | | | | | |
|-------|-----------------|------|------|--------|-------|--------|-------|------|------|-------|------|------|------|-------|
| 49.00 | | 0.00 | 1.12 | 15.530 | 26.24 | 262.41 | 1.030 | 0.50 | 1.00 | 3.461 | 3.57 | 93.6 | 25.6 | 190.6 |
| 50.00 | | 0.00 | 1.12 | 15.620 | 26.39 | 261.79 | 1.030 | 0.50 | 1.00 | 3.444 | 3.55 | 93.6 | 25.5 | 189.6 |
| 51.00 | | 0.00 | 1.13 | 15.708 | 26.54 | 261.16 | 1.030 | 0.50 | 1.00 | 3.426 | 3.53 | 93.7 | 25.4 | 188.6 |
| 52.00 | | 0.00 | 1.13 | 15.796 | 26.69 | 260.51 | 1.030 | 0.50 | 1.00 | 3.409 | 3.51 | 93.7 | 25.2 | 187.6 |
| 53.00 | | 0.00 | 1.14 | 15.882 | 26.84 | 259.84 | 1.030 | 0.50 | 1.00 | 3.391 | 3.49 | 93.7 | 25.1 | 186.6 |
| 54.00 | | 0.00 | 1.15 | 15.967 | 26.98 | 259.14 | 1.030 | 0.50 | 1.00 | 3.374 | 3.47 | 93.8 | 25.0 | 185.7 |
| 55.00 | Appertunance(s) | 0.00 | 1.15 | 16.051 | 27.12 | 258.43 | 1.030 | 0.50 | 1.00 | 3.356 | 3.46 | 93.8 | 24.8 | 184.7 |
| 56.00 | | 0.00 | 1.16 | 16.134 | 27.26 | 257.71 | 1.030 | 0.50 | 1.00 | 3.338 | 3.44 | 93.8 | 24.7 | 183.7 |
| 57.00 | | 0.00 | 1.16 | 16.215 | 27.40 | 256.96 | 1.030 | 0.50 | 1.00 | 3.321 | 3.42 | 93.7 | 24.6 | 182.7 |
| 58.00 | | 0.00 | 1.17 | 16.296 | 27.54 | 256.20 | 1.030 | 0.50 | 1.00 | 3.303 | 3.40 | 93.7 | 24.4 | 181.7 |
| 59.00 | | 0.00 | 1.18 | 16.376 | 27.67 | 255.42 | 1.030 | 0.50 | 1.00 | 3.286 | 3.38 | 93.7 | 24.3 | 180.7 |
| 60.00 | | 0.00 | 1.18 | 16.455 | 27.80 | 254.63 | 1.030 | 0.50 | 1.00 | 3.268 | 3.37 | 93.6 | 24.2 | 179.7 |
| 61.00 | Appertunance(s) | 0.00 | 1.19 | 16.533 | 27.94 | 253.82 | 1.030 | 0.50 | 1.00 | 3.251 | 3.35 | 93.5 | 24.0 | 178.7 |
| 62.00 | | 0.00 | 1.19 | 16.610 | 28.07 | 253.00 | 1.030 | 0.50 | 1.00 | 3.233 | 3.33 | 93.5 | 23.9 | 177.7 |
| 63.00 | | 0.00 | 1.20 | 16.686 | 28.19 | 252.16 | 1.030 | 0.50 | 1.00 | 3.216 | 3.31 | 93.4 | 23.8 | 176.7 |
| 64.00 | | 0.00 | 1.20 | 16.761 | 28.32 | 251.31 | 1.030 | 0.50 | 1.00 | 3.198 | 3.29 | 93.3 | 23.6 | 175.7 |
| 65.00 | | 0.00 | 1.21 | 16.836 | 28.45 | 250.44 | 1.030 | 0.50 | 1.00 | 3.180 | 3.28 | 93.2 | 23.5 | 174.7 |
| 66.00 | | 0.00 | 1.21 | 16.909 | 28.57 | 249.56 | 1.030 | 0.50 | 1.00 | 3.163 | 3.26 | 93.1 | 23.4 | 173.7 |
| 67.00 | | 0.00 | 1.22 | 16.982 | 28.69 | 248.67 | 1.030 | 0.50 | 1.00 | 3.145 | 3.24 | 93.0 | 23.3 | 172.7 |
| 68.00 | | 0.00 | 1.22 | 17.054 | 28.82 | 247.76 | 1.030 | 0.50 | 1.00 | 3.128 | 3.22 | 92.9 | 23.1 | 171.7 |
| 69.00 | | 0.00 | 1.23 | 17.125 | 28.94 | 246.85 | 1.030 | 0.50 | 1.00 | 3.110 | 3.20 | 92.7 | 23.0 | 170.7 |
| 70.00 | | 0.00 | 1.24 | 17.196 | 29.06 | 245.92 | 1.030 | 0.50 | 1.00 | 3.093 | 3.19 | 92.6 | 22.9 | 169.7 |
| 71.00 | | 0.00 | 1.24 | 17.266 | 29.17 | 244.97 | 1.030 | 0.50 | 1.00 | 3.075 | 3.17 | 92.4 | 22.7 | 168.7 |
| 72.00 | | 0.00 | 1.25 | 17.335 | 29.29 | 244.02 | 1.030 | 0.50 | 1.00 | 3.058 | 3.15 | 92.3 | 22.6 | 167.7 |
| 73.00 | | 0.00 | 1.25 | 17.403 | 29.41 | 243.05 | 1.030 | 0.50 | 1.00 | 3.040 | 3.13 | 92.1 | 22.5 | 166.7 |
| 74.00 | | 0.00 | 1.26 | 17.471 | 29.52 | 242.08 | 1.030 | 0.50 | 1.00 | 3.022 | 3.11 | 91.9 | 22.3 | 165.7 |
| 75.00 | | 0.00 | 1.26 | 17.538 | 29.63 | 241.09 | 1.030 | 0.50 | 1.00 | 3.005 | 3.10 | 91.7 | 22.2 | 164.7 |
| 76.00 | | 0.00 | 1.26 | 17.605 | 29.75 | 240.09 | 1.030 | 0.50 | 1.00 | 2.987 | 3.08 | 91.5 | 22.1 | 163.7 |
| 77.00 | | 0.00 | 1.27 | 17.670 | 29.86 | 239.08 | 1.030 | 0.50 | 1.00 | 2.970 | 3.06 | 91.3 | 21.9 | 162.7 |
| 78.00 | | 0.00 | 1.27 | 17.736 | 29.97 | 238.06 | 1.030 | 0.50 | 1.00 | 2.952 | 3.04 | 91.1 | 21.8 | 161.7 |
| 79.00 | | 0.00 | 1.28 | 17.800 | 30.08 | 237.03 | 1.030 | 0.50 | 1.00 | 2.935 | 3.02 | 90.9 | 21.7 | 160.7 |
| 80.00 | | 0.00 | 1.28 | 17.865 | 30.19 | 235.99 | 1.030 | 0.50 | 1.00 | 2.917 | 3.00 | 90.7 | 21.5 | 159.7 |
| 81.00 | Appertunance(s) | 0.00 | 1.29 | 17.928 | 30.29 | 234.94 | 1.030 | 0.50 | 1.00 | 2.900 | 2.99 | 90.5 | 21.4 | 158.7 |
| 81.11 | Bot - Section 3 | 0.00 | 1.29 | 17.935 | 30.31 | 234.82 | 1.030 | 0.50 | 0.11 | 0.327 | 0.34 | 10.2 | 2.4 | 17.9 |
| 82.00 | | 0.00 | 1.29 | 17.991 | 30.40 | 233.88 | 1.030 | 0.50 | 0.89 | 2.601 | 2.68 | 81.5 | 19.2 | 243.1 |
| 83.00 | | 0.00 | 1.30 | 18.053 | 30.51 | 232.81 | 1.030 | 0.50 | 1.00 | 2.917 | 3.00 | 91.7 | 21.5 | 272.5 |
| 84.00 | | 0.00 | 1.30 | 18.115 | 30.61 | 231.74 | 1.030 | 0.50 | 1.00 | 2.899 | 2.99 | 91.4 | 21.4 | 270.7 |
| 85.00 | | 0.00 | 1.31 | 18.177 | 30.71 | 230.65 | 1.030 | 0.50 | 1.00 | 2.881 | 2.97 | 91.2 | 21.3 | 269.0 |
| 85.87 | Top - Section 2 | 0.00 | 1.31 | 18.230 | 30.80 | 229.70 | 1.030 | 0.50 | 0.87 | 2.494 | 2.57 | 79.2 | 18.4 | 232.8 |
| 86.00 | | 0.00 | 1.31 | 18.237 | 30.82 | 233.95 | 1.030 | 0.50 | 0.13 | 0.369 | 0.38 | 11.7 | 2.7 | 17.3 |
| 87.00 | | 0.00 | 1.31 | 18.298 | 30.92 | 232.85 | 1.030 | 0.50 | 1.00 | 2.846 | 2.93 | 90.7 | 21.0 | 133.5 |
| 88.00 | | 0.00 | 1.32 | 18.358 | 31.02 | 231.75 | 1.030 | 0.50 | 1.00 | 2.829 | 2.91 | 90.4 | 20.9 | 132.6 |
| 89.00 | | 0.00 | 1.32 | 18.417 | 31.12 | 230.63 | 1.030 | 0.50 | 1.00 | 2.811 | 2.90 | 90.1 | 20.7 | 131.8 |
| 90.00 | | 0.00 | 1.33 | 18.476 | 31.22 | 229.51 | 1.030 | 0.50 | 1.00 | 2.794 | 2.88 | 89.8 | 20.6 | 130.9 |
| 91.00 | | 0.00 | 1.33 | 18.534 | 31.32 | 228.38 | 1.030 | 0.50 | 1.00 | 2.776 | 2.86 | 89.6 | 20.5 | 130.1 |
| 92.00 | | 0.00 | 1.34 | 18.592 | 31.42 | 227.24 | 1.030 | 0.50 | 1.00 | 2.759 | 2.84 | 89.3 | 20.3 | 129.2 |
| 93.00 | | 0.00 | 1.34 | 18.650 | 31.51 | 226.09 | 1.030 | 0.50 | 1.00 | 2.741 | 2.82 | 89.0 | 20.2 | 128.3 |
| 94.00 | | 0.00 | 1.34 | 18.707 | 31.61 | 224.94 | 1.030 | 0.50 | 1.00 | 2.724 | 2.81 | 88.7 | 20.1 | 127.5 |
| 95.00 | | 0.00 | 1.35 | 18.764 | 31.71 | 223.78 | 1.030 | 0.50 | 1.00 | 2.706 | 2.79 | 88.4 | 20.0 | 126.6 |
| 96.00 | | 0.00 | 1.35 | 18.820 | 31.80 | 222.61 | 1.030 | 0.50 | 1.00 | 2.688 | 2.77 | 88.1 | 19.8 | 125.8 |
| 97.00 | | 0.00 | 1.36 | 18.876 | 31.90 | 221.43 | 1.030 | 0.50 | 1.00 | 2.671 | 2.75 | 87.8 | 19.7 | 124.9 |
| 98.00 | | 0.00 | 1.36 | 18.931 | 31.99 | 220.24 | 1.030 | 0.50 | 1.00 | 2.653 | 2.73 | 87.4 | 19.6 | 124.1 |
| 99.00 | | 0.00 | 1.36 | 18.986 | 32.08 | 219.05 | 1.030 | 0.50 | 1.00 | 2.636 | 2.71 | 87.1 | 19.4 | 123.2 |
| 100.0 | | 0.00 | 1.37 | 19.041 | 32.17 | 217.85 | 1.030 | 0.50 | 1.00 | 2.618 | 2.70 | 86.8 | 19.3 | 122.4 |
| 101.0 | | 0.00 | 1.37 | 19.095 | 32.27 | 216.65 | 1.030 | 0.50 | 1.00 | 2.601 | 2.68 | 86.4 | 19.2 | 121.5 |
| 102.0 | | 0.00 | 1.38 | 19.149 | 32.36 | 215.43 | 1.030 | 0.50 | 1.00 | 2.583 | 2.66 | 86.1 | 19.0 | 120.7 |
| 103.0 | | 0.00 | 1.38 | 19.202 | 32.45 | 214.21 | 1.030 | 0.50 | 1.00 | 2.566 | 2.64 | 85.8 | 18.9 | 119.8 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

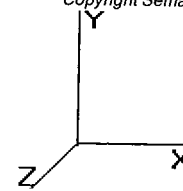
Code: TIA/EIA-222 Rev F

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Page: 29

Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | | | | | |
|-------|-----------------|------|------|--------|-------|---------|-------|--------|------|-------|------|----------|---------|----------|
| 104.0 | | 0.00 | 1.38 | 19.255 | 32.54 | 212.99 | 1.030 | 0.50 | 1.00 | 2.548 | 2.62 | 85.4 | 18.8 | 119.0 |
| 105.0 | Appertunance(s) | 0.00 | 1.39 | 19.308 | 32.63 | 211.76 | 1.030 | 0.50 | 1.00 | 2.530 | 2.61 | 85.0 | 18.6 | 118.1 |
| 106.0 | | 0.00 | 1.39 | 19.360 | 32.71 | 210.52 | 1.030 | 0.50 | 1.00 | 2.513 | 2.59 | 84.7 | 18.5 | 117.3 |
| 107.0 | | 0.00 | 1.39 | 19.412 | 32.80 | 209.27 | 1.030 | 0.50 | 1.00 | 2.495 | 2.57 | 84.3 | 18.4 | 116.4 |
| 108.0 | | 0.00 | 1.40 | 19.464 | 32.89 | 208.02 | 1.030 | 0.50 | 1.00 | 2.478 | 2.55 | 84.0 | 18.2 | 115.6 |
| 109.0 | | 0.00 | 1.40 | 19.515 | 32.98 | 206.76 | 1.030 | 0.50 | 1.00 | 2.460 | 2.53 | 83.6 | 18.1 | 114.7 |
| 110.0 | | 0.00 | 1.41 | 19.566 | 33.06 | 205.50 | 1.030 | 0.50 | 1.00 | 2.443 | 2.52 | 83.2 | 18.0 | 113.8 |
| 111.0 | | 0.00 | 1.41 | 19.617 | 33.15 | 204.22 | 1.030 | 0.50 | 1.00 | 2.425 | 2.50 | 82.8 | 17.8 | 113.0 |
| 112.0 | | 0.00 | 1.41 | 19.667 | 33.23 | 202.95 | 1.030 | 0.50 | 1.00 | 2.408 | 2.48 | 82.4 | 17.7 | 112.1 |
| 113.0 | | 0.00 | 1.42 | 19.717 | 33.32 | 201.67 | 1.030 | 0.50 | 1.00 | 2.390 | 2.46 | 82.0 | 17.6 | 111.3 |
| 114.0 | | 0.00 | 1.42 | 19.767 | 33.40 | 200.38 | 1.030 | 0.50 | 1.00 | 2.373 | 2.44 | 81.6 | 17.4 | 110.4 |
| 115.0 | Appertunance(s) | 0.00 | 1.42 | 19.816 | 33.49 | 199.08 | 1.030 | 0.50 | 1.00 | 2.355 | 2.43 | 81.2 | 17.3 | 109.6 |
| 116.0 | | 0.00 | 1.43 | 19.865 | 33.57 | 197.78 | 1.030 | 0.50 | 1.00 | 2.337 | 2.41 | 80.8 | 17.2 | 108.7 |
| 117.0 | | 0.00 | 1.43 | 19.914 | 33.65 | 196.48 | 1.030 | 0.50 | 1.00 | 2.320 | 2.39 | 80.4 | 17.1 | 107.9 |
| 118.0 | | 0.00 | 1.43 | 19.963 | 33.73 | 195.17 | 1.030 | 0.50 | 1.00 | 2.302 | 2.37 | 80.0 | 16.9 | 107.0 |
| 119.0 | | 0.00 | 1.44 | 20.011 | 33.81 | 193.85 | 1.030 | 0.50 | 1.00 | 2.285 | 2.35 | 79.6 | 16.8 | 106.2 |
| 120.0 | | 0.00 | 1.44 | 20.059 | 33.89 | 192.53 | 1.030 | 0.50 | 1.00 | 2.267 | 2.34 | 79.2 | 16.7 | 105.3 |
| 121.0 | | 0.00 | 1.45 | 20.106 | 33.98 | 191.20 | 1.030 | 0.50 | 1.00 | 2.250 | 2.32 | 78.7 | 16.5 | 104.5 |
| 122.0 | | 0.00 | 1.45 | 20.154 | 34.06 | 189.87 | 1.030 | 0.50 | 1.00 | 2.232 | 2.30 | 78.3 | 16.4 | 103.6 |
| 122.2 | Bot - Section 4 | 0.00 | 1.45 | 20.164 | 34.07 | 189.58 | 1.030 | 0.50 | 0.22 | 0.489 | 0.50 | 17.2 | 3.6 | 22.7 |
| 123.0 | | 0.00 | 1.45 | 20.201 | 34.13 | 188.53 | 1.030 | 0.50 | 0.78 | 1.750 | 1.80 | 61.5 | 12.9 | 121.5 |
| 124.0 | | 0.00 | 1.46 | 20.248 | 34.21 | 187.19 | 1.030 | 0.50 | 1.00 | 2.228 | 2.30 | 78.5 | 16.4 | 154.6 |
| 125.0 | | 0.00 | 1.46 | 20.294 | 34.29 | 185.84 | 1.030 | 0.50 | 1.00 | 2.211 | 2.28 | 78.1 | 16.2 | 153.3 |
| 126.0 | | 0.00 | 1.46 | 20.340 | 34.37 | 184.49 | 1.030 | 0.50 | 1.00 | 2.193 | 2.26 | 77.7 | 16.1 | 152.1 |
| 126.4 | Top - Section 3 | 0.00 | 1.46 | 20.359 | 34.40 | 183.94 | 1.030 | 0.50 | 0.40 | 0.879 | 0.91 | 31.1 | 6.5 | 60.9 |
| 127.0 | | 0.00 | 1.47 | 20.386 | 34.45 | 185.92 | 1.030 | 0.50 | 0.60 | 1.297 | 1.34 | 46.0 | 9.5 | 40.0 |
| 128.0 | | 0.00 | 1.47 | 20.432 | 34.53 | 184.56 | 1.030 | 0.50 | 1.00 | 2.158 | 2.22 | 76.8 | 15.8 | 66.6 |
| 129.0 | | 0.00 | 1.47 | 20.478 | 34.60 | 183.20 | 1.030 | 0.50 | 1.00 | 2.140 | 2.20 | 76.3 | 15.7 | 66.0 |
| 130.0 | Appertunance(s) | 0.00 | 1.48 | 20.523 | 34.68 | 181.83 | 1.030 | 0.50 | 1.00 | 2.123 | 2.19 | 75.8 | 15.6 | 65.5 |
| 131.0 | | 0.00 | 1.48 | 20.568 | 34.75 | 180.45 | 1.030 | 0.50 | 1.00 | 2.105 | 2.17 | 75.4 | 15.4 | 64.9 |
| 132.0 | | 0.00 | 1.48 | 20.612 | 34.83 | 179.07 | 1.030 | 0.50 | 1.00 | 2.088 | 2.15 | 74.9 | 15.3 | 64.3 |
| 133.0 | | 0.00 | 1.48 | 20.657 | 34.91 | 177.69 | 1.030 | 0.50 | 1.00 | 2.070 | 2.13 | 74.4 | 15.2 | 63.8 |
| 134.0 | | 0.00 | 1.49 | 20.701 | 34.98 | 176.30 | 1.030 | 0.50 | 1.00 | 2.053 | 2.11 | 74.0 | 15.0 | 63.2 |
| 135.0 | | 0.00 | 1.49 | 20.745 | 35.05 | 174.91 | 1.030 | 0.50 | 1.00 | 2.035 | 2.10 | 73.5 | 14.9 | 62.6 |
| 136.0 | | 0.00 | 1.49 | 20.789 | 35.13 | 173.51 | 1.030 | 0.50 | 1.00 | 2.018 | 2.08 | 73.0 | 14.8 | 62.1 |
| 137.0 | | 0.00 | 1.50 | 20.833 | 35.20 | 172.11 | 1.030 | 0.50 | 1.00 | 2.000 | 2.06 | 72.5 | 14.6 | 61.5 |
| 138.0 | | 0.00 | 1.50 | 20.876 | 35.28 | 170.71 | 1.030 | 0.50 | 1.00 | 1.983 | 2.04 | 72.0 | 14.5 | 61.0 |
| 139.0 | | 0.00 | 1.50 | 20.919 | 35.35 | 169.30 | 1.030 | 0.50 | 1.00 | 1.965 | 2.02 | 71.6 | 14.4 | 60.4 |
| 140.0 | | 0.00 | 1.51 | 20.962 | 35.42 | 167.88 | 1.030 | 0.50 | 1.00 | 1.947 | 2.01 | 71.1 | 14.3 | 59.8 |
| 141.0 | | 0.00 | 1.51 | 21.005 | 35.49 | 166.46 | 1.030 | 0.50 | 1.00 | 1.930 | 1.99 | 70.6 | 14.1 | 59.3 |
| 142.0 | Appertunance(s) | 0.00 | 1.51 | 21.047 | 35.56 | 165.04 | 1.030 | 0.50 | 1.00 | 1.912 | 1.97 | 70.1 | 14.0 | 58.7 |
| 143.0 | | 0.00 | 1.52 | 21.089 | 35.64 | 163.61 | 1.030 | 0.50 | 1.00 | 1.895 | 1.95 | 69.6 | 13.9 | 58.1 |
| 144.0 | | 0.00 | 1.52 | 21.131 | 35.71 | 162.18 | 1.030 | 0.50 | 1.00 | 1.877 | 1.93 | 69.0 | 13.7 | 57.6 |
| 145.0 | | 0.00 | 1.52 | 21.173 | 35.78 | 160.74 | 1.030 | 0.50 | 1.00 | 1.860 | 1.92 | 68.5 | 13.6 | 57.0 |
| 146.0 | Top - Section 4 | 0.00 | 1.52 | 21.215 | 35.85 | 159.30 | 1.030 | 0.50 | 1.00 | 1.842 | 1.90 | 68.0 | 13.5 | 56.4 |
| 147.0 | | 0.00 | 1.53 | 21.256 | 35.92 | 136.68 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 58.6 | 11.6 | 107.4 |
| 148.0 | | 0.00 | 1.53 | 21.297 | 35.99 | 136.81 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 58.7 | 11.6 | 107.5 |
| 149.0 | | 0.00 | 1.53 | 21.338 | 36.06 | 136.94 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 58.8 | 11.6 | 107.5 |
| 150.0 | Appertunance(s) | 0.00 | 1.54 | 21.379 | 36.13 | 137.07 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 58.9 | 11.6 | 107.5 |
| 151.0 | | 0.00 | 1.54 | 21.420 | 36.20 | 137.20 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 59.0 | 11.6 | 107.5 |
| 152.0 | | 0.00 | 1.54 | 21.460 | 36.26 | 137.33 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 59.1 | 11.6 | 107.5 |
| 153.0 | | 0.00 | 1.55 | 21.501 | 36.33 | 137.46 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 59.3 | 11.6 | 107.5 |
| 154.0 | | 0.00 | 1.55 | 21.541 | 36.40 | 137.59 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 59.4 | 11.6 | 107.5 |
| 155.0 | Appertunance(s) | 0.00 | 1.55 | 21.580 | 36.47 | 137.72 | 1.030 | 0.50 | 1.00 | 1.583 | 1.63 | 59.5 | 11.6 | 107.5 |
| | | | | | | Totals: | | 155.00 | | | | 13,405.1 | 3,386.1 | 26,624.8 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

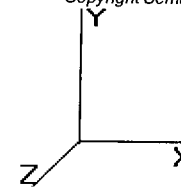
Code: TIA/EIA-222 Rev F

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Page: 31

Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Linear Appurtenance Segment Forces

| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Weight (lb/ft) | CaAa (sf/ft) | qz (psf) | FX (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|----------------|--------------|----------|---------|----------------|
| 1.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 1.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 2.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 2.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 3.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 3.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 4.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 4.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 5.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 5.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 6.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 6.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 7.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 7.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 8.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 8.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 9.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

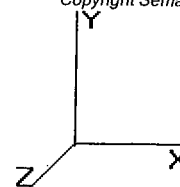
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 9.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 10.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 10.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 11.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 11.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 12.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 12.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 13.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 13.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 14.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 14.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 15.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 15.00 | (1) RG6 Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 16.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 17.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 18.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 19.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

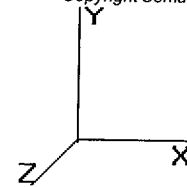
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Page: 33

Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 20.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 21.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 22.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 23.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 24.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 25.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 26.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 27.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 28.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 29.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 30.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 7.03 | 7.30 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 0.00 | 0.30 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.60 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

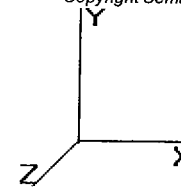
Code: TIA/EIA-222 Rev F

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Page: 34

Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 31.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | | |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 7.03 | 7.30 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.30 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.60 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 32.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 0.00 | 0.00 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 7.03 | 7.30 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.30 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.60 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 33.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.871 | 0.00 | 0.00 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.871 | 7.03 | 7.30 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.871 | 0.00 | 0.30 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.60 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.871 | 0.00 | 0.00 |
| 34.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 13.990 | 0.00 | 0.00 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 13.990 | 7.09 | 7.30 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 13.990 | 0.00 | 0.30 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.990 | 0.00 | 0.60 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 13.990 | 0.00 | 0.00 |
| 35.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.106 | 0.00 | 0.00 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.106 | 7.15 | 7.30 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.106 | 0.00 | 0.30 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.106 | 0.00 | 0.60 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.106 | 0.00 | 0.00 |
| 36.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.220 | 0.00 | 0.00 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.220 | 7.21 | 7.30 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.220 | 0.00 | 0.30 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.220 | 0.00 | 0.60 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.220 | 0.00 | 0.00 |
| 37.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.332 | 0.00 | 0.00 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.332 | 7.27 | 7.30 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.332 | 0.00 | 0.30 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.332 | 0.00 | 0.60 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.332 | 0.00 | 0.00 |
| 38.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.442 | 0.00 | 0.00 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.442 | 7.32 | 7.30 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.442 | 0.00 | 0.30 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.442 | 0.00 | 0.60 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.442 | 0.00 | 0.00 |
| 39.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.549 | 0.00 | 0.00 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.549 | 7.38 | 7.30 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.549 | 0.00 | 0.30 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.549 | 0.00 | 0.60 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.549 | 0.00 | 0.00 |
| 40.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.655 | 0.00 | 0.00 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.655 | 7.43 | 7.30 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.655 | 0.00 | 0.30 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.655 | 0.00 | 0.60 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.655 | 0.00 | 0.00 |
| 40.57 | (3) 1 5/8" Coax | Yes | 0.57 | 7.30 | 0.30 | 14.714 | 0.00 | 0.00 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.30 | 0.00 | 14.714 | 4.26 | 4.17 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.60 | 0.00 | 14.714 | 0.00 | 0.17 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.00 | 0.00 | 14.714 | 0.00 | 0.34 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.00 | 0.00 | 14.714 | 0.00 | 0.00 |
| 41.00 | (3) 1 5/8" Coax | Yes | 0.43 | 7.30 | 0.30 | 14.759 | 0.00 | 0.00 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.30 | 0.00 | 14.759 | 3.21 | 3.14 |
| | | | | | | | 0.00 | 0.13 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

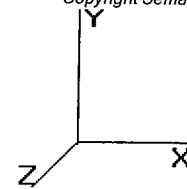
Code: TIA/EIA-222 Rev F

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Page: 35

Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|------|------|
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.60 | 0.00 | 14.759 | 0.00 | 0.26 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.00 | 0.00 | 14.759 | 0.00 | 0.00 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.00 | 0.00 | 14.759 | 0.00 | 0.00 |
| 42.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.861 | 7.53 | 7.30 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.861 | 0.00 | 0.30 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.861 | 0.00 | 0.60 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.861 | 0.00 | 0.00 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.861 | 0.00 | 0.00 |
| 43.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 14.961 | 7.59 | 7.30 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 14.961 | 0.00 | 0.30 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 14.961 | 0.00 | 0.60 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.961 | 0.00 | 0.00 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 14.961 | 0.00 | 0.00 |
| 44.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.059 | 7.64 | 7.30 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.059 | 0.00 | 0.30 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.059 | 0.00 | 0.60 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.059 | 0.00 | 0.00 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.059 | 0.00 | 0.00 |
| 45.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.156 | 7.68 | 7.30 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.156 | 0.00 | 0.30 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.156 | 0.00 | 0.60 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.156 | 0.00 | 0.00 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.156 | 0.00 | 0.00 |
| 45.73 | (3) 1 5/8" Coax | Yes | 0.73 | 7.30 | 0.30 | 15.226 | 5.63 | 5.33 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.30 | 0.00 | 15.226 | 0.00 | 0.22 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.60 | 0.00 | 15.226 | 0.00 | 0.44 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.00 | 0.00 | 15.226 | 0.00 | 0.00 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.00 | 0.00 | 15.226 | 0.00 | 0.00 |
| 46.00 | (3) 1 5/8" Coax | Yes | 0.27 | 7.30 | 0.30 | 15.252 | 2.09 | 1.97 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.30 | 0.00 | 15.252 | 0.00 | 0.08 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.60 | 0.00 | 15.252 | 0.00 | 0.16 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.00 | 0.00 | 15.252 | 0.00 | 0.00 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.00 | 0.00 | 15.252 | 0.00 | 0.00 |
| 47.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.346 | 7.78 | 7.30 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.346 | 0.00 | 0.30 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.346 | 0.00 | 0.60 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.346 | 0.00 | 0.00 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.346 | 0.00 | 0.00 |
| 48.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.439 | 7.83 | 7.30 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.439 | 0.00 | 0.30 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.439 | 0.00 | 0.60 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.439 | 0.00 | 0.00 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.439 | 0.00 | 0.00 |
| 49.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.530 | 7.87 | 7.30 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.530 | 0.00 | 0.30 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.530 | 0.00 | 0.60 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.530 | 0.00 | 0.00 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.530 | 0.00 | 0.00 |
| 50.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.620 | 7.92 | 7.30 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.620 | 0.00 | 0.30 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.620 | 0.00 | 0.60 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.620 | 0.00 | 0.00 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.620 | 0.00 | 0.00 |
| 51.00 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 15.708 | 7.96 | 7.30 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.00 | 15.708 | 0.00 | 0.30 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.60 | 0.00 | 15.708 | 0.00 | 0.60 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.00 | 0.00 | 15.708 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

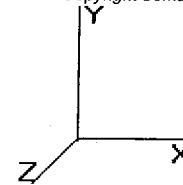
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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|--------|-------|------|
| 109.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.515 | 9.89 | 7.30 |
| 110.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.566 | 9.92 | 7.30 |
| 111.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.617 | 9.95 | 7.30 |
| 112.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.667 | 9.97 | 7.30 |
| 113.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.717 | 10.00 | 7.30 |
| 114.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.767 | 10.02 | 7.30 |
| 115.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.816 | 10.05 | 7.30 |
| 116.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.865 | 10.07 | 7.30 |
| 117.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.914 | 10.10 | 7.30 |
| 118.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 19.963 | 10.12 | 7.30 |
| 119.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.011 | 10.15 | 7.30 |
| 120.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.059 | 10.17 | 7.30 |
| 121.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.106 | 10.19 | 7.30 |
| 122.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.154 | 10.22 | 7.30 |
| 122.2 | (3) 1 5/8" Coax | Yes | 0.22 | 7.30 | 0.30 | 20.164 | 2.25 | 1.61 |
| 123.0 | (3) 1 5/8" Coax | Yes | 0.78 | 7.30 | 0.30 | 20.201 | 7.99 | 5.70 |
| 124.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.248 | 10.27 | 7.30 |
| 125.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.294 | 10.29 | 7.30 |
| 126.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.340 | 10.31 | 7.30 |
| 126.4 | (3) 1 5/8" Coax | Yes | 0.40 | 7.30 | 0.30 | 20.359 | 4.16 | 2.94 |
| 127.0 | (3) 1 5/8" Coax | Yes | 0.60 | 7.30 | 0.30 | 20.386 | 6.17 | 4.36 |
| 128.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.432 | 10.36 | 7.30 |
| 129.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.478 | 10.38 | 7.30 |
| 130.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.523 | 10.41 | 7.30 |
| 131.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.568 | 10.43 | 7.30 |
| 132.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.612 | 10.45 | 7.30 |
| 133.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.657 | 10.47 | 7.30 |
| 134.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.701 | 10.50 | 7.30 |
| 135.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.745 | 10.52 | 7.30 |
| 136.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.789 | 10.54 | 7.30 |
| 137.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.833 | 10.56 | 7.30 |
| 138.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.876 | 10.58 | 7.30 |
| 139.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.919 | 10.61 | 7.30 |
| 140.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 20.962 | 10.63 | 7.30 |
| 141.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 21.005 | 10.65 | 7.30 |
| 142.0 | (3) 1 5/8" Coax | Yes | 1.00 | 7.30 | 0.30 | 21.047 | 10.67 | 7.30 |
| 143.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.089 | 7.13 | 5.70 |
| 144.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.131 | 7.14 | 5.70 |
| 145.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.173 | 7.16 | 5.70 |
| 146.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.215 | 7.17 | 5.70 |
| 147.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.256 | 7.18 | 5.70 |
| 148.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.297 | 7.20 | 5.70 |
| 149.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.338 | 7.21 | 5.70 |
| 150.0 | (3) 1 1/4" Coax | Yes | 1.00 | 5.70 | 0.20 | 21.379 | 7.23 | 5.70 |

Totals: 1,289.30 1,143.81

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

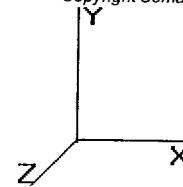
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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Applied Segment Forces Summary

| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|---------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 109.44 | 322.63 | 0.00 | 0.00 |
| 2.00 | 109.02 | 321.49 | 0.00 | 0.00 |
| 3.00 | 108.59 | 320.35 | 0.00 | 0.00 |
| 4.00 | 108.17 | 319.21 | 0.00 | 0.00 |
| 5.00 | 107.74 | 318.07 | 0.00 | 0.00 |
| 6.00 | 107.32 | 316.93 | 0.00 | 0.00 |
| 7.00 | 106.90 | 315.78 | 0.00 | 0.00 |
| 8.00 | 106.47 | 314.64 | 0.00 | 0.00 |
| 9.00 | 106.05 | 313.50 | 0.00 | 0.00 |
| 10.00 | 105.63 | 312.36 | 0.00 | 0.00 |
| 11.00 | 105.20 | 311.22 | 0.00 | 0.00 |
| 12.00 | 104.78 | 310.08 | 0.00 | 0.00 |
| 13.00 | 104.35 | 308.93 | 0.00 | 0.00 |
| 14.00 | 103.93 | 307.79 | 0.00 | 0.00 |
| 15.00 | 614.31 | 583.65 | 0.00 | 0.00 |
| 16.00 | 103.08 | 305.51 | 0.00 | 0.00 |
| 17.00 | 102.66 | 304.37 | 0.00 | 0.00 |
| 18.00 | 102.23 | 303.23 | 0.00 | 0.00 |
| 19.00 | 101.81 | 302.09 | 0.00 | 0.00 |
| 20.00 | 101.39 | 300.94 | 0.00 | 0.00 |
| 21.00 | 100.96 | 299.80 | 0.00 | 0.00 |
| 22.00 | 100.54 | 298.66 | 0.00 | 0.00 |
| 23.00 | 100.12 | 297.52 | 0.00 | 0.00 |
| 24.00 | 99.69 | 296.38 | 0.00 | 0.00 |
| 25.00 | 99.27 | 295.24 | 0.00 | 0.00 |
| 26.00 | 98.84 | 294.10 | 0.00 | 0.00 |
| 27.00 | 98.42 | 292.95 | 0.00 | 0.00 |
| 28.00 | 98.00 | 291.81 | 0.00 | 0.00 |
| 29.00 | 97.57 | 290.67 | 0.00 | 0.00 |
| 30.00 | 97.15 | 289.53 | 0.00 | 0.00 |
| 31.00 | 96.73 | 288.39 | 0.00 | 0.00 |
| 32.00 | 96.30 | 287.25 | 0.00 | 0.00 |
| 33.00 | 95.88 | 286.10 | 0.00 | 0.00 |
| 34.00 | 96.27 | 284.96 | 0.00 | 0.00 |
| 35.00 | 96.64 | 283.82 | 0.00 | 0.00 |
| 36.00 | 96.99 | 282.68 | 0.00 | 0.00 |
| 37.00 | 97.31 | 281.54 | 0.00 | 0.00 |
| 38.00 | 97.62 | 280.40 | 0.00 | 0.00 |
| 39.00 | 97.90 | 279.26 | 0.00 | 0.00 |
| 40.00 | 98.16 | 278.11 | 0.00 | 0.00 |
| 40.57 | 56.05 | 158.24 | 0.00 | 0.00 |
| 41.00 | 42.88 | 192.67 | 0.00 | 0.00 |
| 42.00 | 100.25 | 447.37 | 0.00 | 0.00 |
| 43.00 | 100.47 | 445.36 | 0.00 | 0.00 |
| 44.00 | 100.67 | 443.36 | 0.00 | 0.00 |
| 45.00 | 100.85 | 441.35 | 0.00 | 0.00 |
| 45.73 | 73.66 | 320.89 | 0.00 | 0.00 |
| 46.00 | 27.24 | 66.82 | 0.00 | 0.00 |
| 47.00 | 101.18 | 246.70 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

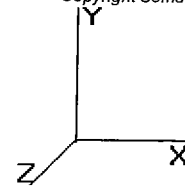
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Base Elev : 0.000 (ft)



Load Case: Ice 73.61 mph Wind with Ice 34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | |
|-------|--------|--------|------|-------|
| 48.00 | 101.32 | 245.70 | 0.00 | 0.00 |
| 49.00 | 101.44 | 244.70 | 0.00 | 0.00 |
| 50.00 | 101.55 | 243.71 | 0.00 | 0.00 |
| 51.00 | 101.65 | 242.71 | 0.00 | 0.00 |
| 52.00 | 101.73 | 241.71 | 0.00 | 0.00 |
| 53.00 | 101.80 | 240.71 | 0.00 | 0.00 |
| 54.00 | 101.86 | 239.72 | 0.00 | 0.00 |
| 55.00 | 185.45 | 319.46 | 0.00 | 0.36 |
| 56.00 | 101.94 | 237.72 | 0.00 | 0.00 |
| 57.00 | 101.96 | 236.73 | 0.00 | 0.00 |
| 58.00 | 101.97 | 235.73 | 0.00 | 0.00 |
| 59.00 | 101.97 | 234.73 | 0.00 | 0.00 |
| 60.00 | 101.95 | 233.73 | 0.00 | 0.00 |
| 61.00 | 337.35 | 419.22 | 0.00 | 33.89 |
| 62.00 | 101.90 | 231.14 | 0.00 | 0.00 |
| 63.00 | 101.86 | 230.14 | 0.00 | 0.00 |
| 64.00 | 101.80 | 229.14 | 0.00 | 0.00 |
| 65.00 | 101.74 | 228.15 | 0.00 | 0.00 |
| 66.00 | 101.67 | 227.15 | 0.00 | 0.00 |
| 67.00 | 101.59 | 226.15 | 0.00 | 0.00 |
| 68.00 | 101.50 | 225.16 | 0.00 | 0.00 |
| 69.00 | 101.40 | 224.16 | 0.00 | 0.00 |
| 70.00 | 101.29 | 223.16 | 0.00 | 0.00 |
| 71.00 | 101.17 | 222.16 | 0.00 | 0.00 |
| 72.00 | 101.05 | 221.17 | 0.00 | 0.00 |
| 73.00 | 100.92 | 220.17 | 0.00 | 0.00 |
| 74.00 | 100.78 | 219.17 | 0.00 | 0.00 |
| 75.00 | 100.63 | 218.17 | 0.00 | 0.00 |
| 76.00 | 100.47 | 217.18 | 0.00 | 0.00 |
| 77.00 | 100.31 | 216.18 | 0.00 | 0.00 |
| 78.00 | 100.14 | 215.18 | 0.00 | 0.00 |
| 79.00 | 99.96 | 214.19 | 0.00 | 0.00 |
| 80.00 | 99.77 | 213.19 | 0.00 | 0.00 |
| 81.00 | 227.20 | 305.43 | 0.00 | 18.36 |
| 81.11 | 11.24 | 23.92 | 0.00 | 0.00 |
| 82.00 | 89.55 | 290.23 | 0.00 | 0.00 |
| 83.00 | 100.81 | 325.63 | 0.00 | 0.00 |
| 84.00 | 100.60 | 323.91 | 0.00 | 0.00 |
| 85.00 | 100.39 | 322.20 | 0.00 | 0.00 |
| 85.87 | 87.20 | 279.13 | 0.00 | 0.00 |
| 86.00 | 12.93 | 24.21 | 0.00 | 0.00 |
| 87.00 | 99.94 | 186.63 | 0.00 | 0.00 |
| 88.00 | 99.70 | 185.78 | 0.00 | 0.00 |
| 89.00 | 99.46 | 184.93 | 0.00 | 0.00 |
| 90.00 | 99.22 | 184.07 | 0.00 | 0.00 |
| 91.00 | 98.96 | 183.22 | 0.00 | 0.00 |
| 92.00 | 98.71 | 182.37 | 0.00 | 0.00 |
| 93.00 | 98.44 | 181.51 | 0.00 | 0.00 |
| 94.00 | 98.17 | 180.66 | 0.00 | 0.00 |
| 95.00 | 97.90 | 179.81 | 0.00 | 0.00 |
| 96.00 | 97.61 | 178.95 | 0.00 | 0.00 |
| 97.00 | 97.33 | 178.10 | 0.00 | 0.00 |
| 98.00 | 97.03 | 177.25 | 0.00 | 0.00 |
| 99.00 | 96.74 | 176.40 | 0.00 | 0.00 |
| 100.0 | 96.43 | 175.54 | 0.00 | 0.00 |
| 101.0 | 96.12 | 174.69 | 0.00 | 0.00 |
| 102.0 | 95.81 | 173.84 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

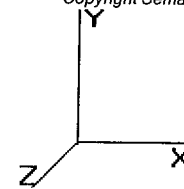
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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

| Seg Elev (ft) | Lateral FX (-) (kips) | Axial FY (-) (kips) | Lateral FZ (kips) | Moment MX (ft-kips) | Torsion MY (ft-kips) | Moment MZ (ft-kips) | X Deflect (in) | Z Deflect (in) | Total Deflect (in) | Rotation (deg) |
|---------------|-----------------------|---------------------|-------------------|---------------------|----------------------|---------------------|----------------|----------------|--------------------|----------------|
| 0.00 | -29.685 | -50.735 | 0.000 | 0.000 | 0.000 | -3,211.908 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1.00 | -29.612 | -50.391 | 0.000 | 0.000 | 0.000 | -3,182.224 | -0.005 | 0.000 | 0.005 | -0.042 |
| 2.00 | -29.539 | -50.048 | 0.000 | 0.000 | 0.000 | -3,152.613 | -0.018 | 0.000 | 0.018 | -0.083 |
| 3.00 | -29.466 | -49.706 | 0.000 | 0.000 | 0.000 | -3,123.074 | -0.040 | 0.000 | 0.040 | -0.125 |
| 4.00 | -29.393 | -49.366 | 0.000 | 0.000 | 0.000 | -3,093.609 | -0.071 | 0.000 | 0.071 | -0.167 |
| 5.00 | -29.321 | -49.026 | 0.000 | 0.000 | 0.000 | -3,064.216 | -0.111 | 0.000 | 0.111 | -0.209 |
| 6.00 | -29.248 | -48.688 | 0.000 | 0.000 | 0.000 | -3,034.896 | -0.160 | 0.000 | 0.160 | -0.251 |
| 7.00 | -29.176 | -48.351 | 0.000 | 0.000 | 0.000 | -3,005.649 | -0.217 | 0.000 | 0.217 | -0.294 |
| 8.00 | -29.103 | -48.016 | 0.000 | 0.000 | 0.000 | -2,976.474 | -0.283 | 0.000 | 0.283 | -0.336 |
| 9.00 | -29.031 | -47.681 | 0.000 | 0.000 | 0.000 | -2,947.372 | -0.359 | 0.000 | 0.359 | -0.379 |
| 10.00 | -28.958 | -47.348 | 0.000 | 0.000 | 0.000 | -2,918.342 | -0.443 | 0.000 | 0.443 | -0.422 |
| 11.00 | -28.886 | -47.016 | 0.000 | 0.000 | 0.000 | -2,889.384 | -0.536 | 0.000 | 0.536 | -0.465 |
| 12.00 | -28.814 | -46.685 | 0.000 | 0.000 | 0.000 | -2,860.499 | -0.639 | 0.000 | 0.639 | -0.508 |
| 13.00 | -28.742 | -46.355 | 0.000 | 0.000 | 0.000 | -2,831.686 | -0.750 | 0.000 | 0.750 | -0.551 |
| 14.00 | -28.670 | -46.027 | 0.000 | 0.000 | 0.000 | -2,802.945 | -0.870 | 0.000 | 0.870 | -0.595 |
| 15.00 | -28.084 | -45.428 | 0.000 | 0.000 | 0.000 | -2,774.276 | -1.000 | 0.000 | 1.000 | -0.638 |
| 16.00 | -28.012 | -45.103 | 0.000 | 0.000 | 0.000 | -2,746.193 | -1.138 | 0.000 | 1.138 | -0.682 |
| 17.00 | -27.939 | -44.778 | 0.000 | 0.000 | 0.000 | -2,718.182 | -1.286 | 0.000 | 1.286 | -0.726 |
| 18.00 | -27.868 | -44.455 | 0.000 | 0.000 | 0.000 | -2,690.243 | -1.443 | 0.000 | 1.443 | -0.770 |
| 19.00 | -27.796 | -44.133 | 0.000 | 0.000 | 0.000 | -2,662.376 | -1.609 | 0.000 | 1.609 | -0.814 |
| 20.00 | -27.724 | -43.812 | 0.000 | 0.000 | 0.000 | -2,634.581 | -1.785 | 0.000 | 1.785 | -0.858 |
| 21.00 | -27.652 | -43.492 | 0.000 | 0.000 | 0.000 | -2,606.858 | -1.970 | 0.000 | 1.970 | -0.903 |
| 22.00 | -27.580 | -43.174 | 0.000 | 0.000 | 0.000 | -2,579.207 | -2.164 | 0.000 | 2.164 | -0.947 |
| 23.00 | -27.509 | -42.856 | 0.000 | 0.000 | 0.000 | -2,551.627 | -2.367 | 0.000 | 2.367 | -0.992 |
| 24.00 | -27.437 | -42.540 | 0.000 | 0.000 | 0.000 | -2,524.119 | -2.580 | 0.000 | 2.580 | -1.037 |
| 25.00 | -27.366 | -42.225 | 0.000 | 0.000 | 0.000 | -2,496.683 | -2.802 | 0.000 | 2.802 | -1.082 |
| 26.00 | -27.294 | -41.912 | 0.000 | 0.000 | 0.000 | -2,469.318 | -3.034 | 0.000 | 3.034 | -1.127 |
| 27.00 | -27.223 | -41.599 | 0.000 | 0.000 | 0.000 | -2,442.024 | -3.275 | 0.000 | 3.275 | -1.173 |
| 28.00 | -27.152 | -41.288 | 0.000 | 0.000 | 0.000 | -2,414.801 | -3.526 | 0.000 | 3.526 | -1.218 |
| 29.00 | -27.081 | -40.978 | 0.000 | 0.000 | 0.000 | -2,387.650 | -3.786 | 0.000 | 3.786 | -1.264 |
| 30.00 | -27.010 | -40.669 | 0.000 | 0.000 | 0.000 | -2,360.570 | -4.056 | 0.000 | 4.056 | -1.310 |
| 31.00 | -26.939 | -40.361 | 0.000 | 0.000 | 0.000 | -2,333.561 | -4.336 | 0.000 | 4.336 | -1.356 |
| 32.00 | -26.868 | -40.055 | 0.000 | 0.000 | 0.000 | -2,306.623 | -4.625 | 0.000 | 4.625 | -1.402 |
| 33.00 | -26.797 | -39.750 | 0.000 | 0.000 | 0.000 | -2,279.756 | -4.923 | 0.000 | 4.923 | -1.448 |
| 34.00 | -26.725 | -39.446 | 0.000 | 0.000 | 0.000 | -2,252.960 | -5.232 | 0.000 | 5.232 | -1.494 |
| 35.00 | -26.653 | -39.143 | 0.000 | 0.000 | 0.000 | -2,226.235 | -5.550 | 0.000 | 5.550 | -1.541 |
| 36.00 | -26.580 | -38.841 | 0.000 | 0.000 | 0.000 | -2,199.583 | -5.878 | 0.000 | 5.878 | -1.587 |
| 37.00 | -26.506 | -38.541 | 0.000 | 0.000 | 0.000 | -2,173.003 | -6.216 | 0.000 | 6.216 | -1.634 |
| 38.00 | -26.432 | -38.242 | 0.000 | 0.000 | 0.000 | -2,146.498 | -6.563 | 0.000 | 6.563 | -1.681 |
| 39.00 | -26.357 | -37.944 | 0.000 | 0.000 | 0.000 | -2,120.067 | -6.920 | 0.000 | 6.920 | -1.728 |
| 40.00 | -26.275 | -37.652 | 0.000 | 0.000 | 0.000 | -2,093.710 | -7.287 | 0.000 | 7.287 | -1.775 |
| 40.57 | -26.229 | -37.485 | 0.000 | 0.000 | 0.000 | -2,078.715 | -7.501 | 0.000 | 7.501 | -1.802 |
| 41.00 | -26.202 | -37.278 | 0.000 | 0.000 | 0.000 | -2,067.456 | -7.664 | 0.000 | 7.664 | -1.823 |
| 42.00 | -26.118 | -36.812 | 0.000 | 0.000 | 0.000 | -2,041.254 | -8.051 | 0.000 | 8.051 | -1.870 |
| 43.00 | -26.033 | -36.349 | 0.000 | 0.000 | 0.000 | -2,015.136 | -8.448 | 0.000 | 8.448 | -1.917 |
| 44.00 | -25.948 | -35.888 | 0.000 | 0.000 | 0.000 | -1,989.104 | -8.855 | 0.000 | 8.855 | -1.965 |
| 45.00 | -25.857 | -35.431 | 0.000 | 0.000 | 0.000 | -1,963.157 | -9.272 | 0.000 | 9.272 | -2.013 |
| 45.73 | -25.787 | -35.103 | 0.000 | 0.000 | 0.000 | -1,944.284 | -9.583 | 0.000 | 9.583 | -2.048 |
| 46.00 | -25.777 | -35.022 | 0.000 | 0.000 | 0.000 | -1,937.319 | -9.699 | 0.000 | 9.699 | -2.061 |
| 47.00 | -25.699 | -34.755 | 0.000 | 0.000 | 0.000 | -1,911.542 | -10.137 | 0.000 | 10.137 | -2.114 |
| 48.00 | -25.621 | -34.490 | 0.000 | 0.000 | 0.000 | -1,885.844 | -10.585 | 0.000 | 10.585 | -2.167 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

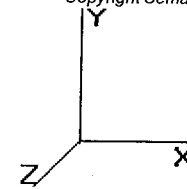
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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|-------|---------|---------|-------|-------|-------|------------|---------|-------|--------|--------|
| 49.00 | -25.542 | -34.226 | 0.000 | 0.000 | 0.000 | -1,860.224 | -11.045 | 0.000 | 11.045 | -2.220 |
| 50.00 | -25.462 | -33.963 | 0.000 | 0.000 | 0.000 | -1,834.682 | -11.516 | 0.000 | 11.516 | -2.273 |
| 51.00 | -25.382 | -33.701 | 0.000 | 0.000 | 0.000 | -1,809.221 | -11.997 | 0.000 | 11.997 | -2.326 |
| 52.00 | -25.302 | -33.440 | 0.000 | 0.000 | 0.000 | -1,783.839 | -12.490 | 0.000 | 12.490 | -2.379 |
| 53.00 | -25.221 | -33.180 | 0.000 | 0.000 | 0.000 | -1,758.538 | -12.995 | 0.000 | 12.995 | -2.432 |
| 54.00 | -25.140 | -32.921 | 0.000 | 0.000 | 0.000 | -1,733.318 | -13.510 | 0.000 | 13.510 | -2.486 |
| 55.00 | -24.971 | -32.587 | 0.000 | 0.000 | 0.000 | -1,708.178 | -14.036 | 0.000 | 14.036 | -2.539 |
| 56.00 | -24.889 | -32.331 | 0.000 | 0.000 | 0.000 | -1,683.208 | -14.574 | 0.000 | 14.574 | -2.593 |
| 57.00 | -24.806 | -32.076 | 0.000 | 0.000 | 0.000 | -1,658.320 | -15.123 | 0.000 | 15.123 | -2.647 |
| 58.00 | -24.723 | -31.822 | 0.000 | 0.000 | 0.000 | -1,633.515 | -15.683 | 0.000 | 15.683 | -2.701 |
| 59.00 | -24.640 | -31.569 | 0.000 | 0.000 | 0.000 | -1,608.792 | -16.255 | 0.000 | 16.255 | -2.754 |
| 60.00 | -24.556 | -31.317 | 0.000 | 0.000 | 0.000 | -1,584.153 | -16.838 | 0.000 | 16.838 | -2.808 |
| 61.00 | -24.228 | -30.893 | 0.000 | 0.000 | 0.000 | -1,559.564 | -17.432 | 0.000 | 17.432 | -2.862 |
| 62.00 | -24.143 | -30.644 | 0.000 | 0.000 | 0.000 | -1,535.337 | -18.037 | 0.000 | 18.037 | -2.916 |
| 63.00 | -24.058 | -30.397 | 0.000 | 0.000 | 0.000 | -1,511.194 | -18.654 | 0.000 | 18.654 | -2.970 |
| 64.00 | -23.973 | -30.151 | 0.000 | 0.000 | 0.000 | -1,487.137 | -19.281 | 0.000 | 19.281 | -3.025 |
| 65.00 | -23.888 | -29.906 | 0.000 | 0.000 | 0.000 | -1,463.164 | -19.921 | 0.000 | 19.921 | -3.079 |
| 66.00 | -23.802 | -29.662 | 0.000 | 0.000 | 0.000 | -1,439.277 | -20.571 | 0.000 | 20.571 | -3.133 |
| 67.00 | -23.716 | -29.419 | 0.000 | 0.000 | 0.000 | -1,415.476 | -21.233 | 0.000 | 21.233 | -3.187 |
| 68.00 | -23.630 | -29.178 | 0.000 | 0.000 | 0.000 | -1,391.760 | -21.907 | 0.000 | 21.907 | -3.242 |
| 69.00 | -23.543 | -28.937 | 0.000 | 0.000 | 0.000 | -1,368.131 | -22.591 | 0.000 | 22.591 | -3.296 |
| 70.00 | -23.456 | -28.698 | 0.000 | 0.000 | 0.000 | -1,344.589 | -23.288 | 0.000 | 23.288 | -3.350 |
| 71.00 | -23.369 | -28.460 | 0.000 | 0.000 | 0.000 | -1,321.133 | -23.995 | 0.000 | 23.995 | -3.405 |
| 72.00 | -23.282 | -28.223 | 0.000 | 0.000 | 0.000 | -1,297.764 | -24.714 | 0.000 | 24.714 | -3.459 |
| 73.00 | -23.194 | -27.988 | 0.000 | 0.000 | 0.000 | -1,274.483 | -25.444 | 0.000 | 25.444 | -3.514 |
| 74.00 | -23.107 | -27.753 | 0.000 | 0.000 | 0.000 | -1,251.289 | -26.186 | 0.000 | 26.186 | -3.568 |
| 75.00 | -23.019 | -27.520 | 0.000 | 0.000 | 0.000 | -1,228.183 | -26.939 | 0.000 | 26.939 | -3.622 |
| 76.00 | -22.930 | -27.288 | 0.000 | 0.000 | 0.000 | -1,205.165 | -27.703 | 0.000 | 27.703 | -3.677 |
| 77.00 | -22.842 | -27.057 | 0.000 | 0.000 | 0.000 | -1,182.235 | -28.479 | 0.000 | 28.479 | -3.731 |
| 78.00 | -22.753 | -26.827 | 0.000 | 0.000 | 0.000 | -1,159.393 | -29.265 | 0.000 | 29.265 | -3.785 |
| 79.00 | -22.664 | -26.599 | 0.000 | 0.000 | 0.000 | -1,136.641 | -30.064 | 0.000 | 30.064 | -3.839 |
| 80.00 | -22.575 | -26.372 | 0.000 | 0.000 | 0.000 | -1,113.977 | -30.873 | 0.000 | 30.873 | -3.893 |
| 81.00 | -22.342 | -26.071 | 0.000 | 0.000 | 0.000 | -1,091.383 | -31.694 | 0.000 | 31.694 | -3.947 |
| 81.11 | -22.341 | -26.037 | 0.000 | 0.000 | 0.000 | -1,088.856 | -31.788 | 0.000 | 31.788 | -3.954 |
| 82.00 | -22.254 | -25.734 | 0.000 | 0.000 | 0.000 | -1,069.043 | -32.527 | 0.000 | 32.527 | -4.001 |
| 83.00 | -22.155 | -25.396 | 0.000 | 0.000 | 0.000 | -1,046.789 | -33.370 | 0.000 | 33.370 | -4.055 |
| 84.00 | -22.055 | -25.059 | 0.000 | 0.000 | 0.000 | -1,024.635 | -34.225 | 0.000 | 34.225 | -4.109 |
| 85.00 | -21.953 | -24.726 | 0.000 | 0.000 | 0.000 | -1,002.581 | -35.091 | 0.000 | 35.091 | -4.163 |
| 85.87 | -21.857 | -24.444 | 0.000 | 0.000 | 0.000 | -983.468 | -35.854 | 0.000 | 35.854 | -4.209 |
| 86.00 | -21.857 | -24.407 | 0.000 | 0.000 | 0.000 | -980.640 | -35.968 | 0.000 | 35.968 | -4.216 |
| 87.00 | -21.769 | -24.206 | 0.000 | 0.000 | 0.000 | -958.784 | -36.857 | 0.000 | 36.857 | -4.276 |
| 88.00 | -21.681 | -24.006 | 0.000 | 0.000 | 0.000 | -937.016 | -37.758 | 0.000 | 37.758 | -4.336 |
| 89.00 | -21.592 | -23.806 | 0.000 | 0.000 | 0.000 | -915.336 | -38.672 | 0.000 | 38.672 | -4.396 |
| 90.00 | -21.503 | -23.608 | 0.000 | 0.000 | 0.000 | -893.745 | -39.599 | 0.000 | 39.599 | -4.455 |
| 91.00 | -21.414 | -23.411 | 0.000 | 0.000 | 0.000 | -872.242 | -40.538 | 0.000 | 40.538 | -4.514 |
| 92.00 | -21.325 | -23.216 | 0.000 | 0.000 | 0.000 | -850.828 | -41.489 | 0.000 | 41.489 | -4.573 |
| 93.00 | -21.236 | -23.021 | 0.000 | 0.000 | 0.000 | -829.503 | -42.452 | 0.000 | 42.452 | -4.631 |
| 94.00 | -21.147 | -22.827 | 0.000 | 0.000 | 0.000 | -808.268 | -43.428 | 0.000 | 43.428 | -4.690 |
| 95.00 | -21.057 | -22.635 | 0.000 | 0.000 | 0.000 | -787.122 | -44.416 | 0.000 | 44.416 | -4.747 |
| 96.00 | -20.967 | -22.444 | 0.000 | 0.000 | 0.000 | -766.065 | -45.415 | 0.000 | 45.415 | -4.805 |
| 97.00 | -20.877 | -22.254 | 0.000 | 0.000 | 0.000 | -745.098 | -46.427 | 0.000 | 46.427 | -4.862 |
| 98.00 | -20.787 | -22.065 | 0.000 | 0.000 | 0.000 | -724.221 | -47.451 | 0.000 | 47.451 | -4.919 |
| 99.00 | -20.697 | -21.878 | 0.000 | 0.000 | 0.000 | -703.435 | -48.486 | 0.000 | 48.486 | -4.975 |
| 100.0 | -20.607 | -21.691 | 0.000 | 0.000 | 0.000 | -682.738 | -49.533 | 0.000 | 49.533 | -5.030 |
| 101.0 | -20.516 | -21.506 | 0.000 | 0.000 | 0.000 | -662.132 | -50.591 | 0.000 | 50.591 | -5.086 |
| 102.0 | -20.426 | -21.322 | 0.000 | 0.000 | 0.000 | -641.616 | -51.661 | 0.000 | 51.661 | -5.140 |
| 103.0 | -20.335 | -21.139 | 0.000 | 0.000 | 0.000 | -621.191 | -52.743 | 0.000 | 52.743 | -5.194 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

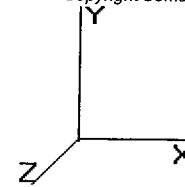
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|-------|---------|---------|-------|-------|-------|----------|----------|-------|---------|--------|
| 104.0 | -20.244 | -20.958 | 0.000 | 0.000 | 0.000 | -600.857 | -53.835 | 0.000 | 53.835 | -5.248 |
| 105.0 | -19.516 | -20.391 | 0.000 | 0.000 | 0.000 | -580.614 | -54.939 | 0.000 | 54.939 | -5.300 |
| 106.0 | -19.425 | -20.217 | 0.000 | 0.000 | 0.000 | -561.098 | -56.053 | 0.000 | 56.053 | -5.353 |
| 107.0 | -19.333 | -20.045 | 0.000 | 0.000 | 0.000 | -541.674 | -57.179 | 0.000 | 57.179 | -5.404 |
| 108.0 | -19.242 | -19.874 | 0.000 | 0.000 | 0.000 | -522.341 | -58.315 | 0.000 | 58.315 | -5.455 |
| 109.0 | -19.151 | -19.704 | 0.000 | 0.000 | 0.000 | -503.100 | -59.461 | 0.000 | 59.461 | -5.505 |
| 110.0 | -19.059 | -19.536 | 0.000 | 0.000 | 0.000 | -483.950 | -60.618 | 0.000 | 60.618 | -5.554 |
| 111.0 | -18.967 | -19.368 | 0.000 | 0.000 | 0.000 | -464.891 | -61.785 | 0.000 | 61.785 | -5.602 |
| 112.0 | -18.875 | -19.202 | 0.000 | 0.000 | 0.000 | -445.924 | -62.962 | 0.000 | 62.962 | -5.650 |
| 113.0 | -18.783 | -19.038 | 0.000 | 0.000 | 0.000 | -427.050 | -64.149 | 0.000 | 64.149 | -5.697 |
| 114.0 | -18.691 | -18.874 | 0.000 | 0.000 | 0.000 | -408.267 | -65.345 | 0.000 | 65.345 | -5.742 |
| 115.0 | -15.091 | -14.970 | 0.000 | 0.000 | 0.000 | -389.576 | -66.551 | 0.000 | 66.551 | -5.787 |
| 116.0 | -14.997 | -14.822 | 0.000 | 0.000 | 0.000 | -374.485 | -67.766 | 0.000 | 67.766 | -5.831 |
| 117.0 | -14.903 | -14.675 | 0.000 | 0.000 | 0.000 | -359.488 | -68.990 | 0.000 | 68.990 | -5.874 |
| 118.0 | -14.809 | -14.529 | 0.000 | 0.000 | 0.000 | -344.585 | -70.223 | 0.000 | 70.223 | -5.916 |
| 119.0 | -14.716 | -14.384 | 0.000 | 0.000 | 0.000 | -329.776 | -71.465 | 0.000 | 71.465 | -5.958 |
| 120.0 | -14.622 | -14.240 | 0.000 | 0.000 | 0.000 | -315.061 | -72.715 | 0.000 | 72.715 | -5.998 |
| 121.0 | -14.528 | -14.098 | 0.000 | 0.000 | 0.000 | -300.439 | -73.974 | 0.000 | 73.974 | -6.038 |
| 122.0 | -14.431 | -13.960 | 0.000 | 0.000 | 0.000 | -285.912 | -75.240 | 0.000 | 75.240 | -6.077 |
| 122.2 | -14.413 | -13.927 | 0.000 | 0.000 | 0.000 | -282.736 | -75.520 | 0.000 | 75.520 | -6.085 |
| 123.0 | -14.336 | -13.775 | 0.000 | 0.000 | 0.000 | -271.495 | -76.515 | 0.000 | 76.515 | -6.115 |
| 124.0 | -14.235 | -13.584 | 0.000 | 0.000 | 0.000 | -257.160 | -77.798 | 0.000 | 77.798 | -6.151 |
| 125.0 | -14.135 | -13.395 | 0.000 | 0.000 | 0.000 | -242.925 | -79.088 | 0.000 | 79.088 | -6.187 |
| 126.0 | -14.033 | -13.209 | 0.000 | 0.000 | 0.000 | -228.790 | -80.385 | 0.000 | 80.385 | -6.222 |
| 126.4 | -13.993 | -13.133 | 0.000 | 0.000 | 0.000 | -223.134 | -80.910 | 0.000 | 80.910 | -6.235 |
| 127.0 | -13.943 | -13.067 | 0.000 | 0.000 | 0.000 | -214.781 | -81.689 | 0.000 | 81.689 | -6.255 |
| 128.0 | -13.856 | -12.961 | 0.000 | 0.000 | 0.000 | -200.839 | -83.003 | 0.000 | 83.003 | -6.305 |
| 129.0 | -13.769 | -12.856 | 0.000 | 0.000 | 0.000 | -186.983 | -84.327 | 0.000 | 84.327 | -6.353 |
| 130.0 | -10.794 | -10.344 | 0.000 | 0.000 | 0.000 | -173.215 | -85.660 | 0.000 | 85.660 | -6.399 |
| 131.0 | -10.706 | -10.251 | 0.000 | 0.000 | 0.000 | -162.422 | -87.003 | 0.000 | 87.003 | -6.443 |
| 132.0 | -10.617 | -10.159 | 0.000 | 0.000 | 0.000 | -151.716 | -88.354 | 0.000 | 88.354 | -6.485 |
| 133.0 | -10.529 | -10.067 | 0.000 | 0.000 | 0.000 | -141.099 | -89.715 | 0.000 | 89.715 | -6.525 |
| 134.0 | -10.441 | -9.977 | 0.000 | 0.000 | 0.000 | -130.570 | -91.083 | 0.000 | 91.083 | -6.564 |
| 135.0 | -10.353 | -9.887 | 0.000 | 0.000 | 0.000 | -120.129 | -92.459 | 0.000 | 92.459 | -6.600 |
| 136.0 | -10.265 | -9.799 | 0.000 | 0.000 | 0.000 | -109.777 | -93.843 | 0.000 | 93.843 | -6.635 |
| 137.0 | -10.177 | -9.711 | 0.000 | 0.000 | 0.000 | -99.512 | -95.233 | 0.000 | 95.233 | -6.667 |
| 138.0 | -10.089 | -9.625 | 0.000 | 0.000 | 0.000 | -89.335 | -96.630 | 0.000 | 96.630 | -6.696 |
| 139.0 | -10.001 | -9.540 | 0.000 | 0.000 | 0.000 | -79.246 | -98.033 | 0.000 | 98.033 | -6.724 |
| 140.0 | -9.913 | -9.455 | 0.000 | 0.000 | 0.000 | -69.245 | -99.441 | 0.000 | 99.441 | -6.748 |
| 141.0 | -9.826 | -9.372 | 0.000 | 0.000 | 0.000 | -59.332 | -100.854 | 0.000 | 100.854 | -6.771 |
| 142.0 | -5.442 | -5.762 | 0.000 | 0.000 | 0.000 | -49.506 | -102.271 | 0.000 | 102.271 | -6.790 |
| 143.0 | -5.359 | -5.695 | 0.000 | 0.000 | 0.000 | -44.064 | -103.692 | 0.000 | 103.692 | -6.807 |
| 144.0 | -5.276 | -5.628 | 0.000 | 0.000 | 0.000 | -38.706 | -105.116 | 0.000 | 105.116 | -6.822 |
| 145.0 | -5.193 | -5.562 | 0.000 | 0.000 | 0.000 | -33.430 | -106.544 | 0.000 | 106.544 | -6.836 |
| 146.0 | -5.111 | -5.497 | 0.000 | 0.000 | 0.000 | -28.237 | -107.974 | 0.000 | 107.974 | -6.848 |
| 147.0 | -5.031 | -5.381 | 0.000 | 0.000 | 0.000 | -23.127 | -109.406 | 0.000 | 109.406 | -6.859 |
| 148.0 | -4.951 | -5.264 | 0.000 | 0.000 | 0.000 | -18.096 | -110.840 | 0.000 | 110.840 | -6.864 |
| 149.0 | -4.871 | -5.148 | 0.000 | 0.000 | 0.000 | -13.145 | -112.275 | 0.000 | 112.275 | -6.868 |
| 150.0 | -0.929 | -1.210 | 0.000 | 0.000 | 0.000 | -7.917 | -113.710 | 0.000 | 113.710 | -6.871 |
| 151.0 | -0.857 | -1.105 | 0.000 | 0.000 | 0.000 | -6.988 | -115.146 | 0.000 | 115.146 | -6.873 |
| 152.0 | -0.785 | -1.001 | 0.000 | 0.000 | 0.000 | -6.132 | -116.582 | 0.000 | 116.582 | -6.875 |
| 153.0 | -0.712 | -0.896 | 0.000 | 0.000 | 0.000 | -5.347 | -118.019 | 0.000 | 118.019 | -6.876 |
| 154.0 | -0.640 | -0.791 | 0.000 | 0.000 | 0.000 | -4.634 | -119.455 | 0.000 | 119.455 | -6.877 |
| 155.0 | -0.541 | 0.000 | 0.000 | 0.000 | 0.000 | -3.994 | -120.893 | 0.000 | 120.893 | -6.879 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

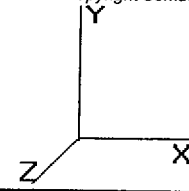
Code: TIA/EIA-222 Rev F

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Page: 45

Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Stresses

| Seg Elev (ft) | Applied Stresses | | | | | | | Combined (ksi) | Allowable Stress (Fb) (ksi) | Stress Ratio |
|---------------|------------------|-----------------|-----------------|---------------|-------------------|-------------------|-------|----------------|-----------------------------|--------------|
| | Axial (Y) (ksi) | Shear (X) (ksi) | Shear (Z) (ksi) | Torsion (ksi) | Bending (X) (ksi) | Bending (Z) (ksi) | | | | |
| 0.00 | 0.73 | 0.86 | 0.00 | 0.00 | 0.00 | 45.57 | 46.32 | 52.0 | 0.0 | 0.891 |
| 1.00 | 0.72 | 0.87 | 0.00 | 0.00 | 0.00 | 45.53 | 46.28 | 52.0 | 0.0 | 0.890 |
| 2.00 | 0.72 | 0.87 | 0.00 | 0.00 | 0.00 | 45.50 | 46.25 | 52.0 | 0.0 | 0.889 |
| 3.00 | 0.72 | 0.87 | 0.00 | 0.00 | 0.00 | 45.46 | 46.21 | 52.0 | 0.0 | 0.889 |
| 4.00 | 0.72 | 0.87 | 0.00 | 0.00 | 0.00 | 45.43 | 46.17 | 52.0 | 0.0 | 0.888 |
| 5.00 | 0.72 | 0.87 | 0.00 | 0.00 | 0.00 | 45.39 | 46.13 | 52.0 | 0.0 | 0.887 |
| 6.00 | 0.72 | 0.87 | 0.00 | 0.00 | 0.00 | 45.35 | 46.09 | 52.0 | 0.0 | 0.886 |
| 7.00 | 0.71 | 0.88 | 0.00 | 0.00 | 0.00 | 45.31 | 46.05 | 52.0 | 0.0 | 0.886 |
| 8.00 | 0.71 | 0.88 | 0.00 | 0.00 | 0.00 | 45.27 | 46.00 | 52.0 | 0.0 | 0.885 |
| 9.00 | 0.71 | 0.88 | 0.00 | 0.00 | 0.00 | 45.22 | 45.96 | 52.0 | 0.0 | 0.884 |
| 10.00 | 0.71 | 0.88 | 0.00 | 0.00 | 0.00 | 45.18 | 45.91 | 52.0 | 0.0 | 0.883 |
| 11.00 | 0.71 | 0.88 | 0.00 | 0.00 | 0.00 | 45.13 | 45.86 | 52.0 | 0.0 | 0.882 |
| 12.00 | 0.70 | 0.88 | 0.00 | 0.00 | 0.00 | 45.08 | 45.81 | 52.0 | 0.0 | 0.881 |
| 13.00 | 0.70 | 0.89 | 0.00 | 0.00 | 0.00 | 45.03 | 45.76 | 52.0 | 0.0 | 0.880 |
| 14.00 | 0.70 | 0.89 | 0.00 | 0.00 | 0.00 | 44.98 | 45.71 | 52.0 | 0.0 | 0.879 |
| 15.00 | 0.69 | 0.87 | 0.00 | 0.00 | 0.00 | 44.93 | 45.65 | 52.0 | 0.0 | 0.878 |
| 16.00 | 0.69 | 0.87 | 0.00 | 0.00 | 0.00 | 44.88 | 45.60 | 52.0 | 0.0 | 0.877 |
| 17.00 | 0.69 | 0.88 | 0.00 | 0.00 | 0.00 | 44.83 | 45.55 | 52.0 | 0.0 | 0.876 |
| 18.00 | 0.69 | 0.88 | 0.00 | 0.00 | 0.00 | 44.78 | 45.50 | 52.0 | 0.0 | 0.875 |
| 19.00 | 0.69 | 0.88 | 0.00 | 0.00 | 0.00 | 44.73 | 45.45 | 52.0 | 0.0 | 0.874 |
| 20.00 | 0.69 | 0.88 | 0.00 | 0.00 | 0.00 | 44.68 | 45.39 | 52.0 | 0.0 | 0.873 |
| 21.00 | 0.68 | 0.88 | 0.00 | 0.00 | 0.00 | 44.63 | 45.33 | 52.0 | 0.0 | 0.872 |
| 22.00 | 0.68 | 0.89 | 0.00 | 0.00 | 0.00 | 44.57 | 45.28 | 52.0 | 0.0 | 0.871 |
| 23.00 | 0.68 | 0.89 | 0.00 | 0.00 | 0.00 | 44.51 | 45.22 | 52.0 | 0.0 | 0.870 |
| 24.00 | 0.68 | 0.89 | 0.00 | 0.00 | 0.00 | 44.45 | 45.16 | 52.0 | 0.0 | 0.868 |
| 25.00 | 0.68 | 0.89 | 0.00 | 0.00 | 0.00 | 44.39 | 45.09 | 52.0 | 0.0 | 0.867 |
| 26.00 | 0.67 | 0.89 | 0.00 | 0.00 | 0.00 | 44.32 | 45.03 | 52.0 | 0.0 | 0.866 |
| 27.00 | 0.67 | 0.89 | 0.00 | 0.00 | 0.00 | 44.26 | 44.96 | 52.0 | 0.0 | 0.865 |
| 28.00 | 0.67 | 0.90 | 0.00 | 0.00 | 0.00 | 44.19 | 44.89 | 52.0 | 0.0 | 0.863 |
| 29.00 | 0.67 | 0.90 | 0.00 | 0.00 | 0.00 | 44.12 | 44.82 | 52.0 | 0.0 | 0.862 |
| 30.00 | 0.67 | 0.90 | 0.00 | 0.00 | 0.00 | 44.05 | 44.74 | 52.0 | 0.0 | 0.861 |
| 31.00 | 0.67 | 0.90 | 0.00 | 0.00 | 0.00 | 43.97 | 44.67 | 52.0 | 0.0 | 0.859 |
| 32.00 | 0.66 | 0.90 | 0.00 | 0.00 | 0.00 | 43.90 | 44.59 | 52.0 | 0.0 | 0.858 |
| 33.00 | 0.66 | 0.91 | 0.00 | 0.00 | 0.00 | 43.82 | 44.51 | 52.0 | 0.0 | 0.856 |
| 34.00 | 0.66 | 0.91 | 0.00 | 0.00 | 0.00 | 43.74 | 44.42 | 52.0 | 0.0 | 0.854 |
| 35.00 | 0.66 | 0.91 | 0.00 | 0.00 | 0.00 | 43.65 | 44.34 | 52.0 | 0.0 | 0.853 |
| 36.00 | 0.66 | 0.91 | 0.00 | 0.00 | 0.00 | 43.57 | 44.25 | 52.0 | 0.0 | 0.851 |
| 37.00 | 0.65 | 0.92 | 0.00 | 0.00 | 0.00 | 43.48 | 44.16 | 52.0 | 0.0 | 0.849 |
| 38.00 | 0.65 | 0.92 | 0.00 | 0.00 | 0.00 | 43.38 | 44.07 | 52.0 | 0.0 | 0.848 |
| 39.00 | 0.65 | 0.92 | 0.00 | 0.00 | 0.00 | 43.29 | 43.97 | 52.0 | 0.0 | 0.846 |
| 40.00 | 0.65 | 0.92 | 0.00 | 0.00 | 0.00 | 43.19 | 43.87 | 52.0 | 0.0 | 0.844 |
| 40.57 | 0.65 | 0.92 | 0.00 | 0.00 | 0.00 | 43.14 | 43.81 | 52.0 | 0.0 | 0.843 |
| 41.00 | 0.65 | 0.92 | 0.00 | 0.00 | 0.00 | 43.09 | 43.77 | 52.0 | 0.0 | 0.842 |
| 42.00 | 0.64 | 0.93 | 0.00 | 0.00 | 0.00 | 42.99 | 43.66 | 52.0 | 0.0 | 0.840 |
| 43.00 | 0.64 | 0.93 | 0.00 | 0.00 | 0.00 | 42.89 | 43.55 | 52.0 | 0.0 | 0.838 |
| 44.00 | 0.63 | 0.93 | 0.00 | 0.00 | 0.00 | 42.78 | 43.44 | 52.0 | 0.0 | 0.835 |
| 45.00 | 0.63 | 0.93 | 0.00 | 0.00 | 0.00 | 42.67 | 43.33 | 52.0 | 0.0 | 0.833 |
| 45.73 | 0.71 | 1.06 | 0.00 | 0.00 | 0.00 | 47.64 | 48.39 | 52.0 | 0.0 | 0.931 |
| 46.00 | 0.71 | 1.07 | 0.00 | 0.00 | 0.00 | 47.60 | 48.35 | 52.0 | 0.0 | 0.930 |
| 47.00 | 0.71 | 1.07 | 0.00 | 0.00 | 0.00 | 47.46 | 48.21 | 52.0 | 0.0 | 0.927 |
| 48.00 | 0.71 | 1.07 | 0.00 | 0.00 | 0.00 | 47.32 | 48.06 | 52.0 | 0.0 | 0.924 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

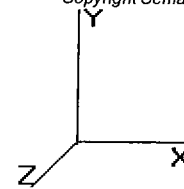
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Base Elev : 0.000 (ft)



Load Case: Ice 73.61 mph Wind with Ice 34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|--------|------|------|------|------|------|-------|-------|------|-----|-------|
| 49.00 | 0.71 | 1.07 | 0.00 | 0.00 | 0.00 | 47.17 | 47.91 | 52.0 | 0.0 | 0.921 |
| 50.00 | 0.71 | 1.08 | 0.00 | 0.00 | 0.00 | 47.01 | 47.76 | 52.0 | 0.0 | 0.918 |
| 51.00 | 0.70 | 1.08 | 0.00 | 0.00 | 0.00 | 46.86 | 47.60 | 52.0 | 0.0 | 0.915 |
| 52.00 | 0.70 | 1.08 | 0.00 | 0.00 | 0.00 | 46.70 | 47.44 | 52.0 | 0.0 | 0.912 |
| 53.00 | 0.70 | 1.08 | 0.00 | 0.00 | 0.00 | 46.53 | 47.27 | 52.0 | 0.0 | 0.909 |
| 54.00 | 0.70 | 1.08 | 0.00 | 0.00 | 0.00 | 46.37 | 47.10 | 52.0 | 0.0 | 0.906 |
| 55.00 | 0.70 | 1.08 | 0.00 | 0.00 | 0.00 | 46.19 | 46.93 | 52.0 | 0.0 | 0.903 |
| 56.00 | 0.69 | 1.09 | 0.00 | 0.00 | 0.00 | 46.02 | 46.75 | 52.0 | 0.0 | 0.899 |
| 57.00 | 0.69 | 1.09 | 0.00 | 0.00 | 0.00 | 45.84 | 46.57 | 52.0 | 0.0 | 0.896 |
| 58.00 | 0.69 | 1.09 | 0.00 | 0.00 | 0.00 | 45.66 | 46.39 | 52.0 | 0.0 | 0.892 |
| 59.00 | 0.69 | 1.09 | 0.00 | 0.00 | 0.00 | 45.47 | 46.20 | 52.0 | 0.0 | 0.888 |
| 60.00 | 0.69 | 1.09 | 0.00 | 0.00 | 0.00 | 45.28 | 46.00 | 52.0 | 0.0 | 0.885 |
| 61.00 | 0.68 | 1.09 | 0.00 | 0.00 | 0.00 | 45.08 | 45.80 | 52.0 | 0.0 | 0.881 |
| 62.00 | 0.68 | 1.09 | 0.00 | 0.00 | 0.00 | 44.88 | 45.60 | 52.0 | 0.0 | 0.877 |
| 63.00 | 0.68 | 1.09 | 0.00 | 0.00 | 0.00 | 44.68 | 45.40 | 52.0 | 0.0 | 0.873 |
| 64.00 | 0.68 | 1.09 | 0.00 | 0.00 | 0.00 | 44.48 | 45.19 | 52.0 | 0.0 | 0.869 |
| 65.00 | 0.68 | 1.10 | 0.00 | 0.00 | 0.00 | 44.27 | 44.98 | 52.0 | 0.0 | 0.865 |
| 66.00 | 0.67 | 1.10 | 0.00 | 0.00 | 0.00 | 44.05 | 44.76 | 52.0 | 0.0 | 0.861 |
| 67.00 | 0.67 | 1.10 | 0.00 | 0.00 | 0.00 | 43.83 | 44.54 | 52.0 | 0.0 | 0.857 |
| 68.00 | 0.67 | 1.10 | 0.00 | 0.00 | 0.00 | 43.60 | 44.31 | 52.0 | 0.0 | 0.852 |
| 69.00 | 0.67 | 1.11 | 0.00 | 0.00 | 0.00 | 43.37 | 44.08 | 52.0 | 0.0 | 0.848 |
| 70.00 | 0.67 | 1.11 | 0.00 | 0.00 | 0.00 | 43.13 | 43.84 | 52.0 | 0.0 | 0.843 |
| 71.00 | 0.67 | 1.11 | 0.00 | 0.00 | 0.00 | 42.89 | 43.59 | 52.0 | 0.0 | 0.838 |
| 72.00 | 0.66 | 1.11 | 0.00 | 0.00 | 0.00 | 42.64 | 43.34 | 52.0 | 0.0 | 0.834 |
| 73.00 | 0.66 | 1.12 | 0.00 | 0.00 | 0.00 | 42.38 | 43.09 | 52.0 | 0.0 | 0.829 |
| 74.00 | 0.66 | 1.12 | 0.00 | 0.00 | 0.00 | 42.12 | 42.82 | 52.0 | 0.0 | 0.824 |
| 75.00 | 0.66 | 1.12 | 0.00 | 0.00 | 0.00 | 41.85 | 42.55 | 52.0 | 0.0 | 0.818 |
| 76.00 | 0.66 | 1.12 | 0.00 | 0.00 | 0.00 | 41.57 | 42.27 | 52.0 | 0.0 | 0.813 |
| 77.00 | 0.66 | 1.13 | 0.00 | 0.00 | 0.00 | 41.29 | 41.99 | 52.0 | 0.0 | 0.808 |
| 78.00 | 0.65 | 1.13 | 0.00 | 0.00 | 0.00 | 41.00 | 41.70 | 52.0 | 0.0 | 0.802 |
| 79.00 | 0.65 | 1.13 | 0.00 | 0.00 | 0.00 | 40.70 | 41.40 | 52.0 | 0.0 | 0.796 |
| 80.00 | 0.65 | 1.13 | 0.00 | 0.00 | 0.00 | 40.39 | 41.09 | 52.0 | 0.0 | 0.790 |
| 81.00 | 0.65 | 1.13 | 0.00 | 0.00 | 0.00 | 40.08 | 40.77 | 52.0 | 0.0 | 0.784 |
| 81.11 | 0.65 | 1.13 | 0.00 | 0.00 | 0.00 | 40.04 | 40.74 | 52.0 | 0.0 | 0.783 |
| 82.00 | 0.64 | 1.13 | 0.00 | 0.00 | 0.00 | 39.76 | 40.45 | 52.0 | 0.0 | 0.778 |
| 83.00 | 0.64 | 1.13 | 0.00 | 0.00 | 0.00 | 39.44 | 40.12 | 52.0 | 0.0 | 0.772 |
| 84.00 | 0.63 | 1.14 | 0.00 | 0.00 | 0.00 | 39.10 | 39.79 | 52.0 | 0.0 | 0.765 |
| 85.00 | 0.63 | 1.14 | 0.00 | 0.00 | 0.00 | 38.76 | 39.44 | 52.0 | 0.0 | 0.759 |
| 85.87 | 0.74 | 1.34 | 0.00 | 0.00 | 0.00 | 44.15 | 44.95 | 52.0 | 0.0 | 0.864 |
| 86.00 | 0.74 | 1.34 | 0.00 | 0.00 | 0.00 | 44.10 | 44.90 | 52.0 | 0.0 | 0.863 |
| 87.00 | 0.73 | 1.34 | 0.00 | 0.00 | 0.00 | 43.68 | 44.47 | 52.0 | 0.0 | 0.855 |
| 88.00 | 0.73 | 1.35 | 0.00 | 0.00 | 0.00 | 43.24 | 44.04 | 52.0 | 0.0 | 0.847 |
| 89.00 | 0.73 | 1.35 | 0.00 | 0.00 | 0.00 | 42.80 | 43.59 | 52.0 | 0.0 | 0.838 |
| 90.00 | 0.73 | 1.35 | 0.00 | 0.00 | 0.00 | 42.34 | 43.13 | 52.0 | 0.0 | 0.830 |
| 91.00 | 0.73 | 1.36 | 0.00 | 0.00 | 0.00 | 41.87 | 42.66 | 52.0 | 0.0 | 0.821 |
| 92.00 | 0.73 | 1.36 | 0.00 | 0.00 | 0.00 | 41.39 | 42.18 | 52.0 | 0.0 | 0.811 |
| 93.00 | 0.73 | 1.36 | 0.00 | 0.00 | 0.00 | 40.90 | 41.69 | 52.0 | 0.0 | 0.802 |
| 94.00 | 0.73 | 1.37 | 0.00 | 0.00 | 0.00 | 40.39 | 41.18 | 52.0 | 0.0 | 0.792 |
| 95.00 | 0.72 | 1.37 | 0.00 | 0.00 | 0.00 | 39.87 | 40.67 | 52.0 | 0.0 | 0.782 |
| 96.00 | 0.72 | 1.37 | 0.00 | 0.00 | 0.00 | 39.34 | 40.13 | 52.0 | 0.0 | 0.772 |
| 97.00 | 0.72 | 1.38 | 0.00 | 0.00 | 0.00 | 38.79 | 39.59 | 52.0 | 0.0 | 0.761 |
| 98.00 | 0.72 | 1.38 | 0.00 | 0.00 | 0.00 | 38.23 | 39.03 | 52.0 | 0.0 | 0.751 |
| 99.00 | 0.72 | 1.38 | 0.00 | 0.00 | 0.00 | 37.66 | 38.45 | 52.0 | 0.0 | 0.740 |
| 100.00 | 0.72 | 1.39 | 0.00 | 0.00 | 0.00 | 37.07 | 37.86 | 52.0 | 0.0 | 0.728 |
| 101.00 | 0.72 | 1.39 | 0.00 | 0.00 | 0.00 | 36.46 | 37.26 | 52.0 | 0.0 | 0.717 |
| 102.00 | 0.72 | 1.39 | 0.00 | 0.00 | 0.00 | 35.84 | 36.64 | 52.0 | 0.0 | 0.705 |
| 103.00 | 0.72 | 1.40 | 0.00 | 0.00 | 0.00 | 35.20 | 36.00 | 52.0 | 0.0 | 0.692 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

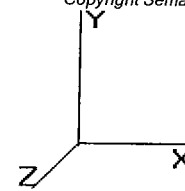
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Ice

73.61 mph Wind with Ice

34 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|--------|------|------|------|------|------|-------|-------|------|-----|-------|
| 104.00 | 0.71 | 1.40 | 0.00 | 0.00 | 0.00 | 34.55 | 35.34 | 52.0 | 0.0 | 0.680 |
| 105.00 | 0.70 | 1.36 | 0.00 | 0.00 | 0.00 | 33.87 | 34.65 | 52.0 | 0.0 | 0.666 |
| 106.00 | 0.70 | 1.36 | 0.00 | 0.00 | 0.00 | 33.22 | 34.00 | 52.0 | 0.0 | 0.654 |
| 107.00 | 0.70 | 1.37 | 0.00 | 0.00 | 0.00 | 32.55 | 33.33 | 52.0 | 0.0 | 0.641 |
| 108.00 | 0.70 | 1.37 | 0.00 | 0.00 | 0.00 | 31.85 | 32.64 | 52.0 | 0.0 | 0.628 |
| 109.00 | 0.70 | 1.38 | 0.00 | 0.00 | 0.00 | 31.15 | 31.93 | 52.0 | 0.0 | 0.614 |
| 110.00 | 0.70 | 1.38 | 0.00 | 0.00 | 0.00 | 30.42 | 31.20 | 52.0 | 0.0 | 0.600 |
| 111.00 | 0.70 | 1.38 | 0.00 | 0.00 | 0.00 | 29.67 | 30.46 | 52.0 | 0.0 | 0.586 |
| 112.00 | 0.69 | 1.39 | 0.00 | 0.00 | 0.00 | 28.90 | 29.69 | 52.0 | 0.0 | 0.571 |
| 113.00 | 0.69 | 1.39 | 0.00 | 0.00 | 0.00 | 28.11 | 28.90 | 52.0 | 0.0 | 0.556 |
| 114.00 | 0.69 | 1.40 | 0.00 | 0.00 | 0.00 | 27.29 | 28.09 | 52.0 | 0.0 | 0.540 |
| 115.00 | 0.55 | 1.14 | 0.00 | 0.00 | 0.00 | 26.46 | 27.08 | 52.0 | 0.0 | 0.521 |
| 116.00 | 0.55 | 1.14 | 0.00 | 0.00 | 0.00 | 25.84 | 26.46 | 52.0 | 0.0 | 0.509 |
| 117.00 | 0.55 | 1.14 | 0.00 | 0.00 | 0.00 | 25.20 | 25.83 | 52.0 | 0.0 | 0.497 |
| 118.00 | 0.55 | 1.14 | 0.00 | 0.00 | 0.00 | 24.55 | 25.18 | 52.0 | 0.0 | 0.484 |
| 119.00 | 0.55 | 1.14 | 0.00 | 0.00 | 0.00 | 23.88 | 24.51 | 52.0 | 0.0 | 0.471 |
| 120.00 | 0.55 | 1.14 | 0.00 | 0.00 | 0.00 | 23.19 | 23.82 | 52.0 | 0.0 | 0.458 |
| 121.00 | 0.55 | 1.15 | 0.00 | 0.00 | 0.00 | 22.48 | 23.11 | 52.0 | 0.0 | 0.445 |
| 122.00 | 0.55 | 1.15 | 0.00 | 0.00 | 0.00 | 21.75 | 22.39 | 52.0 | 0.0 | 0.431 |
| 122.22 | 0.55 | 1.15 | 0.00 | 0.00 | 0.00 | 21.59 | 22.23 | 52.0 | 0.0 | 0.427 |
| 123.00 | 0.54 | 1.15 | 0.00 | 0.00 | 0.00 | 21.01 | 21.64 | 52.0 | 0.0 | 0.416 |
| 124.00 | 0.54 | 1.15 | 0.00 | 0.00 | 0.00 | 20.24 | 20.87 | 52.0 | 0.0 | 0.401 |
| 125.00 | 0.54 | 1.15 | 0.00 | 0.00 | 0.00 | 19.44 | 20.08 | 52.0 | 0.0 | 0.386 |
| 126.00 | 0.54 | 1.16 | 0.00 | 0.00 | 0.00 | 18.63 | 19.27 | 52.0 | 0.0 | 0.371 |
| 126.40 | 0.87 | 1.89 | 0.00 | 0.00 | 0.00 | 29.13 | 30.18 | 48.9 | 0.0 | 0.617 |
| 127.00 | 0.87 | 1.89 | 0.00 | 0.00 | 0.00 | 28.33 | 29.38 | 49.1 | 0.0 | 0.599 |
| 128.00 | 0.87 | 1.90 | 0.00 | 0.00 | 0.00 | 26.95 | 28.01 | 49.3 | 0.0 | 0.568 |
| 129.00 | 0.87 | 1.90 | 0.00 | 0.00 | 0.00 | 25.52 | 26.60 | 49.5 | 0.0 | 0.537 |
| 130.00 | 0.71 | 1.50 | 0.00 | 0.00 | 0.00 | 24.06 | 24.91 | 49.8 | 0.0 | 0.500 |
| 131.00 | 0.71 | 1.50 | 0.00 | 0.00 | 0.00 | 22.96 | 23.81 | 50.0 | 0.0 | 0.476 |
| 132.00 | 0.71 | 1.50 | 0.00 | 0.00 | 0.00 | 21.83 | 22.69 | 50.2 | 0.0 | 0.452 |
| 133.00 | 0.71 | 1.50 | 0.00 | 0.00 | 0.00 | 20.67 | 21.54 | 50.5 | 0.0 | 0.427 |
| 134.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 19.48 | 20.35 | 50.7 | 0.0 | 0.401 |
| 135.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 18.25 | 19.13 | 50.9 | 0.0 | 0.376 |
| 136.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 16.98 | 17.88 | 51.2 | 0.0 | 0.349 |
| 137.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 15.68 | 16.60 | 51.4 | 0.0 | 0.323 |
| 138.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 14.35 | 15.28 | 51.7 | 0.0 | 0.296 |
| 139.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 12.97 | 13.93 | 51.9 | 0.0 | 0.268 |
| 140.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 11.55 | 12.54 | 52.0 | 0.0 | 0.241 |
| 141.00 | 0.71 | 1.51 | 0.00 | 0.00 | 0.00 | 10.09 | 11.11 | 52.0 | 0.0 | 0.214 |
| 142.00 | 0.44 | 0.85 | 0.00 | 0.00 | 0.00 | 8.58 | 9.14 | 52.0 | 0.0 | 0.176 |
| 143.00 | 0.44 | 0.84 | 0.00 | 0.00 | 0.00 | 7.79 | 8.36 | 52.0 | 0.0 | 0.161 |
| 144.00 | 0.44 | 0.84 | 0.00 | 0.00 | 0.00 | 6.98 | 7.56 | 52.0 | 0.0 | 0.145 |
| 145.00 | 0.44 | 0.83 | 0.00 | 0.00 | 0.00 | 6.15 | 6.74 | 52.0 | 0.0 | 0.130 |
| 146.00 | 0.44 | 0.83 | 0.00 | 0.00 | 0.00 | 5.30 | 5.92 | 52.0 | 0.0 | 0.114 |
| 146.00 | 0.20 | 0.37 | 0.00 | 0.00 | 0.00 | 2.87 | 3.13 | 33.6 | 0.0 | 0.093 |
| 147.00 | 0.19 | 0.36 | 0.00 | 0.00 | 0.00 | 2.35 | 2.62 | 33.6 | 0.0 | 0.078 |
| 148.00 | 0.19 | 0.36 | 0.00 | 0.00 | 0.00 | 1.84 | 2.12 | 33.6 | 0.0 | 0.063 |
| 149.00 | 0.18 | 0.35 | 0.00 | 0.00 | 0.00 | 1.33 | 1.63 | 33.6 | 0.0 | 0.049 |
| 150.00 | 0.04 | 0.07 | 0.00 | 0.00 | 0.00 | 0.80 | 0.85 | 33.6 | 0.0 | 0.025 |
| 151.00 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.71 | 0.76 | 33.6 | 0.0 | 0.023 |
| 152.00 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.62 | 0.67 | 33.6 | 0.0 | 0.020 |
| 153.00 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.54 | 0.58 | 33.6 | 0.0 | 0.017 |
| 154.00 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.47 | 0.50 | 33.6 | 0.0 | 0.015 |
| 155.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 0.41 | 0.41 | 33.6 | 0.0 | 0.012 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

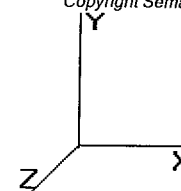
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

32 Iterations

Gust Response Factor : 1.69

Dead Load Factor : 1.00

Wind Load Factor : 1.00

Shaft Segment Forces

| Seg Top Elev (ft) | Description | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load (lb) | Tot Dead Load (lb) | |
|-------------------|-----------------|------|----------|------------|------------|--------|----------------|----------------|---------|-----------|-------------------|----------------|--------------------|-------|
| 0.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 208.33 | 1.030 | 0.00 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | |
| 1.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 207.45 | 1.030 | 0.00 | 1.00 | 4.158 | 4.28 | 46.3 | 0.0 | 237.1 |
| 2.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 206.57 | 1.030 | 0.00 | 1.00 | 4.140 | 4.26 | 46.1 | 0.0 | 236.1 |
| 3.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 205.70 | 1.030 | 0.00 | 1.00 | 4.123 | 4.25 | 45.9 | 0.0 | 235.1 |
| 4.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 204.82 | 1.030 | 0.00 | 1.00 | 4.105 | 4.23 | 45.7 | 0.0 | 234.1 |
| 5.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 203.94 | 1.030 | 0.00 | 1.00 | 4.088 | 4.21 | 45.5 | 0.0 | 233.0 |
| 6.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 203.06 | 1.030 | 0.00 | 1.00 | 4.070 | 4.19 | 45.3 | 0.0 | 232.0 |
| 7.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 202.19 | 1.030 | 0.00 | 1.00 | 4.053 | 4.17 | 45.1 | 0.0 | 231.0 |
| 8.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 201.31 | 1.030 | 0.00 | 1.00 | 4.035 | 4.16 | 45.0 | 0.0 | 230.0 |
| 9.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 200.43 | 1.030 | 0.00 | 1.00 | 4.017 | 4.14 | 44.8 | 0.0 | 229.0 |
| 10.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 199.55 | 1.030 | 0.00 | 1.00 | 4.000 | 4.12 | 44.6 | 0.0 | 228.0 |
| 11.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 198.68 | 1.030 | 0.00 | 1.00 | 3.982 | 4.10 | 44.4 | 0.0 | 227.0 |
| 12.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 197.80 | 1.030 | 0.00 | 1.00 | 3.965 | 4.08 | 44.2 | 0.0 | 226.0 |
| 13.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 196.92 | 1.030 | 0.00 | 1.00 | 3.947 | 4.07 | 44.0 | 0.0 | 225.0 |
| 14.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 196.04 | 1.030 | 0.00 | 1.00 | 3.930 | 4.05 | 43.8 | 0.0 | 224.0 |
| 15.00 | Annertunance(s) | 0.00 | 1.00 | 6.400 | 10.81 | 195.17 | 1.030 | 0.00 | 1.00 | 3.912 | 4.03 | 43.6 | 0.0 | 222.9 |
| 16.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 194.29 | 1.030 | 0.00 | 1.00 | 3.895 | 4.01 | 43.4 | 0.0 | 221.9 |
| 17.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 193.41 | 1.030 | 0.00 | 1.00 | 3.877 | 3.99 | 43.2 | 0.0 | 220.9 |
| 18.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 192.53 | 1.030 | 0.00 | 1.00 | 3.860 | 3.98 | 43.0 | 0.0 | 219.9 |
| 19.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 191.66 | 1.030 | 0.00 | 1.00 | 3.842 | 3.96 | 42.8 | 0.0 | 218.9 |
| 20.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 190.78 | 1.030 | 0.00 | 1.00 | 3.824 | 3.94 | 42.6 | 0.0 | 217.9 |
| 21.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 189.90 | 1.030 | 0.00 | 1.00 | 3.807 | 3.92 | 42.4 | 0.0 | 216.9 |
| 22.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 189.02 | 1.030 | 0.00 | 1.00 | 3.789 | 3.90 | 42.2 | 0.0 | 215.9 |
| 23.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 188.14 | 1.030 | 0.00 | 1.00 | 3.772 | 3.88 | 42.0 | 0.0 | 214.9 |
| 24.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 187.27 | 1.030 | 0.00 | 1.00 | 3.754 | 3.87 | 41.8 | 0.0 | 213.9 |
| 25.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 186.39 | 1.030 | 0.00 | 1.00 | 3.737 | 3.85 | 41.6 | 0.0 | 212.9 |
| 26.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 185.51 | 1.030 | 0.00 | 1.00 | 3.719 | 3.83 | 41.4 | 0.0 | 211.8 |
| 27.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 184.63 | 1.030 | 0.00 | 1.00 | 3.702 | 3.81 | 41.2 | 0.0 | 210.8 |
| 28.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 183.76 | 1.030 | 0.00 | 1.00 | 3.684 | 3.79 | 41.0 | 0.0 | 209.8 |
| 29.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 182.88 | 1.030 | 0.00 | 1.00 | 3.666 | 3.78 | 40.8 | 0.0 | 208.8 |
| 30.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 182.00 | 1.030 | 0.00 | 1.00 | 3.649 | 3.76 | 40.7 | 0.0 | 207.8 |
| 31.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 181.12 | 1.030 | 0.00 | 1.00 | 3.631 | 3.74 | 40.5 | 0.0 | 206.8 |
| 32.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 180.25 | 1.030 | 0.00 | 1.00 | 3.614 | 3.72 | 40.3 | 0.0 | 205.8 |
| 33.00 | | 0.00 | 1.00 | 6.400 | 10.81 | 179.37 | 1.030 | 0.00 | 1.00 | 3.596 | 3.70 | 40.1 | 0.0 | 204.8 |
| 34.00 | | 0.00 | 1.00 | 6.455 | 10.90 | 179.25 | 1.030 | 0.00 | 1.00 | 3.579 | 3.69 | 40.2 | 0.0 | 203.8 |
| 35.00 | | 0.00 | 1.01 | 6.509 | 10.99 | 179.11 | 1.030 | 0.00 | 1.00 | 3.561 | 3.67 | 40.3 | 0.0 | 202.8 |
| 36.00 | | 0.00 | 1.02 | 6.561 | 11.08 | 178.95 | 1.030 | 0.00 | 1.00 | 3.544 | 3.65 | 40.5 | 0.0 | 201.7 |
| 37.00 | | 0.00 | 1.03 | 6.613 | 11.17 | 178.76 | 1.030 | 0.00 | 1.00 | 3.526 | 3.63 | 40.6 | 0.0 | 200.7 |
| 38.00 | | 0.00 | 1.04 | 6.663 | 11.26 | 178.54 | 1.030 | 0.00 | 1.00 | 3.508 | 3.61 | 40.7 | 0.0 | 199.7 |
| 39.00 | | 0.00 | 1.04 | 6.713 | 11.34 | 178.31 | 1.030 | 0.00 | 1.00 | 3.491 | 3.60 | 40.8 | 0.0 | 198.7 |
| 40.00 | | 0.00 | 1.05 | 6.762 | 11.42 | 178.05 | 1.030 | 0.00 | 1.00 | 3.473 | 3.58 | 40.9 | 0.0 | 197.7 |
| 40.57 | Bot - Section 2 | 0.00 | 1.06 | 6.789 | 11.47 | 177.90 | 1.030 | 0.00 | 0.57 | 1.975 | 2.03 | 23.3 | 0.0 | 112.4 |
| 41.00 | | 0.00 | 1.06 | 6.809 | 11.50 | 177.78 | 1.030 | 0.00 | 0.43 | 1.508 | 1.55 | 17.9 | 0.0 | 158.0 |
| 42.00 | | 0.00 | 1.07 | 6.857 | 11.58 | 177.48 | 1.030 | 0.00 | 1.00 | 3.501 | 3.61 | 41.8 | 0.0 | 366.8 |
| 43.00 | | 0.00 | 1.07 | 6.903 | 11.66 | 177.17 | 1.030 | 0.00 | 1.00 | 3.483 | 3.59 | 41.9 | 0.0 | 364.9 |
| 44.00 | | 0.00 | 1.08 | 6.948 | 11.74 | 176.84 | 1.030 | 0.00 | 1.00 | 3.466 | 3.57 | 41.9 | 0.0 | 363.0 |
| 45.00 | | 0.00 | 1.09 | 6.993 | 11.81 | 176.49 | 1.030 | 0.00 | 1.00 | 3.448 | 3.55 | 42.0 | 0.0 | 361.1 |
| 45.73 | Top - Section 1 | 0.00 | 1.09 | 7.025 | 11.87 | 176.22 | 1.030 | 0.00 | 0.73 | 2.506 | 2.58 | 30.6 | 0.0 | 262.4 |
| 46.00 | | 0.00 | 1.10 | 7.037 | 11.89 | 179.40 | 1.030 | 0.00 | 0.27 | 0.925 | 0.95 | 11.3 | 0.0 | 45.2 |
| 47.00 | | 0.00 | 1.10 | 7.080 | 11.96 | 179.03 | 1.030 | 0.00 | 1.00 | 3.413 | 3.52 | 42.1 | 0.0 | 166.7 |
| 48.00 | | 0.00 | 1.11 | 7.123 | 12.03 | 178.64 | 1.030 | 0.00 | 1.00 | 3.395 | 3.50 | 42.1 | 0.0 | 165.9 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

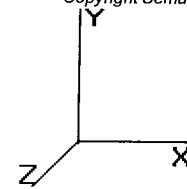
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | | | | | |
|-------|-----------------|------|------|-------|-------|--------|-------|------|------|-------|------|------|-----|-------|
| 49.00 | | 0.00 | 1.12 | 7.165 | 12.10 | 178.24 | 1.030 | 0.00 | 1.00 | 3.378 | 3.48 | 42.1 | 0.0 | 165.0 |
| 50.00 | | 0.00 | 1.12 | 7.207 | 12.17 | 177.82 | 1.030 | 0.00 | 1.00 | 3.360 | 3.46 | 42.2 | 0.0 | 164.1 |
| 51.00 | | 0.00 | 1.13 | 7.248 | 12.24 | 177.39 | 1.030 | 0.00 | 1.00 | 3.343 | 3.44 | 42.2 | 0.0 | 163.3 |
| 52.00 | | 0.00 | 1.13 | 7.288 | 12.31 | 176.95 | 1.030 | 0.00 | 1.00 | 3.325 | 3.43 | 42.2 | 0.0 | 162.4 |
| 53.00 | | 0.00 | 1.14 | 7.328 | 12.38 | 176.49 | 1.030 | 0.00 | 1.00 | 3.308 | 3.41 | 42.2 | 0.0 | 161.6 |
| 54.00 | | 0.00 | 1.15 | 7.367 | 12.45 | 176.02 | 1.030 | 0.00 | 1.00 | 3.290 | 3.39 | 42.2 | 0.0 | 160.7 |
| 55.00 | Appertunance(s) | 0.00 | 1.15 | 7.406 | 12.51 | 175.54 | 1.030 | 0.00 | 1.00 | 3.273 | 3.37 | 42.2 | 0.0 | 159.8 |
| 56.00 | | 0.00 | 1.16 | 7.444 | 12.58 | 175.05 | 1.030 | 0.00 | 1.00 | 3.255 | 3.35 | 42.2 | 0.0 | 159.0 |
| 57.00 | | 0.00 | 1.16 | 7.482 | 12.64 | 174.54 | 1.030 | 0.00 | 1.00 | 3.238 | 3.33 | 42.2 | 0.0 | 158.1 |
| 58.00 | | 0.00 | 1.17 | 7.519 | 12.70 | 174.03 | 1.030 | 0.00 | 1.00 | 3.220 | 3.32 | 42.1 | 0.0 | 157.2 |
| 59.00 | | 0.00 | 1.18 | 7.556 | 12.76 | 173.50 | 1.030 | 0.00 | 1.00 | 3.202 | 3.30 | 42.1 | 0.0 | 156.4 |
| 60.00 | | 0.00 | 1.18 | 7.592 | 12.83 | 172.96 | 1.030 | 0.00 | 1.00 | 3.185 | 3.28 | 42.1 | 0.0 | 155.5 |
| 61.00 | Appertunance(s) | 0.00 | 1.19 | 7.628 | 12.89 | 172.41 | 1.030 | 0.00 | 1.00 | 3.167 | 3.26 | 42.1 | 0.0 | 154.6 |
| 62.00 | | 0.00 | 1.19 | 7.664 | 12.95 | 171.85 | 1.030 | 0.00 | 1.00 | 3.150 | 3.24 | 42.0 | 0.0 | 153.8 |
| 63.00 | | 0.00 | 1.20 | 7.699 | 13.01 | 171.28 | 1.030 | 0.00 | 1.00 | 3.132 | 3.23 | 42.0 | 0.0 | 152.9 |
| 64.00 | | 0.00 | 1.20 | 7.733 | 13.06 | 170.70 | 1.030 | 0.00 | 1.00 | 3.115 | 3.21 | 41.9 | 0.0 | 152.0 |
| 65.00 | | 0.00 | 1.21 | 7.768 | 13.12 | 170.11 | 1.030 | 0.00 | 1.00 | 3.097 | 3.19 | 41.9 | 0.0 | 151.2 |
| 66.00 | | 0.00 | 1.21 | 7.802 | 13.18 | 169.52 | 1.030 | 0.00 | 1.00 | 3.080 | 3.17 | 41.8 | 0.0 | 150.3 |
| 67.00 | | 0.00 | 1.22 | 7.835 | 13.24 | 168.91 | 1.030 | 0.00 | 1.00 | 3.062 | 3.15 | 41.8 | 0.0 | 149.4 |
| 68.00 | | 0.00 | 1.22 | 7.869 | 13.29 | 168.29 | 1.030 | 0.00 | 1.00 | 3.044 | 3.14 | 41.7 | 0.0 | 148.6 |
| 69.00 | | 0.00 | 1.23 | 7.901 | 13.35 | 167.67 | 1.030 | 0.00 | 1.00 | 3.027 | 3.12 | 41.6 | 0.0 | 147.7 |
| 70.00 | | 0.00 | 1.24 | 7.934 | 13.40 | 167.04 | 1.030 | 0.00 | 1.00 | 3.009 | 3.10 | 41.6 | 0.0 | 146.8 |
| 71.00 | | 0.00 | 1.24 | 7.966 | 13.46 | 166.40 | 1.030 | 0.00 | 1.00 | 2.992 | 3.08 | 41.5 | 0.0 | 146.0 |
| 72.00 | | 0.00 | 1.25 | 7.998 | 13.51 | 165.75 | 1.030 | 0.00 | 1.00 | 2.974 | 3.06 | 41.4 | 0.0 | 145.1 |
| 73.00 | | 0.00 | 1.25 | 8.030 | 13.57 | 165.09 | 1.030 | 0.00 | 1.00 | 2.957 | 3.05 | 41.3 | 0.0 | 144.2 |
| 74.00 | | 0.00 | 1.26 | 8.061 | 13.62 | 164.43 | 1.030 | 0.00 | 1.00 | 2.939 | 3.03 | 41.2 | 0.0 | 143.4 |
| 75.00 | | 0.00 | 1.26 | 8.092 | 13.67 | 163.76 | 1.030 | 0.00 | 1.00 | 2.922 | 3.01 | 41.2 | 0.0 | 142.5 |
| 76.00 | | 0.00 | 1.26 | 8.123 | 13.72 | 163.08 | 1.030 | 0.00 | 1.00 | 2.904 | 2.99 | 41.1 | 0.0 | 141.6 |
| 77.00 | | 0.00 | 1.27 | 8.153 | 13.77 | 162.40 | 1.030 | 0.00 | 1.00 | 2.886 | 2.97 | 41.0 | 0.0 | 140.8 |
| 78.00 | | 0.00 | 1.27 | 8.183 | 13.82 | 161.70 | 1.030 | 0.00 | 1.00 | 2.869 | 2.96 | 40.9 | 0.0 | 139.9 |
| 79.00 | | 0.00 | 1.28 | 8.213 | 13.88 | 161.00 | 1.030 | 0.00 | 1.00 | 2.851 | 2.94 | 40.8 | 0.0 | 139.1 |
| 80.00 | | 0.00 | 1.28 | 8.242 | 13.93 | 160.30 | 1.030 | 0.00 | 1.00 | 2.834 | 2.92 | 40.7 | 0.0 | 138.2 |
| 81.00 | Appertunance(s) | 0.00 | 1.29 | 8.272 | 13.97 | 159.58 | 1.030 | 0.00 | 1.00 | 2.816 | 2.90 | 40.6 | 0.0 | 137.3 |
| 81.11 | Bot - Section 3 | 0.00 | 1.29 | 8.275 | 13.98 | 159.50 | 1.030 | 0.00 | 0.11 | 0.318 | 0.33 | 4.6 | 0.0 | 15.5 |
| 82.00 | | 0.00 | 1.29 | 8.301 | 14.02 | 158.86 | 1.030 | 0.00 | 0.89 | 2.527 | 2.60 | 36.5 | 0.0 | 223.9 |
| 83.00 | | 0.00 | 1.30 | 8.330 | 14.07 | 158.14 | 1.030 | 0.00 | 1.00 | 2.833 | 2.92 | 41.1 | 0.0 | 250.9 |
| 84.00 | | 0.00 | 1.30 | 8.358 | 14.12 | 157.41 | 1.030 | 0.00 | 1.00 | 2.816 | 2.90 | 41.0 | 0.0 | 249.3 |
| 85.00 | | 0.00 | 1.31 | 8.387 | 14.17 | 156.67 | 1.030 | 0.00 | 1.00 | 2.798 | 2.88 | 40.8 | 0.0 | 247.8 |
| 85.87 | Top - Section 2 | 0.00 | 1.31 | 8.411 | 14.21 | 156.02 | 1.030 | 0.00 | 0.87 | 2.422 | 2.49 | 35.5 | 0.0 | 214.4 |
| 86.00 | | 0.00 | 1.31 | 8.415 | 14.22 | 158.91 | 1.030 | 0.00 | 0.13 | 0.359 | 0.37 | 5.3 | 0.0 | 14.6 |
| 87.00 | | 0.00 | 1.31 | 8.442 | 14.26 | 158.16 | 1.030 | 0.00 | 1.00 | 2.763 | 2.85 | 40.6 | 0.0 | 112.5 |
| 88.00 | | 0.00 | 1.32 | 8.470 | 14.31 | 157.41 | 1.030 | 0.00 | 1.00 | 2.746 | 2.83 | 40.5 | 0.0 | 111.7 |
| 89.00 | | 0.00 | 1.32 | 8.497 | 14.36 | 156.66 | 1.030 | 0.00 | 1.00 | 2.728 | 2.81 | 40.4 | 0.0 | 111.0 |
| 90.00 | | 0.00 | 1.33 | 8.525 | 14.40 | 155.89 | 1.030 | 0.00 | 1.00 | 2.710 | 2.79 | 40.2 | 0.0 | 110.3 |
| 91.00 | | 0.00 | 1.33 | 8.552 | 14.45 | 155.13 | 1.030 | 0.00 | 1.00 | 2.693 | 2.77 | 40.1 | 0.0 | 109.6 |
| 92.00 | | 0.00 | 1.34 | 8.578 | 14.49 | 154.35 | 1.030 | 0.00 | 1.00 | 2.675 | 2.76 | 39.9 | 0.0 | 108.9 |
| 93.00 | | 0.00 | 1.34 | 8.605 | 14.54 | 153.57 | 1.030 | 0.00 | 1.00 | 2.658 | 2.74 | 39.8 | 0.0 | 108.1 |
| 94.00 | | 0.00 | 1.34 | 8.631 | 14.58 | 152.79 | 1.030 | 0.00 | 1.00 | 2.640 | 2.72 | 39.7 | 0.0 | 107.4 |
| 95.00 | | 0.00 | 1.35 | 8.657 | 14.63 | 152.00 | 1.030 | 0.00 | 1.00 | 2.623 | 2.70 | 39.5 | 0.0 | 106.7 |
| 96.00 | | 0.00 | 1.35 | 8.683 | 14.67 | 151.20 | 1.030 | 0.00 | 1.00 | 2.605 | 2.68 | 39.4 | 0.0 | 106.0 |
| 97.00 | | 0.00 | 1.36 | 8.709 | 14.71 | 150.41 | 1.030 | 0.00 | 1.00 | 2.588 | 2.67 | 39.2 | 0.0 | 105.2 |
| 98.00 | | 0.00 | 1.36 | 8.735 | 14.76 | 149.60 | 1.030 | 0.00 | 1.00 | 2.570 | 2.65 | 39.1 | 0.0 | 104.5 |
| 99.00 | | 0.00 | 1.36 | 8.760 | 14.80 | 148.79 | 1.030 | 0.00 | 1.00 | 2.552 | 2.63 | 38.9 | 0.0 | 103.8 |
| 100.0 | | 0.00 | 1.37 | 8.785 | 14.84 | 147.98 | 1.030 | 0.00 | 1.00 | 2.535 | 2.61 | 38.8 | 0.0 | 103.1 |
| 101.0 | | 0.00 | 1.37 | 8.810 | 14.88 | 147.16 | 1.030 | 0.00 | 1.00 | 2.517 | 2.59 | 38.6 | 0.0 | 102.4 |
| 102.0 | | 0.00 | 1.38 | 8.835 | 14.93 | 146.33 | 1.030 | 0.00 | 1.00 | 2.500 | 2.57 | 38.4 | 0.0 | 101.6 |
| 103.0 | | 0.00 | 1.38 | 8.860 | 14.97 | 145.51 | 1.030 | 0.00 | 1.00 | 2.482 | 2.56 | 38.3 | 0.0 | 100.9 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

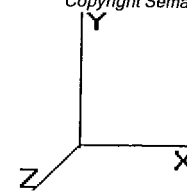
Code: TIA/EIA-222 Rev F

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Page: 50

Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | | | | | |
|---------|-----------------|------|------|-------|-------|--------|-------|--------|------|-------|------|---------|-----|----------|
| 104.0 | | 0.00 | 1.38 | 8.884 | 15.01 | 144.67 | 1.030 | 0.00 | 1.00 | 2.465 | 2.54 | 38.1 | 0.0 | 100.2 |
| 105.0 | Appertunance(s) | 0.00 | 1.39 | 8.908 | 15.05 | 143.83 | 1.030 | 0.00 | 1.00 | 2.447 | 2.52 | 37.9 | 0.0 | 99.5 |
| 106.0 | | 0.00 | 1.39 | 8.933 | 15.09 | 142.99 | 1.030 | 0.00 | 1.00 | 2.430 | 2.50 | 37.8 | 0.0 | 98.8 |
| 107.0 | | 0.00 | 1.39 | 8.957 | 15.13 | 142.15 | 1.030 | 0.00 | 1.00 | 2.412 | 2.48 | 37.6 | 0.0 | 98.0 |
| 108.0 | | 0.00 | 1.40 | 8.980 | 15.17 | 141.30 | 1.030 | 0.00 | 1.00 | 2.394 | 2.47 | 37.4 | 0.0 | 97.3 |
| 109.0 | | 0.00 | 1.40 | 9.004 | 15.21 | 140.44 | 1.030 | 0.00 | 1.00 | 2.377 | 2.45 | 37.3 | 0.0 | 96.6 |
| 110.0 | | 0.00 | 1.41 | 9.028 | 15.25 | 139.58 | 1.030 | 0.00 | 1.00 | 2.359 | 2.43 | 37.1 | 0.0 | 95.9 |
| 111.0 | | 0.00 | 1.41 | 9.051 | 15.29 | 138.72 | 1.030 | 0.00 | 1.00 | 2.342 | 2.41 | 36.9 | 0.0 | 95.2 |
| 112.0 | | 0.00 | 1.41 | 9.074 | 15.33 | 137.85 | 1.030 | 0.00 | 1.00 | 2.324 | 2.39 | 36.7 | 0.0 | 94.4 |
| 113.0 | | 0.00 | 1.42 | 9.097 | 15.37 | 136.98 | 1.030 | 0.00 | 1.00 | 2.307 | 2.38 | 36.5 | 0.0 | 93.7 |
| 114.0 | | 0.00 | 1.42 | 9.120 | 15.41 | 136.11 | 1.030 | 0.00 | 1.00 | 2.289 | 2.36 | 36.3 | 0.0 | 93.0 |
| 115.0 | Appertunance(s) | 0.00 | 1.42 | 9.143 | 15.45 | 135.23 | 1.030 | 0.00 | 1.00 | 2.272 | 2.34 | 36.2 | 0.0 | 92.3 |
| 116.0 | | 0.00 | 1.43 | 9.166 | 15.49 | 134.34 | 1.030 | 0.00 | 1.00 | 2.254 | 2.32 | 36.0 | 0.0 | 91.5 |
| 117.0 | | 0.00 | 1.43 | 9.188 | 15.52 | 133.46 | 1.030 | 0.00 | 1.00 | 2.237 | 2.30 | 35.8 | 0.0 | 90.8 |
| 118.0 | | 0.00 | 1.43 | 9.211 | 15.56 | 132.57 | 1.030 | 0.00 | 1.00 | 2.219 | 2.29 | 35.6 | 0.0 | 90.1 |
| 119.0 | | 0.00 | 1.44 | 9.233 | 15.60 | 131.67 | 1.030 | 0.00 | 1.00 | 2.201 | 2.27 | 35.4 | 0.0 | 89.4 |
| 120.0 | | 0.00 | 1.44 | 9.255 | 15.64 | 130.78 | 1.030 | 0.00 | 1.00 | 2.184 | 2.25 | 35.2 | 0.0 | 88.7 |
| 121.0 | | 0.00 | 1.45 | 9.277 | 15.67 | 129.87 | 1.030 | 0.00 | 1.00 | 2.166 | 2.23 | 35.0 | 0.0 | 87.9 |
| 122.0 | | 0.00 | 1.45 | 9.299 | 15.71 | 128.97 | 1.030 | 0.00 | 1.00 | 2.149 | 2.21 | 34.8 | 0.0 | 87.2 |
| 122.2 | Bot - Section 4 | 0.00 | 1.45 | 9.303 | 15.72 | 128.77 | 1.030 | 0.00 | 0.22 | 0.471 | 0.48 | 7.6 | 0.0 | 19.1 |
| 123.0 | | 0.00 | 1.45 | 9.320 | 15.75 | 128.06 | 1.030 | 0.00 | 0.78 | 1.685 | 1.74 | 27.3 | 0.0 | 108.6 |
| 124.0 | | 0.00 | 1.46 | 9.342 | 15.78 | 127.15 | 1.030 | 0.00 | 1.00 | 2.145 | 2.21 | 34.9 | 0.0 | 138.3 |
| 125.0 | | 0.00 | 1.46 | 9.363 | 15.82 | 126.23 | 1.030 | 0.00 | 1.00 | 2.127 | 2.19 | 34.7 | 0.0 | 137.1 |
| 126.0 | | 0.00 | 1.46 | 9.385 | 15.86 | 125.31 | 1.030 | 0.00 | 1.00 | 2.110 | 2.17 | 34.5 | 0.0 | 136.0 |
| 126.4 | Top - Section 3 | 0.00 | 1.46 | 9.393 | 15.87 | 124.94 | 1.030 | 0.00 | 0.40 | 0.845 | 0.87 | 13.8 | 0.0 | 54.5 |
| 127.0 | | 0.00 | 1.47 | 9.406 | 15.89 | 126.29 | 1.030 | 0.00 | 0.60 | 1.247 | 1.28 | 20.4 | 0.0 | 30.5 |
| 128.0 | | 0.00 | 1.47 | 9.427 | 15.93 | 125.36 | 1.030 | 0.00 | 1.00 | 2.075 | 2.14 | 34.0 | 0.0 | 50.8 |
| 129.0 | | 0.00 | 1.47 | 9.448 | 15.96 | 124.44 | 1.030 | 0.00 | 1.00 | 2.057 | 2.12 | 33.8 | 0.0 | 50.3 |
| 130.0 | Appertunance(s) | 0.00 | 1.48 | 9.469 | 16.00 | 123.51 | 1.030 | 0.00 | 1.00 | 2.040 | 2.10 | 33.6 | 0.0 | 49.9 |
| 131.0 | | 0.00 | 1.48 | 9.490 | 16.03 | 122.57 | 1.030 | 0.00 | 1.00 | 2.022 | 2.08 | 33.4 | 0.0 | 49.5 |
| 132.0 | | 0.00 | 1.48 | 9.510 | 16.07 | 121.64 | 1.030 | 0.00 | 1.00 | 2.004 | 2.06 | 33.2 | 0.0 | 49.0 |
| 133.0 | | 0.00 | 1.48 | 9.531 | 16.10 | 120.70 | 1.030 | 0.00 | 1.00 | 1.987 | 2.05 | 33.0 | 0.0 | 48.6 |
| 134.0 | | 0.00 | 1.49 | 9.551 | 16.14 | 119.75 | 1.030 | 0.00 | 1.00 | 1.969 | 2.03 | 32.7 | 0.0 | 48.2 |
| 135.0 | | 0.00 | 1.49 | 9.572 | 16.17 | 118.81 | 1.030 | 0.00 | 1.00 | 1.952 | 2.01 | 32.5 | 0.0 | 47.7 |
| 136.0 | | 0.00 | 1.49 | 9.592 | 16.21 | 117.86 | 1.030 | 0.00 | 1.00 | 1.934 | 1.99 | 32.3 | 0.0 | 47.3 |
| 137.0 | | 0.00 | 1.50 | 9.612 | 16.24 | 116.91 | 1.030 | 0.00 | 1.00 | 1.917 | 1.97 | 32.1 | 0.0 | 46.9 |
| 138.0 | | 0.00 | 1.50 | 9.632 | 16.27 | 115.95 | 1.030 | 0.00 | 1.00 | 1.899 | 1.96 | 31.8 | 0.0 | 46.4 |
| 139.0 | | 0.00 | 1.50 | 9.652 | 16.31 | 114.99 | 1.030 | 0.00 | 1.00 | 1.882 | 1.94 | 31.6 | 0.0 | 46.0 |
| 140.0 | | 0.00 | 1.51 | 9.672 | 16.34 | 114.03 | 1.030 | 0.00 | 1.00 | 1.864 | 1.92 | 31.4 | 0.0 | 45.6 |
| 141.0 | | 0.00 | 1.51 | 9.691 | 16.37 | 113.07 | 1.030 | 0.00 | 1.00 | 1.847 | 1.90 | 31.2 | 0.0 | 45.1 |
| 142.0 | Appertunance(s) | 0.00 | 1.51 | 9.711 | 16.41 | 112.10 | 1.030 | 0.00 | 1.00 | 1.829 | 1.88 | 30.9 | 0.0 | 44.7 |
| 143.0 | | 0.00 | 1.52 | 9.730 | 16.44 | 111.13 | 1.030 | 0.00 | 1.00 | 1.811 | 1.87 | 30.7 | 0.0 | 44.3 |
| 144.0 | | 0.00 | 1.52 | 9.750 | 16.47 | 110.16 | 1.030 | 0.00 | 1.00 | 1.794 | 1.85 | 30.4 | 0.0 | 43.8 |
| 145.0 | | 0.00 | 1.52 | 9.769 | 16.51 | 109.18 | 1.030 | 0.00 | 1.00 | 1.776 | 1.83 | 30.2 | 0.0 | 43.4 |
| 146.0 | Top - Section 4 | 0.00 | 1.52 | 9.788 | 16.54 | 108.21 | 1.030 | 0.00 | 1.00 | 1.759 | 1.81 | 30.0 | 0.0 | 43.0 |
| 147.0 | | 0.00 | 1.53 | 9.807 | 16.57 | 92.843 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.6 | 0.0 | 95.9 |
| 148.0 | | 0.00 | 1.53 | 9.826 | 16.60 | 92.933 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.7 | 0.0 | 95.9 |
| 149.0 | | 0.00 | 1.53 | 9.845 | 16.63 | 93.022 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.7 | 0.0 | 95.9 |
| 150.0 | Appertunance(s) | 0.00 | 1.54 | 9.864 | 16.67 | 93.111 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.8 | 0.0 | 95.9 |
| 151.0 | | 0.00 | 1.54 | 9.883 | 16.70 | 93.199 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.8 | 0.0 | 95.9 |
| 152.0 | | 0.00 | 1.54 | 9.902 | 16.73 | 93.287 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.9 | 0.0 | 95.9 |
| 153.0 | | 0.00 | 1.55 | 9.920 | 16.76 | 93.375 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 25.9 | 0.0 | 95.9 |
| 154.0 | | 0.00 | 1.55 | 9.939 | 16.79 | 93.462 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 26.0 | 0.0 | 95.9 |
| 155.0 | Appertunance(s) | 0.00 | 1.55 | 9.957 | 16.82 | 93.548 | 1.030 | 0.00 | 1.00 | 1.500 | 1.54 | 26.0 | 0.0 | 95.9 |
| Totals: | | | | | | | | 155.00 | | | | 6,003.8 | 0.0 | 23,238.7 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

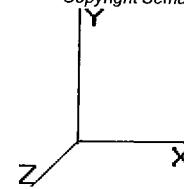
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Discrete Appurtenance Segment Forces

| Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | CaAa Factor | Total CaAa (sf) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) | Dead Load (lb) |
|-----------|----------------------|-----|----------|------------|-------------|-----------------|----------------|---------------|--------------|---------------|---------------|----------------|
| 15.00 | Dish Standard | 1 | 6.400 | 10.816 | 1.00 | 20.91 | 0.000 | 0.000 | 226.16 | 0.00 | 0.00 | 188.00 |
| 55.00 | 2" x 4" GPS | 1 | 7.412 | 12.526 | 1.00 | 0.04 | 0.000 | 0.167 | 0.50 | 0.00 | 0.08 | 5.00 |
| 55.00 | Stand Off | 1 | 7.406 | 12.516 | 1.00 | 2.00 | 0.000 | 0.000 | 25.03 | 0.00 | 0.00 | 50.00 |
| 61.00 | GPS | 2 | 7.646 | 12.921 | 1.00 | 2.00 | 0.000 | 0.500 | 25.84 | 0.00 | 12.92 | 20.00 |
| 61.00 | Stand Off | 2 | 7.628 | 12.891 | 1.00 | 4.00 | 0.000 | 0.000 | 51.57 | 0.00 | 0.00 | 100.00 |
| 81.00 | GPS | 1 | 8.286 | 14.004 | 1.00 | 1.00 | 0.000 | 0.500 | 14.00 | 0.00 | 7.00 | 10.00 |
| 81.00 | Stand Off | 1 | 8.272 | 13.979 | 1.00 | 2.00 | 0.000 | 0.000 | 27.96 | 0.00 | 0.00 | 50.00 |
| 105.0 | RFS APXV18- | 3 | 8.908 | 15.055 | 0.75 | 11.30 | 0.000 | 0.000 | 170.05 | 0.00 | 0.00 | 66.00 |
| 105.0 | Flush Mounts | 1 | 8.908 | 15.055 | 1.00 | 3.50 | 0.000 | 0.000 | 52.69 | 0.00 | 0.00 | 200.00 |
| 115.0 | 72" x 12" Panel | 3 | 9.143 | 15.452 | 0.67 | 16.88 | 0.000 | 0.000 | 260.89 | 0.00 | 0.00 | 120.00 |
| 115.0 | 48" x 12" Panel | 9 | 9.143 | 15.452 | 0.67 | 33.77 | 0.000 | 0.000 | 521.77 | 0.00 | 0.00 | 270.00 |
| 115.0 | Platform w/ Handrail | 1 | 9.143 | 15.452 | 1.00 | 27.00 | 0.000 | 0.000 | 417.20 | 0.00 | 0.00 | 2,500.00 |
| 130.0 | Decibel DB980H65T2E- | 5 | 9.469 | 16.003 | 0.73 | 13.87 | 0.000 | 0.000 | 221.96 | 0.00 | 0.00 | 42.50 |
| 130.0 | Decibel DB980H90A- | 4 | 9.469 | 16.003 | 0.73 | 11.10 | 0.000 | 0.000 | 177.56 | 0.00 | 0.00 | 34.00 |
| 130.0 | Flat Platform w/ Han | 1 | 9.469 | 16.003 | 1.00 | 33.00 | 0.000 | 0.000 | 528.08 | 0.00 | 0.00 | 2,000.00 |
| 142.0 | Andrew DB948F85E-M | 6 | 9.711 | 16.411 | 0.75 | 14.71 | 0.000 | 0.000 | 241.49 | 0.00 | 0.00 | 51.00 |
| 142.0 | Powerwave P65-15- | 3 | 9.711 | 16.411 | 0.79 | 13.27 | 0.000 | 0.000 | 217.81 | 0.00 | 0.00 | 63.00 |
| 142.0 | Swedcom ALP 9212-N | 6 | 9.711 | 16.411 | 1.00 | 27.12 | 0.000 | 0.000 | 445.08 | 0.00 | 0.00 | 160.20 |
| 142.0 | Platform w/ Handrail | 1 | 9.711 | 16.411 | 1.00 | 28.00 | 0.000 | 0.000 | 459.52 | 0.00 | 0.00 | 2,500.00 |
| 150.0 | 7' Omni | 1 | 9.929 | 16.781 | 1.00 | 2.10 | 0.000 | 3.500 | 35.24 | 0.00 | 123.34 | 15.00 |
| 150.0 | Powerwave 7770.00 | 3 | 9.864 | 16.670 | 0.74 | 13.05 | 0.000 | 0.000 | 217.61 | 0.00 | 0.00 | 105.00 |
| 150.0 | Platform w/ Handrail | 1 | 9.864 | 16.670 | 1.00 | 27.00 | 0.000 | 0.000 | 450.10 | 0.00 | 0.00 | 2,500.00 |
| 150.0 | CSS DUO4-8670 | 6 | 9.864 | 16.670 | 0.81 | 31.74 | 0.000 | 0.000 | 529.05 | 0.00 | 0.00 | 399.00 |
| 150.0 | ADC DD800 | 6 | 9.864 | 16.670 | 0.50 | 3.75 | 0.000 | 0.000 | 62.51 | 0.00 | 0.00 | 83.40 |
| 155.0 | Canister | 1 | 10.106 | 17.080 | 1.00 | 12.00 | 0.000 | 8.300 | 204.96 | 0.00 | 1,701.17 | 500.00 |
| | | | | | | | | | 5,584.64 | | | 12,032.10 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

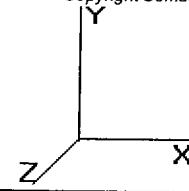
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Linear Appurtenance Segment Forces

| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Weight (lb/ft) | CaAa (sf/ft) | qz (psf) | FX (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|----------------|--------------|----------|---------|----------------|
| 1.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 1.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 1.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 2.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 2.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 2.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 3.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 3.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 3.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 4.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 4.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 4.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 5.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 5.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 5.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 6.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 6.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 6.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 7.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 7.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 7.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 8.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 8.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 8.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 9.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

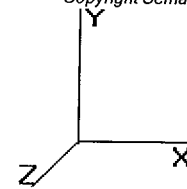
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Page: 53

Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|-------|------|------|
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 9.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 9.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 10.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 10.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 10.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 11.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 11.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 11.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 12.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 12.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 12.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 13.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 13.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 13.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 14.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 14.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 14.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 15.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 15.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 15.00 | (1) RG6 Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 16.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 16.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 17.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 17.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 18.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 18.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 19.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

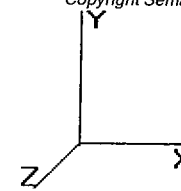
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|-------|------|------|
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 19.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 20.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 20.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 21.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 21.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 22.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 22.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 23.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 23.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 24.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 24.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 25.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 25.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 26.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 26.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 27.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 27.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 28.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 28.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 29.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 29.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 30.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 30.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

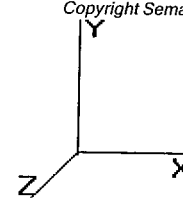
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway

50.00 mph Wind with No Ice

32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|-------|------|------|
| 31.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 31.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 32.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 32.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 33.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.400 | 0.00 | 2.46 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.400 | 0.65 | 0.15 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.400 | 0.65 | 0.30 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 33.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.400 | 0.00 | 0.15 |
| 34.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.455 | 0.00 | 2.46 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.455 | 0.65 | 0.15 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.455 | 0.65 | 0.30 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.455 | 0.00 | 0.15 |
| 34.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.455 | 0.00 | 0.15 |
| 35.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.509 | 0.00 | 2.46 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.509 | 0.66 | 0.15 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.509 | 0.66 | 0.30 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.509 | 0.00 | 0.15 |
| 35.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.509 | 0.00 | 0.15 |
| 36.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.561 | 0.00 | 2.46 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.561 | 0.67 | 0.15 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.561 | 0.67 | 0.30 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.561 | 0.00 | 0.15 |
| 36.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.561 | 0.00 | 0.15 |
| 37.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.613 | 0.00 | 2.46 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.613 | 0.67 | 0.15 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.613 | 0.67 | 0.30 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.613 | 0.00 | 0.15 |
| 37.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.613 | 0.00 | 0.15 |
| 38.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.663 | 0.00 | 2.46 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.663 | 0.68 | 0.15 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.663 | 0.68 | 0.30 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.663 | 0.00 | 0.15 |
| 38.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.663 | 0.00 | 0.15 |
| 39.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.713 | 0.00 | 2.46 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.713 | 0.68 | 0.15 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.713 | 0.68 | 0.30 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.713 | 0.00 | 0.15 |
| 39.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.713 | 0.00 | 0.15 |
| 40.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.762 | 0.00 | 2.46 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.762 | 0.69 | 0.15 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.762 | 0.69 | 0.30 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.762 | 0.00 | 0.15 |
| 40.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.762 | 0.00 | 0.15 |
| 40.57 | (3) 1 5/8" Coax | Yes | 0.57 | 2.46 | 0.00 | 6.789 | 0.00 | 1.40 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.15 | 0.06 | 6.789 | 0.39 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.30 | 0.06 | 6.789 | 0.39 | 0.17 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.15 | 0.00 | 6.789 | 0.00 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.15 | 0.00 | 6.789 | 0.00 | 0.09 |
| 41.00 | (3) 1 5/8" Coax | Yes | 0.43 | 2.46 | 0.00 | 6.809 | 0.00 | 1.06 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.15 | 0.06 | 6.809 | 0.30 | 0.06 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

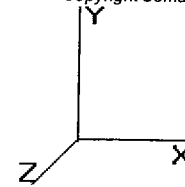
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

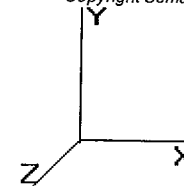
| | | | | | | | | |
|-------|-----------------|-----|------|------|------|-------|------|------|
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.30 | 0.06 | 6.809 | 0.30 | 0.13 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.15 | 0.00 | 6.809 | 0.00 | 0.06 |
| 41.00 | (1) 1/2" Coax | Yes | 0.43 | 0.15 | 0.00 | 6.809 | 0.00 | 0.06 |
| 42.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.857 | 0.00 | 2.46 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.857 | 0.70 | 0.15 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.857 | 0.70 | 0.30 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.857 | 0.00 | 0.15 |
| 42.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.857 | 0.00 | 0.15 |
| 43.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.903 | 0.00 | 2.46 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.903 | 0.70 | 0.15 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.903 | 0.70 | 0.30 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.903 | 0.00 | 0.15 |
| 43.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.903 | 0.00 | 0.15 |
| 44.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.948 | 0.00 | 2.46 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.948 | 0.70 | 0.15 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.948 | 0.70 | 0.30 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.948 | 0.00 | 0.15 |
| 44.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.948 | 0.00 | 0.15 |
| 45.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 6.993 | 0.00 | 2.46 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 6.993 | 0.71 | 0.15 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 6.993 | 0.71 | 0.30 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.993 | 0.00 | 0.15 |
| 45.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 6.993 | 0.00 | 0.15 |
| 45.73 | (3) 1 5/8" Coax | Yes | 0.73 | 2.46 | 0.00 | 7.025 | 0.00 | 1.80 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.15 | 0.06 | 7.025 | 0.52 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.30 | 0.06 | 7.025 | 0.52 | 0.22 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.15 | 0.00 | 7.025 | 0.00 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.15 | 0.00 | 7.025 | 0.00 | 0.11 |
| 46.00 | (3) 1 5/8" Coax | Yes | 0.27 | 2.46 | 0.00 | 7.037 | 0.00 | 0.66 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.15 | 0.06 | 7.037 | 0.19 | 0.04 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.30 | 0.06 | 7.037 | 0.19 | 0.08 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.15 | 0.00 | 7.037 | 0.00 | 0.04 |
| 46.00 | (1) 1/2" Coax | Yes | 0.27 | 0.15 | 0.00 | 7.037 | 0.00 | 0.04 |
| 47.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.080 | 0.00 | 2.46 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.080 | 0.72 | 0.15 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.080 | 0.72 | 0.30 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.080 | 0.00 | 0.15 |
| 47.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.080 | 0.00 | 0.15 |
| 48.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.123 | 0.00 | 2.46 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.123 | 0.72 | 0.15 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.123 | 0.72 | 0.30 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.123 | 0.00 | 0.15 |
| 48.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.123 | 0.00 | 0.15 |
| 49.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.165 | 0.00 | 2.46 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.165 | 0.73 | 0.15 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.165 | 0.73 | 0.30 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.165 | 0.00 | 0.15 |
| 49.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.165 | 0.00 | 0.15 |
| 50.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.207 | 0.00 | 2.46 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.207 | 0.73 | 0.15 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.207 | 0.73 | 0.30 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.207 | 0.00 | 0.15 |
| 50.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.207 | 0.00 | 0.15 |
| 51.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.248 | 0.00 | 2.46 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.248 | 0.73 | 0.15 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.248 | 0.73 | 0.30 |
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.248 | 0.00 | 0.15 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|-------|------|------|
| 51.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.248 | 0.00 | 0.15 |
| 52.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.288 | 0.00 | 2.46 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.288 | 0.74 | 0.15 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.288 | 0.74 | 0.30 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.288 | 0.00 | 0.15 |
| 52.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.288 | 0.00 | 0.15 |
| 53.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.328 | 0.00 | 2.46 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.328 | 0.74 | 0.15 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.328 | 0.74 | 0.30 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.328 | 0.00 | 0.15 |
| 53.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.328 | 0.00 | 0.15 |
| 54.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.367 | 0.00 | 2.46 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.367 | 0.75 | 0.15 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.367 | 0.75 | 0.30 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.367 | 0.00 | 0.15 |
| 54.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.367 | 0.00 | 0.15 |
| 55.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.406 | 0.00 | 2.46 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.406 | 0.75 | 0.15 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.406 | 0.75 | 0.30 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.406 | 0.00 | 0.15 |
| 55.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.406 | 0.00 | 0.15 |
| 56.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.444 | 0.00 | 2.46 |
| 56.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.444 | 0.75 | 0.15 |
| 56.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.444 | 0.75 | 0.30 |
| 56.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.444 | 0.00 | 0.15 |
| 57.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.482 | 0.00 | 2.46 |
| 57.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.482 | 0.76 | 0.15 |
| 57.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.482 | 0.76 | 0.30 |
| 57.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.482 | 0.00 | 0.15 |
| 58.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.519 | 0.00 | 2.46 |
| 58.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.519 | 0.76 | 0.15 |
| 58.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.519 | 0.76 | 0.30 |
| 58.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.519 | 0.00 | 0.15 |
| 59.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.556 | 0.00 | 2.46 |
| 59.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.556 | 0.77 | 0.15 |
| 59.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.556 | 0.77 | 0.30 |
| 59.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.556 | 0.00 | 0.15 |
| 60.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.592 | 0.00 | 2.46 |
| 60.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.592 | 0.77 | 0.15 |
| 60.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.592 | 0.77 | 0.30 |
| 60.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.592 | 0.00 | 0.15 |
| 61.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.628 | 0.00 | 2.46 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.628 | 0.77 | 0.15 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.30 | 0.06 | 7.628 | 0.77 | 0.30 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.00 | 7.628 | 0.00 | 0.15 |
| 62.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.664 | 0.00 | 2.46 |
| 62.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.664 | 0.78 | 0.15 |
| 63.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.699 | 0.00 | 2.46 |
| 63.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.699 | 0.78 | 0.15 |
| 64.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.733 | 0.00 | 2.46 |
| 64.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.733 | 0.78 | 0.15 |
| 65.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.768 | 0.00 | 2.46 |
| 65.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.768 | 0.79 | 0.15 |
| 66.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.802 | 0.00 | 2.46 |
| 66.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.802 | 0.79 | 0.15 |
| 67.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.835 | 0.00 | 2.46 |
| 67.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.835 | 0.79 | 0.15 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

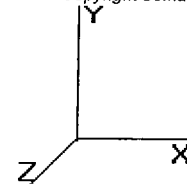
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|-------|-----------------|-----|------|------|------|-------|------|------|
| 68.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.869 | 0.00 | 2.46 |
| 68.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.869 | 0.80 | 0.15 |
| 69.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.901 | 0.00 | 2.46 |
| 69.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.901 | 0.80 | 0.15 |
| 70.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.934 | 0.00 | 2.46 |
| 70.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.934 | 0.80 | 0.15 |
| 71.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.966 | 0.00 | 2.46 |
| 71.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.966 | 0.81 | 0.15 |
| 72.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 7.998 | 0.00 | 2.46 |
| 72.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 7.998 | 0.81 | 0.15 |
| 73.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.030 | 0.00 | 2.46 |
| 73.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.030 | 0.81 | 0.15 |
| 74.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.061 | 0.00 | 2.46 |
| 74.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.061 | 0.82 | 0.15 |
| 75.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.092 | 0.00 | 2.46 |
| 75.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.092 | 0.82 | 0.15 |
| 76.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.123 | 0.00 | 2.46 |
| 76.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.123 | 0.82 | 0.15 |
| 77.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.153 | 0.00 | 2.46 |
| 77.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.153 | 0.83 | 0.15 |
| 78.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.183 | 0.00 | 2.46 |
| 78.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.183 | 0.83 | 0.15 |
| 79.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.213 | 0.00 | 2.46 |
| 79.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.213 | 0.83 | 0.15 |
| 80.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.242 | 0.00 | 2.46 |
| 80.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.242 | 0.84 | 0.15 |
| 81.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.272 | 0.00 | 2.46 |
| 81.00 | (1) 1/2" Coax | Yes | 1.00 | 0.15 | 0.06 | 8.272 | 0.84 | 0.15 |
| 81.11 | (3) 1 5/8" Coax | Yes | 0.11 | 2.46 | 0.00 | 8.275 | 0.00 | 0.28 |
| 82.00 | (3) 1 5/8" Coax | Yes | 0.89 | 2.46 | 0.00 | 8.301 | 0.00 | 2.18 |
| 83.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.330 | 0.00 | 2.46 |
| 84.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.358 | 0.00 | 2.46 |
| 85.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.387 | 0.00 | 2.46 |
| 85.87 | (3) 1 5/8" Coax | Yes | 0.87 | 2.46 | 0.00 | 8.411 | 0.00 | 2.14 |
| 86.00 | (3) 1 5/8" Coax | Yes | 0.13 | 2.46 | 0.00 | 8.415 | 0.00 | 0.32 |
| 87.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.442 | 0.00 | 2.46 |
| 88.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.470 | 0.00 | 2.46 |
| 89.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.497 | 0.00 | 2.46 |
| 90.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.525 | 0.00 | 2.46 |
| 91.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.552 | 0.00 | 2.46 |
| 92.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.578 | 0.00 | 2.46 |
| 93.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.605 | 0.00 | 2.46 |
| 94.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.631 | 0.00 | 2.46 |
| 95.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.657 | 0.00 | 2.46 |
| 96.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.683 | 0.00 | 2.46 |
| 97.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.709 | 0.00 | 2.46 |
| 98.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.735 | 0.00 | 2.46 |
| 99.00 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.760 | 0.00 | 2.46 |
| 100.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.785 | 0.00 | 2.46 |
| 101.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.810 | 0.00 | 2.46 |
| 102.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.835 | 0.00 | 2.46 |
| 103.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.860 | 0.00 | 2.46 |
| 104.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.884 | 0.00 | 2.46 |
| 105.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.908 | 0.00 | 2.46 |
| 106.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.933 | 0.00 | 2.46 |
| 107.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.957 | 0.00 | 2.46 |
| 108.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 8.980 | 0.00 | 2.46 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

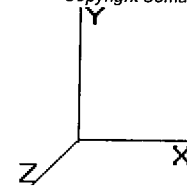
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Page: 59

Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | |
|----------------|-----------------|-----|------|------|------|-------|--------------|---------------|
| 109.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.004 | 0.00 | 2.46 |
| 110.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.028 | 0.00 | 2.46 |
| 111.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.051 | 0.00 | 2.46 |
| 112.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.074 | 0.00 | 2.46 |
| 113.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.097 | 0.00 | 2.46 |
| 114.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.120 | 0.00 | 2.46 |
| 115.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.143 | 0.00 | 2.46 |
| 116.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.166 | 0.00 | 2.46 |
| 117.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.188 | 0.00 | 2.46 |
| 118.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.211 | 0.00 | 2.46 |
| 119.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.233 | 0.00 | 2.46 |
| 120.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.255 | 0.00 | 2.46 |
| 121.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.277 | 0.00 | 2.46 |
| 122.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.299 | 0.00 | 2.46 |
| 122.2 | (3) 1 5/8" Coax | Yes | 0.22 | 2.46 | 0.00 | 9.303 | 0.00 | 0.54 |
| 123.0 | (3) 1 5/8" Coax | Yes | 0.78 | 2.46 | 0.00 | 9.320 | 0.00 | 1.92 |
| 124.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.342 | 0.00 | 2.46 |
| 125.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.363 | 0.00 | 2.46 |
| 126.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.385 | 0.00 | 2.46 |
| 126.4 | (3) 1 5/8" Coax | Yes | 0.40 | 2.46 | 0.00 | 9.393 | 0.00 | 0.99 |
| 127.0 | (3) 1 5/8" Coax | Yes | 0.60 | 2.46 | 0.00 | 9.406 | 0.00 | 1.47 |
| 128.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.427 | 0.00 | 2.46 |
| 129.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.448 | 0.00 | 2.46 |
| 130.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.469 | 0.00 | 2.46 |
| 131.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.490 | 0.00 | 2.46 |
| 132.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.510 | 0.00 | 2.46 |
| 133.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.531 | 0.00 | 2.46 |
| 134.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.551 | 0.00 | 2.46 |
| 135.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.572 | 0.00 | 2.46 |
| 136.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.592 | 0.00 | 2.46 |
| 137.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.612 | 0.00 | 2.46 |
| 138.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.632 | 0.00 | 2.46 |
| 139.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.652 | 0.00 | 2.46 |
| 140.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.672 | 0.00 | 2.46 |
| 141.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.691 | 0.00 | 2.46 |
| 142.0 | (3) 1 5/8" Coax | Yes | 1.00 | 2.46 | 0.00 | 9.711 | 0.00 | 2.46 |
| 143.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.730 | 0.00 | 1.89 |
| 144.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.750 | 0.00 | 1.89 |
| 145.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.769 | 0.00 | 1.89 |
| 146.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.788 | 0.00 | 1.89 |
| 147.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.807 | 0.00 | 1.89 |
| 148.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.826 | 0.00 | 1.89 |
| 149.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.845 | 0.00 | 1.89 |
| 150.0 | (3) 1 1/4" Coax | Yes | 1.00 | 1.89 | 0.00 | 9.864 | 0.00 | 1.89 |
| Totals: | | | | | | | 99.21 | 414.54 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

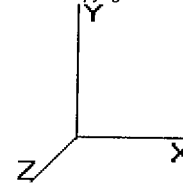
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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

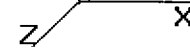
Applied Segment Forces Summary

| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|---------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 47.62 | 286.30 | 0.00 | 0.00 |
| 2.00 | 47.42 | 285.29 | 0.00 | 0.00 |
| 3.00 | 47.23 | 284.28 | 0.00 | 0.00 |
| 4.00 | 47.03 | 283.27 | 0.00 | 0.00 |
| 5.00 | 46.84 | 282.26 | 0.00 | 0.00 |
| 6.00 | 46.64 | 281.25 | 0.00 | 0.00 |
| 7.00 | 46.45 | 280.24 | 0.00 | 0.00 |
| 8.00 | 46.25 | 279.23 | 0.00 | 0.00 |
| 9.00 | 46.05 | 278.22 | 0.00 | 0.00 |
| 10.00 | 45.86 | 277.21 | 0.00 | 0.00 |
| 11.00 | 45.66 | 276.20 | 0.00 | 0.00 |
| 12.00 | 45.47 | 275.20 | 0.00 | 0.00 |
| 13.00 | 45.27 | 274.19 | 0.00 | 0.00 |
| 14.00 | 45.08 | 273.18 | 0.00 | 0.00 |
| 15.00 | 271.04 | 460.17 | 0.00 | 0.00 |
| 16.00 | 44.69 | 271.01 | 0.00 | 0.00 |
| 17.00 | 44.49 | 270.00 | 0.00 | 0.00 |
| 18.00 | 44.29 | 268.99 | 0.00 | 0.00 |
| 19.00 | 44.10 | 267.98 | 0.00 | 0.00 |
| 20.00 | 43.90 | 266.97 | 0.00 | 0.00 |
| 21.00 | 43.71 | 265.96 | 0.00 | 0.00 |
| 22.00 | 43.51 | 264.95 | 0.00 | 0.00 |
| 23.00 | 43.32 | 263.94 | 0.00 | 0.00 |
| 24.00 | 43.12 | 262.93 | 0.00 | 0.00 |
| 25.00 | 42.93 | 261.92 | 0.00 | 0.00 |
| 26.00 | 42.73 | 260.91 | 0.00 | 0.00 |
| 27.00 | 42.54 | 259.90 | 0.00 | 0.00 |
| 28.00 | 42.34 | 258.89 | 0.00 | 0.00 |
| 29.00 | 42.14 | 257.88 | 0.00 | 0.00 |
| 30.00 | 41.95 | 256.87 | 0.00 | 0.00 |
| 31.00 | 41.75 | 255.86 | 0.00 | 0.00 |
| 32.00 | 41.56 | 254.85 | 0.00 | 0.00 |
| 33.00 | 41.36 | 253.84 | 0.00 | 0.00 |
| 34.00 | 41.52 | 252.83 | 0.00 | 0.00 |
| 35.00 | 41.67 | 251.82 | 0.00 | 0.00 |
| 36.00 | 41.80 | 250.81 | 0.00 | 0.00 |
| 37.00 | 41.93 | 249.80 | 0.00 | 0.00 |
| 38.00 | 42.05 | 248.79 | 0.00 | 0.00 |
| 39.00 | 42.15 | 247.79 | 0.00 | 0.00 |
| 40.00 | 42.25 | 246.78 | 0.00 | 0.00 |
| 40.57 | 24.12 | 140.39 | 0.00 | 0.00 |
| 41.00 | 18.47 | 179.07 | 0.00 | 0.00 |
| 42.00 | 43.17 | 415.83 | 0.00 | 0.00 |
| 43.00 | 43.25 | 413.95 | 0.00 | 0.00 |
| 44.00 | 43.33 | 412.08 | 0.00 | 0.00 |
| 45.00 | 43.39 | 410.20 | 0.00 | 0.00 |
| 45.73 | 31.68 | 298.22 | 0.00 | 0.00 |
| 46.00 | 11.71 | 58.44 | 0.00 | 0.00 |
| 47.00 | 43.50 | 215.81 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway

50.00 mph Wind with No Ice

32 Iterations

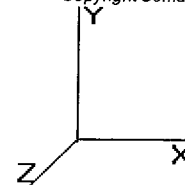
Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | |
|-------|--------|--------|------|-------|
| 48.00 | 43.55 | 214.95 | 0.00 | 0.00 |
| 49.00 | 43.58 | 214.08 | 0.00 | 0.00 |
| 50.00 | 43.62 | 213.22 | 0.00 | 0.00 |
| 51.00 | 43.64 | 212.35 | 0.00 | 0.00 |
| 52.00 | 43.66 | 211.49 | 0.00 | 0.00 |
| 53.00 | 43.68 | 210.62 | 0.00 | 0.00 |
| 54.00 | 43.69 | 209.75 | 0.00 | 0.00 |
| 55.00 | 69.22 | 263.89 | 0.00 | 0.08 |
| 56.00 | 43.69 | 207.87 | 0.00 | 0.00 |
| 57.00 | 43.68 | 207.01 | 0.00 | 0.00 |
| 58.00 | 43.67 | 206.14 | 0.00 | 0.00 |
| 59.00 | 43.65 | 205.28 | 0.00 | 0.00 |
| 60.00 | 43.63 | 204.41 | 0.00 | 0.00 |
| 61.00 | 121.01 | 323.55 | 0.00 | 12.92 |
| 62.00 | 42.79 | 202.23 | 0.00 | 0.00 |
| 63.00 | 42.76 | 201.37 | 0.00 | 0.00 |
| 64.00 | 42.71 | 200.50 | 0.00 | 0.00 |
| 65.00 | 42.66 | 199.64 | 0.00 | 0.00 |
| 66.00 | 42.61 | 198.77 | 0.00 | 0.00 |
| 67.00 | 42.56 | 197.90 | 0.00 | 0.00 |
| 68.00 | 42.50 | 197.04 | 0.00 | 0.00 |
| 69.00 | 42.43 | 196.17 | 0.00 | 0.00 |
| 70.00 | 42.37 | 195.31 | 0.00 | 0.00 |
| 71.00 | 42.29 | 194.44 | 0.00 | 0.00 |
| 72.00 | 42.22 | 193.58 | 0.00 | 0.00 |
| 73.00 | 42.14 | 192.71 | 0.00 | 0.00 |
| 74.00 | 42.06 | 191.85 | 0.00 | 0.00 |
| 75.00 | 41.97 | 190.98 | 0.00 | 0.00 |
| 76.00 | 41.88 | 190.12 | 0.00 | 0.00 |
| 77.00 | 41.79 | 189.25 | 0.00 | 0.00 |
| 78.00 | 41.70 | 188.39 | 0.00 | 0.00 |
| 79.00 | 41.60 | 187.52 | 0.00 | 0.00 |
| 80.00 | 41.49 | 186.65 | 0.00 | 0.00 |
| 81.00 | 83.35 | 245.79 | 0.00 | 7.00 |
| 81.11 | 4.57 | 20.95 | 0.00 | 0.00 |
| 82.00 | 36.52 | 266.72 | 0.00 | 0.00 |
| 83.00 | 41.08 | 299.25 | 0.00 | 0.00 |
| 84.00 | 40.97 | 297.67 | 0.00 | 0.00 |
| 85.00 | 40.85 | 296.08 | 0.00 | 0.00 |
| 85.87 | 35.46 | 256.49 | 0.00 | 0.00 |
| 86.00 | 5.25 | 20.85 | 0.00 | 0.00 |
| 87.00 | 40.61 | 160.78 | 0.00 | 0.00 |
| 88.00 | 40.48 | 160.06 | 0.00 | 0.00 |
| 89.00 | 40.35 | 159.34 | 0.00 | 0.00 |
| 90.00 | 40.22 | 158.62 | 0.00 | 0.00 |
| 91.00 | 40.08 | 157.90 | 0.00 | 0.00 |
| 92.00 | 39.95 | 157.17 | 0.00 | 0.00 |
| 93.00 | 39.81 | 156.45 | 0.00 | 0.00 |
| 94.00 | 39.67 | 155.73 | 0.00 | 0.00 |
| 95.00 | 39.52 | 155.01 | 0.00 | 0.00 |
| 96.00 | 39.38 | 154.29 | 0.00 | 0.00 |
| 97.00 | 39.23 | 153.57 | 0.00 | 0.00 |
| 98.00 | 39.07 | 152.85 | 0.00 | 0.00 |
| 99.00 | 38.92 | 152.13 | 0.00 | 0.00 |
| 100.0 | 38.76 | 151.40 | 0.00 | 0.00 |
| 101.0 | 38.61 | 150.68 | 0.00 | 0.00 |
| 102.0 | 38.44 | 149.96 | 0.00 | 0.00 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

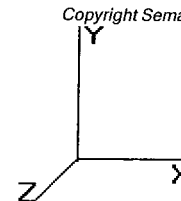
Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | |
|---------|-----------|-----------|------|----------|
| 103.0 | 38.28 | 149.24 | 0.00 | 0.00 |
| 104.0 | 38.12 | 148.52 | 0.00 | 0.00 |
| 105.0 | 260.69 | 413.80 | 0.00 | 0.00 |
| 106.0 | 37.78 | 142.08 | 0.00 | 0.00 |
| 107.0 | 37.61 | 141.36 | 0.00 | 0.00 |
| 108.0 | 37.43 | 140.64 | 0.00 | 0.00 |
| 109.0 | 37.25 | 139.91 | 0.00 | 0.00 |
| 110.0 | 37.08 | 139.19 | 0.00 | 0.00 |
| 111.0 | 36.90 | 138.47 | 0.00 | 0.00 |
| 112.0 | 36.71 | 137.75 | 0.00 | 0.00 |
| 113.0 | 36.53 | 137.03 | 0.00 | 0.00 |
| 114.0 | 36.34 | 136.31 | 0.00 | 0.00 |
| 115.0 | 1,236.01 | 3,025.59 | 0.00 | 0.00 |
| 116.0 | 35.96 | 124.87 | 0.00 | 0.00 |
| 117.0 | 35.77 | 124.15 | 0.00 | 0.00 |
| 118.0 | 35.58 | 123.42 | 0.00 | 0.00 |
| 119.0 | 35.38 | 122.70 | 0.00 | 0.00 |
| 120.0 | 35.18 | 121.98 | 0.00 | 0.00 |
| 121.0 | 34.98 | 121.26 | 0.00 | 0.00 |
| 122.0 | 34.78 | 120.54 | 0.00 | 0.00 |
| 122.2 | 7.62 | 26.43 | 0.00 | 0.00 |
| 123.0 | 27.34 | 134.63 | 0.00 | 0.00 |
| 124.0 | 34.88 | 171.59 | 0.00 | 0.00 |
| 125.0 | 34.67 | 170.44 | 0.00 | 0.00 |
| 126.0 | 34.47 | 169.28 | 0.00 | 0.00 |
| 126.4 | 13.82 | 67.90 | 0.00 | 0.00 |
| 127.0 | 20.42 | 50.40 | 0.00 | 0.00 |
| 128.0 | 34.05 | 84.08 | 0.00 | 0.00 |
| 129.0 | 33.83 | 83.65 | 0.00 | 0.00 |
| 130.0 | 961.22 | 2,159.72 | 0.00 | 0.00 |
| 131.0 | 33.40 | 75.28 | 0.00 | 0.00 |
| 132.0 | 33.18 | 74.85 | 0.00 | 0.00 |
| 133.0 | 32.96 | 74.42 | 0.00 | 0.00 |
| 134.0 | 32.74 | 73.99 | 0.00 | 0.00 |
| 135.0 | 32.52 | 73.55 | 0.00 | 0.00 |
| 136.0 | 32.30 | 73.12 | 0.00 | 0.00 |
| 137.0 | 32.07 | 72.69 | 0.00 | 0.00 |
| 138.0 | 31.84 | 72.26 | 0.00 | 0.00 |
| 139.0 | 31.61 | 71.82 | 0.00 | 0.00 |
| 140.0 | 31.38 | 71.39 | 0.00 | 0.00 |
| 141.0 | 31.15 | 70.96 | 0.00 | 0.00 |
| 142.0 | 1,394.82 | 2,844.72 | 0.00 | 0.00 |
| 143.0 | 30.68 | 57.79 | 0.00 | 0.00 |
| 144.0 | 30.44 | 57.36 | 0.00 | 0.00 |
| 145.0 | 30.21 | 56.93 | 0.00 | 0.00 |
| 146.0 | 29.97 | 56.50 | 0.00 | 0.00 |
| 147.0 | 25.61 | 109.39 | 0.00 | 0.00 |
| 148.0 | 25.66 | 109.39 | 0.00 | 0.00 |
| 149.0 | 25.71 | 109.39 | 0.00 | 0.00 |
| 150.0 | 1,320.27 | 3,211.79 | 0.00 | 123.34 |
| 151.0 | 25.80 | 100.87 | 0.00 | 0.00 |
| 152.0 | 25.85 | 100.87 | 0.00 | 0.00 |
| 153.0 | 25.90 | 100.87 | 0.00 | 0.00 |
| 154.0 | 25.95 | 100.87 | 0.00 | 0.00 |
| 155.0 | 230.96 | 600.87 | 0.00 | 1,701.17 |
| Totals: | 11,687.65 | 41,770.44 | 0.00 | 1,844.51 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Calculated Shaft Forces and Deflections

| Seg Elev (ft) | Lateral FX (-) (kips) | Axial FY (-) (kips) | Lateral FZ (kips) | Moment MX (ft-kips) | Torsion MY (ft-kips) | Moment MZ (ft-kips) | X Deflect (in) | Z Deflect (in) | Total Deflect (in) | Rotation (deg) |
|---------------|-----------------------|---------------------|-------------------|---------------------|----------------------|---------------------|----------------|----------------|--------------------|----------------|
| 0.00 | -11.692 | -41.769 | 0.000 | 0.000 | 0.000 | -1,216.182 | 0.000 | 0.000 | 0.000 | 0.000 |
| 1.00 | -11.656 | -41.479 | 0.000 | 0.000 | 0.000 | -1,204.491 | -0.002 | 0.000 | 0.002 | -0.016 |
| 2.00 | -11.620 | -41.191 | 0.000 | 0.000 | 0.000 | -1,192.835 | -0.007 | 0.000 | 0.007 | -0.032 |
| 3.00 | -11.583 | -40.903 | 0.000 | 0.000 | 0.000 | -1,181.216 | -0.015 | 0.000 | 0.015 | -0.047 |
| 4.00 | -11.547 | -40.617 | 0.000 | 0.000 | 0.000 | -1,169.633 | -0.027 | 0.000 | 0.027 | -0.063 |
| 5.00 | -11.511 | -40.331 | 0.000 | 0.000 | 0.000 | -1,158.086 | -0.042 | 0.000 | 0.042 | -0.079 |
| 6.00 | -11.476 | -40.047 | 0.000 | 0.000 | 0.000 | -1,146.574 | -0.060 | 0.000 | 0.060 | -0.095 |
| 7.00 | -11.440 | -39.764 | 0.000 | 0.000 | 0.000 | -1,135.099 | -0.082 | 0.000 | 0.082 | -0.111 |
| 8.00 | -11.404 | -39.481 | 0.000 | 0.000 | 0.000 | -1,123.660 | -0.107 | 0.000 | 0.107 | -0.127 |
| 9.00 | -11.368 | -39.200 | 0.000 | 0.000 | 0.000 | -1,112.256 | -0.136 | 0.000 | 0.136 | -0.143 |
| 10.00 | -11.333 | -38.920 | 0.000 | 0.000 | 0.000 | -1,100.888 | -0.168 | 0.000 | 0.168 | -0.159 |
| 11.00 | -11.297 | -38.640 | 0.000 | 0.000 | 0.000 | -1,089.555 | -0.203 | 0.000 | 0.203 | -0.176 |
| 12.00 | -11.262 | -38.362 | 0.000 | 0.000 | 0.000 | -1,078.258 | -0.241 | 0.000 | 0.241 | -0.192 |
| 13.00 | -11.226 | -38.085 | 0.000 | 0.000 | 0.000 | -1,066.997 | -0.284 | 0.000 | 0.284 | -0.208 |
| 14.00 | -11.191 | -37.809 | 0.000 | 0.000 | 0.000 | -1,055.771 | -0.329 | 0.000 | 0.329 | -0.225 |
| 15.00 | -10.929 | -37.347 | 0.000 | 0.000 | 0.000 | -1,044.580 | -0.378 | 0.000 | 0.378 | -0.241 |
| 16.00 | -10.894 | -37.073 | 0.000 | 0.000 | 0.000 | -1,033.651 | -0.430 | 0.000 | 0.430 | -0.257 |
| 17.00 | -10.859 | -36.800 | 0.000 | 0.000 | 0.000 | -1,022.758 | -0.486 | 0.000 | 0.486 | -0.274 |
| 18.00 | -10.823 | -36.528 | 0.000 | 0.000 | 0.000 | -1,011.900 | -0.545 | 0.000 | 0.545 | -0.291 |
| 19.00 | -10.789 | -36.257 | 0.000 | 0.000 | 0.000 | -1,001.076 | -0.608 | 0.000 | 0.608 | -0.307 |
| 20.00 | -10.754 | -35.987 | 0.000 | 0.000 | 0.000 | -990.288 | -0.674 | 0.000 | 0.674 | -0.324 |
| 21.00 | -10.719 | -35.718 | 0.000 | 0.000 | 0.000 | -979.535 | -0.744 | 0.000 | 0.744 | -0.341 |
| 22.00 | -10.684 | -35.450 | 0.000 | 0.000 | 0.000 | -968.816 | -0.817 | 0.000 | 0.817 | -0.357 |
| 23.00 | -10.649 | -35.184 | 0.000 | 0.000 | 0.000 | -958.132 | -0.894 | 0.000 | 0.894 | -0.374 |
| 24.00 | -10.615 | -34.918 | 0.000 | 0.000 | 0.000 | -947.483 | -0.974 | 0.000 | 0.974 | -0.391 |
| 25.00 | -10.580 | -34.653 | 0.000 | 0.000 | 0.000 | -936.869 | -1.058 | 0.000 | 1.058 | -0.408 |
| 26.00 | -10.546 | -34.389 | 0.000 | 0.000 | 0.000 | -926.289 | -1.145 | 0.000 | 1.145 | -0.425 |
| 27.00 | -10.512 | -34.127 | 0.000 | 0.000 | 0.000 | -915.743 | -1.236 | 0.000 | 1.236 | -0.442 |
| 28.00 | -10.477 | -33.865 | 0.000 | 0.000 | 0.000 | -905.232 | -1.331 | 0.000 | 1.331 | -0.459 |
| 29.00 | -10.443 | -33.604 | 0.000 | 0.000 | 0.000 | -894.755 | -1.429 | 0.000 | 1.429 | -0.476 |
| 30.00 | -10.409 | -33.345 | 0.000 | 0.000 | 0.000 | -884.312 | -1.530 | 0.000 | 1.530 | -0.493 |
| 31.00 | -10.375 | -33.086 | 0.000 | 0.000 | 0.000 | -873.903 | -1.636 | 0.000 | 1.636 | -0.510 |
| 32.00 | -10.341 | -32.829 | 0.000 | 0.000 | 0.000 | -863.529 | -1.744 | 0.000 | 1.744 | -0.528 |
| 33.00 | -10.307 | -32.572 | 0.000 | 0.000 | 0.000 | -853.188 | -1.857 | 0.000 | 1.857 | -0.545 |
| 34.00 | -10.273 | -32.317 | 0.000 | 0.000 | 0.000 | -842.881 | -1.973 | 0.000 | 1.973 | -0.562 |
| 35.00 | -10.238 | -32.062 | 0.000 | 0.000 | 0.000 | -832.609 | -2.093 | 0.000 | 2.093 | -0.580 |
| 36.00 | -10.204 | -31.809 | 0.000 | 0.000 | 0.000 | -822.370 | -2.216 | 0.000 | 2.216 | -0.597 |
| 37.00 | -10.169 | -31.556 | 0.000 | 0.000 | 0.000 | -812.167 | -2.343 | 0.000 | 2.343 | -0.615 |
| 38.00 | -10.134 | -31.305 | 0.000 | 0.000 | 0.000 | -801.998 | -2.474 | 0.000 | 2.474 | -0.632 |
| 39.00 | -10.098 | -31.054 | 0.000 | 0.000 | 0.000 | -791.865 | -2.608 | 0.000 | 2.608 | -0.650 |
| 40.00 | -10.061 | -30.806 | 0.000 | 0.000 | 0.000 | -781.767 | -2.746 | 0.000 | 2.746 | -0.667 |
| 40.57 | -10.040 | -30.664 | 0.000 | 0.000 | 0.000 | -776.025 | -2.826 | 0.000 | 2.826 | -0.677 |
| 41.00 | -10.026 | -30.483 | 0.000 | 0.000 | 0.000 | -771.716 | -2.888 | 0.000 | 2.888 | -0.685 |
| 42.00 | -9.987 | -30.064 | 0.000 | 0.000 | 0.000 | -761.690 | -3.033 | 0.000 | 3.033 | -0.703 |
| 43.00 | -9.948 | -29.648 | 0.000 | 0.000 | 0.000 | -751.703 | -3.182 | 0.000 | 3.182 | -0.720 |
| 44.00 | -9.908 | -29.233 | 0.000 | 0.000 | 0.000 | -741.756 | -3.335 | 0.000 | 3.335 | -0.738 |
| 45.00 | -9.867 | -28.821 | 0.000 | 0.000 | 0.000 | -731.848 | -3.492 | 0.000 | 3.492 | -0.756 |
| 45.73 | -9.836 | -28.522 | 0.000 | 0.000 | 0.000 | -724.646 | -3.608 | 0.000 | 3.608 | -0.769 |
| 46.00 | -9.830 | -28.462 | 0.000 | 0.000 | 0.000 | -721.990 | -3.652 | 0.000 | 3.652 | -0.774 |
| 47.00 | -9.793 | -28.243 | 0.000 | 0.000 | 0.000 | -712.160 | -3.816 | 0.000 | 3.816 | -0.794 |
| 48.00 | -9.756 | -28.025 | 0.000 | 0.000 | 0.000 | -702.368 | -3.985 | 0.000 | 3.985 | -0.813 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

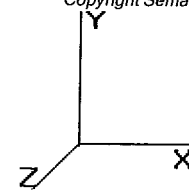
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

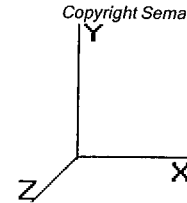
| | | | | | | | | | | |
|-------|--------|---------|-------|-------|-------|----------|---------|-------|--------|--------|
| 49.00 | -9.719 | -27.809 | 0.000 | 0.000 | 0.000 | -692.612 | -4.157 | 0.000 | 4.157 | -0.833 |
| 50.00 | -9.682 | -27.593 | 0.000 | 0.000 | 0.000 | -682.893 | -4.334 | 0.000 | 4.334 | -0.853 |
| 51.00 | -9.644 | -27.378 | 0.000 | 0.000 | 0.000 | -673.212 | -4.515 | 0.000 | 4.515 | -0.872 |
| 52.00 | -9.607 | -27.163 | 0.000 | 0.000 | 0.000 | -663.568 | -4.700 | 0.000 | 4.700 | -0.892 |
| 53.00 | -9.569 | -26.950 | 0.000 | 0.000 | 0.000 | -653.961 | -4.889 | 0.000 | 4.889 | -0.912 |
| 54.00 | -9.531 | -26.738 | 0.000 | 0.000 | 0.000 | -644.392 | -5.082 | 0.000 | 5.082 | -0.932 |
| 55.00 | -9.467 | -26.472 | 0.000 | 0.000 | 0.000 | -634.861 | -5.280 | 0.000 | 5.280 | -0.952 |
| 56.00 | -9.429 | -26.262 | 0.000 | 0.000 | 0.000 | -625.394 | -5.481 | 0.000 | 5.481 | -0.972 |
| 57.00 | -9.391 | -26.052 | 0.000 | 0.000 | 0.000 | -615.966 | -5.687 | 0.000 | 5.687 | -0.992 |
| 58.00 | -9.353 | -25.843 | 0.000 | 0.000 | 0.000 | -606.575 | -5.897 | 0.000 | 5.897 | -1.012 |
| 59.00 | -9.314 | -25.636 | 0.000 | 0.000 | 0.000 | -597.223 | -6.111 | 0.000 | 6.111 | -1.032 |
| 60.00 | -9.276 | -25.429 | 0.000 | 0.000 | 0.000 | -587.909 | -6.330 | 0.000 | 6.330 | -1.052 |
| 61.00 | -9.158 | -25.104 | 0.000 | 0.000 | 0.000 | -578.620 | -6.552 | 0.000 | 6.552 | -1.072 |
| 62.00 | -9.120 | -24.900 | 0.000 | 0.000 | 0.000 | -569.463 | -6.779 | 0.000 | 6.779 | -1.092 |
| 63.00 | -9.082 | -24.696 | 0.000 | 0.000 | 0.000 | -560.343 | -7.010 | 0.000 | 7.010 | -1.112 |
| 64.00 | -9.044 | -24.493 | 0.000 | 0.000 | 0.000 | -551.262 | -7.245 | 0.000 | 7.245 | -1.132 |
| 65.00 | -9.006 | -24.291 | 0.000 | 0.000 | 0.000 | -542.219 | -7.484 | 0.000 | 7.484 | -1.152 |
| 66.00 | -8.967 | -24.090 | 0.000 | 0.000 | 0.000 | -533.213 | -7.728 | 0.000 | 7.728 | -1.172 |
| 67.00 | -8.929 | -23.890 | 0.000 | 0.000 | 0.000 | -524.246 | -7.976 | 0.000 | 7.976 | -1.192 |
| 68.00 | -8.891 | -23.691 | 0.000 | 0.000 | 0.000 | -515.317 | -8.228 | 0.000 | 8.228 | -1.212 |
| 69.00 | -8.853 | -23.493 | 0.000 | 0.000 | 0.000 | -506.426 | -8.484 | 0.000 | 8.484 | -1.233 |
| 70.00 | -8.814 | -23.295 | 0.000 | 0.000 | 0.000 | -497.574 | -8.744 | 0.000 | 8.744 | -1.253 |
| 71.00 | -8.776 | -23.099 | 0.000 | 0.000 | 0.000 | -488.760 | -9.009 | 0.000 | 9.009 | -1.273 |
| 72.00 | -8.737 | -22.903 | 0.000 | 0.000 | 0.000 | -479.985 | -9.278 | 0.000 | 9.278 | -1.293 |
| 73.00 | -8.699 | -22.708 | 0.000 | 0.000 | 0.000 | -471.248 | -9.551 | 0.000 | 9.551 | -1.313 |
| 74.00 | -8.660 | -22.515 | 0.000 | 0.000 | 0.000 | -462.549 | -9.828 | 0.000 | 9.828 | -1.333 |
| 75.00 | -8.621 | -22.322 | 0.000 | 0.000 | 0.000 | -453.890 | -10.109 | 0.000 | 10.109 | -1.353 |
| 76.00 | -8.583 | -22.130 | 0.000 | 0.000 | 0.000 | -445.268 | -10.395 | 0.000 | 10.395 | -1.373 |
| 77.00 | -8.544 | -21.938 | 0.000 | 0.000 | 0.000 | -436.686 | -10.685 | 0.000 | 10.685 | -1.393 |
| 78.00 | -8.505 | -21.748 | 0.000 | 0.000 | 0.000 | -428.142 | -10.979 | 0.000 | 10.979 | -1.413 |
| 79.00 | -8.467 | -21.559 | 0.000 | 0.000 | 0.000 | -419.636 | -11.277 | 0.000 | 11.277 | -1.433 |
| 80.00 | -8.428 | -21.370 | 0.000 | 0.000 | 0.000 | -411.170 | -11.580 | 0.000 | 11.580 | -1.453 |
| 81.00 | -8.343 | -21.125 | 0.000 | 0.000 | 0.000 | -402.735 | -11.886 | 0.000 | 11.886 | -1.473 |
| 81.11 | -8.341 | -21.103 | 0.000 | 0.000 | 0.000 | -401.791 | -11.921 | 0.000 | 11.921 | -1.476 |
| 82.00 | -8.305 | -20.834 | 0.000 | 0.000 | 0.000 | -394.394 | -12.197 | 0.000 | 12.197 | -1.493 |
| 83.00 | -8.263 | -20.533 | 0.000 | 0.000 | 0.000 | -386.090 | -12.512 | 0.000 | 12.512 | -1.513 |
| 84.00 | -8.221 | -20.234 | 0.000 | 0.000 | 0.000 | -377.827 | -12.831 | 0.000 | 12.831 | -1.533 |
| 85.00 | -8.178 | -19.937 | 0.000 | 0.000 | 0.000 | -369.607 | -13.154 | 0.000 | 13.154 | -1.553 |
| 85.87 | -8.139 | -19.680 | 0.000 | 0.000 | 0.000 | -362.486 | -13.439 | 0.000 | 13.439 | -1.570 |
| 86.00 | -8.138 | -19.657 | 0.000 | 0.000 | 0.000 | -361.434 | -13.482 | 0.000 | 13.482 | -1.572 |
| 87.00 | -8.100 | -19.495 | 0.000 | 0.000 | 0.000 | -353.296 | -13.814 | 0.000 | 13.814 | -1.595 |
| 88.00 | -8.063 | -19.333 | 0.000 | 0.000 | 0.000 | -345.196 | -14.150 | 0.000 | 14.150 | -1.617 |
| 89.00 | -8.025 | -19.171 | 0.000 | 0.000 | 0.000 | -337.133 | -14.491 | 0.000 | 14.491 | -1.639 |
| 90.00 | -7.988 | -19.011 | 0.000 | 0.000 | 0.000 | -329.108 | -14.837 | 0.000 | 14.837 | -1.660 |
| 91.00 | -7.950 | -18.851 | 0.000 | 0.000 | 0.000 | -321.120 | -15.187 | 0.000 | 15.187 | -1.682 |
| 92.00 | -7.913 | -18.692 | 0.000 | 0.000 | 0.000 | -313.170 | -15.542 | 0.000 | 15.542 | -1.704 |
| 93.00 | -7.875 | -18.534 | 0.000 | 0.000 | 0.000 | -305.258 | -15.901 | 0.000 | 15.901 | -1.725 |
| 94.00 | -7.838 | -18.377 | 0.000 | 0.000 | 0.000 | -297.383 | -16.265 | 0.000 | 16.265 | -1.747 |
| 95.00 | -7.800 | -18.220 | 0.000 | 0.000 | 0.000 | -289.545 | -16.633 | 0.000 | 16.633 | -1.768 |
| 96.00 | -7.763 | -18.064 | 0.000 | 0.000 | 0.000 | -281.745 | -17.006 | 0.000 | 17.006 | -1.789 |
| 97.00 | -7.725 | -17.909 | 0.000 | 0.000 | 0.000 | -273.983 | -17.383 | 0.000 | 17.383 | -1.810 |
| 98.00 | -7.688 | -17.755 | 0.000 | 0.000 | 0.000 | -266.258 | -17.764 | 0.000 | 17.764 | -1.831 |
| 99.00 | -7.650 | -17.602 | 0.000 | 0.000 | 0.000 | -258.570 | -18.150 | 0.000 | 18.150 | -1.852 |
| 100.0 | -7.613 | -17.449 | 0.000 | 0.000 | 0.000 | -250.920 | -18.540 | 0.000 | 18.540 | -1.872 |
| 101.0 | -7.575 | -17.297 | 0.000 | 0.000 | 0.000 | -243.307 | -18.934 | 0.000 | 18.934 | -1.892 |
| 102.0 | -7.538 | -17.146 | 0.000 | 0.000 | 0.000 | -235.732 | -19.333 | 0.000 | 19.333 | -1.912 |
| 103.0 | -7.501 | -16.995 | 0.000 | 0.000 | 0.000 | -228.194 | -19.736 | 0.000 | 19.736 | -1.932 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|-------|--------|---------|-------|-------|-------|----------|---------|-------|--------|--------|
| 104.0 | -7.463 | -16.845 | 0.000 | 0.000 | 0.000 | -220.694 | -20.142 | 0.000 | 20.142 | -1.952 |
| 105.0 | -7.194 | -16.438 | 0.000 | 0.000 | 0.000 | -213.231 | -20.553 | 0.000 | 20.553 | -1.971 |
| 106.0 | -7.157 | -16.295 | 0.000 | 0.000 | 0.000 | -206.037 | -20.968 | 0.000 | 20.968 | -1.990 |
| 107.0 | -7.120 | -16.153 | 0.000 | 0.000 | 0.000 | -198.880 | -21.387 | 0.000 | 21.387 | -2.009 |
| 108.0 | -7.082 | -16.011 | 0.000 | 0.000 | 0.000 | -191.761 | -21.810 | 0.000 | 21.810 | -2.028 |
| 109.0 | -7.045 | -15.871 | 0.000 | 0.000 | 0.000 | -184.678 | -22.237 | 0.000 | 22.237 | -2.046 |
| 110.0 | -7.008 | -15.731 | 0.000 | 0.000 | 0.000 | -177.633 | -22.668 | 0.000 | 22.668 | -2.064 |
| 111.0 | -6.971 | -15.592 | 0.000 | 0.000 | 0.000 | -170.625 | -23.102 | 0.000 | 23.102 | -2.082 |
| 112.0 | -6.934 | -15.453 | 0.000 | 0.000 | 0.000 | -163.654 | -23.540 | 0.000 | 23.540 | -2.100 |
| 113.0 | -6.897 | -15.316 | 0.000 | 0.000 | 0.000 | -156.720 | -23.982 | 0.000 | 23.982 | -2.117 |
| 114.0 | -6.860 | -15.179 | 0.000 | 0.000 | 0.000 | -149.823 | -24.427 | 0.000 | 24.427 | -2.133 |
| 115.0 | -5.515 | -12.200 | 0.000 | 0.000 | 0.000 | -142.963 | -24.875 | 0.000 | 24.875 | -2.150 |
| 116.0 | -5.478 | -12.075 | 0.000 | 0.000 | 0.000 | -137.448 | -25.327 | 0.000 | 25.327 | -2.166 |
| 117.0 | -5.441 | -11.951 | 0.000 | 0.000 | 0.000 | -131.970 | -25.783 | 0.000 | 25.783 | -2.182 |
| 118.0 | -5.404 | -11.827 | 0.000 | 0.000 | 0.000 | -126.530 | -26.241 | 0.000 | 26.241 | -2.197 |
| 119.0 | -5.367 | -11.705 | 0.000 | 0.000 | 0.000 | -121.126 | -26.703 | 0.000 | 26.703 | -2.212 |
| 120.0 | -5.330 | -11.583 | 0.000 | 0.000 | 0.000 | -115.759 | -27.168 | 0.000 | 27.168 | -2.227 |
| 121.0 | -5.293 | -11.462 | 0.000 | 0.000 | 0.000 | -110.430 | -27.636 | 0.000 | 27.636 | -2.242 |
| 122.0 | -5.255 | -11.342 | 0.000 | 0.000 | 0.000 | -105.136 | -28.107 | 0.000 | 28.107 | -2.256 |
| 122.2 | -5.248 | -11.315 | 0.000 | 0.000 | 0.000 | -103.980 | -28.211 | 0.000 | 28.211 | -2.259 |
| 123.0 | -5.218 | -11.180 | 0.000 | 0.000 | 0.000 | -99.887 | -28.581 | 0.000 | 28.581 | -2.270 |
| 124.0 | -5.179 | -11.009 | 0.000 | 0.000 | 0.000 | -94.669 | -29.058 | 0.000 | 29.058 | -2.284 |
| 125.0 | -5.140 | -10.839 | 0.000 | 0.000 | 0.000 | -89.490 | -29.538 | 0.000 | 29.538 | -2.297 |
| 126.0 | -5.100 | -10.671 | 0.000 | 0.000 | 0.000 | -84.351 | -30.021 | 0.000 | 30.021 | -2.310 |
| 126.4 | -5.085 | -10.603 | 0.000 | 0.000 | 0.000 | -82.295 | -30.216 | 0.000 | 30.216 | -2.315 |
| 127.0 | -5.065 | -10.552 | 0.000 | 0.000 | 0.000 | -79.260 | -30.506 | 0.000 | 30.506 | -2.322 |
| 128.0 | -5.031 | -10.468 | 0.000 | 0.000 | 0.000 | -74.195 | -30.994 | 0.000 | 30.994 | -2.341 |
| 129.0 | -4.997 | -10.384 | 0.000 | 0.000 | 0.000 | -69.164 | -31.486 | 0.000 | 31.486 | -2.358 |
| 130.0 | -3.950 | -8.265 | 0.000 | 0.000 | 0.000 | -64.168 | -31.982 | 0.000 | 31.982 | -2.375 |
| 131.0 | -3.915 | -8.190 | 0.000 | 0.000 | 0.000 | -60.218 | -32.481 | 0.000 | 32.481 | -2.391 |
| 132.0 | -3.881 | -8.115 | 0.000 | 0.000 | 0.000 | -56.303 | -32.984 | 0.000 | 32.984 | -2.407 |
| 133.0 | -3.847 | -8.041 | 0.000 | 0.000 | 0.000 | -52.422 | -33.490 | 0.000 | 33.490 | -2.422 |
| 134.0 | -3.813 | -7.968 | 0.000 | 0.000 | 0.000 | -48.575 | -33.999 | 0.000 | 33.999 | -2.436 |
| 135.0 | -3.780 | -7.895 | 0.000 | 0.000 | 0.000 | -44.761 | -34.510 | 0.000 | 34.510 | -2.450 |
| 136.0 | -3.746 | -7.823 | 0.000 | 0.000 | 0.000 | -40.982 | -35.025 | 0.000 | 35.025 | -2.463 |
| 137.0 | -3.712 | -7.751 | 0.000 | 0.000 | 0.000 | -37.236 | -35.542 | 0.000 | 35.542 | -2.475 |
| 138.0 | -3.679 | -7.679 | 0.000 | 0.000 | 0.000 | -33.524 | -36.061 | 0.000 | 36.061 | -2.486 |
| 139.0 | -3.645 | -7.608 | 0.000 | 0.000 | 0.000 | -29.845 | -36.583 | 0.000 | 36.583 | -2.496 |
| 140.0 | -3.612 | -7.538 | 0.000 | 0.000 | 0.000 | -26.200 | -37.107 | 0.000 | 37.107 | -2.505 |
| 141.0 | -3.579 | -7.468 | 0.000 | 0.000 | 0.000 | -22.588 | -37.633 | 0.000 | 37.633 | -2.514 |
| 142.0 | -2.061 | -4.687 | 0.000 | 0.000 | 0.000 | -19.009 | -38.160 | 0.000 | 38.160 | -2.521 |
| 143.0 | -2.028 | -4.630 | 0.000 | 0.000 | 0.000 | -16.948 | -38.689 | 0.000 | 38.689 | -2.528 |
| 144.0 | -1.996 | -4.574 | 0.000 | 0.000 | 0.000 | -14.919 | -39.219 | 0.000 | 39.219 | -2.534 |
| 145.0 | -1.964 | -4.518 | 0.000 | 0.000 | 0.000 | -12.923 | -39.750 | 0.000 | 39.750 | -2.539 |
| 146.0 | -1.932 | -4.463 | 0.000 | 0.000 | 0.000 | -10.960 | -40.282 | 0.000 | 40.282 | -2.544 |
| 147.0 | -1.901 | -4.355 | 0.000 | 0.000 | 0.000 | -9.028 | -40.815 | 0.000 | 40.815 | -2.548 |
| 148.0 | -1.871 | -4.246 | 0.000 | 0.000 | 0.000 | -7.127 | -41.349 | 0.000 | 41.349 | -2.550 |
| 149.0 | -1.841 | -4.138 | 0.000 | 0.000 | 0.000 | -5.256 | -41.883 | 0.000 | 41.883 | -2.552 |
| 150.0 | -0.379 | -0.988 | 0.000 | 0.000 | 0.000 | -3.292 | -42.418 | 0.000 | 42.418 | -2.553 |
| 151.0 | -0.348 | -0.889 | 0.000 | 0.000 | 0.000 | -2.913 | -42.952 | 0.000 | 42.952 | -2.553 |
| 152.0 | -0.318 | -0.789 | 0.000 | 0.000 | 0.000 | -2.565 | -43.487 | 0.000 | 43.487 | -2.554 |
| 153.0 | -0.288 | -0.690 | 0.000 | 0.000 | 0.000 | -2.247 | -44.022 | 0.000 | 44.022 | -2.555 |
| 154.0 | -0.257 | -0.590 | 0.000 | 0.000 | 0.000 | -1.959 | -44.557 | 0.000 | 44.557 | -2.555 |
| 155.0 | -0.231 | 0.000 | 0.000 | 0.000 | 0.000 | -1.701 | -45.092 | 0.000 | 45.092 | -2.556 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

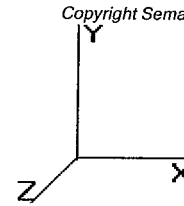
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

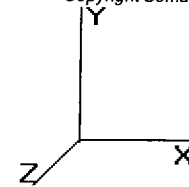
Calculated Stresses

| Seg Elev (ft) | Applied Stresses | | | | | | | Allowable Stress (Fb) (ksi) | Stress Ratio | |
|---------------|------------------|-----------------|-----------------|---------------|-------------------|-------------------|----------------|-----------------------------|--------------|-------|
| | Axial (Y) (ksi) | Shear (X) (ksi) | Shear (Z) (ksi) | Torsion (ksi) | Bending (X) (ksi) | Bending (Z) (ksi) | Combined (ksi) | | | |
| 0.00 | 0.60 | 0.34 | 0.00 | 0.00 | 0.00 | 17.25 | 17.86 | 52.0 | 0.0 | 0.344 |
| 1.00 | 0.60 | 0.34 | 0.00 | 0.00 | 0.00 | 17.24 | 17.84 | 52.0 | 0.0 | 0.343 |
| 2.00 | 0.60 | 0.34 | 0.00 | 0.00 | 0.00 | 17.22 | 17.82 | 52.0 | 0.0 | 0.343 |
| 3.00 | 0.59 | 0.34 | 0.00 | 0.00 | 0.00 | 17.20 | 17.80 | 52.0 | 0.0 | 0.342 |
| 4.00 | 0.59 | 0.34 | 0.00 | 0.00 | 0.00 | 17.18 | 17.78 | 52.0 | 0.0 | 0.342 |
| 5.00 | 0.59 | 0.34 | 0.00 | 0.00 | 0.00 | 17.15 | 17.75 | 52.0 | 0.0 | 0.341 |
| 6.00 | 0.59 | 0.34 | 0.00 | 0.00 | 0.00 | 17.13 | 17.73 | 52.0 | 0.0 | 0.341 |
| 7.00 | 0.59 | 0.34 | 0.00 | 0.00 | 0.00 | 17.11 | 17.71 | 52.0 | 0.0 | 0.341 |
| 8.00 | 0.59 | 0.34 | 0.00 | 0.00 | 0.00 | 17.09 | 17.68 | 52.0 | 0.0 | 0.340 |
| 9.00 | 0.58 | 0.34 | 0.00 | 0.00 | 0.00 | 17.07 | 17.66 | 52.0 | 0.0 | 0.340 |
| 10.00 | 0.58 | 0.34 | 0.00 | 0.00 | 0.00 | 17.04 | 17.63 | 52.0 | 0.0 | 0.339 |
| 11.00 | 0.58 | 0.34 | 0.00 | 0.00 | 0.00 | 17.02 | 17.61 | 52.0 | 0.0 | 0.339 |
| 12.00 | 0.58 | 0.35 | 0.00 | 0.00 | 0.00 | 16.99 | 17.58 | 52.0 | 0.0 | 0.338 |
| 13.00 | 0.58 | 0.35 | 0.00 | 0.00 | 0.00 | 16.97 | 17.56 | 52.0 | 0.0 | 0.338 |
| 14.00 | 0.58 | 0.35 | 0.00 | 0.00 | 0.00 | 16.94 | 17.53 | 52.0 | 0.0 | 0.337 |
| 15.00 | 0.57 | 0.34 | 0.00 | 0.00 | 0.00 | 16.92 | 17.50 | 52.0 | 0.0 | 0.337 |
| 16.00 | 0.57 | 0.34 | 0.00 | 0.00 | 0.00 | 16.89 | 17.47 | 52.0 | 0.0 | 0.336 |
| 17.00 | 0.57 | 0.34 | 0.00 | 0.00 | 0.00 | 16.87 | 17.45 | 52.0 | 0.0 | 0.336 |
| 18.00 | 0.57 | 0.34 | 0.00 | 0.00 | 0.00 | 16.84 | 17.42 | 52.0 | 0.0 | 0.335 |
| 19.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.82 | 17.39 | 52.0 | 0.0 | 0.335 |
| 20.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.79 | 17.37 | 52.0 | 0.0 | 0.334 |
| 21.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.77 | 17.34 | 52.0 | 0.0 | 0.333 |
| 22.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.74 | 17.31 | 52.0 | 0.0 | 0.333 |
| 23.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.71 | 17.28 | 52.0 | 0.0 | 0.332 |
| 24.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.69 | 17.25 | 52.0 | 0.0 | 0.332 |
| 25.00 | 0.56 | 0.34 | 0.00 | 0.00 | 0.00 | 16.66 | 17.22 | 52.0 | 0.0 | 0.331 |
| 26.00 | 0.55 | 0.35 | 0.00 | 0.00 | 0.00 | 16.63 | 17.19 | 52.0 | 0.0 | 0.331 |
| 27.00 | 0.55 | 0.35 | 0.00 | 0.00 | 0.00 | 16.60 | 17.16 | 52.0 | 0.0 | 0.330 |
| 28.00 | 0.55 | 0.35 | 0.00 | 0.00 | 0.00 | 16.57 | 17.13 | 52.0 | 0.0 | 0.329 |
| 29.00 | 0.55 | 0.35 | 0.00 | 0.00 | 0.00 | 16.53 | 17.09 | 52.0 | 0.0 | 0.329 |
| 30.00 | 0.55 | 0.35 | 0.00 | 0.00 | 0.00 | 16.50 | 17.06 | 52.0 | 0.0 | 0.328 |
| 31.00 | 0.55 | 0.35 | 0.00 | 0.00 | 0.00 | 16.47 | 17.02 | 52.0 | 0.0 | 0.327 |
| 32.00 | 0.54 | 0.35 | 0.00 | 0.00 | 0.00 | 16.43 | 16.99 | 52.0 | 0.0 | 0.327 |
| 33.00 | 0.54 | 0.35 | 0.00 | 0.00 | 0.00 | 16.40 | 16.95 | 52.0 | 0.0 | 0.326 |
| 34.00 | 0.54 | 0.35 | 0.00 | 0.00 | 0.00 | 16.36 | 16.91 | 52.0 | 0.0 | 0.325 |
| 35.00 | 0.54 | 0.35 | 0.00 | 0.00 | 0.00 | 16.33 | 16.88 | 52.0 | 0.0 | 0.325 |
| 36.00 | 0.54 | 0.35 | 0.00 | 0.00 | 0.00 | 16.29 | 16.84 | 52.0 | 0.0 | 0.324 |
| 37.00 | 0.54 | 0.35 | 0.00 | 0.00 | 0.00 | 16.25 | 16.80 | 52.0 | 0.0 | 0.323 |
| 38.00 | 0.53 | 0.35 | 0.00 | 0.00 | 0.00 | 16.21 | 16.76 | 52.0 | 0.0 | 0.322 |
| 39.00 | 0.53 | 0.35 | 0.00 | 0.00 | 0.00 | 16.17 | 16.71 | 52.0 | 0.0 | 0.321 |
| 40.00 | 0.53 | 0.35 | 0.00 | 0.00 | 0.00 | 16.13 | 16.67 | 52.0 | 0.0 | 0.321 |
| 40.57 | 0.53 | 0.35 | 0.00 | 0.00 | 0.00 | 16.10 | 16.65 | 52.0 | 0.0 | 0.320 |
| 41.00 | 0.53 | 0.35 | 0.00 | 0.00 | 0.00 | 16.09 | 16.63 | 52.0 | 0.0 | 0.320 |
| 42.00 | 0.52 | 0.35 | 0.00 | 0.00 | 0.00 | 16.04 | 16.58 | 52.0 | 0.0 | 0.319 |
| 43.00 | 0.52 | 0.35 | 0.00 | 0.00 | 0.00 | 16.00 | 16.53 | 52.0 | 0.0 | 0.318 |
| 44.00 | 0.51 | 0.35 | 0.00 | 0.00 | 0.00 | 15.95 | 16.48 | 52.0 | 0.0 | 0.317 |
| 45.00 | 0.51 | 0.36 | 0.00 | 0.00 | 0.00 | 15.91 | 16.43 | 52.0 | 0.0 | 0.316 |
| 45.73 | 0.58 | 0.41 | 0.00 | 0.00 | 0.00 | 17.76 | 18.35 | 52.0 | 0.0 | 0.353 |
| 46.00 | 0.58 | 0.41 | 0.00 | 0.00 | 0.00 | 17.74 | 18.33 | 52.0 | 0.0 | 0.353 |
| 47.00 | 0.58 | 0.41 | 0.00 | 0.00 | 0.00 | 17.68 | 18.27 | 52.0 | 0.0 | 0.351 |
| 48.00 | 0.58 | 0.41 | 0.00 | 0.00 | 0.00 | 17.62 | 18.21 | 52.0 | 0.0 | 0.350 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)

Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations
 Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|--------|------|------|------|------|------|-------|-------|------|-----|-------|
| 49.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.56 | 18.15 | 52.0 | 0.0 | 0.349 |
| 50.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.50 | 18.09 | 52.0 | 0.0 | 0.348 |
| 51.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.44 | 18.02 | 52.0 | 0.0 | 0.347 |
| 52.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.37 | 17.96 | 52.0 | 0.0 | 0.345 |
| 53.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.31 | 17.89 | 52.0 | 0.0 | 0.344 |
| 54.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.24 | 17.82 | 52.0 | 0.0 | 0.343 |
| 55.00 | 0.57 | 0.41 | 0.00 | 0.00 | 0.00 | 17.17 | 17.75 | 52.0 | 0.0 | 0.341 |
| 56.00 | 0.56 | 0.41 | 0.00 | 0.00 | 0.00 | 17.10 | 17.68 | 52.0 | 0.0 | 0.340 |
| 57.00 | 0.56 | 0.41 | 0.00 | 0.00 | 0.00 | 17.03 | 17.60 | 52.0 | 0.0 | 0.339 |
| 58.00 | 0.56 | 0.41 | 0.00 | 0.00 | 0.00 | 16.95 | 17.53 | 52.0 | 0.0 | 0.337 |
| 59.00 | 0.56 | 0.41 | 0.00 | 0.00 | 0.00 | 16.88 | 17.45 | 52.0 | 0.0 | 0.336 |
| 60.00 | 0.56 | 0.41 | 0.00 | 0.00 | 0.00 | 16.80 | 17.38 | 52.0 | 0.0 | 0.334 |
| 61.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.72 | 17.29 | 52.0 | 0.0 | 0.334 |
| 62.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.65 | 17.21 | 52.0 | 0.0 | 0.331 |
| 63.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.57 | 17.13 | 52.0 | 0.0 | 0.330 |
| 64.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.49 | 17.05 | 52.0 | 0.0 | 0.328 |
| 65.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.40 | 16.97 | 52.0 | 0.0 | 0.326 |
| 66.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.32 | 16.88 | 52.0 | 0.0 | 0.325 |
| 67.00 | 0.55 | 0.41 | 0.00 | 0.00 | 0.00 | 16.23 | 16.79 | 52.0 | 0.0 | 0.323 |
| 68.00 | 0.54 | 0.41 | 0.00 | 0.00 | 0.00 | 16.14 | 16.70 | 52.0 | 0.0 | 0.321 |
| 69.00 | 0.54 | 0.42 | 0.00 | 0.00 | 0.00 | 16.05 | 16.61 | 52.0 | 0.0 | 0.319 |
| 70.00 | 0.54 | 0.42 | 0.00 | 0.00 | 0.00 | 15.96 | 16.52 | 52.0 | 0.0 | 0.318 |
| 71.00 | 0.54 | 0.42 | 0.00 | 0.00 | 0.00 | 15.87 | 16.42 | 52.0 | 0.0 | 0.316 |
| 72.00 | 0.54 | 0.42 | 0.00 | 0.00 | 0.00 | 15.77 | 16.32 | 52.0 | 0.0 | 0.314 |
| 73.00 | 0.54 | 0.42 | 0.00 | 0.00 | 0.00 | 15.67 | 16.22 | 52.0 | 0.0 | 0.312 |
| 74.00 | 0.54 | 0.42 | 0.00 | 0.00 | 0.00 | 15.57 | 16.12 | 52.0 | 0.0 | 0.310 |
| 75.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 15.47 | 16.02 | 52.0 | 0.0 | 0.308 |
| 76.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 15.36 | 15.91 | 52.0 | 0.0 | 0.306 |
| 77.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 15.25 | 15.80 | 52.0 | 0.0 | 0.304 |
| 78.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 15.14 | 15.69 | 52.0 | 0.0 | 0.302 |
| 79.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 15.02 | 15.57 | 52.0 | 0.0 | 0.299 |
| 80.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 14.91 | 15.45 | 52.0 | 0.0 | 0.297 |
| 81.00 | 0.53 | 0.42 | 0.00 | 0.00 | 0.00 | 14.79 | 15.33 | 52.0 | 0.0 | 0.295 |
| 81.11 | 0.52 | 0.42 | 0.00 | 0.00 | 0.00 | 14.78 | 15.32 | 52.0 | 0.0 | 0.295 |
| 82.00 | 0.52 | 0.42 | 0.00 | 0.00 | 0.00 | 14.67 | 15.21 | 52.0 | 0.0 | 0.292 |
| 83.00 | 0.52 | 0.42 | 0.00 | 0.00 | 0.00 | 14.55 | 15.08 | 52.0 | 0.0 | 0.290 |
| 84.00 | 0.51 | 0.42 | 0.00 | 0.00 | 0.00 | 14.42 | 14.95 | 52.0 | 0.0 | 0.288 |
| 85.00 | 0.51 | 0.42 | 0.00 | 0.00 | 0.00 | 14.29 | 14.82 | 52.0 | 0.0 | 0.285 |
| 85.87 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 16.27 | 16.89 | 52.0 | 0.0 | 0.325 |
| 86.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 16.25 | 16.87 | 52.0 | 0.0 | 0.324 |
| 87.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 16.09 | 16.71 | 52.0 | 0.0 | 0.321 |
| 88.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 15.93 | 16.54 | 52.0 | 0.0 | 0.318 |
| 89.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 15.76 | 16.37 | 52.0 | 0.0 | 0.315 |
| 90.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 15.59 | 16.20 | 52.0 | 0.0 | 0.312 |
| 91.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 15.41 | 16.03 | 52.0 | 0.0 | 0.308 |
| 92.00 | 0.59 | 0.50 | 0.00 | 0.00 | 0.00 | 15.23 | 15.84 | 52.0 | 0.0 | 0.305 |
| 93.00 | 0.59 | 0.51 | 0.00 | 0.00 | 0.00 | 15.05 | 15.66 | 52.0 | 0.0 | 0.301 |
| 94.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 14.86 | 15.47 | 52.0 | 0.0 | 0.298 |
| 95.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 14.67 | 15.28 | 52.0 | 0.0 | 0.294 |
| 96.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 14.47 | 15.08 | 52.0 | 0.0 | 0.290 |
| 97.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 14.27 | 14.87 | 52.0 | 0.0 | 0.286 |
| 98.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 14.06 | 14.66 | 52.0 | 0.0 | 0.282 |
| 99.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 13.84 | 14.45 | 52.0 | 0.0 | 0.278 |
| 100.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 13.62 | 14.23 | 52.0 | 0.0 | 0.274 |
| 101.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 13.40 | 14.00 | 52.0 | 0.0 | 0.269 |
| 102.00 | 0.58 | 0.51 | 0.00 | 0.00 | 0.00 | 13.17 | 13.77 | 52.0 | 0.0 | 0.265 |
| 103.00 | 0.58 | 0.52 | 0.00 | 0.00 | 0.00 | 12.93 | 13.54 | 52.0 | 0.0 | 0.260 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
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 Taper : 0.210616 (in/ft)

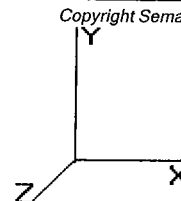
Code: TIA/EIA-222 Rev F

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Base Elev : 0.000 (ft)



Load Case: Twist/Sway 50.00 mph Wind with No Ice 32 Iterations

Gust Response Factor : 1.69
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

| | | | | | | | | | | |
|--------|------|------|------|------|------|-------|-------|------|-----|-------|
| 104.00 | 0.57 | 0.52 | 0.00 | 0.00 | 0.00 | 12.69 | 13.29 | 52.0 | 0.0 | 0.256 |
| 105.00 | 0.56 | 0.50 | 0.00 | 0.00 | 0.00 | 12.44 | 13.03 | 52.0 | 0.0 | 0.251 |
| 106.00 | 0.56 | 0.50 | 0.00 | 0.00 | 0.00 | 12.20 | 12.79 | 52.0 | 0.0 | 0.246 |
| 107.00 | 0.56 | 0.50 | 0.00 | 0.00 | 0.00 | 11.95 | 12.54 | 52.0 | 0.0 | 0.241 |
| 108.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 11.69 | 12.29 | 52.0 | 0.0 | 0.236 |
| 109.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 11.43 | 12.03 | 52.0 | 0.0 | 0.231 |
| 110.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 11.16 | 11.76 | 52.0 | 0.0 | 0.226 |
| 111.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 10.89 | 11.48 | 52.0 | 0.0 | 0.221 |
| 112.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 10.61 | 11.20 | 52.0 | 0.0 | 0.215 |
| 113.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 10.31 | 10.91 | 52.0 | 0.0 | 0.210 |
| 114.00 | 0.56 | 0.51 | 0.00 | 0.00 | 0.00 | 10.02 | 10.61 | 52.0 | 0.0 | 0.204 |
| 115.00 | 0.45 | 0.41 | 0.00 | 0.00 | 0.00 | 9.71 | 10.19 | 52.0 | 0.0 | 0.196 |
| 116.00 | 0.45 | 0.42 | 0.00 | 0.00 | 0.00 | 9.48 | 9.96 | 52.0 | 0.0 | 0.192 |
| 117.00 | 0.45 | 0.42 | 0.00 | 0.00 | 0.00 | 9.25 | 9.73 | 52.0 | 0.0 | 0.187 |
| 118.00 | 0.45 | 0.42 | 0.00 | 0.00 | 0.00 | 9.01 | 9.49 | 52.0 | 0.0 | 0.183 |
| 119.00 | 0.45 | 0.42 | 0.00 | 0.00 | 0.00 | 8.77 | 9.25 | 52.0 | 0.0 | 0.178 |
| 120.00 | 0.45 | 0.42 | 0.00 | 0.00 | 0.00 | 8.52 | 9.00 | 52.0 | 0.0 | 0.173 |
| 121.00 | 0.45 | 0.42 | 0.00 | 0.00 | 0.00 | 8.26 | 8.74 | 52.0 | 0.0 | 0.168 |
| 122.00 | 0.44 | 0.42 | 0.00 | 0.00 | 0.00 | 8.00 | 8.47 | 52.0 | 0.0 | 0.163 |
| 122.22 | 0.44 | 0.42 | 0.00 | 0.00 | 0.00 | 7.94 | 8.42 | 52.0 | 0.0 | 0.162 |
| 123.00 | 0.44 | 0.42 | 0.00 | 0.00 | 0.00 | 7.73 | 8.20 | 52.0 | 0.0 | 0.158 |
| 124.00 | 0.44 | 0.42 | 0.00 | 0.00 | 0.00 | 7.45 | 7.92 | 52.0 | 0.0 | 0.152 |
| 125.00 | 0.44 | 0.42 | 0.00 | 0.00 | 0.00 | 7.16 | 7.63 | 52.0 | 0.0 | 0.147 |
| 126.00 | 0.43 | 0.42 | 0.00 | 0.00 | 0.00 | 6.87 | 7.34 | 52.0 | 0.0 | 0.141 |
| 126.40 | 0.70 | 0.69 | 0.00 | 0.00 | 0.00 | 10.74 | 11.51 | 48.9 | 0.0 | 0.235 |
| 127.00 | 0.70 | 0.69 | 0.00 | 0.00 | 0.00 | 10.45 | 11.22 | 49.1 | 0.0 | 0.229 |
| 128.00 | 0.70 | 0.69 | 0.00 | 0.00 | 0.00 | 9.95 | 10.73 | 49.3 | 0.0 | 0.218 |
| 129.00 | 0.71 | 0.69 | 0.00 | 0.00 | 0.00 | 9.44 | 10.22 | 49.5 | 0.0 | 0.206 |
| 130.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 8.91 | 9.53 | 49.8 | 0.0 | 0.191 |
| 131.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 8.51 | 9.13 | 50.0 | 0.0 | 0.183 |
| 132.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 8.10 | 8.72 | 50.2 | 0.0 | 0.174 |
| 133.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 7.68 | 8.30 | 50.5 | 0.0 | 0.164 |
| 134.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 7.25 | 7.87 | 50.7 | 0.0 | 0.155 |
| 135.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 6.80 | 7.43 | 50.9 | 0.0 | 0.146 |
| 136.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 6.34 | 6.97 | 51.2 | 0.0 | 0.136 |
| 137.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 5.87 | 6.50 | 51.4 | 0.0 | 0.126 |
| 138.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 5.38 | 6.02 | 51.7 | 0.0 | 0.117 |
| 139.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 4.88 | 5.53 | 51.9 | 0.0 | 0.107 |
| 140.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 4.37 | 5.03 | 52.0 | 0.0 | 0.097 |
| 141.00 | 0.57 | 0.55 | 0.00 | 0.00 | 0.00 | 3.84 | 4.51 | 52.0 | 0.0 | 0.087 |
| 142.00 | 0.36 | 0.32 | 0.00 | 0.00 | 0.00 | 3.30 | 3.70 | 52.0 | 0.0 | 0.071 |
| 143.00 | 0.36 | 0.32 | 0.00 | 0.00 | 0.00 | 3.00 | 3.40 | 52.0 | 0.0 | 0.065 |
| 144.00 | 0.36 | 0.32 | 0.00 | 0.00 | 0.00 | 2.69 | 3.10 | 52.0 | 0.0 | 0.060 |
| 145.00 | 0.36 | 0.31 | 0.00 | 0.00 | 0.00 | 2.38 | 2.79 | 52.0 | 0.0 | 0.054 |
| 146.00 | 0.36 | 0.31 | 0.00 | 0.00 | 0.00 | 2.06 | 2.47 | 52.0 | 0.0 | 0.048 |
| 146.00 | 0.16 | 0.14 | 0.00 | 0.00 | 0.00 | 1.11 | 1.29 | 33.6 | 0.0 | 0.039 |
| 147.00 | 0.15 | 0.14 | 0.00 | 0.00 | 0.00 | 0.92 | 1.10 | 33.6 | 0.0 | 0.033 |
| 148.00 | 0.15 | 0.13 | 0.00 | 0.00 | 0.00 | 0.72 | 0.90 | 33.6 | 0.0 | 0.027 |
| 149.00 | 0.15 | 0.13 | 0.00 | 0.00 | 0.00 | 0.53 | 0.72 | 33.6 | 0.0 | 0.021 |
| 150.00 | 0.04 | 0.03 | 0.00 | 0.00 | 0.00 | 0.33 | 0.37 | 33.6 | 0.0 | 0.011 |
| 151.00 | 0.03 | 0.03 | 0.00 | 0.00 | 0.00 | 0.30 | 0.33 | 33.6 | 0.0 | 0.010 |
| 152.00 | 0.03 | 0.02 | 0.00 | 0.00 | 0.00 | 0.26 | 0.29 | 33.6 | 0.0 | 0.009 |
| 153.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.23 | 0.26 | 33.6 | 0.0 | 0.008 |
| 154.00 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.20 | 0.22 | 33.6 | 0.0 | 0.007 |
| 155.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.17 | 0.18 | 33.6 | 0.0 | 0.005 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

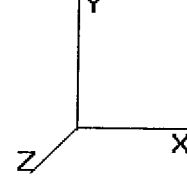
Code: TIA/EIA-222 Rev F

Copyright Semaan Engineering Solutions, Inc

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Page: 69

Base Elev : 0.000 (ft)



Analysis Summary

| Load Case | Reactions | | | | | | Max Stresses | | | |
|------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|---------------------------|-----------------------------|------------------------------|--------------|-----------------|
| | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Combined Stress (ksi) | Allowable Stress (ksi) | Elev (ft) | Stress Ratio |
| No Ice | 33.8 | 0.00 | 41.76 | 0.00 | 0.00 | 3508.06 | 51.75 | 52.0 | 45.73 | 0.995 |
| Ice | 29.7 | 0.00 | 50.73 | 0.00 | 0.00 | 3211.91 | 48.39 | 52.0 | 45.73 | 0.931 |
| Twist/Sway | 11.7 | 0.00 | 41.77 | 0.00 | 0.00 | 1216.18 | 18.35 | 52.0 | 45.73 | 0.353 |



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso

Chairman

April 5, 2010

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **EM-VER-142-100225**- Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 5 Ruops Road, Tolland, Connecticut.

Dear Attorney Baldwin:

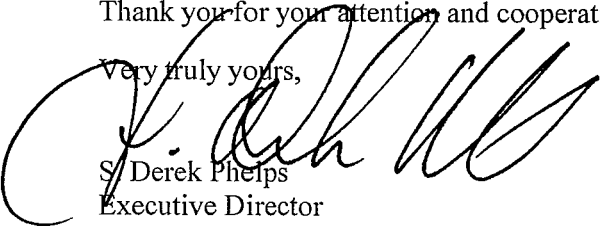
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 25, 2010, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,



S/ Derek Phelps
Executive Director

SDP/MP/laf

c: The Honorable Frederick M. Daniels, Chairman Town Council, Town of Tolland
Steven R. Werbner, Town Manager, Town of Tolland
Linda Farmer, Town Planner, Town of Tolland
American Tower Corporation

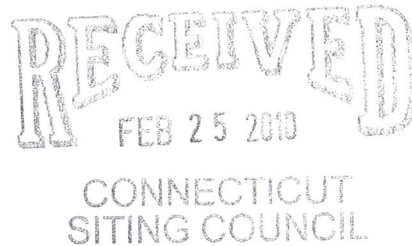
Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

ORIGINAL

February 25, 2010

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



Re: **Notice of Exempt Modification – Antenna Swap
5 Ruops Road, Tolland, Connecticut**

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains fifteen (15) wireless telecommunications antennas at the 142-foot level on the existing 155-foot tower at the above-referenced address. The tower is owned by American Tower Corporation. The Council approved Cellco’s use of the existing facility in 1989 (Docket No. 100). Cellco now intends to modify its installation by replacing three (3) cellular antennas with three (3) model P65-15-XL-2 LTE antennas, all at the same 142-foot level on the tower. Attached behind Tab 1 are the specifications for the proposed replacement antennas.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Steven R. Werbner, Town Manager for the Town of Tolland. The Town of Tolland is the owner of the property on which the tower is located.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in any increase in the height of the existing tower. Cellco’s antennas will all be located at the 142-foot level on the existing tower.

2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.



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S. Derek Phelps
February 25, 2010
Page 2

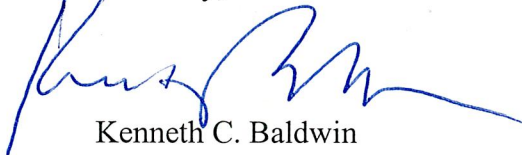
3. The proposed modifications will not increase noise levels at the facility by six decibels or more.

4. The operation of the replacement antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. A cumulative power density table for Cellco's modified facility is included behind Tab 2.

Also attached is a Structural Analysis Report confirming that the tower and foundation can support Cellco's proposed antennas. (See Tab 3).

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Steven R. Werbner, Tolland Town Manager
Sandy M. Carter



P65-15-XL-2

Very Low Broadband Antennas

POLARIZATION: Dual linear $\pm 45^\circ$
 FREQUENCY (MHz): 698-894
 HORIZONTAL BEAM WIDTH ($^\circ$): 65
 GAIN (dBi/dBd): 14.5/12.4
 TILT: 2
 LENGTH: 48"

ELECTRICAL SPECIFICATIONS*

| | 698-806 | 698-894 | 806-894 |
|--|-----------|--------------------|-----------|
| Frequency range (MHz) | | | |
| Frequency band (MHz) | 698-806 | | 806-894 |
| Gain (dBi/dBd) | 14.0/11.9 | | 14.5/12.4 |
| Polarization | | Dual Linear +/- 45 | |
| Nominal Impedance (Ω) | | 50 | |
| VSWR | | < 1.33:1 | |
| Horizontal beam width, -3 dB ($^\circ$) | 68 | | 65 |
| Vertical beam width, -3 dB ($^\circ$) | 16.5 | | 15.5 |
| Electrical down tilt ($^\circ$) | | 2 | |
| Side lobe suppression, vertical 1st upper (dB) | > 15 | | > 15 |
| Tracking, horizontal plane $\pm 60^\circ$ (dB) | < 2 | | < 2 |
| Isolation between inputs (dB) | > 30 | | > 30 |
| First null fill (dB) | - | | - |
| Vertical beam squint ($^\circ$) | < 0.5 | | < 0.5 |
| Front to back ratio (dB) | > 30 | | > 30 |
| Front to back ratio, total power (dB) | > 25 | | > 25 |
| Cross polar discrimination (XPD) 0° (dB) | > 15 | | > 15 |
| Cross polar discrimination (XPD) $\pm 60^\circ$ (dB) | > 10 | | > 10 |
| IM3, 2xTx@43dBm (dBc) | | -153 | |
| Power handling, average per input (W) | | 400 | |
| Power handling, average total (W) | | 800 | |

MECHANICAL SPECIFICATIONS*

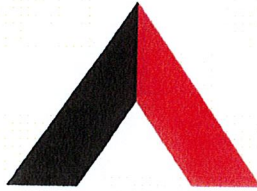
| | |
|--|------------------------------------|
| Connector | 2 X 7/16 DIN Female |
| Connector position | Bottom |
| Dimensions, HxWxD, in (mm) | 48"x12"x5" (1219x305x125) |
| Mounting | Pre-mounted Tilt Brackets |
| Weight, with brackets, lbs (kg) | 33 (15) |
| Weight, without brackets, lbs (kg) | 22 (10) |
| Wind load, frontal/lateral/rear side 42 m/s Cd=1.0 (N) | 920 |
| Maximum operational wind speed, mph (m/s) | 100 (45) |
| Survival wind speed, mph (m/s) | 125 (55) |
| Lightning protection | DC Ground |
| Radome material | PVC |
| Packet size, HxWxD, in (mm) | 58" x 16" x 10" (1475 x 400 x 255) |
| Radome colour | Light Grey |
| Shipping weight, lbs (kg) | 44 (20) |
| RET | N/A |
| Brackets | 7256.00, 7454.00, 2210.00 |

*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpa/>.

| Site Name: Tolland | | General | | Power | Density | | | | |
|--------------------------------|----------|------------|------------|---------------|------------------|---------------|--------------------|---------------|-------|
| Tower Height: Verizon @ 142Ft. | | # OF CHAN. | WATTS ERP | HEIGHT | CALC. POWER DENS | FREQ. | MAX. PERMISS. EXP. | FRACTION MPE | Total |
| *Cingular UMTS | 1 | 500 | 151 | 0.0079 | 880 | 0.5867 | 1.34% | | |
| *Cingular GSM | 3 | 296 | 151 | 0.0140 | 880 | 0.5867 | 2.39% | | |
| *Cingular GSM | 2 | 427 | 151 | 0.0135 | 1900 | 1.0000 | 1.35% | | |
| *Pocket | 3 | 631 | 105 | 0.0617 | 2130 | 1.0000 | 6.17% | | |
| *Sprint | 11 | 135 | 130 | 0.0316 | 1962.5 | 1.0000 | 3.16% | | |
| *VoiceStream | 2 | 530 | 160 | 0.0149 | 1930 | 1.0000 | 1.49% | | |
| *Nextel | 9 | 100 | 120 | 0.0225 | 851 | 0.5673 | 3.96% | | |
| Verizon | 7 | 316 | 142 | 0.0394 | 1970 | 1.0000 | 3.94% | | |
| Verizon | 9 | 185 | 142 | 0.0297 | 869 | 0.5793 | 5.12% | | |
| Verizon | 1 | 508 | 142 | 0.0091 | 757 | 0.4973 | 1.82% | 30.75% | |
| * Source: Siting Council | | | | | | | | | |



PASSED

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 155 ft EEI Monopole
ATC Site Name : Tolland CT, CT
ATC Site Number : 302495
Proposed Carrier : Verizon Wireless
Carrier Site Name : Tolland
Carrier Site Number : N/A
County : Tolland
Eng. Number : 44395822
Date : February 1, 2010
Usage : 85% (Pole Shaft), 70% (Anchor Bolts)

Submitted by:
Billy Davis, P.E.
Project Engineer

American Tower Engineering Services
8505 Freeport Parkway
Suite 135
Irving, TX 75063
Phone: 972-999-8900



Introduction

The purpose of this report is to summarize results of the structural analysis performed on the 155 ft Engineered Endeavors Inc Monopole located at Tolland CT, Tolland County, CT (ATC site # 302495). The tower was originally designed and manufactured by Engineered Endeavors Inc (Drawing # GS50842 dated June 24, 1998). The original base plate was reinforced as per SpectraSite dwg # M1 dated November 15, 2004. These modifications were considered in the current analysis.

Analysis

The existing tower was analyzed using Semaan Engineering Solutions, Inc., Software. The analysis assumes that the tower is in good, undamaged, and non-corroded condition. A 5% overstress is allowed in the existing structural members to account for program variances.

Basic Wind Speed: 100.0 mph (3-Second Gust)
 Radial Ice: 50.0 mph (3-Second Gust) w/ 1 1/4" ice
 Standard/Code: ANSI/TIA-222-G / 2003 IBC / 2005 & 2008 CT Supplement

Antenna Loads

The following antenna loads were used in the tower analysis.

Existing Antennas

| Elev. (ft) | Qty | Antennas | Mount | Coax (I/O) | Carrier |
|------------|-----|------------------------|-----------------------------------|---------------|---------------|
| 163.3 | 3 | EMS RR90-17-00DPL2 | Antennas are in Concealment Mount | (6) 1 5/8 (I) | T-Mobile |
| | 6 | TTA | | | |
| 150.0 | 1 | 7' Omni | Platform w/ Handrails | (1) 1 1/4(I) | USA Mobility |
| | 6 | Diplexer / Coupler | | (12) 1 1/4(I) | AT&T Mobility |
| | 3 | Powerwave 7770.00 | | | |
| | 6 | CSS DUO4-8670 | | | |
| | 6 | ADC DD800 | | | |
| 130.0 | 5 | Decibel DB980H65T2E-ML | Platform w/ Handrails | (9) 1 5/8 (I) | Sprint Nextel |
| | 4 | Decibel DB980H90A-KL | | | |
| 115.0 | 3 | 72" x 12" Panel | Platform w/ Handrails | (12) 1 5/8(I) | |
| | 9 | 48" x 12" Panel | | | |
| 105.0 | 3 | RFS APXV18-206517LS-C | Flush Mount | (6) 1 5/8 (O) | Youghiogheny |
| 81.0 | 1 | GPS | Stand Off Mount | (1) 1/2 (O) | T-Mobile |
| 61.0 | 2 | GPS | Stand Off Mounts | (2) 1/2 (O) | Sprint Nextel |
| 55.0 | 1 | GPS | Stand Off Mount | (1) 1/2 (O) | |
| 15.0 | 1 | Dish Standard | Dish Mount | (1) RG6 (O) | USA Mobility |

Antenna Loads continued

Proposed Antennas

| Elev. (ft) | Qty | Antennas | Mount | Coax (I/O) | Carrier |
|------------|-----|-----------------------|-----------------------|----------------|------------------|
| 142.0 | 6 | Andrew DB948F85E-M | Platform w/ Handrails | (15) 1 5/8 (I) | Verizon Wireless |
| | 3 | Powerwave P65-15-XL-2 | | | |
| | 6 | Swedcom ALP 9212-N | | | |

Note: (O) – Coax installed outside the pole shafts. (I) – Coax installed inside the pole shafts.

The existing and the proposed transmission lines were considered running inside or outside the pole shafts as indicated above. If the proposed lines are installed outside the pole, these lines shall be strapped tightly to the face of the pole shafts. Stacking lines are not allowed.

Results

The existing 155 ft EEI Monopole with the existing and the proposed antennas is structurally acceptable per ANSI/TIA-222-G and IBC 2003 standards. The maximum structural usages are: 85% (pole shaft) and 70% (anchor bolts.).

Additional exit and/or entry ports may be required to accommodate the running of the proposed lines to the proposed antennas. These additional ports may not be installed without installation drawings providing the location, size and welding requirements of each port.

To ensure compliance with all conditions of this structural analysis, port installation drawings shall be provided by American Tower’s Engineering Department under a subsequent project.

| Pole Reactions | Original Design Reactions | Current Analysis Reactions | % Of Design |
|------------------|---------------------------|----------------------------|-------------|
| Moment (ft-kips) | 3,309.00 | 3,366.76 | 75.4* |
| Shear (kips) | 32.20 | 32.07 | 73.8* |

* A 1.35 factor was included in the calculations of the percentages per EIA-222-G section 15.5.1

The structure base reactions resulting from the current analysis do not exceed the ones shown on the original structural drawings or calculations. Therefore, assuming the original foundation was designed correctly, the existing foundation should be adequate to support the new reactions. Therefore, no modification to the existing foundation will be required.

Conclusion

The existing monopole and its foundation were found to be adequate to support the existing and proposed antennas with the transmission line distribution as described above while meeting the requirements of the code or standard as specified in this report.

If you have any questions or require additional information, please call (972) 999-8900.

Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

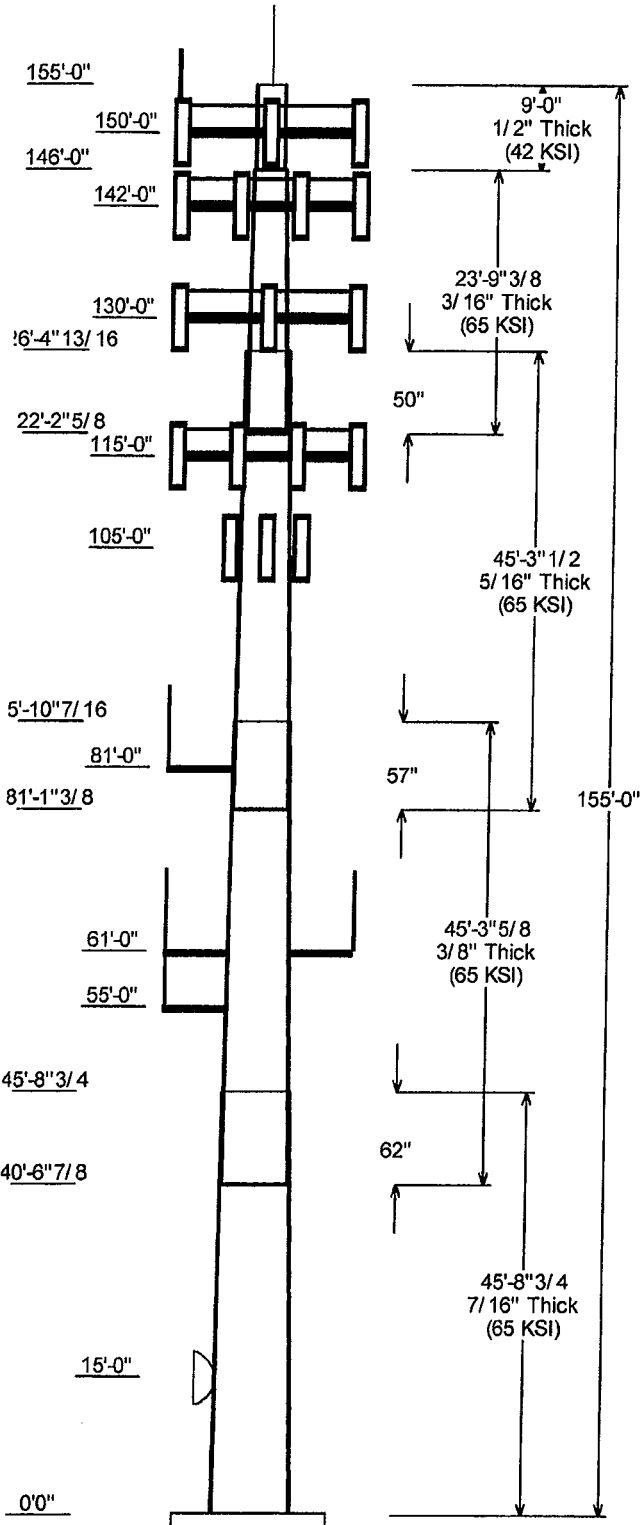
- Information supplied by the client regarding the structure itself, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Engineering Services and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and are in an un-corroded condition and have not deteriorated; and we, therefore, assume that their capacity has not significantly changed from the "as new" condition.

All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/EIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Engineering Services is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

| Job Information | | | |
|-----------------|---------------------------------|-----------------|--------------------|
| Pole : | 302495 | Code: | ANSI/TIA-222 Rev G |
| Description : | EEL 155' Monopole With Canister | Struct Class : | II |
| Client : | Verizon Wireless | Exposure : | B |
| Location : | Tolland CT, CT | Topo : | 1 |
| Shape : | 12 Sides | Base Elev (ft): | 0.00 |
| Height : | 155.00 (ft) | Taper: | 0.210616(in/ft) |



| Sections Properties | | | | | | | |
|---------------------|-------------|---------------|--------------|-----------------------|-------------|---------------|-------------------|
| Shaft Section | Length (ft) | Diameter (in) | | Thick Joint (in) Type | Overlap | | Steel Grade (ksi) |
| | | Access Top | Flats Bottom | | Length (in) | Taper (in/ft) | |
| 1 | 45.730 | 40.369 | 50.000 | 0.438 | 0.000 | 0.210616 | 65 |
| 2 | 45.300 | 32.664 | 42.205 | 0.375 Slip Joint | 61.910 | 0.210616 | 65 |
| 3 | 45.290 | 24.752 | 34.291 | 0.313 Slip Joint | 57.090 | 0.210616 | 65 |
| 4 | 23.780 | 21.000 | 26.008 | 0.188 Slip Joint | 50.196 | 0.210616 | 65 |
| 5 | 9.000 | 18.000 | 18.000 | 0.500 Butt Joint | 0.000 | 0.000000 | 42 |

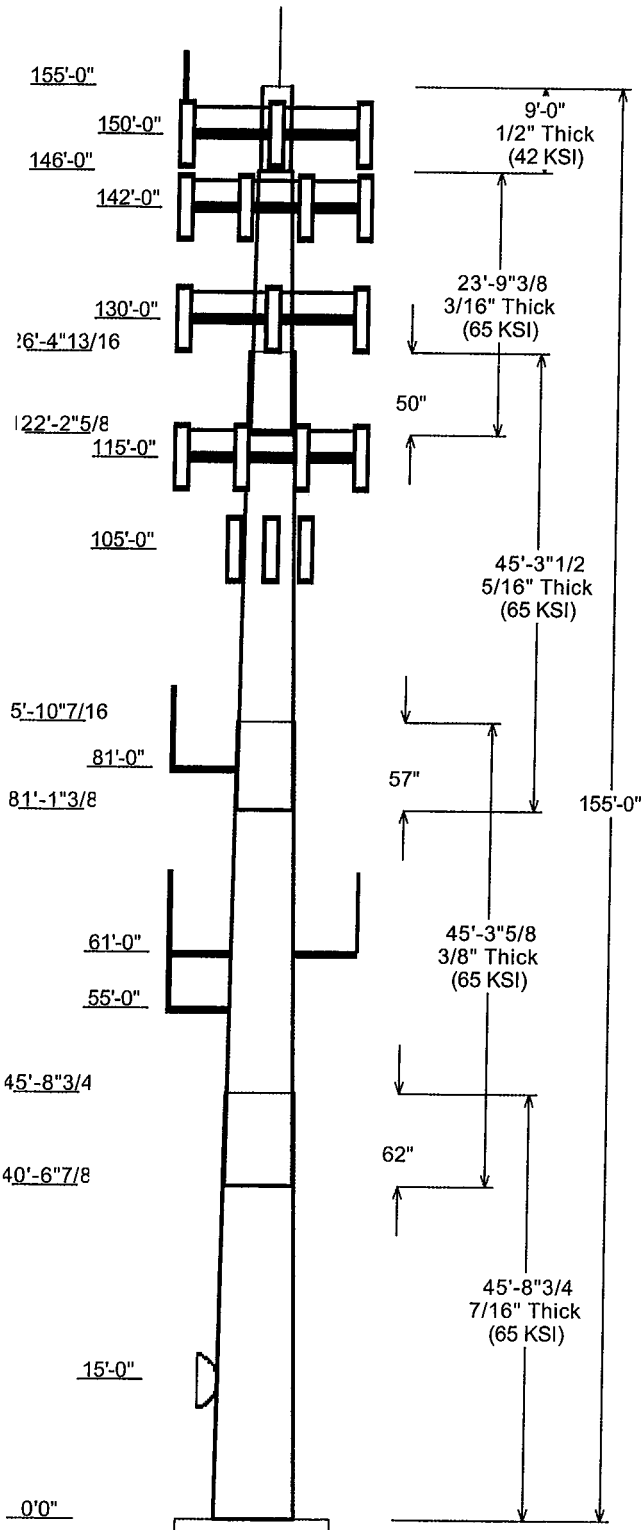
| Discrete Appurtenance | | | |
|-----------------------|-----------------|-----|------------------------|
| Attach Elev (ft) | Force Elev (ft) | Qty | Description |
| 155.000 | 163.300 | 1 | Canister |
| 150.000 | 153.500 | 1 | 7' Omni |
| 150.000 | 150.000 | 6 | Diplexer / Coupler |
| 150.000 | 150.000 | 3 | Powerwave 7770.00 |
| 150.000 | 150.000 | 1 | Platform w/ Handrails |
| 150.000 | 150.000 | 6 | CSS DUO4-8670 |
| 150.000 | 150.000 | 6 | ADC DD800 |
| 142.000 | 142.000 | 6 | Andrew DB948F85E-M |
| 142.000 | 142.000 | 3 | Powerwave P65-15-XL-2 |
| 142.000 | 142.000 | 6 | Swedcom ALP 9212-N |
| 142.000 | 142.000 | 1 | Platform w/ Handrails |
| 130.000 | 130.000 | 5 | Decibel DB980H65T2E-ML |
| 130.000 | 130.000 | 4 | Decibel DB980H90A-KL |
| 130.000 | 130.000 | 1 | Platform w/ Handrails |
| 115.000 | 115.000 | 3 | 72" x 12" Panel |
| 115.000 | 115.000 | 9 | 48" x 12" Panel |
| 115.000 | 115.000 | 1 | Platform w/ Handrails |
| 105.000 | 105.000 | 3 | RFS APXV18-206517LS-C |
| 105.000 | 105.000 | 1 | Flush Mounts |
| 81.000 | 81.500 | 1 | GPS |
| 81.000 | 81.000 | 1 | Stand Off |
| 61.000 | 61.500 | 2 | GPS |
| 61.000 | 61.000 | 2 | Stand Off |
| 55.000 | 55.167 | 1 | 2" x 4" GPS |
| 55.000 | 55.000 | 1 | Stand Off |
| 15.000 | 15.000 | 1 | Dish Standard |

| Linear Appurtenance | | | |
|---------------------|--------|-------------|-----------------|
| Elev (ft) | | Description | Exposed To Wind |
| From | To | | |
| 0.000 | 15.000 | RG6 Coax | Yes |
| 0.000 | 55.000 | 1/2" Coax | Yes |
| 0.000 | 61.000 | 1/2" Coax | Yes |
| 0.000 | 61.000 | 1/2" Coax | Yes |
| 0.000 | 81.000 | 1/2" Coax | Yes |
| 0.000 | 105.00 | 1 5/8" Coax | Yes |
| 0.000 | 115.00 | 1 5/8" Coax | No |
| 0.000 | 130.00 | 1 5/8" Coax | No |
| 0.000 | 142.00 | 1 5/8" Coax | No |
| 0.000 | 150.00 | 1 1/4" Coax | No |
| 0.000 | 150.00 | 1 1/4" Coax | No |
| 0.000 | 155.00 | 1 5/8" Coax | No |

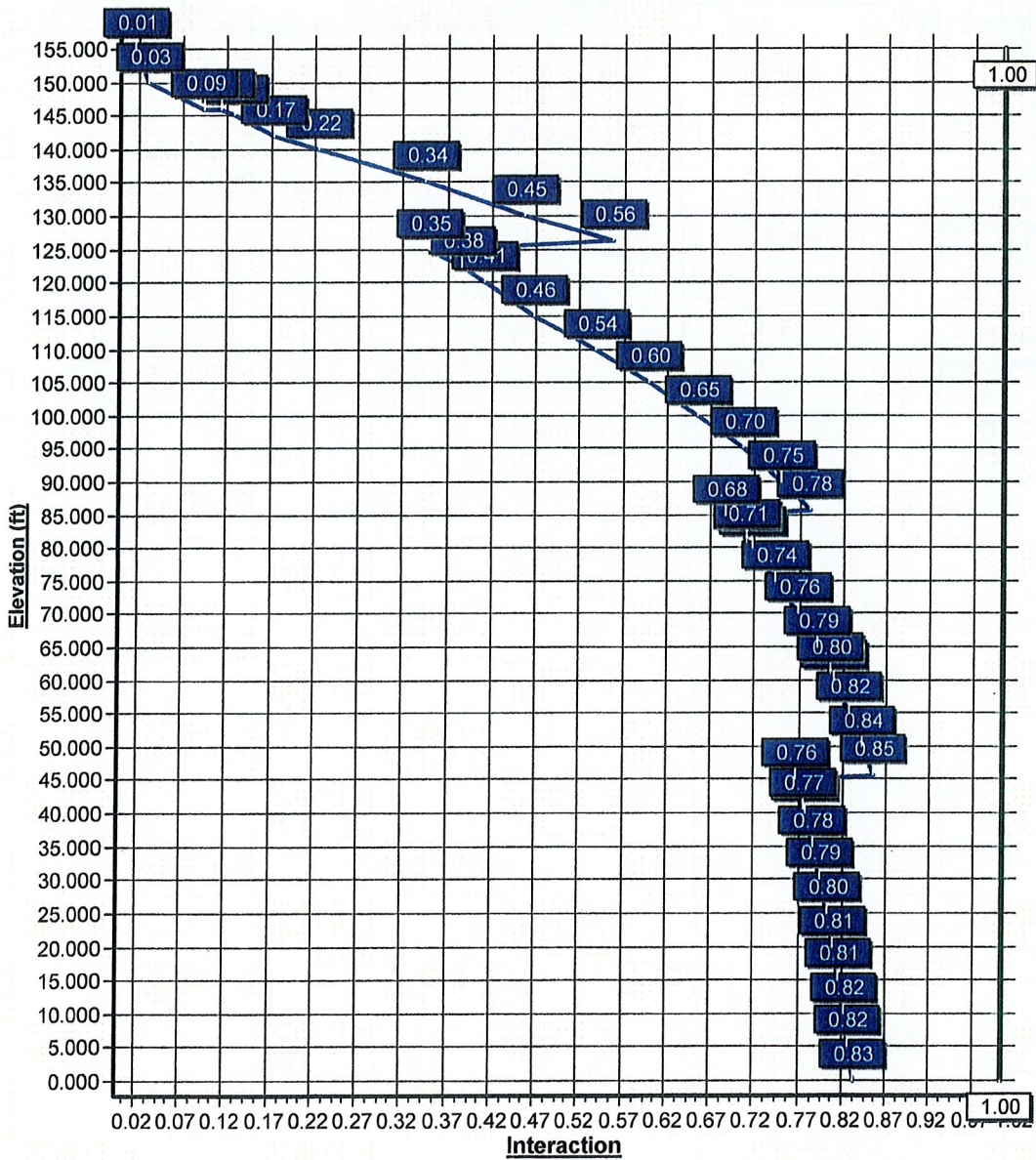
| Load Cases | |
|----------------------|-------------------------------------|
| 1.2D + 1.6W | 100.00 mph with No Ice |
| 0.9D + 1.6W | 100.00 mph with No Ice (Reduced DL) |
| 1.2D + 1.0Di + 1.0Wi | 50.00 mph with 1.25 in Radial Ice |
| 1.0D + 1.0W | 60.00 mph Serviceability |

| Reactions | | | |
|----------------------|-----------------|--------------|--------------|
| Load Case | Moment (Kip-ft) | Shear (Kips) | Axial (Kips) |
| 1.2D + 1.6W | 3366.76 | 32.07 | 50.28 |
| 0.9D + 1.6W | 3315.57 | 32.04 | 37.69 |
| 1.2D + 1.0Di + 1.0Wi | 1090.00 | 8.69 | 103.98 |
| 1.0D + 1.0W | 751.03 | 7.21 | 41.95 |

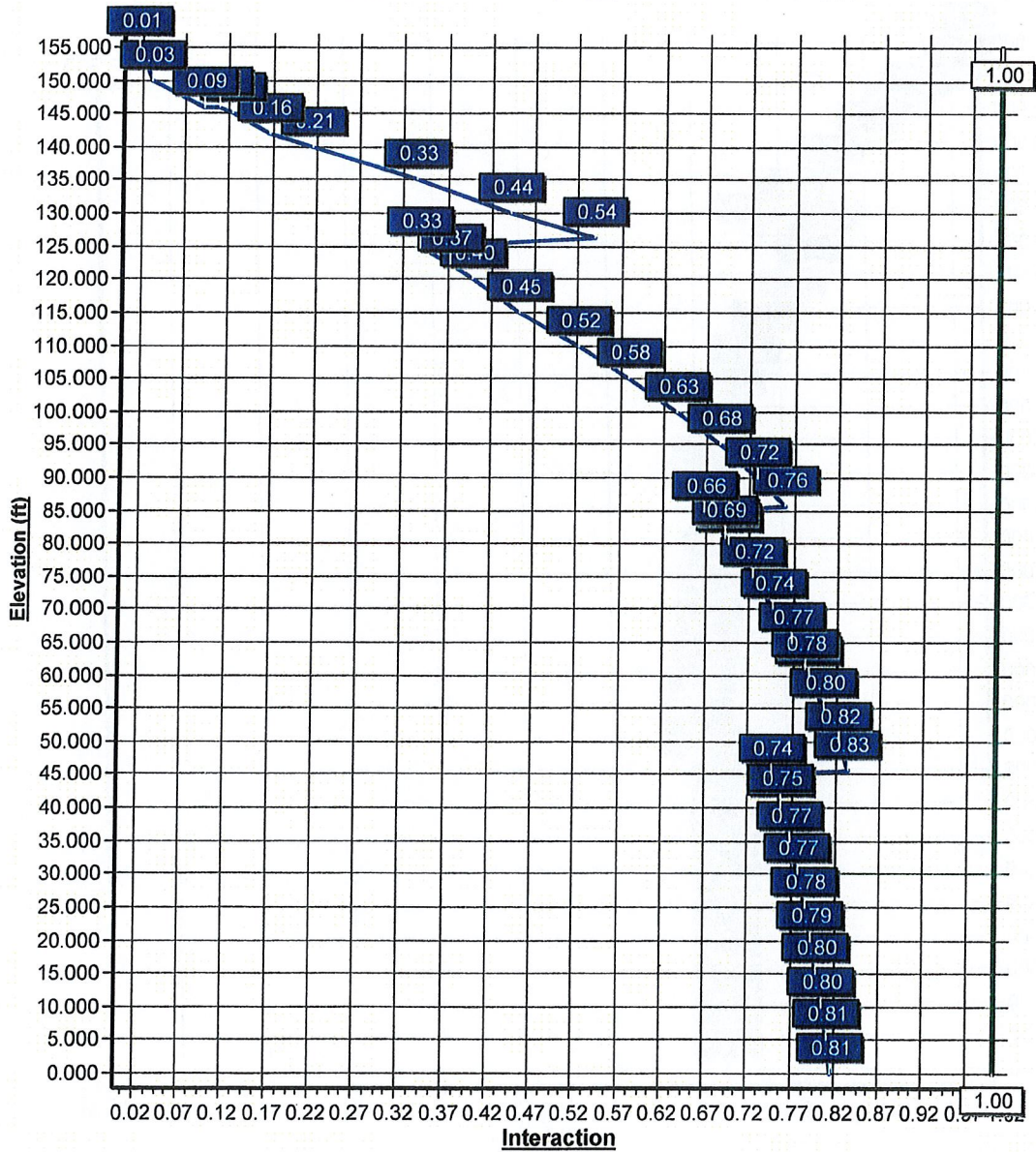
| Dish Deflections | | | |
|------------------|------------------|-----------------|----------------|
| Load Case | Attach Elev (ft) | Deflection (in) | Rotation (deg) |
| 1.0D + 1.0W | 15.00 | 0.228 | 0.145 |



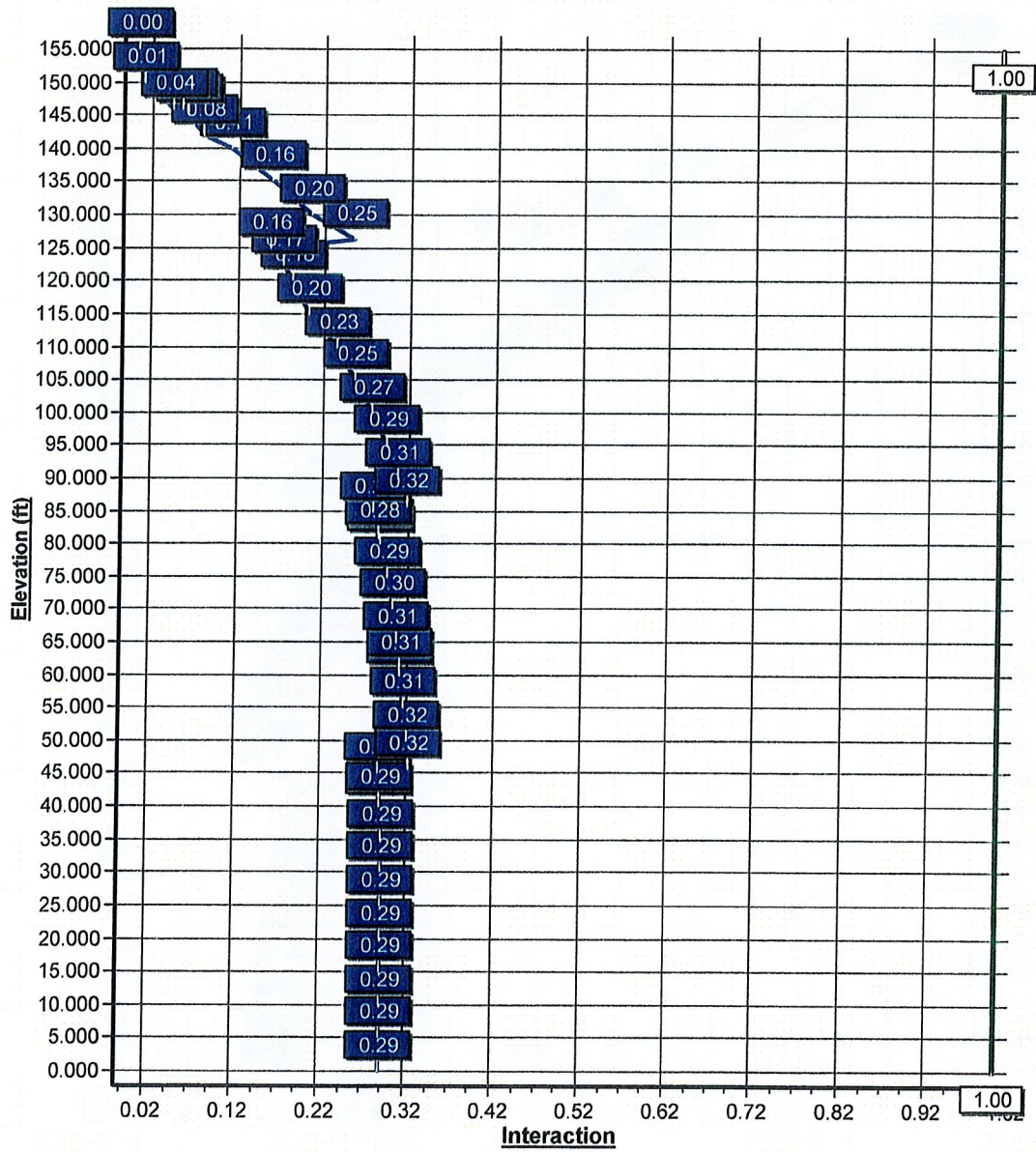
Load Case : 1.2D + 1.6W
Max Ratio 85.19% at 45.7ft



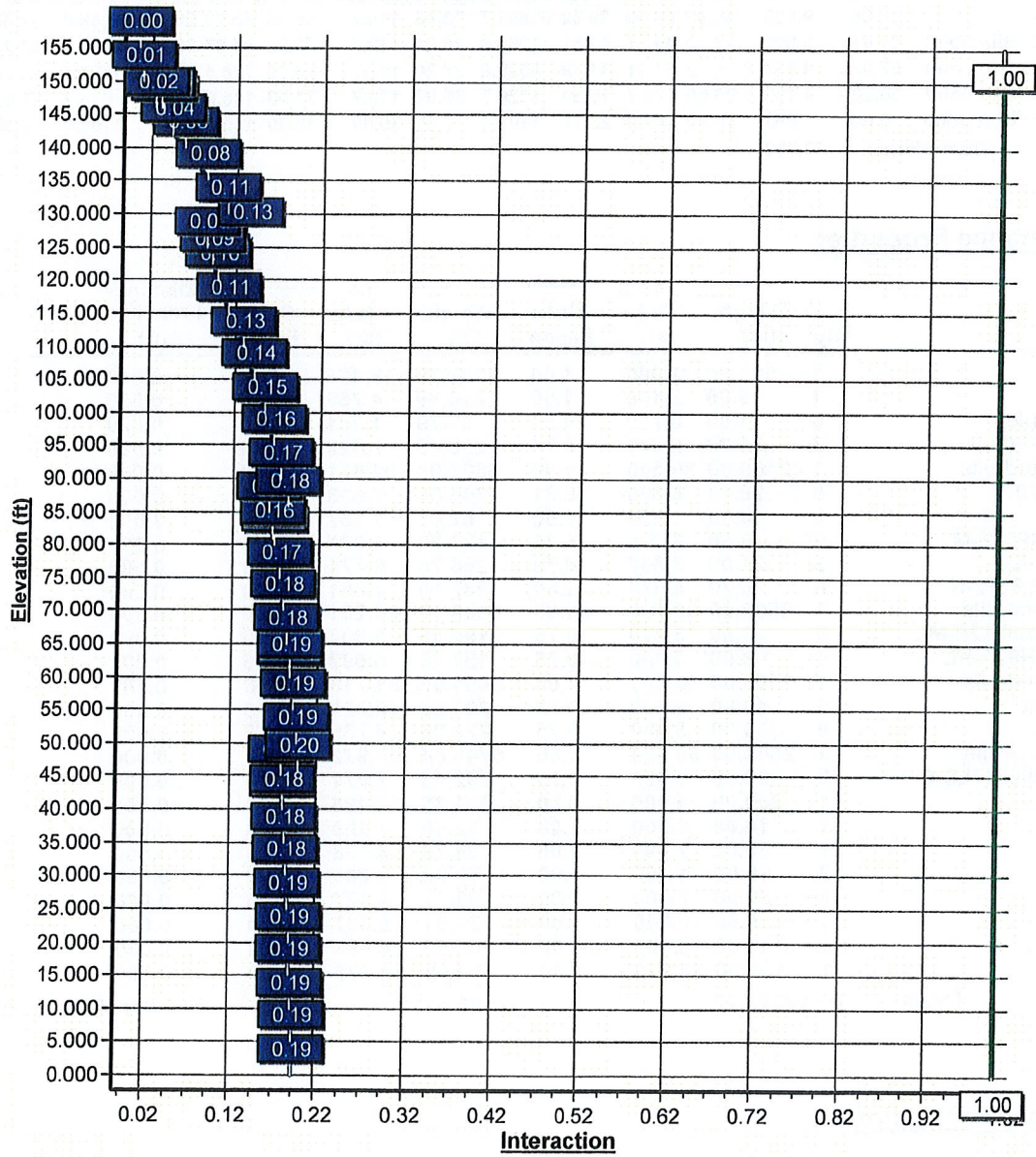
Load Case : 0.9D + 1.6W
Max Ratio 83.11% at 45.7ft



Load Case : 1.2D + 1.0Di + 1.0Wi
Max Ratio 31.99% at 45.7ft



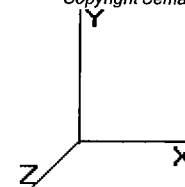
Load Case : 1.0D + 1.0W
Max Ratio 19.68% at 45.7ft



Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)

Shaft Section Properties

| Sect Num | Length (ft) | Thick (in) | Fv (ksi) | Joint Type | Slip Joint Len (in) | Weight (lb) | Bottom | | | | Top | | | | Taper (in/ft) | | | | |
|--------------|-------------|------------|----------|------------|---------------------|-------------|----------|-----------|-------------|-----------|-----------|-----------|----------|-----------|---------------|-------------|-----------|-----------|-----------|
| | | | | | | | Dia (in) | Elev (ft) | Area (sqin) | Ix (in^4) | W/t Ratio | D/t Ratio | Dia (in) | Elev (ft) | | Area (sqin) | Ix (in^4) | W/t Ratio | D/t Ratio |
| 1 | 45.730 | 0.4375 | 65 | | 0.00 | 9,809 | 50.00 | 0.000 | 69.82 | 21891.7 | 28.48 | 114.2 | 40.36 | 45.73 | 56.25 | 11448.6 | 22.58 | 92.27 | 0.21062 |
| 2 | 45.300 | 0.3750 | 65 | Slip Joint | 61.91 | 6,898 | 42.20 | 40.57 | 50.51 | 11280.8 | 28.01 | 112.5 | 32.66 | 85.87 | 38.99 | 5188.6 | 21.20 | 87.10 | 0.21062 |
| 3 | 45.290 | 0.3125 | 65 | Slip Joint | 57.09 | 4,530 | 34.29 | 81.11 | 34.19 | 5038.6 | 27.26 | 109.7 | 24.75 | 126.4 | 24.59 | 1875.0 | 19.08 | 79.21 | 0.21062 |
| 4 | 23.780 | 0.1875 | 65 | Slip Joint | 50.20 | 1,139 | 26.00 | 122.2 | 15.59 | 1326.7 | 35.02 | 138.7 | 21.00 | 146.0 | 12.57 | 694.7 | 27.87 | 112.00 | 0.21062 |
| 5 | 9.000 | 0.5000 | 42 | Butt Joint | 0.00 | 863 | 18.00 | 146.0 | 28.17 | 1101.4 | 7.50 | 36.00 | 18.00 | 155.0 | 28.17 | 1101.4 | 7.50 | 36.00 | 0.00000 |
| Shaft Weight | | | | | | 23,239 | | | | | | | | | | | | | |

Discrete Appurtenance Properties

| Attach Elev (ft) | Description | Qty | Weight (lb) | No Ice CaAa (sf) | CaAa Factor | Weight (lb) | Ice CaAa (sf) | CaAa Factor | Distance From Face (ft) | Vert Ecc (ft) |
|------------------|------------------------|-----|-------------|------------------|-------------|-------------|---------------|-------------|-------------------------|---------------|
| 155.0 | Canister | 1 | 500.00 | 12.000 | 1.00 | 1237.39 | 18.495 | 1.00 | 0.000 | 8.300 |
| 150.0 | 7' Omni | 1 | 15.00 | 2.100 | 1.00 | 216.80 | 4.789 | 1.00 | 0.000 | 3.500 |
| 150.0 | Diplexer / Coupler | 6 | 4.00 | 0.710 | 0.50 | 51.79 | 1.261 | 0.50 | 0.000 | 0.000 |
| 150.0 | Powerwave 7770.00 | 3 | 35.00 | 5.941 | 0.74 | 296.48 | 7.423 | 0.74 | 0.000 | 0.000 |
| 150.0 | Platform w/ Handrails | 1 | 2500.00 | 30.500 | 1.00 | 6863.04 | 92.601 | 1.00 | 0.000 | 0.000 |
| 150.0 | CSS DUO4-8670 | 6 | 28.00 | 6.590 | 0.81 | 346.09 | 7.633 | 0.81 | 0.000 | 0.000 |
| 150.0 | ADC DD800 | 6 | 14.00 | 1.240 | 0.50 | 87.07 | 1.867 | 0.50 | 3.000 | 0.000 |
| 142.0 | Andrew DB948F85E-M | 6 | 8.50 | 3.270 | 0.75 | 177.33 | 4.779 | 0.75 | 0.000 | 0.000 |
| 142.0 | EMS FV65-15-XL-2 | 3 | 21.00 | 5.600 | 0.79 | 286.70 | 6.774 | 0.79 | 0.000 | 0.000 |
| 142.0 | Swedcom ALP 9212-N | 6 | 26.70 | 4.520 | 1.00 | 287.58 | 14.651 | 1.00 | 0.000 | 0.000 |
| 142.0 | Platform w/ Handrails | 1 | 2500.00 | 30.500 | 1.00 | 6839.19 | 92.261 | 1.00 | 0.000 | 0.000 |
| 130.0 | Decibel DB980H65T2E-ML | 5 | 8.50 | 3.800 | 0.75 | 190.46 | 5.592 | 0.75 | 0.000 | 0.000 |
| 130.0 | Decibel DB980H90A-KL | 4 | 8.50 | 3.800 | 0.75 | 190.46 | 5.592 | 0.75 | 0.000 | 0.000 |
| 130.0 | Platform w/ Handrails | 1 | 2500.00 | 30.500 | 1.00 | 6801.05 | 91.718 | 1.00 | 0.000 | 0.000 |
| 115.0 | 72" x 12" Panel | 3 | 40.00 | 8.400 | 0.75 | 390.63 | 10.323 | 0.75 | 0.000 | 0.000 |
| 115.0 | 48" x 12" Panel | 9 | 30.00 | 5.600 | 0.75 | 276.36 | 6.735 | 0.75 | 0.000 | 0.000 |
| 115.0 | Platform w/ Handrails | 1 | 2500.00 | 30.500 | 1.00 | 6748.64 | 90.972 | 1.00 | 0.000 | 0.000 |
| 105.0 | RFS APXV18-206517LS-C | 3 | 22.00 | 5.020 | 0.75 | 242.63 | 7.071 | 0.75 | 0.000 | 0.000 |
| 105.0 | Flush Mounts | 1 | 200.00 | 5.000 | 1.00 | 761.35 | 13.420 | 1.00 | 0.000 | 0.000 |
| 81.00 | GPS | 1 | 10.00 | 1.000 | 1.00 | 82.96 | 1.229 | 1.00 | 0.000 | 0.500 |
| 81.00 | Stand Off | 1 | 50.00 | 2.000 | 1.00 | 104.70 | 4.188 | 1.00 | 0.000 | 0.000 |
| 61.00 | GPS | 2 | 10.00 | 1.000 | 1.00 | 79.92 | 1.205 | 1.00 | 0.000 | 0.500 |
| 61.00 | Stand Off | 2 | 50.00 | 2.000 | 1.00 | 103.17 | 4.127 | 1.00 | 0.000 | 0.000 |
| 55.00 | 2" x 4" GPS | 1 | 5.00 | 0.040 | 1.00 | 20.31 | 0.327 | 1.00 | 0.000 | 0.167 |
| 55.00 | Stand Off | 1 | 50.00 | 2.000 | 1.00 | 102.62 | 4.105 | 1.00 | 0.000 | 0.000 |
| 15.00 | Dish Standard | 1 | 188.00 | 20.910 | 1.00 | 604.99 | 24.775 | 1.00 | 0.000 | 0.000 |
| Totals | | 76 | 12325.70 | | | 17596.51 | | | Number of Loadings : | 26 |

Linear Appurtenance Properties

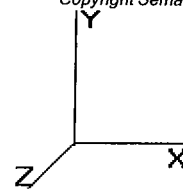
| Elev From (ft) | Elev To (ft) | Description | Exposed Width (in) | Exposed To Wind |
|----------------|--------------|------------------|--------------------|-----------------|
| 0.00 | 155.00 | (6) 1 5/8" Coax | 0.00 | N |
| 0.00 | 150.00 | (12) 1 1/4" Coax | 0.00 | N |
| 0.00 | 150.00 | (1) 1 1/4" Coax | 0.00 | N |
| 0.00 | 142.00 | (15) 1 5/8" Coax | 0.00 | N |
| 0.00 | 130.00 | (9) 1 5/8" Coax | 0.00 | N |
| 0.00 | 115.00 | (12) 1 5/8" Coax | 0.00 | N |

Pole : 302495
Location : Tolland CT, CT
Height : 155.0 (ft)
Shape : 12 Sides
Base Dia : 50.00 (in)
Top Dia : 18.00 (in)
Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1

Base Elev : 0.000 (ft)

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Page: 2

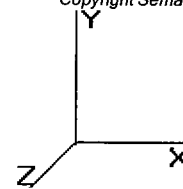


| | | | | |
|------|--------|-----------------|------|---|
| 0.00 | 105.00 | (6) 1 5/8" Coax | 2.00 | Y |
| 0.00 | 81.00 | (1) 1/2" Coax | 0.63 | Y |
| 0.00 | 61.00 | (1) 1/2" Coax | 0.63 | Y |
| 0.00 | 61.00 | (1) 1/2" Coax | 0.63 | Y |
| 0.00 | 55.00 | (1) 1/2" Coax | 0.00 | Y |
| 0.00 | 15.00 | (1) RG6 Coax | 0.00 | Y |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)

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Segment Properties (Max Len : 5 ft)

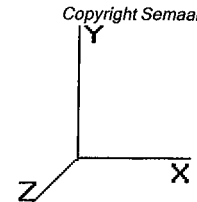
| Seq Top Elev (ft) | Description | Thick (in) | Flat Dia (in) | Area (in ²) | Ix (in ⁴) | W/t Ratio | D/t Ratio | F'y (ksi) | S (in ³) | Weight (lb) |
|-------------------|-----------------|------------|---------------|-------------------------|-----------------------|-----------|-----------|-----------|----------------------|-------------|
| 0.00 | | 0.4375 | 50.000 | 69.821 | 21,891.7 | 28.48 | 114.29 | 65.0 | 845.8 | 0.0 |
| 5.00 | | 0.4375 | 48.947 | 68.338 | 20,525.7 | 27.83 | 111.88 | 65.0 | 810.1 | 1,175.3 |
| 10.00 | | 0.4375 | 47.894 | 66.854 | 19,217.8 | 27.19 | 109.47 | 65.0 | 775.2 | 1,150.1 |
| 15.00 | | 0.4375 | 46.841 | 65.371 | 17,966.6 | 26.54 | 107.06 | 65.0 | 741.0 | 1,124.8 |
| 20.00 | | 0.4375 | 45.788 | 63.887 | 16,770.9 | 25.90 | 104.66 | 65.0 | 707.6 | 1,099.6 |
| 25.00 | | 0.4375 | 44.735 | 62.404 | 15,629.5 | 25.25 | 102.25 | 65.0 | 675.0 | 1,074.3 |
| 30.00 | | 0.4375 | 43.682 | 60.920 | 14,541.1 | 24.61 | 99.84 | 65.0 | 643.1 | 1,049.1 |
| 35.00 | | 0.4375 | 42.628 | 59.436 | 13,504.5 | 23.96 | 97.44 | 65.0 | 612.0 | 1,023.9 |
| 40.00 | | 0.4375 | 41.575 | 57.953 | 12,518.3 | 23.32 | 95.03 | 65.0 | 581.7 | 998.6 |
| 40.57 | Bot - Section 2 | 0.4375 | 41.455 | 57.784 | 12,408.9 | 23.25 | 94.75 | 65.0 | 578.3 | 112.4 |
| 45.00 | | 0.4375 | 40.522 | 56.469 | 11,581.3 | 22.67 | 92.62 | 65.0 | 552.1 | 1,613.8 |
| 45.73 | Top - Section 1 | 0.3750 | 41.119 | 49.198 | 10,424.4 | 27.24 | 109.65 | 65.0 | 489.8 | 262.4 |
| 50.00 | | 0.3750 | 40.219 | 48.112 | 9,749.2 | 26.59 | 107.25 | 65.0 | 468.3 | 707.0 |
| 55.00 | | 0.3750 | 39.166 | 46.840 | 8,996.4 | 25.84 | 104.44 | 65.0 | 443.7 | 807.8 |
| 60.00 | | 0.3750 | 38.113 | 45.569 | 8,283.4 | 25.09 | 101.63 | 65.0 | 419.9 | 786.1 |
| 61.00 | | 0.3750 | 37.902 | 45.314 | 8,145.5 | 24.94 | 101.07 | 65.0 | 415.2 | 154.6 |
| 65.00 | | 0.3750 | 37.060 | 44.297 | 7,609.2 | 24.34 | 98.83 | 65.0 | 396.6 | 609.9 |
| 70.00 | | 0.3750 | 36.007 | 43.025 | 6,972.5 | 23.58 | 96.02 | 65.0 | 374.1 | 742.8 |
| 75.00 | | 0.3750 | 34.954 | 41.754 | 6,372.4 | 22.83 | 93.21 | 65.0 | 352.2 | 721.2 |
| 80.00 | | 0.3750 | 33.901 | 40.482 | 5,807.7 | 22.08 | 90.40 | 65.0 | 331.0 | 699.6 |
| 81.00 | | 0.3750 | 33.690 | 40.228 | 5,699.0 | 21.93 | 89.84 | 65.0 | 326.8 | 137.3 |
| 81.11 | Bot - Section 3 | 0.3750 | 33.666 | 40.199 | 5,686.7 | 21.91 | 89.78 | 65.0 | 326.3 | 15.5 |
| 85.00 | | 0.3750 | 32.848 | 39.211 | 5,277.5 | 21.33 | 87.59 | 65.0 | 310.4 | 971.9 |
| 85.87 | Top - Section 2 | 0.3125 | 33.289 | 33.183 | 4,605.9 | 26.40 | 106.53 | 65.0 | 267.3 | 214.4 |
| 90.00 | | 0.3125 | 32.420 | 32.308 | 4,251.0 | 25.65 | 103.74 | 65.0 | 253.3 | 460.1 |
| 95.00 | | 0.3125 | 31.366 | 31.248 | 3,846.3 | 24.75 | 100.37 | 65.0 | 236.9 | 540.7 |
| 100.0 | | 0.3125 | 30.313 | 30.188 | 3,468.1 | 23.85 | 97.00 | 65.0 | 221.0 | 522.6 |
| 105.0 | | 0.3125 | 29.260 | 29.129 | 3,115.6 | 22.95 | 93.63 | 65.0 | 205.7 | 504.6 |
| 110.0 | | 0.3125 | 28.207 | 28.069 | 2,787.8 | 22.04 | 90.26 | 65.0 | 190.9 | 486.6 |
| 115.0 | | 0.3125 | 27.154 | 27.009 | 2,483.8 | 21.14 | 86.89 | 65.0 | 176.7 | 468.5 |
| 120.0 | | 0.3125 | 26.101 | 25.950 | 2,202.8 | 20.24 | 83.52 | 65.0 | 163.0 | 450.5 |
| 122.2 | Bot - Section 4 | 0.3125 | 25.633 | 25.479 | 2,085.1 | 19.84 | 82.03 | 65.0 | 157.1 | 194.3 |
| 125.0 | | 0.3125 | 25.048 | 24.890 | 1,943.8 | 19.33 | 80.15 | 65.0 | 149.9 | 384.0 |
| 126.4 | Top - Section 3 | 0.1875 | 25.127 | 15.057 | 1,195.4 | 33.77 | 134.01 | 61.1 | 91.9 | 190.4 |
| 130.0 | | 0.1875 | 24.370 | 14.600 | 1,089.8 | 32.68 | 129.97 | 62.2 | 86.4 | 181.5 |
| 135.0 | | 0.1875 | 23.317 | 13.964 | 953.5 | 31.18 | 124.36 | 63.6 | 79.0 | 243.0 |
| 140.0 | | 0.1875 | 22.264 | 13.329 | 829.1 | 29.67 | 118.74 | 65.0 | 71.9 | 232.2 |
| 142.0 | | 0.1875 | 21.842 | 13.074 | 782.6 | 29.07 | 116.49 | 65.0 | 69.2 | 89.8 |
| 145.0 | | 0.1875 | 21.211 | 12.693 | 716.0 | 28.17 | 113.12 | 65.0 | 65.2 | 131.5 |
| 146.0 | Top - Section 4 | 0.1875 | 21.000 | 12.566 | 694.7 | 27.87 | 112.00 | 65.0 | 63.9 | 43.0 |
| 146.0 | Bot - Section 5 | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42.0 | 118.2 | |
| 150.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42.0 | 118.2 | 383.5 |
| 155.0 | | 0.5000 | 18.000 | 28.175 | 1,101.4 | 7.50 | 36.00 | 42.0 | 118.2 | 479.4 |
| | | | | | | | | | | 23,238.7 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 1.2D + 1.6W 100.00 mph with No Ice 26 Iterations
Gust Response Factor: 1.10 **Wind Importance Factor:** 1.00
Dead Load Factor: 1.20
Wind Load Factor: 1.60

Shaft Segment Forces (Factored)

| Seg Top Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-------------------|-----------------|------|------|----------|------------|------------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 360.90 | 1.000 | 0.00 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 353.30 | 1.000 | 0.00 | 5.00 | 21.341 | 21.34 | 639.4 | 0.0 | 1,410.4 |
| 10.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 345.70 | 1.000 | 0.00 | 5.00 | 20.887 | 20.89 | 625.8 | 0.0 | 1,380.1 |
| 15.00 | Appertunance(s) | 1.00 | 0.70 | 17.024 | 18.72 | 338.10 | 1.000 | 0.00 | 5.00 | 20.433 | 20.43 | 612.2 | 0.0 | 1,349.8 |
| 20.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 330.50 | 1.000 | 0.00 | 5.00 | 19.978 | 19.98 | 598.6 | 0.0 | 1,319.5 |
| 25.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 322.90 | 1.000 | 0.00 | 5.00 | 19.524 | 19.52 | 585.0 | 0.0 | 1,289.2 |
| 30.00 | | 1.00 | 0.70 | 17.038 | 18.74 | 315.43 | 1.000 | 0.00 | 5.00 | 19.070 | 19.07 | 571.9 | 0.0 | 1,258.9 |
| 35.00 | | 1.00 | 0.73 | 17.806 | 19.58 | 314.68 | 1.000 | 0.00 | 5.00 | 18.616 | 18.62 | 583.4 | 0.0 | 1,228.6 |
| 40.00 | | 1.00 | 0.76 | 18.498 | 20.34 | 312.81 | 1.000 | 0.00 | 5.00 | 18.161 | 18.16 | 591.3 | 0.0 | 1,198.4 |
| 40.57 | Bot - Section 2 | 1.00 | 0.76 | 18.573 | 20.43 | 312.54 | 1.000 | 0.00 | 0.57 | 2.044 | 2.04 | 66.8 | 0.0 | 134.9 |
| 45.00 | | 1.00 | 0.78 | 19.131 | 21.04 | 310.06 | 1.000 | 0.00 | 4.43 | 15.949 | 15.95 | 537.0 | 0.0 | 1,936.5 |
| 45.73 | Top - Section 1 | 1.00 | 0.79 | 19.219 | 21.14 | 309.60 | 1.000 | 0.00 | 0.73 | 2.594 | 2.59 | 87.7 | 0.0 | 314.9 |
| 50.00 | | 1.00 | 0.81 | 19.716 | 21.68 | 312.41 | 1.000 | 0.00 | 4.27 | 14.982 | 14.98 | 519.9 | 0.0 | 848.4 |
| 55.00 | Appertunance(s) | 1.00 | 0.83 | 20.260 | 22.28 | 308.40 | 1.000 | 0.00 | 5.00 | 17.122 | 17.12 | 610.5 | 0.0 | 969.3 |
| 60.00 | | 1.00 | 0.85 | 20.770 | 22.84 | 303.86 | 1.000 | 0.00 | 5.00 | 16.668 | 16.67 | 609.3 | 0.0 | 943.3 |
| 61.00 | Appertunance(s) | 1.00 | 0.85 | 20.868 | 22.95 | 302.90 | 1.000 | 0.00 | 1.00 | 3.279 | 3.28 | 120.4 | 0.0 | 185.6 |
| 65.00 | | 1.00 | 0.87 | 21.250 | 23.37 | 298.87 | 1.000 | 0.00 | 4.00 | 12.934 | 12.93 | 483.8 | 0.0 | 731.8 |
| 70.00 | | 1.00 | 0.89 | 21.705 | 23.87 | 293.46 | 1.000 | 0.00 | 5.00 | 15.759 | 15.76 | 602.0 | 0.0 | 891.4 |
| 75.00 | | 1.00 | 0.91 | 22.137 | 24.35 | 287.70 | 1.000 | 0.00 | 5.00 | 15.305 | 15.30 | 596.3 | 0.0 | 865.5 |
| 80.00 | | 1.00 | 0.92 | 22.549 | 24.80 | 281.62 | 1.000 | 0.00 | 5.00 | 14.851 | 14.85 | 589.4 | 0.0 | 839.5 |
| 81.00 | Appertunance(s) | 1.00 | 0.93 | 22.630 | 24.89 | 280.37 | 1.000 | 0.00 | 1.00 | 2.916 | 2.92 | 116.1 | 0.0 | 164.8 |
| 81.11 | Bot - Section 3 | 1.00 | 0.93 | 22.639 | 24.90 | 280.22 | 1.000 | 0.00 | 0.11 | 0.329 | 0.33 | 13.1 | 0.0 | 18.6 |
| 85.00 | | 1.00 | 0.94 | 22.943 | 25.23 | 275.24 | 1.000 | 0.00 | 3.89 | 11.362 | 11.36 | 458.8 | 0.0 | 1,166.3 |
| 85.87 | Top - Section 2 | 1.00 | 0.94 | 23.010 | 25.31 | 274.11 | 1.000 | 0.00 | 0.87 | 2.507 | 2.51 | 101.5 | 0.0 | 257.3 |
| 90.00 | | 1.00 | 0.95 | 23.321 | 25.65 | 273.88 | 1.000 | 0.00 | 4.13 | 11.704 | 11.70 | 480.4 | 0.0 | 552.1 |
| 95.00 | | 1.00 | 0.97 | 23.684 | 26.05 | 267.04 | 1.000 | 0.00 | 5.00 | 13.758 | 13.76 | 573.5 | 0.0 | 648.8 |
| 100.0 | | 1.00 | 0.98 | 24.034 | 26.43 | 259.97 | 1.000 | 0.00 | 5.00 | 13.303 | 13.30 | 562.7 | 0.0 | 627.2 |
| 105.0 | Appertunance(s) | 1.00 | 1.00 | 24.371 | 26.80 | 252.70 | 1.000 | 0.00 | 5.00 | 12.849 | 12.85 | 551.1 | 0.0 | 605.5 |
| 110.0 | | 1.00 | 1.01 | 24.697 | 27.16 | 245.23 | 1.000 | 0.00 | 5.00 | 12.395 | 12.39 | 538.8 | 0.0 | 583.9 |
| 115.0 | Appertunance(s) | 1.00 | 1.02 | 25.013 | 27.51 | 237.58 | 1.000 | 0.00 | 5.00 | 11.940 | 11.94 | 525.7 | 0.0 | 562.3 |
| 120.0 | | 1.00 | 1.04 | 25.319 | 27.85 | 229.76 | 1.000 | 0.00 | 5.00 | 11.486 | 11.49 | 511.8 | 0.0 | 540.6 |
| 122.2 | Bot - Section 4 | 1.00 | 1.04 | 25.452 | 27.99 | 226.23 | 1.000 | 0.00 | 2.22 | 4.954 | 4.95 | 221.9 | 0.0 | 233.1 |
| 125.0 | | 1.00 | 1.05 | 25.616 | 28.17 | 221.77 | 1.000 | 0.00 | 2.78 | 6.167 | 6.17 | 278.1 | 0.0 | 460.8 |
| 126.4 | Top - Section 3 | 1.00 | 1.05 | 25.698 | 28.26 | 219.51 | 1.000 | 0.00 | 1.40 | 3.059 | 3.06 | 138.4 | 0.0 | 228.5 |
| 130.0 | Appertunance(s) | 1.00 | 1.06 | 25.905 | 28.49 | 216.98 | 1.000 | 0.00 | 3.60 | 7.680 | 7.68 | 350.1 | 0.0 | 217.8 |
| 135.0 | | 1.00 | 1.07 | 26.185 | 28.80 | 208.73 | 1.000 | 0.00 | 5.00 | 10.285 | 10.29 | 474.0 | 0.0 | 291.6 |
| 140.0 | | 1.00 | 1.08 | 26.459 | 29.10 | 200.34 | 1.000 | 0.00 | 5.00 | 9.831 | 9.83 | 457.8 | 0.0 | 278.6 |
| 142.0 | Appertunance(s) | 1.00 | 1.09 | 26.566 | 29.22 | 196.95 | 1.000 | 0.00 | 2.00 | 3.805 | 3.81 | 177.9 | 0.0 | 107.8 |
| 145.0 | | 1.00 | 1.09 | 26.726 | 29.39 | 191.82 | 1.000 | 0.00 | 3.00 | 5.571 | 5.57 | 262.1 | 0.0 | 157.8 |
| 146.0 | Top - Section 4 | 1.00 | 1.10 | 26.778 | 29.45 | 190.10 | 1.000 | 0.00 | 1.00 | 1.821 | 1.82 | 85.8 | 0.0 | 51.6 |
| 150.0 | Appertunance(s) | 1.00 | 1.11 | 26.986 | 29.68 | 163.58 | 1.000 | 0.00 | 4.00 | 6.212 | 6.21 | 295.0 | 0.0 | 460.2 |
| 155.0 | Appertunance(s) | 1.00 | 1.12 | 27.240 | 29.96 | 164.34 | 1.000 | 0.00 | 5.00 | 7.765 | 7.76 | 372.2 | 0.0 | 575.2 |
| Totals: | | | | | | | | 155.00 | | | | 17,177.7 | 0.0 | 27,886.4 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

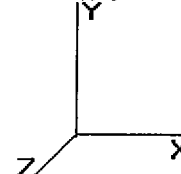
Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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2/1/2010 3:09:00 PM

Page: 5



Load Case: 1.2D + 1.6W

100.00 mph with No Ice

26 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

Wind Load Factor : 1.60

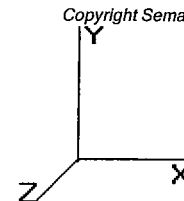
Discrete Appurtenance Segment Forces (Factored)

| Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | CaAa Factor | Ka | Total CaAa (sf) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) | Dead Load (lb) |
|-----------|----------------------|-----|----------|------------|-------------|------|-----------------|----------------|---------------|--------------|---------------|---------------|----------------|
| 15.00 | Dish Standard | 1 | 17.024 | 18.726 | 1.00 | 1.00 | 20.91 | 0.000 | 0.000 | 626.51 | 0.00 | 0.00 | 225.60 |
| 55.00 | 2" x 4" GPS | 1 | 20.278 | 22.305 | 1.00 | 1.00 | 0.04 | 0.000 | 0.167 | 1.43 | 0.00 | 0.24 | 6.00 |
| 55.00 | Stand Off | 1 | 20.260 | 22.286 | 1.00 | 1.00 | 2.00 | 0.000 | 0.000 | 71.32 | 0.00 | 0.00 | 60.00 |
| 61.00 | GPS | 2 | 20.917 | 23.009 | 1.00 | 1.00 | 2.00 | 0.000 | 0.500 | 73.63 | 0.00 | 36.81 | 24.00 |
| 61.00 | Stand Off | 2 | 20.868 | 22.955 | 1.00 | 1.00 | 4.00 | 0.000 | 0.000 | 146.91 | 0.00 | 0.00 | 120.00 |
| 81.00 | GPS | 1 | 22.669 | 24.936 | 1.00 | 1.00 | 1.00 | 0.000 | 0.500 | 39.90 | 0.00 | 19.95 | 12.00 |
| 81.00 | Stand Off | 1 | 22.630 | 24.892 | 1.00 | 1.00 | 2.00 | 0.000 | 0.000 | 79.66 | 0.00 | 0.00 | 60.00 |
| 105.0 | RFS APXV18- | 3 | 24.371 | 26.808 | 0.60 | 0.80 | 9.04 | 0.000 | 0.000 | 387.58 | 0.00 | 0.00 | 79.20 |
| 105.0 | Flush Mounts | 1 | 24.371 | 26.808 | 1.00 | 1.00 | 5.00 | 0.000 | 0.000 | 214.47 | 0.00 | 0.00 | 240.00 |
| 115.0 | 72" x 12" Panel | 3 | 25.013 | 27.514 | 0.60 | 0.80 | 15.12 | 0.000 | 0.000 | 665.62 | 0.00 | 0.00 | 144.00 |
| 115.0 | 48" x 12" Panel | 9 | 25.013 | 27.514 | 0.60 | 0.80 | 30.24 | 0.000 | 0.000 | 1,331.25 | 0.00 | 0.00 | 324.00 |
| 115.0 | Platform w/ Handrail | 1 | 25.013 | 27.514 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,342.69 | 0.00 | 0.00 | 3,000.00 |
| 130.0 | Decibel DB980H65T2E- | 5 | 25.905 | 28.495 | 0.60 | 0.80 | 11.40 | 0.000 | 0.000 | 519.75 | 0.00 | 0.00 | 51.00 |
| 130.0 | Decibel DB980H90A- | 4 | 25.905 | 28.495 | 0.60 | 0.80 | 9.12 | 0.000 | 0.000 | 415.80 | 0.00 | 0.00 | 40.80 |
| 130.0 | Platform w/ Handrail | 1 | 25.905 | 28.495 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,390.56 | 0.00 | 0.00 | 3,000.00 |
| 142.0 | Andrew DB948F85E-M | 6 | 26.566 | 29.223 | 0.56 | 0.75 | 11.04 | 0.000 | 0.000 | 516.02 | 0.00 | 0.00 | 61.20 |
| 142.0 | EMS FV65-15-XL-2 | 3 | 26.566 | 29.223 | 0.59 | 0.75 | 9.95 | 0.000 | 0.000 | 465.42 | 0.00 | 0.00 | 75.60 |
| 142.0 | Swedcom ALP 9212-N | 6 | 26.566 | 29.223 | 0.75 | 0.75 | 20.34 | 0.000 | 0.000 | 951.04 | 0.00 | 0.00 | 192.24 |
| 142.0 | Platform w/ Handrail | 1 | 26.566 | 29.223 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,426.09 | 0.00 | 0.00 | 3,000.00 |
| 150.0 | 7' Omni | 1 | 27.164 | 29.881 | 1.00 | 1.00 | 2.10 | 0.000 | 3.500 | 100.40 | 0.00 | 351.40 | 18.00 |
| 150.0 | Diplexer / Coupler | 6 | 26.986 | 29.684 | 0.50 | 1.00 | 2.13 | 0.000 | 0.000 | 101.16 | 0.00 | 0.00 | 28.80 |
| 150.0 | Powerwave 7770.00 | 3 | 26.986 | 29.684 | 0.59 | 0.80 | 10.55 | 0.000 | 0.000 | 501.13 | 0.00 | 0.00 | 126.00 |
| 150.0 | Platform w/ Handrail | 1 | 26.986 | 29.684 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,448.59 | 0.00 | 0.00 | 3,000.00 |
| 150.0 | CSS DUO4-8670 | 6 | 26.986 | 29.684 | 0.65 | 0.80 | 25.62 | 0.000 | 0.000 | 1,216.91 | 0.00 | 0.00 | 201.60 |
| 150.0 | ADC DD800 | 6 | 26.986 | 29.684 | 0.50 | 1.00 | 3.72 | 3.942 | 0.000 | 176.68 | 696.51 | 0.00 | 100.80 |
| 155.0 | Canister | 1 | 27.649 | 30.414 | 1.00 | 1.00 | 12.00 | 0.000 | 8.300 | 583.94 | 0.00 | 4,846.71 | 600.00 |
| | | | | | | | | | | 14,794.45 | | 4,846.71 | 14,790.84 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)

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 2/1/2010 3:09:00 PM
 Page: 6



Load Case: 1.2D + 1.6W 100.00 mph with No Ice 26 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Linear Appurtenance Segment Forces (Factored)

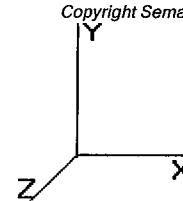
| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | qz (psf) | Ra | Cf Adjust Factor | F X (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|-------|--------------------|-------------|-------------|----------|-------|------------------|----------|----------------|
| 5.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 29.52 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.90 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.90 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.90 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.90 |
| 5.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.90 |
| 10.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 29.52 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.90 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.90 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.90 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.90 |
| 10.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.90 |
| 15.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 29.52 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.90 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.90 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.90 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.90 |
| 15.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.90 |
| 20.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 29.52 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.90 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.90 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.90 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.90 |
| 25.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 29.52 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.90 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.90 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.90 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.90 |
| 30.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 29.52 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.90 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.90 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.90 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.90 |
| 35.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 29.52 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.90 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.90 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.90 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.90 |
| 40.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 29.52 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.90 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.90 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.90 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.90 |
| 40.57 | (6) 1 5/8" Coax | Yes | 0.57 | 0.000 | 2.00 | 0.10 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 3.37 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.10 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.10 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.10 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.00 | 0.00 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.10 |
| 45.00 | (6) 1 5/8" Coax | Yes | 4.43 | 0.000 | 2.00 | 0.74 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 26.15 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.80 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.80 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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 Page: 7

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.6W

100.00 mph with No Ice

26 Iterations

Gust Response Factor : 1.10

Wind Importance Factor : 1.00

Dead Load Factor : 1.20

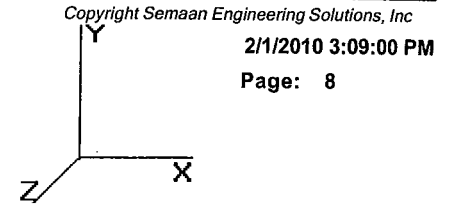
Wind Load Factor : 1.60

| | | | | | | | | | | | | |
|----------------|-----------------|-----|------|-------|------|------|------|--------|-------|-------|------|--------|
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.80 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.00 | 0.00 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.80 |
| 45.73 | (6) 1 5/8" Coax | Yes | 0.73 | 0.000 | 2.00 | 0.12 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 4.31 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.13 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.13 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.13 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.00 | 0.00 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.13 |
| 50.00 | (6) 1 5/8" Coax | Yes | 4.27 | 0.000 | 2.00 | 0.71 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 25.21 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.77 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.77 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.77 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.00 | 0.00 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.77 |
| 55.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 29.52 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.90 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.90 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.90 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.90 |
| 60.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 29.52 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 0.90 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 0.90 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 0.90 |
| 61.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.17 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 5.90 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 0.18 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 0.18 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 0.18 |
| 65.00 | (6) 1 5/8" Coax | Yes | 4.00 | 0.000 | 2.00 | 0.67 | 0.00 | 21.250 | 0.068 | 0.000 | 0.00 | 23.61 |
| 65.00 | (1) 1/2" Coax | Yes | 4.00 | 0.000 | 0.63 | 0.21 | 0.00 | 21.250 | 0.068 | 0.000 | 0.00 | 0.72 |
| 70.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 21.705 | 0.070 | 0.000 | 0.00 | 29.52 |
| 70.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 21.705 | 0.070 | 0.000 | 0.00 | 0.90 |
| 75.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 22.137 | 0.072 | 0.000 | 0.00 | 29.52 |
| 75.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 22.137 | 0.072 | 0.000 | 0.00 | 0.90 |
| 80.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 22.549 | 0.074 | 0.000 | 0.00 | 29.52 |
| 80.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 22.549 | 0.074 | 0.000 | 0.00 | 0.90 |
| 81.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.17 | 0.00 | 22.630 | 0.075 | 0.000 | 0.00 | 5.90 |
| 81.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 22.630 | 0.075 | 0.000 | 0.00 | 0.18 |
| 81.11 | (6) 1 5/8" Coax | Yes | 0.11 | 0.000 | 2.00 | 0.02 | 0.00 | 22.639 | 0.057 | 0.000 | 0.00 | 0.67 |
| 85.00 | (6) 1 5/8" Coax | Yes | 3.89 | 0.000 | 2.00 | 0.65 | 0.00 | 22.943 | 0.058 | 0.000 | 0.00 | 22.95 |
| 85.87 | (6) 1 5/8" Coax | Yes | 0.87 | 0.000 | 2.00 | 0.15 | 0.00 | 23.010 | 0.059 | 0.000 | 0.00 | 5.14 |
| 90.00 | (6) 1 5/8" Coax | Yes | 4.13 | 0.000 | 2.00 | 0.69 | 0.00 | 23.321 | 0.059 | 0.000 | 0.00 | 24.38 |
| 95.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 23.684 | 0.061 | 0.000 | 0.00 | 29.52 |
| 100.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 24.034 | 0.063 | 0.000 | 0.00 | 29.52 |
| 105.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 24.371 | 0.065 | 0.000 | 0.00 | 29.52 |
| Totals: | | | | | | | | | | | 0.00 | 668.98 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.6W

100.00 mph with No Ice

26 Iterations

Gust Response Factor : 1.10
 Dead Load Factor : 1.20
 Wind Load Factor : 1.60

Wind Importance Factor : 1.00

Applied Segment Forces Summary

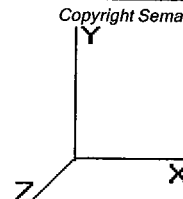
| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|---------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5.00 | 639.43 | 1,700.13 | 0.00 | 0.00 |
| 10.00 | 625.82 | 1,669.85 | 0.00 | 0.00 |
| 15.00 | 1,238.71 | 1,865.16 | 0.00 | 0.00 |
| 20.00 | 598.60 | 1,608.37 | 0.00 | 0.00 |
| 25.00 | 584.98 | 1,578.08 | 0.00 | 0.00 |
| 30.00 | 571.86 | 1,547.79 | 0.00 | 0.00 |
| 35.00 | 583.37 | 1,517.50 | 0.00 | 0.00 |
| 40.00 | 591.27 | 1,487.21 | 0.00 | 0.00 |
| 40.57 | 66.82 | 167.84 | 0.00 | 0.00 |
| 45.00 | 537.03 | 2,192.43 | 0.00 | 0.00 |
| 45.73 | 87.75 | 357.06 | 0.00 | 0.00 |
| 50.00 | 519.88 | 1,095.05 | 0.00 | 0.00 |
| 55.00 | 683.27 | 1,324.17 | 0.00 | 0.24 |
| 60.00 | 609.29 | 1,231.30 | 0.00 | 0.00 |
| 61.00 | 340.97 | 387.15 | 0.00 | 36.81 |
| 65.00 | 483.76 | 960.76 | 0.00 | 0.00 |
| 70.00 | 602.02 | 1,177.58 | 0.00 | 0.00 |
| 75.00 | 596.31 | 1,151.62 | 0.00 | 0.00 |
| 80.00 | 589.38 | 1,125.66 | 0.00 | 0.00 |
| 81.00 | 235.68 | 294.02 | 0.00 | 19.95 |
| 81.11 | 13.10 | 25.03 | 0.00 | 0.00 |
| 85.00 | 458.79 | 1,388.05 | 0.00 | 0.00 |
| 85.87 | 101.54 | 306.98 | 0.00 | 0.00 |
| 90.00 | 480.41 | 787.73 | 0.00 | 0.00 |
| 95.00 | 573.47 | 934.06 | 0.00 | 0.00 |
| 100.0 | 562.72 | 912.43 | 0.00 | 0.00 |
| 105.0 | 1,153.18 | 1,209.99 | 0.00 | 0.00 |
| 110.0 | 538.76 | 839.64 | 0.00 | 0.00 |
| 115.0 | 3,865.22 | 4,286.01 | 0.00 | 0.00 |
| 120.0 | 511.84 | 737.34 | 0.00 | 0.00 |
| 122.2 | 221.93 | 320.45 | 0.00 | 0.00 |
| 125.0 | 278.06 | 570.21 | 0.00 | 0.00 |
| 126.4 | 138.37 | 283.72 | 0.00 | 0.00 |
| 130.0 | 2,676.26 | 3,451.11 | 0.00 | 0.00 |
| 135.0 | 474.01 | 444.03 | 0.00 | 0.00 |
| 140.0 | 457.80 | 431.05 | 0.00 | 0.00 |
| 142.0 | 3,536.48 | 3,497.83 | 0.00 | 0.00 |
| 145.0 | 262.07 | 205.01 | 0.00 | 0.00 |
| 146.0 | 85.82 | 67.30 | 0.00 | 0.00 |
| 150.0 | 3,839.89 | 3,998.30 | 696.51 | 351.40 |
| 155.0 | 956.19 | 1,204.76 | 0.00 | 4,846.71 |
| Totals: | 31,972.11 | 50,339.75 | 696.51 | 5,255.11 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)



| | | |
|-------------------------------|------------------------|-------------------------------|
| Load Case: 1.2D + 1.6W | 100.00 mph with No Ice | 26 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.20 | | |
| Wind Load Factor : 1.60 | | |

Calculated Forces

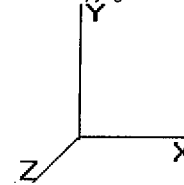
| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -50.28 | -32.07 | -0.67 | -3,366.76 | -0.03 | 3,366.76 | 4,084.54 | 2,042.27 | 8,349.33 | 4,123.42 | 0.00 | 0.00 | 0.829 |
| 5.00 | -48.46 | -31.61 | -0.67 | -3,206.43 | -0.03 | 3,206.43 | 3,997.75 | 1,998.88 | 7,996.78 | 3,949.31 | 0.11 | -0.21 | 0.824 |
| 10.00 | -46.68 | -31.15 | -0.67 | -3,048.39 | -0.03 | 3,048.39 | 3,910.97 | 1,955.48 | 7,651.83 | 3,778.95 | 0.45 | -0.43 | 0.819 |
| 15.00 | -44.71 | -30.07 | -0.67 | -2,892.65 | -0.03 | 2,892.65 | 3,824.18 | 1,912.09 | 7,314.48 | 3,612.35 | 1.02 | -0.65 | 0.813 |
| 20.00 | -42.99 | -29.62 | -0.67 | -2,742.31 | -0.03 | 2,742.31 | 3,737.39 | 1,868.70 | 6,984.75 | 3,449.50 | 1.82 | -0.87 | 0.807 |
| 25.00 | -41.31 | -29.17 | -0.67 | -2,594.24 | -0.03 | 2,594.24 | 3,650.61 | 1,825.30 | 6,662.61 | 3,290.41 | 2.86 | -1.10 | 0.800 |
| 30.00 | -39.66 | -28.72 | -0.67 | -2,448.40 | -0.03 | 2,448.40 | 3,563.82 | 1,781.91 | 6,348.08 | 3,135.08 | 4.13 | -1.33 | 0.792 |
| 35.00 | -38.04 | -28.26 | -0.68 | -2,304.78 | -0.03 | 2,304.78 | 3,477.03 | 1,738.52 | 6,041.16 | 2,983.50 | 5.65 | -1.56 | 0.784 |
| 40.00 | -36.51 | -27.71 | -0.68 | -2,163.50 | -0.03 | 2,163.50 | 3,390.25 | 1,695.12 | 5,741.84 | 2,835.68 | 7.41 | -1.80 | 0.774 |
| 40.57 | -36.28 | -27.71 | -0.68 | -2,147.69 | -0.03 | 2,147.69 | 3,380.34 | 1,690.17 | 5,708.16 | 2,819.04 | 7.63 | -1.82 | 0.773 |
| 45.00 | -34.05 | -27.17 | -0.68 | -2,024.95 | -0.03 | 2,024.95 | 3,303.46 | 1,651.73 | 5,450.13 | 2,691.61 | 9.42 | -2.04 | 0.763 |
| 45.73 | -33.64 | -27.14 | -0.68 | -2,005.12 | -0.03 | 2,005.12 | 2,878.07 | 1,439.04 | 4,834.53 | 2,387.59 | 9.74 | -2.07 | 0.852 |
| 50.00 | -32.46 | -26.72 | -0.68 | -1,889.21 | -0.03 | 1,889.21 | 2,814.54 | 1,407.27 | 4,622.50 | 2,282.88 | 11.69 | -2.28 | 0.839 |
| 55.00 | -31.04 | -26.12 | -0.68 | -1,755.62 | -0.03 | 1,755.62 | 2,740.15 | 1,370.08 | 4,380.28 | 2,163.25 | 14.21 | -2.55 | 0.823 |
| 60.00 | -29.77 | -25.54 | -0.68 | -1,625.00 | -0.03 | 1,625.00 | 2,665.77 | 1,332.88 | 4,144.57 | 2,046.85 | 17.02 | -2.81 | 0.805 |
| 61.00 | -29.34 | -25.25 | -0.68 | -1,599.42 | -0.04 | 1,599.42 | 2,650.89 | 1,325.44 | 4,098.21 | 2,023.95 | 17.62 | -2.87 | 0.802 |
| 65.00 | -28.30 | -24.84 | -0.68 | -1,498.42 | -0.04 | 1,498.42 | 2,591.38 | 1,295.69 | 3,915.38 | 1,933.66 | 20.11 | -3.08 | 0.786 |
| 70.00 | -27.04 | -24.30 | -0.68 | -1,374.22 | -0.04 | 1,374.22 | 2,516.99 | 1,258.49 | 3,692.71 | 1,823.69 | 23.49 | -3.35 | 0.765 |
| 75.00 | -25.82 | -23.75 | -0.68 | -1,252.73 | -0.04 | 1,252.73 | 2,442.60 | 1,221.30 | 3,476.56 | 1,716.94 | 27.14 | -3.62 | 0.741 |
| 80.00 | -24.67 | -23.16 | -0.68 | -1,133.97 | -0.04 | 1,133.97 | 2,368.21 | 1,184.11 | 3,266.93 | 1,613.41 | 31.07 | -3.89 | 0.714 |
| 81.00 | -24.38 | -22.92 | -0.68 | -1,110.79 | -0.04 | 1,110.79 | 2,353.33 | 1,176.67 | 3,225.79 | 1,593.10 | 31.89 | -3.94 | 0.708 |
| 81.11 | -24.31 | -22.95 | -0.68 | -1,108.19 | -0.04 | 1,108.19 | 2,351.65 | 1,175.83 | 3,221.15 | 1,590.80 | 31.99 | -3.95 | 0.707 |
| 85.00 | -22.91 | -22.44 | -0.68 | -1,018.99 | -0.04 | 1,018.99 | 2,293.82 | 1,146.91 | 3,063.82 | 1,513.11 | 35.28 | -4.16 | 0.684 |
| 85.87 | -22.56 | -22.37 | -0.68 | -999.45 | -0.04 | 999.45 | 1,941.20 | 970.60 | 2,638.48 | 1,303.04 | 36.05 | -4.20 | 0.779 |
| 90.00 | -21.72 | -21.93 | -0.68 | -907.07 | -0.05 | 907.07 | 1,890.00 | 945.00 | 2,500.51 | 1,234.91 | 39.77 | -4.42 | 0.747 |
| 95.00 | -20.73 | -21.39 | -0.68 | -797.42 | -0.05 | 797.42 | 1,828.01 | 914.00 | 2,338.40 | 1,154.85 | 44.55 | -4.70 | 0.702 |
| 100.00 | -19.77 | -20.84 | -0.68 | -690.49 | -0.05 | 690.49 | 1,766.02 | 883.01 | 2,181.73 | 1,077.48 | 49.62 | -4.98 | 0.653 |
| 105.00 | -18.58 | -19.67 | -0.68 | -586.29 | -0.06 | 586.29 | 1,704.03 | 852.01 | 2,030.49 | 1,002.78 | 54.97 | -5.24 | 0.596 |
| 110.00 | -17.71 | -19.13 | -0.69 | -487.95 | -0.06 | 487.95 | 1,642.04 | 821.02 | 1,884.69 | 930.78 | 60.59 | -5.49 | 0.536 |
| 115.00 | -13.77 | -14.91 | -0.69 | -392.33 | -0.06 | 392.33 | 1,580.05 | 790.02 | 1,744.31 | 861.45 | 66.45 | -5.71 | 0.465 |
| 120.00 | -13.05 | -14.36 | -0.69 | -317.77 | -0.06 | 317.77 | 1,518.06 | 759.03 | 1,609.37 | 794.81 | 72.53 | -5.91 | 0.409 |
| 122.22 | -12.73 | -14.13 | -0.69 | -285.89 | -0.07 | 285.89 | 1,490.53 | 745.27 | 1,551.20 | 766.08 | 75.30 | -6.00 | 0.382 |
| 125.00 | -12.18 | -13.81 | -0.69 | -246.62 | -0.07 | 246.62 | 1,456.07 | 728.03 | 1,479.86 | 730.85 | 78.81 | -6.10 | 0.346 |
| 126.40 | -11.89 | -13.65 | -0.69 | -227.25 | -0.07 | 227.25 | 828.07 | 414.03 | 852.87 | 421.20 | 80.61 | -6.15 | 0.555 |
| 130.00 | -8.72 | -10.65 | -0.69 | -178.14 | -0.07 | 178.14 | 816.88 | 408.44 | 815.60 | 402.79 | 85.28 | -6.26 | 0.454 |
| 135.00 | -8.30 | -10.15 | -0.69 | -124.92 | -0.07 | 124.92 | 799.87 | 399.94 | 763.57 | 377.10 | 91.94 | -6.46 | 0.342 |
| 140.00 | -7.91 | -9.66 | -0.69 | -74.17 | -0.08 | 74.17 | 779.72 | 389.86 | 710.17 | 350.73 | 98.77 | -6.61 | 0.222 |
| 142.00 | -4.84 | -5.75 | -0.69 | -54.85 | -0.08 | 54.85 | 764.84 | 382.42 | 683.21 | 337.41 | 101.54 | -6.65 | 0.169 |
| 145.00 | -4.66 | -5.46 | -0.69 | -37.61 | -0.08 | 37.61 | 742.52 | 371.26 | 643.76 | 317.93 | 105.73 | -6.70 | 0.125 |
| 146.00 | -4.60 | -5.37 | -0.69 | -32.15 | -0.08 | 32.15 | 735.08 | 367.54 | 630.87 | 311.56 | 107.13 | -6.72 | 0.110 |
| 146.00 | -4.60 | -5.37 | -0.69 | -32.15 | -0.08 | 32.15 | 735.08 | 367.54 | 630.87 | 311.56 | 107.13 | -6.72 | 0.091 |
| 150.00 | -1.08 | -1.09 | 0.00 | -10.30 | 0.00 | 10.30 | 1,065.01 | 532.51 | 753.93 | 372.34 | 112.76 | -6.75 | 0.029 |
| 155.00 | 0.00 | -0.96 | 0.00 | -4.85 | 0.00 | 4.85 | 1,065.01 | 532.51 | 753.93 | 372.34 | 119.82 | -6.76 | 0.013 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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| | | |
|-------------------------------|-------------------------------------|-------------------------------|
| Load Case: 0.9D + 1.6W | 100.00 mph with No Ice (Reduced DL) | 26 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 0.90 | | |
| Wind Load Factor : 1.60 | | |

Shaft Segment Forces (Factored)

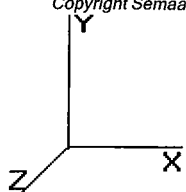
| Seg Top Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-------------------|-----------------|------|------|----------|------------|------------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 360.90 | 1.000 | 0.00 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 353.30 | 1.000 | 0.00 | 5.00 | 21.341 | 21.34 | 639.4 | 0.0 | 1,057.8 |
| 10.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 345.70 | 1.000 | 0.00 | 5.00 | 20.887 | 20.89 | 625.8 | 0.0 | 1,035.1 |
| 15.00 | Appertunance(s) | 1.00 | 0.70 | 17.024 | 18.72 | 338.10 | 1.000 | 0.00 | 5.00 | 20.433 | 20.43 | 612.2 | 0.0 | 1,012.3 |
| 20.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 330.50 | 1.000 | 0.00 | 5.00 | 19.978 | 19.98 | 598.6 | 0.0 | 989.6 |
| 25.00 | | 1.00 | 0.70 | 17.024 | 18.72 | 322.90 | 1.000 | 0.00 | 5.00 | 19.524 | 19.52 | 585.0 | 0.0 | 966.9 |
| 30.00 | | 1.00 | 0.70 | 17.038 | 18.74 | 315.43 | 1.000 | 0.00 | 5.00 | 19.070 | 19.07 | 571.9 | 0.0 | 944.2 |
| 35.00 | | 1.00 | 0.73 | 17.806 | 19.58 | 314.68 | 1.000 | 0.00 | 5.00 | 18.616 | 18.62 | 583.4 | 0.0 | 921.5 |
| 40.00 | | 1.00 | 0.76 | 18.498 | 20.34 | 312.81 | 1.000 | 0.00 | 5.00 | 18.161 | 18.16 | 591.3 | 0.0 | 898.8 |
| 40.57 | Bot - Section 2 | 1.00 | 0.76 | 18.573 | 20.43 | 312.54 | 1.000 | 0.00 | 0.57 | 2.044 | 2.04 | 66.8 | 0.0 | 101.1 |
| 45.00 | | 1.00 | 0.78 | 19.131 | 21.04 | 310.06 | 1.000 | 0.00 | 4.43 | 15.949 | 15.95 | 537.0 | 0.0 | 1,452.4 |
| 45.73 | Top - Section 1 | 1.00 | 0.79 | 19.219 | 21.14 | 309.60 | 1.000 | 0.00 | 0.73 | 2.594 | 2.59 | 87.7 | 0.0 | 236.2 |
| 50.00 | | 1.00 | 0.81 | 19.716 | 21.68 | 312.41 | 1.000 | 0.00 | 4.27 | 14.982 | 14.98 | 519.9 | 0.0 | 636.3 |
| 55.00 | Appertunance(s) | 1.00 | 0.83 | 20.260 | 22.28 | 308.40 | 1.000 | 0.00 | 5.00 | 17.122 | 17.12 | 610.5 | 0.0 | 727.0 |
| 60.00 | | 1.00 | 0.85 | 20.770 | 22.84 | 303.86 | 1.000 | 0.00 | 5.00 | 16.668 | 16.67 | 609.3 | 0.0 | 707.5 |
| 61.00 | Appertunance(s) | 1.00 | 0.85 | 20.868 | 22.95 | 302.90 | 1.000 | 0.00 | 1.00 | 3.279 | 3.28 | 120.4 | 0.0 | 139.2 |
| 65.00 | | 1.00 | 0.87 | 21.250 | 23.37 | 298.87 | 1.000 | 0.00 | 4.00 | 12.934 | 12.93 | 483.8 | 0.0 | 548.9 |
| 70.00 | | 1.00 | 0.89 | 21.705 | 23.87 | 293.46 | 1.000 | 0.00 | 5.00 | 15.759 | 15.76 | 602.0 | 0.0 | 668.6 |
| 75.00 | | 1.00 | 0.91 | 22.137 | 24.35 | 287.70 | 1.000 | 0.00 | 5.00 | 15.305 | 15.30 | 596.3 | 0.0 | 649.1 |
| 80.00 | | 1.00 | 0.92 | 22.549 | 24.80 | 281.62 | 1.000 | 0.00 | 5.00 | 14.851 | 14.85 | 589.4 | 0.0 | 629.6 |
| 81.00 | Appertunance(s) | 1.00 | 0.93 | 22.630 | 24.89 | 280.37 | 1.000 | 0.00 | 1.00 | 2.916 | 2.92 | 116.1 | 0.0 | 123.6 |
| 81.11 | Bot - Section 3 | 1.00 | 0.93 | 22.639 | 24.90 | 280.22 | 1.000 | 0.00 | 0.11 | 0.329 | 0.33 | 13.1 | 0.0 | 13.9 |
| 85.00 | | 1.00 | 0.94 | 22.943 | 25.23 | 275.24 | 1.000 | 0.00 | 3.89 | 11.362 | 11.36 | 458.8 | 0.0 | 874.7 |
| 85.87 | Top - Section 2 | 1.00 | 0.94 | 23.010 | 25.31 | 274.11 | 1.000 | 0.00 | 0.87 | 2.507 | 2.51 | 101.5 | 0.0 | 193.0 |
| 90.00 | | 1.00 | 0.95 | 23.321 | 25.65 | 273.88 | 1.000 | 0.00 | 4.13 | 11.704 | 11.70 | 480.4 | 0.0 | 414.1 |
| 95.00 | | 1.00 | 0.97 | 23.684 | 26.05 | 267.04 | 1.000 | 0.00 | 5.00 | 13.758 | 13.76 | 573.5 | 0.0 | 486.6 |
| 100.00 | | 1.00 | 0.98 | 24.034 | 26.43 | 259.97 | 1.000 | 0.00 | 5.00 | 13.303 | 13.30 | 562.7 | 0.0 | 470.4 |
| 105.00 | Appertunance(s) | 1.00 | 1.00 | 24.371 | 26.80 | 252.70 | 1.000 | 0.00 | 5.00 | 12.849 | 12.85 | 551.1 | 0.0 | 454.1 |
| 110.00 | | 1.00 | 1.01 | 24.697 | 27.16 | 245.23 | 1.000 | 0.00 | 5.00 | 12.395 | 12.39 | 538.8 | 0.0 | 437.9 |
| 115.00 | Appertunance(s) | 1.00 | 1.02 | 25.013 | 27.51 | 237.58 | 1.000 | 0.00 | 5.00 | 11.940 | 11.94 | 525.7 | 0.0 | 421.7 |
| 120.00 | | 1.00 | 1.04 | 25.319 | 27.85 | 229.76 | 1.000 | 0.00 | 5.00 | 11.486 | 11.49 | 511.8 | 0.0 | 405.5 |
| 122.2 | Bot - Section 4 | 1.00 | 1.04 | 25.452 | 27.99 | 226.23 | 1.000 | 0.00 | 2.22 | 4.954 | 4.95 | 221.9 | 0.0 | 174.8 |
| 125.00 | | 1.00 | 1.05 | 25.616 | 28.17 | 221.77 | 1.000 | 0.00 | 2.78 | 6.167 | 6.17 | 278.1 | 0.0 | 345.6 |
| 126.4 | Top - Section 3 | 1.00 | 1.05 | 25.698 | 28.26 | 219.51 | 1.000 | 0.00 | 1.40 | 3.059 | 3.06 | 138.4 | 0.0 | 171.4 |
| 130.00 | Appertunance(s) | 1.00 | 1.06 | 25.905 | 28.49 | 216.98 | 1.000 | 0.00 | 3.60 | 7.680 | 7.68 | 350.1 | 0.0 | 163.3 |
| 135.00 | | 1.00 | 1.07 | 26.185 | 28.80 | 208.73 | 1.000 | 0.00 | 5.00 | 10.285 | 10.29 | 474.0 | 0.0 | 218.7 |
| 140.00 | | 1.00 | 1.08 | 26.459 | 29.10 | 200.34 | 1.000 | 0.00 | 5.00 | 9.831 | 9.83 | 457.8 | 0.0 | 209.0 |
| 142.00 | Appertunance(s) | 1.00 | 1.09 | 26.566 | 29.22 | 196.95 | 1.000 | 0.00 | 2.00 | 3.805 | 3.81 | 177.9 | 0.0 | 80.9 |
| 145.00 | | 1.00 | 1.09 | 26.726 | 29.39 | 191.82 | 1.000 | 0.00 | 3.00 | 5.571 | 5.57 | 262.1 | 0.0 | 118.4 |
| 146.00 | Top - Section 4 | 1.00 | 1.10 | 26.778 | 29.45 | 190.10 | 1.000 | 0.00 | 1.00 | 1.821 | 1.82 | 85.8 | 0.0 | 38.7 |
| 150.00 | Appertunance(s) | 1.00 | 1.11 | 26.986 | 29.68 | 163.58 | 1.000 | 0.00 | 4.00 | 6.212 | 6.21 | 295.0 | 0.0 | 345.1 |
| 155.00 | Appertunance(s) | 1.00 | 1.12 | 27.240 | 29.96 | 164.34 | 1.000 | 0.00 | 5.00 | 7.765 | 7.76 | 372.2 | 0.0 | 431.4 |
| Totals: | | | | | | | | 155.00 | | | | 17,177.7 | 0.0 | 20,914.8 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Load Case: 0.9D + 1.6W 100.00 mph with No Ice (Reduced DL) 26 Iterations
Gust Response Factor: 1.10 **Wind Importance Factor:** 1.00
Dead Load Factor: 0.90
Wind Load Factor: 1.60

Discrete Appurtenance Segment Forces (Factored)

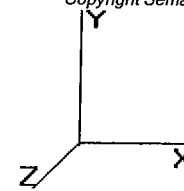
| Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | CaAa Factor | Ka | Total CaAa (sf) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) | Dead Load (lb) |
|-----------|----------------------|-----|----------|------------|-------------|------|-----------------|----------------|---------------|--------------|---------------|---------------|----------------|
| 15.00 | Dish Standard | 1 | 17.024 | 18.726 | 1.00 | 1.00 | 20.91 | 0.000 | 0.000 | 626.51 | 0.00 | 0.00 | 169.20 |
| 55.00 | 2" x 4" GPS | 1 | 20.278 | 22.305 | 1.00 | 1.00 | 0.04 | 0.000 | 0.167 | 1.43 | 0.00 | 0.24 | 4.50 |
| 55.00 | Stand Off | 1 | 20.260 | 22.286 | 1.00 | 1.00 | 2.00 | 0.000 | 0.000 | 71.32 | 0.00 | 0.00 | 45.00 |
| 61.00 | GPS | 2 | 20.917 | 23.009 | 1.00 | 1.00 | 2.00 | 0.000 | 0.500 | 73.63 | 0.00 | 36.81 | 18.00 |
| 61.00 | Stand Off | 2 | 20.868 | 22.955 | 1.00 | 1.00 | 4.00 | 0.000 | 0.000 | 146.91 | 0.00 | 0.00 | 90.00 |
| 81.00 | GPS | 1 | 22.669 | 24.936 | 1.00 | 1.00 | 1.00 | 0.000 | 0.500 | 39.90 | 0.00 | 19.95 | 9.00 |
| 81.00 | Stand Off | 1 | 22.630 | 24.892 | 1.00 | 1.00 | 2.00 | 0.000 | 0.000 | 79.66 | 0.00 | 0.00 | 45.00 |
| 105.0 | RFS APXV18- | 3 | 24.371 | 26.808 | 0.60 | 0.80 | 9.04 | 0.000 | 0.000 | 387.58 | 0.00 | 0.00 | 59.40 |
| 105.0 | Flush Mounts | 1 | 24.371 | 26.808 | 1.00 | 1.00 | 5.00 | 0.000 | 0.000 | 214.47 | 0.00 | 0.00 | 180.00 |
| 115.0 | 72" x 12" Panel | 3 | 25.013 | 27.514 | 0.60 | 0.80 | 15.12 | 0.000 | 0.000 | 665.62 | 0.00 | 0.00 | 108.00 |
| 115.0 | 48" x 12" Panel | 9 | 25.013 | 27.514 | 0.60 | 0.80 | 30.24 | 0.000 | 0.000 | 1,331.25 | 0.00 | 0.00 | 243.00 |
| 115.0 | Platform w/ Handrail | 1 | 25.013 | 27.514 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,342.69 | 0.00 | 0.00 | 2,250.00 |
| 130.0 | Decibel DB980H65T2E- | 5 | 25.905 | 28.495 | 0.60 | 0.80 | 11.40 | 0.000 | 0.000 | 519.75 | 0.00 | 0.00 | 38.25 |
| 130.0 | Decibel DB980H90A- | 4 | 25.905 | 28.495 | 0.60 | 0.80 | 9.12 | 0.000 | 0.000 | 415.80 | 0.00 | 0.00 | 30.60 |
| 130.0 | Platform w/ Handrail | 1 | 25.905 | 28.495 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,390.56 | 0.00 | 0.00 | 2,250.00 |
| 142.0 | Andrew DB948F85E-M | 6 | 26.566 | 29.223 | 0.56 | 0.75 | 11.04 | 0.000 | 0.000 | 516.02 | 0.00 | 0.00 | 45.90 |
| 142.0 | EMS FV65-15-XL-2 | 3 | 26.566 | 29.223 | 0.59 | 0.75 | 9.95 | 0.000 | 0.000 | 465.42 | 0.00 | 0.00 | 56.70 |
| 142.0 | Swedcom ALP 9212-N | 6 | 26.566 | 29.223 | 0.75 | 0.75 | 20.34 | 0.000 | 0.000 | 951.04 | 0.00 | 0.00 | 144.18 |
| 142.0 | Platform w/ Handrail | 1 | 26.566 | 29.223 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,426.09 | 0.00 | 0.00 | 2,250.00 |
| 150.0 | 7' Omni | 1 | 27.164 | 29.881 | 1.00 | 1.00 | 2.10 | 0.000 | 3.500 | 100.40 | 0.00 | 351.40 | 13.50 |
| 150.0 | Diplexer / Coupler | 6 | 26.986 | 29.684 | 0.50 | 1.00 | 2.13 | 0.000 | 0.000 | 101.16 | 0.00 | 0.00 | 21.60 |
| 150.0 | Powerwave 7770.00 | 3 | 26.986 | 29.684 | 0.59 | 0.80 | 10.55 | 0.000 | 0.000 | 501.13 | 0.00 | 0.00 | 94.50 |
| 150.0 | Platform w/ Handrail | 1 | 26.986 | 29.684 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 1,448.59 | 0.00 | 0.00 | 2,250.00 |
| 150.0 | CSS DUO4-8670 | 6 | 26.986 | 29.684 | 0.65 | 0.80 | 25.62 | 0.000 | 0.000 | 1,216.91 | 0.00 | 0.00 | 151.20 |
| 150.0 | ADC DD800 | 6 | 26.986 | 29.684 | 0.50 | 1.00 | 3.72 | 3.942 | 0.000 | 176.68 | 696.51 | 0.00 | 75.60 |
| 155.0 | Canister | 1 | 27.649 | 30.414 | 1.00 | 1.00 | 12.00 | 0.000 | 8.300 | 583.94 | 0.00 | 4,846.71 | 450.00 |
| | | | | | | | | | | 14,794.45 | | | 11,093.13 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)



Load Case: 0.9D + 1.6W 100.00 mph with No Ice (Reduced DL) 26 Iterations

Gust Response Factor : 1.10 Wind Importance Factor : 1.00

Dead Load Factor : 0.90

Wind Load Factor : 1.60

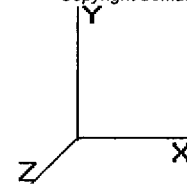
Linear Appurtenance Segment Forces (Factored)

| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | qz (psf) | Ra | Cf Adjust Factor | FX (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|-------|--------------------|-------------|-------------|----------|-------|------------------|---------|----------------|
| 5.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 22.14 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.68 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.68 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.68 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.68 |
| 5.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.076 | 0.000 | 0.00 | 0.68 |
| 10.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 22.14 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.68 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.68 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.68 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.68 |
| 10.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.078 | 0.000 | 0.00 | 0.68 |
| 15.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 22.14 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.68 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.68 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.68 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.68 |
| 15.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.079 | 0.000 | 0.00 | 0.68 |
| 20.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 22.14 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.68 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.68 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.68 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.081 | 0.000 | 0.00 | 0.68 |
| 25.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 22.14 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.68 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.68 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.68 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.024 | 0.083 | 0.000 | 0.00 | 0.68 |
| 30.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 22.14 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.68 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.68 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.68 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.038 | 0.085 | 0.000 | 0.00 | 0.68 |
| 35.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 22.14 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.68 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.68 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.68 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 17.806 | 0.087 | 0.000 | 0.00 | 0.68 |
| 40.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 22.14 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.68 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.68 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.68 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 18.498 | 0.089 | 0.000 | 0.00 | 0.68 |
| 40.57 | (6) 1 5/8" Coax | Yes | 0.57 | 0.000 | 2.00 | 0.10 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 2.53 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.08 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.08 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.08 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.00 | 0.00 | 0.00 | 18.573 | 0.091 | 0.000 | 0.00 | 0.08 |
| 45.00 | (6) 1 5/8" Coax | Yes | 4.43 | 0.000 | 2.00 | 0.74 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 19.61 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.60 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.60 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



| | | |
|-------------------------------|-------------------------------------|-------------------------------|
| Load Case: 0.9D + 1.6W | 100.00 mph with No Ice (Reduced DL) | 26 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 0.90 | | |
| Wind Load Factor : 1.60 | | |

| | | | | | | | | | | | | |
|-------|-----------------|-----|------|-------|------|------|------|--------|-------|---------|------|--------|
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.60 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.00 | 0.00 | 0.00 | 19.131 | 0.092 | 0.000 | 0.00 | 0.60 |
| 45.73 | (6) 1 5/8" Coax | Yes | 0.73 | 0.000 | 2.00 | 0.12 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 3.23 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.10 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.10 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.10 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.00 | 0.00 | 0.00 | 19.219 | 0.093 | 0.000 | 0.00 | 0.10 |
| 50.00 | (6) 1 5/8" Coax | Yes | 4.27 | 0.000 | 2.00 | 0.71 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 18.91 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.58 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.58 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.58 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.00 | 0.00 | 0.00 | 19.716 | 0.092 | 0.000 | 0.00 | 0.58 |
| 55.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 22.14 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.68 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.68 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.68 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 20.260 | 0.095 | 0.000 | 0.00 | 0.68 |
| 60.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 22.14 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 0.68 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 0.68 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 20.770 | 0.097 | 0.000 | 0.00 | 0.68 |
| 61.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.17 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 4.43 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 0.14 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 0.14 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 20.868 | 0.099 | 0.000 | 0.00 | 0.14 |
| 65.00 | (6) 1 5/8" Coax | Yes | 4.00 | 0.000 | 2.00 | 0.67 | 0.00 | 21.250 | 0.068 | 0.000 | 0.00 | 17.71 |
| 65.00 | (1) 1/2" Coax | Yes | 4.00 | 0.000 | 0.63 | 0.21 | 0.00 | 21.250 | 0.068 | 0.000 | 0.00 | 0.54 |
| 70.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 21.705 | 0.070 | 0.000 | 0.00 | 22.14 |
| 70.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 21.705 | 0.070 | 0.000 | 0.00 | 0.68 |
| 75.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 22.137 | 0.072 | 0.000 | 0.00 | 22.14 |
| 75.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 22.137 | 0.072 | 0.000 | 0.00 | 0.68 |
| 80.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 22.549 | 0.074 | 0.000 | 0.00 | 22.14 |
| 80.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 22.549 | 0.074 | 0.000 | 0.00 | 0.68 |
| 81.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.17 | 0.00 | 22.630 | 0.075 | 0.000 | 0.00 | 4.43 |
| 81.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 22.630 | 0.075 | 0.000 | 0.00 | 0.14 |
| 81.11 | (6) 1 5/8" Coax | Yes | 0.11 | 0.000 | 2.00 | 0.02 | 0.00 | 22.639 | 0.057 | 0.000 | 0.00 | 0.50 |
| 85.00 | (6) 1 5/8" Coax | Yes | 3.89 | 0.000 | 2.00 | 0.65 | 0.00 | 22.943 | 0.058 | 0.000 | 0.00 | 17.21 |
| 85.87 | (6) 1 5/8" Coax | Yes | 0.87 | 0.000 | 2.00 | 0.15 | 0.00 | 23.010 | 0.059 | 0.000 | 0.00 | 3.85 |
| 90.00 | (6) 1 5/8" Coax | Yes | 4.13 | 0.000 | 2.00 | 0.69 | 0.00 | 23.321 | 0.059 | 0.000 | 0.00 | 18.28 |
| 95.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 23.684 | 0.061 | 0.000 | 0.00 | 22.14 |
| 100.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 24.034 | 0.063 | 0.000 | 0.00 | 22.14 |
| 105.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 24.371 | 0.065 | 0.000 | 0.00 | 22.14 |
| | | | | | | | | | | Totals: | 0.00 | 501.74 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

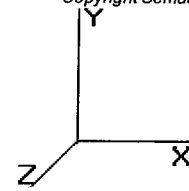
Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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Page: 14



Load Case: 0.9D + 1.6W 100.00 mph with No Ice (Reduced DL) 26 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 0.90
 Wind Load Factor : 1.60

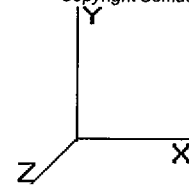
Applied Segment Forces Summary

| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|----------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5.00 | 639.43 | 1,275.10 | 0.00 | 0.00 |
| 10.00 | 625.82 | 1,252.38 | 0.00 | 0.00 |
| 15.00 | 1,238.71 | 1,398.87 | 0.00 | 0.00 |
| 20.00 | 598.60 | 1,206.28 | 0.00 | 0.00 |
| 25.00 | 584.98 | 1,183.56 | 0.00 | 0.00 |
| 30.00 | 571.86 | 1,160.84 | 0.00 | 0.00 |
| 35.00 | 583.37 | 1,138.13 | 0.00 | 0.00 |
| 40.00 | 591.27 | 1,115.41 | 0.00 | 0.00 |
| 40.57 | 66.82 | 125.88 | 0.00 | 0.00 |
| 45.00 | 537.03 | 1,644.32 | 0.00 | 0.00 |
| 45.73 | 87.75 | 267.79 | 0.00 | 0.00 |
| 50.00 | 519.88 | 821.29 | 0.00 | 0.00 |
| 55.00 | 683.27 | 993.12 | 0.00 | 0.24 |
| 60.00 | 609.29 | 923.48 | 0.00 | 0.00 |
| 61.00 | 340.97 | 290.36 | 0.00 | 36.81 |
| 65.00 | 483.76 | 720.57 | 0.00 | 0.00 |
| 70.00 | 602.02 | 883.19 | 0.00 | 0.00 |
| 75.00 | 596.31 | 863.71 | 0.00 | 0.00 |
| 80.00 | 589.38 | 844.24 | 0.00 | 0.00 |
| 81.00 | 235.68 | 220.51 | 0.00 | 19.95 |
| 81.11 | 13.10 | 18.78 | 0.00 | 0.00 |
| 85.00 | 458.79 | 1,041.04 | 0.00 | 0.00 |
| 85.87 | 101.54 | 230.23 | 0.00 | 0.00 |
| 90.00 | 480.41 | 590.79 | 0.00 | 0.00 |
| 95.00 | 573.47 | 700.55 | 0.00 | 0.00 |
| 100.0 | 562.72 | 684.32 | 0.00 | 0.00 |
| 105.0 | 1,153.18 | 907.49 | 0.00 | 0.00 |
| 110.0 | 538.76 | 629.73 | 0.00 | 0.00 |
| 115.0 | 3,865.22 | 3,214.50 | 0.00 | 0.00 |
| 120.0 | 511.84 | 553.00 | 0.00 | 0.00 |
| 122.2 | 221.93 | 240.34 | 0.00 | 0.00 |
| 125.0 | 278.06 | 427.66 | 0.00 | 0.00 |
| 126.4 | 138.37 | 212.79 | 0.00 | 0.00 |
| 130.0 | 2,676.26 | 2,588.33 | 0.00 | 0.00 |
| 135.0 | 474.01 | 333.03 | 0.00 | 0.00 |
| 140.0 | 457.80 | 323.29 | 0.00 | 0.00 |
| 142.0 | 3,536.48 | 2,623.37 | 0.00 | 0.00 |
| 145.0 | 262.07 | 153.76 | 0.00 | 0.00 |
| 146.0 | 85.82 | 50.48 | 0.00 | 0.00 |
| 150.0 | 3,839.89 | 2,998.73 | 696.51 | 351.40 |
| 155.0 | 956.19 | 903.57 | 0.00 | 4,846.71 |
| Totals: | 31,972.11 | 37,754.81 | 696.51 | 5,255.11 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



| | | |
|-------------------------------|-------------------------------------|-------------------------------|
| Load Case: 0.9D + 1.6W | 100.00 mph with No Ice (Reduced DL) | 26 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 0.90 | | |
| Wind Load Factor : 1.60 | | |

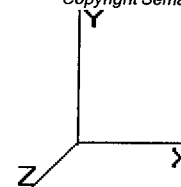
Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -37.69 | -32.04 | -0.68 | -3,315.57 | -0.02 | 3,315.57 | 4,084.54 | 2,042.27 | 8,349.33 | 4,123.42 | 0.00 | 0.00 | 0.814 |
| 5.00 | -36.30 | -31.54 | -0.68 | -3,155.36 | -0.02 | 3,155.36 | 3,997.75 | 1,998.88 | 7,996.78 | 3,949.31 | 0.11 | -0.21 | 0.808 |
| 10.00 | -34.94 | -31.03 | -0.68 | -2,997.68 | -0.02 | 2,997.68 | 3,910.97 | 1,955.48 | 7,651.83 | 3,778.95 | 0.45 | -0.42 | 0.802 |
| 15.00 | -33.44 | -29.91 | -0.68 | -2,842.52 | -0.02 | 2,842.52 | 3,824.18 | 1,912.09 | 7,314.48 | 3,612.35 | 1.01 | -0.64 | 0.796 |
| 20.00 | -32.13 | -29.42 | -0.68 | -2,692.97 | -0.02 | 2,692.97 | 3,737.39 | 1,868.70 | 6,984.75 | 3,449.50 | 1.79 | -0.86 | 0.790 |
| 25.00 | -30.84 | -28.93 | -0.68 | -2,545.88 | -0.02 | 2,545.88 | 3,650.61 | 1,825.30 | 6,662.61 | 3,290.41 | 2.81 | -1.08 | 0.782 |
| 30.00 | -29.58 | -28.46 | -0.68 | -2,401.21 | -0.02 | 2,401.21 | 3,563.82 | 1,781.91 | 6,348.08 | 3,135.08 | 4.07 | -1.31 | 0.774 |
| 35.00 | -28.35 | -27.96 | -0.68 | -2,258.94 | -0.02 | 2,258.94 | 3,477.03 | 1,738.52 | 6,041.16 | 2,983.50 | 5.56 | -1.53 | 0.766 |
| 40.00 | -27.19 | -27.40 | -0.68 | -2,119.15 | -0.02 | 2,119.15 | 3,390.25 | 1,695.12 | 5,741.84 | 2,835.68 | 7.29 | -1.76 | 0.756 |
| 40.57 | -27.01 | -27.38 | -0.68 | -2,103.51 | -0.02 | 2,103.51 | 3,380.34 | 1,690.17 | 5,708.16 | 2,819.04 | 7.50 | -1.79 | 0.754 |
| 45.00 | -25.32 | -26.84 | -0.68 | -1,982.24 | -0.02 | 1,982.24 | 3,303.46 | 1,651.73 | 5,450.13 | 2,691.61 | 9.26 | -2.00 | 0.744 |
| 45.73 | -25.00 | -26.80 | -0.68 | -1,962.65 | -0.02 | 1,962.65 | 2,878.07 | 1,439.04 | 4,834.53 | 2,387.59 | 9.57 | -2.03 | 0.831 |
| 50.00 | -24.10 | -26.35 | -0.68 | -1,848.22 | -0.03 | 1,848.22 | 2,814.54 | 1,407.27 | 4,622.50 | 2,282.88 | 11.48 | -2.24 | 0.819 |
| 55.00 | -23.01 | -25.73 | -0.68 | -1,716.49 | -0.03 | 1,716.49 | 2,740.15 | 1,370.08 | 4,380.28 | 2,163.25 | 13.96 | -2.50 | 0.802 |
| 60.00 | -22.05 | -25.14 | -0.68 | -1,587.86 | -0.03 | 1,587.86 | 2,665.77 | 1,332.88 | 4,144.57 | 2,046.85 | 16.72 | -2.76 | 0.784 |
| 61.00 | -21.72 | -24.83 | -0.68 | -1,562.69 | -0.03 | 1,562.69 | 2,650.89 | 1,325.44 | 4,098.21 | 2,023.95 | 17.30 | -2.81 | 0.781 |
| 65.00 | -20.92 | -24.40 | -0.68 | -1,463.36 | -0.03 | 1,463.36 | 2,591.38 | 1,295.69 | 3,915.38 | 1,933.66 | 19.75 | -3.02 | 0.765 |
| 70.00 | -19.97 | -23.84 | -0.68 | -1,341.37 | -0.03 | 1,341.37 | 2,516.99 | 1,258.49 | 3,692.71 | 1,823.69 | 23.05 | -3.29 | 0.744 |
| 75.00 | -19.03 | -23.28 | -0.68 | -1,222.17 | -0.03 | 1,222.17 | 2,442.60 | 1,221.30 | 3,476.56 | 1,716.94 | 26.63 | -3.55 | 0.720 |
| 80.00 | -18.17 | -22.69 | -0.68 | -1,105.76 | -0.03 | 1,105.76 | 2,368.21 | 1,184.11 | 3,266.93 | 1,613.41 | 30.49 | -3.81 | 0.693 |
| 81.00 | -17.95 | -22.45 | -0.68 | -1,083.06 | -0.03 | 1,083.06 | 2,353.33 | 1,176.67 | 3,225.79 | 1,593.10 | 31.29 | -3.86 | 0.688 |
| 81.11 | -17.89 | -22.47 | -0.68 | -1,080.52 | -0.04 | 1,080.52 | 2,351.65 | 1,175.83 | 3,221.15 | 1,590.80 | 31.38 | -3.87 | 0.687 |
| 85.00 | -16.84 | -21.97 | -0.68 | -993.20 | -0.04 | 993.20 | 2,293.82 | 1,146.91 | 3,063.82 | 1,513.11 | 34.61 | -4.07 | 0.664 |
| 85.87 | -16.57 | -21.89 | -0.68 | -974.07 | -0.04 | 974.07 | 1,941.20 | 970.60 | 2,638.48 | 1,303.04 | 35.36 | -4.11 | 0.757 |
| 90.00 | -15.92 | -21.44 | -0.68 | -883.67 | -0.04 | 883.67 | 1,890.00 | 945.00 | 2,500.51 | 1,234.91 | 39.01 | -4.33 | 0.725 |
| 95.00 | -15.17 | -20.88 | -0.68 | -776.48 | -0.04 | 776.48 | 1,828.01 | 914.00 | 2,338.40 | 1,154.85 | 43.68 | -4.60 | 0.681 |
| 100.00 | -14.44 | -20.33 | -0.68 | -672.06 | -0.05 | 672.06 | 1,766.02 | 883.01 | 2,181.73 | 1,077.48 | 48.64 | -4.87 | 0.632 |
| 105.00 | -13.56 | -19.16 | -0.68 | -570.40 | -0.05 | 570.40 | 1,704.03 | 852.01 | 2,030.49 | 1,002.78 | 53.88 | -5.13 | 0.577 |
| 110.00 | -12.90 | -18.62 | -0.69 | -474.58 | -0.05 | 474.58 | 1,642.04 | 821.02 | 1,884.69 | 930.78 | 59.37 | -5.36 | 0.518 |
| 115.00 | -10.02 | -14.50 | -0.69 | -381.48 | -0.06 | 381.48 | 1,580.05 | 790.02 | 1,744.31 | 861.45 | 65.10 | -5.58 | 0.450 |
| 120.00 | -9.49 | -13.96 | -0.69 | -308.97 | -0.06 | 308.97 | 1,518.06 | 759.03 | 1,609.37 | 794.81 | 71.04 | -5.78 | 0.395 |
| 122.22 | -9.25 | -13.73 | -0.69 | -277.97 | -0.06 | 277.97 | 1,490.53 | 745.27 | 1,551.20 | 766.08 | 73.75 | -5.86 | 0.369 |
| 125.00 | -8.84 | -13.42 | -0.69 | -239.80 | -0.06 | 239.80 | 1,456.07 | 728.03 | 1,479.86 | 730.85 | 77.19 | -5.96 | 0.335 |
| 126.40 | -8.62 | -13.27 | -0.69 | -220.97 | -0.06 | 220.97 | 828.07 | 414.03 | 852.87 | 421.20 | 78.94 | -6.01 | 0.536 |
| 130.00 | -6.30 | -10.36 | -0.69 | -173.22 | -0.07 | 173.22 | 816.88 | 408.44 | 815.60 | 402.79 | 83.51 | -6.12 | 0.438 |
| 135.00 | -5.99 | -9.87 | -0.69 | -121.45 | -0.07 | 121.45 | 799.87 | 399.94 | 763.57 | 377.10 | 90.01 | -6.31 | 0.330 |
| 140.00 | -5.71 | -9.38 | -0.69 | -72.11 | -0.07 | 72.11 | 779.72 | 389.86 | 710.17 | 350.73 | 96.69 | -6.45 | 0.214 |
| 142.00 | -3.50 | -5.58 | -0.69 | -53.35 | -0.07 | 53.35 | 764.84 | 382.42 | 683.21 | 337.41 | 99.40 | -6.50 | 0.163 |
| 145.00 | -3.37 | -5.30 | -0.69 | -36.61 | -0.08 | 36.61 | 742.52 | 371.26 | 643.76 | 317.93 | 103.49 | -6.55 | 0.120 |
| 146.00 | -3.33 | -5.21 | -0.69 | -31.31 | -0.08 | 31.31 | 735.08 | 367.54 | 630.87 | 311.56 | 104.86 | -6.56 | 0.105 |
| 146.00 | -3.33 | -5.21 | -0.69 | -31.31 | -0.08 | 31.31 | 735.08 | 367.54 | 630.87 | 311.56 | 104.86 | -6.56 | 0.087 |
| 150.00 | -0.79 | -1.05 | 0.00 | -10.12 | 0.00 | 10.12 | 1,065.01 | 532.51 | 753.93 | 372.34 | 110.36 | -6.59 | 0.028 |
| 155.00 | 0.00 | -0.96 | 0.00 | -4.85 | 0.00 | 4.85 | 1,065.01 | 532.51 | 753.93 | 372.34 | 117.25 | -6.60 | 0.013 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 1.25 in Radial Ice 26 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00

Dead Load Factor : 1.20 Wind Importance Factor : 1.00

Wind Load Factor : 1.00

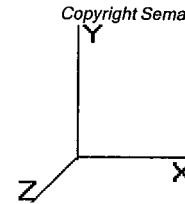
Shaft Segment Forces (Factored)

| Seg Top Elev (ft) | Description | Kzt | Kz | az (psf) | azGh (psf) | C (mph-ft) | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) | | |
|-------------------|-----------------|------|------|----------|------------|------------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|----------|----------|
| 0.00 | | 1.00 | 0.70 | 4.256 | 4.682 | 0.000 | 1.200 | 0.00 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 | | |
| 5.00 | | 1.00 | 0.70 | 4.256 | 4.682 | 0.000 | 1.200 | 2.07 | 5.00 | 23.066 | 27.68 | 129.6 | 683.6 | 2,094.0 | | |
| 10.00 | | 1.00 | 0.70 | 4.256 | 4.682 | 0.000 | 1.200 | 2.21 | 5.00 | 22.736 | 27.28 | 127.7 | 719.6 | 2,099.7 | | |
| 15.00 | Appertunance(s) | 1.00 | 0.70 | 4.256 | 4.682 | 0.000 | 1.200 | 2.31 | 5.00 | 22.358 | 26.83 | 125.6 | 734.9 | 2,084.7 | | |
| 20.00 | | 1.00 | 0.70 | 4.256 | 4.682 | 0.000 | 1.200 | 2.37 | 5.00 | 21.960 | 26.35 | 123.4 | 741.1 | 2,060.7 | | |
| 25.00 | | 1.00 | 0.70 | 4.256 | 4.682 | 0.000 | 1.200 | 2.43 | 5.00 | 21.550 | 25.86 | 121.1 | 742.1 | 2,031.3 | | |
| 30.00 | | 1.00 | 0.70 | 4.260 | 4.686 | 0.000 | 1.200 | 2.47 | 5.00 | 21.133 | 25.36 | 118.8 | 739.5 | 1,998.5 | | |
| 35.00 | | 1.00 | 0.73 | 4.451 | 4.897 | 0.000 | 1.200 | 2.51 | 5.00 | 20.711 | 24.85 | 121.7 | 734.5 | 1,963.1 | | |
| 40.00 | | 1.00 | 0.76 | 4.625 | 5.087 | 0.000 | 1.200 | 2.54 | 5.00 | 20.285 | 24.34 | 123.8 | 727.5 | 1,925.8 | | |
| 40.57 | Bot - Section 2 | 1.00 | 0.76 | 4.643 | 5.108 | 0.000 | 1.200 | 2.55 | 0.57 | 2.287 | 2.74 | 14.0 | 82.9 | 217.8 | | |
| 45.00 | | 1.00 | 0.78 | 4.783 | 5.261 | 0.000 | 1.200 | 2.57 | 4.43 | 17.853 | 21.42 | 112.7 | 648.0 | 2,584.6 | | |
| 45.73 | Top - Section 1 | 1.00 | 0.79 | 4.805 | 5.285 | 0.000 | 1.200 | 2.58 | 0.73 | 2.908 | 3.49 | 18.4 | 106.6 | 421.5 | | |
| 50.00 | | 1.00 | 0.81 | 4.929 | 5.422 | 0.000 | 1.200 | 2.60 | 4.27 | 16.837 | 20.20 | 109.5 | 616.5 | 1,464.9 | | |
| 55.00 | Appertunance(s) | 1.00 | 0.83 | 5.065 | 5.572 | 0.000 | 1.200 | 2.63 | 5.00 | 19.315 | 23.18 | 129.1 | 711.3 | 1,680.6 | | |
| 60.00 | | 1.00 | 0.85 | 5.193 | 5.712 | 0.000 | 1.200 | 2.65 | 5.00 | 18.879 | 22.66 | 129.4 | 699.8 | 1,643.1 | | |
| 61.00 | Appertunance(s) | 1.00 | 0.85 | 5.217 | 5.739 | 0.000 | 1.200 | 2.65 | 1.00 | 3.722 | 4.47 | 25.6 | 139.5 | 325.0 | | |
| 65.00 | | 1.00 | 0.87 | 5.313 | 5.844 | 0.000 | 1.200 | 2.67 | 4.00 | 14.718 | 17.66 | 103.2 | 550.0 | 1,281.8 | | |
| 70.00 | | 1.00 | 0.89 | 5.426 | 5.969 | 0.000 | 1.200 | 2.69 | 5.00 | 18.005 | 21.61 | 129.0 | 674.5 | 1,566.0 | | |
| 75.00 | | 1.00 | 0.91 | 5.534 | 6.088 | 0.000 | 1.200 | 2.71 | 5.00 | 17.567 | 21.08 | 128.3 | 661.0 | 1,526.5 | | |
| 80.00 | | 1.00 | 0.92 | 5.637 | 6.201 | 0.000 | 1.200 | 2.73 | 5.00 | 17.127 | 20.55 | 127.4 | 646.9 | 1,486.4 | | |
| 81.00 | Appertunance(s) | 1.00 | 0.93 | 5.657 | 6.223 | 0.000 | 1.200 | 2.73 | 1.00 | 3.371 | 4.05 | 25.2 | 128.8 | 293.6 | | |
| 81.11 | Bot - Section 3 | 1.00 | 0.93 | 5.660 | 6.226 | 0.000 | 1.200 | 2.73 | 0.11 | 0.380 | 0.46 | 2.8 | 14.6 | 33.1 | | |
| 85.00 | | 1.00 | 0.94 | 5.736 | 6.309 | 0.000 | 1.200 | 2.74 | 3.89 | 13.142 | 15.77 | 99.5 | 500.3 | 1,666.6 | | |
| 85.87 | Top - Section 2 | 1.00 | 0.94 | 5.753 | 6.328 | 0.000 | 1.200 | 2.75 | 0.87 | 2.907 | 3.49 | 22.1 | 111.6 | 368.9 | | |
| 90.00 | | 1.00 | 0.95 | 5.830 | 6.413 | 0.000 | 1.200 | 2.76 | 4.13 | 13.607 | 16.33 | 104.7 | 519.2 | 1,071.3 | | |
| 95.00 | | 1.00 | 0.97 | 5.921 | 6.513 | 0.000 | 1.200 | 2.77 | 5.00 | 16.073 | 19.29 | 125.6 | 613.3 | 1,262.1 | | |
| 100.0 | | 1.00 | 0.98 | 6.008 | 6.609 | 0.000 | 1.200 | 2.79 | 5.00 | 15.631 | 18.76 | 124.0 | 597.7 | 1,224.8 | | |
| 105.0 | Appertunance(s) | 1.00 | 1.00 | 6.093 | 6.702 | 0.000 | 1.200 | 2.80 | 5.00 | 15.188 | 18.23 | 122.1 | 581.7 | 1,187.2 | | |
| 110.0 | | 1.00 | 1.01 | 6.174 | 6.792 | 0.000 | 1.200 | 2.82 | 5.00 | 14.745 | 17.69 | 120.2 | 565.4 | 1,149.3 | | |
| 115.0 | Appertunance(s) | 1.00 | 1.02 | 6.253 | 6.879 | 0.000 | 1.200 | 2.83 | 5.00 | 14.301 | 17.16 | 118.0 | 548.8 | 1,111.0 | | |
| 120.0 | | 1.00 | 1.04 | 6.330 | 6.963 | 0.000 | 1.200 | 2.84 | 5.00 | 13.857 | 16.63 | 115.8 | 531.9 | 1,072.5 | | |
| 122.2 | Bot - Section 4 | 1.00 | 1.04 | 6.363 | 6.999 | 0.000 | 1.200 | 2.85 | 2.22 | 6.009 | 7.21 | 50.5 | 232.8 | 465.9 | | |
| 125.0 | | 1.00 | 1.05 | 6.404 | 7.044 | 0.000 | 1.200 | 2.85 | 2.78 | 7.491 | 8.99 | 63.3 | 290.1 | 750.9 | | |
| 126.4 | Top - Section 3 | 1.00 | 1.05 | 6.424 | 7.067 | 0.000 | 1.200 | 2.85 | 1.40 | 3.728 | 4.47 | 31.6 | 145.0 | 373.6 | | |
| 130.0 | Appertunance(s) | 1.00 | 1.06 | 6.476 | 7.124 | 0.000 | 1.200 | 2.86 | 3.60 | 9.399 | 11.28 | 80.3 | 362.9 | 580.7 | | |
| 135.0 | | 1.00 | 1.07 | 6.546 | 7.201 | 0.000 | 1.200 | 2.87 | 5.00 | 12.684 | 15.22 | 109.6 | 486.9 | 778.5 | | |
| 140.0 | | 1.00 | 1.08 | 6.615 | 7.276 | 0.000 | 1.200 | 2.88 | 5.00 | 12.238 | 14.69 | 106.9 | 469.1 | 747.7 | | |
| 142.0 | Appertunance(s) | 1.00 | 1.09 | 6.642 | 7.306 | 0.000 | 1.200 | 2.89 | 2.00 | 4.769 | 5.72 | 41.8 | 184.8 | 292.6 | | |
| 145.0 | | 1.00 | 1.09 | 6.681 | 7.350 | 0.000 | 1.200 | 2.89 | 3.00 | 7.021 | 8.43 | 61.9 | 270.7 | 428.5 | | |
| 146.0 | Top - Section 4 | 1.00 | 1.10 | 6.695 | 7.364 | 0.000 | 1.200 | 2.90 | 1.00 | 2.304 | 2.77 | 20.4 | 89.5 | 141.1 | | |
| 150.0 | Appertunance(s) | 1.00 | 1.11 | 6.746 | 7.421 | 0.000 | 1.200 | 2.90 | 4.00 | 8.151 | 9.78 | 72.6 | 313.9 | 774.1 | | |
| 155.0 | Appertunance(s) | 1.00 | 1.12 | 6.810 | 7.491 | 0.000 | 1.200 | 2.91 | 5.00 | 10.196 | 12.24 | 91.7 | 393.8 | 969.0 | | |
| Totals: | | | | | | | | 155.00 | | | | | | 3,729.1 | 19,312.6 | 47,199.0 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)

| | | |
|--|-----------------------------------|-------------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 50.00 mph with 1.25 in Radial Ice | 26 Iterations |
| Gust Response Factor : 1.10 | Ice Dead Load Factor : 1.00 | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.20 | | Ice Importance Factor : 1.00 |
| Wind Load Factor : 1.00 | | |

Discrete Appurtenance Segment Forces (Factored)

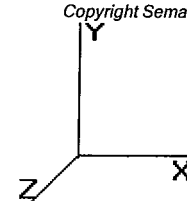
| Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | CaAa Factor | Ka | Total CaAa (sf) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) | Dead Load (lb) |
|-----------|----------------------|-----|----------|------------|-------------|------|-----------------|----------------|---------------|--------------|---------------|---------------|----------------|
| 15.00 | Dish Standard | 1 | 4.256 | 4.682 | 1.00 | 1.00 | 24.77 | 0.000 | 0.000 | 115.99 | 0.00 | 0.00 | 553.59 |
| 55.00 | 2" x 4" GPS | 1 | 5.069 | 5.576 | 1.00 | 1.00 | 0.33 | 0.000 | 0.167 | 1.82 | 0.00 | 0.30 | 21.31 |
| 55.00 | Stand Off | 1 | 5.065 | 5.572 | 1.00 | 1.00 | 4.10 | 0.000 | 0.000 | 22.87 | 0.00 | 0.00 | 87.62 |
| 61.00 | GPS | 2 | 5.229 | 5.752 | 1.00 | 1.00 | 2.41 | 0.000 | 0.500 | 13.86 | 0.00 | 6.93 | 163.85 |
| 61.00 | Stand Off | 2 | 5.217 | 5.739 | 1.00 | 1.00 | 8.25 | 0.000 | 0.000 | 47.36 | 0.00 | 0.00 | 176.34 |
| 81.00 | GPS | 1 | 5.667 | 6.234 | 1.00 | 1.00 | 1.23 | 0.000 | 0.500 | 7.66 | 0.00 | 3.83 | 84.96 |
| 81.00 | Stand Off | 1 | 5.657 | 6.223 | 1.00 | 1.00 | 4.19 | 0.000 | 0.000 | 26.06 | 0.00 | 0.00 | 89.70 |
| 105.0 | RFS APXV18- | 3 | 6.093 | 6.702 | 0.60 | 0.80 | 12.73 | 0.000 | 0.000 | 85.30 | 0.00 | 0.00 | 741.10 |
| 105.0 | Flush Mounts | 1 | 6.093 | 6.702 | 1.00 | 1.00 | 13.42 | 0.000 | 0.000 | 89.94 | 0.00 | 0.00 | 701.35 |
| 115.0 | 72" x 12" Panel | 3 | 6.253 | 6.879 | 0.60 | 0.80 | 18.58 | 0.000 | 0.000 | 127.82 | 0.00 | 0.00 | 1,195.89 |
| 115.0 | 48" x 12" Panel | 9 | 6.253 | 6.879 | 0.60 | 0.80 | 36.37 | 0.000 | 0.000 | 250.16 | 0.00 | 0.00 | 2,541.27 |
| 115.0 | Platform w/ Handrail | 1 | 6.253 | 6.879 | 1.00 | 1.00 | 90.97 | 0.000 | 0.000 | 625.76 | 0.00 | 0.00 | 6,498.64 |
| 130.0 | Decibel DB980H65T2E- | 5 | 6.476 | 7.124 | 0.60 | 0.80 | 16.78 | 0.000 | 0.000 | 119.50 | 0.00 | 0.00 | 960.81 |
| 130.0 | Decibel DB980H90A- | 4 | 6.476 | 7.124 | 0.60 | 0.80 | 13.42 | 0.000 | 0.000 | 95.60 | 0.00 | 0.00 | 768.65 |
| 130.0 | Platform w/ Handrail | 1 | 6.476 | 7.124 | 1.00 | 1.00 | 91.72 | 0.000 | 0.000 | 653.38 | 0.00 | 0.00 | 6,551.05 |
| 142.0 | Andrew DB948F85E-M | 6 | 6.642 | 7.306 | 0.56 | 0.75 | 16.13 | 0.000 | 0.000 | 117.84 | 0.00 | 0.00 | 1,074.16 |
| 142.0 | EMS FV65-15-XL-2 | 3 | 6.642 | 7.306 | 0.59 | 0.75 | 12.04 | 0.000 | 0.000 | 87.97 | 0.00 | 0.00 | 872.71 |
| 142.0 | Swedcom ALP 9212-N | 6 | 6.642 | 7.306 | 0.75 | 0.75 | 65.93 | 0.000 | 0.000 | 481.66 | 0.00 | 0.00 | 1,486.90 |
| 142.0 | Platform w/ Handrail | 1 | 6.642 | 7.306 | 1.00 | 1.00 | 92.26 | 0.000 | 0.000 | 674.04 | 0.00 | 0.00 | 6,589.19 |
| 150.0 | 7' Omni | 1 | 6.791 | 7.470 | 1.00 | 1.00 | 4.79 | 0.000 | 3.500 | 35.78 | 0.00 | 125.22 | 219.80 |
| 150.0 | Diplexer / Coupler | 6 | 6.746 | 7.421 | 0.50 | 1.00 | 3.78 | 0.000 | 0.000 | 28.07 | 0.00 | 0.00 | 315.51 |
| 150.0 | Powerwave 7770.00 | 3 | 6.746 | 7.421 | 0.59 | 0.80 | 13.18 | 0.000 | 0.000 | 97.83 | 0.00 | 0.00 | 910.43 |
| 150.0 | Platform w/ Handrail | 1 | 6.746 | 7.421 | 1.00 | 1.00 | 92.60 | 0.000 | 0.000 | 687.20 | 0.00 | 0.00 | 6,613.04 |
| 150.0 | CSS DUO4-8670 | 6 | 6.746 | 7.421 | 0.65 | 0.80 | 29.68 | 0.000 | 0.000 | 220.24 | 0.00 | 0.00 | 2,110.15 |
| 150.0 | ADC DD800 | 6 | 6.746 | 7.421 | 0.50 | 1.00 | 5.60 | 3.942 | 0.000 | 41.56 | 163.82 | 0.00 | 539.19 |
| 155.0 | Canister | 1 | 6.912 | 7.603 | 1.00 | 1.00 | 18.49 | 0.000 | 8.300 | 140.62 | 0.00 | 1,167.16 | 1,337.39 |
| | | | | | | | | | | 4,895.89 | | | 43,204.58 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)



| | | |
|--|-----------------------------------|-------------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 50.00 mph with 1.25 in Radial Ice | 26 Iterations |
| Gust Response Factor : 1.10 | Ice Dead Load Factor : 1.00 | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.20 | | Ice Importance Factor : 1.00 |
| Wind Load Factor : 1.00 | | |

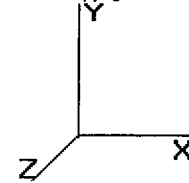
Linear Appurtenance Segment Forces (Factored)

| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | qz (psf) | Ra | Cf Adjust Factor | FX (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|-------|--------------------|-------------|-------------|----------|-------|------------------|---------|----------------|
| 5.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.56 | 0.00 | 4.256 | 0.076 | 0.000 | 0.00 | 161.15 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 1.99 | 0.00 | 4.256 | 0.076 | 0.000 | 0.00 | 32.31 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 1.99 | 0.00 | 4.256 | 0.076 | 0.000 | 0.00 | 32.31 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 1.99 | 0.00 | 4.256 | 0.076 | 0.000 | 0.00 | 32.31 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.076 | 0.000 | 0.00 | 32.31 |
| 5.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.076 | 0.000 | 0.00 | 32.31 |
| 10.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.68 | 0.00 | 4.256 | 0.078 | 0.000 | 0.00 | 171.90 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.11 | 0.00 | 4.256 | 0.078 | 0.000 | 0.00 | 36.57 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.11 | 0.00 | 4.256 | 0.078 | 0.000 | 0.00 | 36.57 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.11 | 0.00 | 4.256 | 0.078 | 0.000 | 0.00 | 36.57 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.078 | 0.000 | 0.00 | 36.57 |
| 10.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.078 | 0.000 | 0.00 | 36.57 |
| 15.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.76 | 0.00 | 4.256 | 0.079 | 0.000 | 0.00 | 178.68 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.19 | 0.00 | 4.256 | 0.079 | 0.000 | 0.00 | 39.33 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.19 | 0.00 | 4.256 | 0.079 | 0.000 | 0.00 | 39.33 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.19 | 0.00 | 4.256 | 0.079 | 0.000 | 0.00 | 39.33 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.079 | 0.000 | 0.00 | 39.33 |
| 15.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.079 | 0.000 | 0.00 | 39.33 |
| 20.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.81 | 0.00 | 4.256 | 0.081 | 0.000 | 0.00 | 183.73 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.24 | 0.00 | 4.256 | 0.081 | 0.000 | 0.00 | 41.43 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.24 | 0.00 | 4.256 | 0.081 | 0.000 | 0.00 | 41.43 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.24 | 0.00 | 4.256 | 0.081 | 0.000 | 0.00 | 41.43 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.081 | 0.000 | 0.00 | 41.43 |
| 25.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.86 | 0.00 | 4.256 | 0.083 | 0.000 | 0.00 | 187.79 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.29 | 0.00 | 4.256 | 0.083 | 0.000 | 0.00 | 43.14 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.29 | 0.00 | 4.256 | 0.083 | 0.000 | 0.00 | 43.14 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.29 | 0.00 | 4.256 | 0.083 | 0.000 | 0.00 | 43.14 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.256 | 0.083 | 0.000 | 0.00 | 43.14 |
| 30.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.90 | 0.00 | 4.260 | 0.085 | 0.000 | 0.00 | 191.19 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.33 | 0.00 | 4.260 | 0.085 | 0.000 | 0.00 | 44.59 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.33 | 0.00 | 4.260 | 0.085 | 0.000 | 0.00 | 44.59 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.33 | 0.00 | 4.260 | 0.085 | 0.000 | 0.00 | 44.59 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.260 | 0.085 | 0.000 | 0.00 | 44.59 |
| 35.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.93 | 0.00 | 4.451 | 0.087 | 0.000 | 0.00 | 194.14 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.36 | 0.00 | 4.451 | 0.087 | 0.000 | 0.00 | 45.86 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.36 | 0.00 | 4.451 | 0.087 | 0.000 | 0.00 | 45.86 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.36 | 0.00 | 4.451 | 0.087 | 0.000 | 0.00 | 45.86 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.451 | 0.087 | 0.000 | 0.00 | 45.86 |
| 40.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 2.96 | 0.00 | 4.625 | 0.089 | 0.000 | 0.00 | 196.75 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.39 | 0.00 | 4.625 | 0.089 | 0.000 | 0.00 | 46.99 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.39 | 0.00 | 4.625 | 0.089 | 0.000 | 0.00 | 46.99 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.39 | 0.00 | 4.625 | 0.089 | 0.000 | 0.00 | 46.99 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 4.625 | 0.089 | 0.000 | 0.00 | 46.99 |
| 40.57 | (6) 1 5/8" Coax | Yes | 0.57 | 0.000 | 2.00 | 0.34 | 0.00 | 4.643 | 0.091 | 0.000 | 0.00 | 22.49 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.27 | 0.00 | 4.643 | 0.091 | 0.000 | 0.00 | 5.38 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.27 | 0.00 | 4.643 | 0.091 | 0.000 | 0.00 | 5.38 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.00 | 0.00 | 0.00 | 4.643 | 0.091 | 0.000 | 0.00 | 5.38 |
| 45.00 | (6) 1 5/8" Coax | Yes | 4.43 | 0.000 | 2.00 | 2.64 | 0.00 | 4.783 | 0.092 | 0.000 | 0.00 | 176.37 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 2.14 | 0.00 | 4.783 | 0.092 | 0.000 | 0.00 | 42.53 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 2.14 | 0.00 | 4.783 | 0.092 | 0.000 | 0.00 | 42.53 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



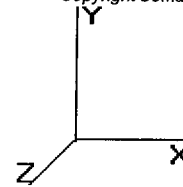
| | | |
|--|-----------------------------------|-------------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 50.00 mph with 1.25 in Radial Ice | 26 Iterations |
| Gust Response Factor : 1.10 | Ice Dead Load Factor : 1.00 | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.20 | | Ice Importance Factor : 1.00 |
| Wind Load Factor : 1.00 | | |

| | | | | | | | | | | | | |
|----------------|-----------------|-----|------|-------|------|------|------|-------|-------|-------|------|----------|
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 2.14 | 0.00 | 4.783 | 0.092 | 0.000 | 0.00 | 42.53 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.00 | 0.00 | 0.00 | 4.783 | 0.092 | 0.000 | 0.00 | 42.53 |
| 45.73 | (6) 1 5/8" Coax | Yes | 0.73 | 0.000 | 2.00 | 0.44 | 0.00 | 4.805 | 0.093 | 0.000 | 0.00 | 29.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.35 | 0.00 | 4.805 | 0.093 | 0.000 | 0.00 | 7.03 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.35 | 0.00 | 4.805 | 0.093 | 0.000 | 0.00 | 7.03 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.35 | 0.00 | 4.805 | 0.093 | 0.000 | 0.00 | 7.03 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.00 | 0.00 | 0.00 | 4.805 | 0.093 | 0.000 | 0.00 | 7.03 |
| 50.00 | (6) 1 5/8" Coax | Yes | 4.27 | 0.000 | 2.00 | 2.57 | 0.00 | 4.929 | 0.092 | 0.000 | 0.00 | 171.85 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 2.08 | 0.00 | 4.929 | 0.092 | 0.000 | 0.00 | 41.79 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 2.08 | 0.00 | 4.929 | 0.092 | 0.000 | 0.00 | 41.79 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 2.08 | 0.00 | 4.929 | 0.092 | 0.000 | 0.00 | 41.79 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.00 | 0.00 | 0.00 | 4.929 | 0.092 | 0.000 | 0.00 | 41.79 |
| 55.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.03 | 0.00 | 5.065 | 0.095 | 0.000 | 0.00 | 203.17 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.46 | 0.00 | 5.065 | 0.095 | 0.000 | 0.00 | 49.80 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.46 | 0.00 | 5.065 | 0.095 | 0.000 | 0.00 | 49.80 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.46 | 0.00 | 5.065 | 0.095 | 0.000 | 0.00 | 49.80 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 5.065 | 0.095 | 0.000 | 0.00 | 49.80 |
| 60.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.05 | 0.00 | 5.193 | 0.097 | 0.000 | 0.00 | 204.98 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.47 | 0.00 | 5.193 | 0.097 | 0.000 | 0.00 | 50.60 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.47 | 0.00 | 5.193 | 0.097 | 0.000 | 0.00 | 50.60 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.47 | 0.00 | 5.193 | 0.097 | 0.000 | 0.00 | 50.60 |
| 61.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.61 | 0.00 | 5.217 | 0.099 | 0.000 | 0.00 | 41.06 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.50 | 0.00 | 5.217 | 0.099 | 0.000 | 0.00 | 10.15 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.50 | 0.00 | 5.217 | 0.099 | 0.000 | 0.00 | 10.15 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.50 | 0.00 | 5.217 | 0.099 | 0.000 | 0.00 | 10.15 |
| 65.00 | (6) 1 5/8" Coax | Yes | 4.00 | 0.000 | 2.00 | 2.45 | 0.00 | 5.313 | 0.068 | 0.000 | 0.00 | 165.32 |
| 65.00 | (1) 1/2" Coax | Yes | 4.00 | 0.000 | 0.63 | 1.99 | 0.00 | 5.313 | 0.068 | 0.000 | 0.00 | 41.07 |
| 70.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.08 | 0.00 | 5.426 | 0.070 | 0.000 | 0.00 | 208.23 |
| 70.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.51 | 0.00 | 5.426 | 0.070 | 0.000 | 0.00 | 52.04 |
| 75.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.09 | 0.00 | 5.534 | 0.072 | 0.000 | 0.00 | 209.71 |
| 75.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.52 | 0.00 | 5.534 | 0.072 | 0.000 | 0.00 | 52.71 |
| 80.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.11 | 0.00 | 5.637 | 0.074 | 0.000 | 0.00 | 211.10 |
| 80.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 2.54 | 0.00 | 5.637 | 0.074 | 0.000 | 0.00 | 53.33 |
| 81.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.62 | 0.00 | 5.657 | 0.075 | 0.000 | 0.00 | 42.27 |
| 81.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.51 | 0.00 | 5.657 | 0.075 | 0.000 | 0.00 | 10.69 |
| 81.11 | (6) 1 5/8" Coax | Yes | 0.11 | 0.000 | 2.00 | 0.07 | 0.00 | 5.660 | 0.057 | 0.000 | 0.00 | 4.78 |
| 85.00 | (6) 1 5/8" Coax | Yes | 3.89 | 0.000 | 2.00 | 2.43 | 0.00 | 5.736 | 0.058 | 0.000 | 0.00 | 165.13 |
| 85.87 | (6) 1 5/8" Coax | Yes | 0.87 | 0.000 | 2.00 | 0.54 | 0.00 | 5.753 | 0.059 | 0.000 | 0.00 | 37.03 |
| 90.00 | (6) 1 5/8" Coax | Yes | 4.13 | 0.000 | 2.00 | 2.59 | 0.00 | 5.830 | 0.059 | 0.000 | 0.00 | 176.48 |
| 95.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.15 | 0.00 | 5.921 | 0.061 | 0.000 | 0.00 | 214.88 |
| 100.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.16 | 0.00 | 6.008 | 0.063 | 0.000 | 0.00 | 216.03 |
| 105.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 3.17 | 0.00 | 6.093 | 0.065 | 0.000 | 0.00 | 217.13 |
| Totals: | | | | | | | | | | | 0.00 | 6,589.72 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)

Load Case: 1.2D + 1.0Di + 1.0Wi 50.00 mph with 1.25 in Radial Ice 26 Iterations

Gust Response Factor : 1.10 Ice Dead Load Factor : 1.00 Wind Importance Factor : 1.00

Dead Load Factor : 1.20 Wind Load Factor : 1.00 Ice Importance Factor : 1.00

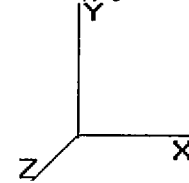
Applied Segment Forces Summary

| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|----------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5.00 | 129.58 | 2,672.44 | 0.00 | 0.00 |
| 10.00 | 127.73 | 2,710.17 | 0.00 | 0.00 |
| 15.00 | 241.59 | 3,269.41 | 0.00 | 0.00 |
| 20.00 | 123.37 | 2,665.85 | 0.00 | 0.00 |
| 25.00 | 121.07 | 2,647.40 | 0.00 | 0.00 |
| 30.00 | 118.83 | 2,623.76 | 0.00 | 0.00 |
| 35.00 | 121.70 | 2,596.42 | 0.00 | 0.00 |
| 40.00 | 123.83 | 2,566.27 | 0.00 | 0.00 |
| 40.57 | 14.02 | 290.99 | 0.00 | 0.00 |
| 45.00 | 112.71 | 3,157.58 | 0.00 | 0.00 |
| 45.73 | 18.45 | 516.04 | 0.00 | 0.00 |
| 50.00 | 109.54 | 2,022.33 | 0.00 | 0.00 |
| 55.00 | 153.83 | 2,447.63 | 0.00 | 0.30 |
| 60.00 | 129.40 | 2,255.62 | 0.00 | 0.00 |
| 61.00 | 86.86 | 787.88 | 0.00 | 6.93 |
| 65.00 | 103.21 | 1,692.81 | 0.00 | 0.00 |
| 70.00 | 128.97 | 2,081.98 | 0.00 | 0.00 |
| 75.00 | 128.33 | 2,044.62 | 0.00 | 0.00 |
| 80.00 | 127.45 | 2,006.62 | 0.00 | 0.00 |
| 81.00 | 58.90 | 572.37 | 0.00 | 3.83 |
| 81.11 | 2.84 | 43.72 | 0.00 | 0.00 |
| 85.00 | 99.50 | 2,030.50 | 0.00 | 0.00 |
| 85.87 | 22.07 | 450.47 | 0.00 | 0.00 |
| 90.00 | 104.72 | 1,458.99 | 0.00 | 0.00 |
| 95.00 | 125.62 | 1,732.76 | 0.00 | 0.00 |
| 100.0 | 123.97 | 1,696.61 | 0.00 | 0.00 |
| 105.0 | 297.40 | 3,102.53 | 0.00 | 0.00 |
| 110.0 | 120.17 | 1,405.01 | 0.00 | 0.00 |
| 115.0 | 1,121.78 | 11,602.58 | 0.00 | 0.00 |
| 120.0 | 115.78 | 1,269.25 | 0.00 | 0.00 |
| 122.2 | 50.47 | 553.27 | 0.00 | 0.00 |
| 125.0 | 63.32 | 860.29 | 0.00 | 0.00 |
| 126.4 | 31.61 | 428.77 | 0.00 | 0.00 |
| 130.0 | 948.83 | 9,002.69 | 0.00 | 0.00 |
| 135.0 | 109.60 | 930.91 | 0.00 | 0.00 |
| 140.0 | 106.86 | 900.18 | 0.00 | 0.00 |
| 142.0 | 1,403.32 | 10,376.53 | 0.00 | 0.00 |
| 145.0 | 61.92 | 475.71 | 0.00 | 0.00 |
| 146.0 | 20.36 | 156.82 | 0.00 | 0.00 |
| 150.0 | 1,183.25 | 11,545.09 | 163.82 | 125.22 |
| 155.0 | 232.28 | 2,335.95 | 0.00 | 1,167.16 |
| Totals: | 8,625.02 | 103,986.7 | 163.82 | 1,303.44 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



| | | |
|--|-----------------------------------|-------------------------------|
| Load Case: 1.2D + 1.0Di + 1.0Wi | 50.00 mph with 1.25 in Radial Ice | 26 Iterations |
| Gust Response Factor : 1.10 | Ice Dead Load Factor : 1.00 | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.20 | | Ice Importance Factor : 1.00 |
| Wind Load Factor : 1.00 | | |

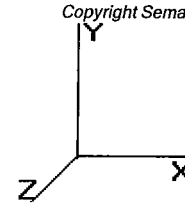
Calculated Forces

| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -103.98 | -8.69 | -0.16 | -1,090.00 | -0.01 | 1,090.00 | 4,084.54 | 2,042.27 | 8,349.33 | 4,123.42 | 0.00 | 0.00 | 0.290 |
| 5.00 | -101.30 | -8.68 | -0.16 | -1,046.56 | -0.01 | 1,046.56 | 3,997.75 | 1,998.88 | 7,996.78 | 3,949.31 | 0.04 | -0.07 | 0.290 |
| 10.00 | -98.58 | -8.67 | -0.16 | -1,003.15 | -0.01 | 1,003.15 | 3,910.97 | 1,955.48 | 7,651.83 | 3,778.95 | 0.15 | -0.14 | 0.291 |
| 15.00 | -95.30 | -8.54 | -0.16 | -959.79 | -0.01 | 959.79 | 3,824.18 | 1,912.09 | 7,314.48 | 3,612.35 | 0.33 | -0.21 | 0.291 |
| 20.00 | -92.62 | -8.53 | -0.16 | -917.08 | -0.01 | 917.08 | 3,737.39 | 1,868.70 | 6,984.75 | 3,449.50 | 0.60 | -0.29 | 0.291 |
| 25.00 | -89.96 | -8.51 | -0.16 | -874.43 | -0.01 | 874.43 | 3,650.61 | 1,825.30 | 6,662.61 | 3,290.41 | 0.94 | -0.36 | 0.290 |
| 30.00 | -87.33 | -8.50 | -0.16 | -831.86 | -0.01 | 831.86 | 3,563.82 | 1,781.91 | 6,348.08 | 3,135.08 | 1.36 | -0.44 | 0.290 |
| 35.00 | -84.72 | -8.47 | -0.16 | -789.38 | -0.01 | 789.38 | 3,477.03 | 1,738.52 | 6,041.16 | 2,983.50 | 1.86 | -0.52 | 0.289 |
| 40.00 | -82.15 | -8.39 | -0.16 | -747.02 | -0.01 | 747.02 | 3,390.25 | 1,695.12 | 5,741.84 | 2,835.68 | 2.45 | -0.60 | 0.288 |
| 40.57 | -81.85 | -8.43 | -0.16 | -742.23 | -0.01 | 742.23 | 3,380.34 | 1,690.17 | 5,708.16 | 2,819.04 | 2.53 | -0.61 | 0.288 |
| 45.00 | -78.69 | -8.34 | -0.16 | -704.90 | -0.01 | 704.90 | 3,303.46 | 1,651.73 | 5,450.13 | 2,691.61 | 3.13 | -0.68 | 0.286 |
| 45.73 | -78.17 | -8.37 | -0.16 | -698.81 | -0.01 | 698.81 | 2,878.07 | 1,439.04 | 4,834.53 | 2,387.59 | 3.23 | -0.70 | 0.320 |
| 50.00 | -76.14 | -8.35 | -0.16 | -663.05 | -0.01 | 663.05 | 2,814.54 | 1,407.27 | 4,622.50 | 2,282.88 | 3.89 | -0.77 | 0.318 |
| 55.00 | -73.68 | -8.28 | -0.16 | -621.31 | -0.01 | 621.31 | 2,740.15 | 1,370.08 | 4,380.28 | 2,163.25 | 4.74 | -0.86 | 0.314 |
| 60.00 | -71.42 | -8.19 | -0.16 | -579.90 | -0.01 | 579.90 | 2,665.77 | 1,332.88 | 4,144.57 | 2,046.85 | 5.70 | -0.96 | 0.310 |
| 61.00 | -70.62 | -8.15 | -0.16 | -571.71 | -0.01 | 571.71 | 2,650.89 | 1,325.44 | 4,098.21 | 2,023.95 | 5.90 | -0.98 | 0.309 |
| 65.00 | -68.92 | -8.12 | -0.16 | -539.12 | -0.01 | 539.12 | 2,591.38 | 1,295.69 | 3,915.38 | 1,933.66 | 6.75 | -1.06 | 0.305 |
| 70.00 | -66.83 | -8.06 | -0.16 | -498.52 | -0.01 | 498.52 | 2,516.99 | 1,258.49 | 3,692.71 | 1,823.69 | 7.91 | -1.15 | 0.300 |
| 75.00 | -64.77 | -8.00 | -0.16 | -458.20 | -0.01 | 458.20 | 2,442.60 | 1,221.30 | 3,476.56 | 1,716.94 | 9.17 | -1.25 | 0.293 |
| 80.00 | -62.76 | -7.89 | -0.16 | -418.19 | -0.01 | 418.19 | 2,368.21 | 1,184.11 | 3,266.93 | 1,613.41 | 10.53 | -1.35 | 0.286 |
| 81.00 | -62.19 | -7.83 | -0.16 | -410.29 | -0.01 | 410.29 | 2,353.33 | 1,176.67 | 3,225.79 | 1,593.10 | 10.82 | -1.37 | 0.284 |
| 81.11 | -62.14 | -7.87 | -0.16 | -409.40 | -0.01 | 409.40 | 2,351.65 | 1,175.83 | 3,221.15 | 1,590.80 | 10.85 | -1.37 | 0.284 |
| 85.00 | -60.11 | -7.77 | -0.16 | -378.80 | -0.01 | 378.80 | 2,293.82 | 1,146.91 | 3,063.82 | 1,513.11 | 12.00 | -1.45 | 0.277 |
| 85.87 | -59.65 | -7.79 | -0.16 | -372.03 | -0.01 | 372.03 | 1,941.20 | 970.60 | 2,638.48 | 1,303.04 | 12.26 | -1.46 | 0.316 |
| 90.00 | -58.18 | -7.74 | -0.16 | -339.86 | -0.01 | 339.86 | 1,890.00 | 945.00 | 2,500.51 | 1,234.91 | 13.56 | -1.55 | 0.306 |
| 95.00 | -56.44 | -7.67 | -0.16 | -301.14 | -0.01 | 301.14 | 1,828.01 | 914.00 | 2,338.40 | 1,154.85 | 15.24 | -1.65 | 0.292 |
| 100.00 | -54.73 | -7.60 | -0.16 | -262.77 | -0.01 | 262.77 | 1,766.02 | 883.01 | 2,181.73 | 1,077.48 | 17.03 | -1.76 | 0.275 |
| 105.00 | -51.63 | -7.29 | -0.16 | -224.78 | -0.01 | 224.78 | 1,704.03 | 852.01 | 2,030.49 | 1,002.78 | 18.92 | -1.86 | 0.255 |
| 110.00 | -50.22 | -7.20 | -0.16 | -188.33 | -0.01 | 188.33 | 1,642.04 | 821.02 | 1,884.69 | 930.78 | 20.92 | -1.95 | 0.233 |
| 115.00 | -38.65 | -5.73 | -0.16 | -152.31 | -0.01 | 152.31 | 1,580.05 | 790.02 | 1,744.31 | 861.45 | 23.01 | -2.04 | 0.201 |
| 120.00 | -37.38 | -5.61 | -0.16 | -123.65 | -0.01 | 123.65 | 1,518.06 | 759.03 | 1,609.37 | 794.81 | 25.18 | -2.12 | 0.180 |
| 122.22 | -36.83 | -5.56 | -0.16 | -111.20 | -0.01 | 111.20 | 1,490.53 | 745.27 | 1,551.20 | 766.08 | 26.18 | -2.15 | 0.170 |
| 125.00 | -35.97 | -5.48 | -0.16 | -95.74 | -0.01 | 95.74 | 1,456.07 | 728.03 | 1,479.86 | 730.85 | 27.44 | -2.19 | 0.156 |
| 126.40 | -35.54 | -5.45 | -0.16 | -88.05 | -0.01 | 88.05 | 828.07 | 414.03 | 852.87 | 421.20 | 28.09 | -2.21 | 0.252 |
| 130.00 | -26.58 | -4.18 | -0.16 | -68.43 | -0.01 | 68.43 | 816.88 | 408.44 | 815.60 | 402.79 | 29.77 | -2.25 | 0.203 |
| 135.00 | -25.64 | -4.07 | -0.16 | -47.51 | -0.01 | 47.51 | 799.87 | 399.94 | 763.57 | 377.10 | 32.17 | -2.33 | 0.158 |
| 140.00 | -24.75 | -3.94 | -0.16 | -27.18 | -0.01 | 27.18 | 779.72 | 389.86 | 710.17 | 350.73 | 34.64 | -2.38 | 0.109 |
| 142.00 | -14.44 | -2.11 | -0.16 | -19.30 | -0.01 | 19.30 | 764.84 | 382.42 | 683.21 | 337.41 | 35.64 | -2.40 | 0.076 |
| 145.00 | -13.96 | -2.03 | -0.16 | -12.98 | -0.01 | 12.98 | 742.52 | 371.26 | 643.76 | 317.93 | 37.15 | -2.42 | 0.060 |
| 146.00 | -13.81 | -2.00 | -0.16 | -10.96 | -0.01 | 10.96 | 735.08 | 367.54 | 630.87 | 311.56 | 37.66 | -2.42 | 0.054 |
| 146.00 | -13.81 | -2.00 | -0.16 | -10.96 | -0.01 | 10.96 | 735.08 | 367.54 | 630.87 | 311.56 | 37.66 | -2.42 | 0.042 |
| 150.00 | -2.32 | -0.33 | 0.00 | -2.82 | 0.00 | 2.82 | 1,065.01 | 532.51 | 753.93 | 372.34 | 39.69 | -2.43 | 0.010 |
| 155.00 | 0.00 | -0.23 | 0.00 | -1.17 | 0.00 | 1.17 | 1,065.01 | 532.51 | 753.93 | 372.34 | 42.24 | -2.44 | 0.003 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

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Base Elev : 0.000 (ft)

| | | |
|-------------------------------|---------------------------------|-------------------------------|
| Load Case: 1.0D + 1.0W | 60.00 mph Serviceability | 24 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

Shaft Segment Forces (Factored)

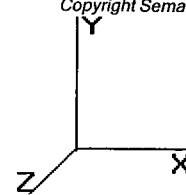
| Seg Top Elev (ft) | Description | Kzt | Kz | qz (psf) | qzGh (psf) | C | Cf | Ice Thick (in) | Tributary (ft) | Aa (sf) | CfAa (sf) | Wind Force X (lb) | Dead Load Ice (lb) | Tot Dead Load (lb) |
|-------------------|-----------------|------|------|----------|------------|--------|-------|----------------|----------------|---------|-----------|-------------------|--------------------|--------------------|
| 0.00 | | 1.00 | 0.70 | 6.129 | 6.742 | 216.54 | 1.000 | 0.00 | 0.00 | 0.000 | 0.00 | 0.0 | 0.0 | 0.0 |
| 5.00 | | 1.00 | 0.70 | 6.129 | 6.742 | 211.98 | 1.000 | 0.00 | 5.00 | 21.341 | 21.34 | 143.9 | 0.0 | 1,175.3 |
| 10.00 | | 1.00 | 0.70 | 6.129 | 6.742 | 207.42 | 1.000 | 0.00 | 5.00 | 20.887 | 20.89 | 140.8 | 0.0 | 1,150.1 |
| 15.00 | Appertunance(s) | 1.00 | 0.70 | 6.129 | 6.742 | 202.86 | 1.000 | 0.00 | 5.00 | 20.433 | 20.43 | 137.7 | 0.0 | 1,124.8 |
| 20.00 | | 1.00 | 0.70 | 6.129 | 6.742 | 198.30 | 1.000 | 0.00 | 5.00 | 19.978 | 19.98 | 134.7 | 0.0 | 1,099.6 |
| 25.00 | | 1.00 | 0.70 | 6.129 | 6.742 | 193.74 | 1.000 | 0.00 | 5.00 | 19.524 | 19.52 | 131.6 | 0.0 | 1,074.3 |
| 30.00 | | 1.00 | 0.70 | 6.134 | 6.747 | 189.25 | 1.000 | 0.00 | 5.00 | 19.070 | 19.07 | 128.7 | 0.0 | 1,049.1 |
| 35.00 | | 1.00 | 0.73 | 6.410 | 7.051 | 188.80 | 1.000 | 0.00 | 5.00 | 18.616 | 18.62 | 131.3 | 0.0 | 1,023.9 |
| 40.00 | | 1.00 | 0.76 | 6.659 | 7.325 | 187.69 | 1.000 | 0.00 | 5.00 | 18.161 | 18.16 | 133.0 | 0.0 | 998.6 |
| 40.57 | Bot - Section 2 | 1.00 | 0.76 | 6.686 | 7.355 | 187.52 | 1.000 | 0.00 | 0.57 | 2.044 | 2.04 | 15.0 | 0.0 | 112.4 |
| 45.00 | | 1.00 | 0.78 | 6.887 | 7.576 | 186.04 | 1.000 | 0.00 | 4.43 | 15.949 | 15.95 | 120.8 | 0.0 | 1,613.8 |
| 45.73 | Top - Section 1 | 1.00 | 0.79 | 6.919 | 7.611 | 185.76 | 1.000 | 0.00 | 0.73 | 2.594 | 2.59 | 19.7 | 0.0 | 262.4 |
| 50.00 | | 1.00 | 0.81 | 7.098 | 7.807 | 187.45 | 1.000 | 0.00 | 4.27 | 14.982 | 14.98 | 117.0 | 0.0 | 707.0 |
| 55.00 | Appertunance(s) | 1.00 | 0.83 | 7.294 | 8.023 | 185.04 | 1.000 | 0.00 | 5.00 | 17.122 | 17.12 | 137.4 | 0.0 | 807.8 |
| 60.00 | | 1.00 | 0.85 | 7.477 | 8.225 | 182.32 | 1.000 | 0.00 | 5.00 | 16.668 | 16.67 | 137.1 | 0.0 | 786.1 |
| 61.00 | Appertunance(s) | 1.00 | 0.85 | 7.513 | 8.264 | 181.74 | 1.000 | 0.00 | 1.00 | 3.279 | 3.28 | 27.1 | 0.0 | 154.6 |
| 65.00 | | 1.00 | 0.87 | 7.650 | 8.415 | 179.32 | 1.000 | 0.00 | 4.00 | 12.934 | 12.93 | 108.8 | 0.0 | 609.9 |
| 70.00 | | 1.00 | 0.89 | 7.814 | 8.595 | 176.08 | 1.000 | 0.00 | 5.00 | 15.759 | 15.76 | 135.5 | 0.0 | 742.8 |
| 75.00 | | 1.00 | 0.91 | 7.969 | 8.766 | 172.62 | 1.000 | 0.00 | 5.00 | 15.305 | 15.30 | 134.2 | 0.0 | 721.2 |
| 80.00 | | 1.00 | 0.92 | 8.118 | 8.930 | 168.97 | 1.000 | 0.00 | 5.00 | 14.851 | 14.85 | 132.6 | 0.0 | 699.6 |
| 81.00 | Appertunance(s) | 1.00 | 0.93 | 8.147 | 8.961 | 168.22 | 1.000 | 0.00 | 1.00 | 2.916 | 2.92 | 26.1 | 0.0 | 137.3 |
| 81.11 | Bot - Section 3 | 1.00 | 0.93 | 8.150 | 8.965 | 168.13 | 1.000 | 0.00 | 0.11 | 0.329 | 0.33 | 2.9 | 0.0 | 15.5 |
| 85.00 | | 1.00 | 0.94 | 8.260 | 9.086 | 165.14 | 1.000 | 0.00 | 3.89 | 11.362 | 11.36 | 103.2 | 0.0 | 971.9 |
| 85.87 | Top - Section 2 | 1.00 | 0.94 | 8.284 | 9.112 | 164.46 | 1.000 | 0.00 | 0.87 | 2.507 | 2.51 | 22.8 | 0.0 | 214.4 |
| 90.00 | | 1.00 | 0.95 | 8.396 | 9.235 | 164.33 | 1.000 | 0.00 | 4.13 | 11.704 | 11.70 | 108.1 | 0.0 | 460.1 |
| 95.00 | | 1.00 | 0.97 | 8.526 | 9.379 | 160.22 | 1.000 | 0.00 | 5.00 | 13.758 | 13.76 | 129.0 | 0.0 | 540.7 |
| 100.00 | | 1.00 | 0.98 | 8.652 | 9.517 | 155.98 | 1.000 | 0.00 | 5.00 | 13.303 | 13.30 | 126.6 | 0.0 | 522.6 |
| 105.00 | Appertunance(s) | 1.00 | 1.00 | 8.774 | 9.651 | 151.62 | 1.000 | 0.00 | 5.00 | 12.849 | 12.85 | 124.0 | 0.0 | 504.6 |
| 110.00 | | 1.00 | 1.01 | 8.891 | 9.780 | 147.13 | 1.000 | 0.00 | 5.00 | 12.395 | 12.39 | 121.2 | 0.0 | 486.6 |
| 115.00 | Appertunance(s) | 1.00 | 1.02 | 9.005 | 9.905 | 142.54 | 1.000 | 0.00 | 5.00 | 11.940 | 11.94 | 118.3 | 0.0 | 468.5 |
| 120.00 | | 1.00 | 1.04 | 9.115 | 10.02 | 137.85 | 1.000 | 0.00 | 5.00 | 11.486 | 11.49 | 115.2 | 0.0 | 450.5 |
| 122.20 | Bot - Section 4 | 1.00 | 1.04 | 9.163 | 10.07 | 135.74 | 1.000 | 0.00 | 2.22 | 4.954 | 4.95 | 49.9 | 0.0 | 194.3 |
| 125.00 | | 1.00 | 1.05 | 9.222 | 10.14 | 133.06 | 1.000 | 0.00 | 2.78 | 6.167 | 6.17 | 62.6 | 0.0 | 384.0 |
| 126.40 | Top - Section 3 | 1.00 | 1.05 | 9.251 | 10.17 | 131.70 | 1.000 | 0.00 | 1.40 | 3.059 | 3.06 | 31.1 | 0.0 | 190.4 |
| 130.00 | Appertunance(s) | 1.00 | 1.06 | 9.326 | 10.25 | 130.19 | 1.000 | 0.00 | 3.60 | 7.680 | 7.68 | 78.8 | 0.0 | 181.5 |
| 135.00 | | 1.00 | 1.07 | 9.427 | 10.36 | 125.24 | 1.000 | 0.00 | 5.00 | 10.285 | 10.29 | 106.7 | 0.0 | 243.0 |
| 140.00 | | 1.00 | 1.08 | 9.525 | 10.47 | 120.20 | 1.000 | 0.00 | 5.00 | 9.831 | 9.83 | 103.0 | 0.0 | 232.2 |
| 142.00 | Appertunance(s) | 1.00 | 1.09 | 9.564 | 10.52 | 118.17 | 1.000 | 0.00 | 2.00 | 3.805 | 3.81 | 40.0 | 0.0 | 89.8 |
| 145.00 | | 1.00 | 1.09 | 9.621 | 10.58 | 115.09 | 1.000 | 0.00 | 3.00 | 5.571 | 5.57 | 59.0 | 0.0 | 131.5 |
| 146.00 | Top - Section 4 | 1.00 | 1.10 | 9.640 | 10.60 | 114.06 | 1.000 | 0.00 | 1.00 | 1.821 | 1.82 | 19.3 | 0.0 | 43.0 |
| 150.00 | Appertunance(s) | 1.00 | 1.11 | 9.715 | 10.68 | 98.149 | 1.000 | 0.00 | 4.00 | 6.212 | 6.21 | 66.4 | 0.0 | 383.5 |
| 155.00 | Appertunance(s) | 1.00 | 1.12 | 9.806 | 10.78 | 98.609 | 1.000 | 0.00 | 5.00 | 7.765 | 7.76 | 83.8 | 0.0 | 479.4 |
| Totals: | | | | | | | | | 155.00 | | | 3,865.0 | 0.0 | 23,238.7 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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| | | |
|-------------------------------|--------------------------|-------------------------------|
| Load Case: 1.0D + 1.0W | 60.00 mph Serviceability | 24 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

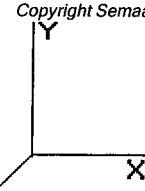
Discrete Appurtenance Segment Forces (Factored)

| Elev (ft) | Description | Qty | qz (psf) | qzGh (psf) | CaAa Factor | Ka | Total CaAa (sf) | Horiz Ecc (ft) | Vert Ecc (ft) | Wind FX (lb) | Mom Y (lb-ft) | Mom Z (lb-ft) | Dead Load (lb) |
|-----------|----------------------|-----|----------|------------|-------------|------|-----------------|----------------|---------------|--------------|---------------|---------------|----------------|
| 15.00 | Dish Standard | 1 | 6.129 | 6.742 | 1.00 | 1.00 | 20.91 | 0.000 | 0.000 | 140.96 | 0.00 | 0.00 | 188.00 |
| 55.00 | 2" x 4" GPS | 1 | 7.300 | 8.030 | 1.00 | 1.00 | 0.04 | 0.000 | 0.167 | 0.32 | 0.00 | 0.05 | 5.00 |
| 55.00 | Stand Off | 1 | 7.294 | 8.023 | 1.00 | 1.00 | 2.00 | 0.000 | 0.000 | 16.05 | 0.00 | 0.00 | 50.00 |
| 61.00 | GPS | 2 | 7.530 | 8.283 | 1.00 | 1.00 | 2.00 | 0.000 | 0.500 | 16.57 | 0.00 | 8.28 | 20.00 |
| 61.00 | Stand Off | 2 | 7.513 | 8.264 | 1.00 | 1.00 | 4.00 | 0.000 | 0.000 | 33.06 | 0.00 | 0.00 | 100.00 |
| 81.00 | GPS | 1 | 8.161 | 8.977 | 1.00 | 1.00 | 1.00 | 0.000 | 0.500 | 8.98 | 0.00 | 4.49 | 10.00 |
| 81.00 | Stand Off | 1 | 8.147 | 8.961 | 1.00 | 1.00 | 2.00 | 0.000 | 0.000 | 17.92 | 0.00 | 0.00 | 50.00 |
| 105.0 | RFS APXV18- | 3 | 8.774 | 9.651 | 0.60 | 0.80 | 9.04 | 0.000 | 0.000 | 87.21 | 0.00 | 0.00 | 66.00 |
| 105.0 | Flush Mounts | 1 | 8.774 | 9.651 | 1.00 | 1.00 | 5.00 | 0.000 | 0.000 | 48.25 | 0.00 | 0.00 | 200.00 |
| 115.0 | 72" x 12" Panel | 3 | 9.005 | 9.905 | 0.60 | 0.80 | 15.12 | 0.000 | 0.000 | 149.77 | 0.00 | 0.00 | 120.00 |
| 115.0 | 48" x 12" Panel | 9 | 9.005 | 9.905 | 0.60 | 0.80 | 30.24 | 0.000 | 0.000 | 299.53 | 0.00 | 0.00 | 270.00 |
| 115.0 | Platform w/ Handrail | 1 | 9.005 | 9.905 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 302.11 | 0.00 | 0.00 | 2,500.00 |
| 130.0 | Decibel DB980H65T2E- | 5 | 9.326 | 10.258 | 0.60 | 0.80 | 11.40 | 0.000 | 0.000 | 116.94 | 0.00 | 0.00 | 42.50 |
| 130.0 | Decibel DB980H90A- | 4 | 9.326 | 10.258 | 0.60 | 0.80 | 9.12 | 0.000 | 0.000 | 93.56 | 0.00 | 0.00 | 34.00 |
| 130.0 | Platform w/ Handrail | 1 | 9.326 | 10.258 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 312.88 | 0.00 | 0.00 | 2,500.00 |
| 142.0 | Andrew DB948F85E-M | 6 | 9.564 | 10.520 | 0.56 | 0.75 | 11.04 | 0.000 | 0.000 | 116.10 | 0.00 | 0.00 | 51.00 |
| 142.0 | EMS FV65-15-XL-2 | 3 | 9.564 | 10.520 | 0.59 | 0.75 | 9.95 | 0.000 | 0.000 | 104.72 | 0.00 | 0.00 | 63.00 |
| 142.0 | Swedcom ALP 9212-N | 6 | 9.564 | 10.520 | 0.75 | 0.75 | 20.34 | 0.000 | 0.000 | 213.98 | 0.00 | 0.00 | 160.20 |
| 142.0 | Platform w/ Handrail | 1 | 9.564 | 10.520 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 320.87 | 0.00 | 0.00 | 2,500.00 |
| 150.0 | 7' Omni | 1 | 9.779 | 10.757 | 1.00 | 1.00 | 2.10 | 0.000 | 3.500 | 22.59 | 0.00 | 79.06 | 15.00 |
| 150.0 | Diplexer / Coupler | 6 | 9.715 | 10.686 | 0.50 | 1.00 | 2.13 | 0.000 | 0.000 | 22.76 | 0.00 | 0.00 | 24.00 |
| 150.0 | Powerwave 7770.00 | 3 | 9.715 | 10.686 | 0.59 | 0.80 | 10.55 | 0.000 | 0.000 | 112.75 | 0.00 | 0.00 | 105.00 |
| 150.0 | Platform w/ Handrail | 1 | 9.715 | 10.686 | 1.00 | 1.00 | 30.50 | 0.000 | 0.000 | 325.93 | 0.00 | 0.00 | 2,500.00 |
| 150.0 | CSS DUO4-8670 | 6 | 9.715 | 10.686 | 0.65 | 0.80 | 25.62 | 0.000 | 0.000 | 273.80 | 0.00 | 0.00 | 168.00 |
| 150.0 | ADC DD800 | 6 | 9.715 | 10.686 | 0.50 | 1.00 | 3.72 | 3.942 | 0.000 | 39.75 | 156.72 | 0.00 | 84.00 |
| 155.0 | Canister | 1 | 9.954 | 10.949 | 1.00 | 1.00 | 12.00 | 0.000 | 8.300 | 131.39 | 0.00 | 1,090.51 | 500.00 |
| | | | | | | | | | | 3,328.75 | | | 12,325.70 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code : ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1
 Base Elev : 0.000 (ft)

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Load Case: 1.0D + 1.0W 60.00 mph Serviceability 24 Iterations
 Gust Response Factor : 1.10 Wind Importance Factor : 1.00
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

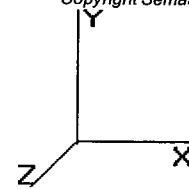
Linear Appurtenance Segment Forces (Factored)

| Seg Top Elev (ft) | Description | Exposed To Wind | Length (ft) | Ca | Exposed Width (in) | Area (sqft) | CaAa (sqft) | qz (psf) | Ra | Cf Adjust Factor | F X (lb) | Dead Load (lb) |
|-------------------|-----------------|-----------------|-------------|-------|--------------------|-------------|-------------|----------|-------|------------------|----------|----------------|
| 5.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.129 | 0.076 | 0.000 | 0.00 | 24.60 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.076 | 0.000 | 0.00 | 0.75 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.076 | 0.000 | 0.00 | 0.75 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.076 | 0.000 | 0.00 | 0.75 |
| 5.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.076 | 0.000 | 0.00 | 0.75 |
| 5.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.076 | 0.000 | 0.00 | 0.75 |
| 10.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.129 | 0.078 | 0.000 | 0.00 | 24.60 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.078 | 0.000 | 0.00 | 0.75 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.078 | 0.000 | 0.00 | 0.75 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.078 | 0.000 | 0.00 | 0.75 |
| 10.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.078 | 0.000 | 0.00 | 0.75 |
| 10.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.078 | 0.000 | 0.00 | 0.75 |
| 15.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.129 | 0.079 | 0.000 | 0.00 | 24.60 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.079 | 0.000 | 0.00 | 0.75 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.079 | 0.000 | 0.00 | 0.75 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.079 | 0.000 | 0.00 | 0.75 |
| 15.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.079 | 0.000 | 0.00 | 0.75 |
| 15.00 | (1) RG6 Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.079 | 0.000 | 0.00 | 0.75 |
| 20.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.129 | 0.081 | 0.000 | 0.00 | 24.60 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.081 | 0.000 | 0.00 | 0.75 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.081 | 0.000 | 0.00 | 0.75 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.081 | 0.000 | 0.00 | 0.75 |
| 20.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.081 | 0.000 | 0.00 | 0.75 |
| 25.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.129 | 0.083 | 0.000 | 0.00 | 24.60 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.083 | 0.000 | 0.00 | 0.75 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.083 | 0.000 | 0.00 | 0.75 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.129 | 0.083 | 0.000 | 0.00 | 0.75 |
| 25.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.129 | 0.083 | 0.000 | 0.00 | 0.75 |
| 30.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.134 | 0.085 | 0.000 | 0.00 | 24.60 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.134 | 0.085 | 0.000 | 0.00 | 0.75 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.134 | 0.085 | 0.000 | 0.00 | 0.75 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.134 | 0.085 | 0.000 | 0.00 | 0.75 |
| 30.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.134 | 0.085 | 0.000 | 0.00 | 0.75 |
| 35.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.410 | 0.087 | 0.000 | 0.00 | 24.60 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.410 | 0.087 | 0.000 | 0.00 | 0.75 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.410 | 0.087 | 0.000 | 0.00 | 0.75 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.410 | 0.087 | 0.000 | 0.00 | 0.75 |
| 35.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.410 | 0.087 | 0.000 | 0.00 | 0.75 |
| 40.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 6.659 | 0.089 | 0.000 | 0.00 | 24.60 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.659 | 0.089 | 0.000 | 0.00 | 0.75 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.659 | 0.089 | 0.000 | 0.00 | 0.75 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 6.659 | 0.089 | 0.000 | 0.00 | 0.75 |
| 40.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 6.659 | 0.089 | 0.000 | 0.00 | 0.75 |
| 40.57 | (6) 1 5/8" Coax | Yes | 0.57 | 0.000 | 2.00 | 0.10 | 0.00 | 6.686 | 0.091 | 0.000 | 0.00 | 2.81 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 6.686 | 0.091 | 0.000 | 0.00 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 6.686 | 0.091 | 0.000 | 0.00 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.63 | 0.03 | 0.00 | 6.686 | 0.091 | 0.000 | 0.00 | 0.09 |
| 40.57 | (1) 1/2" Coax | Yes | 0.57 | 0.000 | 0.00 | 0.00 | 0.00 | 6.686 | 0.091 | 0.000 | 0.00 | 0.09 |
| 45.00 | (6) 1 5/8" Coax | Yes | 4.43 | 0.000 | 2.00 | 0.74 | 0.00 | 6.887 | 0.092 | 0.000 | 0.00 | 21.79 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 6.887 | 0.092 | 0.000 | 0.00 | 0.66 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 6.887 | 0.092 | 0.000 | 0.00 | 0.66 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



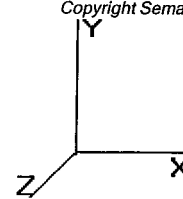
| | | |
|-------------------------------|--------------------------|-------------------------------|
| Load Case: 1.0D + 1.0W | 60.00 mph Serviceability | 24 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

| | | | | | | | | | | | | |
|----------------|-----------------|-----|------|-------|------|------|------|-------|-------|-------|------|--------|
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.63 | 0.23 | 0.00 | 6.887 | 0.092 | 0.000 | 0.00 | 0.66 |
| 45.00 | (1) 1/2" Coax | Yes | 4.43 | 0.000 | 0.00 | 0.00 | 0.00 | 6.887 | 0.092 | 0.000 | 0.00 | 0.66 |
| 45.73 | (6) 1 5/8" Coax | Yes | 0.73 | 0.000 | 2.00 | 0.12 | 0.00 | 6.919 | 0.093 | 0.000 | 0.00 | 3.59 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 6.919 | 0.093 | 0.000 | 0.00 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 6.919 | 0.093 | 0.000 | 0.00 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.63 | 0.04 | 0.00 | 6.919 | 0.093 | 0.000 | 0.00 | 0.11 |
| 45.73 | (1) 1/2" Coax | Yes | 0.73 | 0.000 | 0.00 | 0.00 | 0.00 | 6.919 | 0.093 | 0.000 | 0.00 | 0.11 |
| 50.00 | (6) 1 5/8" Coax | Yes | 4.27 | 0.000 | 2.00 | 0.71 | 0.00 | 7.098 | 0.092 | 0.000 | 0.00 | 21.01 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 7.098 | 0.092 | 0.000 | 0.00 | 0.64 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 7.098 | 0.092 | 0.000 | 0.00 | 0.64 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.63 | 0.22 | 0.00 | 7.098 | 0.092 | 0.000 | 0.00 | 0.64 |
| 50.00 | (1) 1/2" Coax | Yes | 4.27 | 0.000 | 0.00 | 0.00 | 0.00 | 7.098 | 0.092 | 0.000 | 0.00 | 0.64 |
| 55.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 7.294 | 0.095 | 0.000 | 0.00 | 24.60 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.294 | 0.095 | 0.000 | 0.00 | 0.75 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.294 | 0.095 | 0.000 | 0.00 | 0.75 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.294 | 0.095 | 0.000 | 0.00 | 0.75 |
| 55.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 7.294 | 0.095 | 0.000 | 0.00 | 0.75 |
| 60.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 7.477 | 0.097 | 0.000 | 0.00 | 24.60 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.477 | 0.097 | 0.000 | 0.00 | 0.75 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.477 | 0.097 | 0.000 | 0.00 | 0.75 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.477 | 0.097 | 0.000 | 0.00 | 0.75 |
| 60.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.00 | 0.00 | 0.00 | 7.477 | 0.097 | 0.000 | 0.00 | 0.75 |
| 61.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.17 | 0.00 | 7.513 | 0.099 | 0.000 | 0.00 | 4.92 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 7.513 | 0.099 | 0.000 | 0.00 | 0.15 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 7.513 | 0.099 | 0.000 | 0.00 | 0.15 |
| 61.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 7.513 | 0.099 | 0.000 | 0.00 | 0.15 |
| 65.00 | (6) 1 5/8" Coax | Yes | 4.00 | 0.000 | 2.00 | 0.67 | 0.00 | 7.650 | 0.068 | 0.000 | 0.00 | 19.68 |
| 65.00 | (1) 1/2" Coax | Yes | 4.00 | 0.000 | 0.63 | 0.21 | 0.00 | 7.650 | 0.068 | 0.000 | 0.00 | 0.60 |
| 70.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 7.814 | 0.070 | 0.000 | 0.00 | 24.60 |
| 70.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.814 | 0.070 | 0.000 | 0.00 | 0.75 |
| 75.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 7.969 | 0.072 | 0.000 | 0.00 | 24.60 |
| 75.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 7.969 | 0.072 | 0.000 | 0.00 | 0.75 |
| 80.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 8.118 | 0.074 | 0.000 | 0.00 | 24.60 |
| 80.00 | (1) 1/2" Coax | Yes | 5.00 | 0.000 | 0.63 | 0.26 | 0.00 | 8.118 | 0.074 | 0.000 | 0.00 | 0.75 |
| 81.00 | (6) 1 5/8" Coax | Yes | 1.00 | 0.000 | 2.00 | 0.17 | 0.00 | 8.147 | 0.075 | 0.000 | 0.00 | 4.92 |
| 81.00 | (1) 1/2" Coax | Yes | 1.00 | 0.000 | 0.63 | 0.05 | 0.00 | 8.147 | 0.075 | 0.000 | 0.00 | 0.15 |
| 81.11 | (6) 1 5/8" Coax | Yes | 0.11 | 0.000 | 2.00 | 0.02 | 0.00 | 8.150 | 0.057 | 0.000 | 0.00 | 0.56 |
| 85.00 | (6) 1 5/8" Coax | Yes | 3.89 | 0.000 | 2.00 | 0.65 | 0.00 | 8.260 | 0.058 | 0.000 | 0.00 | 19.12 |
| 85.87 | (6) 1 5/8" Coax | Yes | 0.87 | 0.000 | 2.00 | 0.15 | 0.00 | 8.284 | 0.059 | 0.000 | 0.00 | 4.28 |
| 90.00 | (6) 1 5/8" Coax | Yes | 4.13 | 0.000 | 2.00 | 0.69 | 0.00 | 8.396 | 0.059 | 0.000 | 0.00 | 20.31 |
| 95.00 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 8.526 | 0.061 | 0.000 | 0.00 | 24.60 |
| 100.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 8.652 | 0.063 | 0.000 | 0.00 | 24.60 |
| 105.0 | (6) 1 5/8" Coax | Yes | 5.00 | 0.000 | 2.00 | 0.83 | 0.00 | 8.774 | 0.065 | 0.000 | 0.00 | 24.60 |
| Totals: | | | | | | | | | | | 0.00 | 557.49 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



| | | |
|-------------------------------|--------------------------|-------------------------------|
| Load Case: 1.0D + 1.0W | 60.00 mph Serviceability | 24 Iterations |
| Gust Response Factor : 1.10 | | Wind Importance Factor : 1.00 |
| Dead Load Factor : 1.00 | | |
| Wind Load Factor : 1.00 | | |

Applied Segment Forces Summary

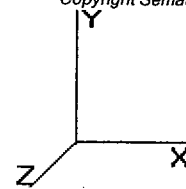
| Seg Elev (ft) | Lateral FX (-) (lb) | Axial FY (-) (lb) | Torsion MY (lb-ft) | Moment MZ (lb-ft) |
|---------------|---------------------|-------------------|--------------------|-------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5.00 | 143.87 | 1,416.78 | 0.00 | 0.00 |
| 10.00 | 140.81 | 1,391.54 | 0.00 | 0.00 |
| 15.00 | 278.71 | 1,554.30 | 0.00 | 0.00 |
| 20.00 | 134.68 | 1,340.31 | 0.00 | 0.00 |
| 25.00 | 131.62 | 1,315.07 | 0.00 | 0.00 |
| 30.00 | 128.67 | 1,289.83 | 0.00 | 0.00 |
| 35.00 | 131.26 | 1,264.59 | 0.00 | 0.00 |
| 40.00 | 133.04 | 1,239.34 | 0.00 | 0.00 |
| 40.57 | 15.03 | 139.86 | 0.00 | 0.00 |
| 45.00 | 120.83 | 1,827.02 | 0.00 | 0.00 |
| 45.73 | 19.74 | 297.55 | 0.00 | 0.00 |
| 50.00 | 116.97 | 912.54 | 0.00 | 0.00 |
| 55.00 | 153.74 | 1,103.47 | 0.00 | 0.05 |
| 60.00 | 137.09 | 1,026.09 | 0.00 | 0.00 |
| 61.00 | 76.72 | 322.62 | 0.00 | 8.28 |
| 65.00 | 108.85 | 800.63 | 0.00 | 0.00 |
| 70.00 | 135.45 | 981.32 | 0.00 | 0.00 |
| 75.00 | 134.17 | 959.68 | 0.00 | 0.00 |
| 80.00 | 132.61 | 938.05 | 0.00 | 0.00 |
| 81.00 | 53.03 | 245.01 | 0.00 | 4.49 |
| 81.11 | 2.95 | 20.86 | 0.00 | 0.00 |
| 85.00 | 103.23 | 1,156.71 | 0.00 | 0.00 |
| 85.87 | 22.85 | 255.81 | 0.00 | 0.00 |
| 90.00 | 108.09 | 656.44 | 0.00 | 0.00 |
| 95.00 | 129.03 | 778.38 | 0.00 | 0.00 |
| 100.0 | 126.61 | 760.36 | 0.00 | 0.00 |
| 105.0 | 259.47 | 1,008.33 | 0.00 | 0.00 |
| 110.0 | 121.22 | 699.70 | 0.00 | 0.00 |
| 115.0 | 869.67 | 3,571.67 | 0.00 | 0.00 |
| 120.0 | 115.16 | 614.45 | 0.00 | 0.00 |
| 122.2 | 49.94 | 267.04 | 0.00 | 0.00 |
| 125.0 | 62.56 | 475.17 | 0.00 | 0.00 |
| 126.4 | 31.13 | 236.44 | 0.00 | 0.00 |
| 130.0 | 602.16 | 2,875.93 | 0.00 | 0.00 |
| 135.0 | 106.65 | 370.03 | 0.00 | 0.00 |
| 140.0 | 103.01 | 359.21 | 0.00 | 0.00 |
| 142.0 | 795.71 | 2,914.86 | 0.00 | 0.00 |
| 145.0 | 58.96 | 170.84 | 0.00 | 0.00 |
| 146.0 | 19.31 | 56.09 | 0.00 | 0.00 |
| 150.0 | 863.98 | 3,331.92 | 156.72 | 79.06 |
| 155.0 | 215.14 | 1,003.96 | 0.00 | 1,090.51 |
| Totals: | 7,193.72 | 41,949.79 | 156.72 | 1,182.40 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)

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 2/1/2010 3:09:03 PM
 Page: 27



Load Case: 1.0D + 1.0W

60.00 mph Serviceability

24 Iterations

Gust Response Factor : 1.10
 Dead Load Factor : 1.00
 Wind Load Factor : 1.00

Wind Importance Factor : 1.00

Calculated Forces

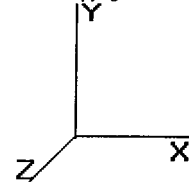
| Seg Elev (ft) | Pu FY (-) (kips) | Vu FX (-) (kips) | Tu MY (ft-kips) | Mu MZ (ft-kips) | Mu MX (ft-kips) | Resultant Moment (ft-kips) | phi Pn (kips) | phi Vn (kips) | phi Tn (ft-kips) | phi Mn (ft-kips) | Total Deflect (in) | Rotation (deg) | Ratio |
|---------------|------------------|------------------|-----------------|-----------------|-----------------|----------------------------|---------------|---------------|------------------|------------------|--------------------|----------------|-------|
| 0.00 | -41.95 | -7.21 | -0.16 | -751.03 | 0.00 | 751.03 | 4,084.54 | 2,042.27 | 8,349.33 | 4,123.42 | 0.00 | 0.00 | 0.192 |
| 5.00 | -40.52 | -7.10 | -0.16 | -714.98 | 0.00 | 714.98 | 3,997.75 | 1,998.88 | 7,996.78 | 3,949.31 | 0.03 | -0.05 | 0.191 |
| 10.00 | -39.13 | -6.99 | -0.16 | -679.48 | 0.00 | 679.48 | 3,910.97 | 1,955.48 | 7,651.83 | 3,778.95 | 0.10 | -0.10 | 0.190 |
| 15.00 | -37.57 | -6.74 | -0.16 | -644.52 | 0.00 | 644.52 | 3,824.18 | 1,912.09 | 7,314.48 | 3,612.35 | 0.23 | -0.14 | 0.188 |
| 20.00 | -36.22 | -6.63 | -0.16 | -610.82 | 0.00 | 610.82 | 3,737.39 | 1,868.70 | 6,984.75 | 3,449.50 | 0.41 | -0.19 | 0.187 |
| 25.00 | -34.90 | -6.53 | -0.16 | -577.65 | 0.00 | 577.65 | 3,650.61 | 1,825.30 | 6,662.61 | 3,290.41 | 0.64 | -0.25 | 0.185 |
| 30.00 | -33.61 | -6.42 | -0.16 | -545.01 | 0.00 | 545.01 | 3,563.82 | 1,781.91 | 6,348.08 | 3,135.08 | 0.92 | -0.30 | 0.183 |
| 35.00 | -32.34 | -6.31 | -0.16 | -512.89 | 0.00 | 512.89 | 3,477.03 | 1,738.52 | 6,041.16 | 2,983.50 | 1.26 | -0.35 | 0.181 |
| 40.00 | -31.10 | -6.19 | -0.16 | -481.32 | 0.00 | 481.32 | 3,390.25 | 1,695.12 | 5,741.84 | 2,835.68 | 1.65 | -0.40 | 0.179 |
| 40.57 | -30.95 | -6.19 | -0.16 | -477.78 | 0.00 | 477.78 | 3,380.34 | 1,690.17 | 5,708.16 | 2,819.04 | 1.70 | -0.41 | 0.179 |
| 45.00 | -29.12 | -6.07 | -0.16 | -450.38 | 0.00 | 450.38 | 3,303.46 | 1,651.73 | 5,450.13 | 2,691.61 | 2.10 | -0.45 | 0.176 |
| 45.73 | -28.82 | -6.06 | -0.16 | -445.95 | 0.00 | 445.95 | 2,878.07 | 1,439.04 | 4,834.53 | 2,387.59 | 2.17 | -0.46 | 0.197 |
| 50.00 | -27.91 | -5.96 | -0.16 | -420.08 | 0.00 | 420.08 | 2,814.54 | 1,407.27 | 4,622.50 | 2,282.88 | 2.60 | -0.51 | 0.194 |
| 55.00 | -26.80 | -5.82 | -0.16 | -390.28 | 0.00 | 390.28 | 2,740.15 | 1,370.08 | 4,380.28 | 2,163.25 | 3.17 | -0.57 | 0.190 |
| 60.00 | -25.77 | -5.69 | -0.16 | -361.16 | 0.00 | 361.16 | 2,665.77 | 1,332.88 | 4,144.57 | 2,046.85 | 3.79 | -0.63 | 0.186 |
| 61.00 | -25.45 | -5.62 | -0.16 | -355.46 | 0.00 | 355.46 | 2,650.89 | 1,325.44 | 4,098.21 | 2,023.95 | 3.93 | -0.64 | 0.185 |
| 65.00 | -24.64 | -5.53 | -0.16 | -332.96 | 0.00 | 332.96 | 2,591.38 | 1,295.69 | 3,915.38 | 1,933.66 | 4.48 | -0.69 | 0.182 |
| 70.00 | -23.66 | -5.41 | -0.16 | -305.31 | 0.00 | 305.31 | 2,516.99 | 1,258.49 | 3,692.71 | 1,823.69 | 5.23 | -0.75 | 0.177 |
| 75.00 | -22.69 | -5.28 | -0.16 | -278.28 | 0.00 | 278.28 | 2,442.60 | 1,221.30 | 3,476.56 | 1,716.94 | 6.05 | -0.81 | 0.171 |
| 80.00 | -21.75 | -5.15 | -0.16 | -251.86 | 0.00 | 251.86 | 2,368.21 | 1,184.11 | 3,266.93 | 1,613.41 | 6.92 | -0.86 | 0.165 |
| 81.00 | -21.51 | -5.10 | -0.16 | -246.71 | 0.00 | 246.71 | 2,353.33 | 1,176.67 | 3,225.79 | 1,593.10 | 7.10 | -0.88 | 0.164 |
| 81.11 | -21.49 | -5.10 | -0.16 | -246.13 | 0.00 | 246.13 | 2,351.65 | 1,175.83 | 3,221.15 | 1,590.80 | 7.12 | -0.88 | 0.164 |
| 85.00 | -20.33 | -4.99 | -0.16 | -226.30 | 0.00 | 226.30 | 2,293.82 | 1,146.91 | 3,063.82 | 1,513.11 | 7.86 | -0.92 | 0.158 |
| 85.87 | -20.07 | -4.97 | -0.16 | -221.95 | 0.00 | 221.95 | 1,941.20 | 970.60 | 2,638.48 | 1,303.04 | 8.03 | -0.93 | 0.181 |
| 90.00 | -19.41 | -4.87 | -0.16 | -201.42 | 0.00 | 201.42 | 1,890.00 | 945.00 | 2,500.51 | 1,234.91 | 8.86 | -0.98 | 0.173 |
| 95.00 | -18.63 | -4.75 | -0.16 | -177.05 | 0.00 | 177.05 | 1,828.01 | 914.00 | 2,338.40 | 1,154.85 | 9.92 | -1.05 | 0.164 |
| 100.00 | -17.87 | -4.63 | -0.16 | -153.29 | 0.00 | 153.29 | 1,766.02 | 883.01 | 2,181.73 | 1,077.48 | 11.05 | -1.11 | 0.152 |
| 105.00 | -16.86 | -4.37 | -0.16 | -130.15 | 0.00 | 130.15 | 1,704.03 | 852.01 | 2,030.49 | 1,002.78 | 12.24 | -1.17 | 0.140 |
| 110.00 | -16.16 | -4.25 | -0.16 | -108.32 | 0.00 | 108.32 | 1,642.04 | 821.02 | 1,884.69 | 930.78 | 13.49 | -1.22 | 0.126 |
| 115.00 | -12.60 | -3.31 | -0.16 | -87.09 | 0.00 | 87.09 | 1,580.05 | 790.02 | 1,744.31 | 861.45 | 14.80 | -1.27 | 0.109 |
| 120.00 | -11.99 | -3.19 | -0.16 | -70.55 | 0.00 | 70.55 | 1,518.06 | 759.03 | 1,609.37 | 794.81 | 16.15 | -1.31 | 0.097 |
| 122.22 | -11.72 | -3.13 | -0.16 | -63.47 | 0.00 | 63.47 | 1,490.53 | 745.27 | 1,551.20 | 766.08 | 16.77 | -1.33 | 0.091 |
| 125.00 | -11.25 | -3.06 | -0.16 | -54.76 | 0.00 | 54.76 | 1,456.07 | 728.03 | 1,479.86 | 730.85 | 17.55 | -1.36 | 0.083 |
| 126.40 | -11.01 | -3.03 | -0.16 | -50.46 | 0.00 | 50.46 | 828.07 | 414.03 | 852.87 | 421.20 | 17.95 | -1.37 | 0.133 |
| 130.00 | -8.15 | -2.36 | -0.16 | -39.56 | 0.00 | 39.56 | 816.88 | 408.44 | 815.60 | 402.79 | 18.99 | -1.39 | 0.108 |
| 135.00 | -7.78 | -2.25 | -0.16 | -27.74 | 0.00 | 27.74 | 799.87 | 399.94 | 763.57 | 377.10 | 20.47 | -1.44 | 0.083 |
| 140.00 | -7.42 | -2.14 | -0.16 | -16.47 | 0.00 | 16.47 | 779.72 | 389.86 | 710.17 | 350.73 | 22.00 | -1.47 | 0.057 |
| 142.00 | -4.53 | -1.28 | -0.16 | -12.18 | 0.00 | 12.18 | 764.84 | 382.42 | 683.21 | 337.41 | 22.61 | -1.48 | 0.042 |
| 145.00 | -4.36 | -1.21 | -0.16 | -8.36 | 0.00 | 8.36 | 742.52 | 371.26 | 643.76 | 317.93 | 23.55 | -1.49 | 0.032 |
| 146.00 | -4.31 | -1.19 | -0.16 | -7.14 | 0.00 | 7.14 | 735.08 | 367.54 | 630.87 | 311.56 | 23.86 | -1.49 | 0.029 |
| 146.00 | -4.31 | -1.19 | -0.16 | -7.14 | 0.00 | 7.14 | 735.08 | 367.54 | 630.87 | 311.56 | 23.86 | -1.49 | 0.023 |
| 150.00 | -1.00 | -0.24 | 0.00 | -2.30 | 0.00 | 2.30 | 1,065.01 | 532.51 | 753.93 | 372.34 | 25.11 | -1.50 | 0.007 |
| 155.00 | 0.00 | -0.22 | 0.00 | -1.09 | 0.00 | 1.09 | 1,065.01 | 532.51 | 753.93 | 372.34 | 26.69 | -1.50 | 0.003 |

Pole : 302495
Location : Tolland CT, CT
Height : 155.0 (ft)
Shape : 12 Sides
Base Dia : 50.00 (in)
Top Dia : 18.00 (in)
Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
Struct Class : II
Exposure Category : B
Topographic Category : 1

Base Elev : 0.000 (ft)

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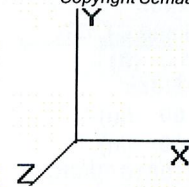
Analysis Summary

| Load Case | Reactions | | | | | | Max Usage | |
|----------------------|-----------------------|-----------------------|-----------------------|---------------------------|---------------------------|---------------------------|--------------|----------------------|
| | Shear FX (kips) | Shear FZ (kips) | Axial FY (kips) | Moment MX (ft-kips) | Moment MY (ft-kips) | Moment MZ (ft-kips) | Elev (ft) | Interaction Ratio |
| 1.2D + 1.6W | 32.07 | 0.00 | 50.28 | 0.03 | 0.67 | 3366.76 | 45.73 | 0.85 |
| 0.9D + 1.6W | 32.04 | 0.00 | 37.69 | 0.02 | 0.68 | 3315.57 | 45.73 | 0.83 |
| 1.2D + 1.0Di + 1.0Wi | 8.69 | 0.00 | 103.98 | 0.01 | 0.16 | 1090.00 | 45.73 | 0.32 |
| 1.0D + 1.0W | 7.21 | 0.00 | 41.95 | 0.00 | 0.16 | 751.03 | 45.73 | 0.20 |

Pole : 302495
 Location : Tolland CT, CT
 Height : 155.0 (ft)
 Shape : 12 Sides
 Base Dia : 50.00 (in)
 Top Dia : 18.00 (in)
 Taper : 0.210616 (in/ft)

Code: ANSI/TIA-222 Rev G
 Struct Class : II
 Exposure Category : B
 Topographic Category : 1

Base Elev : 0.000 (ft)



Base Summary

Reactions

| Original Design | | | Analysis | | | Moment Design % |
|-----------------|-------------|-------------|-----------------|-------------|-------------|-----------------|
| Moment (kip-ft) | Axial (kip) | Shear (kip) | Moment (kip-ft) | Axial (kip) | Shear (kip) | |
| 3,309.00 | 30.80 | 32.20 | 3,366.76 | 103.98 | 32.07 | 101.75 |

Base Plate

| Yield (ksi) | Thick (in) | Width (in) | Style | Poly Sides | Clip Len (in) | Effective Len (in) | Mu (kip-in) | Phi Mn (kip-in) | Ratio |
|-------------|------------|------------|-------|------------|---------------|--------------------|-------------|-----------------|-------|
| 60.0 | 2.000 | 65.000 | Round | 12 | 0.00 | 10.048 | 639.68 | 542.60 | 1.18 |

Anchor Bolts

| Bolt Circle | Num Bolts | Bolt Type | Bolt Dia (in) | Yield (ksi) | Ultimate (ksi) | Arrange | Cluster Dist (in) | Start Angle (deg) | Compression | | | Tension | | |
|-------------|-----------|-----------|---------------|-------------|----------------|---------|-------------------|-------------------|-------------|-------------|-------|-------------|-------------|-------|
| | | | | | | | | | Force (kip) | Allow (kip) | Ratio | Force (kip) | Allow (kip) | Ratio |
| 59.00 | 16 | 2.25" 18J | 2.25 | 75.00 | 100.00 | Radial | 0.00 | 0.0 | 177.69 | 260.00 | 0.70 | 164.69 | 260.00 | 0.65 |

