

# EXHIBIT 4

July 8, 2022



Centerline Communications  
750 West Center Street, Suite #301  
West Bridgewater, MA 02379

RE:     Site Number:             CT2133  
          FA Number:             10034995  
          PACE Number:         MRCTB054542  
          PT Number:            2051A11KMV  
          Site Name:             DANBURY- MOSES MTN.  
          Site Address:         Moses Mountain  
                                      Danbury, CT 06810

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by Centerline Communications to perform a mount analysis on the existing AT&T antenna/RRH mounts to determine their capability of supporting the following additional loading:

- (3) EPBQ-654L8H6-L2 Antennas (73.0"x21.0"x6.3" – Wt. = 73 lbs. /each)
- (3) 4478 B14 RRH's (18.1"x13.4"x8.3" – Wt. = 60 lbs. /each)
- (3) RRUS-32 B2 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each)
- (3) 4426 B66 RRH's (14.9"x13.2"x5.8" – Wt. = 49 lbs. /each)
- (3) RRUS-32 B30 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each)
- (2) DC6-48-60-18-8F Surge Arrestors (31.4"x10.2" Ø – Wt. = 33 lbs. /each)
- **(3) AIR6419 Antennas (31.1"x16.1"x7.3" – Wt. = 66 lbs. /each)**
- **(3) AIR6449 Antennas (30.6"x15.9"x10.6" – Wt. = 82 lbs. /each)**
- **(3) OPA65R-BU6DA Antennas (71.1"x11.7"x8.4" – Wt. = 58 lbs. /each)**
- **(3) 4449 B5/B12 RRH's (17.9"x13.2"x9.4" – Wt. = 73 lbs. /each)**
- **(1) DC9-48-60-24-8C-EV Surge Arrestor (24.0"x9.7" Ø – Wt. = 33 lbs.)**

*\*Proposed equipment shown in bold.*

No original structural design documents or fabrication drawings were available for the existing mounts. HDG's subconsultant, ProVertic LLC, conducted a survey climb and mapping of the existing AT&T antenna mounts on April 12, 2012.

Mount Analysis Methods:

- This analysis was conducted in accordance with EIA/TIA-222-H, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, the International Building Code 2015 with 2018 Connecticut State Building Code, and AT&T Mount Technical Directive – R16.
- HDG considers this mount to be asymmetrical and has applied wind loads in 30 degree increments all around the mount. Per TIA-222-H and Appendix N of the Connecticut State Building Code, the max basic wind speed for this site is equal to 120 mph with a max basic wind speed with ice of 50 mph and a max ice thickness of 1.0 in. An escalated ice thickness of 1.34 in was used for this analysis.
- HDG considers this site to be exposure category B; tower is located in an urban/suburban or wooded area with numerous closely spaced obstructions.
- HDG considers this site to be topographic category 3; tower is located at the upper half of a hill.
- HDG considers this site to have a spectral response acceleration parameter at short periods,  $S_s$ , of 0.217 and a spectral response acceleration parameter at a period of 1 second,  $S_1$ , of 0.067.
- The mounts have been analyzed with load combinations consisting of 500 lbs live load using a service wind speed of 30 mph wind on the worst case antenna. Analysis performed on each antenna pipe to determine worst case location; worst case location was antenna position 2.
- The mounts have been analyzed with load combinations consisting of a 250 lbs live load in a worst case location on the mount.
- The existing mounts are secured to the existing self-supporting tower with threaded rods and sandwiching the existing horizontals with W-Beams. HDG considers the threaded rods as the governing connection members.

Based on our evaluation, we have determined that the existing mounts **ARE NOT CAPABLE** of supporting the proposed installation. HDG recommends the following modifications:

- **Install new 2-1/2" xx-strong (2.88" O.D.) antenna pipe mast secured to the existing mount face (typ. of 2 per sector, total of 6).**
- **Remove existing W-beams and install new 6x20 W-beam secured to the existing vertical mounting pipe and tower face (typ. of 2 per sector, total of 6) (see pictures 1 & 2 on page 6).**
- **Remove existing T2L angles and install new 6x20 W-beam secured to the existing vertical mounting pipe and tower face (typ. of 2 per sector, total of 6) (see pictures 1 & 2 on page 6).**
- **Install new 6x20 W-beam secured to the proposed antenna pipe mast and tower face (typ. of 8 per sector, total of 24).**

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
<b>Existing Mount Rating</b>	33	LC19	261%	<b>FAIL</b>
<b>Modified Mount Rating</b>	33	LC19	67%	<b>PASS</b>

Reference Documents:

- Mount mapping report prepared by ProVertic LLC.

This determination was based on the following limitations and assumptions:

1. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
2. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. The existing mounts will be adequately secured to the tower structure per the mount manufacturer's specifications.
5. All components pertaining to AT&T's mounts must be tightened and re-plumbed prior to the installation of new appurtenances.
6. HDG performed a localized analysis on the mount itself and not on the supporting tower structure.

Please feel free to contact our office should you have any questions.

Respectfully Submitted,  
Hudson Design Group LLC

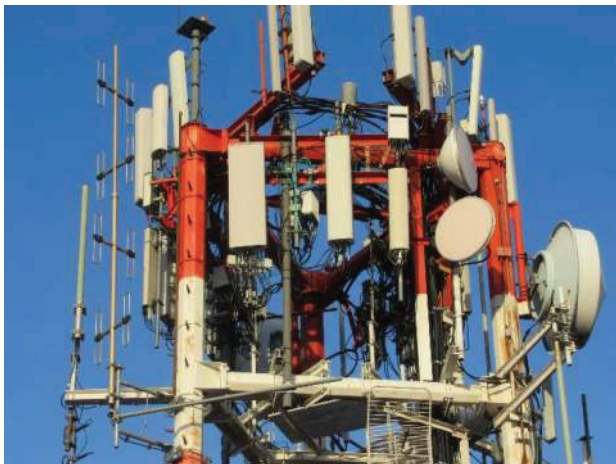
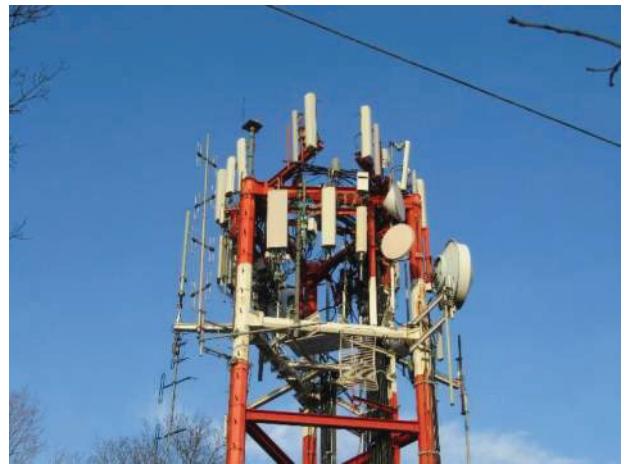


Michael Cabral  
Vice President



Daniel P. Hamm, PE  
Principal

FIELD PHOTOS:



FIELD PHOTOS (CONT.):



FIELD PHOTOS (CONT.):





**HUDSON**  
Design Group LLC

**Wind & Ice  
Calculations**



Date: 7/7/2022  
 Project Name: DANBURY- MOSES MTN.  
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 Designed By: KM Checked By: MSC



**2.6.5.2 Velocity Pressure Coeff:**

$K_z = 2.01 (z/z_g)^{2/\alpha}$

**K<sub>z</sub> = 0.854**

z = 60 (ft)  
 z<sub>g</sub> = 1200 (ft)  
 α = 7

$K_{zmin} \leq K_z \leq 2.01$

**Table 2-4**

Exposure	Z <sub>g</sub>	α	K <sub>zmin</sub>	K <sub>c</sub>
B	1200 ft	7.0	0.70	0.9
C	900 ft	9.5	0.85	1.0
D	700 ft	11.5	1.03	1.1

**2.6.6.2 Topographic Factor:**

**Table 2-5**

Topo. Category	K <sub>t</sub>	f
2	0.43	1.25
3	0.53	2.0
4	0.72	1.5

$K_{zt} = [1 + (K_c K_t / K_h)]^2$

**K<sub>zt</sub> = 1.902658326**

*(If Category 1 then K<sub>zt</sub>=1.0)*

**Category = 3**

$K_h = e^{(fz/H)}$

K<sub>h</sub> = 1.2573516  
 K<sub>c</sub> = 0.9 (from Table 2-4)  
 K<sub>t</sub> = 0.53 (from Table 2-5)  
 f = 2 (from Table 2-5)  
 z = 60  
 z<sub>s</sub> = 984 (Mean elevation of base of structure above se  
 H = 524 (Ht. of the crest above surrounding terrain)  
 K<sub>zt</sub> = 1.90 (from 2.6.6.2.1)  
 K<sub>e</sub> = 0.97 (from 2.6.8)

**2.6.10 Design Ice Thickness**

Max Ice Thickness =  
 Importance Factor =

t<sub>i</sub> = 1.00 in  
 I = 1.00 (from Table 2-3)  
 K<sub>iz</sub> = 1.06 (from Sec. 2.6.10)

$t_{iz} = t_i * I * K_{iz} * (K_{zt})^{0.35}$

t<sub>iz</sub> = 1.33 in

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**2.6.9 Gust Effect Factor**

2.6.9.1 Self Supporting Lattice Structures

G<sub>h</sub> = 1.0 Latticed Structures > 600 ft

G<sub>h</sub> = 0.85 Latticed Structures 450 ft or less

G<sub>h</sub> = 0.85 + 0.15 [h/150 - 3.0]

h= ht. of structure

h= 70

G<sub>h</sub>= 0.85

2.6.9.2 Guyed Masts

G<sub>h</sub>= 0.85

2.6.9.3 Pole Structures

G<sub>h</sub>= 1.1

2.6.9 Appurtenances

G<sub>h</sub>= 1.0

2.6.9.4 Structures Supported on Other Structures

(Cantilevered tubular or latticed spines, pole, structures on buildings (ht. : width ratio > 5)

G<sub>h</sub>= 1.35

G<sub>h</sub>= 1.00

2.6.11.2 Design Wind Force on Appurtenances

**F= q<sub>z</sub>\*G<sub>h</sub>\*(EPA)<sub>A</sub>**

q<sub>z</sub>= 0.00256\*K<sub>z</sub>\*K<sub>zt</sub>\*K<sub>s</sub>\*K<sub>e</sub>\*K<sub>d</sub>\*V<sub>max</sub><sup>2</sup>

K<sub>z</sub>= 0.854 (from 2.6.5.2)

K<sub>zt</sub>= 1.9 (from 2.6.6.2.1)

K<sub>s</sub>= 1.0 (from 2.6.7)

K<sub>e</sub>= 0.97 (from 2.6.8)

K<sub>d</sub>= 0.85 (from Table 2-2)

V<sub>max</sub>= 120 mph (Ultimate Wind Speed)

V<sub>max (ice)</sub>= 50 mph

V<sub>30</sub>= 30 mph

q <sub>z</sub> =	<b>49.13</b>
q <sub>z (ice)</sub> =	<b>8.53</b>
q <sub>z (30)</sub> =	<b>3.07</b>

**Table 2-2**

Structure Type	Wind Direction Probability Factor, K <sub>d</sub>
Latticed structures with triangular, square or rectangular cross sections	0.85
Tubular pole structures, latticed structures with other cross sections, appurtenances	0.95
Tubular pole structures supporting antennas enclosed within a cylindrical shroud	1.00

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**Determine Ca:**

**Table 2-9**

Force Coefficients (Ca) for Appurtenances				
Member Type		Aspect Ratio ≤ 2.5	Aspect Ratio = 7	Aspect Ratio ≥ 25
		Ca	Ca	Ca
Flat		1.2	1.4	2.0
Square/Rectangular HSS		1.2 - 2.8(r <sub>s</sub> ) ≥ 0.85	1.4 - 4.0(r <sub>s</sub> ) ≥ 0.90	2.0 - 6.0(r <sub>s</sub> ) ≥ 1.25
Round	C < 39 (Subcritical)	0.7	0.8	1.2
	39 ≤ C ≤ 78 (Transitional)	4.14/(C <sup>0.485</sup> )	3.66/(C <sup>0.415</sup> )	46.8/(C <sup>1.0</sup> )
	C > 78 (Supercritical)	0.5	0.6	0.6

Aspect Ratio is the overall length/width ratio in the plane normal to the wind direction.  
 (Aspect ratio is independent of the spacing between support points of a linear appurtenance.)

Note: Linear interpolation may be used for aspect ratios other than those shown.

Ice Thickness = **1.33 in**      Angle = **0 (deg)**      Equivalent Angle = **180 (deg)**

Appurtenances	Height	Width	Depth	Flat Area	Aspect Ratio	Ca	Force (lbs)	Force (lbs) (w/ Ice)	Force (lbs) (30 mph)
EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.48	1.24	650	132	41
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.93	1.20	205	45	13
AIR6449 Antenna	30.6	15.9	10.6	3.38	1.92	1.20	199	44	12
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	6.08	1.36	386	85	24
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	2.25	1.20	135	31	8
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	0.00	1.20	0	6	0
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.36	1.20	97	23	6
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	0.00	1.20	34	11	2
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	2.25	1.20	135	31	8
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	3.89	1.26	82	22	5
4426 B66 RRH	14.9	13.2	5.8	1.37	1.13	1.20	81	20	5
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	2.57	1.20	35	11	2
4478 B14 RRH	18.1	13.4	8.3	1.68	1.35	1.20	99	24	6
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	0.00	1.20	31	10	2

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<u>Appurtenances</u>	<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Flat Area</u>	<u>Aspect Ratio</u>	<u>Ca</u>	<u>Force (lbs)</u>	<u>Force (lbs) (w/ Ice)</u>	<u>Force (lbs) (30 mph)</u>
Surge Arrestor	24.0	9.7	9.7	1.62	2.47	0.70	56	14	3
W6x20 Beam	6.0	12.0	-	0.50	0.50	1.25	31		
W5x16 Beam	5.0	12.0	-	0.42	0.42	1.25	26		
L 5x5 Angle	5.0	12.0	-	0.42	0.42	1.25	26		
L 2-1/2x2-1/2 Angle	2.5	12.0	-	0.21	0.21	1.25	13		
4" Pipe	4.5	12.0	-	0.38	0.38	1.20	22		
2-1/2" Pipe	2.9	12.0	-	0.24	0.24	1.20	14		
2" Pipe	2.4	12.0	-	0.20	0.20	1.20	12		

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**WIND LOADS**

Angle = **30** (deg)

Ice Thickness = **1.33** in.

Equivalent Angle = **210** (deg)

**WIND LOADS WITH NO ICE:**

Appurtenances	Height	Width	Depth	Flat Area (normal)	Flat Area (side)	Aspect Ratio	Aspect Ratio	Ca (normal)	Ca (side)	Force (lbs)	Force (lbs)	Force (lbs)
EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	650	244	549
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	205	99	179
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	199	135	183
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	386	295	363
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	122
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	82	20
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	97	69	90
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	34	97	50
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	122
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	82	135	95
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	81	35	69
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	35	81	47
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	99	62	90
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	31	99	48

**WIND LOADS WITH ICE:**

EPBQ-654L8H6-L2 Antenna	75.7	23.7	9.0	12.43	4.71	3.20	8.44	1.23	1.45	131	58	112
AIR6419 Antenna	33.8	18.8	10.0	4.40	2.33	1.80	3.39	1.20	1.24	45	25	40
AIR6449 Antenna	33.3	18.6	13.3	4.29	3.06	1.79	2.51	1.20	1.20	44	31	41
OPA65R-BU6DA Antenna	73.8	14.4	11.1	7.36	5.66	5.14	6.67	1.32	1.39	83	67	79
RRUS-32 B2 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	29
RRUS-32 B2 RRH (Shielded)	29.9	2.7	9.7	0.55	2.00	11.23	3.09	1.54	1.23	7	21	11
4449 B5/B12 RRH	20.6	15.9	12.1	2.26	1.72	1.30	1.70	1.20	1.20	23	18	22
4449 B5/B12 RRH (Side)	20.6	7.4	15.9	1.05	2.26	2.79	1.30	1.21	1.20	11	23	14
RRUS-32 B30 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	29
RRUS-32 B30 RRH (Side)	29.9	9.7	14.8	2.00	3.06	3.09	2.02	1.23	1.20	21	31	24
4426 B66 RRH	17.6	15.9	8.5	1.93	1.03	1.11	2.08	1.20	1.20	20	11	17
4426 B66 RRH (Side)	17.6	8.5	15.9	1.03	1.93	2.08	1.11	1.20	1.20	11	20	13
4478 B14 RRH	20.8	16.1	11.0	2.32	1.58	1.29	1.89	1.20	1.20	24	16	22
4478 B14 RRH (Side)	20.8	6.8	16.1	0.98	2.32	3.05	1.29	1.22	1.20	10	24	14

**WIND LOADS AT 30 MPH:**

EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	41	15	34
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	13	6	11
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	12	8	11
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	24	18	23
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	8
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	5	1
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	6	4	6
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	2	6	3
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	8
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	5	8	6
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	5	2	4
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	2	5	3
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	6	4	6
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	2	6	3

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WIND LOADS

Angle = 60 (deg)

Ice Thickness = 1.33 in.

Equivalent Angle = 240 (deg)

WIND LOADS WITH NO ICE:

Appurtenances	Height	Width	Depth	Flat Area (normal)	Flat Area (side)	Ratio (normal)	Ratio (side)	Ca (normal)	Ca (side)	Force (lbs)	Force (lbs)	Force (lbs)
EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	650	244	345
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	205	99	126
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	199	135	151
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	386	295	318
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	95
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	82	61
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	97	69	76
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	34	97	81
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	95
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	82	135	122
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	81	35	47
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	35	81	69
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	99	62	71
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	31	99	82

WIND LOADS WITH ICE:

EPBQ-654L8H6-L2 Antenna	75.7	23.7	9.0	12.43	4.71	3.20	8.44	1.23	1.45	131	58	76
AIR6419 Antenna	33.8	18.8	10.0	4.40	2.33	1.80	3.39	1.20	1.24	45	25	30
AIR6449 Antenna	33.3	18.6	13.3	4.29	3.06	1.79	2.51	1.20	1.20	44	31	34
OPA65R-BU6DA Antenna	73.8	14.4	11.1	7.36	5.66	5.14	6.67	1.32	1.39	83	67	71
RRUS-32 B2 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	24
RRUS-32 B2 RRH (Shielded)	29.9	2.7	9.7	0.55	2.00	11.23	3.09	1.54	1.23	7	21	18
4449 B5/B12 RRH	20.6	15.9	12.1	2.26	1.72	1.30	1.70	1.20	1.20	23	18	19
4449 B5/B12 RRH (Side)	20.6	7.4	15.9	1.05	2.26	2.79	1.30	1.21	1.20	11	23	20
RRUS-32 B30 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	24
RRUS-32 B30 RRH (Side)	29.9	9.7	14.8	2.00	3.06	3.09	2.02	1.23	1.20	21	31	29
4426 B66 RRH	17.6	15.9	8.5	1.93	1.03	1.11	2.08	1.20	1.20	20	11	13
4426 B66 RRH (Side)	17.6	8.5	15.9	1.03	1.93	2.08	1.11	1.20	1.20	11	20	17
4478 B14 RRH	20.8	16.1	11.0	2.32	1.58	1.29	1.89	1.20	1.20	24	16	18
4478 B14 RRH (Side)	20.8	6.8	16.1	0.98	2.32	3.05	1.29	1.22	1.20	10	24	20

WIND LOADS AT 30 MPH:

EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	41	15	22
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	13	6	8
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	12	8	9
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	24	18	20
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	6
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	5	4
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	6	4	5
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	2	6	5
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	6
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	5	8	8
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	5	2	3
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	2	5	4
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	6	4	4
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	2	6	5

Date: 7/7/2022  
 Project Name: DANBURY - MOSES MTN.  
 Project No.: CT2133  
 Designed By: KM Checked By: MSC



**WIND LOADS**

Angle = 90 (deg)

Ice Thickness = 1.33 in.

Equivalent Angle = 270 (deg)

**WIND LOADS WITH NO ICE:**

Appurtenances	Height	Width	Depth	Flat Area (normal)	Flat Area (side)	Ratio (normal)	Ratio (side)	Ca (normal)	Ca (side)	Force (lbs)	Force (lbs)	Force (lbs)
EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	650	244	244
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	205	99	99
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	199	135	135
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	386	295	295
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	82
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	82	82
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	97	69	69
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	34	97	97
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	82
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	82	135	135
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	81	35	35
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	35	81	81
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	99	62	62
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	31	99	99

**WIND LOADS WITH ICE:**

EPBQ-654L8H6-L2 Antenna	75.7	23.7	9.0	12.43	4.71	3.20	8.44	1.23	1.45	131	58	58
AIR6419 Antenna	33.8	18.8	10.0	4.40	2.33	1.80	3.39	1.20	1.24	45	25	25
AIR6449 Antenna	33.3	18.6	13.3	4.29	3.06	1.79	2.51	1.20	1.20	44	31	31
OPA65R-BU6DA Antenna	73.8	14.4	11.1	7.36	5.66	5.14	6.67	1.32	1.39	83	67	67
RRUS-32 B2 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	21
RRUS-32 B2 RRH (Shielded)	29.9	2.7	9.7	0.55	2.00	11.23	3.09	1.54	1.23	7	21	21
4449 B5/B12 RRH	20.6	15.9	12.1	2.26	1.72	1.30	1.70	1.20	1.20	23	18	18
4449 B5/B12 RRH (Side)	20.6	7.4	15.9	1.05	2.26	2.79	1.30	1.21	1.20	11	23	23
RRUS-32 B30 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	21
RRUS-32 B30 RRH (Side)	29.9	9.7	14.8	2.00	3.06	3.09	2.02	1.23	1.20	21	31	31
4426 B66 RRH	17.6	15.9	8.5	1.93	1.03	1.11	2.08	1.20	1.20	20	11	11
4426 B66 RRH (Side)	17.6	8.5	15.9	1.03	1.93	2.08	1.11	1.20	1.20	11	20	20
4478 B14 RRH	20.8	16.1	11.0	2.32	1.58	1.29	1.89	1.20	1.20	24	16	16
4478 B14 RRH (Side)	20.8	6.8	16.1	0.98	2.32	3.05	1.29	1.22	1.20	10	24	24

**WIND LOADS AT 30 MPH:**

EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	41	15	15
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	13	6	6
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	12	8	8
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	24	18	18
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	5
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	5	5
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	6	4	4
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	2	6	6
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	5
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	5	8	8
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	5	2	2
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	2	5	5
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	6	4	4
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	2	6	6

Date: 7/7/2022  
 Project Name: DANBURY - MOSES MTN.  
 Project No.: CT2133  
 Designed By: KM Checked By: MSC



**WIND LOADS**

Angle = 120 (deg)

Ice Thickness = 1.33 in.

Equivalent Angle = 300 (deg)

**WIND LOADS WITH NO ICE:**

Appurtenances	Height	Width	Depth	Flat Area (normal)	Flat Area (side)	Ratio (normal)	Ratio (side)	Ca (normal)	Ca (side)	Force (lbs)	Force (lbs)	Force (lbs)
EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	650	244	345
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	205	99	126
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	199	135	151
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	386	295	318
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	95
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	82	61
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	97	69	76
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	34	97	81
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	95
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	82	135	122
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	81	35	47
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	35	81	69
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	99	62	71
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	31	99	82

**WIND LOADS WITH ICE:**

EPBQ-654L8H6-L2 Antenna	75.7	23.7	9.0	12.43	4.71	3.20	8.44	1.23	1.45	131	58	76
AIR6419 Antenna	33.8	18.8	10.0	4.40	2.33	1.80	3.39	1.20	1.24	45	25	30
AIR6449 Antenna	33.3	18.6	13.3	4.29	3.06	1.79	2.51	1.20	1.20	44	31	34
OPA65R-BU6DA Antenna	73.8	14.4	11.1	7.36	5.66	5.14	6.67	1.32	1.39	83	67	71
RRUS-32 B2 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	24
RRUS-32 B2 RRH (Shielded)	29.9	2.7	9.7	0.55	2.00	11.23	3.09	1.54	1.23	7	21	18
4449 B5/B12 RRH	20.6	15.9	12.1	2.26	1.72	1.30	1.70	1.20	1.20	23	18	19
4449 B5/B12 RRH (Side)	20.6	7.4	15.9	1.05	2.26	2.79	1.30	1.21	1.20	11	23	20
RRUS-32 B30 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	24
RRUS-32 B30 RRH (Side)	29.9	9.7	14.8	2.00	3.06	3.09	2.02	1.23	1.20	21	31	29
4426 B66 RRH	17.6	15.9	8.5	1.93	1.03	1.11	2.08	1.20	1.20	20	11	13
4426 B66 RRH (Side)	17.6	8.5	15.9	1.03	1.93	2.08	1.11	1.20	1.20	11	20	17
4478 B14 RRH	20.8	16.1	11.0	2.32	1.58	1.29	1.89	1.20	1.20	24	16	18
4478 B14 RRH (Side)	20.8	6.8	16.1	0.98	2.32	3.05	1.29	1.22	1.20	10	24	20

**WIND LOADS AT 30 MPH:**

EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	41	15	22
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	13	6	8
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	12	8	9
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	24	18	20
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	6
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	5	4
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	6	4	5
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	2	6	5
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	6
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	5	8	8
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	5	2	3
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	2	5	4
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	6	4	4
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	2	6	5



Date: 7/7/2022  
 Project Name: DANBURY - MOSES MTN.  
 Project No.: CT2133  
 Designed By: KM Checked By: MSC



**WIND LOADS**

Angle = 150 (deg)

Ice Thickness = 1.33 in.

Equivalent Angle = 330 (deg)

**WIND LOADS WITH NO ICE:**

Appurtenances	Height	Width	Depth	Flat Area (normal)	Flat Area (side)	Ratio (normal)	Ratio (side)	Ca (normal)	Ca (side)	Force (lbs)	Force (lbs)	Force (lbs)
EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	650	244	549
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	205	99	179
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	199	135	183
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	386	295	363
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	122
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	82	20
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	97	69	90
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	34	97	50
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	135	82	122
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	82	135	95
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	81	35	69
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	35	81	47
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	99	62	90
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	31	99	48

**WIND LOADS WITH ICE:**

EPBQ-654L8H6-L2 Antenna	75.7	23.7	9.0	12.43	4.71	3.20	8.44	1.23	1.45	131	58	112
AIR6419 Antenna	33.8	18.8	10.0	4.40	2.33	1.80	3.39	1.20	1.24	45	25	40
AIR6449 Antenna	33.3	18.6	13.3	4.29	3.06	1.79	2.51	1.20	1.20	44	31	41
OPA65R-BU6DA Antenna	73.8	14.4	11.1	7.36	5.66	5.14	6.67	1.32	1.39	83	67	79
RRUS-32 B2 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	29
RRUS-32 B2 RRH (Shielded)	29.9	2.7	9.7	0.55	2.00	11.23	3.09	1.54	1.23	7	21	11
4449 B5/B12 RRH	20.6	15.9	12.1	2.26	1.72	1.30	1.70	1.20	1.20	23	18	22
4449 B5/B12 RRH (Side)	20.6	7.4	15.9	1.05	2.26	2.79	1.30	1.21	1.20	11	23	14
RRUS-32 B30 RRH	29.9	14.8	9.7	3.06	2.00	2.02	3.09	1.20	1.23	31	21	29
RRUS-32 B30 RRH (Side)	29.9	9.7	14.8	2.00	3.06	3.09	2.02	1.23	1.20	21	31	24
4426 B66 RRH	17.6	15.9	8.5	1.93	1.03	1.11	2.08	1.20	1.20	20	11	17
4426 B66 RRH (Side)	17.6	8.5	15.9	1.03	1.93	2.08	1.11	1.20	1.20	11	20	13
4478 B14 RRH	20.8	16.1	11.0	2.32	1.58	1.29	1.89	1.20	1.20	24	16	22
4478 B14 RRH (Side)	20.8	6.8	16.1	0.98	2.32	3.05	1.29	1.22	1.20	10	24	14

**WIND LOADS AT 30 MPH:**

EPBQ-654L8H6-L2 Antenna	73.0	21.0	6.3	10.65	3.19	3.48	11.59	1.24	1.55	41	15	34
AIR6419 Antenna	31.1	16.1	7.3	3.48	1.58	1.93	4.26	1.20	1.28	13	6	11
AIR6449 Antenna	30.6	15.9	10.6	3.38	2.25	1.92	2.89	1.20	1.22	12	8	11
OPA65R-BU6DA Antenna	71.1	11.7	8.4	5.78	4.15	6.08	8.46	1.36	1.45	24	18	23
RRUS-32 B2 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	8
RRUS-32 B2 RRH (Shielded)	27.2	0.0	7.0	0.00	1.32	0.00	3.89	1.20	1.26	0	5	1
4449 B5/B12 RRH	17.9	13.2	9.4	1.64	1.17	1.36	1.90	1.20	1.20	6	4	6
4449 B5/B12 RRH (Side)	17.9	4.7	13.2	0.58	1.64	0.00	1.36	1.20	1.20	2	6	3
RRUS-32 B30 RRH	27.2	12.1	7.0	2.29	1.32	2.25	3.89	1.20	1.26	8	5	8
RRUS-32 B30 RRH (Side)	27.2	7.0	12.1	1.32	2.29	3.89	2.25	1.26	1.20	5	8	6
4426 B66 RRH	14.9	13.2	5.8	1.37	0.60	1.13	2.57	1.20	1.20	5	2	4
4426 B66 RRH (Side)	14.9	5.8	13.2	0.60	1.37	2.57	1.13	1.20	1.20	2	5	3
4478 B14 RRH	18.1	13.4	8.3	1.68	1.04	1.35	2.18	1.20	1.20	6	4	6
4478 B14 RRH (Side)	18.1	4.2	13.4	0.52	1.68	0.00	1.35	1.20	1.20	2	6	3

Date: 7/7/2022

Project Name: DANBURY- MOSES MTN.

Project No.: CT2133

Designed By: KM Checked By: MSC



### ICE WEIGHT CALCULATIONS

Thickness of ice: 1.33 in.  
Density of ice: 56 pcf

#### EPBQ-654L8H6-L2 Antenna

Weight of ice based on total radial SF area:  
Height (in): 73.0  
Width (in): 21.0  
Depth (in): 6.3  
Total weight of ice on object: 230 lbs  
Weight of object: 73.0 lbs  
Combined weight of ice and object: 303 lbs

#### AIR6419 Antenna

Weight of ice based on total radial SF area:  
Height (in): 31.1  
Width (in): 16.1  
Depth (in): 7.3  
Total weight of ice on object: 80 lbs  
Weight of object: 66.0 lbs  
Combined weight of ice and object: 146 lbs

#### AIR6449 Antenna

Weight of ice based on total radial SF area:  
Height (in): 30.6  
Width (in): 15.9  
Depth (in): 10.6  
Total weight of ice on object: 85 lbs  
Weight of object: 82.0 lbs  
Combined weight of ice and object: 167 lbs

#### OPA65R-BU6DA Antenna

Weight of ice based on total radial SF area:  
Height (in): 71.1  
Width (in): 11.7  
Depth (in): 8.4  
Total weight of ice on object: 151 lbs  
Weight of object: 58.0 lbs  
Combined weight of ice and object: 209 lbs

#### RRUS-32 B2 RRH

Weight of ice based on total radial SF area:  
Height (in): 27.2  
Width (in): 12.1  
Depth (in): 7.0  
Total weight of ice on object: 56 lbs  
Weight of object: 60.0 lbs  
Combined weight of ice and object: 116 lbs

#### 4449 B5/B12 RRH

Weight of ice based on total radial SF area:  
Height (in): 17.9  
Width (in): 13.2  
Depth (in): 9.4  
Total weight of ice on object: 43 lbs  
Weight of object: 73.0 lbs  
Combined weight of ice and object: 116 lbs

#### RRUS-32 B30 RRH

Weight of ice based on total radial SF area:  
Height (in): 27.2  
Width (in): 12.1  
Depth (in): 7.0  
Total weight of ice on object: 56 lbs  
Weight of object: 60.0 lbs  
Combined weight of ice and object: 116 lbs

#### 4426 B66 RRH

Weight of ice based on total radial SF area:  
Height (in): 14.9  
Width (in): 13.2  
Depth (in): 5.8  
Total weight of ice on object: 32 lbs  
Weight of object: 49.0 lbs  
Combined weight of ice and object: 81 lbs

Date: 7/7/2022

Project Name: DANBURY- MOSES MTN.

Project No.: CT2133

Designed By: KM Checked By: MSC



#### 4478 B14 RRH

Weight of ice based on total radial SF area:

Height (in): 18.1

Width (in): 13.4

Depth (in): 8.3

Total weight of ice on object: 42 lbs

Weight of object: 60.0 lbs

Combined weight of ice and object: 102 lbs

#### Surge Arrestor

Weight of ice based on total radial SF area:

Depth (in): 24.0

Diameter(in): 9.7

Total weight of ice on object: 36 lbs

Weight of object: 33 lbs

Combined weight of ice and object: 69 lbs

#### W 6x20

Weight of ice based on total radial SF area:

Height (in): 6.2

Width (in): 6

Per foot weight of ice on object: 16 plf

#### W 5x16

Weight of ice based on total radial SF area:

Height (in): 5

Width (in): 5

Per foot weight of ice on object: 14 plf

#### L 5x5 Angles

Weight of ice based on total radial SF area:

Height (in): 5

Width (in): 5

Per foot weight of ice on object: 14 plf

#### L 2-1/2x2-1/2 Angles

Weight of ice based on total radial SF area:

Height (in): 2.5

Width (in): 2.5

Per foot weight of ice on object: 8 plf

#### 4" Pipe

Per foot weight of ice:

diameter (in): 4.5

Per foot weight of ice on object: 9 plf

#### 2-1/2" pipe

Per foot weight of ice:

diameter (in): 2.88

Per foot weight of ice on object: 7 plf

#### 2" pipe

Per foot weight of ice:

diameter (in): 2.38

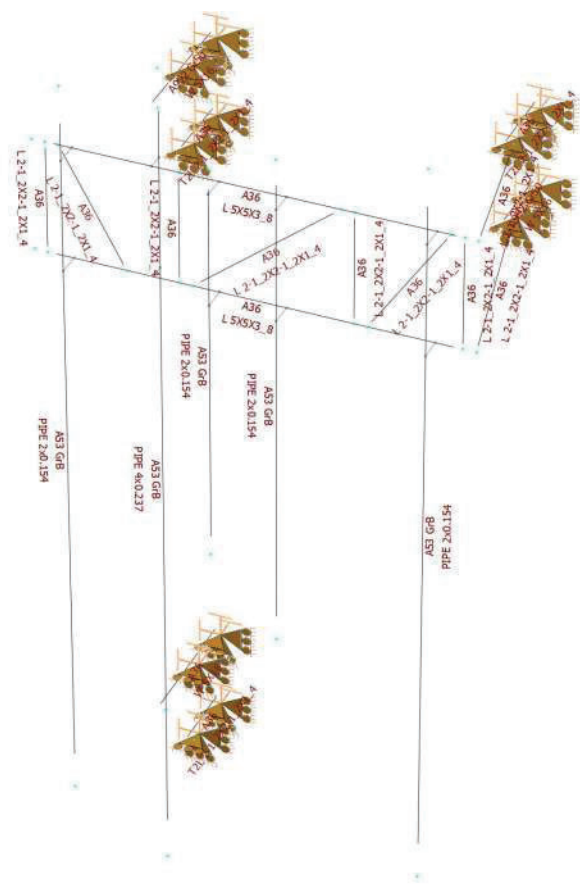
Per foot weight of ice on object: 6 plf



**HUDSON**  
Design Group LLC

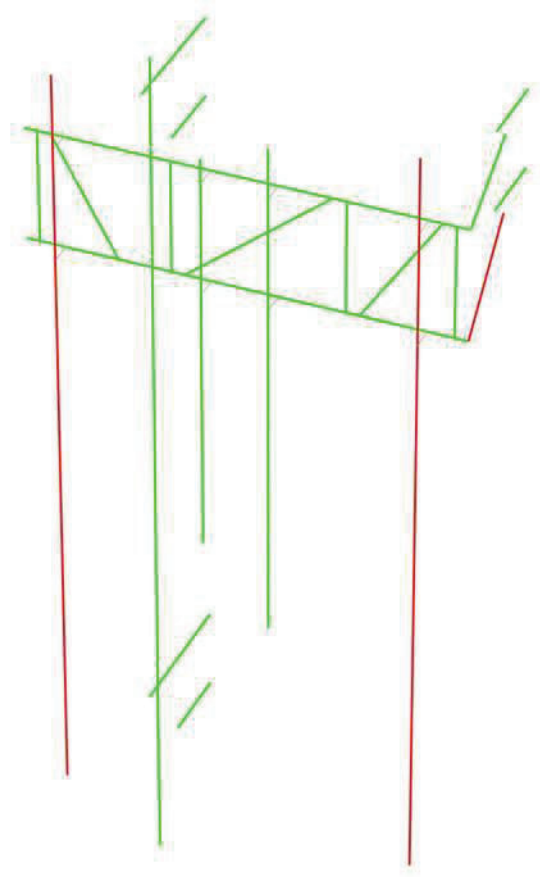
**Mount Calculations  
(Existing Conditions)**

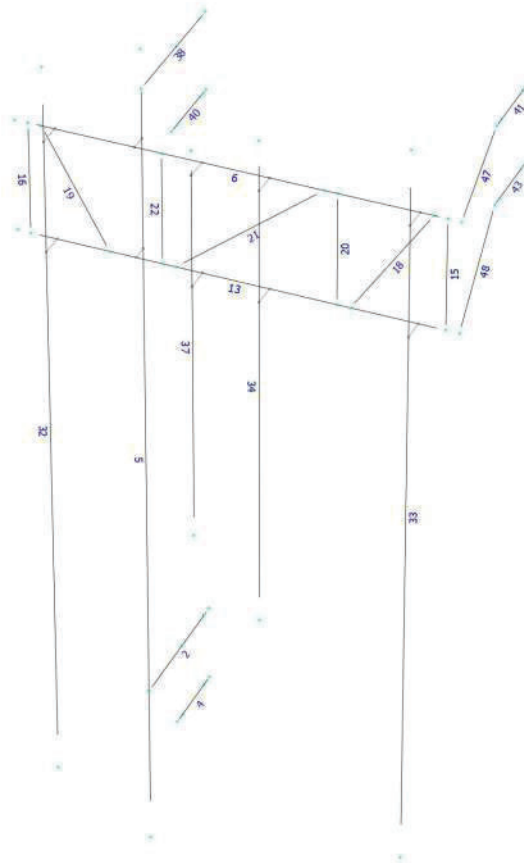




**Design status**

- Not designed
- Error on design
- Design O.K.
- With warnings







## Load data

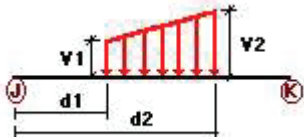
### GLOSSARY

Comb : Indicates if load condition is a load combination

### Load Conditions

Condition	Description	Comb.	Category
D	Dead Load	No	DL
Wo	Wind Load (NO ICE)	No	WIND
W30	WL 30deg	No	WIND
W60	WL 60deg	No	WIND
W90	WL 90deg	No	WIND
W120	WL 120deg	No	WIND
W150	WL 150deg	No	WIND
Di	Ice Load	No	LL
WI0	WL ICE 0deg	No	WIND
WI30	WL ICE 30deg	No	WIND
WI60	WL ICE 60deg	No	WIND
WI90	WL ICE 90deg	No	WIND
WI120	WL ICE 120deg	No	WIND
WI150	WL ICE 150deg	No	WIND
WL0	WL 30 mph 0deg	No	WIND
WL30	WL 30 mph 30deg	No	WIND
WL60	WL 30 mph 60deg	No	WIND
WL90	WL 30 mph 90deg	No	WIND
WL120	WL 30 mph 120deg	No	WIND
WL150	WL 30 mph 150deg	No	WIND
LL1	250 lb Live Load Center of Mount	No	LL
LL2	250 lb Live Load Right End of Mount	No	LL
LL3	250 lb Live Load Left End of Mount	No	LL
LLa1	500 lb Live Load Antenna 1	No	LL
LLa2	500 lb Live Load Antenna 2	No	LL
LLa3	500 lb Live Load Antenna 3	No	LL
LLa4	500 lb Live Load Antenna 4	No	LL

### Distributed force on members

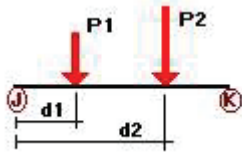


Condition	Member	Dir1	Val1 [Kip/ft]	Val2 [Kip/ft]	Dist1 [ft]	%	Dist2 [ft]	%
Wo	5	z	-0.022	-0.022	0.00	No	100.00	Yes
	6	z	-0.026	-0.026	0.00	No	100.00	Yes
	13	z	-0.026	-0.026	0.00	No	100.00	Yes
	15	z	-0.013	-0.013	0.00	No	100.00	Yes
	16	z	-0.013	-0.013	0.00	No	100.00	Yes
	18	z	-0.013	-0.013	0.00	No	100.00	Yes
	19	z	-0.013	-0.013	0.00	No	100.00	Yes
	20	z	-0.013	-0.013	0.00	No	100.00	Yes
	21	z	-0.013	-0.013	0.00	No	100.00	Yes
	22	z	-0.013	-0.013	0.00	No	100.00	Yes
	32	z	-0.012	-0.012	0.00	No	100.00	Yes
	33	z	-0.012	-0.012	0.00	No	100.00	Yes
	34	z	-0.012	-0.012	0.00	No	100.00	Yes
	37	z	-0.012	-0.012	0.00	No	100.00	Yes
	40	z	-0.013	-0.013	0.00	No	100.00	Yes
	47	z	-0.013	-0.013	0.00	No	100.00	Yes
48	z	-0.013	-0.013	0.00	No	100.00	Yes	
W30	2	z	-0.026	-0.026	0.00	No	100.00	Yes
	4	z	-0.013	-0.013	0.00	No	100.00	Yes
	5	z	-0.022	-0.022	0.00	No	100.00	Yes
	6	z	-0.026	-0.026	0.00	No	100.00	Yes
	13	z	-0.026	-0.026	0.00	No	100.00	Yes
	15	z	-0.013	-0.013	0.00	No	100.00	Yes
	16	z	-0.013	-0.013	0.00	No	100.00	Yes
	18	z	-0.013	-0.013	0.00	No	100.00	Yes
	19	z	-0.013	-0.013	0.00	No	100.00	Yes
	20	z	-0.013	-0.013	0.00	No	100.00	Yes
	21	z	-0.013	-0.013	0.00	No	100.00	Yes
	22	z	-0.013	-0.013	0.00	No	100.00	Yes
	32	z	-0.012	-0.012	0.00	No	100.00	Yes
	33	z	-0.012	-0.012	0.00	No	100.00	Yes
	34	z	-0.012	-0.012	0.00	No	100.00	Yes
	37	z	-0.012	-0.012	0.00	No	100.00	Yes
38	z	-0.026	-0.026	0.00	No	100.00	Yes	
40	z	-0.013	-0.013	0.00	No	100.00	Yes	
41	z	-0.013	-0.013	0.00	No	100.00	Yes	
43	z	-0.026	-0.026	0.00	No	100.00	Yes	
47	z	-0.013	-0.013	0.00	No	100.00	Yes	
48	z	-0.013	-0.013	0.00	No	100.00	Yes	
W60	2	x	-0.026	-0.026	0.00	No	100.00	Yes
	4	x	-0.013	-0.013	0.00	No	100.00	Yes
	5	x	-0.022	-0.022	0.00	No	100.00	Yes
	6	x	-0.026	-0.026	0.00	No	100.00	Yes
	13	x	-0.026	-0.026	0.00	No	100.00	Yes
	15	x	-0.013	-0.013	0.00	No	100.00	Yes
	16	x	-0.013	-0.013	0.00	No	100.00	Yes
	18	x	-0.013	-0.013	0.00	No	100.00	Yes
	19	x	-0.013	-0.013	0.00	No	100.00	Yes
	20	x	-0.013	-0.013	0.00	No	100.00	Yes
	21	x	-0.013	-0.013	0.00	No	100.00	Yes
	22	x	-0.013	-0.013	0.00	No	100.00	Yes
	32	x	-0.012	-0.012	0.00	No	100.00	Yes
	33	x	-0.012	-0.012	0.00	No	100.00	Yes
	34	x	-0.012	-0.012	0.00	No	100.00	Yes
	37	x	-0.012	-0.012	0.00	No	100.00	Yes
38	x	-0.026	-0.026	0.00	No	100.00	Yes	
40	x	-0.013	-0.013	0.00	No	100.00	Yes	
41	x	-0.013	-0.013	0.00	No	100.00	Yes	
43	x	-0.026	-0.026	0.00	No	100.00	Yes	
47	x	-0.013	-0.013	0.00	No	100.00	Yes	

W90	48	x	-0.013	-0.013	0.00	No	100.00	Yes
	2	x	-0.026	-0.026	0.00	No	100.00	Yes
	4	x	-0.013	-0.013	0.00	No	100.00	Yes
	5	x	-0.022	-0.022	0.00	No	100.00	Yes
	15	x	-0.013	-0.013	0.00	No	100.00	Yes
	16	x	-0.013	-0.013	0.00	No	100.00	Yes
	18	x	-0.013	-0.013	0.00	No	100.00	Yes
	19	x	-0.013	-0.013	0.00	No	100.00	Yes
	20	x	-0.013	-0.013	0.00	No	100.00	Yes
	21	x	-0.013	-0.013	0.00	No	100.00	Yes
	22	x	-0.013	-0.013	0.00	No	100.00	Yes
	32	x	-0.012	-0.012	0.00	No	100.00	Yes
	33	x	-0.012	-0.012	0.00	No	100.00	Yes
	34	x	-0.012	-0.012	0.00	No	100.00	Yes
	37	x	-0.012	-0.012	0.00	No	100.00	Yes
	38	x	-0.026	-0.026	0.00	No	100.00	Yes
	40	x	-0.013	-0.013	0.00	No	100.00	Yes
	41	x	-0.013	-0.013	0.00	No	100.00	Yes
	43	x	-0.026	-0.026	0.00	No	100.00	Yes
	47	x	-0.013	-0.013	0.00	No	100.00	Yes
W120	48	x	-0.013	-0.013	0.00	No	100.00	Yes
	2	x	-0.026	-0.026	0.00	No	100.00	Yes
	4	x	-0.013	-0.013	0.00	No	100.00	Yes
	5	x	-0.022	-0.022	0.00	No	100.00	Yes
	6	x	-0.026	-0.026	0.00	No	100.00	Yes
	13	x	-0.026	-0.026	0.00	No	100.00	Yes
	15	x	-0.013	-0.013	0.00	No	100.00	Yes
	16	x	-0.013	-0.013	0.00	No	100.00	Yes
	18	x	-0.013	-0.013	0.00	No	100.00	Yes
	19	x	-0.013	-0.013	0.00	No	100.00	Yes
	20	x	-0.013	-0.013	0.00	No	100.00	Yes
	21	x	-0.013	-0.013	0.00	No	100.00	Yes
	22	x	-0.013	-0.013	0.00	No	100.00	Yes
	32	x	-0.012	-0.012	0.00	No	100.00	Yes
	33	x	-0.012	-0.012	0.00	No	100.00	Yes
	34	x	-0.012	-0.012	0.00	No	100.00	Yes
	37	x	-0.012	-0.012	0.00	No	100.00	Yes
	38	x	-0.026	-0.026	0.00	No	100.00	Yes
	40	x	-0.013	-0.013	0.00	No	100.00	Yes
	41	x	-0.013	-0.013	0.00	No	100.00	Yes
43	x	-0.026	-0.026	0.00	No	100.00	Yes	
47	x	-0.013	-0.013	0.00	No	100.00	Yes	
48	x	-0.013	-0.013	0.00	No	100.00	Yes	
W150	2	z	0.026	0.026	0.00	No	100.00	Yes
	4	z	0.013	0.013	0.00	No	100.00	Yes
	5	z	0.022	0.022	0.00	No	100.00	Yes
	6	z	0.026	0.026	0.00	No	100.00	Yes
	13	z	0.026	0.026	0.00	No	100.00	Yes
	15	z	0.013	0.013	0.00	No	100.00	Yes
	16	z	0.013	0.013	0.00	No	100.00	Yes
	18	z	0.013	0.013	0.00	No	100.00	Yes
	19	z	0.013	0.013	0.00	No	100.00	Yes
	20	z	0.013	0.013	0.00	No	100.00	Yes
	21	z	0.013	0.013	0.00	No	100.00	Yes
	22	z	0.013	0.013	0.00	No	100.00	Yes
	32	z	0.012	0.012	0.00	No	100.00	Yes
	33	z	0.012	0.012	0.00	No	100.00	Yes
	34	z	0.012	0.012	0.00	No	100.00	Yes
	37	z	0.012	0.012	0.00	No	100.00	Yes
	38	z	0.026	0.026	0.00	No	100.00	Yes

	40	z	0.013	0.013	0.00	No	100.00	Yes
	41	z	0.013	0.013	0.00	No	100.00	Yes
	43	z	0.026	0.026	0.00	No	100.00	Yes
	47	z	0.013	0.013	0.00	No	100.00	Yes
	48	z	0.013	0.013	0.00	No	100.00	Yes
Di	2	y	-0.014	-0.014	0.00	No	100.00	Yes
	4	y	-0.008	-0.008	0.00	No	100.00	Yes
	5	y	-0.009	-0.009	0.00	No	100.00	Yes
	6	y	-0.014	-0.014	0.00	No	100.00	Yes
	13	y	-0.014	-0.014	0.00	No	100.00	Yes
	15	y	-0.008	-0.008	0.00	No	100.00	Yes
	16	y	-0.008	-0.008	0.00	No	100.00	Yes
	18	y	-0.008	-0.008	0.00	No	100.00	Yes
	19	y	-0.008	-0.008	0.00	No	100.00	Yes
	20	y	-0.008	-0.008	0.00	No	100.00	Yes
	21	y	-0.008	-0.008	0.00	No	100.00	Yes
	22	y	-0.008	-0.008	0.00	No	100.00	Yes
	32	y	-0.006	-0.006	0.00	No	100.00	Yes
	33	y	-0.006	-0.006	0.00	No	100.00	Yes
	34	y	-0.006	-0.006	0.00	No	100.00	Yes
	37	y	-0.006	-0.006	0.00	No	100.00	Yes
	38	y	-0.014	-0.014	0.00	No	100.00	Yes
	40	y	-0.008	-0.008	0.00	No	100.00	Yes
	41	y	-0.008	-0.008	0.00	No	100.00	Yes
	43	y	-0.014	-0.014	0.00	No	100.00	Yes
	47	y	-0.008	-0.008	0.00	No	100.00	Yes
	48	y	-0.008	-0.008	0.00	No	100.00	Yes

### Concentrated forces on members



Condition	Member	Dir1	Value1 [Kip]	Dist1 [ft]	%
D	32	y	-0.029	2.00	No
		y	-0.029	7.00	No
		y	-0.06	5.00	No
		y	-0.06	5.00	No
		y	-0.041	11.00	No
		y	-0.041	13.00	No
	33	y	-0.037	2.00	No
		y	-0.037	7.00	No
		y	-0.033	11.00	No
		y	-0.033	13.00	No
	34	y	-0.06	1.50	No
	37	y	-0.06	4.00	No
		y	-0.049	4.00	No
		y	-0.033	1.00	No
Wo	32	z	-0.193	2.00	No
		z	-0.193	7.00	No
		z	-0.034	5.00	No
		z	-0.031	5.00	No

		z	-0.10	11.00	No
		z	-0.10	13.00	No
	33	z	-0.325	2.00	No
		z	-0.325	7.00	No
		z	-0.103	11.00	No
		z	-0.103	13.00	No
	34	z	-0.135	1.50	No
	37	z	-0.082	4.00	No
		z	-0.035	4.00	No
		z	-0.056	1.00	No
W30	32	3	-0.182	2.00	No
		3	-0.182	7.00	No
		3	-0.05	5.00	No
		3	-0.092	11.00	No
		3	-0.092	13.00	No
	33	3	-0.275	2.00	No
		3	-0.275	7.00	No
		3	-0.09	11.00	No
		3	-0.09	13.00	No
	34	3	-0.122	1.50	No
	37	3	-0.095	4.00	No
		3	-0.056	1.00	No
W60	32	3	-0.159	2.00	No
		3	-0.159	7.00	No
		3	-0.082	5.00	No
		3	-0.076	11.00	No
		3	-0.076	13.00	No
	33	3	-0.173	2.00	No
		3	-0.173	7.00	No
		3	-0.063	11.00	No
		3	-0.063	13.00	No
	34	3	-0.095	1.50	No
	37	3	-0.122	4.00	No
		3	-0.056	1.00	No
W90	32	x	-0.148	2.00	No
		x	-0.148	7.00	No
		x	-0.099	5.00	No
		x	-0.068	11.00	No
		x	-0.068	13.00	No
	33	x	-0.122	2.00	No
		x	-0.122	7.00	No
		x	-0.05	11.00	No
		x	-0.05	13.00	No
	34	x	-0.082	1.50	No
	37	x	-0.135	4.00	No
		x	-0.056	1.00	No
W120	32	2	-0.159	2.00	No
		2	-0.159	7.00	No
		2	-0.082	5.00	No
		2	-0.076	11.00	No
		2	-0.076	13.00	No
	33	2	-0.173	2.00	No
		2	-0.173	7.00	No
		2	-0.063	11.00	No
		2	-0.063	13.00	No
	34	2	-0.095	1.50	No
	37	2	-0.122	4.00	No
		2	-0.056	1.00	No
W150	32	2	-0.182	2.00	No
		2	-0.182	7.00	No

		2	-0.05	5.00	No
		2	-0.092	11.00	No
		2	-0.092	13.00	No
	33	2	-0.275	2.00	No
		2	-0.275	7.00	No
		2	-0.09	11.00	No
		2	-0.09	13.00	No
	34	2	-0.122	1.50	No
	37	2	-0.095	4.00	No
		2	-0.056	1.00	No
Di	32	y	-0.076	2.00	No
		y	-0.076	7.00	No
		y	-0.043	5.00	No
		y	-0.042	5.00	No
		y	-0.043	11.00	No
		y	-0.043	13.00	No
	33	y	-0.115	2.00	No
		y	-0.115	7.00	No
		y	-0.04	11.00	No
		y	-0.04	13.00	No
	34	y	-0.056	1.50	No
	37	y	-0.056	4.00	No
		y	-0.032	4.00	No
		y	-0.036	1.00	No
W10	32	z	-0.043	2.00	No
		z	-0.043	7.00	No
		z	-0.011	5.00	No
		z	-0.01	5.00	No
		z	-0.022	11.00	No
		z	-0.022	13.00	No
	33	z	-0.066	2.00	No
		z	-0.066	7.00	No
		z	-0.023	11.00	No
		z	-0.023	13.00	No
	34	z	-0.031	1.50	No
	37	z	-0.022	4.00	No
		z	-0.011	4.00	No
		z	-0.014	1.00	No
W130	32	3	-0.04	2.00	No
		3	-0.04	7.00	No
		3	-0.014	5.00	No
		3	-0.021	11.00	No
		3	-0.021	13.00	No
	33	3	-0.056	2.00	No
		3	-0.056	7.00	No
		3	-0.02	11.00	No
		3	-0.02	13.00	No
	34	3	-0.029	1.50	No
	37	3	-0.024	4.00	No
		3	-0.014	1.00	No
W160	32	3	-0.036	2.00	No
		3	-0.036	7.00	No
		3	-0.02	5.00	No
		3	-0.017	11.00	No
		3	-0.017	13.00	No
	33	3	-0.038	2.00	No
		3	-0.038	7.00	No
		3	-0.015	11.00	No
		3	-0.015	13.00	No
	34	3	-0.024	1.50	No

	37	3	-0.029	4.00	No
		3	-0.014	1.00	No
WI90	32	x	-0.034	2.00	No
		x	-0.034	7.00	No
		x	-0.024	5.00	No
		x	-0.016	11.00	No
		x	-0.016	13.00	No
	33	x	-0.029	2.00	No
		x	-0.029	7.00	No
		x	-0.013	11.00	No
		x	-0.013	13.00	No
	34	x	-0.021	1.50	No
	37	x	-0.031	4.00	No
		x	-0.014	1.00	No
WI120	32	2	-0.036	2.00	No
		2	-0.036	7.00	No
		2	-0.02	5.00	No
		2	-0.017	11.00	No
		2	-0.017	13.00	No
	33	2	-0.038	2.00	No
		2	-0.038	7.00	No
		2	-0.015	11.00	No
		2	-0.015	13.00	No
	34	2	-0.024	1.50	No
	37	2	-0.029	4.00	No
		2	-0.014	1.00	No
WI150	32	2	-0.04	2.00	No
		2	-0.04	7.00	No
		2	-0.014	5.00	No
		2	-0.021	11.00	No
		2	-0.021	13.00	No
	33	2	-0.056	2.00	No
		2	-0.056	7.00	No
		2	-0.02	11.00	No
		2	-0.02	13.00	No
	34	2	-0.029	1.50	No
	37	2	-0.024	4.00	No
		2	-0.014	1.00	No
WLO	32	z	-0.012	2.00	No
		z	-0.012	7.00	No
		z	-0.002	5.00	No
		z	-0.002	5.00	No
		z	-0.006	11.00	No
		z	-0.006	13.00	No
	33	z	-0.021	2.00	No
		z	-0.021	7.00	No
		z	-0.007	11.00	No
		z	-0.007	13.00	No
	34	z	-0.008	1.50	No
	37	z	-0.005	4.00	No
		z	-0.002	4.00	No
		z	-0.003	1.00	No
WL30	32	3	-0.012	2.00	No
		3	-0.012	7.00	No
		3	-0.003	5.00	No
		3	-0.006	11.00	No
		3	-0.006	13.00	No
	33	3	-0.017	2.00	No
		3	-0.017	7.00	No
		3	-0.006	11.00	No

		3	-0.006	13.00	No
	34	3	-0.008	1.50	No
	37	3	-0.006	4.00	No
		3	-0.003	1.00	No
WL60	32	3	-0.01	2.00	No
		3	-0.01	7.00	No
		3	-0.005	5.00	No
		3	-0.005	11.00	No
		3	-0.005	13.00	No
	33	3	-0.011	2.00	No
		3	-0.011	7.00	No
		3	-0.004	11.00	No
		3	-0.004	13.00	No
	34	3	-0.006	1.50	No
	37	3	-0.008	4.00	No
		3	-0.003	1.00	No
WL90	32	x	-0.009	2.00	No
		x	-0.009	7.00	No
		x	-0.006	5.00	No
		x	-0.004	11.00	No
		x	-0.004	13.00	No
	33	x	-0.008	2.00	No
		x	-0.008	7.00	No
		x	-0.003	11.00	No
		x	-0.003	13.00	No
	34	x	-0.005	1.50	No
	37	x	-0.008	4.00	No
		x	-0.003	1.00	No
WL120	32	2	-0.01	2.00	No
		2	-0.01	7.00	No
		2	-0.005	5.00	No
		2	-0.005	11.00	No
		2	-0.005	13.00	No
	33	2	-0.011	2.00	No
		2	-0.011	7.00	No
		2	-0.004	11.00	No
		2	-0.004	13.00	No
	34	2	-0.006	1.50	No
	37	2	-0.008	4.00	No
		2	-0.003	1.00	No
WL150	32	2	-0.012	2.00	No
		2	-0.012	7.00	No
		2	-0.003	5.00	No
		2	-0.006	11.00	No
		2	-0.006	13.00	No
	33	2	-0.017	2.00	No
		2	-0.017	7.00	No
		2	-0.006	11.00	No
		2	-0.006	13.00	No
	34	2	-0.008	1.50	No
	37	2	-0.006	4.00	No
		2	-0.003	1.00	No
LL1	6	y	-0.25	50.00	Yes
LL2	6	y	-0.25	100.00	Yes
LL3	6	y	-0.25	0.00	Yes
LLa1	34	y	-0.50	50.00	Yes
LLa2	33	y	-0.50	50.00	Yes
LLa3	37	y	-0.50	50.00	Yes
LLa4	32	y	-0.50	50.00	Yes

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## Self weight multipliers for load conditions

Condition	Description	Self weight multiplier			
		Comb.	MultX	MultY	MultZ
D	Dead Load	No	0.00	-1.00	0.00
Wo	Wind Load (NO ICE)	No	0.00	0.00	0.00
W30	WL 30deg	No	0.00	0.00	0.00
W60	WL 60deg	No	0.00	0.00	0.00
W90	WL 90deg	No	0.00	0.00	0.00
W120	WL 120deg	No	0.00	0.00	0.00
W150	WL 150deg	No	0.00	0.00	0.00
Di	Ice Load	No	0.00	0.00	0.00
WI0	WL ICE 0deg	No	0.00	0.00	0.00
WI30	WL ICE 30deg	No	0.00	0.00	0.00
WI60	WL ICE 60deg	No	0.00	0.00	0.00
WI90	WL ICE 90deg	No	0.00	0.00	0.00
WI120	WL ICE 120deg	No	0.00	0.00	0.00
WI150	WL ICE 150deg	No	0.00	0.00	0.00
WL0	WL 30 mph 0deg	No	0.00	0.00	0.00
WL30	WL 30 mph 30deg	No	0.00	0.00	0.00
WL60	WL 30 mph 60deg	No	0.00	0.00	0.00
WL90	WL 30 mph 90deg	No	0.00	0.00	0.00
WL120	WL 30 mph 120deg	No	0.00	0.00	0.00
WL150	WL 30 mph 150deg	No	0.00	0.00	0.00
LL1	250 lb Live Load Center of Mount	No	0.00	0.00	0.00
LL2	250 lb Live Load Right End of Mount	No	0.00	0.00	0.00
LL3	250 lb Live Load Left End of Mount	No	0.00	0.00	0.00
LLa1	500 lb Live Load Antenna 1	No	0.00	0.00	0.00
LLa2	500 lb Live Load Antenna 2	No	0.00	0.00	0.00
LLa3	500 lb Live Load Antenna 3	No	0.00	0.00	0.00
LLa4	500 lb Live Load Antenna 4	No	0.00	0.00	0.00

## Earthquake (Dynamic analysis only)

Condition	a/g	Ang. [Deg]	Damp. [%]
D	0.00	0.00	0.00
Wo	0.00	0.00	0.00
W30	0.00	0.00	0.00
W60	0.00	0.00	0.00
W90	0.00	0.00	0.00
W120	0.00	0.00	0.00
W150	0.00	0.00	0.00
Di	0.00	0.00	0.00
WI0	0.00	0.00	0.00
WI30	0.00	0.00	0.00
WI60	0.00	0.00	0.00
WI90	0.00	0.00	0.00
WI120	0.00	0.00	0.00
WI150	0.00	0.00	0.00
WL0	0.00	0.00	0.00
WL30	0.00	0.00	0.00
WL60	0.00	0.00	0.00
WL90	0.00	0.00	0.00
WL120	0.00	0.00	0.00
WL150	0.00	0.00	0.00
LL1	0.00	0.00	0.00

LL2	0.00	0.00	0.00
LL3	0.00	0.00	0.00
LLa1	0.00	0.00	0.00
LLa2	0.00	0.00	0.00
LLa3	0.00	0.00	0.00
LLa4	0.00	0.00	0.00

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## Steel Code Check

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Report: Summary - Group by member

Load conditions to be included in design :

LC1=1.2D+Wo  
LC2=1.2D+W30  
LC3=1.2D+W60  
LC4=1.2D+W90  
LC5=1.2D+W120  
LC6=1.2D+W150  
LC7=1.2D-Wo  
LC8=1.2D-W30  
LC9=1.2D-W60  
LC10=1.2D-W90  
LC11=1.2D-W120  
LC12=1.2D-W150  
LC13=0.9D+Wo  
LC14=0.9D+W30  
LC15=0.9D+W60  
LC16=0.9D+W90  
LC17=0.9D+W120  
LC18=0.9D+W150  
LC19=0.9D-Wo  
LC20=0.9D-W30  
LC21=0.9D-W60  
LC22=0.9D-W90  
LC23=0.9D-W120  
LC24=0.9D-W150  
LC25=1.2D+Di+Wl0  
LC26=1.2D+Di+Wl30  
LC27=1.2D+Di+Wl60  
LC28=1.2D+Di+Wl90  
LC29=1.2D+Di+Wl120  
LC30=1.2D+Di+Wl150  
LC31=1.2D+Di-Wl0  
LC32=1.2D+Di-Wl30  
LC33=1.2D+Di-Wl60  
LC34=1.2D+Di-Wl90  
LC35=1.2D+Di-Wl120  
LC36=1.2D+Di-Wl150  
LC37=1.2D+1.6LL1  
LC38=1.2D+1.6LL2  
LC39=1.2D+1.6LL3  
LC40=1.2D+Wl0+1.6LLa1  
LC41=1.2D+Wl30+1.6LLa1  
LC42=1.2D+Wl60+1.6LLa1  
LC43=1.2D+Wl90+1.6LLa1  
LC44=1.2D+Wl120+1.6LLa1  
LC45=1.2D+Wl150+1.6LLa1  
LC46=1.2D-Wl0+1.6LLa1  
LC47=1.2D-Wl30+1.6LLa1  
LC48=1.2D-Wl60+1.6LLa1  
LC49=1.2D-Wl90+1.6LLa1  
LC50=1.2D-Wl120+1.6LLa1  
LC51=1.2D-Wl150+1.6LLa1  
LC52=1.2D+Wl0+1.6LLa2  
LC53=1.2D+Wl30+1.6LLa2  
LC54=1.2D+Wl60+1.6LLa2

LC55=1.2D+WL90+1.6LLa2  
 LC56=1.2D+WL120+1.6LLa2  
 LC57=1.2D+WL150+1.6LLa2  
 LC58=1.2D-WL0+1.6LLa2  
 LC59=1.2D-WL30+1.6LLa2  
 LC60=1.2D-WL60+1.6LLa2  
 LC61=1.2D-WL90+1.6LLa2  
 LC62=1.2D-WL120+1.6LLa2  
 LC63=1.2D-WL150+1.6LLa2  
 LC64=1.2D+WL0+1.6LLa3  
 LC65=1.2D+WL30+1.6LLa3  
 LC66=1.2D+WL60+1.6LLa3  
 LC67=1.2D+WL90+1.6LLa3  
 LC68=1.2D+WL120+1.6LLa3  
 LC69=1.2D+WL150+1.6LLa3  
 LC70=1.2D-WL0+1.6LLa3  
 LC71=1.2D-WL30+1.6LLa3  
 LC72=1.2D-WL60+1.6LLa3  
 LC73=1.2D-WL90+1.6LLa3  
 LC74=1.2D-WL120+1.6LLa3  
 LC75=1.2D-WL150+1.6LLa3  
 LC76=1.2D+WL0+1.6LLa4  
 LC77=1.2D+WL30+1.6LLa4  
 LC78=1.2D+WL60+1.6LLa4  
 LC79=1.2D+WL90+1.6LLa4  
 LC80=1.2D+WL120+1.6LLa4  
 LC81=1.2D+WL150+1.6LLa4  
 LC82=1.2D-WL0+1.6LLa4  
 LC83=1.2D-WL30+1.6LLa4  
 LC84=1.2D-WL60+1.6LLa4  
 LC85=1.2D-WL90+1.6LLa4  
 LC86=1.2D-WL120+1.6LLa4  
 LC87=1.2D-WL150+1.6LLa4

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	<i>L 2-1_2X2-1_2X1_4</i>	15	LC2 at 0.00%	0.35	OK	
		16	LC13 at 0.00%	0.12	OK	
		18	LC13 at 100.00%	0.12	OK	
		19	LC13 at 100.00%	0.22	OK	
		20	LC15 at 100.00%	0.14	OK	
		21	LC11 at 0.00%	0.15	OK	
		22	LC10 at 100.00%	0.09	OK	
		47	LC2 at 0.00%	0.79	OK	
		48	LC2 at 0.00%	1.15	N.G.	
	<i>L 5X5X3_8</i>	6	LC1 at 91.35%	0.19	OK	
		13	LC1 at 26.92%	0.36	OK	
	<i>PIPE 2x0.154</i>	32	LC19 at 25.00%	2.30	N.G.	
		33	LC19 at 25.00%	2.61	N.G.	
		34	LC11 at 33.33%	0.20	OK	
		37	LC10 at 35.42%	0.24	OK	
	<i>PIPE 4x0.237</i>	5	LC13 at 95.00%	0.50	OK	
	<i>T2L 2-1_2X2-1_2X1_4</i>	4	LC10 at 16.67%	0.00	OK	
		40	LC10 at 16.67%	0.00	OK	
		41	LC2 at 14.58%	0.39	OK	
	<i>W 5X16</i>	2	LC1 at 45.83%	0.12	OK	
		38	LC11 at 45.83%	0.21	OK	
		43	LC16 at 83.33%	0.05	OK	

## Geometry data

### GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member    0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

### Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
2	0.00	-11.8333	0.00	0
4	0.00	-11.8333	2.75	0
6	0.00	-13.4167	0.00	0
8	0.00	-13.4167	1.50	0
10	0.00	-15.2083	2.75	0
11	0.00	1.7917	2.75	0
13	-2.25	0.00	3.05	0
15	6.00	0.00	3.05	0
25	-2.25	-2.25	3.05	0
27	6.00	-2.25	3.05	0
28	5.75	0.00	3.05	0
29	5.75	-2.25	3.05	0
30	-2.00	0.00	3.05	0
31	-2.00	-2.25	3.05	0
32	-0.50	-2.25	3.05	0
33	4.00	-2.25	3.05	0
34	5.50	0.00	3.05	0
35	-1.75	0.00	3.05	0
36	3.75	-2.25	3.05	0
37	3.75	0.00	3.05	0
38	3.50	0.00	3.05	0
39	0.75	-2.25	3.05	0
40	0.50	-2.25	3.05	0

41	0.50	0.00	3.05	0
43	0.00	-11.8333	1.25	0
45	0.00	-13.4167	1.25	0
62	-1.50	1.50	3.50	0
63	5.25	1.50	3.50	0
64	-1.50	-13.50	3.50	0
65	5.25	-13.50	3.50	0
68	2.50	1.00	3.50	0
69	2.50	-9.00	3.50	0
74	1.25	0.50	3.50	0
75	1.25	-7.50	3.50	0
80	0.00	-11.8333	0.25	0
81	0.00	-13.4167	0.25	0
82	0.00	1.00	0.00	0
83	0.00	1.00	2.75	0
85	0.00	1.00	1.25	0
86	0.00	1.00	0.25	0
87	0.00	-0.5833	0.00	0
88	0.00	-0.5833	1.50	0
89	0.00	-0.5833	1.25	0
90	0.00	-0.5833	0.25	0
92	6.00	1.00	0.00	0
93	6.00	1.00	1.50	0
94	6.00	1.00	1.25	0
95	6.00	1.00	0.25	0
96	6.00	-0.5833	0.00	0
97	6.00	-0.5833	1.50	0
99	6.00	-0.5833	1.25	0
100	6.00	-0.5833	0.25	0

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## Restraints

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Node	TX	TY	TZ	RX	RY	RZ
43	1	1	1	1	1	1
45	1	1	1	1	1	1
80	1	1	1	1	1	1
81	1	1	1	1	1	1
85	1	1	1	1	1	1
86	1	1	1	1	1	1
89	1	1	1	1	1	1
90	1	1	1	1	1	1
94	1	1	1	1	1	1
95	1	1	1	1	1	1
99	1	1	1	1	1	1
100	1	1	1	1	1	1

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## Members

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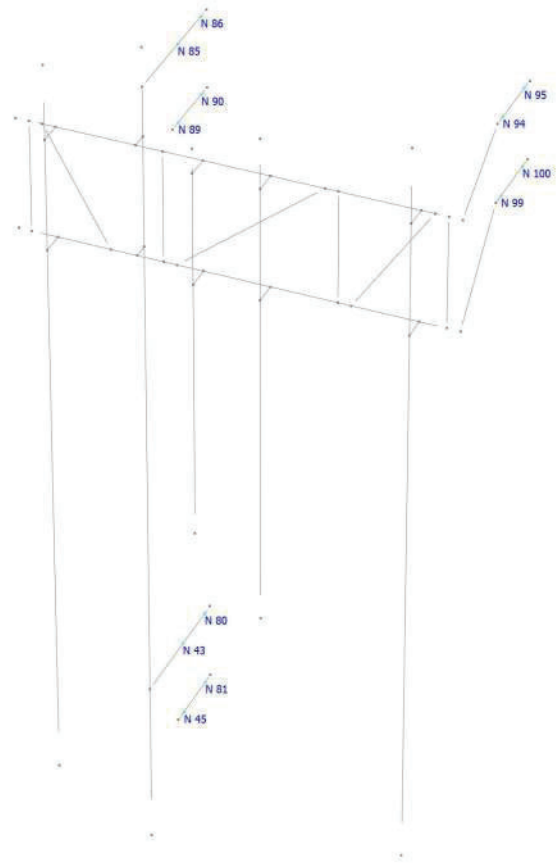
Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
2	2	4		W 5X16	A36	0.00	0.00	0.00
4	6	8		T2L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
5	10	11		PIPE 4x0.237	A53 GrB	0.00	0.00	0.00
6	13	15		L 5X5X3_8	A36	0.00	0.00	0.00
13	25	27		L 5X5X3_8	A36	0.00	0.00	0.00
15	29	28		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
16	31	30		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
18	34	33		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
19	32	35		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
20	37	36		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
21	39	38		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
22	41	40		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
32	62	64		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
33	63	65		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
34	68	69		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
37	74	75		PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
38	82	83		W 5X16	A992 Gr50	0.00	0.00	0.00
40	87	88		T2L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
41	93	92		T2L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
43	96	97		W 5X16	A992 Gr50	0.00	0.00	0.00
47	93	15		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
48	97	27		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00

### Orientation of local axes

Member	Rotation [Deg]	Axes23	NX	NY	NZ
6	90.00	0	0.00	0.00	0.00
13	90.00	0	0.00	0.00	0.00
15	180.00	0	0.00	0.00	0.00
16	180.00	0	0.00	0.00	0.00
18	90.00	0	0.00	0.00	0.00
20	180.00	0	0.00	0.00	0.00
21	180.00	0	0.00	0.00	0.00
22	180.00	0	0.00	0.00	0.00
32	315.00	0	0.00	0.00	0.00
33	315.00	0	0.00	0.00	0.00
34	315.00	0	0.00	0.00	0.00
37	315.00	0	0.00	0.00	0.00
41	180.00	0	0.00	0.00	0.00

### Rigid end offsets

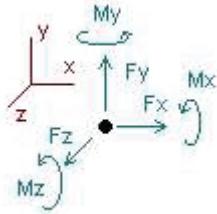
Member	DJX [in]	DJY [in]	DJZ [in]	DKX [in]	DKY [in]	DKZ [in]
2	-2.00	0.00	0.00	-2.00	0.00	0.00
4	-2.00	0.00	0.00	-2.00	0.00	0.00
38	-2.00	0.00	0.00	-2.00	0.00	0.00
40	-2.00	0.00	0.00	-2.00	0.00	0.00
41	-2.00	0.00	0.00	-2.00	0.00	0.00
43	-2.00	0.00	0.00	-2.00	0.00	0.00





## Analysis result

### Reactions



Direction of positive forces and moments

Node	Forces [Kip]			Moments [Kip*ft]		
	FX	FY	FZ	MX	MY	MZ
Condition <b>LC1=1.2D+Wo</b>						
43	0.13962	3.10651	0.82006	-2.09382	0.27593	-0.51907
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00002	0.01379	0.00005	-0.00120	0.00000	-0.00230
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.22470	-1.47166	1.50296	-2.61997	-0.33900	0.25414
86	0.00005	0.01352	-0.00009	-0.00124	0.00000	-0.00225
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.12051	1.32663	-1.05001	-1.09195	-0.17842	-0.10395
95	0.00004	0.00653	-0.00011	-0.00027	-0.00001	-0.00109
99	0.20556	-1.33415	2.18754	-0.97116	0.44316	0.41603
100	-0.00003	0.01403	0.00007	-0.00108	0.00000	-0.00234
SUM	0.00000	1.70440	3.46047	-6.78069	0.20166	0.03432
Condition <b>LC2=1.2D+W30</b>						
43	0.16308	2.75142	0.69892	-2.02533	0.27780	-0.46812
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00003	0.01381	0.00005	-0.00119	0.00000	-0.00230
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.63341	-2.01256	1.42475	-1.05955	0.76374	0.35726
86	-0.00007	0.01400	0.00015	-0.00109	0.00001	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00189	1.38600	-0.89355	-1.27446	-0.08692	-0.06708
95	0.00000	0.00640	-0.00003	-0.00023	0.00000	-0.00107
99	0.33384	-0.49780	1.54717	-1.30798	0.51793	0.46041
100	-0.00004	0.01392	0.00010	-0.00112	0.00000	-0.00232
SUM	1.13208	1.70440	2.77755	-5.67094	1.47257	0.26958
Condition <b>LC3=1.2D+W60</b>						
43	0.36938	1.82606	0.27047	-1.63125	0.50233	-0.31882
45	0.00975	0.00730	0.00000	0.00051	-0.00068	-0.00122
80	0.01944	0.01393	0.00011	-0.00115	0.00136	-0.00232
81	0.00975	0.00730	0.00000	-0.00051	0.00068	-0.00122
85	1.33553	-1.67666	0.69175	0.37688	1.63981	0.30691
86	0.01932	0.01445	0.00035	-0.00096	0.00137	-0.00241
89	0.00975	0.00730	0.00000	0.00051	-0.00068	-0.00122

90	0.00975	0.00730	0.00000	-0.00051	0.00068	-0.00122
94	0.13698	1.13490	-0.64021	-1.09182	0.01159	-0.02332
95	0.00972	0.00653	0.00004	-0.00027	0.00068	-0.00109
99	0.41711	0.34204	0.59452	-1.23948	0.46395	0.38671
100	0.01945	0.01394	0.00009	-0.00111	0.00136	-0.00232

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SUM	2.36594	1.70440	0.91712	-3.58917	2.62244	0.33847
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Condition **LC4=1.2D+W90**

43	0.35124	1.13272	0.07118	-1.34995	0.42740	-0.20550
45	0.00975	0.00730	0.00000	0.00051	-0.00068	-0.00122
80	0.01945	0.01402	0.00009	-0.00113	0.00136	-0.00234
81	0.00975	0.00730	0.00000	-0.00051	0.00068	-0.00122
85	1.52317	-1.21660	0.28628	1.22824	1.85532	0.23240
86	0.01929	0.01471	0.00040	-0.00088	0.00137	-0.00245
89	0.00975	0.00730	0.00000	0.00051	-0.00068	-0.00122
90	0.00975	0.00730	0.00000	-0.00051	0.00068	-0.00122
94	0.19400	0.88038	-0.36086	-0.93304	0.07361	0.00833
95	0.00971	0.00664	0.00009	-0.00030	0.00068	-0.00111
99	0.42150	0.82935	0.00273	-1.14317	0.40147	0.31855
100	0.01945	0.01397	0.00009	-0.00110	0.00136	-0.00233

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SUM	2.59682	1.70440	0.00000	-2.20134	2.76256	0.34069
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Condition **LC5=1.2D+W120**

43	0.31343	0.37288	-0.13127	-0.97913	0.32317	-0.07767
45	0.00975	0.00730	0.00000	0.00051	-0.00068	-0.00122
80	0.01946	0.01414	0.00007	-0.00109	0.00136	-0.00236
81	0.00975	0.00730	0.00000	-0.00051	0.00068	-0.00122
85	1.38859	-0.38162	-0.19731	1.61692	1.64905	0.08969
86	0.01931	0.01483	0.00037	-0.00084	0.00137	-0.00247
89	0.00975	0.00730	0.00000	0.00051	-0.00068	-0.00122
90	0.00975	0.00730	0.00000	-0.00051	0.00068	-0.00122
94	0.21041	0.47806	-0.01776	-0.61873	0.11671	0.03594
95	0.00970	0.00686	0.00011	-0.00037	0.00068	-0.00114
99	0.34657	1.15598	-0.57139	-0.85003	0.26382	0.19163
100	0.01946	0.01407	0.00006	-0.00107	0.00136	-0.00234

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SUM	2.36594	1.70440	-0.91712	-0.83435	2.35751	0.22640
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Condition **LC6=1.2D+W150**

43	0.00308	-0.79405	-0.56456	-0.23450	-0.08102	0.12413
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01437	-0.00001	-0.00102	0.00000	-0.00240
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.83870	1.07629	-1.12661	1.60828	0.99802	-0.16536
86	-0.00013	0.01483	0.00023	-0.00084	0.00001	-0.00247
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.17120	-0.20061	0.41646	0.01864	0.14283	0.06212
95	-0.00004	0.00731	0.00011	-0.00051	0.00001	-0.00122
99	0.11928	1.54278	-1.50319	-0.20116	-0.03004	-0.06761
100	-0.00001	0.01427	0.00001	-0.00101	0.00000	-0.00238

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SUM	1.13208	1.70440	-2.77755	1.18786	1.02981	-0.06004
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Condition **LC7=1.2D-Wo**

43	-0.07732	-1.48487	-0.70289	0.27607	-0.20373	0.24890
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00002	0.01453	-0.00004	-0.00098	0.00000	-0.00242
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.08561	2.49166	-1.59553	0.76463	0.05969	-0.41752
86	-0.00002	0.01457	0.00003	-0.00092	0.00000	-0.00243
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.10644	-0.89316	0.87133	0.65950	0.14387	0.07883
95	-0.00003	0.00776	0.00009	-0.00065	0.00001	-0.00129
99	-0.11471	1.51019	-2.03342	0.52325	-0.32084	-0.31500
100	0.00002	0.01450	-0.00005	-0.00095	0.00000	-0.00242
SUM	0.00000	1.70440	-3.46047	2.21995	-0.32101	-0.41822

Condition **LC8=1.2D-W30**

43	-0.10277	-1.13910	-0.58127	0.21117	-0.20888	0.19943
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00002	0.01451	-0.00004	-0.00098	0.00000	-0.00242
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.77131	3.03539	-1.52325	-0.78076	-1.04027	-0.52108
86	0.00010	0.01410	-0.00021	-0.00107	-0.00001	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01220	-0.95459	0.71811	0.84516	0.05344	0.04207
95	0.00000	0.00789	0.00001	-0.00069	0.00000	-0.00132
99	-0.24596	0.68239	-1.39083	0.86040	-0.39758	-0.36072
100	0.00003	0.01461	-0.00007	-0.00092	0.00000	-0.00243
SUM	-1.13208	1.70440	-2.77755	1.13230	-1.59331	-0.65367

Condition **LC9=1.2D-W60**

43	-0.30918	-0.23382	-0.15258	-0.17022	-0.43342	0.05360
45	-0.00975	0.00730	0.00000	0.00051	0.00068	-0.00122
80	-0.01945	0.01439	-0.00009	-0.00102	-0.00136	-0.00240
81	-0.00975	0.00730	0.00000	-0.00051	-0.00068	-0.00122
85	-1.47739	2.71859	-0.79222	-2.21401	-1.91920	-0.47408
86	-0.01929	0.01366	-0.00041	-0.00121	-0.00137	-0.00228
89	-0.00975	0.00730	0.00000	0.00051	0.00068	-0.00122
90	-0.00975	0.00730	0.00000	-0.00051	-0.00068	-0.00122
94	-0.14568	-0.71984	0.46606	0.67679	-0.04281	-0.00040
95	-0.00972	0.00778	-0.00006	-0.00065	-0.00068	-0.00130
99	-0.32677	-0.14015	-0.43773	0.79528	-0.34840	-0.29280
100	-0.01946	0.01458	-0.00007	-0.00092	-0.00136	-0.00243
SUM	-2.36594	1.70440	-0.91712	-0.91597	-2.74859	-0.72695

Condition **LC10=1.2D-W90**

43	-0.29033	0.45116	0.04650	-0.44542	-0.35739	-0.05822
45	-0.00975	0.00730	0.00000	0.00051	0.00068	-0.00122
80	-0.01946	0.01431	-0.00008	-0.00104	-0.00136	-0.00238
81	-0.00975	0.00730	0.00000	-0.00051	-0.00068	-0.00122
85	-1.66817	2.26850	-0.38475	-3.06902	-2.13739	-0.40134
86	-0.01926	0.01339	-0.00047	-0.00129	-0.00137	-0.00223
89	-0.00975	0.00730	0.00000	0.00051	0.00068	-0.00122
90	-0.00975	0.00730	0.00000	-0.00051	-0.00068	-0.00122
94	-0.20329	-0.47436	0.18536	0.52560	-0.10381	-0.03127
95	-0.00970	0.00767	-0.00011	-0.00062	-0.00068	-0.00128
99	-0.32814	-0.62003	0.15361	0.70054	-0.28797	-0.22764

100	-0.01947	0.01455	-0.00006	-0.00093	-0.00136	-0.00243
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SUM	-2.59682	1.70440	0.00000	-2.29218	-2.89133	-0.73166
<b>Condition LC11=1.2D-W120</b>						
43	-0.25120	1.21067	0.24868	-0.81444	-0.25088	-0.18590
45	-0.00975	0.00730	0.00000	0.00051	0.00068	-0.00122
80	-0.01947	0.01419	-0.00006	-0.00108	-0.00136	-0.00237
81	-0.00975	0.00730	0.00000	-0.00051	-0.00068	-0.00122
85	-1.53485	1.43734	0.10198	-3.46614	-1.93254	-0.25934
86	-0.01928	0.01327	-0.00043	-0.00133	-0.00137	-0.00221
89	-0.00975	0.00730	0.00000	0.00051	0.00068	-0.00122
90	-0.00975	0.00730	0.00000	-0.00051	-0.00068	-0.00122
94	-0.22183	-0.07734	-0.15946	0.21403	-0.14650	-0.05825
95	-0.00970	0.00745	-0.00013	-0.00055	-0.00068	-0.00124
99	-0.25114	-0.94483	0.72657	0.40735	-0.15071	-0.10167
100	-0.01948	0.01446	-0.00004	-0.00096	-0.00136	-0.00241
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SUM	-2.36594	1.70440	0.91712	-3.66311	-2.48539	-0.61826
<b>Condition LC12=1.2D-W150</b>						
43	0.06038	2.39321	0.68139	-1.56762	0.15511	-0.39033
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01395	0.00003	-0.00115	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.98368	-0.03196	1.03481	-3.46767	-1.28240	-0.00233
86	0.00016	0.01326	-0.00029	-0.00133	-0.00001	-0.00221
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.18546	0.60975	-0.59587	-0.43225	-0.17413	-0.08500
95	0.00005	0.00700	-0.00013	-0.00041	-0.00001	-0.00117
99	-0.02351	-1.34427	1.65762	-0.24406	0.14661	0.16119
100	0.00000	0.01426	0.00001	-0.00102	0.00000	-0.00238
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SUM	-1.13208	1.70440	2.77755	-5.71551	-1.15481	-0.32942
<b>Condition LC13=0.9D+Wo</b>						
43	0.13215	2.91355	0.80772	-1.86962	0.26809	-0.48692
45	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
80	-0.00002	0.01025	0.00005	-0.00093	0.00000	-0.00171
81	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
85	-0.20715	-1.60812	1.51256	-2.39448	-0.30468	0.27608
86	0.00005	0.01001	-0.00009	-0.00097	0.00000	-0.00167
89	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
90	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
94	-0.11952	1.27990	-1.03452	-1.04192	-0.17548	-0.10160
95	0.00003	0.00474	-0.00011	-0.00015	-0.00001	-0.00079
99	0.19449	-1.36439	2.17479	-0.91689	0.42954	0.40512
100	-0.00003	0.01046	0.00007	-0.00083	0.00000	-0.00174
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SUM	0.00000	1.27830	3.46047	-6.22580	0.21747	0.08311

Condition **LC14=0.9D+W30**

43	0.15582	2.55706	0.68600	-1.80092	0.26993	-0.43577
45	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
80	-0.00002	0.01027	0.00005	-0.00092	0.00000	-0.00171
81	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
85	0.65035	-2.15048	1.43515	-0.82906	0.79669	-0.37947
86	-0.00008	0.01049	0.00016	-0.00082	0.00001	-0.00175
89	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
90	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
94	0.00295	1.33941	-0.87635	-1.22592	-0.08377	-0.06462
95	0.00000	0.00461	-0.00003	-0.00011	0.00000	-0.00077
99	0.32311	-0.52532	1.53248	-1.25554	0.50466	0.44977
100	-0.00004	0.01036	0.00009	-0.00086	0.00000	-0.00173
-----						
SUM	1.13208	1.27830	2.77755	-5.11415	1.48752	0.31925

Condition **LC15=0.9D+W60**

43	0.36212	1.62984	0.25673	-1.40650	0.49418	-0.28617
45	0.00975	0.00547	0.00000	0.00038	-0.00068	-0.00091
80	0.01944	0.01039	0.00011	-0.00088	0.00136	-0.00173
81	0.00975	0.00547	0.00000	-0.00038	0.00068	-0.00091
85	1.35234	-1.81370	0.70309	0.61005	1.67254	0.32899
86	0.01932	0.01093	0.00036	-0.00069	0.00137	-0.00182
89	0.00975	0.00547	0.00000	0.00038	-0.00068	-0.00091
90	0.00975	0.00547	0.00000	-0.00038	0.00068	-0.00091
94	0.13816	1.08716	-0.62054	-1.04335	0.01503	-0.02069
95	0.00972	0.00474	0.00005	-0.00015	0.00068	-0.00079
99	0.40639	0.31665	0.57723	-1.18718	0.45057	0.37595
100	0.01945	0.01038	0.00009	-0.00086	0.00136	-0.00173
-----						
SUM	2.36594	1.27830	0.91712	-3.02956	2.63708	0.38835

Condition **LC16=0.9D+W90**

43	0.34395	0.93448	0.05656	-1.12498	0.41892	-0.17253
45	0.00975	0.00547	0.00000	0.00038	-0.00068	-0.00091
80	0.01945	0.01048	0.00009	-0.00086	0.00136	-0.00175
81	0.00975	0.00547	0.00000	-0.00038	0.00068	-0.00091
85	1.53982	-1.35218	0.29861	1.46392	1.88792	0.25424
86	0.01929	0.01120	0.00041	-0.00060	0.00137	-0.00187
89	0.00975	0.00547	0.00000	0.00038	-0.00068	-0.00091
90	0.00975	0.00547	0.00000	-0.00038	0.00068	-0.00091
94	0.19535	0.83166	-0.33931	-0.88440	0.07730	0.01110
95	0.00971	0.00485	0.00009	-0.00019	0.00068	-0.00081
99	0.41080	0.80550	-0.01653	-1.09075	0.38797	0.30766
100	0.01946	0.01041	0.00009	-0.00085	0.00136	-0.00173
-----						
SUM	2.59682	1.27830	0.00000	-1.63872	2.77688	0.39067

Condition **LC17=0.9D+W120**

43	0.30600	0.17260	-0.14679	-0.75391	0.31425	-0.04437
45	0.00975	0.00547	0.00000	0.00038	-0.00068	-0.00091
80	0.01946	0.01060	0.00007	-0.00082	0.00136	-0.00177
81	0.00975	0.00547	0.00000	-0.00038	0.00068	-0.00091
85	1.40532	-0.51485	-0.18404	1.85384	1.68212	0.11113
86	0.01931	0.01132	0.00037	-0.00057	0.00137	-0.00189
89	0.00975	0.00547	0.00000	0.00038	-0.00068	-0.00091
90	0.00975	0.00547	0.00000	-0.00038	0.00068	-0.00091
94	0.21195	0.42794	0.00578	-0.56929	0.12065	0.03885
95	0.00970	0.00507	0.00011	-0.00026	0.00068	-0.00085
99	0.33572	1.13321	-0.59268	-0.79677	0.25000	0.18043

100	0.01947	0.01050	0.00006	-0.00082	0.00136	-0.00175
<hr/>						
SUM	2.36594	1.27830	-0.91712	-0.26860	2.37178	0.27615
<hr/>						
Condition <b>LC18=0.9D+W150</b>						
43	-0.00460	-0.99617	-0.58091	-0.00887	-0.09045	0.15775
45	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
80	0.00001	0.01083	-0.00001	-0.00075	0.00000	-0.00180
81	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
85	0.85581	0.94551	-1.11253	1.84549	1.03202	-0.14433
86	-0.00013	0.01132	0.00024	-0.00057	0.00001	-0.00189
89	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
90	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
94	0.17293	-0.25261	0.44273	0.06919	0.14706	0.06519
95	-0.00004	0.00552	0.00011	-0.00039	0.00001	-0.00092
99	0.10811	1.52128	-1.52720	-0.14659	-0.04437	-0.07926
100	-0.00001	0.01071	0.00001	-0.00076	0.00000	-0.00178
<hr/>						
SUM	1.13208	1.27830	-2.77755	1.75674	1.04428	-0.01069
<hr/>						
Condition <b>LC19=0.9D-Wo</b>						
43	-0.08538	-1.68845	-0.71983	0.50207	-0.21370	0.28279
45	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
80	0.00002	0.01099	-0.00004	-0.00070	0.00000	-0.00183
81	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
85	0.10353	2.36488	-1.58102	0.99920	0.09562	-0.39719
86	-0.00003	0.01106	0.00004	-0.00065	0.00000	-0.00184
89	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
90	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
94	0.10836	-0.94753	0.89984	0.71234	0.14832	0.08203
95	-0.00003	0.00597	0.00009	-0.00053	0.00001	-0.00100
99	-0.12648	1.48853	-2.05951	0.58053	-0.33600	-0.32738
100	0.00002	0.01093	-0.00005	-0.00069	0.00000	-0.00182
<hr/>						
SUM	0.00000	1.27830	-3.46047	2.79156	-0.30577	-0.36989
<hr/>						
Condition <b>LC20=0.9D-W30</b>						
43	-0.11105	-1.34133	-0.59763	0.43696	-0.21884	0.23313
45	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
80	0.00002	0.01097	-0.00004	-0.00071	0.00000	-0.00183
81	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
85	-0.75276	2.91007	-1.50957	-0.55108	-1.00297	-0.50102
86	0.00010	0.01059	-0.00020	-0.00080	-0.00001	-0.00176
89	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
90	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
94	-0.01033	-1.00908	0.74492	0.89948	0.05769	0.04515
95	0.00000	0.00611	0.00002	-0.00058	0.00000	-0.00102
99	-0.25809	0.65804	-1.41497	0.91950	-0.41310	-0.37337
100	0.00003	0.01104	-0.00007	-0.00066	0.00000	-0.00184
<hr/>						
SUM	-1.13208	1.27830	-2.77755	1.70211	-1.57723	-0.60621

Condition **LC21=0.9D-W60**

43	-0.31746	-0.43428	-0.16813	0.05528	-0.44311	0.08702
45	-0.00975	0.00547	0.00000	0.00038	0.00068	-0.00091
80	-0.01945	0.01085	-0.00010	-0.00075	-0.00136	-0.00181
81	-0.00975	0.00547	0.00000	-0.00038	-0.00068	-0.00091
85	-1.45873	2.59248	-0.77950	-1.98698	-1.88170	-0.45390
86	-0.01929	0.01014	-0.00040	-0.00094	-0.00137	-0.00169
89	-0.00975	0.00547	0.00000	0.00038	0.00068	-0.00091
90	-0.00975	0.00547	0.00000	-0.00038	-0.00068	-0.00091
94	-0.14392	-0.77327	0.49040	0.73125	-0.03884	0.00251
95	-0.00972	0.00599	-0.00006	-0.00054	-0.00068	-0.00100
99	-0.33890	-0.16653	-0.45926	0.85452	-0.36383	-0.30536
100	-0.01946	0.01102	-0.00007	-0.00067	-0.00136	-0.00184

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SUM           -2.36594           1.27830           -0.91712           -0.34882           -2.73224           -0.67972

Condition **LC22=0.9D-W90**

43	-0.29858	0.25267	0.03184	-0.22011	-0.36673	-0.02512
45	-0.00975	0.00547	0.00000	0.00038	0.00068	-0.00091
80	-0.01946	0.01077	-0.00008	-0.00077	-0.00136	-0.00179
81	-0.00975	0.00547	0.00000	-0.00038	-0.00068	-0.00091
85	-1.64937	2.14097	-0.37301	-2.84450	-2.09978	-0.38094
86	-0.01926	0.00988	-0.00046	-0.00102	-0.00137	-0.00165
89	-0.00975	0.00547	0.00000	0.00038	0.00068	-0.00091
90	-0.00975	0.00547	0.00000	-0.00038	-0.00068	-0.00091
94	-0.20170	-0.52686	0.20781	0.57994	-0.10008	-0.02848
95	-0.00970	0.00588	-0.00010	-0.00051	-0.00068	-0.00098
99	-0.34028	-0.64790	0.13407	0.75967	-0.30329	-0.24009
100	-0.01946	0.01099	-0.00007	-0.00068	-0.00136	-0.00183

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SUM           -2.59682           1.27830           0.00000           -1.72797           -2.87465           -0.68453

Condition **LC23=0.9D-W120**

43	-0.25931	1.01420	0.23491	-0.58937	-0.25978	-0.15314
45	-0.00975	0.00547	0.00000	0.00038	0.00068	-0.00091
80	-0.01947	0.01065	-0.00006	-0.00081	-0.00136	-0.00177
81	-0.00975	0.00547	0.00000	-0.00038	-0.00068	-0.00091
85	-1.51615	1.30749	0.11281	-3.24290	-1.89538	-0.23855
86	-0.01928	0.00975	-0.00042	-0.00106	-0.00137	-0.00163
89	-0.00975	0.00547	0.00000	0.00038	0.00068	-0.00091
90	-0.00975	0.00547	0.00000	-0.00038	-0.00068	-0.00091
94	-0.22044	-0.12849	-0.13901	0.26760	-0.14302	-0.05560
95	-0.00970	0.00567	-0.00012	-0.00044	-0.00068	-0.00094
99	-0.26311	-0.97377	0.70905	0.46564	-0.16571	-0.11382
100	-0.01947	0.01090	-0.00004	-0.00070	-0.00136	-0.00182

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SUM           -2.36594           1.27830           0.91712           -3.10204           -2.46866           -0.57092

Condition **LC24=0.9D-W150**

43	0.05252	2.19866	0.66844	-1.34299	0.14674	-0.35789
45	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
80	-0.00001	0.01041	0.00002	-0.00088	0.00000	-0.00174
81	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
85	-0.96536	-0.16430	1.04484	-3.24480	-1.24617	0.01888
86	0.00015	0.00975	-0.00029	-0.00106	-0.00001	-0.00162
89	0.00000	0.00547	0.00000	0.00038	0.00000	-0.00091
90	0.00000	0.00547	0.00000	-0.00038	0.00000	-0.00091
94	-0.18427	0.56050	-0.57816	-0.37983	-0.17094	-0.08251
95	0.00005	0.00521	-0.00013	-0.00030	-0.00001	-0.00087
99	-0.03516	-1.37452	1.64281	-0.18709	0.13213	0.14951

100	0.00000	0.01069	0.00001	-0.00076	0.00000	-0.00178
-----						
SUM	-1.13208	1.27830	2.77755	-5.15770	-1.13826	-0.28167
Condition <b>LC25=1.2D+Di+W10</b>						
43	0.07347	1.67969	0.18508	-1.69966	0.10046	-0.28083
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02441	0.00002	-0.00189	0.00000	-0.00407
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.16302	0.55818	0.09804	-1.73696	-0.31666	-0.08598
86	0.00004	0.02430	-0.00007	-0.00189	0.00000	-0.00405
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.03073	0.58651	-0.34680	-0.54325	-0.05833	-0.03829
95	0.00001	0.01292	-0.00004	-0.00081	0.00000	-0.00215
99	0.12024	-0.01268	0.47074	-0.55512	0.17546	0.15072
100	-0.00002	0.02466	0.00003	-0.00178	0.00000	-0.00411
-----						
SUM	0.00000	2.95120	0.40700	-4.54135	-0.09908	-0.27763
Condition <b>LC26=1.2D+Di+W130</b>						
43	0.07887	1.59910	0.15705	-1.68508	0.10100	-0.26925
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02442	0.00002	-0.00189	0.00000	-0.00407
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	0.02608	0.44323	0.07389	-1.38874	-0.07558	-0.06393
86	0.00001	0.02441	-0.00002	-0.00186	0.00000	-0.00407
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.00394	0.60162	-0.31405	-0.58518	-0.03837	-0.03028
95	0.00000	0.01289	-0.00002	-0.00080	0.00000	-0.00215
99	0.15004	0.16770	0.33410	-0.63045	0.19331	0.16157
100	-0.00002	0.02464	0.00004	-0.00178	0.00000	-0.00411
-----						
SUM	0.25102	2.95120	0.25102	-4.29577	0.18036	-0.22514
Condition <b>LC27=1.2D+Di+W160</b>						
43	0.07450	1.56219	0.15081	-1.65421	0.09598	-0.26257
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02443	0.00002	-0.00188	0.00000	-0.00407
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	0.00408	0.50356	0.05990	-1.42497	-0.09618	-0.07477
86	0.00001	0.02439	-0.00002	-0.00186	0.00000	-0.00407
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.00507	0.55756	-0.28167	-0.54734	-0.03585	-0.02818
95	0.00000	0.01291	-0.00002	-0.00080	0.00000	-0.00215
99	0.13793	0.18830	0.28236	-0.59169	0.17581	0.14611
100	-0.00002	0.02465	0.00004	-0.00178	0.00000	-0.00411
-----						
SUM	0.21142	2.95120	0.21142	-4.22454	0.13976	-0.24266



Condition **LC28=1.2D+Di+W190**

43	0.07079	1.40676	0.10595	-1.59177	0.07963	-0.23727
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02444	0.00002	-0.00188	0.00000	-0.00407
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	0.05418	0.59743	-0.03385	-1.21920	-0.03818	-0.08978
86	0.00000	0.02446	-0.00001	-0.00184	0.00000	-0.00408
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	0.00878	0.50394	-0.21904	-0.51607	-0.02140	-0.02094
95	0.00000	0.01294	-0.00001	-0.00081	0.00000	-0.00216
99	0.14027	0.30337	0.14690	-0.57544	0.16343	0.13220
100	-0.00002	0.02465	0.00003	-0.00178	0.00000	-0.00411

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 SUM            0.27400            2.95120            0.00000            -3.90878            0.18349            -0.23906

Condition **LC29=1.2D+Di+W1120**

43	0.06154	1.23239	0.06021	-1.50467	0.05550	-0.20785
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02447	0.00001	-0.00187	0.00000	-0.00408
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	0.01661	0.79670	-0.14905	-1.14224	-0.09362	-0.12394
86	0.00001	0.02448	-0.00002	-0.00183	0.00000	-0.00408
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	0.01190	0.40879	-0.13937	-0.44040	-0.01197	-0.01476
95	0.00000	0.01299	0.00000	-0.00083	0.00000	-0.00216
99	0.12139	0.37349	0.01677	-0.50328	0.13033	0.10191
100	-0.00001	0.02468	0.00003	-0.00177	0.00000	-0.00411

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 SUM            0.21142            2.95120            -0.21142            -3.59690            0.08023            -0.26794

Condition **LC30=1.2D+Di+W1150**

43	0.06113	1.20796	0.05462	-1.48959	0.05427	-0.20394
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02448	0.00001	-0.00187	0.00000	-0.00408
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	0.05140	0.78209	-0.14894	-1.08687	-0.04500	-0.12120
86	0.00000	0.02450	-0.00001	-0.00183	0.00000	-0.00408
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	0.01691	0.39372	-0.11712	-0.43516	-0.00653	-0.01206
95	0.00000	0.01299	0.00000	-0.00083	0.00000	-0.00217
99	0.12160	0.42759	-0.03961	-0.50628	0.12613	0.09729
100	-0.00001	0.02468	0.00003	-0.00177	0.00000	-0.00411

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 SUM            0.25102            2.95120            -0.25102            -3.52420            0.12887            -0.26321

Condition **LC31=1.2D+Di-W10**

43	0.04383	1.05016	0.02284	-1.37546	0.02713	-0.17555
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	0.00000	0.02451	0.00001	-0.00186	0.00000	-0.00409
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.11742	1.09987	-0.25994	-1.26593	-0.25844	-0.17773
86	0.00003	0.02444	-0.00005	-0.00185	0.00000	-0.00407
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	0.00225	0.24095	-0.01811	-0.29485	-0.00625	-0.00828
95	0.00000	0.01309	0.00000	-0.00086	0.00000	-0.00218
99	0.07132	0.42024	-0.15175	-0.34912	0.06270	0.04314

100	-0.00001	0.02472	0.00002	-0.00176	0.00000	-0.00412
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SUM	0.00000	2.95120	-0.40700	-3.29169	-0.17485	-0.34175
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Condition <b>LC32=1.2D+Di-WI30</b>						
43	0.03838	1.13044	0.05087	-1.38988	0.02649	-0.18708
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	0.00000	0.02451	0.00001	-0.00186	0.00000	-0.00408
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.30650	1.21495	-0.23597	-1.61374	-0.49947	-0.19980
86	0.00006	0.02434	-0.00011	-0.00188	0.00000	-0.00406
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.02441	0.22578	-0.05077	-0.25279	-0.02618	-0.01629
95	0.00001	0.01312	-0.00002	-0.00087	0.00000	-0.00219
99	0.04145	0.24012	-0.01504	-0.27376	0.04478	0.03223
100	-0.00001	0.02475	0.00001	-0.00175	0.00000	-0.00412
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SUM	-0.25102	2.95120	-0.25102	-3.53653	-0.45439	-0.39427
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Condition <b>LC33=1.2D+Di-WI60</b>						
43	0.04276	1.16722	0.05711	-1.42067	0.03154	-0.19373
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	0.00000	0.02450	0.00001	-0.00186	0.00000	-0.00408
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.28453	1.15479	-0.22196	-1.57759	-0.47890	-0.18899
86	0.00005	0.02435	-0.00010	-0.00188	0.00000	-0.00406
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.02330	0.26959	-0.08316	-0.29050	-0.02867	-0.01837
95	0.00001	0.01310	-0.00002	-0.00086	0.00000	-0.00218
99	0.05360	0.21971	0.03669	-0.31254	0.06224	0.04764
100	-0.00001	0.02474	0.00001	-0.00175	0.00000	-0.00412
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SUM	-0.21142	2.95120	-0.21142	-3.60765	-0.41379	-0.37677
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Condition <b>LC34=1.2D+Di-WI90</b>						
43	0.04649	1.32235	0.10196	-1.48293	0.04791	-0.21898
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	0.00000	0.02448	0.00001	-0.00187	0.00000	-0.00408
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.33474	1.06125	-0.12816	-1.78338	-0.53699	-0.17404
86	0.00006	0.02429	-0.00012	-0.00190	0.00000	-0.00405
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.03716	0.32293	-0.14583	-0.32153	-0.04308	-0.02558
95	0.00001	0.01307	-0.00003	-0.00085	0.00000	-0.00218
99	0.05135	0.10490	0.17215	-0.32874	0.07455	0.06145
100	-0.00001	0.02473	0.00001	-0.00175	0.00000	-0.00412
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SUM	-0.27400	2.95120	0.00000	-3.92295	-0.45762	-0.38044

Condition **LC35=1.2D+Di-WI120**

43	0.05578	1.49680	0.14770	-1.57002	0.07211	-0.24842
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02445	0.00001	-0.00188	0.00000	-0.00408
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.29718	0.86201	-0.01287	-1.86061	-0.48157	-0.13988
86	0.00006	0.02426	-0.00011	-0.00190	0.00000	-0.00404
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.04034	0.41799	-0.22554	-0.39717	-0.05251	-0.03175
95	0.00001	0.01302	-0.00004	-0.00084	0.00000	-0.00217
99	0.07027	0.03476	0.30225	-0.40091	0.10766	0.09174
100	-0.00001	0.02471	0.00002	-0.00176	0.00000	-0.00412
-----						
SUM	-0.21142	2.95120	0.21142	-4.23509	-0.35431	-0.35158

Condition **LC36=1.2D+Di-WI150**

43	0.05619	1.52125	0.15328	-1.58509	0.07335	-0.25233
45	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
80	-0.00001	0.02445	0.00001	-0.00188	0.00000	-0.00407
81	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
85	-0.33202	0.87662	-0.01296	-1.91606	-0.53024	-0.14263
86	0.00006	0.02424	-0.00012	-0.00191	0.00000	-0.00404
89	0.00000	0.01330	0.00000	0.00092	0.00000	-0.00222
90	0.00000	0.01330	0.00000	-0.00092	0.00000	-0.00222
94	-0.04538	0.43306	-0.24781	-0.40240	-0.05796	-0.03445
95	0.00001	0.01302	-0.00004	-0.00084	0.00000	-0.00217
99	0.07012	-0.01935	0.35863	-0.39790	0.11187	0.09635
100	-0.00001	0.02471	0.00002	-0.00176	0.00000	-0.00412
-----						
SUM	-0.25102	2.95120	0.25102	-4.30783	-0.40299	-0.35632

Condition **LC37=1.2D+1.6LL1**

43	0.04135	0.97713	0.06868	-1.12978	0.04692	-0.16317
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01409	0.00001	-0.00111	0.00000	-0.00235
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.10019	0.63903	-0.05488	-1.11236	-0.19130	-0.10206
86	0.00002	0.01399	-0.00004	-0.00110	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00567	0.26096	-0.10333	-0.27757	-0.01685	-0.01289
95	0.00000	0.00710	-0.00001	-0.00045	0.00000	-0.00118
99	0.06451	0.14865	0.08956	-0.30282	0.07879	0.06414
100	-0.00001	0.01424	0.00002	-0.00102	0.00000	-0.00237
-----						
SUM	0.00000	2.10440	0.00000	-2.82620	-0.08244	-0.22708

Condition **LC38=1.2D+1.6LL2**

43	0.05358	0.95475	0.06546	-1.10891	0.04935	-0.16165
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01410	0.00001	-0.00111	0.00000	-0.00235
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.13550	0.43383	-0.03973	-0.82724	-0.29504	-0.06595
86	0.00003	0.01408	-0.00006	-0.00107	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.02072	0.38510	-0.13051	-0.43353	-0.02915	-0.01901
95	0.00001	0.00699	-0.00002	-0.00041	0.00000	-0.00117
99	0.10262	0.25216	0.10482	-0.46873	0.12104	0.09902

100	-0.00001	0.01419	0.00003	-0.00104	0.00000	-0.00236
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SUM	0.00000	2.10440	0.00000	-2.84204	-0.15382	-0.16068
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Condition <b>LC39=1.2D+1.6LL3</b>						
43	0.02636	0.98762	0.07431	-1.12637	0.03509	-0.16238
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01409	0.00001	-0.00111	0.00000	-0.00235
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.04316	0.84804	-0.07010	-1.38819	-0.08031	-0.13905
86	0.00001	0.01391	-0.00002	-0.00113	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00418	0.14151	-0.07521	-0.12907	-0.01171	-0.00899
95	0.00000	0.00721	-0.00001	-0.00048	0.00000	-0.00120
99	0.02098	0.04853	0.07101	-0.13704	0.03190	0.02579
100	0.00000	0.01429	0.00001	-0.00101	0.00000	-0.00238
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SUM	0.00000	2.10440	0.00000	-2.78440	-0.02504	-0.29774
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Condition <b>LC40=1.2D+WL0+1.6LLa1</b>						
43	0.06298	1.29420	0.11429	-1.42365	0.07072	-0.21737
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.16038	0.57140	-0.02569	-1.30661	-0.29013	-0.08857
86	0.00003	0.01393	-0.00006	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00660	0.45222	-0.23910	-0.44640	-0.03306	-0.02429
95	0.00001	0.00699	-0.00002	-0.00041	0.00000	-0.00116
99	0.10398	0.10828	0.26454	-0.47687	0.13930	0.11809
100	-0.00001	0.01418	0.00003	-0.00104	0.00000	-0.00236
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SUM	0.00000	2.50440	0.11400	-3.65724	-0.11318	-0.22520
<hr/>						
Condition <b>LC41=1.2D+WL30+1.6LLa1</b>						
43	0.06441	1.27351	0.10756	-1.41818	0.07137	-0.21441
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.10495	0.53397	-0.02847	-1.21133	-0.21814	-0.08154
86	0.00003	0.01396	-0.00005	-0.00111	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00098	0.45396	-0.22660	-0.45717	-0.02705	-0.02178
95	0.00000	0.00698	-0.00001	-0.00041	0.00000	-0.00116
99	0.11168	0.16465	0.21965	-0.49776	0.14328	0.12020
100	-0.00001	0.01418	0.00003	-0.00104	0.00000	-0.00236
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SUM	0.07212	2.50440	0.07212	-3.58813	-0.03053	-0.21059

Condition **LC42=1.2D+WL60+1.6LLa1**

43	0.06284	1.26063	0.10554	-1.40685	0.06965	-0.21208
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.11269	0.55494	-0.03399	-1.22454	-0.22555	-0.08532
86	0.00003	0.01396	-0.00005	-0.00111	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00051	0.43765	-0.21387	-0.44372	-0.02606	-0.02096
95	0.00000	0.00699	-0.00001	-0.00041	0.00000	-0.00116
99	0.10731	0.17285	0.20031	-0.48402	0.13693	0.11458
100	-0.00001	0.01418	0.00003	-0.00104	0.00000	-0.00236
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SUM	0.05798	2.50440	0.05798	-3.56283	-0.04503	-0.21684

Condition **LC43=1.2D+WL90+1.6LLa1**

43	0.06151	1.21618	0.09276	-1.38874	0.06460	-0.20479
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.10240	0.58706	-0.05993	-1.17375	-0.21387	-0.09057
86	0.00002	0.01397	-0.00005	-0.00111	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00395	0.42051	-0.19573	-0.43244	-0.02224	-0.01898
95	0.00000	0.00700	-0.00001	-0.00041	0.00000	-0.00117
99	0.10694	0.20229	0.16292	-0.47627	0.13245	0.10988
100	-0.00001	0.01418	0.00003	-0.00104	0.00000	-0.00236
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SUM	0.07000	2.50440	0.00000	-3.47489	-0.03905	-0.21753

Condition **LC44=1.2D+WL120+1.6LLa1**

43	0.05924	1.16805	0.07982	-1.36583	0.05808	-0.19672
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.10929	0.63735	-0.08990	-1.14489	-0.22500	-0.09914
86	0.00003	0.01398	-0.00005	-0.00111	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00529	0.39628	-0.17431	-0.41393	-0.01940	-0.01723
95	0.00000	0.00701	-0.00001	-0.00042	0.00000	-0.00117
99	0.10274	0.22431	0.12643	-0.45937	0.12431	0.10231
100	-0.00001	0.01419	0.00003	-0.00104	0.00000	-0.00236
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SUM	0.05798	2.50440	-0.05798	-3.38770	-0.06201	-0.22384

Condition **LC45=1.2D+WL150+1.6LLa1**

43	0.05906	1.15961	0.07803	-1.36014	0.05770	-0.19537
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.09665	0.63195	-0.09041	-1.12593	-0.20739	-0.09813
86	0.00002	0.01399	-0.00004	-0.00110	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00706	0.39009	-0.16515	-0.41185	-0.01734	-0.01618
95	0.00000	0.00701	-0.00001	-0.00042	0.00000	-0.00117
99	0.10265	0.24434	0.10542	-0.46031	0.12261	0.10048

100	-0.00001	0.01419	0.00003	-0.00104	0.00000	-0.00236
-----						
SUM	0.07212	2.50440	-0.07212	-3.36192	-0.04442	-0.22227
Condition <b>LC46=1.2D-WL0+1.6LLa1</b>						
43	0.05381	1.11665	0.07022	-1.32604	0.05036	-0.18754
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.14374	0.72119	-0.11828	-1.18512	-0.26497	-0.11410
86	0.00003	0.01397	-0.00006	-0.00111	0.00000	-0.00233
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00278	0.34254	-0.13360	-0.36878	-0.01694	-0.01486
95	0.00000	0.00704	-0.00001	-0.00043	0.00000	-0.00117
99	0.08713	0.24557	0.06769	-0.41264	0.10287	0.08359
100	-0.00001	0.01420	0.00002	-0.00103	0.00000	-0.00237
-----						
SUM	0.00000	2.50440	-0.11400	-3.29628	-0.12867	-0.24598
Condition <b>LC47=1.2D-WL30+1.6LLa1</b>						
43	0.05238	1.13732	0.07694	-1.33149	0.04970	-0.19050
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.19917	0.75863	-0.11551	-1.28037	-0.33695	-0.12113
86	0.00004	0.01394	-0.00007	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00479	0.34079	-0.14608	-0.35800	-0.02295	-0.01737
95	0.00000	0.00705	-0.00001	-0.00043	0.00000	-0.00117
99	0.07943	0.18923	0.11258	-0.39176	0.09888	0.08147
100	-0.00001	0.01421	0.00002	-0.00103	0.00000	-0.00237
-----						
SUM	-0.07212	2.50440	-0.07212	-3.36532	-0.21132	-0.26060
Condition <b>LC48=1.2D-WL60+1.6LLa1</b>						
43	0.05395	1.15019	0.07897	-1.34282	0.05142	-0.19283
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.19144	0.73768	-0.10999	-1.26717	-0.32955	-0.11735
86	0.00004	0.01394	-0.00007	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00432	0.35708	-0.15882	-0.37143	-0.02393	-0.01818
95	0.00000	0.00704	-0.00001	-0.00043	0.00000	-0.00117
99	0.08380	0.18104	0.13192	-0.40549	0.10523	0.08708
100	-0.00001	0.01421	0.00002	-0.00103	0.00000	-0.00237
-----						
SUM	-0.05798	2.50440	-0.05798	-3.39061	-0.19683	-0.25435

Condition **LC49=1.2D-WL90+1.6LLa1**

43	0.05529	1.19461	0.09175	-1.36091	0.05647	-0.20011
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.20174	0.70558	-0.08404	-1.31796	-0.34124	-0.11211
86	0.00004	0.01393	-0.00007	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00775	0.37419	-0.17696	-0.38269	-0.02775	-0.02016
95	0.00001	0.00703	-0.00002	-0.00042	0.00000	-0.00117
99	0.08418	0.15163	0.16931	-0.41324	0.10971	0.09178
100	-0.00001	0.01420	0.00002	-0.00103	0.00000	-0.00237
-----						
SUM	-0.07000	2.50440	0.00000	-3.47851	-0.20281	-0.25367

Condition **LC50=1.2D-WL120+1.6LLa1**

43	0.05756	1.24274	0.10469	-1.38382	0.06300	-0.20818
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.19485	0.65529	-0.05407	-1.34685	-0.33010	-0.10354
86	0.00004	0.01392	-0.00007	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00910	0.39841	-0.19838	-0.40120	-0.03059	-0.02192
95	0.00001	0.00702	-0.00002	-0.00042	0.00000	-0.00117
99	0.08838	0.12960	0.20580	-0.43015	0.11785	0.09934
100	-0.00001	0.01420	0.00002	-0.00104	0.00000	-0.00237
-----						
SUM	-0.05798	2.50440	0.05798	-3.56572	-0.17985	-0.24735

Condition **LC51=1.2D-WL150+1.6LLa1**

43	0.05774	1.25119	0.10648	-1.38951	0.06338	-0.20954
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.20749	0.66069	-0.05356	-1.36580	-0.34772	-0.10454
86	0.00004	0.01391	-0.00008	-0.00113	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01087	0.40461	-0.20754	-0.40328	-0.03265	-0.02296
95	0.00001	0.00702	-0.00002	-0.00042	0.00000	-0.00117
99	0.08848	0.10957	0.22681	-0.42920	0.11955	0.10117
100	-0.00001	0.01420	0.00002	-0.00104	0.00000	-0.00237
-----						
SUM	-0.07212	2.50440	0.07212	-3.59151	-0.19744	-0.24893

Condition **LC52=1.2D+WL0+1.6LLa2**

43	0.08019	1.24854	0.09999	-1.40883	0.07367	-0.21298
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.22423	0.32130	0.01036	-0.89906	-0.47081	-0.04410
86	0.00006	0.01406	-0.00010	-0.00108	0.00000	-0.00234
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.02680	0.66690	-0.34878	-0.66752	-0.05783	-0.03811
95	0.00001	0.00683	-0.00004	-0.00036	0.00000	-0.00114
99	0.17080	0.18945	0.35252	-0.70577	0.21216	0.17812

100	-0.00002	0.01411	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	0.00000	2.50440	0.11400	-3.68481	-0.24282	-0.13010
Condition <b>LC53=1.2D+WL30+1.6LLa2</b>						
43	0.08161	1.22823	0.09331	-1.40374	0.07434	-0.21007
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00002	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.16883	0.28448	0.00751	-0.80481	-0.39873	-0.03717
86	0.00005	0.01409	-0.00009	-0.00107	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01923	0.66933	-0.33786	-0.67806	-0.05198	-0.03571
95	0.00001	0.00682	-0.00003	-0.00036	0.00000	-0.00114
99	0.17854	0.24415	0.30923	-0.72621	0.21624	0.18033
100	-0.00002	0.01411	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	0.07212	2.50440	0.07212	-3.61645	-0.16014	-0.11566
Condition <b>LC54=1.2D+WL60+1.6LLa2</b>						
43	0.08008	1.21557	0.09131	-1.39263	0.07264	-0.20778
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.17671	0.30503	0.00200	-0.81762	-0.40642	-0.04087
86	0.00005	0.01408	-0.00009	-0.00107	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01970	0.65369	-0.32597	-0.66497	-0.05108	-0.03495
95	0.00001	0.00683	-0.00003	-0.00036	0.00000	-0.00114
99	0.17428	0.25188	0.29071	-0.71284	0.21007	0.17488
100	-0.00002	0.01411	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	0.05798	2.50440	0.05798	-3.59169	-0.17480	-0.12176
Condition <b>LC55=1.2D+WL90+1.6LLa2</b>						
43	0.07880	1.17151	0.07857	-1.37493	0.06763	-0.20056
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.16660	0.33696	-0.02397	-0.76680	-0.39502	-0.04609
86	0.00005	0.01410	-0.00009	-0.00107	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01628	0.63759	-0.30944	-0.65400	-0.04742	-0.03308
95	0.00001	0.00684	-0.00003	-0.00036	0.00000	-0.00114
99	0.17405	0.28007	0.25490	-0.70532	0.20584	0.17041
100	-0.00002	0.01411	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	0.07000	2.50440	0.00000	-3.50468	-0.16898	-0.12236



Condition **LC56=1.2D+WL120+1.6LLa2**

43	0.07659	1.12380	0.06567	-1.35245	0.06115	-0.19257
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.17368	0.38698	-0.05396	-0.73783	-0.40648	-0.05460
86	0.00005	0.01411	-0.00009	-0.00107	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01496	0.61445	-0.28965	-0.63585	-0.04475	-0.03143
95	0.00001	0.00685	-0.00003	-0.00037	0.00000	-0.00114
99	0.17000	0.30088	0.22002	-0.68871	0.19797	0.16309
100	-0.00002	0.01412	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	0.05798	2.50440	-0.05798	-3.41845	-0.19211	-0.12855

Condition **LC57=1.2D+WL150+1.6LLa2**

43	0.07642	1.11556	0.06390	-1.34697	0.06078	-0.19125
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.16108	0.38174	-0.05449	-0.71921	-0.38889	-0.05362
86	0.00005	0.01411	-0.00008	-0.00106	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01319	0.60867	-0.28130	-0.63375	-0.04277	-0.03044
95	0.00001	0.00685	-0.00003	-0.00037	0.00000	-0.00114
99	0.16995	0.32013	0.19983	-0.68956	0.19635	0.16134
100	-0.00002	0.01412	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	0.07212	2.50440	-0.07212	-3.39311	-0.17454	-0.12701

Condition **LC58=1.2D-WL0+1.6LLa2**

43	0.07129	1.07305	0.05614	-1.31334	0.05350	-0.18351
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01403	0.00001	-0.00112	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.20852	0.46987	-0.08235	-0.77720	-0.44718	-0.06938
86	0.00005	0.01409	-0.00010	-0.00107	0.00000	-0.00235
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01749	0.56259	-0.25147	-0.59160	-0.04253	-0.02922
95	0.00001	0.00688	-0.00003	-0.00038	0.00000	-0.00115
99	0.15469	0.32055	0.16376	-0.64288	0.17704	0.14483
100	-0.00002	0.01413	0.00004	-0.00106	0.00000	-0.00236
-----						
SUM	0.00000	2.50440	-0.11400	-3.32866	-0.25918	-0.15034

Condition **LC59=1.2D-WL30+1.6LLa2**

43	0.06986	1.09334	0.06282	-1.31841	0.05283	-0.18641
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01403	0.00001	-0.00112	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.26392	0.50670	-0.07952	-0.87142	-0.51926	-0.07631
86	0.00006	0.01407	-0.00011	-0.00108	0.00000	-0.00234
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.02505	0.56014	-0.26238	-0.58105	-0.04838	-0.03163
95	0.00001	0.00689	-0.00003	-0.00038	0.00000	-0.00115
99	0.14694	0.26588	0.20705	-0.62244	0.17295	0.14262

100	-0.00002	0.01414	0.00004	-0.00105	0.00000	-0.00236
-----						
SUM	-0.07212	2.50440	-0.07212	-3.39696	-0.34187	-0.16478
Condition <b>LC60=1.2D-WL60+1.6LLa2</b>						
43	0.07139	1.10599	0.06482	-1.32951	0.05453	-0.18870
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.25605	0.48616	-0.07400	-0.85862	-0.51157	-0.07261
86	0.00006	0.01407	-0.00011	-0.00108	0.00000	-0.00234
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.02458	0.57576	-0.27427	-0.59413	-0.04928	-0.03238
95	0.00001	0.00688	-0.00003	-0.00038	0.00000	-0.00115
99	0.15121	0.25817	0.22557	-0.63581	0.17911	0.14807
100	-0.00002	0.01413	0.00004	-0.00105	0.00000	-0.00236
-----						
SUM	-0.05798	2.50440	-0.05798	-3.42170	-0.32721	-0.15868
Condition <b>LC61=1.2D-WL90+1.6LLa2</b>						
43	0.07267	1.15002	0.07756	-1.34721	0.05954	-0.19592
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.26617	0.45427	-0.04803	-0.90944	-0.52298	-0.06740
86	0.00006	0.01405	-0.00011	-0.00108	0.00000	-0.00234
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.02800	0.59183	-0.29081	-0.60508	-0.05294	-0.03425
95	0.00001	0.00687	-0.00003	-0.00038	0.00000	-0.00115
99	0.15144	0.22999	0.26138	-0.64333	0.18334	0.15253
100	-0.00002	0.01413	0.00004	-0.00106	0.00000	-0.00236
-----						
SUM	-0.07000	2.50440	0.00000	-3.50869	-0.33303	-0.15809
Condition <b>LC62=1.2D-WL120+1.6LLa2</b>						
43	0.07488	1.19774	0.09045	-1.36969	0.06603	-0.20391
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.25908	0.40424	-0.01804	-0.93843	-0.51152	-0.05889
86	0.00006	0.01404	-0.00011	-0.00109	0.00000	-0.00234
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.02933	0.61497	-0.31060	-0.62323	-0.05561	-0.03590
95	0.00001	0.00686	-0.00004	-0.00037	0.00000	-0.00114
99	0.15550	0.20919	0.29626	-0.65994	0.19121	0.15985
100	-0.00002	0.01413	0.00004	-0.00106	0.00000	-0.00235
-----						
SUM	-0.05798	2.50440	0.05798	-3.59493	-0.30990	-0.15190

Condition **LC63=1.2D-WL150+1.6LLa2**

43	0.07506	1.20598	0.09222	-1.37517	0.06640	-0.20523
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.27169	0.40949	-0.01750	-0.95706	-0.52911	-0.05987
86	0.00006	0.01404	-0.00012	-0.00109	0.00000	-0.00234
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.03109	0.62075	-0.31895	-0.62532	-0.05758	-0.03689
95	0.00001	0.00686	-0.00004	-0.00037	0.00000	-0.00114
99	0.15555	0.18994	0.31645	-0.65908	0.19283	0.16159
100	-0.00002	0.01413	0.00004	-0.00106	0.00000	-0.00235
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SUM	-0.07212	2.50440	0.07212	-3.62027	-0.32747	-0.15344

Condition **LC64=1.2D+WL0+1.6LLa3**

43	0.05407	1.30832	0.12023	-1.42286	0.06859	-0.21813
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.12490	0.69017	-0.04051	-1.49458	-0.20998	-0.10973
86	0.00002	0.01387	-0.00005	-0.00114	0.00000	-0.00231
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00594	0.35868	-0.19237	-0.34963	-0.02633	-0.01953
95	0.00000	0.00705	-0.00001	-0.00043	0.00000	-0.00118
99	0.07676	0.06888	0.22668	-0.37149	0.10747	0.09140
100	-0.00001	0.01422	0.00002	-0.00103	0.00000	-0.00237
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SUM	0.00000	2.50440	0.11400	-3.64230	-0.06025	-0.26905

Condition **LC65=1.2D+WL30+1.6LLa3**

43	0.05550	1.28767	0.11351	-1.41743	0.06925	-0.21518
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.06946	0.65272	-0.04329	-1.39929	-0.13799	-0.10270
86	0.00002	0.01390	-0.00003	-0.00113	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00163	0.36044	-0.17988	-0.36044	-0.02032	-0.01702
95	0.00000	0.00705	-0.00001	-0.00043	0.00000	-0.00117
99	0.08446	0.12521	0.18179	-0.39238	0.11147	0.09353
100	-0.00001	0.01421	0.00002	-0.00103	0.00000	-0.00237
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SUM	0.07212	2.50440	0.07212	-3.57327	0.02241	-0.25443

Condition **LC66=1.2D+WL60+1.6LLa3**

43	0.05393	1.27478	0.11149	-1.40610	0.06752	-0.21284
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01400	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.07719	0.67369	-0.04881	-1.41250	-0.14539	-0.10647
86	0.00002	0.01390	-0.00003	-0.00113	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00116	0.34415	-0.16713	-0.34699	-0.01934	-0.01621
95	0.00000	0.00706	-0.00001	-0.00043	0.00000	-0.00118
99	0.08008	0.13340	0.16244	-0.37864	0.10512	0.08791

100	-0.00001	0.01422	0.00002	-0.00103	0.00000	-0.00237
<hr/>						
SUM	0.05798	2.50440	0.05798	-3.54796	0.00791	-0.26068
<hr/>						
Condition <b>LC67=1.2D+WL90+1.6LLa3</b>						
43	0.05259	1.23036	0.09871	-1.38801	0.06247	-0.20556
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.06690	0.70579	-0.07476	-1.36170	-0.13370	-0.11172
86	0.00001	0.01391	-0.00003	-0.00113	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00460	0.32704	-0.14899	-0.33574	-0.01552	-0.01423
95	0.00000	0.00706	-0.00001	-0.00043	0.00000	-0.00118
99	0.07971	0.16281	0.12504	-0.37088	0.10064	0.08322
100	-0.00001	0.01422	0.00002	-0.00103	0.00000	-0.00237
<hr/>						
SUM	0.07000	2.50440	0.00000	-3.46005	0.01390	-0.26136
<hr/>						
Condition <b>LC68=1.2D+WL120+1.6LLa3</b>						
43	0.05032	1.18225	0.08578	-1.36511	0.05595	-0.19750
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.07378	0.75605	-0.10472	-1.33282	-0.14482	-0.12028
86	0.00002	0.01392	-0.00003	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00594	0.30284	-0.12757	-0.31723	-0.01269	-0.01248
95	0.00000	0.00708	-0.00001	-0.00044	0.00000	-0.00118
99	0.07550	0.18482	0.08854	-0.35397	0.09251	0.07566
100	-0.00001	0.01422	0.00002	-0.00103	0.00000	-0.00237
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SUM	0.05798	2.50440	-0.05798	-3.37286	-0.00906	-0.26767
<hr/>						
Condition <b>LC69=1.2D+WL150+1.6LLa3</b>						
43	0.05014	1.17381	0.08398	-1.35943	0.05556	-0.19614
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.06114	0.75065	-0.10523	-1.31386	-0.12721	-0.11928
86	0.00001	0.01393	-0.00003	-0.00112	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00771	0.29666	-0.11840	-0.31517	-0.01063	-0.01144
95	0.00000	0.00708	0.00000	-0.00044	0.00000	-0.00118
99	0.07541	0.20483	0.06752	-0.35492	0.09081	0.07384
100	-0.00001	0.01422	0.00002	-0.00103	0.00000	-0.00237
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SUM	0.07212	2.50440	-0.07212	-3.34710	0.00853	-0.26609

Condition **LC70=1.2D-WL0+1.6LLa3**

43	0.04489	1.13084	0.07617	-1.32531	0.04822	-0.18831
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.10823	0.83988	-0.13310	-1.37304	-0.18477	-0.13524
86	0.00002	0.01391	-0.00004	-0.00113	0.00000	-0.00232
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	0.00344	0.24915	-0.08682	-0.27210	-0.01023	-0.01012
95	0.00000	0.00711	-0.00001	-0.00045	0.00000	-0.00118
99	0.05989	0.20605	0.02977	-0.30722	0.07107	0.05694
100	-0.00001	0.01424	0.00002	-0.00102	0.00000	-0.00237

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SUM            0.00000            2.50440            -0.11400            -3.28140            -0.07572            -0.28981

Condition **LC71=1.2D-WL30+1.6LLa3**

43	0.04346	1.15147	0.08290	-1.33073	0.04756	-0.19126
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.16366	0.87734	-0.13033	-1.46830	-0.25676	-0.14227
86	0.00003	0.01388	-0.00005	-0.00114	0.00000	-0.00231
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00412	0.24737	-0.09931	-0.26128	-0.01625	-0.01263
95	0.00000	0.00712	-0.00001	-0.00045	0.00000	-0.00119
99	0.05219	0.14974	0.07466	-0.28632	0.06706	0.05480
100	-0.00001	0.01424	0.00001	-0.00102	0.00000	-0.00237

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SUM            -0.07212            2.50440            -0.07212            -3.35037            -0.15838            -0.30444

Condition **LC72=1.2D-WL60+1.6LLa3**

43	0.04503	1.16434	0.08492	-1.34205	0.04928	-0.19360
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.15594	0.85638	-0.12482	-1.45510	-0.24936	-0.13850
86	0.00003	0.01389	-0.00005	-0.00113	0.00000	-0.00231
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00366	0.26364	-0.11205	-0.27471	-0.01722	-0.01344
95	0.00000	0.00711	-0.00001	-0.00045	0.00000	-0.00118
99	0.05656	0.14157	0.09401	-0.30007	0.07341	0.06042
100	-0.00001	0.01424	0.00002	-0.00102	0.00000	-0.00237

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SUM            -0.05798            2.50440            -0.05798            -3.37567            -0.14389            -0.29820

Condition **LC73=1.2D-WL90+1.6LLa3**

43	0.04637	1.20875	0.09770	-1.36013	0.05434	-0.20088
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.16624	0.82431	-0.09886	-1.50590	-0.26105	-0.13325
86	0.00003	0.01387	-0.00006	-0.00114	0.00000	-0.00231
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00709	0.28073	-0.13020	-0.28595	-0.02104	-0.01542
95	0.00000	0.00710	-0.00001	-0.00044	0.00000	-0.00118
99	0.05694	0.11218	0.13141	-0.30782	0.07788	0.06510

100	-0.00001	0.01424	0.00002	-0.00102	0.00000	-0.00237
<hr/>						
SUM	-0.07000	2.50440	0.00000	-3.46355	-0.14988	-0.29752
<hr/>						
Condition <b>LC74=1.2D-WL120+1.6LLa3</b>						
43	0.04864	1.25686	0.11063	-1.38303	0.06087	-0.20894
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.15935	0.77405	-0.06889	-1.53480	-0.24993	-0.12470
86	0.00003	0.01386	-0.00005	-0.00114	0.00000	-0.00231
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00844	0.30492	-0.15162	-0.30445	-0.02387	-0.01717
95	0.00000	0.00709	-0.00001	-0.00044	0.00000	-0.00118
99	0.06115	0.09018	0.16791	-0.32473	0.08602	0.07266
100	-0.00001	0.01423	0.00002	-0.00103	0.00000	-0.00237
<hr/>						
SUM	-0.05798	2.50440	0.05798	-3.55075	-0.12692	-0.29121
<hr/>						
Condition <b>LC75=1.2D-WL150+1.6LLa3</b>						
43	0.04882	1.26530	0.11242	-1.38871	0.06125	-0.21030
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.17200	0.77946	-0.06838	-1.55377	-0.26755	-0.12570
86	0.00003	0.01386	-0.00006	-0.00114	0.00000	-0.00231
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01021	0.31110	-0.16079	-0.30652	-0.02593	-0.01821
95	0.00000	0.00708	-0.00002	-0.00044	0.00000	-0.00118
99	0.06125	0.07016	0.18892	-0.32378	0.08772	0.07448
100	-0.00001	0.01423	0.00002	-0.00103	0.00000	-0.00237
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SUM	-0.07212	2.50440	0.07212	-3.57652	-0.14452	-0.29279
<hr/>						
Condition <b>LC76=1.2D-WL0+1.6LLa4</b>						
43	0.03108	1.31878	0.13418	-1.39039	0.05872	-0.21600
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00233
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.03167	0.96373	-0.06601	-1.88968	-0.06576	-0.15862
86	0.00001	0.01375	-0.00001	-0.00118	0.00000	-0.00229
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01391	0.16618	-0.10536	-0.14389	-0.01961	-0.01265
95	0.00000	0.00720	-0.00001	-0.00048	0.00000	-0.00120
99	0.01450	-0.02275	0.15120	-0.14278	0.03554	0.03139
100	0.00000	0.01429	0.00001	-0.00101	0.00000	-0.00238
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SUM	0.00000	2.50440	0.11400	-3.57054	0.00889	-0.36895

Condition **LC77=1.2D+WL30+1.6LLa4**

43	0.03246	1.29857	0.12764	-1.38495	0.05942	-0.21311
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.02406	0.92657	-0.06903	-1.79594	0.00675	-0.15165
86	0.00000	0.01378	0.00000	-0.00117	0.00000	-0.00230
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00638	0.16755	-0.09267	-0.15429	-0.01359	-0.01012
95	0.00000	0.00719	-0.00001	-0.00047	0.00000	-0.00120
99	0.02199	0.03324	0.10617	-0.16315	0.03937	0.03339
100	0.00000	0.01428	0.00001	-0.00101	0.00000	-0.00238
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SUM	0.07212	2.50440	0.07212	-3.50211	0.09195	-0.35456

Condition **LC78=1.2D+WL60+1.6LLa4**

43	0.03089	1.28582	0.12568	-1.37358	0.05773	-0.21079
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01401	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.01634	0.94726	-0.07461	-1.80915	-0.00068	-0.15538
86	0.00000	0.01378	0.00000	-0.00117	0.00000	-0.00230
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00686	0.15132	-0.07987	-0.14094	-0.01262	-0.00932
95	0.00000	0.00720	-0.00001	-0.00048	0.00000	-0.00120
99	0.01762	0.04151	0.08677	-0.14949	0.03303	0.02779
100	0.00000	0.01429	0.00001	-0.00101	0.00000	-0.00238
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SUM	0.05798	2.50440	0.05798	-3.47694	0.07745	-0.36078

Condition **LC79=1.2D+WL90+1.6LLa4**

43	0.02953	1.24218	0.11327	-1.35531	0.05282	-0.20363
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	-0.00001	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.02686	0.97860	-0.10098	-1.75951	0.01125	-0.16050
86	0.00000	0.01379	0.00000	-0.00116	0.00000	-0.00230
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00351	0.13406	-0.06141	-0.12967	-0.00882	-0.00734
95	0.00000	0.00721	-0.00001	-0.00048	0.00000	-0.00120
99	0.01713	0.07105	0.04909	-0.14167	0.02847	0.02303
100	0.00000	0.01429	0.00001	-0.00101	0.00000	-0.00238
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SUM	0.07000	2.50440	0.00000	-3.38995	0.08372	-0.36153

Condition **LC80=1.2D+WL120+1.6LLa4**

43	0.02725	1.19484	0.10070	-1.33223	0.04645	-0.19569
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.02014	1.02790	-0.13134	-1.73152	0.00027	-0.16891
86	0.00000	0.01380	0.00000	-0.00116	0.00000	-0.00230
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00225	0.10981	-0.03967	-0.11128	-0.00601	-0.00559
95	0.00000	0.00722	0.00000	-0.00048	0.00000	-0.00120
99	0.01285	0.09330	0.01232	-0.12484	0.02028	0.01543

100	0.00000	0.01430	0.00000	-0.00101	0.00000	-0.00238
-----						
SUM	0.05798	2.50440	-0.05798	-3.30365	0.06099	-0.36785
Condition <b>LC81=1.2D+WL150+1.6LLa4</b>						
43	0.02706	1.18657	0.09898	-1.32653	0.04609	-0.19436
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	0.03286	1.02245	-0.13193	-1.71292	0.01799	-0.16790
86	0.00000	0.01381	0.00001	-0.00116	0.00000	-0.00230
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00050	0.10357	-0.03044	-0.10916	-0.00396	-0.00455
95	0.00000	0.00722	0.00000	-0.00048	0.00000	-0.00120
99	0.01271	0.11326	-0.00875	-0.12570	0.01855	0.01359
100	0.00000	0.01429	0.00000	-0.00101	0.00000	-0.00238
-----						
SUM	0.07212	2.50440	-0.07212	-3.27809	0.07867	-0.36631
Condition <b>LC82=1.2D-WL0+1.6LLa4</b>						
43	0.02184	1.14393	0.09135	-1.29228	0.03885	-0.18660
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01404	0.00001	-0.00112	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.01432	1.11050	-0.15996	-1.77152	-0.03989	-0.18366
86	0.00000	0.01379	-0.00001	-0.00117	0.00000	-0.00230
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.00481	0.05645	0.00126	-0.06661	-0.00361	-0.00326
95	0.00000	0.00725	0.00000	-0.00049	0.00000	-0.00121
99	-0.00272	0.11493	-0.04665	-0.07851	-0.00108	-0.00322
100	0.00000	0.01431	0.00000	-0.00100	0.00000	-0.00238
-----						
SUM	0.00000	2.50440	-0.11400	-3.21270	-0.00573	-0.38982
Condition <b>LC83=1.2D-WL30+1.6LLa4</b>						
43	0.02046	1.16412	0.09789	-1.29770	0.03815	-0.18948
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01404	0.00001	-0.00112	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.07005	1.14766	-0.15695	-1.86523	-0.11239	-0.19063
86	0.00001	0.01376	-0.00002	-0.00117	0.00000	-0.00229
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01233	0.05507	-0.01143	-0.05620	-0.00963	-0.00578
95	0.00000	0.00726	-0.00001	-0.00049	0.00000	-0.00121
99	-0.01022	0.05897	-0.00161	-0.05813	-0.00492	-0.00523
100	0.00000	0.01432	0.00000	-0.00100	0.00000	-0.00239
-----						
SUM	-0.07212	2.50440	-0.07212	-3.28106	-0.08879	-0.40422



Condition **LC84=1.2D-WL60+1.6LLa4**

43	0.02203	1.17686	0.09985	-1.30906	0.03984	-0.19179
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00112	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.06233	1.12699	-0.15137	-1.85203	-0.10497	-0.18691
86	0.00001	0.01376	-0.00002	-0.00117	0.00000	-0.00229
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01185	0.07127	-0.02423	-0.06953	-0.01059	-0.00659
95	0.00000	0.00725	-0.00001	-0.00049	0.00000	-0.00121
99	-0.00585	0.05072	0.01778	-0.07180	0.00142	0.00037
100	0.00000	0.01431	0.00000	-0.00100	0.00000	-0.00239

---

SUM            -0.05798            2.50440            -0.05798            -3.30622            -0.07430            -0.39801

Condition **LC85=1.2D-WL90+1.6LLa4**

43	0.02339	1.22048	0.11226	-1.32731	0.04475	-0.19895
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01403	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.07285	1.09568	-0.12500	-1.90167	-0.11691	-0.18178
86	0.00001	0.01375	-0.00002	-0.00118	0.00000	-0.00229
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01520	0.08851	-0.04269	-0.08078	-0.01439	-0.00856
95	0.00000	0.00724	-0.00001	-0.00049	0.00000	-0.00121
99	-0.00535	0.02120	0.05546	-0.07961	0.00598	0.00512
100	0.00000	0.01431	0.00000	-0.00100	0.00000	-0.00238

---

SUM            -0.07000            2.50440            0.00000            -3.39317            -0.08058            -0.39726

Condition **LC86=1.2D-WL120+1.6LLa4**

43	0.02567	1.26782	0.12482	-1.35040	0.05112	-0.20689
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.06614	1.04638	-0.09462	-1.92969	-0.10593	-0.17338
86	0.00001	0.01374	-0.00002	-0.00118	0.00000	-0.00229
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01646	0.11275	-0.06443	-0.09917	-0.01719	-0.01031
95	0.00000	0.00723	-0.00001	-0.00049	0.00000	-0.00121
99	-0.00106	-0.00105	0.09223	-0.09645	0.01416	0.01272
100	0.00000	0.01430	0.00000	-0.00100	0.00000	-0.00238

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SUM            -0.05798            2.50440            0.05798            -3.47949            -0.05784            -0.39094

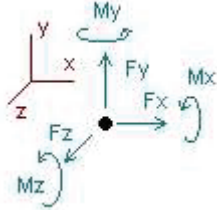
Condition **LC87=1.2D-WL150+1.6LLa4**

43	0.02586	1.27609	0.12655	-1.35609	0.05148	-0.20822
45	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
80	0.00000	0.01402	0.00001	-0.00113	0.00000	-0.00234
81	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
85	-0.07886	1.05183	-0.09403	-1.94829	-0.12366	-0.17439
86	0.00001	0.01373	-0.00003	-0.00118	0.00000	-0.00229
89	0.00000	0.00730	0.00000	0.00051	0.00000	-0.00122
90	0.00000	0.00730	0.00000	-0.00051	0.00000	-0.00122
94	-0.01822	0.11899	-0.07366	-0.10129	-0.01925	-0.01135
95	0.00001	0.00723	-0.00001	-0.00048	0.00000	-0.00120
99	-0.00092	-0.02101	0.11330	-0.09558	0.01589	0.01456

100	0.00000	0.01430	0.00000	-0.00100	0.00000	-0.00238
SUM	-0.07212	2.50440	0.07212	-3.50506	-0.07553	-0.39248

## Envelope for nodal reactions

Note.- **Ic** is the controlling load condition



Direction of positive forces and moments

Envelope of nodal reactions for :

- LC1=1.2D+Wo
- LC2=1.2D+W30
- LC3=1.2D+W60
- LC4=1.2D+W90
- LC5=1.2D+W120
- LC6=1.2D+W150
- LC7=1.2D-Wo
- LC8=1.2D-W30
- LC9=1.2D-W60
- LC10=1.2D-W90
- LC11=1.2D-W120
- LC12=1.2D-W150
- LC13=0.9D+Wo
- LC14=0.9D+W30
- LC15=0.9D+W60
- LC16=0.9D+W90
- LC17=0.9D+W120
- LC18=0.9D+W150
- LC19=0.9D-Wo
- LC20=0.9D-W30
- LC21=0.9D-W60
- LC22=0.9D-W90
- LC23=0.9D-W120
- LC24=0.9D-W150
- LC25=1.2D+Di+W10
- LC26=1.2D+Di+W130
- LC27=1.2D+Di+W160
- LC28=1.2D+Di+W190
- LC29=1.2D+Di+W1120
- LC30=1.2D+Di+W1150
- LC31=1.2D+Di-W10
- LC32=1.2D+Di-W130
- LC33=1.2D+Di-W160
- LC34=1.2D+Di-W190
- LC35=1.2D+Di-W1120
- LC36=1.2D+Di-W1150
- LC37=1.2D+1.6LL1
- LC38=1.2D+1.6LL2

LC39=1.2D+1.6LL3  
 LC40=1.2D+WL0+1.6LLa1  
 LC41=1.2D+WL30+1.6LLa1  
 LC42=1.2D+WL60+1.6LLa1  
 LC43=1.2D+WL90+1.6LLa1  
 LC44=1.2D+WL120+1.6LLa1  
 LC45=1.2D+WL150+1.6LLa1  
 LC46=1.2D-WL0+1.6LLa1  
 LC47=1.2D-WL30+1.6LLa1  
 LC48=1.2D-WL60+1.6LLa1  
 LC49=1.2D-WL90+1.6LLa1  
 LC50=1.2D-WL120+1.6LLa1  
 LC51=1.2D-WL150+1.6LLa1  
 LC52=1.2D+WL0+1.6LLa2  
 LC53=1.2D+WL30+1.6LLa2  
 LC54=1.2D+WL60+1.6LLa2  
 LC55=1.2D+WL90+1.6LLa2  
 LC56=1.2D+WL120+1.6LLa2  
 LC57=1.2D+WL150+1.6LLa2  
 LC58=1.2D-WL0+1.6LLa2  
 LC59=1.2D-WL30+1.6LLa2  
 LC60=1.2D-WL60+1.6LLa2  
 LC61=1.2D-WL90+1.6LLa2  
 LC62=1.2D-WL120+1.6LLa2  
 LC63=1.2D-WL150+1.6LLa2  
 LC64=1.2D+WL0+1.6LLa3  
 LC65=1.2D+WL30+1.6LLa3  
 LC66=1.2D+WL60+1.6LLa3  
 LC67=1.2D+WL90+1.6LLa3  
 LC68=1.2D+WL120+1.6LLa3  
 LC69=1.2D+WL150+1.6LLa3  
 LC70=1.2D-WL0+1.6LLa3  
 LC71=1.2D-WL30+1.6LLa3  
 LC72=1.2D-WL60+1.6LLa3  
 LC73=1.2D-WL90+1.6LLa3  
 LC74=1.2D-WL120+1.6LLa3  
 LC75=1.2D-WL150+1.6LLa3  
 LC76=1.2D+WL0+1.6LLa4  
 LC77=1.2D+WL30+1.6LLa4  
 LC78=1.2D+WL60+1.6LLa4  
 LC79=1.2D+WL90+1.6LLa4  
 LC80=1.2D+WL120+1.6LLa4  
 LC81=1.2D+WL150+1.6LLa4  
 LC82=1.2D-WL0+1.6LLa4  
 LC83=1.2D-WL30+1.6LLa4  
 LC84=1.2D-WL60+1.6LLa4  
 LC85=1.2D-WL90+1.6LLa4  
 LC86=1.2D-WL120+1.6LLa4  
 LC87=1.2D-WL150+1.6LLa4

Node		Forces						Moments					
		Fx	lc	Fy	lc	Fz	lc	Mx	lc	My	lc	Mz	lc
		[Kip]		[Kip]		[Kip]		[Kip*ft]		[Kip*ft]		[Kip*ft]	
43	Max	0.369	LC3	3.107	LC1	0.820	LC1	0.50207	LC19	0.50233	LC3	0.28279	LC19
	Min	-0.317	LC21	-1.688	LC19	-0.720	LC19	-2.09382	LC1	-0.44311	LC21	-0.51907	LC1
45	Max	0.010	LC3	0.013	LC25	0.000	LC3	0.00092	LC25	0.00068	LC9	-0.00091	LC13
	Min	-0.010	LC9	0.005	LC13	0.000	LC9	0.00038	LC15	-0.00068	LC3	-0.00222	LC25
80	Max	0.019	LC17	0.025	LC31	0.000	LC3	-0.00070	LC19	0.00136	LC3	-0.00171	LC13
	Min	-0.019	LC11	0.010	LC13	0.000	LC21	-0.00189	LC25	-0.00136	LC21	-0.00409	LC31
81	Max	0.010	LC3	0.013	LC25	0.000	LC9	-0.00038	LC15	0.00068	LC3	-0.00091	LC13

	Min	-0.010	LC9	0.005	LC21	0.000	LC3	-0.00092	LC25	-0.00068	LC9	-0.00222	LC25
85	Max	1.540	LC16	3.035	LC8	1.513	LC13	1.85384	LC17	1.88792	LC16	0.37947	LC14
	Min	-1.668	LC10	-2.150	LC14	-1.596	LC7	-3.46767	LC12	-2.13739	LC10	-0.52108	LC8
86	Max	0.019	LC3	0.024	LC30	0.000	LC16	-0.00057	LC17	0.00137	LC16	-0.00162	LC24
	Min	-0.019	LC21	0.010	LC24	0.000	LC10	-0.00191	LC36	-0.00137	LC10	-0.00408	LC30
89	Max	0.010	LC3	0.013	LC25	0.000	LC3	0.00092	LC25	0.00068	LC9	-0.00091	LC13
	Min	-0.010	LC9	0.005	LC13	0.000	LC9	0.00038	LC15	-0.00068	LC3	-0.00222	LC25
90	Max	0.010	LC3	0.013	LC25	0.000	LC9	-0.00038	LC15	0.00068	LC3	-0.00091	LC15
	Min	-0.010	LC9	0.005	LC13	0.000	LC3	-0.00092	LC25	-0.00068	LC9	-0.00222	LC25
94	Max	0.212	LC17	1.386	LC2	0.900	LC19	0.89948	LC20	0.14832	LC19	0.08203	LC19
	Min	-0.222	LC11	-1.009	LC20	-1.050	LC1	-1.27446	LC2	-0.17842	LC1	-0.10395	LC1
95	Max	0.010	LC3	0.013	LC32	0.000	LC18	-0.00011	LC14	0.00068	LC17	-0.00077	LC14
	Min	-0.010	LC21	0.005	LC14	0.000	LC12	-0.00087	LC32	-0.00068	LC11	-0.00219	LC32
99	Max	0.421	LC4	1.543	LC6	2.188	LC1	0.91950	LC20	0.51793	LC2	0.46041	LC2
	Min	-0.340	LC22	-1.375	LC24	-2.060	LC19	-1.30798	LC2	-0.41310	LC20	-0.37337	LC20
100	Max	0.019	LC17	0.025	LC32	0.000	LC2	-0.00066	LC20	0.00136	LC3	-0.00173	LC14
	Min	-0.019	LC11	0.010	LC14	0.000	LC21	-0.00178	LC26	-0.00136	LC21	-0.00412	LC32

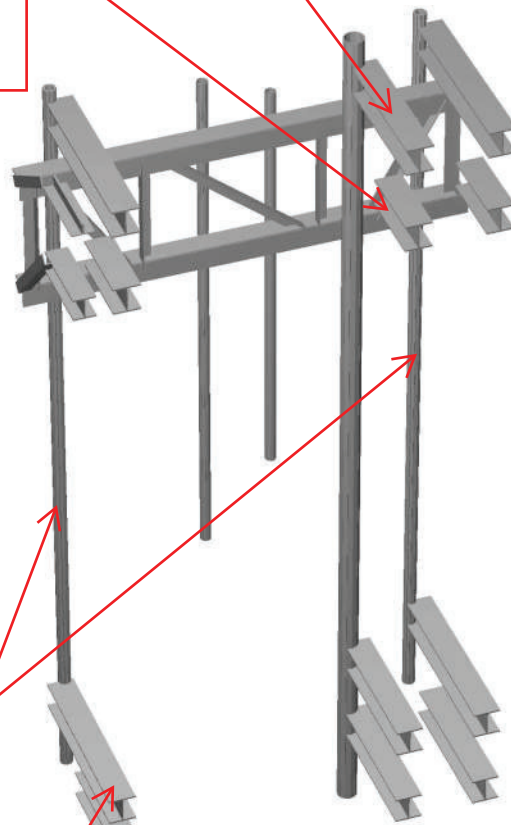


**HUDSON**  
Design Group LLC

**Mount Calculations  
(Modified Conditions)**

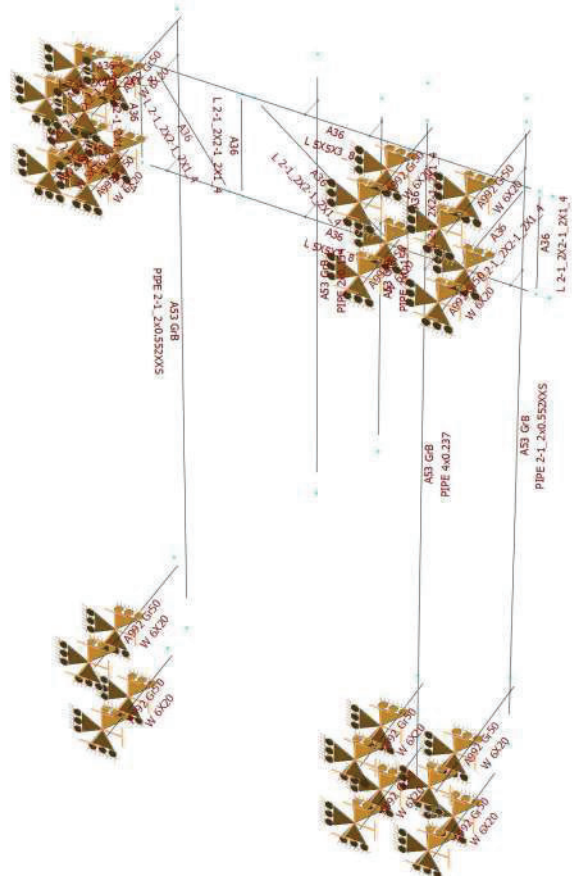
Remove existing W-beams and install new 6x20 W-beam secured to the existing vertical mounting pipe and tower face (typ. of 2 per sector, total of 6) (see pictures 1 & 2 on page 6).

Remove existing T2L angles and install new 6x20 W-beam secured to the existing vertical mounting pipe and tower face (typ. of 2 per sector, total of 6) (see pictures 1 & 2 on page 6).



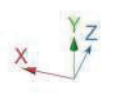
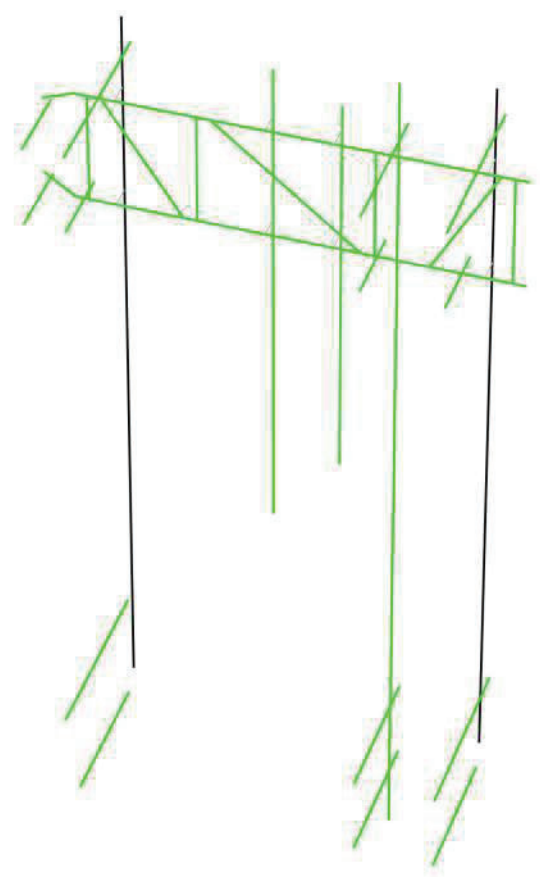
Install new 2-1/2" xx-strong (2.88" O.D.) antenna pipe mast secured to the existing mount face (typ. of 2 per sector, total of 6).

Install new 6x20 W-beam secured to the proposed antenna pipe mast and tower face (typ. of 8 per sector, total of 24).

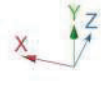
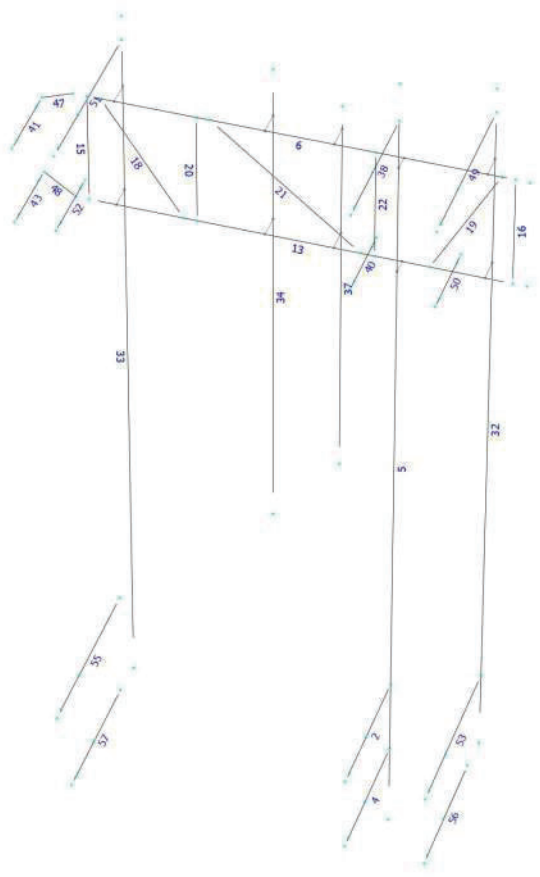


Design status

- Not designed
- Error on design
- Design O.K.
- With warnings







## Load data

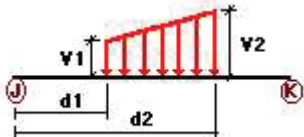
### GLOSSARY

Comb : Indicates if load condition is a load combination

### Load Conditions

Condition	Description	Comb.	Category
D	Dead Load	No	DL
Wo	Wind Load (NO ICE)	No	WIND
W30	WL 30deg	No	WIND
W60	WL 60deg	No	WIND
W90	WL 90deg	No	WIND
W120	WL 120deg	No <td WIND	
W150	WL 150deg	No	WIND
Di	Ice Load	No	LL
WI0	WL ICE 0deg	No	WIND
WI30	WL ICE 30deg	No	WIND
WI60	WL ICE 60deg	No	WIND
WI90	WL ICE 90deg	No	WIND
WI120	WL ICE 120deg	No	WIND
WI150	WL ICE 150deg	No	WIND
WL0	WL 30 mph 0deg	No	WIND
WL30	WL 30 mph 30deg	No	WIND
WL60	WL 30 mph 60deg	No	WIND
WL90	WL 30 mph 90deg	No	WIND
WL120	WL 30 mph 120deg	No	WIND
WL150	WL 30 mph 150deg	No	WIND
LL1	250 lb Live Load Center of Mount	No	LL
LL2	250 lb Live Load Right End of Mount	No	LL
LL3	250 lb Live Load Left End of Mount	No	LL
LLa1	500 lb Live Load Antenna 1	No	LL
LLa2	500 lb Live Load Antenna 2	No	LL
LLa3	500 lb Live Load Antenna 3	No	LL
LLa4	500 lb Live Load Antenna 4	No	LL

### Distributed force on members



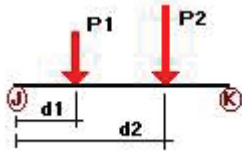
Condition	Member	Dir1	Val1 [Kip/ft]	Val2 [Kip/ft]	Dist1 [ft]	%	Dist2 [ft]	%
Wo	5	z	-0.022	-0.022	0.00	No	100.00	Yes
	6	z	-0.026	-0.026	0.00	No	100.00	Yes
	13	z	-0.026	-0.026	0.00	No	100.00	Yes
	15	z	-0.013	-0.013	0.00	No	100.00	Yes
	16	z	-0.013	-0.013	0.00	No	100.00	Yes
	18	z	-0.013	-0.013	0.00	No	100.00	Yes
	19	z	-0.013	-0.013	0.00	No	100.00	Yes
	20	z	-0.013	-0.013	0.00	No	100.00	Yes
	21	z	-0.013	-0.013	0.00	No	100.00	Yes
	22	z	-0.013	-0.013	0.00	No	100.00	Yes
	32	z	-0.014	-0.014	0.00	No	100.00	Yes
	33	z	-0.014	-0.014	0.00	No	100.00	Yes
	34	z	-0.012	-0.012	0.00	No	100.00	Yes
	37	z	-0.012	-0.012	0.00	No	100.00	Yes
47	z	-0.013	-0.013	0.00	No	100.00	Yes	
48	z	-0.013	-0.013	0.00	No	100.00	Yes	
W30	2	z	-0.031	-0.031	0.00	No	100.00	Yes
	4	z	-0.031	-0.031	0.00	No	100.00	Yes
	5	z	-0.022	-0.022	0.00	No	100.00	Yes
	6	z	-0.026	-0.026	0.00	No	100.00	Yes
	13	z	-0.026	-0.026	0.00	No	100.00	Yes
	15	z	-0.013	-0.013	0.00	No	100.00	Yes
	16	z	-0.013	-0.013	0.00	No	100.00	Yes
	18	z	-0.013	-0.013	0.00	No	100.00	Yes
	19	z	-0.013	-0.013	0.00	No	100.00	Yes
	20	z	-0.013	-0.013	0.00	No	100.00	Yes
	21	z	-0.013	-0.013	0.00	No	100.00	Yes
	22	z	-0.013	-0.013	0.00	No	100.00	Yes
	32	z	-0.014	-0.014	0.00	No	100.00	Yes
	33	z	-0.014	-0.014	0.00	No	100.00	Yes
	34	z	-0.012	-0.012	0.00	No	100.00	Yes
	37	z	-0.012	-0.012	0.00	No	100.00	Yes
	38	z	-0.031	-0.031	0.00	No	100.00	Yes
	40	z	-0.031	-0.031	0.00	No	100.00	Yes
	41	z	-0.013	-0.013	0.00	No	100.00	Yes
	43	z	-0.026	-0.026	0.00	No	100.00	Yes
	47	z	-0.013	-0.013	0.00	No	100.00	Yes
48	z	-0.013	-0.013	0.00	No	100.00	Yes	
49	z	-0.031	-0.031	0.00	No	100.00	Yes	
50	z	-0.031	-0.031	0.00	No	100.00	Yes	
51	z	-0.031	-0.031	0.00	No	100.00	Yes	
52	z	-0.031	-0.031	0.00	No	100.00	Yes	
53	z	-0.031	-0.031	0.00	No	100.00	Yes	
55	z	-0.031	-0.031	0.00	No	100.00	Yes	
56	z	-0.031	-0.031	0.00	No	100.00	Yes	
57	z	-0.031	-0.031	0.00	No	100.00	Yes	
W60	2	x	-0.031	-0.031	0.00	No	100.00	Yes
	4	x	-0.031	-0.031	0.00	No	100.00	Yes
	5	x	-0.022	-0.022	0.00	No	100.00	Yes
	6	x	-0.026	-0.026	0.00	No	100.00	Yes
	13	x	-0.026	-0.026	0.00	No	100.00	Yes
	15	x	-0.013	-0.013	0.00	No	100.00	Yes
	16	x	-0.013	-0.013	0.00	No	100.00	Yes
	18	x	-0.013	-0.013	0.00	No	100.00	Yes
	19	x	-0.013	-0.013	0.00	No	100.00	Yes
	20	x	-0.013	-0.013	0.00	No	100.00	Yes
	21	x	-0.013	-0.013	0.00	No	100.00	Yes
22	x	-0.013	-0.013	0.00	No	100.00	Yes	
32	x	-0.014	-0.014	0.00	No	100.00	Yes	
33	x	-0.014	-0.014	0.00	No	100.00	Yes	



	38	x	-0.031	-0.031	0.00	No	100.00	Yes
	40	x	-0.031	-0.031	0.00	No	100.00	Yes
	41	x	-0.013	-0.013	0.00	No	100.00	Yes
	43	x	-0.026	-0.026	0.00	No	100.00	Yes
	47	x	-0.013	-0.013	0.00	No	100.00	Yes
	48	x	-0.013	-0.013	0.00	No	100.00	Yes
	49	x	-0.031	-0.031	0.00	No	100.00	Yes
	50	x	-0.031	-0.031	0.00	No	100.00	Yes
	51	x	-0.031	-0.031	0.00	No	100.00	Yes
	52	x	-0.031	-0.031	0.00	No	100.00	Yes
	53	x	-0.031	-0.031	0.00	No	100.00	Yes
	55	x	-0.031	-0.031	0.00	No	100.00	Yes
	56	x	-0.031	-0.031	0.00	No	100.00	Yes
	57	x	-0.031	-0.031	0.00	No	100.00	Yes
W150	2	z	0.031	0.031	0.00	No	100.00	Yes
	4	z	0.031	0.031	0.00	No	100.00	Yes
	5	z	0.022	0.022	0.00	No	100.00	Yes
	6	z	0.026	0.026	0.00	No	100.00	Yes
	13	z	0.026	0.026	0.00	No	100.00	Yes
	15	z	0.013	0.013	0.00	No	100.00	Yes
	16	z	0.013	0.013	0.00	No	100.00	Yes
	18	z	0.013	0.013	0.00	No	100.00	Yes
	19	z	0.013	0.013	0.00	No	100.00	Yes
	20	z	0.013	0.013	0.00	No	100.00	Yes
	21	z	0.013	0.013	0.00	No	100.00	Yes
	22	z	0.013	0.013	0.00	No	100.00	Yes
	32	z	0.014	0.014	0.00	No	100.00	Yes
	33	z	0.014	0.014	0.00	No	100.00	Yes
	34	z	0.012	0.012	0.00	No	100.00	Yes
	37	z	0.012	0.012	0.00	No	100.00	Yes
	38	z	0.031	0.031	0.00	No	100.00	Yes
	40	z	0.031	0.031	0.00	No	100.00	Yes
	41	z	0.013	0.013	0.00	No	100.00	Yes
	43	z	0.026	0.026	0.00	No	100.00	Yes
	47	z	0.013	0.013	0.00	No	100.00	Yes
	48	z	0.013	0.013	0.00	No	100.00	Yes
	49	z	0.031	0.031	0.00	No	100.00	Yes
	50	z	0.031	0.031	0.00	No	100.00	Yes
	51	z	0.031	0.031	0.00	No	100.00	Yes
	52	z	0.031	0.031	0.00	No	100.00	Yes
	53	z	0.031	0.031	0.00	No	100.00	Yes
	55	z	0.031	0.031	0.00	No	100.00	Yes
	56	z	0.031	0.031	0.00	No	100.00	Yes
	57	z	0.031	0.031	0.00	No	100.00	Yes
Di	2	y	-0.016	-0.016	0.00	No	100.00	Yes
	4	y	-0.016	-0.016	0.00	No	100.00	Yes
	5	y	-0.009	-0.009	0.00	No	100.00	Yes
	6	y	-0.014	-0.014	0.00	No	100.00	Yes
	13	y	-0.014	-0.014	0.00	No	100.00	Yes
	15	y	-0.008	-0.008	0.00	No	100.00	Yes
	16	y	-0.008	-0.008	0.00	No	100.00	Yes
	18	y	-0.008	-0.008	0.00	No	100.00	Yes
	19	y	-0.008	-0.008	0.00	No	100.00	Yes
	20	y	-0.008	-0.008	0.00	No	100.00	Yes
	21	y	-0.008	-0.008	0.00	No	100.00	Yes
	22	y	-0.008	-0.008	0.00	No	100.00	Yes
	32	y	-0.007	-0.007	0.00	No	100.00	Yes
	33	y	-0.007	-0.007	0.00	No	100.00	Yes
	34	y	-0.006	-0.006	0.00	No	100.00	Yes
	37	y	-0.006	-0.006	0.00	No	100.00	Yes

38	y	-0.016	-0.016	0.00	No	100.00	Yes
40	y	-0.016	-0.016	0.00	No	100.00	Yes
41	y	-0.008	-0.008	0.00	No	100.00	Yes
43	y	-0.014	-0.014	0.00	No	100.00	Yes
47	y	-0.008	-0.008	0.00	No	100.00	Yes
48	y	-0.008	-0.008	0.00	No	100.00	Yes
49	y	-0.016	-0.016	0.00	No	100.00	Yes
50	y	-0.016	-0.016	0.00	No	100.00	Yes
51	y	-0.016	-0.016	0.00	No	100.00	Yes
52	y	-0.016	-0.016	0.00	No	100.00	Yes
53	y	-0.016	-0.016	0.00	No	100.00	Yes
55	y	-0.016	-0.016	0.00	No	100.00	Yes
56	y	-0.016	-0.016	0.00	No	100.00	Yes
57	y	-0.016	-0.016	0.00	No	100.00	Yes

### Concentrated forces on members



Condition	Member	Dir1	Value1 [Kip]	Dist1 [ft]	%
D	32	y	-0.029	2.00	No
		y	-0.029	7.00	No
		y	-0.06	5.00	No
		y	-0.06	5.00	No
		y	-0.041	11.00	No
		y	-0.041	13.00	No
		y	-0.041	13.00	No
	33	y	-0.037	2.00	No
		y	-0.037	7.00	No
		y	-0.033	11.00	No
	34	y	-0.06	1.50	No
		37	y	-0.06	4.00
	y		-0.049	4.00	No
	Wo	32	z	-0.033	1.00
z			-0.193	2.00	No
z			-0.193	7.00	No
z			-0.034	5.00	No
z			-0.031	5.00	No
z			-0.10	11.00	No
z			-0.10	13.00	No
33		z	-0.325	2.00	No
		z	-0.325	7.00	No
		z	-0.103	11.00	No
34		z	-0.103	13.00	No
		37	z	-0.135	1.50
z			-0.082	4.00	No
37		z	-0.035	4.00	No
	z	-0.056	1.00	No	
	z	-0.056	1.00	No	
W30	32	3	-0.182	2.00	No
		3	-0.182	7.00	No
		3	-0.05	5.00	No

		3	-0.092	11.00	No
		3	-0.092	13.00	No
	33	3	-0.275	2.00	No
		3	-0.275	7.00	No
		3	-0.09	11.00	No
		3	-0.09	13.00	No
	34	3	-0.122	1.50	No
	37	3	-0.095	4.00	No
		3	-0.056	1.00	No
W60	32	3	-0.159	2.00	No
		3	-0.159	7.00	No
		3	-0.082	5.00	No
		3	-0.076	11.00	No
		3	-0.076	13.00	No
	33	3	-0.173	2.00	No
		3	-0.173	7.00	No
		3	-0.063	11.00	No
		3	-0.063	13.00	No
	34	3	-0.095	1.50	No
	37	3	-0.122	4.00	No
		3	-0.056	1.00	No
W90	32	x	-0.148	2.00	No
		x	-0.148	7.00	No
		x	-0.099	5.00	No
		x	-0.068	11.00	No
		x	-0.068	13.00	No
	33	x	-0.122	2.00	No
		x	-0.122	7.00	No
		x	-0.05	11.00	No
		x	-0.05	13.00	No
	34	x	-0.082	1.50	No
	37	x	-0.135	4.00	No
		x	-0.056	1.00	No
W120	32	2	-0.159	2.00	No
		2	-0.159	7.00	No
		2	-0.082	5.00	No
		2	-0.076	11.00	No
		2	-0.076	13.00	No
	33	2	-0.173	2.00	No
		2	-0.173	7.00	No
		2	-0.063	11.00	No
		2	-0.063	13.00	No
	34	2	-0.095	1.50	No
	37	2	-0.122	4.00	No
		2	-0.056	1.00	No
W150	32	2	-0.182	2.00	No
		2	-0.182	7.00	No
		2	-0.05	5.00	No
		2	-0.092	11.00	No
		2	-0.092	13.00	No
	33	2	-0.275	2.00	No
		2	-0.275	7.00	No
		2	-0.09	11.00	No
		2	-0.09	13.00	No
	34	2	-0.122	1.50	No
	37	2	-0.095	4.00	No
		2	-0.056	1.00	No
Di	32	y	-0.076	2.00	No
		y	-0.076	7.00	No
		y	-0.043	5.00	No

		y	-0.042	5.00	No
		y	-0.043	11.00	No
		y	-0.043	13.00	No
	33	y	-0.115	2.00	No
		y	-0.115	7.00	No
		y	-0.04	11.00	No
	34	y	-0.04	13.00	No
	37	y	-0.056	1.50	No
		y	-0.056	4.00	No
		y	-0.032	4.00	No
		y	-0.036	1.00	No
W10	32	z	-0.043	2.00	No
		z	-0.043	7.00	No
		z	-0.011	5.00	No
		z	-0.01	5.00	No
		z	-0.022	11.00	No
		z	-0.022	13.00	No
	33	z	-0.066	2.00	No
		z	-0.066	7.00	No
		z	-0.023	11.00	No
		z	-0.023	13.00	No
	34	z	-0.031	1.50	No
	37	z	-0.022	4.00	No
		z	-0.011	4.00	No
		z	-0.014	1.00	No
W130	32	3	-0.04	2.00	No
		3	-0.04	7.00	No
		3	-0.014	5.00	No
		3	-0.021	11.00	No
		3	-0.021	13.00	No
	33	3	-0.056	2.00	No
		3	-0.056	7.00	No
		3	-0.02	11.00	No
		3	-0.02	13.00	No
	34	3	-0.029	1.50	No
	37	3	-0.024	4.00	No
		3	-0.014	1.00	No
W160	32	3	-0.036	2.00	No
		3	-0.036	7.00	No
		3	-0.02	5.00	No
		3	-0.017	11.00	No
		3	-0.017	13.00	No
	33	3	-0.038	2.00	No
		3	-0.038	7.00	No
		3	-0.015	11.00	No
		3	-0.015	13.00	No
	34	3	-0.024	1.50	No
	37	3	-0.029	4.00	No
		3	-0.014	1.00	No
W190	32	x	-0.034	2.00	No
		x	-0.034	7.00	No
		x	-0.024	5.00	No
		x	-0.016	11.00	No
		x	-0.016	13.00	No
	33	x	-0.029	2.00	No
		x	-0.029	7.00	No
		x	-0.013	11.00	No
		x	-0.013	13.00	No
	34	x	-0.021	1.50	No
	37	x	-0.031	4.00	No



		x	-0.014	1.00	No
WI120	32	2	-0.036	2.00	No
		2	-0.036	7.00	No
		2	-0.02	5.00	No
		2	-0.017	11.00	No
		2	-0.017	13.00	No
	33	2	-0.038	2.00	No
		2	-0.038	7.00	No
		2	-0.015	11.00	No
		2	-0.015	13.00	No
		2	-0.024	1.50	No
34	2	-0.029	4.00	No	
37	2	-0.014	1.00	No	
WI150	32	2	-0.04	2.00	No
		2	-0.04	7.00	No
		2	-0.014	5.00	No
		2	-0.021	11.00	No
		2	-0.021	13.00	No
	33	2	-0.056	2.00	No
		2	-0.056	7.00	No
		2	-0.02	11.00	No
		2	-0.02	13.00	No
		2	-0.029	1.50	No
34	2	-0.024	4.00	No	
37	2	-0.014	1.00	No	
WLO	32	z	-0.012	2.00	No
		z	-0.012	7.00	No
		z	-0.002	5.00	No
		z	-0.002	5.00	No
		z	-0.006	11.00	No
	33	z	-0.006	13.00	No
		z	-0.021	2.00	No
		z	-0.021	7.00	No
		z	-0.007	11.00	No
		z	-0.007	13.00	No
34	z	-0.008	1.50	No	
37	z	-0.005	4.00	No	
WL30	32	z	-0.002	4.00	No
		z	-0.003	1.00	No
		3	-0.012	2.00	No
		3	-0.012	7.00	No
		3	-0.003	5.00	No
	33	3	-0.006	11.00	No
		3	-0.006	13.00	No
		3	-0.017	2.00	No
		3	-0.017	7.00	No
		3	-0.006	11.00	No
34	3	-0.006	13.00	No	
	3	-0.008	1.50	No	
	3	-0.006	4.00	No	
	3	-0.003	1.00	No	
	3	-0.003	1.00	No	
WL60	32	3	-0.01	2.00	No
		3	-0.01	7.00	No
		3	-0.005	5.00	No
		3	-0.005	11.00	No
		3	-0.005	13.00	No
	33	3	-0.005	13.00	No
		3	-0.011	2.00	No
		3	-0.011	7.00	No
		3	-0.004	11.00	No
		3	-0.004	13.00	No

	34	3	-0.006	1.50	No
	37	3	-0.008	4.00	No
		3	-0.003	1.00	No
WL90	32	x	-0.009	2.00	No
		x	-0.009	7.00	No
		x	-0.006	5.00	No
		x	-0.004	11.00	No
		x	-0.004	13.00	No
	33	x	-0.008	2.00	No
		x	-0.008	7.00	No
		x	-0.003	11.00	No
		x	-0.003	13.00	No
	34	x	-0.005	1.50	No
	37	x	-0.008	4.00	No
		x	-0.003	1.00	No
WL120	32	2	-0.01	2.00	No
		2	-0.01	7.00	No
		2	-0.005	5.00	No
		2	-0.005	11.00	No
		2	-0.005	13.00	No
	33	2	-0.011	2.00	No
		2	-0.011	7.00	No
		2	-0.004	11.00	No
		2	-0.004	13.00	No
	34	2	-0.006	1.50	No
	37	2	-0.008	4.00	No
		2	-0.003	1.00	No
WL150	32	2	-0.012	2.00	No
		2	-0.012	7.00	No
		2	-0.003	5.00	No
		2	-0.006	11.00	No
		2	-0.006	13.00	No
	33	2	-0.017	2.00	No
		2	-0.017	7.00	No
		2	-0.006	11.00	No
		2	-0.006	13.00	No
	34	2	-0.008	1.50	No
	37	2	-0.006	4.00	No
		2	-0.003	1.00	No
LL1	6	y	-0.25	50.00	Yes
LL2	6	y	-0.25	100.00	Yes
LL3	6	y	-0.25	0.00	Yes
LLa1	34	y	-0.50	50.00	Yes
LLa2	33	y	-0.50	50.00	Yes
LLa3	37	y	-0.50	50.00	Yes
LLa4	32	y	-0.50	50.00	Yes

### Self weight multipliers for load conditions

Condition	Description	Self weight multiplier			
		Comb.	MultX	MultY	MultZ
D	Dead Load	No	0.00	-1.00	0.00
Wo	Wind Load (NO ICE)	No	0.00	0.00	0.00
W30	WL 30deg	No	0.00	0.00	0.00
W60	WL 60deg	No	0.00	0.00	0.00

W90	WL 90deg	No	0.00	0.00	0.00
W120	WL 120deg	No	0.00	0.00	0.00
W150	WL 150deg	No	0.00	0.00	0.00
Di	Ice Load	No	0.00	0.00	0.00
WI0	WL ICE 0deg	No	0.00	0.00	0.00
WI30	WL ICE 30deg	No	0.00	0.00	0.00
WI60	WL ICE 60deg	No	0.00	0.00	0.00
WI90	WL ICE 90deg	No	0.00	0.00	0.00
WI120	WL ICE 120deg	No	0.00	0.00	0.00
WI150	WL ICE 150deg	No	0.00	0.00	0.00
WL0	WL 30 mph 0deg	No	0.00	0.00	0.00
WL30	WL 30 mph 30deg	No	0.00	0.00	0.00
WL60	WL 30 mph 60deg	No	0.00	0.00	0.00
WL90	WL 30 mph 90deg	No	0.00	0.00	0.00
WL120	WL 30 mph 120deg	No	0.00	0.00	0.00
WL150	WL 30 mph 150deg	No	0.00	0.00	0.00
LL1	250 lb Live Load Center of Mount	No	0.00	0.00	0.00
LL2	250 lb Live Load Right End of Mount	No	0.00	0.00	0.00
LL3	250 lb Live Load Left End of Mount	No	0.00	0.00	0.00
LLa1	500 lb Live Load Antenna 1	No	0.00	0.00	0.00
LLa2	500 lb Live Load Antenna 2	No	0.00	0.00	0.00
LLa3	500 lb Live Load Antenna 3	No	0.00	0.00	0.00
LLa4	500 lb Live Load Antenna 4	No	0.00	0.00	0.00

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### Earthquake (Dynamic analysis only)

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Condition	a/g	Ang. [Deg]	Damp. [%]
D	0.00	0.00	0.00
Wo	0.00	0.00	0.00
W30	0.00	0.00	0.00
W60	0.00	0.00	0.00
W90	0.00	0.00	0.00
W120	0.00	0.00	0.00
W150	0.00	0.00	0.00
Di	0.00	0.00	0.00
WI0	0.00	0.00	0.00
WI30	0.00	0.00	0.00
WI60	0.00	0.00	0.00
WI90	0.00	0.00	0.00
WI120	0.00	0.00	0.00
WI150	0.00	0.00	0.00
WL0	0.00	0.00	0.00
WL30	0.00	0.00	0.00
WL60	0.00	0.00	0.00
WL90	0.00	0.00	0.00
WL120	0.00	0.00	0.00
WL150	0.00	0.00	0.00
LL1	0.00	0.00	0.00
LL2	0.00	0.00	0.00
LL3	0.00	0.00	0.00
LLa1	0.00	0.00	0.00
LLa2	0.00	0.00	0.00
LLa3	0.00	0.00	0.00
LLa4	0.00	0.00	0.00

## Steel Code Check

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Report: Summary - Group by member

Load conditions to be included in design :

LC1=1.2D+Wo  
LC2=1.2D+W30  
LC3=1.2D+W60  
LC4=1.2D+W90  
LC5=1.2D+W120  
LC6=1.2D+W150  
LC7=1.2D-Wo  
LC8=1.2D-W30  
LC9=1.2D-W60  
LC10=1.2D-W90  
LC11=1.2D-W120  
LC12=1.2D-W150  
LC13=0.9D+Wo  
LC14=0.9D+W30  
LC15=0.9D+W60  
LC16=0.9D+W90  
LC17=0.9D+W120  
LC18=0.9D+W150  
LC19=0.9D-Wo  
LC20=0.9D-W30  
LC21=0.9D-W60  
LC22=0.9D-W90  
LC23=0.9D-W120  
LC24=0.9D-W150  
LC25=1.2D+Di+Wl0  
LC26=1.2D+Di+Wl30  
LC27=1.2D+Di+Wl60  
LC28=1.2D+Di+Wl90  
LC29=1.2D+Di+Wl120  
LC30=1.2D+Di+Wl150  
LC31=1.2D+Di-Wl0  
LC32=1.2D+Di-Wl30  
LC33=1.2D+Di-Wl60  
LC34=1.2D+Di-Wl90  
LC35=1.2D+Di-Wl120  
LC36=1.2D+Di-Wl150  
LC37=1.2D+1.6LL1  
LC38=1.2D+1.6LL2  
LC39=1.2D+1.6LL3  
LC40=1.2D+Wl0+1.6LLa1  
LC41=1.2D+Wl30+1.6LLa1  
LC42=1.2D+Wl60+1.6LLa1  
LC43=1.2D+Wl90+1.6LLa1  
LC44=1.2D+Wl120+1.6LLa1  
LC45=1.2D+Wl150+1.6LLa1  
LC46=1.2D-Wl0+1.6LLa1  
LC47=1.2D-Wl30+1.6LLa1  
LC48=1.2D-Wl60+1.6LLa1  
LC49=1.2D-Wl90+1.6LLa1  
LC50=1.2D-Wl120+1.6LLa1  
LC51=1.2D-Wl150+1.6LLa1  
LC52=1.2D+Wl0+1.6LLa2  
LC53=1.2D+Wl30+1.6LLa2  
LC54=1.2D+Wl60+1.6LLa2

LC55=1.2D+WL90+1.6LLa2  
 LC56=1.2D+WL120+1.6LLa2  
 LC57=1.2D+WL150+1.6LLa2  
 LC58=1.2D-WL0+1.6LLa2  
 LC59=1.2D-WL30+1.6LLa2  
 LC60=1.2D-WL60+1.6LLa2  
 LC61=1.2D-WL90+1.6LLa2  
 LC62=1.2D-WL120+1.6LLa2  
 LC63=1.2D-WL150+1.6LLa2  
 LC64=1.2D+WL0+1.6LLa3  
 LC65=1.2D+WL30+1.6LLa3  
 LC66=1.2D+WL60+1.6LLa3  
 LC67=1.2D+WL90+1.6LLa3  
 LC68=1.2D+WL120+1.6LLa3  
 LC69=1.2D+WL150+1.6LLa3  
 LC70=1.2D-WL0+1.6LLa3  
 LC71=1.2D-WL30+1.6LLa3  
 LC72=1.2D-WL60+1.6LLa3  
 LC73=1.2D-WL90+1.6LLa3  
 LC74=1.2D-WL120+1.6LLa3  
 LC75=1.2D-WL150+1.6LLa3  
 LC76=1.2D+WL0+1.6LLa4  
 LC77=1.2D+WL30+1.6LLa4  
 LC78=1.2D+WL60+1.6LLa4  
 LC79=1.2D+WL90+1.6LLa4  
 LC80=1.2D+WL120+1.6LLa4  
 LC81=1.2D+WL150+1.6LLa4  
 LC82=1.2D-WL0+1.6LLa4  
 LC83=1.2D-WL30+1.6LLa4  
 LC84=1.2D-WL60+1.6LLa4  
 LC85=1.2D-WL90+1.6LLa4  
 LC86=1.2D-WL120+1.6LLa4  
 LC87=1.2D-WL150+1.6LLa4

Description	Section	Member	Ctrl Eq.	Ratio	Status	Reference
	<i>L 2-1_2X2-1_2X1_4</i>	15	LC1 at 0.00%	0.11	OK	
		16	LC39 at 100.00%	0.03	OK	
		18	LC13 at 100.00%	0.09	OK	
		19	LC5 at 100.00%	0.06	OK	
		20	LC2 at 100.00%	0.12	OK	
		21	LC8 at 0.00%	0.13	OK	
		22	LC9 at 100.00%	0.09	OK	
		47	LC4 at 100.00%	0.11	OK	
		48	LC1 at 0.00%	<b>0.32</b>	<b>OK</b>	
	<i>L 5X5X3_8</i>	6	LC6 at 91.35%	0.06	OK	
		13	LC1 at 91.35%	<b>0.21</b>	<b>OK</b>	
	<i>PIPE 2-1_2x0.552XXS</i>	32	LC1 at 88.75%	0.16	With warnings	
		33	LC19 at 25.00%	<b>0.67</b>	<b>With warnings</b>	
	<i>PIPE 2x0.154</i>	34	LC11 at 33.33%	0.20	OK	
		37	LC10 at 35.42%	<b>0.24</b>	<b>OK</b>	
	<i>PIPE 4x0.237</i>	5	LC13 at 94.79%	<b>0.19</b>	<b>OK</b>	
	<i>T2L 2-1_2X2-1_2X1_4</i>	41	LC3 at 14.58%	<b>0.05</b>	<b>OK</b>	
	<i>W 5X16</i>	43	LC7 at 83.33%	<b>0.05</b>	<b>OK</b>	
	<i>W 6X20</i>	2	LC5 at 45.83%	0.02	OK	
		4	LC8 at 45.83%	0.01	OK	
		38	LC10 at 45.83%	0.08	OK	
		40	LC25 at 16.67%	0.00	OK	

49	LC10 at 37.50%	0.07	OK
50	LC25 at 16.67%	0.00	OK
51	LC1 at 37.50%	<b>0.12</b>	<b>OK</b>
52	LC25 at 16.67%	0.00	OK
53	LC5 at 37.50%	0.03	OK
55	LC4 at 37.50%	0.00	OK
56	LC3 at 45.83%	0.00	OK
57	LC9 at 45.83%	0.00	OK

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## Geometry data

### GLOSSARY

Cb22, Cb33	: Moment gradient coefficients
Cm22, Cm33	: Coefficients applied to bending term in interaction formula
d0	: Tapered member section depth at J end of member
DJX	: Rigid end offset distance measured from J node in axis X
DJY	: Rigid end offset distance measured from J node in axis Y
DJZ	: Rigid end offset distance measured from J node in axis Z
DKX	: Rigid end offset distance measured from K node in axis X
DKY	: Rigid end offset distance measured from K node in axis Y
DKZ	: Rigid end offset distance measured from K node in axis Z
dL	: Tapered member section depth at K end of member
Ig factor	: Inertia reduction factor (Effective Inertia/Gross Inertia) for reinforced concrete members
K22	: Effective length factor about axis 2
K33	: Effective length factor about axis 3
L22	: Member length for calculation of axial capacity
L33	: Member length for calculation of axial capacity
LB pos	: Lateral unbraced length of the compression flange in the positive side of local axis 2
LB neg	: Lateral unbraced length of the compression flange in the negative side of local axis 2
RX	: Rotation about X
RY	: Rotation about Y
RZ	: Rotation about Z
TO	: 1 = Tension only member    0 = Normal member
TX	: Translation in X
TY	: Translation in Y
TZ	: Translation in Z

### Nodes

Node	X [ft]	Y [ft]	Z [ft]	Rigid Floor
2	0.00	-11.8333	0.00	0
4	0.00	-11.8333	2.75	0
6	0.00	-13.4167	0.00	0
8	0.00	-13.4167	2.75	0
10	0.00	-15.2083	2.75	0
11	0.00	1.7917	2.75	0
13	-2.25	0.00	3.05	0
15	6.00	0.00	3.05	0
25	-2.25	-2.25	3.05	0
27	6.00	-2.25	3.05	0
28	5.75	0.00	3.05	0
29	5.75	-2.25	3.05	0
30	-2.00	0.00	3.05	0
31	-2.00	-2.25	3.05	0
32	-0.50	-2.25	3.05	0
33	4.00	-2.25	3.05	0
34	5.50	0.00	3.05	0
35	-1.75	0.00	3.05	0
36	3.75	-2.25	3.05	0
37	3.75	0.00	3.05	0
38	3.50	0.00	3.05	0
39	0.75	-2.25	3.05	0
40	0.50	-2.25	3.05	0

41	0.50	0.00	3.05	0
43	0.00	-11.8333	1.25	0
45	0.00	-13.4167	1.25	0
62	-1.50	1.50	3.50	0
63	5.25	1.50	3.50	0
64	-1.50	-13.50	3.50	0
65	5.25	-13.50	3.50	0
68	2.50	1.00	3.50	0
69	2.50	-9.00	3.50	0
74	1.25	0.50	3.50	0
75	1.25	-7.50	3.50	0
80	0.00	-11.8333	0.25	0
81	0.00	-13.4167	0.25	0
82	0.00	1.00	0.00	0
83	0.00	1.00	2.75	0
85	0.00	1.00	1.25	0
86	0.00	1.00	0.25	0
87	0.00	-0.5833	0.00	0
88	0.00	-0.5833	1.50	0
89	0.00	-0.5833	1.25	0
90	0.00	-0.5833	0.25	0
92	6.00	1.00	0.00	0
93	6.00	1.00	1.50	0
94	6.00	1.00	1.25	0
95	6.00	1.00	0.25	0
96	6.00	-0.5833	0.00	0
97	6.00	-0.5833	1.50	0
99	6.00	-0.5833	1.25	0
100	6.00	-0.5833	0.25	0
104	-1.50	1.00	0.00	0
105	-1.50	1.00	3.50	0
106	-1.50	1.00	1.25	0
107	-1.50	1.00	0.25	0
108	-1.50	-0.5833	0.00	0
109	-1.50	-0.5833	1.50	0
110	-1.50	-0.5833	1.25	0
111	-1.50	-0.5833	0.25	0
112	5.25	1.00	0.00	0
113	5.25	1.00	3.50	0
114	5.25	1.00	1.25	0
115	5.25	1.00	0.25	0
116	5.25	-0.5833	0.00	0
117	5.25	-0.5833	1.50	0
118	5.25	-0.5833	1.25	0
119	5.25	-0.5833	0.25	0
120	-1.50	-11.8333	0.00	0
121	-1.50	-11.8333	3.50	0
122	-1.50	-11.8333	1.25	0
123	-1.50	-11.8333	0.25	0
128	5.50	-11.8333	0.00	0
129	5.50	-11.8333	3.50	0
132	5.50	-11.8333	1.25	0
134	5.50	-11.8333	0.25	0
135	-1.50	-13.4167	0.00	0
136	-1.50	-13.4167	2.75	0
137	-1.50	-13.4167	1.25	0
138	-1.50	-13.4167	0.25	0
139	5.25	-13.4167	0.00	0
140	5.25	-13.4167	2.75	0
141	5.25	-13.4167	1.25	0



### Restraints

Node	TX	TY	TZ	RX	RY	RZ
43	1	1	1	1	1	1
45	1	1	1	1	1	1
80	1	1	1	1	1	1
81	1	1	1	1	1	1
85	1	1	1	1	1	1
86	1	1	1	1	1	1
89	1	1	1	1	1	1
90	1	1	1	1	1	1
94	1	1	1	1	1	1
95	1	1	1	1	1	1
99	1	1	1	1	1	1
100	1	1	1	1	1	1
106	1	1	1	1	1	1
107	1	1	1	1	1	1
110	1	1	1	1	1	1
111	1	1	1	1	1	1
114	1	1	1	1	1	1
115	1	1	1	1	1	1
118	1	1	1	1	1	1
119	1	1	1	1	1	1
122	1	1	1	1	1	1
123	1	1	1	1	1	1
132	1	1	1	1	1	1
134	1	1	1	1	1	1
137	1	1	1	1	1	1
138	1	1	1	1	1	1
141	1	1	1	1	1	1
142	1	1	1	1	1	1

### Members

Member	NJ	NK	Description	Section	Material	d0 [in]	dL [in]	Ig factor
2	2	4		W 6X20	A992 Gr50	0.00	0.00	0.00
4	6	8		W 6X20	A992 Gr50	0.00	0.00	0.00
5	10	11		PIPE 4x0.237	A53 GrB	0.00	0.00	0.00
6	13	15		L 5X5X3_8	A36	0.00	0.00	0.00
13	25	27		L 5X5X3_8	A36	0.00	0.00	0.00
15	29	28		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
16	31	30		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
18	34	33		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
19	32	35		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
20	37	36		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
21	39	38		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
22	41	40		L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
32	62	64		PIPE 2-1_2x0.552XXS	A53 GrB	0.00	0.00	0.00

33	63	65	PIPE 2-1_2x0.552XXS	A53 GrB	0.00	0.00	0.00
34	68	69	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
37	74	75	PIPE 2x0.154	A53 GrB	0.00	0.00	0.00
38	82	83	W 6X20	A992 Gr50	0.00	0.00	0.00
40	87	88	W 6X20	A992 Gr50	0.00	0.00	0.00
41	93	92	T2L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
43	96	97	W 5X16	A992 Gr50	0.00	0.00	0.00
47	93	15	L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
48	97	27	L 2-1_2X2-1_2X1_4	A36	0.00	0.00	0.00
49	104	105	W 6X20	A992 Gr50	0.00	0.00	0.00
50	108	109	W 6X20	A992 Gr50	0.00	0.00	0.00
51	112	113	W 6X20	A992 Gr50	0.00	0.00	0.00
52	116	117	W 6X20	A992 Gr50	0.00	0.00	0.00
53	120	121	W 6X20	A992 Gr50	0.00	0.00	0.00
55	128	129	W 6X20	A992 Gr50	0.00	0.00	0.00
56	135	136	W 6X20	A992 Gr50	0.00	0.00	0.00
57	139	140	W 6X20	A992 Gr50	0.00	0.00	0.00

### Orientation of local axes

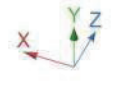
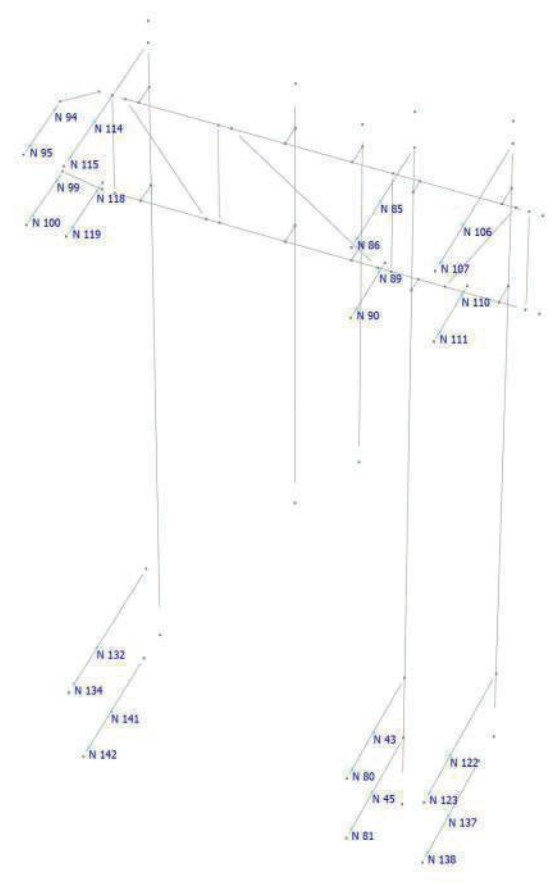
Member	Rotation [Deg]	Axes23	NX	NY	NZ
6	90.00	0	0.00	0.00	0.00
13	90.00	0	0.00	0.00	0.00
15	180.00	0	0.00	0.00	0.00
16	180.00	0	0.00	0.00	0.00
18	90.00	0	0.00	0.00	0.00
20	180.00	0	0.00	0.00	0.00
21	180.00	0	0.00	0.00	0.00
22	180.00	0	0.00	0.00	0.00
32	315.00	0	0.00	0.00	0.00
33	315.00	0	0.00	0.00	0.00
34	315.00	0	0.00	0.00	0.00
37	315.00	0	0.00	0.00	0.00
41	180.00	0	0.00	0.00	0.00

### Rigid end offsets

Member	DJX [in]	DJY [in]	DJZ [in]	DKX [in]	DKY [in]	DKZ [in]
2	-2.00	0.00	0.00	-2.00	0.00	0.00
4	-2.00	0.00	0.00	-2.00	0.00	0.00
38	-2.00	0.00	0.00	-2.00	0.00	0.00
40	-2.00	0.00	0.00	-2.00	0.00	0.00
41	-2.00	0.00	0.00	-2.00	0.00	0.00
43	-2.00	0.00	0.00	-2.00	0.00	0.00
49	-2.00	0.00	0.00	-2.00	0.00	0.00
50	-2.00	0.00	0.00	-2.00	0.00	0.00
51	-2.00	0.00	0.00	-2.00	0.00	0.00
52	-2.00	0.00	0.00	-2.00	0.00	0.00
53	-2.00	0.00	0.00	-2.00	0.00	0.00
55	-2.00	0.00	0.00	-2.00	0.00	0.00

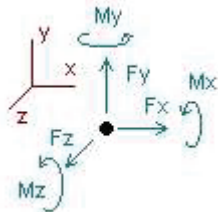
56	-2.00	0.00	0.00	-2.00	0.00	0.00
57	-2.00	0.00	0.00	-2.00	0.00	0.00

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## Analysis result

### Reactions



Direction of positive forces and moments

Node	Forces [Kip]			Moments [Kip*ft]		
	FX	FY	FZ	MX	MY	MZ
Condition <b>LC1=1.2D+Wo</b>						
43	0.04606	0.55728	0.40812	-0.05449	0.05206	-0.09300
45	-0.01718	0.06310	-0.04063	-0.09206	-0.03782	-0.01041
80	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
81	0.00000	0.01784	-0.00001	-0.00125	0.00000	-0.00297
85	0.21734	-0.90112	0.93813	-0.47181	0.27766	0.15329
86	-0.00002	0.01776	0.00003	-0.00130	0.00000	-0.00296
89	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
90	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
94	-0.02291	0.18883	-0.21459	-0.10992	-0.02575	-0.01530
95	0.00000	0.00722	-0.00001	-0.00048	0.00000	-0.00120
99	0.03846	-1.79191	1.93124	0.06840	0.20632	0.20910
100	-0.00001	0.01435	0.00002	-0.00099	0.00000	-0.00239
106	0.02304	0.40896	0.50214	-1.50840	0.02866	-0.06507
107	0.00000	0.01752	0.00000	-0.00145	0.00000	-0.00292
110	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
111	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
114	-0.30978	2.72119	-0.41076	-5.78462	-0.51513	-0.44557
115	0.00004	0.01655	-0.00007	-0.00203	0.00000	-0.00276
118	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
119	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
122	0.02494	0.98541	0.40684	-1.42137	0.04393	-0.15982
123	0.00000	0.01754	0.00000	-0.00143	0.00000	-0.00292
132	0.00000	0.06552	0.00000	-0.05829	0.00000	-0.01092
134	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
137	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
138	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
141	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
142	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
SUM	0.00000	2.67992	3.52047	-9.49608	0.02993	-0.50147
Condition <b>LC2=1.2D+W30</b>						
43	0.10237	0.53062	0.37433	-0.09342	0.12379	-0.08916
45	-0.05858	0.05632	-0.03157	-0.08434	-0.08153	-0.00943
80	-0.00001	0.01784	0.00001	-0.00125	0.00000	-0.00297
81	0.00001	0.01785	-0.00001	-0.00125	0.00000	-0.00297
85	0.59535	-1.08710	0.79545	0.07280	0.82916	0.18956
86	-0.00007	0.01788	0.00011	-0.00123	0.00000	-0.00298
89	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298

90	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
94	0.02373	0.19397	-0.18704	-0.12793	0.00493	-0.00364
95	-0.00001	0.00721	0.00001	-0.00048	0.00000	-0.00120
99	0.04882	-1.11419	1.27924	-0.04970	0.17346	0.17015
100	-0.00001	0.01432	0.00002	-0.00100	0.00000	-0.00239
106	0.24437	0.04559	0.45712	-0.67438	0.48371	-0.00167
107	-0.00004	0.01771	0.00006	-0.00133	0.00000	-0.00295
110	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
111	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
114	0.01807	2.63957	-0.16371	-5.71412	0.09513	-0.42976
115	-0.00001	0.01656	0.00001	-0.00202	0.00000	-0.00276
118	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
119	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
122	0.15811	0.96670	0.31346	-1.52300	0.34941	-0.16641
123	-0.00003	0.01752	0.00005	-0.00145	0.00000	-0.00292
132	0.00000	0.06552	0.00000	-0.05829	0.00000	-0.01092
134	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
137	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
138	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
141	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
142	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
SUM	1.13208	2.67992	2.83755	-8.31574	1.97807	-0.41510

Condition **LC3=1.2D+W60**

43	0.35296	0.44664	0.06771	-0.34468	0.40618	-0.07667
45	-0.00616	0.14677	0.00520	-0.16260	-0.01663	-0.02460
80	0.02321	0.01779	0.00006	-0.00129	0.00162	-0.00296
81	0.02325	0.01783	0.00000	-0.00126	0.00161	-0.00297
85	0.93057	-0.71977	0.28288	0.44218	1.28395	0.13174
86	0.02314	0.01796	0.00018	-0.00118	0.00162	-0.00299
89	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
90	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
94	0.09235	0.18356	-0.17156	-0.11037	0.03511	0.00636
95	0.00973	0.00722	0.00004	-0.00048	0.00068	-0.00120
99	0.10393	-0.20149	0.34361	-0.13712	0.11594	0.09985
100	0.01949	0.01429	0.00002	-0.00101	0.00136	-0.00238
106	0.49545	-0.28325	0.19079	0.32718	0.90682	0.05464
107	0.02317	0.01794	0.00013	-0.00120	0.00162	-0.00299
110	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
111	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
114	0.39028	1.99844	0.02776	-4.32085	0.65316	-0.32258
115	0.02319	0.01688	0.00009	-0.00183	0.00162	-0.00281
118	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
119	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
122	0.29742	0.65994	0.17013	-1.06307	0.55906	-0.12057
123	0.02320	0.01762	0.00008	-0.00138	0.00162	-0.00294
132	0.08526	0.06552	-0.00001	-0.05829	0.07588	-0.01092
134	0.02324	0.01785	0.00001	-0.00125	0.00161	-0.00298
137	0.06200	0.04764	0.00000	-0.02480	0.03229	-0.00794
138	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
141	0.06200	0.04764	0.00000	-0.02480	0.03229	-0.00794
142	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
SUM	3.24369	2.67992	0.91712	-5.49059	4.10065	-0.32667

Condition **LC4=1.2D+W90**

43	0.34611	0.41627	-0.02007	-0.42178	0.39622	-0.07164
45	-0.00102	0.19731	0.04848	-0.21712	-0.00534	-0.03300
80	0.02321	0.01777	0.00006	-0.00130	0.00162	-0.00296
81	0.02325	0.01781	0.00000	-0.00127	0.00161	-0.00297
85	0.95861	-0.44037	0.01582	0.52575	1.32642	0.08597
86	0.02313	0.01798	0.00019	-0.00117	0.00162	-0.00300
89	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
90	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
94	0.10753	0.15187	-0.11770	-0.09854	0.04724	0.01180
95	0.00973	0.00723	0.00005	-0.00048	0.00068	-0.00120
99	0.10279	0.34017	-0.21046	-0.18527	0.06701	0.04734
100	0.01949	0.01428	0.00002	-0.00101	0.00135	-0.00238
106	0.54469	-0.38976	0.06357	0.74850	1.00536	0.07244
107	0.02316	0.01803	0.00014	-0.00114	0.00162	-0.00301
110	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
111	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
114	0.50489	1.48709	0.20494	-3.26283	0.85011	-0.23810
115	0.02317	0.01712	0.00012	-0.00168	0.00162	-0.00285
118	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
119	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
122	0.32412	0.46789	0.01477	-0.89587	0.62113	-0.09200
123	0.02319	0.01766	0.00009	-0.00136	0.00162	-0.00294
132	0.08526	0.06552	-0.00001	-0.05829	0.07588	-0.01092
134	0.02324	0.01785	0.00001	-0.00125	0.00161	-0.00298
137	0.06200	0.04764	0.00000	-0.02480	0.03229	-0.00794
138	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
141	0.06200	0.04764	0.00000	-0.02480	0.03229	-0.00794
142	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298

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SUM	3.47457	2.67992	0.00000	-3.92820	4.46518	-0.29210
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Condition **LC5=1.2D+W120**

43	0.31294	0.38357	-0.11163	-0.49147	0.35074	-0.06596
45	0.02315	0.25711	0.09595	-0.28094	0.02668	-0.04287
80	0.02322	0.01775	0.00005	-0.00131	0.00162	-0.00296
81	0.02325	0.01780	0.00000	-0.00128	0.00161	-0.00297
85	0.81194	-0.01255	-0.25759	0.39434	1.10942	0.01316
86	0.02315	0.01795	0.00016	-0.00119	0.00162	-0.00299
89	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
90	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
94	0.10505	0.09659	-0.03963	-0.07444	0.05037	0.01467
95	0.00973	0.00725	0.00005	-0.00049	0.00068	-0.00121
99	0.08494	0.82726	-0.72616	-0.20719	0.00497	-0.01458
100	0.01949	0.01427	0.00001	-0.00101	0.00135	-0.00238
106	0.49583	-0.34142	-0.08337	0.87383	0.89629	0.06311
107	0.02317	0.01806	0.00013	-0.00112	0.00162	-0.00301
110	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
111	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
114	0.53835	0.81980	0.34809	-1.85338	0.89849	-0.12946
115	0.02317	0.01744	0.00012	-0.00149	0.00162	-0.00291
118	0.02325	0.01786	0.00000	0.00124	-0.00161	-0.00298
119	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
122	0.28462	0.19973	-0.14336	-0.56984	0.52842	-0.04590
123	0.02320	0.01773	0.00008	-0.00132	0.00162	-0.00296
132	0.08526	0.06552	-0.00001	-0.05829	0.07588	-0.01092
134	0.02324	0.01785	0.00001	-0.00125	0.00161	-0.00298
137	0.06200	0.04764	0.00000	-0.02480	0.03229	-0.00794
138	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
141	0.06200	0.04764	0.00000	-0.02480	0.03229	-0.00794

142	0.02325	0.01786	0.00000	-0.00124	0.00161	-0.00298
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SUM	3.24369	2.67992	-0.91712	-2.32992	4.02242	-0.28279
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Condition **LC6=1.2D+W150**

43	-0.01529	0.16248	-0.45224	-0.55637	-0.02136	-0.02745
45	0.02413	0.41391	0.16035	-0.42175	0.05631	-0.06876
80	0.00000	0.01774	0.00000	-0.00132	0.00000	-0.00296
81	0.00000	0.01777	0.00001	-0.00130	0.00000	-0.00296
85	0.26718	0.91169	-0.79668	-0.00555	0.41877	-0.14610
86	-0.00004	0.01786	0.00007	-0.00124	0.00000	-0.00298
89	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
90	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
94	0.06703	-0.00009	0.06450	-0.01236	0.04036	0.01342
95	-0.00001	0.00729	0.00003	-0.00050	0.00000	-0.00122
99	0.01311	1.55070	-1.53312	-0.19989	-0.11044	-0.12555
100	0.00000	0.01427	-0.00001	-0.00101	0.00000	-0.00238
106	0.22161	-0.21705	-0.37654	0.98710	0.45993	0.03898
107	-0.00005	0.01809	0.00007	-0.00111	0.00000	-0.00301
110	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
111	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
114	0.42611	-0.45347	0.38693	0.98140	0.73254	0.07649
115	-0.00006	0.01809	0.00010	-0.00111	0.00000	-0.00301
118	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
119	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
122	0.12839	-0.13878	-0.29106	-0.05396	0.30016	0.01254
123	-0.00003	0.01785	0.00004	-0.00125	0.00000	-0.00298
132	0.00000	0.06552	0.00000	-0.05829	0.00000	-0.01092
134	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
137	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
138	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
141	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
142	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298

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SUM	1.13208	2.67992	-2.83755	0.59815	1.87626	-0.30151
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Condition **LC7=1.2D-Wo**

43	-0.10394	0.12119	-0.53178	-0.58591	-0.13053	-0.01979
45	0.08773	0.47679	0.20470	-0.48747	0.13277	-0.07903
80	0.00001	0.01773	-0.00001	-0.00132	0.00000	-0.00296
81	-0.00001	0.01775	0.00002	-0.00131	0.00000	-0.00296
85	-0.20255	1.55943	-1.00625	-0.57143	-0.24740	-0.26030
86	0.00001	0.01774	-0.00003	-0.00132	0.00000	-0.00296
89	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
90	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
94	0.02974	-0.07697	0.14395	0.03766	0.02124	0.00816
95	0.00000	0.00733	0.00001	-0.00051	0.00000	-0.00122
99	-0.02357	1.85671	-1.90490	-0.15093	-0.18623	-0.19667
100	0.00000	0.01429	-0.00002	-0.00101	0.00000	-0.00238
106	-0.00944	0.13142	-0.49107	0.43143	-0.01057	-0.02284
107	0.00000	0.01796	0.00000	-0.00118	0.00000	-0.00299
110	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
111	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
114	0.23482	-1.45655	0.45728	3.16628	0.35671	0.23847
115	-0.00003	0.01859	0.00005	-0.00081	0.00000	-0.00310
118	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
119	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
122	-0.01277	-0.38298	-0.39243	0.31624	-0.02052	0.06181
123	0.00000	0.01794	0.00000	-0.00120	0.00000	-0.00299



132	0.00000	0.06552	0.00000	-0.05829	0.00000	-0.01092
134	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
137	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
138	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
141	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
142	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298

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SUM	0.00000	2.67992	-3.52047	2.03558	-0.08454	-0.34533
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Condition **LC8=1.2D-W30**

43	-0.16015	0.14777	-0.49819	-0.54725	-0.20208	-0.02361
45	0.12906	0.48368	0.19575	-0.49530	0.17642	-0.08003
80	0.00001	0.01774	-0.00002	-0.00131	0.00000	-0.00296
81	-0.00001	0.01775	0.00002	-0.00131	0.00000	-0.00296
85	-0.58025	1.74527	-0.86436	-1.11420	-0.79807	-0.29652
86	0.00006	0.01761	-0.00011	-0.00139	0.00000	-0.00294
89	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
90	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
94	-0.01658	-0.08179	0.11593	0.05565	-0.00936	-0.00350
95	0.00001	0.00734	-0.00001	-0.00052	0.00000	-0.00122
99	-0.03564	1.17990	-1.25151	-0.03259	-0.15337	-0.15728
100	0.00001	0.01433	-0.00002	-0.00100	0.00000	-0.00239
106	-0.23015	0.49322	-0.44671	-0.39868	-0.46420	-0.08598
107	0.00004	0.01777	-0.00006	-0.00129	0.00000	-0.00296
110	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
111	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
114	-0.09233	-1.37537	0.21079	3.09667	-0.25246	0.22274
115	0.00003	0.01857	-0.00004	-0.00082	0.00000	-0.00310
118	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
119	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
122	-0.14621	-0.36339	-0.29895	0.41571	-0.32643	0.06818
123	0.00003	0.01796	-0.00004	-0.00118	0.00000	-0.00299
132	0.00000	0.06552	0.00000	-0.05829	0.00000	-0.01092
134	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
137	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
138	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
141	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
142	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298

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SUM	-1.13208	2.67992	-2.83755	0.85956	-2.02956	-0.43110
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Condition **LC9=1.2D-W60**

43	-0.41089	0.23151	-0.19225	-0.29652	-0.48464	-0.03607
45	0.07676	0.39363	0.15930	-0.41748	0.11170	-0.06493
80	-0.02321	0.01780	-0.00007	-0.00128	-0.00162	-0.00297
81	-0.02326	0.01777	0.00001	-0.00130	-0.00161	-0.00296
85	-0.91606	1.38009	-0.35135	-1.48397	-1.25363	-0.23906
86	-0.02314	0.01753	-0.00017	-0.00144	-0.00162	-0.00292
89	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
90	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
94	-0.08506	-0.07115	0.09976	0.03826	-0.03958	-0.01355
95	-0.00973	0.00733	-0.00004	-0.00052	-0.00068	-0.00122
99	-0.08977	0.26848	-0.31351	0.05465	-0.09544	-0.08680
100	-0.01949	0.01435	-0.00002	-0.00099	-0.00135	-0.00239
106	-0.48168	0.82152	-0.18078	-1.39792	-0.88820	-0.14220
107	-0.02317	0.01755	-0.00012	-0.00143	-0.00162	-0.00292
110	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
111	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
114	-0.46460	-0.73635	0.01763	1.70892	-0.81114	0.11590

115	-0.02318	0.01825	-0.00011	-0.00101	-0.00162	-0.00304
118	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
119	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
122	-0.28550	-0.05779	-0.15533	-0.04207	-0.53602	0.02253
123	-0.02320	0.01785	-0.00007	-0.00125	-0.00162	-0.00298
132	-0.08526	0.06552	0.00001	-0.05829	-0.07588	-0.01092
134	-0.02324	0.01785	-0.00001	-0.00125	-0.00161	-0.00298
137	-0.06200	0.04764	0.00000	-0.02480	-0.03229	-0.00794
138	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
141	-0.06200	0.04764	0.00000	-0.02480	-0.03229	-0.00794
142	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298

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SUM	-3.24369	2.67992	-0.91712	-1.95698	-4.15400	-0.51917
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Condition **LC10=1.2D-W90**

43	-0.40415	0.26181	-0.10464	-0.21953	-0.47485	-0.04108
45	0.07169	0.34321	0.11612	-0.36309	0.10050	-0.05655
80	-0.02321	0.01781	-0.00007	-0.00127	-0.00162	-0.00297
81	-0.02326	0.01778	0.00001	-0.00129	-0.00161	-0.00296
85	-0.94449	1.10161	-0.08390	-1.56839	-1.29685	-0.19346
86	-0.02313	0.01751	-0.00018	-0.00145	-0.00162	-0.00292
89	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
90	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
94	-0.10037	-0.03955	0.04576	0.02655	-0.05176	-0.01900
95	-0.00973	0.00732	-0.00005	-0.00051	-0.00068	-0.00122
99	-0.08722	-0.27266	0.24126	0.10249	-0.04627	-0.03441
100	-0.01949	0.01437	-0.00001	-0.00099	-0.00135	-0.00239
106	-0.53132	0.92833	-0.05332	-1.81962	-0.98765	-0.16004
107	-0.02316	0.01745	-0.00014	-0.00149	-0.00162	-0.00291
110	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
111	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
114	-0.57978	-0.22607	-0.16073	0.65359	-1.00924	0.03159
115	-0.02316	0.01801	-0.00014	-0.00115	-0.00162	-0.00300
118	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
119	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
122	-0.31209	0.13360	0.00011	-0.20802	-0.59796	-0.00591
123	-0.02319	0.01782	-0.00008	-0.00127	-0.00162	-0.00297
132	-0.08526	0.06552	0.00001	-0.05829	-0.07588	-0.01092
134	-0.02324	0.01785	-0.00001	-0.00125	-0.00161	-0.00298
137	-0.06200	0.04764	0.00000	-0.02480	-0.03229	-0.00794
138	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
141	-0.06200	0.04764	0.00000	-0.02480	-0.03229	-0.00794
142	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298

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SUM	-3.47457	2.67992	0.00000	-3.51705	-4.52113	-0.55379
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Condition **LC11=1.2D-W120**

43	-0.37107	0.29454	-0.01305	-0.14981	-0.42951	-0.04676
45	0.04757	0.28344	0.06865	-0.29929	0.06852	-0.04668
80	-0.02321	0.01783	-0.00006	-0.00126	-0.00162	-0.00297
81	-0.02326	0.01780	0.00001	-0.00128	-0.00161	-0.00297
85	-0.79785	0.67426	0.18997	-1.43808	-1.08013	-0.12074
86	-0.02315	0.01754	-0.00015	-0.00144	-0.00162	-0.00292
89	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
90	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
94	-0.09812	0.01552	-0.03219	0.00254	-0.05493	-0.02186
95	-0.00973	0.00730	-0.00005	-0.00051	-0.00068	-0.00122
99	-0.06823	-0.75963	0.75688	0.12417	0.01587	0.02732
100	-0.01949	0.01437	-0.00001	-0.00098	-0.00135	-0.00240

106	-0.48274	0.88083	0.09395	-1.94689	-0.87925	-0.15087
107	-0.02317	0.01742	-0.00013	-0.00150	-0.00162	-0.00290
110	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
111	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
114	-0.61399	0.44069	-0.30472	-0.75452	-1.05902	-0.07696
115	-0.02316	0.01769	-0.00015	-0.00134	-0.00162	-0.00295
118	-0.02325	0.01786	0.00000	0.00124	0.00161	-0.00298
119	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
122	-0.27239	0.40102	0.15823	-0.53241	-0.50495	-0.05184
123	-0.02320	0.01774	-0.00007	-0.00131	-0.00162	-0.00296
132	-0.08526	0.06552	0.00001	-0.05829	-0.07588	-0.01092
134	-0.02324	0.01785	-0.00001	-0.00125	-0.00161	-0.00298
137	-0.06200	0.04764	0.00000	-0.02480	-0.03229	-0.00794
138	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298
141	-0.06200	0.04764	0.00000	-0.02480	-0.03229	-0.00794
142	-0.02325	0.01786	0.00000	-0.00124	-0.00161	-0.00298

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SUM	-3.24369	2.67992	0.91712	-5.11555	-4.08044	-0.56327
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Condition **LC12=1.2D-W150**

43	-0.04280	0.51576	0.32800	-0.08443	-0.05736	-0.08530
45	0.04657	0.12634	0.00400	-0.15815	0.03885	-0.02074
80	0.00001	0.01785	-0.00001	-0.00125	0.00000	-0.00297
81	0.00000	0.01783	0.00001	-0.00126	0.00000	-0.00297
85	-0.25295	-0.25097	0.72914	-1.03904	-0.38949	0.03868
86	0.00004	0.01763	-0.00006	-0.00138	0.00000	-0.00294
89	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
90	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
94	-0.06035	0.11206	-0.13593	-0.05964	-0.04497	-0.02061
95	0.00001	0.00726	-0.00003	-0.00049	0.00000	-0.00121
99	0.00389	-1.48445	1.56208	0.11691	0.13109	0.13802
100	0.00000	0.01437	0.00001	-0.00098	0.00000	-0.00239
106	-0.20863	0.75760	0.38780	-2.06365	-0.44320	-0.12693
107	0.00004	0.01739	-0.00007	-0.00152	0.00000	-0.00290
110	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
111	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
114	-0.50198	1.71541	-0.34292	-3.59282	-0.89328	-0.28315
115	0.00008	0.01705	-0.00012	-0.00173	0.00000	-0.00284
118	0.00000	0.01786	0.00000	0.00124	0.00000	-0.00298
119	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
122	-0.11603	0.73962	0.30571	-1.04813	-0.27647	-0.11025
123	0.00003	0.01763	-0.00004	-0.00138	0.00000	-0.00294
132	0.00000	0.06552	0.00000	-0.05829	0.00000	-0.01092
134	0.00000	0.01785	0.00000	-0.00125	0.00000	-0.00298
137	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
138	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298
141	0.00000	0.04764	0.00000	-0.02480	0.00000	-0.00794
142	0.00000	0.01786	0.00000	-0.00124	0.00000	-0.00298

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SUM	-1.13208	2.67992	2.83755	-8.05059	-1.93484	-0.54504
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Condition **LC13=0.9D+Wo**

43	0.05338	0.47262	0.42386	0.02569	0.06194	-0.07893
45	-0.02605	-0.00450	-0.06124	-0.01950	-0.04976	0.00079
80	0.00000	0.01340	0.00001	-0.00093	0.00000	-0.00223
81	0.00000	0.01339	-0.00001	-0.00093	0.00000	-0.00223
85	0.21566	-0.98425	0.94669	-0.34124	0.27401	0.16681
86	-0.00002	0.01332	0.00003	-0.00098	0.00000	-0.00222
89	0.00000	0.01340	0.00000	0.00093	0.00000	-0.00223

90	0.00000	0.01340	0.00000	-0.00093	0.00000	-0.00223
94	-0.02377	0.17504	-0.20616	-0.10089	-0.02521	-0.01443
95	0.00000	0.00540	-0.00001	-0.00036	0.00000	-0.00090
99	0.03670	-1.80290	1.93025	0.07893	0.20401	0.20774
100	0.00000	0.01077	0.00002	-0.00074	0.00000	-0.00180
106	0.02141	0.34151	0.50096	-1.37432	0.02646	-0.05410
107	0.00000	0.01308	0.00000	-0.00112	0.00000	-0.00218
110	0.00000	0.01340	0.00000	0.00093	0.00000	-0.00223
111	0.00000	0.01340	0.00000	-0.00093	0.00000	-0.00223
114	-0.30078	2.56624	-0.41886	-5.46294	-0.49594	-0.42019
115	0.00004	0.01215	-0.00007	-0.00167	0.00000	-0.00203
118	0.00000	0.01340	0.00000	0.00093	0.00000	-0.00223
119	0.00000	0.01340	0.00000	-0.00093	0.00000	-0.00223
122	0.02343	0.91037	0.40500	-1.28367	0.04099	-0.14761
123	0.00000	0.01311	0.00000	-0.00110	0.00000	-0.00218
132	0.00000	0.04914	0.00000	-0.04372	0.00000	-0.00819
134	0.00000	0.01339	0.00000	-0.00094	0.00000	-0.00223
137	0.00000	0.03573	0.00000	-0.01860	0.00000	-0.00596
138	0.00000	0.01339	0.00000	-0.00093	0.00000	-0.00223
141	0.00000	0.03573	0.00000	-0.01860	0.00000	-0.00596
142	0.00000	0.01339	0.00000	-0.00093	0.00000	-0.00223
SUM	0.00000	2.00994	3.52047	-8.56949	0.03649	-0.39589

Condition **LC14=0.9D+W30**

43	0.10975	0.44585	0.39010	-0.01313	0.13373	-0.07507
45	-0.06748	-0.01138	-0.05222	-0.01167	-0.09351	0.00179
80	-0.00001	0.01340	0.00002	-0.00093	0.00000	-0.00223
81	0.00001	0.01340	-0.00001	-0.00093	0.00000	-0.00223
85	0.59348	-1.17035	0.80398	0.20363	0.82524	0.20309
86	-0.00007	0.01344	0.00011	-0.00090	0.00000	-0.00224
89	0.00000	0.01340	0.00000	0.00093	0.00000	-0.00223
90	0.00000	0.01340	0.00000	-0.00093	0.00000	-0.00223
94	0.02288	0.18004	-0.17830	-0.11893	0.00549	-0.00275
95	-0.00001	0.00539	0.00001	-0.00035	0.00000	-0.00090
99	0.04700	-1.12429	1.27732	-0.03930	0.17106	0.16870
100	-0.00001	0.01074	0.00002	-0.00075	0.00000	-0.00179
106	0.24266	-0.02201	0.45592	-0.53998	0.48139	0.00933
107	-0.00004	0.01327	0.00006	-0.00100	0.00000	-0.00221
110	0.00000	0.01340	0.00000	0.00093	0.00000	-0.00223
111	0.00000	0.01340	0.00000	-0.00093	0.00000	-0.00223
114	0.02737	2.48446	-0.17113	-5.39249	0.11481	-0.40437
115	-0.00001	0.01217	0.00002	-0.00166	0.00000	-0.00203
118	0.00000	0.01340	0.00000	0.00093	0.00000	-0.00223
119	0.00000	0.01340	0.00000	-0.00093	0.00000	-0.00223
122	0.15659	0.89155	0.31161	-1.38508	0.34647	-0.15418
123	-0.00003	0.01308	0.00005	-0.00112	0.00000	-0.00218
132	0.00000	0.04914	0.00000	-0.04372	0.00000	-0.00819
134	0.00000	0.01339	0.00000	-0.00094	0.00000	-0.00223
137	0.00000	0.03573	0.00000	-0.01860	0.00000	-0.00596
138	0.00000	0.01339	0.00000	-0.00093	0.00000	-0.00223
141	0.00000	0.03573	0.00000	-0.01860	0.00000	-0.00596
142	0.00000	0.01339	0.00000	-0.00093	0.00000	-0.00223
SUM	1.13208	2.00994	2.83755	-7.38833	1.98469	-0.30946

Condition **LC15=0.9D+W60**

43	0.36032	0.36179	0.08342	-0.26436	0.41612	-0.06256
45	-0.01505	0.07906	-0.01544	-0.08991	-0.02859	-0.01338
80	0.02321	0.01334	0.00006	-0.00097	0.00162	-0.00222
81	0.02325	0.01338	0.00000	-0.00094	0.00161	-0.00223
85	0.92860	-0.80292	0.29141	0.57304	1.27991	0.14526
86	0.02314	0.01353	0.00018	-0.00085	0.00162	-0.00225
89	0.02325	0.01340	0.00000	0.00093	-0.00161	-0.00223
90	0.02325	0.01340	0.00000	-0.00093	0.00161	-0.00223
94	0.09149	0.16952	-0.16256	-0.10140	0.03569	0.00726
95	0.00973	0.00540	0.00004	-0.00036	0.00068	-0.00090
99	0.10207	-0.21049	0.34048	-0.12682	0.11343	0.09830
100	0.01949	0.01071	0.00002	-0.00076	0.00136	-0.00178
106	0.49369	-0.35088	0.18953	0.46169	0.90442	0.06565
107	0.02317	0.01350	0.00013	-0.00087	0.00162	-0.00225
110	0.02325	0.01340	0.00000	0.00093	-0.00161	-0.00223
111	0.02325	0.01340	0.00000	-0.00093	0.00161	-0.00223
114	0.39979	1.84241	0.02141	-3.99779	0.67323	-0.29703
115	0.02319	0.01249	0.00010	-0.00147	0.00162	-0.00208
118	0.02325	0.01340	0.00000	0.00093	-0.00161	-0.00223
119	0.02325	0.01340	0.00000	-0.00093	0.00161	-0.00223
122	0.29590	0.58473	0.16827	-0.92502	0.55613	-0.10833
123	0.02320	0.01319	0.00008	-0.00106	0.00162	-0.00220
132	0.08526	0.04914	-0.00001	-0.04372	0.07588	-0.00819
134	0.02324	0.01339	0.00001	-0.00094	0.00161	-0.00223
137	0.06200	0.03573	0.00000	-0.01860	0.03229	-0.00596
138	0.02325	0.01339	0.00000	-0.00093	0.00161	-0.00223
141	0.06200	0.03573	0.00000	-0.01860	0.03229	-0.00596
142	0.02325	0.01339	0.00000	-0.00093	0.00161	-0.00223

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SUM	3.24369	2.00994	0.91712	-4.56156	4.10739	-0.22096
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Condition **LC16=0.9D+W90**

43	0.35345	0.33139	-0.00440	-0.34146	0.40616	-0.05753
45	-0.00990	0.12960	0.02784	-0.14443	-0.01730	-0.02178
80	0.02321	0.01332	0.00006	-0.00098	0.00162	-0.00222
81	0.02325	0.01337	0.00000	-0.00095	0.00161	-0.00223
85	0.95657	-0.52340	0.02432	0.65659	1.32229	0.09947
86	0.02313	0.01355	0.00019	-0.00084	0.00162	-0.00226
89	0.02325	0.01340	0.00000	0.00093	-0.00161	-0.00223
90	0.02325	0.01340	0.00000	-0.00093	0.00161	-0.00223
94	0.10667	0.13775	-0.10852	-0.08958	0.04783	0.01272
95	0.00973	0.00541	0.00005	-0.00036	0.00068	-0.00090
99	0.10090	0.33196	-0.21445	-0.17505	0.06442	0.04571
100	0.01949	0.01070	0.00002	-0.00076	0.00135	-0.00178
106	0.54290	-0.45738	0.06228	0.88302	1.00292	0.08344
107	0.02316	0.01360	0.00014	-0.00081	0.00162	-0.00227
110	0.02325	0.01340	0.00000	0.00093	-0.00161	-0.00223
111	0.02325	0.01340	0.00000	-0.00093	0.00161	-0.00223
114	0.51454	1.33030	0.19936	-2.93850	0.87045	-0.21243
115	0.02317	0.01273	0.00012	-0.00133	0.00162	-0.00212
118	0.02325	0.01340	0.00000	0.00093	-0.00161	-0.00223
119	0.02325	0.01340	0.00000	-0.00093	0.00161	-0.00223
122	0.32260	0.39265	0.01291	-0.75776	0.61820	-0.07976
123	0.02319	0.01323	0.00009	-0.00103	0.00162	-0.00220
132	0.08526	0.04914	-0.00001	-0.04372	0.07588	-0.00819
134	0.02324	0.01339	0.00001	-0.00094	0.00161	-0.00223
137	0.06200	0.03573	0.00000	-0.01860	0.03229	-0.00596
138	0.02325	0.01339	0.00000	-0.00093	0.00161	-0.00223
141	0.06200	0.03573	0.00000	-0.01860	0.03229	-0.00596