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MAST 1.2 - Latticed Tower Analysis (Unguyed) (c)1997,2004 Guymast Inc.

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[DEMOSU1] - 150ft self-supporting tower analysis - October 2004

MAST GEOMETRY ( ft )

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PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	4	120.00	150.00	5.00	5.00	5.00
X	4	60.00	120.00	11.00	5.00	10.00
X	4	0.00	60.00	17.00	11.00	20.00

MEMBER PROPERTIES

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MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	120.00	150.00	1.704	0.000	29000.	0.0000000
LE	100.00	120.00	3.016	0.000	29000.	0.0000000
LE	80.00	100.00	4.407	0.000	29000.	0.0000000
LE	60.00	80.00	5.581	0.000	29000.	0.0000000
LE	20.00	60.00	8.399	0.000	29000.	0.0000000
LE	0.00	20.00	11.908	0.000	29000.	0.0000000
DI	120.00	150.00	0.621	0.000	29000.	0.0000000
DI	60.00	120.00	0.799	0.000	29000.	0.0000000
DI	0.00	60.00	2.228	0.000	29000.	0.0000000
HO	125.00	150.00	1.242	0.000	29000.	0.0000000
HO	100.00	120.00	0.969	0.000	29000.	0.0000000
HO	70.00	100.00	0.844	0.000	29000.	0.0000000
HO	40.00	60.00	1.805	0.000	29000.	0.0000000

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LOADING CONDITION A =====

BARE - 100 mph wind AT AZIMUTH 0

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY..LOAD..AT		LOAD AZI	.....FORCES.....		.....MOMENTS.....	
		RADIUS ft	AZI		HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	128.0	9.00	225.0	0.0	0.32	0.06	0.00	0.00
C	125.0	4.50	45.0	0.0	0.10	0.06	0.00	0.00

C	90.0	4.50	45.0	0.0	0.04	0.03	0.00	0.00
C	45.0	9.00	225.0	0.0	0.24	0.06	0.00	0.00
C	32.0	3.18	0.0	0.0	0.13	0.13	0.00	0.00
D	150.0	0.00	0.0	0.0	0.15	0.07	0.00	-0.02
D	80.0	0.00	0.0	0.0	0.16	0.12	0.01	0.06
D	80.0	0.00	0.0	0.0	0.18	0.14	0.01	0.07
D	0.0	0.00	0.0	0.0	0.20	0.27	0.04	0.21

ANTENNA LOADING  
=====

.....ANTENNA.....			ATTACHMENT		.....ANTENNA FORCES.....			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD	125.0	27.0	4.5	45.0	1.77	0.02	0.17	0.25
HP	90.0	90.0	6.7	45.0	-0.01	-0.07	0.04	-0.02
HP	32.0	300.0	11.0	315.0	0.72	0.29	0.28	-0.03
HP	32.0	45.0	11.0	45.0	1.51	-0.38	0.45	0.46

SUPPRESS PRINTING  
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...FOR THIS LOADING..				.....MAXIMUMS.....			
LOADS	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN
INPUT		FORCES	LOADS			FORCES	LOADS
no	no	no	no	no	no	no	no

LOADING CONDITION B =====

BARE - 100 mph wind AT AZIMUTH 90

MAST LOADING  
=====

LOAD	ELEV	APPLY..	LOAD..	AT	LOAD	.....FORCES.....		.....MOMENTS.....	
TYPE	ft	RADIUS	AZI	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
		ft				kip	kip	ft-kip	ft-kip
C	128.0	9.00	225.0	90.0	90.0	0.32	0.06	0.00	0.02
C	125.0	4.50	45.0	90.0	90.0	0.10	0.06	0.00	0.02
C	90.0	4.50	45.0	90.0	90.0	0.04	0.03	0.00	0.02
C	45.0	9.00	225.0	90.0	90.0	0.24	0.06	0.00	0.02
C	32.0	3.18	0.0	90.0	90.0	0.13	0.13	0.00	0.02
D	150.0	0.00	0.0	90.0	90.0	0.15	0.07	0.00	0.02
D	80.0	0.00	0.0	90.0	90.0	0.16	0.12	0.01	-0.06
D	80.0	0.00	0.0	90.0	90.0	0.18	0.14	0.01	-0.07
D	0.0	0.00	0.0	90.0	90.0	0.20	0.27	0.04	-0.16

ANTENNA LOADING  
=====

.....ANTENNA.....			ATTACHMENT		.....ANTENNA FORCES.....			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip

STD	125.0	27.0	4.5	45.0	1.84	0.40	0.17	-0.54
HP	90.0	90.0	6.7	45.0	0.14	0.00	0.04	0.00
HP	32.0	300.0	11.0	315.0	-0.77	0.10	0.28	0.25
HP	32.0	45.0	11.0	45.0	1.51	0.38	0.45	-0.46

SUPPRESS PRINTING  
=====

LOADS INPUT	...FOR THIS LOADING..			.....MAXIMUMS.....			
	DISPL	MEMBER FORCES	FOUNDN LOADS	ALL	DISPL	MEMBER FORCES	FOUNDN LOADS
no	yes	yes	yes	no	no	no	no

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LOADING CONDITION C =====

BARE - 100 mph wind AT AZIMUTH 180

MAST LOADING  
=====

LOAD TYPE	ELEV ft	APPLY..LOAD..AT		LOAD AZI	.....FORCES.....		.....MOMENTS.....	
		RADIUS ft	AZI		HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	128.0	9.00	225.0	180.0	0.32	0.06	0.00	0.00
C	125.0	4.50	45.0	180.0	0.10	0.06	0.00	0.00
C	90.0	4.50	45.0	180.0	0.04	0.03	0.00	0.00
C	45.0	9.00	225.0	180.0	0.24	0.06	0.00	0.00
C	32.0	3.18	0.0	180.0	0.13	0.13	0.00	0.00
D	150.0	0.00	0.0	180.0	0.15	0.07	0.00	0.02
D	80.0	0.00	0.0	180.0	0.16	0.12	0.01	-0.06
D	80.0	0.00	0.0	180.0	0.18	0.14	0.01	-0.07
D	0.0	0.00	0.0	180.0	0.20	0.27	0.04	-0.21

ANTENNA LOADING  
=====

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT		.....ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD	125.0	27.0	4.5	45.0	-0.88	0.44	0.17	0.71
HP	90.0	90.0	6.7	45.0	-0.01	0.07	0.04	0.02
HP	32.0	300.0	11.0	315.0	-0.57	-0.30	0.28	-0.46
HP	32.0	45.0	11.0	45.0	-1.30	0.29	0.45	0.88

SUPPRESS PRINTING  
=====

LOADS INPUT	...FOR THIS LOADING..			.....MAXIMUMS.....			
	DISPL	MEMBER FORCES	FOUNDN LOADS	ALL	DISPL	MEMBER FORCES	FOUNDN LOADS
no	yes	yes	yes	no	no	no	no

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[DEMOSU1] - 150ft self-supporting tower analysis - October 2004

LOADING CONDITION A =====

BARE - 100 mph wind AT AZIMUTH 0

MAST DISPLACEMENTS:

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ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)--		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
150.0	-0.350	-0.023	0.002	-0.245	-0.016	-0.006
145.0	-0.328	-0.021	0.002	-0.245	-0.016	-0.006
140.0	-0.307	-0.020	0.002	-0.244	-0.016	-0.006
135.0	-0.285	-0.018	0.002	-0.241	-0.016	-0.006
130.0	-0.264	-0.017	0.001	-0.236	-0.016	-0.006
125.0	-0.243	-0.016	0.001	-0.226	-0.015	-0.005
120.0	-0.223	-0.014	0.001	-0.211	-0.015	-0.004
110.0	-0.185	-0.011	0.001	-0.193	-0.014	0.000
100.0	-0.151	-0.009	0.001	-0.167	-0.012	0.001
90.0	-0.121	-0.007	0.001	-0.147	-0.010	0.002
80.0	-0.095	-0.005	0.001	-0.125	-0.008	0.003
70.0	-0.072	-0.004	0.001	-0.104	-0.007	0.003
60.0	-0.053	-0.003	0.001	-0.084	-0.005	0.003
40.0	-0.025	-0.001	0.001	-0.054	-0.003	0.002
20.0	-0.008	0.000	0.000	-0.022	-0.001	0.001
0.0	0.000	0.000	0.000	0.000	0.000	0.000

ANTENNA AND REFLECTOR ROTATIONS

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ELEV ft	AZI deg	TYPE *	.....BEAM DEFLECTIONS (deg).....			
			ROLL	YAW	PITCH	TOTAL
125.0	27.0	STD	0.116	0.005	0.195	0.117
90.0	90.0	HP	0.147	0.002	-0.010	0.147
32.0	300.0	HP	-0.034	0.002	0.022	0.034
32.0	45.0	HP	0.031	0.002	0.027	0.031

\* EPR - Elliptical Passive Reflector  
RPR - Rectangular Passive Reflector  
For antenna types description please see the manual

FORCES IN MAST LEGS (kip)

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LENGTH ft	ELEV ft	.....LEG 45	.....LEG 135	.....AZIMUTHS..... 225	..... 315
	150.0	-----			
5.00	X	0.03	-0.11	-0.15	0.07
	145.0	-----			
5.00	X	0.23	-0.46	-0.65	0.42
	140.0	-----			
5.00	X	0.70	-1.09	-1.58	1.20
	135.0	-----			
5.00	X	1.34	-1.96	-2.94	2.38
	130.0	-----			
5.00	X	3.36	-3.28	-5.54	4.79
	125.0	-----			
5.00	X	5.47	-5.42	-8.06	6.76
	120.0	-----			
10.02	X	8.60	-8.70	-10.55	8.17
	110.0	-----			
10.02	X	13.93	-13.45	-15.15	11.35
	100.0	-----			
10.02	X	19.37	-18.67	-20.66	15.35
	90.0	-----			
10.02	X	23.76	-23.08	-25.31	18.89
	80.0	-----			
10.02	X	29.49	-29.12	-31.79	23.74
	70.0	-----			

10.02	X	33.77	-33.80	-36.72	27.52
		60.0	-----		
20.05	X	38.88	-38.68	-41.97	32.21
		40.0	-----		
20.05	X	50.88	-52.51	-56.55	42.98
		20.0	-----		
20.05	X	57.61	-61.87	-65.20	48.92
		0.0	-----		

FORCES IN MAST DIAGONALS (kip)

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LENGTH	ELEV	.....	FACE	AZIMUTHS.....	
ft	ft	0	90	180	270
		150.0	-----		
7.07	X	0.02	0.12	0.00	-0.15
		-0.01	-0.13	-0.03	0.14
		145.0	-----		
7.07	X	0.09	0.36	-0.03	-0.45
		0.00	-0.39	-0.12	0.42
		140.0	-----		
7.07	X	0.20	0.59	-0.09	-0.77
		0.04	-0.65	-0.25	0.71
		135.0	-----		
7.07	X	0.43	0.85	-0.26	-1.09
		0.19	-0.85	-0.50	1.01
		130.0	-----		
7.07	X	-0.28	0.57	0.42	-1.39
		-0.72	-1.68	0.05	1.47
		125.0	-----		
7.07	X	-0.54	1.97	0.13	-1.92
		0.17	-3.07	-0.37	1.90

		120.0	-----				
11.42	X	1.10	3.17	-1.42	-2.61		
		1.93	-3.13	-2.02	2.18		
		110.0	-----				
11.94	X	1.61	2.99	-1.89	-2.82		
		2.17	-2.92	-2.39	2.24		
		100.0	-----				
12.51	X	1.17	2.92	-1.36	-2.88		
		1.59	-2.88	-1.78	2.45		
		90.0	-----				
13.13	X	1.50	3.01	-1.73	-3.06		
		1.84	-2.98	-2.06	2.55		
		80.0	-----				
13.80	X	-0.17	3.06	0.11	-3.01		
		0.14	-3.09	-0.15	2.97		
		70.0	-----				
14.51	X	-0.16	3.19	0.06	-3.23		
		0.15	-3.22	-0.11	3.20		
		60.0	-----				
23.35	X	1.46	4.80	-2.33	-5.74		
		1.97	-5.49	-2.42	4.98		
		40.0	-----				
24.43	X	-2.53	5.61	1.66	-6.26		
		-1.60	-6.61	1.80	6.27		
		20.0	-----				
25.63	X	0.63	6.61	-1.64	-7.09		
		1.76	-6.78	-1.33	6.51		
		0.0	-----				

FORCES IN MAST HORIZONTALS (kip)

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LENGTH	ELEV	.....FACE	AZIMUTHS.....
ft	ft	0	90
		180	270

5.00	150.00 X	0.00	0.00	0.01	0.00
5.00	145.00 X	-0.03	0.01	0.06	0.01
5.00	140.00 X	-0.11	0.03	0.17	0.03
5.00	135.00 X	-0.31	0.02	0.39	0.05
5.00	130.00 X	0.09	0.43	0.12	0.04
5.00	125.00 X	-0.01	0.00	0.01	0.00
5.00	120.00 X	-0.29	0.37	0.55	0.06
6.00	110.00 X	-1.78	-0.04	2.00	0.25
7.00	100.00 X	-1.85	-0.04	2.07	0.27
8.00	90.00 X	-1.93	-0.09	2.17	0.28
9.00	80.00 X	-1.02	-0.01	1.15	0.15
10.00	70.00 X	-0.01	0.00	0.01	0.00
11.00	60.00 X	-0.99	0.17	1.31	0.21
13.00	40.00 X	-0.02	0.00	0.02	0.00
15.00	20.00 X	-0.01	0.00	0.01	0.00

FORCES IN HORIZONTAL BRACING (kip)

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LENGTH ft	ELEV ft	..... 45	.....LEG 135	AZIMUTHS..... 225	..... 315
7.07	150.00 X	0.00	-0.01	0.01	0.00
7.07	145.00 X	0.00	-0.02	0.02	0.00
7.07	140.00 X	0.00	-0.03	0.03	0.00
7.07	135.00 X	0.00	-0.04	0.04	0.00
7.07	130.00 X	0.00	-0.05	0.05	0.00
7.07	125.00 X	0.00	-0.06	0.05	0.00
7.07	120.00 X	0.00	-0.06	0.06	0.00
8.49	110.00 X	0.00	-0.04	0.04	0.00
9.90	100.00 X	0.00	-0.03	0.03	0.00
11.31	90.00 X	0.00	-0.02	0.02	0.00
12.73	80.00 X	0.00	-0.01	0.01	0.00
14.14	70.00 X	0.00	-0.01	0.01	0.00
15.56	60.00 X	0.00	-0.01	0.01	0.00
18.38	40.00 X	0.00	0.00	0.00	0.00
21.21	20.00 X	0.00	0.00	0.00	0.00

INDIVIDUAL FOUNDATION LOADS: (kip)

LEG AZI (DEG)	----LOAD----	---COMPONENTS----		TOTAL SHEAR
	NORTH	EAST	DOWN	
45.0	-7.52	-4.26	-63.36	8.65
135.0	-7.84	4.40	68.93	8.99
225.0	-8.25	-4.33	72.26	9.32
315.0	-7.05	3.06	-53.73	7.68

TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@ 182.1				@ 182.9	
-30.7	-1.1	30.7	24.1	-2195.4	-110.2	2198.1	10.2

LOADING CONDITION B =====

BARE - 100 mph wind AT AZIMUTH 90

LOADING CONDITION C =====

BARE - 100 mph wind AT AZIMUTH 180

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MAXIMUM MAST DISPLACEMENTS:

ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)--		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
150.0	-0.350 A	-0.341 B	0.002 C	-0.245 A	-0.239 B	0.015 C
145.0	-0.328 A	-0.320 B	0.002 C	-0.245 A	-0.239 B	0.015 C
140.0	-0.307 A	-0.299 B	0.002 C	-0.244 A	-0.238 B	0.015 C
135.0	-0.285 A	-0.278 B	0.002 C	-0.241 A	-0.235 B	0.015 C
130.0	-0.264 A	-0.257 B	0.002 C	-0.236 A	-0.230 B	0.015 C
125.0	-0.243 A	-0.237 B	0.002 C	-0.226 A	-0.220 B	0.014 C
120.0	-0.223 A	-0.217 B	0.002 C	-0.211 A	-0.205 B	0.011 C
110.0	-0.185 A	-0.180 B	0.001 C	-0.193 A	-0.187 B	-0.006 B

100.0	-0.151 A	-0.147 B	0.001 C	-0.167 A	-0.162 B	-0.005 B
90.0	-0.121 A	-0.118 B	0.001 C	-0.147 A	-0.143 B	-0.004 B
80.0	-0.095 A	-0.093 B	0.001 C	-0.125 A	-0.121 B	-0.004 B
70.0	-0.072 A	-0.071 B	0.001 C	-0.104 A	-0.101 B	-0.003 B
60.0	-0.053 A	-0.052 B	0.001 C	-0.084 A	-0.082 B	0.003 A
40.0	-0.025 A	-0.025 B	0.001 C	-0.054 A	-0.053 B	0.002 A
20.0	-0.008 A	-0.008 B	0.000 C	-0.022 A	-0.021 B	0.001 A
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS

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ELEV ft	AZI deg	TYPE *	.....BEAM DEFLECTIONS (deg).....			
			ROLL	YAW	PITCH	TOTAL
125.0	27.0	STD	0.208 B	0.014 C	0.195 A	0.208 B
90.0	90.0	HP	0.147 A	0.004 B	-0.143 B	0.147 A
32.0	300.0	HP	-0.034 A	0.002 A	0.037 B	0.034 A
32.0	45.0	HP	0.031 B	0.002 A	-0.028 C	0.031 B

MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
150.0	-----		0.01 B	0.01 B
	0.07 B	0.14 B		
145.0	-----		0.06 B	0.03 B
	0.43 B	0.42 B		
140.0	-----		0.17 C	0.04 B
	1.22 B	0.72 B		
135.0	-----		0.39 A	0.05 B
	2.42 B	1.02 B		
130.0	-----		0.43 A	0.06 B
	5.01 B	1.60 C		
125.0	-----		0.01 A	0.06 B
	6.76 A	2.59 C		
120.0	-----		0.57 C	0.07 B
	8.72 B	3.17 A		
110.0	-----		2.00 A	0.05 B
	14.22 B	2.99 A		
100.0	-----		2.07 A	0.03 B
	19.78 B	2.92 A		
90.0	-----		2.17 A	0.03 B
	24.26 B	3.01 A		
80.0	-----		1.15 A	0.02 B
	30.13 B	3.06 A		
70.0	-----		0.01 A	0.01 B
	34.49 B	3.23 B		
60.0	-----		1.31 A	0.01 B
	39.40 B	5.12 C		
40.0	-----		0.02 C	0.01 B
	51.93 B	6.34 C		
20.0	-----		0.01 A	0.00 B
	60.08 B	7.17 B		
0.0	-----		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
150.0	----- -0.15 B	----- -0.15 B	0.00 A	-0.01 B
145.0	----- -0.65 B	----- -0.46 B	-0.03 B	-0.03 B
140.0	----- -1.60 B	----- -0.77 B	-0.11 C	-0.04 B
135.0	----- -2.98 B	----- -1.11 B	-0.32 B	-0.05 B
130.0	----- -5.64 B	----- -1.68 A	-0.25 C	-0.06 B
125.0	----- -8.23 B	----- -3.07 A	-0.01 B	-0.07 B
120.0	----- -10.80 B	----- -3.13 A	-0.51 C	-0.07 B
110.0	----- -15.54 B	----- -2.98 B	-1.78 A	-0.05 B
100.0	----- -21.20 B	----- -3.01 B	-1.85 A	-0.03 B
90.0	----- -25.97 B	----- -3.21 B	-1.93 A	-0.02 B
80.0	----- -32.61 B	----- -3.09 A	-1.02 A	-0.02 B
70.0	----- -37.65 B	----- -3.26 B	-0.01 A	-0.01 B
60.0	----- -43.18 B	----- -5.74 A	-1.10 C	-0.01 B
40.0	----- -57.70 B	----- -6.71 B	-0.02 A	0.00 B
20.0	----- -65.33 B	----- -7.13 B	-0.01 A	0.00 B
0.0	----- -----	----- -----	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

-----LOAD-----COMPONENTS-----				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
-8.25 A	-8.02 B	72.26 A	-66.57 B	9.32 A

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@ 182.1				@ 182.9	
-30.7 A	-30.5 B	30.7 A	24.1 B	-2195.4 A	-2161.8 B	2198.1 A	10.2 A

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ORIGINAL DATA FILE :

c:\Documents and Settings\sean\My Documents\Projects\Website\samples\working\de

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[DEMOSU1] - 150ft self-supporting tower analysis - October 2004

MAST GEOMETRY

X 4 .0 60.0 17.0 11.0 20.0  
,, 60.0 120.0 11.0 5.0 10.0  
,, 120.0 150.0 5.0 5.0 5.0

MEMBER PROPERTIES

LE .0 20.0 11.908, 0, 29000, 0  
, 20.0 60.0 8.399  
, 60.0 80.0 5.581  
, 80.0 100.0 4.407  
, 100.0 120.0 3.016  
, 120.0 150.0 1.704  
DI, .0 60.0 2.228  
, 60.0 120.0 .799  
, 120.0 150.0 .621  
HO, 40.0 60.0 1.805  
, 70.0 100.0 .844  
, 100.0 120.0 .969  
, 125.0 150.0 1.242

BARE - 100 mph wind AT AZIMUTH 0

MAST LOADING

D 0 0 0 0 .2008 .2669 .0446 .213  
, 80,,,, .1798 .137 .0141 .0737  
,,,, .1626 .121 .0108 .0572  
, 150,,,, .1525 .0693 .0023 -.0166  
C 32. 3.182 0,, .1332 .1296 0 0  
, 45. 9. 225,,, .2403 .0592  
, 90. 4.5 45,, .0374 .0324  
, 125,,,, .0974 .0648  
, 128. 9. 225,,, .3171 .0579

ANTENNA LOADING

STD	125.00	27.00	4.50	45.00	1.775	.016	.168	.25
HP	90.00	90.00	6.70	45.00	-.015	-.069	.043	-.02
HP	32.00	45.00	11.00	45.00	1.512	-.376	.447	.46
HP	32.00	300.00	11.00	315.00	.717	.287	.281	-.03

SUPPRESS PRINTING

8\*0

BARE - 100 mph wind AT AZIMUTH 90

MAST LOADING

D 0 0 0 90 .2008 .2669 .0446 -.1618  
, 80,,,, .1798 .137 .0141 -.0737  
,,,, .1626 .121 .0108 -.0572  
, 150,,,, .1525 .0693 .0023 .0166  
C 32. 3.182,,, .1332 .1296  
, 45. 9. 225,,, .2403 .0592  
, 90., 4.5, 45,, .0374 .0324  
, 125,,,, .0974 .0648  
, 128. 9. 225,,, .3171 .0579

ANTENNA LOADING

STD	125.00	27.00	4.50	45.00	1.837	.404	.168	-.54
HP	90.00	90.00	6.70	45.00	.145	.000	.043	.00
HP	32.00	45.00	11.00	45.00	1.512	.376	.447	-.46
HP	32.00	300.00	11.00	315.00	-.769	.098	.281	.25

suppress printing

```

0,1,1,1,4*0
BARE - 100 mph wind AT AZIMUTH 180
MAST LOADING
D 0 0 0 180. .2008 .2669 .0446 -.213
, 80.,,,,, .1798 .137 .0141 -.0737
,,,,, .1626 .121 .0108 -.0572
, 150.,,,,, .1525 .0693 .0023 .0166
C 32. 3.182 0,, .1332 .1296 0 0
, 45. 9. 225.,,, .2403 .0592
, 90. 4.5 45.,,, .0374 .0324
, 125.,,,,, .0974 .0648
, 128. 9. 225.,,, .3171 .0579

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ANTENNA LOADING
STD      125.00   27.00    4.50   45.00   -.879   .439   .168   .71
HP       90.00   90.00    6.70   45.00   -.015   .069   .043   .02
HP       32.00   45.00   11.00   45.00  -1.302   .295   .447   .88
HP       32.00  300.00   11.00  315.00   -.573   -.302   .281  -.46

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END OF FILE

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ELAPSED CPU TIME      0.17 SECONDS.

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