

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
IN ACCORDANCE WITH AASHTO-1994 RQMTS. (FINAL DEFLECTED POSITION)
BY MLS 03/31/2010 VERSION Fuse 1.9.0.363

SUBJECT: MASSACHUSETTS, 25' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 25

ANALYSIS OF POLE: STRESSES

SECTION GROUP HEIGHT* LOAD (FT) NO.	COMB. STR. RATIO	APPLIED STRESS (KSI)			ALLOW. STRESS (KSI)		
		AXIAL	BEND.	SHEAR	AXIAL	BEND	SHEAR
20.00 1	0.30	0.11	10.68	0.00	33.00	36.30	18.15
20.00 2	0.67	0.10	9.18	17.73	33.00	50.82	25.41
20.00 3	0.45	0.16	16.26	8.99	33.00	50.82	25.41
12.00 1	0.23	0.14	8.02	0.00	33.00	36.30	18.15
12.00 2	0.59	0.12	15.50	13.45	33.00	50.82	25.41
12.00 3	0.36	0.20	15.50	5.85	33.00	50.82	25.41
10.00 1	0.21	0.15	7.51	0.00	33.00	36.30	18.15
10.00 2	0.61	0.14	18.28	12.71	33.00	50.82	25.41
10.00 3	0.37	0.23	16.51	4.97	33.00	50.82	25.41
0.00 1	0.16	0.17	5.55	0.00	33.00	36.30	18.15
0.00 2	0.73	0.17	29.72	9.47	33.00	50.82	25.41
0.00 3	0.42	0.25	20.48	1.82	33.00	50.82	25.41

* THESE HEIGHTS ARE ABOVE THE POLE BASE PLATE.