

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, 15' MAST ARM

FOLDER: MATR335 FILE: 15

ANALYSIS OF POLE: STRESSES

SECTION HEIGHT* (FT)	GROUP LOAD NO.	COMB. STR. RATIO	APPLIED STRESS (KSI)			ALLOW. STRESS (KSI)		
			AXIAL	BEND.	SHEAR	AXIAL	BEND	SHEAR
20.00	1	0.19	0.09	6.67	0.01	33.00	36.30	18.15
20.00	2	0.36	0.08	5.50	12.76	33.00	50.82	25.41
20.00	3	0.27	0.14	10.30	6.46	33.00	50.82	25.41
10.00	1	0.13	0.12	4.61	0.00	33.00	36.30	18.15
10.00	2	0.54	0.12	18.18	10.75	33.00	50.82	25.41
10.00	3	0.30	0.19	13.51	4.63	33.00	50.82	25.41
0.00	1	0.09	0.14	3.28	0.00	33.00	36.30	18.15
0.00	2	0.65	0.14	27.98	7.73	33.00	50.82	25.41
0.00	3	0.35	0.21	16.92	3.18	33.00	50.82	25.41

* THESE HEIGHTS ARE ABOVE THE POLE BASE PLATE.