

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, 30' MAST ARM

FOLDER: MATR335 FILE: 30

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	0.26	0.10	9.20	0.00	33.00	36.30	18.15
20.00	2	0.63	0.10	8.41	17.23	33.00	50.82	25.41
20.00	3	0.41	0.15	14.49	8.93	33.00	50.82	25.41
10.00	1	0.20	0.13	7.04	0.00	33.00	36.30	18.15
10.00	2	0.53	0.13	12.95	13.26	33.00	50.82	25.41
10.00	3	0.33	0.20	13.52	6.19	33.00	50.82	25.41
0.00	1	0.16	0.15	5.54	0.00	33.00	36.30	18.15
0.00	2	0.56	0.15	19.71	10.50	33.00	50.82	25.41
0.00	3	0.33	0.22	15.30	4.16	33.00	50.82	25.41

* THESE HEIGHTS ARE ABOVE THE POLE BASE PLATE.