

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: FORCES AND MOMENTS

SECTION GROUP HEIGHT* LOAD (FT)	NO.	FORCES (LBS)			MOMENTS (FT-LBS)			WIND DIRECT** (DEGREES)
		FX	FY	FZ	MX	MY	MZ	
20.00	1	4	0	307	0	2834	4	0
20.00	2	66	971	262	-8	2336	10355	90
20.00	3	26	492	465	-5	4377	5246	90
10.00	1	2	1	521	-806	2868	0	0
10.00	2	37	1354	486	-11414	2731	13039	90
10.00	3	288	590	784	-5753	6557	5567	65
0.00	1	0	0	683	-810	2882	0	0
0.00	2	2	1431	687	-25365	2847	13040	90
0.00	3	362	626	1025	-11431	10363	5267	60

* THESE HEIGHTS ARE ABOVE THE POLE BASE PLATE.
** THESE ARE DIRECTIONS TOWARD WHICH THE WIND IS FLOWING.
THEY ARE ANGLES FROM THE +X AXIS IN THE X-Y PLANE