

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, 20' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 20

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	7	0	346	0	4045	0	0
20.00 2	92	1065	293	-10	3300	14360	90
20.00 3	38	539	519	-7	6192	7292	90
10.00 1	4	0	560	0	4100	0	0
10.00 2	44	1448	521	-11574	3940	14360	90
10.00 3	397	543	839	-4145	9174	5191	55
0.00 1	0	0	721	0	4121	0	0
0.00 2	2	1524	726	-26469	4083	14361	90
0.00 3	515	514	1080	-8328	14624	4350	45

* 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