

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: FORCES AND MOMENTS

SECTION GROUP		FORCES (LBS) *			MOMENTS (FT-LBS)			WIND
HEIGHT*	LOAD	=====			=====			DIRECT**
(FT)	NO.	FX	FY	FZ	MX	MY	MZ	(DEGREES)
20.00	1	8	0	424	0	6168	0	0
20.00	2	93	1119	378	-11	5303	19827	90
20.00	3	41	568	631	-9	9396	10057	90
12.00	1	6	0	619	0	6229	0	0
12.00	2	64	1577	572	-10491	5912	19828	90
12.00	3	283	703	926	-4544	11152	8572	70
10.00	1	5	0	732	0	6242	0	0
10.00	2	56	1864	686	-13943	6025	19827	90
10.00	3	462	761	1101	-5432	12604	7633	60
0.00	1	0	0	914	0	6271	0	0
0.00	2	3	1945	916	-33022	6214	19828	90
0.00	3	826	385	1373	-6049	22346	3377	25

* 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