

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE
IN ACCORDANCE WITH AASHTO-1994 RQMTS. (FINAL DEFLECTED POSITION)
BY MJS 03/31/2010 VERSION Fuse 1.9.0.363

SUBJECT: MASSACHUSETTS, 35' MAST ARM (WORST CASE LOAD)

FOLDER: MATR335 FILE: 35

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	19	0	851	0	18152	0	0
20.00	2	163	1899	805	-22	16747	50684	90
20.00	3	84	1034	1242	-19	26827	26823	90
10.00	1	10	0	1167	0	18311	0	0
10.00	2	77	2296	1134	-20099	17905	50685	90
10.00	3	42	1276	1693	-11145	27468	26824	90
0.00	1	1	0	1435	0	18369	0	0
0.00	2	4	2405	1437	-43699	18164	50687	90
0.00	3	528	1129	2067	-19539	35985	21503	65

* 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