

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: 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	9	0	632	0	11337	0	0
20.00	2	112	1676	596	-14	10365	41127	90
20.00	3	50	884	957	-13	17849	21301	90
10.00	1	5	0	948	0	11413	0	0
10.00	2	54	2073	922	-17786	11163	41128	90
10.00	3	295	1012	1406	-8471	20223	19138	75
0.00	1	0	0	1216	0	11443	0	0
0.00	2	3	2186	1217	-39128	11342	41129	90
0.00	3	555	960	1778	-16188	27162	16057	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