

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

STRESSES WITH WIND ACTING PERPENDICULAR TO EACH ARM
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ANAL. LOCATION			GROUP LOAD NO.	COMB. STR. RATIO	APPLIED STRESS (KSI)			ALLOW. STRESS (KSI)		
ARM	ARM				AXIAL	BEND.	SHEAR	AXIAL	BEND.	SHEAR
TYPE	NO.	SITE								
SIG	1	BASE	1	0.31	0.00	11.09	0.21	33.00	36.30	18.15
SIG	1	BASE	2	0.73	0.03	37.00	0.61	33.00	50.82	25.41
SIG	1	BASE	3	0.49	0.01	24.79	0.43	33.00	50.82	25.41