

ANALYSIS OF VALMONT INDUSTRIES LIGHTING STRUCTURE  
 IN ACCORDANCE WITH AASHTO-2009 RQMTS. (FINAL DEFLECTED POSITION)  
 BY BNS 5/12/2014 VERSION Fuse 1.10.0.540 32-bit

SUBJECT: VERMONT, 34' & 31' MAST ARMS W/12' LUM ARM

FOLDER: VTTRAF FILE: 3431L12

GROUP IV ANALYSIS OF POLE:

SECTION HEIGHT* (FT)	LOAD CASE	AXIAL (LBS)	BENDING (FT-LBS)
0.0	NATURAL WIND GUST	N/A	11265
0.0	TRUCK GUST	N/A	3458

GROUP IV ANALYSIS OF POLE:

SECTION HEIGHT* (FT)	LOAD CASE	STRESS RATIO	STRESS CATEGORY	STRESS BENDING (KSI)
0.0	NATURAL WIND GUST	0.98	E	4.43
0.0	TRUCK GUST	0.31	E	1.38

\* THESE HEIGHTS ARE ABOVE THE POLE BASE PLATE.