

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, 15' MAST ARM

FOLDER: MATR335 FILE: 15

SIGNAL AND SIGN ARM 1

=====

SHAPE	= Round
SPAN LENGTH	= 15.00 FT
BASE O.D.	= 6.00 IN
TAPER	= 0.14 IN/FT
ATTACH. HT. *	= 20.00 FT
ORIENTATION **	= 0 DEGREES
SLOPE AT BASE	= 0 DEGREES
CENTROID LOCATION	
HORIZONTAL	= 6.97 FT
ABOVE ATTACH.	= 0.00 FT
UNBENT LENGTH	= 15.00 FT
MATERIAL-BASE	= S105 - 55 ksi
WEIGHT	= 143 LBS

ARM 1 SECTIONS

=====

BASE SECTION	
THICKNESS	= 0.1793 IN
LENGTH	= 15.00 FT
YIELD STRENGTH	= 55 KSI

* THIS IS HEIGHT OF ATTACHMENT TO POLE ABOVE BOTTOM OF
BASE PLATE OR TRANSFORMER BASE. SEE *** BELOW.
** ARM ORIENTATIONS ARE ANGLES FROM +X AXIS IN X-Y PLANE.
X AND Y AXIES ARE PERPENDICULAR/PARALLEL TO SIDES OF
POLE BASE PLATE. SEE *** BELOW.
*** IF ARM IS ATTACHED WITH A CLAMP, HEIGHT AND
ORIENTATION MUST NOT BE CHANGED FROM VALUES SHOWN
ABOVE WITHOUT CONSULTING VALMONT.