

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

ELEVATION OF FOUNDATION ABOVE SURROUNDING TERRAIN = 0.0 (FT)
 STEPS INCLUDED ? NO

RECURRENCE INTERVAL = 50 SPECIAL FATIGUE WIND SPEEDS
 FATIGUE CATEGORY = 2

TRUCK GUST: YES GALLOPING : NO TRUCK GUST = 45 MPH
 WIND VELOCITY = 90 MPH CRITERIA: AASHTO-2009
 AASHTO ICE INCLUDED ? YES

DESCRIPTION OF EPA LOADING *

POSITION OF LOAD	MOUNTING HEIGHT** (FT)	CENTROID HEIGHT** (FT)	DISTANCE TO CENT. FROM POLE (FT)	WEIGHT (LBS)	EFFECTIVE PROJECTED AREA SQ. (FT)
MAST ARM 1	20.00	27.00	27.00	50	2.00
MAST ARM 2	20.00	27.00	24.00	40	2.00

DESCRIPTION OF SIGNAL LOADING *

POSITION OF SIGNAL	MOUNTING HEIGHT** (FT)	CENTROID HEIGHT** (FT)	DISTANCE TO CENT. FROM POLE (FT)	SIGNAL WEIGHT (LBS)	SIGNAL VERTICAL PLANE (FT^2)	PROJECTED HORIZONTAL PLANE (FT^2)
ARM 1	20.00	20.00	34.00	96	13.72	3.60
ARM 1	20.00	20.00	34.00	70	8.67	1.80
ARM 1	20.00	20.00	20.00	70	8.67	1.80
ARM 2	20.00	20.00	31.00	96	13.72	3.60
ARM 2	20.00	20.00	31.00	70	8.67	1.80
ARM 2	20.00	20.00	17.00	70	8.67	1.80

DESCRIPTION OF LUMINAIRE *

MOUNTING** HEIGHT	CENTROID** HEIGHT	DISTANCE TO CENT. FROM POLE	WEIGHT	PROJECTED AREA
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