

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

POLE PROPERTIES

HEIGHT (FT)	DIAMETER (IN)	WALL THK. (IN)	ROUNDNESS RATIO %	D/T	MOMENTS OF INERTIA (IN^4)	SECTION MODULUS (IN^3)	AREA (IN^2)
27.00	9.220	0.2391	100.00	38.56	67.93	15.13	6.74
26.50	9.290	0.2391	100.00	38.85	69.53	15.36	6.80
24.25	9.605	0.2391	100.00	40.17	77.04	16.45	7.03
22.00	9.920	0.2391	100.00	41.49	85.08	17.58	7.27
20.00	10.200	0.2391	100.00	42.66	92.68	18.61	7.48
18.50	10.410	0.2391	100.00	43.54	98.66	19.40	7.64
17.00	10.620	0.2391	100.00	44.42	104.90	20.21	7.80
14.50	10.970	0.2391	100.00	45.88	115.87	21.60	8.06
12.00	11.320	0.2391	100.00	47.34	127.58	23.03	8.32
9.50	11.670	0.2391	100.00	48.81	140.06	24.50	8.58
7.00	12.020	0.2391	100.00	50.27	153.32	26.03	8.85
4.50	12.370	0.2391	100.00	51.74	167.39	27.60	9.11
2.00	12.720	0.2391	100.00	53.20	182.30	29.21	9.37
0.00	13.000	0.2391	100.00	54.37	194.85	30.54	9.58