

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P157968

Luminaire Tested: **VTS-E12-LED-E1-RW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157968  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E12-LED-E1-RW-8030  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (252) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31552.6 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B5 - U0 - G5

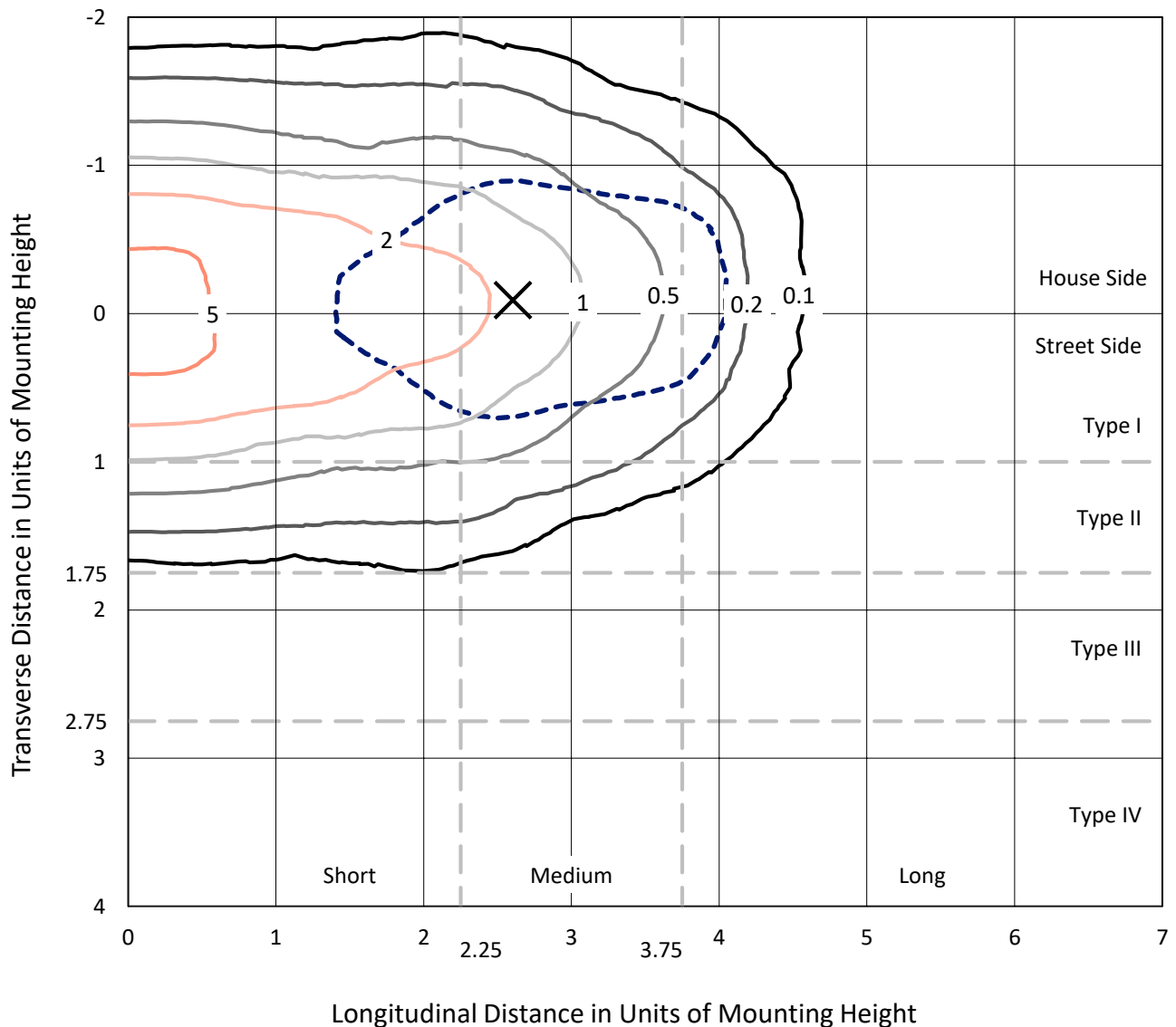
Input Watts (W): 291.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

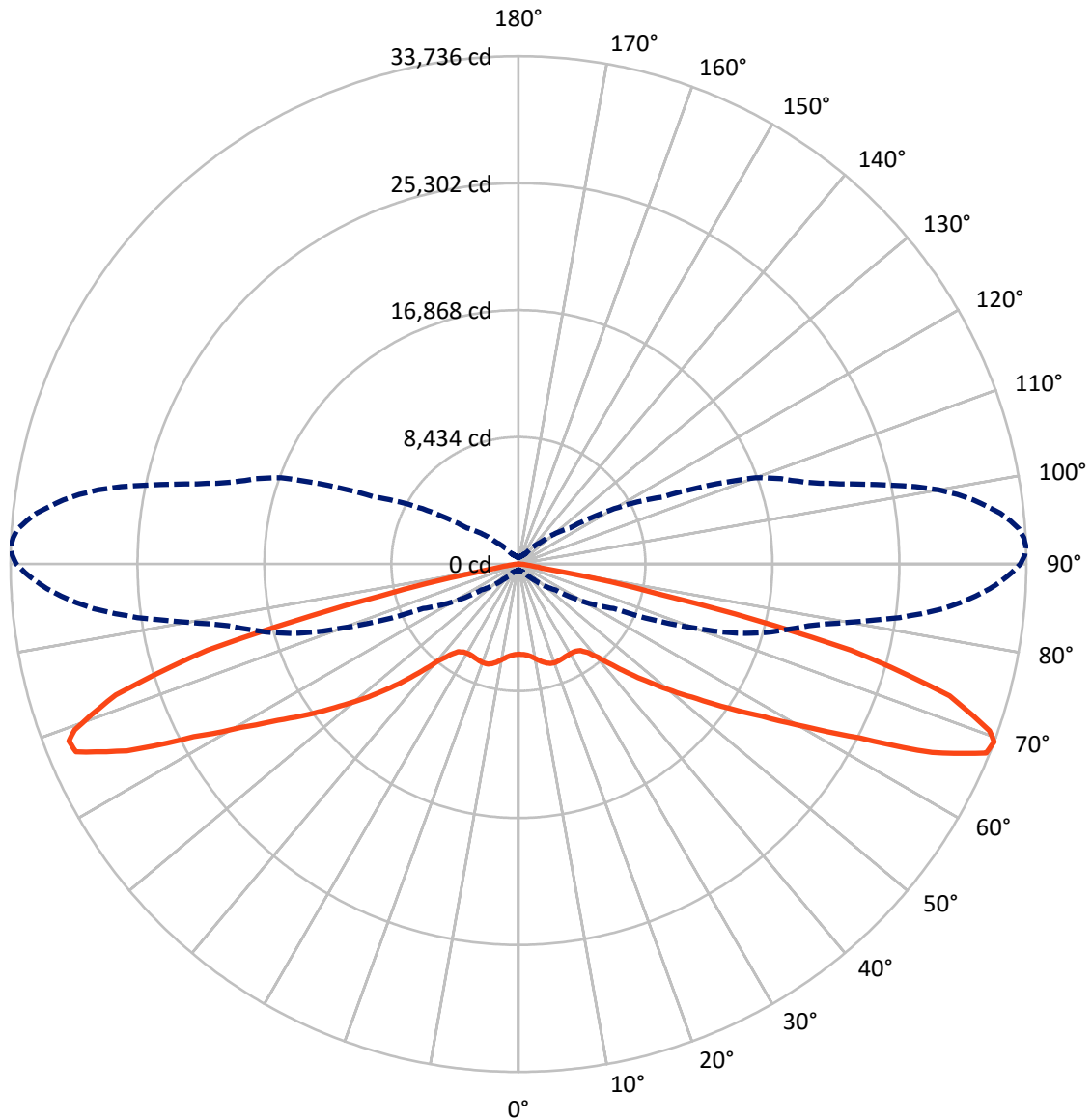
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type I - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16734.0	0.0	16734.0
	% Fixture	53.0	0.0	53.0
<b>Street Side</b>	Lumens	14818.6	0.0	14818.6
	% Fixture	47.0	0.0	47.0
<b>Total</b>	Lumens	31552.6	0.0	31552.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.5	1.9
10°-20°	1852.7	5.9
20°-30°	3005.9	9.5
30°-40°	3746.1	11.9
40°-50°	4664.3	14.8
50°-60°	5752.3	18.2
60°-70°	7143.9	22.6
70°-80°	4389.5	13.9
80°-90°	411.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31552.6	100.0
0°-180°	31552.6	100.0



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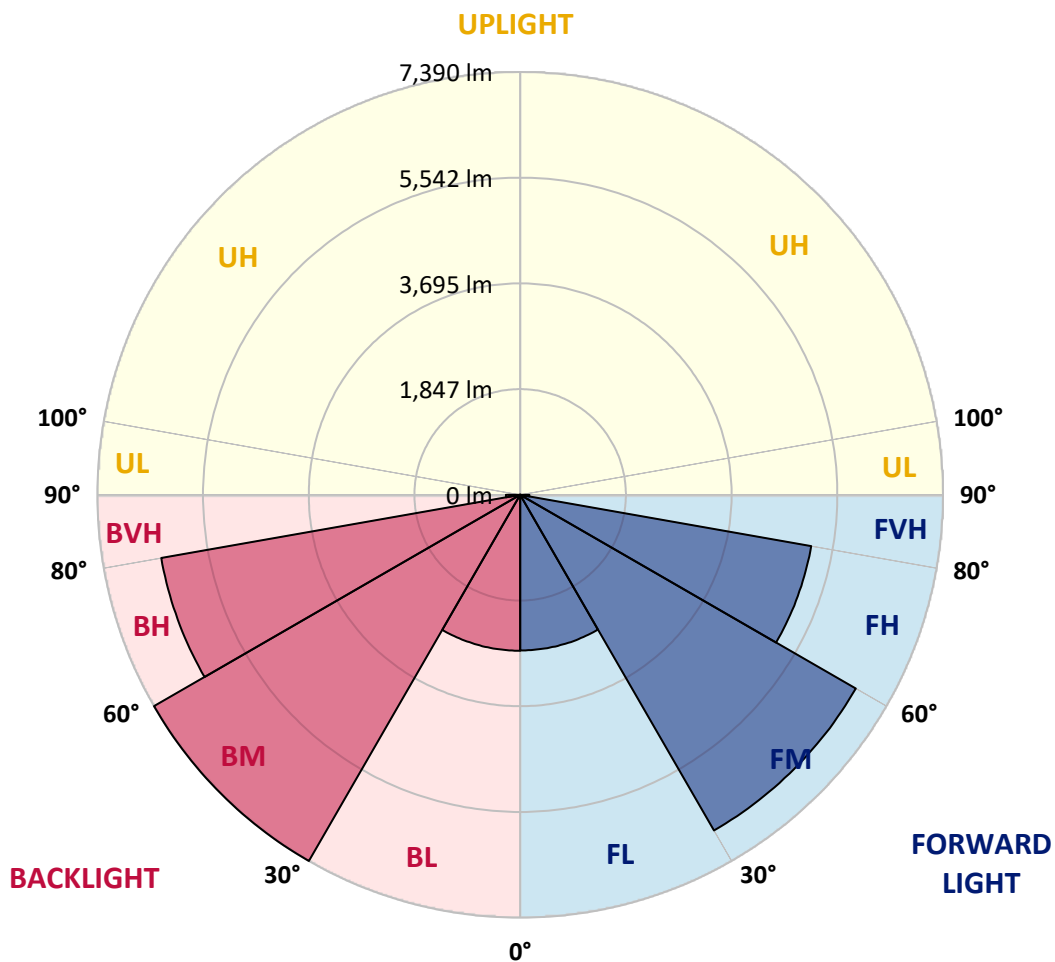
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2719.7	8.6			
FM	(30°-60°)	6773.1	21.5			
FH	(60°-80°)	5164.7	16.4			G3/7500
FVH	(80°-90°)	161.1	0.5			G2/225
BL	(0°-30°)	2725.4	8.6	B4/5000		
BM	(30°-60°)	7389.6	23.4	B4/8500		
BH	(60°-80°)	6368.7	20.2	B5		G5
BVH	(80°-90°)	250.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7
2.5°	6088.9	6072.7	6086.9	6088.9	6086.9	6086.9	6068.6	6064.6	6040.3	6046.4	6044.3
5°	6171.9	6165.9	6176.0	6180.0	6184.1	6176.0	6161.8	6155.7	6139.5	6133.5	6131.4
7.5°	6248.9	6238.8	6255.0	6269.2	6279.3	6281.3	6283.3	6273.2	6273.2	6265.1	6265.1
10°	6313.7	6305.6	6332.0	6350.2	6382.6	6400.8	6421.1	6435.3	6443.4	6445.4	6443.4
12.5°	6342.1	6336.0	6378.5	6433.2	6494.0	6536.5	6587.2	6623.6	6633.8	6631.7	6641.9
15°	6293.5	6297.5	6362.3	6469.7	6599.3	6706.7	6777.6	6808.0	6816.1	6820.1	6822.1
17.5°	6161.8	6169.9	6263.1	6437.3	6664.2	6858.6	6963.9	6963.9	6947.7	6947.7	6945.7
20°	5951.1	5959.3	6080.8	6332.0	6666.2	6963.9	7113.8	7083.4	7022.7	7010.5	6998.4
22.5°	5659.5	5691.9	5825.6	6117.2	6579.1	6994.3	7207.0	7162.4	7067.2	7040.9	7022.7
25°	5329.3	5325.2	5485.3	5813.4	6368.4	6921.4	7233.3	7225.2	7124.0	7095.6	7063.2
27.5°	4952.5	4964.7	5112.6	5444.8	6046.4	6710.7	7188.8	7296.1	7213.1	7184.7	7154.3
30°	4565.7	4577.8	4717.6	5104.5	5679.7	6408.9	7097.6	7365.0	7332.6	7310.3	7290.1
32.5°	4176.7	4180.8	4346.9	4762.1	5369.8	6048.4	6959.9	7427.8	7472.4	7462.2	7454.1
35°	3812.1	3816.2	3996.5	4417.8	5063.9	5740.5	6793.8	7518.9	7662.8	7674.9	7683.0
37.5°	3457.7	3463.7	3648.1	4089.6	4762.1	5507.5	6609.5	7658.7	7930.1	7974.7	7982.8
40°	3105.2	3111.3	3287.5	3755.4	4456.3	5303.0	6467.7	7855.2	8290.7	8351.5	8414.3
42.5°	2769.0	2791.2	2941.1	3388.8	4116.0	5049.8	6406.9	8094.2	8718.1	8813.3	8884.2
45°	2455.0	2457.0	2627.2	3046.5	3712.9	4707.4	6366.4	8365.6	9196.1	9339.9	9437.2
47.5°	2118.8	2143.1	2321.3	2728.5	3336.1	4284.1	6236.8	8683.7	9716.7	9884.8	10081.3
50°	1792.6	1827.1	1999.2	2402.3	2991.8	3846.6	5888.4	9056.4	10302.1	10520.9	10747.7
52.5°	1478.7	1476.6	1658.9	2078.2	2645.4	3475.9	5323.2	9447.3	10978.6	11213.6	11458.7
55°	1118.1	1118.1	1298.4	1681.2	2270.7	3145.7	4717.6	9690.4	11606.6	11890.1	12157.5
57.5°	767.7	787.9	958.1	1288.3	1879.7	2843.9	4253.7	9550.6	12086.6	12439.1	12757.1
60°	569.2	589.4	715.0	925.7	1470.6	2487.4	3905.3	8892.3	12376.3	12844.2	13257.4
62.5°	492.2	506.4	625.9	741.4	1059.4	2108.6	3597.4	8055.7	12793.6	13433.6	14008.9
65°	439.6	453.7	573.2	640.1	828.5	1695.4	3425.3	7577.7	13291.8	14270.2	15104.7
67.5°	407.1	423.3	524.6	573.2	723.1	1533.4	3291.6	7466.3	13287.8	14474.8	15540.2
69°	390.9	403.1	486.1	538.8	698.8	1484.7	3001.9	6982.2	12410.7	13684.8	14754.3
70°	380.8	393.0	463.9	516.5	690.7	1397.6	2734.5	6342.1	11412.1	12694.3	13780.0
72.5°	348.4	360.6	413.2	461.8	575.3	933.8	1906.1	4059.3	8155.0	9070.5	10312.2
75°	307.9	322.1	362.6	403.1	435.5	540.8	1099.9	2106.6	4662.9	5357.7	6463.6
77.5°	251.2	265.4	307.9	372.7	368.7	411.2	715.0	1294.3	2183.6	2708.2	3117.4
80°	206.6	216.7	253.2	376.8	301.8	344.3	579.3	1061.4	1537.4	1699.5	1796.7
82.5°	137.7	151.9	196.5	295.7	230.9	245.1	433.5	992.5	1300.4	1426.0	1543.5
85°	64.8	70.9	119.5	158.0	139.8	131.7	247.1	700.9	968.2	1027.0	1071.5
87.5°	0.0	0.0	6.1	12.2	18.2	18.2	44.6	147.9	271.4	328.1	324.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7
2.5°	6036.2	6038.2	6036.2	6036.2	6034.2	6030.1	6030.1	6026.1	6028.1	6026.1	6030.1
5°	6129.4	6129.4	6123.3	6119.3	6125.3	6119.3	6121.3	6111.2	6111.2	6105.1	6097.0
7.5°	6263.1	6263.1	6265.1	6253.0	6261.1	6263.1	6257.0	6253.0	6248.9	6238.8	6240.8
10°	6441.3	6441.3	6447.4	6431.2	6439.3	6443.4	6445.4	6445.4	6441.3	6423.1	6425.1
12.5°	6639.8	6635.8	6637.8	6629.7	6637.8	6641.9	6645.9	6641.9	6641.9	6637.8	6635.8
15°	6820.1	6818.1	6822.1	6816.1	6818.1	6822.1	6834.3	6832.3	6830.2	6818.1	6818.1
17.5°	6943.7	6937.6	6933.6	6931.5	6931.5	6929.5	6931.5	6931.5	6925.5	6923.4	6923.4
20°	6990.3	6974.1	6963.9	6957.9	6949.8	6945.7	6941.7	6943.7	6939.6	6933.6	6935.6
22.5°	6998.4	6976.1	6955.8	6937.6	6921.4	6911.3	6901.1	6897.1	6887.0	6880.9	6880.9
25°	7036.9	7002.4	6970.0	6939.6	6915.3	6893.0	6870.8	6854.6	6842.4	6828.2	6824.2
27.5°	7121.9	7085.5	7047.0	7008.5	6976.1	6931.5	6901.1	6868.7	6840.4	6818.1	6801.9
30°	7253.6	7217.1	7178.6	7134.1	7091.5	7045.0	6994.3	6955.8	6915.3	6870.8	6846.5
32.5°	7427.8	7403.5	7365.0	7322.5	7284.0	7235.4	7174.6	7115.9	7077.4	7024.7	6986.2
35°	7676.9	7648.6	7636.4	7618.2	7579.7	7549.3	7482.5	7427.8	7391.3	7318.4	7290.1
37.5°	8017.2	8015.2	8025.3	8019.3	8025.3	7986.9	7956.5	7954.4	7901.8	7830.9	7762.0
40°	8481.1	8505.4	8560.1	8598.6	8635.0	8639.1	8681.6	8637.1	8643.1	8633.0	8562.1
42.5°	9009.8	9092.8	9157.6	9271.1	9358.2	9439.2	9493.9	9568.8	9625.5	9676.2	9688.3
45°	9599.2	9722.8	9872.7	9973.9	10144.1	10279.8	10466.2	10610.0	10759.9	10907.7	10960.4
47.5°	10239.3	10393.2	10559.3	10747.7	10962.4	11175.1	11462.7	11683.5	11924.6	12125.1	12303.4
50°	10946.2	11106.2	11329.1	11545.8	11841.5	12086.6	12463.4	12753.0	13142.0	13409.3	13640.2
52.5°	11683.5	11884.1	12133.2	12372.2	12674.0	12988.0	13407.3	13834.7	14302.6	14707.7	15044.0
55°	12404.6	12651.8	12890.8	13170.3	13504.5	13869.1	14343.1	14906.2	15489.6	15953.5	16399.1
57.5°	13046.7	13332.4	13613.9	13897.5	14239.8	14663.2	15195.9	15803.6	16472.0	17089.8	17701.5
60°	13642.3	13984.6	14328.9	14683.4	15076.4	15599.0	16239.1	16986.5	17851.4	18696.1	19496.2
62.5°	14584.2	15033.8	15461.2	15919.0	16393.0	17006.8	17762.3	18742.7	19735.2	20790.5	21610.9
65°	15860.3	16492.3	17051.3	17644.8	18258.6	19078.9	19982.3	21155.1	22577.1	23658.8	24975.4
67.5°	16494.3	17326.8	18045.9	18706.2	19465.8	20294.3	21367.8	22755.3	24272.5	25840.3	27308.8
69°	15748.9	16607.7	17403.8	18143.1	18910.8	19715.0	20837.1	22261.1	23865.4	25560.8	26994.9
70°	14782.7	15641.5	16490.2	17332.9	18033.7	18817.6	19943.8	21412.4	23014.6	24776.9	26198.8
72.5°	11325.0	12358.1	13125.7	13915.7	14728.0	15392.4	16692.8	17930.4	19599.5	21388.1	22953.9
75°	7245.5	8195.5	9034.1	9706.6	10500.6	11296.6	12256.8	13632.1	14677.3	16145.9	17415.9
77.5°	3723.0	4004.6	4812.8	5053.8	5604.8	6038.2	6566.9	6911.3	7762.0	7942.3	8691.8
80°	1764.3	1590.1	1496.9	1411.8	1436.1	1426.0	1383.5	1326.8	1397.6	1367.3	1355.1
82.5°	1537.4	1371.3	1093.8	929.7	804.2	682.6	587.4	538.8	544.9	561.1	567.2
85°	1077.6	1012.8	790.0	599.6	467.9	362.6	291.7	279.5	287.6	309.9	301.8
87.5°	311.9	326.1	287.6	200.5	139.8	101.3	79.0	89.1	85.1	83.0	87.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7
2.5°	6030.1	6028.1	6022.0	6016.0	6016.0	6011.9	6016.0	6018.0	6016.0	6016.0	6011.9
5°	6099.0	6101.0	6107.1	6095.0	6092.9	6095.0	6086.9	6084.8	6078.8	6084.8	6076.7
7.5°	6230.7	6236.8	6236.8	6228.7	6226.6	6232.7	6220.6	6216.5	6210.4	6208.4	6206.4
10°	6427.2	6433.2	6423.1	6417.0	6411.0	6419.1	6408.9	6408.9	6402.9	6396.8	6394.8
12.5°	6645.9	6641.9	6637.8	6641.9	6635.8	6635.8	6629.7	6625.7	6623.6	6621.6	6617.6
15°	6816.1	6830.2	6830.2	6834.3	6830.2	6830.2	6822.1	6824.2	6820.1	6818.1	6820.1
17.5°	6925.5	6929.5	6939.6	6945.7	6945.7	6947.7	6943.7	6947.7	6943.7	6943.7	6951.8
20°	6939.6	6943.7	6953.8	6963.9	6970.0	6974.1	6974.1	6980.1	6984.2	6988.2	6998.4
22.5°	6882.9	6889.0	6901.1	6919.4	6929.5	6933.6	6941.7	6951.8	6961.9	6970.0	6984.2
25°	6824.2	6826.2	6838.4	6856.6	6868.7	6878.9	6893.0	6905.2	6919.4	6935.6	6951.8
27.5°	6791.8	6789.7	6799.9	6818.1	6828.2	6842.4	6854.6	6872.8	6889.0	6909.2	6923.4
30°	6820.1	6803.9	6805.9	6814.0	6822.1	6832.3	6846.5	6862.7	6880.9	6899.1	6915.3
32.5°	6945.7	6909.2	6884.9	6878.9	6880.9	6882.9	6891.0	6901.1	6915.3	6929.5	6935.6
35°	7217.1	7154.3	7121.9	7095.6	7073.3	7055.1	7059.1	7057.1	7057.1	7069.3	7055.1
37.5°	7733.7	7654.7	7620.2	7573.6	7547.3	7480.5	7462.2	7458.2	7431.8	7431.8	7401.5
40°	8543.9	8497.3	8471.0	8428.4	8300.8	8317.0	8225.9	8227.9	8153.0	8161.1	8108.4
42.5°	9696.4	9702.5	9670.1	9641.8	9542.5	9497.9	9412.9	9291.3	9196.1	9194.1	9088.8
45°	11029.3	11102.2	10998.9	11035.4	10948.3	10828.7	10729.5	10573.5	10425.7	10379.1	10271.7
47.5°	12422.9	12542.4	12463.4	12477.6	12435.0	12264.9	12131.2	11938.8	11746.3	11616.7	11551.9
50°	13911.7	13990.7	13988.6	13950.2	13929.9	13763.8	13549.1	13403.3	13261.5	13087.3	13030.5
52.5°	15260.7	15445.0	15568.6	15540.2	15481.5	15382.2	15191.8	15066.3	14857.6	14833.3	14857.6
55°	16704.9	16944.0	17069.5	17221.5	17223.5	17205.3	17126.3	17079.7	16885.2	16907.5	16879.1
57.5°	18072.2	18422.6	18615.1	18939.2	19050.6	19198.4	19143.7	19204.5	19087.0	19164.0	19141.7
60°	19925.6	20411.8	20731.8	21175.4	21382.0	21752.7	21825.6	21870.2	21935.0	22093.0	22003.9
62.5°	22257.1	22970.1	23634.4	24238.1	24436.6	24993.6	25084.8	25433.2	25451.4	25558.7	25362.3
65°	26073.2	26942.2	27673.4	28396.6	28813.9	29466.1	29729.4	30406.0	30199.3	30286.4	29867.2
67.5°	28572.8	29583.6	30563.9	31248.6	31941.3	32607.8	33087.8	33525.3	33521.3	33436.2	33063.5
69°	28352.0	29478.2	30444.4	31362.0	32091.2	32775.9	33353.2	33636.8	33736.0	33612.4	33347.1
70°	27588.4	28745.0	29927.9	30683.5	31477.5	32229.0	32824.5	33134.4	33203.3	33116.2	32887.3
72.5°	24059.8	25169.8	26474.3	27161.0	28121.1	28664.0	29484.3	29885.4	29956.3	29844.9	29695.0
75°	18777.1	18977.6	20306.4	20743.9	21440.7	22066.6	22577.1	22447.5	22810.0	22739.1	22682.4
77.5°	8845.7	8310.9	9171.8	9572.9	9362.2	8801.1	9617.4	9028.0	9418.9	9927.4	9797.7
80°	1458.4	1454.4	1492.9	1577.9	1476.6	1567.8	1565.8	1521.2	1525.3	1634.6	1577.9
82.5°	561.1	573.2	579.3	595.5	595.5	597.5	607.7	619.8	609.7	630.0	625.9
85°	303.8	324.1	305.9	291.7	301.8	307.9	316.0	326.1	316.0	346.4	330.2
87.5°	79.0	83.0	72.9	72.9	70.9	64.8	64.8	68.9	74.9	89.1	97.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7
2.5°	6003.8	6005.8	6007.9	6001.8	5997.7	5997.7	5995.7	5991.7	5989.6	5989.6	5989.6
5°	6072.7	6076.7	6066.6	6064.6	6060.5	6056.5	6056.5	6052.4	6054.5	6054.5	6044.3
7.5°	6210.4	6204.3	6192.2	6184.1	6192.2	6178.0	6171.9	6176.0	6171.9	6174.0	6169.9
10°	6394.8	6394.8	6380.6	6388.7	6378.5	6362.3	6368.4	6362.3	6358.3	6344.1	6352.2
12.5°	6623.6	6617.6	6609.5	6591.2	6585.2	6583.1	6564.9	6566.9	6560.8	6556.8	6550.7
15°	6824.2	6822.1	6803.9	6793.8	6791.8	6783.7	6775.6	6771.5	6761.4	6759.4	6755.3
17.5°	6957.9	6951.8	6943.7	6933.6	6933.6	6921.4	6917.3	6907.2	6905.2	6899.1	6893.0
20°	7002.4	7004.4	6996.3	6988.2	6984.2	6976.1	6970.0	6961.9	6957.9	6949.8	6943.7
22.5°	6992.3	6992.3	6984.2	6982.2	6974.1	6961.9	6953.8	6943.7	6933.6	6923.4	6911.3
25°	6959.9	6957.9	6951.8	6941.7	6931.5	6913.3	6897.1	6880.9	6866.7	6854.6	6836.3
27.5°	6931.5	6927.5	6915.3	6901.1	6880.9	6860.6	6830.2	6808.0	6789.7	6773.5	6753.3
30°	6921.4	6907.2	6889.0	6866.7	6842.4	6812.0	6779.6	6751.3	6731.0	6714.8	6706.7
32.5°	6933.6	6915.3	6887.0	6858.6	6828.2	6791.8	6759.4	6735.0	6716.8	6712.8	6712.8
35°	7045.0	7014.6	6976.1	6935.6	6897.1	6866.7	6844.4	6842.4	6830.2	6844.4	6866.7
37.5°	7371.1	7344.7	7286.0	7233.3	7207.0	7192.8	7172.6	7176.6	7148.3	7192.8	7229.3
40°	8063.8	8031.4	7962.5	7920.0	7867.3	7816.7	7857.2	7845.1	7865.3	7857.2	7895.7
42.5°	9074.6	9042.2	8932.8	8916.6	8894.3	8874.1	8874.1	8857.9	8849.8	8878.1	8845.7
45°	10304.1	10239.3	10198.8	10247.4	10180.6	10200.8	10271.7	10176.5	10198.8	10067.1	9945.6
47.5°	11580.2	11574.2	11564.0	11622.8	11632.9	11663.3	11701.8	11604.5	11428.3	11329.1	11081.9
50°	13048.8	13111.6	13135.9	13192.6	13216.9	13239.2	13178.4	13034.6	12736.8	12473.5	12181.8
52.5°	14833.3	14723.9	14873.8	14928.5	14904.2	14815.1	14596.3	14420.1	14008.9	13630.1	13178.4
55°	16911.6	16937.9	16832.6	16790.0	16707.0	16459.8	16158.0	15761.0	15240.5	14746.2	14175.0
57.5°	19028.3	19018.2	18854.1	18623.2	18341.6	18043.9	17594.2	17025.0	16417.3	15752.9	15062.2
60°	21602.8	21592.7	21260.5	20865.5	20464.4	19984.4	19279.5	18594.8	17780.5	16907.5	16085.1
62.5°	24985.5	24550.0	24223.9	23634.4	23014.6	22386.7	21432.6	20523.2	19435.4	18333.5	17373.4
65°	29320.2	28603.2	28232.5	27377.7	26417.6	25437.2	24467.0	23271.9	21807.4	20474.5	19301.7
67.5°	32526.7	31870.4	31191.9	30339.1	29285.8	28192.0	26863.2	25358.2	23695.2	22200.3	20922.2
69°	32808.3	32194.5	31380.3	30525.5	29528.9	28339.9	26889.6	25204.3	23519.0	22005.9	20748.0
70°	32380.9	31728.7	30871.8	29982.6	28868.5	27746.4	26227.2	24471.0	22783.7	21266.5	20039.0
72.5°	29192.6	28556.6	27645.1	26581.7	25439.2	24479.1	23036.9	21205.8	19370.6	17968.9	17012.8
75°	22198.3	22058.5	21412.4	20792.6	19893.2	18821.7	17503.0	16271.5	14766.5	13283.7	12392.5
77.5°	9471.6	9793.7	10129.9	10178.5	10210.9	9880.8	9676.2	9366.3	8359.6	7901.8	7429.8
80°	1750.1	1563.7	1669.1	1681.2	1750.1	1786.6	1920.2	2276.7	2317.3	2404.4	2511.7
82.5°	621.9	632.0	648.2	654.3	660.3	684.6	775.8	929.7	1069.5	1251.8	1494.9
85°	352.5	358.5	372.7	384.9	393.0	417.3	467.9	559.1	696.8	905.4	1227.5
87.5°	107.4	121.5	129.6	145.8	151.9	156.0	178.3	239.0	307.9	455.8	664.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157968

CATALOG NUMBER: VTS-E12-LED-E1-RW-8030

**CANDELA DISTRIBUTION (continued):**

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7	5993.7
2.5°	5989.6	5987.6	5983.6	5979.5	5981.5	5977.5	5965.3	5961.3	5947.1	5937.0	5928.9
5°	6044.3	6042.3	6034.2	6036.2	6034.2	6013.9	5999.8	5975.5	5961.3	5939.0	5930.9
7.5°	6157.8	6155.7	6141.6	6147.6	6143.6	6113.2	6088.9	6050.4	6030.1	6001.8	5979.5
10°	6327.9	6327.9	6311.7	6313.7	6313.7	6273.2	6230.7	6165.9	6119.3	6074.7	6036.2
12.5°	6534.5	6526.4	6524.4	6514.3	6506.2	6461.6	6396.8	6309.7	6222.6	6149.7	6097.0
15°	6743.1	6731.0	6724.9	6712.8	6702.6	6662.1	6575.0	6467.7	6350.2	6232.7	6145.6
17.5°	6878.9	6870.8	6858.6	6854.6	6840.4	6799.9	6739.1	6631.7	6485.9	6321.8	6190.2
20°	6929.5	6915.3	6907.2	6899.1	6891.0	6862.7	6862.7	6793.8	6631.7	6400.8	6200.3
22.5°	6897.1	6889.0	6876.8	6870.8	6862.7	6866.7	6945.7	6935.6	6749.2	6419.1	6127.4
25°	6822.1	6812.0	6801.9	6801.9	6799.9	6842.4	7032.8	7059.1	6783.7	6329.9	5967.4
27.5°	6745.2	6731.0	6735.0	6737.1	6747.2	6838.4	7128.0	7091.5	6690.5	6115.2	5691.9
30°	6698.6	6698.6	6708.7	6724.9	6745.2	6905.2	7203.0	7018.6	6449.4	5791.1	5327.3
32.5°	6718.8	6739.1	6761.4	6801.9	6832.3	7053.1	7229.3	6830.2	6099.0	5390.1	4946.5
35°	6899.1	6923.4	6966.0	7028.8	7065.2	7265.7	7229.3	6554.8	5691.9	5045.7	4553.5
37.5°	7292.1	7316.4	7367.0	7415.6	7452.1	7533.1	7198.9	6204.3	5351.6	4689.2	4201.0
40°	7924.1	7958.5	7995.0	7986.9	7962.5	7883.6	7138.1	5878.2	5037.6	4377.3	3854.7
42.5°	8813.3	8780.9	8776.8	8697.8	8616.8	8278.5	7093.6	5665.5	4768.2	4049.1	3510.3
45°	9840.3	9708.6	9572.9	9467.6	9344.0	8712.0	7081.4	5493.4	4470.5	3684.5	3135.6
47.5°	10873.3	10662.6	10399.3	10235.2	10034.7	9173.8	7117.9	5262.5	4087.6	3287.5	2785.2
50°	11886.1	11541.7	11215.6	11019.1	10792.3	9704.5	7176.6	4873.5	3629.8	2927.0	2465.1
52.5°	12823.9	12380.3	12046.1	11815.2	11537.7	10322.3	7124.0	4363.1	3232.8	2580.6	2161.3
55°	13715.2	13225.0	12878.6	12635.6	12309.4	10942.2	6743.1	3899.2	2854.0	2242.3	1819.0
57.5°	14495.0	14025.1	13664.6	13334.4	13058.9	11481.0	5991.7	3516.4	2489.4	1855.4	1448.3
60°	15406.5	14877.9	14450.5	14098.0	13773.9	11758.5	5149.0	3176.1	2100.5	1436.1	1047.2
62.5°	16636.1	16028.4	15534.2	15131.1	14707.7	11819.2	4573.8	2835.8	1667.1	1039.1	761.6
65°	18459.1	17709.6	17091.8	16536.8	15963.6	11568.1	4290.2	2465.1	1239.7	771.7	638.1
67.5°	19907.4	19129.6	18414.5	17701.5	16968.3	11102.2	4227.4	2122.8	952.0	656.3	573.2
69°	19731.2	18989.8	18333.5	17561.8	16749.5	10516.8	4164.6	1991.1	869.0	609.7	542.9
70°	19052.6	18349.7	17683.3	17055.4	16060.8	9864.6	3998.5	1918.2	836.6	587.4	520.6
72.5°	16099.3	15285.0	14638.9	13857.0	12809.8	7330.6	3032.3	1551.6	767.7	536.8	469.9
75°	11742.3	11067.8	10423.6	9558.7	8539.8	4241.6	1887.8	887.2	563.1	486.1	425.4
77.5°	6856.6	6704.7	6082.8	5513.6	4504.9	2159.3	1083.7	530.7	437.5	441.6	374.7
80°	2580.6	2748.7	2811.5	2615.0	2416.5	1490.8	787.9	431.4	380.8	435.5	318.0
82.5°	1881.8	2183.6	2220.0	2126.9	1979.0	1389.5	630.0	346.4	309.9	467.9	273.5
85°	1569.8	1737.9	1764.3	1667.1	1618.4	1176.9	439.6	243.1	226.9	336.2	204.6
87.5°	794.0	836.6	858.8	777.8	781.9	548.9	176.2	103.3	123.6	143.8	113.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P157968

CATALOG NUMBER: VTS-E12-LED-E1-RW-8030

**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	5993.7	5993.7
2.5°	5910.6	5922.8
5°	5918.7	5918.7
7.5°	5965.3	5965.3
10°	6016.0	6018.0
12.5°	6062.6	6060.5
15°	6099.0	6092.9
17.5°	6121.3	6115.2
20°	6099.0	6088.9
22.5°	5985.6	5957.2
25°	5779.0	5742.5
27.5°	5505.5	5481.2
30°	5149.0	5112.6
32.5°	4731.8	4713.5
35°	4332.7	4310.4
37.5°	3968.1	3962.0
40°	3660.2	3627.8
42.5°	3299.7	3285.5
45°	2933.0	2924.9
47.5°	2588.7	2580.6
50°	2270.7	2254.5
52.5°	1958.7	1932.4
55°	1612.4	1594.1
57.5°	1237.6	1221.4
60°	871.0	852.8
62.5°	619.8	599.6
65°	516.5	500.3
67.5°	467.9	449.7
69°	445.6	429.4
70°	431.4	419.3
72.5°	401.1	393.0
75°	366.6	360.6
77.5°	322.1	311.9
80°	269.4	259.3
82.5°	226.9	216.7
85°	151.9	137.7
87.5°	68.9	60.8
90°	0.0	0.0

(END OF REPORT)