

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: P157966

Luminaire Tested: **VTS-F11-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157966
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-F11-LED-E1-RW-7050
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (77) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29028.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

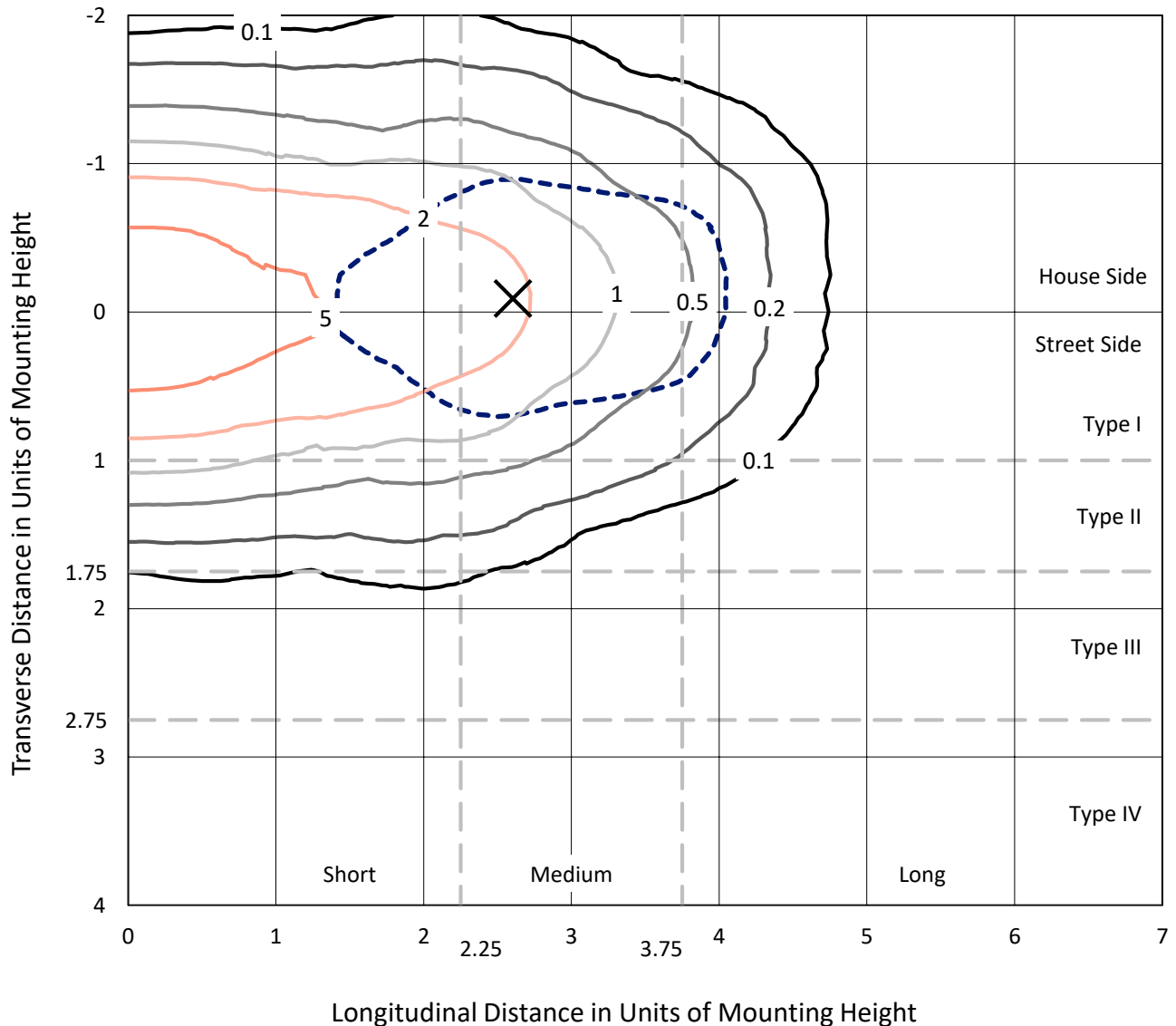
Input Watts (W): 282.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

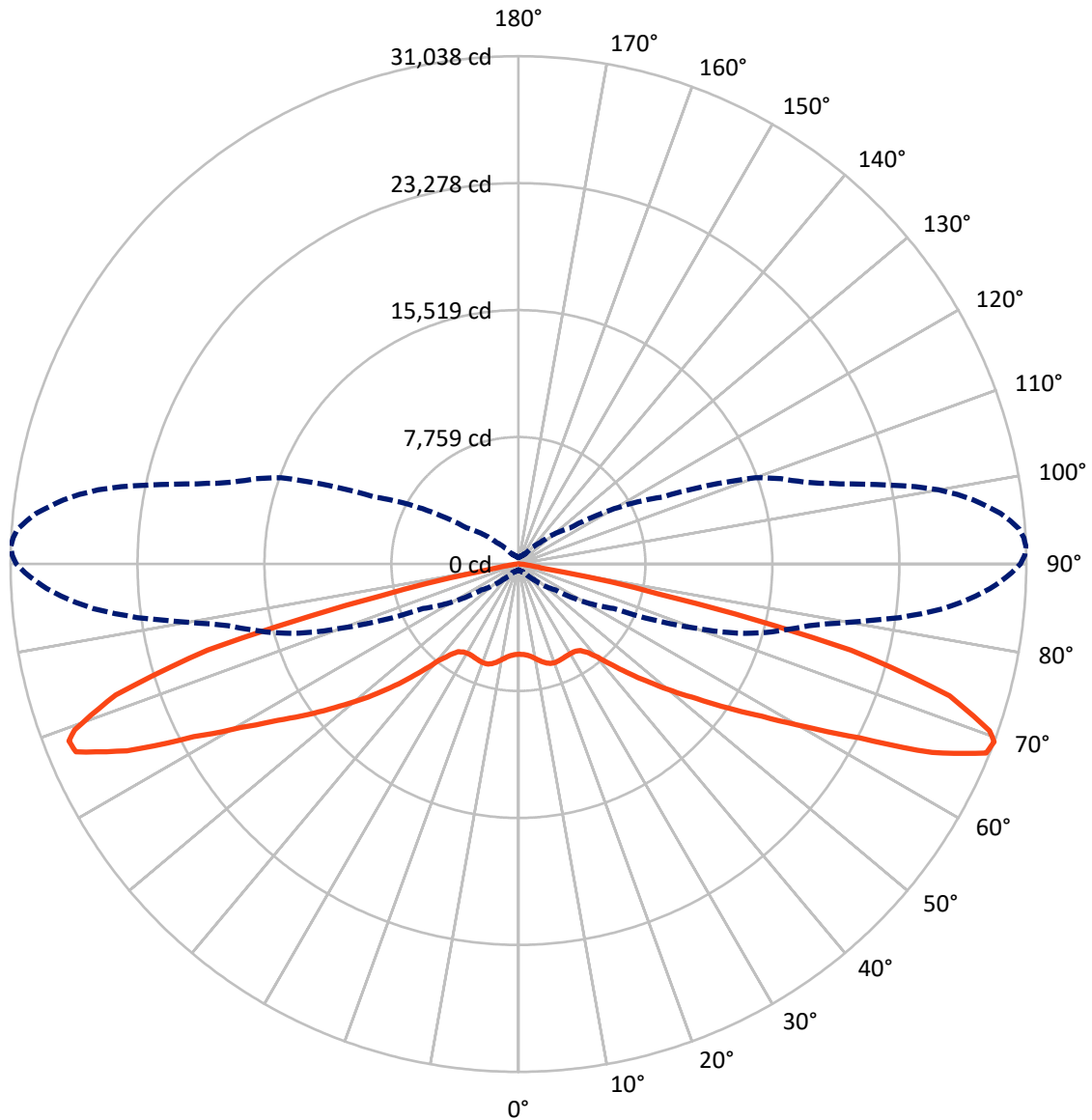
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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
House Side	Lumens	15395.6	0.0	15395.6
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	13633.4	0.0	13633.4
	% Fixture	47.0	0.0	47.0
Total	Lumens	29028.9	0.0	29028.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	1.9
10°-20°	1704.5	5.9
20°-30°	2765.4	9.5
30°-40°	3446.5	11.9
40°-50°	4291.2	14.8
50°-60°	5292.2	18.2
60°-70°	6572.5	22.6
70°-80°	4038.4	13.9
80°-90°	378.5	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°	29028.9	100.0
0°-180°	29028.9	100.0



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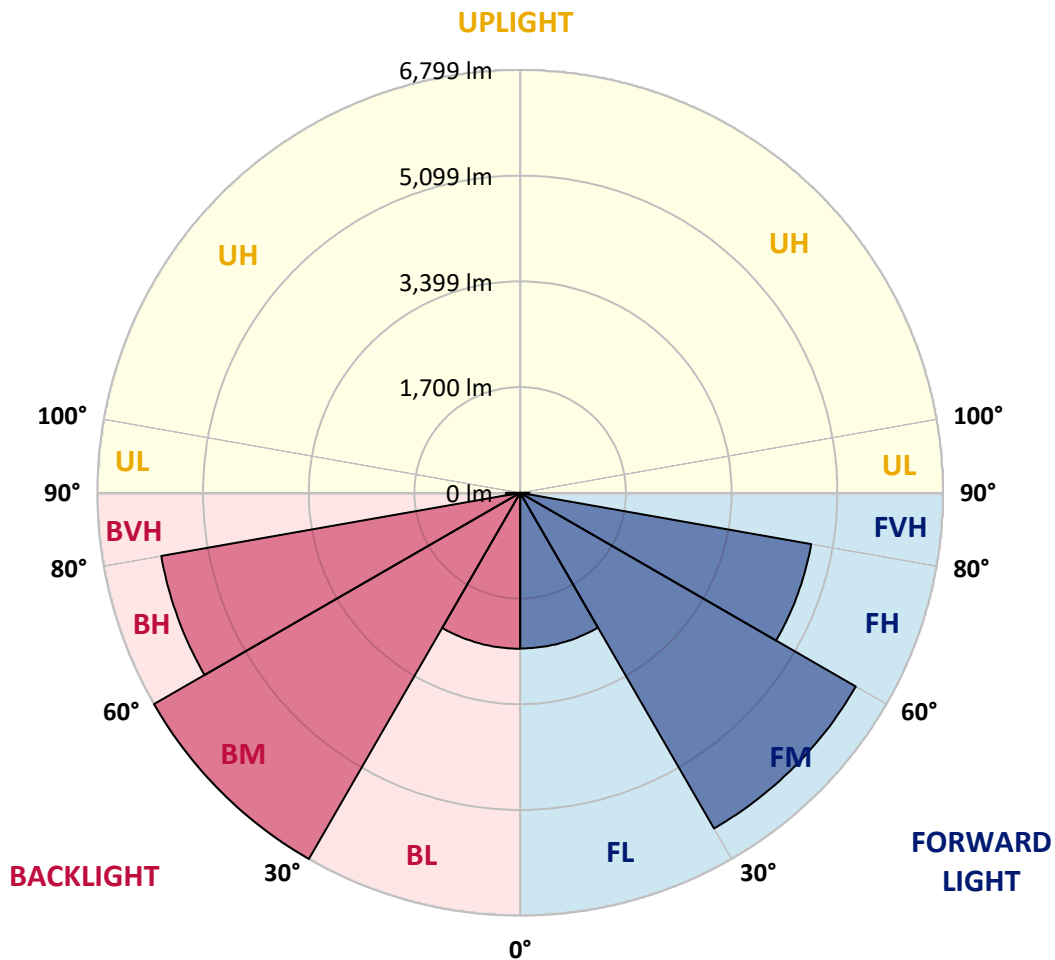
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2502.1	8.6			
FM	(30°-60°)	6231.4	21.5			
FH	(60°-80°)	4751.7	16.4			G2/5000
FVH	(80°-90°)	148.2	0.5			G2/225
BL	(0°-30°)	2507.4	8.6	B4/5000		
BM	(30°-60°)	6798.5	23.4	B4/8500		
BH	(60°-80°)	5859.3	20.2	B5		G5
BVH	(80°-90°)	230.3	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°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5601.9	5587.0	5600.0	5601.9	5600.0	5600.0	5583.2	5579.5	5557.2	5562.7	5560.9
5°	5678.3	5672.7	5682.0	5685.7	5689.5	5682.0	5669.0	5663.4	5648.5	5642.9	5641.0
7.5°	5749.1	5739.8	5754.7	5767.7	5777.1	5778.9	5780.8	5771.5	5771.5	5764.0	5764.0
10°	5808.7	5801.3	5825.5	5842.3	5872.1	5888.9	5907.5	5920.6	5928.0	5929.9	5928.0
12.5°	5834.8	5829.2	5868.4	5918.7	5974.6	6013.7	6060.3	6093.9	6103.2	6101.3	6110.6
15°	5790.1	5793.8	5853.5	5952.2	6071.5	6170.3	6235.5	6263.4	6270.9	6274.6	6276.5
17.5°	5669.0	5676.4	5762.1	5922.4	6131.1	6310.0	6406.9	6406.9	6392.0	6392.0	6390.2
20°	5475.2	5482.6	5594.4	5825.5	6133.0	6406.9	6544.8	6516.9	6461.0	6449.8	6438.6
22.5°	5206.8	5236.6	5359.6	5628.0	6052.9	6434.9	6630.6	6589.6	6502.0	6477.8	6461.0
25°	4903.0	4899.3	5046.5	5348.4	5859.1	6367.8	6654.8	6647.3	6554.2	6528.1	6498.3
27.5°	4556.4	4567.6	4703.6	5009.3	5562.7	6174.0	6613.8	6712.6	6636.2	6610.1	6582.1
30°	4200.5	4211.7	4340.2	4696.2	5225.4	5896.3	6529.9	6775.9	6746.1	6725.6	6707.0
32.5°	3842.7	3846.4	3999.2	4381.2	4940.3	5564.6	6403.2	6833.7	6874.7	6865.4	6857.9
35°	3507.2	3511.0	3676.8	4064.4	4658.9	5281.3	6250.4	6917.6	7049.9	7061.1	7068.5
37.5°	3181.1	3186.7	3356.3	3762.5	4381.2	5067.0	6080.8	7046.1	7295.9	7336.9	7344.3
40°	2856.8	2862.4	3024.6	3455.1	4099.8	4878.8	5950.4	7226.9	7627.6	7683.5	7741.3
42.5°	2547.5	2568.0	2705.9	3117.7	3786.8	4645.9	5894.5	7446.8	8020.8	8108.4	8173.6
45°	2258.6	2260.5	2417.0	2802.8	3415.9	4330.9	5857.2	7696.5	8460.6	8592.9	8682.4
47.5°	1949.3	1971.7	2135.6	2510.2	3069.3	3941.4	5737.9	7989.1	8939.5	9094.2	9275.0
50°	1649.3	1680.9	1839.3	2210.2	2752.5	3538.9	5417.4	8332.0	9478.1	9679.4	9888.1
52.5°	1360.4	1358.5	1526.3	1912.0	2433.8	3197.9	4897.5	8691.7	10100.5	10316.7	10542.2
55°	1028.7	1028.7	1194.5	1546.8	2089.1	2894.1	4340.2	8915.3	10678.2	10939.1	11185.1
57.5°	706.3	724.9	881.5	1185.2	1729.4	2616.4	3913.5	8786.7	11119.9	11444.2	11736.7
60°	523.7	542.3	657.8	851.6	1352.9	2288.5	3593.0	8181.1	11386.4	11816.9	12197.0
62.5°	452.8	465.9	575.8	682.1	974.6	1940.0	3309.7	7411.4	11770.3	12359.2	12888.4
65°	404.4	417.4	527.4	588.9	762.2	1559.8	3151.3	6971.6	12228.7	13128.8	13896.6
67.5°	374.6	389.5	482.7	527.4	665.3	1410.7	3028.3	6869.1	12225.0	13317.0	14297.3
69°	359.7	370.8	447.3	495.7	642.9	1366.0	2761.8	6423.7	11418.1	12590.3	13574.2
70°	350.4	361.5	426.8	475.2	635.5	1285.9	2515.8	5834.8	10499.3	11679.0	12677.8
72.5°	320.5	331.7	380.2	424.9	529.3	859.1	1753.6	3734.6	7502.7	8345.1	9487.4
75°	283.3	296.3	333.6	370.8	400.7	497.6	1011.9	1938.1	4289.9	4929.1	5946.6
77.5°	231.1	244.1	283.3	342.9	339.2	378.3	657.8	1190.8	2008.9	2491.6	2868.0
80°	190.1	199.4	232.9	346.6	277.7	316.8	533.0	976.5	1414.4	1563.5	1653.0
82.5°	126.7	139.8	180.8	272.1	212.4	225.5	398.8	913.1	1196.4	1312.0	1420.0
85°	59.6	65.2	110.0	145.4	128.6	121.1	227.4	644.8	890.8	944.8	985.8
87.5°	0.0	0.0	5.6	11.2	16.8	16.8	41.0	136.0	249.7	301.9	298.2
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5553.4	5555.3	5553.4	5553.4	5551.6	5547.8	5547.8	5544.1	5546.0	5544.1	5547.8
5°	5639.2	5639.2	5633.6	5629.8	5635.4	5629.8	5631.7	5622.4	5622.4	5616.8	5609.3
7.5°	5762.1	5762.1	5764.0	5752.8	5760.3	5762.1	5756.6	5752.8	5749.1	5739.8	5741.6
10°	5926.1	5926.1	5931.7	5916.8	5924.3	5928.0	5929.9	5929.9	5926.1	5909.4	5911.2
12.5°	6108.8	6105.0	6106.9	6099.5	6106.9	6110.6	6114.4	6110.6	6110.6	6106.9	6105.0
15°	6274.6	6272.8	6276.5	6270.9	6272.8	6276.5	6287.7	6285.8	6283.9	6272.8	6272.8
17.5°	6388.3	6382.7	6379.0	6377.1	6377.1	6375.3	6377.1	6377.1	6371.5	6369.7	6369.7
20°	6431.2	6416.3	6406.9	6401.4	6393.9	6390.2	6386.4	6388.3	6384.6	6379.0	6380.9
22.5°	6438.6	6418.1	6399.5	6382.7	6367.8	6358.5	6349.2	6345.4	6336.1	6330.5	6330.5
25°	6474.0	6442.3	6412.5	6384.6	6362.2	6341.7	6321.2	6306.3	6295.1	6282.1	6278.4
27.5°	6552.3	6518.8	6483.3	6447.9	6418.1	6377.1	6349.2	6319.4	6293.3	6272.8	6257.9
30°	6673.4	6639.9	6604.5	6563.5	6524.3	6481.5	6434.9	6399.5	6362.2	6321.2	6298.9
32.5°	6833.7	6811.3	6775.9	6736.8	6701.4	6656.7	6600.8	6546.7	6511.3	6462.8	6427.4
35°	7062.9	7036.8	7025.6	7008.9	6973.5	6945.5	6884.0	6833.7	6800.2	6733.1	6707.0
37.5°	7376.0	7374.1	7383.4	7377.9	7383.4	7348.0	7320.1	7318.2	7269.8	7204.5	7141.2
40°	7802.8	7825.1	7875.4	7910.8	7944.4	7948.1	7987.2	7946.2	7951.8	7942.5	7877.3
42.5°	8289.1	8365.5	8425.2	8529.5	8609.7	8684.2	8734.5	8803.5	8855.7	8902.3	8913.4
45°	8831.4	8945.1	9083.0	9176.2	9332.7	9457.6	9629.0	9761.4	9899.3	10035.3	10083.8
47.5°	9420.3	9562.0	9714.8	9888.1	10085.6	10281.3	10545.9	10749.1	10970.8	11155.3	11319.3
50°	10070.7	10217.9	10422.9	10622.3	10894.4	11119.9	11466.5	11733.0	12090.8	12336.8	12549.3
52.5°	10749.1	10933.5	11162.8	11382.7	11660.3	11949.2	12334.9	12728.2	13158.6	13531.4	13840.7
55°	11412.5	11639.8	11859.7	12116.9	12424.4	12759.8	13195.9	13714.0	14250.7	14677.4	15087.4
57.5°	12003.2	12266.0	12525.0	12785.9	13100.9	13490.4	13980.5	14539.5	15154.5	15722.9	16285.7
60°	12551.1	12866.1	13182.9	13509.0	13870.5	14351.3	14940.2	15627.9	16423.6	17200.7	17936.8
62.5°	13417.7	13831.4	14224.6	14645.8	15081.8	15646.5	16341.6	17243.6	18156.7	19127.6	19882.4
65°	14591.7	15173.2	15687.5	16233.5	16798.2	17552.9	18384.1	19463.1	20771.3	21766.5	22977.8
67.5°	15175.0	15940.9	16602.5	17210.0	17908.9	18671.1	19658.8	20935.3	22331.1	23773.5	25124.6
69°	14489.2	15279.4	16011.8	16692.0	17398.3	18138.1	19170.5	20480.6	21956.5	23516.3	24835.7
70°	13600.3	14390.5	15171.3	15946.5	16591.3	17312.5	18348.7	19699.8	21173.8	22795.1	24103.4
72.5°	10419.2	11369.6	12075.9	12802.7	13550.0	14161.2	15357.7	16496.3	18031.9	19677.4	21117.9
75°	6666.0	7540.0	8311.5	8930.2	9660.7	10393.1	11276.4	12541.8	13503.4	14854.5	16022.9
77.5°	3425.2	3684.3	4427.8	4649.6	5156.5	5555.3	6041.7	6358.5	7141.2	7307.0	7996.6
80°	1623.2	1462.9	1377.2	1298.9	1321.3	1312.0	1272.8	1220.6	1285.9	1257.9	1246.7
82.5°	1414.4	1261.6	1006.3	855.4	739.8	628.0	540.4	495.7	501.3	516.2	521.8
85°	991.4	931.8	726.8	551.6	430.5	333.6	268.4	257.2	264.6	285.1	277.7
87.5°	287.0	300.0	264.6	184.5	128.6	93.2	72.7	82.0	78.3	76.4	80.1
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°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5547.8	5546.0	5540.4	5534.8	5534.8	5531.1	5534.8	5536.7	5534.8	5534.8	5531.1
5°	5611.2	5613.1	5618.7	5607.5	5605.6	5607.5	5600.0	5598.2	5592.6	5598.2	5590.7
7.5°	5732.3	5737.9	5737.9	5730.5	5728.6	5734.2	5723.0	5719.3	5713.7	5711.8	5710.0
10°	5913.1	5918.7	5909.4	5903.8	5898.2	5905.6	5896.3	5896.3	5890.7	5885.1	5883.3
12.5°	6114.4	6110.6	6106.9	6110.6	6105.0	6105.0	6099.5	6095.7	6093.9	6092.0	6088.3
15°	6270.9	6283.9	6283.9	6287.7	6283.9	6283.9	6276.5	6278.4	6274.6	6272.8	6274.6
17.5°	6371.5	6375.3	6384.6	6390.2	6390.2	6392.0	6388.3	6392.0	6388.3	6388.3	6395.8
20°	6384.6	6388.3	6397.6	6406.9	6412.5	6416.3	6416.3	6421.8	6425.6	6429.3	6438.6
22.5°	6332.4	6338.0	6349.2	6365.9	6375.3	6379.0	6386.4	6395.8	6405.1	6412.5	6425.6
25°	6278.4	6280.2	6291.4	6308.2	6319.4	6328.7	6341.7	6352.9	6365.9	6380.9	6395.8
27.5°	6248.5	6246.7	6256.0	6272.8	6282.1	6295.1	6306.3	6323.1	6338.0	6356.6	6369.7
30°	6274.6	6259.7	6261.6	6269.0	6276.5	6285.8	6298.9	6313.8	6330.5	6347.3	6362.2
32.5°	6390.2	6356.6	6334.3	6328.7	6330.5	6332.4	6339.9	6349.2	6362.2	6375.3	6380.9
35°	6639.9	6582.1	6552.3	6528.1	6507.6	6490.8	6494.5	6492.7	6492.7	6503.8	6490.8
37.5°	7115.1	7042.4	7010.7	6967.9	6943.6	6882.2	6865.4	6861.7	6837.4	6837.4	6809.5
40°	7860.5	7817.7	7793.4	7754.3	7636.9	7651.8	7567.9	7569.8	7500.9	7508.3	7459.9
42.5°	8920.9	8926.5	8896.7	8870.6	8779.3	8738.3	8660.0	8548.2	8460.6	8458.7	8361.8
45°	10147.1	10214.2	10119.2	10152.7	10072.6	9962.6	9871.3	9727.8	9591.8	9548.9	9450.1
47.5°	11429.3	11539.2	11466.5	11479.6	11440.4	11283.9	11160.9	10983.9	10806.8	10687.6	10627.9
50°	12799.0	12871.7	12869.8	12834.4	12815.7	12662.9	12465.4	12331.2	12200.8	12040.5	11988.3
52.5°	14040.1	14209.7	14323.4	14297.3	14243.2	14151.9	13976.7	13861.2	13669.3	13646.9	13669.3
55°	15368.8	15588.7	15704.3	15844.0	15845.9	15829.1	15756.5	15713.6	15534.7	15555.2	15529.1
57.5°	16626.7	16949.1	17126.2	17424.3	17526.8	17662.9	17612.6	17668.5	17560.4	17631.2	17610.7
60°	18331.9	18779.2	19073.6	19481.7	19671.8	20012.8	20079.9	20120.9	20180.6	20325.9	20243.9
62.5°	20476.9	21132.8	21744.1	22299.4	22482.1	22994.5	23078.4	23398.9	23415.7	23514.5	23333.7
65°	23987.8	24787.3	25460.0	26125.3	26509.2	27109.3	27351.6	27974.0	27783.9	27864.0	27478.3
67.5°	26287.5	27217.4	28119.4	28749.2	29386.6	29999.7	30441.4	30843.9	30840.2	30761.9	30419.0
69°	26084.3	27120.5	28009.4	28853.6	29524.5	30154.4	30685.5	30946.4	31037.7	30924.0	30679.9
70°	25381.8	26445.9	27534.2	28229.3	28959.8	29651.2	30199.1	30484.2	30547.6	30467.4	30256.9
72.5°	22135.4	23156.7	24356.8	24988.6	25871.9	26371.3	27126.1	27495.1	27560.3	27457.8	27319.9
75°	17275.3	17459.8	18682.3	19084.8	19725.8	20301.7	20771.3	20652.0	20985.6	20920.4	20868.2
77.5°	8138.2	7646.2	8438.2	8807.2	8613.4	8097.2	8848.2	8305.9	8665.6	9133.3	9014.1
80°	1341.8	1338.0	1373.4	1451.7	1358.5	1442.4	1440.5	1399.5	1403.3	1503.9	1451.7
82.5°	516.2	527.4	533.0	547.9	547.9	549.8	559.1	570.3	560.9	579.6	575.8
85°	279.5	298.2	281.4	268.4	277.7	283.3	290.7	300.0	290.7	318.7	303.8
87.5°	72.7	76.4	67.1	67.1	65.2	59.6	59.6	63.4	69.0	82.0	89.5
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°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5523.6	5525.5	5527.3	5521.7	5518.0	5518.0	5516.2	5512.4	5510.6	5510.6	5510.6
5°	5587.0	5590.7	5581.4	5579.5	5575.8	5572.1	5572.1	5568.3	5570.2	5570.2	5560.9
7.5°	5713.7	5708.1	5696.9	5689.5	5696.9	5683.9	5678.3	5682.0	5678.3	5680.2	5676.4
10°	5883.3	5883.3	5870.2	5877.7	5868.4	5853.5	5859.1	5853.5	5849.7	5836.7	5844.1
12.5°	6093.9	6088.3	6080.8	6064.0	6058.5	6056.6	6039.8	6041.7	6036.1	6032.4	6026.8
15°	6278.4	6276.5	6259.7	6250.4	6248.5	6241.1	6233.6	6229.9	6220.6	6218.7	6215.0
17.5°	6401.4	6395.8	6388.3	6379.0	6379.0	6367.8	6364.1	6354.8	6352.9	6347.3	6341.7
20°	6442.3	6444.2	6436.8	6429.3	6425.6	6418.1	6412.5	6405.1	6401.4	6393.9	6388.3
22.5°	6433.0	6433.0	6425.6	6423.7	6416.3	6405.1	6397.6	6388.3	6379.0	6369.7	6358.5
25°	6403.2	6401.4	6395.8	6386.4	6377.1	6360.4	6345.4	6330.5	6317.5	6306.3	6289.5
27.5°	6377.1	6373.4	6362.2	6349.2	6330.5	6311.9	6283.9	6263.4	6246.7	6231.8	6213.1
30°	6367.8	6354.8	6338.0	6317.5	6295.1	6267.2	6237.4	6211.3	6192.6	6177.7	6170.3
32.5°	6379.0	6362.2	6336.1	6310.0	6282.1	6248.5	6218.7	6196.4	6179.6	6175.9	6175.9
35°	6481.5	6453.5	6418.1	6380.9	6345.4	6317.5	6297.0	6295.1	6283.9	6297.0	6317.5
37.5°	6781.5	6757.3	6703.2	6654.8	6630.6	6617.5	6598.9	6602.6	6576.5	6617.5	6651.1
40°	7418.9	7389.0	7325.7	7286.5	7238.1	7191.5	7228.8	7217.6	7236.2	7228.8	7264.2
42.5°	8348.8	8319.0	8218.3	8203.4	8182.9	8164.3	8164.3	8149.4	8141.9	8168.0	8138.2
45°	9480.0	9420.3	9383.1	9427.8	9366.3	9384.9	9450.1	9362.6	9383.1	9261.9	9150.1
47.5°	10654.0	10648.4	10639.1	10693.1	10702.5	10730.4	10765.8	10676.4	10514.2	10422.9	10195.6
50°	12005.1	12062.9	12085.2	12137.4	12159.8	12180.3	12124.4	11992.0	11718.1	11475.8	11207.5
52.5°	13646.9	13546.3	13684.2	13734.5	13712.1	13630.1	13428.9	13266.7	12888.4	12539.9	12124.4
55°	15558.9	15583.1	15486.2	15447.1	15370.7	15143.3	14865.7	14500.4	14021.5	13566.8	13041.2
57.5°	17506.3	17497.0	17346.1	17133.6	16874.6	16600.6	16186.9	15663.3	15104.2	14493.0	13857.5
60°	19874.9	19865.6	19560.0	19196.6	18827.6	18385.9	17737.4	17107.5	16358.4	15555.2	14798.6
62.5°	22987.1	22586.4	22286.4	21744.1	21173.8	20596.1	19718.4	18881.7	17880.9	16867.1	15983.8
65°	26975.1	26315.4	25974.4	25188.0	24304.6	23402.7	22510.0	21410.5	20063.2	18836.9	17757.9
67.5°	29925.1	29321.4	28697.1	27912.5	26943.4	25937.1	24714.6	23330.0	21800.0	20424.7	19248.8
69°	30184.2	29619.5	28870.4	28083.9	27167.1	26073.2	24738.8	23188.4	21637.9	20245.8	19088.5
70°	29791.0	29190.9	28402.6	27584.5	26559.5	25527.1	24129.5	22513.7	20961.4	19565.6	18436.3
72.5°	26857.7	26272.6	25434.0	24455.6	23404.5	22521.2	21194.3	19509.7	17821.3	16531.7	15652.1
75°	20422.8	20294.2	19699.8	19129.5	18302.1	17316.3	16103.1	14970.0	13585.4	12221.3	11401.3
77.5°	8714.0	9010.3	9319.7	9364.4	9394.2	9090.5	8902.3	8617.1	7690.9	7269.8	6835.6
80°	1610.1	1438.7	1535.6	1546.8	1610.1	1643.7	1766.7	2094.6	2131.9	2212.1	2310.8
82.5°	572.1	581.4	596.3	601.9	607.5	629.9	713.7	855.4	984.0	1151.7	1375.3
85°	324.3	329.9	342.9	354.1	361.5	383.9	430.5	514.3	641.1	833.0	1129.3
87.5°	98.8	111.8	119.3	134.2	139.8	143.5	164.0	219.9	283.3	419.3	611.2
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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CATALOG NUMBER: VTS-F11-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3	5514.3
2.5°	5510.6	5508.7	5505.0	5501.2	5503.1	5499.4	5488.2	5484.5	5471.4	5462.1	5454.7
5°	5560.9	5559.0	5551.6	5553.4	5551.6	5532.9	5519.9	5497.5	5484.5	5464.0	5456.5
7.5°	5665.2	5663.4	5650.3	5655.9	5652.2	5624.2	5601.9	5566.5	5547.8	5521.7	5501.2
10°	5821.8	5821.8	5806.9	5808.7	5808.7	5771.5	5732.3	5672.7	5629.8	5588.8	5553.4
12.5°	6011.9	6004.4	6002.5	5993.2	5985.8	5944.8	5885.1	5805.0	5724.9	5657.8	5609.3
15°	6203.8	6192.6	6187.0	6175.9	6166.5	6129.3	6049.1	5950.4	5842.3	5734.2	5654.1
17.5°	6328.7	6321.2	6310.0	6306.3	6293.3	6256.0	6200.1	6101.3	5967.1	5816.2	5695.1
20°	6375.3	6362.2	6354.8	6347.3	6339.9	6313.8	6313.8	6250.4	6101.3	5888.9	5704.4
22.5°	6345.4	6338.0	6326.8	6321.2	6313.8	6317.5	6390.2	6380.9	6209.4	5905.6	5637.3
25°	6276.5	6267.2	6257.9	6257.9	6256.0	6295.1	6470.3	6494.5	6241.1	5823.6	5490.1
27.5°	6205.7	6192.6	6196.4	6198.2	6207.5	6291.4	6557.9	6524.3	6155.4	5626.1	5236.6
30°	6162.8	6162.8	6172.1	6187.0	6205.7	6352.9	6626.8	6457.3	5933.6	5327.9	4901.2
32.5°	6181.4	6200.1	6220.6	6257.9	6285.8	6488.9	6651.1	6283.9	5611.2	4959.0	4550.8
35°	6347.3	6369.7	6408.8	6466.6	6500.1	6684.6	6651.1	6030.5	5236.6	4642.1	4189.3
37.5°	6708.8	6731.2	6777.8	6822.5	6856.1	6930.6	6623.1	5708.1	4923.5	4314.2	3865.0
40°	7290.3	7322.0	7355.5	7348.0	7325.7	7253.0	6567.2	5408.1	4634.7	4027.2	3546.4
42.5°	8108.4	8078.6	8074.8	8002.2	7927.6	7616.4	6526.2	5212.4	4386.8	3725.3	3229.6
45°	9053.2	8932.1	8807.2	8710.3	8596.6	8015.2	6515.0	5054.0	4112.9	3389.8	2884.8
47.5°	10003.6	9809.8	9567.5	9416.6	9232.1	8440.1	6548.6	4841.5	3760.7	3024.6	2562.4
50°	10935.4	10618.6	10318.6	10137.8	9929.1	8928.3	6602.6	4483.7	3339.5	2692.9	2268.0
52.5°	11798.2	11390.1	11082.6	10870.2	10614.9	9496.7	6554.2	4014.1	2974.3	2374.2	1988.4
55°	12618.2	12167.2	11848.6	11624.9	11324.9	10067.0	6203.8	3587.4	2625.8	2063.0	1673.5
57.5°	13335.7	12903.3	12571.6	12267.9	12014.4	10562.7	5512.4	3235.2	2290.3	1707.0	1332.4
60°	14174.3	13687.9	13294.7	12970.4	12672.3	10818.0	4737.2	2922.1	1932.5	1321.3	963.5
62.5°	15305.5	14746.4	14291.7	13920.8	13531.4	10873.9	4207.9	2609.0	1533.7	956.0	700.7
65°	16982.7	16293.2	15724.8	15214.2	14686.8	10642.8	3947.0	2268.0	1140.5	710.0	587.0
67.5°	18315.1	17599.5	16941.7	16285.7	15611.1	10214.2	3889.3	1953.0	875.9	603.8	527.4
69°	18153.0	17470.9	16867.1	16157.1	15409.8	9675.6	3831.5	1831.9	799.5	560.9	499.4
70°	17528.7	16882.0	16268.9	15691.2	14776.2	9075.6	3678.7	1764.8	769.7	540.4	478.9
72.5°	14811.6	14062.5	13468.0	12748.7	11785.2	6744.2	2789.8	1427.5	706.3	493.8	432.3
75°	10803.1	10182.5	9589.9	8794.2	7856.8	3902.3	1736.8	816.2	518.1	447.3	391.3
77.5°	6308.2	6168.4	5596.3	5072.6	4144.6	1986.6	997.0	488.3	402.5	406.3	344.8
80°	2374.2	2528.9	2586.6	2405.9	2223.2	1371.6	724.9	396.9	350.4	400.7	292.6
82.5°	1731.3	2008.9	2042.5	1956.7	1820.7	1278.4	579.6	318.7	285.1	430.5	251.6
85°	1444.3	1598.9	1623.2	1533.7	1489.0	1082.7	404.4	223.6	208.7	309.4	188.2
87.5°	730.5	769.7	790.2	715.6	719.3	505.0	162.1	95.0	113.7	132.3	104.4
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: P157966

CATALOG NUMBER: VTS-F11-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	5514.3	5514.3
2.5°	5437.9	5449.1
5°	5445.3	5445.3
7.5°	5488.2	5488.2
10°	5534.8	5536.7
12.5°	5577.7	5575.8
15°	5611.2	5605.6
17.5°	5631.7	5626.1
20°	5611.2	5601.9
22.5°	5506.8	5480.7
25°	5316.8	5283.2
27.5°	5065.2	5042.8
30°	4737.2	4703.6
32.5°	4353.3	4336.5
35°	3986.2	3965.7
37.5°	3650.7	3645.1
40°	3367.5	3337.6
42.5°	3035.7	3022.7
45°	2698.4	2691.0
47.5°	2381.6	2374.2
50°	2089.1	2074.1
52.5°	1802.1	1777.8
55°	1483.4	1466.6
57.5°	1138.6	1123.7
60°	801.3	784.6
62.5°	570.3	551.6
65°	475.2	460.3
67.5°	430.5	413.7
69°	410.0	395.1
70°	396.9	385.8
72.5°	369.0	361.5
75°	337.3	331.7
77.5°	296.3	287.0
80°	247.9	238.5
82.5°	208.7	199.4
85°	139.8	126.7
87.5°	63.4	55.9
90°	0.0	0.0

(END OF REPORT)