

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: P157964

Luminaire Tested: **VTS-F11-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157964
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-7030
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (77) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25839 lumens
Efficiency: N/A
Efficacy: 91.4 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

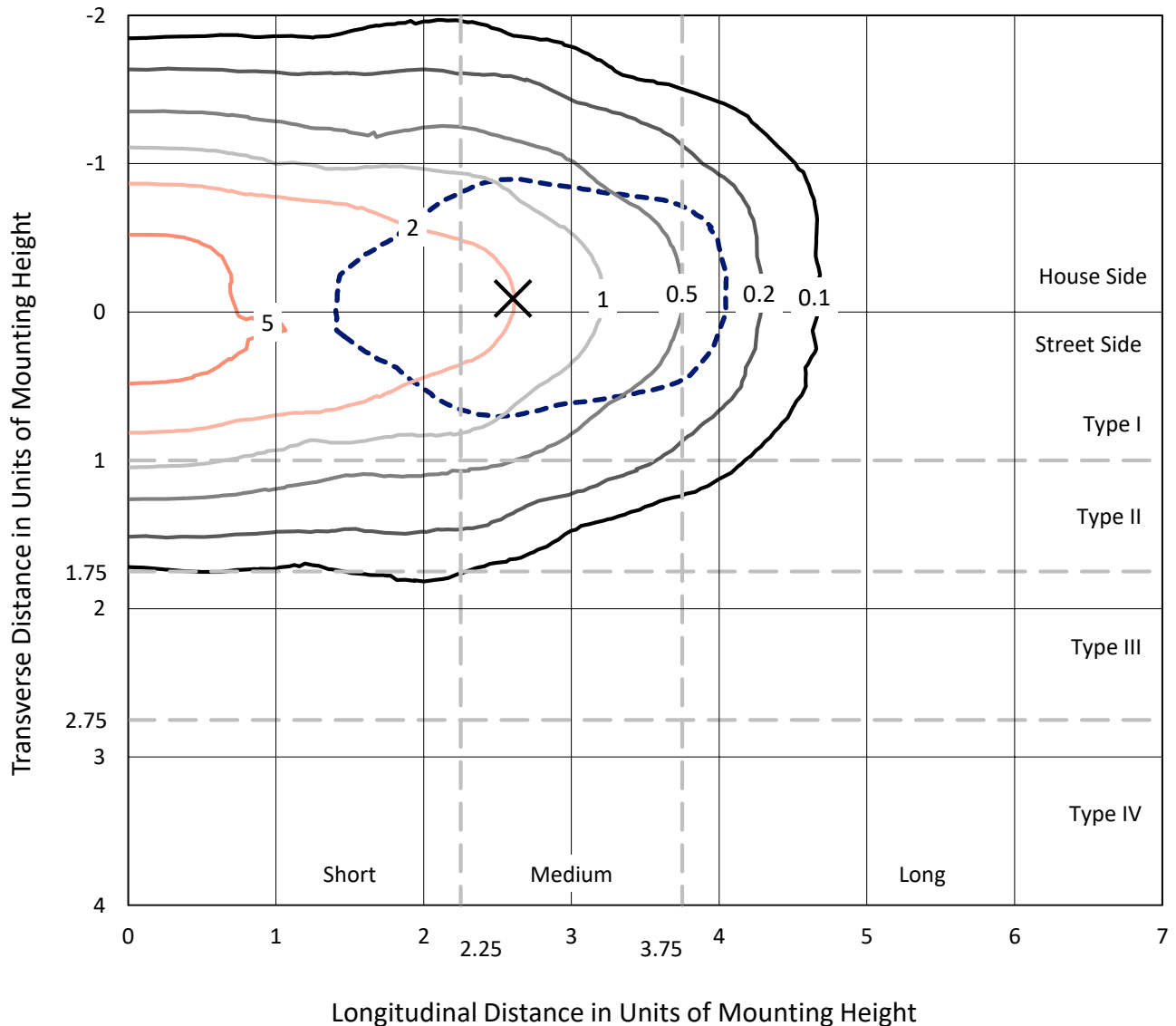
Input Watts (W): 282.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

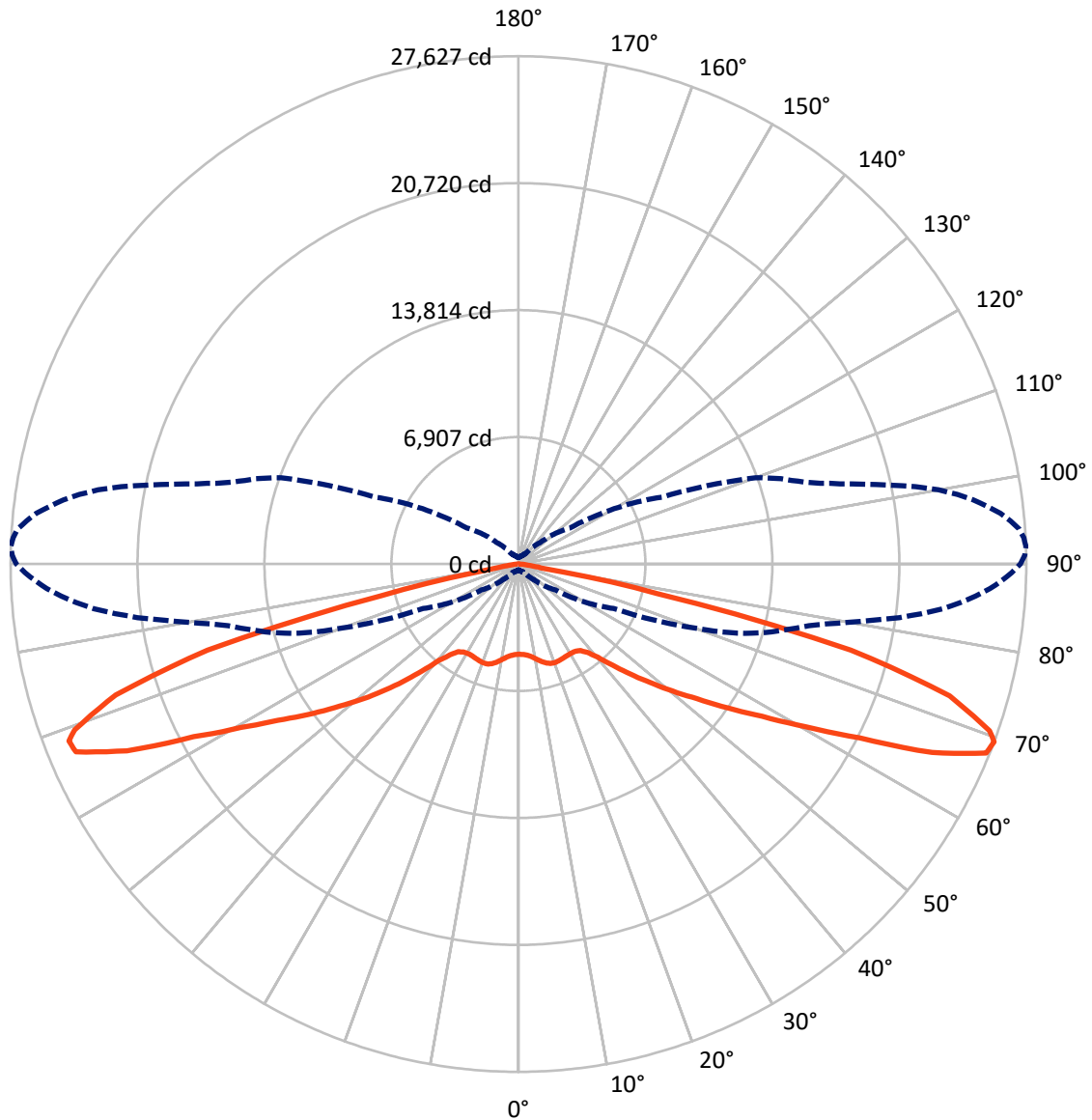


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type I - Short - Full Cutoff

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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	13703.8	0.0	13703.8
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	12135.3	0.0	12135.3
	% Fixture	47.0	0.0	47.0
Total	Lumens	25839.0	0.0	25839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	1.9
10°-20°	1517.2	5.9
20°-30°	2461.6	9.5
30°-40°	3067.8	11.9
40°-50°	3819.7	14.8
50°-60°	4710.6	18.2
60°-70°	5850.3	22.6
70°-80°	3594.7	13.9
80°-90°	336.9	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°	25839.0	100.0
0°-180°	25839.0	100.0



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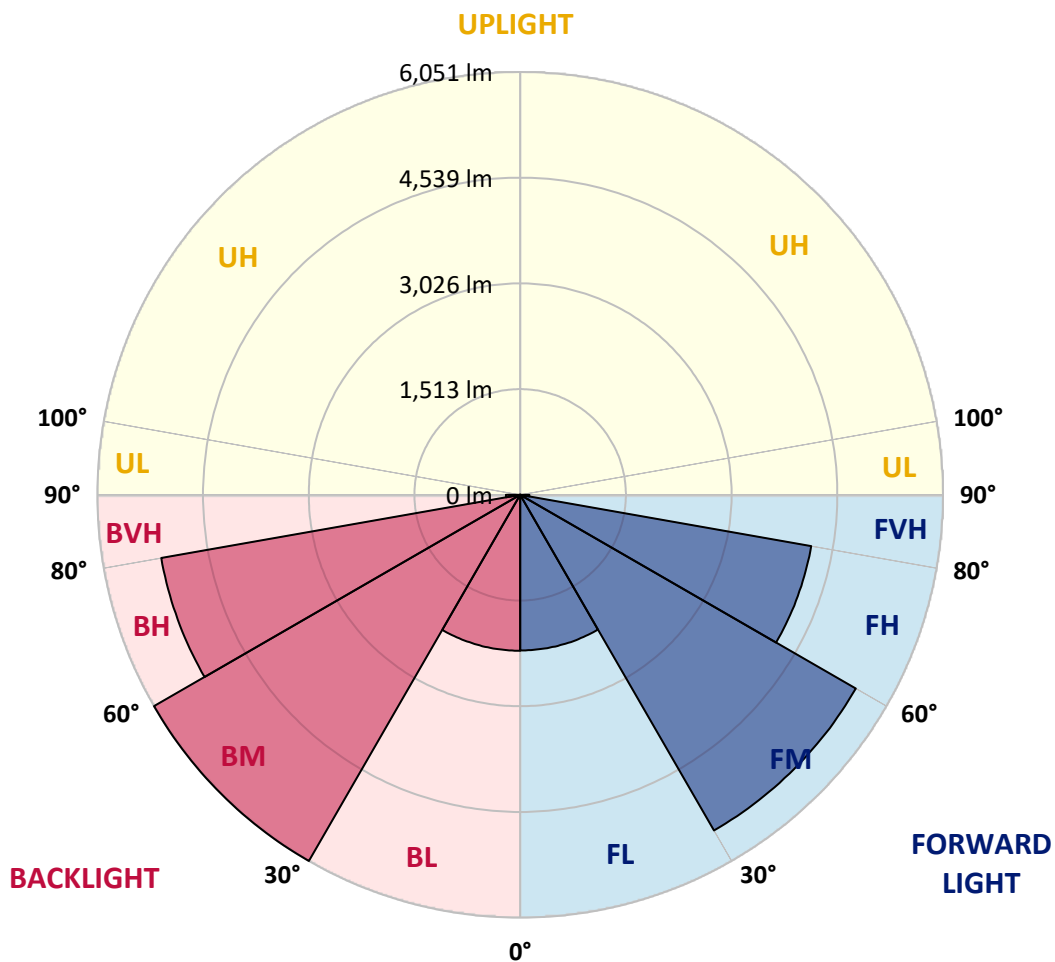
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2227.2	8.6			
FM	(30°-60°)	5546.6	21.5			
FH	(60°-80°)	4229.5	16.4			G2/5000
FVH	(80°-90°)	131.9	0.5			G2/225
BL	(0°-30°)	2231.9	8.6	B3/2500		
BM	(30°-60°)	6051.4	23.4	B4/8500		
BH	(60°-80°)	5215.4	20.2	B5		G5
BVH	(80°-90°)	205.0	0.8			G2/225
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°	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3
2.5°	4986.3	4973.0	4984.7	4986.3	4984.7	4984.7	4969.7	4966.4	4946.5	4951.5	4949.8
5°	5054.3	5049.3	5057.6	5061.0	5064.3	5057.6	5046.0	5041.0	5027.8	5022.8	5021.1
7.5°	5117.4	5109.1	5122.3	5133.9	5142.2	5143.9	5145.6	5137.3	5137.3	5130.6	5130.6
10°	5170.4	5163.8	5185.4	5200.3	5226.8	5241.8	5258.4	5270.0	5276.6	5278.3	5276.6
12.5°	5193.7	5188.7	5223.5	5268.3	5318.1	5352.9	5394.4	5424.2	5432.5	5430.9	5439.2
15°	5153.8	5157.2	5210.2	5298.2	5404.3	5492.2	5550.3	5575.2	5581.8	5585.1	5586.8
17.5°	5046.0	5052.7	5129.0	5271.6	5457.4	5616.6	5702.9	5702.9	5689.6	5689.6	5688.0
20°	4873.5	4880.1	4979.7	5185.4	5459.1	5702.9	5825.7	5800.8	5751.0	5741.1	5731.1
22.5°	4634.6	4661.2	4770.7	5009.5	5387.7	5727.8	5902.0	5865.5	5787.5	5765.9	5751.0
25°	4364.3	4360.9	4492.0	4760.7	5215.2	5668.1	5923.5	5916.9	5833.9	5810.7	5784.2
27.5°	4055.7	4065.7	4186.8	4458.8	4951.5	5495.6	5887.0	5974.9	5906.9	5883.7	5858.8
30°	3738.9	3748.9	3863.3	4180.1	4651.2	5248.4	5812.4	6031.3	6004.8	5986.6	5970.0
32.5°	3420.4	3423.7	3559.8	3899.8	4397.4	4953.1	5699.6	6082.8	6119.3	6111.0	6104.3
35°	3121.8	3125.2	3272.8	3617.8	4147.0	4701.0	5563.6	6157.4	6275.2	6285.1	6291.8
37.5°	2831.5	2836.5	2987.5	3349.1	3899.8	4510.2	5412.6	6271.9	6494.1	6530.6	6537.3
40°	2542.9	2547.9	2692.2	3075.4	3649.3	4342.7	5296.5	6432.8	6789.4	6839.2	6890.6
42.5°	2267.6	2285.8	2408.6	2775.1	3370.7	4135.4	5246.7	6628.5	7139.4	7217.4	7275.4
45°	2010.4	2012.1	2151.4	2494.8	3040.6	3855.0	5213.6	6850.8	7530.9	7648.7	7728.3
47.5°	1735.1	1755.0	1901.0	2234.4	2732.0	3508.3	5107.4	7111.2	7957.2	8094.9	8255.8
50°	1468.0	1496.2	1637.2	1967.3	2450.0	3150.0	4822.1	7416.4	8436.6	8615.7	8801.5
52.5°	1210.9	1209.3	1358.5	1701.9	2166.4	2846.5	4359.3	7736.6	8990.6	9183.0	9383.8
55°	915.6	915.6	1063.3	1376.8	1859.5	2576.1	3863.3	7935.6	9504.8	9737.1	9956.0
57.5°	628.7	645.3	784.6	1055.0	1539.4	2328.9	3483.4	7821.2	9898.0	10186.6	10447.0
60°	466.1	482.7	585.6	758.1	1204.3	2037.0	3198.1	7282.1	10135.2	10518.4	10856.8
62.5°	403.1	414.7	512.6	607.1	867.5	1726.8	2946.0	6597.0	10476.9	11001.1	11472.2
65°	360.0	371.6	469.4	524.2	678.4	1388.4	2805.0	6205.5	10885.0	11686.1	12369.6
67.5°	333.4	346.7	429.6	469.4	592.2	1255.7	2695.5	6114.3	10881.6	11853.7	12726.2
69°	320.1	330.1	398.1	441.2	572.3	1215.9	2458.3	5717.8	10163.4	11206.8	12082.6
70°	311.9	321.8	379.9	423.0	565.6	1144.6	2239.4	5193.7	9345.6	10395.6	11284.7
72.5°	285.3	295.3	338.4	378.2	471.1	764.7	1560.9	3324.2	6678.3	7428.0	8444.9
75°	252.1	263.7	296.9	330.1	356.6	442.9	900.7	1725.1	3818.5	4387.5	5293.2
77.5°	205.7	217.3	252.1	305.2	301.9	336.7	585.6	1060.0	1788.2	2217.8	2552.9
80°	169.2	177.5	207.3	308.5	247.2	282.0	474.4	869.2	1259.0	1391.7	1471.3
82.5°	112.8	124.4	160.9	242.2	189.1	200.7	355.0	812.8	1064.9	1167.8	1264.0
85°	53.1	58.1	97.9	129.4	114.5	107.8	202.4	573.9	792.9	841.0	877.5
87.5°	0.0	0.0	5.0	10.0	14.9	14.9	36.5	121.1	222.3	268.7	265.4
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°	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3
2.5°	4943.2	4944.8	4943.2	4943.2	4941.5	4938.2	4938.2	4934.9	4936.5	4934.9	4938.2
5°	5019.5	5019.5	5014.5	5011.2	5016.2	5011.2	5012.9	5004.6	5004.6	4999.6	4992.9
7.5°	5129.0	5129.0	5130.6	5120.7	5127.3	5129.0	5124.0	5120.7	5117.4	5109.1	5110.7
10°	5274.9	5274.9	5279.9	5266.6	5273.3	5276.6	5278.3	5278.3	5274.9	5260.0	5261.7
12.5°	5437.5	5434.2	5435.8	5429.2	5435.8	5439.2	5442.5	5439.2	5439.2	5435.8	5434.2
15°	5585.1	5583.5	5586.8	5581.8	5583.5	5586.8	5596.7	5595.1	5593.4	5583.5	5583.5
17.5°	5686.3	5681.3	5678.0	5676.4	5676.4	5674.7	5676.4	5676.4	5671.4	5669.7	5669.7
20°	5724.5	5711.2	5702.9	5697.9	5691.3	5688.0	5684.7	5686.3	5683.0	5678.0	5679.7
22.5°	5731.1	5712.9	5696.3	5681.3	5668.1	5659.8	5651.5	5648.2	5639.9	5634.9	5634.9
25°	5762.6	5734.4	5707.9	5683.0	5663.1	5644.8	5626.6	5613.3	5603.4	5591.8	5588.4
27.5°	5832.3	5802.4	5770.9	5739.4	5712.9	5676.4	5651.5	5624.9	5601.7	5583.5	5570.2
30°	5940.1	5910.3	5878.7	5842.2	5807.4	5769.3	5727.8	5696.3	5663.1	5626.6	5606.7
32.5°	6082.8	6062.9	6031.3	5996.5	5965.0	5925.2	5875.4	5827.3	5795.8	5752.7	5721.2
35°	6286.8	6263.6	6253.6	6238.7	6207.2	6182.3	6127.6	6082.8	6052.9	5993.2	5970.0
37.5°	6565.5	6563.8	6572.1	6567.1	6572.1	6540.6	6515.7	6514.1	6470.9	6412.9	6356.5
40°	6945.3	6965.2	7010.0	7041.5	7071.4	7074.7	7109.6	7073.1	7078.0	7069.7	7011.7
42.5°	7378.3	7446.3	7499.4	7592.3	7663.6	7729.9	7774.7	7836.1	7882.5	7924.0	7934.0
45°	7861.0	7962.2	8084.9	8167.9	8307.2	8418.3	8570.9	8688.7	8811.5	8932.6	8975.7
47.5°	8385.2	8511.2	8647.2	8801.5	8977.3	9151.5	9387.1	9567.9	9765.3	9929.5	10075.5
50°	8964.1	9095.1	9277.6	9455.1	9697.3	9898.0	10206.5	10443.7	10762.2	10981.2	11170.3
52.5°	9567.9	9732.1	9936.1	10131.9	10379.0	10636.1	10979.5	11329.5	11712.7	12044.4	12319.8
55°	10158.4	10360.8	10556.5	10785.4	11059.1	11357.7	11745.9	12207.0	12684.7	13064.6	13429.5
57.5°	10684.2	10918.1	11148.7	11380.9	11661.3	12007.9	12444.2	12941.8	13489.2	13995.2	14496.1
60°	11171.9	11452.3	11734.2	12024.5	12346.3	12774.3	13298.5	13910.6	14618.9	15310.6	15965.8
62.5°	11943.3	12311.5	12661.5	13036.4	13424.6	13927.2	14545.9	15348.7	16161.5	17025.8	17697.6
65°	12988.3	13505.8	13963.7	14449.7	14952.3	15624.1	16363.9	17324.4	18488.8	19374.6	20452.8
67.5°	13507.5	14189.3	14778.1	15318.9	15940.9	16619.4	17498.5	18634.8	19877.2	21161.1	22363.7
69°	12897.1	13600.4	14252.3	14857.7	15486.4	16145.0	17063.9	18230.1	19543.8	20932.2	22106.6
70°	12105.8	12809.1	13504.2	14194.2	14768.2	15410.1	16332.4	17535.0	18847.1	20290.3	21454.7
72.5°	9274.3	10120.3	10748.9	11395.9	12061.0	12605.1	13670.1	14683.6	16050.4	17515.1	18797.4
75°	5933.5	6711.4	7398.2	7948.9	8599.1	9251.0	10037.3	11163.6	12019.6	13222.2	14262.2
77.5°	3048.8	3279.4	3941.3	4138.7	4589.9	4944.8	5377.8	5659.8	6356.5	6504.1	7117.8
80°	1444.8	1302.1	1225.8	1156.2	1176.1	1167.8	1133.0	1086.5	1144.6	1119.7	1109.7
82.5°	1259.0	1123.0	895.7	761.4	658.5	559.0	481.0	441.2	446.2	459.5	464.5
85°	882.5	829.4	646.9	491.0	383.2	296.9	238.9	228.9	235.5	253.8	247.2
87.5°	255.5	267.1	235.5	164.2	114.5	82.9	64.7	73.0	69.7	68.0	71.3
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°	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3
2.5°	4938.2	4936.5	4931.6	4926.6	4926.6	4923.3	4926.6	4928.3	4926.6	4926.6	4923.3
5°	4994.6	4996.3	5001.2	4991.3	4989.6	4991.3	4984.7	4983.0	4978.0	4983.0	4976.4
7.5°	5102.4	5107.4	5107.4	5100.8	5099.1	5104.1	5094.1	5090.8	5085.8	5084.2	5082.5
10°	5263.3	5268.3	5260.0	5255.0	5250.1	5256.7	5248.4	5248.4	5243.4	5238.4	5236.8
12.5°	5442.5	5439.2	5435.8	5439.2	5434.2	5434.2	5429.2	5425.9	5424.2	5422.6	5419.3
15°	5581.8	5593.4	5593.4	5596.7	5593.4	5593.4	5586.8	5588.4	5585.1	5583.5	5585.1
17.5°	5671.4	5674.7	5683.0	5688.0	5688.0	5689.6	5686.3	5689.6	5686.3	5686.3	5693.0
20°	5683.0	5686.3	5694.6	5702.9	5707.9	5711.2	5711.2	5716.2	5719.5	5722.8	5731.1
22.5°	5636.6	5641.5	5651.5	5666.4	5674.7	5678.0	5684.7	5693.0	5701.2	5707.9	5719.5
25°	5588.4	5590.1	5600.1	5615.0	5624.9	5633.2	5644.8	5654.8	5666.4	5679.7	5693.0
27.5°	5561.9	5560.2	5568.5	5583.5	5591.8	5603.4	5613.3	5628.3	5641.5	5658.1	5669.7
30°	5585.1	5571.9	5573.5	5580.2	5586.8	5595.1	5606.7	5620.0	5634.9	5649.8	5663.1
32.5°	5688.0	5658.1	5638.2	5633.2	5634.9	5636.6	5643.2	5651.5	5663.1	5674.7	5679.7
35°	5910.3	5858.8	5832.3	5810.7	5792.5	5777.6	5780.9	5779.2	5779.2	5789.2	5777.6
37.5°	6333.2	6268.6	6240.4	6202.2	6180.6	6125.9	6111.0	6107.6	6086.1	6086.1	6061.2
40°	6996.8	6958.6	6937.0	6902.2	6797.7	6811.0	6736.3	6738.0	6676.6	6683.2	6640.1
42.5°	7940.6	7945.6	7919.0	7895.8	7814.5	7778.0	7708.4	7608.8	7530.9	7529.2	7443.0
45°	9032.1	9091.8	9007.2	9037.1	8965.7	8867.9	8786.6	8658.9	8537.8	8499.6	8411.7
47.5°	10173.3	10271.2	10206.5	10218.1	10183.3	10043.9	9934.5	9776.9	9619.3	9513.1	9460.1
50°	11392.5	11457.2	11455.6	11424.1	11407.5	11271.4	11095.6	10976.2	10860.1	10717.4	10671.0
52.5°	12497.3	12648.2	12749.4	12726.2	12678.1	12596.8	12440.9	12338.0	12167.2	12147.3	12167.2
55°	13680.0	13875.7	13978.6	14103.0	14104.7	14089.7	14025.0	13986.9	13827.6	13845.9	13822.7
57.5°	14799.7	15086.7	15244.2	15509.6	15600.9	15722.0	15677.2	15726.9	15630.7	15693.8	15675.5
60°	16317.5	16715.6	16977.7	17340.9	17510.1	17813.7	17873.4	17909.9	17963.0	18092.4	18019.4
62.5°	18226.7	18810.6	19354.7	19849.0	20011.6	20467.8	20542.4	20827.7	20842.6	20930.6	20769.7
65°	21351.9	22063.5	22662.3	23254.5	23596.2	24130.4	24346.0	24900.0	24730.8	24802.2	24458.8
67.5°	23398.8	24226.6	25029.4	25590.1	26157.4	26703.1	27096.3	27454.6	27451.2	27381.6	27076.4
69°	23218.0	24140.3	24931.5	25683.0	26280.1	26840.8	27313.6	27545.8	27627.1	27525.9	27308.6
70°	22592.7	23539.8	24508.6	25127.3	25777.5	26392.9	26880.6	27134.4	27190.8	27119.5	26932.0
72.5°	19703.1	20612.1	21680.3	22242.7	23028.9	23473.5	24145.3	24473.7	24531.8	24440.5	24317.8
75°	15376.9	15541.2	16629.3	16987.6	17558.2	18070.8	18488.8	18382.7	18679.6	18621.5	18575.1
77.5°	7243.9	6806.0	7511.0	7839.4	7666.9	7207.4	7875.9	7393.2	7713.4	8129.7	8023.5
80°	1194.3	1191.0	1222.5	1292.2	1209.3	1283.9	1282.2	1245.7	1249.1	1338.6	1292.2
82.5°	459.5	469.4	474.4	487.7	487.7	489.3	497.6	507.6	499.3	515.9	512.6
85°	248.8	265.4	250.5	238.9	247.2	252.1	258.8	267.1	258.8	283.7	270.4
87.5°	64.7	68.0	59.7	59.7	58.1	53.1	53.1	56.4	61.4	73.0	79.6
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°	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3
2.5°	4916.6	4918.3	4920.0	4915.0	4911.7	4911.7	4910.0	4906.7	4905.0	4905.0	4905.0
5°	4973.0	4976.4	4968.1	4966.4	4963.1	4959.8	4959.8	4956.5	4958.1	4958.1	4949.8
7.5°	5085.8	5080.9	5070.9	5064.3	5070.9	5059.3	5054.3	5057.6	5054.3	5056.0	5052.7
10°	5236.8	5236.8	5225.2	5231.8	5223.5	5210.2	5215.2	5210.2	5206.9	5195.3	5202.0
12.5°	5424.2	5419.3	5412.6	5397.7	5392.7	5391.1	5376.1	5377.8	5372.8	5369.5	5364.5
15°	5588.4	5586.8	5571.9	5563.6	5561.9	5555.3	5548.6	5545.3	5537.0	5535.4	5532.1
17.5°	5697.9	5693.0	5686.3	5678.0	5678.0	5668.1	5664.8	5656.5	5654.8	5649.8	5644.8
20°	5734.4	5736.1	5729.4	5722.8	5719.5	5712.9	5707.9	5701.2	5697.9	5691.3	5686.3
22.5°	5726.1	5726.1	5719.5	5717.8	5711.2	5701.2	5694.6	5686.3	5678.0	5669.7	5659.8
25°	5699.6	5697.9	5693.0	5684.7	5676.4	5661.4	5648.2	5634.9	5623.3	5613.3	5598.4
27.5°	5676.4	5673.0	5663.1	5651.5	5634.9	5618.3	5593.4	5575.2	5560.2	5547.0	5530.4
30°	5668.1	5656.5	5641.5	5623.3	5603.4	5578.5	5552.0	5528.7	5512.1	5498.9	5492.2
32.5°	5678.0	5663.1	5639.9	5616.6	5591.8	5561.9	5535.4	5515.5	5500.5	5497.2	5497.2
35°	5769.3	5744.4	5712.9	5679.7	5648.2	5623.3	5605.0	5603.4	5593.4	5605.0	5623.3
37.5°	6036.3	6014.8	5966.7	5923.5	5902.0	5890.3	5873.8	5877.1	5853.9	5890.3	5920.2
40°	6603.6	6577.1	6520.7	6485.9	6442.7	6401.3	6434.4	6424.5	6441.1	6434.4	6465.9
42.5°	7431.4	7404.8	7315.2	7302.0	7283.7	7267.1	7267.1	7253.9	7247.2	7270.5	7243.9
45°	8438.2	8385.2	8352.0	8391.8	8337.1	8353.6	8411.7	8333.7	8352.0	8244.2	8144.6
47.5°	9483.3	9478.3	9470.0	9518.1	9526.4	9551.3	9582.8	9503.2	9358.9	9277.6	9075.2
50°	10685.9	10737.3	10757.2	10803.7	10823.6	10841.8	10792.1	10674.3	10430.4	10214.8	9975.9
52.5°	12147.3	12057.7	12180.5	12225.3	12205.3	12132.4	11953.2	11808.9	11472.2	11162.0	10792.1
55°	13849.2	13870.8	13784.5	13749.7	13681.7	13479.3	13232.1	12907.0	12480.7	12076.0	11608.2
57.5°	15582.6	15574.3	15440.0	15250.9	15020.3	14776.5	14408.2	13942.1	13444.5	12900.4	12334.7
60°	17690.9	17682.7	17410.6	17087.2	16758.7	16365.6	15788.3	15227.7	14560.8	13845.9	13172.4
62.5°	20461.1	20104.5	19837.4	19354.7	18847.1	18332.9	17551.6	16806.8	15916.0	15013.7	14227.4
65°	24010.9	23423.7	23120.2	22420.1	21633.9	20831.0	20036.5	19057.8	17858.5	16767.0	15806.6
67.5°	26636.8	26099.3	25543.6	24845.3	23982.7	23087.0	21998.8	20766.3	19404.5	18180.3	17133.6
69°	26867.4	26364.7	25697.9	24997.9	24181.8	23208.1	22020.4	20640.3	19260.2	18021.0	16990.9
70°	26517.3	25983.2	25281.6	24553.3	23641.0	22722.0	21478.0	20039.8	18658.0	17415.6	16410.4
72.5°	23906.4	23385.6	22639.1	21768.2	20832.7	20046.4	18865.4	17365.8	15863.0	14715.1	13932.1
75°	18178.6	18064.2	17535.0	17027.4	16290.9	15413.4	14333.6	13325.0	12092.5	10878.3	10148.5
77.5°	7756.5	8020.2	8295.6	8335.4	8361.9	8091.6	7924.0	7670.2	6845.8	6470.9	6084.4
80°	1433.2	1280.6	1366.8	1376.8	1433.2	1463.0	1572.5	1864.5	1897.7	1969.0	2056.9
82.5°	509.2	517.5	530.8	535.8	540.8	560.7	635.3	761.4	875.8	1025.1	1224.2
85°	288.6	293.6	305.2	315.2	321.8	341.7	383.2	457.8	570.6	741.5	1005.2
87.5°	87.9	99.5	106.2	119.4	124.4	127.7	146.0	195.7	252.1	373.2	544.1
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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CATALOG NUMBER: VTS-F11-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3	4908.3
2.5°	4905.0	4903.4	4900.1	4896.7	4898.4	4895.1	4885.1	4881.8	4870.2	4861.9	4855.3
5°	4949.8	4948.2	4941.5	4943.2	4941.5	4924.9	4913.3	4893.4	4881.8	4863.6	4856.9
7.5°	5042.7	5041.0	5029.4	5034.4	5031.1	5006.2	4986.3	4954.8	4938.2	4915.0	4896.7
10°	5182.0	5182.0	5168.8	5170.4	5170.4	5137.3	5102.4	5049.3	5011.2	4974.7	4943.2
12.5°	5351.2	5344.6	5342.9	5334.7	5328.0	5291.5	5238.4	5167.1	5095.8	5036.1	4992.9
15°	5522.1	5512.1	5507.2	5497.2	5488.9	5455.7	5384.4	5296.5	5200.3	5104.1	5032.8
17.5°	5633.2	5626.6	5616.6	5613.3	5601.7	5568.5	5518.8	5430.9	5311.4	5177.1	5069.2
20°	5674.7	5663.1	5656.5	5649.8	5643.2	5620.0	5620.0	5563.6	5430.9	5241.8	5077.5
22.5°	5648.2	5641.5	5631.6	5626.6	5620.0	5623.3	5688.0	5679.7	5527.1	5256.7	5017.8
25°	5586.8	5578.5	5570.2	5570.2	5568.5	5603.4	5759.3	5780.9	5555.3	5183.7	4886.8
27.5°	5523.8	5512.1	5515.5	5517.1	5525.4	5600.1	5837.3	5807.4	5479.0	5007.9	4661.2
30°	5485.6	5485.6	5493.9	5507.2	5523.8	5654.8	5898.6	5747.7	5281.6	4742.5	4362.6
32.5°	5502.2	5518.8	5537.0	5570.2	5595.1	5775.9	5920.2	5593.4	4994.6	4414.0	4050.8
35°	5649.8	5669.7	5704.6	5756.0	5785.8	5950.1	5920.2	5367.8	4661.2	4132.0	3729.0
37.5°	5971.6	5991.5	6033.0	6072.8	6102.7	6169.0	5895.3	5080.9	4382.5	3840.1	3440.3
40°	6489.2	6517.4	6547.2	6540.6	6520.7	6456.0	5845.6	4813.8	4125.4	3584.6	3156.7
42.5°	7217.4	7190.8	7187.5	7122.8	7056.5	6779.5	5809.1	4639.6	3904.8	3315.9	2874.7
45°	8058.4	7950.6	7839.4	7753.2	7652.0	7134.4	5799.1	4498.6	3660.9	3017.3	2567.8
47.5°	8904.4	8731.8	8516.2	8381.8	8217.6	7512.6	5829.0	4309.5	3347.4	2692.2	2280.8
50°	9733.8	9451.8	9184.7	9023.8	8838.0	7947.2	5877.1	3991.0	2972.5	2396.9	2018.7
52.5°	10501.8	10138.5	9864.8	9675.7	9448.4	8453.2	5833.9	3573.0	2647.4	2113.3	1769.9
55°	11231.6	10830.2	10546.6	10347.5	10080.4	8960.8	5522.1	3193.2	2337.2	1836.3	1489.6
57.5°	11870.3	11485.4	11190.2	10919.8	10694.2	9402.0	4906.7	2879.7	2038.6	1519.4	1186.0
60°	12616.7	12183.8	11833.8	11545.1	11279.7	9629.3	4216.6	2601.0	1720.2	1176.1	857.6
62.5°	13623.6	13126.0	12721.2	12391.1	12044.4	9679.0	3745.5	2322.3	1365.2	851.0	623.7
65°	15116.5	14502.8	13996.8	13542.3	13072.9	9473.3	3513.3	2018.7	1015.2	632.0	522.5
67.5°	16302.5	15665.6	15080.0	14496.1	13895.6	9091.8	3461.9	1738.4	779.6	537.4	469.4
69°	16158.2	15551.1	15013.7	14381.7	13716.5	8612.4	3410.5	1630.6	711.6	499.3	444.6
70°	15602.5	15026.9	14481.2	13967.0	13152.5	8078.3	3274.4	1570.9	685.1	481.0	426.3
72.5°	13184.0	12517.2	11988.0	11347.8	10490.2	6003.1	2483.2	1270.6	628.7	439.6	384.8
75°	9616.0	9063.6	8536.1	7827.8	6993.4	3473.5	1546.0	726.5	461.1	398.1	348.3
77.5°	5615.0	5490.6	4981.3	4515.2	3689.1	1768.3	887.5	434.6	358.3	361.6	306.9
80°	2113.3	2251.0	2302.4	2141.5	1978.9	1220.9	645.3	353.3	311.9	356.6	260.4
82.5°	1541.0	1788.2	1818.0	1741.7	1620.6	1137.9	515.9	283.7	253.8	383.2	223.9
85°	1285.6	1423.2	1444.8	1365.2	1325.4	963.8	360.0	199.1	185.8	275.4	167.5
87.5°	650.2	685.1	703.3	637.0	640.3	449.5	144.3	84.6	101.2	117.8	92.9
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: P157964

CATALOG NUMBER: VTS-F11-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4908.3	4908.3
2.5°	4840.3	4850.3
5°	4847.0	4847.0
7.5°	4885.1	4885.1
10°	4926.6	4928.3
12.5°	4964.7	4963.1
15°	4994.6	4989.6
17.5°	5012.9	5007.9
20°	4994.6	4986.3
22.5°	4901.7	4878.5
25°	4732.5	4702.7
27.5°	4508.6	4488.7
30°	4216.6	4186.8
32.5°	3874.9	3860.0
35°	3548.1	3529.9
37.5°	3249.6	3244.6
40°	2997.4	2970.9
42.5°	2702.2	2690.6
45°	2401.9	2395.3
47.5°	2119.9	2113.3
50°	1859.5	1846.2
52.5°	1604.0	1582.5
55°	1320.4	1305.5
57.5°	1013.5	1000.2
60°	713.3	698.3
62.5°	507.6	491.0
65°	423.0	409.7
67.5°	383.2	368.3
69°	364.9	351.7
70°	353.3	343.4
72.5°	328.4	321.8
75°	300.2	295.3
77.5°	263.7	255.5
80°	220.6	212.3
82.5°	185.8	177.5
85°	124.4	112.8
87.5°	56.4	49.8
90°	0.0	0.0

(END OF REPORT)