

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: P157939

Luminaire Tested: **VTS-E09-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157939
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-E09-LED-E1-RW-7030
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (189) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25609.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

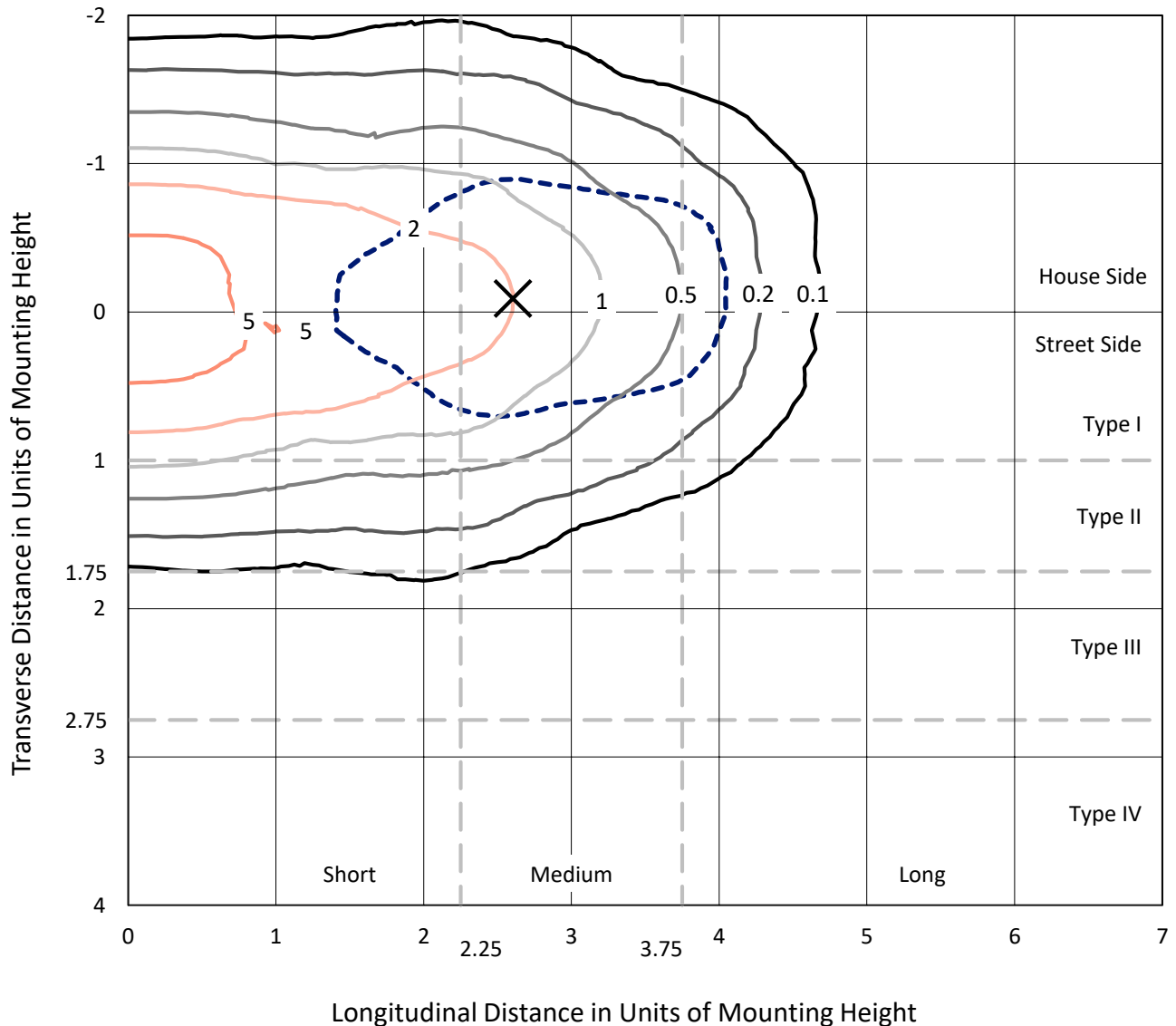
Input Watts (W): 225.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

Iso-Footcandle Lines of Horizontal Illumination

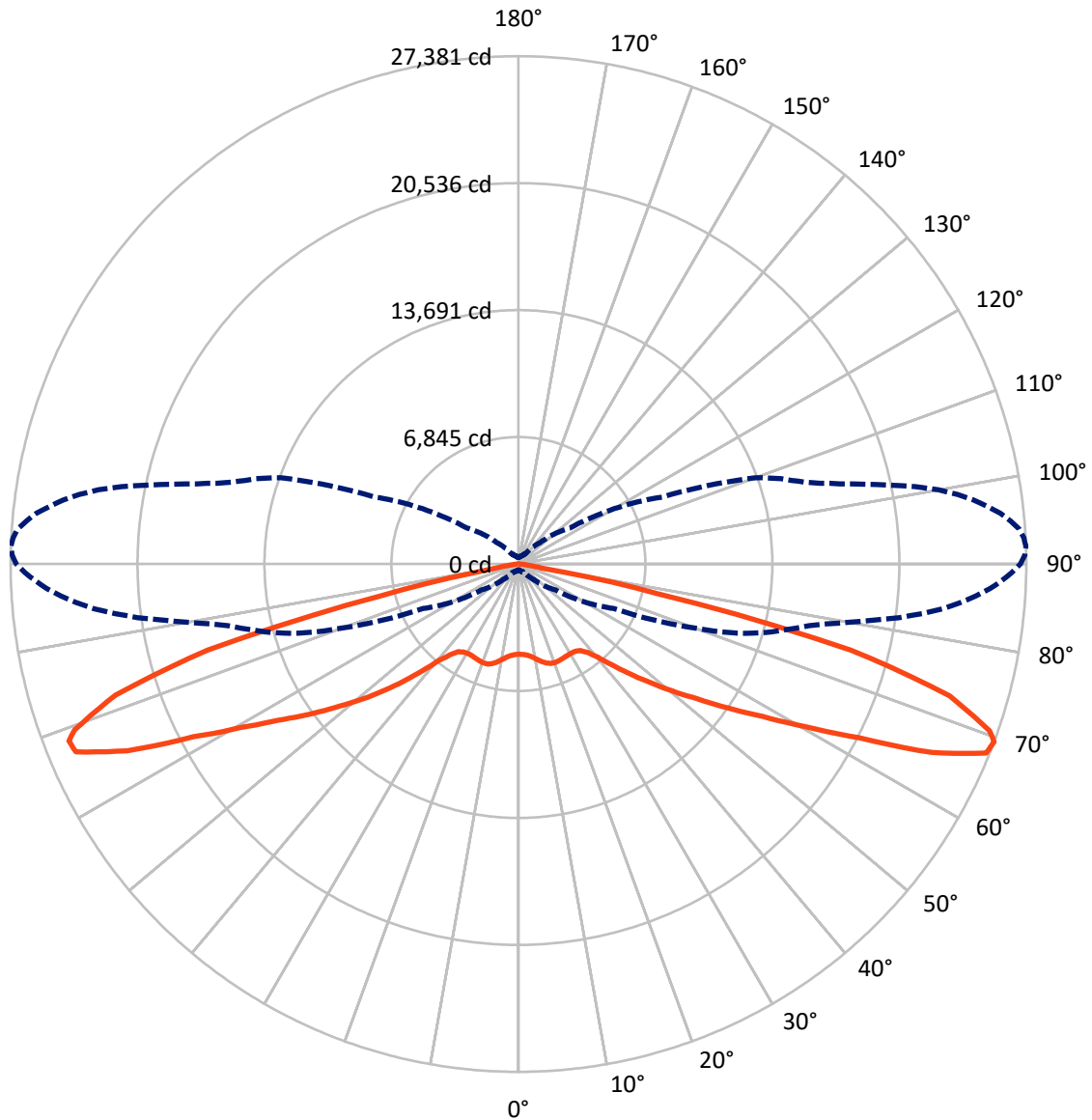
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P157939
CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13581.9	0.0	13581.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	12027.3	0.0	12027.3
	% Fixture	47.0	0.0	47.0
Total	Lumens	25609.2	0.0	25609.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.0	1.9
10°-20°	1503.7	5.9
20°-30°	2439.7	9.5
30°-40°	3040.5	11.9
40°-50°	3785.7	14.8
50°-60°	4668.7	18.2
60°-70°	5798.3	22.6
70°-80°	3562.7	13.9
80°-90°	333.9	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°	25609.2	100.0
0°-180°	25609.2	100.0



REPORT NUMBER: P157939

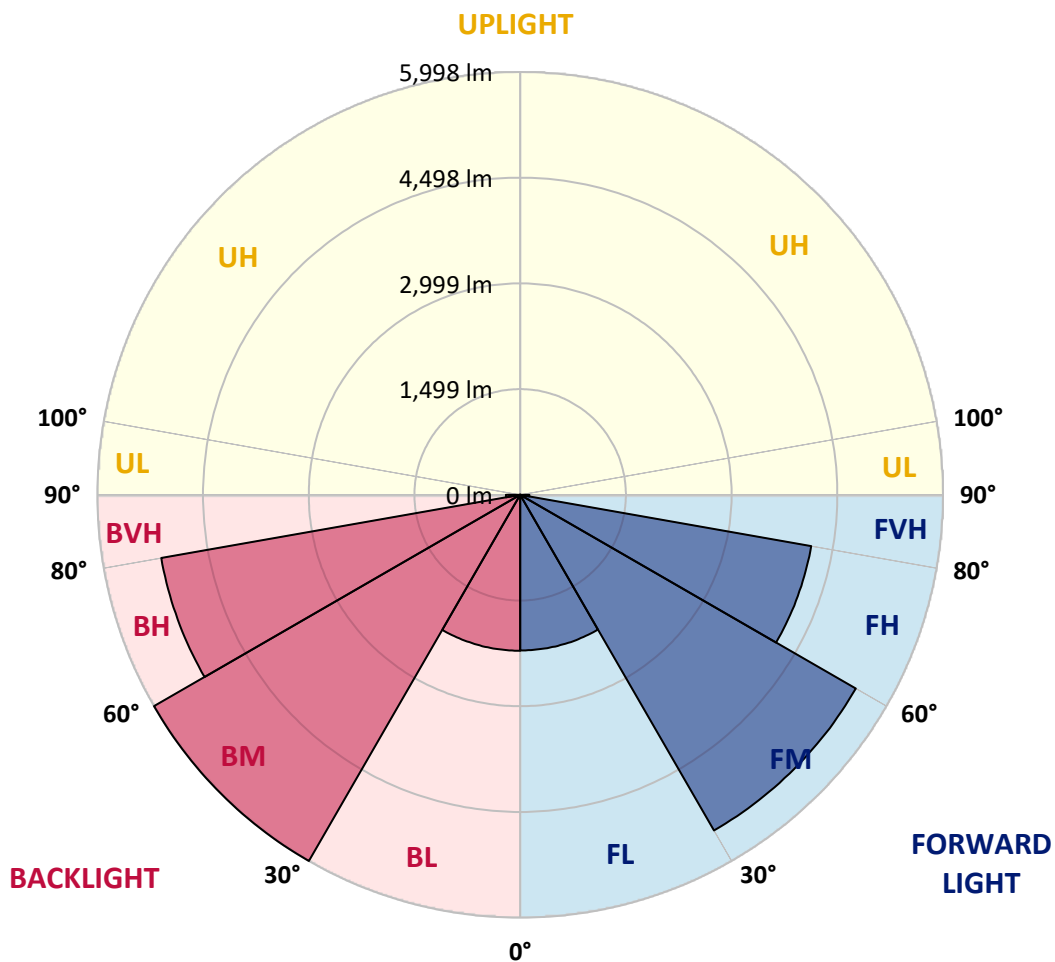
CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.4	8.6			
FM	(30°-60°)	5497.3	21.5			
FH	(60°-80°)	4191.9	16.4			G2/5000
FVH	(80°-90°)	130.7	0.5			G2/225
BL	(0°-30°)	2212.0	8.6	B3/2500		
BM	(30°-60°)	5997.6	23.4	B4/8500		
BH	(60°-80°)	5169.1	20.2	B5		G5
BVH	(80°-90°)	203.2	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





REPORT NUMBER: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7
2.5°	4942.0	4928.8	4940.3	4942.0	4940.3	4940.3	4925.5	4922.2	4902.5	4907.4	4905.8
5°	5009.4	5004.4	5012.6	5015.9	5019.2	5012.6	5001.1	4996.2	4983.1	4978.1	4976.5
7.5°	5071.8	5063.6	5076.8	5088.3	5096.5	5098.1	5099.8	5091.6	5091.6	5085.0	5085.0
10°	5124.4	5117.9	5139.2	5154.0	5180.3	5195.1	5211.6	5223.1	5229.7	5231.3	5229.7
12.5°	5147.5	5142.5	5177.1	5221.4	5270.8	5305.3	5346.4	5376.0	5384.2	5382.6	5390.8
15°	5108.0	5111.3	5163.9	5251.0	5356.3	5443.4	5500.9	5525.6	5532.2	5535.5	5537.1
17.5°	5001.1	5007.7	5083.3	5224.7	5408.9	5566.7	5652.2	5652.2	5639.0	5639.0	5637.4
20°	4830.2	4836.7	4935.4	5139.2	5410.5	5652.2	5773.8	5749.2	5699.9	5690.0	5680.1
22.5°	4593.4	4619.7	4728.2	4965.0	5339.8	5676.8	5849.5	5813.3	5736.0	5714.7	5699.9
25°	4325.4	4322.2	4452.0	4718.4	5168.8	5617.7	5870.8	5864.3	5782.1	5759.0	5732.7
27.5°	4019.7	4029.5	4149.5	4419.2	4907.4	5446.7	5834.7	5921.8	5854.4	5831.4	5806.7
30°	3705.6	3715.5	3828.9	4143.0	4609.9	5201.7	5760.7	5977.7	5951.4	5933.3	5916.9
32.5°	3390.0	3393.3	3528.1	3865.1	4358.3	4909.1	5648.9	6028.7	6064.8	6056.6	6050.0
35°	3094.1	3097.4	3243.7	3585.6	4110.1	4659.2	5514.1	6102.6	6219.4	6229.2	6235.8
37.5°	2806.4	2811.3	2960.9	3319.3	3865.1	4470.1	5364.5	6216.1	6436.4	6472.5	6479.1
40°	2520.3	2525.2	2668.3	3048.0	3616.9	4304.1	5249.4	6375.6	6729.0	6778.3	6829.3
42.5°	2247.4	2265.5	2387.1	2750.5	3340.7	4098.6	5200.1	6569.5	7075.9	7153.2	7210.7
45°	1992.6	1994.2	2132.3	2472.6	3013.5	3820.7	5167.2	6789.8	7463.9	7580.6	7659.5
47.5°	1719.7	1739.4	1884.1	2214.5	2707.7	3477.1	5062.0	7048.0	7886.4	8022.9	8182.3
50°	1455.0	1482.9	1622.7	1949.8	2428.2	3122.0	4779.2	7350.5	8361.5	8539.1	8723.2
52.5°	1200.1	1198.5	1346.5	1686.8	2147.1	2821.2	4320.5	7667.8	8910.6	9101.4	9300.3
55°	907.5	907.5	1053.8	1364.5	1843.0	2553.2	3828.9	7865.0	9420.3	9650.5	9867.5
57.5°	623.1	639.5	777.6	1045.6	1525.7	2308.2	3452.5	7751.6	9809.9	10096.0	10354.1
60°	462.0	478.4	580.3	751.3	1193.6	2018.9	3169.7	7217.3	10045.0	10424.8	10760.2
62.5°	399.5	411.0	508.0	601.7	859.8	1711.4	2919.8	6538.3	10383.7	10903.2	11370.1
65°	356.8	368.3	465.3	519.5	672.4	1376.1	2780.1	6150.3	10788.1	11582.2	12259.5
67.5°	330.5	343.6	425.8	465.3	586.9	1244.5	2671.5	6059.9	10784.8	11748.2	12613.0
69°	317.3	327.2	394.6	437.3	567.2	1205.1	2436.5	5667.0	10073.0	11107.1	11975.1
70°	309.1	318.9	376.5	419.2	560.6	1134.4	2219.4	5147.5	9262.5	10303.1	11184.3
72.5°	282.8	292.6	335.4	374.8	466.9	757.9	1547.0	3294.6	6618.9	7362.0	8369.8
75°	249.9	261.4	294.3	327.2	353.5	439.0	892.7	1709.8	3784.6	4348.5	5246.1
77.5°	203.9	215.4	249.9	302.5	299.2	333.7	580.3	1050.5	1772.3	2198.1	2530.2
80°	167.7	175.9	205.5	305.8	245.0	279.5	470.2	861.5	1247.8	1379.3	1458.3
82.5°	111.8	123.3	159.5	240.0	187.4	198.9	351.8	805.6	1055.5	1157.4	1252.8
85°	52.6	57.5	97.0	128.2	113.4	106.9	200.6	568.8	785.8	833.5	869.7
87.5°	0.0	0.0	4.9	9.9	14.8	14.8	36.2	120.0	220.3	266.3	263.0
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: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7
2.5°	4899.2	4900.9	4899.2	4899.2	4897.6	4894.3	4894.3	4891.0	4892.6	4891.0	4894.3
5°	4974.8	4974.8	4969.9	4966.6	4971.5	4966.6	4968.3	4960.0	4960.0	4955.1	4948.5
7.5°	5083.3	5083.3	5085.0	5075.1	5081.7	5083.3	5078.4	5075.1	5071.8	5063.6	5065.3
10°	5228.0	5228.0	5232.9	5219.8	5226.4	5229.7	5231.3	5231.3	5228.0	5213.2	5214.9
12.5°	5389.1	5385.8	5387.5	5380.9	5387.5	5390.8	5394.1	5390.8	5390.8	5387.5	5385.8
15°	5535.5	5533.8	5537.1	5532.2	5533.8	5537.1	5547.0	5545.3	5543.7	5533.8	5533.8
17.5°	5635.7	5630.8	5627.5	5625.9	5625.9	5624.2	5625.9	5625.9	5620.9	5619.3	5619.3
20°	5673.5	5660.4	5652.2	5647.2	5640.7	5637.4	5634.1	5635.7	5632.4	5627.5	5629.2
22.5°	5680.1	5662.0	5645.6	5630.8	5617.7	5609.4	5601.2	5597.9	5589.7	5584.8	5584.8
25°	5711.4	5683.4	5657.1	5632.4	5612.7	5594.6	5576.6	5563.4	5553.5	5542.0	5538.7
27.5°	5780.4	5750.8	5719.6	5688.3	5662.0	5625.9	5601.2	5574.9	5551.9	5533.8	5520.7
30°	5887.3	5857.7	5826.4	5790.3	5755.8	5717.9	5676.8	5645.6	5612.7	5576.6	5556.8
32.5°	6028.7	6008.9	5977.7	5943.2	5911.9	5872.5	5823.2	5775.5	5744.2	5701.5	5670.3
35°	6230.9	6207.9	6198.0	6183.2	6152.0	6127.3	6073.0	6028.7	5999.1	5939.9	5916.9
37.5°	6507.1	6505.4	6513.6	6508.7	6513.6	6482.4	6457.8	6456.1	6413.4	6355.8	6299.9
40°	6883.6	6903.3	6947.7	6978.9	7008.5	7011.8	7046.3	7010.1	7015.1	7006.9	6949.3
42.5°	7312.6	7380.1	7432.7	7524.7	7595.4	7661.2	7705.6	7766.4	7812.4	7853.5	7863.4
45°	7791.1	7891.3	8013.0	8095.2	8233.3	8343.5	8494.7	8611.4	8733.1	8853.1	8895.8
47.5°	8310.6	8435.5	8570.3	8723.2	8897.5	9070.1	9303.6	9482.8	9678.4	9841.2	9985.8
50°	8884.3	9014.2	9195.1	9371.0	9611.0	9809.9	10115.7	10350.8	10666.5	10883.5	11070.9
52.5°	9482.8	9645.5	9847.7	10041.7	10286.7	10541.5	10881.8	11228.7	11608.5	11937.3	12210.2
55°	10068.0	10268.6	10462.6	10689.5	10960.8	11256.7	11641.4	12098.4	12571.9	12948.4	13310.1
57.5°	10589.2	10821.0	11049.5	11279.7	11557.5	11901.1	12333.5	12826.7	13369.3	13870.7	14367.2
60°	11072.5	11350.4	11629.9	11917.6	12236.5	12660.7	13180.2	13786.8	14488.8	15174.4	15823.8
62.5°	11837.0	12202.0	12548.9	12920.4	13305.1	13803.3	14416.5	15212.2	16017.8	16874.3	17540.2
65°	12872.8	13385.7	13839.4	14321.2	14819.3	15485.1	16218.4	17170.3	18324.4	19202.3	20270.9
67.5°	13387.3	14063.0	14646.7	15182.6	15799.1	16471.5	17342.9	18469.0	19700.4	20972.9	22164.8
69°	12782.3	13479.4	14125.5	14725.6	15348.7	16001.3	16912.1	18067.9	19370.0	20746.0	21910.0
70°	11998.1	12695.2	13384.1	14068.0	14636.8	15273.0	16187.1	17379.0	18679.5	20109.8	21263.9
72.5°	9191.8	10030.2	10653.3	11294.5	11953.7	12493.0	13548.5	14553.0	15907.6	17359.3	18630.2
75°	5880.7	6651.7	7332.4	7878.2	8522.7	9168.8	9948.0	11064.3	11912.6	13104.6	14135.4
77.5°	3021.7	3250.2	3906.2	4101.9	4549.0	4900.9	5329.9	5609.4	6299.9	6446.2	7054.5
80°	1432.0	1290.6	1214.9	1145.9	1165.6	1157.4	1122.9	1076.8	1134.4	1109.7	1099.9
82.5°	1247.8	1113.0	887.8	754.6	652.7	554.0	476.8	437.3	442.2	455.4	460.3
85°	874.6	822.0	641.2	486.6	379.8	294.3	236.7	226.9	233.5	251.5	245.0
87.5°	253.2	264.7	233.5	162.8	113.4	82.2	64.1	72.3	69.0	67.4	70.7
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: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7
2.5°	4894.3	4892.6	4887.7	4882.8	4882.8	4879.5	4882.8	4884.4	4882.8	4882.8	4879.5
5°	4950.2	4951.8	4956.8	4946.9	4945.2	4946.9	4940.3	4938.7	4933.7	4938.7	4932.1
7.5°	5057.0	5062.0	5062.0	5055.4	5053.8	5058.7	5048.8	5045.5	5040.6	5039.0	5037.3
10°	5216.5	5221.4	5213.2	5208.3	5203.4	5209.9	5201.7	5201.7	5196.8	5191.8	5190.2
12.5°	5394.1	5390.8	5387.5	5390.8	5385.8	5385.8	5380.9	5377.6	5376.0	5374.3	5371.0
15°	5532.2	5543.7	5543.7	5547.0	5543.7	5543.7	5537.1	5538.7	5535.5	5533.8	5535.5
17.5°	5620.9	5624.2	5632.4	5637.4	5637.4	5639.0	5635.7	5639.0	5635.7	5635.7	5642.3
20°	5632.4	5635.7	5644.0	5652.2	5657.1	5660.4	5660.4	5665.3	5668.6	5671.9	5680.1
22.5°	5586.4	5591.3	5601.2	5616.0	5624.2	5627.5	5634.1	5642.3	5650.5	5657.1	5668.6
25°	5538.7	5540.4	5550.2	5565.0	5574.9	5583.1	5594.6	5604.5	5616.0	5629.2	5642.3
27.5°	5512.4	5510.8	5519.0	5533.8	5542.0	5553.5	5563.4	5578.2	5591.3	5607.8	5619.3
30°	5535.5	5522.3	5523.9	5530.5	5537.1	5545.3	5556.8	5570.0	5584.8	5599.6	5612.7
32.5°	5637.4	5607.8	5588.1	5583.1	5584.8	5586.4	5593.0	5601.2	5612.7	5624.2	5629.2
35°	5857.7	5806.7	5780.4	5759.0	5741.0	5726.2	5729.4	5727.8	5727.8	5737.7	5726.2
37.5°	6276.9	6212.8	6184.8	6147.0	6125.7	6071.4	6056.6	6053.3	6031.9	6031.9	6007.3
40°	6934.5	6896.7	6875.3	6840.8	6737.2	6750.4	6676.4	6678.1	6617.2	6623.8	6581.1
42.5°	7870.0	7874.9	7848.6	7825.6	7745.0	7708.9	7639.8	7541.2	7463.9	7462.3	7376.8
45°	8951.7	9010.9	8927.1	8956.7	8886.0	8789.0	8708.4	8581.8	8461.8	8424.0	8336.9
47.5°	10082.8	10179.8	10115.7	10127.2	10092.7	9954.6	9846.1	9689.9	9533.7	9428.5	9375.9
50°	11291.2	11355.3	11353.7	11322.4	11306.0	11171.2	10996.9	10878.6	10763.5	10622.1	10576.0
52.5°	12386.1	12535.7	12636.0	12613.0	12565.3	12484.8	12330.2	12228.3	12059.0	12039.2	12059.0
55°	13558.3	13752.3	13854.2	13977.5	13979.2	13964.4	13900.3	13862.5	13704.6	13722.7	13699.7
57.5°	14668.0	14952.5	15108.6	15371.7	15462.1	15582.1	15537.7	15587.1	15491.7	15554.2	15536.1
60°	16172.3	16566.9	16826.7	17186.7	17354.4	17655.2	17714.4	17750.6	17803.2	17931.4	17859.1
62.5°	18064.6	18643.3	19182.5	19672.5	19833.6	20285.7	20359.7	20642.4	20657.2	20744.4	20584.9
65°	21162.0	21867.3	22460.7	23047.7	23386.3	23915.7	24129.4	24678.5	24510.9	24581.5	24241.2
67.5°	23190.7	24011.1	24806.8	25362.5	25924.7	26465.6	26855.2	27210.4	27207.1	27138.0	26835.5
69°	23011.5	23925.6	24709.8	25454.5	26046.4	26602.1	27070.6	27300.8	27381.3	27281.0	27065.7
70°	22391.7	23330.4	24290.6	24903.8	25548.2	26158.2	26641.5	26893.1	26948.9	26878.3	26692.5
72.5°	19527.8	20428.7	21487.5	22044.8	22824.1	23264.7	23930.5	24256.0	24313.6	24223.1	24101.5
75°	15240.2	15402.9	16481.4	16836.5	17402.1	17910.1	18324.4	18219.1	18513.4	18455.9	18409.9
77.5°	7179.5	6745.5	7444.2	7769.7	7598.7	7143.3	7805.9	7327.4	7644.7	8057.4	7952.2
80°	1183.7	1180.4	1211.7	1280.7	1198.5	1272.5	1270.8	1234.7	1238.0	1326.7	1280.7
82.5°	455.4	465.3	470.2	483.3	483.3	485.0	493.2	503.1	494.9	511.3	508.0
85°	246.6	263.0	248.2	236.7	245.0	249.9	256.5	264.7	256.5	281.1	268.0
87.5°	64.1	67.4	59.2	59.2	57.5	52.6	52.6	55.9	60.8	72.3	78.9
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: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7
2.5°	4872.9	4874.6	4876.2	4871.3	4868.0	4868.0	4866.3	4863.0	4861.4	4861.4	4861.4
5°	4928.8	4932.1	4923.9	4922.2	4918.9	4915.7	4915.7	4912.4	4914.0	4914.0	4905.8
7.5°	5040.6	5035.7	5025.8	5019.2	5025.8	5014.3	5009.4	5012.6	5009.4	5011.0	5007.7
10°	5190.2	5190.2	5178.7	5185.3	5177.1	5163.9	5168.8	5163.9	5160.6	5149.1	5155.7
12.5°	5376.0	5371.0	5364.5	5349.7	5344.7	5343.1	5328.3	5329.9	5325.0	5321.7	5316.8
15°	5538.7	5537.1	5522.3	5514.1	5512.4	5505.9	5499.3	5496.0	5487.8	5486.1	5482.8
17.5°	5647.2	5642.3	5635.7	5627.5	5627.5	5617.7	5614.4	5606.1	5604.5	5599.6	5594.6
20°	5683.4	5685.1	5678.5	5671.9	5668.6	5662.0	5657.1	5650.5	5647.2	5640.7	5635.7
22.5°	5675.2	5675.2	5668.6	5667.0	5660.4	5650.5	5644.0	5635.7	5627.5	5619.3	5609.4
25°	5648.9	5647.2	5642.3	5634.1	5625.9	5611.1	5597.9	5584.8	5573.3	5563.4	5548.6
27.5°	5625.9	5622.6	5612.7	5601.2	5584.8	5568.3	5543.7	5525.6	5510.8	5497.6	5481.2
30°	5617.7	5606.1	5591.3	5573.3	5553.5	5528.9	5502.6	5479.6	5463.1	5450.0	5443.4
32.5°	5627.5	5612.7	5589.7	5566.7	5542.0	5512.4	5486.1	5466.4	5451.6	5448.3	5448.3
35°	5717.9	5693.3	5662.0	5629.2	5597.9	5573.3	5555.2	5553.5	5543.7	5555.2	5573.3
37.5°	5982.6	5961.3	5913.6	5870.8	5849.5	5838.0	5821.5	5824.8	5801.8	5838.0	5867.5
40°	6544.9	6518.6	6462.7	6428.2	6385.4	6344.3	6377.2	6367.3	6383.8	6377.2	6408.4
42.5°	7365.3	7339.0	7250.2	7237.0	7218.9	7202.5	7202.5	7189.3	7182.8	7205.8	7179.5
45°	8363.2	8310.6	8277.7	8317.2	8262.9	8279.3	8336.9	8259.6	8277.7	8170.8	8072.2
47.5°	9398.9	9394.0	9385.8	9433.4	9441.7	9466.3	9497.6	9418.7	9275.6	9195.1	8994.5
50°	10590.8	10641.8	10661.5	10707.6	10727.3	10745.4	10696.1	10579.3	10337.7	10123.9	9887.2
52.5°	12039.2	11950.5	12072.1	12116.5	12096.8	12024.4	11846.9	11703.9	11370.1	11062.7	10696.1
55°	13726.0	13747.4	13661.9	13627.4	13560.0	13359.4	13114.4	12792.2	12369.7	11968.5	11504.9
57.5°	15444.0	15435.8	15302.6	15115.2	14886.7	14645.0	14280.0	13818.1	13324.9	12785.6	12225.0
60°	17533.6	17525.4	17255.7	16935.2	16609.6	16220.0	15647.9	15092.2	14431.3	13722.7	13055.2
62.5°	20279.1	19925.7	19661.0	19182.5	18679.5	18169.8	17395.5	16657.3	15774.5	14880.1	14100.9
65°	23797.3	23215.4	22914.5	22220.7	21441.4	20645.7	19858.2	18888.3	17699.6	16617.9	15666.0
67.5°	26399.8	25867.2	25316.4	24624.3	23769.4	22881.6	21803.1	20581.6	19231.9	18018.6	16981.2
69°	26628.4	26130.2	25469.3	24775.5	23966.7	23001.6	21824.5	20456.7	19088.8	17860.7	16839.8
70°	26281.5	25752.1	25056.7	24334.9	23430.7	22519.9	21286.9	19861.5	18492.1	17260.7	16264.4
72.5°	23693.8	23177.5	22437.7	21574.6	20647.4	19868.1	18697.6	17211.4	15721.9	14584.2	13808.2
75°	18016.9	17903.5	17379.0	16876.0	16146.0	15276.3	14206.1	13206.5	11985.0	10781.6	10058.2
77.5°	7687.5	7948.9	8221.8	8261.3	8287.6	8019.6	7853.5	7602.0	6784.9	6413.4	6030.3
80°	1420.4	1269.2	1354.7	1364.5	1420.4	1450.0	1558.5	1847.9	1880.8	1951.5	2038.6
82.5°	504.7	512.9	526.1	531.0	536.0	555.7	629.7	754.6	868.0	1016.0	1213.3
85°	286.1	291.0	302.5	312.4	318.9	338.7	379.8	453.8	565.5	734.9	996.3
87.5°	87.1	98.6	105.2	118.4	123.3	126.6	144.7	194.0	249.9	369.9	539.2
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: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7	4864.7
2.5°	4861.4	4859.8	4856.5	4853.2	4854.8	4851.5	4841.7	4838.4	4826.9	4818.7	4812.1
5°	4905.8	4904.1	4897.6	4899.2	4897.6	4881.1	4869.6	4849.9	4838.4	4820.3	4813.7
7.5°	4997.9	4996.2	4984.7	4989.6	4986.3	4961.7	4942.0	4910.7	4894.3	4871.3	4853.2
10°	5136.0	5136.0	5122.8	5124.4	5124.4	5091.6	5057.0	5004.4	4966.6	4930.4	4899.2
12.5°	5303.6	5297.1	5295.4	5287.2	5280.6	5244.5	5191.8	5121.2	5050.5	4991.3	4948.5
15°	5473.0	5463.1	5458.2	5448.3	5440.1	5407.2	5336.5	5249.4	5154.0	5058.7	4988.0
17.5°	5583.1	5576.6	5566.7	5563.4	5551.9	5519.0	5469.7	5382.6	5264.2	5131.0	5024.2
20°	5624.2	5612.7	5606.1	5599.6	5593.0	5570.0	5570.0	5514.1	5382.6	5195.1	5032.4
22.5°	5597.9	5591.3	5581.5	5576.6	5570.0	5573.3	5637.4	5629.2	5477.9	5209.9	4973.2
25°	5537.1	5528.9	5520.7	5520.7	5519.0	5553.5	5708.1	5729.4	5505.9	5137.6	4843.3
27.5°	5474.6	5463.1	5466.4	5468.0	5476.3	5550.2	5785.3	5755.8	5430.2	4963.3	4619.7
30°	5436.8	5436.8	5445.0	5458.2	5474.6	5604.5	5846.2	5696.6	5234.6	4700.3	4323.8
32.5°	5453.2	5469.7	5487.8	5520.7	5545.3	5724.5	5867.5	5543.7	4950.2	4374.8	4014.7
35°	5599.6	5619.3	5653.8	5704.8	5734.4	5897.1	5867.5	5320.1	4619.7	4095.3	3695.8
37.5°	5918.5	5938.2	5979.3	6018.8	6048.4	6114.1	5842.9	5035.7	4343.5	3805.9	3409.7
40°	6431.4	6459.4	6489.0	6482.4	6462.7	6398.6	5793.6	4771.0	4088.7	3552.8	3128.6
42.5°	7153.2	7126.9	7123.6	7059.5	6993.7	6719.2	5757.4	4598.4	3870.0	3286.4	2849.1
45°	7986.7	7879.8	7769.7	7684.2	7583.9	7071.0	5747.5	4458.6	3628.4	2990.5	2545.0
47.5°	8825.2	8654.2	8440.5	8307.3	8144.5	7445.8	5777.1	4271.2	3317.7	2668.3	2260.5
50°	9647.2	9367.7	9103.0	8943.5	8759.4	7876.6	5824.8	3955.5	2946.1	2375.6	2000.8
52.5°	10408.4	10048.3	9777.1	9589.6	9364.4	8378.0	5782.1	3541.2	2623.9	2094.5	1754.2
55°	11131.7	10733.9	10452.7	10255.5	9990.8	8881.1	5473.0	3164.8	2316.4	1819.9	1476.3
57.5°	11764.7	11383.3	11090.6	10822.7	10599.1	9318.4	4863.0	2854.0	2020.5	1505.9	1175.5
60°	12504.5	12075.4	11728.5	11442.5	11179.4	9543.6	4179.1	2577.8	1704.9	1165.6	850.0
62.5°	13502.4	13009.2	12608.1	12280.9	11937.3	9592.9	3712.2	2301.6	1353.0	843.4	618.2
65°	14982.1	14373.8	13872.3	13421.9	12956.6	9389.1	3482.1	2000.8	1006.1	626.4	517.9
67.5°	16157.5	15526.2	14945.9	14367.2	13772.0	9010.9	3431.1	1722.9	772.7	532.7	465.3
69°	16014.5	15412.8	14880.1	14253.7	13594.5	8535.8	3380.1	1616.1	705.3	494.9	440.6
70°	15463.8	14893.3	14352.4	13842.7	13035.5	8006.4	3245.3	1556.9	679.0	476.8	422.5
72.5°	13066.8	12405.9	11881.4	11246.8	10396.8	5949.7	2461.1	1259.3	623.1	435.7	381.4
75°	9530.4	8983.0	8460.2	7758.2	6931.2	3442.6	1532.2	720.1	457.0	394.6	345.2
77.5°	5565.0	5441.7	4937.0	4475.1	3656.3	1752.5	879.6	430.7	355.1	358.4	304.1
80°	2094.5	2230.9	2281.9	2122.4	1961.3	1210.0	639.5	350.2	309.1	353.5	258.1
82.5°	1527.3	1772.3	1801.9	1726.2	1606.2	1127.8	511.3	281.1	251.5	379.8	221.9
85°	1274.1	1410.6	1432.0	1353.0	1313.6	955.2	356.8	197.3	184.1	272.9	166.0
87.5°	644.5	679.0	697.1	631.3	634.6	445.5	143.0	83.8	100.3	116.7	92.1
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: P157939

CATALOG NUMBER: VTS-E09-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4864.7	4864.7
2.5°	4797.3	4807.1
5°	4803.9	4803.9
7.5°	4841.7	4841.7
10°	4882.8	4884.4
12.5°	4920.6	4918.9
15°	4950.2	4945.2
17.5°	4968.3	4963.3
20°	4950.2	4942.0
22.5°	4858.1	4835.1
25°	4690.4	4660.8
27.5°	4468.5	4448.7
30°	4179.1	4149.5
32.5°	3840.5	3825.7
35°	3516.6	3498.5
37.5°	3220.7	3215.7
40°	2970.8	2944.5
42.5°	2678.1	2666.6
45°	2380.6	2374.0
47.5°	2101.1	2094.5
50°	1843.0	1829.8
52.5°	1589.8	1568.4
55°	1308.6	1293.9
57.5°	1004.5	991.4
60°	706.9	692.1
62.5°	503.1	486.6
65°	419.2	406.1
67.5°	379.8	365.0
69°	361.7	348.5
70°	350.2	340.3
72.5°	325.5	318.9
75°	297.6	292.6
77.5°	261.4	253.2
80°	218.7	210.4
82.5°	184.1	175.9
85°	123.3	111.8
87.5°	55.9	49.3
90°	0.0	0.0

(END OF REPORT)