

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: P157959

Luminaire Tested: **VTS-E11-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157959
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-E11-LED-E1-RW-7030
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (231) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31300.1 lumens
Efficiency: N/A
Efficacy: 116.1 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

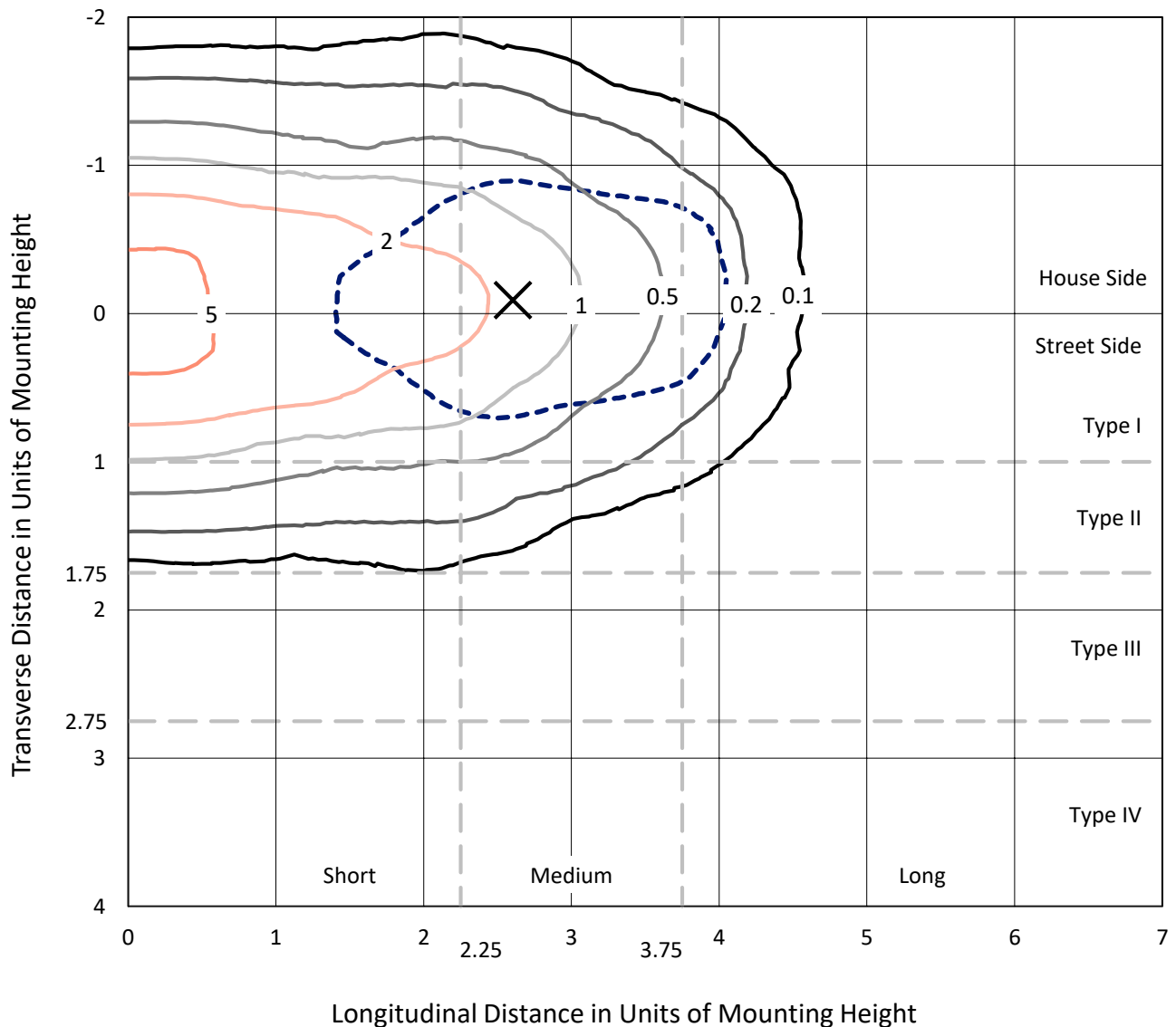
Input Watts (W): 269.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

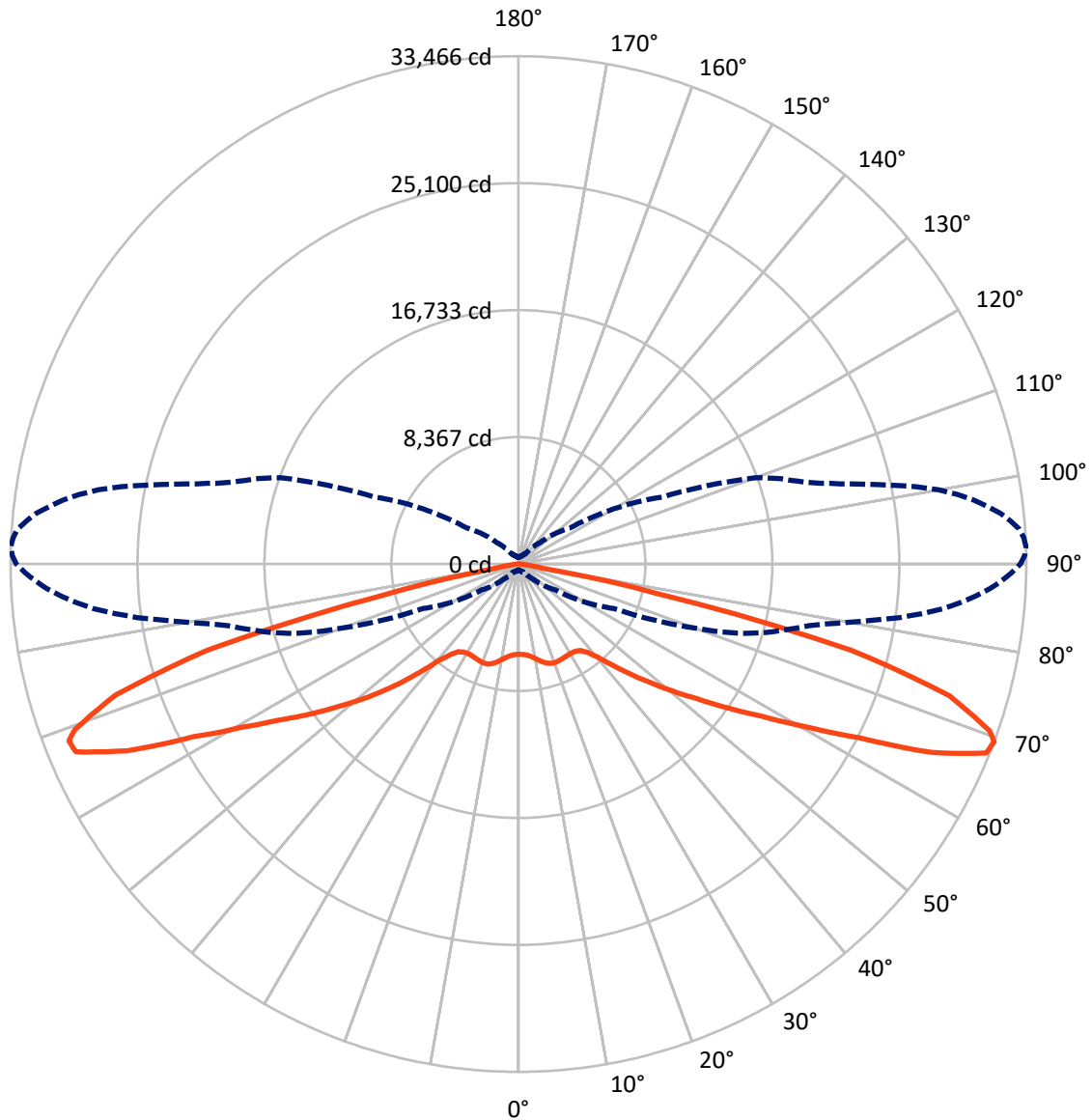


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type I - Short - Full Cutoff

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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
House Side	Lumens	16600.1	0.0	16600.1
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	14700.0	0.0	14700.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	31300.1	0.0	31300.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.8	1.9
10°-20°	1837.9	5.9
20°-30°	2981.8	9.5
30°-40°	3716.2	11.9
40°-50°	4627.0	14.8
50°-60°	5706.2	18.2
60°-70°	7086.8	22.6
70°-80°	4354.4	13.9
80°-90°	408.1	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°	31300.1	100.0
0°-180°	31300.1	100.0



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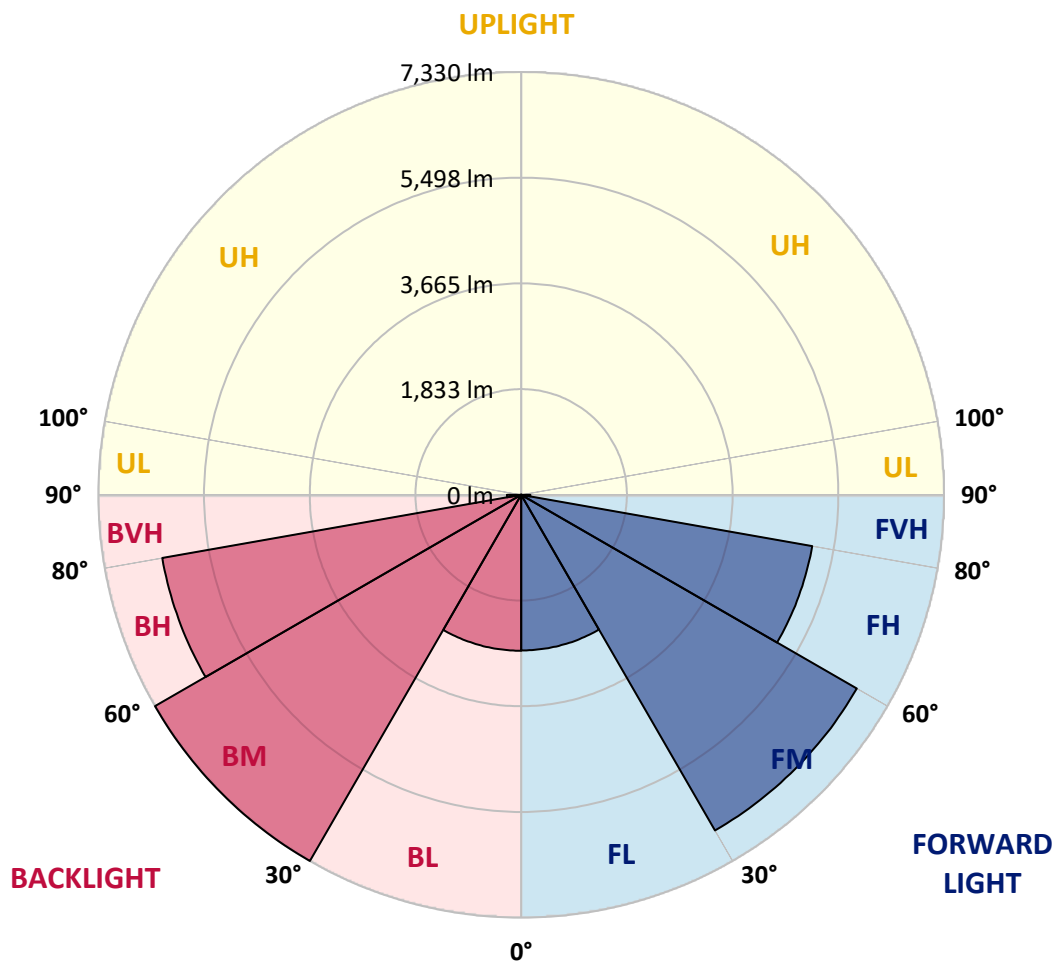
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2697.9	8.6			
FM (30°-60°)	6718.9	21.5			
FH (60°-80°)	5123.4	16.4			G3/7500
FVH (80°-90°)	159.8	0.5			G2/225
BL (0°-30°)	2703.6	8.6	B4/5000		
BM (30°-60°)	7330.4	23.4	B4/8500		
BH (60°-80°)	6317.7	20.2	B5		G5
BVH (80°-90°)	248.3	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°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	6040.2	6024.1	6038.2	6040.2	6038.2	6038.2	6020.1	6016.1	5991.9	5998.0	5996.0
5°	6122.6	6116.5	6126.6	6130.6	6134.6	6126.6	6112.5	6106.5	6090.4	6084.4	6082.4
7.5°	6198.9	6188.9	6204.9	6219.0	6229.0	6231.1	6233.1	6223.0	6223.0	6215.0	6215.0
10°	6263.2	6255.2	6281.3	6299.4	6331.5	6349.6	6369.7	6383.8	6391.8	6393.8	6391.8
12.5°	6291.3	6285.3	6327.5	6381.8	6442.0	6484.2	6534.5	6570.6	6580.7	6578.7	6588.7
15°	6243.1	6247.1	6311.4	6417.9	6546.5	6653.0	6723.4	6753.5	6761.5	6765.6	6767.6
17.5°	6112.5	6120.5	6213.0	6385.8	6610.8	6803.7	6908.2	6908.2	6892.1	6892.1	6890.1
20°	5903.5	5911.6	6032.1	6281.3	6612.8	6908.2	7056.9	7026.8	6966.5	6954.4	6942.4
22.5°	5614.2	5646.3	5779.0	6068.3	6526.4	6938.4	7149.3	7105.1	7010.7	6984.6	6966.5
25°	5286.7	5282.6	5441.4	5766.9	6317.5	6866.0	7175.5	7167.4	7067.0	7038.8	7006.7
27.5°	4912.9	4925.0	5071.7	5401.2	5998.0	6657.0	7131.3	7237.8	7155.4	7127.2	7097.1
30°	4529.1	4541.2	4679.8	5063.6	5634.3	6357.6	7040.8	7306.1	7273.9	7251.8	7231.7
32.5°	4143.3	4147.3	4312.1	4724.0	5326.8	6000.0	6904.2	7368.4	7412.6	7402.5	7394.5
35°	3781.6	3785.7	3964.5	4382.4	5023.4	5694.6	6739.4	7458.8	7601.4	7613.5	7621.5
37.5°	3430.0	3436.0	3618.9	4056.9	4724.0	5463.5	6556.6	7597.4	7866.7	7910.9	7918.9
40°	3080.4	3086.4	3261.2	3725.4	4420.6	5260.5	6415.9	7792.3	8224.4	8284.6	8346.9
42.5°	2746.8	2768.9	2917.6	3361.7	4083.0	5009.4	6355.6	8029.4	8648.3	8742.8	8813.1
45°	2435.4	2437.4	2606.2	3022.1	3683.2	4669.8	6315.5	8298.7	9122.5	9265.2	9361.7
47.5°	2101.8	2125.9	2302.7	2706.6	3309.4	4249.8	6186.9	8614.2	9639.0	9805.7	10000.6
50°	1778.3	1812.5	1983.2	2383.1	2967.8	3815.8	5841.2	8983.9	10219.7	10436.7	10661.7
52.5°	1466.8	1464.8	1645.7	2061.6	2624.2	3448.1	5280.6	9371.7	10890.8	11123.9	11367.0
55°	1109.2	1109.2	1288.0	1667.8	2252.5	3120.6	4679.8	9612.8	11513.7	11795.0	12060.2
57.5°	761.6	781.6	950.4	1278.0	1864.7	2821.2	4219.7	9474.2	11989.9	12339.5	12655.0
60°	564.6	584.7	709.3	918.3	1458.8	2467.5	3874.1	8821.1	12277.3	12741.4	13151.3
62.5°	488.3	502.3	620.9	735.4	1050.9	2091.8	3568.6	7991.3	12691.2	13326.1	13896.8
65°	436.0	450.1	568.7	635.0	821.8	1681.8	3397.8	7517.1	13185.5	14156.0	14983.9
67.5°	403.9	420.0	520.4	568.7	717.3	1521.1	3265.2	7406.5	13181.5	14359.0	15415.9
69°	387.8	399.9	482.2	534.5	693.2	1472.9	2977.9	6926.3	12311.4	13575.3	14636.3
70°	377.8	389.8	460.1	512.4	685.2	1386.5	2712.7	6291.3	11320.8	12592.7	13669.7
72.5°	345.6	357.7	409.9	458.1	570.7	926.3	1890.8	4026.8	8089.7	8998.0	10229.7
75°	305.4	319.5	359.7	399.9	432.0	536.5	1091.1	2089.7	4625.6	5314.8	6411.9
77.5°	249.2	263.2	305.4	369.7	365.7	407.9	709.3	1284.0	2166.1	2686.5	3092.4
80°	205.0	215.0	251.2	373.7	299.4	341.6	574.7	1052.9	1525.1	1685.9	1782.3
82.5°	136.6	150.7	194.9	293.4	229.1	243.1	430.0	984.6	1290.0	1414.6	1531.1
85°	64.3	70.3	118.6	156.7	138.6	130.6	245.1	695.2	960.5	1018.8	1063.0
87.5°	0.0	0.0	6.0	12.1	18.1	18.1	44.2	146.7	269.3	325.5	321.5
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	5987.9	5989.9	5987.9	5987.9	5985.9	5981.9	5981.9	5977.9	5979.9	5977.9	5981.9
5°	6080.4	6080.4	6074.3	6070.3	6076.3	6070.3	6072.3	6062.3	6062.3	6056.2	6048.2
7.5°	6213.0	6213.0	6215.0	6202.9	6211.0	6213.0	6206.9	6202.9	6198.9	6188.9	6190.9
10°	6389.8	6389.8	6395.8	6379.8	6387.8	6391.8	6393.8	6393.8	6389.8	6371.7	6373.7
12.5°	6586.7	6582.7	6584.7	6576.7	6584.7	6588.7	6592.7	6588.7	6588.7	6584.7	6582.7
15°	6765.6	6763.5	6767.6	6761.5	6763.5	6767.6	6779.6	6777.6	6775.6	6763.5	6763.5
17.5°	6888.1	6882.1	6878.1	6876.1	6876.1	6874.1	6876.1	6876.1	6870.0	6868.0	6868.0
20°	6934.3	6918.3	6908.2	6902.2	6894.2	6890.1	6886.1	6888.1	6884.1	6878.1	6880.1
22.5°	6942.4	6920.3	6900.2	6882.1	6866.0	6856.0	6845.9	6841.9	6831.9	6825.8	6825.8
25°	6980.6	6946.4	6914.2	6884.1	6860.0	6837.9	6815.8	6799.7	6787.7	6773.6	6769.6
27.5°	7064.9	7028.8	6990.6	6952.4	6920.3	6876.1	6845.9	6813.8	6785.6	6763.5	6747.5
30°	7195.6	7159.4	7121.2	7077.0	7034.8	6988.6	6938.4	6900.2	6860.0	6815.8	6791.7
32.5°	7368.4	7344.3	7306.1	7263.9	7225.7	7177.5	7117.2	7058.9	7020.7	6968.5	6930.3
35°	7615.5	7587.4	7575.3	7557.2	7519.1	7488.9	7422.6	7368.4	7332.2	7259.9	7231.7
37.5°	7953.1	7951.1	7961.1	7955.1	7961.1	7922.9	7892.8	7890.8	7838.6	7768.2	7699.9
40°	8413.2	8437.3	8491.6	8529.8	8565.9	8570.0	8612.2	8568.0	8574.0	8563.9	8493.6
42.5°	8937.7	9020.1	9084.4	9196.9	9283.3	9363.7	9417.9	9492.3	9548.5	9598.8	9610.8
45°	9522.4	9645.0	9793.7	9894.1	10062.9	10197.6	10382.4	10525.1	10673.8	10820.5	10872.7
47.5°	10157.4	10310.1	10474.8	10661.7	10874.7	11085.7	11371.0	11590.1	11829.2	12028.1	12204.9
50°	10858.6	11017.4	11238.4	11453.4	11746.8	11989.9	12363.7	12651.0	13036.8	13302.0	13531.1
52.5°	11590.1	11789.0	12036.1	12273.2	12572.6	12884.1	13300.0	13724.0	14188.2	14590.0	14923.6
55°	12305.4	12550.5	12787.6	13064.9	13396.5	13758.2	14228.4	14787.0	15365.7	15825.8	16267.9
57.5°	12942.4	13225.7	13505.0	13786.3	14125.9	14545.8	15074.3	15677.1	16340.2	16953.1	17559.9
60°	13533.1	13872.7	14214.3	14565.9	14955.7	15474.2	16109.1	16850.6	17708.6	18546.5	19340.2
62.5°	14467.5	14913.5	15337.5	15791.6	16261.8	16870.7	17620.2	18592.7	19577.3	20624.2	21438.0
65°	15733.4	16360.3	16914.9	17503.6	18112.5	18926.3	19822.4	20985.9	22396.4	23469.5	24775.5
67.5°	16362.3	17188.2	17901.5	18556.5	19310.1	20131.9	21196.9	22573.3	24078.3	25633.5	27090.3
69°	15622.9	16474.8	17264.5	17997.9	18759.5	19557.2	20670.4	22083.0	23674.4	25356.2	26778.9
70°	14664.4	15516.4	16358.3	17194.2	17889.4	18667.1	19784.3	21241.1	22830.5	24578.6	25989.2
72.5°	11234.4	12259.2	13020.7	13804.4	14610.1	15269.2	16559.2	17786.9	19442.7	21216.9	22770.2
75°	7187.5	8129.9	8961.8	9628.9	10416.6	11206.3	12158.7	13523.1	14559.9	16016.7	17276.6
77.5°	3693.2	3972.5	4774.3	5013.4	5559.9	5989.9	6514.4	6856.0	7699.9	7878.7	8622.2
80°	1750.2	1577.4	1484.9	1400.5	1424.6	1414.6	1372.4	1316.1	1386.5	1356.3	1344.3
82.5°	1525.1	1360.3	1085.1	922.3	797.7	677.2	582.7	534.5	540.5	556.6	562.6
85°	1069.0	1004.7	783.7	594.8	464.2	359.7	289.3	277.3	285.3	307.4	299.4
87.5°	309.4	323.5	285.3	198.9	138.6	100.5	78.4	88.4	84.4	82.4	86.4
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	5981.9	5979.9	5973.9	5967.8	5967.8	5963.8	5967.8	5969.8	5967.8	5967.8	5963.8
5°	6050.2	6052.2	6058.3	6046.2	6044.2	6046.2	6038.2	6036.1	6030.1	6036.1	6028.1
7.5°	6180.8	6186.9	6186.9	6178.8	6176.8	6182.8	6170.8	6166.8	6160.7	6158.7	6156.7
10°	6375.7	6381.8	6371.7	6365.7	6359.7	6367.7	6357.6	6357.6	6351.6	6345.6	6343.6
12.5°	6592.7	6588.7	6584.7	6588.7	6582.7	6582.7	6576.7	6572.7	6570.6	6568.6	6564.6
15°	6761.5	6775.6	6775.6	6779.6	6775.6	6775.6	6767.6	6769.6	6765.6	6763.5	6765.6
17.5°	6870.0	6874.1	6884.1	6890.1	6890.1	6892.1	6888.1	6892.1	6888.1	6888.1	6896.2
20°	6884.1	6888.1	6898.2	6908.2	6914.2	6918.3	6918.3	6924.3	6928.3	6932.3	6942.4
22.5°	6827.8	6833.9	6845.9	6864.0	6874.1	6878.1	6886.1	6896.2	6906.2	6914.2	6928.3
25°	6769.6	6771.6	6783.6	6801.7	6813.8	6823.8	6837.9	6849.9	6864.0	6880.1	6896.2
27.5°	6737.4	6735.4	6745.5	6763.5	6773.6	6787.7	6799.7	6817.8	6833.9	6854.0	6868.0
30°	6765.6	6749.5	6751.5	6759.5	6767.6	6777.6	6791.7	6807.7	6825.8	6843.9	6860.0
32.5°	6890.1	6854.0	6829.9	6823.8	6825.8	6827.8	6835.9	6845.9	6860.0	6874.1	6880.1
35°	7159.4	7097.1	7064.9	7038.8	7016.7	6998.6	7002.7	7000.6	7000.6	7012.7	6998.6
37.5°	7671.8	7593.4	7559.3	7513.0	7486.9	7420.6	7402.5	7398.5	7372.4	7372.4	7342.2
40°	8475.5	8429.3	8403.2	8361.0	8234.4	8250.5	8160.1	8162.1	8087.7	8095.8	8043.5
42.5°	9618.9	9624.9	9592.7	9564.6	9466.1	9421.9	9337.5	9217.0	9122.5	9120.5	9016.0
45°	10941.0	11013.4	10910.9	10947.1	10860.6	10742.1	10643.6	10488.9	10342.2	10296.0	10189.5
47.5°	12323.5	12442.0	12363.7	12377.7	12335.5	12166.7	12034.1	11843.2	11652.3	11523.7	11459.4
50°	13800.4	13878.7	13876.7	13838.5	13818.4	13653.7	13440.7	13296.0	13155.4	12982.5	12926.3
52.5°	15138.6	15321.5	15444.0	15415.9	15357.6	15259.2	15070.3	14945.7	14738.7	14714.6	14738.7
55°	16571.3	16808.4	16933.0	17083.7	17085.7	17067.6	16989.2	16943.0	16750.1	16772.2	16744.1
57.5°	17927.6	18275.2	18466.1	18787.6	18898.1	19044.8	18990.6	19050.8	18934.3	19010.7	18988.6
60°	19766.2	20248.4	20565.9	21006.0	21210.9	21578.6	21651.0	21695.2	21759.5	21916.2	21827.8
62.5°	22079.0	22786.3	23445.3	24044.1	24241.0	24793.6	24884.0	25229.7	25247.7	25354.2	25159.3
65°	25864.6	26726.6	27452.0	28169.4	28583.3	29230.3	29491.5	30162.7	29957.7	30044.1	29628.2
67.5°	28344.2	29346.9	30319.4	30998.6	31685.8	32346.9	32823.1	33257.1	33253.1	33168.7	32799.0
69°	28125.2	29242.4	30200.8	31111.1	31834.5	32513.6	33086.3	33367.6	33466.1	33343.5	33080.3
70°	27367.6	28515.0	29688.5	30437.9	31225.6	31971.1	32561.9	32869.3	32937.6	32851.2	32624.1
72.5°	23867.3	24968.4	26262.5	26943.7	27896.1	28434.6	29248.4	29646.3	29716.6	29606.1	29457.4
75°	18626.9	18825.8	20143.9	20578.0	21269.2	21890.1	22396.4	22267.8	22627.5	22557.2	22500.9
77.5°	8774.9	8244.4	9098.4	9496.3	9287.3	8730.7	9540.5	8955.8	9343.6	9847.9	9719.3
80°	1446.7	1442.7	1480.9	1565.3	1464.8	1555.3	1553.2	1509.0	1513.1	1621.6	1565.3
82.5°	556.6	568.7	574.7	590.8	590.8	592.8	602.8	614.9	604.8	624.9	620.9
85°	301.4	321.5	303.4	289.3	299.4	305.4	313.5	323.5	313.5	343.6	327.5
87.5°	78.4	82.4	72.3	72.3	70.3	64.3	64.3	68.3	74.3	88.4	96.4
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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CATALOG NUMBER: VTS-E11-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	5955.8	5957.8	5959.8	5953.8	5949.7	5949.7	5947.7	5943.7	5941.7	5941.7	5941.7
5°	6024.1	6028.1	6018.1	6016.1	6012.0	6008.0	6008.0	6004.0	6006.0	6006.0	5996.0
7.5°	6160.7	6154.7	6142.6	6134.6	6142.6	6128.6	6122.6	6126.6	6122.6	6124.6	6120.5
10°	6343.6	6343.6	6329.5	6337.6	6327.5	6311.4	6317.5	6311.4	6307.4	6293.3	6301.4
12.5°	6570.6	6564.6	6556.6	6538.5	6532.5	6530.5	6512.4	6514.4	6508.4	6504.3	6498.3
15°	6769.6	6767.6	6749.5	6739.4	6737.4	6729.4	6721.3	6717.3	6707.3	6705.3	6701.3
17.5°	6902.2	6896.2	6888.1	6878.1	6878.1	6866.0	6862.0	6852.0	6849.9	6843.9	6837.9
20°	6946.4	6948.4	6940.4	6932.3	6928.3	6920.3	6914.2	6906.2	6902.2	6894.2	6888.1
22.5°	6936.3	6936.3	6928.3	6926.3	6918.3	6906.2	6898.2	6888.1	6878.1	6868.0	6856.0
25°	6904.2	6902.2	6896.2	6886.1	6876.1	6858.0	6841.9	6825.8	6811.8	6799.7	6781.6
27.5°	6876.1	6872.0	6860.0	6845.9	6825.8	6805.7	6775.6	6753.5	6735.4	6719.3	6699.2
30°	6866.0	6852.0	6833.9	6811.8	6787.7	6757.5	6725.4	6697.2	6677.1	6661.1	6653.0
32.5°	6878.1	6860.0	6831.9	6803.7	6773.6	6737.4	6705.3	6681.2	6663.1	6659.1	6659.1
35°	6988.6	6958.5	6920.3	6880.1	6841.9	6811.8	6789.7	6787.7	6775.6	6789.7	6811.8
37.5°	7312.1	7286.0	7227.7	7175.5	7149.3	7135.3	7115.2	7119.2	7091.1	7135.3	7171.4
40°	7999.3	7967.2	7898.8	7856.6	7804.4	7754.2	7794.3	7782.3	7802.4	7794.3	7832.5
42.5°	9002.0	8969.8	8861.3	8845.3	8823.1	8803.1	8803.1	8787.0	8778.9	8807.1	8774.9
45°	10221.7	10157.4	10117.2	10165.4	10099.1	10119.2	10189.5	10095.1	10117.2	9986.6	9866.0
47.5°	11487.6	11481.5	11471.5	11529.8	11539.8	11570.0	11608.1	11511.7	11336.9	11238.4	10993.3
50°	12944.4	13006.7	13030.8	13087.0	13111.1	13133.2	13073.0	12930.3	12634.9	12373.7	12084.4
52.5°	14714.6	14606.1	14754.8	14809.1	14784.9	14696.5	14479.5	14304.7	13896.8	13521.1	13073.0
55°	16776.2	16802.4	16697.9	16655.7	16573.3	16328.1	16028.8	15634.9	15118.5	14628.2	14061.6
57.5°	18876.0	18866.0	18703.2	18474.2	18194.9	17899.5	17453.4	16888.8	16285.9	15626.9	14941.7
60°	21429.9	21419.9	21090.4	20698.5	20300.7	19824.5	19125.2	18446.0	17638.3	16772.2	15956.4
62.5°	24785.6	24353.6	24030.1	23445.3	22830.5	22207.6	21261.2	20358.9	19279.9	18186.8	17234.4
65°	29085.6	28374.3	28006.6	27158.7	26206.2	25233.7	24271.2	23085.7	21632.9	20310.7	19147.3
67.5°	32266.5	31615.4	30942.3	30096.4	29051.5	27966.4	26648.3	25155.3	23505.6	22022.7	20754.8
69°	32545.8	31936.9	31129.2	30281.2	29292.6	28113.1	26674.4	25002.6	23330.8	21829.8	20582.0
70°	32121.8	31474.8	30624.8	29742.7	28637.6	27524.4	26017.3	24275.2	22601.4	21096.4	19878.7
72.5°	28959.1	28328.1	27423.9	26369.0	25235.7	24283.2	22852.6	21036.1	19215.6	17825.1	16876.7
75°	22020.7	21882.0	21241.1	20626.2	19734.0	18671.1	17363.0	16141.3	14648.3	13177.5	12293.3
77.5°	9395.8	9715.3	10048.9	10097.1	10129.2	9801.7	9598.8	9291.3	8292.7	7838.6	7370.4
80°	1736.1	1551.2	1655.7	1667.8	1736.1	1772.3	1904.9	2258.5	2298.7	2385.1	2491.6
82.5°	616.9	626.9	643.0	649.0	655.1	679.2	769.6	922.3	1060.9	1241.8	1482.9
85°	349.6	355.7	369.7	381.8	389.8	413.9	464.2	554.6	691.2	898.2	1217.7
87.5°	106.5	120.6	128.6	144.7	150.7	154.7	176.8	237.1	305.4	452.1	659.1
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-E11-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	5941.7	5939.7	5935.7	5931.7	5933.7	5929.7	5917.6	5913.6	5899.5	5889.5	5881.4
5°	5996.0	5994.0	5985.9	5987.9	5985.9	5965.8	5951.8	5927.6	5913.6	5891.5	5883.4
7.5°	6108.5	6106.5	6092.4	6098.4	6094.4	6064.3	6040.2	6002.0	5981.9	5953.8	5931.7
10°	6277.3	6277.3	6261.2	6263.2	6263.2	6223.0	6180.8	6116.5	6070.3	6026.1	5987.9
12.5°	6482.2	6474.2	6472.2	6462.1	6454.1	6409.9	6345.6	6259.2	6172.8	6100.4	6048.2
15°	6689.2	6677.1	6671.1	6659.1	6649.0	6608.8	6522.4	6415.9	6299.4	6182.8	6096.4
17.5°	6823.8	6815.8	6803.7	6799.7	6785.6	6745.5	6685.2	6578.7	6434.0	6271.2	6140.6
20°	6874.1	6860.0	6852.0	6843.9	6835.9	6807.7	6807.7	6739.4	6578.7	6349.6	6150.7
22.5°	6841.9	6833.9	6821.8	6815.8	6807.7	6811.8	6890.1	6880.1	6695.2	6367.7	6078.3
25°	6767.6	6757.5	6747.5	6747.5	6745.5	6787.7	6976.5	7002.7	6729.4	6279.3	5919.6
27.5°	6691.2	6677.1	6681.2	6683.2	6693.2	6783.6	7071.0	7034.8	6637.0	6066.3	5646.3
30°	6645.0	6645.0	6655.0	6671.1	6691.2	6849.9	7145.3	6962.5	6397.8	5744.8	5284.6
32.5°	6665.1	6685.2	6707.3	6747.5	6777.6	6996.6	7171.4	6775.6	6050.2	5346.9	4906.9
35°	6843.9	6868.0	6910.2	6972.5	7008.7	7207.6	7171.4	6502.3	5646.3	5005.3	4517.1
37.5°	7233.7	7257.8	7308.1	7356.3	7392.5	7472.8	7141.3	6154.7	5308.8	4651.7	4167.4
40°	7860.7	7894.8	7931.0	7922.9	7898.8	7820.5	7081.0	5831.2	4997.3	4342.3	3823.8
42.5°	8742.8	8710.6	8706.6	8628.2	8547.9	8212.3	7036.8	5620.2	4730.1	4016.7	3482.2
45°	9761.5	9630.9	9496.3	9391.8	9269.2	8642.3	7024.8	5449.4	4434.7	3655.0	3110.5
47.5°	10786.3	10577.3	10316.1	10153.4	9954.4	9100.4	7060.9	5220.3	4054.9	3261.2	2762.9
50°	11791.0	11449.4	11125.9	10931.0	10705.9	9626.9	7119.2	4834.5	3600.8	2903.5	2445.4
52.5°	12721.3	12281.3	11949.7	11720.7	11445.4	10239.8	7067.0	4328.2	3207.0	2559.9	2144.0
55°	13605.4	13119.2	12775.6	12534.5	12210.9	10854.6	6689.2	3868.0	2831.2	2224.4	1804.4
57.5°	14379.1	13912.9	13555.2	13227.7	12954.4	11389.1	5943.7	3488.3	2469.5	1840.6	1436.7
60°	15283.3	14758.8	14334.9	13985.2	13663.7	11664.4	5107.8	3150.7	2083.7	1424.6	1038.8
62.5°	16503.0	15900.2	15409.9	15010.0	14590.0	11724.7	4537.2	2813.1	1653.7	1030.8	755.5
65°	18311.4	17567.9	16955.1	16404.5	15835.9	11475.5	4255.8	2445.4	1229.7	765.6	633.0
67.5°	19748.1	18976.5	18267.2	17559.9	16832.5	11013.4	4193.6	2105.8	944.4	651.0	568.7
69°	19573.3	18837.9	18186.8	17421.2	16615.5	10432.7	4131.3	1975.2	862.0	604.8	538.5
70°	18900.1	18202.9	17541.8	16918.9	15932.3	9785.6	3966.5	1902.9	829.9	582.7	516.4
72.5°	15970.5	15162.7	14521.7	13746.1	12707.3	7271.9	3008.0	1539.2	761.6	532.5	466.2
75°	11648.3	10979.2	10340.2	9482.2	8471.5	4207.6	1872.7	880.1	558.6	482.2	422.0
77.5°	6801.7	6651.0	6034.1	5469.5	4468.8	2142.0	1075.0	526.5	434.0	438.0	371.7
80°	2559.9	2726.7	2789.0	2594.1	2397.2	1478.9	781.6	428.0	377.8	432.0	315.5
82.5°	1866.7	2166.1	2202.3	2109.8	1963.2	1378.4	624.9	343.6	307.4	464.2	271.3
85°	1557.3	1724.0	1750.2	1653.7	1605.5	1167.4	436.0	241.1	225.0	333.6	202.9
87.5°	787.7	829.9	852.0	771.6	775.6	544.5	174.8	102.5	122.6	142.7	112.5
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: P157959

CATALOG NUMBER: VTS-E11-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	5945.7	5945.7
2.5°	5863.3	5875.4
5°	5871.4	5871.4
7.5°	5917.6	5917.6
10°	5967.8	5969.8
12.5°	6014.0	6012.0
15°	6050.2	6044.2
17.5°	6072.3	6066.3
20°	6050.2	6040.2
22.5°	5937.7	5909.6
25°	5732.7	5696.6
27.5°	5461.5	5437.4
30°	5107.8	5071.7
32.5°	4693.9	4675.8
35°	4298.0	4275.9
37.5°	3936.4	3930.3
40°	3630.9	3598.8
42.5°	3273.3	3259.2
45°	2909.6	2901.5
47.5°	2568.0	2559.9
50°	2252.5	2236.4
52.5°	1943.1	1916.9
55°	1599.5	1581.4
57.5°	1227.7	1211.7
60°	864.0	845.9
62.5°	614.9	594.8
65°	512.4	496.3
67.5°	464.2	446.1
69°	442.1	426.0
70°	428.0	415.9
72.5°	397.9	389.8
75°	363.7	357.7
77.5°	319.5	309.4
80°	267.2	257.2
82.5°	225.0	215.0
85°	150.7	136.6
87.5°	68.3	60.3
90°	0.0	0.0

(END OF REPORT)