

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: P157960

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157960
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
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (231) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

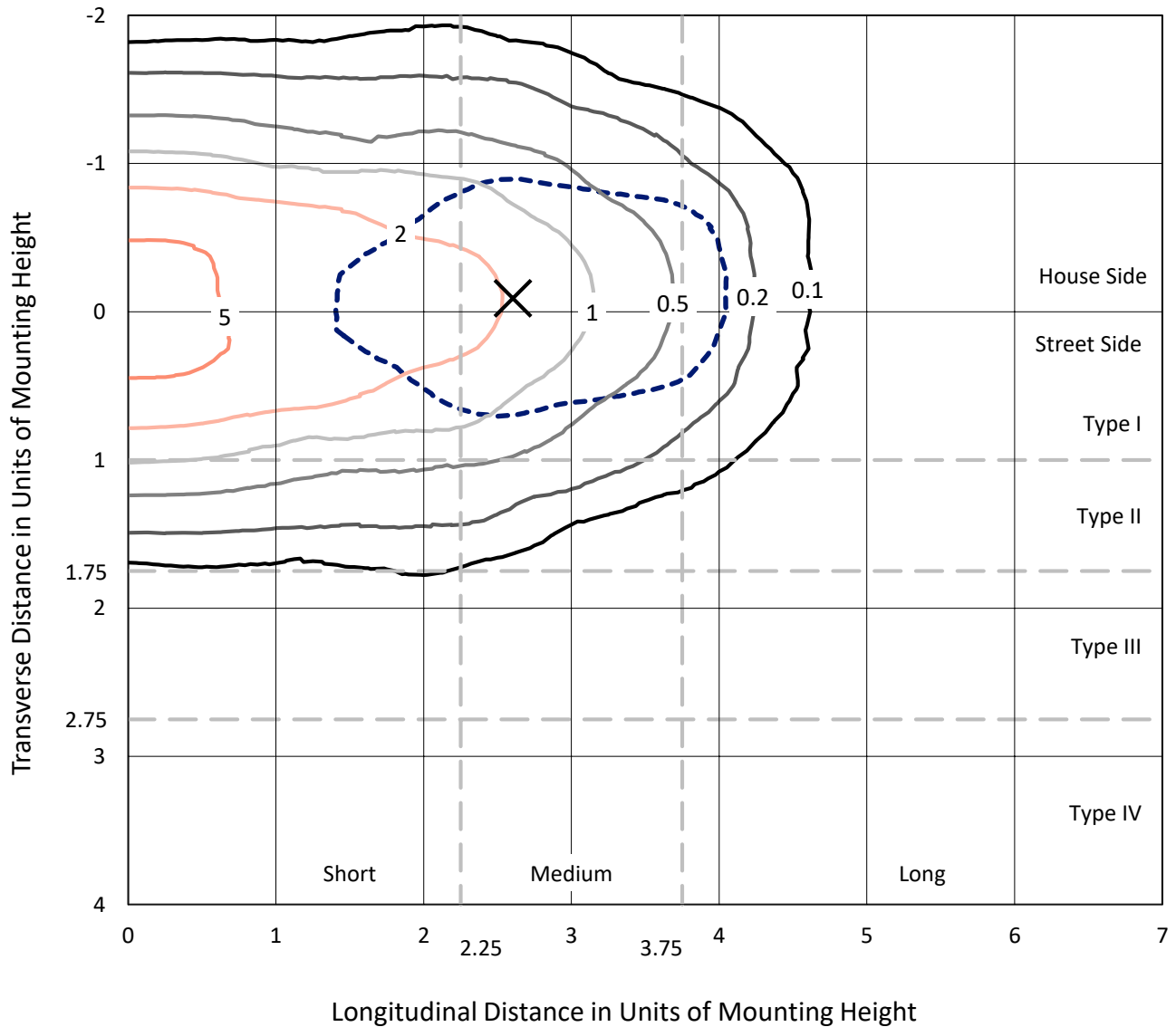
Lumens per Lamp: N/A
Luminaire Lumens: 34269.6 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

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

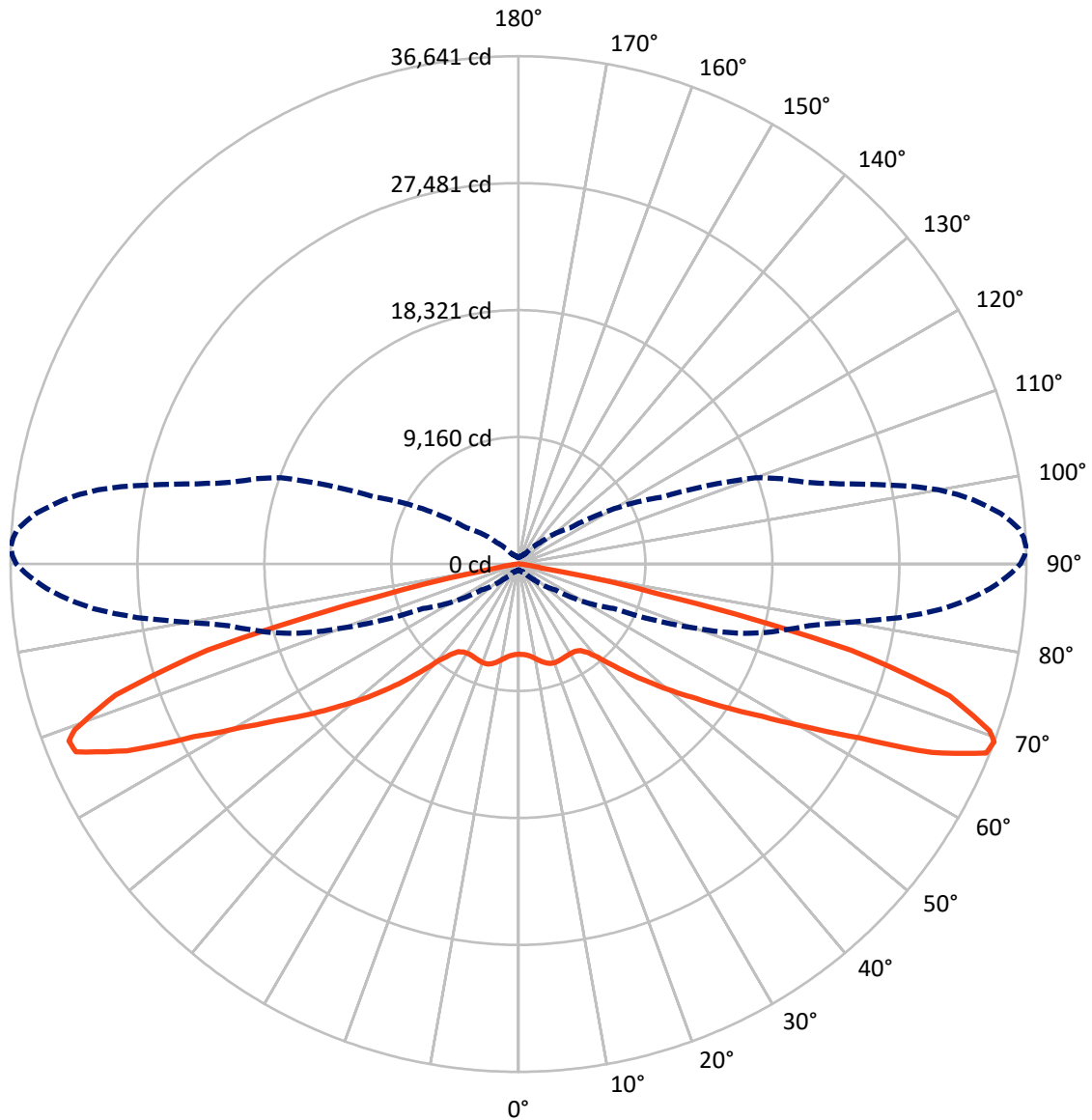
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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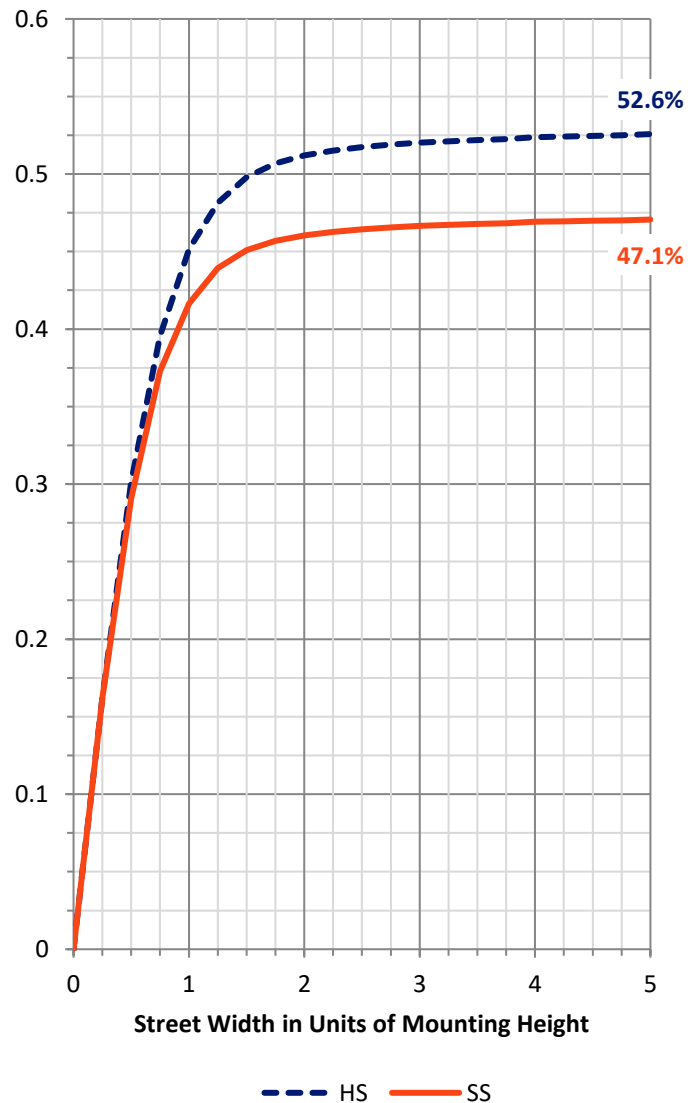
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18174.9	0.0	18174.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	16094.6	0.0	16094.6
	% Fixture	47.0	0.0	47.0
Total	Lumens	34269.6	0.0	34269.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.0	1.9
10°-20°	2012.3	5.9
20°-30°	3264.7	9.5
30°-40°	4068.7	11.9
40°-50°	5065.9	14.8
50°-60°	6247.6	18.2
60°-70°	7759.1	22.6
70°-80°	4767.5	13.9
80°-90°	446.8	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°	34269.6	100.0
0°-180°	34269.6	100.0



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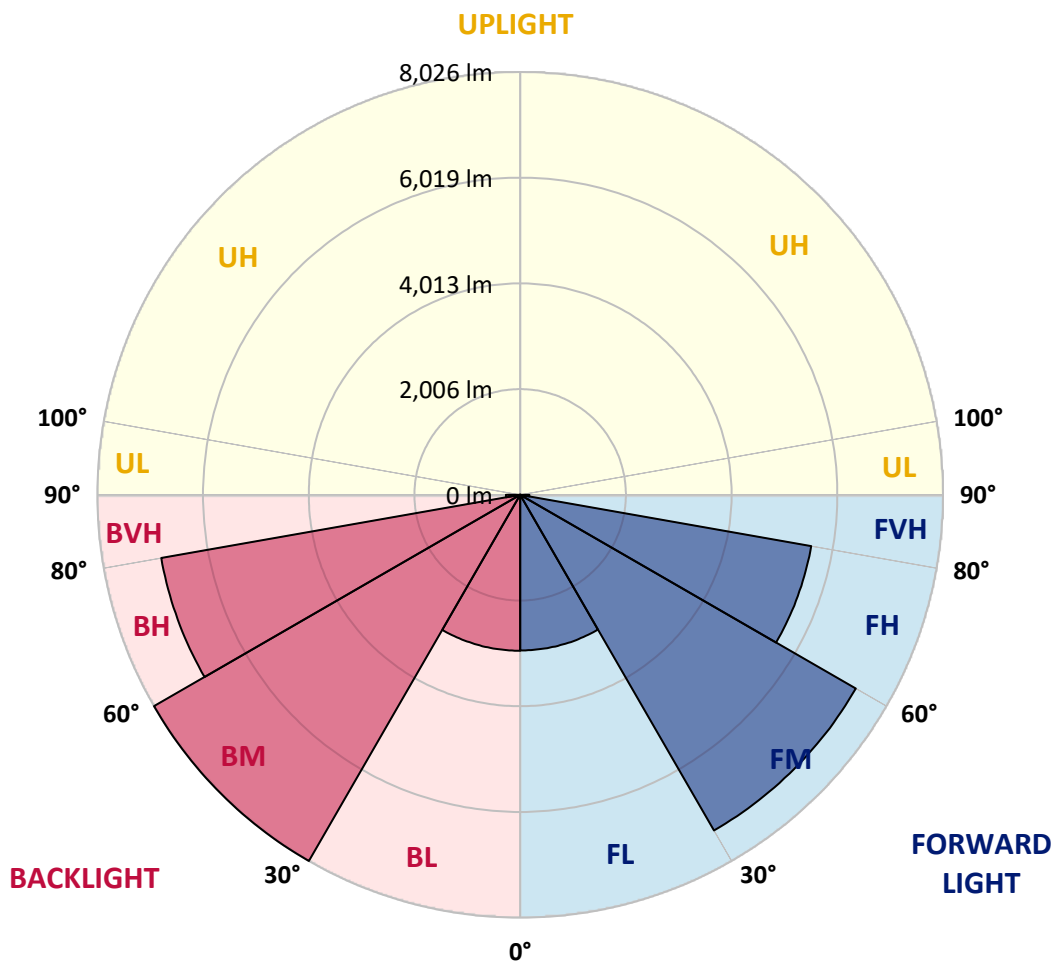
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2953.8	8.6			
FM	(30°-60°)	7356.4	21.5			
FH	(60°-80°)	5609.5	16.4			G3/7500
FVH	(80°-90°)	175.0	0.5			G2/225
BL	(0°-30°)	2960.1	8.6	B4/5000		
BM	(30°-60°)	8025.9	23.4	B4/8500		
BH	(60°-80°)	6917.1	20.2	B5		G5
BVH	(80°-90°)	271.9	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°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6613.2	6595.6	6611.0	6613.2	6611.0	6611.0	6591.2	6586.8	6560.4	6567.0	6564.8
5°	6703.4	6696.8	6707.8	6712.2	6716.6	6707.8	6692.4	6685.8	6668.2	6661.6	6659.4
7.5°	6787.0	6776.0	6793.6	6809.0	6820.0	6822.2	6824.4	6813.4	6813.4	6804.6	6804.6
10°	6857.4	6848.6	6877.2	6897.0	6932.2	6952.0	6974.0	6989.4	6998.2	7000.4	6998.2
12.5°	6888.2	6881.6	6927.8	6987.2	7053.2	7099.4	7154.4	7194.0	7205.0	7202.8	7213.8
15°	6835.4	6839.8	6910.2	7026.8	7167.6	7284.2	7361.2	7394.2	7403.0	7407.4	7409.6
17.5°	6692.4	6701.2	6802.4	6991.6	7238.0	7449.2	7563.6	7563.6	7546.0	7546.0	7543.8
20°	6463.6	6472.4	6604.4	6877.2	7240.2	7563.6	7726.4	7693.4	7627.4	7614.2	7601.0
22.5°	6146.8	6182.0	6327.2	6644.0	7145.6	7596.6	7827.6	7779.2	7675.8	7647.2	7627.4
25°	5788.2	5783.8	5957.6	6314.0	6916.8	7517.4	7856.2	7847.4	7737.4	7706.6	7671.4
27.5°	5379.0	5392.2	5552.8	5913.6	6567.0	7288.6	7807.8	7924.4	7834.2	7803.4	7770.4
30°	4958.8	4972.0	5123.8	5544.0	6168.8	6960.8	7708.8	7999.2	7964.0	7939.8	7917.8
32.5°	4536.4	4540.8	4721.2	5172.2	5832.2	6569.2	7559.2	8067.4	8115.8	8104.8	8096.0
35°	4140.4	4144.8	4340.6	4798.2	5500.0	6234.8	7378.8	8166.4	8322.6	8335.8	8344.6
37.5°	3755.4	3762.0	3962.2	4441.8	5172.2	5981.8	7178.6	8318.2	8613.0	8661.4	8670.2
40°	3372.6	3379.2	3570.6	4078.8	4840.0	5759.6	7024.6	8531.6	9004.6	9070.6	9138.8
42.5°	3007.4	3031.6	3194.4	3680.6	4470.4	5484.6	6958.6	8791.2	9468.8	9572.2	9649.2
45°	2666.4	2668.6	2853.4	3308.8	4032.6	5112.8	6914.6	9086.0	9988.0	10144.2	10249.8
47.5°	2301.2	2327.6	2521.2	2963.4	3623.4	4653.0	6773.8	9431.4	10553.4	10736.0	10949.4
50°	1947.0	1984.4	2171.4	2609.2	3249.4	4177.8	6395.4	9836.2	11189.2	11426.8	11673.2
52.5°	1606.0	1603.8	1801.8	2257.2	2873.2	3775.2	5781.6	10260.8	11924.0	12179.2	12445.4
55°	1214.4	1214.4	1410.2	1826.0	2466.2	3416.6	5123.8	10524.8	12606.0	12914.0	13204.4
57.5°	833.8	855.8	1040.6	1399.2	2041.6	3088.8	4620.0	10373.0	13127.4	13510.2	13855.6
60°	618.2	640.2	776.6	1005.4	1597.2	2701.6	4241.6	9658.0	13442.0	13950.2	14399.0
62.5°	534.6	550.0	679.8	805.2	1150.6	2290.2	3907.2	8749.4	13895.2	14590.4	15215.2
65°	477.4	492.8	622.6	695.2	899.8	1841.4	3720.2	8230.2	14436.4	15499.0	16405.4
67.5°	442.2	459.8	569.8	622.6	785.4	1665.4	3575.0	8109.2	14432.0	15721.2	16878.4
69°	424.6	437.8	528.0	585.2	759.0	1612.6	3260.4	7583.4	13479.4	14863.2	16024.8
70°	413.6	426.8	503.8	561.0	750.2	1518.0	2970.0	6888.2	12394.8	13787.4	14966.6
72.5°	378.4	391.6	448.8	501.6	624.8	1014.2	2070.2	4408.8	8857.2	9851.6	11200.2
75°	334.4	349.8	393.8	437.8	473.0	587.4	1194.6	2288.0	5064.4	5819.0	7020.2
77.5°	272.8	288.2	334.4	404.8	400.4	446.6	776.6	1405.8	2371.6	2941.4	3385.8
80°	224.4	235.4	275.0	409.2	327.8	374.0	629.2	1152.8	1669.8	1845.8	1951.4
82.5°	149.6	165.0	213.4	321.2	250.8	266.2	470.8	1078.0	1412.4	1548.8	1676.4
85°	70.4	77.0	129.8	171.6	151.8	143.0	268.4	761.2	1051.6	1115.4	1163.8
87.5°	0.0	0.0	6.6	13.2	19.8	19.8	48.4	160.6	294.8	356.4	352.0
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°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6556.0	6558.2	6556.0	6556.0	6553.8	6549.4	6549.4	6545.0	6547.2	6545.0	6549.4
5°	6657.2	6657.2	6650.6	6646.2	6652.8	6646.2	6648.4	6637.4	6637.4	6630.8	6622.0
7.5°	6802.4	6802.4	6804.6	6791.4	6800.2	6802.4	6795.8	6791.4	6787.0	6776.0	6778.2
10°	6996.0	6996.0	7002.6	6985.0	6993.8	6998.2	7000.4	7000.4	6996.0	6976.2	6978.4
12.5°	7211.6	7207.2	7209.4	7200.6	7209.4	7213.8	7218.2	7213.8	7213.8	7209.4	7207.2
15°	7407.4	7405.2	7409.6	7403.0	7405.2	7409.6	7422.8	7420.6	7418.4	7405.2	7405.2
17.5°	7541.6	7535.0	7530.6	7528.4	7528.4	7526.2	7528.4	7528.4	7521.8	7519.6	7519.6
20°	7592.2	7574.6	7563.6	7557.0	7548.2	7543.8	7539.4	7541.6	7537.2	7530.6	7532.8
22.5°	7601.0	7576.8	7554.8	7535.0	7517.4	7506.4	7495.4	7491.0	7480.0	7473.4	7473.4
25°	7642.8	7605.4	7570.2	7537.2	7510.8	7486.6	7462.4	7444.8	7431.6	7416.2	7411.8
27.5°	7735.2	7695.6	7653.8	7612.0	7576.8	7528.4	7495.4	7460.2	7429.4	7405.2	7387.6
30°	7878.2	7838.6	7796.8	7748.4	7702.2	7651.6	7596.6	7554.8	7510.8	7462.4	7436.0
32.5°	8067.4	8041.0	7999.2	7953.0	7911.2	7858.4	7792.4	7728.6	7686.8	7629.6	7587.8
35°	8338.0	8307.2	8294.0	8274.2	8232.4	8199.4	8126.8	8067.4	8027.8	7948.6	7917.8
37.5°	8707.6	8705.4	8716.4	8709.8	8716.4	8674.6	8641.6	8639.4	8582.2	8505.2	8430.4
40°	9211.4	9237.8	9297.2	9339.0	9378.6	9383.0	9429.2	9380.8	9387.4	9376.4	9299.4
42.5°	9785.6	9875.8	9946.2	10069.4	10164.0	10252.0	10311.4	10392.8	10454.4	10509.4	10522.6
45°	10425.8	10560.0	10722.8	10832.8	11017.6	11165.0	11367.4	11523.6	11686.4	11847.0	11904.2
47.5°	11121.0	11288.2	11468.6	11673.2	11906.4	12137.4	12449.8	12689.6	12951.4	13169.2	13362.8
50°	11888.8	12062.6	12304.6	12540.0	12861.2	13127.4	13536.6	13851.2	14273.6	14564.0	14814.8
52.5°	12689.6	12907.4	13178.0	13437.6	13765.4	14106.4	14561.8	15026.0	15534.2	15974.2	16339.4
55°	13472.8	13741.2	14000.8	14304.4	14667.4	15063.4	15578.2	16189.8	16823.4	17327.2	17811.2
57.5°	14170.2	14480.4	14786.2	15094.2	15466.0	15925.8	16504.4	17164.4	17890.4	18561.4	19225.8
60°	14817.0	15188.8	15562.8	15947.8	16374.6	16942.2	17637.4	18449.2	19388.6	20306.0	21175.0
62.5°	15840.0	16328.4	16792.6	17289.8	17804.6	18471.2	19291.8	20356.6	21434.6	22580.8	23471.8
65°	17226.0	17912.4	18519.6	19164.2	19830.8	20721.8	21703.0	22976.8	24521.2	25696.0	27126.0
67.5°	17914.6	18818.8	19599.8	20317.0	21142.0	22041.8	23207.8	24714.8	26362.6	28065.4	29660.4
69°	17105.0	18037.8	18902.4	19705.4	20539.2	21412.6	22631.4	24178.0	25920.4	27761.8	29319.4
70°	16055.6	16988.4	17910.2	18825.4	19586.6	20438.0	21661.2	23256.2	24996.4	26910.4	28454.8
72.5°	12300.2	13422.2	14256.0	15114.0	15996.2	16717.8	18130.2	19474.4	21287.2	23229.8	24930.4
75°	7869.4	8901.2	9812.0	10542.4	11404.8	12269.4	13312.2	14806.0	15941.2	17536.2	18915.6
77.5°	4043.6	4349.4	5227.2	5489.0	6087.4	6558.2	7132.4	7506.4	8430.4	8626.2	9440.2
80°	1916.2	1727.0	1625.8	1533.4	1559.8	1548.8	1502.6	1441.0	1518.0	1485.0	1471.8
82.5°	1669.8	1489.4	1188.0	1009.8	873.4	741.4	638.0	585.2	591.8	609.4	616.0
85°	1170.4	1100.0	858.0	651.2	508.2	393.8	316.8	303.6	312.4	336.6	327.8
87.5°	338.8	354.2	312.4	217.8	151.8	110.0	85.8	96.8	92.4	90.2	94.6
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6549.4	6547.2	6540.6	6534.0	6534.0	6529.6	6534.0	6536.2	6534.0	6534.0	6529.6
5°	6624.2	6626.4	6633.0	6619.8	6617.6	6619.8	6611.0	6608.8	6602.2	6608.8	6600.0
7.5°	6767.2	6773.8	6773.8	6765.0	6762.8	6769.4	6756.2	6751.8	6745.2	6743.0	6740.8
10°	6980.6	6987.2	6976.2	6969.6	6963.0	6971.8	6960.8	6960.8	6954.2	6947.6	6945.4
12.5°	7218.2	7213.8	7209.4	7213.8	7207.2	7207.2	7200.6	7196.2	7194.0	7191.8	7187.4
15°	7403.0	7418.4	7418.4	7422.8	7418.4	7418.4	7409.6	7411.8	7407.4	7405.2	7407.4
17.5°	7521.8	7526.2	7537.2	7543.8	7543.8	7546.0	7541.6	7546.0	7541.6	7541.6	7550.4
20°	7537.2	7541.6	7552.6	7563.6	7570.2	7574.6	7574.6	7581.2	7585.6	7590.0	7601.0
22.5°	7475.6	7482.2	7495.4	7515.2	7526.2	7530.6	7539.4	7550.4	7561.4	7570.2	7585.6
25°	7411.8	7414.0	7427.2	7447.0	7460.2	7471.2	7486.6	7499.8	7515.2	7532.8	7550.4
27.5°	7376.6	7374.4	7385.4	7405.2	7416.2	7431.6	7444.8	7464.6	7482.2	7504.2	7519.6
30°	7407.4	7389.8	7392.0	7400.8	7409.6	7420.6	7436.0	7453.6	7473.4	7493.2	7510.8
32.5°	7543.8	7504.2	7477.8	7471.2	7473.4	7475.6	7484.4	7495.4	7510.8	7526.2	7532.8
35°	7838.6	7770.4	7735.2	7706.6	7682.4	7662.6	7667.0	7664.8	7664.8	7678.0	7662.6
37.5°	8399.6	8313.8	8276.4	8225.8	8197.2	8124.6	8104.8	8100.4	8071.8	8071.8	8038.8
40°	9279.6	9229.0	9200.4	9154.2	9015.6	9033.2	8934.2	8936.4	8855.0	8863.8	8806.6
42.5°	10531.4	10538.0	10502.8	10472.0	10364.2	10315.8	10223.4	10091.4	9988.0	9985.8	9871.4
45°	11979.0	12058.2	11946.0	11985.6	11891.0	11761.2	11653.4	11484.0	11323.4	11272.8	11156.2
47.5°	13492.6	13622.4	13536.6	13552.0	13505.8	13321.0	13175.8	12966.8	12757.8	12617.0	12546.6
50°	15109.6	15195.4	15193.2	15151.4	15129.4	14949.0	14715.8	14557.4	14403.4	14214.2	14152.6
52.5°	16574.8	16775.0	16909.2	16878.4	16814.6	16706.8	16500.0	16363.6	16137.0	16110.6	16137.0
55°	18143.4	18403.0	18539.4	18704.4	18706.6	18686.8	18601.0	18550.4	18339.2	18363.4	18332.6
57.5°	19628.4	20009.0	20218.0	20570.0	20691.0	20851.6	20792.2	20858.2	20730.6	20814.2	20790.0
60°	21641.4	22169.4	22517.0	22998.8	23223.2	23625.8	23705.0	23753.4	23823.8	23995.4	23898.6
62.5°	24173.6	24948.0	25669.6	26325.2	26540.8	27145.8	27244.8	27623.2	27643.0	27759.6	27546.2
65°	28318.4	29262.2	30056.4	30841.8	31295.0	32003.4	32289.4	33024.2	32799.8	32894.4	32439.0
67.5°	31033.2	32131.0	33195.8	33939.4	34691.8	35415.6	35937.0	36412.2	36407.8	36315.4	35910.6
69°	30793.4	32016.6	33066.0	34062.6	34854.6	35598.2	36225.2	36533.2	36641.0	36506.8	36218.6
70°	29964.0	31220.2	32505.0	33325.6	34188.0	35004.2	35651.0	35987.6	36062.4	35967.8	35719.2
72.5°	26131.6	27337.2	28754.0	29499.8	30542.6	31132.2	32023.2	32458.8	32535.8	32414.8	32252.0
75°	20394.0	20611.8	22055.0	22530.2	23287.0	23966.8	24521.2	24380.4	24774.2	24697.2	24635.6
77.5°	9607.4	9026.6	9961.6	10397.2	10168.4	9559.0	10445.6	9805.4	10230.0	10782.2	10641.4
80°	1584.0	1579.6	1621.4	1713.8	1603.8	1702.8	1700.6	1652.2	1656.6	1775.4	1713.8
82.5°	609.4	622.6	629.2	646.8	646.8	649.0	660.0	673.2	662.2	684.2	679.8
85°	330.0	352.0	332.2	316.8	327.8	334.4	343.2	354.2	343.2	376.2	358.6
87.5°	85.8	90.2	79.2	79.2	77.0	70.4	70.4	74.8	81.4	96.8	105.6
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: P157960

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

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6520.8	6523.0	6525.2	6518.6	6514.2	6514.2	6512.0	6507.6	6505.4	6505.4	6505.4
5°	6595.6	6600.0	6589.0	6586.8	6582.4	6578.0	6578.0	6573.6	6575.8	6575.8	6564.8
7.5°	6745.2	6738.6	6725.4	6716.6	6725.4	6710.0	6703.4	6707.8	6703.4	6705.6	6701.2
10°	6945.4	6945.4	6930.0	6938.8	6927.8	6910.2	6916.8	6910.2	6905.8	6890.4	6899.2
12.5°	7194.0	7187.4	7178.6	7158.8	7152.2	7150.0	7130.2	7132.4	7125.8	7121.4	7114.8
15°	7411.8	7409.6	7389.8	7378.8	7376.6	7367.8	7359.0	7354.6	7343.6	7341.4	7337.0
17.5°	7557.0	7550.4	7541.6	7530.6	7530.6	7517.4	7513.0	7502.0	7499.8	7493.2	7486.6
20°	7605.4	7607.6	7598.8	7590.0	7585.6	7576.8	7570.2	7561.4	7557.0	7548.2	7541.6
22.5°	7594.4	7594.4	7585.6	7583.4	7574.6	7561.4	7552.6	7541.6	7530.6	7519.6	7506.4
25°	7559.2	7557.0	7550.4	7539.4	7528.4	7508.6	7491.0	7473.4	7458.0	7444.8	7425.0
27.5°	7528.4	7524.0	7510.8	7495.4	7473.4	7451.4	7418.4	7394.2	7374.4	7356.8	7334.8
30°	7517.4	7502.0	7482.2	7458.0	7431.6	7398.6	7363.4	7332.6	7310.6	7293.0	7284.2
32.5°	7530.6	7510.8	7480.0	7449.2	7416.2	7376.6	7341.4	7315.0	7295.2	7290.8	7290.8
35°	7651.6	7618.6	7576.8	7532.8	7491.0	7458.0	7433.8	7431.6	7418.4	7433.8	7458.0
37.5°	8005.8	7977.2	7913.4	7856.2	7827.6	7812.2	7790.2	7794.6	7763.8	7812.2	7851.8
40°	8758.2	8723.0	8648.2	8602.0	8544.8	8489.8	8533.8	8520.6	8542.6	8533.8	8575.6
42.5°	9856.0	9820.8	9702.0	9684.4	9660.2	9638.2	9638.2	9620.6	9611.8	9642.6	9607.4
45°	11191.4	11121.0	11077.0	11129.8	11057.2	11079.2	11156.2	11052.8	11077.0	10934.0	10802.0
47.5°	12577.4	12570.8	12559.8	12623.6	12634.6	12667.6	12709.4	12603.8	12412.4	12304.6	12036.2
50°	14172.4	14240.6	14267.0	14328.6	14355.0	14379.2	14313.2	14157.0	13833.6	13547.6	13230.8
52.5°	16110.6	15991.8	16154.6	16214.0	16187.6	16090.8	15853.2	15661.8	15215.2	14803.8	14313.2
55°	18367.8	18396.4	18282.0	18235.8	18145.6	17877.2	17549.4	17118.2	16552.8	16016.0	15395.6
57.5°	20666.8	20655.8	20477.6	20226.8	19921.0	19597.6	19109.2	18491.0	17831.0	17109.4	16359.2
60°	23463.0	23452.0	23091.2	22662.2	22226.6	21705.2	20939.6	20196.0	19311.6	18363.4	17470.2
62.5°	27137.0	26664.0	26309.8	25669.6	24996.4	24314.4	23278.2	22290.4	21109.0	19912.2	18869.4
65°	31845.0	31066.2	30663.6	29735.2	28692.4	27627.6	26573.8	25275.8	23685.2	22237.6	20963.8
67.5°	35327.6	34614.8	33877.8	32951.6	31807.6	30619.6	29176.4	27541.8	25735.6	24112.0	22723.8
69°	35633.4	34966.8	34082.4	33154.0	32071.6	30780.2	29205.0	27374.6	25544.2	23900.8	22534.6
70°	35169.2	34460.8	33530.2	32564.4	31354.4	30135.6	28485.6	26578.2	24745.6	23097.8	21764.6
72.5°	31706.4	31015.6	30025.6	28870.6	27629.8	26587.0	25020.6	23031.8	21038.6	19516.2	18477.8
75°	24109.8	23958.0	23256.2	22583.0	21606.2	20442.4	19010.2	17672.6	16038.0	14427.6	13459.6
77.5°	10287.2	10637.0	11002.2	11055.0	11090.2	10731.6	10509.4	10172.8	9079.4	8582.2	8069.6
80°	1900.8	1698.4	1812.8	1826.0	1900.8	1940.4	2085.6	2472.8	2516.8	2611.4	2728.0
82.5°	675.4	686.4	704.0	710.6	717.2	743.6	842.6	1009.8	1161.6	1359.6	1623.6
85°	382.8	389.4	404.8	418.0	426.8	453.2	508.2	607.2	756.8	983.4	1333.2
87.5°	116.6	132.0	140.8	158.4	165.0	169.4	193.6	259.6	334.4	495.0	721.6
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: P157960

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

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8	6509.8
2.5°	6505.4	6503.2	6498.8	6494.4	6496.6	6492.2	6479.0	6474.6	6459.2	6448.2	6439.4
5°	6564.8	6562.6	6553.8	6556.0	6553.8	6531.8	6516.4	6490.0	6474.6	6450.4	6441.6
7.5°	6688.0	6685.8	6670.4	6677.0	6672.6	6639.6	6613.2	6571.4	6549.4	6518.6	6494.4
10°	6872.8	6872.8	6855.2	6857.4	6857.4	6813.4	6767.2	6696.8	6646.2	6597.8	6556.0
12.5°	7097.2	7088.4	7086.2	7075.2	7066.4	7018.0	6947.6	6853.0	6758.4	6679.2	6622.0
15°	7323.8	7310.6	7304.0	7290.8	7279.8	7235.8	7141.2	7024.6	6897.0	6769.4	6674.8
17.5°	7471.2	7462.4	7449.2	7444.8	7429.4	7385.4	7319.4	7202.8	7044.4	6866.2	6723.2
20°	7526.2	7510.8	7502.0	7493.2	7484.4	7453.6	7453.6	7378.8	7202.8	6952.0	6734.2
22.5°	7491.0	7482.2	7469.0	7462.4	7453.6	7458.0	7543.8	7532.8	7330.4	6971.8	6655.0
25°	7409.6	7398.6	7387.6	7387.6	7385.4	7431.6	7638.4	7667.0	7367.8	6875.0	6481.2
27.5°	7326.0	7310.6	7315.0	7317.2	7328.2	7427.2	7741.8	7702.2	7266.6	6641.8	6182.0
30°	7275.4	7275.4	7286.4	7304.0	7326.0	7499.8	7823.2	7623.0	7004.8	6289.8	5786.0
32.5°	7297.4	7319.4	7343.6	7387.6	7420.6	7660.4	7851.8	7418.4	6624.2	5854.2	5372.4
35°	7493.2	7519.6	7565.8	7634.0	7673.6	7891.4	7851.8	7119.2	6182.0	5480.2	4945.6
37.5°	7920.0	7946.4	8001.4	8054.2	8093.8	8181.8	7818.8	6738.6	5812.4	5093.0	4562.8
40°	8606.4	8643.8	8683.4	8674.6	8648.2	8562.4	7752.8	6384.4	5471.4	4754.2	4186.6
42.5°	9572.2	9537.0	9532.6	9446.8	9358.8	8991.4	7704.4	6153.4	5178.8	4397.8	3812.6
45°	10687.6	10544.6	10397.2	10282.8	10148.6	9462.2	7691.2	5966.4	4855.4	4001.8	3405.6
47.5°	11809.6	11580.8	11294.8	11116.6	10898.8	9963.8	7730.8	5715.6	4439.6	3570.6	3025.0
50°	12909.6	12535.6	12181.4	11968.0	11721.6	10540.2	7794.6	5293.2	3942.4	3179.0	2677.4
52.5°	13928.2	13446.4	13083.4	12832.6	12531.2	11211.2	7737.4	4738.8	3511.2	2802.8	2347.4
55°	14896.2	14363.8	13987.6	13723.6	13369.4	11884.4	7323.8	4235.0	3099.8	2435.4	1975.6
57.5°	15743.2	15232.8	14841.2	14482.6	14183.4	12469.6	6507.6	3819.2	2703.8	2015.2	1573.0
60°	16733.2	16159.0	15694.8	15312.0	14960.0	12771.0	5592.4	3449.6	2281.4	1559.8	1137.4
62.5°	18068.6	17408.6	16871.8	16434.0	15974.2	12837.0	4967.6	3080.0	1810.6	1128.6	827.2
65°	20048.6	19234.6	18563.6	17960.8	17338.2	12564.2	4659.6	2677.4	1346.4	838.2	693.0
67.5°	21621.6	20776.8	20000.2	19225.8	18429.4	12058.2	4591.4	2305.6	1034.0	712.8	622.6
69°	21430.2	20625.0	19912.2	19074.0	18191.8	11422.4	4523.2	2162.6	943.8	662.2	589.6
70°	20693.2	19929.8	19206.0	18524.0	17443.8	10714.0	4342.8	2083.4	908.6	638.0	565.4
72.5°	17485.6	16601.2	15899.4	15050.2	13912.8	7961.8	3293.4	1685.2	833.8	583.0	510.4
75°	12753.4	12020.8	11321.2	10381.8	9275.2	4606.8	2050.4	963.6	611.6	528.0	462.0
77.5°	7447.0	7282.0	6606.6	5988.4	4892.8	2345.2	1177.0	576.4	475.2	479.6	407.0
80°	2802.8	2985.4	3053.6	2840.2	2624.6	1619.2	855.8	468.6	413.6	473.0	345.4
82.5°	2043.8	2371.6	2411.2	2310.0	2149.4	1509.2	684.2	376.2	336.6	508.2	297.0
85°	1705.0	1887.6	1916.2	1810.6	1757.8	1278.2	477.4	264.0	246.4	365.2	222.2
87.5°	862.4	908.6	932.8	844.8	849.2	596.2	191.4	112.2	134.2	156.2	123.2
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: P157960

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

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	6509.8	6509.8
2.5°	6419.6	6432.8
5°	6428.4	6428.4
7.5°	6479.0	6479.0
10°	6534.0	6536.2
12.5°	6584.6	6582.4
15°	6624.2	6617.6
17.5°	6648.4	6641.8
20°	6624.2	6613.2
22.5°	6501.0	6470.2
25°	6276.6	6237.0
27.5°	5979.6	5953.2
30°	5592.4	5552.8
32.5°	5139.2	5119.4
35°	4705.8	4681.6
37.5°	4309.8	4303.2
40°	3975.4	3940.2
42.5°	3583.8	3568.4
45°	3185.6	3176.8
47.5°	2811.6	2802.8
50°	2466.2	2448.6
52.5°	2127.4	2098.8
55°	1751.2	1731.4
57.5°	1344.2	1326.6
60°	946.0	926.2
62.5°	673.2	651.2
65°	561.0	543.4
67.5°	508.2	488.4
69°	484.0	466.4
70°	468.6	455.4
72.5°	435.6	426.8
75°	398.2	391.6
77.5°	349.8	338.8
80°	292.6	281.6
82.5°	246.4	235.4
85°	165.0	149.6
87.5°	74.8	66.0
90°	0.0	0.0

(END OF REPORT)