

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: P159279

Luminaire Tested: **VTS-E11-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159279
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
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-T2-7030
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (231) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31011.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

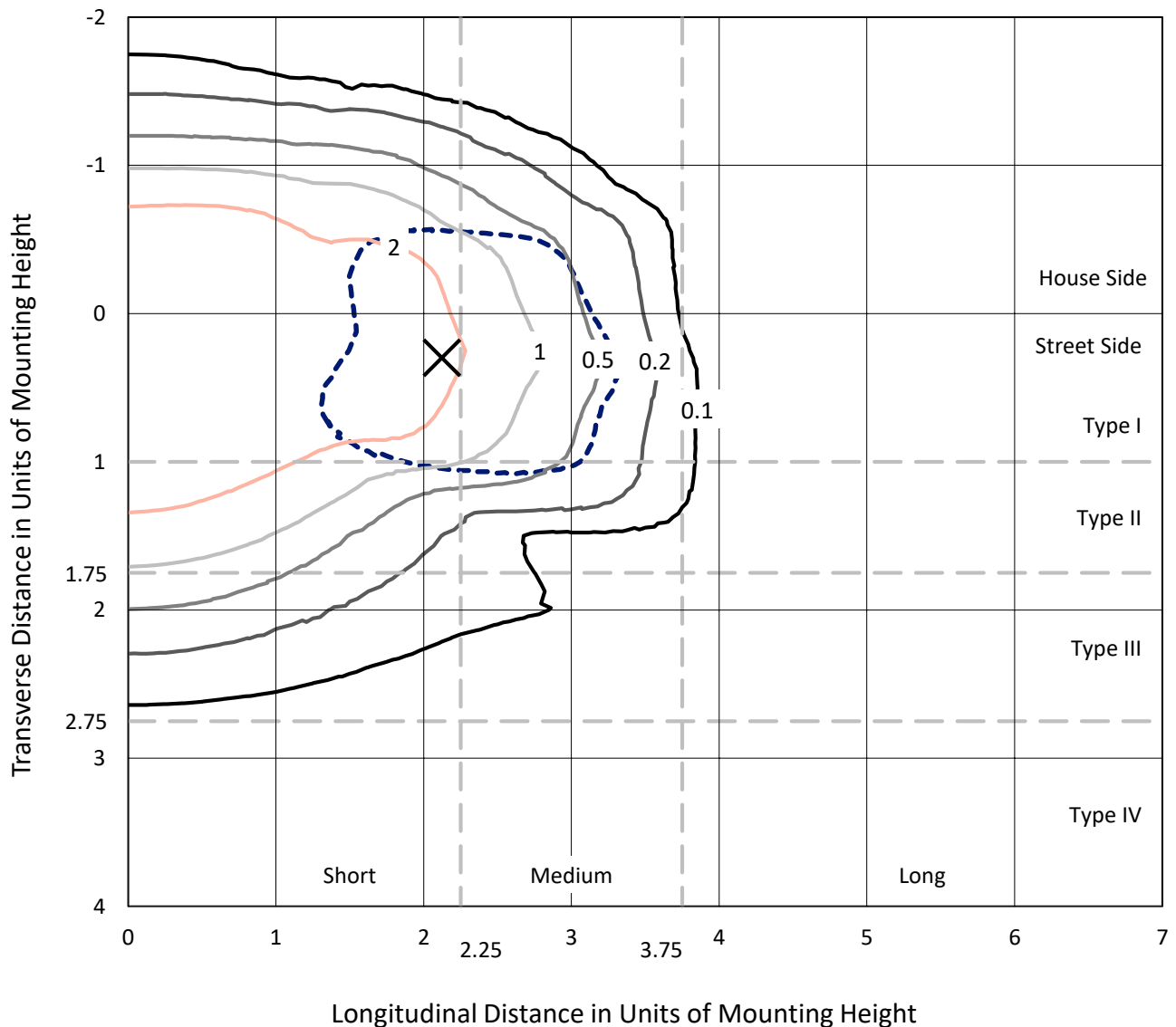
Input Watts (W): 269.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

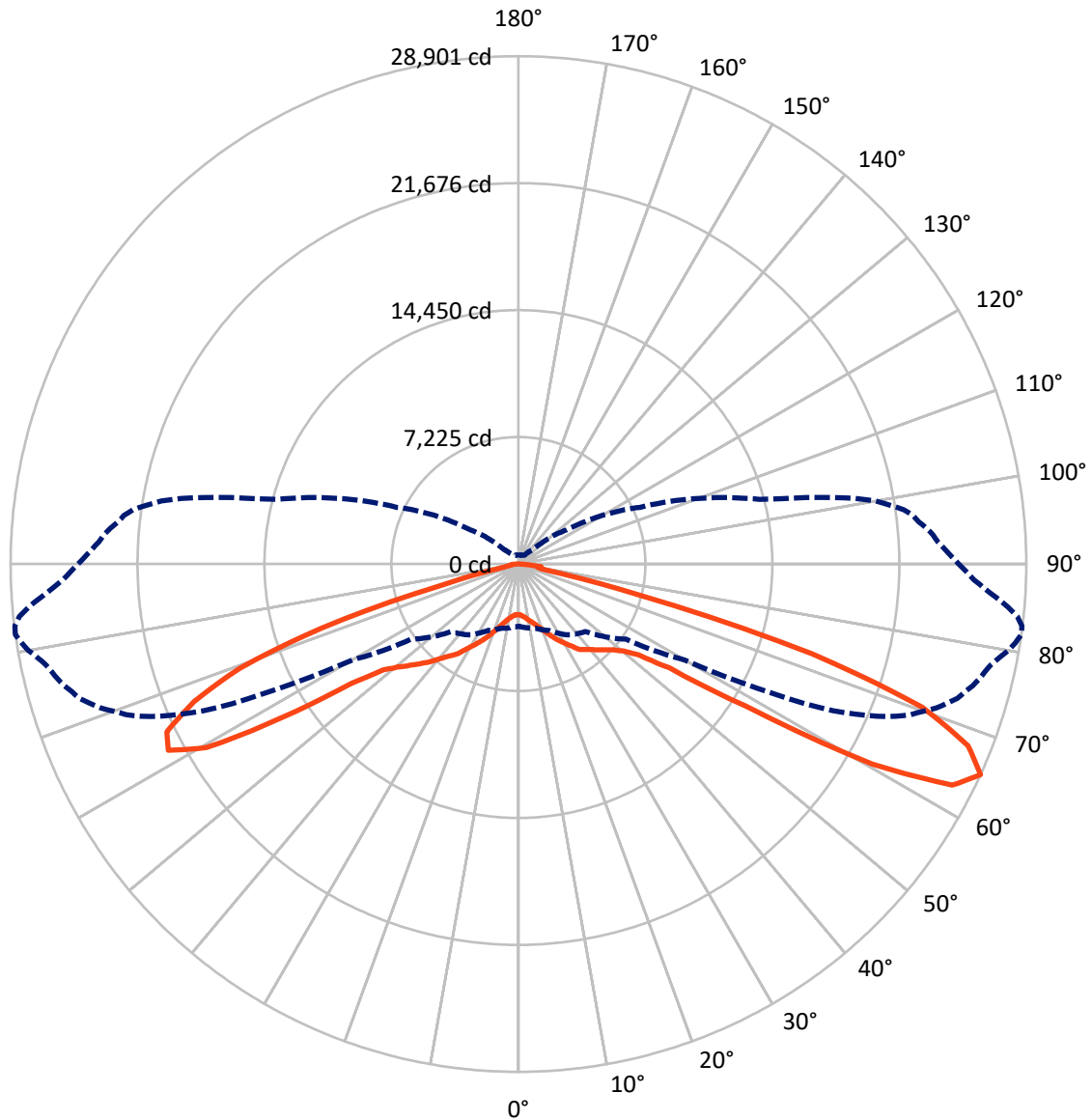


Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11546.7	0.0	11546.7
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	19465.1	0.0	19465.1
	% Fixture	62.8	0.0	62.8
Total	Lumens	31011.8	0.0	31011.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	0.9
10°-20°	1026.4	3.3
20°-30°	2033.8	6.6
30°-40°	3486.3	11.2
40°-50°	5237.4	16.9
50°-60°	7276.4	23.5
60°-70°	8301.3	26.8
70°-80°	2859.7	9.2
80°-90°	498.4	1.6
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°	31011.8	100.0
0°-180°	31011.8	100.0



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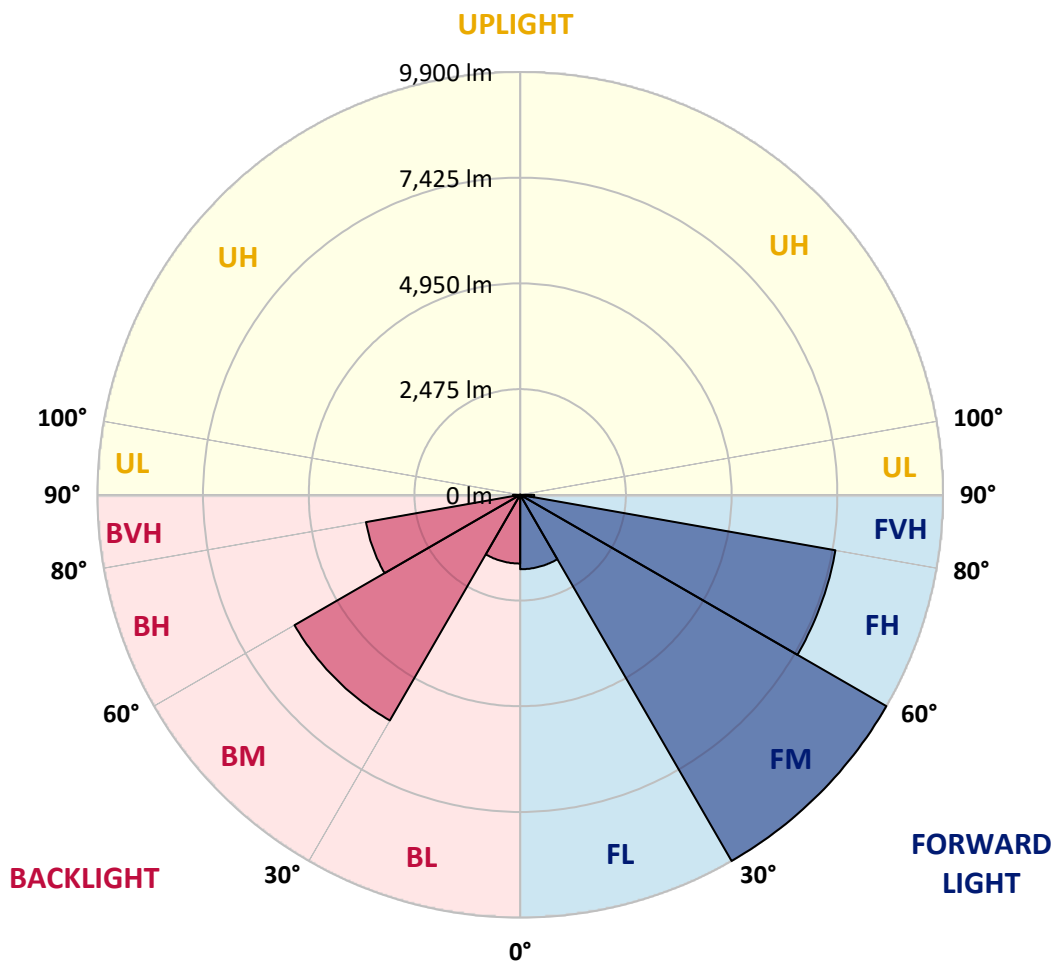
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1742.2	5.6			
FM	(30°-60°)	9899.6	31.9			
FH	(60°-80°)	7495.2	24.2			G3/7500
FVH	(80°-90°)	328.1	1.1			G3/500
BL	(0°-30°)	1610.1	5.2	B3/2500		
BM	(30°-60°)	6100.5	19.7	B4/8500		
BH	(60°-80°)	3665.7	11.8	B4/5000		G4/5000
BVH	(80°-90°)	170.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	3042.2	3044.2	3042.2	3036.2	3034.1	3016.1	2996.0	2985.9	2983.9	2975.9	2977.9
5°	3231.1	3225.0	3217.0	3207.0	3196.9	3166.8	3132.6	3114.5	3108.5	3102.5	3094.4
7.5°	3399.9	3403.9	3399.9	3385.8	3359.7	3321.5	3277.3	3249.2	3247.1	3241.1	3235.1
10°	3616.9	3626.9	3602.8	3578.7	3542.5	3484.2	3434.0	3397.8	3391.8	3383.8	3379.8
12.5°	3852.0	3854.0	3845.9	3791.7	3731.4	3651.0	3578.7	3542.5	3534.5	3524.4	3520.4
15°	4103.1	4105.1	4060.9	4008.7	3916.3	3819.8	3719.3	3679.2	3669.1	3671.1	3655.0
17.5°	4302.1	4306.1	4263.9	4197.6	4087.1	3972.5	3864.0	3831.9	3825.8	3827.9	3819.8
20°	4388.5	4394.5	4368.4	4318.1	4213.7	4113.2	4034.8	4014.7	4012.7	4008.7	4024.8
22.5°	4384.4	4386.5	4376.4	4356.3	4294.0	4235.8	4225.7	4237.8	4235.8	4239.8	4253.8
25°	4348.3	4354.3	4352.3	4360.3	4350.3	4372.4	4418.6	4460.8	4466.8	4474.9	4501.0
27.5°	4440.7	4452.8	4438.7	4446.7	4462.8	4537.2	4631.6	4695.9	4708.0	4730.1	4752.2
30°	4802.4	4786.3	4768.2	4748.1	4758.2	4804.4	4910.9	4967.2	4973.2	4989.3	5019.4
32.5°	5338.9	5320.8	5304.7	5272.6	5264.6	5244.5	5280.6	5294.7	5292.7	5308.8	5316.8
35°	5943.7	5945.7	5941.7	5965.8	5985.9	5883.4	5756.8	5722.7	5736.8	5718.7	5722.7
37.5°	6460.1	6466.2	6572.7	6705.3	6743.4	6679.1	6401.9	6265.2	6219.0	6213.0	6166.8
40°	7032.8	7032.8	7193.5	7356.3	7462.8	7543.2	7213.6	6972.5	6874.1	6845.9	6731.4
42.5°	7661.7	7629.6	7776.3	7955.1	8152.0	8334.9	8164.1	7892.8	7752.2	7701.9	7501.0
45°	8178.1	8158.0	8230.4	8397.2	8716.7	9074.3	9098.4	8959.8	8875.4	8770.9	8586.0
47.5°	8495.6	8485.6	8527.8	8708.6	9108.5	9687.2	10010.7	10081.0	10030.8	9950.4	9771.6
50°	8620.2	8606.1	8636.3	8837.2	9285.3	10048.9	10764.2	11095.7	11119.9	11137.9	11081.7
52.5°	8576.0	8557.9	8620.2	8789.0	9255.2	10175.5	11352.9	11989.9	12096.4	12186.8	12371.7
55°	8152.0	8123.9	8292.7	8610.2	9124.6	10129.2	11783.0	12849.9	13075.0	13316.1	13726.0
57.5°	7503.0	7478.9	7722.0	8158.0	8893.5	10002.6	12072.3	13937.0	14443.4	14877.4	16040.8
60°	6878.1	6858.0	7000.6	7422.6	8144.0	9385.8	11714.6	14302.7	15152.7	16089.0	18212.9
62.5°	5760.9	5706.6	5897.5	6253.2	6709.3	7764.2	10153.4	13488.9	14799.0	16175.4	19054.9
65°	3540.5	3618.9	3783.6	4177.5	4925.0	5427.3	7456.8	10912.9	12641.0	14367.0	18102.4
67.5°	2248.5	2270.6	2393.2	2666.4	3245.1	3749.5	4519.1	6847.9	8180.1	9878.1	14212.3
70°	1927.0	1941.1	2045.5	2330.9	2730.7	3351.6	3419.9	3576.7	4054.9	5136.0	8355.0
72.5°	1519.1	1543.2	1625.6	1872.7	2355.0	3022.1	4221.7	2827.2	2730.7	2821.2	4077.0
75°	904.2	932.3	1000.7	1135.3	1513.1	2310.8	4422.6	3289.3	3066.3	2891.5	2813.1
77.5°	478.2	458.1	504.4	582.7	777.6	1231.7	3323.5	4030.8	3874.1	3665.1	3221.0
80°	237.1	245.1	259.2	275.3	347.6	500.3	1661.7	4169.4	4621.6	4822.5	4428.7
82.5°	94.4	106.5	150.7	160.7	190.9	213.0	534.5	2310.8	3309.4	4488.9	5861.3
85°	48.2	46.2	80.4	96.4	112.5	100.5	188.9	862.0	1551.2	2417.3	3916.3
87.5°	6.0	8.0	18.1	24.1	34.2	32.1	54.3	186.9	297.4	422.0	592.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2967.8	2965.8	2965.8	2957.8	2957.8	2959.8	2953.8	2949.8	2949.8	2951.8	2943.7
5°	3088.4	3082.4	3082.4	3074.3	3064.3	3064.3	3056.3	3054.2	3050.2	3042.2	3036.2
7.5°	3229.1	3223.0	3213.0	3207.0	3202.9	3196.9	3186.9	3182.8	3174.8	3166.8	3158.7
10°	3373.7	3365.7	3361.7	3351.6	3347.6	3335.6	3329.5	3331.5	3315.5	3309.4	3311.4
12.5°	3518.4	3510.4	3496.3	3492.3	3490.3	3478.2	3472.2	3468.2	3456.1	3454.1	3448.1
15°	3647.0	3651.0	3645.0	3635.0	3626.9	3624.9	3618.9	3614.9	3606.8	3598.8	3590.7
17.5°	3813.8	3819.8	3811.8	3797.7	3797.7	3795.7	3797.7	3795.7	3781.6	3787.7	3783.6
20°	4026.8	4030.8	4010.7	4016.7	4020.8	4018.7	4024.8	4030.8	4026.8	4026.8	4032.8
22.5°	4271.9	4278.0	4265.9	4273.9	4286.0	4275.9	4294.0	4292.0	4296.0	4302.1	4304.1
25°	4523.1	4535.1	4525.1	4547.2	4539.2	4547.2	4569.3	4563.3	4573.3	4589.4	4595.4
27.5°	4774.3	4782.3	4784.3	4798.4	4812.4	4824.5	4852.6	4852.6	4860.7	4888.8	4888.8
30°	5037.5	5045.5	5053.6	5073.7	5081.7	5103.8	5131.9	5140.0	5136.0	5176.1	5188.2
32.5°	5340.9	5348.9	5363.0	5387.1	5397.2	5419.3	5419.3	5441.4	5457.5	5491.6	5493.6
35°	5744.8	5750.8	5744.8	5742.8	5756.8	5787.0	5789.0	5821.1	5835.2	5869.4	5879.4
37.5°	6148.7	6146.7	6120.5	6092.4	6094.4	6082.4	6074.3	6088.4	6094.4	6096.4	6118.5
40°	6693.2	6641.0	6600.8	6530.5	6498.3	6448.1	6417.9	6415.9	6383.8	6379.8	6385.8
42.5°	7406.5	7346.3	7251.8	7133.3	7042.8	6950.4	6882.1	6841.9	6771.6	6735.4	6705.3
45°	8403.2	8254.5	8142.0	8001.3	7826.5	7665.7	7497.0	7420.6	7286.0	7203.6	7111.2
47.5°	9620.9	9474.2	9301.4	9156.7	8927.6	8704.6	8473.5	8270.6	8035.5	7848.6	7695.9
50°	10943.0	10856.6	10732.0	10597.4	10302.0	10155.4	9864.0	9588.7	9335.5	9002.0	8710.6
52.5°	12299.4	12349.6	12321.5	12273.2	12086.4	12030.1	11778.9	11443.4	11188.2	10959.1	10452.7
55°	13971.2	14031.4	14152.0	14222.3	14200.2	14342.9	14280.6	14019.4	13916.9	13810.4	13450.7
57.5°	16529.1	16959.1	17419.2	17823.1	17917.6	18423.9	18315.4	18576.6	18761.5	18628.9	18512.3
60°	19255.8	20123.8	20905.5	21723.3	22388.4	22886.7	23545.8	23989.9	24269.2	24771.5	24811.7
62.5°	20354.9	21534.4	22527.1	23475.5	24265.2	24956.4	25551.2	26164.0	26666.4	27120.5	27448.0
65°	19752.1	20983.9	22187.5	23150.0	23909.5	24504.3	25151.3	25637.6	26131.9	26423.2	26766.8
67.5°	16420.6	18052.2	19533.1	20618.2	21657.0	22261.8	23027.4	23505.6	24030.1	24337.5	24558.5
70°	10705.9	12829.8	14853.3	16498.9	17901.5	18606.8	19531.1	20184.1	20815.1	20831.1	21198.9
72.5°	5776.9	7553.2	9247.1	10929.0	12528.4	13466.8	14379.1	15172.8	15799.7	15532.4	15898.1
75°	3217.0	4048.9	4975.2	5985.9	6960.5	7497.0	8178.1	8182.2	8505.7	7997.3	8125.9
77.5°	3094.4	3056.3	3070.3	3098.4	3146.7	3044.2	3042.2	2979.9	2883.4	2708.6	2738.8
80°	4065.0	3578.7	3229.1	2680.5	2158.1	1760.2	1649.7	1675.8	1754.2	1910.9	2109.8
82.5°	5877.4	5467.5	4880.8	4016.7	3152.7	2431.3	1997.3	1772.3	1762.2	1918.9	2220.4
85°	4280.0	4527.1	4488.9	3747.5	3090.4	2509.7	1826.5	1543.2	1278.0	1215.7	1322.2
87.5°	630.9	522.4	588.7	492.3	357.7	277.3	243.1	194.9	186.9	190.9	209.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2945.7	2937.7	2929.7	2935.7	2929.7	2927.7	2921.6	2917.6	2915.6	2915.6	2915.6
5°	3036.2	3026.1	3020.1	3018.1	3012.0	3006.0	3004.0	2994.0	2992.0	2992.0	2985.9
7.5°	3158.7	3150.7	3140.6	3134.6	3130.6	3120.6	3110.5	3108.5	3106.5	3098.4	3092.4
10°	3301.4	3289.3	3277.3	3277.3	3269.2	3267.2	3257.2	3243.1	3241.1	3229.1	3225.0
12.5°	3436.0	3432.0	3417.9	3413.9	3407.9	3401.9	3395.8	3389.8	3383.8	3373.7	3377.8
15°	3596.8	3586.7	3574.7	3576.7	3574.7	3566.6	3558.6	3552.6	3548.5	3544.5	3544.5
17.5°	3789.7	3785.7	3783.6	3773.6	3765.6	3771.6	3771.6	3771.6	3761.5	3763.6	3765.6
20°	4034.8	4038.8	4034.8	4026.8	4024.8	4030.8	4016.7	4038.8	4026.8	4018.7	4022.8
22.5°	4306.1	4320.1	4304.1	4306.1	4316.1	4320.1	4306.1	4324.2	4318.1	4306.1	4316.1
25°	4601.5	4611.5	4603.5	4601.5	4607.5	4621.6	4619.5	4617.5	4631.6	4619.5	4625.6
27.5°	4904.9	4910.9	4914.9	4920.9	4925.0	4923.0	4931.0	4931.0	4939.0	4925.0	4931.0
30°	5206.3	5206.3	5214.3	5222.4	5222.4	5222.4	5238.4	5240.4	5228.4	5232.4	5218.3
32.5°	5527.8	5529.8	5537.8	5537.8	5553.9	5555.9	5574.0	5549.9	5574.0	5553.9	5557.9
35°	5905.5	5931.7	5935.7	5955.8	5971.8	5977.9	5977.9	5979.9	6002.0	5985.9	5991.9
37.5°	6126.6	6132.6	6148.7	6158.7	6158.7	6166.8	6172.8	6166.8	6172.8	6170.8	6176.8
40°	6387.8	6381.8	6399.8	6403.9	6395.8	6405.9	6403.9	6397.8	6413.9	6401.9	6409.9
42.5°	6705.3	6671.1	6669.1	6685.2	6669.1	6677.1	6675.1	6661.1	6681.2	6687.2	6681.2
45°	7044.9	7026.8	6990.6	6990.6	6974.5	6968.5	6970.5	6968.5	6970.5	6994.6	7002.7
47.5°	7597.4	7486.9	7424.6	7366.4	7318.1	7316.1	7294.0	7306.1	7322.1	7362.3	7398.5
50°	8523.8	8268.6	8111.8	7967.2	7862.7	7826.5	7784.3	7780.3	7794.3	7840.6	7902.9
52.5°	10175.5	9821.8	9488.2	9178.8	8909.5	8702.6	8600.1	8545.9	8525.8	8572.0	8632.3
55°	13197.5	12530.4	12060.2	11746.8	11077.7	10794.3	10430.6	10263.9	10101.1	10117.2	10219.7
57.5°	18361.6	18002.0	17608.1	17059.6	16649.6	16155.3	15247.1	14740.7	14762.8	14881.4	14511.7
60°	25129.2	24765.5	24602.7	24104.4	23819.1	23620.2	23137.9	22298.0	22000.6	21944.3	21265.2
62.5°	27699.2	27785.6	27914.2	28054.8	28046.8	28133.2	27711.2	27438.0	27094.4	26648.3	25977.1
65°	27028.0	27247.1	27508.3	27886.0	28316.1	28633.5	28900.8	28868.6	28547.1	27952.4	27243.0
67.5°	24755.4	24972.5	25163.3	25669.7	26375.0	27020.0	27590.7	27978.5	27763.5	27271.2	26443.3
70°	21339.5	21496.2	21616.8	22056.9	22830.5	23618.1	24363.6	25014.7	24948.3	24351.6	23690.5
72.5°	15462.1	15841.9	16046.8	16016.7	16494.9	17377.0	17481.5	18038.1	18192.8	17549.8	16496.9
75°	7533.1	7539.2	7302.1	7223.7	7247.8	7400.5	7109.2	7127.2	7026.8	6570.6	6194.9
77.5°	2632.3	2559.9	2387.1	2182.2	1888.8	1613.5	1334.2	1213.7	1173.5	1054.9	972.5
80°	2268.6	2375.1	2340.9	2172.1	1862.7	1484.9	1109.2	821.8	701.3	659.1	618.9
82.5°	2576.0	2985.9	3247.1	3233.1	2809.1	2109.8	1316.1	755.5	538.5	472.2	434.0
85°	1436.7	1545.2	1575.3	1434.7	1191.6	813.8	454.1	319.5	271.3	247.2	223.0
87.5°	229.1	209.0	205.0	178.8	168.8	154.7	136.6	128.6	118.6	112.5	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: P159279

CATALOG NUMBER: VTS-E11-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2913.6	2911.6	2905.6	2899.5	2895.5	2893.5	2891.5	2887.5	2885.5	2883.4	2879.4
5°	2981.9	2977.9	2967.8	2957.8	2953.8	2947.7	2941.7	2937.7	2933.7	2931.7	2923.6
7.5°	3088.4	3084.4	3072.3	3064.3	3062.3	3046.2	3044.2	3038.2	3028.1	3026.1	3014.1
10°	3217.0	3215.0	3204.9	3198.9	3194.9	3186.9	3174.8	3164.8	3154.7	3154.7	3146.7
12.5°	3365.7	3357.7	3363.7	3349.6	3345.6	3337.6	3331.5	3329.5	3317.5	3307.4	3305.4
15°	3540.5	3530.5	3530.5	3526.4	3522.4	3514.4	3512.4	3514.4	3502.3	3506.4	3494.3
17.5°	3757.5	3761.5	3759.5	3759.5	3749.5	3749.5	3733.4	3753.5	3739.4	3749.5	3745.5
20°	4028.8	4030.8	4026.8	4032.8	4036.8	4034.8	4032.8	4030.8	4036.8	4044.9	4038.8
22.5°	4318.1	4318.1	4316.1	4338.2	4314.1	4332.2	4338.2	4326.2	4358.3	4354.3	4360.3
25°	4631.6	4631.6	4647.7	4665.8	4669.8	4655.7	4663.7	4653.7	4673.8	4689.9	4693.9
27.5°	4923.0	4949.1	4961.1	4949.1	4959.1	4981.2	4979.2	4979.2	4993.3	4989.3	5027.4
30°	5222.4	5238.4	5254.5	5246.5	5250.5	5278.6	5280.6	5282.6	5300.7	5326.8	5355.0
32.5°	5563.9	5580.0	5572.0	5598.1	5596.1	5630.3	5636.3	5642.3	5698.6	5688.5	5746.8
35°	5983.9	6000.0	5991.9	6020.1	6016.1	6028.1	6050.2	6074.3	6084.4	6142.6	6188.9
37.5°	6180.8	6180.8	6198.9	6231.1	6243.1	6263.2	6297.4	6327.5	6377.7	6440.0	6512.4
40°	6417.9	6424.0	6448.1	6482.2	6504.3	6550.5	6612.8	6655.0	6731.4	6799.7	6884.1
42.5°	6705.3	6731.4	6759.5	6805.7	6854.0	6926.3	7014.7	7069.0	7169.4	7257.8	7362.3
45°	7040.8	7067.0	7133.3	7217.7	7288.0	7368.4	7440.7	7569.3	7659.7	7752.2	7842.6
47.5°	7446.7	7523.1	7577.3	7677.8	7764.2	7870.7	7961.1	8081.7	8180.1	8292.7	8369.0
50°	7967.2	8061.6	8131.9	8262.5	8346.9	8465.5	8580.0	8670.4	8770.9	8881.4	8943.7
52.5°	8714.6	8811.1	8899.5	9062.3	9166.7	9247.1	9399.8	9512.4	9604.8	9685.2	9753.5
55°	10334.2	10306.1	10551.2	10866.7	10902.8	11194.2	11248.5	11342.9	11513.7	11537.8	11728.7
57.5°	14961.8	14817.1	15172.8	15634.9	15554.5	15407.9	16020.7	16058.9	15972.5	16203.6	15942.3
60°	21365.6	21112.5	21208.9	21335.5	21152.6	21066.2	21096.4	21182.8	21098.4	21006.0	20752.8
62.5°	25641.6	25251.8	24972.5	24737.4	24440.0	24225.0	23983.8	23686.5	23606.1	23268.5	22985.2
65°	26553.8	25947.0	25504.9	25060.9	24651.0	24271.2	23907.5	23652.3	23314.7	22914.9	22619.5
67.5°	25551.2	24799.7	24152.6	23507.6	23043.5	22484.9	22211.6	21795.6	21379.7	20921.6	20650.3
70°	22637.6	21853.9	21040.1	20409.2	19778.2	19087.0	18952.4	18460.1	18221.0	17596.1	17487.6
72.5°	15624.9	15102.4	14738.7	13959.1	13575.3	13221.7	13109.1	12653.0	12701.2	12016.0	12265.2
75°	5555.9	5481.6	5375.1	4935.0	4856.6	4720.0	4683.8	4651.7	4977.2	4525.1	4852.6
77.5°	954.5	948.4	894.2	868.0	918.3	886.1	894.2	878.1	972.5	986.6	964.5
80°	592.8	576.7	558.6	546.5	548.6	536.5	538.5	542.5	548.6	546.5	552.6
82.5°	405.9	391.8	383.8	375.8	387.8	391.8	401.9	411.9	428.0	438.0	450.1
85°	221.0	202.9	202.9	200.9	217.0	229.1	245.1	265.2	293.4	317.5	343.6
87.5°	112.5	108.5	110.5	114.5	128.6	138.6	158.7	176.8	200.9	227.1	251.2
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: P159279

CATALOG NUMBER: VTS-E11-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2877.4	2877.4	2875.4	2875.4	2873.4	2871.4	2869.4	2863.4	2841.3	2821.2	2807.1
5°	2921.6	2915.6	2913.6	2907.6	2905.6	2901.5	2895.5	2889.5	2849.3	2813.1	2787.0
7.5°	3012.0	3004.0	3000.0	2994.0	2987.9	2979.9	2971.9	2965.8	2917.6	2875.4	2843.3
10°	3130.6	3126.6	3124.6	3116.5	3116.5	3104.5	3102.5	3088.4	3036.2	2998.0	2969.8
12.5°	3295.4	3287.3	3285.3	3275.3	3279.3	3275.3	3271.3	3263.2	3225.0	3180.8	3142.7
15°	3500.3	3500.3	3490.3	3482.2	3484.2	3480.2	3488.3	3478.2	3454.1	3413.9	3351.6
17.5°	3747.5	3743.5	3747.5	3741.4	3745.5	3749.5	3739.4	3741.4	3729.4	3679.2	3586.7
20°	4034.8	4028.8	4052.9	4042.9	4065.0	4044.9	4048.9	4054.9	4054.9	3988.6	3864.0
22.5°	4364.4	4360.3	4360.3	4380.4	4388.5	4390.5	4398.5	4404.5	4420.6	4336.2	4137.3
25°	4693.9	4708.0	4710.0	4736.1	4748.1	4748.1	4754.2	4776.3	4824.5	4708.0	4450.8
27.5°	5029.5	5063.6	5071.7	5089.7	5107.8	5125.9	5140.0	5156.0	5234.4	5107.8	4772.3
30°	5365.0	5403.2	5431.3	5451.4	5473.5	5517.7	5525.8	5557.9	5688.5	5533.8	5077.7
32.5°	5758.9	5813.1	5849.3	5875.4	5909.6	5951.8	5975.9	6016.1	6142.6	5889.5	5300.7
35°	6229.0	6261.2	6313.4	6357.6	6377.7	6450.1	6488.3	6498.3	6594.8	6196.9	5465.5
37.5°	6554.6	6608.8	6699.2	6761.5	6797.7	6837.9	6902.2	6944.4	7036.8	6476.2	5547.9
40°	6968.5	7050.9	7123.2	7215.7	7273.9	7304.1	7368.4	7402.5	7414.6	6715.3	5521.8
42.5°	7472.8	7547.2	7643.6	7718.0	7762.2	7796.4	7848.6	7862.7	7705.9	6827.8	5381.1
45°	7947.1	8061.6	8144.0	8198.2	8230.4	8248.5	8280.6	8282.6	7947.1	6771.6	5140.0
47.5°	8457.4	8539.8	8616.2	8654.4	8650.3	8654.4	8642.3	8634.3	8067.6	6576.7	4830.5
50°	9022.1	9076.3	9108.5	9126.6	9136.6	9098.4	9044.2	9008.0	8077.7	6299.4	4517.1
52.5°	9779.6	9847.9	9841.9	9839.9	9759.5	9723.3	9578.7	9504.3	8019.4	5973.9	4163.4
55°	11698.6	11632.2	11501.6	11565.9	11238.4	11067.6	10842.6	10633.6	8095.8	5664.4	3753.5
57.5°	16046.8	16073.0	15701.2	15502.3	14949.7	14258.5	13701.9	13161.4	8783.0	5475.5	3219.0
60°	20584.0	20242.4	19770.2	19050.8	18339.5	17312.7	16322.1	15385.8	9468.2	5278.6	2586.1
62.5°	22565.2	22079.0	21365.6	20435.3	19318.1	18062.2	16828.5	15687.2	9136.6	4641.6	1880.8
65°	22163.4	21419.9	20632.2	19543.1	18184.8	16808.4	15367.7	14202.2	7643.6	3462.1	1159.4
67.5°	20061.6	19430.6	18598.7	17306.7	15853.9	14421.3	13101.1	11795.0	5678.5	2158.1	649.0
70°	16933.0	16316.1	15472.2	14150.0	12699.2	11328.8	9930.3	8865.3	3618.9	1040.9	468.2
72.5°	11746.8	11246.4	10649.7	9707.3	8435.3	7189.5	6243.1	5425.3	2005.4	552.6	428.0
75°	4770.2	4772.3	4663.7	4265.9	3604.8	3108.5	2650.4	2248.5	837.9	470.2	422.0
77.5°	1081.0	1099.1	1201.6	1139.3	1026.8	960.5	860.0	759.5	510.4	484.3	426.0
80°	546.5	548.6	542.5	544.5	538.5	540.5	532.5	526.5	478.2	498.3	426.0
82.5°	456.1	466.2	464.2	464.2	466.2	466.2	466.2	464.2	496.3	524.4	411.9
85°	361.7	381.8	397.9	413.9	432.0	444.1	450.1	456.1	482.2	516.4	373.7
87.5°	273.3	297.4	317.5	333.6	361.7	361.7	381.8	395.8	395.8	403.9	196.9
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: P159279

CATALOG NUMBER: VTS-E11-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2787.0	2779.0	2770.9	2766.9	2758.9
5°	2766.9	2750.8	2740.8	2740.8	2732.7
7.5°	2825.2	2819.1	2805.1	2797.0	2805.1
10°	2949.8	2939.7	2923.6	2911.6	2917.6
12.5°	3116.5	3076.3	3044.2	3030.1	3020.1
15°	3289.3	3209.0	3144.7	3108.5	3098.4
17.5°	3474.2	3333.5	3237.1	3182.8	3172.8
20°	3663.1	3488.3	3351.6	3281.3	3279.3
22.5°	3890.1	3657.1	3482.2	3389.8	3383.8
25°	4129.3	3807.8	3576.7	3458.1	3446.1
27.5°	4336.2	3928.3	3635.0	3494.3	3482.2
30°	4509.0	4018.7	3683.2	3520.4	3504.3
32.5°	4633.6	4071.0	3703.3	3528.5	3510.4
35°	4673.8	4050.9	3647.0	3456.1	3436.0
37.5°	4619.5	3920.3	3490.3	3279.3	3255.2
40°	4456.8	3691.2	3235.1	3018.1	2987.9
42.5°	4207.6	3409.9	2927.7	2720.7	2682.5
45°	3900.2	3092.4	2622.2	2391.2	2373.1
47.5°	3578.7	2758.9	2278.6	2069.7	2047.5
50°	3231.1	2373.1	1943.1	1716.0	1716.0
52.5°	2817.1	1997.3	1553.2	1382.4	1368.4
55°	2340.9	1573.3	1237.8	1107.2	1089.1
57.5°	1828.5	1209.6	988.6	912.3	892.2
60°	1344.3	908.2	795.7	753.5	745.5
62.5°	912.3	691.2	641.0	622.9	620.9
65°	616.9	538.5	524.4	518.4	520.4
67.5°	474.2	448.1	442.1	440.1	440.1
70°	411.9	395.8	389.8	391.8	389.8
72.5°	387.8	365.7	367.7	371.7	369.7
75°	379.8	351.6	359.7	361.7	353.6
77.5°	373.7	335.6	355.7	361.7	339.6
80°	361.7	321.5	369.7	371.7	333.6
82.5°	331.5	285.3	369.7	341.6	301.4
85°	281.3	217.0	417.9	297.4	223.0
87.5°	178.8	128.6	283.3	202.9	134.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)