

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: P159698

Luminaire Tested: **VTS-E09-LED-E1-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159698
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
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-T4-8030
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (189) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

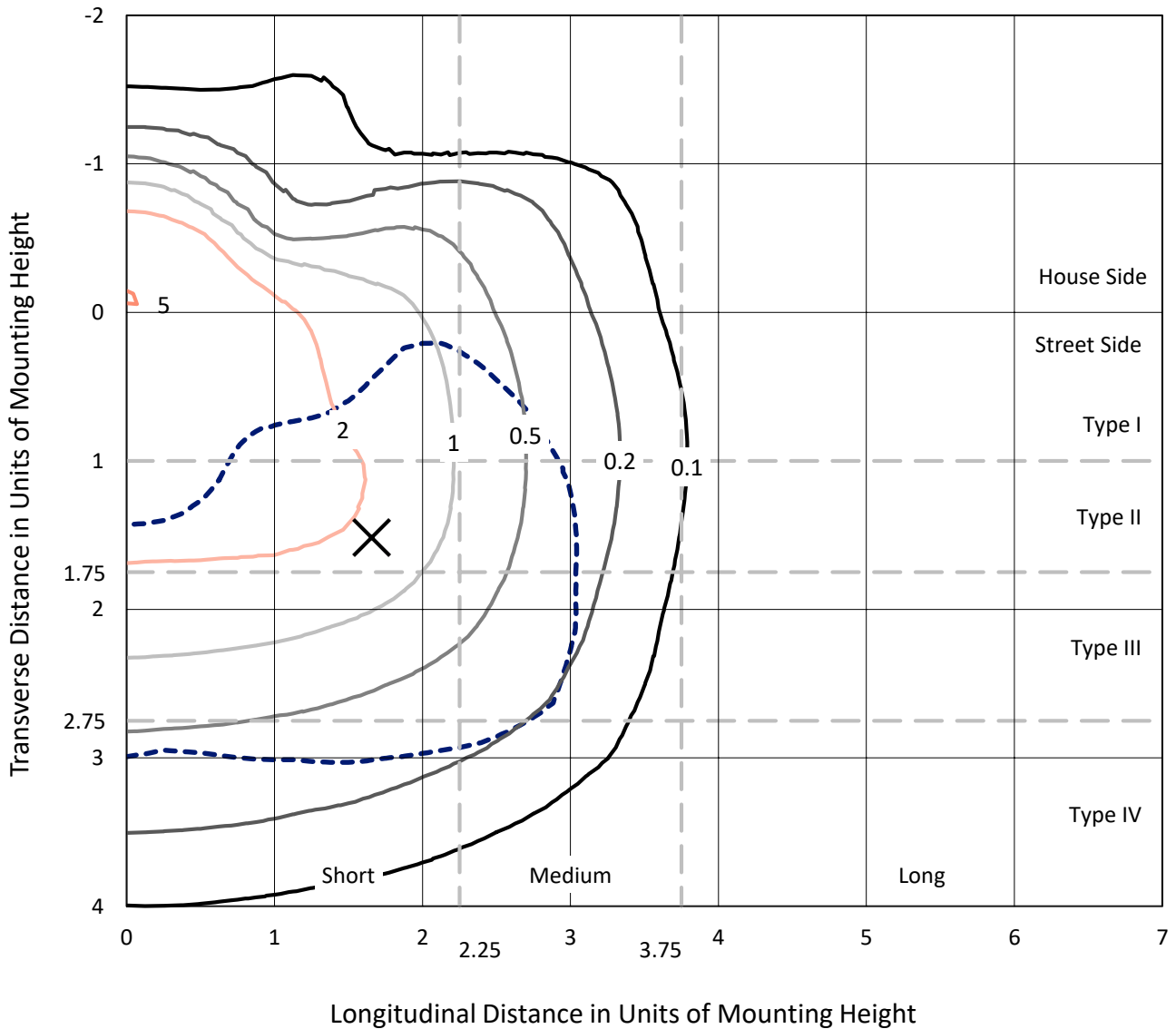
Lumens per Lamp: N/A
Luminaire Lumens: 22608.2 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225.7
Input Voltage (V): NR
Input Current (A_{in}): 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: P159698
 CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

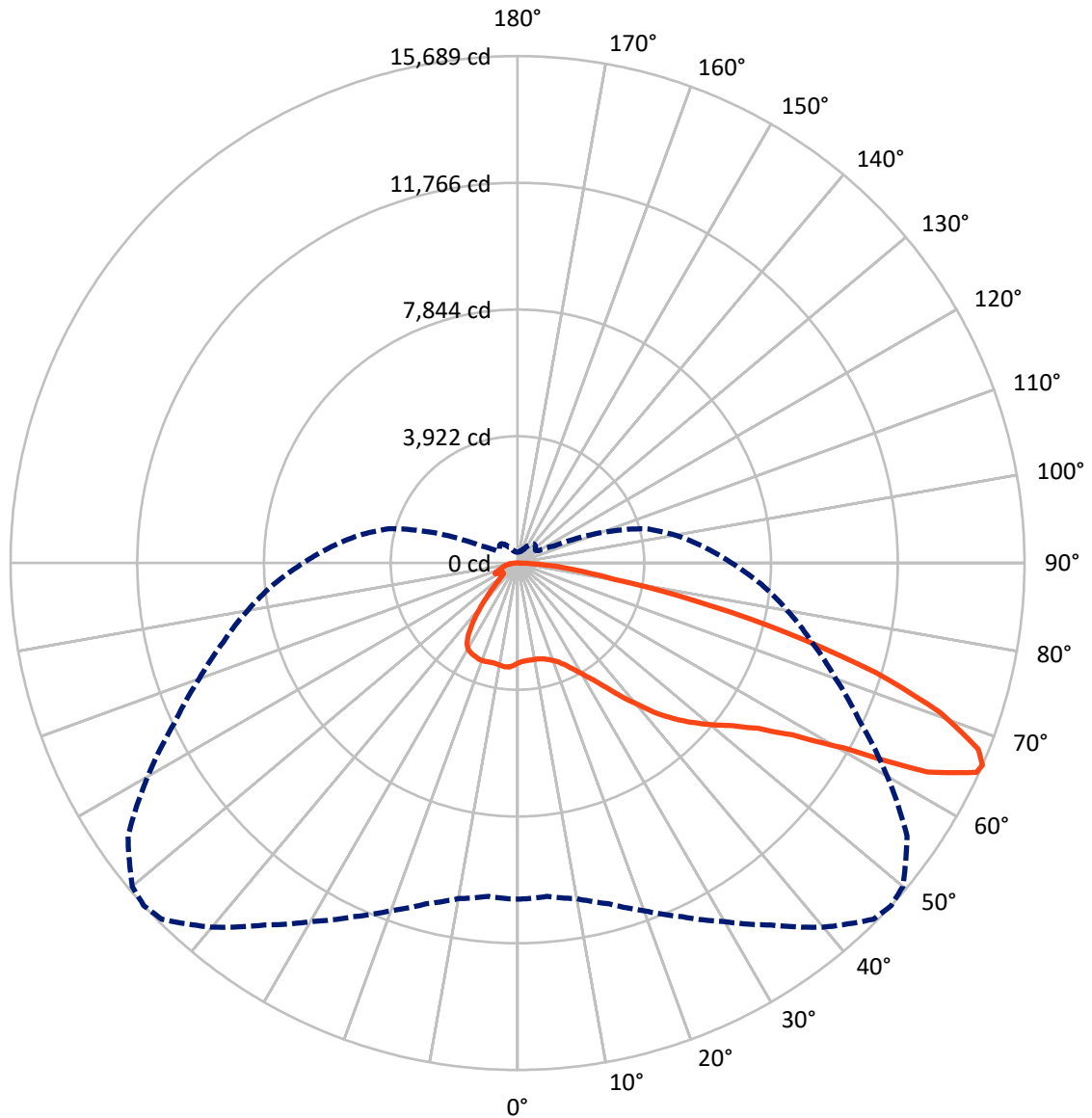


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P159698

CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P159698

CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4680.9	0.0	4680.9
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	17927.3	0.0	17927.3
	% Fixture	79.3	0.0	79.3
Total	Lumens	22608.2	0.0	22608.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	1.3
10°-20°	894.0	4.0
20°-30°	1525.4	6.7
30°-40°	2302.3	10.2
40°-50°	2992.5	13.2
50°-60°	4105.4	18.2
60°-70°	6315.4	27.9
70°-80°	3650.7	16.1
80°-90°	524.4	2.3
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°	22608.2	100.0
0°-180°	22608.2	100.0



REPORT NUMBER: P159698

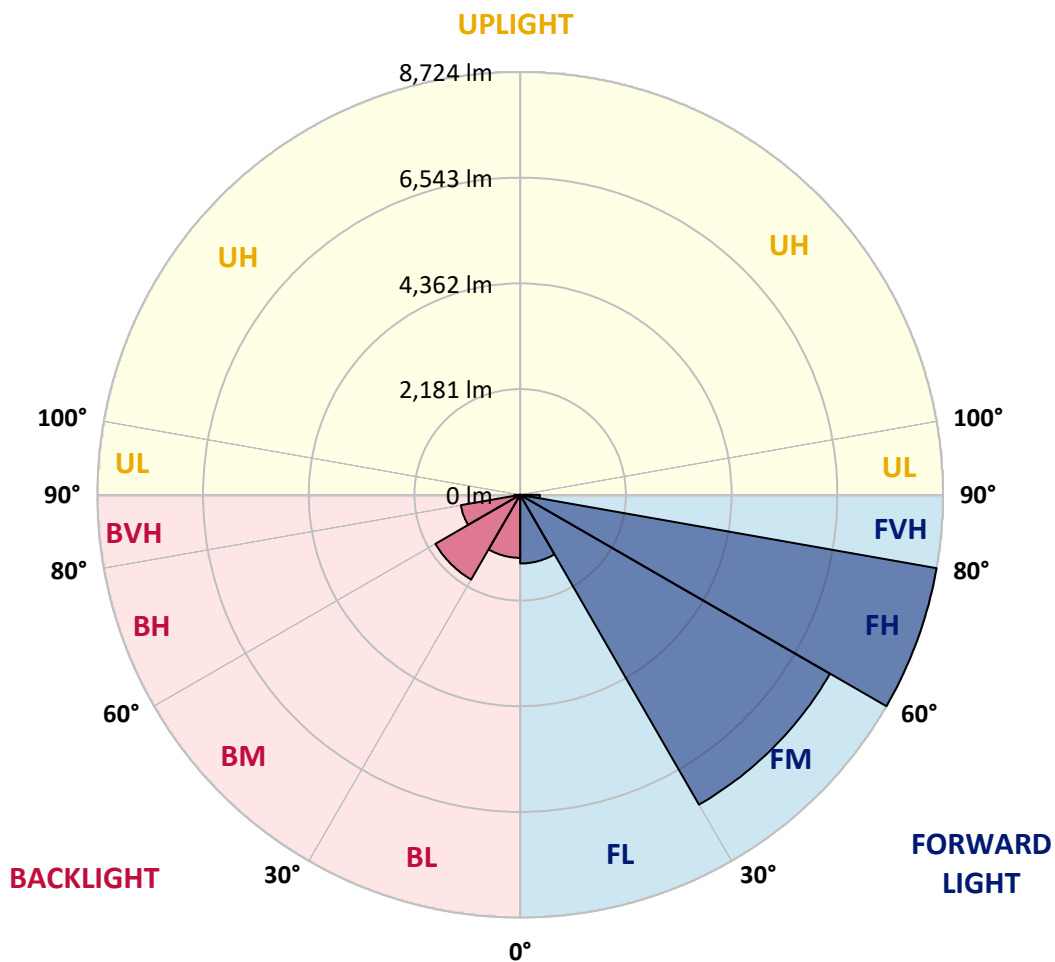
CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.1	6.3			
FM	(30°-60°)	7380.6	32.6			
FH	(60°-80°)	8723.7	38.6			G4/12000
FVH	(80°-90°)	405.9	1.8			G3/500
BL	(0°-30°)	1300.4	5.8	B3/2500		
BM	(30°-60°)	2019.6	8.9	B2/2500		
BH	(60°-80°)	1242.3	5.5	B3/2500		G3/2500
BVH	(80°-90°)	118.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P159698

CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1
2.5°	3014.1	3015.6	3017.1	3017.1	3021.7	3021.7	3029.3	3033.8	3035.3	3044.4	3044.4	3050.5
5°	2957.9	2956.3	2957.9	2960.9	2968.5	2974.6	2989.8	3000.4	3009.5	3024.7	3024.7	3032.3
7.5°	2933.5	2936.6	2939.6	2941.1	2947.2	2962.4	2976.1	2986.7	3004.9	3023.2	3023.2	3030.8
10°	2965.4	2970.0	2965.4	2968.5	2968.5	2982.2	2988.2	2995.8	3009.5	3026.2	3026.2	3030.8
12.5°	3039.9	3049.0	3039.9	3032.3	3026.2	3038.4	3035.3	3029.3	3036.8	3041.4	3041.4	3041.4
15°	3162.9	3162.9	3156.9	3146.2	3131.0	3132.6	3118.9	3105.2	3099.1	3088.5	3088.5	3080.9
17.5°	3283.0	3279.9	3266.2	3252.6	3241.9	3237.4	3217.6	3199.4	3178.1	3161.4	3161.4	3143.2
20°	3399.9	3412.1	3395.4	3375.6	3358.9	3348.3	3333.1	3296.6	3270.8	3243.5	3243.5	3225.2
22.5°	3602.0	3591.4	3573.1	3544.3	3527.5	3509.3	3477.4	3437.9	3398.4	3365.0	3365.0	3342.2
25°	3810.1	3799.5	3773.7	3752.4	3728.1	3712.9	3677.9	3629.3	3591.4	3539.7	3539.7	3509.3
27.5°	4033.4	4024.3	3993.9	3977.2	3960.5	3942.3	3911.9	3861.8	3826.8	3767.6	3767.6	3735.7
30°	4285.6	4284.1	4243.1	4240.0	4215.7	4196.0	4174.7	4132.2	4097.2	4038.0	4038.0	4000.0
32.5°	4554.5	4548.4	4519.6	4510.5	4527.2	4513.5	4483.1	4439.1	4393.5	4358.5	4358.5	4316.0
35°	4937.3	4926.7	4910.0	4917.6	4928.2	4966.2	4919.1	4881.1	4826.4	4780.9	4780.9	4721.6
37.5°	5216.9	5201.7	5221.4	5264.0	5324.7	5353.6	5394.6	5396.1	5370.3	5309.5	5309.5	5257.9
40°	5473.6	5467.5	5513.1	5572.4	5684.8	5766.8	5844.3	5882.3	5891.4	5851.9	5851.9	5774.4
42.5°	5690.9	5709.1	5769.9	5861.0	6019.0	6143.6	6287.9	6377.5	6433.7	6412.5	6412.5	6377.5
45°	5949.1	5958.2	6032.7	6148.1	6298.5	6505.1	6695.0	6847.0	6945.7	6944.2	6944.2	6904.7
47.5°	6272.7	6274.2	6338.0	6473.2	6634.3	6843.9	7084.0	7286.0	7416.7	7422.7	7422.7	7392.3
50°	6657.1	6654.0	6723.9	6851.5	7023.2	7225.2	7480.5	7732.6	7914.9	7914.9	7914.9	7870.9
52.5°	7152.3	7146.2	7184.2	7296.6	7462.2	7674.9	7928.6	8220.3	8417.8	8460.3	8460.3	8364.6
55°	7813.2	7822.3	7831.4	7930.1	8071.4	8240.1	8531.7	8800.6	9065.0	9089.3	9089.3	9033.1
57.5°	8577.3	8546.9	8612.3	8773.3	8934.3	9145.5	9352.1	9669.6	9982.6	10035.7	10035.7	10028.1
60°	9771.4	9731.9	9798.7	10003.8	10181.6	10514.3	10868.2	11278.4	11649.1	11758.5	11758.5	11626.3
62.5°	10869.8	10918.4	11009.5	11248.0	11506.3	11949.9	12481.6	13185.0	13888.4	14271.2	14271.2	14243.9
65°	10771.0	10725.4	10900.1	11225.2	11693.2	12258.3	12919.1	13766.8	14780.1	15548.8	15548.8	15617.2
66°	10404.9	10357.8	10546.2	10918.4	11453.1	12082.1	12815.8	13678.7	14714.8	15583.8	15583.8	15688.6
67.5°	9800.3	9753.2	9965.8	10304.6	10856.1	11647.6	12440.6	13384.0	14461.1	15293.6	15293.6	15378.7
70°	8633.5	8569.7	8735.3	9118.1	9564.8	10330.4	11085.5	12085.1	13191.1	13856.5	13856.5	13888.4
72.5°	7313.4	7164.5	7340.7	7635.4	7954.4	8587.9	9245.8	9929.4	10810.5	11425.8	11425.8	11602.0
75°	5306.5	5384.0	5435.6	5630.1	5841.3	6365.4	6751.3	7324.0	8006.1	8451.2	8451.2	8592.5
77.5°	2815.0	2932.0	3004.9	3199.4	3548.8	3948.4	4366.1	4720.1	5168.3	5417.4	5417.4	5590.6
80°	1580.0	1662.0	1780.5	1933.9	2104.1	2410.9	2658.6	2840.9	2904.7	2948.7	2948.7	2988.2
82.5°	869.0	1077.1	1253.3	1359.7	1459.9	1583.0	1730.4	1882.3	1930.9	1858.0	1858.0	1820.0
85°	135.2	199.0	606.2	739.8	805.2	899.4	1005.7	1118.1	1119.6	963.2	963.2	1051.3
87.5°	38.0	42.5	86.6	130.6	127.6	103.3	127.6	232.4	136.7	68.4	68.4	79.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159698

CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1
2.5°	3053.6	3056.6	3064.2	3071.8	3079.4	3087.0	3091.5	3099.1	3105.2	3114.3	3125.0
5°	3041.4	3049.0	3062.7	3079.4	3094.6	3108.2	3118.9	3134.1	3147.7	3159.9	3178.1
7.5°	3041.4	3056.6	3079.4	3097.6	3111.3	3128.0	3144.7	3159.9	3175.1	3187.2	3199.4
10°	3042.9	3058.1	3080.9	3102.2	3117.4	3135.6	3149.3	3162.9	3179.7	3187.2	3202.4
12.5°	3049.0	3055.1	3071.8	3093.1	3111.3	3129.5	3143.2	3156.9	3175.1	3178.1	3188.8
15°	3079.4	3070.3	3074.8	3090.0	3109.8	3125.0	3140.2	3150.8	3162.9	3159.9	3169.0
17.5°	3135.6	3112.8	3103.7	3105.2	3114.3	3125.0	3131.0	3132.6	3134.1	3120.4	3121.9
20°	3211.6	3179.7	3158.4	3147.7	3135.6	3125.0	3108.2	3088.5	3070.3	3042.9	3039.9
22.5°	3325.5	3278.4	3255.6	3226.7	3190.3	3144.7	3103.7	3055.1	3015.6	2974.6	2959.4
25°	3491.1	3442.5	3418.2	3372.6	3307.3	3241.9	3182.7	3117.4	3059.6	3011.0	2988.2
27.5°	3712.9	3664.3	3638.4	3591.4	3510.8	3445.5	3363.5	3293.6	3223.7	3152.3	3123.4
30°	3981.8	3939.2	3910.4	3872.4	3802.5	3731.1	3635.4	3527.5	3416.6	3302.7	3246.5
32.5°	4299.3	4252.2	4230.9	4186.9	4113.9	4039.5	3933.2	3794.9	3609.6	3430.3	3317.9
35°	4695.8	4642.6	4618.3	4560.6	4475.5	4366.1	4252.2	4066.9	3816.2	3567.0	3383.2
37.5°	5226.0	5107.5	5027.0	4894.8	4758.1	4604.6	4442.1	4252.2	3956.0	3647.6	3392.3
40°	5695.4	5575.4	5420.4	5230.5	5017.9	4806.7	4621.4	4405.6	4083.6	3705.3	3363.5
42.5°	6278.8	6066.1	5818.5	5561.7	5279.2	5019.4	4799.1	4545.4	4170.2	3720.5	3283.0
45°	6812.0	6558.3	6227.1	5885.3	5534.4	5207.8	4960.1	4677.6	4244.6	3720.5	3185.7
47.5°	7298.2	6994.3	6597.8	6172.4	5763.8	5406.8	5125.7	4812.8	4349.4	3767.6	3156.9
50°	7747.8	7398.4	6947.2	6453.5	5994.7	5613.4	5311.1	4986.0	4508.9	3889.1	3226.7
52.5°	8221.8	7851.1	7301.2	6777.1	6271.2	5862.5	5540.5	5200.2	4715.5	4080.5	3349.8
55°	8843.2	8408.7	7784.3	7207.0	6651.0	6199.8	5833.7	5456.9	4941.9	4296.3	3500.2
57.5°	9823.0	9192.6	8568.2	7817.7	7293.6	6699.6	6298.5	5865.6	5309.5	4577.3	3726.6
60°	11538.2	10763.4	10012.9	9150.0	8502.9	7881.5	7275.4	6710.2	6040.3	5212.3	4223.3
62.5°	13987.1	13200.2	12021.3	10965.5	9988.6	9165.2	8375.3	7656.7	6796.8	5891.4	4835.6
65°	15450.1	14549.2	13144.0	11725.1	10538.6	9517.7	8613.8	7734.2	6805.9	5923.3	5020.9
66°	15567.1	14714.8	13213.9	11714.4	10482.4	9423.5	8483.1	7573.1	6622.1	5777.5	4960.1
67.5°	15349.8	14616.1	13071.1	11507.8	10248.4	9104.5	8138.3	7184.2	6228.7	5446.3	4758.1
70°	13817.0	13286.8	11962.1	10497.6	9241.2	8232.5	7213.1	6295.5	5390.1	4732.3	4221.8
72.5°	11327.0	10655.6	9728.9	8744.4	7755.4	6860.6	5933.9	5153.1	4393.5	3914.9	3553.4
75°	8320.6	7715.9	6695.0	6081.3	5428.0	4865.9	4241.6	3501.7	2962.4	2722.4	2634.3
77.5°	5274.6	4618.3	3756.9	3079.4	2647.9	2275.7	1794.2	1426.5	1142.4	1189.5	1317.1
80°	2664.6	2295.5	1718.2	1356.6	1172.8	975.3	771.7	584.9	426.9	487.7	551.5
82.5°	1710.6	1428.0	1137.9	896.3	756.6	666.9	533.2	387.4	288.6	325.1	398.0
85°	1030.0	870.5	694.3	568.2	493.7	411.7	302.3	214.2	212.7	227.9	281.0
87.5°	156.5	223.3	129.1	138.2	145.8	156.5	138.2	117.0	101.8	132.2	167.1
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: P159698

CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1	3093.1
2.5°	3135.6	3138.6	3144.7	3152.3	3150.8	3161.4	3167.5	3161.4	3175.1	3175.1	3182.7
5°	3193.3	3197.9	3208.5	3216.1	3219.2	3228.3	3231.3	3229.8	3232.8	3234.3	3237.4
7.5°	3210.0	3222.2	3226.7	3231.3	3232.8	3235.9	3235.9	3232.8	3232.8	3231.3	3234.3
10°	3205.5	3210.0	3213.1	3211.6	3211.6	3208.5	3207.0	3205.5	3205.5	3202.4	3207.0
12.5°	3190.3	3190.3	3190.3	3187.2	3187.2	3185.7	3185.7	3185.7	3188.8	3190.3	3197.9
15°	3159.9	3159.9	3162.9	3161.4	3166.0	3173.6	3182.7	3188.8	3196.4	3197.9	3202.4
17.5°	3112.8	3114.3	3123.4	3143.2	3162.9	3185.7	3202.4	3207.0	3200.9	3185.7	3175.1
20°	3030.8	3050.5	3087.0	3134.1	3178.1	3207.0	3214.6	3196.4	3167.5	3128.0	3106.7
22.5°	2957.9	2997.3	3062.7	3140.2	3194.8	3214.6	3191.8	3149.3	3097.6	3052.0	3020.1
25°	2986.7	3032.3	3100.7	3167.5	3202.4	3191.8	3146.2	3085.5	3030.8	2977.6	2925.9
27.5°	3108.2	3153.8	3202.4	3222.2	3210.0	3170.5	3106.7	3041.4	2968.5	2892.5	2828.7
30°	3223.7	3249.5	3252.6	3232.8	3188.8	3125.0	3050.5	2974.6	2881.9	2790.7	2710.2
32.5°	3260.2	3229.8	3175.1	3118.9	3058.1	2992.8	2906.2	2805.9	2707.2	2603.9	2514.2
35°	3249.5	3126.5	2991.3	2871.3	2798.3	2723.9	2644.9	2511.2	2400.3	2312.2	2254.5
37.5°	3153.8	2929.0	2720.9	2546.2	2432.2	2344.1	2227.1	2116.2	2020.5	1981.0	1933.9
40°	3020.1	2676.8	2388.2	2143.6	2025.1	1912.7	1782.0	1696.9	1669.6	1633.1	1634.6
42.5°	2828.7	2382.1	2009.9	1728.8	1599.7	1476.6	1384.0	1333.8	1335.4	1305.0	1311.1
45°	2626.7	2085.8	1617.9	1338.4	1210.8	1106.0	1054.3	1039.1	1040.6	1042.2	1033.0
47.5°	2503.6	1854.9	1297.4	1014.8	902.4	843.1	815.8	808.2	809.7	811.2	800.6
50°	2485.4	1734.9	1083.2	776.3	703.4	670.0	656.3	648.7	648.7	642.6	633.5
52.5°	2537.0	1704.5	978.4	673.0	603.1	572.7	562.1	556.0	546.9	534.8	518.0
55°	2619.1	1731.9	946.5	638.1	569.7	539.3	525.6	522.6	507.4	484.6	457.3
57.5°	2771.0	1830.6	967.7	647.2	575.8	548.4	539.3	536.3	515.0	480.1	445.1
60°	3207.0	2117.7	1074.1	698.8	619.8	597.0	597.0	592.5	563.6	513.5	463.4
62.5°	3808.6	2538.6	1218.4	770.2	680.6	677.6	703.4	704.9	653.2	572.7	493.7
65°	4098.8	2736.0	1268.5	785.4	697.3	732.2	783.9	783.9	711.0	600.1	498.3
66°	4100.3	2731.5	1253.3	767.2	679.1	724.7	777.8	777.8	701.9	592.5	490.7
67.5°	3995.5	2646.4	1203.2	733.8	638.1	680.6	727.7	726.2	657.8	562.1	469.4
70°	3583.8	2341.1	1060.4	679.1	589.4	591.0	607.7	597.0	551.5	486.1	426.9
72.5°	3090.0	1958.2	919.1	644.1	551.5	522.6	508.9	499.8	470.9	431.4	395.0
75°	2369.9	1520.7	800.6	612.2	518.0	467.9	449.7	442.1	422.3	399.5	370.7
77.5°	1452.3	1042.2	679.1	560.6	480.1	434.5	414.7	399.5	379.8	358.5	338.8
80°	625.9	628.9	543.9	475.5	417.8	364.6	338.8	320.5	309.9	302.3	291.7
82.5°	437.5	451.2	414.7	369.2	319.0	281.0	258.3	253.7	255.2	255.2	252.2
85°	328.1	322.1	290.2	264.3	241.6	217.2	199.0	197.5	203.6	203.6	199.0
87.5°	189.9	191.4	164.1	153.4	159.5	136.7	124.6	126.1	141.3	139.8	136.7
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: P159698

CATALOG NUMBER: VTS-E09-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	3093.1	3093.1	3093.1	3093.1	3093.1
2.5°	3182.7	3187.2	3185.7	3190.3	3185.7
5°	3241.9	3240.4	3238.9	3245.0	3237.4
7.5°	3232.8	3234.3	3234.3	3234.3	3232.8
10°	3210.0	3216.1	3219.2	3225.2	3223.7
12.5°	3202.4	3211.6	3220.7	3229.8	3231.3
15°	3204.0	3210.0	3214.6	3219.2	3220.7
17.5°	3164.5	3162.9	3158.4	3155.3	3152.3
20°	3083.9	3076.3	3068.8	3056.6	3062.7
22.5°	2983.7	2962.4	2938.1	2918.4	2916.8
25°	2866.7	2827.2	2787.7	2761.9	2752.8
27.5°	2763.4	2716.3	2675.3	2652.5	2646.4
30°	2640.3	2597.8	2561.3	2541.6	2529.4
32.5°	2458.0	2424.6	2379.0	2363.8	2362.3
35°	2204.3	2178.5	2146.6	2140.5	2132.9
37.5°	1917.2	1908.1	1892.9	1874.7	1871.6
40°	1610.3	1616.4	1611.9	1601.2	1584.5
42.5°	1314.1	1324.7	1326.2	1333.8	1341.4
45°	1046.7	1055.8	1055.8	1063.4	1072.5
47.5°	803.6	797.6	802.1	809.7	814.3
50°	607.7	603.1	595.5	589.4	583.4
52.5°	489.2	480.1	458.8	452.7	446.6
55°	431.4	414.7	399.5	393.5	393.5
57.5°	414.7	393.5	376.8	369.2	366.1
60°	417.8	387.4	366.1	354.0	349.4
62.5°	431.4	388.9	360.0	346.4	341.8
65°	429.9	385.9	358.5	343.3	338.8
66°	422.3	381.3	355.5	341.8	338.8
67.5°	410.2	375.2	352.5	340.3	335.7
70°	385.9	363.1	346.4	335.7	331.2
72.5°	366.1	350.9	335.7	323.6	320.5
75°	347.9	332.7	319.0	313.0	308.4
77.5°	320.5	306.9	299.3	293.2	290.2
80°	284.1	275.0	265.9	259.8	255.2
82.5°	247.6	235.5	226.4	221.8	218.8
85°	202.1	194.5	180.8	171.7	170.1
87.5°	135.2	127.6	123.1	115.5	107.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)