

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: P158405

Luminaire Tested: **VTS-F11-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158405
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F11-LED-E1-SL3
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (77) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

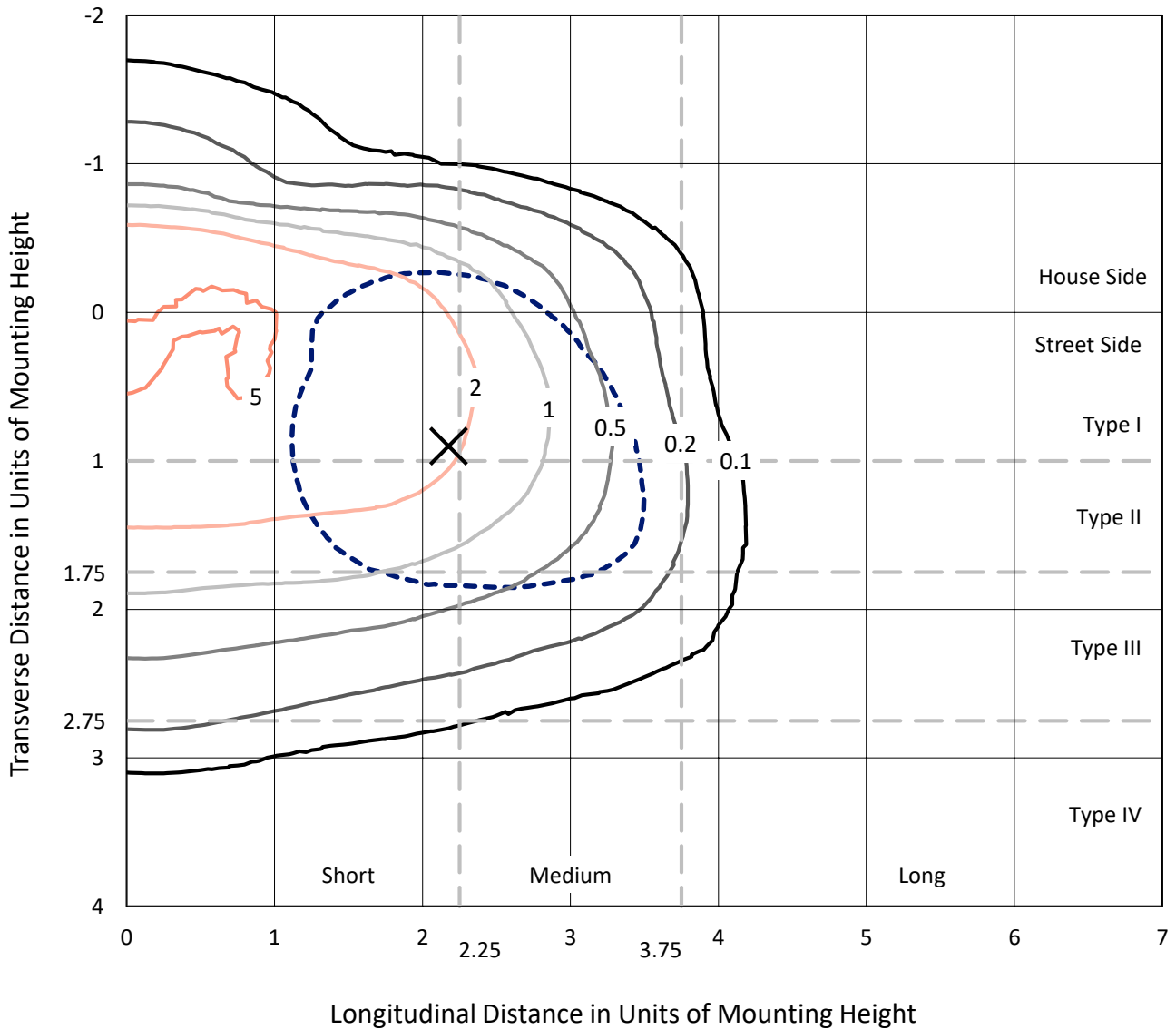
Lumens per Lamp: N/A
Luminaire Lumens: 27395.5 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 282.7
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: P158405
 CATALOG NUMBER: VTS-F11-LED-E1-SL3

Iso-Footcandle Lines of Horizontal Illumination

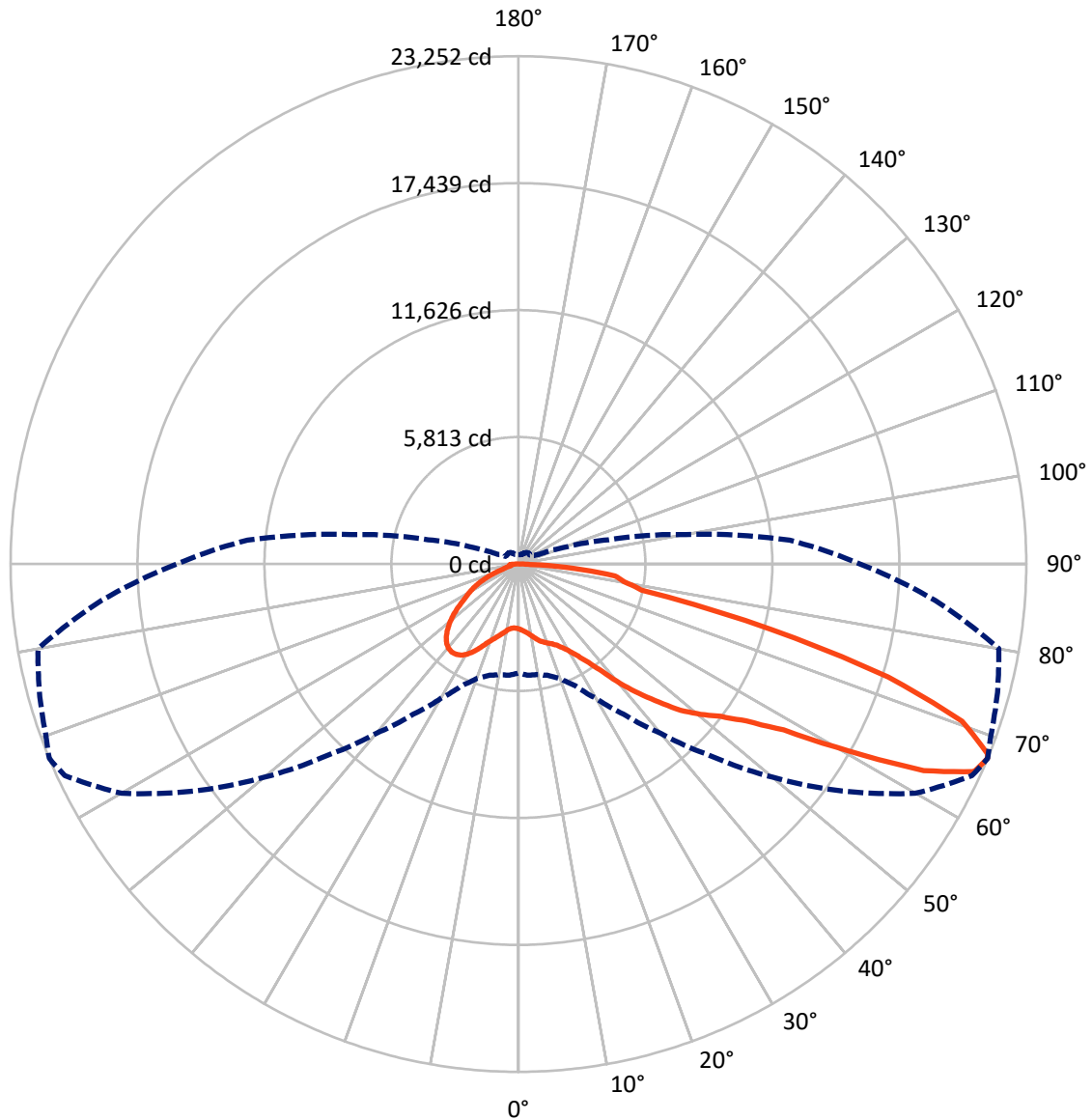
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P158405
CATALOG NUMBER: VTS-F11-LED-E1-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P158405

CATALOG NUMBER: VTS-F11-LED-E1-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6572.2	0.0	6572.2
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	20823.3	0.0	20823.3
	% Fixture	76.0	0.0	76.0
Total	Lumens	27395.5	0.0	27395.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	1.1
10°-20°	1005.5	3.7
20°-30°	1795.1	6.6
30°-40°	2630.8	9.6
40°-50°	4065.0	14.8
50°-60°	5919.4	21.6
60°-70°	7711.0	28.1
70°-80°	3451.7	12.6
80°-90°	521.9	1.9
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°	27395.5	100.0
0°-180°	27395.5	100.0



REPORT NUMBER: P158405

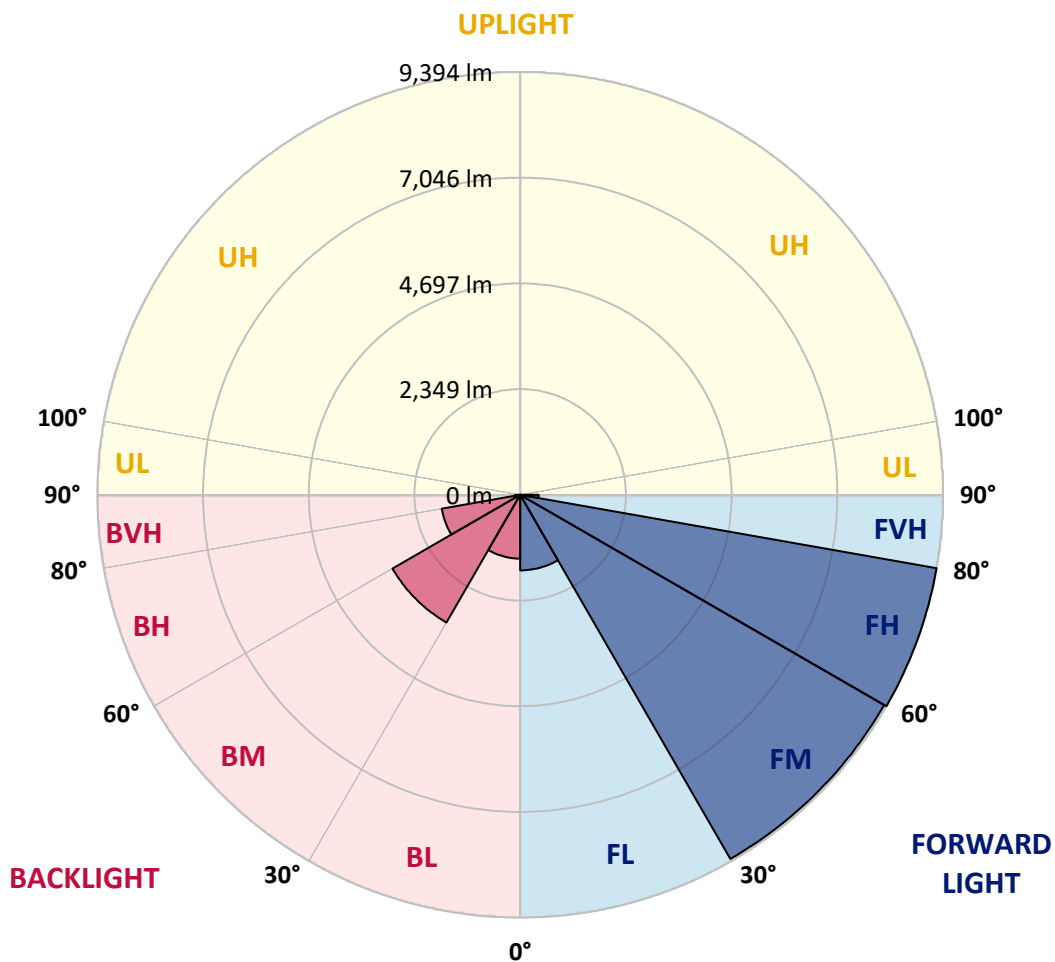
CATALOG NUMBER: VTS-F11-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.5	6.1			
FM	(30°-60°)	9340.4	34.1			
FH	(60°-80°)	9394.5	34.3			G4/12000
FVH	(80°-90°)	409.8	1.5			G3/500
BL	(0°-30°)	1417.2	5.2	B3/2500		
BM	(30°-60°)	3274.8	12.0	B3/5000		
BH	(60°-80°)	1768.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	112.1	0.4			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 III Short





REPORT NUMBER: P158405

CATALOG NUMBER: VTS-F11-LED-E1-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4
2.5°	3085.6	3092.9	3094.7	3092.9	3094.7	3087.5	3085.6	3074.8	3080.2	3065.7	3062.0
5°	3252.7	3258.2	3261.8	3247.3	3250.9	3243.7	3234.6	3223.7	3209.1	3189.2	3176.5
7.5°	3416.2	3425.3	3423.5	3418.0	3405.3	3398.0	3379.9	3363.5	3338.1	3314.5	3298.1
10°	3635.9	3634.1	3634.1	3603.3	3585.1	3568.7	3536.1	3510.6	3485.2	3450.7	3432.5
12.5°	3890.2	3877.5	3872.0	3850.2	3812.1	3783.1	3735.8	3686.8	3641.4	3605.1	3576.0
15°	4135.4	4135.4	4120.9	4086.3	4050.0	4011.9	3944.7	3873.9	3799.4	3741.3	3712.2
17.5°	4358.8	4338.8	4326.1	4280.7	4242.5	4180.8	4106.3	4030.0	3937.4	3855.7	3799.4
20°	4522.2	4505.9	4478.6	4422.3	4357.0	4284.3	4197.1	4108.1	4008.3	3919.3	3855.7
22.5°	4616.7	4596.7	4554.9	4480.5	4391.5	4289.8	4188.1	4104.5	4013.7	3946.5	3893.8
25°	4665.7	4645.7	4589.4	4491.4	4371.5	4237.1	4120.9	4039.1	3986.5	3970.1	3962.8
27.5°	4663.9	4647.5	4587.6	4475.0	4320.6	4166.3	4040.9	3971.9	3966.5	4030.0	4077.3
30°	4616.7	4605.8	4551.3	4438.7	4277.0	4115.4	3999.2	3962.8	4019.2	4153.5	4269.8
32.5°	4569.4	4564.0	4525.9	4424.2	4286.1	4149.9	4070.0	4073.6	4189.9	4396.9	4584.0
35°	4574.9	4582.2	4576.7	4522.2	4435.1	4364.2	4326.1	4406.0	4587.6	4838.2	5088.9
37.5°	4622.1	4649.4	4683.9	4689.3	4691.1	4680.2	4760.1	4929.0	5194.2	5521.1	5913.4
40°	4725.6	4756.5	4856.4	4943.6	5056.2	5190.6	5352.2	5586.5	5915.2	6318.4	6799.7
42.5°	5047.1	5090.7	5214.2	5375.8	5582.9	5793.5	6035.1	6354.7	6757.9	7182.9	7687.8
45°	5466.6	5557.4	5693.6	5873.4	6184.0	6480.0	6792.4	7150.2	7578.8	8110.9	8619.5
47.5°	5989.7	6080.5	6278.4	6471.0	6837.8	7206.5	7547.9	7922.1	8387.0	8931.8	9494.9
50°	6447.3	6550.9	6727.0	6986.7	7411.7	7864.0	8241.7	8646.7	9037.2	9611.1	10179.5
52.5°	6806.9	6881.4	7050.3	7288.2	7762.2	8258.1	8735.7	9186.1	9649.2	10223.1	10749.8
55°	6852.4	6921.4	7086.6	7359.1	7840.3	8390.6	8940.9	9474.9	10130.5	10757.1	11454.5
57.5°	6656.2	6712.5	6879.6	7123.0	7591.5	8218.1	8913.7	9598.4	10437.4	11283.8	12135.5
60°	6378.3	6434.6	6565.4	6759.7	7182.9	7858.5	8670.3	9607.5	10722.6	11944.9	13198.0
62.5°	6073.2	6122.3	6227.6	6365.6	6737.9	7360.9	8290.7	9547.5	10955.0	12602.3	14534.7
65°	5559.2	5677.3	5722.7	5864.4	6236.7	6825.1	7771.3	9142.5	10860.6	12894.7	15373.8
67°	4990.8	5110.7	5134.3	5277.7	5575.6	6140.4	7103.0	8392.5	10112.4	12389.8	15188.5
67.5°	4809.2	4910.9	4947.2	5090.7	5372.2	5904.3	6817.8	8121.8	9883.5	12113.8	14965.1
70°	3536.1	3648.7	3688.6	3748.5	3950.1	4393.3	4998.1	6129.5	7880.3	9885.3	12624.1
72.5°	1892.4	1983.2	2021.4	2110.4	2213.9	2455.4	2918.6	3730.4	4836.4	6614.4	8980.9
75°	1280.4	1316.7	1344.0	1405.7	1512.9	1705.4	1908.8	2193.9	2862.3	3732.2	5110.7
77.5°	730.1	746.4	750.1	761.0	846.3	1029.8	1363.9	1847.0	2368.3	2704.3	3269.1
80°	316.0	348.7	374.1	357.8	352.3	390.5	488.5	728.3	1427.5	2266.6	2689.7
82.5°	170.7	185.2	207.0	208.9	219.8	232.5	252.4	299.7	421.3	850.0	1854.3
85°	89.0	92.6	123.5	141.7	150.7	158.0	161.6	179.8	207.0	263.3	461.3
87.5°	12.7	18.2	21.8	29.1	32.7	34.5	40.0	50.9	59.9	72.6	123.5
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: P158405

CATALOG NUMBER: VTS-F11-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4
2.5°	3045.7	3042.1	3031.2	3023.9	3016.6	3009.4	3000.3	2993.0	2980.3	2971.2	2960.3
5°	3158.3	3136.5	3122.0	3102.0	3098.4	3074.8	3051.1	3040.2	3018.4	3000.3	2978.5
7.5°	3272.7	3247.3	3223.7	3207.3	3198.2	3165.6	3141.9	3114.7	3089.3	3065.7	3040.2
10°	3407.1	3381.7	3356.3	3345.4	3329.0	3298.1	3278.2	3243.7	3218.2	3189.2	3154.7
12.5°	3547.0	3528.8	3510.6	3496.1	3488.8	3474.3	3445.2	3416.2	3381.7	3352.6	3312.7
15°	3670.4	3657.7	3650.5	3646.8	3646.8	3637.8	3610.5	3583.3	3547.0	3514.3	3470.7
17.5°	3757.6	3752.2	3757.6	3763.1	3770.3	3763.1	3757.6	3726.7	3703.1	3663.2	3619.6
20°	3808.5	3819.4	3846.6	3864.8	3881.1	3893.8	3899.3	3873.9	3843.0	3813.9	3784.9
22.5°	3863.0	3893.8	3941.1	3968.3	3995.5	4040.9	4051.8	4033.7	4010.1	3991.9	3961.0
25°	3953.8	3999.2	4080.9	4124.5	4162.6	4229.8	4238.9	4242.5	4237.1	4222.6	4184.4
27.5°	4095.4	4184.4	4293.4	4349.7	4391.5	4478.6	4513.1	4513.1	4498.6	4515.0	4515.0
30°	4342.4	4460.5	4602.1	4634.8	4700.2	4776.5	4832.8	4840.1	4841.9	4876.4	4927.2
32.5°	4722.0	4834.6	4992.6	5028.9	5085.2	5157.9	5221.4	5214.2	5230.5	5305.0	5372.2
35°	5274.1	5388.5	5492.1	5541.1	5566.5	5631.9	5655.5	5695.5	5744.5	5837.1	5828.0
37.5°	6091.4	6193.1	6207.6	6238.5	6207.6	6220.3	6238.5	6285.7	6416.5	6500.0	6365.6
40°	7075.7	7244.6	7228.3	7192.0	7123.0	7030.3	7063.0	7135.7	7277.3	7204.7	6843.3
42.5°	8003.8	8178.1	8145.5	8103.7	7951.1	7916.6	7913.0	7972.9	8049.2	7842.2	7217.4
45°	8917.3	9095.3	9039.0	9015.4	8913.7	8839.2	8901.0	8904.6	8884.6	8441.5	7544.3
47.5°	9859.9	10023.4	9987.0	10007.0	9901.7	9852.6	9858.1	9832.7	9645.6	8950.0	7798.6
50°	10620.9	10840.6	10862.4	10817.0	10760.7	10686.3	10877.0	10807.9	10392.0	9444.0	8043.7
52.5°	11212.9	11509.0	11621.6	11592.5	11547.1	11556.2	11914.0	11992.1	11303.7	10066.9	8314.4
55°	11914.0	12380.7	12564.2	12673.1	12625.9	12807.5	13626.6	13666.6	12571.4	10880.6	8666.7
57.5°	12925.6	13593.9	14173.3	14327.6	14476.6	15066.8	16396.2	15991.2	14216.9	12111.9	9113.5
60°	14463.9	15927.7	16868.4	17362.4	17711.1	18535.7	19799.7	18773.6	16267.3	13577.6	9674.7
62.5°	16617.8	18757.2	20330.0	20825.8	20969.3	21443.3	22358.7	20395.4	17384.2	14235.0	9723.7
65°	18221.5	20787.7	22671.1	22925.3	22754.6	22763.7	23003.4	20310.1	16968.3	13661.1	8881.0
67°	18116.1	20989.3	22918.1	23252.2	23016.1	22705.6	22331.4	19153.2	15631.6	12458.8	7776.8
67.5°	17954.5	20795.0	22810.9	23163.2	22947.1	22593.0	22046.3	18704.6	15215.7	12084.7	7551.6
70°	15520.9	18341.3	21056.5	21552.3	21643.1	21319.8	19785.2	15771.5	12353.5	9830.8	5864.4
72.5°	12081.1	14592.8	17278.9	17709.3	18058.0	17126.3	14400.3	10893.3	9004.5	7084.8	4246.2
75°	7976.6	10531.9	11886.7	11950.3	11505.3	9780.0	7035.8	5455.7	5021.7	4164.4	2628.0
77.5°	4268.0	6193.1	6231.2	5769.9	5559.2	4144.5	1681.8	928.1	1033.4	1173.2	1046.1
80°	3183.7	3944.7	4571.3	4914.5	5016.2	3554.2	869.9	492.2	430.4	392.3	386.8
82.5°	2871.3	3810.3	4271.6	4458.7	4411.4	2924.0	488.5	330.5	274.2	297.8	339.6
85°	1126.0	2034.1	2675.2	2589.8	2175.8	1089.7	267.0	178.0	178.0	257.9	334.2
87.5°	230.7	417.7	566.6	541.2	486.7	210.7	130.8	107.2	109.0	208.9	316.0
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: P158405
 CATALOG NUMBER: VTS-F11-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4	2969.4
2.5°	2949.4	2938.5	2931.3	2924.0	2916.7	2913.1	2907.7	2907.7	2896.8	2893.1	2889.5
5°	2962.1	2944.0	2931.3	2914.9	2902.2	2891.3	2876.8	2873.2	2860.4	2851.4	2847.7
7.5°	3016.6	2989.4	2962.1	2942.2	2924.0	2900.4	2884.1	2869.5	2856.8	2847.7	2836.8
10°	3120.2	3091.1	3053.0	3016.6	2993.0	2956.7	2931.3	2905.8	2891.3	2880.4	2865.9
12.5°	3272.7	3230.9	3185.5	3141.9	3102.0	3054.8	3029.3	2998.5	2980.3	2971.2	2960.3
15°	3428.9	3383.5	3327.2	3285.4	3240.0	3203.7	3180.1	3152.8	3138.3	3127.4	3120.2
17.5°	3588.7	3536.1	3496.1	3454.3	3432.5	3405.3	3374.4	3339.9	3298.1	3272.7	3238.2
20°	3752.2	3712.2	3688.6	3665.0	3639.6	3601.4	3539.7	3468.9	3390.8	3316.3	3245.5
22.5°	3942.9	3919.3	3915.6	3893.8	3841.2	3750.4	3635.9	3503.4	3370.8	3247.3	3151.0
25°	4211.7	4211.7	4193.5	4104.5	3981.0	3817.6	3625.0	3434.3	3258.2	3089.3	2962.1
27.5°	4549.5	4536.8	4447.8	4264.3	4042.8	3788.5	3530.6	3289.1	3063.9	2878.6	2715.2
30°	4921.8	4832.8	4642.1	4353.3	4021.0	3694.1	3378.0	3098.4	2833.2	2606.2	2413.7
32.5°	5308.6	5092.5	4749.2	4353.3	3944.7	3552.4	3187.4	2844.1	2540.8	2286.5	2057.7
35°	5659.1	5265.0	4774.7	4282.5	3795.8	3343.5	2920.4	2531.7	2168.5	1894.2	1643.6
37.5°	5977.0	5379.5	4747.4	4144.5	3579.6	3049.3	2553.5	2124.9	1714.5	1449.3	1235.0
40°	6184.0	5403.1	4634.8	3928.3	3270.9	2651.6	2103.1	1623.6	1298.6	1057.0	913.5
42.5°	6313.0	5357.7	4453.2	3632.3	2855.0	2152.1	1578.2	1164.2	922.6	788.2	733.7
45°	6385.6	5239.6	4184.4	3227.3	2351.9	1636.4	1120.6	840.9	710.1	662.9	644.7
47.5°	6382.0	5048.9	3848.4	2758.7	1796.2	1140.5	793.7	655.6	619.3	604.8	601.1
50°	6343.8	4814.6	3454.3	2250.2	1296.7	795.5	628.4	588.4	579.4	570.3	566.6
52.5°	6291.2	4524.0	3018.4	1754.4	920.8	635.7	570.3	559.4	552.1	543.0	539.4
55°	6193.1	4166.3	2546.2	1320.3	721.0	573.9	550.3	546.7	537.6	524.9	517.6
57.5°	6073.2	3803.0	2094.0	1031.6	637.5	559.4	546.7	541.2	528.5	514.0	499.4
60°	6029.6	3503.4	1739.9	869.9	617.5	564.8	555.7	548.5	530.3	508.5	492.2
62.5°	5757.2	3165.6	1485.6	806.4	628.4	588.4	584.8	573.9	546.7	521.2	495.8
65°	5052.5	2677.0	1258.6	762.8	650.2	628.4	632.0	615.7	588.4	553.9	508.5
67°	4273.4	2183.0	1047.9	721.0	666.5	670.2	682.9	670.2	635.7	586.6	524.9
67.5°	4066.4	2057.7	995.3	708.3	670.2	681.1	695.6	686.5	652.0	595.7	532.1
70°	3022.1	1449.3	742.8	641.1	670.2	713.7	746.4	755.5	717.4	639.3	546.7
72.5°	2128.5	935.3	570.3	555.7	608.4	666.5	728.3	759.2	715.6	630.2	526.7
75°	1278.6	584.8	463.1	472.2	512.2	572.1	621.1	633.8	579.4	524.9	455.9
77.5°	592.1	388.7	363.2	375.9	414.1	441.3	441.3	415.9	374.1	341.4	326.9
80°	348.7	317.8	316.0	339.6	365.0	345.1	314.2	279.7	257.9	247.0	241.5
82.5°	326.9	339.6	361.4	366.9	346.9	297.8	259.7	225.2	214.3	208.9	203.4
85°	385.0	412.3	375.9	346.9	306.9	250.6	203.4	174.4	168.9	163.5	156.2
87.5°	356.0	339.6	296.0	254.3	210.7	152.6	110.8	99.9	107.2	105.3	101.7
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: P158405

CATALOG NUMBER: VTS-F11-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2969.4	2969.4	2969.4	2969.4	2969.4
2.5°	2891.3	2891.3	2884.1	2880.4	2889.5
5°	2840.5	2842.3	2836.8	2835.0	2836.8
7.5°	2829.6	2827.8	2824.1	2820.5	2824.1
10°	2862.3	2860.4	2855.0	2858.6	2853.2
12.5°	2960.3	2971.2	2969.4	2973.0	2980.3
15°	3120.2	3118.3	3112.9	3116.5	3122.0
17.5°	3211.0	3196.4	3183.7	3178.3	3178.3
20°	3189.2	3147.4	3125.6	3112.9	3109.3
22.5°	3060.2	3000.3	2954.9	2944.0	2934.9
25°	2849.5	2775.1	2717.0	2704.3	2680.6
27.5°	2604.4	2504.5	2435.5	2420.9	2408.2
30°	2282.9	2168.5	2088.6	2037.7	2054.1
32.5°	1890.6	1781.6	1689.0	1607.3	1594.6
35°	1460.2	1340.3	1258.6	1222.3	1198.7
37.5°	1089.7	989.8	935.3	900.8	902.6
40°	833.6	780.9	751.9	728.3	730.1
42.5°	695.6	672.0	664.7	653.8	648.4
45°	630.2	622.9	624.8	613.9	610.2
47.5°	593.9	588.4	590.3	583.0	581.2
50°	564.8	561.2	563.0	557.6	555.7
52.5°	535.8	537.6	535.8	532.1	532.1
55°	510.3	508.5	512.2	506.7	506.7
57.5°	490.4	488.5	488.5	486.7	486.7
60°	479.5	472.2	470.4	470.4	472.2
62.5°	474.0	461.3	459.5	459.5	461.3
65°	475.8	455.9	448.6	446.8	445.0
67°	477.6	448.6	434.1	426.8	425.0
67.5°	479.5	445.0	428.6	421.3	417.7
70°	468.6	419.5	395.9	383.2	379.6
72.5°	441.3	388.7	359.6	343.3	339.6
75°	392.3	352.3	326.9	308.7	301.5
77.5°	303.3	285.1	276.1	265.2	261.5
80°	236.1	227.0	223.4	216.1	214.3
82.5°	196.1	187.1	181.6	172.5	167.1
85°	152.6	141.7	138.0	130.8	127.1
87.5°	99.9	94.4	92.6	83.5	79.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)