

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: P157745

Luminaire Tested: **VTS-F11-LED-E1-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157745
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
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-E1-5XQ
Description: VENTUS LED SITE LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (77) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28718.6 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U2 - G5

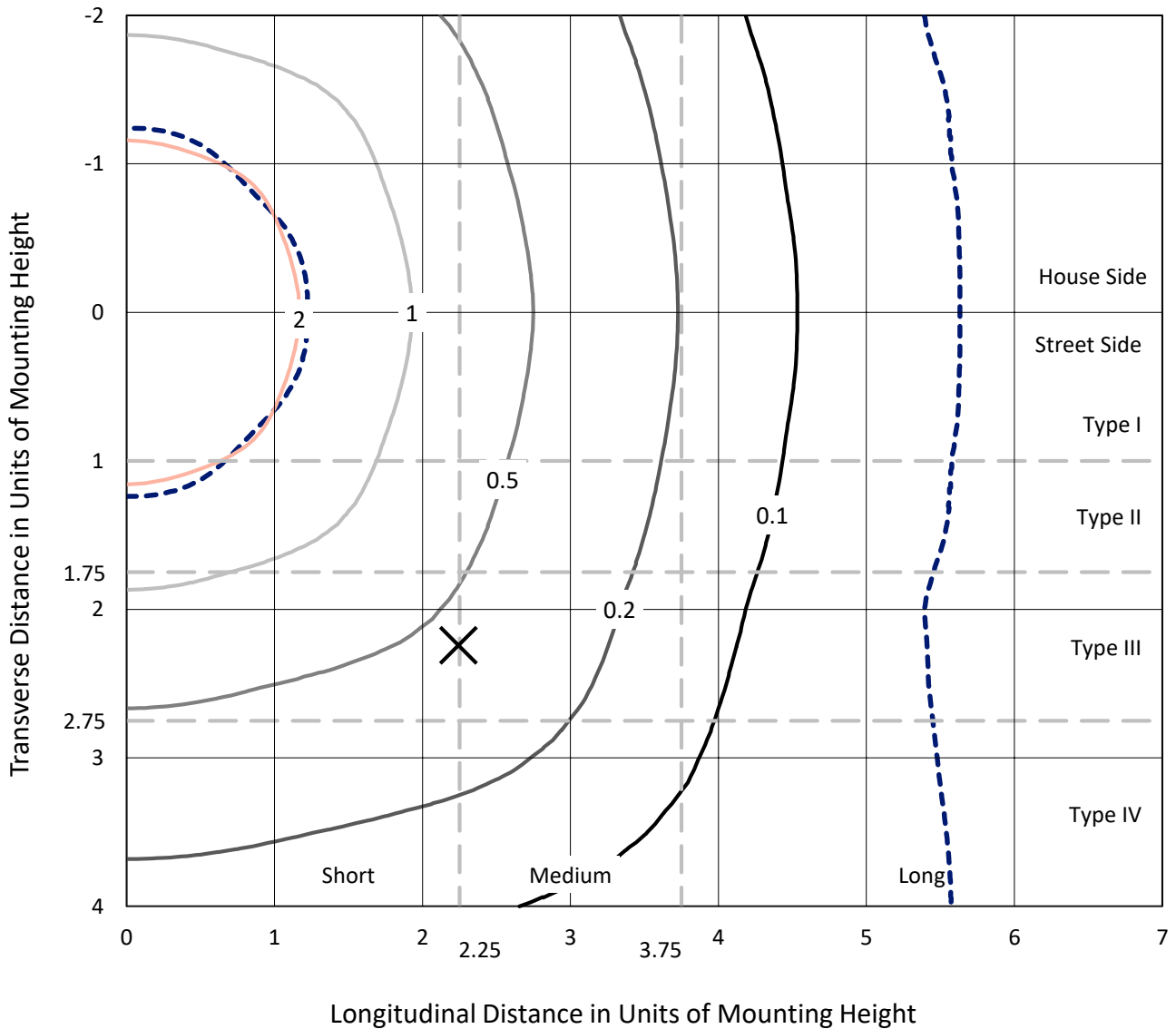
Input Watts (W): 282.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

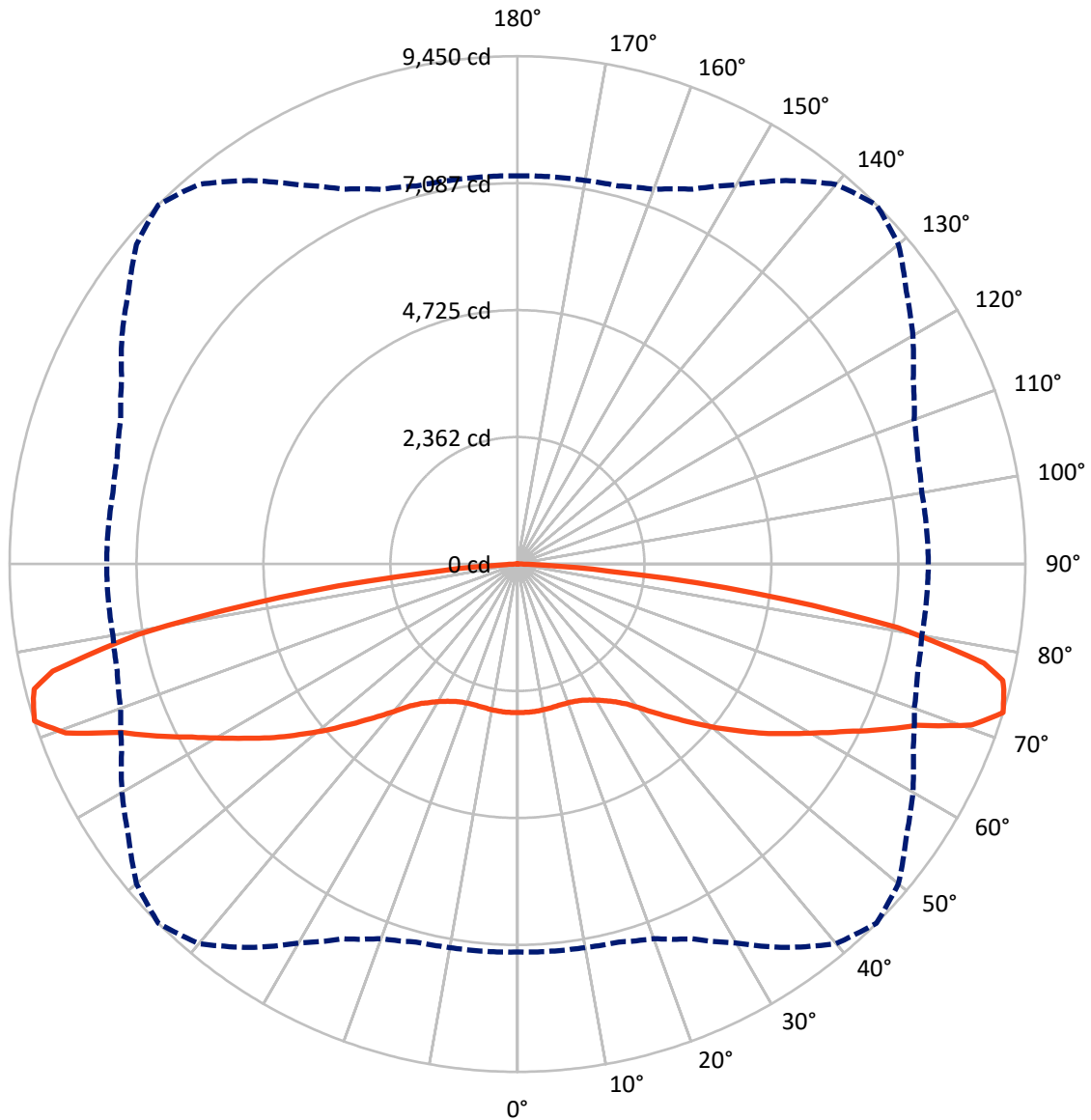


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

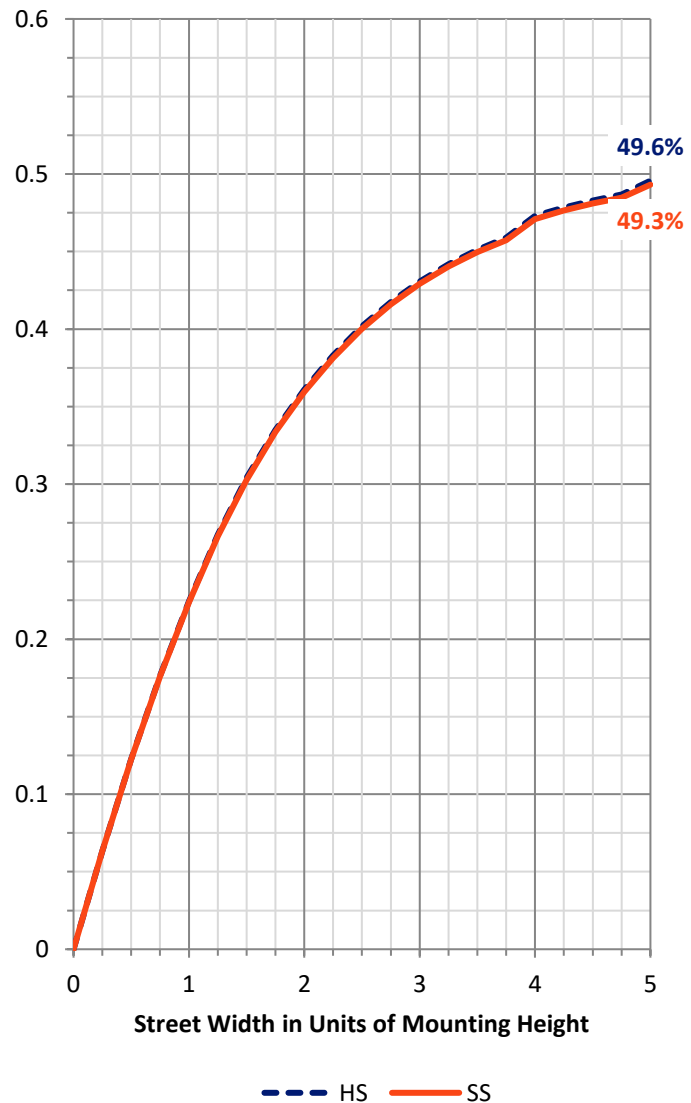
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14352.3	6.9	14359.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14352.3	6.9	14359.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	28704.7	13.9	28718.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	0.9
10°-20°	778.9	2.7
20°-30°	1302.5	4.5
30°-40°	1979.8	6.9
40°-50°	3135.6	10.9
50°-60°	4796.4	16.7
60°-70°	6864.5	23.9
70°-80°	7854.5	27.3
80°-90°	1728.7	6.0
90°-100°	1.4	0.0
100°-110°	2.9	0.0
110°-120°	2.0	0.0
120°-130°	2.2	0.0
130°-140°	2.1	0.0
140°-150°	1.6	0.0
150°-160°	1.1	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-90°	28704.7	100.0
0°-180°	28718.6	100.0

Coefficient of Utilization



REPORT NUMBER: P157745

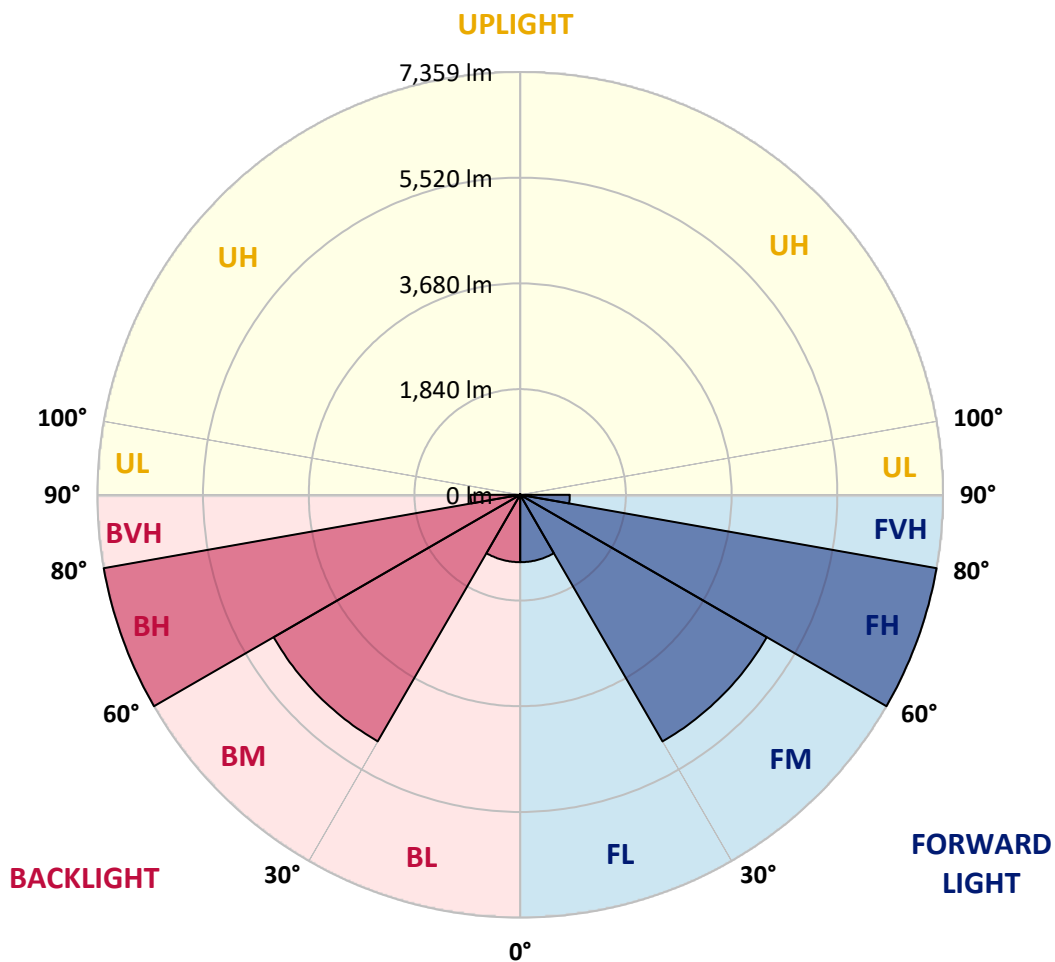
CATALOG NUMBER: VTS-F11-LED-E1-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1172.6	4.1			
FM	(30°-60°)	4955.9	17.3			
FH	(60°-80°)	7359.5	25.6			G3/7500
FVH	(80°-90°)	864.3	3.0			G5
BL	(0°-30°)	1172.6	4.1	B3/2500		
BM	(30°-60°)	4955.9	17.3	B3/5000		
BH	(60°-80°)	7359.5	25.6	B5		G3/7500
BVH	(80°-90°)	864.3	3.0			G5
UL	(90°-100°)	1.4	0.0		U1/10	
UH	(100°-180°)	6.9	0.0		U1/10	

BUG Rating: B5-U2-G5

Type V Short





REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2
2.5°	2766.0	2762.4	2764.2	2767.8	2766.0	2766.0	2764.2	2764.2	2767.8	2764.2	2766.0
5°	2767.8	2764.2	2766.0	2767.8	2766.0	2767.8	2766.0	2766.0	2766.0	2764.2	2767.8
7.5°	2760.6	2760.6	2762.4	2762.4	2760.6	2762.4	2762.4	2762.4	2760.6	2760.6	2764.2
10°	2756.9	2755.1	2755.1	2756.9	2755.1	2755.1	2756.9	2756.9	2753.3	2753.3	2756.9
12.5°	2751.5	2749.7	2749.7	2749.7	2747.8	2747.8	2749.7	2749.7	2747.8	2746.0	2751.5
15°	2747.8	2746.0	2746.0	2746.0	2742.4	2744.2	2744.2	2744.2	2742.4	2740.6	2746.0
17.5°	2746.0	2744.2	2744.2	2744.2	2742.4	2742.4	2742.4	2742.4	2740.6	2740.6	2744.2
20°	2749.7	2749.7	2749.7	2749.7	2747.8	2747.8	2747.8	2749.7	2749.7	2749.7	2753.3
22.5°	2758.7	2758.7	2760.6	2762.4	2762.4	2766.0	2767.8	2769.6	2769.6	2771.5	2775.1
25°	2782.3	2782.3	2784.2	2786.0	2791.4	2795.1	2802.3	2806.0	2807.8	2807.8	2809.6
27.5°	2825.9	2827.8	2831.4	2835.0	2842.3	2847.7	2855.0	2862.3	2864.1	2865.9	2867.7
30°	2880.4	2882.2	2889.5	2893.1	2902.2	2913.1	2922.2	2929.5	2934.9	2938.5	2936.7
32.5°	2958.5	2962.1	2971.2	2976.7	2989.4	3000.3	3013.0	3023.9	3029.3	3034.8	3033.0
35°	3067.5	3076.6	3085.6	3091.1	3103.8	3112.9	3129.2	3140.1	3151.0	3147.4	3149.2
37.5°	3229.1	3236.4	3238.2	3241.8	3254.5	3261.8	3280.0	3294.5	3300.0	3303.6	3305.4
40°	3447.1	3447.1	3456.1	3448.9	3465.2	3467.0	3488.8	3508.8	3514.3	3528.8	3517.9
42.5°	3701.3	3699.5	3705.0	3699.5	3699.5	3717.7	3735.8	3772.2	3775.8	3793.9	3783.1
45°	3977.4	3977.4	3971.9	3973.7	3977.4	3997.4	4019.2	4059.1	4077.3	4088.2	4080.9
47.5°	4277.0	4269.8	4268.0	4266.1	4277.0	4298.8	4331.5	4369.7	4415.1	4418.7	4415.1
50°	4580.3	4578.5	4565.8	4576.7	4584.0	4594.9	4656.6	4707.5	4754.7	4783.8	4774.7
52.5°	4900.0	4883.6	4883.6	4883.6	4901.8	4936.3	4990.8	5059.8	5123.4	5154.2	5148.8
55°	5223.3	5217.8	5201.5	5194.2	5217.8	5266.8	5344.9	5428.5	5512.0	5559.2	5541.1
57.5°	5519.3	5510.2	5512.0	5513.8	5541.1	5606.5	5697.3	5808.1	5898.9	5949.7	5937.0
60°	5751.8	5740.9	5760.8	5766.3	5815.3	5924.3	6069.6	6209.4	6329.3	6380.2	6360.2
62.5°	6015.1	6007.8	6020.6	6018.7	6071.4	6193.1	6387.4	6610.8	6792.4	6857.8	6828.7
65°	6440.1	6418.3	6412.8	6392.9	6427.4	6521.8	6716.1	6975.9	7266.4	7433.5	7393.6
67.5°	6948.6	6943.2	6925.0	6914.1	6926.8	7044.9	7231.9	7482.6	7778.6	8009.2	8060.1
70°	7284.6	7291.9	7310.0	7337.3	7442.6	7671.4	8012.9	8392.5	8799.3	8971.8	8940.9
72.5°	7221.0	7231.9	7246.5	7281.0	7419.0	7693.2	8143.6	8710.3	9220.6	9449.5	9253.3
75°	6910.5	6919.5	6952.2	7004.9	7173.8	7506.2	7991.1	8592.2	9118.9	9347.7	9142.5
76°	6623.5	6652.6	6712.5	6774.3	6977.7	7339.1	7856.7	8497.8	9055.3	9287.8	9089.9
77.5°	5973.3	5998.8	6047.8	6154.9	6385.6	6848.7	7453.5	8083.7	8664.9	8873.7	8706.6
80°	4495.0	4516.8	4562.2	4691.1	4890.9	5177.9	5646.4	6262.1	6899.6	7173.8	7064.8
82.5°	1897.9	1923.3	2103.1	2290.2	2509.9	2820.5	3125.6	3670.4	4139.0	4451.4	4284.3
85°	208.9	257.9	317.8	432.2	530.3	706.5	879.0	1209.6	1529.2	1723.5	1523.8
87.5°	36.3	41.8	59.9	76.3	85.4	98.1	118.1	165.3	225.2	194.3	198.0
90°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	3.6	3.6	3.6	3.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
97.5°	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
100°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
102.5°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
105°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
107.5°	1.8	1.8	1.8	1.8	3.6	3.6	1.8	1.8	1.8	3.6	1.8



REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
112.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
115°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
117.5°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
120°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
122.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
125°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
127.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
130°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
132.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
135°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
137.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
140°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
142.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
145°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	1.8
147.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8
150°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	0.0	0.0	0.0
152.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	0.0
155°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	1.8
157.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	0.0	0.0
160°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	0.0	0.0
162.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	0.0	0.0
165°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2	2764.2
2.5°	2764.2	2764.2	2767.8	2766.0	2766.0	2767.8	2771.5	2769.6
5°	2766.0	2767.8	2764.2	2766.0	2767.8	2767.8	2769.6	2767.8
7.5°	2762.4	2762.4	2762.4	2764.2	2766.0	2764.2	2766.0	2766.0
10°	2755.1	2756.9	2755.1	2758.7	2760.6	2760.6	2762.4	2762.4
12.5°	2749.7	2749.7	2749.7	2753.3	2755.1	2755.1	2756.9	2755.1
15°	2744.2	2744.2	2742.4	2746.0	2749.7	2749.7	2751.5	2751.5
17.5°	2742.4	2742.4	2740.6	2744.2	2747.8	2747.8	2749.7	2749.7
20°	2747.8	2749.7	2746.0	2749.7	2753.3	2755.1	2755.1	2755.1
22.5°	2769.6	2767.8	2762.4	2764.2	2766.0	2766.0	2766.0	2766.0
25°	2802.3	2798.7	2793.2	2791.4	2789.6	2787.8	2787.8	2787.8
27.5°	2858.6	2853.2	2844.1	2842.3	2840.5	2836.8	2836.8	2836.8
30°	2925.8	2918.6	2907.7	2904.0	2898.6	2895.0	2893.1	2891.3
32.5°	3022.1	3007.6	2994.8	2985.8	2980.3	2969.4	2967.6	2964.0
35°	3132.9	3122.0	3103.8	3098.4	3089.3	3083.8	3082.0	3072.9
37.5°	3285.4	3272.7	3256.4	3252.7	3250.9	3245.5	3245.5	3243.7
40°	3497.9	3485.2	3470.7	3456.1	3459.8	3461.6	3461.6	3454.3
42.5°	3757.6	3737.6	3708.6	3717.7	3712.2	3705.0	3719.5	3710.4
45°	4053.7	4026.4	4004.6	3995.5	3995.5	3986.5	4001.0	4001.0
47.5°	4382.4	4338.8	4298.8	4300.7	4286.1	4289.8	4298.8	4311.6
50°	4729.3	4671.2	4633.0	4614.8	4600.3	4605.8	4622.1	4625.7
52.5°	5088.9	5018.0	4967.2	4939.9	4921.8	4929.0	4941.8	4952.7
55°	5463.0	5384.9	5308.6	5279.6	5257.8	5272.3	5274.1	5288.6
57.5°	5853.5	5746.3	5657.3	5613.7	5591.9	5606.5	5617.4	5631.9
60°	6247.6	6124.1	6018.7	5967.9	5937.0	5957.0	5982.4	5989.7
62.5°	6705.2	6534.5	6416.5	6343.8	6329.3	6349.3	6356.5	6378.3
65°	7246.5	7041.2	6877.8	6788.8	6785.2	6796.1	6812.4	6817.8
67.5°	7864.0	7635.1	7415.4	7326.4	7291.9	7324.6	7340.9	7362.7
70°	8735.7	8421.5	8103.7	7905.7	7822.2	7796.8	7804.0	7827.6
72.5°	8833.8	8496.0	8125.5	7856.7	7709.6	7642.4	7640.6	7644.2
75°	8619.5	8080.1	7818.5	7509.8	7300.9	7192.0	7177.4	7175.6
76°	8512.3	7874.8	7497.1	7251.9	7001.3	6890.5	6874.1	6865.1
77.5°	8060.1	7375.4	6806.9	6658.0	6418.3	6278.4	6307.5	6283.9
80°	6461.9	5782.6	5246.9	4827.3	4840.1	4738.3	4696.6	4683.9
82.5°	3808.5	3250.9	2658.9	2312.0	1981.4	1894.2	1630.9	1571.0
85°	1216.8	862.7	523.1	379.6	257.9	216.1	168.9	154.4
87.5°	161.6	127.1	103.5	99.9	90.8	78.1	50.9	36.3
90°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
97.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
100°	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8
102.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8
105°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
107.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6



REPORT NUMBER: P157745

CATALOG NUMBER: VTS-F11-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
112.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
115°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
117.5°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
120°	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
122.5°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
125°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
127.5°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
130°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
132.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
135°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
137.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
140°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
142.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
145°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
147.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
150°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
152.5°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
155°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
157.5°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
160°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
162.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
165°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)