

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: STREETWORKS

Report Number: P157799

Luminaire Tested: **VST-E06-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157799
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: STREETWORKS
Catalog Number: VST-E06-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17331.3 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G4

Input Watts (W): 150.5
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: 28.75 FT

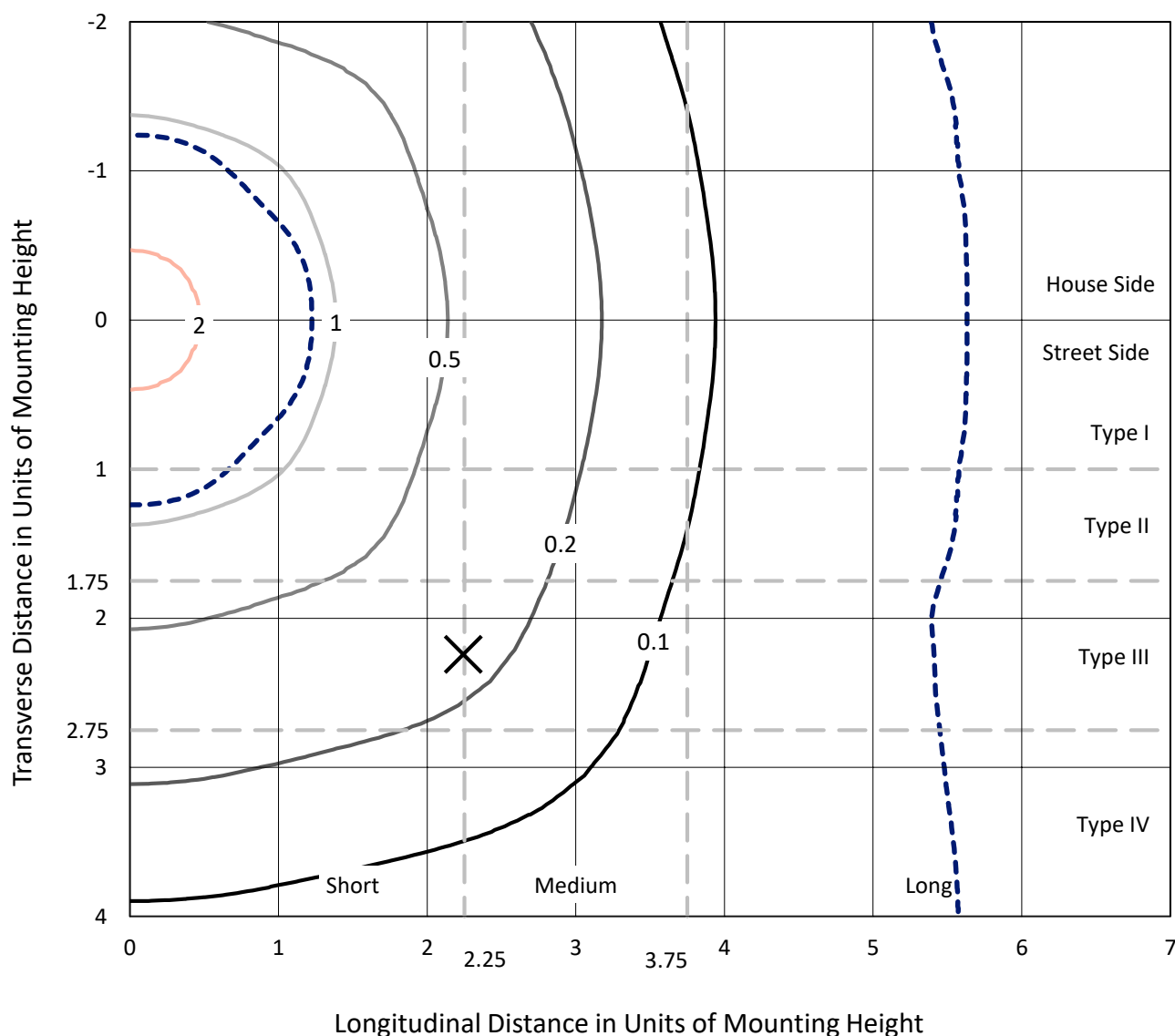


REPORT NUMBER: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

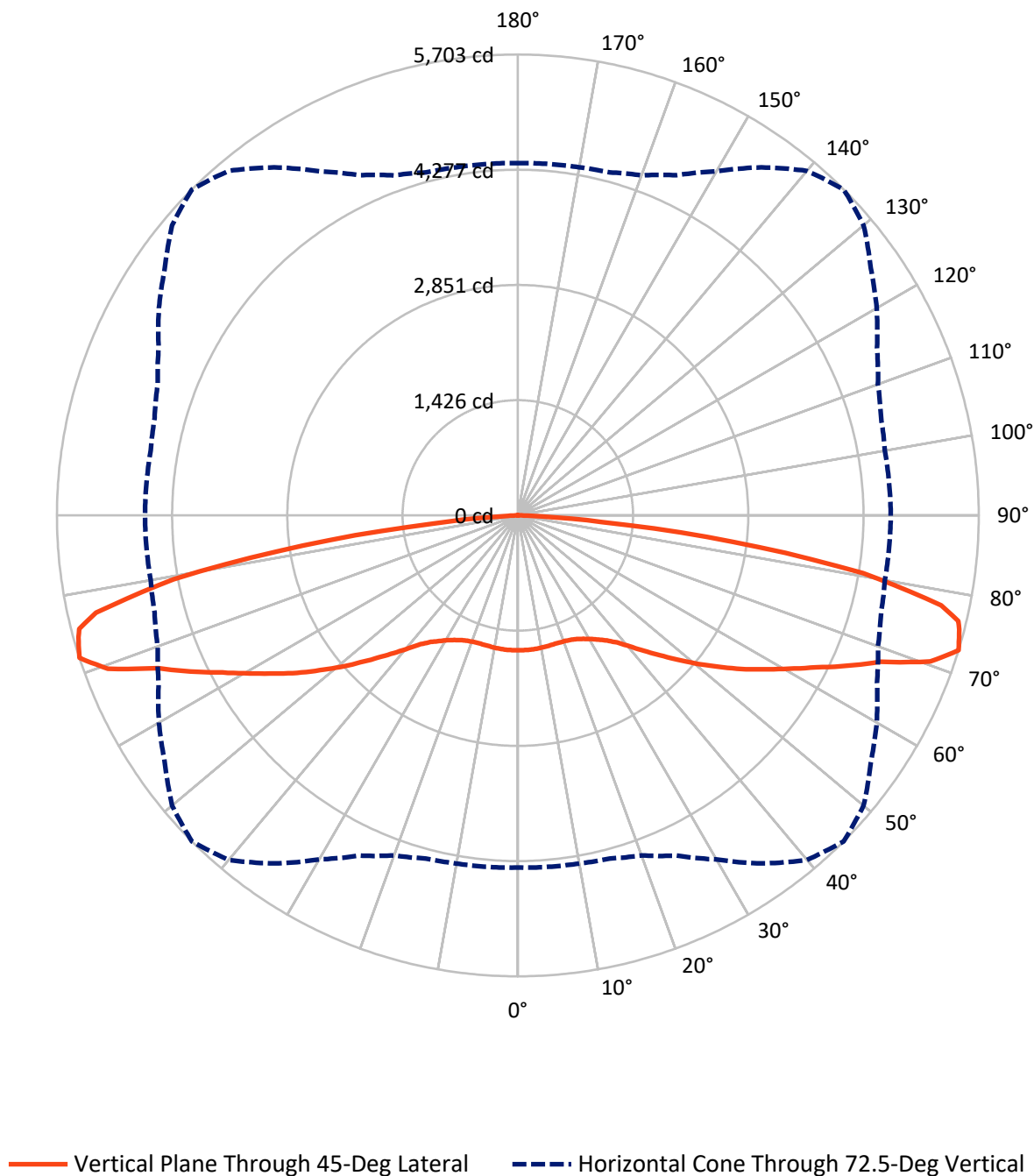


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

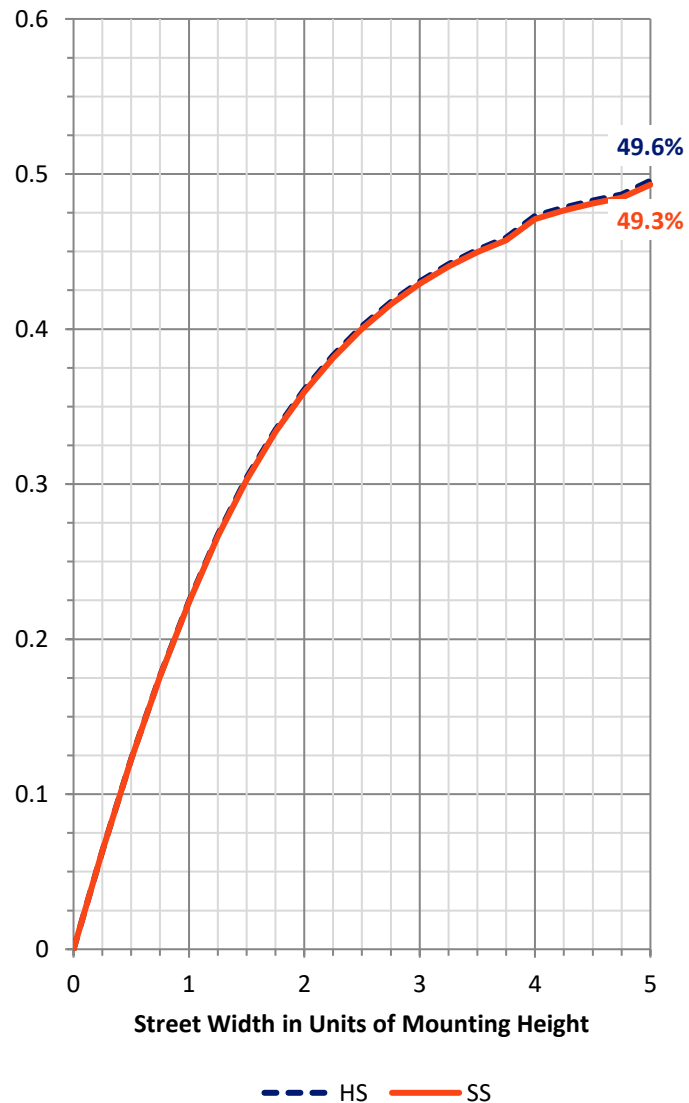
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8661.4	4.2	8665.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8661.4	4.2	8665.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	17322.8	8.5	17331.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	0.9
10°-20°	470.1	2.7
20°-30°	786.1	4.5
30°-40°	1194.8	6.9
40°-50°	1892.3	10.9
50°-60°	2894.6	16.7
60°-70°	4142.6	23.9
70°-80°	4740.1	27.3
80°-90°	1043.2	6.0
90°-100°	0.9	0.0
100°-110°	1.8	0.0
110°-120°	1.2	0.0
120°-130°	1.4	0.0
130°-140°	1.3	0.0
140°-150°	1.0	0.0
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	17322.8	100.0
0°-180°	17331.3	100.0

Coefficient of Utilization



REPORT NUMBER: P157799

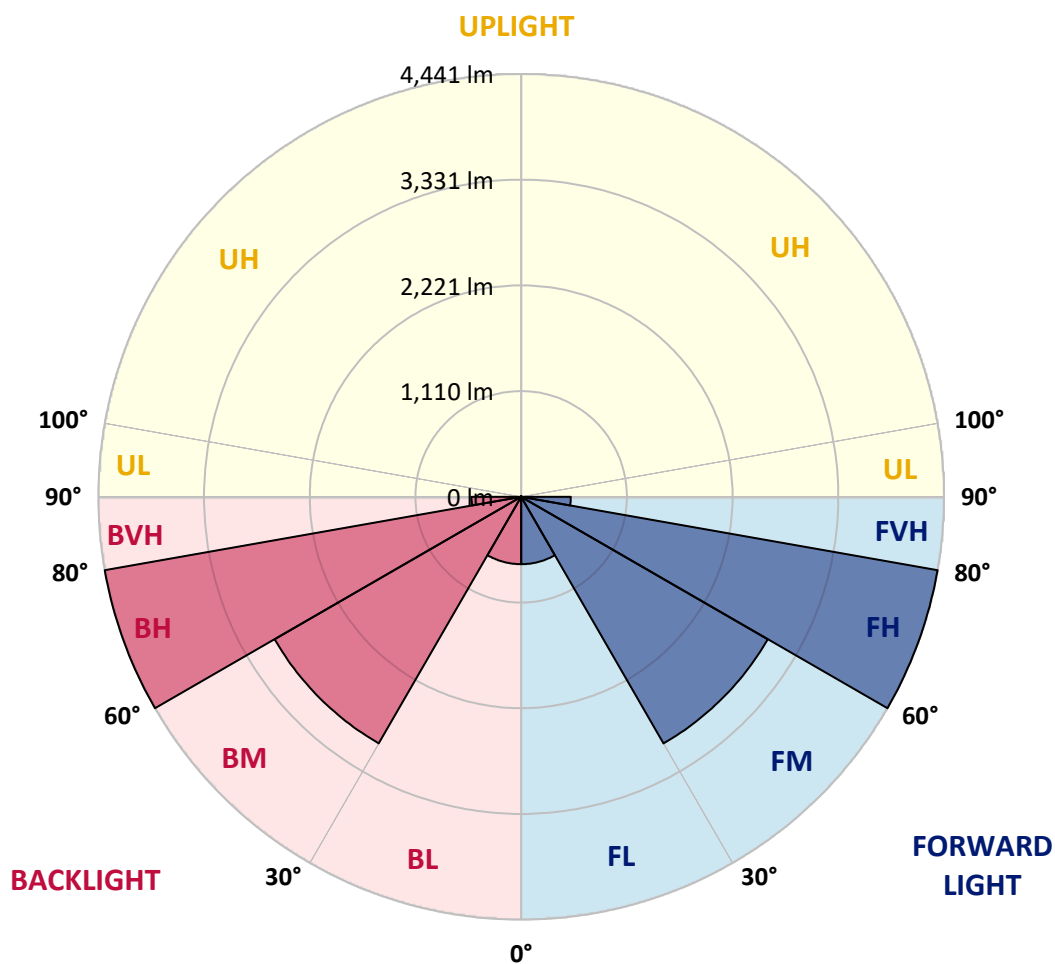
CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	707.7	4.1			
FM	(30°-60°)	2990.8	17.3			
FH	(60°-80°)	4441.3	25.6			G2/5000
FVH	(80°-90°)	521.6	3.0			G4/750
BL	(0°-30°)	707.7	4.1	B2/1000		
BM	(30°-60°)	2990.8	17.3	B3/5000		
BH	(60°-80°)	4441.3	25.6	B4/5000		G2/5000
BVH	(80°-90°)	521.6	3.0			G4/750
UL	(90°-100°)	0.9	0.0		U1/10	
UH	(100°-180°)	4.2	0.0		U1/10	

BUG Rating: B4-U1-G4

Type V Short





REPORT NUMBER: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1
2.5°	1669.2	1667.0	1668.1	1670.3	1669.2	1669.2	1668.1	1668.1	1670.3	1668.1	1669.2
5°	1670.3	1668.1	1669.2	1670.3	1669.2	1670.3	1669.2	1669.2	1669.2	1668.1	1670.3
7.5°	1666.0	1666.0	1667.0	1667.0	1666.0	1667.0	1667.0	1667.0	1666.0	1666.0	1668.1
10°	1663.8	1662.7	1662.7	1663.8	1662.7	1662.7	1663.8	1663.8	1661.6	1661.6	1663.8
12.5°	1660.5	1659.4	1659.4	1659.4	1658.3	1658.3	1659.4	1659.4	1658.3	1657.2	1660.5
15°	1658.3	1657.2	1657.2	1657.2	1655.0	1656.1	1656.1	1656.1	1655.0	1653.9	1657.2
17.5°	1657.2	1656.1	1656.1	1656.1	1655.0	1655.0	1655.0	1655.0	1653.9	1653.9	1656.1
20°	1659.4	1659.4	1659.4	1659.4	1658.3	1658.3	1658.3	1659.4	1659.4	1659.4	1661.6
22.5°	1664.9	1664.9	1666.0	1667.0	1667.0	1669.2	1670.3	1671.4	1671.4	1672.5	1674.7
25°	1679.1	1679.1	1680.2	1681.3	1684.6	1686.8	1691.2	1693.4	1694.4	1694.4	1695.5
27.5°	1705.4	1706.5	1708.7	1710.9	1715.3	1718.6	1722.9	1727.3	1728.4	1729.5	1730.6
30°	1738.3	1739.4	1743.8	1746.0	1751.4	1758.0	1763.5	1767.9	1771.2	1773.4	1772.3
32.5°	1785.4	1787.6	1793.1	1796.4	1804.0	1810.6	1818.3	1824.9	1828.2	1831.5	1830.4
35°	1851.2	1856.7	1862.1	1865.4	1873.1	1878.6	1888.4	1895.0	1901.6	1899.4	1900.5
37.5°	1948.7	1953.1	1954.2	1956.4	1964.1	1968.5	1979.4	1988.2	1991.5	1993.7	1994.8
40°	2080.2	2080.2	2085.7	2081.3	2091.2	2092.3	2105.5	2117.5	2120.8	2129.6	2123.0
42.5°	2233.7	2232.6	2235.9	2232.6	2232.6	2243.6	2254.5	2276.4	2278.6	2289.6	2283.0
45°	2400.3	2400.3	2397.0	2398.1	2400.3	2412.3	2425.5	2449.6	2460.6	2467.1	2462.8
47.5°	2581.1	2576.7	2575.6	2574.6	2581.1	2594.3	2614.0	2637.0	2664.4	2666.6	2664.4
50°	2764.2	2763.1	2755.4	2762.0	2766.4	2772.9	2810.2	2840.9	2869.4	2886.9	2881.4
52.5°	2957.1	2947.2	2947.2	2947.2	2958.2	2979.0	3011.9	3053.5	3091.9	3110.5	3107.2
55°	3152.2	3148.9	3139.0	3134.6	3148.9	3178.5	3225.6	3276.0	3326.4	3354.9	3344.0
57.5°	3330.8	3325.3	3326.4	3327.5	3344.0	3383.4	3438.2	3505.1	3559.9	3590.6	3582.9
60°	3471.1	3464.5	3476.6	3479.9	3509.5	3575.2	3662.9	3747.3	3819.6	3850.3	3838.3
62.5°	3630.0	3625.6	3633.3	3632.2	3664.0	3737.4	3854.7	3989.5	4099.1	4138.6	4121.0
65°	3886.5	3873.3	3870.0	3858.0	3878.8	3935.8	4053.1	4209.8	4385.2	4486.0	4461.9
67.5°	4193.4	4190.1	4179.1	4172.5	4180.2	4251.5	4364.4	4515.6	4694.3	4833.4	4864.1
70°	4396.1	4400.5	4411.5	4427.9	4491.5	4629.6	4835.6	5064.7	5310.2	5414.3	5395.7
72.5°	4357.8	4364.4	4373.1	4393.9	4477.2	4642.7	4914.6	5256.5	5564.5	5702.6	5584.2
75°	4170.4	4175.8	4195.6	4227.4	4329.3	4529.9	4822.5	5185.3	5503.1	5641.2	5517.4
76°	3997.2	4014.7	4050.9	4088.2	4210.9	4429.0	4741.4	5128.3	5464.8	5605.0	5485.6
77.5°	3604.8	3620.2	3649.7	3714.4	3853.6	4133.1	4498.1	4878.4	5229.1	5355.2	5254.3
80°	2712.7	2725.8	2753.2	2831.0	2951.6	3124.8	3407.5	3779.1	4163.8	4329.3	4263.5
82.5°	1145.3	1160.7	1269.2	1382.1	1514.7	1702.1	1886.3	2215.1	2497.8	2686.3	2585.5
85°	126.0	155.6	191.8	260.9	320.0	426.4	530.5	729.9	922.8	1040.1	919.6
87.5°	21.9	25.2	36.2	46.0	51.5	59.2	71.2	99.7	135.9	117.3	119.5
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.2	2.2	2.2	2.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
97.5°	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
102.5°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2
105°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
107.5°	1.1	1.1	1.1	1.1	2.2	2.2	1.1	1.1	1.1	2.2	1.1



REPORT NUMBER: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
115°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
117.5°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
120°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
122.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
125°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
127.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
130°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
132.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
135°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
137.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
140°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
142.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	1.1
147.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1
150°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	0.0	0.0	0.0
152.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0
155°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	1.1
157.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0
160°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0
162.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0
165°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	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: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1	1668.1
2.5°	1668.1	1668.1	1670.3	1669.2	1669.2	1670.3	1672.5	1671.4
5°	1669.2	1670.3	1668.1	1669.2	1670.3	1670.3	1671.4	1670.3
7.5°	1667.0	1667.0	1667.0	1668.1	1669.2	1668.1	1669.2	1669.2
10°	1662.7	1663.8	1662.7	1664.9	1666.0	1666.0	1667.0	1667.0
12.5°	1659.4	1659.4	1659.4	1661.6	1662.7	1662.7	1663.8	1662.7
15°	1656.1	1656.1	1655.0	1657.2	1659.4	1659.4	1660.5	1660.5
17.5°	1655.0	1655.0	1653.9	1656.1	1658.3	1658.3	1659.4	1659.4
20°	1658.3	1659.4	1657.2	1659.4	1661.6	1662.7	1662.7	1662.7
22.5°	1671.4	1670.3	1667.0	1668.1	1669.2	1669.2	1669.2	1669.2
25°	1691.2	1689.0	1685.7	1684.6	1683.5	1682.4	1682.4	1682.4
27.5°	1725.1	1721.8	1716.4	1715.3	1714.2	1712.0	1712.0	1712.0
30°	1765.7	1761.3	1754.7	1752.5	1749.2	1747.1	1746.0	1744.9
32.5°	1823.8	1815.0	1807.3	1801.9	1798.6	1792.0	1790.9	1788.7
35°	1890.6	1884.1	1873.1	1869.8	1864.3	1861.0	1859.9	1854.5
37.5°	1982.7	1975.0	1965.2	1963.0	1961.9	1958.6	1958.6	1957.5
40°	2110.9	2103.3	2094.5	2085.7	2087.9	2089.0	2089.0	2084.6
42.5°	2267.7	2255.6	2238.1	2243.6	2240.3	2235.9	2244.6	2239.2
45°	2446.3	2429.9	2416.7	2411.2	2411.2	2405.8	2414.5	2414.5
47.5°	2644.7	2618.4	2594.3	2595.4	2586.6	2588.8	2594.3	2602.0
50°	2854.0	2819.0	2795.9	2785.0	2776.2	2779.5	2789.4	2791.6
52.5°	3071.0	3028.3	2997.6	2981.2	2970.2	2974.6	2982.3	2988.8
55°	3296.8	3249.7	3203.7	3186.1	3173.0	3181.7	3182.8	3191.6
57.5°	3532.5	3467.8	3414.1	3387.8	3374.6	3383.4	3390.0	3398.8
60°	3770.3	3695.8	3632.2	3601.5	3582.9	3594.9	3610.3	3614.7
62.5°	4046.5	3943.5	3872.2	3828.4	3819.6	3831.7	3836.1	3849.2
65°	4373.1	4249.3	4150.6	4096.9	4094.7	4101.3	4111.2	4114.5
67.5°	4745.8	4607.7	4475.1	4421.3	4400.5	4420.3	4430.1	4443.3
70°	5271.9	5082.2	4890.4	4771.0	4720.6	4705.2	4709.6	4723.8
72.5°	5331.0	5127.2	4903.6	4741.4	4652.6	4612.1	4611.0	4613.1
75°	5201.7	4876.2	4718.4	4532.0	4406.0	4340.2	4331.5	4330.4
76°	5137.0	4752.3	4524.4	4376.4	4225.2	4158.3	4148.4	4143.0
77.5°	4864.1	4450.9	4107.9	4018.0	3873.3	3788.9	3806.5	3792.2
80°	3899.6	3489.7	3166.4	2913.2	2920.9	2859.5	2834.3	2826.6
82.5°	2298.4	1961.9	1604.6	1395.2	1195.8	1143.1	984.2	948.1
85°	734.3	520.6	315.7	229.1	155.6	130.4	101.9	93.2
87.5°	97.5	76.7	62.5	60.3	54.8	47.1	30.7	21.9
90°	1.1	1.1	1.1	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°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
100°	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1
102.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1
105°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
107.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



REPORT NUMBER: P157799

CATALOG NUMBER: VST-E06-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
112.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
115°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
117.5°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
120°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
122.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
125°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
127.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
130°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
132.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
135°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
137.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
140°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
142.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
145°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
147.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
150°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
152.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
155°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
157.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
160°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
162.5°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
165°	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2
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)