

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: P157808

Luminaire Tested: **VST-E07-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157808
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-E07-LED-E-U-5XQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18684.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G4

Input Watts (W): 172.5
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

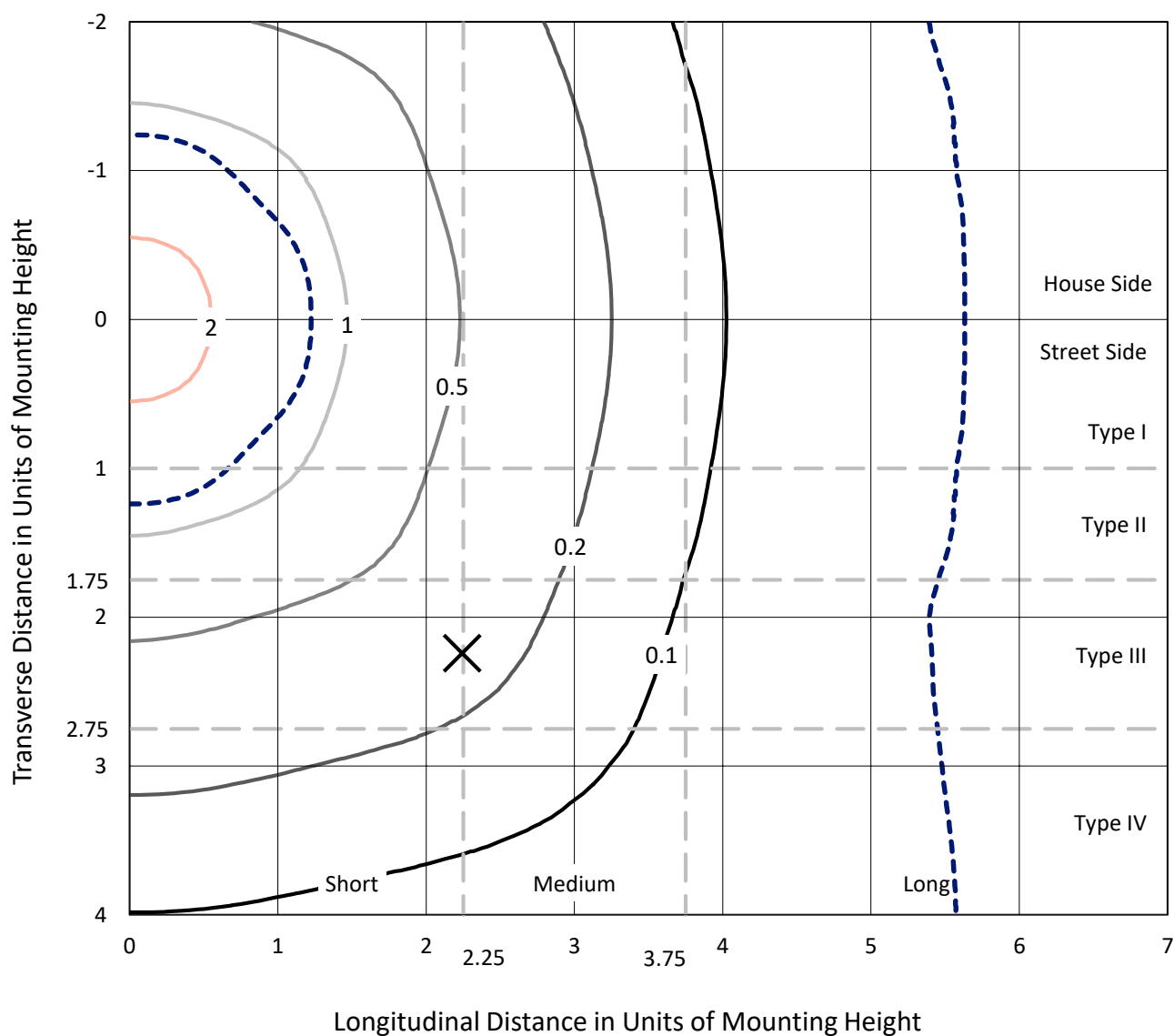


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

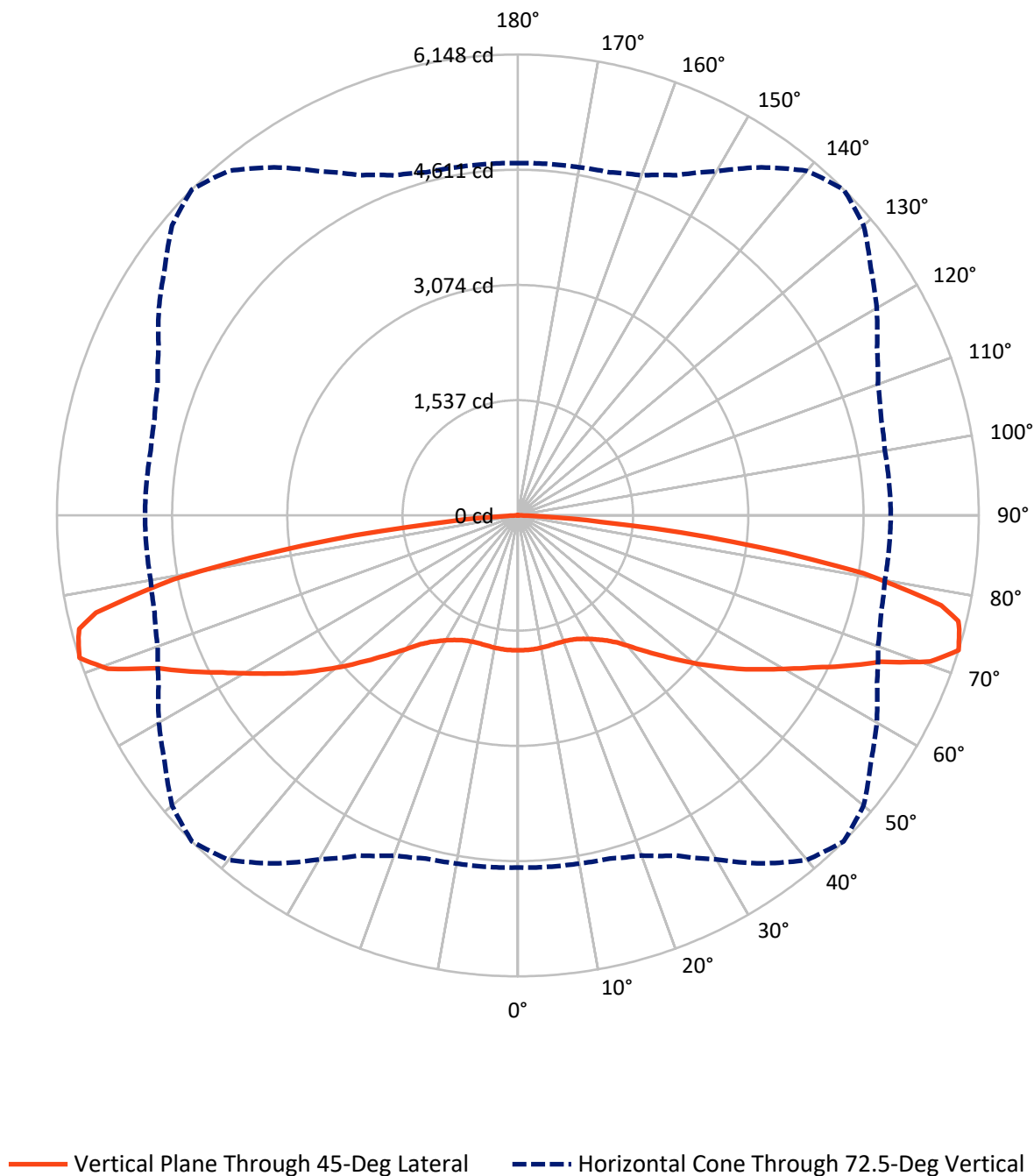


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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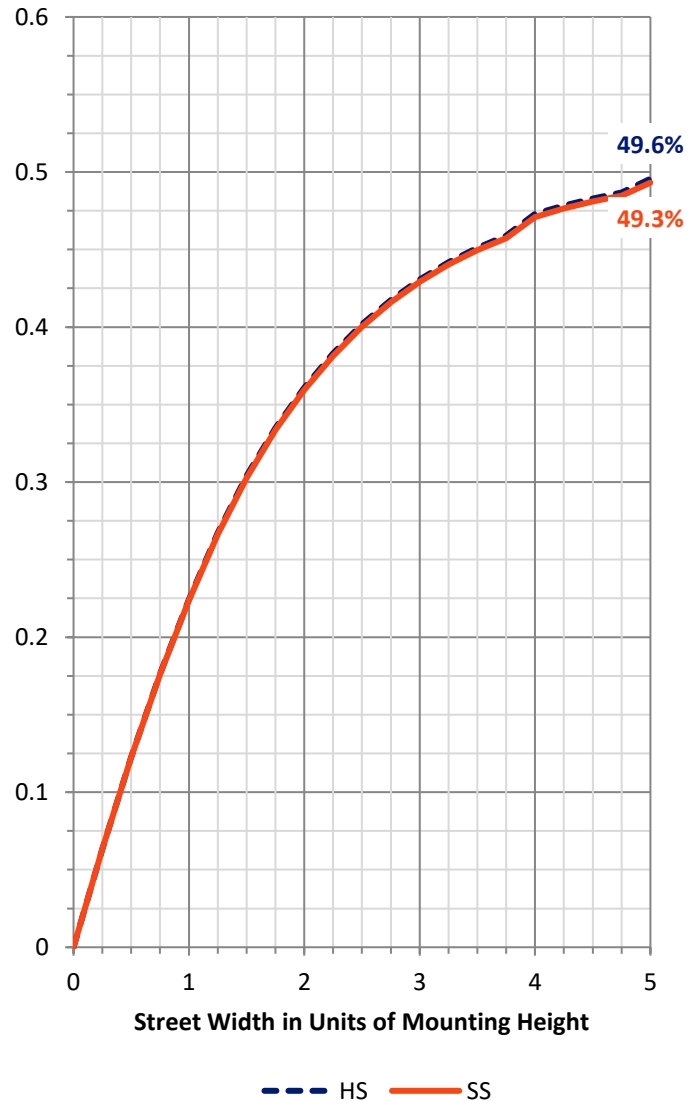
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9337.6	4.6	9342.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9337.6	4.6	9342.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18675.2	9.3	18684.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	0.9
10°-20°	506.8	2.7
20°-30°	847.4	4.5
30°-40°	1288.0	6.9
40°-50°	2040.0	10.9
50°-60°	3120.5	16.7
60°-70°	4466.0	23.9
70°-80°	5110.1	27.3
80°-90°	1124.7	6.0
90°-100°	1.0	0.0
100°-110°	2.0	0.0
110°-120°	1.4	0.0
120°-130°	1.5	0.0
130°-140°	1.4	0.0
140°-150°	1.1	0.0
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	18675.2	100.0
0°-180°	18684.5	100.0

Coefficient of Utilization



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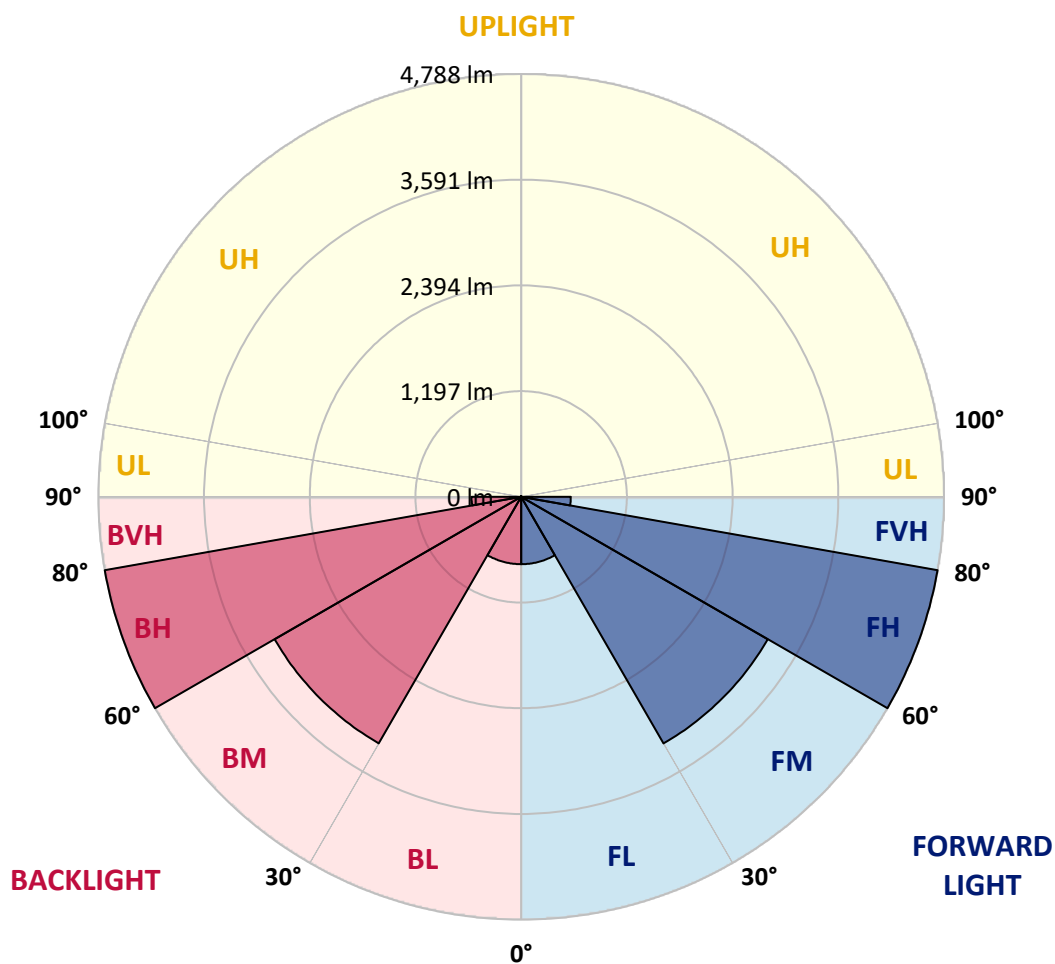
CATALOG NUMBER: VST-E07-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	762.9	4.1			
FM	(30°-60°)	3224.3	17.3			
FH	(60°-80°)	4788.1	25.6			G2/5000
FVH	(80°-90°)	562.3	3.0			G4/750
BL	(0°-30°)	762.9	4.1	B2/1000		
BM	(30°-60°)	3224.3	17.3	B3/5000		
BH	(60°-80°)	4788.1	25.6	B4/5000		G2/5000
BVH	(80°-90°)	562.3	3.0			G4/750
UL	(90°-100°)	1.0	0.0		U1/10	
UH	(100°-180°)	4.6	0.0		U1/10	

BUG Rating: B4-U1-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4
2.5°	1799.6	1797.2	1798.4	1800.7	1799.6	1799.6	1798.4	1798.4	1800.7	1798.4	1799.6
5°	1800.7	1798.4	1799.6	1800.7	1799.6	1800.7	1799.6	1799.6	1799.6	1798.4	1800.7
7.5°	1796.0	1796.0	1797.2	1797.2	1796.0	1797.2	1797.2	1797.2	1796.0	1796.0	1798.4
10°	1793.6	1792.5	1792.5	1793.6	1792.5	1792.5	1793.6	1793.6	1791.3	1791.3	1793.6
12.5°	1790.1	1788.9	1788.9	1788.9	1787.7	1787.7	1788.9	1788.9	1787.7	1786.6	1790.1
15°	1787.7	1786.6	1786.6	1786.6	1784.2	1785.4	1785.4	1785.4	1784.2	1783.0	1786.6
17.5°	1786.6	1785.4	1785.4	1785.4	1784.2	1784.2	1784.2	1784.2	1783.0	1783.0	1785.4
20°	1788.9	1788.9	1788.9	1788.9	1787.7	1787.7	1787.7	1788.9	1788.9	1788.9	1791.3
22.5°	1794.8	1794.8	1796.0	1797.2	1797.2	1799.6	1800.7	1801.9	1801.9	1803.1	1805.5
25°	1810.2	1810.2	1811.4	1812.6	1816.1	1818.5	1823.2	1825.6	1826.7	1826.7	1827.9
27.5°	1838.5	1839.7	1842.1	1844.5	1849.2	1852.7	1857.5	1862.2	1863.4	1864.5	1865.7
30°	1874.0	1875.2	1879.9	1882.3	1888.2	1895.3	1901.2	1905.9	1909.4	1911.8	1910.6
32.5°	1924.8	1927.2	1933.1	1936.6	1944.9	1952.0	1960.3	1967.3	1970.9	1974.4	1973.3
35°	1995.7	2001.6	2007.5	2011.1	2019.3	2025.2	2035.9	2043.0	2050.1	2047.7	2048.9
37.5°	2100.9	2105.6	2106.8	2109.1	2117.4	2122.1	2133.9	2143.4	2146.9	2149.3	2150.5
40°	2242.7	2242.7	2248.6	2243.8	2254.5	2255.7	2269.8	2282.8	2286.4	2295.8	2288.7
42.5°	2408.1	2406.9	2410.4	2406.9	2406.9	2418.7	2430.5	2454.2	2456.5	2468.3	2461.2
45°	2587.7	2587.7	2584.1	2585.3	2587.7	2600.7	2614.9	2640.8	2652.7	2659.8	2655.0
47.5°	2782.6	2777.9	2776.7	2775.5	2782.6	2796.8	2818.1	2842.9	2872.4	2874.8	2872.4
50°	2980.0	2978.8	2970.5	2977.6	2982.3	2989.4	3029.6	3062.7	3093.4	3112.3	3106.4
52.5°	3187.9	3177.3	3177.3	3177.3	3189.1	3211.6	3247.0	3291.9	3333.3	3353.3	3349.8
55°	3398.2	3394.7	3384.1	3379.3	3394.7	3426.6	3477.4	3531.8	3586.1	3616.8	3605.0
57.5°	3590.8	3584.9	3586.1	3587.3	3605.0	3647.6	3706.6	3778.7	3837.8	3870.9	3862.6
60°	3742.1	3735.0	3748.0	3751.5	3783.4	3854.3	3948.9	4039.8	4117.8	4150.9	4137.9
62.5°	3913.4	3908.7	3917.0	3915.8	3950.0	4029.2	4155.6	4301.0	4419.1	4461.7	4442.8
65°	4189.9	4175.7	4172.2	4159.2	4181.6	4243.1	4369.5	4538.5	4727.5	4836.2	4810.2
67.5°	4520.8	4517.2	4505.4	4498.3	4506.6	4583.4	4705.1	4868.1	5060.7	5210.8	5243.9
70°	4739.3	4744.1	4755.9	4773.6	4842.1	4991.0	5213.2	5460.1	5724.8	5837.0	5817.0
72.5°	4698.0	4705.1	4714.5	4737.0	4826.8	5005.2	5298.2	5666.9	5998.9	6147.8	6020.2
75°	4495.9	4501.8	4523.1	4557.4	4667.3	4883.5	5199.0	5590.1	5932.7	6081.6	5948.1
76°	4309.2	4328.2	4367.1	4407.3	4539.7	4774.8	5111.5	5528.6	5891.4	6042.6	5913.8
77.5°	3886.2	3902.8	3934.7	4004.4	4154.5	4455.8	4849.2	5259.2	5637.4	5773.2	5664.5
80°	2924.4	2938.6	2968.1	3052.0	3182.0	3368.7	3673.6	4074.1	4488.9	4667.3	4596.4
82.5°	1234.8	1251.3	1368.3	1490.0	1633.0	1835.0	2033.5	2388.0	2692.8	2896.1	2787.4
85°	135.9	167.8	206.8	281.2	345.0	459.6	571.9	786.9	994.9	1121.3	991.4
87.5°	23.6	27.2	39.0	49.6	55.5	63.8	76.8	107.5	146.5	126.4	128.8
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.4	2.4	2.4	2.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
97.5°	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
100°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
102.5°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
105°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
107.5°	1.2	1.2	1.2	1.2	2.4	2.4	1.2	1.2	1.2	2.4	1.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
117.5°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
120°	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
122.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
125°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
127.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
130°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
132.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
135°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
137.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
140°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
142.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
145°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	1.2
147.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2
150°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	0.0	0.0	0.0
152.5°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0
155°	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	1.2
157.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0
160°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0
162.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0
165°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4	1798.4
2.5°	1798.4	1798.4	1800.7	1799.6	1799.6	1800.7	1803.1	1801.9
5°	1799.6	1800.7	1798.4	1799.6	1800.7	1800.7	1801.9	1800.7
7.5°	1797.2	1797.2	1797.2	1798.4	1799.6	1798.4	1799.6	1799.6
10°	1792.5	1793.6	1792.5	1794.8	1796.0	1796.0	1797.2	1797.2
12.5°	1788.9	1788.9	1788.9	1791.3	1792.5	1792.5	1793.6	1792.5
15°	1785.4	1785.4	1784.2	1786.6	1788.9	1788.9	1790.1	1790.1
17.5°	1784.2	1784.2	1783.0	1785.4	1787.7	1787.7	1788.9	1788.9
20°	1787.7	1788.9	1786.6	1788.9	1791.3	1792.5	1792.5	1792.5
22.5°	1801.9	1800.7	1797.2	1798.4	1799.6	1799.6	1799.6	1799.6
25°	1823.2	1820.8	1817.3	1816.1	1814.9	1813.7	1813.7	1813.7
27.5°	1859.8	1856.3	1850.4	1849.2	1848.0	1845.6	1845.6	1845.6
30°	1903.5	1898.8	1891.7	1889.4	1885.8	1883.5	1882.3	1881.1
32.5°	1966.2	1956.7	1948.4	1942.5	1939.0	1931.9	1930.7	1928.4
35°	2038.2	2031.1	2019.3	2015.8	2009.9	2006.3	2005.2	1999.2
37.5°	2137.5	2129.2	2118.6	2116.2	2115.0	2111.5	2111.5	2110.3
40°	2275.7	2267.5	2258.0	2248.6	2250.9	2252.1	2252.1	2247.4
42.5°	2444.7	2431.7	2412.8	2418.7	2415.2	2410.4	2419.9	2414.0
45°	2637.3	2619.6	2605.4	2599.5	2599.5	2593.6	2603.0	2603.0
47.5°	2851.2	2822.8	2796.8	2798.0	2788.5	2790.9	2796.8	2805.1
50°	3076.9	3039.0	3014.2	3002.4	2993.0	2996.5	3007.1	3009.5
52.5°	3310.8	3264.7	3231.6	3213.9	3202.1	3206.8	3215.1	3222.2
55°	3554.2	3503.4	3453.8	3434.9	3420.7	3430.1	3431.3	3440.8
57.5°	3808.3	3738.5	3680.6	3652.3	3638.1	3647.6	3654.6	3664.1
60°	4064.7	3984.3	3915.8	3882.7	3862.6	3875.6	3892.1	3896.9
62.5°	4362.4	4251.4	4174.5	4127.3	4117.8	4130.8	4135.6	4149.7
65°	4714.5	4581.0	4474.7	4416.8	4414.4	4421.5	4432.1	4435.7
67.5°	5116.3	4967.4	4824.4	4766.5	4744.1	4765.3	4776.0	4790.2
70°	5683.4	5479.0	5272.2	5143.4	5089.1	5072.6	5077.3	5092.6
72.5°	5747.2	5527.5	5286.4	5111.5	5015.8	4972.1	4970.9	4973.3
75°	5607.8	5256.9	5086.7	4885.9	4750.0	4679.1	4669.6	4668.5
76°	5538.1	5123.4	4877.6	4718.1	4555.0	4482.9	4472.3	4466.4
77.5°	5243.9	4798.4	4428.6	4331.7	4175.7	4084.7	4103.7	4088.3
80°	4204.1	3762.2	3413.6	3140.7	3148.9	3082.8	3055.6	3047.3
82.5°	2477.8	2115.0	1729.8	1504.2	1289.1	1232.4	1061.1	1022.1
85°	791.7	561.3	340.3	247.0	167.8	140.6	109.9	100.4
87.5°	105.2	82.7	67.4	65.0	59.1	50.8	33.1	23.6
90°	1.2	1.2	1.2	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°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
97.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
100°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2
102.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2
105°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
107.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4



REPORT NUMBER: P157808

CATALOG NUMBER: VST-E07-LED-E-U-5XQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
112.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
115°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
117.5°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
120°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
122.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
125°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
127.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
130°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
132.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
135°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
137.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
140°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
142.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
145°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
147.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
150°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
152.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
155°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
157.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
160°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
162.5°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
165°	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
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)