

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: P157769

Luminaire Tested: **VST-E03-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157769
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-E03-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8665.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G3

Input Watts (W): 75.2
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

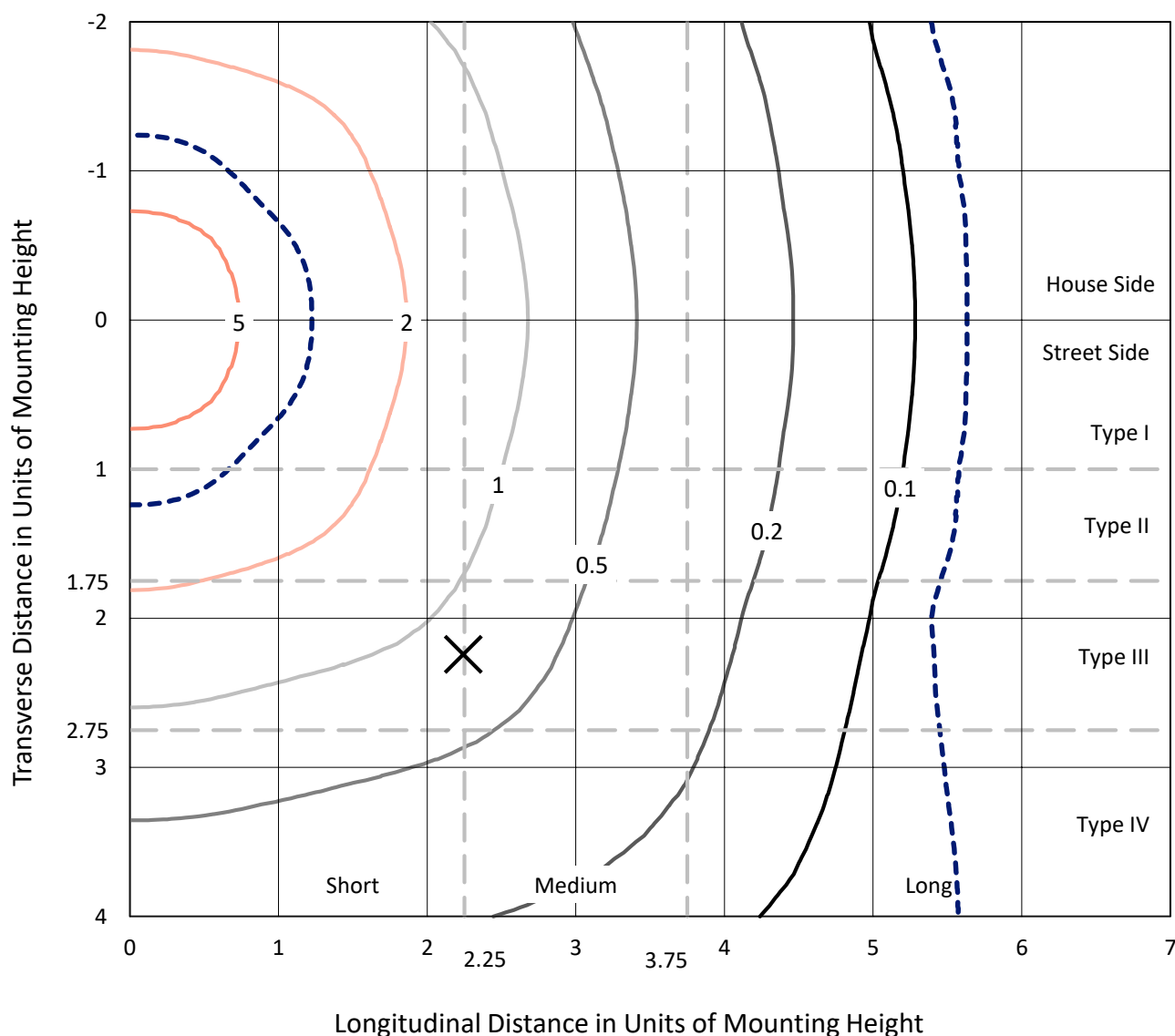


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

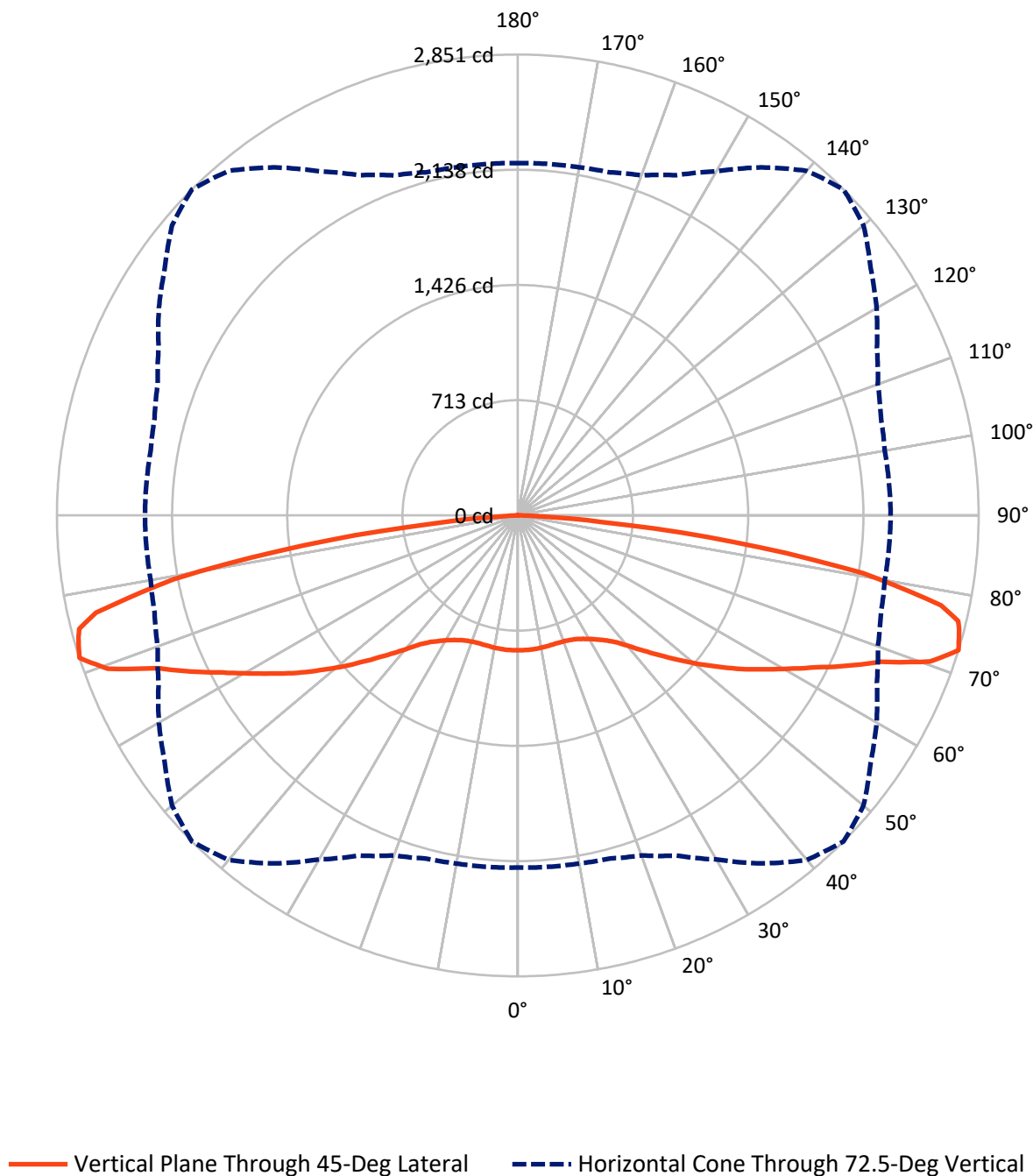


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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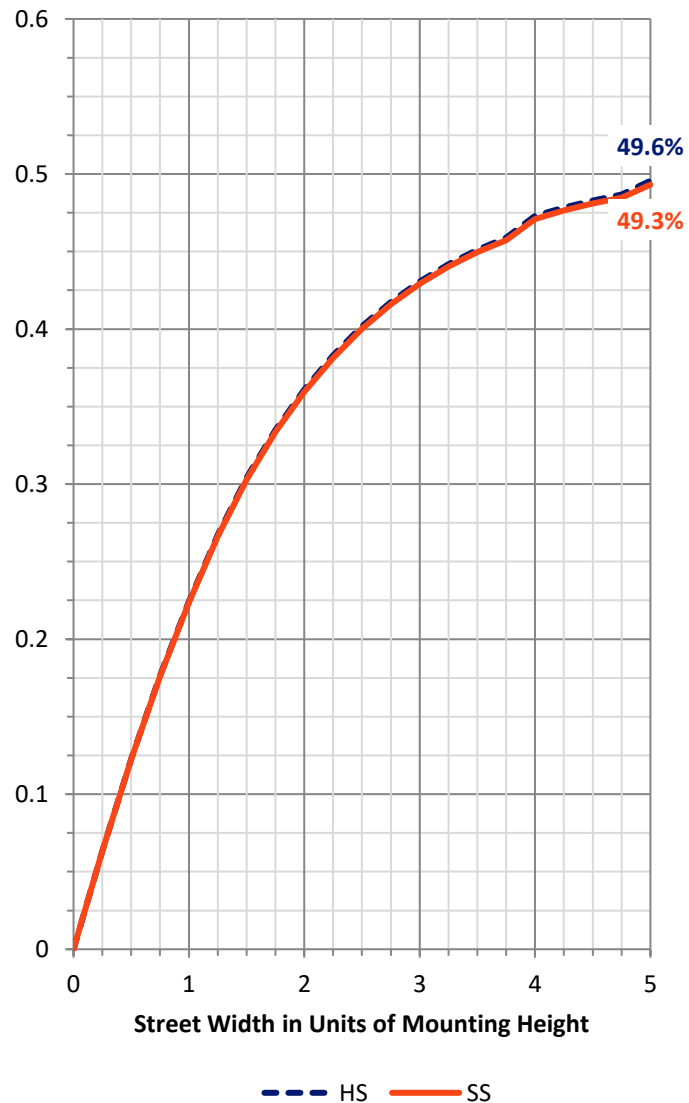
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4330.7	2.0	4332.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4330.7	2.0	4332.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	8661.4	4.1	8665.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	0.9
10°-20°	235.0	2.7
20°-30°	393.0	4.5
30°-40°	597.4	6.9
40°-50°	946.1	10.9
50°-60°	1447.3	16.7
60°-70°	2071.3	23.9
70°-80°	2370.0	27.4
80°-90°	521.6	6.0
90°-100°	0.4	0.0
100°-110°	0.9	0.0
110°-120°	0.6	0.0
120°-130°	0.7	0.0
130°-140°	0.6	0.0
140°-150°	0.5	0.0
150°-160°	0.3	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	8661.4	100.0
0°-180°	8665.5	100.0

Coefficient of Utilization



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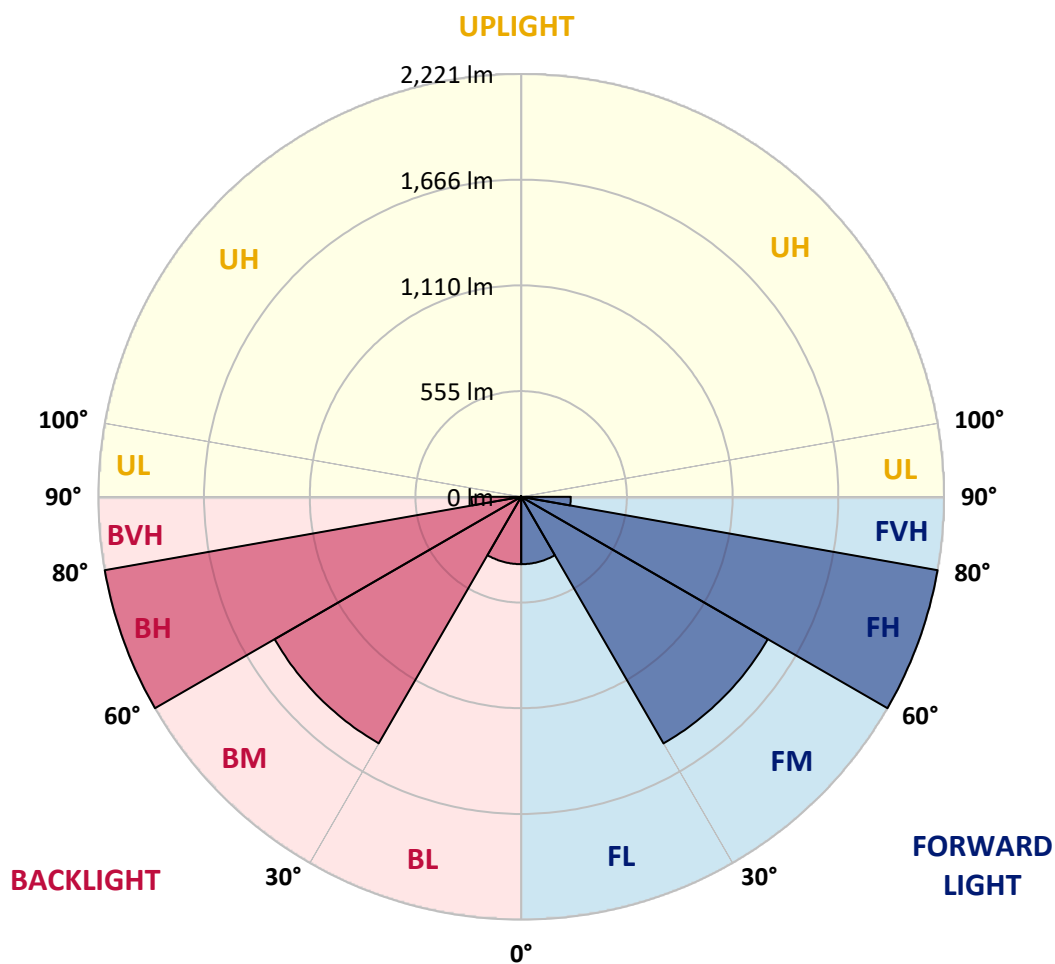
CATALOG NUMBER: VST-E03-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.8	4.1			
FM	(30°-60°)	1495.4	17.3			
FH	(60°-80°)	2220.7	25.6			G2/5000
FVH	(80°-90°)	260.8	3.0			G3/500
BL	(0°-30°)	353.8	4.1	B1/500		
BM	(30°-60°)	1495.4	17.3	B2/2500		
BH	(60°-80°)	2220.7	25.6	B3/2500		G2/5000
BVH	(80°-90°)	260.8	3.0			G3/500
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	2.0	0.0		U1/10	

BUG Rating: B3-U1-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	834.6	833.5	834.1	835.1	834.6	834.6	834.1	834.1	835.1	834.1	834.6
5°	835.1	834.1	834.6	835.1	834.6	835.1	834.6	834.6	834.6	834.1	835.1
7.5°	833.0	833.0	833.5	833.5	833.0	833.5	833.5	833.5	833.0	833.0	834.1
10°	831.9	831.4	831.4	831.9	831.4	831.4	831.9	831.9	830.8	830.8	831.9
12.5°	830.2	829.7	829.7	829.7	829.1	829.1	829.7	829.7	829.1	828.6	830.2
15°	829.1	828.6	828.6	828.6	827.5	828.1	828.1	828.1	827.5	826.9	828.6
17.5°	828.6	828.1	828.1	828.1	827.5	827.5	827.5	827.5	826.9	826.9	828.1
20°	829.7	829.7	829.7	829.7	829.1	829.1	829.1	829.7	829.7	829.7	830.8
22.5°	832.4	832.4	833.0	833.5	833.5	834.6	835.1	835.7	835.7	836.3	837.4
25°	839.6	839.6	840.1	840.7	842.3	843.4	845.6	846.7	847.2	847.2	847.8
27.5°	852.7	853.3	854.3	855.4	857.6	859.3	861.5	863.6	864.2	864.8	865.3
30°	869.2	869.7	871.9	873.0	875.7	879.0	881.8	883.9	885.6	886.7	886.1
32.5°	892.7	893.8	896.5	898.2	902.0	905.3	909.1	912.4	914.1	915.7	915.2
35°	925.6	928.3	931.1	932.7	936.5	939.3	944.2	947.5	950.8	949.7	950.2
37.5°	974.3	976.6	977.1	978.2	982.0	984.2	989.7	994.1	995.8	996.8	997.4
40°	1040.1	1040.1	1042.9	1040.7	1045.6	1046.2	1052.7	1058.8	1060.4	1064.8	1061.5
42.5°	1116.8	1116.3	1117.9	1116.3	1116.3	1121.8	1127.3	1138.2	1139.3	1144.8	1141.5
45°	1200.1	1200.1	1198.5	1199.0	1200.1	1206.2	1212.7	1224.8	1230.3	1233.6	1231.4
47.5°	1290.5	1288.4	1287.8	1287.3	1290.5	1297.1	1307.0	1318.5	1332.2	1333.3	1332.2
50°	1382.1	1381.6	1377.7	1381.0	1383.2	1386.5	1405.1	1420.4	1434.7	1443.5	1440.7
52.5°	1478.5	1473.6	1473.6	1473.6	1479.1	1489.5	1505.9	1526.8	1546.0	1555.3	1553.6
55°	1576.1	1574.5	1569.5	1567.3	1574.5	1589.2	1612.8	1638.0	1663.2	1677.5	1672.0
57.5°	1665.4	1662.7	1663.2	1663.7	1672.0	1691.7	1719.1	1752.5	1780.0	1795.3	1791.4
60°	1735.6	1732.3	1738.3	1739.9	1754.7	1787.6	1831.4	1873.6	1909.8	1925.2	1919.2
62.5°	1815.0	1812.8	1816.7	1816.1	1832.0	1868.7	1927.4	1994.8	2049.5	2069.3	2060.5
65°	1943.2	1936.7	1935.0	1929.0	1939.4	1967.9	2026.6	2104.9	2192.6	2243.0	2230.9
67.5°	2096.7	2095.0	2089.6	2086.3	2090.1	2125.7	2182.2	2257.8	2347.1	2416.7	2432.0
70°	2198.0	2200.3	2205.7	2213.9	2245.7	2314.8	2417.8	2532.4	2655.1	2707.2	2697.8
72.5°	2178.9	2182.2	2186.6	2197.0	2238.6	2321.4	2457.3	2628.2	2782.3	2851.3	2792.1
75°	2085.2	2087.9	2097.8	2113.7	2164.6	2264.9	2411.2	2592.7	2751.5	2820.6	2758.7
76°	1998.6	2007.4	2025.4	2044.1	2105.5	2214.5	2370.7	2564.2	2732.4	2802.5	2742.8
77.5°	1802.4	1810.1	1824.9	1857.2	1926.8	2066.5	2249.0	2439.2	2614.6	2677.6	2627.2
80°	1356.3	1362.9	1376.6	1415.5	1475.8	1562.4	1703.8	1889.5	2081.9	2164.6	2131.7
82.5°	572.7	580.3	634.6	691.0	757.4	851.0	943.1	1107.5	1248.9	1343.2	1292.8
85°	63.0	77.8	95.9	130.4	160.0	213.2	265.3	365.0	461.4	520.1	459.8
87.5°	11.0	12.6	18.1	23.0	25.7	29.6	35.6	49.9	68.0	58.6	59.8
90°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.1	1.1	1.1	1.1
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
97.5°	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
102.5°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1
105°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
107.5°	0.5	0.5	0.5	0.5	1.1	1.1	0.5	0.5	0.5	1.1	0.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
117.5°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
120°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
122.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
125°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
127.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
130°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
135°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
137.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
140°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
142.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
145°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.0	0.5
147.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5
150°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.0	0.0	0.0
152.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.0	0.0
155°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.0	0.5
157.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.0	0.0	0.0
160°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.0	0.0	0.0
162.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.0	0.0	0.0
165°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	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°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	834.1	834.1	835.1	834.6	834.6	835.1	836.3	835.7
5°	834.6	835.1	834.1	834.6	835.1	835.1	835.7	835.1
7.5°	833.5	833.5	833.5	834.1	834.6	834.1	834.6	834.6
10°	831.4	831.9	831.4	832.4	833.0	833.0	833.5	833.5
12.5°	829.7	829.7	829.7	830.8	831.4	831.4	831.9	831.4
15°	828.1	828.1	827.5	828.6	829.7	829.7	830.2	830.2
17.5°	827.5	827.5	826.9	828.1	829.1	829.1	829.7	829.7
20°	829.1	829.7	828.6	829.7	830.8	831.4	831.4	831.4
22.5°	835.7	835.1	833.5	834.1	834.6	834.6	834.6	834.6
25°	845.6	844.5	842.8	842.3	841.7	841.2	841.2	841.2
27.5°	862.6	860.9	858.2	857.6	857.1	856.0	856.0	856.0
30°	882.8	880.7	877.4	876.2	874.6	873.5	873.0	872.5
32.5°	911.9	907.5	903.7	900.9	899.3	896.0	895.4	894.4
35°	945.3	942.0	936.5	934.9	932.2	930.5	930.0	927.2
37.5°	991.4	987.5	982.6	981.5	980.9	979.3	979.3	978.7
40°	1055.5	1051.6	1047.2	1042.9	1043.9	1044.5	1044.5	1042.3
42.5°	1133.8	1127.8	1119.1	1121.8	1120.1	1117.9	1122.3	1119.6
45°	1223.2	1214.9	1208.3	1205.6	1205.6	1202.9	1207.3	1207.3
47.5°	1322.3	1309.2	1297.1	1297.7	1293.3	1294.4	1297.1	1301.0
50°	1427.0	1409.5	1398.0	1392.5	1388.1	1389.8	1394.7	1395.8
52.5°	1535.5	1514.2	1498.8	1490.6	1485.1	1487.3	1491.1	1494.4
55°	1648.4	1624.9	1601.8	1593.1	1586.5	1590.9	1591.4	1595.8
57.5°	1766.2	1733.9	1707.1	1693.9	1687.3	1691.7	1695.0	1699.4
60°	1885.1	1847.9	1816.1	1800.8	1791.4	1797.5	1805.2	1807.3
62.5°	2023.3	1971.7	1936.1	1914.2	1909.8	1915.9	1918.0	1924.6
65°	2186.6	2124.7	2075.3	2048.5	2047.4	2050.7	2055.6	2057.2
67.5°	2372.9	2303.8	2237.5	2210.7	2200.3	2210.1	2215.1	2221.6
70°	2635.9	2541.1	2445.2	2385.5	2360.3	2352.6	2354.8	2361.9
72.5°	2665.5	2563.6	2451.8	2370.7	2326.3	2306.0	2305.5	2306.6
75°	2600.9	2438.1	2359.2	2266.0	2203.0	2170.1	2165.8	2165.2
76°	2568.5	2376.2	2262.2	2188.2	2112.6	2079.2	2074.2	2071.5
77.5°	2432.0	2225.5	2053.9	2009.0	1936.7	1894.5	1903.3	1896.1
80°	1949.8	1744.9	1583.2	1456.6	1460.5	1429.7	1417.1	1413.3
82.5°	1149.2	980.9	802.3	697.6	597.9	571.6	492.1	474.0
85°	367.1	260.3	157.8	114.5	77.8	65.2	50.9	46.6
87.5°	48.8	38.3	31.3	30.1	27.4	23.6	15.4	11.0
90°	0.5	0.5	0.5	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°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
102.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5
105°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
107.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1



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CATALOG NUMBER: VST-E03-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
112.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
115°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
117.5°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
120°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
122.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
125°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
127.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
130°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
132.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
135°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
137.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
140°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
142.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
145°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
147.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
150°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
152.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
155°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
157.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
160°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
162.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
165°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
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)