

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: P157803

Luminaire Tested: **VST-F06-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157803
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-F06-LED-E-U-5XQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13220.8 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 156.5
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

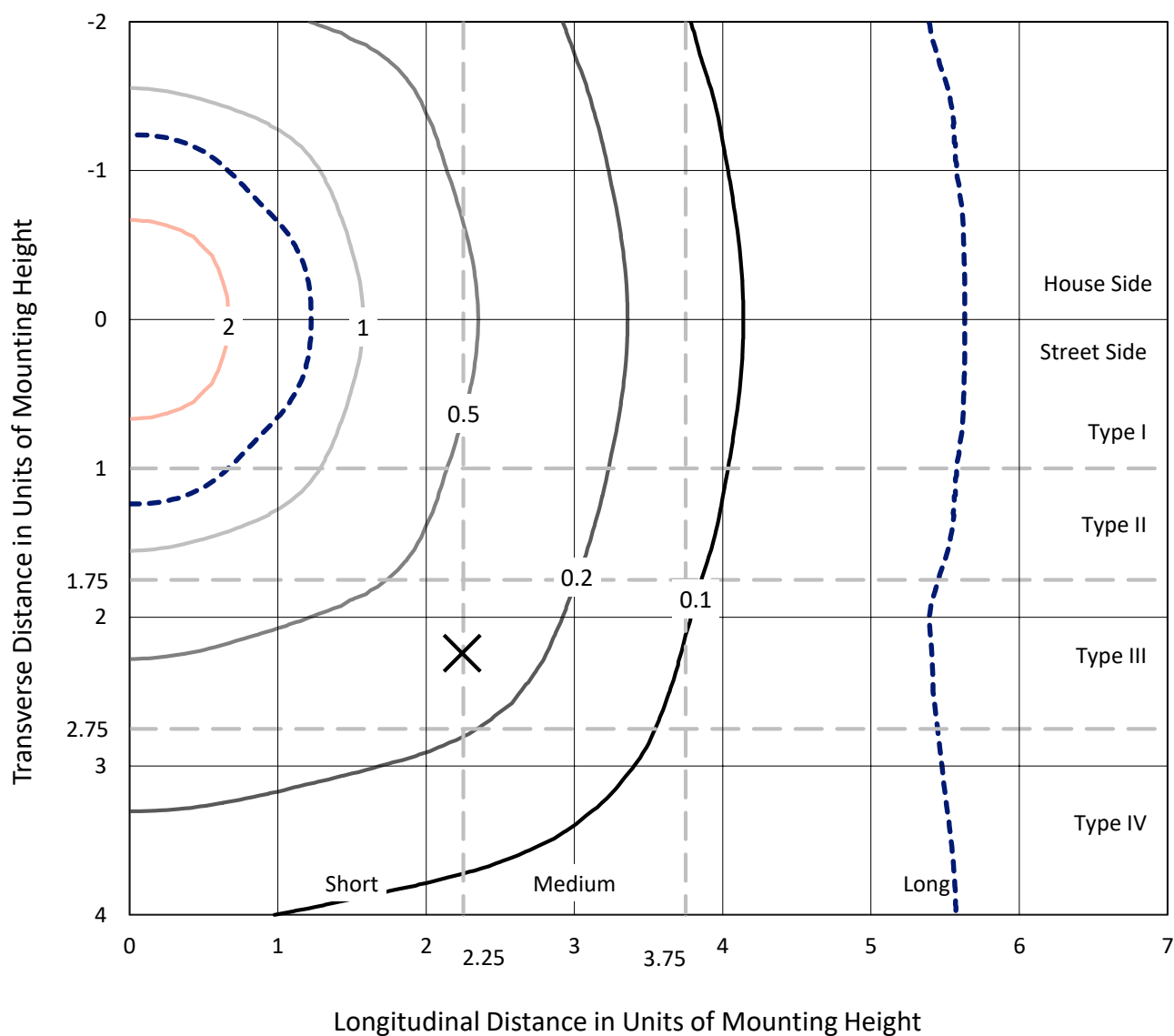


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

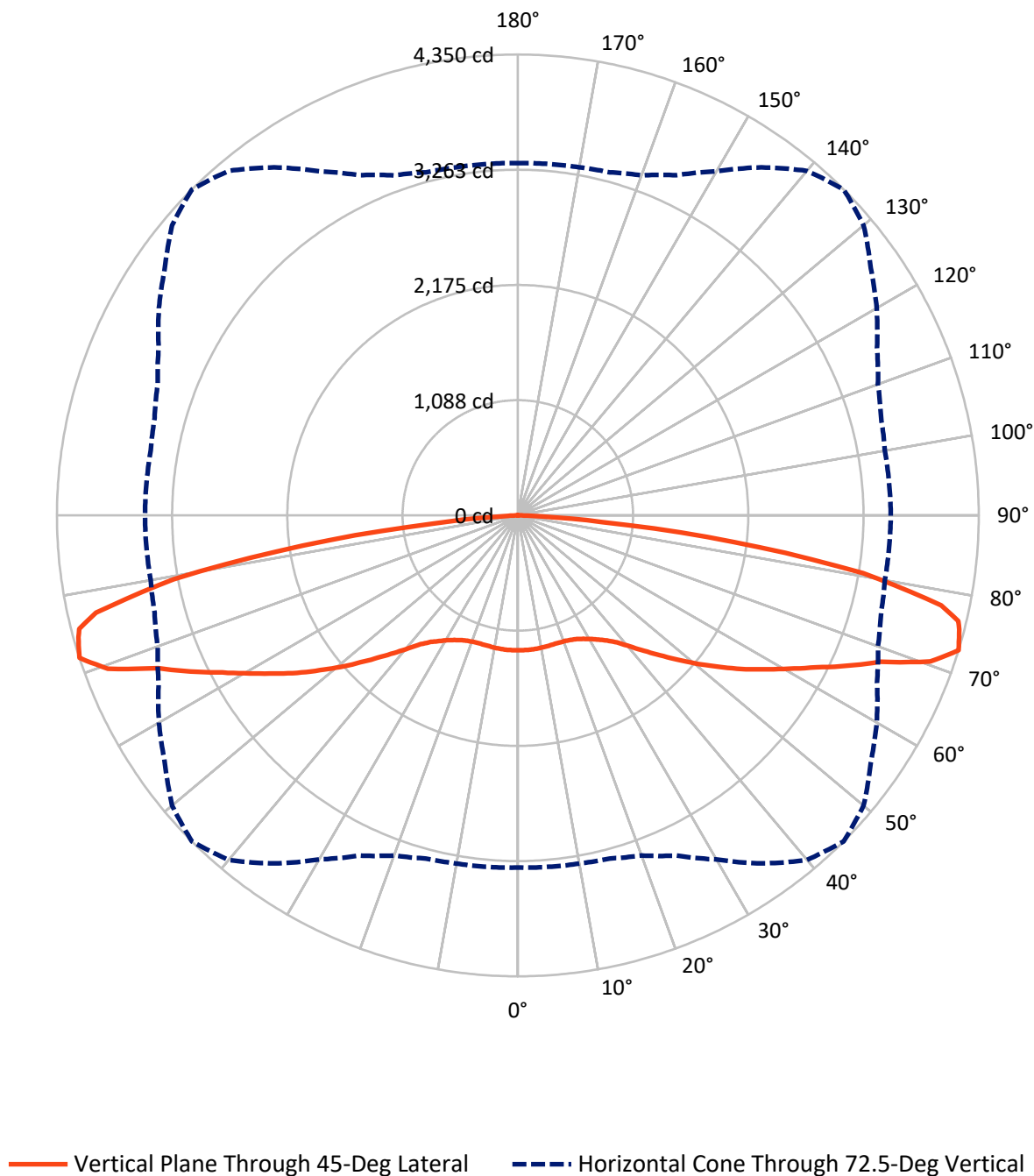


Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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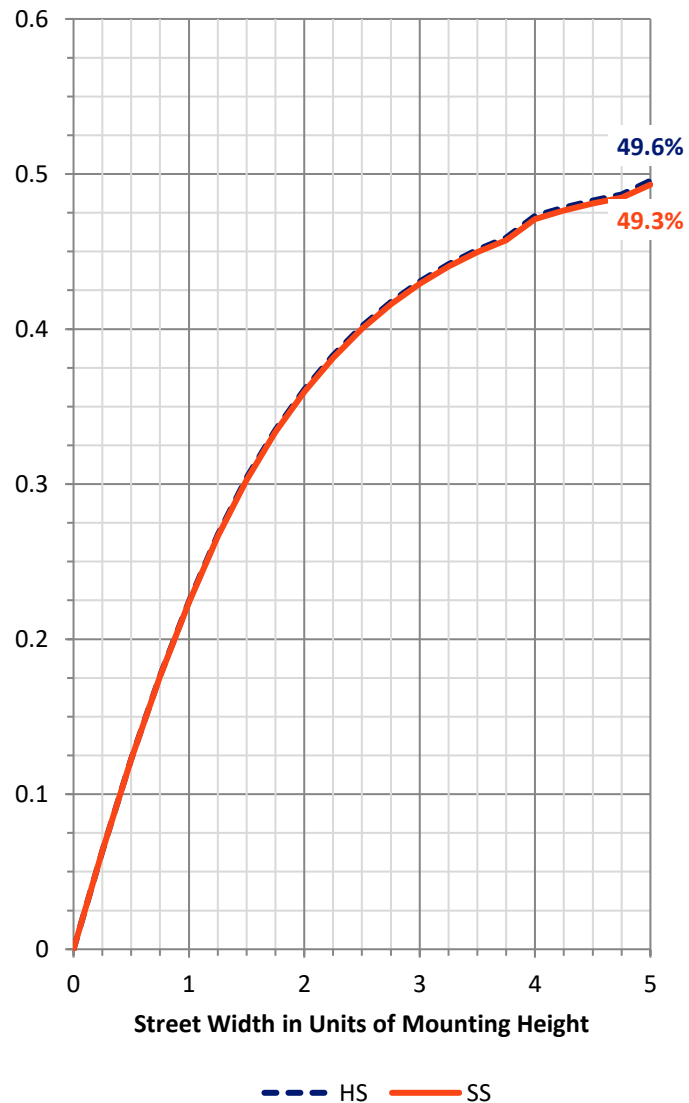
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6607.2	3.2	6610.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6607.2	3.2	6610.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13214.5	6.4	13220.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	0.9
10°-20°	358.6	2.7
20°-30°	599.6	4.5
30°-40°	911.4	6.9
40°-50°	1443.5	10.9
50°-60°	2208.1	16.7
60°-70°	3160.1	23.9
70°-80°	3615.9	27.3
80°-90°	795.8	6.0
90°-100°	0.6	0.0
100°-110°	1.4	0.0
110°-120°	0.9	0.0
120°-130°	1.0	0.0
130°-140°	1.0	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	13214.5	100.0
0°-180°	13220.8	100.0

Coefficient of Utilization



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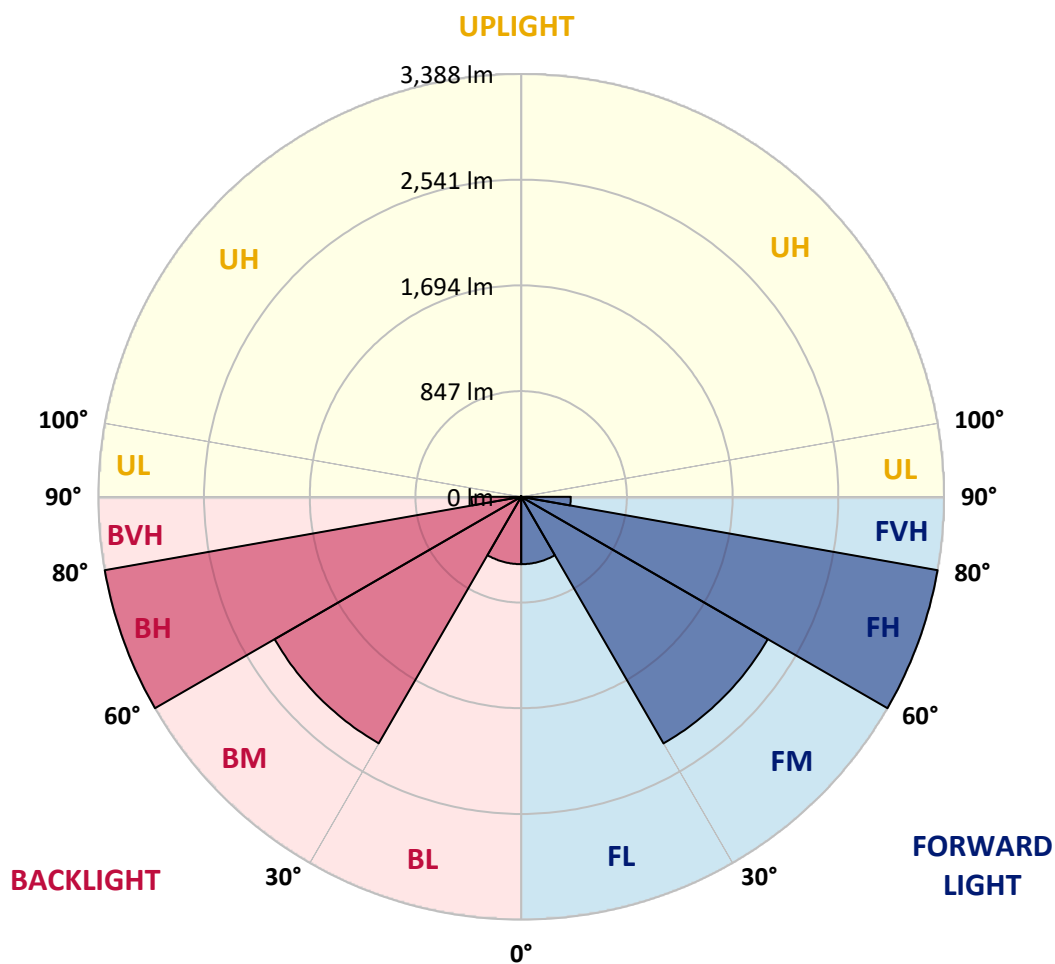
CATALOG NUMBER: VST-F06-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.8	4.1			
FM	(30°-60°)	2281.5	17.3			
FH	(60°-80°)	3388.0	25.6			G2/5000
FVH	(80°-90°)	397.9	3.0			G3/500
BL	(0°-30°)	539.8	4.1	B2/1000		
BM	(30°-60°)	2281.5	17.3	B2/2500		
BH	(60°-80°)	3388.0	25.6	B4/5000		G2/5000
BVH	(80°-90°)	397.9	3.0			G3/500
UL	(90°-100°)	0.6	0.0		U1/10	
UH	(100°-180°)	3.2	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5
2.5°	1273.4	1271.7	1272.5	1274.2	1273.4	1273.4	1272.5	1272.5	1274.2	1272.5	1273.4
5°	1274.2	1272.5	1273.4	1274.2	1273.4	1274.2	1273.4	1273.4	1273.4	1272.5	1274.2
7.5°	1270.8	1270.8	1271.7	1271.7	1270.8	1271.7	1271.7	1271.7	1270.8	1270.8	1272.5
10°	1269.2	1268.3	1268.3	1269.2	1268.3	1268.3	1269.2	1269.2	1267.5	1267.5	1269.2
12.5°	1266.7	1265.8	1265.8	1265.8	1265.0	1265.0	1265.8	1265.8	1265.0	1264.2	1266.7
15°	1265.0	1264.2	1264.2	1264.2	1262.5	1263.3	1263.3	1263.3	1262.5	1261.6	1264.2
17.5°	1264.2	1263.3	1263.3	1263.3	1262.5	1262.5	1262.5	1262.5	1261.6	1261.6	1263.3
20°	1265.8	1265.8	1265.8	1265.8	1265.0	1265.0	1265.0	1265.8	1265.8	1265.8	1267.5
22.5°	1270.0	1270.0	1270.8	1271.7	1271.7	1273.4	1274.2	1275.0	1275.0	1275.9	1277.5
25°	1280.9	1280.9	1281.7	1282.6	1285.1	1286.7	1290.1	1291.7	1292.6	1292.6	1293.4
27.5°	1300.9	1301.8	1303.5	1305.1	1308.5	1311.0	1314.3	1317.7	1318.5	1319.3	1320.2
30°	1326.0	1326.9	1330.2	1331.9	1336.1	1341.1	1345.3	1348.6	1351.1	1352.8	1351.9
32.5°	1362.0	1363.7	1367.8	1370.3	1376.2	1381.2	1387.1	1392.1	1394.6	1397.1	1396.3
35°	1412.1	1416.3	1420.5	1423.0	1428.9	1433.0	1440.6	1445.6	1450.6	1448.9	1449.8
37.5°	1486.6	1489.9	1490.7	1492.4	1498.3	1501.6	1510.0	1516.7	1519.2	1520.8	1521.7
40°	1586.9	1586.9	1591.1	1587.7	1595.2	1596.1	1606.1	1615.3	1617.8	1624.5	1619.5
42.5°	1703.9	1703.1	1705.6	1703.1	1703.1	1711.5	1719.8	1736.5	1738.2	1746.6	1741.6
45°	1831.0	1831.0	1828.5	1829.3	1831.0	1840.2	1850.3	1868.6	1877.0	1882.0	1878.7
47.5°	1969.0	1965.6	1964.8	1964.0	1969.0	1979.0	1994.1	2011.6	2032.5	2034.2	2032.5
50°	2108.6	2107.8	2101.9	2106.9	2110.3	2115.3	2143.7	2167.1	2188.9	2202.2	2198.1
52.5°	2255.8	2248.2	2248.2	2248.2	2256.6	2272.5	2297.6	2329.3	2358.6	2372.8	2370.3
55°	2404.6	2402.1	2394.5	2391.2	2402.1	2424.6	2460.6	2499.1	2537.5	2559.2	2550.9
57.5°	2540.9	2536.7	2537.5	2538.3	2550.9	2581.0	2622.8	2673.8	2715.6	2739.0	2733.2
60°	2647.9	2642.9	2652.1	2654.6	2677.1	2727.3	2794.2	2858.6	2913.7	2937.2	2928.0
62.5°	2769.1	2765.8	2771.6	2770.8	2795.0	2851.0	2940.5	3043.3	3126.9	3157.0	3143.7
65°	2964.7	2954.7	2952.2	2943.0	2958.9	3002.4	3091.8	3211.4	3345.2	3422.1	3403.7
67.5°	3198.9	3196.3	3188.0	3183.0	3188.8	3243.2	3329.3	3444.7	3580.9	3687.1	3710.5
70°	3353.5	3356.9	3365.2	3377.8	3426.3	3531.6	3688.8	3863.5	4050.8	4130.2	4116.0
72.5°	3324.3	3329.3	3336.0	3351.9	3415.4	3541.6	3749.0	4009.9	4244.8	4350.1	4259.8
75°	3181.3	3185.5	3200.5	3224.8	3302.5	3455.5	3678.8	3955.5	4198.0	4303.3	4208.8
76°	3049.2	3062.6	3090.2	3118.6	3212.2	3378.6	3616.9	3912.0	4168.7	4275.7	4184.6
77.5°	2749.9	2761.6	2784.2	2833.5	2939.7	3152.9	3431.3	3721.4	3989.0	4085.1	4008.2
80°	2069.3	2079.3	2100.2	2159.6	2251.6	2383.7	2599.4	2882.8	3176.3	3302.5	3252.4
82.5°	873.7	885.4	968.2	1054.3	1155.5	1298.4	1438.9	1689.7	1905.4	2049.2	1972.3
85°	96.1	118.7	146.3	199.0	244.1	325.2	404.7	556.8	704.0	793.4	701.5
87.5°	16.7	19.2	27.6	35.1	39.3	45.1	54.3	76.1	103.7	89.5	91.1
90°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
97.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
102.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
105°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
107.5°	0.8	0.8	0.8	0.8	1.7	1.7	0.8	0.8	0.8	1.7	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
140°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.8
147.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
150°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0
152.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0
155°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.8
157.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0
160°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0
162.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0
165°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5	1272.5
2.5°	1272.5	1272.5	1274.2	1273.4	1273.4	1274.2	1275.9	1275.0
5°	1273.4	1274.2	1272.5	1273.4	1274.2	1274.2	1275.0	1274.2
7.5°	1271.7	1271.7	1271.7	1272.5	1273.4	1272.5	1273.4	1273.4
10°	1268.3	1269.2	1268.3	1270.0	1270.8	1270.8	1271.7	1271.7
12.5°	1265.8	1265.8	1265.8	1267.5	1268.3	1268.3	1269.2	1268.3
15°	1263.3	1263.3	1262.5	1264.2	1265.8	1265.8	1266.7	1266.7
17.5°	1262.5	1262.5	1261.6	1263.3	1265.0	1265.0	1265.8	1265.8
20°	1265.0	1265.8	1264.2	1265.8	1267.5	1268.3	1268.3	1268.3
22.5°	1275.0	1274.2	1271.7	1272.5	1273.4	1273.4	1273.4	1273.4
25°	1290.1	1288.4	1285.9	1285.1	1284.2	1283.4	1283.4	1283.4
27.5°	1316.0	1313.5	1309.3	1308.5	1307.6	1306.0	1306.0	1306.0
30°	1346.9	1343.6	1338.6	1336.9	1334.4	1332.7	1331.9	1331.0
32.5°	1391.2	1384.6	1378.7	1374.5	1372.0	1367.0	1366.2	1364.5
35°	1442.2	1437.2	1428.9	1426.4	1422.2	1419.7	1418.8	1414.7
37.5°	1512.5	1506.6	1499.1	1497.4	1496.6	1494.1	1494.1	1493.2
40°	1610.3	1604.4	1597.8	1591.1	1592.7	1593.6	1593.6	1590.2
42.5°	1729.9	1720.7	1707.3	1711.5	1709.0	1705.6	1712.3	1708.1
45°	1866.1	1853.6	1843.6	1839.4	1839.4	1835.2	1841.9	1841.9
47.5°	2017.5	1997.4	1979.0	1979.8	1973.2	1974.8	1979.0	1984.9
50°	2177.2	2150.4	2132.8	2124.5	2117.8	2120.3	2127.8	2129.5
52.5°	2342.7	2310.1	2286.7	2274.1	2265.8	2269.1	2275.0	2280.0
55°	2514.9	2479.0	2443.9	2430.5	2420.5	2427.1	2428.0	2434.7
57.5°	2694.7	2645.4	2604.4	2584.3	2574.3	2581.0	2586.0	2592.7
60°	2876.1	2819.3	2770.8	2747.4	2733.2	2742.4	2754.1	2757.4
62.5°	3086.8	3008.2	2953.9	2920.4	2913.7	2922.9	2926.3	2936.3
65°	3336.0	3241.5	3166.2	3125.3	3123.6	3128.6	3136.1	3138.7
67.5°	3620.2	3514.9	3413.7	3372.8	3356.9	3371.9	3379.4	3389.5
70°	4021.6	3876.9	3730.6	3639.5	3601.0	3589.3	3592.6	3603.5
72.5°	4066.7	3911.2	3740.6	3616.9	3549.2	3518.2	3517.4	3519.1
75°	3968.0	3719.7	3599.3	3457.2	3361.1	3310.9	3304.2	3303.4
76°	3918.7	3625.3	3451.3	3338.5	3223.1	3172.1	3164.6	3160.4
77.5°	3710.5	3395.3	3133.6	3065.1	2954.7	2890.3	2903.7	2892.8
80°	2974.8	2662.1	2415.4	2222.3	2228.2	2181.3	2162.1	2156.3
82.5°	1753.3	1496.6	1224.0	1064.3	912.2	872.0	750.8	723.2
85°	560.2	397.1	240.8	174.7	118.7	99.5	77.8	71.1
87.5°	74.4	58.5	47.7	46.0	41.8	36.0	23.4	16.7
90°	0.8	0.8	0.8	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°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
105°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
107.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CATALOG NUMBER: VST-F06-LED-E-U-5XQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
117.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
120°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
122.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
125°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
127.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
130°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
132.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
135°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
137.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
140°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
142.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
145°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
147.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
150°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
152.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
155°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
157.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
160°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
162.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
165°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
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)