

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: P157794

Luminaire Tested: **VST-F05-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157794
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-F05-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11923 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 133.3
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

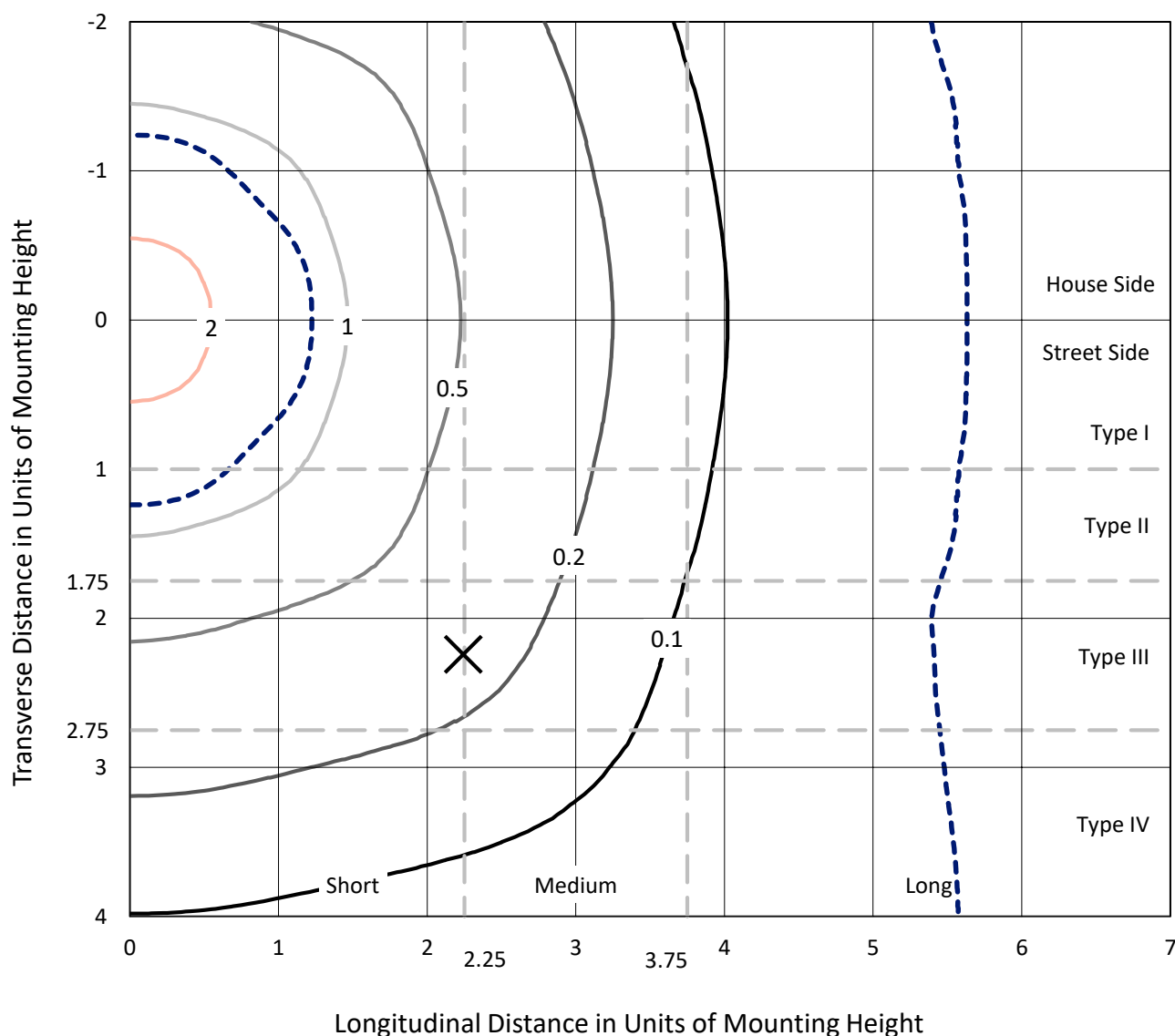


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

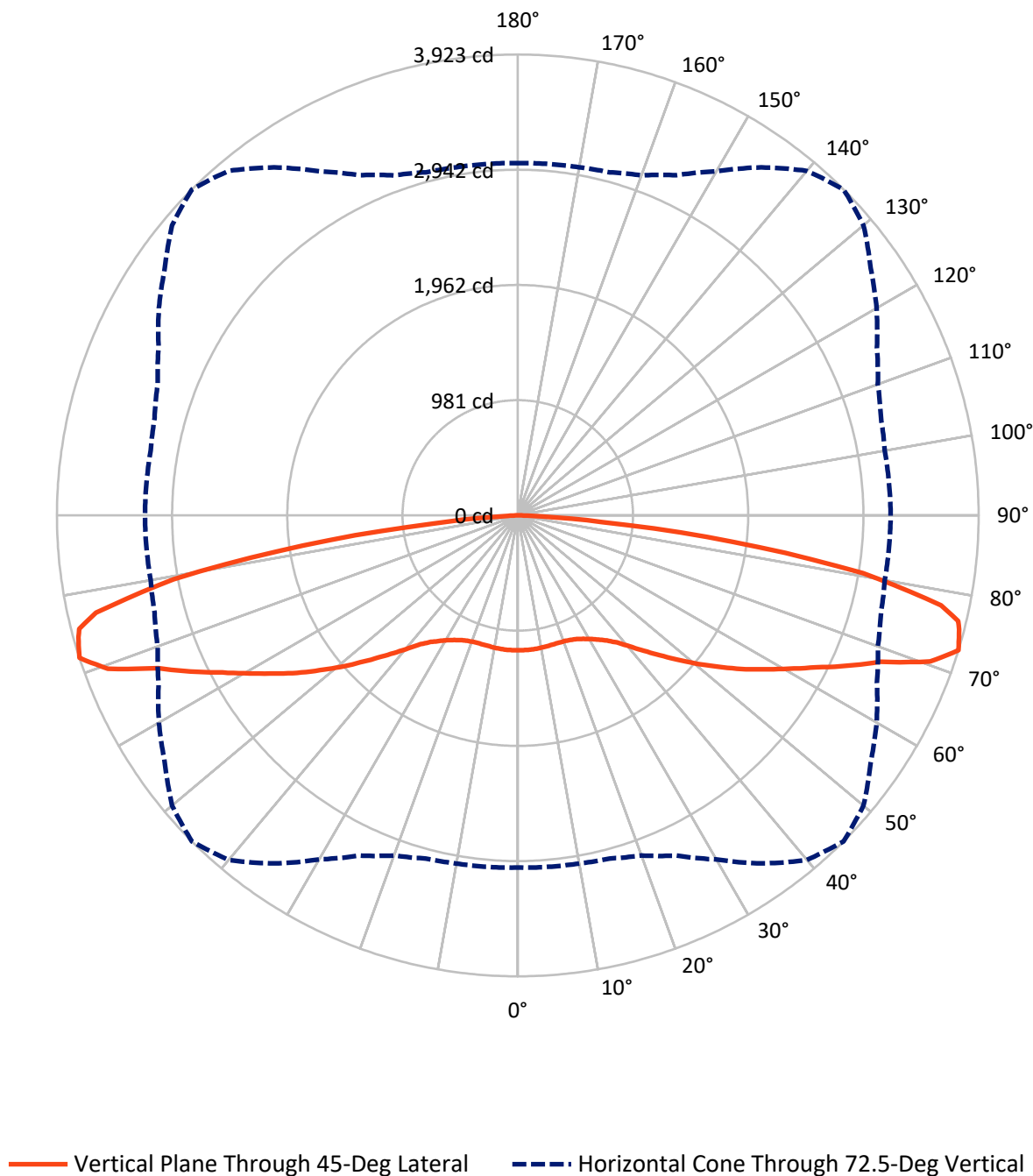


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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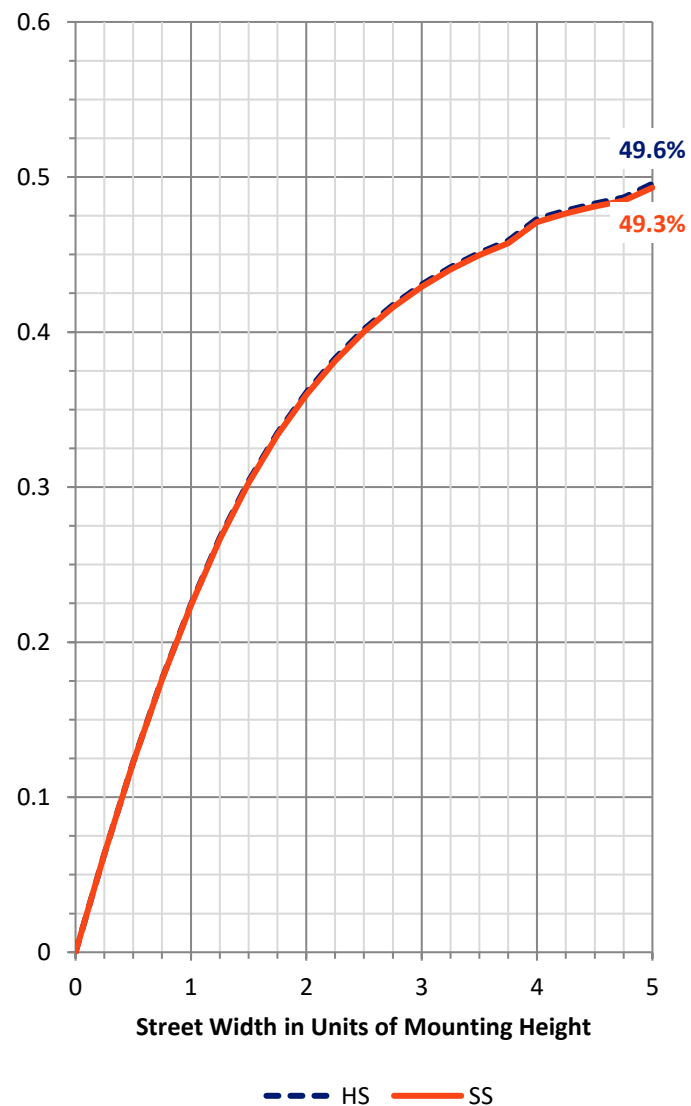
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5958.5	3.0	5961.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5958.5	3.0	5961.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11917.0	6.0	11923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	0.9
10°-20°	323.4	2.7
20°-30°	540.8	4.5
30°-40°	821.9	6.9
40°-50°	1301.8	10.9
50°-60°	1991.3	16.7
60°-70°	2849.9	23.9
70°-80°	3260.9	27.3
80°-90°	717.7	6.0
90°-100°	0.6	0.0
100°-110°	1.3	0.0
110°-120°	0.9	0.0
120°-130°	1.0	0.0
130°-140°	0.9	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°	11917.0	100.0
0°-180°	11923.0	100.0

Coefficient of Utilization



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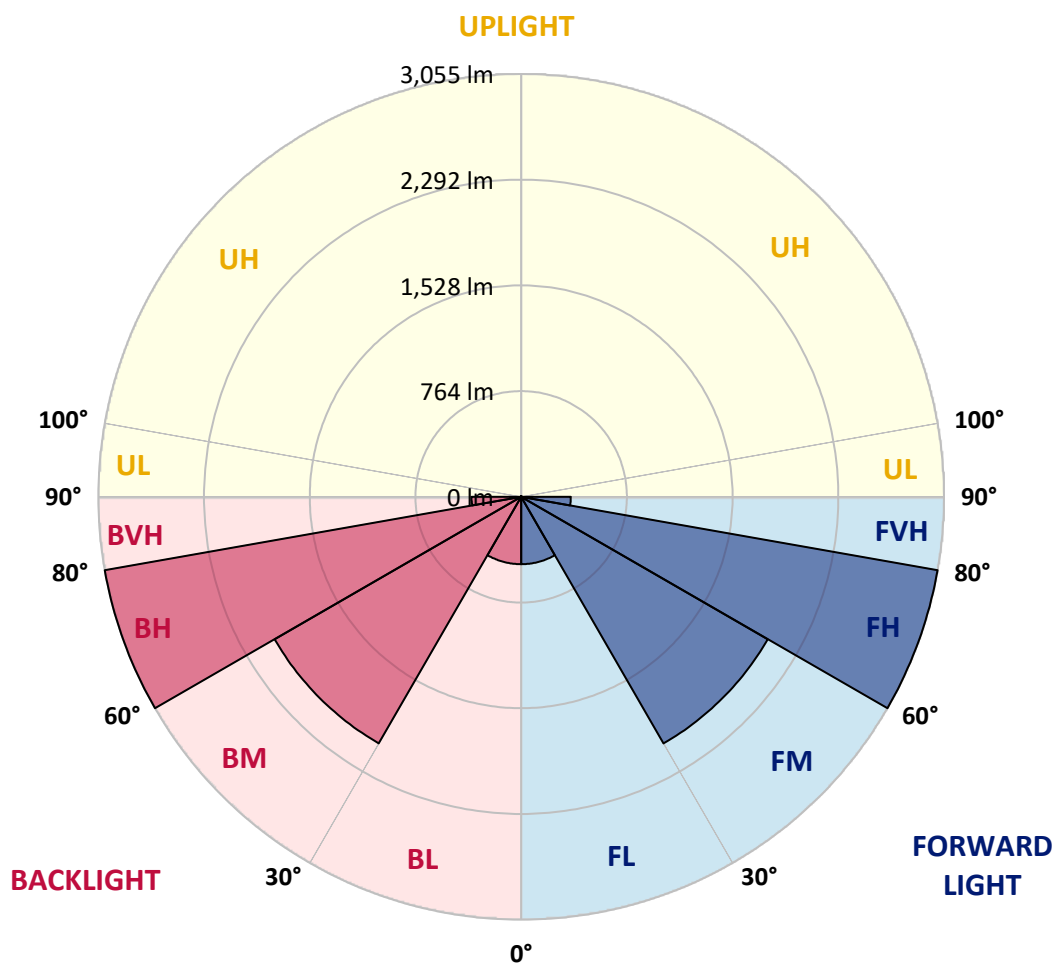
CATALOG NUMBER: VST-F05-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.8	4.1			
FM	(30°-60°)	2057.5	17.3			
FH	(60°-80°)	3055.4	25.6			G2/5000
FVH	(80°-90°)	358.8	3.0			G3/500
BL	(0°-30°)	486.8	4.1	B1/500		
BM	(30°-60°)	2057.5	17.3	B2/2500		
BH	(60°-80°)	3055.4	25.6	B4/5000		G2/5000
BVH	(80°-90°)	358.8	3.0			G3/500
UL	(90°-100°)	0.6	0.0		U1/10	
UH	(100°-180°)	3.0	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°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1148.3	1146.8	1147.6	1149.1	1148.3	1148.3	1147.6	1147.6	1149.1	1147.6	1148.3
5°	1149.1	1147.6	1148.3	1149.1	1148.3	1149.1	1148.3	1148.3	1148.3	1147.6	1149.1
7.5°	1146.1	1146.1	1146.8	1146.8	1146.1	1146.8	1146.8	1146.8	1146.1	1146.1	1147.6
10°	1144.6	1143.8	1143.8	1144.6	1143.8	1143.8	1144.6	1144.6	1143.1	1143.1	1144.6
12.5°	1142.3	1141.5	1141.5	1141.5	1140.8	1140.8	1141.5	1141.5	1140.8	1140.0	1142.3
15°	1140.8	1140.0	1140.0	1140.0	1138.5	1139.3	1139.3	1139.3	1138.5	1137.8	1140.0
17.5°	1140.0	1139.3	1139.3	1139.3	1138.5	1138.5	1138.5	1138.5	1137.8	1137.8	1139.3
20°	1141.5	1141.5	1141.5	1141.5	1140.8	1140.8	1140.8	1141.5	1141.5	1141.5	1143.1
22.5°	1145.3	1145.3	1146.1	1146.8	1146.8	1148.3	1149.1	1149.8	1149.8	1150.6	1152.1
25°	1155.1	1155.1	1155.9	1156.6	1158.9	1160.4	1163.4	1164.9	1165.7	1165.7	1166.4
27.5°	1173.2	1174.0	1175.5	1177.0	1180.0	1182.3	1185.3	1188.3	1189.0	1189.8	1190.6
30°	1195.8	1196.6	1199.6	1201.1	1204.9	1209.4	1213.2	1216.2	1218.5	1220.0	1219.2
32.5°	1228.3	1229.8	1233.5	1235.8	1241.1	1245.6	1250.9	1255.4	1257.7	1259.9	1259.2
35°	1273.5	1277.3	1281.0	1283.3	1288.6	1292.3	1299.1	1303.7	1308.2	1306.7	1307.4
37.5°	1340.6	1343.6	1344.4	1345.9	1351.2	1354.2	1361.7	1367.7	1370.0	1371.5	1372.3
40°	1431.1	1431.1	1434.8	1431.8	1438.6	1439.4	1448.4	1456.7	1459.0	1465.0	1460.5
42.5°	1536.6	1535.9	1538.1	1535.9	1535.9	1543.4	1551.0	1566.0	1567.6	1575.1	1570.6
45°	1651.2	1651.2	1649.0	1649.7	1651.2	1659.5	1668.6	1685.2	1692.7	1697.2	1694.2
47.5°	1775.7	1772.6	1771.9	1771.1	1775.7	1784.7	1798.3	1814.1	1833.0	1834.5	1833.0
50°	1901.6	1900.8	1895.5	1900.1	1903.1	1907.6	1933.2	1954.4	1974.0	1986.0	1982.2
52.5°	2034.3	2027.5	2027.5	2027.5	2035.0	2049.4	2072.0	2100.6	2127.0	2139.8	2137.6
55°	2168.5	2166.2	2159.4	2156.4	2166.2	2186.6	2219.0	2253.7	2288.4	2308.0	2300.4
57.5°	2291.4	2287.6	2288.4	2289.1	2300.4	2327.6	2365.3	2411.3	2449.0	2470.1	2464.8
60°	2387.9	2383.4	2391.7	2393.9	2414.3	2459.5	2519.8	2577.9	2627.7	2648.8	2640.5
62.5°	2497.2	2494.2	2499.5	2498.7	2520.6	2571.1	2651.8	2744.5	2819.9	2847.1	2835.0
65°	2673.7	2664.6	2662.4	2654.1	2668.4	2707.6	2788.3	2896.1	3016.7	3086.1	3069.5
67.5°	2884.8	2882.5	2875.0	2870.5	2875.7	2924.7	3002.4	3106.5	3229.4	3325.1	3346.2
70°	3024.3	3027.3	3034.8	3046.1	3089.9	3184.9	3326.6	3484.2	3653.1	3724.7	3711.9
72.5°	2997.9	3002.4	3008.4	3022.8	3080.1	3193.9	3380.9	3616.2	3828.0	3923.0	3841.6
75°	2868.9	2872.7	2886.3	2908.2	2978.3	3116.3	3317.6	3567.1	3785.8	3880.8	3795.6
76°	2749.8	2761.9	2786.8	2812.4	2896.8	3046.9	3261.8	3527.9	3759.4	3855.9	3773.7
77.5°	2479.9	2490.4	2510.8	2555.3	2651.0	2843.3	3094.4	3356.0	3597.3	3684.0	3614.6
80°	1866.1	1875.2	1894.0	1947.6	2030.5	2149.6	2344.2	2599.8	2864.4	2978.3	2933.0
82.5°	787.9	798.5	873.1	950.8	1042.0	1171.0	1297.6	1523.8	1718.4	1848.0	1778.7
85°	86.7	107.1	131.9	179.5	220.2	293.3	364.9	502.2	634.9	715.5	632.6
87.5°	15.1	17.3	24.9	31.7	35.4	40.7	49.0	68.6	93.5	80.7	82.2
90°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.5	1.5	1.5	1.5
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	1.5	1.5	1.5
102.5°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5
105°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
107.5°	0.8	0.8	0.8	0.8	1.5	1.5	0.8	0.8	0.8	1.5	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°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
140°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.8
147.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	0.8
150°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.0	0.0	0.0
152.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.0
155°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.8
157.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.0	0.0
160°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.0	0.0
162.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.0	0.0	0.0
165°	1.5	1.5	1.5	1.5	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°	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6	1147.6
2.5°	1147.6	1147.6	1149.1	1148.3	1148.3	1149.1	1150.6	1149.8
5°	1148.3	1149.1	1147.6	1148.3	1149.1	1149.1	1149.8	1149.1
7.5°	1146.8	1146.8	1146.8	1147.6	1148.3	1147.6	1148.3	1148.3
10°	1143.8	1144.6	1143.8	1145.3	1146.1	1146.1	1146.8	1146.8
12.5°	1141.5	1141.5	1141.5	1143.1	1143.8	1143.8	1144.6	1143.8
15°	1139.3	1139.3	1138.5	1140.0	1141.5	1141.5	1142.3	1142.3
17.5°	1138.5	1138.5	1137.8	1139.3	1140.8	1140.8	1141.5	1141.5
20°	1140.8	1141.5	1140.0	1141.5	1143.1	1143.8	1143.8	1143.8
22.5°	1149.8	1149.1	1146.8	1147.6	1148.3	1148.3	1148.3	1148.3
25°	1163.4	1161.9	1159.6	1158.9	1158.1	1157.4	1157.4	1157.4
27.5°	1186.8	1184.5	1180.8	1180.0	1179.2	1177.7	1177.7	1177.7
30°	1214.7	1211.7	1207.1	1205.6	1203.4	1201.9	1201.1	1200.4
32.5°	1254.6	1248.6	1243.3	1239.6	1237.3	1232.8	1232.0	1230.5
35°	1300.6	1296.1	1288.6	1286.3	1282.5	1280.3	1279.5	1275.8
37.5°	1364.0	1358.7	1351.9	1350.4	1349.6	1347.4	1347.4	1346.6
40°	1452.2	1446.9	1440.9	1434.8	1436.4	1437.1	1437.1	1434.1
42.5°	1560.0	1551.7	1539.7	1543.4	1541.2	1538.1	1544.2	1540.4
45°	1682.9	1671.6	1662.6	1658.8	1658.8	1655.0	1661.0	1661.0
47.5°	1819.4	1801.3	1784.7	1785.5	1779.4	1780.9	1784.7	1790.0
50°	1963.4	1939.3	1923.4	1915.9	1909.9	1912.1	1918.9	1920.4
52.5°	2112.7	2083.3	2062.2	2050.9	2043.3	2046.3	2051.6	2056.1
55°	2268.0	2235.6	2203.9	2191.9	2182.8	2188.8	2189.6	2195.6
57.5°	2430.1	2385.6	2348.7	2330.6	2321.5	2327.6	2332.1	2338.1
60°	2593.7	2542.5	2498.7	2477.6	2464.8	2473.1	2483.7	2486.7
62.5°	2783.7	2712.9	2663.9	2633.7	2627.7	2636.0	2639.0	2648.0
65°	3008.4	2923.2	2855.4	2818.4	2816.9	2821.4	2828.2	2830.5
67.5°	3264.8	3169.8	3078.6	3041.6	3027.3	3040.9	3047.6	3056.7
70°	3626.7	3496.3	3364.3	3282.1	3247.4	3236.9	3239.9	3249.7
72.5°	3667.4	3527.2	3373.4	3261.8	3200.7	3172.8	3172.1	3173.6
75°	3578.5	3354.5	3245.9	3117.8	3031.1	2985.8	2979.8	2979.0
76°	3534.0	3269.3	3112.5	3010.7	2906.6	2860.7	2853.9	2850.1
77.5°	3346.2	3062.0	2826.0	2764.1	2664.6	2606.6	2618.6	2608.8
80°	2682.7	2400.7	2178.3	2004.1	2009.4	1967.2	1949.8	1944.5
82.5°	1581.1	1349.6	1103.8	959.8	822.6	786.4	677.1	652.2
85°	505.2	358.1	217.2	157.6	107.1	89.7	70.1	64.1
87.5°	67.1	52.8	43.0	41.5	37.7	32.4	21.1	15.1
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°	1.5	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
105°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
107.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



REPORT NUMBER: P157794

CATALOG NUMBER: VST-F05-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
117.5°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
120°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
122.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
125°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
127.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
130°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
132.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
135°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
137.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
140°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
142.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
145°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
147.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
150°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
152.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
155°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
157.5°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
160°	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
162.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
165°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
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)