

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: P158436

Luminaire Tested: **VST-F03-LED-E-U-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158436
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-SL3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7666.5 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

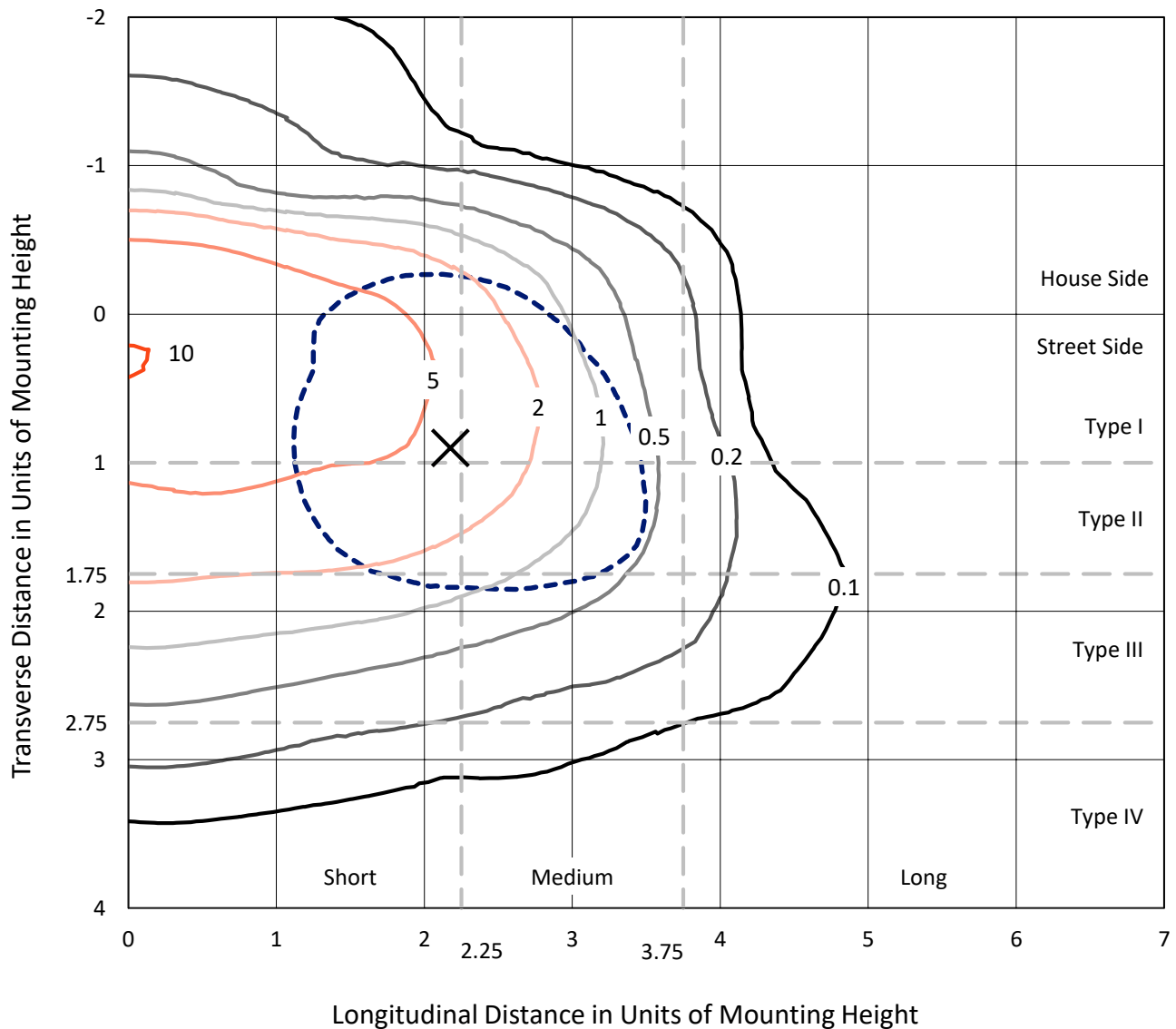


REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

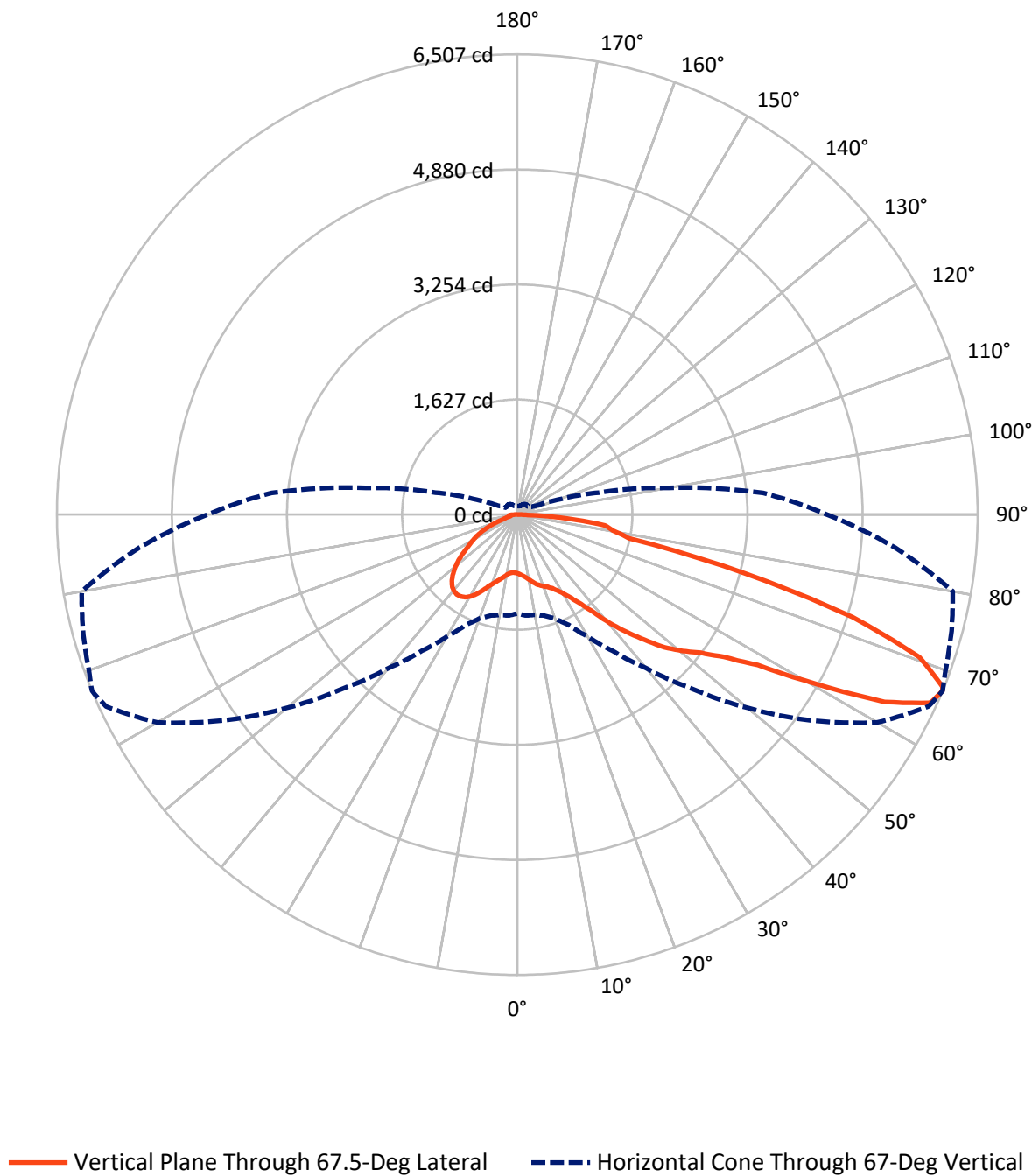


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
Type III - Short - Semi-Cutoff

REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

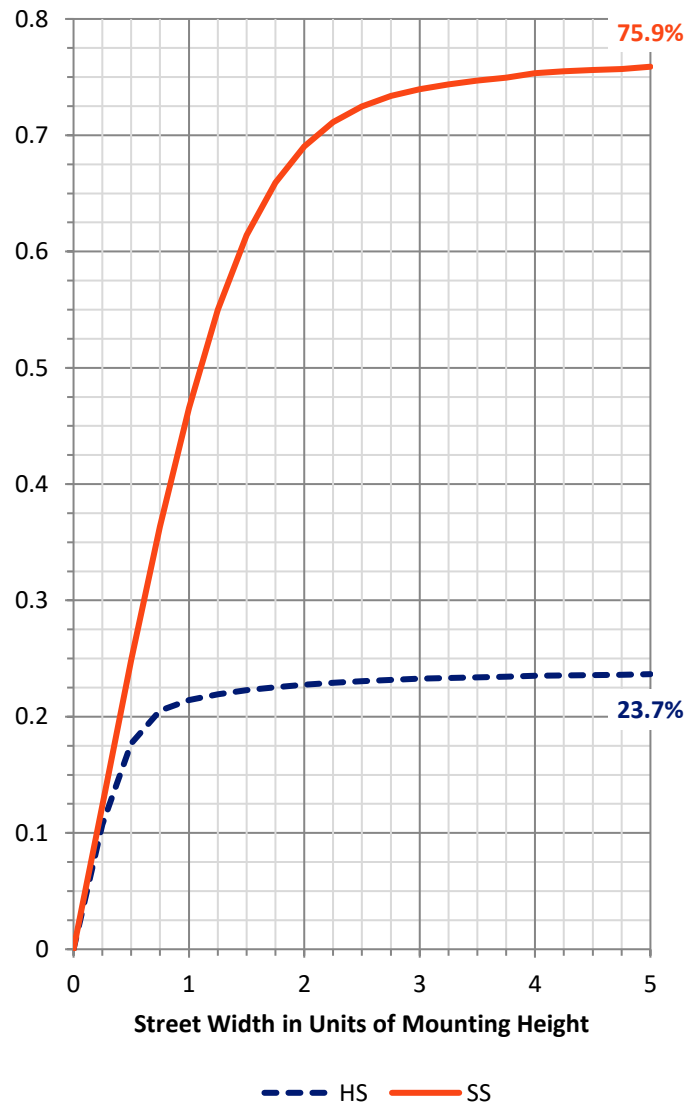
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.2	0.0	1839.2
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	5827.3	0.0	5827.3
	% Fixture	76.0	0.0	76.0
Total	Lumens	7666.5	0.0	7666.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	1.1
10°-20°	281.4	3.7
20°-30°	502.4	6.6
30°-40°	736.2	9.6
40°-50°	1137.6	14.8
50°-60°	1656.5	21.6
60°-70°	2157.9	28.1
70°-80°	965.9	12.6
80°-90°	146.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7666.5	100.0
0°-180°	7666.5	100.0

Coefficient of Utilization



REPORT NUMBER: P158436

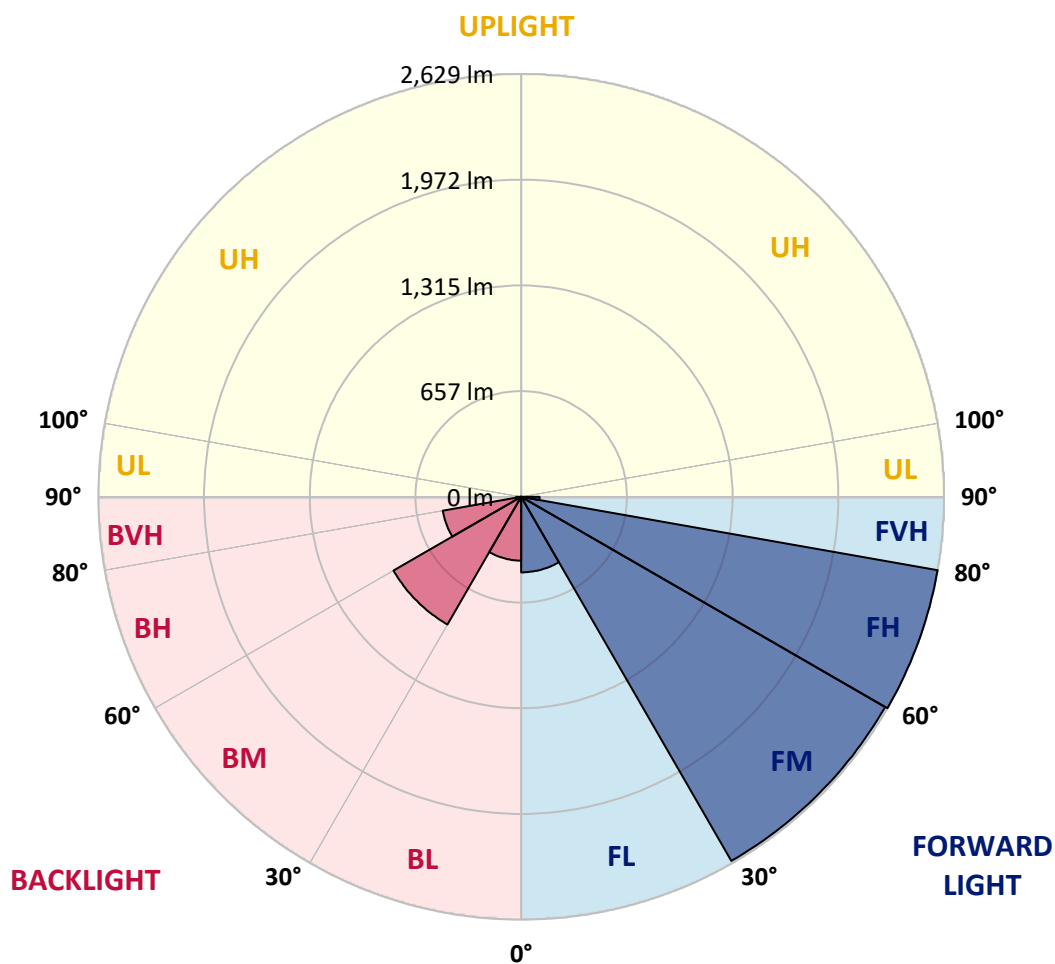
CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.7	6.1			
FM	(30°-60°)	2613.9	34.1			
FH	(60°-80°)	2629.0	34.3			G2/5000
FVH	(80°-90°)	114.7	1.5			G2/225
BL	(0°-30°)	396.6	5.2	B1/500		
BM	(30°-60°)	916.4	12.0	B1/1000		
BH	(60°-80°)	494.8	6.5	B1/500		G1/500
BVH	(80°-90°)	31.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0
2.5°	863.5	865.6	866.0	865.6	866.0	864.0	863.5	860.5	862.0	857.9	856.9
5°	910.3	911.8	912.8	908.8	909.8	907.7	905.2	902.2	898.1	892.5	888.9
7.5°	956.0	958.6	958.0	956.5	953.0	950.9	945.8	941.3	934.1	927.5	923.0
10°	1017.5	1017.0	1017.0	1008.4	1003.3	998.7	989.6	982.4	975.3	965.6	960.6
12.5°	1088.6	1085.1	1083.6	1077.5	1066.8	1058.7	1045.4	1031.8	1019.0	1008.8	1000.7
15°	1157.3	1157.3	1153.2	1143.5	1133.4	1122.7	1103.9	1084.1	1063.3	1047.0	1038.8
17.5°	1219.8	1214.2	1210.6	1198.0	1187.3	1170.0	1149.1	1127.8	1101.9	1079.0	1063.3
20°	1265.5	1261.0	1253.3	1237.6	1219.3	1199.0	1174.6	1149.7	1121.7	1096.8	1079.0
22.5°	1292.0	1286.3	1274.7	1253.8	1228.9	1200.5	1172.0	1148.6	1123.2	1104.4	1089.7
25°	1305.7	1300.1	1284.4	1256.9	1223.3	1185.7	1153.2	1130.3	1115.6	1111.0	1109.0
27.5°	1305.2	1300.6	1283.8	1252.3	1209.1	1165.9	1130.8	1111.6	1110.0	1127.8	1141.0
30°	1292.0	1288.9	1273.7	1242.2	1196.9	1151.7	1119.2	1109.0	1124.8	1162.4	1194.9
32.5°	1278.7	1277.2	1266.5	1238.1	1199.5	1161.4	1139.0	1140.0	1172.5	1230.5	1282.8
35°	1280.3	1282.3	1280.8	1265.5	1241.2	1221.3	1210.6	1233.0	1283.8	1354.0	1424.1
37.5°	1293.5	1301.1	1310.8	1312.3	1312.8	1309.7	1332.1	1379.4	1453.6	1545.1	1654.9
40°	1322.5	1331.1	1359.1	1383.4	1415.0	1452.5	1497.8	1563.4	1655.3	1768.2	1902.9
42.5°	1412.4	1424.6	1459.2	1504.4	1562.3	1621.3	1688.9	1778.3	1891.2	2010.1	2151.4
45°	1529.8	1555.3	1593.4	1643.6	1730.6	1813.4	1900.9	2000.9	2120.9	2269.8	2412.1
47.5°	1676.2	1701.6	1757.0	1810.9	1913.5	2016.7	2112.2	2216.9	2347.1	2499.5	2657.1
50°	1804.3	1833.2	1882.6	1955.2	2074.1	2200.7	2306.4	2419.7	2529.0	2689.6	2848.7
52.5°	1904.9	1925.8	1973.0	2039.6	2172.2	2311.0	2444.6	2570.7	2700.3	2860.9	3008.3
55°	1917.6	1936.9	1983.2	2059.4	2194.1	2348.1	2502.1	2651.5	2835.0	3010.3	3205.5
57.5°	1862.7	1878.5	1925.2	1993.3	2124.5	2299.8	2494.4	2686.1	2920.9	3157.7	3396.1
60°	1784.9	1800.7	1837.3	1891.7	2010.1	2199.2	2426.3	2688.6	3000.7	3342.7	3693.4
62.5°	1699.6	1713.3	1742.8	1781.4	1885.6	2059.9	2320.1	2671.9	3065.8	3526.7	4067.5
65°	1555.7	1588.8	1601.5	1641.1	1745.3	1910.0	2174.8	2558.5	3039.3	3608.5	4302.3
67°	1396.7	1430.2	1436.8	1477.0	1560.3	1718.4	1987.7	2348.6	2829.9	3467.2	4250.5
67.5°	1345.9	1374.3	1384.4	1424.6	1503.4	1652.3	1907.9	2272.9	2765.9	3390.0	4187.9
70°	989.6	1021.1	1032.2	1049.0	1105.4	1229.5	1398.7	1715.3	2205.3	2766.4	3532.8
72.5°	529.6	555.0	565.7	590.6	619.6	687.1	816.8	1043.9	1353.5	1851.0	2513.3
75°	358.3	368.5	376.1	393.4	423.4	477.2	534.2	614.0	801.0	1044.4	1430.2
77.5°	204.3	208.9	209.9	212.9	236.8	288.2	381.7	516.9	662.8	756.8	914.8
80°	88.4	97.6	104.7	100.1	98.6	109.3	136.7	203.8	399.5	634.3	752.7
82.5°	47.8	51.8	58.0	58.4	61.5	65.0	70.6	83.9	117.9	237.8	518.9
85°	24.9	25.9	34.6	39.7	42.2	44.2	45.2	50.3	58.0	73.7	129.1
87.5°	3.5	5.1	6.1	8.2	9.1	9.7	11.2	14.2	16.8	20.3	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0
2.5°	852.3	851.3	848.3	846.2	844.2	842.2	839.6	837.6	834.1	831.5	828.4
5°	883.9	877.7	873.7	868.1	867.1	860.5	853.9	850.8	844.7	839.6	833.5
7.5°	915.8	908.8	902.2	897.5	895.0	885.9	879.2	871.6	864.5	857.9	850.8
10°	953.5	946.4	939.2	936.2	931.6	923.0	917.4	907.7	900.6	892.5	882.8
12.5°	992.6	987.5	982.4	978.4	976.3	972.3	964.1	956.0	946.4	938.2	927.1
15°	1027.1	1023.6	1021.6	1020.5	1020.5	1018.0	1010.4	1002.8	992.6	983.5	971.3
17.5°	1051.6	1050.1	1051.6	1053.1	1055.1	1053.1	1051.6	1042.9	1036.3	1025.2	1012.9
20°	1065.8	1068.8	1076.5	1081.6	1086.1	1089.7	1091.2	1084.1	1075.4	1067.3	1059.2
22.5°	1081.0	1089.7	1102.9	1110.5	1118.2	1130.8	1133.9	1128.8	1122.2	1117.1	1108.5
25°	1106.5	1119.2	1142.0	1154.2	1164.9	1183.7	1186.3	1187.3	1185.7	1181.7	1171.0
27.5°	1146.1	1171.0	1201.5	1217.2	1228.9	1253.3	1263.0	1263.0	1258.9	1263.5	1263.5
30°	1215.2	1248.2	1287.9	1297.0	1315.3	1336.7	1352.5	1354.5	1355.0	1364.6	1378.9
32.5°	1321.4	1352.9	1397.2	1407.4	1423.1	1443.4	1461.2	1459.2	1463.8	1484.6	1503.4
35°	1475.9	1508.0	1537.0	1550.6	1557.8	1576.1	1582.7	1593.8	1607.6	1633.5	1631.0
37.5°	1704.7	1733.1	1737.2	1745.8	1737.2	1740.7	1745.8	1759.0	1795.6	1819.0	1781.4
40°	1980.1	2027.4	2022.8	2012.6	1993.3	1967.4	1976.6	1996.9	2036.5	2016.2	1915.1
42.5°	2239.9	2288.6	2279.5	2267.8	2225.1	2215.4	2214.4	2231.2	2252.5	2194.6	2019.8
45°	2495.5	2545.3	2529.5	2522.9	2494.4	2473.6	2490.9	2491.9	2486.3	2362.3	2111.3
47.5°	2759.3	2805.0	2794.9	2800.4	2771.0	2757.2	2758.7	2751.7	2699.3	2504.6	2182.4
50°	2972.2	3033.7	3039.8	3027.1	3011.3	2990.5	3043.9	3024.5	2908.2	2642.9	2251.0
52.5°	3137.9	3220.7	3252.2	3244.1	3231.4	3233.9	3334.1	3355.9	3163.3	2817.2	2326.7
55°	3334.1	3464.7	3516.1	3546.5	3533.3	3584.2	3813.4	3824.5	3518.1	3044.9	2425.3
57.5°	3617.2	3804.2	3966.4	4009.6	4051.2	4216.4	4588.4	4475.1	3978.5	3389.5	2550.4
60°	4047.7	4457.3	4720.6	4858.8	4956.4	5187.2	5540.9	5253.7	4552.4	3799.6	2707.4
62.5°	4650.4	5249.2	5689.3	5828.0	5868.2	6000.8	6257.0	5707.6	4864.9	3983.6	2721.1
65°	5099.2	5817.4	6344.4	6415.6	6367.8	6370.3	6437.5	5683.7	4748.5	3823.0	2485.3
67°	5069.8	5873.8	6413.5	6507.1	6441.0	6354.1	6249.4	5360.0	4374.5	3486.5	2176.3
67.5°	5024.5	5819.4	6383.6	6482.2	6421.7	6322.6	6169.6	5234.4	4258.1	3381.8	2113.3
70°	4343.5	5132.8	5892.6	6031.3	6056.8	5966.3	5536.8	4413.6	3457.1	2751.1	1641.1
72.5°	3380.8	4083.8	4835.5	4955.9	5053.5	4792.7	4029.9	3048.5	2519.9	1982.6	1188.3
75°	2232.2	2947.3	3326.5	3344.3	3219.7	2736.9	1969.0	1526.8	1405.3	1165.4	735.4
77.5°	1194.4	1733.1	1743.8	1614.7	1555.7	1159.8	470.6	259.7	289.2	328.3	292.7
80°	890.9	1103.9	1279.3	1375.3	1403.8	994.6	243.4	137.8	120.5	109.8	108.2
82.5°	803.5	1066.3	1195.4	1247.8	1234.5	818.3	136.7	92.5	76.7	83.3	95.0
85°	315.1	569.2	748.6	724.7	608.9	304.9	74.7	49.8	49.8	72.2	93.5
87.5°	64.6	116.9	158.6	151.4	136.2	59.0	36.6	30.0	30.5	58.4	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0	831.0
2.5°	825.4	822.4	820.3	818.3	816.2	815.2	813.7	813.7	810.7	809.6	808.6
5°	829.0	823.9	820.3	815.8	812.2	809.1	805.1	804.1	800.5	797.9	796.9
7.5°	844.2	836.6	829.0	823.4	818.3	811.7	807.1	803.0	799.4	796.9	793.9
10°	873.2	865.0	854.3	844.2	837.6	827.4	820.3	813.2	809.1	806.1	802.0
12.5°	915.8	904.1	891.5	879.2	868.1	854.9	847.7	839.1	834.1	831.5	828.4
15°	959.6	946.9	931.1	919.4	906.7	896.5	889.9	882.3	878.2	875.2	873.2
17.5°	1004.3	989.6	978.4	966.7	960.6	953.0	944.3	934.7	923.0	915.8	906.2
20°	1050.1	1038.8	1032.2	1025.6	1018.5	1007.9	990.6	970.7	948.9	928.1	908.2
22.5°	1103.4	1096.8	1095.8	1089.7	1075.0	1049.5	1017.5	980.4	943.3	908.8	881.8
25°	1178.6	1178.6	1173.5	1148.6	1114.1	1068.4	1014.5	961.1	911.8	864.5	829.0
27.5°	1273.1	1269.6	1244.7	1193.3	1131.4	1060.2	988.0	920.5	857.4	805.6	759.8
30°	1377.4	1352.5	1299.1	1218.2	1125.2	1033.8	945.4	867.1	792.8	729.4	675.5
32.5°	1485.6	1425.1	1329.1	1218.2	1103.9	994.1	892.0	795.9	711.1	639.9	575.8
35°	1583.7	1473.4	1336.2	1198.4	1062.2	935.7	817.3	708.5	606.8	530.1	460.0
37.5°	1672.6	1505.4	1328.6	1159.8	1001.8	853.3	714.6	594.7	479.8	405.6	345.6
40°	1730.6	1512.0	1297.0	1099.3	915.4	742.0	588.5	454.4	363.4	295.8	255.7
42.5°	1766.6	1499.3	1246.2	1016.5	799.0	602.3	441.7	325.8	258.2	220.6	205.3
45°	1787.0	1466.3	1171.0	903.2	658.2	457.9	313.6	235.3	198.7	185.5	180.4
47.5°	1786.0	1412.9	1077.0	772.0	502.7	319.2	222.1	183.5	173.3	169.3	168.2
50°	1775.3	1347.4	966.7	629.7	362.9	222.6	175.9	164.7	162.1	159.6	158.6
52.5°	1760.6	1266.1	844.7	491.0	257.7	177.9	159.6	156.5	154.5	152.0	151.0
55°	1733.1	1165.9	712.6	369.5	201.8	160.6	154.0	153.0	150.4	146.9	144.8
57.5°	1699.6	1064.3	586.0	288.7	178.4	156.5	153.0	151.4	147.9	143.8	139.7
60°	1687.4	980.4	486.9	243.4	172.8	158.0	155.5	153.5	148.4	142.3	137.8
62.5°	1611.1	885.9	415.7	225.7	175.9	164.7	163.7	160.6	153.0	145.9	138.8
65°	1414.0	749.2	352.2	213.5	182.0	175.9	176.9	172.3	164.7	155.0	142.3
67°	1195.9	610.9	293.3	201.8	186.5	187.6	191.1	187.6	177.9	164.2	146.9
67.5°	1138.0	575.8	278.5	198.2	187.6	190.6	194.6	192.1	182.5	166.7	148.9
70°	845.7	405.6	207.9	179.4	187.6	199.7	208.9	211.4	200.8	178.9	153.0
72.5°	595.7	261.7	159.6	155.5	170.3	186.5	203.8	212.5	200.2	176.3	147.4
75°	357.8	163.7	129.6	132.1	143.3	160.1	173.8	177.4	162.1	146.9	127.6
77.5°	165.7	108.8	101.6	105.2	115.9	123.5	123.5	116.4	104.7	95.6	91.5
80°	97.6	88.9	88.4	95.0	102.2	96.5	87.9	78.2	72.2	69.1	67.6
82.5°	91.5	95.0	101.2	102.7	97.1	83.3	72.7	63.0	60.0	58.4	56.9
85°	107.8	115.4	105.2	97.1	85.9	70.1	56.9	48.8	47.3	45.7	43.7
87.5°	99.6	95.0	82.9	71.2	59.0	42.7	31.0	28.0	30.0	29.5	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158436

CATALOG NUMBER: VST-F03-LED-E-U-SL3-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	831.0	831.0	831.0	831.0	831.0
2.5°	809.1	809.1	807.1	806.1	808.6
5°	794.9	795.4	793.9	793.4	793.9
7.5°	791.8	791.3	790.3	789.3	790.3
10°	801.0	800.5	799.0	800.0	798.5
12.5°	828.4	831.5	831.0	832.0	834.1
15°	873.2	872.6	871.1	872.2	873.7
17.5°	898.6	894.5	890.9	889.4	889.4
20°	892.5	880.8	874.7	871.1	870.1
22.5°	856.4	839.6	826.9	823.9	821.3
25°	797.5	776.6	760.3	756.8	750.2
27.5°	728.8	700.9	681.5	677.5	673.9
30°	638.9	606.8	584.5	570.2	574.8
32.5°	529.1	498.6	472.7	449.8	446.2
35°	408.6	375.1	352.2	342.1	335.5
37.5°	304.9	277.0	261.7	252.1	252.6
40°	233.3	218.5	210.4	203.8	204.3
42.5°	194.6	188.0	186.0	182.9	181.4
45°	176.3	174.3	174.8	171.8	170.8
47.5°	166.2	164.7	165.2	163.1	162.7
50°	158.0	157.0	157.6	156.1	155.5
52.5°	149.9	150.4	149.9	148.9	148.9
55°	142.8	142.3	143.3	141.8	141.8
57.5°	137.2	136.7	136.7	136.2	136.2
60°	134.2	132.1	131.6	131.6	132.1
62.5°	132.7	129.1	128.6	128.6	129.1
65°	133.1	127.6	125.5	125.0	124.5
67°	133.7	125.5	121.5	119.5	118.9
67.5°	134.2	124.5	119.9	117.9	116.9
70°	131.1	117.4	110.8	107.2	106.2
72.5°	123.5	108.8	100.6	96.1	95.0
75°	109.8	98.6	91.5	86.4	84.4
77.5°	84.9	79.8	77.3	74.2	73.2
80°	66.1	63.5	62.5	60.5	60.0
82.5°	54.9	52.3	50.8	48.3	46.7
85°	42.7	39.7	38.6	36.6	35.6
87.5°	28.0	26.4	25.9	23.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)