

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: P158435

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158435
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7471.5 lumens
Efficiency: N/A
Efficacy: 95.4 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

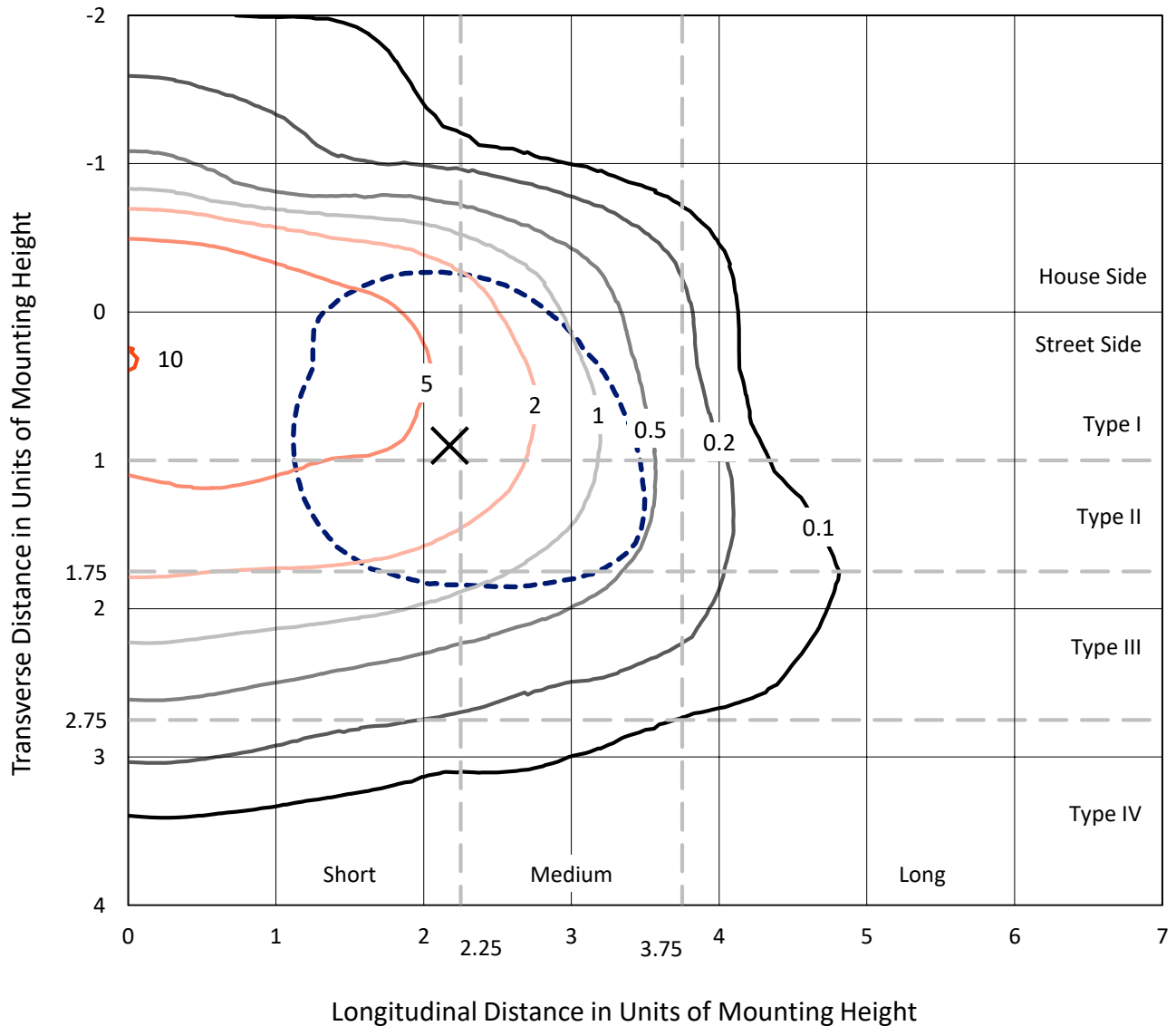
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

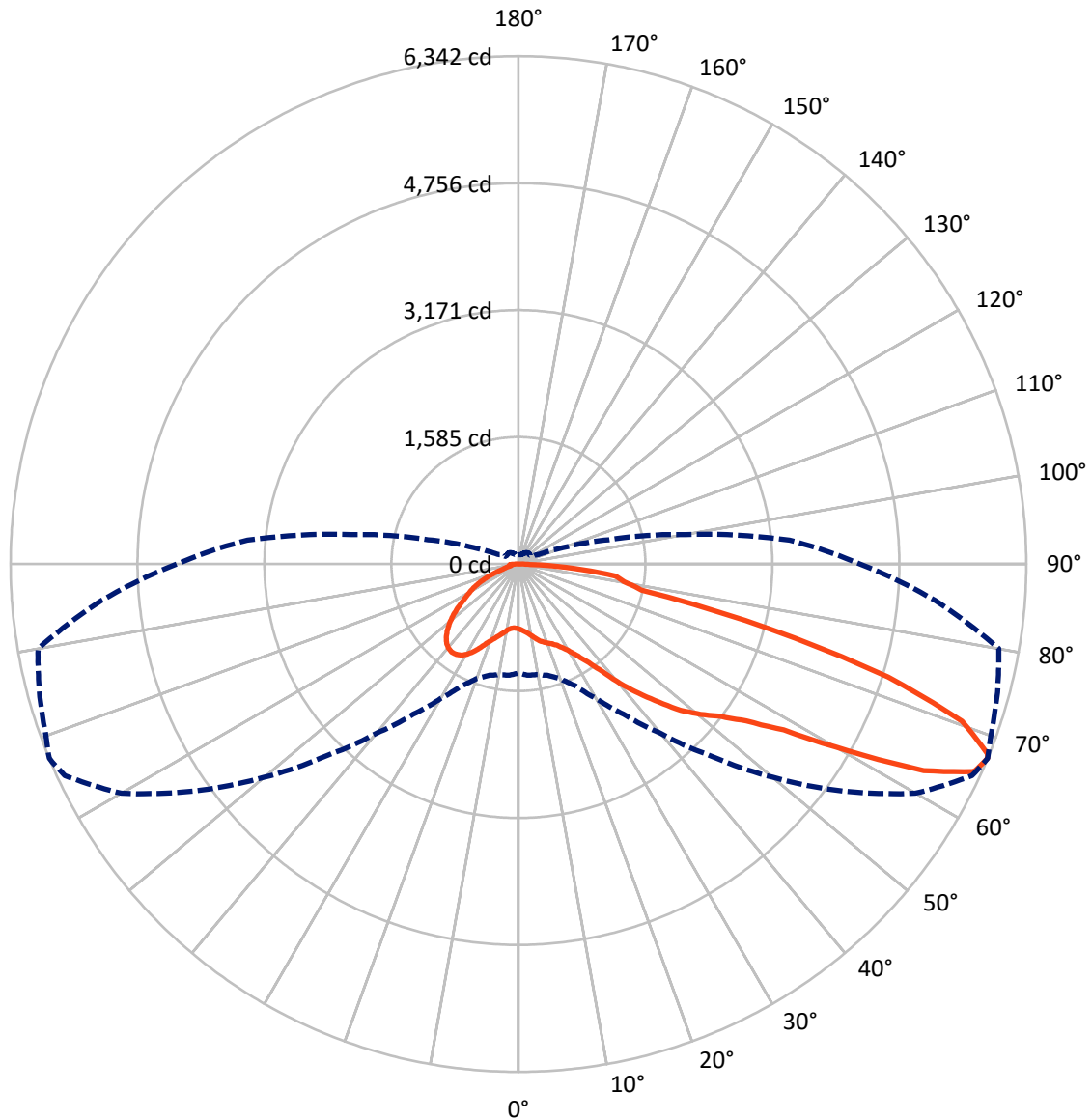


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Semi-Cutoff

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

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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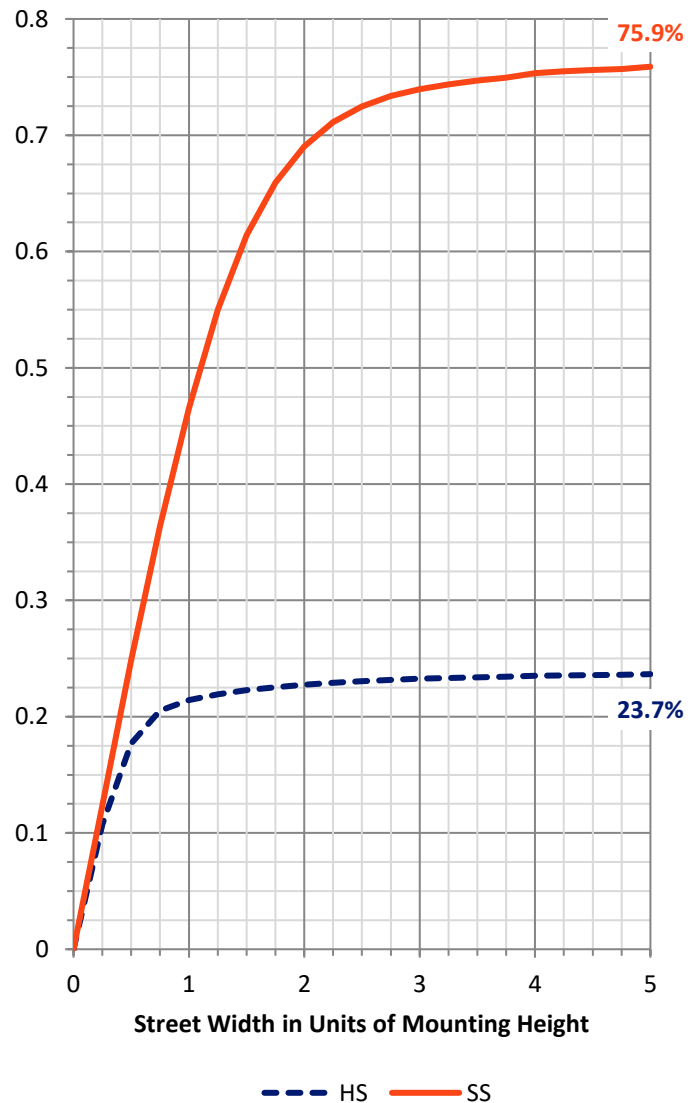
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.4	0.0	1792.4
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	5679.1	0.0	5679.1
	% Fixture	76.0	0.0	76.0
Total	Lumens	7471.5	0.0	7471.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.1
10°-20°	274.2	3.7
20°-30°	489.6	6.6
30°-40°	717.5	9.6
40°-50°	1108.6	14.8
50°-60°	1614.4	21.6
60°-70°	2103.0	28.1
70°-80°	941.4	12.6
80°-90°	142.3	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°	7471.5	100.0
0°-180°	7471.5	100.0



REPORT NUMBER: P158435

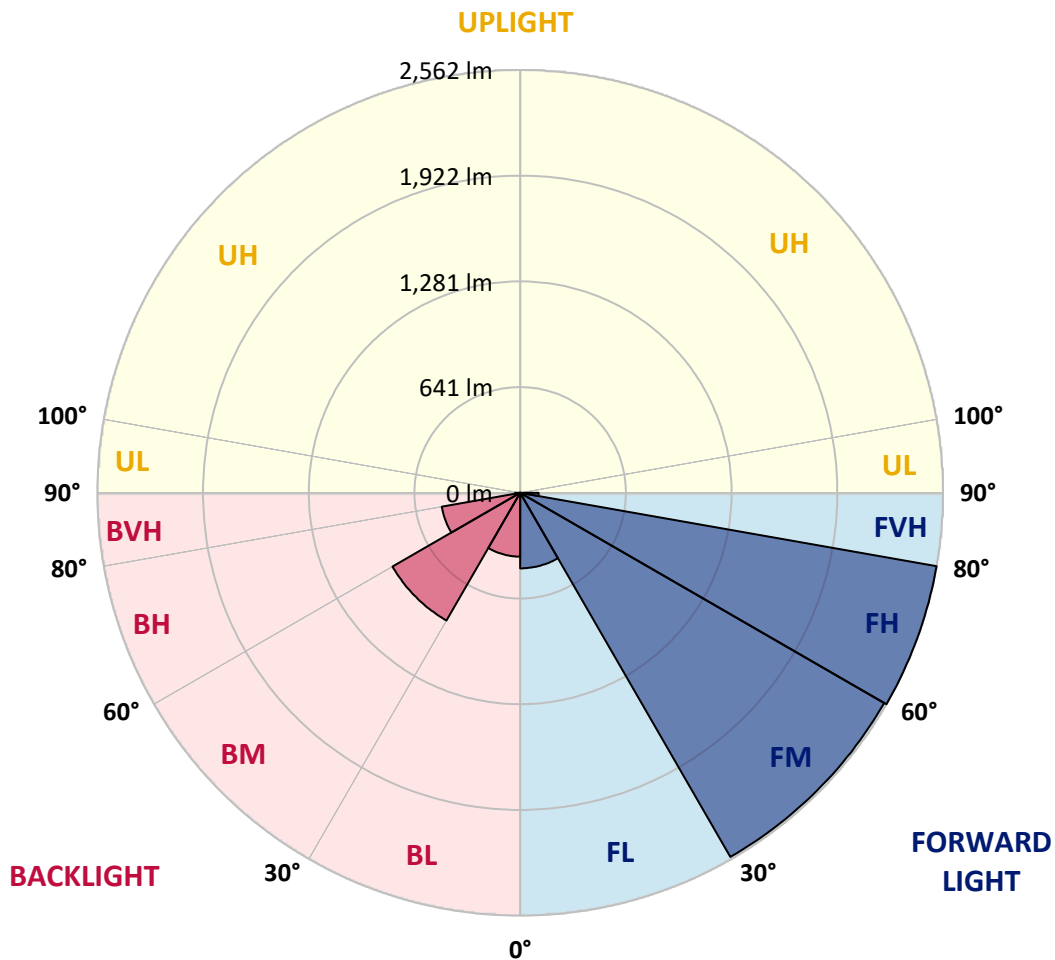
CATALOG NUMBER: VST-F03-LED-E-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	457.8	6.1			
FM	(30°-60°)	2547.4	34.1			
FH	(60°-80°)	2562.1	34.3			G2/5000
FVH	(80°-90°)	111.8	1.5			G2/225
BL	(0°-30°)	386.5	5.2	B1/500		
BM	(30°-60°)	893.1	12.0	B1/1000		
BH	(60°-80°)	482.2	6.5	B1/500		G1/500
BVH	(80°-90°)	30.6	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: P158435

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	841.6	843.5	844.0	843.5	844.0	842.0	841.6	838.6	840.1	836.1	835.1
5°	887.1	888.6	889.6	885.6	886.6	884.6	882.2	879.2	875.2	869.8	866.3
7.5°	931.7	934.1	933.7	932.2	928.7	926.8	921.8	917.3	910.4	904.0	899.5
10°	991.6	991.1	991.1	982.7	977.8	973.3	964.4	957.4	950.5	941.1	936.1
12.5°	1061.0	1057.5	1056.0	1050.1	1039.7	1031.8	1018.9	1005.5	993.1	983.2	975.3
15°	1127.8	1127.8	1123.9	1114.4	1104.5	1094.2	1075.8	1056.5	1036.2	1020.4	1012.4
17.5°	1188.8	1183.3	1179.8	1167.5	1157.0	1140.2	1119.9	1099.1	1073.8	1051.6	1036.2
20°	1233.4	1228.9	1221.4	1206.1	1188.2	1168.4	1144.7	1120.4	1093.1	1068.9	1051.6
22.5°	1259.1	1253.6	1242.2	1222.0	1197.7	1169.9	1142.2	1119.4	1094.6	1076.3	1061.9
25°	1272.5	1267.0	1251.7	1224.9	1192.2	1155.5	1123.9	1101.6	1087.2	1082.8	1080.8
27.5°	1271.9	1267.5	1251.2	1220.5	1178.3	1136.3	1102.1	1083.2	1081.7	1099.1	1112.0
30°	1259.1	1256.1	1241.3	1210.6	1166.5	1122.4	1090.7	1080.8	1096.1	1132.8	1164.5
32.5°	1246.2	1244.7	1234.3	1206.6	1168.9	1131.8	1110.0	1111.0	1142.7	1199.2	1250.2
35°	1247.7	1249.7	1248.2	1233.4	1209.5	1190.2	1179.8	1201.6	1251.2	1319.5	1387.9
37.5°	1260.6	1268.0	1277.4	1278.9	1279.4	1276.4	1298.2	1344.3	1416.6	1505.8	1612.7
40°	1288.8	1297.2	1324.5	1348.3	1379.0	1415.6	1459.7	1523.6	1613.2	1723.2	1854.5
42.5°	1376.5	1388.3	1422.1	1466.2	1522.6	1580.0	1645.9	1733.1	1843.1	1959.0	2096.6
45°	1490.9	1515.7	1552.8	1601.8	1686.5	1767.3	1852.5	1950.1	2066.9	2212.1	2350.7
47.5°	1633.6	1658.3	1712.3	1764.8	1864.9	1965.4	2058.5	2160.5	2287.4	2435.9	2589.5
50°	1758.4	1786.6	1834.6	1905.5	2021.4	2144.7	2247.7	2358.2	2464.7	2621.2	2776.3
52.5°	1856.5	1876.7	1922.8	1987.7	2117.0	2252.2	2382.5	2505.3	2631.6	2788.1	2931.8
55°	1868.8	1887.7	1932.7	2007.0	2138.3	2288.3	2438.5	2584.1	2762.9	2933.8	3124.0
57.5°	1815.3	1830.7	1876.3	1942.6	2070.4	2241.3	2431.0	2617.7	2846.6	3077.4	3309.7
60°	1739.5	1754.9	1790.6	1843.6	1959.0	2143.2	2364.7	2620.2	2924.3	3257.7	3599.5
62.5°	1656.4	1669.7	1698.4	1736.1	1837.6	2007.5	2261.1	2603.9	2987.8	3437.0	3964.0
65°	1516.1	1548.4	1560.7	1599.4	1700.9	1861.4	2119.4	2493.4	2962.0	3516.7	4192.9
67°	1361.1	1393.8	1400.3	1439.4	1520.6	1674.7	1937.2	2288.9	2757.9	3379.0	4142.3
67.5°	1311.6	1339.3	1349.2	1388.3	1465.1	1610.3	1859.4	2215.0	2695.5	3303.8	4081.4
70°	964.4	995.1	1006.0	1022.3	1077.3	1198.1	1363.1	1671.7	2149.2	2696.0	3442.9
72.5°	516.1	540.9	551.3	575.6	603.8	669.7	796.0	1017.4	1319.0	1804.0	2449.3
75°	349.2	359.1	366.5	383.4	412.6	465.1	520.6	598.3	780.6	1017.9	1393.8
77.5°	199.1	203.6	204.5	207.5	230.8	280.9	372.0	503.8	645.9	737.5	891.5
80°	86.2	95.1	102.1	97.6	96.1	106.5	133.3	198.6	389.3	618.2	733.6
82.5°	46.6	50.5	56.5	56.9	59.9	63.4	68.8	81.7	114.9	231.8	505.7
85°	24.3	25.3	33.7	38.6	41.1	43.1	44.1	49.0	56.5	71.8	125.8
87.5°	3.5	5.0	5.9	7.9	8.9	9.4	10.9	13.9	16.3	19.8	33.7
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: P158435
 CATALOG NUMBER: VST-F03-LED-E-U-SL3

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	830.6	829.7	826.7	824.7	822.7	820.7	818.3	816.3	812.8	810.4	807.4
5°	861.4	855.4	851.5	846.0	845.0	838.6	832.1	829.1	823.2	818.3	812.3
7.5°	892.6	885.6	879.2	874.7	872.2	863.3	856.9	849.5	842.5	836.1	829.1
10°	929.2	922.3	915.4	912.4	907.9	899.5	894.1	884.6	877.7	869.8	860.3
12.5°	967.4	962.4	957.4	953.5	951.5	947.5	939.6	931.7	922.3	914.3	903.5
15°	1001.0	997.6	995.6	994.6	994.6	992.1	984.7	977.3	967.4	958.4	946.6
17.5°	1024.8	1023.3	1024.8	1026.3	1028.3	1026.3	1024.8	1016.4	1009.9	999.1	987.2
20°	1038.7	1041.7	1049.1	1054.0	1058.5	1061.9	1063.4	1056.5	1048.1	1040.2	1032.2
22.5°	1053.5	1061.9	1074.8	1082.3	1089.7	1102.1	1105.0	1100.1	1093.7	1088.7	1080.3
25°	1078.3	1090.7	1113.0	1124.9	1135.3	1153.6	1156.1	1157.0	1155.5	1151.6	1141.2
27.5°	1117.0	1141.2	1170.9	1186.3	1197.7	1221.4	1230.8	1230.8	1226.9	1231.4	1231.4
30°	1184.3	1216.5	1255.1	1264.0	1281.9	1302.7	1318.0	1320.0	1320.5	1329.9	1343.8
32.5°	1287.8	1318.5	1361.6	1371.5	1386.9	1406.7	1424.0	1422.1	1426.5	1446.8	1465.1
35°	1438.4	1469.6	1497.8	1511.2	1518.1	1536.0	1542.4	1553.3	1566.7	1591.9	1589.5
37.5°	1661.3	1689.0	1693.0	1701.4	1693.0	1696.4	1701.4	1714.3	1750.0	1772.8	1736.1
40°	1929.7	1975.8	1971.4	1961.5	1942.6	1917.4	1926.3	1946.1	1984.7	1964.9	1866.4
42.5°	2182.9	2230.4	2221.5	2210.1	2168.5	2159.1	2158.1	2174.5	2195.2	2138.8	1968.4
45°	2432.0	2480.5	2465.2	2458.7	2431.0	2410.7	2427.5	2428.5	2423.1	2302.2	2057.5
47.5°	2689.1	2733.7	2723.8	2729.2	2700.5	2687.1	2688.5	2681.6	2630.6	2440.9	2126.9
50°	2896.6	2956.6	2962.5	2950.1	2934.7	2914.4	2966.5	2947.6	2834.2	2575.6	2193.7
52.5°	3058.1	3138.8	3169.5	3161.6	3149.2	3151.7	3249.2	3270.5	3082.9	2745.5	2267.6
55°	3249.2	3376.6	3426.6	3456.3	3443.4	3493.0	3716.3	3727.3	3428.6	2967.4	2363.6
57.5°	3525.2	3707.5	3865.4	3907.6	3948.2	4109.2	4471.7	4361.2	3877.3	3303.2	2485.5
60°	3944.7	4343.9	4600.5	4735.2	4830.3	5055.2	5399.9	5120.1	4436.5	3703.0	2638.6
62.5°	4532.2	5115.6	5544.5	5679.8	5718.9	5848.2	6097.8	5562.4	4741.1	3882.3	2651.9
65°	4969.5	5669.4	6183.0	6252.4	6205.8	6208.3	6273.7	5539.1	4627.7	3725.8	2422.1
67°	4940.8	5724.4	6250.4	6341.5	6277.1	6192.4	6090.4	5223.6	4263.2	3397.9	2120.9
67.5°	4896.7	5671.4	6221.2	6317.2	6258.3	6161.7	6012.6	5101.3	4149.7	3295.8	2059.5
70°	4232.9	5002.2	5742.7	5877.9	5902.7	5814.5	5396.0	4301.3	3369.1	2681.2	1599.4
72.5°	3294.8	3979.9	4712.4	4829.8	4924.9	4670.8	3927.4	2970.9	2455.8	1932.2	1158.1
75°	2175.4	2872.3	3241.9	3259.2	3137.8	2667.3	1918.9	1487.9	1369.6	1135.7	716.7
77.5°	1164.0	1689.0	1699.4	1573.6	1516.1	1130.3	458.6	253.1	281.8	320.0	285.3
80°	868.3	1075.8	1246.7	1340.3	1368.1	969.4	237.2	134.2	117.4	107.0	105.5
82.5°	783.1	1039.2	1165.0	1216.0	1203.1	797.5	133.3	90.1	74.8	81.2	92.6
85°	307.1	554.8	729.6	706.3	593.4	297.2	72.8	48.5	48.5	70.3	91.1
87.5°	62.9	113.9	154.6	147.6	132.7	57.5	35.6	29.2	29.7	56.9	86.2
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: P158435

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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
2.5°	804.4	801.4	799.4	797.5	795.5	794.5	793.0	793.0	790.0	789.1	788.0
5°	807.8	802.9	799.4	795.0	791.5	788.5	784.6	783.6	780.1	777.7	776.6
7.5°	822.7	815.3	807.8	802.4	797.5	791.0	786.5	782.6	779.2	776.6	773.7
10°	851.0	843.0	832.6	822.7	816.3	806.4	799.4	792.5	788.5	785.6	781.6
12.5°	892.6	881.2	868.8	856.9	846.0	833.1	826.2	817.7	812.8	810.4	807.4
15°	935.2	922.8	907.4	896.0	883.6	873.7	867.3	859.9	855.9	853.0	851.0
17.5°	978.7	964.4	953.5	942.1	936.1	928.7	920.3	910.9	899.5	892.6	883.1
20°	1023.3	1012.4	1006.0	999.5	992.6	982.2	965.3	946.1	924.8	904.4	885.1
22.5°	1075.3	1068.9	1067.9	1061.9	1047.6	1022.8	991.6	955.4	919.3	885.6	859.4
25°	1148.6	1148.6	1143.7	1119.4	1085.8	1041.2	988.6	936.7	888.6	842.5	807.8
27.5°	1240.7	1237.3	1213.0	1163.0	1102.6	1033.2	962.9	897.0	835.6	785.1	740.5
30°	1342.3	1318.0	1266.0	1187.3	1096.6	1007.5	921.3	845.0	772.7	710.8	658.3
32.5°	1447.8	1388.9	1295.2	1187.3	1075.8	968.8	869.3	775.7	692.9	623.6	561.2
35°	1543.4	1435.9	1302.2	1168.0	1035.2	911.9	796.4	690.5	591.4	516.6	448.3
37.5°	1630.1	1467.1	1294.7	1130.3	976.3	831.7	696.4	579.5	467.6	395.3	336.8
40°	1686.5	1473.5	1264.0	1071.4	892.1	723.2	573.6	442.8	354.2	288.3	249.1
42.5°	1721.7	1461.2	1214.5	990.6	778.6	586.9	430.4	317.5	251.6	215.0	200.1
45°	1741.5	1429.0	1141.2	880.2	641.5	446.3	305.6	229.3	193.7	180.8	175.9
47.5°	1740.5	1377.0	1049.6	752.4	489.8	311.0	216.5	178.8	168.9	164.9	163.9
50°	1730.2	1313.1	942.1	613.7	353.6	217.0	171.4	160.5	158.0	155.5	154.6
52.5°	1715.8	1233.8	823.2	478.5	251.1	173.3	155.5	152.6	150.6	148.1	147.1
55°	1689.0	1136.3	694.4	360.1	196.6	156.5	150.1	149.1	146.6	143.2	141.2
57.5°	1656.4	1037.2	571.1	281.3	173.9	152.6	149.1	147.6	144.1	140.2	136.2
60°	1644.4	955.4	474.5	237.2	168.4	154.0	151.6	149.6	144.7	138.7	134.2
62.5°	1570.1	863.3	405.2	219.9	171.4	160.5	159.5	156.5	149.1	142.1	135.2
65°	1378.0	730.1	343.3	208.0	177.3	171.4	172.4	167.9	160.5	151.1	138.7
67°	1165.5	595.4	285.8	196.6	181.8	182.8	186.2	182.8	173.3	160.0	143.2
67.5°	1109.0	561.2	271.4	193.2	182.8	185.8	189.7	187.2	177.8	162.5	145.1
70°	824.2	395.3	202.6	174.8	182.8	194.6	203.6	206.0	195.7	174.4	149.1
72.5°	580.5	255.1	155.5	151.6	166.0	181.8	198.6	207.1	195.2	171.9	143.6
75°	348.7	159.5	126.3	128.8	139.7	156.0	169.4	172.9	158.0	143.2	124.3
77.5°	161.5	106.0	99.1	102.5	112.9	120.4	120.4	113.4	102.1	93.1	89.2
80°	95.1	86.7	86.2	92.6	99.5	94.1	85.7	76.3	70.3	67.4	65.9
82.5°	89.2	92.6	98.6	100.1	94.6	81.2	70.9	61.4	58.4	56.9	55.5
85°	105.0	112.4	102.5	94.6	83.7	68.3	55.5	47.6	46.1	44.6	42.6
87.5°	97.1	92.6	80.8	69.4	57.5	41.6	30.2	27.2	29.2	28.7	27.7
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: P158435

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

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	809.8	809.8	809.8	809.8	809.8
2.5°	788.5	788.5	786.5	785.6	788.0
5°	774.7	775.1	773.7	773.2	773.7
7.5°	771.7	771.2	770.2	769.2	770.2
10°	780.6	780.1	778.6	779.6	778.1
12.5°	807.4	810.4	809.8	810.8	812.8
15°	851.0	850.4	848.9	850.0	851.5
17.5°	875.7	871.7	868.3	866.8	866.8
20°	869.8	858.4	852.4	848.9	848.0
22.5°	834.6	818.3	805.9	802.9	800.4
25°	777.1	756.8	741.0	737.5	731.1
27.5°	710.3	683.0	664.2	660.2	656.8
30°	622.6	591.4	569.6	555.7	560.2
32.5°	515.6	485.9	460.6	438.4	434.9
35°	398.2	365.5	343.3	333.4	326.9
37.5°	297.2	269.9	255.1	245.7	246.2
40°	227.3	213.0	205.1	198.6	199.1
42.5°	189.7	183.2	181.3	178.3	176.8
45°	171.9	169.9	170.4	167.4	166.4
47.5°	161.9	160.5	161.0	159.0	158.5
50°	154.0	153.1	153.5	152.0	151.6
52.5°	146.1	146.6	146.1	145.1	145.1
55°	139.2	138.7	139.7	138.2	138.2
57.5°	133.7	133.3	133.3	132.7	132.7
60°	130.7	128.8	128.3	128.3	128.8
62.5°	129.3	125.8	125.3	125.3	125.8
65°	129.8	124.3	122.3	121.9	121.4
67°	130.3	122.3	118.4	116.4	115.9
67.5°	130.7	121.4	116.9	114.9	113.9
70°	127.8	114.4	108.0	104.5	103.5
72.5°	120.4	106.0	98.1	93.6	92.6
75°	107.0	96.1	89.2	84.2	82.2
77.5°	82.7	77.8	75.3	72.3	71.3
80°	64.4	61.9	60.9	58.9	58.4
82.5°	53.5	51.0	49.6	47.0	45.5
85°	41.6	38.6	37.6	35.6	34.7
87.5°	27.2	25.7	25.3	22.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)