

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: P158864

Luminaire Tested: **VST-F02-LED-E-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158864
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F02-LED-E-U-SLL-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.4 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

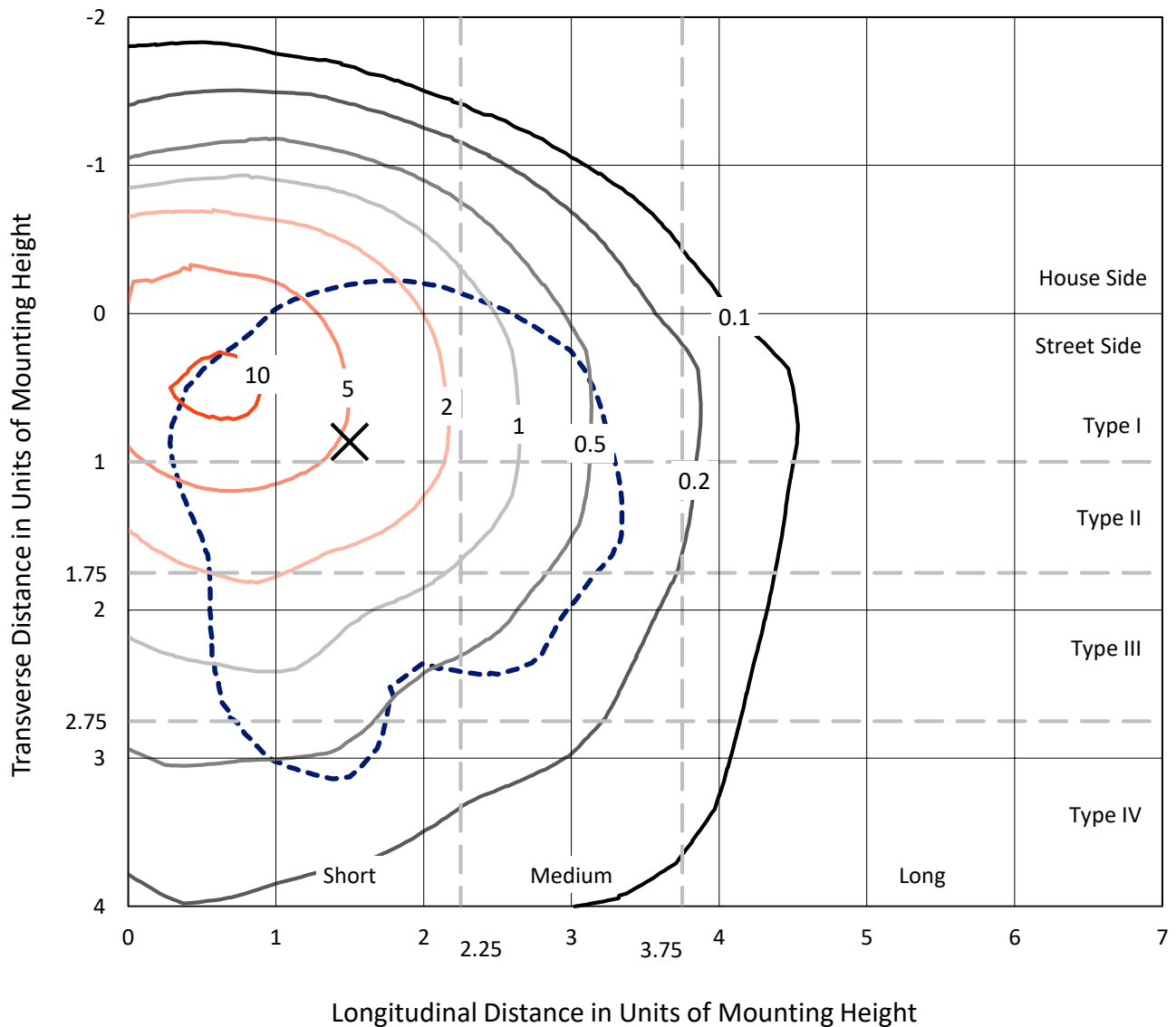
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P158864
 CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

Iso-Footcandle Lines of Horizontal Illumination

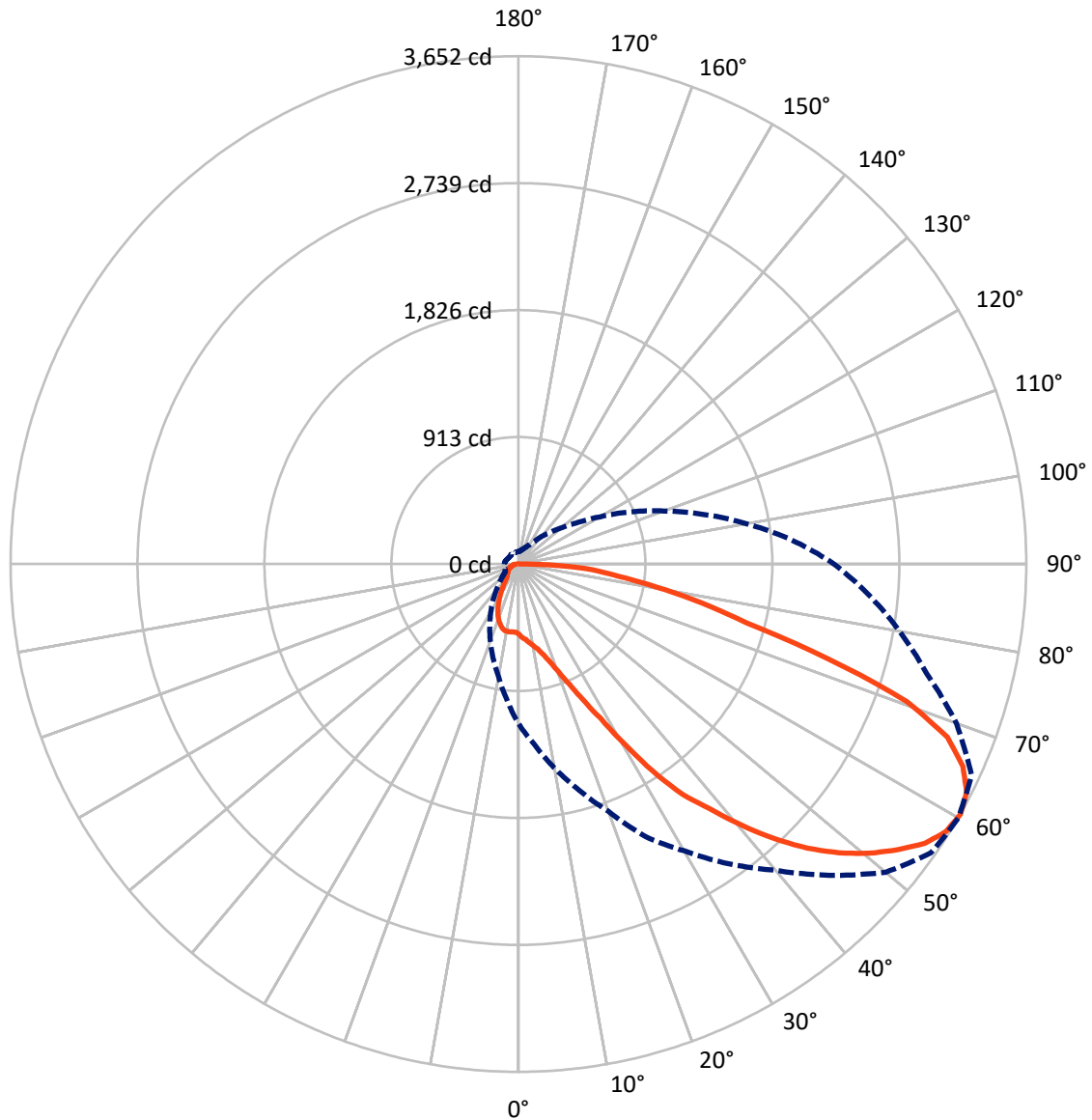
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158864
CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P158864

CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	912.5	0.0	912.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	3139.9	0.0	3139.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	4052.4	0.0	4052.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	1.2
10°-20°	160.5	4.0
20°-30°	304.6	7.5
30°-40°	479.7	11.8
40°-50°	669.6	16.5
50°-60°	828.1	20.4
60°-70°	858.4	21.2
70°-80°	540.1	13.3
80°-90°	161.5	4.0
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°	4052.4	100.0
0°-180°	4052.4	100.0



REPORT NUMBER: P158864

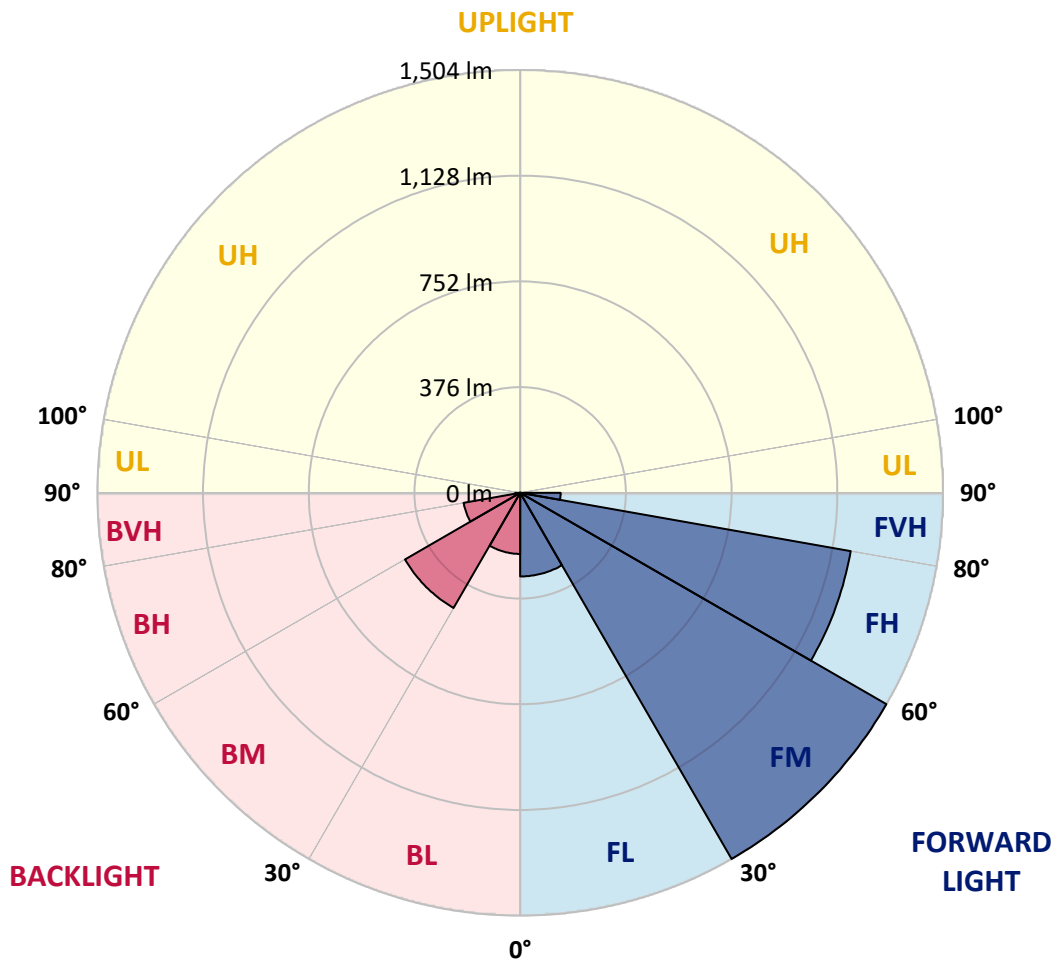
CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	297.5	7.3			
FM	(30°-60°)	1504.3	37.1			
FH	(60°-80°)	1194.2	29.5			G1/1800
FVH	(80°-90°)	143.9	3.6			G2/225
BL	(0°-30°)	217.4	5.4	B1/500		
BM	(30°-60°)	473.2	11.7	B1/1000		
BH	(60°-80°)	204.4	5.0	B1/500		G1/500
BVH	(80°-90°)	17.6	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 IV Short





REPORT NUMBER: P158864

CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	533.8	533.2	533.2	533.2	532.9	532.3	533.2	532.9	531.4	530.5	531.4
5°	540.8	541.1	542.0	542.3	542.3	543.2	545.6	545.9	545.6	546.2	547.7
7.5°	547.4	548.9	549.8	551.3	553.1	554.6	558.8	563.1	565.8	567.9	568.5
10°	558.2	560.6	563.4	567.3	571.5	579.1	582.7	586.9	589.6	593.8	594.8
12.5°	586.0	589.0	590.8	596.9	602.3	609.5	614.6	615.8	622.2	625.8	630.1
15°	632.8	637.3	643.6	647.2	653.3	659.6	664.1	670.1	671.0	675.9	679.2
17.5°	690.1	696.4	709.4	718.1	725.9	732.3	741.3	748.3	749.8	755.2	748.3
20°	770.3	785.6	787.8	805.3	812.2	824.9	842.9	846.3	855.0	846.3	841.1
22.5°	878.9	903.0	909.6	926.5	935.0	954.2	959.7	977.5	983.5	976.9	963.0
25°	1003.7	1041.1	1060.4	1086.4	1090.6	1130.1	1134.3	1155.1	1144.0	1128.0	1128.3
27.5°	1095.7	1159.3	1209.1	1253.5	1284.5	1329.1	1363.8	1373.5	1362.9	1342.1	1334.9
30°	1148.2	1220.3	1291.7	1352.9	1425.4	1493.5	1564.4	1599.7	1605.7	1616.6	1572.8
32.5°	1181.9	1274.6	1359.6	1435.3	1509.5	1597.3	1692.2	1783.0	1859.3	1916.9	1889.8
35°	1210.3	1324.6	1433.5	1525.2	1612.9	1708.6	1804.4	1911.5	2037.9	2111.8	2127.2
37.5°	1221.8	1361.4	1494.7	1612.3	1735.7	1843.4	1938.7	2034.0	2166.7	2298.5	2339.2
40°	1219.7	1379.5	1531.2	1679.0	1830.1	1964.6	2076.2	2189.0	2344.3	2498.5	2564.8
42.5°	1205.5	1382.2	1554.4	1723.3	1895.5	2074.4	2217.1	2347.0	2496.0	2693.6	2787.4
45°	1187.7	1372.9	1559.3	1745.9	1944.1	2151.0	2331.4	2492.1	2666.7	2861.9	2975.3
47.5°	1163.6	1358.1	1553.2	1753.8	1965.8	2200.1	2412.2	2605.5	2797.6	3022.3	3166.1
50°	1137.3	1337.0	1540.9	1748.0	1971.2	2227.0	2458.3	2678.5	2902.9	3145.4	3327.2
52.5°	1118.9	1314.4	1529.7	1736.3	1965.8	2235.1	2475.2	2717.7	2967.4	3218.0	3435.2
55°	1096.3	1284.2	1499.8	1708.9	1945.9	2230.6	2473.4	2731.3	2985.2	3246.1	3494.0
57.5°	1097.8	1270.3	1474.5	1676.0	1905.2	2188.7	2439.3	2717.7	2957.2	3228.0	3496.1
60°	1145.5	1300.2	1487.8	1682.6	1893.1	2162.2	2381.4	2630.2	2874.8	3165.5	3447.2
62.5°	1243.8	1385.5	1555.9	1748.9	1961.0	2215.3	2355.2	2484.8	2702.0	3050.6	3364.0
65°	1361.1	1489.0	1636.7	1820.5	2058.1	2301.5	2340.4	2366.6	2476.4	2827.2	3207.8
67.5°	1478.5	1592.8	1708.9	1861.1	2113.3	2326.2	2280.1	2217.7	2276.8	2567.5	2900.8
70°	1520.6	1672.4	1748.6	1853.3	2071.4	2268.6	2182.7	2025.5	2046.1	2310.2	2553.9
72.5°	1457.3	1673.6	1698.9	1737.8	1884.7	2070.2	1979.4	1777.3	1773.1	1974.8	2171.8
75°	1222.4	1526.7	1526.4	1511.9	1545.1	1650.7	1603.6	1481.8	1533.3	1692.2	1757.1
77.5°	871.3	1191.3	1206.4	1109.0	1106.6	1154.2	1182.5	1324.3	1511.3	1600.6	1580.0
80°	547.4	803.8	868.6	748.3	722.6	790.2	965.4	1171.7	1401.8	1482.1	1413.0
82.5°	329.6	517.9	656.0	587.8	581.8	704.8	898.4	978.7	1047.7	1133.1	1017.6
85°	223.8	345.0	448.8	462.4	515.1	642.4	726.5	691.0	692.8	670.4	610.7
87.5°	42.8	94.1	153.8	187.6	208.1	279.6	304.0	275.3	290.8	212.6	232.6
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: P158864

CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	529.9	529.9	529.9	528.4	528.7	526.6	525.7	525.7	524.8	524.8	524.5
5°	546.5	544.7	545.6	545.3	545.3	542.3	540.8	540.8	536.8	537.1	535.9
7.5°	571.2	570.9	571.8	570.0	567.6	565.2	562.8	561.6	556.1	552.8	550.7
10°	599.3	599.0	599.9	599.6	595.4	590.8	584.2	579.4	572.8	567.6	562.5
12.5°	630.1	629.8	629.2	626.4	621.9	614.6	606.2	598.1	588.1	581.5	574.0
15°	678.0	677.1	673.4	669.5	664.7	653.6	638.8	627.0	613.7	602.3	589.9
17.5°	748.9	741.3	740.7	732.0	719.0	704.2	690.4	670.7	651.8	634.6	617.7
20°	846.6	829.1	824.3	814.3	797.1	781.7	751.6	725.3	699.4	675.9	654.5
22.5°	953.0	940.4	928.6	912.4	888.8	866.5	828.2	795.3	762.1	732.0	708.2
25°	1101.7	1079.7	1058.6	1032.7	1000.1	973.6	929.8	896.6	853.2	825.8	791.4
27.5°	1293.8	1256.2	1220.6	1198.3	1141.0	1102.3	1046.5	1003.7	951.2	914.2	873.4
30°	1543.9	1500.1	1447.4	1370.2	1302.0	1225.4	1156.3	1101.4	1045.6	993.8	946.7
32.5°	1853.9	1776.7	1693.1	1570.7	1458.8	1349.6	1257.7	1190.1	1133.1	1068.5	1002.2
35°	2116.0	2036.4	1917.8	1762.3	1624.1	1499.2	1389.2	1296.8	1222.4	1140.7	1052.9
37.5°	2322.9	2232.1	2120.8	1955.6	1809.6	1667.5	1552.0	1434.4	1336.7	1224.2	1113.2
40°	2560.0	2468.9	2346.4	2175.1	2002.3	1848.2	1712.8	1591.2	1471.2	1334.0	1191.3
42.5°	2766.5	2700.8	2576.8	2399.8	2208.3	2036.7	1888.6	1749.5	1592.8	1439.2	1270.3
45°	2981.9	2914.9	2797.3	2612.2	2408.6	2217.4	2040.3	1890.7	1705.6	1522.7	1329.4
47.5°	3172.2	3103.4	2984.6	2800.6	2584.4	2382.9	2188.1	2007.1	1792.1	1582.2	1368.1
50°	3353.8	3269.6	3160.7	2977.4	2746.3	2531.0	2319.6	2087.3	1859.3	1623.8	1394.3
52.5°	3520.6	3413.5	3310.3	3121.6	2871.8	2646.8	2411.0	2155.5	1900.7	1656.7	1412.1
55°	3615.2	3546.2	3422.8	3237.4	2961.1	2726.5	2468.9	2203.5	1941.7	1679.9	1419.6
57.5°	3644.5	3627.6	3524.2	3304.3	3013.6	2770.2	2508.1	2241.5	1969.1	1686.5	1409.0
60°	3621.3	3652.0	3595.3	3351.4	3037.4	2783.2	2527.4	2268.6	1973.9	1665.4	1377.1
62.5°	3546.8	3616.7	3609.5	3367.0	3025.0	2766.8	2525.3	2254.7	1928.7	1599.7	1305.3
65°	3424.3	3512.4	3543.5	3308.8	2955.4	2707.4	2471.6	2167.6	1802.9	1471.2	1185.0
67.5°	3193.9	3327.2	3357.4	3118.2	2773.2	2543.0	2316.9	1986.6	1570.1	1272.4	997.1
70°	2732.2	2965.3	3006.0	2755.1	2452.0	2249.9	2058.1	1699.8	1307.4	1020.6	765.2
72.5°	2181.2	2327.7	2411.0	2238.2	2012.6	1866.0	1720.6	1304.1	986.5	753.1	526.6
75°	1705.3	1696.5	1771.0	1656.1	1523.3	1454.9	1345.7	909.9	660.8	498.8	333.2
77.5°	1457.9	1345.7	1261.0	1180.1	1101.4	1079.7	975.1	564.6	408.4	298.9	199.4
80°	1211.8	1007.0	852.3	738.6	710.6	753.4	638.2	332.9	241.9	171.6	125.2
82.5°	865.9	724.4	589.6	517.6	469.6	537.7	376.4	184.9	131.2	102.8	82.9
85°	561.3	536.5	530.8	507.3	449.1	424.0	285.9	159.2	98.3	64.0	51.6
87.5°	215.9	276.8	319.4	342.3	370.1	329.6	149.0	54.9	54.0	33.2	25.0
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: P158864

CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	522.4	521.2	520.9	520.0	519.4	519.4	517.9	490.4	490.1	490.1	489.8
5°	533.5	532.0	530.5	530.2	529.0	529.0	527.5	500.0	500.0	500.0	499.4
7.5°	548.6	545.6	543.8	542.9	541.1	542.0	543.2	515.4	515.8	515.4	516.1
10°	559.4	557.6	555.5	554.9	553.7	554.6	556.4	529.0	529.9	530.2	530.8
12.5°	570.0	567.0	564.3	563.4	562.8	565.2	567.3	540.8	541.7	542.6	542.6
15°	583.0	577.9	574.3	572.2	570.9	573.4	576.4	550.1	550.4	551.3	551.0
17.5°	605.0	597.5	589.0	587.5	583.6	584.5	585.1	555.8	554.6	552.5	548.9
20°	639.1	627.6	616.1	611.3	603.5	600.2	593.5	556.1	548.6	542.3	536.8
22.5°	688.0	671.0	658.7	650.5	634.6	623.4	605.3	554.6	540.5	529.6	521.2
25°	767.0	746.8	727.7	707.2	682.2	659.9	633.4	567.9	545.9	527.2	510.9
27.5°	843.8	811.9	782.6	751.9	716.6	683.1	645.7	572.2	547.1	523.0	496.4
30°	901.5	855.0	810.7	765.8	719.6	676.2	634.0	557.6	527.8	500.6	472.6
32.5°	936.5	876.1	818.5	762.7	708.5	659.6	612.2	532.6	499.7	467.8	437.9
35°	969.7	894.8	823.4	757.6	695.5	641.2	590.2	503.3	464.2	430.1	392.4
37.5°	1010.6	914.5	826.4	748.3	676.5	614.3	558.2	466.6	427.4	385.4	349.9
40°	1059.8	934.7	823.4	729.5	646.9	579.1	519.7	428.0	384.2	343.5	308.5
42.5°	1106.6	952.4	815.5	704.5	614.6	542.3	484.4	393.6	349.9	308.2	273.5
45°	1141.3	967.5	811.6	687.1	589.9	517.3	453.3	365.8	319.7	277.8	242.5
47.5°	1165.4	976.6	809.8	677.4	572.8	491.3	425.0	338.1	289.6	247.3	212.9
50°	1178.0	976.3	805.3	666.8	547.4	460.3	395.7	310.0	261.8	220.4	189.1
52.5°	1181.3	970.9	795.6	647.5	516.7	429.2	364.3	280.8	237.4	197.8	166.2
55°	1173.8	957.6	775.4	615.2	483.8	396.3	335.7	257.9	213.5	176.2	151.4
57.5°	1152.4	934.0	737.4	570.9	449.1	365.8	302.8	230.1	187.6	156.2	135.7
60°	1112.6	884.3	678.0	518.5	405.1	319.4	257.6	193.9	160.1	136.6	120.1
62.5°	1039.0	806.2	594.4	446.0	341.7	259.1	205.7	154.7	129.4	114.0	103.7
65°	920.5	688.6	497.6	351.4	259.7	188.5	152.9	116.4	98.0	88.7	85.7
67.5°	751.3	531.7	361.9	244.0	175.9	132.1	106.4	85.1	76.3	72.7	71.5
70°	546.2	362.2	234.4	154.1	116.1	92.3	80.5	68.5	63.7	62.8	62.8
72.5°	342.9	220.1	143.6	105.5	88.1	74.8	68.8	60.3	58.5	57.9	57.0
75°	201.2	133.6	101.6	86.6	75.4	67.0	61.8	54.9	53.7	53.4	52.5
77.5°	128.2	96.2	82.0	73.9	68.2	60.6	56.1	48.8	48.5	48.2	47.9
80°	92.0	79.9	71.8	65.5	59.7	52.8	50.0	44.3	43.7	43.4	44.0
82.5°	69.7	66.1	62.8	57.9	50.0	44.9	42.8	38.9	39.2	37.7	37.4
85°	47.9	47.3	47.0	44.9	39.2	34.7	33.2	31.1	32.6	31.1	29.3
87.5°	23.5	23.2	21.4	25.3	23.5	18.7	16.9	18.7	20.8	20.2	18.7
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: P158864

CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	488.6	487.4	488.3	487.7	487.7	487.4	488.0	487.1	486.5	487.1	487.4
5°	498.2	496.7	497.0	494.9	495.8	493.7	494.3	492.8	491.3	490.7	490.7
7.5°	514.5	513.0	511.2	510.9	507.6	506.4	504.3	503.0	502.1	500.0	498.8
10°	529.3	526.9	524.8	524.5	521.2	518.2	515.4	513.0	511.5	508.5	507.0
12.5°	541.4	539.0	535.6	533.8	530.5	526.9	525.1	521.5	519.4	516.1	513.3
15°	548.3	544.1	539.3	535.9	531.1	527.2	524.5	521.8	519.7	515.4	511.5
17.5°	545.0	538.0	531.4	525.4	518.8	515.1	511.2	507.9	507.3	502.4	496.4
20°	531.1	523.0	514.2	506.1	497.3	492.2	487.4	482.3	480.7	475.0	467.2
22.5°	514.2	504.9	494.9	485.0	473.8	466.6	459.4	453.0	447.9	439.4	428.3
25°	497.0	483.2	468.7	456.0	443.0	434.0	426.5	419.5	413.5	399.9	388.4
27.5°	474.4	452.7	437.9	423.4	407.8	396.0	387.5	377.9	371.3	355.6	343.5
30°	445.4	423.7	402.7	388.1	372.5	359.8	349.0	335.1	325.4	314.0	302.8
32.5°	409.0	387.2	365.8	349.6	336.6	320.9	307.3	294.1	282.9	271.7	263.0
35°	364.6	343.5	323.3	307.0	292.6	280.2	267.2	255.8	243.1	231.0	225.9
37.5°	317.9	295.3	272.9	258.8	247.3	238.6	226.5	217.1	205.7	198.5	192.4
40°	277.1	253.0	231.9	219.8	210.8	200.9	190.9	183.7	175.5	168.3	163.7
42.5°	242.8	220.1	202.1	191.8	181.0	170.1	162.5	156.5	151.4	146.0	140.5
45°	211.1	189.4	174.3	161.6	152.6	143.9	138.7	136.0	133.0	129.7	126.1
47.5°	184.6	165.9	151.1	139.3	130.0	124.0	121.6	120.7	119.5	116.7	114.9
50°	164.4	149.0	133.9	123.4	115.5	112.5	109.8	108.9	107.3	106.4	105.2
52.5°	147.5	131.2	118.5	108.9	104.0	102.8	101.6	100.4	100.1	99.5	98.9
55°	133.6	119.5	107.7	100.4	98.0	97.1	96.8	95.6	95.3	95.3	94.4
57.5°	121.3	109.2	98.6	94.1	92.6	91.7	91.1	90.5	90.5	91.1	90.8
60°	108.6	98.3	92.0	89.6	88.7	87.2	85.7	85.1	85.4	86.9	86.9
62.5°	96.2	88.7	84.7	83.8	82.9	81.7	79.9	79.3	79.9	81.7	82.6
65°	82.6	79.3	78.1	77.5	76.9	76.0	74.8	74.2	74.5	75.4	76.6
67.5°	70.3	70.0	70.0	70.3	70.0	69.7	69.1	68.2	67.9	67.9	68.5
70°	62.8	62.8	63.7	63.7	63.4	63.4	62.5	61.5	60.9	60.3	60.6
72.5°	57.0	57.0	57.3	57.6	57.3	57.3	56.1	55.5	54.0	53.7	53.1
75°	52.2	51.6	51.6	51.3	50.9	51.3	50.0	48.5	47.9	47.6	47.0
77.5°	47.3	46.1	45.5	44.9	45.2	44.9	44.0	43.1	42.2	41.9	41.6
80°	41.9	40.1	39.2	37.7	38.6	38.9	38.3	37.4	37.1	36.8	36.5
82.5°	34.7	32.9	31.7	30.8	30.2	30.8	31.7	33.8	33.2	32.9	32.3
85°	27.1	24.1	22.6	22.9	21.4	21.7	24.4	25.6	25.6	26.2	25.6
87.5°	15.4	14.8	11.2	10.3	10.9	13.0	14.5	16.0	16.0	15.1	16.9
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: P158864

CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	487.4	488.0	488.3	489.5	490.1	490.4	490.7	491.3	491.6	491.3	492.8
5°	489.8	489.8	489.2	490.1	490.4	490.4	489.8	490.4	490.4	490.4	491.9
7.5°	496.1	494.3	493.4	492.2	491.3	490.1	488.6	488.6	488.3	488.6	489.5
10°	502.7	500.0	496.7	493.7	491.0	488.9	486.2	485.3	485.0	484.7	487.1
12.5°	507.9	503.0	497.9	492.8	487.4	483.8	479.2	476.5	476.2	476.2	479.2
15°	504.3	496.4	486.5	477.4	472.6	467.5	462.4	459.1	458.7	459.4	461.2
17.5°	486.2	473.5	464.8	456.0	449.7	445.4	442.1	441.5	442.7	441.5	443.9
20°	455.4	441.8	435.8	428.9	426.5	423.4	418.6	414.4	414.4	409.0	410.5
22.5°	415.6	408.1	400.2	394.8	393.0	387.8	382.7	377.0	376.4	369.8	368.9
25°	374.0	366.4	360.1	358.9	353.5	346.6	341.7	335.1	333.5	326.9	326.0
27.5°	331.4	325.4	319.1	315.5	312.5	304.9	300.7	292.9	289.9	282.6	281.7
30°	291.1	286.8	279.3	276.2	270.5	261.8	252.7	247.9	245.5	238.0	235.6
32.5°	253.0	246.4	240.7	237.1	229.8	219.8	211.7	204.8	200.3	191.2	188.8
35°	216.8	210.2	207.5	198.1	191.8	185.2	174.0	169.8	161.6	154.7	152.3
37.5°	184.9	178.6	174.9	167.1	160.7	154.1	147.5	142.1	138.1	136.6	136.6
40°	157.4	154.1	149.6	143.9	139.6	134.8	131.2	129.4	129.1	129.7	131.2
42.5°	137.8	134.2	131.2	128.2	125.2	124.6	123.7	124.9	126.4	127.9	129.4
45°	123.1	120.1	118.2	117.0	116.7	117.6	119.5	121.3	124.0	125.8	127.0
47.5°	112.5	110.1	109.5	109.2	110.7	113.4	115.8	118.5	120.7	122.5	123.7
50°	103.4	101.3	101.0	100.7	102.8	105.2	107.3	111.0	112.5	113.7	114.6
52.5°	97.1	95.3	94.4	94.7	96.8	98.9	101.9	104.6	106.7	107.7	108.6
55°	92.0	91.4	89.3	90.2	92.3	95.0	98.0	101.0	103.1	104.6	106.1
57.5°	88.1	86.6	85.1	86.6	88.7	91.4	95.0	97.7	100.4	102.5	104.0
60°	83.8	82.6	81.4	82.9	85.1	87.8	90.5	94.1	97.4	99.5	101.0
62.5°	80.2	79.3	78.1	78.4	79.3	81.1	82.6	86.0	89.0	91.7	93.5
65°	75.1	74.8	73.0	73.3	73.9	75.7	76.9	79.9	82.9	85.4	86.9
67.5°	67.6	67.0	67.0	67.9	68.2	69.1	70.0	73.0	75.4	77.2	79.0
70°	60.0	59.7	59.7	60.3	60.0	60.9	62.1	64.9	67.9	69.7	71.5
72.5°	52.8	52.8	52.5	53.1	53.1	53.4	54.9	57.3	60.0	61.5	62.8
75°	46.4	46.1	46.1	46.1	46.4	46.4	47.9	50.0	52.8	53.7	55.5
77.5°	40.7	40.7	40.7	40.7	41.0	40.7	41.6	43.1	44.0	45.5	45.5
80°	35.9	35.6	35.9	36.2	36.2	35.9	35.9	36.2	36.5	36.5	36.5
82.5°	31.7	30.8	31.4	32.9	32.9	32.9	32.6	30.5	29.0	29.0	29.6
85°	25.3	25.3	25.6	27.7	28.0	26.8	28.0	25.0	22.0	21.1	21.7
87.5°	15.7	12.4	15.1	17.2	17.2	16.3	18.1	16.9	14.2	11.5	10.9
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: P158864
 CATALOG NUMBER: VST-F02-LED-E-U-SLL-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	0°
2.5°	494.0	494.3	496.1	497.0	497.0	498.2	498.8	500.6	500.3	500.3	500.9	2.5°
5°	493.4	494.3	496.1	497.3	497.9	499.4	500.6	502.7	502.4	503.0	503.3	5°
7.5°	491.3	493.7	495.5	497.9	500.0	501.2	502.7	504.6	503.9	504.3	503.9	7.5°
10°	489.5	491.9	495.5	498.8	501.8	503.6	504.6	506.7	506.4	507.0	507.0	10°
12.5°	482.3	486.5	491.0	496.1	500.6	505.5	508.5	513.0	515.1	517.9	520.9	12.5°
15°	463.9	468.7	475.9	481.7	490.4	497.0	505.8	514.5	522.4	529.9	538.7	15°
17.5°	445.7	447.9	453.6	461.5	469.3	479.2	489.8	505.5	519.7	535.0	551.9	17.5°
20°	412.3	415.9	419.8	429.2	438.5	452.7	465.7	486.2	507.0	531.1	557.0	20°
22.5°	371.0	374.6	378.8	389.3	400.8	415.3	431.0	453.9	481.7	513.0	547.7	22.5°
25°	326.3	328.4	331.7	342.3	349.3	368.3	387.2	411.1	441.2	481.7	522.1	25°
27.5°	277.1	281.1	283.8	288.6	304.6	320.9	340.8	366.4	403.0	444.2	493.1	27.5°
30°	230.1	233.5	231.9	242.2	252.7	269.9	291.4	319.7	354.7	403.9	460.3	30°
32.5°	184.0	186.4	185.5	192.7	203.3	220.4	240.7	271.4	308.5	361.0	422.2	32.5°
35°	151.7	152.3	155.6	158.9	168.0	181.9	199.1	225.9	263.9	312.2	377.0	35°
37.5°	136.6	137.8	139.9	144.5	151.1	161.0	175.2	196.0	228.6	271.1	329.0	37.5°
40°	132.1	133.0	134.2	137.2	143.6	152.3	165.0	182.5	206.3	242.2	289.3	40°
42.5°	130.0	130.0	130.0	131.8	136.6	146.0	160.4	177.7	198.5	225.6	263.6	42.5°
45°	127.0	127.0	126.7	127.6	130.9	140.2	155.9	175.2	197.5	223.5	256.4	45°
47.5°	123.7	123.4	122.5	122.5	124.6	133.9	150.2	171.0	195.4	225.3	260.6	47.5°
50°	114.6	114.6	114.6	115.5	117.3	125.8	143.3	165.3	193.3	226.5	267.2	50°
52.5°	109.5	109.8	110.7	110.7	112.5	121.3	139.6	164.0	194.5	231.0	275.6	52.5°
55°	107.0	108.0	108.9	108.9	110.4	119.5	138.4	165.0	199.1	240.4	290.2	55°
57.5°	104.9	105.8	106.4	106.4	107.7	115.5	135.1	163.4	201.8	249.4	307.9	57.5°
60°	101.0	101.6	101.9	101.9	102.2	108.9	127.6	156.2	195.7	248.8	317.6	60°
62.5°	93.8	95.0	95.3	95.6	95.6	101.9	117.9	144.5	182.8	239.8	314.9	62.5°
65°	88.4	89.0	89.9	90.5	91.7	95.9	108.6	130.3	165.9	221.7	299.8	65°
67.5°	79.9	80.8	81.7	82.9	84.1	86.9	96.8	114.3	143.0	190.9	266.0	67.5°
70°	72.4	72.7	73.6	75.1	75.4	76.9	84.1	96.2	117.0	153.2	214.1	70°
72.5°	63.1	63.7	64.9	66.7	66.7	67.9	72.1	78.4	91.7	117.0	158.0	72.5°
75°	54.9	55.5	56.4	56.4	54.9	55.2	58.2	62.8	72.7	88.1	115.2	75°
77.5°	45.5	46.7	47.6	45.8	45.2	46.1	47.6	50.9	58.2	70.0	86.6	77.5°
80°	37.7	38.3	38.6	38.9	38.3	39.2	40.4	42.5	47.3	56.4	68.5	80°
82.5°	30.2	30.8	31.7	32.9	32.9	36.2	36.5	36.5	39.2	44.9	53.7	82.5°
85°	22.3	23.5	24.7	26.2	26.5	28.4	27.4	27.1	28.0	33.5	37.1	85°
87.5°	11.5	12.4	13.0	14.2	12.7	13.3	13.3	12.4	10.9	13.6	15.1	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158864

NUMBER: VST-F02-LED-E-U-SLL-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
503.9	503.9	503.9	503.9	503.9	503.9	503.9
501.5	500.9	501.5	501.5	502.4	501.8	533.8
503.9	503.3	503.9	504.6	505.5	505.5	540.8
504.3	504.3	503.6	505.2	506.4	507.6	547.4
507.9	507.9	508.5	508.8	511.5	514.5	558.2
522.7	524.2	526.9	527.8	532.6	535.9	586.0
545.3	553.7	559.1	561.0	565.2	571.5	632.8
568.2	582.4	597.2	606.2	611.6	619.2	690.1
585.4	611.9	637.3	659.9	672.8	687.7	770.3
586.9	629.2	671.9	713.9	748.6	776.0	878.9
572.5	627.9	687.1	751.3	811.0	860.5	1003.7
554.0	622.2	697.6	779.6	858.1	931.0	1095.7
530.8	612.5	699.4	791.7	883.7	971.5	1148.2
495.5	583.9	677.7	779.6	886.4	993.2	1181.9
450.3	540.5	636.7	752.8	873.7	1001.9	1210.3
404.2	493.1	596.6	716.9	853.5	1000.4	1221.8
355.3	443.6	549.5	678.6	826.1	986.5	1219.7
322.1	402.7	506.4	639.7	795.6	968.1	1205.5
302.8	373.4	472.3	604.1	767.9	946.1	1187.7
302.5	364.6	454.2	578.8	739.8	921.7	1163.6
313.1	370.1	452.1	567.9	724.4	903.9	1137.3
325.4	385.1	463.3	571.8	724.1	896.0	1118.9
345.0	410.8	487.7	588.7	732.0	894.8	1096.3
370.1	445.4	531.7	630.4	762.4	918.7	1097.8
395.7	486.2	589.3	701.5	822.5	974.2	1145.5
405.1	517.6	647.8	785.0	912.4	1057.4	1243.8
396.9	524.8	683.4	849.9	999.8	1154.8	1361.1
366.7	495.5	668.9	868.3	1050.2	1223.9	1478.5
301.9	422.8	603.2	827.0	1046.2	1238.0	1520.6
221.4	327.8	490.4	702.7	930.1	1149.4	1457.3
159.8	231.9	354.1	529.3	735.3	925.6	1222.4
114.6	160.7	229.8	347.8	500.9	644.5	871.3
82.3	109.2	143.3	208.7	305.2	395.7	547.4
60.6	74.8	94.1	129.7	179.8	230.4	329.6
41.3	44.0	56.7	76.6	117.9	169.5	223.8
15.7	17.8	20.8	31.4	52.8	60.6	42.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)