

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: P158208

Luminaire Tested: **VST-E03-LED-E-U-SL2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158208
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E03-LED-E-U-SL2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7618.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

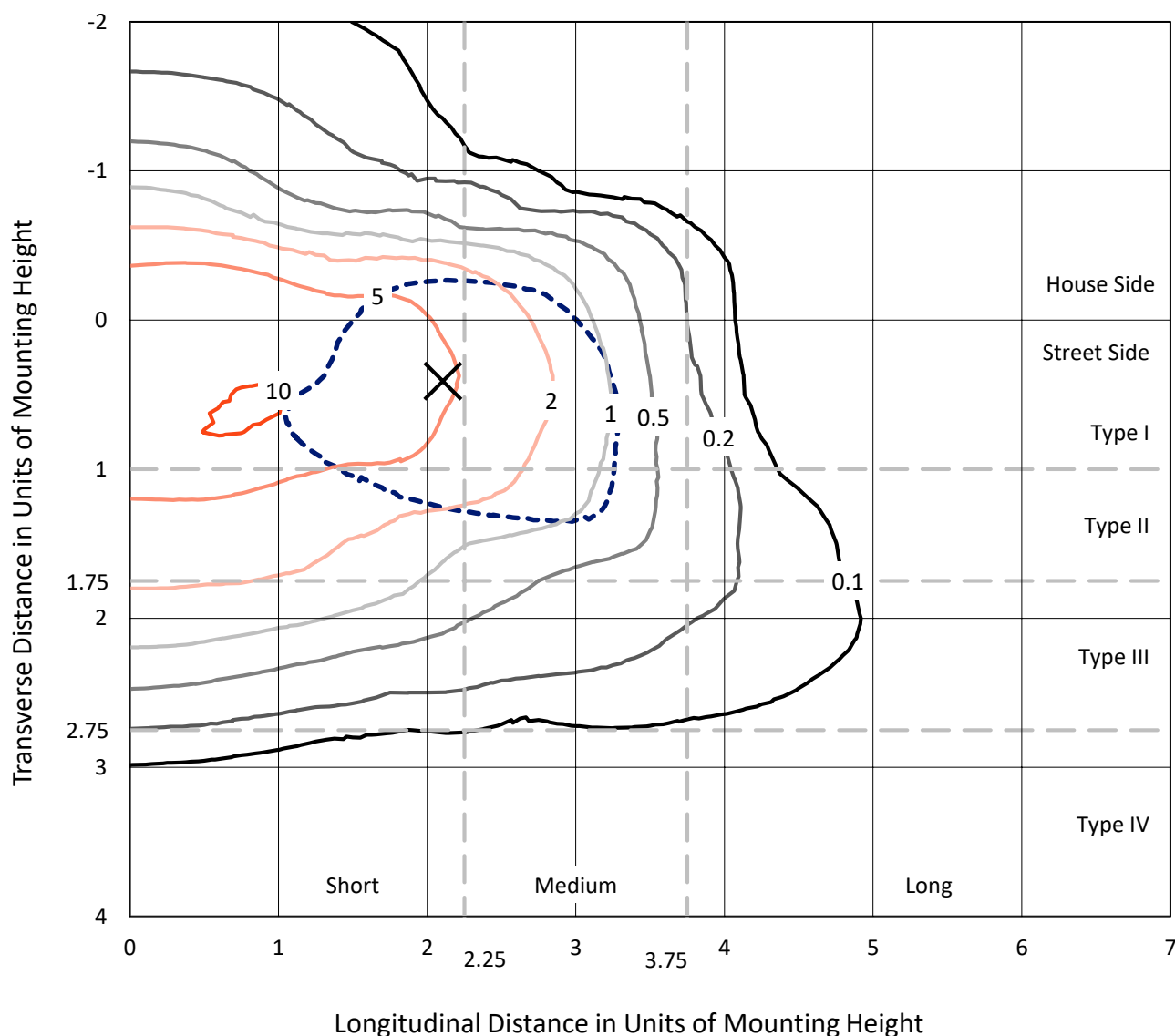


REPORT NUMBER: P158208

CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

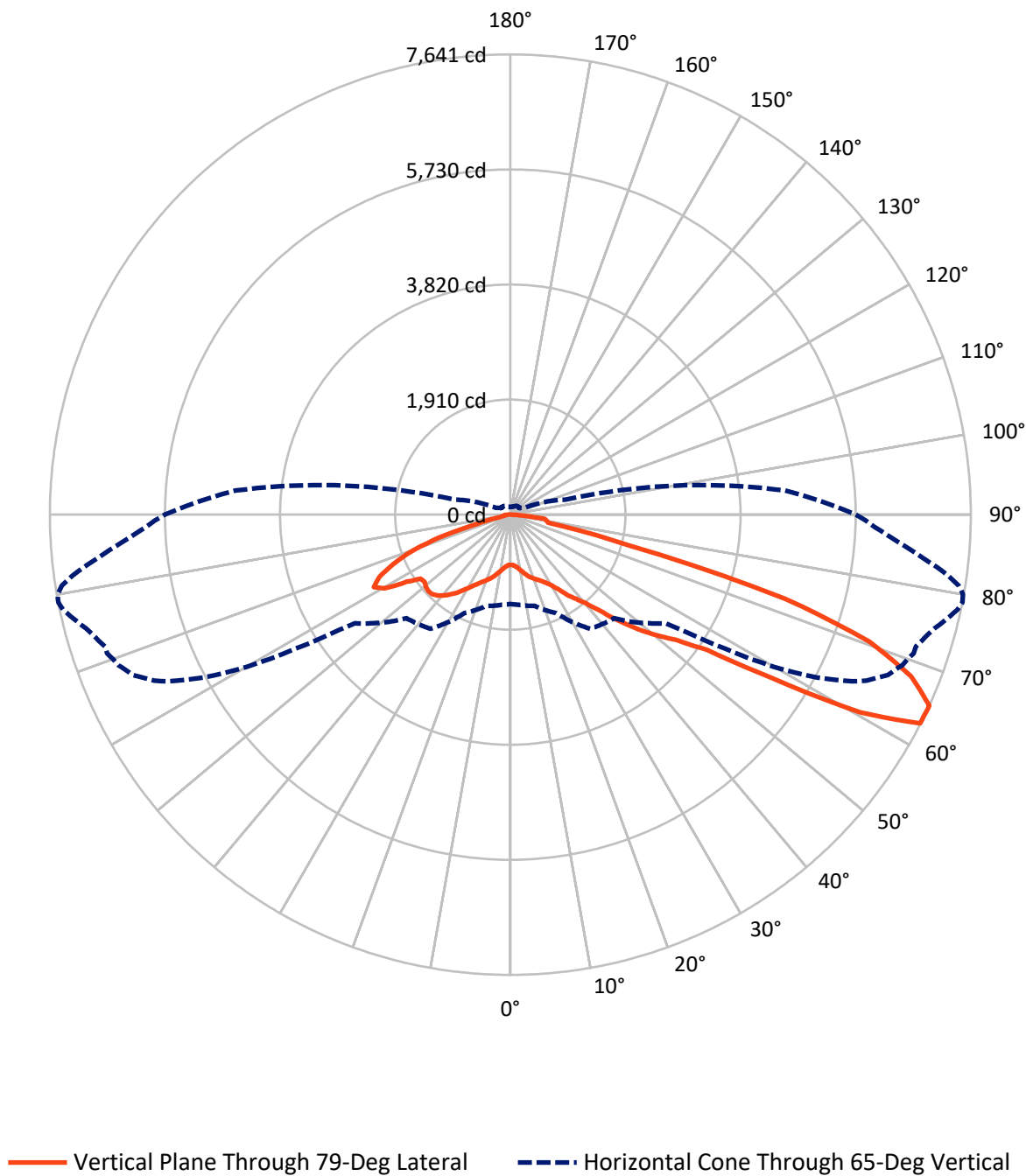


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P158208

CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P158208

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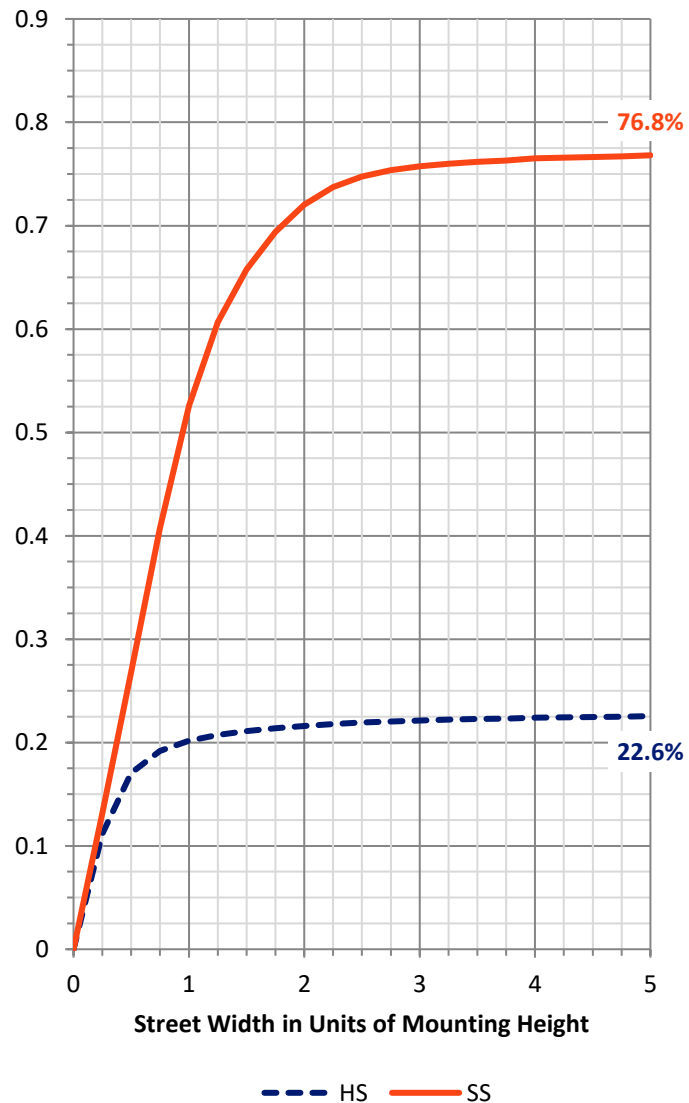
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1750.5	0.0	1750.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5867.6	0.0	5867.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	7618.1	0.0	7618.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.1
10°-20°	267.8	3.5
20°-30°	461.7	6.1
30°-40°	756.3	9.9
40°-50°	1266.5	16.6
50°-60°	1713.2	22.5
60°-70°	2109.8	27.7
70°-80°	816.7	10.7
80°-90°	143.6	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°	7618.1	100.0
0°-180°	7618.1	100.0

Coefficient of Utilization



REPORT NUMBER: P158208

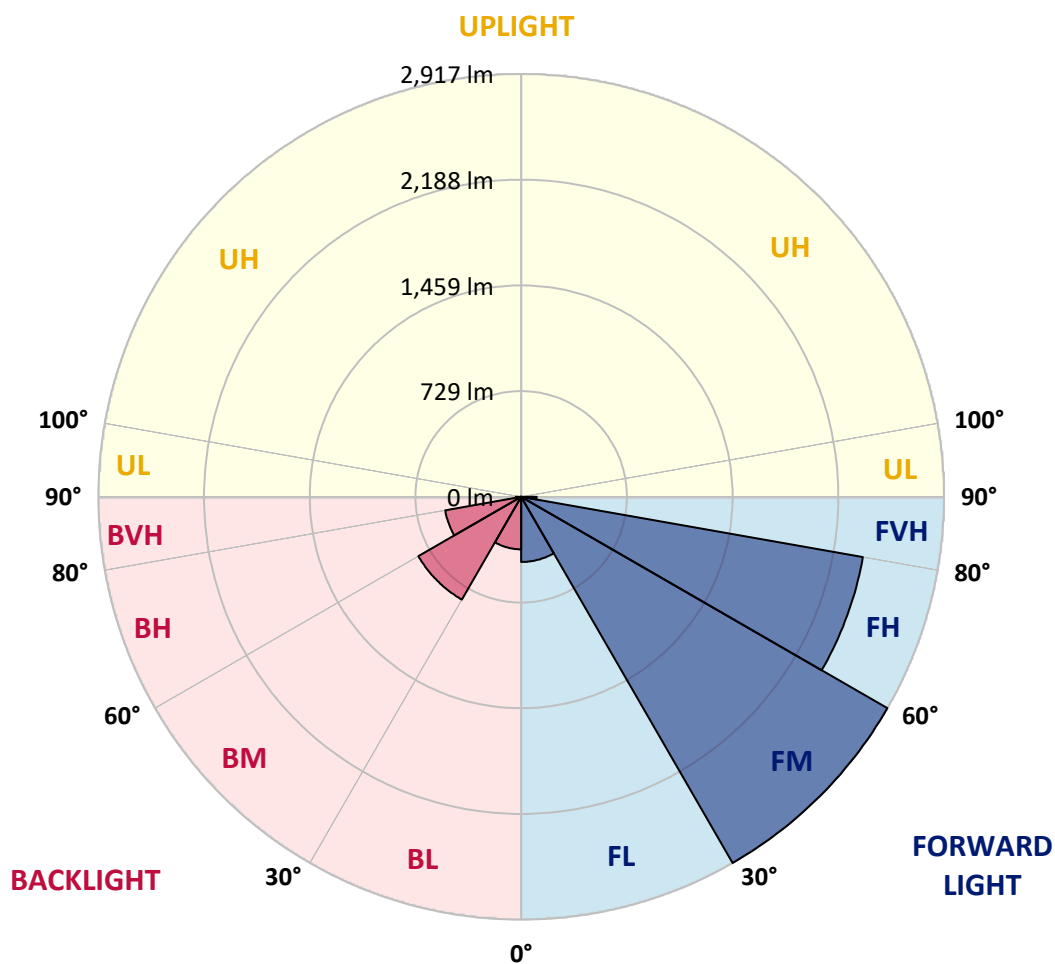
CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	449.8	5.9			
FM	(30°-60°)	2917.4	38.3			
FH	(60°-80°)	2393.9	31.4			G2/5000
FVH	(80°-90°)	106.6	1.4			G2/225
BL	(0°-30°)	362.3	4.8	B1/500		
BM	(30°-60°)	818.6	10.7	B1/1000		
BH	(60°-80°)	532.6	7.0	B2/1000		G2/1000
BVH	(80°-90°)	37.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P158208

CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	835.0	832.5	835.0	837.1	838.6	840.6	840.1	839.6	839.1	839.6	839.6
5°	842.2	841.6	844.1	846.2	849.7	852.2	855.3	855.3	855.3	854.8	855.8
7.5°	864.9	864.4	866.9	869.0	872.0	877.1	881.1	883.1	882.7	882.7	882.7
10°	902.4	900.4	900.4	900.4	904.4	908.0	917.1	918.1	920.1	919.1	919.6
12.5°	938.9	939.4	937.9	936.3	936.8	943.9	957.1	959.6	960.1	961.6	962.6
15°	971.8	971.3	967.7	964.2	968.8	980.9	998.1	1002.7	1002.7	1005.7	1007.7
17.5°	1002.2	1001.2	994.6	988.5	993.1	1013.8	1040.6	1043.7	1048.3	1049.8	1051.8
20°	1038.1	1036.1	1028.5	1012.3	1012.3	1040.6	1076.1	1079.1	1083.2	1084.2	1087.7
22.5°	1088.2	1083.2	1067.0	1037.6	1029.5	1062.4	1106.0	1107.5	1110.5	1114.6	1117.6
25°	1145.0	1146.0	1119.7	1068.5	1050.8	1085.2	1134.8	1137.4	1142.9	1146.0	1149.5
27.5°	1203.7	1205.2	1175.8	1112.0	1082.2	1116.6	1173.8	1176.8	1183.4	1187.0	1192.6
30°	1270.6	1272.5	1244.2	1179.9	1134.3	1162.7	1231.6	1239.7	1245.2	1249.8	1258.9
32.5°	1431.1	1418.9	1399.1	1330.8	1258.9	1256.9	1324.7	1333.9	1341.4	1351.1	1359.7
35°	1633.1	1640.7	1650.8	1604.8	1541.5	1495.4	1501.0	1495.9	1503.0	1517.2	1525.7
37.5°	1793.2	1809.8	1853.9	1883.8	1881.2	1872.1	1787.0	1787.0	1791.6	1784.0	1783.0
40°	1918.7	1929.4	2019.5	2135.5	2233.2	2281.3	2213.9	2204.3	2209.4	2170.4	2171.9
42.5°	1983.5	1999.3	2128.9	2332.4	2526.4	2680.9	2660.1	2653.5	2638.3	2628.7	2622.6
45°	2016.5	2035.2	2189.6	2469.2	2751.7	2990.3	3097.6	3096.6	3082.9	3071.8	3066.7
47.5°	1999.7	2015.9	2180.5	2510.7	2870.2	3189.8	3427.3	3442.0	3437.9	3454.1	3460.7
50°	1890.4	1911.1	2076.2	2421.1	2820.6	3268.3	3655.7	3683.0	3720.0	3743.3	3774.2
52.5°	1791.6	1808.8	1957.7	2275.7	2657.6	3204.5	3793.4	3849.6	3900.2	3947.9	3984.8
55°	1688.3	1705.6	1836.2	2124.8	2493.0	3016.1	3856.2	3938.2	4017.2	4097.8	4171.7
57.5°	1649.3	1667.6	1764.8	2007.8	2358.3	2829.2	3887.1	4021.8	4150.4	4287.1	4428.9
60°	1750.6	1766.8	1840.7	2010.9	2255.5	2642.3	3824.8	4036.5	4257.8	4483.1	4700.9
62.5°	1719.7	1728.3	1820.5	2084.3	2386.6	2458.0	3554.9	3834.4	4156.0	4486.1	4819.9
65°	1483.7	1500.4	1569.8	1801.7	2313.2	2433.2	3143.7	3424.7	3804.1	4194.5	4641.6
67.5°	1064.5	1041.1	1094.8	1297.9	1794.7	2429.2	2680.9	2889.0	3186.2	3485.5	3852.1
70°	483.6	472.4	514.5	675.0	1082.7	1919.8	2266.6	2337.0	2447.4	2648.9	2896.6
72.5°	190.9	190.4	217.7	279.0	512.0	1235.6	1906.1	1946.6	1985.6	2073.2	2180.0
75°	125.1	125.1	133.2	150.4	252.2	596.5	1612.4	1649.3	1709.1	1733.9	1779.5
77.5°	94.2	94.7	98.2	102.3	139.3	314.0	1137.8	1269.0	1370.3	1445.8	1501.0
80°	66.8	69.9	76.4	79.0	90.7	178.7	643.1	737.8	852.2	974.3	1127.8
82.5°	50.2	53.7	64.8	67.9	71.9	101.8	290.2	329.2	384.4	498.3	716.5
85°	23.3	25.8	44.6	48.6	52.1	58.7	147.4	164.6	186.8	204.6	238.5
87.5°	3.5	2.5	7.6	10.6	16.7	17.2	50.6	60.2	65.3	78.5	81.5
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: P158208

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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	839.6	840.1	840.6	839.6	840.1	840.1	839.1	838.6	838.6	838.6	839.1
5°	855.8	856.8	855.8	856.3	858.4	857.8	856.8	856.3	858.4	858.8	857.3
7.5°	884.7	885.2	883.1	885.7	886.7	887.2	887.2	888.2	888.2	889.7	888.2
10°	921.7	921.7	925.2	924.7	925.2	926.2	926.7	928.7	930.2	930.2	931.3
12.5°	964.2	964.7	968.2	968.8	970.7	971.3	974.3	972.3	977.3	977.3	978.8
15°	1008.2	1011.8	1012.3	1017.4	1018.4	1018.9	1022.9	1022.9	1026.5	1027.0	1028.0
17.5°	1051.8	1054.8	1056.8	1060.9	1064.5	1066.0	1067.5	1070.5	1073.0	1074.1	1076.6
20°	1089.2	1092.3	1094.3	1098.4	1101.4	1103.9	1105.4	1109.0	1111.6	1112.5	1116.1
22.5°	1120.7	1122.7	1126.2	1131.8	1132.8	1135.9	1140.4	1142.9	1144.0	1147.0	1151.0
25°	1154.1	1157.1	1159.1	1164.2	1168.3	1173.3	1177.4	1181.4	1182.4	1186.5	1190.0
27.5°	1198.6	1201.7	1202.2	1212.3	1216.4	1223.5	1228.0	1234.1	1237.1	1240.7	1247.8
30°	1264.4	1271.6	1274.6	1286.2	1288.3	1296.4	1304.5	1306.5	1311.1	1311.5	1323.2
32.5°	1365.2	1375.4	1379.4	1391.6	1394.6	1402.2	1406.8	1417.4	1417.9	1423.0	1425.5
35°	1530.3	1527.8	1543.5	1546.5	1555.6	1562.2	1566.8	1566.8	1576.4	1576.9	1580.0
37.5°	1755.7	1750.6	1754.6	1736.4	1741.0	1732.9	1731.4	1733.4	1729.3	1730.3	1729.9
40°	2116.2	2093.5	2069.6	2013.4	2001.3	1978.0	1959.7	1945.1	1930.9	1915.7	1905.5
42.5°	2568.4	2535.5	2500.1	2410.0	2367.9	2322.8	2278.8	2253.5	2202.8	2171.9	2155.2
45°	3042.4	3004.0	2954.3	2879.3	2819.6	2771.5	2691.0	2653.0	2574.5	2535.5	2482.9
47.5°	3430.8	3431.3	3391.3	3315.4	3251.6	3219.7	3169.5	3096.1	3007.0	2956.9	2863.1
50°	3770.6	3770.1	3767.6	3722.0	3677.5	3642.5	3598.4	3532.1	3459.2	3402.5	3295.1
52.5°	4021.8	4055.2	4069.4	4068.9	4063.3	4047.1	4013.7	3956.5	3882.5	3850.6	3765.1
55°	4229.4	4302.3	4340.3	4423.4	4430.9	4457.8	4428.4	4428.9	4385.4	4388.4	4361.0
57.5°	4543.9	4677.1	4753.5	4937.3	5029.5	5140.9	5121.2	5214.4	5248.3	5291.3	5348.5
60°	4900.9	5149.5	5330.8	5696.5	5845.3	6025.6	6124.9	6230.7	6307.7	6386.6	6444.9
62.5°	5156.1	5482.7	5780.5	6301.6	6495.0	6684.9	6810.0	6938.1	7024.7	7081.4	7123.4
65°	5051.8	5412.8	5764.8	6311.2	6521.9	6659.6	6808.5	6882.4	6969.0	7016.1	7076.3
67.5°	4292.7	4654.8	5032.0	5676.7	5897.0	6087.4	6203.3	6299.0	6368.9	6428.7	6498.1
70°	3192.3	3588.3	3978.2	4685.2	4963.2	5238.1	5374.9	5493.4	5566.3	5626.6	5703.0
72.5°	2297.5	2545.6	2789.2	3580.7	3858.7	4214.2	4356.0	4487.6	4582.4	4579.3	4660.3
75°	1829.1	1929.8	2038.3	2446.9	2646.4	2946.2	3025.7	3099.7	3055.1	2969.5	2964.4
77.5°	1522.7	1564.3	1600.7	1728.8	1758.2	1829.6	1790.1	1749.1	1616.9	1505.5	1446.8
80°	1236.1	1318.1	1371.8	1463.0	1500.4	1521.7	1527.3	1513.1	1464.5	1397.2	1289.8
82.5°	919.1	1075.1	1181.4	1360.7	1426.5	1440.2	1466.5	1450.3	1418.4	1363.7	1286.8
85°	269.4	304.9	349.4	474.0	555.5	624.9	695.8	730.7	752.5	722.1	642.6
87.5°	94.7	106.9	119.5	164.6	175.2	211.7	207.6	245.1	246.6	257.2	246.1
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: P158208

CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	838.6	838.6	838.6	839.1	839.1	839.1	838.1	837.6	838.1	839.1	839.1
5°	858.4	858.8	859.9	857.8	858.4	859.9	858.8	858.4	858.8	859.9	858.8
7.5°	890.2	890.8	889.7	891.8	891.8	892.8	894.3	892.8	893.3	893.8	894.3
10°	931.7	932.3	933.3	934.8	935.3	936.3	937.3	938.9	938.9	937.9	940.4
12.5°	981.4	980.9	981.9	983.9	985.0	986.5	989.5	989.5	991.5	991.0	993.5
15°	1030.0	1032.5	1033.0	1036.6	1038.1	1040.6	1044.2	1046.2	1046.2	1049.2	1050.2
17.5°	1078.6	1080.7	1082.7	1085.7	1087.7	1089.2	1093.3	1095.8	1095.4	1100.9	1100.9
20°	1116.1	1120.1	1122.7	1124.7	1128.2	1130.8	1133.8	1136.9	1138.9	1142.4	1143.4
22.5°	1152.5	1155.1	1158.7	1161.2	1165.2	1168.3	1171.8	1174.3	1177.9	1182.4	1184.0
25°	1193.0	1197.1	1201.1	1204.7	1207.7	1211.3	1217.4	1222.9	1228.0	1232.0	1233.6
27.5°	1249.3	1253.8	1259.9	1262.5	1267.0	1270.0	1279.1	1286.2	1288.8	1295.9	1297.9
30°	1325.2	1330.3	1336.4	1339.4	1347.5	1351.6	1361.2	1368.8	1371.3	1379.9	1381.4
32.5°	1435.1	1438.1	1450.3	1449.8	1460.9	1472.6	1478.2	1484.2	1495.4	1499.9	1501.4
35°	1587.5	1594.6	1603.3	1602.7	1616.9	1623.5	1634.6	1641.2	1649.3	1648.8	1657.4
37.5°	1734.9	1737.4	1740.5	1747.1	1757.2	1766.3	1770.4	1777.0	1783.0	1792.1	1803.3
40°	1895.5	1901.5	1902.0	1905.5	1910.6	1922.3	1929.8	1937.0	1957.7	1970.9	1977.5
42.5°	2136.0	2134.4	2124.3	2130.9	2134.0	2151.7	2157.2	2179.0	2202.3	2230.1	2237.8
45°	2445.4	2425.1	2419.0	2416.5	2432.7	2441.8	2464.6	2505.1	2529.4	2555.8	2568.4
47.5°	2826.2	2762.9	2733.0	2726.4	2743.1	2782.1	2789.7	2829.7	2861.6	2880.9	2893.6
50°	3207.5	3157.9	3095.1	3073.8	3069.2	3105.2	3113.8	3147.2	3179.6	3185.2	3178.6
52.5°	3686.6	3605.5	3501.7	3464.2	3434.3	3436.9	3444.0	3458.2	3478.9	3470.3	3452.6
55°	4299.3	4207.1	4156.0	4085.1	4040.0	4031.9	4001.0	3958.5	3956.9	3962.5	3909.4
57.5°	5319.7	5281.2	5303.0	5295.4	5250.8	5277.7	5138.4	5098.9	5067.5	5012.8	4963.7
60°	6496.6	6536.0	6581.1	6684.9	6680.3	6784.7	6688.0	6663.7	6634.3	6465.7	6383.1
62.5°	7196.9	7212.6	7278.9	7375.6	7470.8	7570.6	7615.7	7631.3	7570.1	7432.4	7260.2
65°	7074.8	7144.2	7208.5	7292.1	7389.8	7489.6	7584.8	7640.5	7626.3	7535.2	7345.7
67.5°	6520.3	6593.3	6687.4	6775.1	6880.4	6967.0	7071.3	7173.6	7176.6	7131.1	6999.4
70°	5711.1	5795.7	5892.9	5942.0	6056.0	6134.5	6221.0	6322.3	6355.3	6360.8	6207.4
72.5°	4643.2	4678.6	4726.2	4700.3	4723.1	4773.3	4750.0	4758.1	4633.0	4656.3	4466.9
75°	2827.7	2795.3	2651.5	2520.3	2360.3	2237.3	2266.6	2031.7	1800.2	1788.6	1621.5
77.5°	1434.1	1382.5	1293.4	1200.7	1064.9	909.5	779.8	640.1	522.1	454.7	390.4
80°	1221.4	1184.9	1135.9	1068.5	969.7	854.8	719.6	613.3	514.5	411.7	329.6
82.5°	1168.7	1057.4	986.0	929.8	822.9	716.5	642.6	569.7	499.8	436.5	345.8
85°	579.8	513.0	434.0	384.8	296.2	231.9	217.3	178.7	166.6	128.6	108.4
87.5°	194.9	159.5	119.0	100.3	80.0	65.3	64.3	57.2	56.7	51.7	47.6
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: P158208

CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	838.6	839.6	839.6	838.6	839.1	838.1	838.6	839.1	837.6	837.1	835.6
5°	859.4	858.8	858.8	859.4	860.9	861.4	858.8	859.9	860.3	857.8	852.2
7.5°	893.8	893.8	895.3	894.8	897.8	896.8	896.3	896.3	896.3	891.2	882.1
10°	940.4	940.4	941.9	943.9	944.4	943.4	943.4	943.9	946.4	936.3	922.1
12.5°	992.5	995.0	994.6	994.6	1000.6	999.1	997.1	999.1	1001.6	987.5	967.2
15°	1050.8	1052.3	1053.3	1056.8	1055.8	1059.4	1060.4	1059.4	1061.9	1043.7	1009.7
17.5°	1103.5	1106.5	1107.5	1111.6	1111.6	1112.0	1116.1	1114.6	1115.1	1094.3	1045.7
20°	1147.0	1150.0	1151.5	1156.1	1157.1	1159.1	1160.6	1161.7	1164.2	1139.4	1075.1
22.5°	1190.5	1193.0	1195.6	1198.6	1202.7	1205.2	1207.3	1208.3	1212.8	1184.0	1102.9
25°	1239.1	1244.7	1247.2	1252.3	1256.3	1260.4	1263.5	1264.0	1271.6	1235.6	1125.7
27.5°	1304.0	1311.5	1315.6	1323.7	1327.7	1331.8	1330.8	1336.9	1347.5	1294.9	1143.4
30°	1389.1	1398.7	1401.2	1409.3	1415.9	1420.0	1424.5	1429.6	1436.6	1360.7	1152.1
32.5°	1507.6	1522.2	1525.7	1530.3	1540.0	1547.0	1550.1	1558.2	1560.2	1423.0	1149.5
35°	1670.1	1663.5	1680.7	1684.8	1698.4	1704.0	1707.5	1718.2	1710.1	1490.8	1132.8
37.5°	1816.9	1814.9	1831.6	1840.7	1858.4	1854.4	1863.0	1870.1	1841.3	1538.9	1101.9
40°	1996.2	1993.7	2017.0	2020.0	2047.4	2041.3	2044.8	2050.4	1986.1	1572.4	1045.7
42.5°	2246.3	2247.4	2272.2	2275.3	2278.8	2289.9	2271.7	2272.7	2140.0	1581.5	953.0
45°	2576.0	2593.7	2578.6	2579.0	2578.1	2556.8	2534.0	2507.2	2300.0	1550.1	833.5
47.5°	2895.5	2883.4	2864.2	2846.5	2831.8	2798.3	2764.9	2719.3	2438.3	1475.6	700.3
50°	3169.0	3141.7	3124.4	3075.4	3040.4	2996.8	2950.3	2898.1	2551.7	1368.3	575.8
52.5°	3423.2	3394.9	3330.5	3279.4	3229.3	3171.5	3117.4	3056.1	2652.0	1245.7	480.5
55°	3845.6	3820.7	3756.4	3662.8	3601.0	3521.5	3450.1	3367.0	2855.0	1146.5	417.8
57.5°	4828.5	4807.2	4672.0	4612.7	4531.2	4331.7	4302.3	4172.7	3399.4	1134.8	380.8
60°	6212.5	6121.3	6008.9	5846.8	5655.9	5590.1	5443.3	5270.6	4275.5	1166.8	350.9
62.5°	7062.2	6854.6	6689.5	6502.6	6326.9	6176.0	6015.5	5844.8	4723.6	1124.7	314.0
65°	7126.0	6881.9	6663.7	6444.4	6246.9	6059.0	5903.0	5732.4	4577.8	966.7	265.9
67.5°	6774.5	6517.3	6279.3	6030.7	5831.2	5661.5	5463.0	5298.9	4166.6	752.5	221.3
70°	6049.9	5824.0	5618.9	5351.1	5185.5	4978.9	4852.8	4647.7	3631.9	513.0	182.8
72.5°	4357.5	4187.4	4120.6	3933.7	3716.9	3595.4	3537.2	3338.2	2683.9	318.5	149.4
75°	1472.1	1514.1	1417.9	1270.6	1342.4	1231.6	1276.6	1181.9	1135.3	182.8	125.6
77.5°	326.6	306.9	283.6	263.3	261.8	246.1	260.8	246.6	263.8	116.5	110.9
80°	257.8	203.6	173.2	158.0	149.9	145.3	141.8	137.8	125.6	99.2	102.3
82.5°	278.5	210.2	154.0	123.1	105.4	98.8	97.2	93.2	92.2	96.2	103.3
85°	89.1	74.5	63.3	59.8	55.2	52.7	51.7	50.2	60.8	104.8	99.2
87.5°	46.6	41.0	36.5	34.9	30.4	28.4	27.8	28.4	42.5	104.8	71.9
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: P158208

CATALOG NUMBER: VST-E03-LED-E-U-SL2-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	834.1	833.5	832.5	832.0	831.5	829.0	831.0
5°	849.7	844.7	840.1	834.5	831.5	829.0	829.0
7.5°	873.5	859.4	847.7	835.0	826.4	819.8	818.8
10°	903.4	876.1	849.2	826.4	810.2	798.1	796.6
12.5°	931.7	890.2	847.7	810.2	784.9	767.7	766.7
15°	958.1	897.8	836.0	780.8	742.9	720.1	717.5
17.5°	978.8	893.3	809.7	739.9	688.2	661.4	659.8
20°	983.4	875.0	772.3	689.2	634.5	606.2	599.6
22.5°	979.4	842.2	725.6	633.5	570.7	542.3	538.8
25°	967.2	802.1	667.9	568.7	510.4	481.6	474.5
27.5°	945.4	755.0	605.6	505.9	448.1	420.3	413.2
30°	913.0	698.3	539.3	447.1	387.4	365.1	358.0
32.5°	868.0	629.5	474.0	386.9	337.3	319.6	316.5
35°	805.7	550.4	405.6	337.3	300.8	290.2	288.7
37.5°	726.2	471.5	348.4	301.8	275.5	268.9	267.9
40°	622.4	390.4	307.9	276.5	257.2	251.7	250.7
42.5°	515.5	329.6	278.0	256.3	240.5	235.5	233.9
45°	421.8	288.7	255.7	239.5	224.8	219.2	218.8
47.5°	352.0	264.8	237.5	224.3	209.6	203.0	203.6
50°	300.8	243.1	222.3	211.1	194.5	188.4	188.9
52.5°	265.9	221.3	208.1	195.5	181.3	175.2	175.2
55°	238.5	203.6	194.5	180.8	169.6	164.1	163.6
57.5°	216.2	189.4	181.3	170.2	159.0	152.4	152.4
60°	202.6	179.3	172.7	162.5	149.4	142.3	141.8
62.5°	194.5	176.2	170.6	156.5	141.8	134.7	133.2
65°	188.4	183.3	176.2	152.9	135.7	128.1	126.6
67.5°	188.9	200.0	189.9	155.0	133.7	122.5	120.5
70°	191.9	213.2	199.5	159.5	142.3	120.0	115.4
72.5°	176.8	193.0	179.8	151.9	138.8	115.4	109.9
75°	147.4	140.8	129.1	123.5	124.6	104.8	102.8
77.5°	119.5	104.8	93.7	98.2	104.8	89.6	87.6
80°	103.8	85.1	79.5	87.1	95.2	76.4	71.4
82.5°	97.2	71.9	68.3	90.7	99.8	65.8	57.7
85°	85.6	58.7	53.7	106.9	99.8	49.6	46.1
87.5°	57.2	34.9	33.4	78.5	68.3	34.4	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)