

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: P158217

Luminaire Tested: **VST-F03-LED-E-U-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158217
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-F03-LED-E-U-SL2-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7646 lumens
Efficiency: N/A
Efficacy: 97.6 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): 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



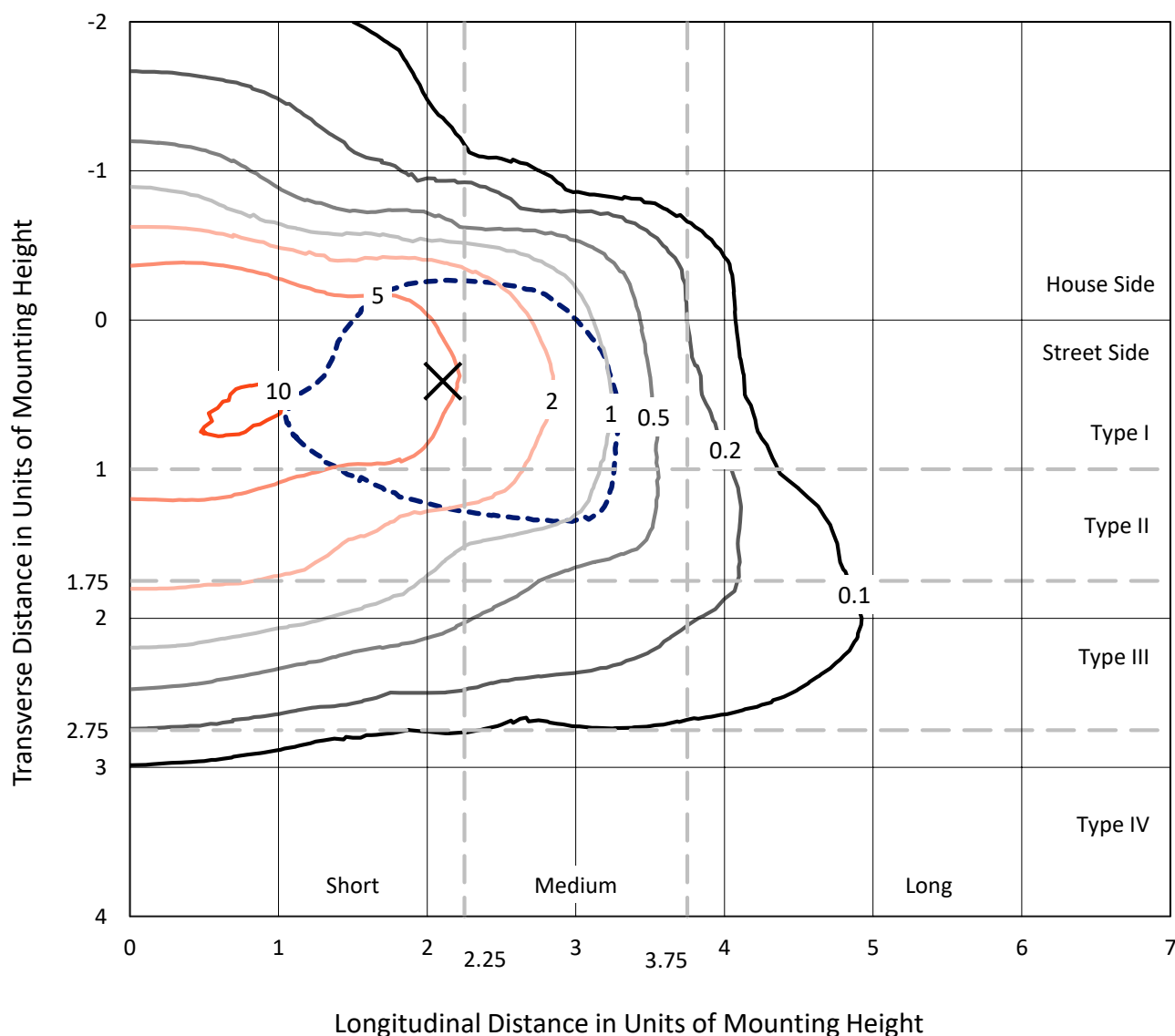
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

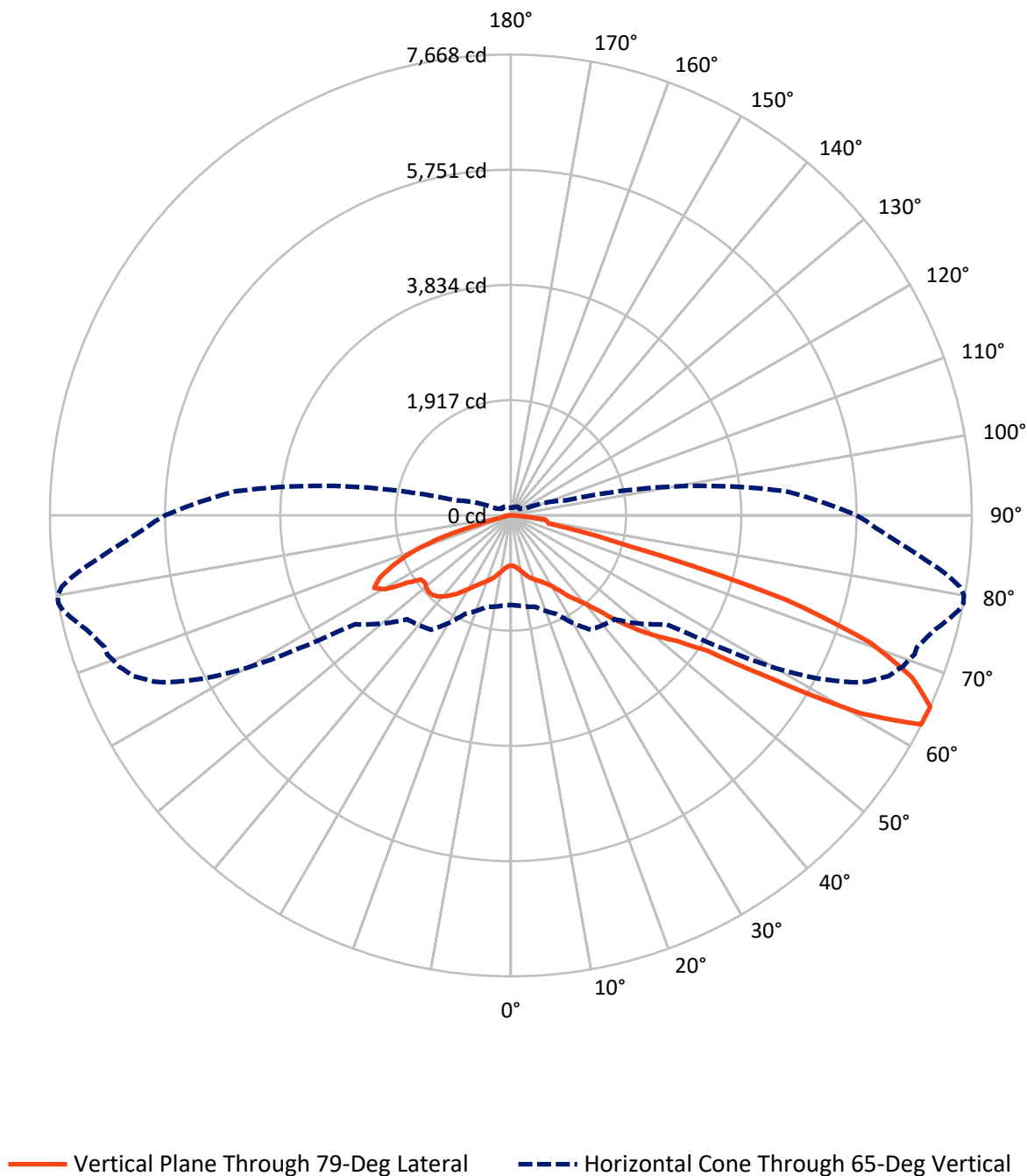


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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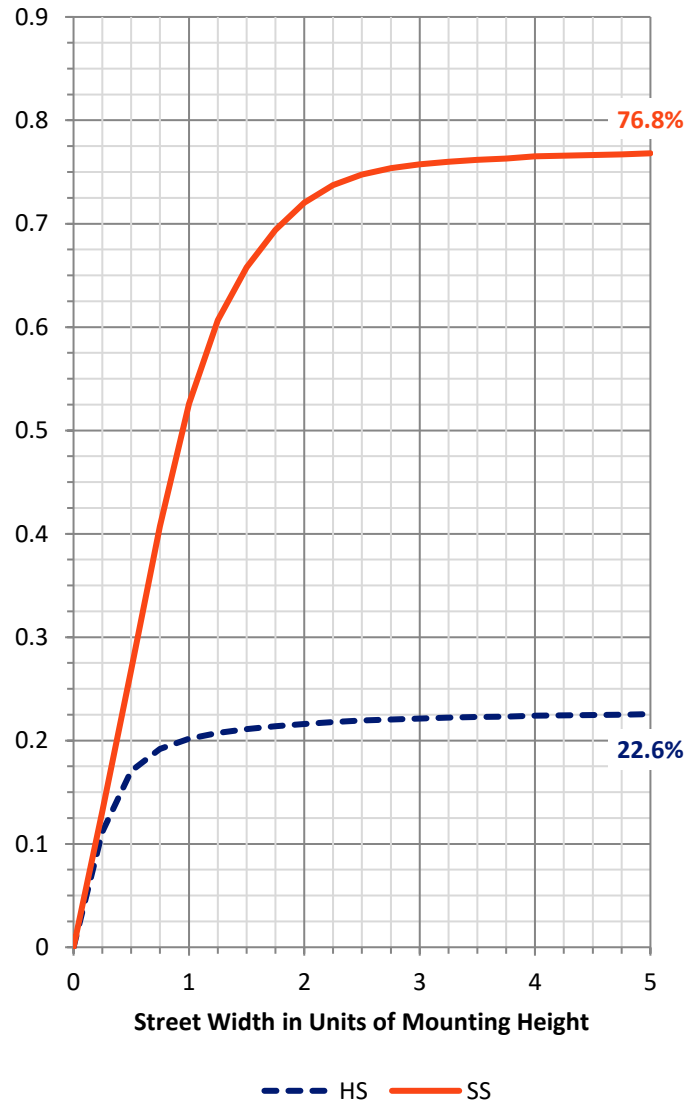
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.9	0.0	1756.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5889.1	0.0	5889.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	7646.0	0.0	7646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.1
10°-20°	268.8	3.5
20°-30°	463.4	6.1
30°-40°	759.1	9.9
40°-50°	1271.2	16.6
50°-60°	1719.4	22.5
60°-70°	2117.5	27.7
70°-80°	819.7	10.7
80°-90°	144.1	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°	7646.0	100.0
0°-180°	7646.0	100.0

Coefficient of Utilization



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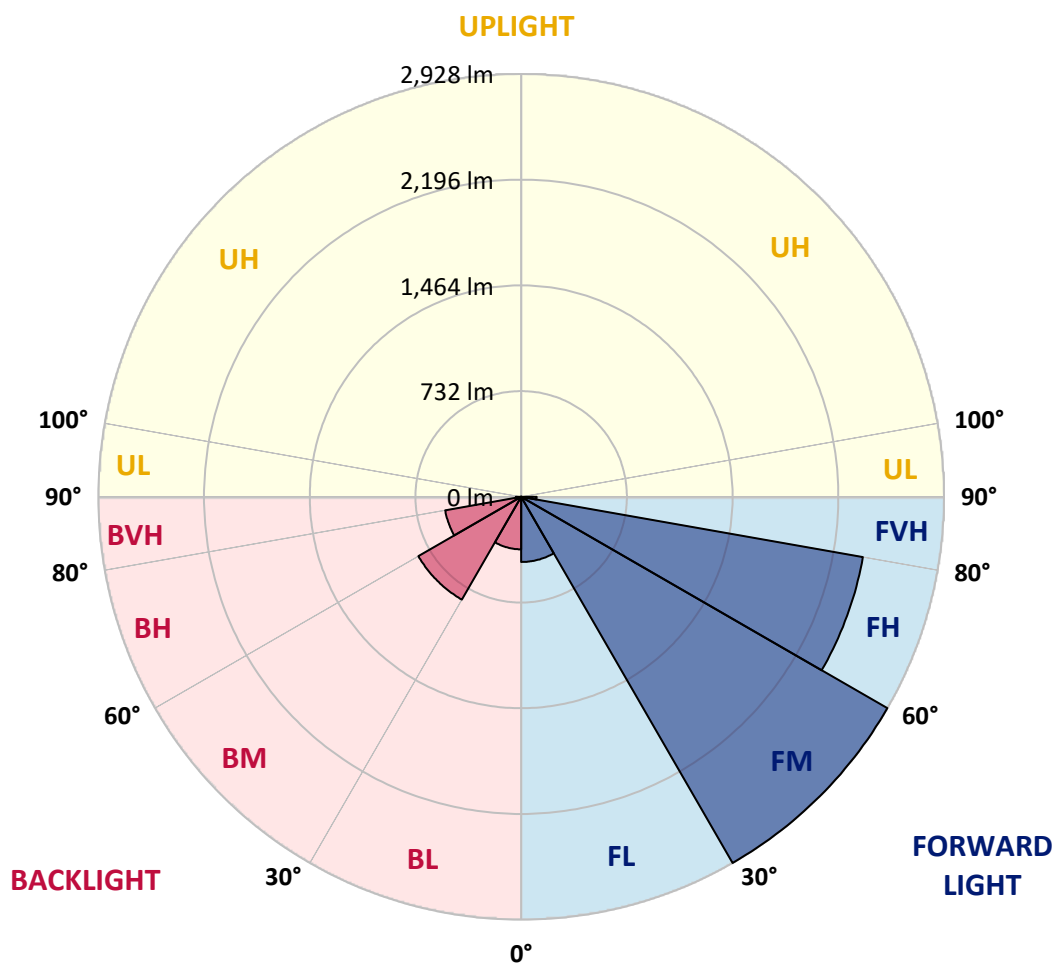
CATALOG NUMBER: VST-F03-LED-E-U-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.4	5.9			
FM	(30°-60°)	2928.1	38.3			
FH	(60°-80°)	2402.6	31.4			G2/5000
FVH	(80°-90°)	107.0	1.4			G2/225
BL	(0°-30°)	363.6	4.8	B1/500		
BM	(30°-60°)	821.6	10.7	B1/1000		
BH	(60°-80°)	534.5	7.0	B2/1000		G2/1000
BVH	(80°-90°)	37.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	838.1	835.6	838.1	840.1	841.7	843.7	843.2	842.7	842.2	842.7	842.7
5°	845.2	844.7	847.3	849.3	852.8	855.4	858.4	858.4	858.4	857.9	859.0
7.5°	868.1	867.6	870.1	872.2	875.2	880.3	884.3	886.4	885.9	885.9	885.9
10°	905.7	903.7	903.7	903.7	907.7	911.3	920.5	921.4	923.5	922.4	923.0
12.5°	942.3	942.8	941.3	939.7	940.3	947.3	960.6	963.1	963.7	965.2	966.2
15°	975.3	974.8	971.3	967.7	972.3	984.5	1001.8	1006.3	1006.3	1009.4	1011.4
17.5°	1005.8	1004.8	998.2	992.1	996.7	1017.5	1044.4	1047.5	1052.0	1053.6	1055.6
20°	1041.9	1039.9	1032.2	1016.0	1016.0	1044.4	1080.0	1083.1	1087.1	1088.2	1091.7
22.5°	1092.2	1087.1	1070.9	1041.4	1033.3	1066.3	1110.0	1111.6	1114.6	1118.6	1121.7
25°	1149.1	1150.1	1123.7	1072.4	1054.6	1089.2	1139.0	1141.5	1147.1	1150.1	1153.7
27.5°	1208.1	1209.6	1180.1	1116.1	1086.1	1120.7	1178.1	1181.2	1187.8	1191.3	1196.9
30°	1275.2	1277.2	1248.8	1184.2	1138.4	1166.9	1236.1	1244.2	1249.8	1254.4	1263.5
32.5°	1436.3	1424.1	1404.3	1335.7	1263.5	1261.4	1329.5	1338.7	1346.3	1356.0	1364.6
35°	1639.1	1646.7	1656.9	1610.6	1547.1	1500.8	1506.4	1501.4	1508.5	1522.7	1531.3
37.5°	1799.7	1816.4	1860.7	1890.7	1888.1	1879.0	1793.6	1793.6	1798.2	1790.5	1789.6
40°	1925.8	1936.4	2026.9	2143.3	2241.4	2289.7	2222.0	2212.4	2217.5	2178.4	2179.9
42.5°	1990.8	2006.6	2136.7	2341.0	2535.7	2690.6	2669.8	2663.2	2648.0	2638.3	2632.2
45°	2023.9	2042.6	2197.7	2478.2	2761.8	3001.2	3109.0	3107.9	3094.2	3083.0	3077.9
47.5°	2007.1	2023.3	2188.5	2519.9	2880.7	3201.4	3439.8	3454.6	3450.5	3466.7	3473.3
50°	1897.3	1918.1	2083.8	2429.9	2830.9	3280.2	3669.0	3696.5	3733.6	3757.0	3788.0
52.5°	1798.2	1815.5	1964.9	2284.1	2667.3	3216.2	3807.2	3863.7	3914.5	3962.3	3999.4
55°	1694.5	1711.8	1842.9	2132.6	2502.1	3027.1	3870.3	3952.6	4031.9	4112.7	4186.9
57.5°	1655.3	1673.6	1771.3	2015.2	2366.9	2839.6	3901.3	4036.5	4165.6	4302.8	4445.1
60°	1757.0	1773.2	1847.5	2018.2	2263.7	2652.0	3838.8	4051.2	4273.3	4499.5	4718.0
62.5°	1726.0	1734.7	1827.1	2092.0	2395.4	2467.0	3567.9	3848.5	4171.1	4502.5	4837.5
65°	1489.1	1505.9	1575.5	1808.3	2321.6	2442.1	3155.2	3437.3	3817.9	4209.8	4658.6
67.5°	1068.4	1045.0	1098.8	1302.7	1801.2	2438.0	2690.6	2899.6	3197.9	3498.2	3866.2
70°	485.4	474.2	516.4	677.5	1086.6	1926.8	2274.9	2345.6	2456.3	2658.7	2907.2
72.5°	191.6	191.1	218.5	280.0	513.8	1240.1	1913.0	1953.7	1992.8	2080.7	2188.0
75°	125.5	125.5	133.7	151.0	253.1	598.7	1618.3	1655.3	1715.3	1740.2	1786.0
77.5°	94.6	95.0	98.6	102.7	139.7	315.1	1142.0	1273.7	1375.3	1451.0	1506.4
80°	67.1	70.1	76.7	79.3	91.0	179.4	645.5	740.5	855.4	977.9	1131.8
82.5°	50.3	53.9	65.0	68.1	72.2	102.2	291.2	330.4	385.7	500.1	719.2
85°	23.4	25.9	44.7	48.8	52.3	59.0	147.9	165.2	187.6	205.3	239.4
87.5°	3.5	2.5	7.6	10.7	16.8	17.3	50.8	60.5	65.6	78.8	81.8
90°	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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CATALOG NUMBER: VST-F03-LED-E-U-SL2-7060

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	842.7	843.2	843.7	842.7	843.2	843.2	842.2	841.7	841.7	841.7	842.2
5°	859.0	860.0	859.0	859.4	861.5	860.9	860.0	859.4	861.5	862.0	860.5
7.5°	887.9	888.4	886.4	888.9	889.9	890.5	890.5	891.5	891.5	893.0	891.5
10°	925.0	925.0	928.6	928.1	928.6	929.6	930.1	932.1	933.7	933.7	934.7
12.5°	967.7	968.2	971.8	972.3	974.3	974.8	977.9	975.8	980.9	980.9	982.4
15°	1011.9	1015.5	1016.0	1021.1	1022.1	1022.6	1026.7	1026.7	1030.2	1030.7	1031.8
17.5°	1055.6	1058.7	1060.7	1064.8	1068.4	1069.9	1071.4	1074.4	1077.0	1078.0	1080.5
20°	1093.3	1096.3	1098.3	1102.4	1105.4	1108.0	1109.5	1113.1	1115.6	1116.6	1120.2
22.5°	1124.8	1126.8	1130.3	1135.9	1136.9	1140.0	1144.6	1147.1	1148.1	1151.2	1155.2
25°	1158.3	1161.4	1163.4	1168.4	1172.5	1177.6	1181.7	1185.7	1186.7	1190.8	1194.4
27.5°	1203.0	1206.1	1206.6	1216.7	1220.8	1227.9	1232.5	1238.6	1241.6	1245.2	1252.3
30°	1269.1	1276.2	1279.3	1291.0	1293.0	1301.1	1309.3	1311.3	1315.9	1316.3	1328.0
32.5°	1370.2	1380.4	1384.4	1396.7	1399.7	1407.4	1411.9	1422.6	1423.1	1428.2	1430.7
35°	1535.9	1533.4	1549.1	1552.2	1561.3	1567.9	1572.5	1572.5	1582.1	1582.7	1585.7
37.5°	1762.1	1757.0	1761.1	1742.8	1747.3	1739.2	1737.7	1739.7	1735.7	1736.7	1736.2
40°	2123.9	2101.1	2077.2	2020.8	2008.6	1985.2	1966.9	1952.2	1937.9	1922.7	1912.5
42.5°	2577.8	2544.8	2509.2	2418.7	2376.5	2331.3	2287.1	2261.7	2210.9	2179.9	2163.1
45°	3053.5	3014.9	2965.1	2889.9	2829.9	2781.6	2700.8	2662.7	2583.9	2544.8	2491.9
47.5°	3443.3	3443.9	3403.7	3327.5	3263.5	3231.4	3181.1	3107.4	3017.9	2967.7	2873.6
50°	3784.4	3783.9	3781.3	3735.6	3690.9	3655.8	3611.6	3545.0	3471.8	3414.9	3307.1
52.5°	4036.5	4070.0	4084.3	4083.8	4078.1	4061.9	4028.3	3970.9	3896.7	3864.7	3778.8
55°	4244.9	4318.1	4356.2	4439.5	4447.1	4474.1	4444.6	4445.1	4401.4	4404.5	4377.0
57.5°	4560.5	4694.2	4770.9	4955.4	5047.9	5159.7	5139.9	5233.4	5267.5	5310.7	5368.1
60°	4918.8	5168.3	5350.3	5717.3	5866.7	6047.6	6147.2	6253.4	6330.7	6410.0	6468.4
62.5°	5174.9	5502.8	5801.6	6324.6	6518.8	6709.3	6834.9	6963.5	7050.4	7107.3	7149.5
65°	5070.2	5432.6	5785.9	6334.3	6545.7	6683.9	6833.3	6907.6	6994.5	7041.7	7102.2
67.5°	4308.4	4671.8	5050.4	5697.4	5918.5	6109.6	6226.0	6322.1	6392.2	6452.2	6521.8
70°	3204.0	3601.4	3992.8	4702.3	4981.3	5257.3	5394.5	5513.5	5586.7	5647.1	5723.9
72.5°	2305.9	2554.9	2799.4	3593.8	3872.8	4229.6	4371.9	4504.1	4599.1	4596.1	4677.4
75°	1835.8	1936.9	2045.7	2455.9	2656.1	2957.0	3036.8	3110.9	3066.2	2980.4	2975.3
77.5°	1528.3	1570.0	1606.6	1735.1	1764.6	1836.3	1796.6	1755.5	1622.8	1511.0	1452.1
80°	1240.6	1322.9	1376.8	1468.3	1505.9	1527.3	1532.9	1518.7	1469.8	1402.3	1294.5
82.5°	922.4	1079.0	1185.7	1365.7	1431.7	1445.5	1471.9	1455.6	1423.6	1368.7	1291.4
85°	270.4	305.9	350.7	475.7	557.5	627.2	698.3	733.4	755.3	724.7	644.9
87.5°	95.0	107.2	119.9	165.2	175.9	212.5	208.4	246.0	247.5	258.2	247.0
90°	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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.7	841.7	841.7	842.2	842.2	842.2	841.1	840.7	841.1	842.2	842.2
5°	861.5	862.0	863.0	860.9	861.5	863.0	862.0	861.5	862.0	863.0	862.0
7.5°	893.5	894.0	893.0	895.0	895.0	896.0	897.5	896.0	896.5	897.1	897.5
10°	935.2	935.7	936.7	938.2	938.7	939.7	940.7	942.3	942.3	941.3	943.8
12.5°	985.0	984.5	985.5	987.5	988.6	990.1	993.1	993.1	995.2	994.6	997.2
15°	1033.8	1036.3	1036.8	1040.4	1041.9	1044.4	1048.0	1050.1	1050.1	1053.1	1054.1
17.5°	1082.6	1084.6	1086.6	1089.7	1091.7	1093.3	1097.3	1099.9	1099.3	1104.9	1104.9
20°	1120.2	1124.2	1126.8	1128.8	1132.4	1134.9	1138.0	1141.0	1143.1	1146.6	1147.6
22.5°	1156.7	1159.3	1162.9	1165.4	1169.5	1172.5	1176.1	1178.6	1182.2	1186.7	1188.3
25°	1197.4	1201.5	1205.6	1209.1	1212.2	1215.7	1221.8	1227.4	1232.5	1236.5	1238.1
27.5°	1253.8	1258.4	1264.5	1267.1	1271.6	1274.7	1283.8	1291.0	1293.5	1300.6	1302.7
30°	1330.1	1335.2	1341.2	1344.3	1352.5	1356.5	1366.1	1373.8	1376.3	1385.0	1386.5
32.5°	1440.4	1443.4	1455.6	1455.1	1466.3	1478.0	1483.6	1489.7	1500.8	1505.4	1507.0
35°	1593.4	1600.4	1609.1	1608.6	1622.8	1629.4	1640.6	1647.2	1655.3	1654.9	1663.5
37.5°	1741.3	1743.8	1746.8	1753.4	1763.6	1772.8	1776.8	1783.4	1789.6	1798.7	1809.8
40°	1902.4	1908.5	1909.0	1912.5	1917.6	1929.3	1936.9	1944.1	1964.9	1978.1	1984.7
42.5°	2143.8	2142.2	2132.1	2138.7	2141.8	2159.5	2165.1	2187.0	2210.3	2238.3	2245.9
45°	2454.3	2434.0	2427.9	2425.3	2441.6	2450.8	2473.6	2514.3	2538.7	2565.1	2577.8
47.5°	2836.5	2773.0	2743.0	2736.4	2753.2	2792.3	2799.9	2840.1	2872.1	2891.4	2904.1
50°	3219.2	3169.4	3106.4	3085.0	3080.5	3116.6	3125.2	3158.8	3191.3	3196.9	3190.3
52.5°	3700.0	3618.7	3514.5	3476.9	3446.9	3449.5	3456.6	3470.8	3491.6	3483.0	3465.2
55°	4315.0	4222.5	4171.1	4100.0	4054.8	4046.6	4015.6	3973.0	3971.4	3977.0	3923.6
57.5°	5339.1	5300.5	5322.4	5314.7	5270.0	5296.9	5157.2	5117.5	5086.0	5031.1	4981.8
60°	6520.3	6559.9	6605.2	6709.3	6704.8	6809.5	6712.4	6688.0	6658.5	6489.3	6406.4
62.5°	7223.2	7238.9	7305.5	7402.6	7498.1	7598.3	7643.5	7659.2	7597.7	7459.5	7286.7
65°	7100.7	7170.3	7234.9	7318.7	7416.8	7516.9	7612.5	7668.4	7654.2	7562.7	7372.6
67.5°	6544.1	6617.3	6711.9	6799.8	6905.5	6992.5	7097.2	7199.8	7202.9	7157.1	7025.0
70°	5732.0	5816.9	5914.4	5963.8	6078.1	6156.9	6243.8	6345.4	6378.5	6384.1	6230.1
72.5°	4660.1	4695.7	4743.5	4717.6	4740.4	4790.7	4767.4	4775.5	4649.9	4673.3	4483.3
75°	2838.1	2805.5	2661.2	2529.5	2368.9	2245.4	2274.9	2039.1	1806.8	1795.1	1627.4
77.5°	1439.3	1387.5	1298.0	1205.0	1068.8	912.8	782.7	642.4	524.0	456.4	391.9
80°	1225.9	1189.3	1140.0	1072.4	973.3	857.9	722.2	615.5	516.4	413.2	330.8
82.5°	1173.1	1061.2	989.6	933.1	825.9	719.2	644.9	571.8	501.7	438.1	347.2
85°	581.9	514.9	435.5	386.3	297.3	232.8	218.0	179.4	167.2	129.1	108.8
87.5°	195.7	160.1	119.5	100.6	80.3	65.6	64.6	57.4	56.9	51.8	47.8
90°	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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	841.7	842.7	842.7	841.7	842.2	841.1	841.7	842.2	840.7	840.1	838.6
5°	862.5	862.0	862.0	862.5	864.0	864.5	862.0	863.0	863.5	860.9	855.4
7.5°	897.1	897.1	898.6	898.1	901.1	900.1	899.6	899.6	899.6	894.5	885.4
10°	943.8	943.8	945.4	947.3	947.9	946.9	946.9	947.3	949.9	939.7	925.5
12.5°	996.2	998.7	998.2	998.2	1004.3	1002.8	1000.7	1002.8	1005.3	991.1	970.7
15°	1054.6	1056.1	1057.1	1060.7	1059.7	1063.3	1064.3	1063.3	1065.8	1047.5	1013.5
17.5°	1107.5	1110.5	1111.6	1115.6	1115.6	1116.1	1120.2	1118.6	1119.2	1098.3	1049.5
20°	1151.2	1154.2	1155.7	1160.3	1161.4	1163.4	1164.9	1165.9	1168.4	1143.5	1079.0
22.5°	1194.9	1197.4	1199.9	1203.0	1207.1	1209.6	1211.6	1212.7	1217.2	1188.3	1106.9
25°	1243.7	1249.3	1251.8	1256.9	1261.0	1265.0	1268.1	1268.6	1276.2	1240.1	1129.8
27.5°	1308.7	1316.3	1320.4	1328.6	1332.6	1336.7	1335.7	1341.8	1352.5	1299.6	1147.6
30°	1394.1	1403.8	1406.3	1414.4	1421.0	1425.1	1429.7	1434.8	1441.9	1365.7	1156.3
32.5°	1513.0	1527.8	1531.3	1535.9	1545.6	1552.7	1555.7	1563.9	1565.9	1428.2	1153.7
35°	1676.2	1669.6	1686.8	1690.9	1704.7	1710.2	1713.8	1724.5	1716.4	1496.3	1136.9
37.5°	1823.6	1821.5	1838.3	1847.5	1865.3	1861.2	1869.8	1877.0	1848.0	1544.6	1105.9
40°	2003.5	2000.9	2024.3	2027.4	2054.8	2048.8	2052.3	2057.9	1993.3	1578.1	1049.5
42.5°	2254.6	2255.6	2280.5	2283.5	2287.1	2298.3	2280.0	2281.0	2147.8	1587.2	956.5
45°	2585.5	2603.2	2588.0	2588.5	2587.5	2566.1	2543.3	2516.3	2308.4	1555.7	836.6
47.5°	2906.2	2893.9	2874.7	2856.8	2842.1	2808.5	2775.0	2729.3	2447.2	1481.0	702.9
50°	3180.6	3153.2	3135.9	3086.6	3051.5	3007.8	2961.1	2908.7	2561.0	1373.3	577.9
52.5°	3435.7	3407.3	3342.7	3291.4	3241.1	3183.1	3128.8	3067.3	2661.7	1250.3	482.3
55°	3859.6	3834.7	3770.2	3676.1	3614.2	3534.4	3462.7	3379.3	2865.5	1150.7	419.3
57.5°	4846.1	4824.8	4689.1	4629.6	4547.8	4347.5	4318.1	4187.9	3411.8	1139.0	382.2
60°	6235.1	6143.7	6030.8	5868.2	5676.6	5610.5	5463.1	5289.8	4291.1	1171.0	352.2
62.5°	7088.0	6879.6	6713.9	6526.4	6350.0	6198.5	6037.4	5866.1	4740.9	1128.8	315.1
65°	7152.0	6907.1	6688.0	6467.9	6269.7	6081.2	5924.6	5753.3	4594.6	970.3	266.8
67.5°	6799.3	6541.1	6302.2	6052.7	5852.5	5682.2	5483.0	5318.3	4181.8	755.3	222.1
70°	6072.0	5845.3	5639.5	5370.6	5204.5	4997.0	4870.5	4664.7	3645.1	514.9	183.5
72.5°	4373.5	4202.7	4135.6	3948.1	3730.5	3608.5	3550.1	3350.3	2693.7	319.7	149.9
75°	1477.4	1519.7	1423.1	1275.2	1347.4	1236.1	1281.3	1186.3	1139.5	183.5	126.1
77.5°	327.8	308.0	284.6	264.3	262.7	247.0	261.7	247.5	264.8	116.9	111.3
80°	258.7	204.3	173.8	158.6	150.4	145.9	142.3	138.2	126.1	99.6	102.7
82.5°	279.5	210.9	154.5	123.5	105.7	99.1	97.6	93.5	92.5	96.5	103.7
85°	89.5	74.7	63.5	60.0	55.4	52.9	51.8	50.3	61.0	105.2	99.6
87.5°	46.7	41.2	36.6	35.0	30.5	28.4	28.0	28.4	42.7	105.2	72.2
90°	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):

	125°	135°	145°	155°	165°	175°	180°
0°	836.6	836.6	836.6	836.6	836.6	836.6	836.6
2.5°	837.1	836.6	835.6	835.0	834.5	832.0	834.1
5°	852.8	847.7	843.2	837.6	834.5	832.0	832.0
7.5°	876.7	862.5	850.8	838.1	829.4	822.8	821.8
10°	906.7	879.2	852.3	829.4	813.2	801.0	799.4
12.5°	935.2	893.5	850.8	813.2	787.8	770.5	769.5
15°	961.6	901.1	839.1	783.7	745.6	722.7	720.2
17.5°	982.4	896.5	812.7	742.6	690.7	663.8	662.2
20°	987.0	878.2	775.1	691.7	636.8	608.3	601.7
22.5°	982.9	845.2	728.3	635.8	572.8	544.3	540.8
25°	970.7	805.1	670.4	570.8	512.3	483.4	476.2
27.5°	948.9	757.8	607.9	507.7	449.8	421.9	414.7
30°	916.4	700.9	541.3	448.8	388.8	366.4	359.3
32.5°	871.1	631.7	475.7	388.3	338.5	320.7	317.6
35°	808.6	552.5	407.1	338.5	301.9	291.2	289.7
37.5°	728.8	473.2	349.7	302.9	276.5	269.9	268.9
40°	624.7	391.9	309.0	277.5	258.2	252.6	251.6
42.5°	517.4	330.8	279.0	257.2	241.4	236.3	234.8
45°	423.4	289.7	256.7	240.4	225.7	220.1	219.5
47.5°	353.2	265.8	238.4	225.2	210.4	203.8	204.3
50°	301.9	244.0	223.1	211.9	195.2	189.1	189.6
52.5°	266.8	222.1	208.9	196.2	182.0	175.9	175.9
55°	239.4	204.3	195.2	181.4	170.3	164.7	164.2
57.5°	217.0	190.1	182.0	170.8	159.6	153.0	153.0
60°	203.3	179.9	173.3	163.1	149.9	142.8	142.3
62.5°	195.2	176.9	171.3	157.0	142.3	135.2	133.7
65°	189.1	184.0	176.9	153.5	136.2	128.6	127.1
67.5°	189.6	200.8	190.6	155.5	134.2	123.0	121.0
70°	192.6	214.0	200.2	160.1	142.8	120.5	115.9
72.5°	177.4	193.6	180.4	152.5	139.3	115.9	110.3
75°	147.9	141.3	129.6	124.0	125.0	105.2	103.2
77.5°	119.9	105.2	94.0	98.6	105.2	89.9	87.9
80°	104.2	85.4	79.8	87.4	95.6	76.7	71.6
82.5°	97.6	72.2	68.6	91.0	100.1	66.1	58.0
85°	85.9	59.0	53.9	107.2	100.1	49.8	46.3
87.5°	57.4	35.0	33.5	78.8	68.6	34.6	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)