

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: P159315

Luminaire Tested: **VST-F03-LED-E-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159315  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)  
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-T2  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7644.5 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 - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

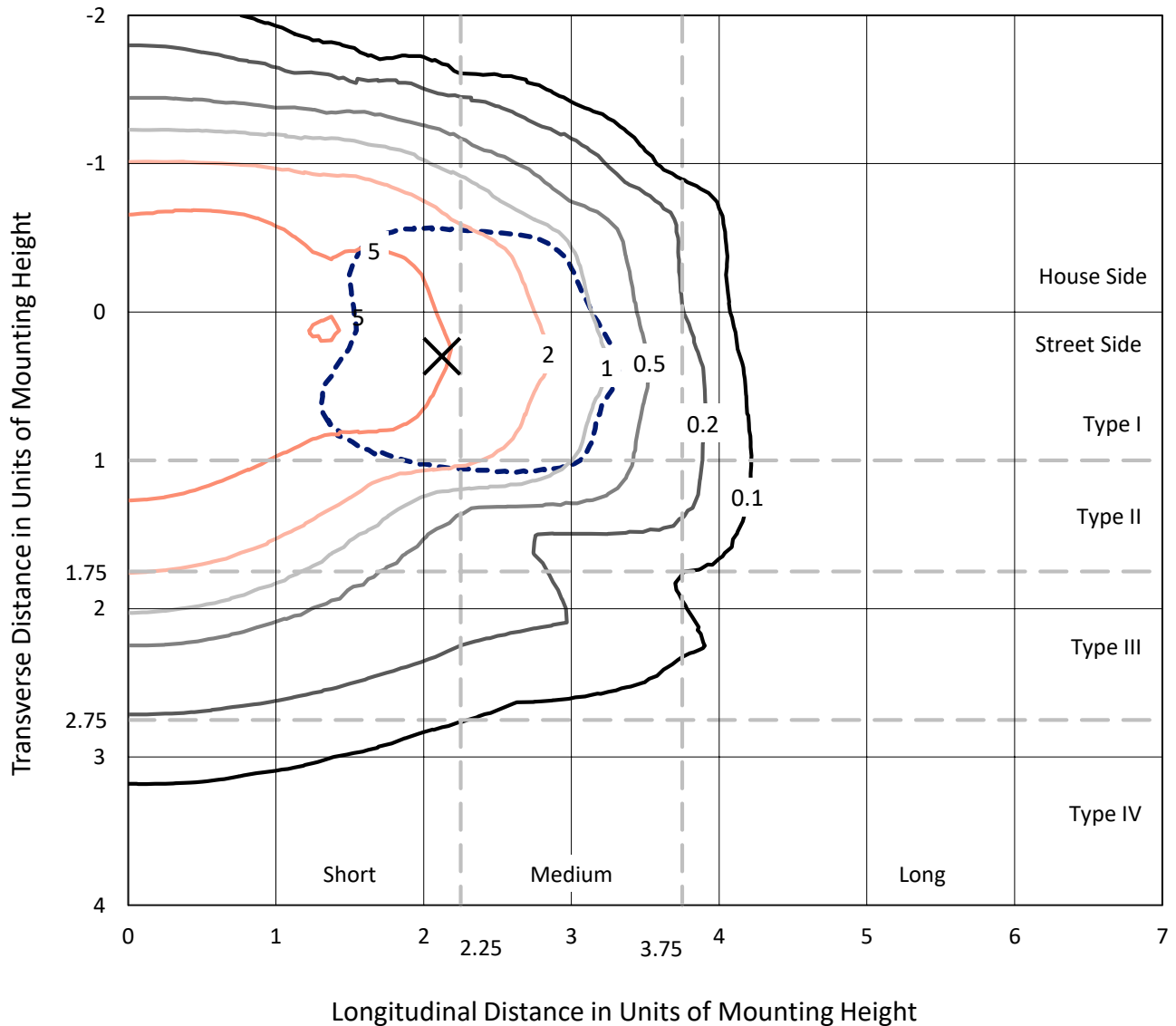
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

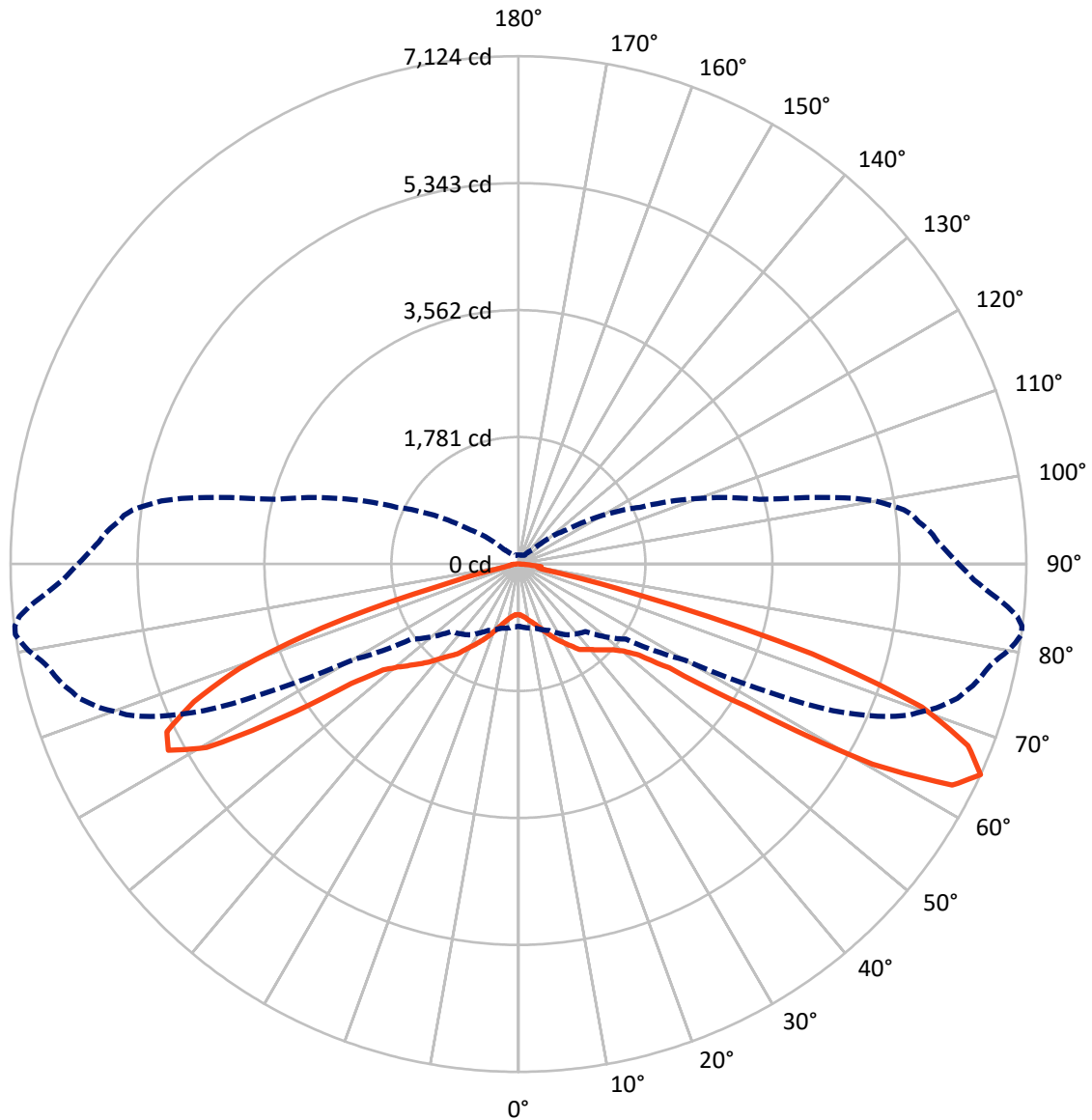
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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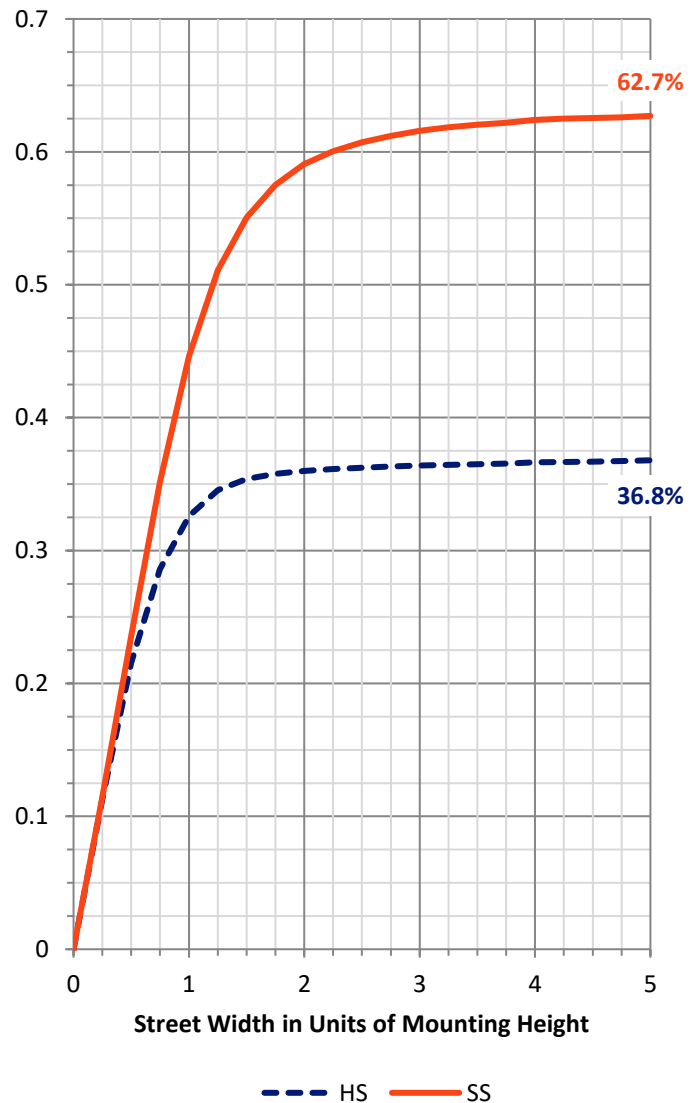
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2846.3	0.0	2846.3
	% Fixture	37.2	0.0	37.2
<b>Street Side</b>	Lumens	4798.2	0.0	4798.2
	% Fixture	62.8	0.0	62.8
<b>Total</b>	Lumens	7644.5	0.0	7644.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	0.9
10°-20°	253.0	3.3
20°-30°	501.3	6.6
30°-40°	859.4	11.2
40°-50°	1291.0	16.9
50°-60°	1793.7	23.5
60°-70°	2046.3	26.8
70°-80°	704.9	9.2
80°-90°	122.9	1.6
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°	7644.5	100.0
0°-180°	7644.5	100.0

**Coefficient of Utilization**



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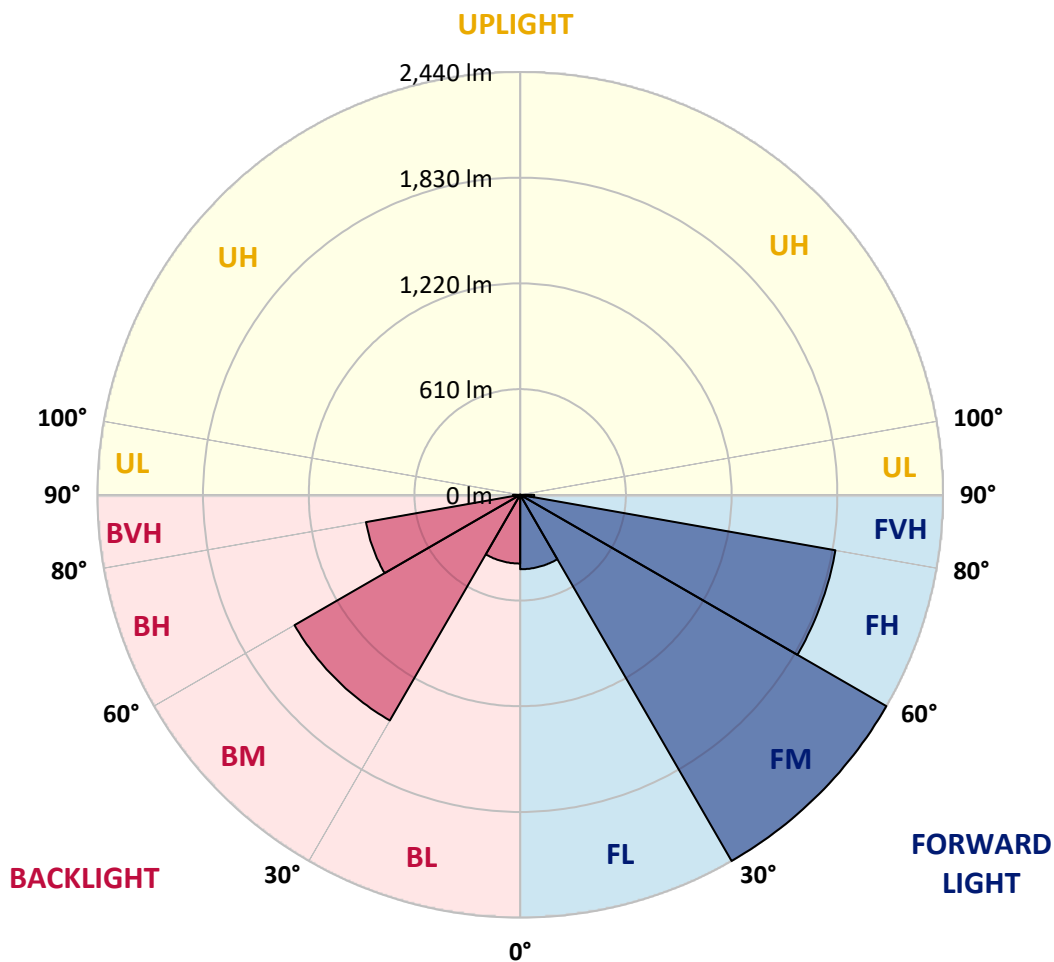
CATALOG NUMBER: VST-F03-LED-E-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.5	5.6			
FM	(30°-60°)	2440.3	31.9			
FH	(60°-80°)	1847.6	24.2			G2/5000
FVH	(80°-90°)	80.9	1.1			G1/100
BL	(0°-30°)	396.9	5.2	B1/500		
BM	(30°-60°)	1503.8	19.7	B2/2500		
BH	(60°-80°)	903.6	11.8	B2/1000		G2/1000
BVH	(80°-90°)	42.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	749.9	750.4	749.9	748.4	747.9	743.5	738.5	736.0	735.5	733.6	734.0
5°	796.4	795.0	793.0	790.5	788.0	780.6	772.2	767.8	766.3	764.8	762.8
7.5°	838.1	839.0	838.1	834.6	828.2	818.8	807.8	800.9	800.4	799.0	797.5
10°	891.5	894.1	888.1	882.2	873.2	858.9	846.5	837.6	836.1	834.1	833.1
12.5°	949.5	950.0	948.1	934.7	919.8	900.0	882.2	873.2	871.3	868.8	867.8
15°	1011.4	1011.9	1001.0	988.1	965.3	941.6	916.8	906.9	904.4	904.9	901.0
17.5°	1060.4	1061.5	1051.1	1034.7	1007.5	979.3	952.5	944.6	943.1	943.6	941.6
20°	1081.7	1083.2	1076.8	1064.5	1038.7	1013.9	994.6	989.6	989.2	988.1	992.1
22.5°	1080.8	1081.3	1078.8	1073.8	1058.5	1044.1	1041.7	1044.6	1044.1	1045.1	1048.6
25°	1071.8	1073.3	1072.9	1074.8	1072.4	1077.8	1089.2	1099.6	1101.1	1103.0	1109.5
27.5°	1094.6	1097.6	1094.2	1096.1	1100.1	1118.4	1141.7	1157.6	1160.5	1166.0	1171.4
30°	1183.8	1179.8	1175.4	1170.4	1172.9	1184.3	1210.6	1224.4	1225.9	1229.9	1237.3
32.5°	1316.0	1311.6	1307.6	1299.7	1297.7	1292.8	1301.7	1305.2	1304.6	1308.6	1310.6
35°	1465.1	1465.6	1464.7	1470.6	1475.5	1450.3	1419.1	1410.7	1414.1	1409.6	1410.7
37.5°	1592.5	1593.9	1620.2	1652.9	1662.3	1646.4	1578.1	1544.4	1533.0	1531.5	1520.1
40°	1733.6	1733.6	1773.2	1813.3	1839.6	1859.4	1778.2	1718.8	1694.5	1687.6	1659.3
42.5°	1888.6	1880.7	1916.9	1961.0	2009.5	2054.6	2012.5	1945.6	1910.9	1898.5	1849.0
45°	2015.9	2011.0	2028.8	2069.9	2148.7	2236.9	2242.8	2208.6	2187.8	2162.0	2116.5
47.5°	2094.2	2091.7	2102.1	2146.7	2245.3	2387.9	2467.7	2485.0	2472.6	2452.8	2408.7
50°	2124.9	2121.4	2128.9	2178.4	2288.9	2477.1	2653.4	2735.1	2741.1	2745.5	2731.7
52.5°	2114.0	2109.5	2124.9	2166.5	2281.4	2508.3	2798.5	2955.5	2981.8	3004.1	3049.7
55°	2009.5	2002.6	2044.1	2122.4	2249.2	2496.9	2904.5	3167.5	3223.0	3282.5	3383.5
57.5°	1849.5	1843.6	1903.5	2011.0	2192.3	2465.7	2975.9	3435.5	3560.3	3667.3	3954.1
60°	1695.5	1690.5	1725.7	1829.7	2007.5	2313.6	2887.7	3525.7	3735.2	3966.0	4489.6
62.5°	1420.1	1406.7	1453.7	1541.4	1653.8	1913.9	2502.8	3325.0	3648.0	3987.3	4697.1
65°	872.8	892.1	932.7	1029.8	1214.0	1337.8	1838.1	2690.0	3116.0	3541.5	4462.3
67.5°	554.3	559.7	589.9	657.3	799.9	924.2	1114.0	1688.0	2016.4	2435.0	3503.3
70°	475.0	478.5	504.2	574.6	673.1	826.2	843.0	881.6	999.5	1266.0	2059.5
72.5°	374.5	380.4	400.7	461.6	580.5	745.0	1040.6	696.9	673.1	695.4	1005.0
75°	222.9	229.8	246.7	279.8	373.0	569.6	1090.2	810.8	755.9	712.7	693.4
77.5°	117.9	112.9	124.3	143.6	191.7	303.6	819.2	993.6	955.0	903.5	794.0
80°	58.4	60.4	63.9	67.9	85.7	123.4	409.6	1027.8	1139.2	1188.8	1091.7
82.5°	23.3	26.3	37.1	39.6	47.0	52.5	131.8	569.6	815.8	1106.5	1444.9
85°	11.9	11.4	19.8	23.8	27.7	24.8	46.6	212.5	382.4	595.9	965.3
87.5°	1.5	2.0	4.4	5.9	8.4	7.9	13.4	46.1	73.3	104.0	146.1
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	731.6	731.1	731.1	729.1	729.1	729.6	728.1	727.1	727.1	727.6	725.6
5°	761.3	759.8	759.8	757.9	755.3	755.3	753.4	752.9	751.9	749.9	748.4
7.5°	796.0	794.5	792.0	790.5	789.5	788.0	785.6	784.6	782.6	780.6	778.6
10°	831.7	829.7	828.7	826.2	825.2	822.2	820.7	821.2	817.3	815.8	816.3
12.5°	867.3	865.3	861.8	860.9	860.3	857.4	855.9	854.9	851.9	851.5	850.0
15°	899.0	900.0	898.5	896.0	894.1	893.5	892.1	891.1	889.1	887.1	885.1
17.5°	940.1	941.6	939.6	936.1	936.1	935.6	936.1	935.6	932.2	933.7	932.7
20°	992.6	993.6	988.6	990.1	991.1	990.6	992.1	993.6	992.6	992.6	994.1
22.5°	1053.1	1054.5	1051.6	1053.5	1056.5	1054.0	1058.5	1058.0	1059.0	1060.4	1061.0
25°	1115.0	1117.9	1115.5	1120.9	1118.9	1120.9	1126.3	1124.9	1127.3	1131.3	1132.8
27.5°	1176.8	1178.8	1179.4	1182.8	1186.3	1189.3	1196.2	1196.2	1198.1	1205.1	1205.1
30°	1241.8	1243.7	1245.7	1250.7	1252.7	1258.1	1265.0	1267.0	1266.0	1276.0	1278.9
32.5°	1316.5	1318.5	1322.0	1327.9	1330.4	1335.8	1335.8	1341.3	1345.3	1353.7	1354.2
35°	1416.1	1417.6	1416.1	1415.6	1419.1	1426.5	1427.0	1434.9	1438.4	1446.8	1449.3
37.5°	1515.7	1515.2	1508.7	1501.8	1502.3	1499.3	1497.4	1500.8	1502.3	1502.8	1508.2
40°	1649.9	1637.0	1627.1	1609.8	1601.8	1589.5	1582.0	1581.5	1573.6	1572.6	1574.1
42.5°	1825.7	1810.9	1787.6	1758.4	1736.1	1713.3	1696.4	1686.5	1669.2	1660.3	1652.9
45°	2071.4	2034.8	2007.0	1972.3	1929.2	1889.6	1848.0	1829.2	1796.0	1775.7	1752.9
47.5°	2371.6	2335.4	2292.8	2257.1	2200.7	2145.7	2088.7	2038.7	1980.8	1934.7	1897.1
50°	2697.5	2676.2	2645.5	2612.3	2539.5	2503.3	2431.5	2363.6	2301.2	2219.0	2147.2
52.5°	3031.8	3044.2	3037.3	3025.4	2979.3	2965.4	2903.5	2820.8	2757.9	2701.4	2576.6
55°	3443.9	3458.8	3488.5	3505.9	3500.4	3535.6	3520.2	3455.8	3430.6	3404.3	3315.7
57.5°	4074.5	4180.4	4293.9	4393.4	4416.7	4541.5	4514.8	4579.2	4624.7	4592.0	4563.4
60°	4746.6	4960.6	5153.3	5354.8	5518.8	5641.6	5804.1	5913.5	5982.4	6106.3	6116.2
62.5°	5017.6	5308.3	5553.0	5786.8	5981.4	6151.8	6298.4	6449.5	6573.3	6685.3	6766.0
65°	4868.9	5172.6	5469.2	5706.5	5893.7	6040.4	6199.9	6319.7	6441.6	6513.4	6598.1
67.5°	4047.7	4449.9	4814.9	5082.4	5338.5	5487.6	5676.3	5794.2	5923.5	5999.3	6053.8
70°	2639.0	3162.6	3661.4	4067.0	4412.8	4586.6	4814.5	4975.4	5131.0	5134.9	5225.6
72.5°	1424.0	1861.9	2279.5	2694.0	3088.3	3319.6	3544.5	3740.1	3894.7	3828.8	3919.0
75°	793.0	998.0	1226.4	1475.5	1715.8	1848.0	2015.9	2016.9	2096.6	1971.4	2003.0
77.5°	762.8	753.4	756.8	763.8	775.7	750.4	749.9	734.6	710.8	667.7	675.1
80°	1002.0	882.2	796.0	660.8	532.0	433.9	406.7	413.1	432.4	471.1	520.1
82.5°	1448.8	1347.8	1203.1	990.1	777.1	599.3	492.4	436.9	434.4	473.0	547.3
85°	1055.0	1115.9	1106.5	923.8	761.8	618.7	450.2	380.4	315.0	299.6	325.9
87.5°	155.5	128.8	145.1	121.4	88.1	68.3	59.9	48.1	46.1	47.0	51.5
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	726.1	724.1	722.2	723.7	722.2	721.7	720.2	719.2	718.7	718.7	718.7
5°	748.4	745.9	744.5	743.9	742.5	741.0	740.5	738.0	737.5	737.5	736.0
7.5°	778.6	776.6	774.2	772.7	771.7	769.2	766.7	766.3	765.8	763.8	762.3
10°	813.8	810.8	807.8	807.8	805.9	805.4	802.9	799.4	799.0	796.0	795.0
12.5°	847.0	846.0	842.5	841.6	840.1	838.6	837.1	835.6	834.1	831.7	832.6
15°	886.6	884.2	881.2	881.6	881.2	879.2	877.2	875.7	874.7	873.7	873.7
17.5°	934.1	933.2	932.7	930.2	928.2	929.7	929.7	929.7	927.2	927.7	928.2
20°	994.6	995.6	994.6	992.6	992.1	993.6	990.1	995.6	992.6	990.6	991.6
22.5°	1061.5	1064.9	1061.0	1061.5	1063.9	1064.9	1061.5	1065.9	1064.5	1061.5	1063.9
25°	1134.3	1136.8	1134.8	1134.3	1135.7	1139.2	1138.7	1138.3	1141.7	1138.7	1140.2
27.5°	1209.1	1210.6	1211.5	1213.0	1214.0	1213.5	1215.5	1215.5	1217.5	1214.0	1215.5
30°	1283.3	1283.3	1285.3	1287.3	1287.3	1287.3	1291.3	1291.8	1288.8	1289.8	1286.3
32.5°	1362.6	1363.1	1365.1	1365.1	1369.1	1369.6	1374.0	1368.1	1374.0	1369.1	1370.0
35°	1455.7	1462.1	1463.2	1468.1	1472.1	1473.5	1473.5	1474.1	1479.5	1475.5	1477.0
37.5°	1510.2	1511.7	1515.7	1518.1	1518.1	1520.1	1521.6	1520.1	1521.6	1521.1	1522.6
40°	1574.6	1573.1	1577.6	1578.5	1576.6	1579.1	1578.5	1577.1	1581.1	1578.1	1580.0
42.5°	1652.9	1644.4	1643.9	1647.9	1643.9	1645.9	1645.4	1642.0	1646.9	1648.4	1646.9
45°	1736.6	1732.1	1723.2	1723.2	1719.2	1717.7	1718.2	1717.7	1718.2	1724.2	1726.2
47.5°	1872.8	1845.5	1830.2	1815.8	1804.0	1803.4	1798.0	1801.0	1804.9	1814.8	1823.8
50°	2101.1	2038.2	1999.6	1963.9	1938.2	1929.2	1918.9	1917.8	1921.3	1932.7	1948.1
52.5°	2508.3	2421.1	2338.9	2262.6	2196.2	2145.2	2119.9	2106.6	2101.6	2113.0	2127.9
55°	3253.2	3088.8	2972.9	2895.6	2730.7	2660.8	2571.2	2530.1	2489.9	2493.9	2519.2
57.5°	4526.2	4437.5	4340.5	4205.2	4104.2	3982.3	3758.5	3633.7	3639.1	3668.3	3577.1
60°	6194.4	6104.8	6064.6	5941.8	5871.5	5822.4	5703.5	5496.5	5423.2	5409.4	5241.9
62.5°	6827.9	6849.2	6880.9	6915.6	6913.6	6934.9	6830.9	6763.5	6678.8	6568.9	6403.4
65°	6662.5	6716.5	6780.8	6874.0	6980.0	7058.2	7124.1	7116.2	7036.9	6890.3	6715.5
67.5°	6102.3	6155.8	6202.8	6327.7	6501.5	6660.5	6801.2	6896.8	6843.8	6722.4	6518.3
70°	5260.3	5298.9	5328.6	5437.1	5627.8	5821.9	6005.7	6166.2	6149.8	6002.7	5839.7
72.5°	3811.4	3905.0	3955.6	3948.2	4066.0	4283.5	4309.3	4446.4	4484.6	4326.1	4066.6
75°	1856.9	1858.4	1800.0	1780.7	1786.6	1824.2	1752.4	1756.9	1732.1	1619.7	1527.1
77.5°	648.8	631.0	588.4	537.9	465.6	397.7	328.9	299.2	289.3	260.0	239.8
80°	559.2	585.5	577.0	535.4	459.2	366.1	273.4	202.6	172.9	162.5	152.6
82.5°	635.0	736.0	800.4	797.0	692.5	520.1	324.4	186.2	132.7	116.4	107.0
85°	354.2	380.9	388.3	353.6	293.7	200.6	112.0	78.8	66.8	60.9	55.0
87.5°	56.5	51.5	50.5	44.1	41.6	38.2	33.7	31.7	29.2	27.7	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: P159315

CATALOG NUMBER: VST-F03-LED-E-U-T2

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	718.2	717.7	716.2	714.7	713.8	713.3	712.7	711.8	711.3	710.8	709.8
5°	735.1	734.0	731.6	729.1	728.1	726.6	725.2	724.1	723.2	722.6	720.7
7.5°	761.3	760.3	757.3	755.3	754.9	750.9	750.4	748.9	746.5	745.9	743.0
10°	793.0	792.5	790.0	788.5	787.6	785.6	782.6	780.1	777.7	777.7	775.7
12.5°	829.7	827.7	829.1	825.7	824.7	822.7	821.2	820.7	817.7	815.3	814.8
15°	872.8	870.2	870.2	869.3	868.3	866.3	865.8	866.3	863.3	864.3	861.4
17.5°	926.2	927.2	926.8	926.8	924.2	924.2	920.3	925.3	921.8	924.2	923.3
20°	993.1	993.6	992.6	994.1	995.1	994.6	994.1	993.6	995.1	997.1	995.6
22.5°	1064.5	1064.5	1063.9	1069.4	1063.4	1067.9	1069.4	1066.4	1074.4	1073.3	1074.8
25°	1141.7	1141.7	1145.6	1150.1	1151.1	1147.6	1149.6	1147.1	1152.1	1156.1	1157.0
27.5°	1213.5	1220.0	1222.9	1220.0	1222.4	1227.9	1227.4	1227.4	1230.8	1229.9	1239.3
30°	1287.3	1291.3	1295.2	1293.2	1294.3	1301.2	1301.7	1302.2	1306.6	1313.1	1320.0
32.5°	1371.5	1375.5	1373.5	1379.9	1379.5	1387.9	1389.4	1390.9	1404.7	1402.3	1416.6
35°	1475.0	1479.0	1477.0	1484.0	1483.0	1486.0	1491.4	1497.4	1499.8	1514.2	1525.6
37.5°	1523.6	1523.6	1528.0	1536.0	1538.9	1543.9	1552.3	1559.8	1572.1	1587.5	1605.3
40°	1582.0	1583.5	1589.5	1597.9	1603.3	1614.7	1630.1	1640.5	1659.3	1676.2	1696.9
42.5°	1652.9	1659.3	1666.3	1677.7	1689.5	1707.4	1729.1	1742.5	1767.3	1789.1	1814.8
45°	1735.6	1742.0	1758.4	1779.2	1796.5	1816.3	1834.1	1865.9	1888.1	1910.9	1933.2
47.5°	1835.6	1854.5	1867.9	1892.6	1913.9	1940.2	1962.4	1992.2	2016.4	2044.1	2063.0
50°	1963.9	1987.2	2004.5	2036.8	2057.5	2086.7	2115.0	2137.3	2162.0	2189.3	2204.6
52.5°	2148.2	2171.9	2193.7	2233.9	2259.6	2279.5	2317.1	2344.8	2367.6	2387.4	2404.3
55°	2547.4	2540.5	2600.9	2678.6	2687.6	2759.4	2772.8	2796.1	2838.2	2844.1	2891.2
57.5°	3688.1	3652.4	3740.1	3854.0	3834.2	3798.1	3949.1	3958.6	3937.3	3994.2	3929.8
60°	5266.7	5204.3	5228.0	5259.2	5214.2	5192.9	5200.3	5221.6	5200.8	5178.0	5115.6
62.5°	6320.7	6224.6	6155.8	6097.8	6024.5	5971.5	5912.1	5838.8	5819.0	5735.8	5665.9
65°	6545.6	6396.0	6287.0	6177.5	6076.5	5982.9	5893.3	5830.4	5747.2	5648.6	5575.7
67.5°	6298.4	6113.2	5953.7	5794.7	5680.3	5542.6	5475.2	5372.7	5270.2	5157.2	5090.3
70°	5580.2	5387.0	5186.5	5030.9	4875.4	4705.0	4671.8	4550.5	4491.5	4337.5	4310.7
72.5°	3851.6	3722.8	3633.1	3440.9	3346.3	3259.2	3231.4	3119.0	3130.9	2962.0	3023.4
75°	1369.6	1351.2	1325.0	1216.5	1197.2	1163.5	1154.6	1146.7	1226.9	1115.5	1196.2
77.5°	235.3	233.8	220.4	214.0	226.4	218.5	220.4	216.5	239.8	243.2	237.8
80°	146.1	142.1	137.7	134.7	135.2	132.2	132.7	133.7	135.2	134.7	136.2
82.5°	100.1	96.6	94.6	92.6	95.6	96.6	99.1	101.5	105.5	108.0	110.9
85°	54.5	50.0	50.0	49.6	53.5	56.5	60.4	65.4	72.3	78.2	84.7
87.5°	27.7	26.8	27.2	28.3	31.7	34.2	39.1	43.6	49.6	56.0	61.9
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: P159315

CATALOG NUMBER: VST-F03-LED-E-U-T2

**CANDELA DISTRIBUTION (continued):**

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3	711.3
2.5°	709.3	709.3	708.8	708.8	708.3	707.8	707.3	705.8	700.4	695.4	692.0
5°	720.2	718.7	718.2	716.7	716.2	715.3	713.8	712.3	702.4	693.4	687.0
7.5°	742.5	740.5	739.5	738.0	736.6	734.6	732.6	731.1	719.2	708.8	700.9
10°	771.7	770.7	770.2	768.2	768.2	765.2	764.8	761.3	748.4	739.0	732.1
12.5°	812.3	810.4	809.8	807.4	808.4	807.4	806.4	804.4	795.0	784.1	774.7
15°	862.9	862.9	860.3	858.4	858.9	857.9	859.9	857.4	851.5	841.6	826.2
17.5°	923.8	922.8	923.8	922.3	923.3	924.2	921.8	922.3	919.3	906.9	884.2
20°	994.6	993.1	999.1	996.6	1002.0	997.1	998.0	999.5	999.5	983.2	952.5
22.5°	1075.8	1074.8	1074.8	1079.8	1081.7	1082.3	1084.3	1085.8	1089.7	1068.9	1019.9
25°	1157.0	1160.5	1161.0	1167.5	1170.4	1170.4	1171.9	1177.4	1189.3	1160.5	1097.1
27.5°	1239.8	1248.2	1250.2	1254.7	1259.1	1263.5	1267.0	1271.0	1290.3	1259.1	1176.4
30°	1322.5	1331.9	1338.8	1343.8	1349.2	1360.1	1362.1	1370.0	1402.3	1364.1	1251.7
32.5°	1419.6	1432.9	1441.9	1448.3	1456.7	1467.1	1473.1	1483.0	1514.2	1451.8	1306.6
35°	1535.5	1543.4	1556.3	1567.2	1572.1	1589.9	1599.4	1601.8	1625.6	1527.5	1347.2
37.5°	1615.7	1629.1	1651.4	1666.7	1675.7	1685.6	1701.4	1711.8	1734.6	1596.4	1367.6
40°	1717.7	1738.1	1755.9	1778.7	1793.0	1800.5	1816.3	1824.7	1827.7	1655.3	1361.1
42.5°	1842.1	1860.4	1884.2	1902.5	1913.4	1921.8	1934.7	1938.2	1899.5	1683.1	1326.5
45°	1959.0	1987.2	2007.5	2020.9	2028.8	2033.3	2041.2	2041.7	1959.0	1669.2	1267.0
47.5°	2084.8	2105.1	2123.9	2133.3	2132.3	2133.3	2130.4	2128.4	1988.7	1621.1	1190.8
50°	2224.0	2237.3	2245.3	2249.7	2252.2	2242.8	2229.4	2220.5	1991.2	1552.8	1113.5
52.5°	2410.7	2427.5	2426.0	2425.6	2405.8	2396.8	2361.2	2342.8	1976.8	1472.6	1026.3
55°	2883.7	2867.4	2835.2	2851.0	2770.3	2728.2	2672.7	2621.2	1995.6	1396.3	925.3
57.5°	3955.6	3962.0	3870.4	3821.3	3685.1	3514.7	3377.6	3244.3	2165.0	1349.8	793.5
60°	5074.0	4989.8	4873.4	4696.1	4520.8	4267.6	4023.4	3792.6	2333.9	1301.2	637.5
62.5°	5562.4	5442.5	5266.7	5037.4	4762.0	4452.4	4148.3	3866.9	2252.2	1144.2	463.6
65°	5463.3	5280.1	5085.9	4817.5	4482.6	4143.3	3788.2	3500.9	1884.2	853.4	285.8
67.5°	4945.2	4789.7	4584.7	4266.1	3908.0	3554.9	3229.4	2907.5	1399.7	532.0	160.0
70°	4174.0	4022.0	3813.9	3488.0	3130.4	2792.6	2447.8	2185.3	892.1	256.6	115.4
72.5°	2895.6	2772.3	2625.2	2392.9	2079.4	1772.2	1538.9	1337.3	494.3	136.2	105.5
75°	1175.9	1176.4	1149.6	1051.6	888.6	766.3	653.3	554.3	206.5	115.9	104.0
77.5°	266.5	271.0	296.2	280.9	253.1	236.8	212.0	187.2	125.8	119.4	105.0
80°	134.7	135.2	133.7	134.2	132.7	133.3	131.3	129.8	117.9	122.8	105.0
82.5°	112.4	114.9	114.4	114.4	114.9	114.9	114.9	114.4	122.3	129.3	101.5
85°	89.2	94.1	98.1	102.1	106.5	109.4	110.9	112.4	118.9	127.3	92.1
87.5°	67.4	73.3	78.2	82.2	89.2	89.2	94.1	97.6	97.6	99.5	48.5
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: P159315

CATALOG NUMBER: VST-F03-LED-E-U-T2

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	687.0	685.0	683.0	682.0	680.0
5°	682.0	678.1	675.6	675.6	673.6
7.5°	696.4	694.9	691.4	689.5	691.4
10°	727.1	724.6	720.7	717.7	719.2
12.5°	768.2	758.3	750.4	746.9	744.5
15°	810.8	791.0	775.1	766.3	763.8
17.5°	856.4	821.7	797.9	784.6	782.1
20°	902.9	859.9	826.2	808.9	808.4
22.5°	958.9	901.5	858.4	835.6	834.1
25°	1017.9	938.6	881.6	852.4	849.5
27.5°	1068.9	968.3	896.0	861.4	858.4
30°	1111.5	990.6	907.9	867.8	863.8
32.5°	1142.2	1003.5	912.8	869.8	865.3
35°	1152.1	998.6	899.0	851.9	847.0
37.5°	1138.7	966.4	860.3	808.4	802.4
40°	1098.6	909.9	797.5	743.9	736.6
42.5°	1037.2	840.5	721.7	670.7	661.3
45°	961.4	762.3	646.4	589.4	584.9
47.5°	882.2	680.0	561.7	510.2	504.7
50°	796.4	584.9	479.0	423.0	423.0
52.5°	694.4	492.4	382.9	340.8	337.3
55°	577.0	387.8	305.1	272.9	268.4
57.5°	450.7	298.2	243.7	224.9	219.9
60°	331.4	223.9	196.1	185.8	183.8
62.5°	224.9	170.4	158.0	153.5	153.1
65°	152.0	132.7	129.3	127.8	128.3
67.5°	116.9	110.5	109.0	108.5	108.5
70°	101.5	97.6	96.1	96.6	96.1
72.5°	95.6	90.1	90.7	91.6	91.1
75°	93.6	86.7	88.7	89.2	87.2
77.5°	92.1	82.7	87.7	89.2	83.7
80°	89.2	79.3	91.1	91.6	82.2
82.5°	81.7	70.3	91.1	84.2	74.3
85°	69.4	53.5	103.0	73.3	55.0
87.5°	44.1	31.7	69.8	50.0	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)