

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: P159323

Luminaire Tested: **VST-F04-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159323
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-F04-LED-E-U-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8602.5 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.2
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

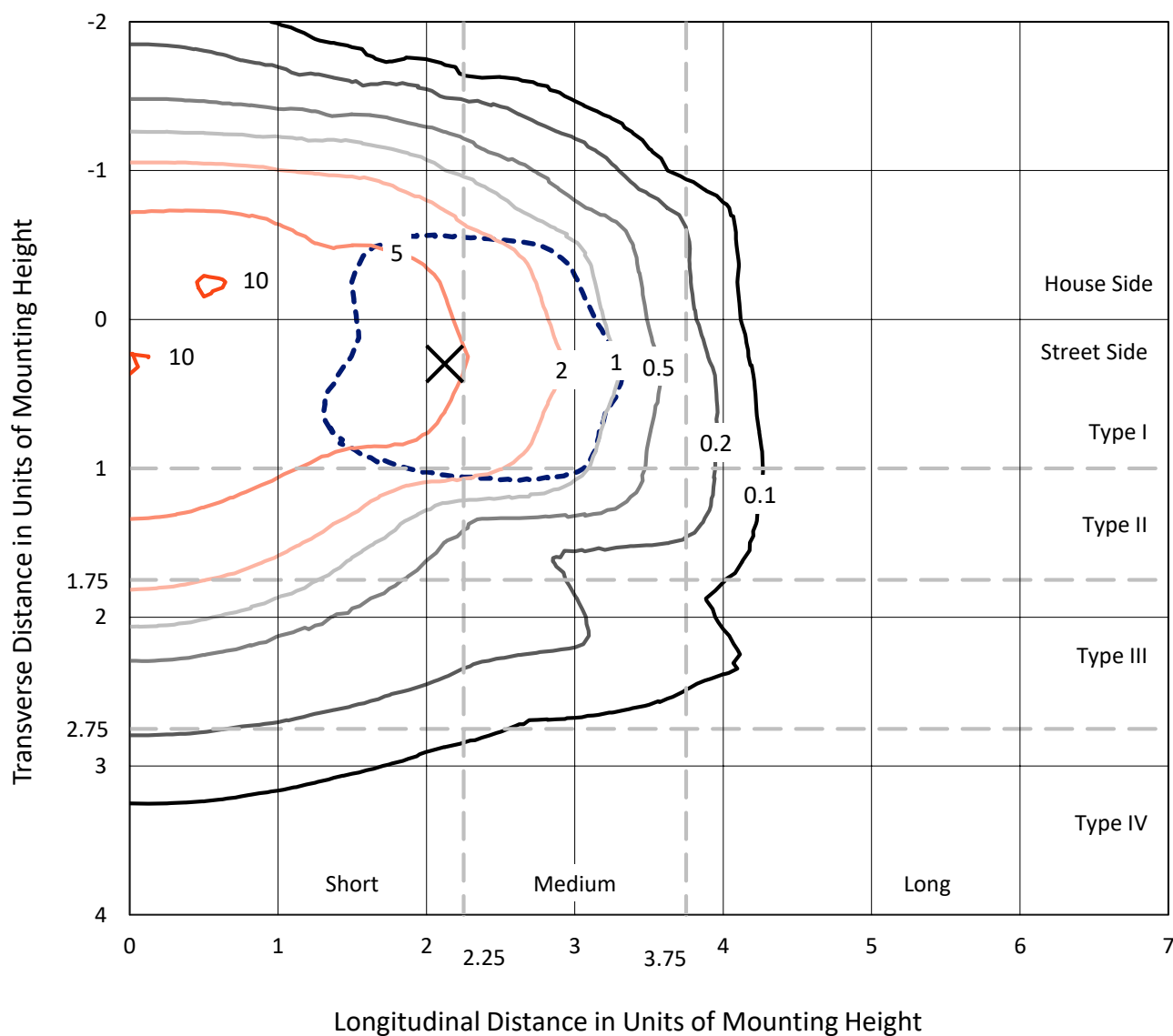


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

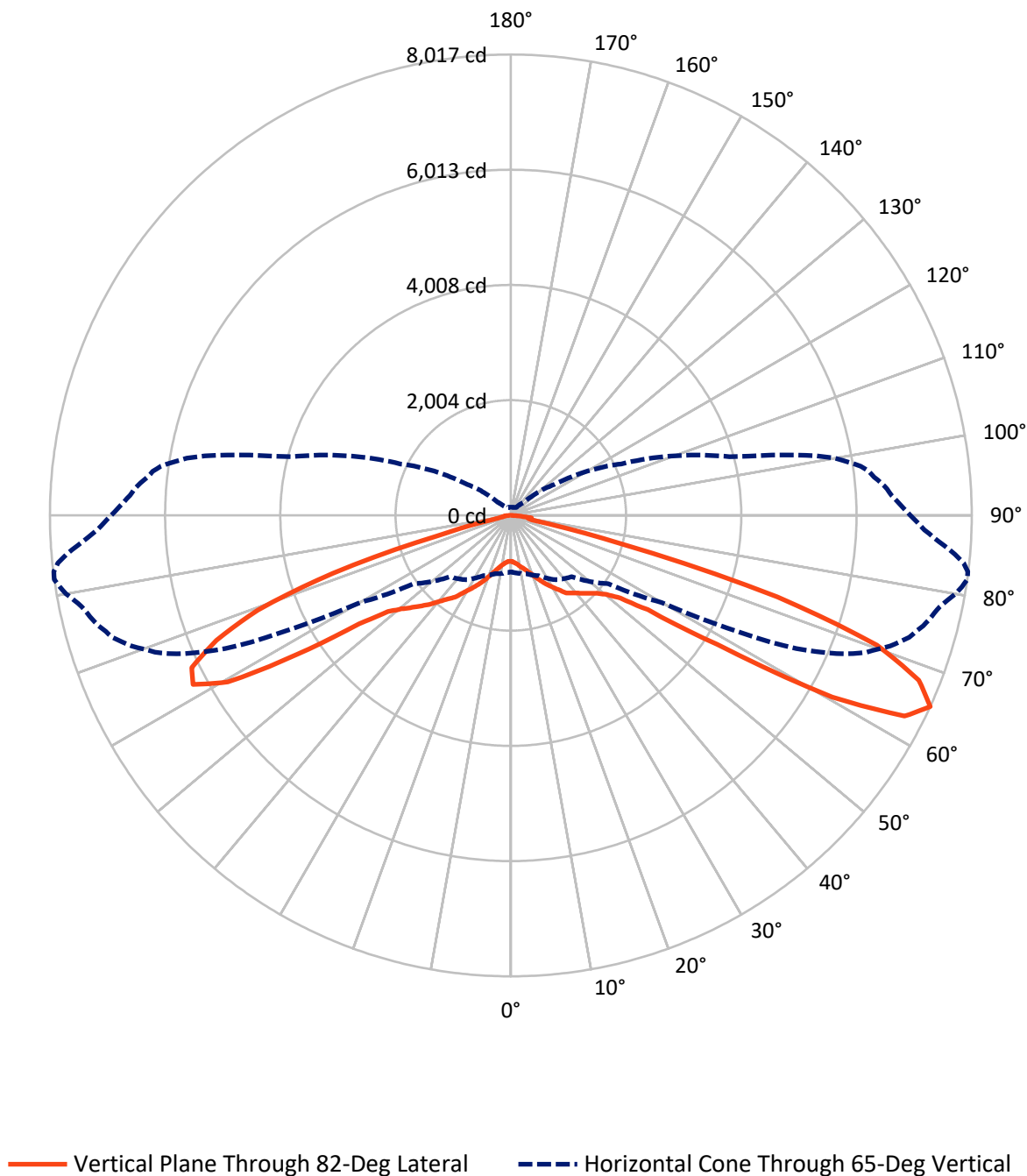


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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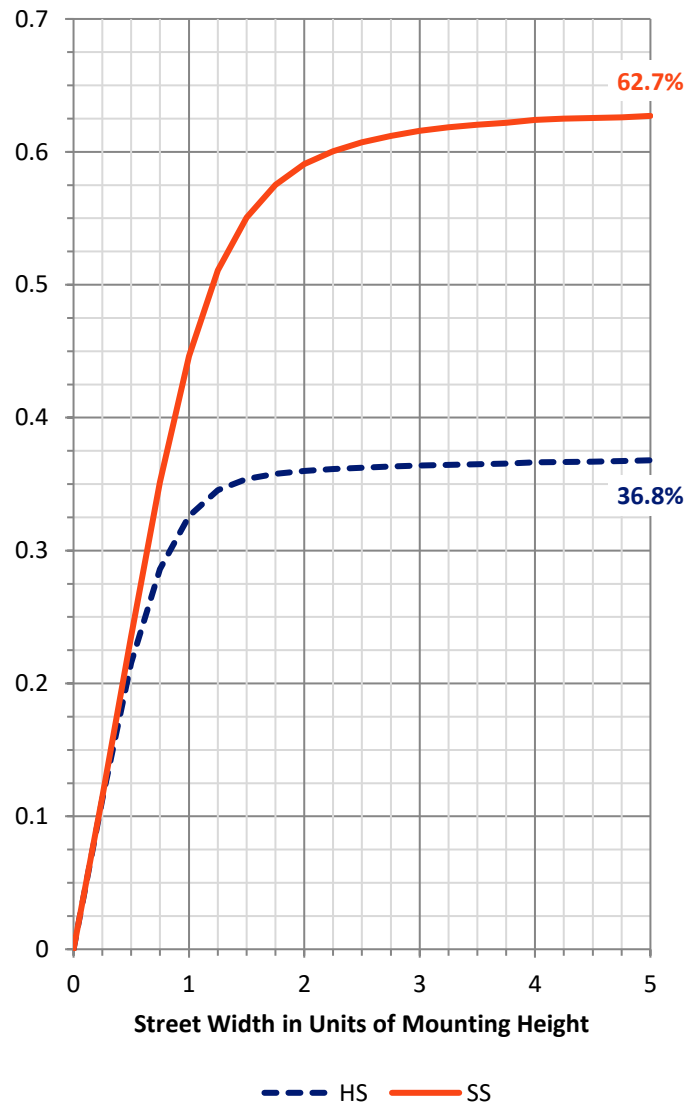
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3203.0	0.0	3203.0
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	5399.5	0.0	5399.5
	% Fixture	62.8	0.0	62.8
Total	Lumens	8602.5	0.0	8602.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	0.9
10°-20°	284.7	3.3
20°-30°	564.2	6.6
30°-40°	967.1	11.2
40°-50°	1452.8	16.9
50°-60°	2018.4	23.5
60°-70°	2302.7	26.8
70°-80°	793.3	9.2
80°-90°	138.3	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°	8602.5	100.0
0°-180°	8602.5	100.0

Coefficient of Utilization



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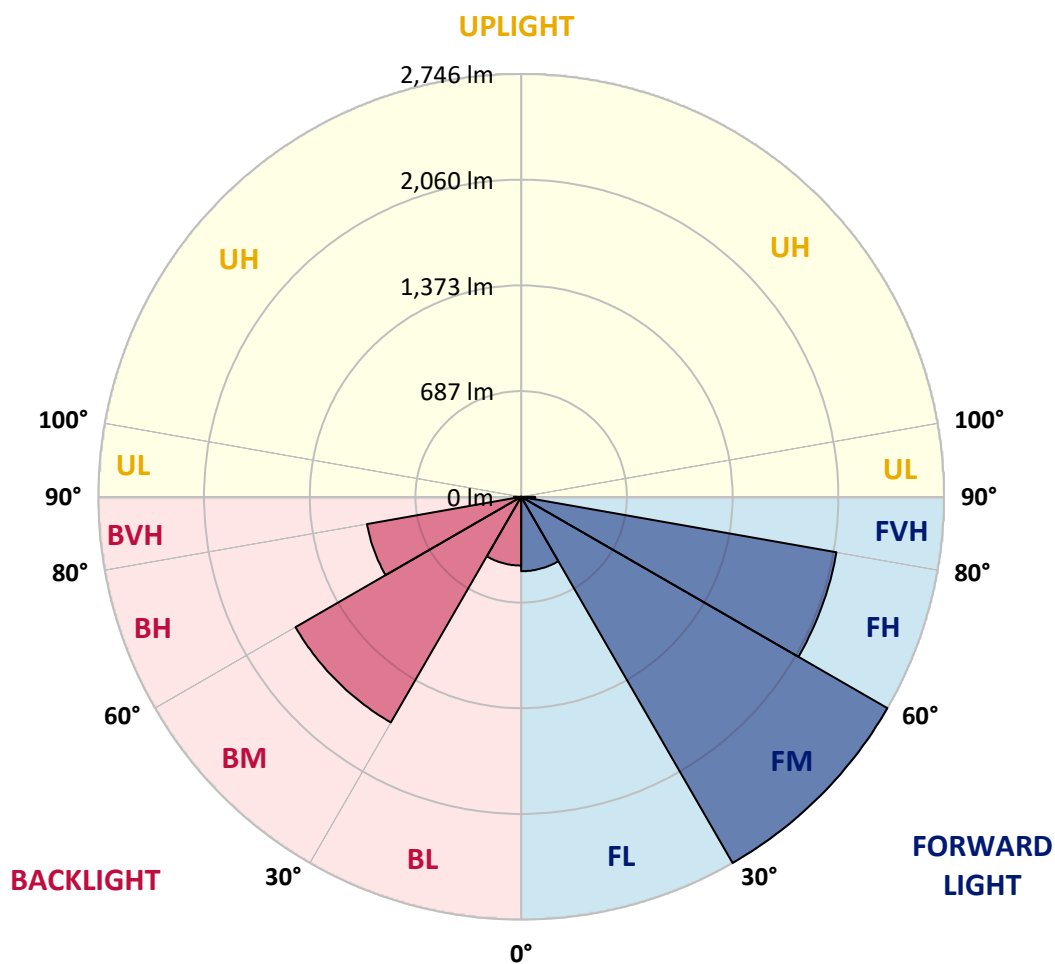
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.3	5.6			
FM	(30°-60°)	2746.1	31.9			
FH	(60°-80°)	2079.1	24.2			G2/5000
FVH	(80°-90°)	91.0	1.1			G1/100
BL	(0°-30°)	446.6	5.2	B1/500		
BM	(30°-60°)	1692.3	19.7	B2/2500		
BH	(60°-80°)	1016.9	11.8	B3/2500		G3/2500
BVH	(80°-90°)	47.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	843.9	844.4	843.9	842.2	841.7	836.6	831.1	828.3	827.7	825.5	826.0
5°	896.3	894.6	892.4	889.6	886.8	878.4	869.0	864.0	862.3	860.6	858.4
7.5°	943.1	944.2	943.1	939.2	932.0	921.4	909.1	901.3	900.7	899.1	897.4
10°	1003.3	1006.1	999.4	992.7	982.7	966.5	952.6	942.5	940.9	938.6	937.5
12.5°	1068.5	1069.1	1066.8	1051.8	1035.1	1012.8	992.7	982.7	980.4	977.7	976.5
15°	1138.2	1138.7	1126.5	1112.0	1086.4	1059.6	1031.7	1020.6	1017.8	1018.3	1013.9
17.5°	1193.4	1194.5	1182.8	1164.4	1133.7	1102.0	1071.9	1062.9	1061.3	1061.8	1059.6
20°	1217.3	1219.0	1211.8	1197.8	1168.8	1141.0	1119.2	1113.7	1113.1	1112.0	1116.4
22.5°	1216.2	1216.8	1214.0	1208.4	1191.1	1175.0	1172.2	1175.5	1175.0	1176.1	1180.0
25°	1206.2	1207.9	1207.3	1209.5	1206.7	1212.9	1225.7	1237.4	1239.1	1241.3	1248.6
27.5°	1231.8	1235.2	1231.3	1233.5	1238.0	1258.6	1284.8	1302.6	1306.0	1312.1	1318.2
30°	1332.2	1327.7	1322.7	1317.1	1319.9	1332.7	1362.3	1377.9	1379.5	1384.0	1392.4
32.5°	1481.0	1476.0	1471.5	1462.6	1460.4	1454.8	1464.8	1468.7	1468.2	1472.6	1474.8
35°	1648.8	1649.3	1648.2	1654.9	1660.5	1632.0	1596.9	1587.4	1591.3	1586.3	1587.4
37.5°	1792.0	1793.7	1823.2	1860.0	1870.6	1852.8	1775.8	1737.9	1725.1	1723.4	1710.6
40°	1950.9	1950.9	1995.5	2040.6	2070.1	2092.4	2001.0	1934.1	1906.8	1899.0	1867.3
42.5°	2125.3	2116.4	2157.1	2206.7	2261.3	2312.0	2264.7	2189.4	2150.4	2136.5	2080.7
45°	2268.6	2263.0	2283.1	2329.3	2418.0	2517.2	2523.9	2485.4	2462.0	2433.0	2381.7
47.5°	2356.6	2353.9	2365.6	2415.7	2526.6	2687.2	2776.9	2796.4	2782.5	2760.2	2710.6
50°	2391.2	2387.3	2395.7	2451.4	2575.7	2787.5	2985.9	3077.9	3084.6	3089.6	3074.0
52.5°	2378.9	2373.9	2391.2	2438.0	2567.3	2822.6	3149.2	3325.9	3355.5	3380.6	3431.8
55°	2261.3	2253.5	2300.3	2388.4	2531.1	2809.8	3268.5	3564.5	3626.9	3693.8	3807.5
57.5°	2081.3	2074.6	2142.0	2263.0	2467.0	2774.7	3348.8	3866.0	4006.5	4126.9	4449.6
60°	1907.9	1902.4	1941.9	2059.0	2259.1	2603.6	3249.6	3967.5	4203.3	4463.0	5052.2
62.5°	1598.0	1583.0	1635.9	1734.6	1861.1	2153.7	2816.5	3741.7	4105.2	4487.0	5285.7
65°	982.1	1003.9	1049.6	1158.8	1366.2	1505.5	2068.5	3027.2	3506.5	3985.3	5021.5
67.5°	623.7	629.8	663.8	739.7	900.2	1040.1	1253.6	1899.6	2269.1	2740.1	3942.4
70°	534.5	538.4	567.4	646.6	757.5	929.7	948.7	992.2	1124.8	1424.7	2317.6
72.5°	421.4	428.1	450.9	519.5	653.3	838.3	1171.1	784.2	757.5	782.6	1130.9
75°	250.8	258.6	277.6	314.9	419.7	641.0	1226.8	912.4	850.6	802.1	780.3
77.5°	132.7	127.1	139.9	161.6	215.7	341.7	921.9	1118.1	1074.6	1016.7	893.5
80°	65.8	68.0	71.9	76.4	96.4	138.8	461.0	1156.6	1282.0	1337.7	1228.5
82.5°	26.2	29.5	41.8	44.6	53.0	59.1	148.3	641.0	918.0	1245.2	1625.9
85°	13.4	12.8	22.3	26.8	31.2	27.9	52.4	239.1	430.3	670.5	1086.4
87.5°	1.7	2.2	5.0	6.7	9.5	8.9	15.0	51.8	82.5	117.1	164.4
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°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	823.3	822.7	822.7	820.5	820.5	821.0	819.4	818.2	818.2	818.8	816.6
5°	856.7	855.0	855.0	852.8	850.0	850.0	847.8	847.2	846.1	843.9	842.2
7.5°	895.7	894.1	891.3	889.6	888.5	886.8	884.0	882.9	880.7	878.4	876.2
10°	935.9	933.6	932.5	929.7	928.6	925.3	923.6	924.2	919.7	918.0	918.6
12.5°	976.0	973.8	969.9	968.7	968.2	964.8	963.2	962.1	958.7	958.2	956.5
15°	1011.7	1012.8	1011.1	1008.3	1006.1	1005.5	1003.9	1002.7	1000.5	998.3	996.1
17.5°	1057.9	1059.6	1057.4	1053.5	1053.5	1052.9	1053.5	1052.9	1049.0	1050.7	1049.6
20°	1117.0	1118.1	1112.5	1114.2	1115.3	1114.8	1116.4	1118.1	1117.0	1117.0	1118.7
22.5°	1185.0	1186.7	1183.3	1185.6	1188.9	1186.1	1191.1	1190.6	1191.7	1193.4	1193.9
25°	1254.7	1258.0	1255.2	1261.4	1259.1	1261.4	1267.5	1265.8	1268.6	1273.1	1274.7
27.5°	1324.4	1326.6	1327.1	1331.0	1334.9	1338.3	1346.1	1346.1	1348.3	1356.1	1356.1
30°	1397.4	1399.6	1401.8	1407.4	1409.6	1415.8	1423.6	1425.8	1424.7	1435.8	1439.2
32.5°	1481.5	1483.8	1487.7	1494.4	1497.1	1503.3	1503.3	1509.4	1513.9	1523.3	1523.9
35°	1593.6	1595.2	1593.6	1593.0	1596.9	1605.3	1605.8	1614.8	1618.7	1628.1	1630.9
37.5°	1705.6	1705.1	1697.8	1690.0	1690.6	1687.2	1685.0	1688.9	1690.6	1691.1	1697.2
40°	1856.7	1842.2	1831.0	1811.5	1802.6	1788.7	1780.3	1779.7	1770.8	1769.7	1771.4
42.5°	2054.5	2037.8	2011.6	1978.7	1953.6	1928.0	1909.1	1897.9	1878.4	1868.4	1860.0
45°	2331.0	2289.8	2258.5	2219.5	2171.0	2126.4	2079.6	2058.4	2021.1	1998.2	1972.6
47.5°	2668.8	2628.1	2580.2	2540.0	2476.5	2414.6	2350.5	2294.2	2229.0	2177.2	2134.8
50°	3035.5	3011.6	2977.0	2939.7	2857.7	2817.0	2736.2	2659.9	2589.6	2497.1	2416.3
52.5°	3411.8	3425.7	3417.9	3404.5	3352.7	3337.1	3267.4	3174.3	3103.5	3040.0	2899.5
55°	3875.5	3892.2	3925.7	3945.2	3939.1	3978.6	3961.4	3888.9	3860.5	3830.9	3731.2
57.5°	4585.1	4704.4	4832.0	4944.0	4970.2	5110.7	5080.6	5153.1	5204.3	5167.5	5135.2
60°	5341.5	5582.2	5799.1	6025.9	6210.4	6348.7	6531.5	6654.7	6732.1	6871.5	6882.6
62.5°	5646.3	5973.5	6248.9	6512.0	6731.0	6922.8	7087.8	7257.8	7397.1	7523.1	7613.9
65°	5479.1	5820.8	6154.7	6421.7	6632.4	6797.4	6976.8	7111.7	7248.8	7329.7	7425.0
67.5°	4555.0	5007.6	5418.4	5719.4	6007.5	6175.3	6387.7	6520.3	6665.8	6751.1	6812.4
70°	2969.8	3558.9	4120.2	4576.7	4965.8	5161.4	5417.8	5599.0	5774.0	5778.4	5880.4
72.5°	1602.5	2095.2	2565.1	3031.6	3475.3	3735.6	3988.7	4208.8	4382.7	4308.6	4410.1
75°	892.4	1123.1	1380.1	1660.5	1930.8	2079.6	2268.6	2269.7	2359.4	2218.4	2254.1
77.5°	858.4	847.8	851.7	859.5	872.9	844.4	843.9	826.6	799.9	751.4	759.7
80°	1127.6	992.7	895.7	743.6	598.6	488.3	457.6	464.9	486.6	530.1	585.3
82.5°	1630.4	1516.7	1353.9	1114.2	874.5	674.4	554.0	491.6	488.8	532.3	615.9
85°	1187.2	1255.8	1245.2	1039.5	857.3	696.2	506.7	428.1	354.5	337.2	366.8
87.5°	175.0	144.9	163.3	136.6	99.2	76.9	67.4	54.1	51.8	53.0	58.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	817.1	814.9	812.7	814.3	812.7	812.1	810.4	809.3	808.8	808.8	808.8
5°	842.2	839.4	837.8	837.2	835.5	833.9	833.3	830.5	830.0	830.0	828.3
7.5°	876.2	874.0	871.2	869.5	868.4	865.6	862.8	862.3	861.7	859.5	857.8
10°	915.8	912.4	909.1	909.1	906.9	906.3	903.5	899.6	899.1	895.7	894.6
12.5°	953.1	952.0	948.1	947.0	945.3	943.7	942.0	940.3	938.6	935.9	937.0
15°	997.7	994.9	991.6	992.2	991.6	989.4	987.1	985.5	984.3	983.2	983.2
17.5°	1051.2	1050.1	1049.6	1046.8	1044.5	1046.2	1046.2	1046.2	1043.4	1044.0	1044.5
20°	1119.2	1120.4	1119.2	1117.0	1116.4	1118.1	1114.2	1120.4	1117.0	1114.8	1115.9
22.5°	1194.5	1198.4	1193.9	1194.5	1197.3	1198.4	1194.5	1199.5	1197.8	1194.5	1197.3
25°	1276.4	1279.2	1277.0	1276.4	1278.1	1282.0	1281.4	1280.9	1284.8	1281.4	1283.1
27.5°	1360.6	1362.3	1363.4	1365.0	1366.2	1365.6	1367.8	1367.8	1370.1	1366.2	1367.8
30°	1444.2	1444.2	1446.4	1448.7	1448.7	1448.7	1453.1	1453.7	1450.3	1451.4	1447.5
32.5°	1533.4	1533.9	1536.2	1536.2	1540.6	1541.2	1546.2	1539.5	1546.2	1540.6	1541.7
35°	1638.2	1645.4	1646.5	1652.1	1656.6	1658.2	1658.2	1658.8	1664.9	1660.5	1662.1
37.5°	1699.5	1701.1	1705.6	1708.4	1708.4	1710.6	1712.3	1710.6	1712.3	1711.7	1713.4
40°	1771.9	1770.3	1775.3	1776.4	1774.2	1777.0	1776.4	1774.7	1779.2	1775.8	1778.1
42.5°	1860.0	1850.5	1850.0	1854.4	1850.0	1852.2	1851.6	1847.7	1853.3	1855.0	1853.3
45°	1954.2	1949.2	1939.2	1939.2	1934.7	1933.0	1933.6	1933.0	1933.6	1940.3	1942.5
47.5°	2107.5	2076.8	2059.6	2043.4	2030.0	2029.5	2023.3	2026.7	2031.1	2042.3	2052.3
50°	2364.4	2293.7	2250.2	2210.0	2181.1	2171.0	2159.3	2158.2	2162.1	2174.9	2192.2
52.5°	2822.6	2724.5	2632.0	2546.2	2471.5	2414.0	2385.6	2370.6	2365.0	2377.8	2394.5
55°	3660.9	3475.9	3345.4	3258.5	3072.9	2994.3	2893.4	2847.1	2802.0	2806.5	2834.9
57.5°	5093.4	4993.6	4884.4	4732.2	4618.5	4481.4	4229.5	4089.0	4095.1	4128.0	4025.5
60°	6970.7	6869.8	6824.7	6686.4	6607.3	6552.1	6418.3	6185.3	6102.8	6087.2	5898.8
62.5°	7683.6	7707.6	7743.2	7782.3	7780.0	7804.0	7686.9	7611.1	7515.8	7392.1	7205.9
65°	7497.4	7558.2	7630.6	7735.4	7854.7	7942.8	8016.9	8008.0	7918.8	7753.8	7557.1
67.5°	6867.0	6927.2	6980.2	7120.6	7316.3	7495.2	7653.5	7761.1	7701.4	7564.9	7335.2
70°	5919.5	5962.9	5996.4	6118.5	6333.0	6551.5	6758.3	6938.9	6920.5	6755.0	6571.6
72.5°	4289.1	4394.5	4451.3	4442.9	4575.6	4820.3	4849.3	5003.7	5046.6	4868.2	4576.2
75°	2089.6	2091.3	2025.5	2003.8	2010.5	2052.9	1972.0	1977.1	1949.2	1822.7	1718.4
77.5°	730.2	710.1	662.2	605.3	523.9	447.6	370.1	336.7	325.5	292.6	269.8
80°	629.3	658.8	649.4	602.5	516.7	411.9	307.7	228.0	194.5	182.8	171.7
82.5°	714.6	828.3	900.7	896.8	779.2	585.3	365.1	209.6	149.4	131.0	120.4
85°	398.5	428.6	437.0	398.0	330.5	225.7	126.0	88.6	75.2	68.6	61.9
87.5°	63.5	58.0	56.9	49.6	46.8	42.9	37.9	35.7	32.9	31.2	31.2
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	808.2	807.7	806.0	804.3	803.2	802.6	802.1	801.0	800.4	799.9	798.7
5°	827.2	826.0	823.3	820.5	819.4	817.7	816.0	814.9	813.8	813.2	811.0
7.5°	856.7	855.6	852.2	850.0	849.5	845.0	844.4	842.8	840.0	839.4	836.1
10°	892.4	891.8	889.0	887.4	886.2	884.0	880.7	877.9	875.1	875.1	872.9
12.5°	933.6	931.4	933.1	929.2	928.1	925.8	924.2	923.6	920.2	917.5	916.9
15°	982.1	979.3	979.3	978.2	977.1	974.9	974.3	974.9	971.5	972.6	969.3
17.5°	1042.3	1043.4	1042.9	1042.9	1040.1	1040.1	1035.6	1041.2	1037.3	1040.1	1039.0
20°	1117.6	1118.1	1117.0	1118.7	1119.8	1119.2	1118.7	1118.1	1119.8	1122.0	1120.4
22.5°	1197.8	1197.8	1197.3	1203.4	1196.7	1201.7	1203.4	1200.1	1209.0	1207.9	1209.5
25°	1284.8	1284.8	1289.2	1294.3	1295.4	1291.5	1293.7	1290.9	1296.5	1300.9	1302.1
27.5°	1365.6	1372.8	1376.2	1372.8	1375.6	1381.8	1381.2	1381.2	1385.1	1384.0	1394.6
30°	1448.7	1453.1	1457.6	1455.3	1456.5	1464.3	1464.8	1465.4	1470.4	1477.6	1485.4
32.5°	1543.4	1547.9	1545.6	1552.9	1552.3	1561.8	1563.5	1565.1	1580.8	1578.0	1594.1
35°	1659.9	1664.4	1662.1	1669.9	1668.8	1672.2	1678.3	1685.0	1687.8	1703.9	1716.8
37.5°	1714.5	1714.5	1719.5	1728.5	1731.8	1737.4	1746.9	1755.2	1769.2	1786.4	1806.5
40°	1780.3	1782.0	1788.7	1798.1	1804.3	1817.1	1834.4	1846.1	1867.3	1886.2	1909.6
42.5°	1860.0	1867.3	1875.1	1887.9	1901.3	1921.3	1945.8	1960.9	1988.8	2013.3	2042.3
45°	1953.1	1960.3	1978.7	2002.1	2021.6	2043.9	2064.0	2099.7	2124.8	2150.4	2175.5
47.5°	2065.7	2086.9	2101.9	2129.8	2153.7	2183.3	2208.4	2241.8	2269.1	2300.3	2321.5
50°	2210.0	2236.2	2255.8	2292.0	2315.4	2348.3	2380.0	2405.1	2433.0	2463.7	2480.9
52.5°	2417.4	2444.1	2468.7	2513.8	2542.8	2565.1	2607.5	2638.7	2664.3	2686.6	2705.6
55°	2866.6	2858.8	2926.8	3014.4	3024.4	3105.2	3120.3	3146.5	3193.8	3200.5	3253.5
57.5°	4150.3	4110.2	4208.8	4337.0	4314.7	4274.1	4444.1	4454.6	4430.7	4494.8	4422.3
60°	5926.7	5856.5	5883.2	5918.4	5867.6	5843.7	5852.0	5876.0	5852.6	5826.9	5756.7
62.5°	7112.8	7004.7	6927.2	6862.0	6779.5	6719.9	6653.0	6570.5	6548.2	6454.6	6376.0
65°	7365.9	7197.6	7074.9	6951.7	6838.0	6732.7	6631.8	6561.0	6467.4	6356.5	6274.5
67.5°	7087.8	6879.3	6699.8	6520.9	6392.1	6237.2	6161.4	6046.0	5930.6	5803.5	5728.3
70°	6279.5	6062.2	5836.4	5661.4	5486.4	5294.6	5257.3	5120.7	5054.4	4881.1	4851.0
72.5°	4334.3	4189.3	4088.4	3872.2	3765.7	3667.6	3636.4	3509.9	3523.3	3333.2	3402.3
75°	1541.2	1520.6	1491.0	1368.9	1347.2	1309.3	1299.3	1290.4	1380.7	1255.2	1346.1
77.5°	264.8	263.1	248.0	240.8	254.7	245.8	248.0	243.6	269.8	273.7	267.5
80°	164.4	160.0	155.0	151.6	152.2	148.8	149.4	150.5	152.2	151.6	153.3
82.5°	112.6	108.7	106.5	104.2	107.6	108.7	111.5	114.3	118.7	121.5	124.9
85°	61.3	56.3	56.3	55.7	60.2	63.5	68.0	73.6	81.4	88.1	95.3
87.5°	31.2	30.1	30.7	31.8	35.7	38.5	44.0	49.1	55.7	63.0	69.7
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-F04-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	798.2	798.2	797.6	797.6	797.1	796.5	796.0	794.3	788.1	782.6	778.7
5°	810.4	808.8	808.2	806.5	806.0	804.9	803.2	801.5	790.4	780.3	773.1
7.5°	835.5	833.3	832.2	830.5	828.8	826.6	824.4	822.7	809.3	797.6	788.7
10°	868.4	867.3	866.7	864.5	864.5	861.2	860.6	856.7	842.2	831.6	823.8
12.5°	914.1	911.9	911.3	908.5	909.7	908.5	907.4	905.2	894.6	882.3	871.8
15°	971.0	971.0	968.2	966.0	966.5	965.4	967.6	964.8	958.2	947.0	929.7
17.5°	1039.5	1038.4	1039.5	1037.9	1039.0	1040.1	1037.3	1037.9	1034.5	1020.6	994.9
20°	1119.2	1117.6	1124.3	1121.5	1127.6	1122.0	1123.1	1124.8	1124.8	1106.4	1071.9
22.5°	1210.6	1209.5	1209.5	1215.1	1217.3	1217.9	1220.1	1221.8	1226.3	1202.8	1147.7
25°	1302.1	1306.0	1306.5	1313.8	1317.1	1317.1	1318.8	1324.9	1338.3	1306.0	1234.6
27.5°	1395.1	1404.6	1406.8	1411.9	1416.9	1421.9	1425.8	1430.3	1452.0	1416.9	1323.8
30°	1488.2	1498.8	1506.6	1512.2	1518.3	1530.6	1532.8	1541.7	1578.0	1535.0	1408.5
32.5°	1597.5	1612.5	1622.6	1629.8	1639.3	1651.0	1657.7	1668.8	1703.9	1633.7	1470.4
35°	1727.9	1736.8	1751.3	1763.6	1769.2	1789.2	1799.8	1802.6	1829.3	1719.0	1516.1
37.5°	1818.2	1833.3	1858.3	1875.6	1885.6	1896.8	1914.6	1926.3	1952.0	1796.5	1538.9
40°	1933.0	1955.9	1975.9	2001.6	2017.7	2026.1	2043.9	2053.4	2056.8	1862.8	1531.7
42.5°	2072.9	2093.6	2120.3	2140.9	2153.2	2162.7	2177.2	2181.1	2137.6	1894.0	1492.7
45°	2204.5	2236.2	2259.1	2274.1	2283.1	2288.1	2297.0	2297.6	2204.5	1878.4	1425.8
47.5°	2346.0	2368.9	2390.1	2400.7	2399.6	2400.7	2397.3	2395.1	2237.9	1824.3	1340.0
50°	2502.7	2517.7	2526.6	2531.7	2534.4	2523.9	2508.8	2498.8	2240.7	1747.4	1253.0
52.5°	2712.8	2731.8	2730.1	2729.5	2707.2	2697.2	2657.1	2636.4	2224.5	1657.1	1154.9
55°	3245.1	3226.7	3190.5	3208.3	3117.5	3070.1	3007.7	2949.7	2245.7	1571.3	1041.2
57.5°	4451.3	4458.6	4355.4	4300.3	4147.0	3955.2	3800.8	3650.9	2436.3	1518.9	892.9
60°	5709.9	5615.1	5484.1	5284.6	5087.3	4802.5	4527.7	4267.9	2626.4	1464.3	717.4
62.5°	6259.5	6124.6	5926.7	5668.6	5358.7	5010.4	4668.1	4351.5	2534.4	1287.6	521.7
65°	6148.0	5941.8	5723.3	5421.2	5044.4	4662.6	4262.9	3939.6	2120.3	960.4	321.6
67.5°	5565.0	5389.9	5159.2	4800.8	4397.8	4000.4	3634.2	3271.9	1575.2	598.6	180.0
70°	4697.1	4526.0	4291.9	3925.1	3522.7	3142.6	2754.6	2459.2	1003.9	288.7	129.9
72.5°	3258.5	3119.7	2954.2	2692.7	2339.9	1994.3	1731.8	1504.9	556.3	153.3	118.7
75°	1323.2	1323.8	1293.7	1183.3	1000.0	862.3	735.2	623.7	232.4	130.4	117.1
77.5°	299.9	304.9	333.3	316.0	284.8	266.4	238.6	210.7	141.6	134.3	118.2
80°	151.6	152.2	150.5	151.1	149.4	149.9	147.7	146.0	132.7	138.2	118.2
82.5°	126.5	129.3	128.8	128.8	129.3	129.3	129.3	128.8	137.7	145.5	114.3
85°	100.3	105.9	110.4	114.8	119.8	123.2	124.9	126.5	133.8	143.2	103.7
87.5°	75.8	82.5	88.1	92.5	100.3	100.3	105.9	109.8	109.8	112.0	54.6
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: P159323

CATALOG NUMBER: VST-F04-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	800.4	800.4	800.4	800.4	800.4
2.5°	773.1	770.9	768.6	767.5	765.3
5°	767.5	763.1	760.3	760.3	758.0
7.5°	783.7	782.0	778.1	775.9	778.1
10°	818.2	815.5	811.0	807.7	809.3
12.5°	864.5	853.4	844.4	840.5	837.8
15°	912.4	890.1	872.3	862.3	859.5
17.5°	963.7	924.7	898.0	882.9	880.1
20°	1016.1	967.6	929.7	910.2	909.7
22.5°	1079.1	1014.4	966.0	940.3	938.6
25°	1145.4	1056.3	992.2	959.3	955.9
27.5°	1202.8	1089.7	1008.3	969.3	966.0
30°	1250.8	1114.8	1021.7	976.5	972.1
32.5°	1285.3	1129.3	1027.3	978.8	973.8
35°	1296.5	1123.7	1011.7	958.7	953.1
37.5°	1281.4	1087.5	968.2	909.7	903.0
40°	1236.3	1023.9	897.4	837.2	828.8
42.5°	1167.2	945.9	812.1	754.7	744.1
45°	1081.9	857.8	727.4	663.3	658.3
47.5°	992.7	765.3	632.1	574.1	568.0
50°	896.3	658.3	539.0	476.0	476.0
52.5°	781.5	554.0	430.9	383.5	379.6
55°	649.4	436.4	343.4	307.1	302.1
57.5°	507.2	335.5	274.2	253.1	247.5
60°	372.9	251.9	220.7	209.0	206.8
62.5°	253.1	191.7	177.8	172.8	172.2
65°	171.1	149.4	145.5	143.8	144.4
67.5°	131.5	124.3	122.6	122.1	122.1
70°	114.3	109.8	108.1	108.7	108.1
72.5°	107.6	101.4	102.0	103.1	102.6
75°	105.3	97.5	99.8	100.3	98.1
77.5°	103.7	93.1	98.7	100.3	94.2
80°	100.3	89.2	102.6	103.1	92.5
82.5°	92.0	79.1	102.6	94.8	83.6
85°	78.0	60.2	115.9	82.5	61.9
87.5°	49.6	35.7	78.6	56.3	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)