

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: P159334

Luminaire Tested: **VST-F05-LED-E-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159334
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-F05-LED-E-U-T2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11636.8 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 133.3
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



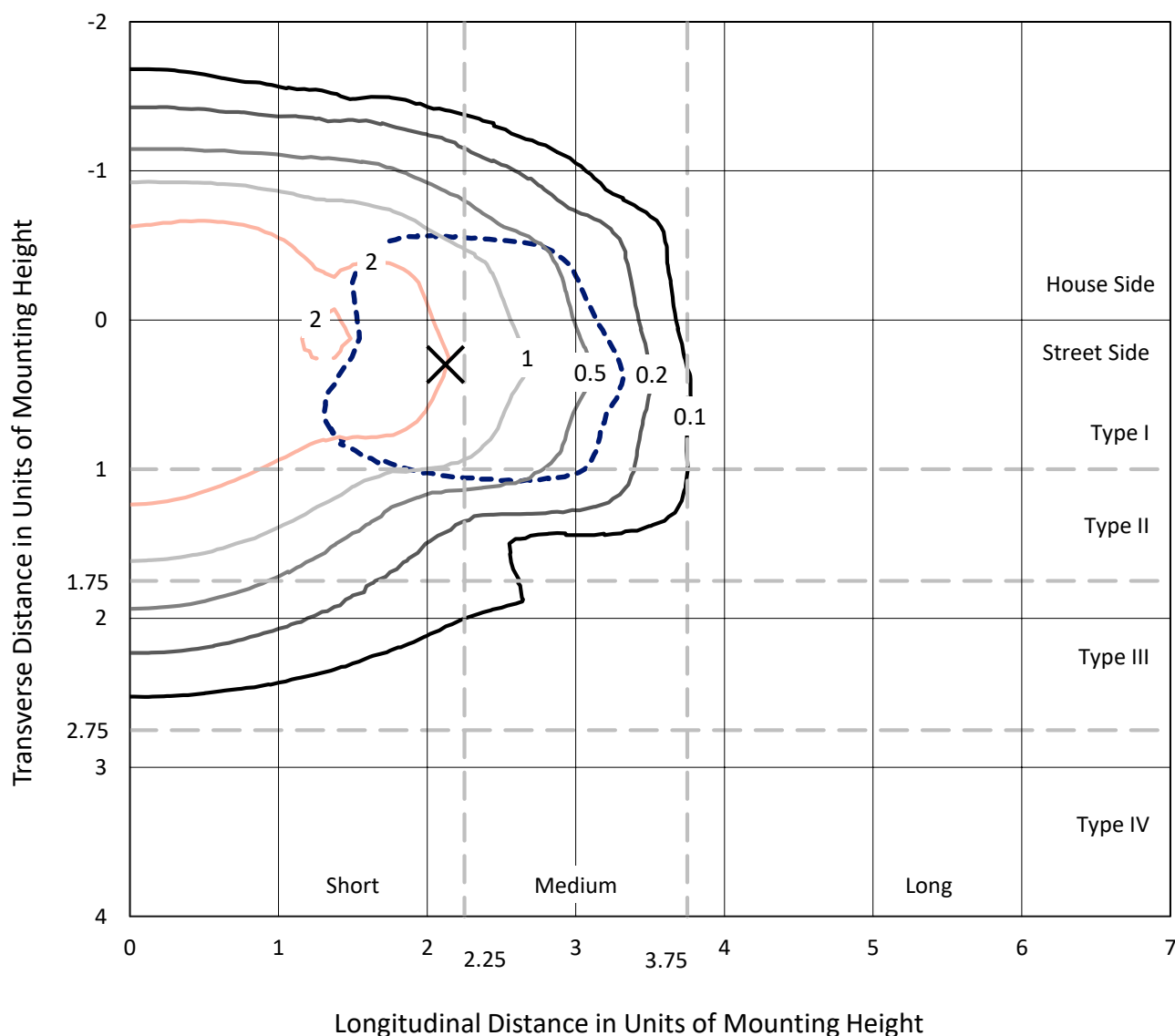
REPORT NUMBER: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

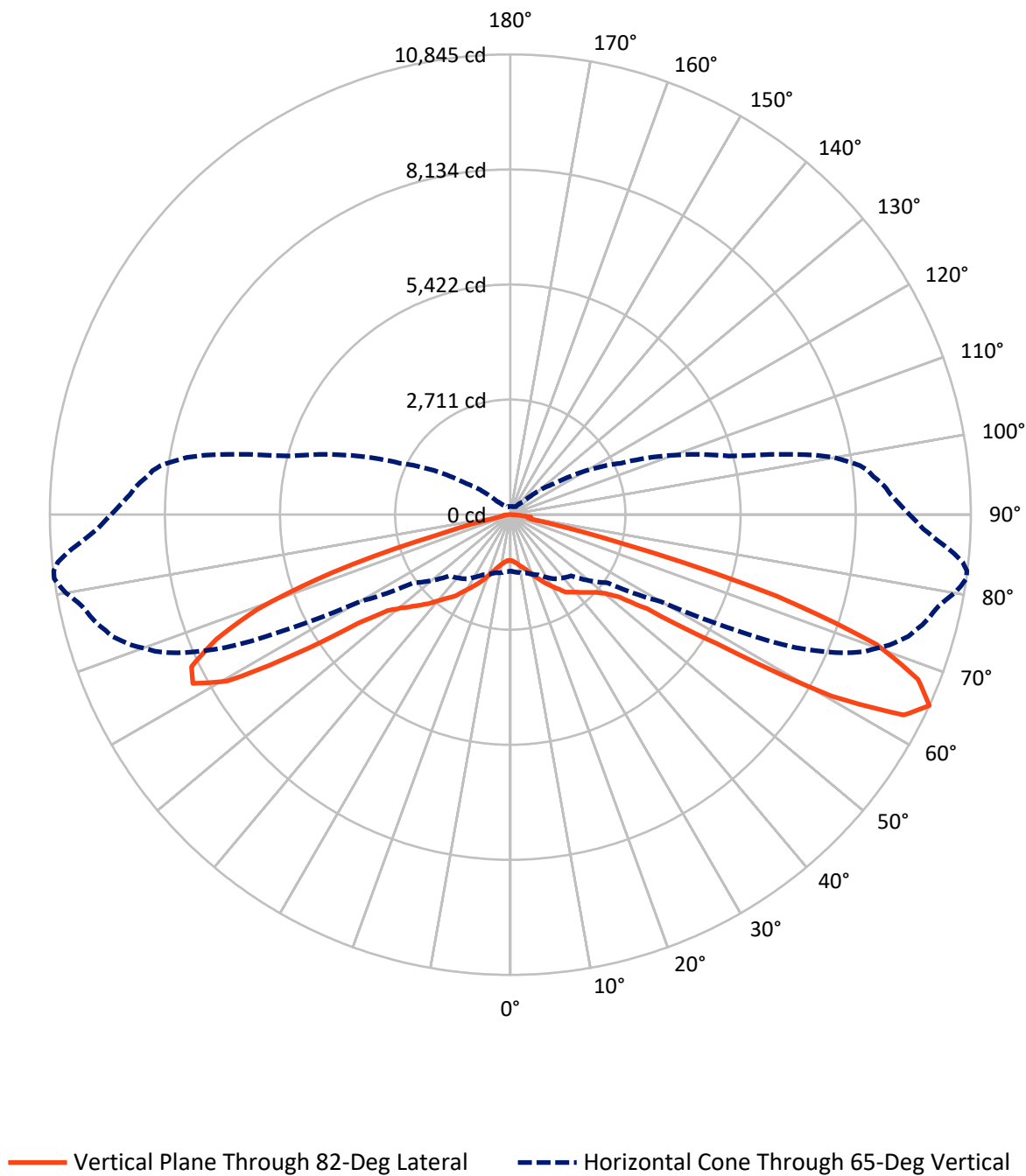


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

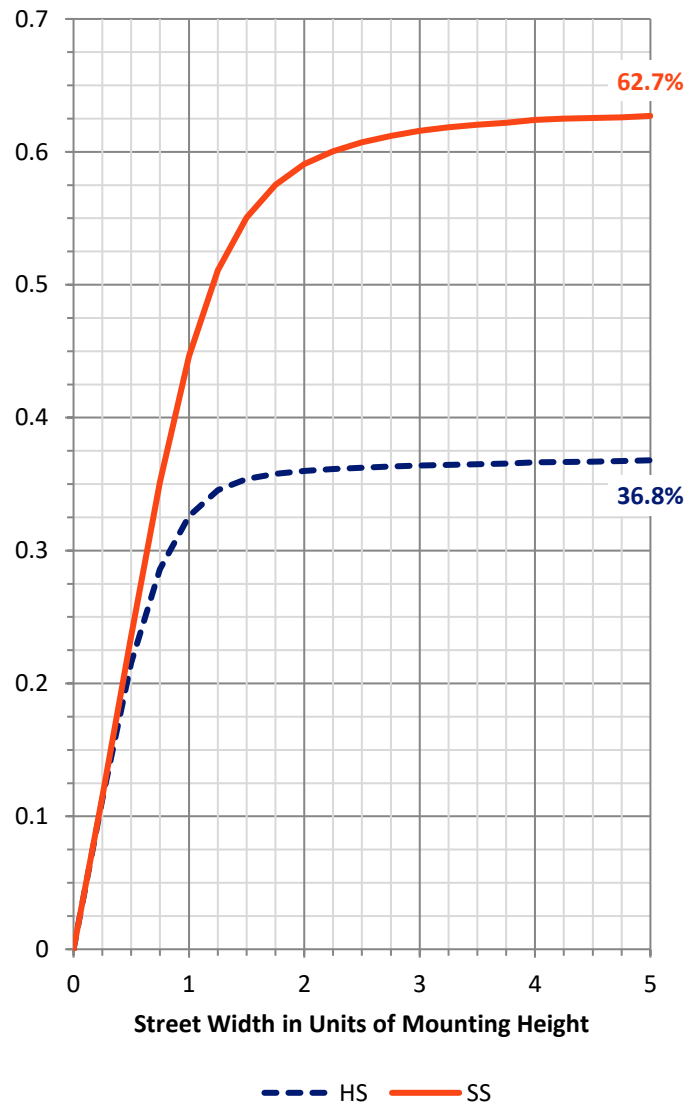
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4332.8	0.0	4332.8
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	7304.1	0.0	7304.1
	% Fixture	62.8	0.0	62.8
Total	Lumens	11636.8	0.0	11636.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	0.9
10°-20°	385.2	3.3
20°-30°	763.2	6.6
30°-40°	1308.2	11.2
40°-50°	1965.3	16.9
50°-60°	2730.4	23.5
60°-70°	3114.9	26.8
70°-80°	1073.1	9.2
80°-90°	187.0	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°	11636.8	100.0
0°-180°	11636.8	100.0

Coefficient of Utilization



REPORT NUMBER: P159334

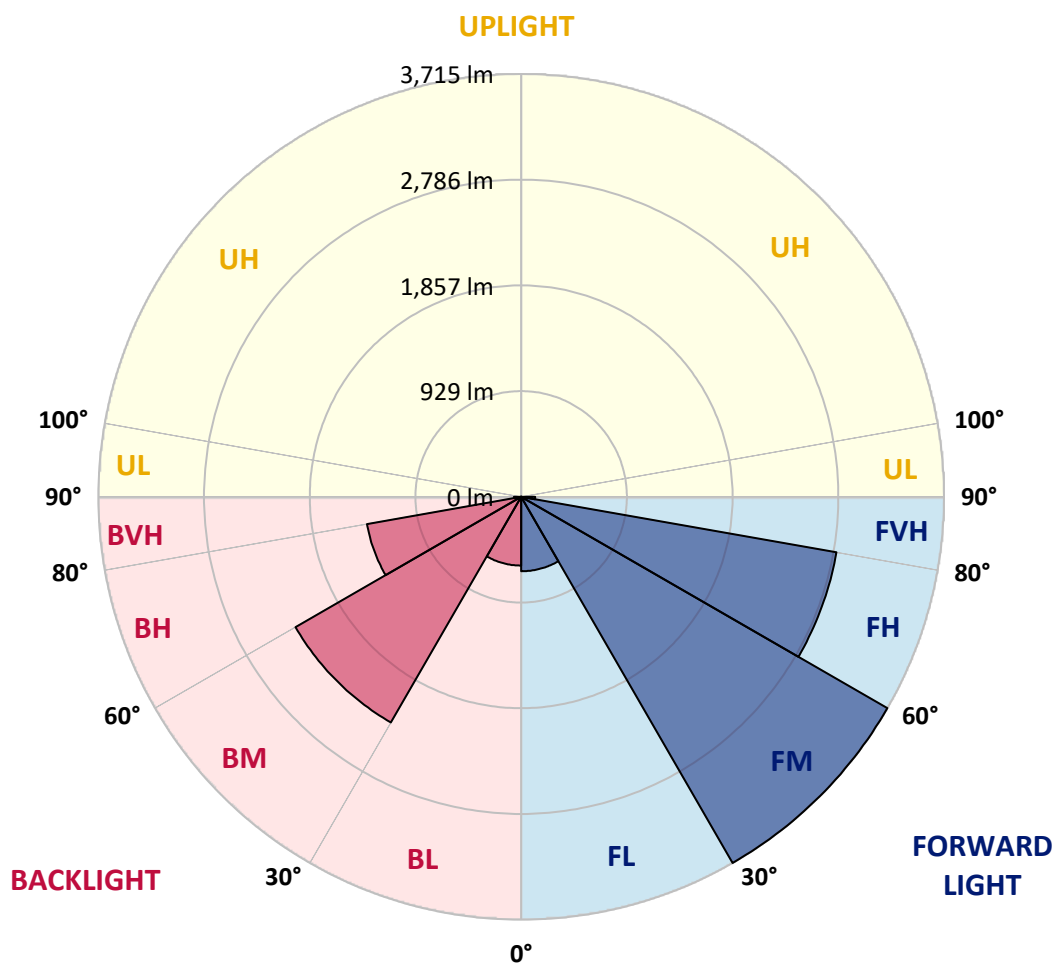
CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.7	5.6			
FM	(30°-60°)	3714.7	31.9			
FH	(60°-80°)	2812.5	24.2			G2/5000
FVH	(80°-90°)	123.1	1.1			G2/225
BL	(0°-30°)	604.2	5.2	B2/1000		
BM	(30°-60°)	2289.2	19.7	B2/2500		
BH	(60°-80°)	1375.5	11.8	B3/2500		G3/2500
BVH	(80°-90°)	63.9	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





REPORT NUMBER: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7
2.5°	1141.5	1142.3	1141.5	1139.3	1138.5	1131.7	1124.2	1120.4	1119.7	1116.7	1117.4
5°	1212.4	1210.2	1207.1	1203.4	1199.6	1188.3	1175.5	1168.7	1166.4	1164.2	1161.1
7.5°	1275.8	1277.3	1275.8	1270.5	1260.7	1246.4	1229.8	1219.2	1218.5	1216.2	1213.9
10°	1357.2	1361.0	1351.9	1342.9	1329.3	1307.4	1288.6	1275.0	1272.7	1269.7	1268.2
12.5°	1445.4	1446.2	1443.1	1422.8	1400.2	1370.0	1342.9	1329.3	1326.3	1322.5	1321.0
15°	1539.7	1540.4	1523.8	1504.2	1469.5	1433.3	1395.6	1380.6	1376.8	1377.5	1371.5
17.5°	1614.3	1615.8	1600.0	1575.1	1533.6	1490.6	1449.9	1437.9	1435.6	1436.4	1433.3
20°	1646.7	1649.0	1639.2	1620.3	1581.1	1543.4	1514.0	1506.5	1505.7	1504.2	1510.2
22.5°	1645.2	1646.0	1642.2	1634.7	1611.3	1589.4	1585.6	1590.2	1589.4	1590.9	1596.2
25°	1631.6	1633.9	1633.1	1636.2	1632.4	1640.7	1658.0	1673.9	1676.1	1679.1	1688.9
27.5°	1666.3	1670.8	1665.6	1668.6	1674.6	1702.5	1738.0	1762.1	1766.6	1774.9	1783.2
30°	1802.0	1796.0	1789.2	1781.7	1785.5	1802.8	1842.8	1863.9	1866.1	1872.2	1883.5
32.5°	2003.4	1996.6	1990.5	1978.5	1975.5	1967.9	1981.5	1986.8	1986.0	1992.1	1995.1
35°	2230.3	2231.1	2229.6	2238.6	2246.1	2207.7	2160.2	2147.4	2152.7	2145.9	2147.4
37.5°	2424.1	2426.4	2466.3	2516.1	2530.4	2506.3	2402.2	2351.0	2333.6	2331.3	2314.0
40°	2639.0	2639.0	2699.3	2760.4	2800.3	2830.5	2706.8	2616.4	2579.4	2568.9	2525.9
42.5°	2875.0	2862.9	2918.0	2985.1	3059.0	3127.6	3063.5	2961.7	2908.9	2890.1	2814.7
45°	3068.8	3061.2	3088.4	3150.9	3270.8	3405.0	3414.1	3362.1	3330.4	3291.2	3221.8
47.5°	3187.9	3184.1	3199.9	3267.8	3417.9	3635.0	3756.4	3782.8	3763.9	3733.8	3666.7
50°	3234.6	3229.4	3240.7	3316.1	3484.2	3770.7	4039.1	4163.6	4172.6	4179.4	4158.3
52.5°	3218.0	3211.3	3234.6	3298.0	3472.9	3818.2	4260.1	4499.1	4539.0	4573.0	4642.3
55°	3059.0	3048.4	3111.7	3230.9	3423.9	3800.9	4421.4	4821.8	4906.2	4996.7	5150.5
57.5°	2815.4	2806.4	2897.6	3061.2	3337.2	3753.4	4530.0	5229.7	5419.7	5582.6	6019.1
60°	2580.9	2573.4	2626.9	2785.3	3055.9	3521.9	4395.8	5366.9	5685.9	6037.2	6834.2
62.5°	2161.7	2141.3	2213.0	2346.4	2517.6	2913.4	3809.9	5061.6	5553.2	6069.6	7150.1
65°	1328.5	1357.9	1419.8	1567.6	1848.0	2036.5	2798.1	4094.9	4743.4	5391.1	6792.7
67.5°	843.7	852.0	898.0	1000.5	1217.7	1407.0	1695.7	2569.6	3069.5	3706.6	5333.0
70°	723.1	728.4	767.6	874.6	1024.7	1257.7	1283.3	1342.1	1521.6	1927.2	3135.1
72.5°	570.0	579.1	610.0	702.7	883.7	1134.0	1584.1	1060.9	1024.7	1058.6	1529.9
75°	339.3	349.9	375.5	426.0	567.8	867.1	1659.5	1234.3	1150.6	1085.0	1055.6
77.5°	179.5	171.9	189.3	218.7	291.8	462.2	1247.1	1512.5	1453.7	1375.3	1208.7
80°	89.0	92.0	97.3	103.3	130.4	187.7	623.6	1564.5	1734.2	1809.6	1661.8
82.5°	35.4	40.0	56.5	60.3	71.6	79.9	200.6	867.1	1241.8	1684.4	2199.4
85°	18.1	17.3	30.2	36.2	42.2	37.7	70.9	323.5	582.1	907.1	1469.5
87.5°	2.3	3.0	6.8	9.0	12.8	12.1	20.4	70.1	111.6	158.3	222.4
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: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7
2.5°	1113.6	1112.9	1112.9	1109.9	1109.9	1110.6	1108.4	1106.9	1106.9	1107.6	1104.6
5°	1158.9	1156.6	1156.6	1153.6	1149.8	1149.8	1146.8	1146.1	1144.6	1141.5	1139.3
7.5°	1211.7	1209.4	1205.6	1203.4	1201.9	1199.6	1195.8	1194.3	1191.3	1188.3	1185.3
10°	1266.0	1262.9	1261.4	1257.7	1256.2	1251.6	1249.4	1250.1	1244.1	1241.8	1242.6
12.5°	1320.2	1317.2	1311.9	1310.4	1309.7	1305.2	1302.9	1301.4	1296.9	1296.1	1293.9
15°	1368.5	1370.0	1367.7	1364.0	1361.0	1360.2	1357.9	1356.4	1353.4	1350.4	1347.4
17.5°	1431.1	1433.3	1430.3	1425.0	1425.0	1424.3	1425.0	1424.3	1419.0	1421.3	1419.8
20°	1511.0	1512.5	1505.0	1507.2	1508.7	1508.0	1510.2	1512.5	1511.0	1511.0	1513.3
22.5°	1603.0	1605.3	1600.7	1603.7	1608.3	1604.5	1611.3	1610.5	1612.0	1614.3	1615.1
25°	1697.2	1701.8	1698.0	1706.3	1703.3	1706.3	1714.6	1712.3	1716.1	1722.1	1724.4
27.5°	1791.5	1794.5	1795.3	1800.5	1805.8	1810.3	1820.9	1820.9	1823.9	1834.5	1834.5
30°	1890.3	1893.3	1896.3	1903.8	1906.8	1915.1	1925.7	1928.7	1927.2	1942.3	1946.8
32.5°	2004.1	2007.1	2012.4	2021.5	2025.2	2033.5	2033.5	2041.8	2047.8	2060.7	2061.4
35°	2155.7	2157.9	2155.7	2154.9	2160.2	2171.5	2172.3	2184.3	2189.6	2202.4	2206.2
37.5°	2307.2	2306.5	2296.7	2286.1	2286.9	2282.3	2279.3	2284.6	2286.9	2287.6	2295.9
40°	2511.6	2491.9	2476.9	2450.5	2438.4	2419.6	2408.3	2407.5	2395.4	2393.9	2396.2
42.5°	2779.2	2756.6	2721.2	2676.7	2642.7	2608.1	2582.4	2567.3	2541.0	2527.4	2516.1
45°	3153.2	3097.4	3055.2	3002.4	2936.8	2876.5	2813.1	2784.5	2734.0	2703.1	2668.4
47.5°	3610.1	3555.1	3490.2	3435.9	3350.0	3266.3	3179.6	3103.4	3015.2	2945.1	2887.8
50°	4106.2	4073.8	4027.1	3976.6	3865.7	3810.7	3701.4	3598.1	3503.1	3377.9	3268.6
52.5°	4615.2	4634.0	4623.5	4605.4	4535.3	4514.2	4419.9	4294.0	4198.2	4112.3	3922.3
55°	5242.5	5265.1	5310.4	5336.8	5328.5	5382.0	5358.6	5260.6	5222.2	5182.2	5047.2
57.5°	6202.4	6363.7	6536.4	6687.9	6723.4	6913.4	6872.7	6970.7	7040.0	6990.3	6946.5
60°	7225.5	7551.2	7844.5	8151.4	8401.0	8588.0	8835.3	9001.9	9106.7	9295.2	9310.3
62.5°	7638.0	8080.5	8453.0	8808.9	9105.2	9364.6	9587.8	9817.7	10006.2	10176.6	10299.6
65°	7411.8	7874.0	8325.6	8686.8	8971.8	9195.0	9437.7	9620.2	9805.7	9915.0	10043.9
67.5°	6161.6	6773.9	7329.6	7736.7	8126.5	8353.5	8640.8	8820.2	9017.0	9132.4	9215.3
70°	4017.3	4814.2	5573.5	6191.0	6717.3	6982.0	7328.8	7573.9	7810.6	7816.7	7954.6
72.5°	2167.7	2834.3	3469.9	4101.0	4701.1	5053.3	5395.6	5693.4	5928.7	5828.4	5965.6
75°	1207.1	1519.3	1866.9	2246.1	2611.8	2813.1	3068.8	3070.3	3191.7	3000.9	3049.1
77.5°	1161.1	1146.8	1152.1	1162.7	1180.8	1142.3	1141.5	1118.2	1082.0	1016.4	1027.7
80°	1525.3	1342.9	1211.7	1005.8	809.8	660.5	619.0	628.8	658.2	717.0	791.7
82.5°	2205.4	2051.6	1831.5	1507.2	1183.0	912.3	749.5	665.0	661.3	720.1	833.2
85°	1606.0	1698.7	1684.4	1406.2	1159.6	941.7	685.4	579.1	479.5	456.2	496.1
87.5°	236.8	196.0	220.9	184.7	134.2	104.1	91.2	73.1	70.1	71.6	78.4
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: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7
2.5°	1105.4	1102.3	1099.3	1101.6	1099.3	1098.6	1096.3	1094.8	1094.0	1094.0	1094.0
5°	1139.3	1135.5	1133.3	1132.5	1130.2	1128.0	1127.2	1123.5	1122.7	1122.7	1120.4
7.5°	1185.3	1182.3	1178.5	1176.2	1174.7	1171.0	1167.2	1166.4	1165.7	1162.7	1160.4
10°	1238.8	1234.3	1229.8	1229.8	1226.7	1226.0	1222.2	1216.9	1216.2	1211.7	1210.2
12.5°	1289.3	1287.8	1282.5	1281.0	1278.8	1276.5	1274.2	1272.0	1269.7	1266.0	1267.5
15°	1349.6	1345.9	1341.4	1342.1	1341.4	1338.3	1335.3	1333.1	1331.6	1330.0	1330.0
17.5°	1422.0	1420.5	1419.8	1416.0	1413.0	1415.2	1415.2	1415.2	1411.5	1412.2	1413.0
20°	1514.0	1515.5	1514.0	1511.0	1510.2	1512.5	1507.2	1515.5	1511.0	1508.0	1509.5
22.5°	1615.8	1621.1	1615.1	1615.8	1619.6	1621.1	1615.8	1622.6	1620.3	1615.8	1619.6
25°	1726.6	1730.4	1727.4	1726.6	1728.9	1734.2	1733.4	1732.7	1738.0	1733.4	1735.7
27.5°	1840.5	1842.8	1844.3	1846.5	1848.0	1847.3	1850.3	1850.3	1853.3	1848.0	1850.3
30°	1953.6	1953.6	1956.6	1959.6	1959.6	1959.6	1965.7	1966.4	1961.9	1963.4	1958.1
32.5°	2074.2	2075.0	2078.0	2078.0	2084.0	2084.8	2091.6	2082.5	2091.6	2084.0	2085.5
35°	2216.0	2225.8	2227.3	2234.8	2240.9	2243.1	2243.1	2243.9	2252.2	2246.1	2248.4
37.5°	2298.9	2301.2	2307.2	2311.0	2311.0	2314.0	2316.3	2314.0	2316.3	2315.5	2317.8
40°	2396.9	2394.7	2401.5	2403.0	2400.0	2403.7	2403.0	2400.7	2406.7	2402.2	2405.2
42.5°	2516.1	2503.3	2502.5	2508.5	2502.5	2505.5	2504.8	2499.5	2507.0	2509.3	2507.0
45°	2643.5	2636.7	2623.1	2623.1	2617.1	2614.8	2615.6	2614.8	2615.6	2624.7	2627.7
47.5°	2850.8	2809.4	2786.0	2764.1	2746.0	2745.3	2737.0	2741.5	2747.6	2762.6	2776.2
50°	3198.4	3102.7	3043.9	2989.6	2950.4	2936.8	2921.0	2919.5	2924.7	2942.1	2965.5
52.5°	3818.2	3685.5	3560.4	3444.2	3343.2	3265.5	3227.1	3206.7	3199.2	3216.5	3239.2
55°	4952.2	4701.9	4525.5	4407.8	4156.8	4050.5	3914.0	3851.4	3790.3	3796.4	3834.8
57.5°	6890.0	6755.0	6607.2	6401.4	6247.6	6062.1	5721.3	5531.3	5539.6	5584.1	5445.3
60°	9429.4	9293.0	9231.9	9044.9	8937.8	8863.2	8682.2	8367.1	8255.5	8234.4	7979.5
62.5°	10393.8	10426.2	10474.5	10527.3	10524.2	10556.7	10398.3	10295.8	10166.8	9999.5	9747.6
65°	10142.0	10224.2	10322.2	10463.9	10625.3	10744.4	10844.7	10832.6	10712.0	10488.8	10222.6
67.5°	9289.2	9370.6	9442.3	9632.3	9896.9	10139.0	10353.1	10498.6	10417.9	10233.2	9922.6
70°	8007.4	8066.2	8111.5	8276.6	8566.9	8862.4	9142.2	9386.5	9361.6	9137.6	8889.6
72.5°	5802.0	5944.5	6021.4	6010.1	6189.5	6520.5	6559.7	6768.6	6826.7	6585.4	6190.3
75°	2826.7	2829.0	2740.0	2710.6	2719.7	2777.0	2667.6	2674.4	2636.7	2465.6	2324.6
77.5°	987.7	960.6	895.7	818.8	708.8	605.5	500.7	455.4	440.3	395.8	364.9
80°	851.3	891.2	878.4	815.1	699.0	557.2	416.2	308.4	263.1	247.3	232.2
82.5°	966.6	1120.4	1218.5	1213.2	1054.1	791.7	493.9	283.5	202.1	177.2	162.9
85°	539.1	579.8	591.1	538.4	447.1	305.4	170.4	119.9	101.8	92.7	83.7
87.5°	86.0	78.4	76.9	67.1	63.3	58.1	51.3	48.3	44.5	42.2	42.2
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: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7
2.5°	1093.3	1092.5	1090.3	1088.0	1086.5	1085.8	1085.0	1083.5	1082.7	1082.0	1080.5
5°	1118.9	1117.4	1113.6	1109.9	1108.4	1106.1	1103.8	1102.3	1100.8	1100.1	1097.1
7.5°	1158.9	1157.4	1152.9	1149.8	1149.1	1143.1	1142.3	1140.0	1136.3	1135.5	1131.0
10°	1207.1	1206.4	1202.6	1200.4	1198.8	1195.8	1191.3	1187.5	1183.8	1183.8	1180.8
12.5°	1262.9	1259.9	1262.2	1256.9	1255.4	1252.4	1250.1	1249.4	1244.8	1241.1	1240.3
15°	1328.5	1324.8	1324.8	1323.3	1321.8	1318.7	1318.0	1318.7	1314.2	1315.7	1311.2
17.5°	1410.0	1411.5	1410.7	1410.7	1407.0	1407.0	1400.9	1408.5	1403.2	1407.0	1405.4
20°	1511.8	1512.5	1511.0	1513.3	1514.8	1514.0	1513.3	1512.5	1514.8	1517.8	1515.5
22.5°	1620.3	1620.3	1619.6	1627.9	1618.8	1625.6	1627.9	1623.3	1635.4	1633.9	1636.2
25°	1738.0	1738.0	1744.0	1750.8	1752.3	1747.0	1750.0	1746.2	1753.8	1759.8	1761.3
27.5°	1847.3	1857.1	1861.6	1857.1	1860.9	1869.1	1868.4	1868.4	1873.7	1872.2	1886.5
30°	1959.6	1965.7	1971.7	1968.7	1970.2	1980.7	1981.5	1982.2	1989.0	1998.8	2009.4
32.5°	2087.8	2093.8	2090.8	2100.6	2099.9	2112.7	2115.0	2117.2	2138.3	2134.6	2156.4
35°	2245.4	2251.4	2248.4	2259.0	2257.5	2262.0	2270.3	2279.3	2283.1	2305.0	2322.3
37.5°	2319.3	2319.3	2326.1	2338.1	2342.7	2350.2	2363.0	2374.3	2393.2	2416.5	2443.7
40°	2408.3	2410.5	2419.6	2432.4	2440.7	2458.0	2481.4	2497.2	2525.9	2551.5	2583.2
42.5°	2516.1	2525.9	2536.4	2553.8	2571.9	2599.0	2632.2	2652.5	2690.2	2723.4	2762.6
45°	2642.0	2651.8	2676.7	2708.3	2734.7	2764.9	2792.0	2840.3	2874.2	2908.9	2942.8
47.5°	2794.3	2823.0	2843.3	2881.0	2913.4	2953.4	2987.3	3032.6	3069.5	3111.7	3140.4
50°	2989.6	3025.0	3051.4	3100.4	3132.1	3176.6	3219.6	3253.5	3291.2	3332.7	3356.0
52.5°	3270.1	3306.3	3339.4	3400.5	3439.7	3469.9	3527.2	3569.4	3604.1	3634.2	3659.9
55°	3877.8	3867.2	3959.2	4077.6	4091.2	4200.5	4220.9	4256.3	4320.4	4329.4	4401.1
57.5°	5614.2	5559.9	5693.4	5866.8	5836.7	5781.6	6011.6	6025.9	5993.5	6080.2	5982.2
60°	8017.2	7922.2	7958.4	8005.9	7937.3	7904.9	7916.2	7948.6	7916.9	7882.2	7787.2
62.5°	9621.7	9475.4	9370.6	9282.4	9170.8	9090.1	8999.7	8888.1	8857.9	8731.2	8624.9
65°	9964.0	9736.3	9570.4	9403.8	9250.0	9107.5	8971.0	8875.3	8748.6	8598.5	8487.7
67.5°	9587.8	9305.8	9063.0	8821.0	8646.8	8437.2	8334.6	8178.6	8022.5	7850.6	7748.8
70°	8494.5	8200.4	7895.1	7658.3	7421.6	7162.2	7111.7	6926.9	6837.2	6602.7	6562.0
72.5°	5863.1	5667.0	5530.5	5238.0	5094.0	4961.3	4919.1	4747.9	4766.0	4508.9	4602.4
75°	2084.8	2056.9	2016.9	1851.8	1822.4	1771.1	1757.6	1745.5	1867.6	1698.0	1820.9
77.5°	358.1	355.9	335.5	325.7	344.6	332.5	335.5	329.5	364.9	370.2	361.9
80°	222.4	216.4	209.6	205.1	205.8	201.3	202.1	203.6	205.8	205.1	207.3
82.5°	152.3	147.0	144.0	141.0	145.5	147.0	150.8	154.6	160.6	164.4	168.9
85°	82.9	76.2	76.2	75.4	81.4	86.0	92.0	99.5	110.1	119.1	128.9
87.5°	42.2	40.7	41.5	43.0	48.3	52.0	59.6	66.4	75.4	85.2	94.2
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: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7	1082.7
2.5°	1079.7	1079.7	1079.0	1079.0	1078.2	1077.5	1076.7	1074.4	1066.1	1058.6	1053.3
5°	1096.3	1094.0	1093.3	1091.0	1090.3	1088.8	1086.5	1084.2	1069.2	1055.6	1045.8
7.5°	1130.2	1127.2	1125.7	1123.5	1121.2	1118.2	1115.2	1112.9	1094.8	1079.0	1066.9
10°	1174.7	1173.2	1172.5	1169.4	1169.4	1164.9	1164.2	1158.9	1139.3	1125.0	1114.4
12.5°	1236.5	1233.5	1232.8	1229.0	1230.5	1229.0	1227.5	1224.5	1210.2	1193.6	1179.2
15°	1313.5	1313.5	1309.7	1306.7	1307.4	1305.9	1308.9	1305.2	1296.1	1281.0	1257.7
17.5°	1406.2	1404.7	1406.2	1403.9	1405.4	1407.0	1403.2	1403.9	1399.4	1380.6	1345.9
20°	1514.0	1511.8	1520.8	1517.0	1525.3	1517.8	1519.3	1521.6	1521.6	1496.7	1449.9
22.5°	1637.7	1636.2	1636.2	1643.7	1646.7	1647.5	1650.5	1652.8	1658.8	1627.1	1552.5
25°	1761.3	1766.6	1767.4	1777.2	1781.7	1781.7	1783.9	1792.2	1810.3	1766.6	1670.1
27.5°	1887.2	1900.1	1903.1	1909.9	1916.7	1923.4	1928.7	1934.7	1964.2	1916.7	1790.7
30°	2013.2	2027.5	2038.0	2045.6	2053.9	2070.5	2073.5	2085.5	2134.6	2076.5	1905.3
32.5°	2160.9	2181.3	2194.9	2204.7	2217.5	2233.3	2242.4	2257.5	2305.0	2210.0	1989.0
35°	2337.4	2349.4	2369.0	2385.6	2393.2	2420.3	2434.6	2438.4	2474.6	2325.3	2050.9
37.5°	2459.5	2479.9	2513.8	2537.2	2550.8	2565.8	2590.0	2605.8	2640.5	2430.1	2081.8
40°	2614.8	2645.8	2672.9	2707.6	2729.5	2740.8	2764.9	2777.7	2782.2	2519.8	2072.0
42.5°	2804.1	2832.0	2868.2	2896.1	2912.7	2925.5	2945.1	2950.4	2891.6	2562.1	2019.2
45°	2982.0	3025.0	3055.9	3076.3	3088.4	3095.1	3107.2	3108.0	2982.0	2541.0	1928.7
47.5°	3173.6	3204.5	3233.1	3247.4	3245.9	3247.4	3242.9	3239.9	3027.3	2467.8	1812.6
50°	3385.4	3405.8	3417.9	3424.6	3428.4	3414.1	3393.7	3380.2	3031.1	2363.8	1695.0
52.5°	3669.7	3695.3	3693.1	3692.3	3662.1	3648.6	3594.3	3566.4	3009.2	2241.6	1562.3
55°	4389.7	4364.9	4315.9	4340.0	4217.1	4153.0	4068.5	3990.1	3037.8	2125.5	1408.5
57.5°	6021.4	6031.2	5891.7	5817.1	5609.7	5350.3	5141.5	4938.7	3295.7	2054.6	1207.9
60°	7723.9	7595.7	7418.5	7148.6	6881.7	6496.4	6124.7	5773.3	3552.8	1980.7	970.4
62.5°	8467.3	8284.9	8017.2	7668.1	7248.9	6777.6	6314.7	5886.4	3428.4	1741.7	705.7
65°	8316.5	8037.6	7742.0	7333.3	6823.6	6307.2	5766.5	5329.2	2868.2	1299.1	435.1
67.5°	7527.9	7291.1	6979.0	6494.1	5949.0	5411.4	4916.0	4425.9	2130.8	809.8	243.5
70°	6353.9	6122.4	5805.7	5309.6	4765.2	4251.0	3726.2	3326.6	1357.9	390.6	175.7
72.5°	4407.8	4220.1	3996.2	3642.5	3165.3	2697.8	2342.7	2035.8	752.5	207.3	160.6
75°	1790.0	1790.7	1750.0	1600.7	1352.7	1166.4	994.5	843.7	314.4	176.4	158.3
77.5°	405.6	412.4	450.9	427.5	385.3	360.4	322.7	285.0	191.5	181.7	159.8
80°	205.1	205.8	203.6	204.3	202.1	202.8	199.8	197.5	179.5	187.0	159.8
82.5°	171.2	174.9	174.2	174.2	174.9	174.9	174.9	174.2	186.2	196.8	154.6
85°	135.7	143.3	149.3	155.3	162.1	166.6	168.9	171.2	181.0	193.8	140.2
87.5°	102.5	111.6	119.1	125.2	135.7	135.7	143.3	148.5	148.5	151.6	73.9
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: P159334

CATALOG NUMBER: VST-F05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1082.7	1082.7	1082.7	1082.7	1082.7
2.5°	1045.8	1042.8	1039.8	1038.2	1035.2
5°	1038.2	1032.2	1028.4	1028.4	1025.4
7.5°	1060.1	1057.9	1052.6	1049.6	1052.6
10°	1106.9	1103.1	1097.1	1092.5	1094.8
12.5°	1169.4	1154.4	1142.3	1137.0	1133.3
15°	1234.3	1204.1	1180.0	1166.4	1162.7
17.5°	1303.7	1250.9	1214.7	1194.3	1190.6
20°	1374.5	1308.9	1257.7	1231.3	1230.5
22.5°	1459.7	1372.3	1306.7	1272.0	1269.7
25°	1549.5	1428.8	1342.1	1297.6	1293.1
27.5°	1627.1	1474.1	1364.0	1311.2	1306.7
30°	1692.0	1508.0	1382.1	1321.0	1315.0
32.5°	1738.7	1527.6	1389.6	1324.0	1317.2
35°	1753.8	1520.1	1368.5	1296.9	1289.3
37.5°	1733.4	1471.0	1309.7	1230.5	1221.5
40°	1672.4	1385.1	1213.9	1132.5	1121.2
42.5°	1578.9	1279.5	1098.6	1020.9	1006.6
45°	1463.5	1160.4	984.0	897.3	890.5
47.5°	1342.9	1035.2	855.0	776.6	768.3
50°	1212.4	890.5	729.1	643.9	643.9
52.5°	1057.1	749.5	582.8	518.7	513.5
55°	878.4	590.4	464.5	415.5	408.7
57.5°	686.1	453.9	371.0	342.3	334.8
60°	504.4	340.8	298.6	282.7	279.7
62.5°	342.3	259.4	240.5	233.7	233.0
65°	231.5	202.1	196.8	194.5	195.3
67.5°	177.9	168.1	165.9	165.1	165.1
70°	154.6	148.5	146.3	147.0	146.3
72.5°	145.5	137.2	138.0	139.5	138.7
75°	142.5	131.9	135.0	135.7	132.7
77.5°	140.2	125.9	133.5	135.7	127.4
80°	135.7	120.6	138.7	139.5	125.2
82.5°	124.4	107.1	138.7	128.2	113.1
85°	105.6	81.4	156.8	111.6	83.7
87.5°	67.1	48.3	106.3	76.2	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)