

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: P159574

Luminaire Tested: **VST-F07-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159574
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F07-LED-E-U-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16141.9 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

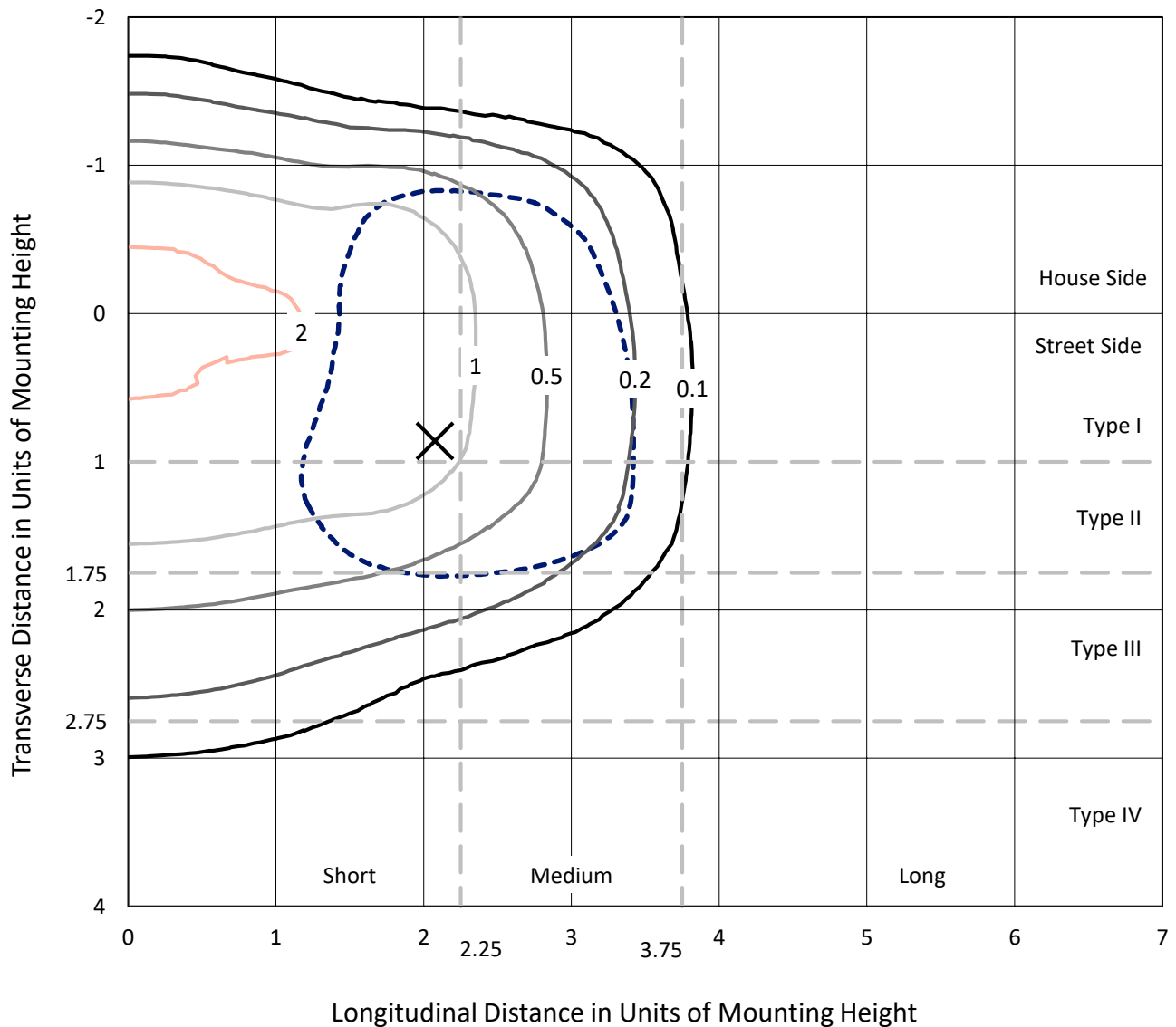
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159574
 CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

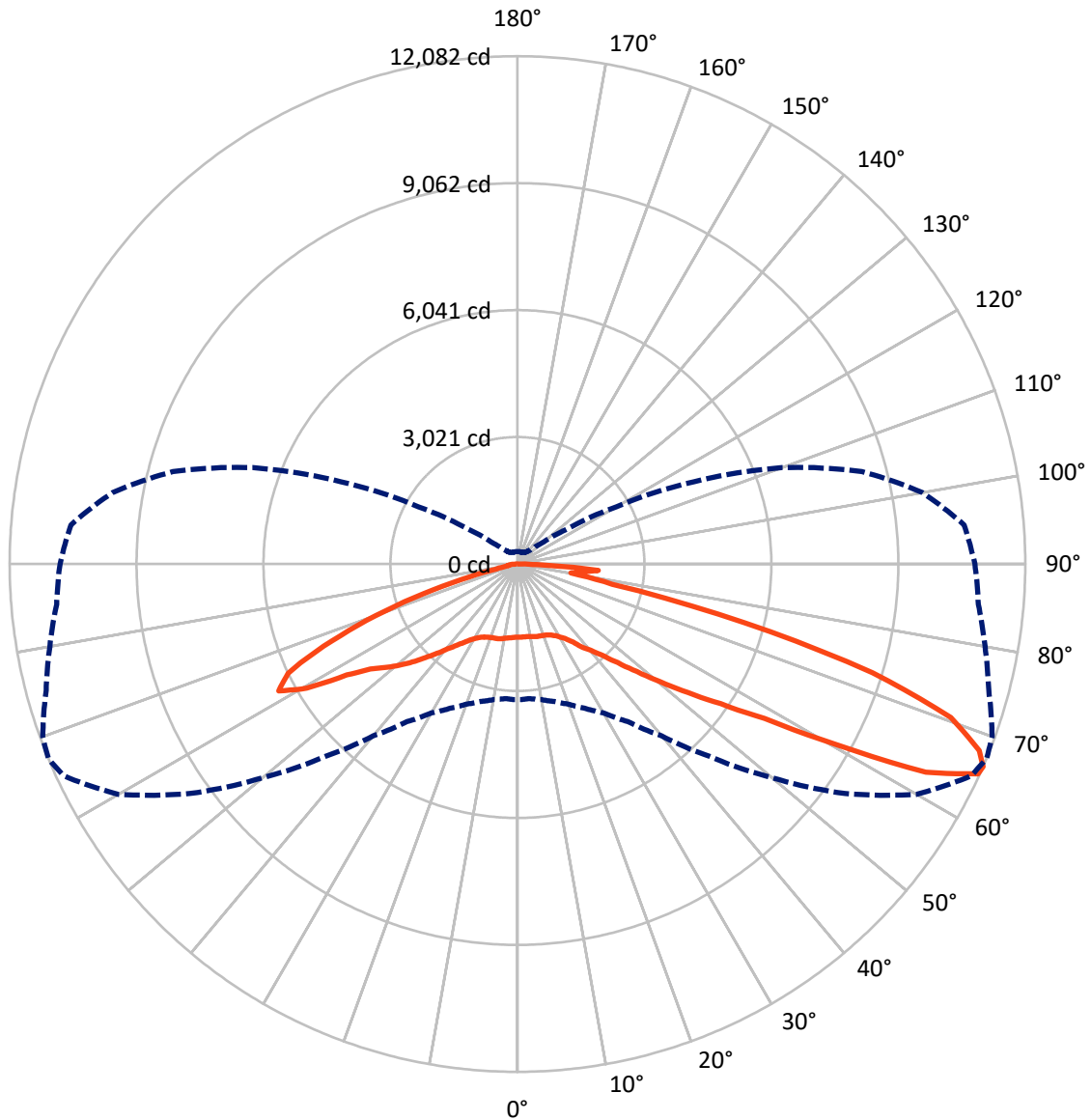


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159574

CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P159574

CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

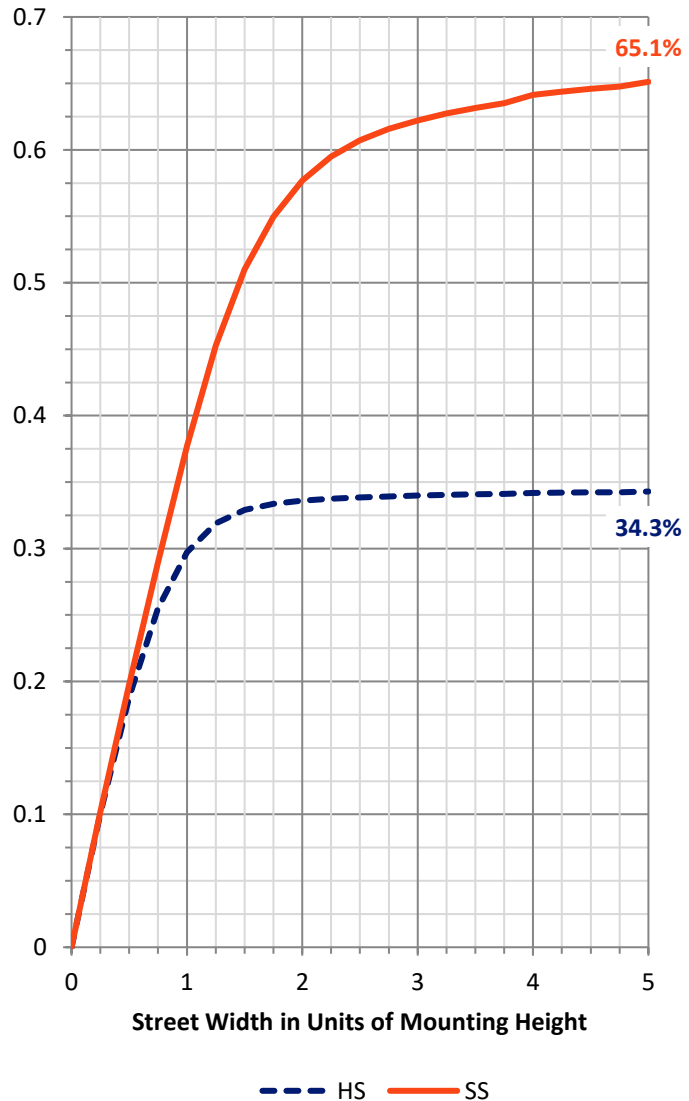
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5585.8	0.0	5585.8
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	10556.1	0.0	10556.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	16141.9	0.0	16141.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.0
10°-20°	494.9	3.1
20°-30°	850.8	5.3
30°-40°	1375.0	8.5
40°-50°	2278.7	14.1
50°-60°	3576.2	22.2
60°-70°	4889.3	30.3
70°-80°	2150.1	13.3
80°-90°	359.9	2.2
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°	16141.9	100.0
0°-180°	16141.9	100.0

Coefficient of Utilization



REPORT NUMBER: P159574

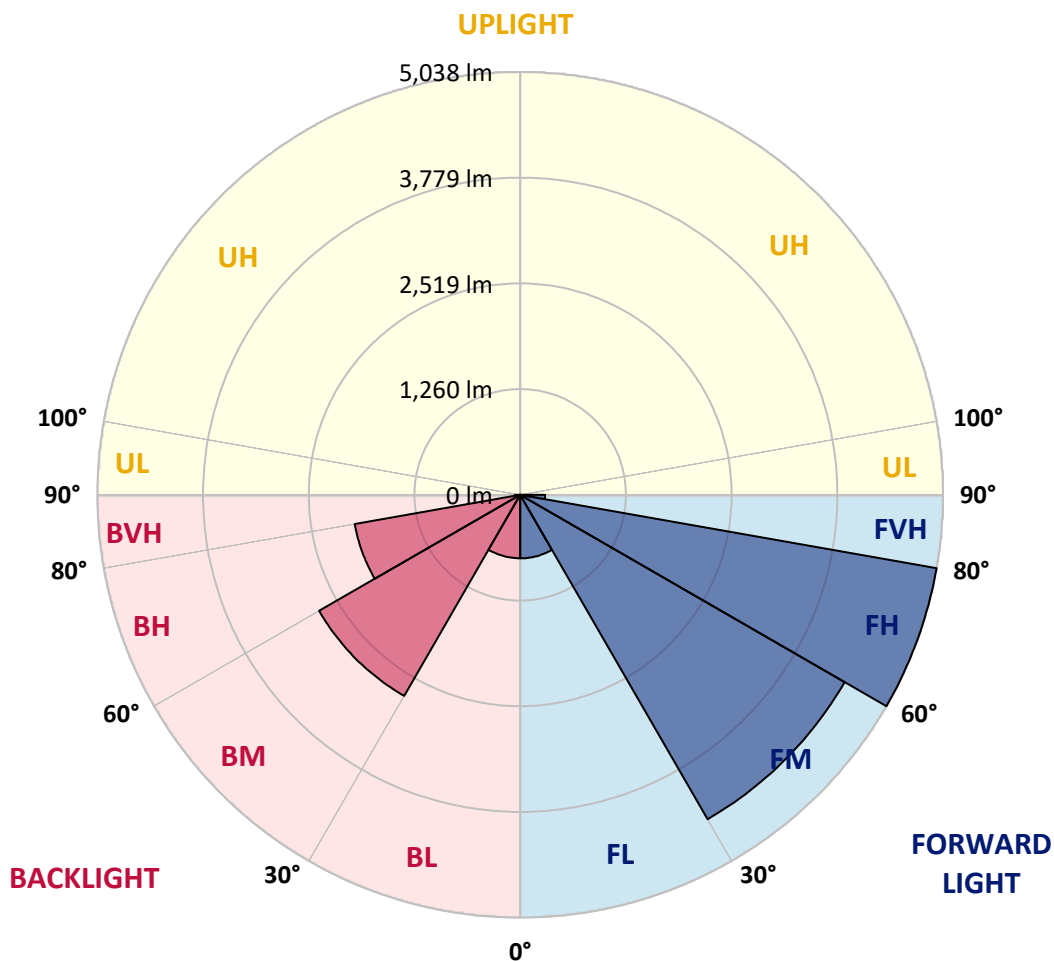
CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.2	4.7			
FM (30°-60°)	4463.7	27.7			
FH (60°-80°)	5038.3	31.2			G3/7500
FVH (80°-90°)	296.9	1.8			G3/500
BL (0°-30°)	755.6	4.7	B2/1000		
BM (30°-60°)	2766.1	17.1	B3/5000		
BH (60°-80°)	2001.1	12.4	B3/2500		G3/2500
BVH (80°-90°)	63.0	0.4			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: P159574

CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1738.6	1738.6	1739.6	1738.6	1738.6	1737.5	1741.7	1741.7	1741.7	1740.7	1743.8
5°	1734.3	1734.3	1735.4	1735.4	1736.4	1735.4	1738.6	1739.6	1739.6	1739.6	1742.8
7.5°	1723.8	1726.9	1724.8	1725.9	1726.9	1730.1	1734.3	1736.4	1738.6	1741.7	1742.8
10°	1701.6	1706.9	1705.8	1709.0	1710.1	1719.6	1722.7	1726.9	1734.3	1738.6	1741.7
12.5°	1671.0	1674.2	1675.2	1679.4	1683.7	1695.3	1703.7	1711.1	1721.7	1732.2	1742.8
15°	1646.7	1648.8	1648.8	1653.1	1659.4	1669.9	1680.5	1693.2	1709.0	1726.9	1743.8
17.5°	1654.1	1659.4	1655.2	1654.1	1656.2	1662.6	1672.1	1682.6	1701.6	1721.7	1741.7
20°	1702.7	1703.7	1701.6	1696.3	1692.1	1693.2	1693.2	1695.3	1706.9	1722.7	1738.6
22.5°	1742.8	1747.0	1745.9	1747.0	1745.9	1750.2	1748.1	1743.8	1739.6	1740.7	1748.1
25°	1777.6	1781.8	1781.8	1785.0	1790.3	1798.7	1805.1	1804.0	1797.7	1789.2	1786.1
27.5°	1834.6	1834.6	1834.6	1837.8	1845.2	1855.7	1866.3	1872.6	1877.9	1869.5	1851.5
30°	1924.3	1925.4	1922.2	1923.3	1928.6	1942.3	1955.0	1964.5	1975.0	1974.0	1950.7
32.5°	2022.5	2026.7	2025.7	2029.9	2037.3	2050.0	2063.7	2078.5	2092.2	2100.6	2085.8
35°	2149.2	2153.4	2154.5	2160.8	2169.2	2188.2	2207.2	2226.2	2241.0	2247.4	2244.2
37.5°	2357.1	2358.2	2354.0	2344.5	2347.6	2362.4	2384.6	2415.2	2424.7	2431.0	2445.8
40°	2668.5	2665.4	2648.5	2640.0	2634.8	2641.1	2636.9	2661.1	2683.3	2684.4	2683.3
42.5°	3046.4	3036.9	3021.1	3019.0	3016.9	3014.8	3003.2	3004.2	3024.3	3029.5	3023.2
45°	3422.2	3410.6	3399.0	3409.6	3396.9	3429.6	3439.1	3464.4	3467.6	3478.2	3462.3
47.5°	3730.5	3731.5	3731.5	3746.3	3771.6	3833.9	3889.9	3938.4	3956.4	3981.7	3984.9
50°	3963.7	3970.1	3990.1	4037.6	4091.5	4196.0	4289.9	4377.5	4456.7	4486.3	4564.4
52.5°	4099.9	4116.8	4159.0	4238.2	4334.3	4469.4	4617.2	4766.0	4903.2	5019.3	5112.2
55°	4075.6	4088.3	4162.2	4285.7	4435.6	4617.2	4824.1	5039.4	5253.7	5450.0	5602.0
57.5°	3919.4	3927.9	4001.7	4141.1	4327.9	4571.8	4864.2	5184.0	5484.9	5801.5	6061.2
60°	3714.6	3727.3	3795.9	3905.7	4101.0	4360.6	4699.5	5133.3	5613.6	6111.9	6597.4
62.5°	3583.7	3580.6	3640.7	3738.9	3885.6	4121.0	4447.2	4961.3	5626.3	6468.7	7428.2
65°	3366.3	3356.8	3419.1	3531.0	3690.3	3918.4	4227.6	4721.7	5493.3	6603.8	7964.4
66°	3231.2	3212.2	3274.4	3387.4	3546.8	3789.6	4086.2	4573.9	5331.8	6471.8	7907.4
67.5°	2994.7	2985.2	3014.8	3103.4	3221.7	3449.7	3759.0	4249.8	4949.7	6074.9	7489.4
70°	2434.2	2413.1	2436.3	2476.4	2521.8	2577.8	2767.8	3157.3	3749.5	4839.9	6033.8
72.5°	1658.3	1647.8	1691.1	1752.3	1873.7	1930.7	2005.6	2069.0	2278.0	3050.7	4208.6
75°	1261.4	1267.8	1322.7	1424.0	1580.2	1749.1	1913.8	1974.0	1904.3	1844.1	2388.8
77.5°	707.2	744.2	810.7	939.5	1105.2	1343.8	1630.9	1947.6	2105.9	2066.8	1932.8
80°	291.3	286.1	318.8	389.5	446.5	641.8	981.7	1378.6	1824.1	2105.9	2061.6
82.5°	81.3	83.4	107.7	138.3	178.4	227.0	354.7	570.0	928.9	1445.1	1891.6
85°	25.3	25.3	34.8	51.7	61.2	70.7	89.7	147.8	252.3	503.5	1020.8
87.5°	5.3	5.3	7.4	14.8	15.8	15.8	20.1	27.4	24.3	22.2	99.2
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: P159574

CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1740.7	1738.6	1739.6	1740.7	1739.6	1739.6	1738.6	1737.5	1738.6	1738.6	1741.7
5°	1739.6	1738.6	1739.6	1739.6	1739.6	1740.7	1740.7	1740.7	1743.8	1743.8	1749.1
7.5°	1741.7	1741.7	1743.8	1743.8	1743.8	1743.8	1744.9	1747.0	1752.3	1751.2	1760.7
10°	1745.9	1748.1	1753.3	1754.4	1754.4	1757.6	1759.7	1763.9	1769.2	1771.3	1779.7
12.5°	1751.2	1761.8	1771.3	1773.4	1776.6	1781.8	1785.0	1787.1	1796.6	1799.8	1810.3
15°	1757.6	1772.3	1783.9	1788.2	1792.4	1798.7	1802.9	1806.1	1814.6	1818.8	1831.5
17.5°	1758.6	1775.5	1789.2	1795.6	1800.8	1808.2	1814.6	1820.9	1830.4	1836.7	1849.4
20°	1757.6	1779.7	1800.8	1809.3	1814.6	1828.3	1837.8	1846.2	1857.8	1864.2	1876.8
22.5°	1769.2	1794.5	1823.0	1833.6	1842.0	1861.0	1873.7	1887.4	1902.2	1906.4	1915.9
25°	1796.6	1823.0	1858.9	1873.7	1888.5	1913.8	1931.7	1951.8	1966.6	1968.7	1971.8
27.5°	1843.1	1867.3	1910.6	1932.8	1957.1	1993.0	2019.3	2039.4	2060.5	2060.5	2058.4
30°	1937.0	1942.3	1987.7	2016.2	2052.1	2104.8	2143.9	2166.1	2181.9	2181.9	2164.0
32.5°	2058.4	2052.1	2093.2	2123.8	2173.5	2247.4	2300.1	2317.0	2333.9	2328.6	2298.0
35°	2233.6	2215.7	2238.9	2285.4	2341.3	2442.6	2497.5	2535.5	2546.1	2531.3	2482.7
37.5°	2454.2	2452.1	2463.7	2515.5	2577.8	2708.6	2764.6	2788.9	2780.4	2754.0	2668.5
40°	2687.5	2681.2	2673.8	2708.6	2778.3	2935.6	3034.8	3047.5	3035.9	2996.8	2889.2
42.5°	2998.9	2998.9	2964.1	2973.6	3031.7	3207.9	3325.1	3365.2	3366.3	3309.3	3165.7
45°	3427.5	3423.3	3362.1	3347.3	3391.6	3564.7	3715.7	3737.8	3737.8	3662.9	3505.6
47.5°	3942.6	3937.4	3877.2	3825.5	3833.9	4020.7	4146.4	4180.1	4150.6	4094.6	3907.8
50°	4523.2	4513.7	4452.5	4403.9	4382.8	4571.8	4678.4	4694.2	4650.9	4584.4	4381.8
52.5°	5112.2	5140.7	5104.8	5078.4	5085.8	5208.3	5318.1	5243.1	5221.0	5149.2	4945.4
55°	5725.5	5813.1	5892.3	5869.1	5896.5	6015.8	6036.9	5937.7	5897.6	5845.9	5618.9
57.5°	6343.0	6598.5	6858.2	6931.0	6998.6	7169.6	7145.3	6982.7	7013.3	7090.4	6835.0
60°	7205.5	7943.3	8602.0	8723.4	8933.5	9079.1	9111.9	9080.2	9222.7	9182.6	8956.7
62.5°	8530.2	9760.0	10676.2	10904.3	11115.4	11108.0	10997.1	10883.1	11023.5	11023.5	10433.5
65°	9476.0	10871.5	11852.2	12041.1	12032.7	11778.3	11516.5	11288.5	11268.4	11112.2	10249.8
66°	9520.4	10957.0	11917.6	12082.3	12019.0	11609.4	11295.9	11006.6	10883.1	10665.7	9782.2
67.5°	9121.4	10715.3	11704.4	11848.0	11681.2	11094.3	10662.5	10275.1	10095.7	9729.4	8897.6
70°	7482.0	9209.0	10647.7	10941.2	10752.2	10009.1	9418.0	8894.4	8551.3	8022.5	7422.9
72.5°	5461.6	6799.1	8357.1	8834.2	8804.7	8120.7	7644.6	7165.4	6714.6	6233.3	5795.2
75°	3550.0	4422.9	5291.7	5570.4	5436.3	5040.4	4699.5	4419.8	3992.2	3657.6	3576.3
77.5°	2026.7	2476.4	2342.4	2307.5	2139.7	1726.9	1148.5	805.4	727.3	907.8	995.4
80°	1928.6	1748.1	1431.4	1291.0	1186.5	808.6	424.3	298.7	261.8	268.1	288.2
82.5°	2174.5	2266.4	1853.6	1548.6	1348.0	983.8	537.3	250.2	182.6	216.4	242.8
85°	1629.8	2294.9	2274.8	1927.5	1581.3	1133.7	635.5	191.1	109.8	152.0	198.5
87.5°	330.4	543.6	523.6	460.2	391.6	273.4	106.6	60.2	54.9	74.9	114.0
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: P159574

CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1743.8	1743.8	1745.9	1749.1	1750.2	1750.2	1752.3	1750.2	1754.4	1755.4	1756.5
5°	1753.3	1756.5	1758.6	1763.9	1767.1	1769.2	1772.3	1770.2	1774.4	1775.5	1777.6
7.5°	1763.9	1769.2	1773.4	1775.5	1779.7	1779.7	1780.8	1778.7	1777.6	1774.4	1773.4
10°	1782.9	1786.1	1791.3	1789.2	1787.1	1779.7	1773.4	1763.9	1758.6	1749.1	1743.8
12.5°	1813.5	1815.6	1815.6	1806.1	1792.4	1775.5	1759.7	1743.8	1731.2	1720.6	1714.3
15°	1834.6	1838.8	1833.6	1819.8	1799.8	1776.6	1755.4	1734.3	1717.4	1703.7	1695.3
17.5°	1850.5	1849.4	1839.9	1820.9	1801.9	1781.8	1762.8	1740.7	1719.6	1699.5	1686.8
20°	1874.7	1864.2	1847.3	1827.2	1807.2	1790.3	1775.5	1754.4	1732.2	1704.8	1685.8
22.5°	1907.5	1888.5	1864.2	1843.1	1824.1	1808.2	1791.3	1773.4	1750.2	1719.6	1693.2
25°	1953.9	1921.2	1893.7	1872.6	1855.7	1837.8	1818.8	1795.6	1772.3	1740.7	1709.0
27.5°	2024.6	1976.1	1941.2	1922.2	1906.4	1882.1	1857.8	1830.4	1800.8	1768.1	1732.2
30°	2110.1	2052.1	2012.0	1995.1	1976.1	1948.6	1922.2	1884.2	1843.1	1804.0	1759.7
32.5°	2210.4	2151.3	2111.2	2098.5	2067.9	2036.2	1999.3	1948.6	1894.8	1836.7	1783.9
35°	2362.4	2287.5	2250.5	2221.0	2178.7	2140.7	2078.5	2012.0	1934.9	1857.8	1792.4
37.5°	2518.6	2442.6	2404.6	2363.5	2308.6	2238.9	2155.5	2060.5	1958.1	1863.1	1782.9
40°	2727.6	2645.3	2596.8	2533.4	2444.7	2336.0	2212.5	2082.7	1958.1	1839.9	1742.8
42.5°	2971.5	2895.5	2820.5	2716.0	2573.5	2415.2	2242.1	2075.3	1924.3	1788.2	1685.8
45°	3309.3	3179.4	3060.2	2892.3	2684.4	2461.6	2245.2	2040.5	1866.3	1715.3	1601.3
47.5°	3689.3	3521.5	3310.3	3047.5	2763.5	2479.6	2214.6	1975.0	1774.4	1610.8	1486.3
50°	4127.4	3869.8	3545.7	3171.0	2803.6	2455.3	2141.8	1865.2	1647.8	1459.9	1326.9
52.5°	4628.8	4236.1	3759.0	3258.6	2797.3	2381.4	2021.5	1720.6	1477.8	1278.3	1147.4
55°	5185.1	4635.1	3962.7	3314.6	2740.3	2237.9	1832.5	1516.9	1266.7	1070.4	955.3
57.5°	6165.7	5335.0	4351.1	3389.5	2621.0	2020.4	1592.9	1259.3	1033.4	866.6	756.9
60°	7987.7	6558.4	5086.9	3565.8	2441.6	1748.1	1291.0	988.0	799.1	677.7	596.4
62.5°	9115.0	7419.7	5445.8	3540.5	2150.2	1375.4	958.5	732.6	583.7	503.5	452.8
65°	8848.0	7082.0	5007.7	3041.2	1673.1	975.4	634.4	479.2	401.1	360.0	335.7
66°	8484.8	6704.1	4637.2	2723.4	1457.8	814.9	523.6	402.2	345.2	314.6	301.9
67.5°	7723.8	6013.7	3999.6	2180.9	1092.5	607.0	386.3	315.6	280.8	265.0	256.5
70°	6464.4	4845.2	2829.0	1287.8	592.2	329.3	247.0	219.6	211.1	205.8	202.7
72.5°	4998.2	3507.7	1653.1	633.4	298.7	213.2	187.9	176.3	173.1	173.1	174.2
75°	3148.8	2016.2	740.0	305.1	202.7	172.1	160.4	155.2	156.2	157.3	156.2
77.5°	1046.1	695.6	308.2	216.4	176.3	156.2	146.7	144.6	146.7	147.8	147.8
80°	300.8	262.8	222.7	191.1	161.5	145.7	137.2	136.2	141.4	142.5	140.4
82.5°	231.2	216.4	201.6	184.7	155.2	137.2	134.1	135.1	138.3	136.2	126.7
85°	212.2	210.1	150.9	149.9	135.1	130.9	127.7	128.8	125.6	114.0	103.4
87.5°	119.3	110.8	85.5	86.6	100.3	103.4	85.5	90.8	84.4	73.9	67.6
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: P159574

CATALOG NUMBER: VST-F07-LED-E-U-T3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1758.6	1757.6	1757.6	1760.7	1756.5
5°	1778.7	1777.6	1777.6	1780.8	1777.6
7.5°	1769.2	1766.0	1763.9	1762.8	1762.8
10°	1737.5	1734.3	1728.0	1725.9	1723.8
12.5°	1704.8	1701.6	1694.2	1694.2	1692.1
15°	1684.7	1680.5	1675.2	1672.1	1669.9
17.5°	1674.2	1667.8	1661.5	1658.3	1656.2
20°	1669.9	1661.5	1654.1	1648.8	1648.8
22.5°	1671.0	1660.4	1652.0	1645.7	1643.6
25°	1681.6	1665.7	1655.2	1648.8	1646.7
27.5°	1696.3	1677.3	1663.6	1655.2	1652.0
30°	1716.4	1690.0	1671.0	1660.4	1656.2
32.5°	1730.1	1693.2	1668.9	1654.1	1648.8
35°	1729.1	1681.6	1652.0	1633.0	1626.7
37.5°	1710.1	1654.1	1615.1	1591.8	1581.3
40°	1667.8	1603.4	1562.3	1540.1	1527.4
42.5°	1606.6	1536.9	1500.0	1475.7	1462.0
45°	1510.6	1441.9	1396.5	1377.5	1359.6
47.5°	1377.5	1307.9	1268.8	1241.4	1229.8
50°	1221.3	1151.6	1110.5	1088.3	1077.8
52.5°	1050.3	983.8	954.3	933.1	918.4
55°	873.0	811.7	799.1	775.9	762.1
57.5°	706.2	670.3	658.7	635.5	623.9
60°	552.1	540.5	527.8	513.0	506.7
62.5°	427.5	417.0	413.8	404.3	403.2
65°	326.2	327.2	325.1	323.0	320.9
66°	296.6	295.6	296.6	294.5	293.5
67.5°	252.3	256.5	259.7	258.6	258.6
70°	204.8	208.0	212.2	211.1	211.1
72.5°	175.2	180.5	182.6	181.6	181.6
75°	158.3	163.6	163.6	161.5	160.4
77.5°	147.8	149.9	147.8	145.7	143.6
80°	137.2	135.1	131.9	128.8	126.7
82.5°	119.3	114.0	110.8	105.6	105.6
85°	96.1	91.8	84.4	79.2	73.9
87.5°	62.3	60.2	54.9	41.2	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)