

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: P158465

Luminaire Tested: **VST-F06-LED-E-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158465
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-SL3
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14943 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.5
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

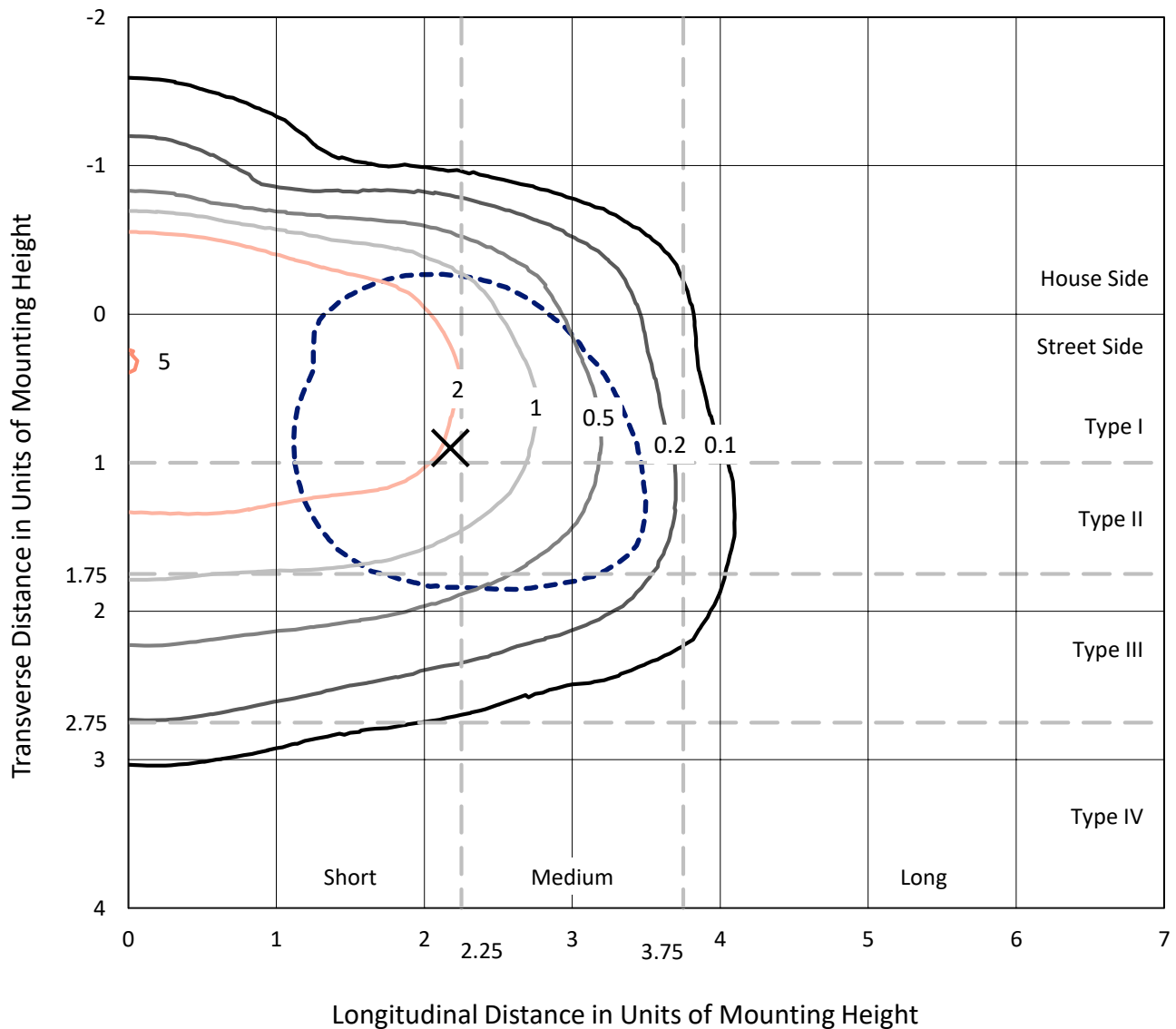


REPORT NUMBER: P158465

CATALOG NUMBER: VST-F06-LED-E-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

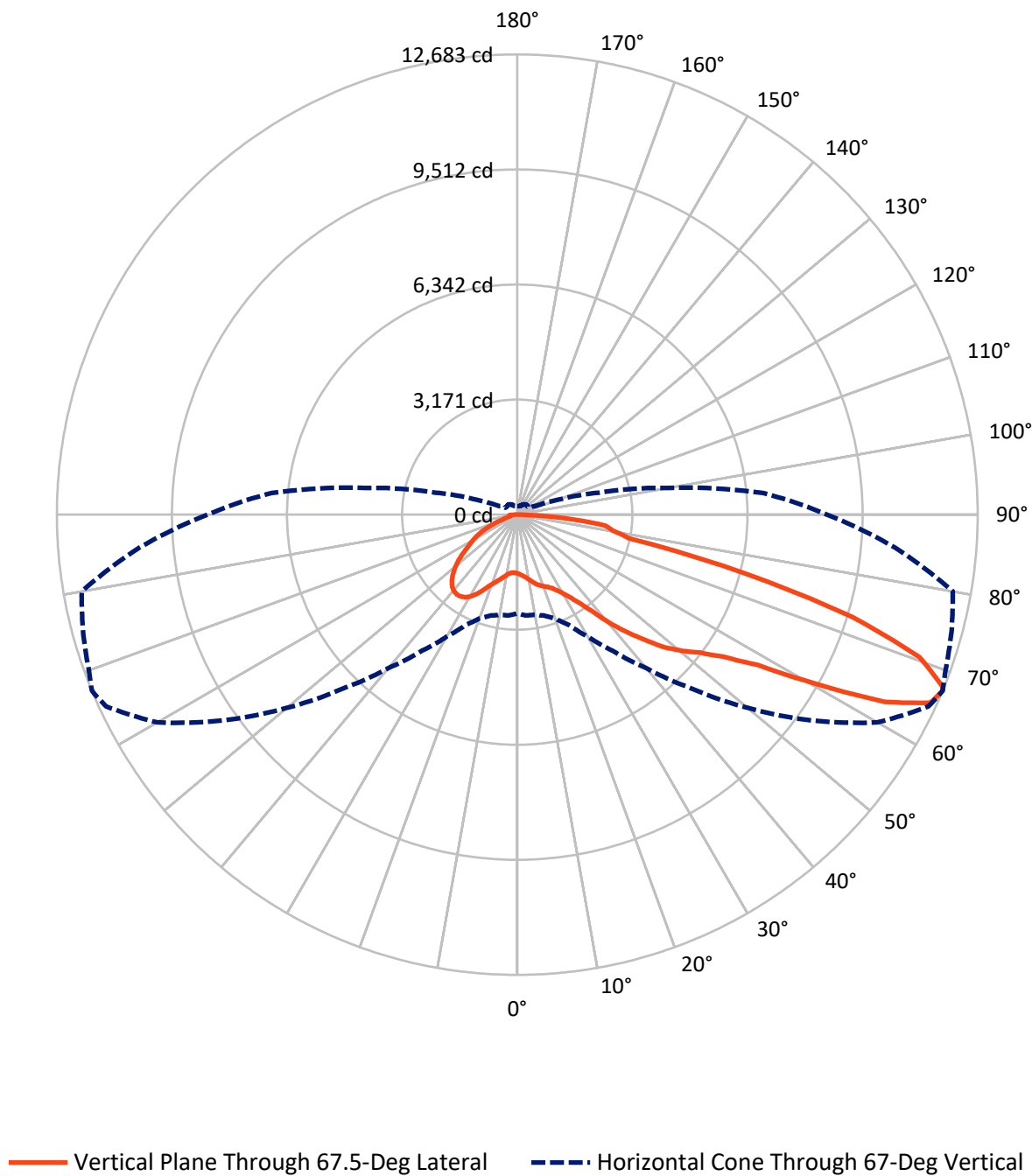


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - Semi-Cutoff

REPORT NUMBER: P158465

CATALOG NUMBER: VST-F06-LED-E-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3584.9	0.0	3584.9
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	11358.1	0.0	11358.1
	% Fixture	76.0	0.0	76.0
Total	Lumens	14943.0	0.0	14943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.1
10°-20°	548.4	3.7
20°-30°	979.2	6.6
30°-40°	1435.0	9.6
40°-50°	2217.3	14.8
50°-60°	3228.8	21.6
60°-70°	4206.0	28.1
70°-80°	1882.7	12.6
80°-90°	284.7	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°	14943.0	100.0
0°-180°	14943.0	100.0

Coefficient of Utilization



REPORT NUMBER: P158465

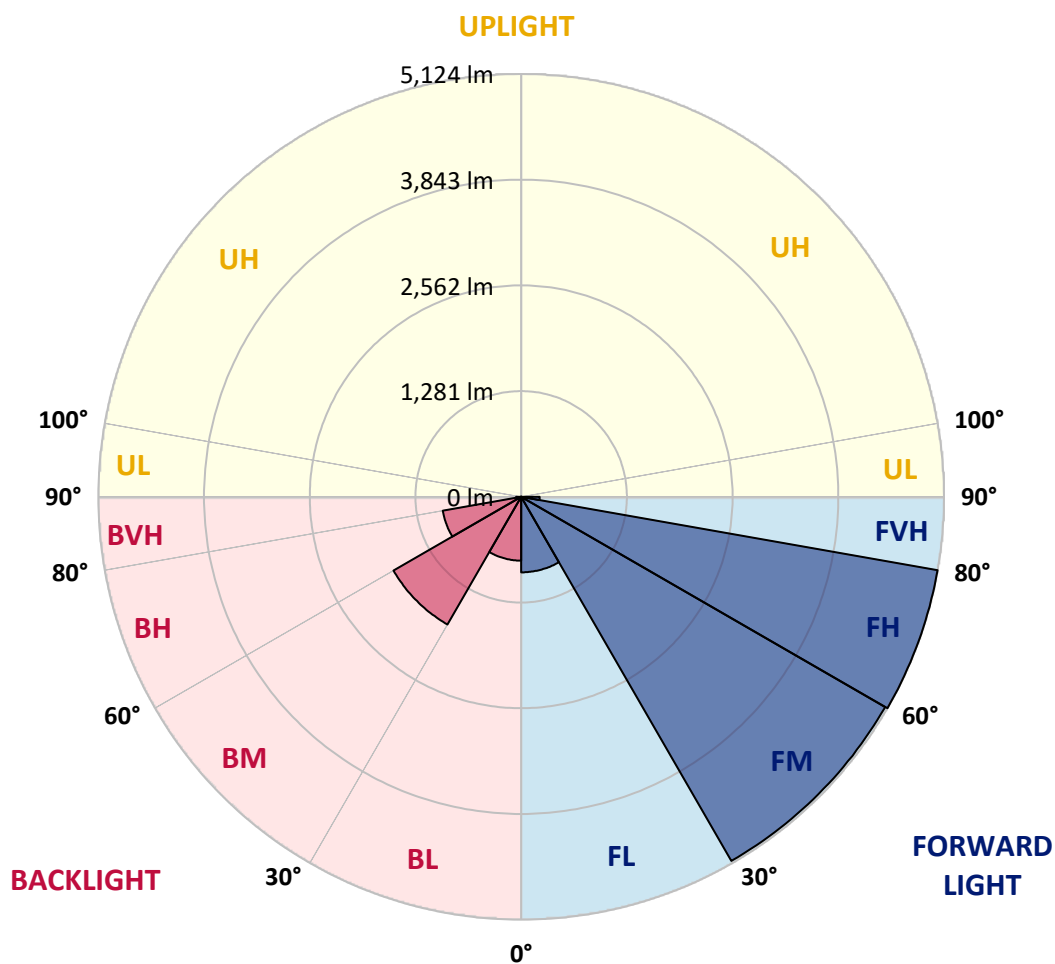
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.6	6.1			
FM	(30°-60°)	5094.8	34.1			
FH	(60°-80°)	5124.2	34.3			G3/7500
FVH	(80°-90°)	223.5	1.5			G2/225
BL	(0°-30°)	773.0	5.2	B2/1000		
BM	(30°-60°)	1786.3	12.0	B2/2500		
BH	(60°-80°)	964.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	61.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P158465

CATALOG NUMBER: VST-F06-LED-E-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7
2.5°	1683.1	1687.0	1688.0	1687.0	1688.0	1684.1	1683.1	1677.1	1680.1	1672.2	1670.2
5°	1774.2	1777.2	1779.2	1771.2	1773.2	1769.3	1764.3	1758.4	1750.4	1739.5	1732.6
7.5°	1863.4	1868.3	1867.3	1864.4	1857.4	1853.5	1843.6	1834.6	1820.8	1807.9	1799.0
10°	1983.2	1982.3	1982.3	1965.4	1955.5	1946.6	1928.8	1914.9	1901.0	1882.2	1872.3
12.5°	2121.9	2115.0	2112.0	2100.1	2079.3	2063.5	2037.7	2011.0	1986.2	1966.4	1950.6
15°	2255.7	2255.7	2247.7	2228.9	2209.1	2188.3	2151.6	2113.0	2072.4	2040.7	2024.8
17.5°	2377.5	2366.6	2359.7	2334.9	2314.1	2280.4	2239.8	2198.2	2147.7	2103.1	2072.4
20°	2466.7	2457.8	2442.9	2412.2	2376.5	2336.9	2289.3	2240.8	2186.3	2137.8	2103.1
22.5°	2518.2	2507.3	2484.5	2443.9	2395.3	2339.9	2284.4	2238.8	2189.3	2152.6	2123.9
25°	2544.9	2534.0	2503.3	2449.8	2384.4	2311.1	2247.7	2203.2	2174.4	2165.5	2161.6
27.5°	2543.9	2535.0	2502.3	2440.9	2356.7	2272.5	2204.2	2166.5	2163.5	2198.2	2224.0
30°	2518.2	2512.2	2482.5	2421.1	2332.9	2244.8	2181.4	2161.6	2192.3	2265.6	2329.0
32.5°	2492.4	2489.5	2468.6	2413.2	2337.9	2263.6	2220.0	2222.0	2285.4	2398.3	2500.3
35°	2495.4	2499.4	2496.4	2466.7	2419.1	2380.5	2359.7	2403.3	2502.3	2639.0	2775.7
37.5°	2521.2	2536.0	2554.8	2557.8	2558.8	2552.9	2596.4	2688.6	2833.2	3011.5	3225.5
40°	2577.6	2594.5	2648.9	2696.5	2757.9	2831.2	2919.4	3047.2	3226.5	3446.4	3708.9
42.5°	2753.0	2776.7	2844.1	2932.3	3045.2	3160.1	3291.9	3466.2	3686.1	3917.9	4193.3
45°	2981.8	3031.3	3105.6	3203.7	3373.1	3534.6	3705.0	3900.1	4133.9	4424.2	4701.5
47.5°	3267.1	3316.6	3424.6	3529.6	3729.7	3930.8	4117.1	4321.1	4574.7	4871.9	5179.0
50°	3516.7	3573.2	3669.3	3811.0	4042.8	4289.4	4495.5	4716.4	4929.4	5242.4	5552.5
52.5°	3712.9	3753.5	3845.6	3975.4	4234.0	4504.4	4764.9	5010.6	5263.2	5576.3	5863.5
55°	3737.6	3775.3	3865.4	4014.0	4276.5	4576.7	4876.9	5168.1	5525.7	5867.5	6247.9
57.5°	3630.7	3661.4	3752.5	3885.3	4140.8	4482.6	4862.0	5235.5	5693.2	6154.8	6619.4
60°	3479.1	3509.8	3581.1	3687.1	3917.9	4286.5	4729.3	5240.4	5848.7	6515.4	7198.9
62.5°	3312.7	3339.4	3396.9	3472.2	3675.2	4015.0	4522.2	5207.7	5975.5	6874.0	7928.0
65°	3032.3	3096.7	3121.5	3198.7	3401.8	3722.8	4238.9	4986.8	5924.0	7033.5	8385.7
67°	2722.3	2787.6	2800.5	2878.8	3041.2	3349.3	3874.4	4577.7	5515.8	6758.1	8284.6
67.5°	2623.2	2678.7	2698.5	2776.7	2930.3	3220.5	3718.8	4430.1	5391.0	6607.5	8162.8
70°	1928.8	1990.2	2012.0	2044.7	2154.6	2396.3	2726.2	3343.4	4298.3	5392.0	6885.9
72.5°	1032.2	1081.8	1102.6	1151.1	1207.6	1339.3	1591.9	2034.8	2638.0	3607.9	4898.7
75°	698.4	718.2	733.1	766.7	825.2	930.2	1041.2	1196.7	1561.2	2035.7	2787.6
77.5°	398.2	407.1	409.1	415.1	461.6	561.7	744.0	1007.5	1291.8	1475.0	1783.1
80°	172.4	190.2	204.1	195.2	192.2	213.0	266.5	397.2	778.6	1236.3	1467.1
82.5°	93.1	101.0	112.9	113.9	119.9	126.8	137.7	163.5	229.8	463.6	1011.4
85°	48.5	50.5	67.4	77.3	82.2	86.2	88.2	98.1	112.9	143.6	251.6
87.5°	6.9	9.9	11.9	15.9	17.8	18.8	21.8	27.7	32.7	39.6	67.4
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: P158465

CATALOG NUMBER: VST-F06-LED-E-U-SL3

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7
2.5°	1661.3	1659.3	1653.4	1649.4	1645.4	1641.5	1636.5	1632.6	1625.6	1620.7	1614.7
5°	1722.7	1710.8	1702.9	1692.0	1690.0	1677.1	1664.3	1658.3	1646.4	1636.5	1624.6
7.5°	1785.1	1771.2	1758.4	1749.5	1744.5	1726.7	1713.8	1698.9	1685.1	1672.2	1658.3
10°	1858.4	1844.6	1830.7	1824.7	1815.8	1799.0	1788.1	1769.3	1755.4	1739.5	1720.7
12.5°	1934.7	1924.8	1914.9	1907.0	1903.0	1895.1	1879.2	1863.4	1844.6	1828.7	1806.9
15°	2002.1	1995.1	1991.2	1989.2	1989.2	1984.2	1969.4	1954.5	1934.7	1916.9	1893.1
17.5°	2049.6	2046.6	2049.6	2052.6	2056.5	2052.6	2049.6	2032.8	2019.9	1998.1	1974.3
20°	2077.4	2083.3	2098.2	2108.1	2117.0	2123.9	2126.9	2113.0	2096.2	2080.3	2064.5
22.5°	2107.1	2123.9	2149.7	2164.5	2179.4	2204.2	2210.1	2200.2	2187.3	2177.4	2160.6
25°	2156.6	2181.4	2225.9	2249.7	2270.5	2307.2	2312.1	2314.1	2311.1	2303.2	2282.4
27.5°	2233.9	2282.4	2341.8	2372.6	2395.3	2442.9	2461.7	2461.7	2453.8	2462.7	2462.7
30°	2368.6	2433.0	2510.3	2528.1	2563.8	2605.4	2636.1	2640.0	2641.0	2659.8	2687.6
32.5°	2575.6	2637.1	2723.2	2743.1	2773.8	2813.4	2848.1	2844.1	2853.0	2893.6	2930.3
35°	2876.8	2939.2	2995.7	3022.4	3036.3	3071.9	3084.8	3106.6	3133.4	3183.9	3178.9
37.5°	3322.6	3378.0	3386.0	3402.8	3386.0	3392.9	3402.8	3428.6	3499.9	3545.5	3472.2
40°	3859.5	3951.6	3942.7	3922.9	3885.3	3834.7	3852.6	3892.2	3969.5	3929.8	3732.7
42.5°	4365.7	4460.8	4443.0	4420.2	4337.0	4318.2	4316.2	4348.9	4390.5	4277.5	3936.8
45°	4864.0	4961.1	4930.4	4917.5	4862.0	4821.4	4855.1	4857.1	4846.2	4604.4	4115.1
47.5°	5378.1	5467.3	5447.5	5458.4	5400.9	5374.2	5377.1	5363.3	5261.2	4881.8	4253.8
50°	5793.2	5913.1	5925.0	5900.2	5869.5	5828.9	5932.9	5895.2	5668.4	5151.3	4387.5
52.5°	6116.1	6277.6	6339.0	6323.2	6298.4	6303.4	6498.5	6541.1	6165.7	5491.1	4535.1
55°	6498.5	6753.1	6853.2	6912.6	6886.9	6985.9	7432.7	7454.5	6857.1	5934.9	4727.3
57.5°	7050.3	7414.9	7730.9	7815.1	7896.3	8218.3	8943.4	8722.5	7754.7	6606.5	4971.0
60°	7889.4	8687.8	9201.0	9470.4	9660.6	10110.4	10799.8	10240.1	8873.1	7405.9	5277.1
62.5°	9064.3	10231.2	11089.1	11359.6	11437.8	11696.4	12195.6	11124.8	9482.3	7764.6	5303.8
65°	9939.0	11338.7	12366.0	12504.7	12411.6	12416.6	12547.3	11078.2	9255.5	7451.5	4844.2
67°	9881.5	11448.7	12500.8	12683.0	12554.3	12384.9	12180.8	10447.2	8526.4	6795.7	4241.9
67.5°	9793.4	11342.7	12442.3	12634.5	12516.6	12323.4	12025.3	10202.5	8299.5	6591.7	4119.0
70°	8465.9	10004.4	11485.4	11755.8	11805.3	11629.0	10791.9	8602.6	6738.3	5362.3	3198.7
72.5°	6589.7	7959.7	9424.9	9659.6	9849.8	9341.6	7854.7	5941.8	4911.5	3864.4	2316.1
75°	4350.8	5744.7	6483.7	6518.3	6275.6	5334.5	3837.7	2975.9	2739.1	2271.5	1433.4
77.5°	2328.0	3378.0	3398.9	3147.2	3032.3	2260.6	917.3	506.2	563.7	639.9	570.6
80°	1736.6	2151.6	2493.4	2680.6	2736.1	1938.7	474.5	268.5	234.8	214.0	211.0
82.5°	1566.2	2078.3	2330.0	2432.0	2406.2	1594.9	266.5	180.3	149.6	162.5	185.2
85°	614.2	1109.5	1459.2	1412.6	1186.8	594.4	145.6	97.1	97.1	140.7	182.3
87.5°	125.8	227.8	309.1	295.2	265.5	114.9	71.3	58.4	59.4	113.9	172.4
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: P158465

CATALOG NUMBER: VST-F06-LED-E-U-SL3

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7	1619.7
2.5°	1608.8	1602.8	1598.9	1594.9	1591.0	1589.0	1586.0	1586.0	1580.1	1578.1	1576.1
5°	1615.7	1605.8	1598.9	1590.0	1583.0	1577.1	1569.2	1567.2	1560.2	1555.3	1553.3
7.5°	1645.4	1630.6	1615.7	1604.8	1594.9	1582.0	1573.1	1565.2	1558.3	1553.3	1547.4
10°	1701.9	1686.1	1665.2	1645.4	1632.6	1612.7	1598.9	1585.0	1577.1	1571.1	1563.2
12.5°	1785.1	1762.3	1737.6	1713.8	1692.0	1666.2	1652.4	1635.5	1625.6	1620.7	1614.7
15°	1870.3	1845.5	1814.8	1792.0	1767.3	1747.5	1734.6	1719.7	1711.8	1705.9	1701.9
17.5°	1957.5	1928.8	1907.0	1884.2	1872.3	1857.4	1840.6	1821.8	1799.0	1785.1	1766.3
20°	2046.6	2024.8	2012.0	1999.1	1985.2	1964.4	1930.7	1892.1	1849.5	1808.9	1770.3
22.5°	2150.7	2137.8	2135.8	2123.9	2095.2	2045.7	1983.2	1910.9	1838.6	1771.2	1718.7
25°	2297.3	2297.3	2287.4	2238.8	2171.5	2082.3	1977.3	1873.3	1777.2	1685.1	1615.7
27.5°	2481.5	2474.6	2426.1	2326.0	2205.1	2066.5	1925.8	1794.0	1671.2	1570.1	1481.0
30°	2684.6	2636.1	2532.1	2374.5	2193.3	2014.9	1842.6	1690.0	1545.4	1421.6	1316.5
32.5°	2895.6	2777.7	2590.5	2374.5	2151.6	1937.7	1738.6	1551.3	1385.9	1247.2	1122.4
35°	3086.8	2871.8	2604.4	2335.9	2070.4	1823.7	1592.9	1380.9	1182.8	1033.2	896.5
37.5°	3260.2	2934.2	2589.5	2260.6	1952.5	1663.3	1392.8	1159.0	935.2	790.5	673.6
40°	3373.1	2947.1	2528.1	2142.7	1784.1	1446.3	1147.1	885.6	708.3	576.5	498.3
42.5°	3443.4	2922.4	2429.0	1981.3	1557.3	1173.9	860.9	635.0	503.2	429.9	400.2
45°	3483.1	2858.0	2282.4	1760.3	1282.9	892.6	611.2	458.7	387.3	361.6	351.7
47.5°	3481.1	2754.0	2099.1	1504.8	979.7	622.1	432.9	357.6	337.8	329.9	327.9
50°	3460.3	2626.2	1884.2	1227.4	707.3	433.9	342.8	321.0	316.0	311.1	309.1
52.5°	3431.5	2467.7	1646.4	956.9	502.2	346.7	311.1	305.1	301.2	296.2	294.2
55°	3378.0	2272.5	1388.9	720.2	393.3	313.0	300.2	298.2	293.2	286.3	282.3
57.5°	3312.7	2074.4	1142.2	562.7	347.7	305.1	298.2	295.2	288.3	280.3	272.4
60°	3288.9	1910.9	949.0	474.5	336.8	308.1	303.1	299.2	289.3	277.4	268.5
62.5°	3140.3	1726.7	810.3	439.8	342.8	321.0	319.0	313.0	298.2	284.3	270.4
65°	2755.9	1460.2	686.5	416.1	354.6	342.8	344.7	335.8	321.0	302.1	277.4
67°	2331.0	1190.7	571.6	393.3	363.6	365.5	372.5	365.5	346.7	320.0	286.3
67.5°	2218.0	1122.4	542.9	386.3	365.5	371.5	379.4	374.5	355.6	324.9	290.3
70°	1648.4	790.5	405.2	349.7	365.5	389.3	407.1	412.1	391.3	348.7	298.2
72.5°	1161.0	510.2	311.1	303.1	331.9	363.6	397.2	414.1	390.3	343.7	287.3
75°	697.4	319.0	252.6	257.6	279.4	312.0	338.8	345.7	316.0	286.3	248.6
77.5°	322.9	212.0	198.1	205.1	225.9	240.7	240.7	226.9	204.1	186.2	178.3
80°	190.2	173.4	172.4	185.2	199.1	188.2	171.4	152.6	140.7	134.7	131.8
82.5°	178.3	185.2	197.1	200.1	189.2	162.5	141.7	122.8	116.9	113.9	111.0
85°	210.0	224.9	205.1	189.2	167.4	136.7	111.0	95.1	92.1	89.2	85.2
87.5°	194.2	185.2	161.5	138.7	114.9	83.2	60.4	54.5	58.4	57.5	55.5
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: P158465

CATALOG NUMBER: VST-F06-LED-E-U-SL3

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1619.7	1619.7	1619.7	1619.7	1619.7
2.5°	1577.1	1577.1	1573.1	1571.1	1576.1
5°	1549.3	1550.3	1547.4	1546.4	1547.4
7.5°	1543.4	1542.4	1540.4	1538.4	1540.4
10°	1561.2	1560.2	1557.3	1559.3	1556.3
12.5°	1614.7	1620.7	1619.7	1621.7	1625.6
15°	1701.9	1700.9	1697.9	1699.9	1702.9
17.5°	1751.4	1743.5	1736.6	1733.6	1733.6
20°	1739.5	1716.8	1704.9	1697.9	1696.0
22.5°	1669.2	1636.5	1611.8	1605.8	1600.9
25°	1554.3	1513.7	1482.0	1475.0	1462.2
27.5°	1420.6	1366.1	1328.4	1320.5	1313.6
30°	1245.2	1182.8	1139.2	1111.5	1120.4
32.5°	1031.2	971.8	921.3	876.7	869.8
35°	796.5	731.1	686.5	666.7	653.8
37.5°	594.4	539.9	510.2	491.4	492.3
40°	454.7	426.0	410.1	397.2	398.2
42.5°	379.4	366.5	362.6	356.6	353.7
45°	343.7	339.8	340.8	334.8	332.9
47.5°	323.9	321.0	322.0	318.0	317.0
50°	308.1	306.1	307.1	304.1	303.1
52.5°	292.2	293.2	292.2	290.3	290.3
55°	278.4	277.4	279.4	276.4	276.4
57.5°	267.5	266.5	266.5	265.5	265.5
60°	261.5	257.6	256.6	256.6	257.6
62.5°	258.6	251.6	250.6	250.6	251.6
65°	259.5	248.6	244.7	243.7	242.7
67°	260.5	244.7	236.8	232.8	231.8
67.5°	261.5	242.7	233.8	229.8	227.8
70°	255.6	228.8	216.0	209.0	207.0
72.5°	240.7	212.0	196.1	187.2	185.2
75°	214.0	192.2	178.3	168.4	164.4
77.5°	165.4	155.5	150.6	144.6	142.7
80°	128.8	123.8	121.8	117.9	116.9
82.5°	107.0	102.0	99.1	94.1	91.1
85°	83.2	77.3	75.3	71.3	69.3
87.5°	54.5	51.5	50.5	45.6	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)