

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: P158463

Luminaire Tested: **VST-F06-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158463
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-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12611.8 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



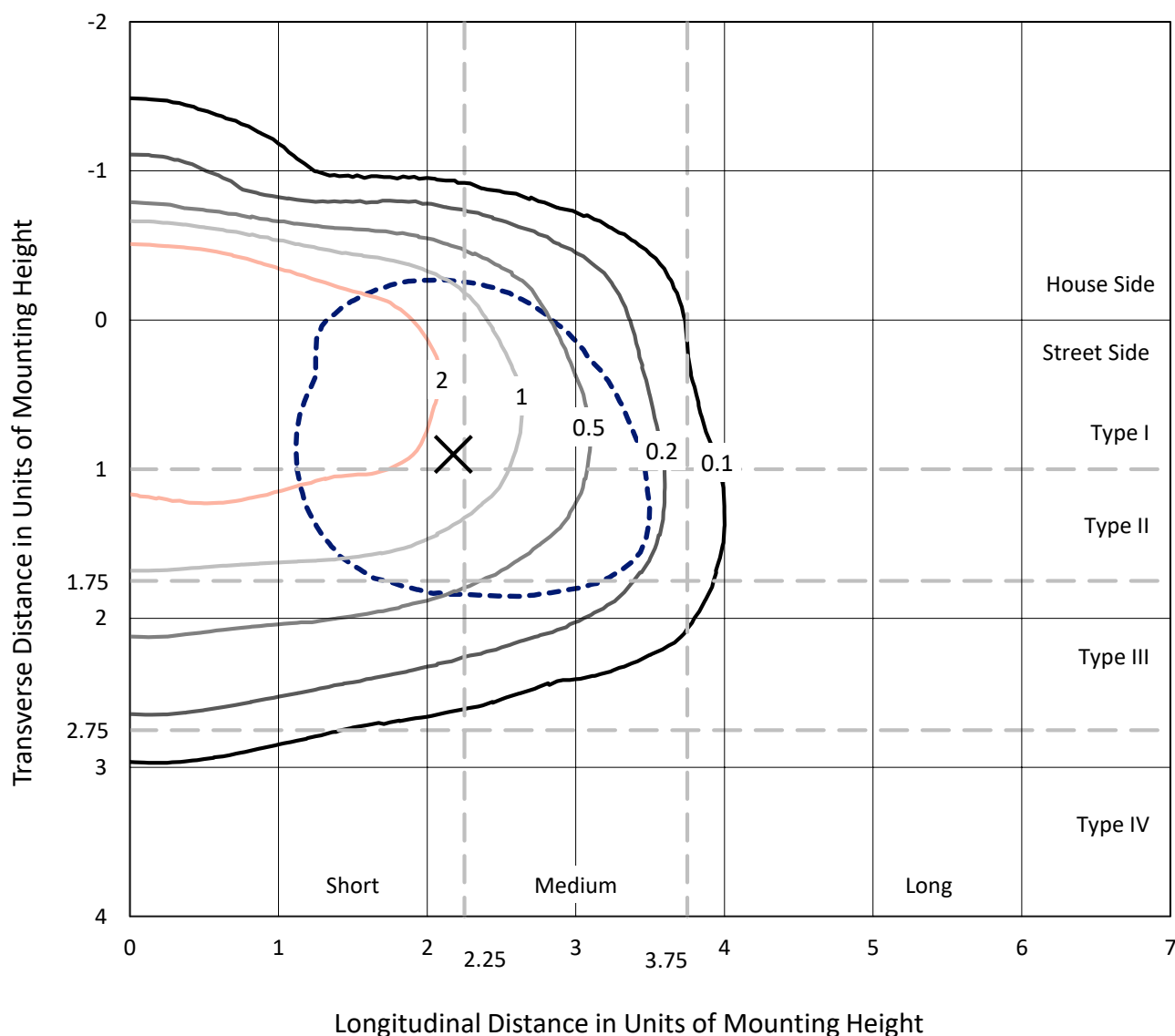
REPORT NUMBER: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

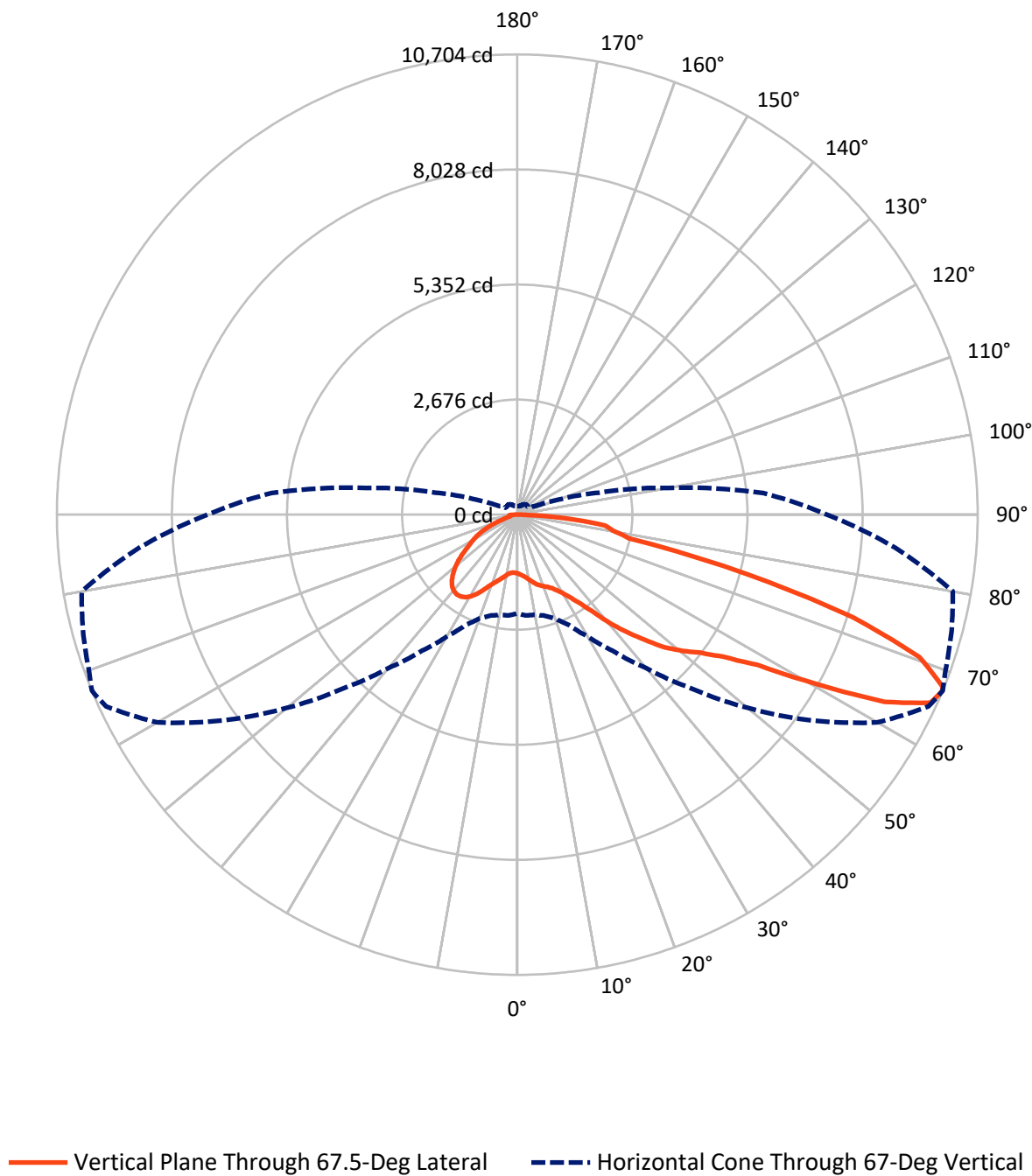


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3025.6	0.0	3025.6
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	9586.2	0.0	9586.2
	% Fixture	76.0	0.0	76.0
Total	Lumens	12611.8	0.0	12611.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.1
10°-20°	462.9	3.7
20°-30°	826.4	6.6
30°-40°	1211.1	9.6
40°-50°	1871.4	14.8
50°-60°	2725.0	21.6
60°-70°	3549.8	28.1
70°-80°	1589.0	12.6
80°-90°	240.3	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°	12611.8	100.0
0°-180°	12611.8	100.0

Coefficient of Utilization



REPORT NUMBER: P158463

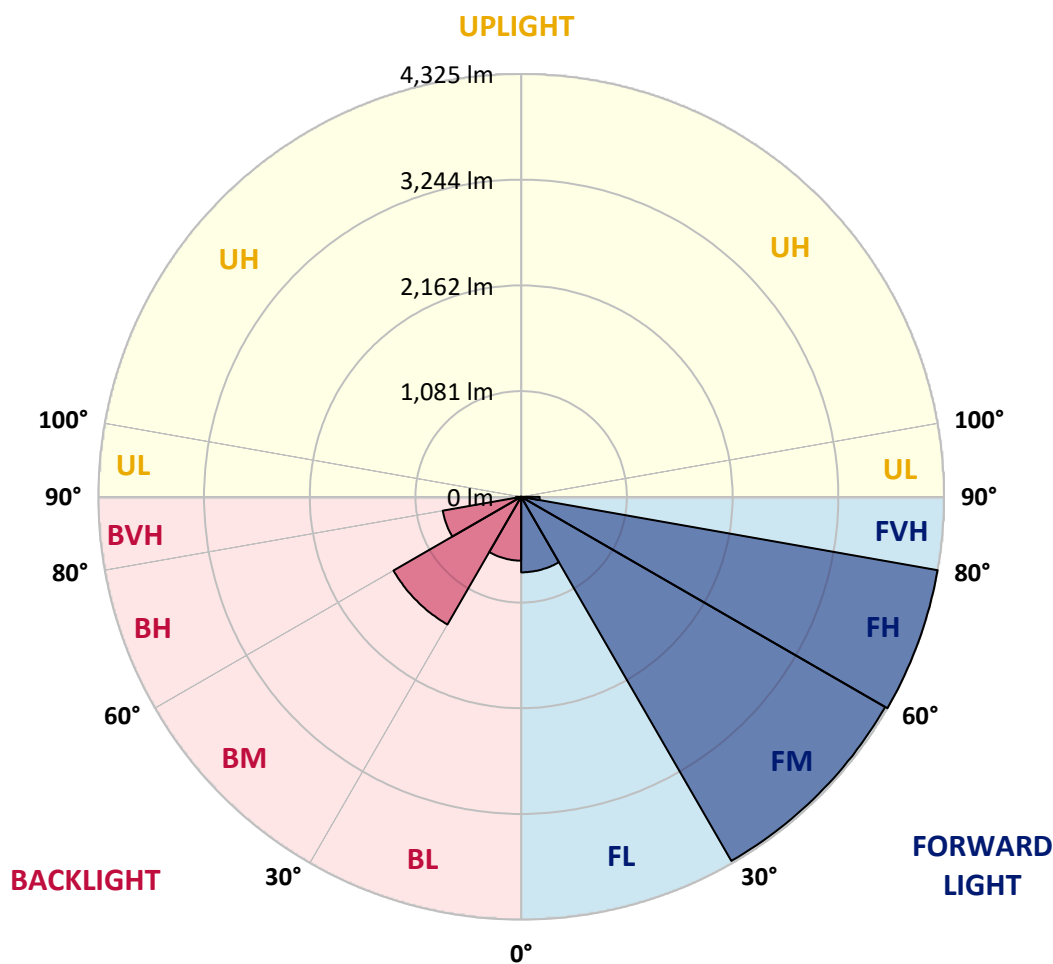
CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	772.7	6.1			
FM	(30°-60°)	4300.0	34.1			
FH	(60°-80°)	4324.8	34.3			G2/5000
FVH	(80°-90°)	188.7	1.5			G2/225
BL	(0°-30°)	652.4	5.2	B2/1000		
BM	(30°-60°)	1507.6	12.0	B2/2500		
BH	(60°-80°)	814.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	51.6	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-G2

Type III Short





REPORT NUMBER: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1420.5	1423.8	1424.7	1423.8	1424.7	1421.3	1420.5	1415.5	1418.0	1411.3	1409.6
5°	1497.4	1499.9	1501.6	1494.9	1496.6	1493.2	1489.1	1484.0	1477.4	1468.2	1462.3
7.5°	1572.7	1576.9	1576.0	1573.5	1567.7	1564.3	1555.9	1548.4	1536.7	1525.9	1518.3
10°	1673.8	1673.0	1673.0	1658.8	1650.4	1642.9	1627.9	1616.1	1604.4	1588.6	1580.2
12.5°	1790.9	1785.0	1782.5	1772.5	1754.9	1741.6	1719.8	1697.2	1676.3	1659.6	1646.2
15°	1903.8	1903.8	1897.1	1881.2	1864.5	1846.9	1816.0	1783.4	1749.1	1722.3	1709.0
17.5°	2006.6	1997.4	1991.5	1970.6	1953.1	1924.7	1890.4	1855.3	1812.6	1775.0	1749.1
20°	2081.8	2074.3	2061.8	2035.9	2005.8	1972.3	1932.2	1891.2	1845.2	1804.3	1775.0
22.5°	2125.3	2116.1	2096.9	2062.6	2021.6	1974.8	1928.0	1889.5	1847.7	1816.8	1792.6
25°	2147.9	2138.7	2112.8	2067.6	2012.5	1950.6	1897.1	1859.4	1835.2	1827.7	1824.3
27.5°	2147.1	2139.5	2111.9	2060.1	1989.0	1918.0	1860.3	1828.5	1826.0	1855.3	1877.0
30°	2125.3	2120.3	2095.2	2043.4	1969.0	1894.6	1841.1	1824.3	1850.3	1912.1	1965.6
32.5°	2103.6	2101.1	2083.5	2036.7	1973.2	1910.4	1873.7	1875.3	1928.8	2024.2	2110.3
35°	2106.1	2109.4	2106.9	2081.8	2041.7	2009.1	1991.5	2028.3	2111.9	2227.3	2342.7
37.5°	2127.8	2140.4	2156.3	2158.8	2159.6	2154.6	2191.4	2269.1	2391.2	2541.7	2722.3
40°	2175.5	2189.7	2235.7	2275.8	2327.7	2389.5	2463.9	2571.8	2723.1	2908.7	3130.3
42.5°	2323.5	2343.5	2400.4	2474.8	2570.1	2667.1	2778.3	2925.5	3111.1	3306.7	3539.1
45°	2516.6	2558.4	2621.1	2703.9	2846.9	2983.1	3126.9	3291.7	3489.0	3733.9	3968.0
47.5°	2757.4	2799.2	2890.3	2979.0	3147.9	3317.6	3474.8	3647.0	3861.0	4111.9	4371.0
50°	2968.1	3015.8	3096.9	3216.4	3412.1	3620.2	3794.1	3980.6	4160.3	4424.5	4686.2
52.5°	3133.6	3167.9	3245.7	3355.2	3573.4	3801.7	4021.6	4228.9	4442.1	4706.3	4948.8
55°	3154.5	3186.3	3262.4	3387.8	3609.4	3862.7	4116.0	4361.8	4663.7	4952.1	5273.2
57.5°	3064.2	3090.2	3167.1	3279.1	3494.8	3783.3	4103.5	4418.7	4805.0	5194.6	5586.7
60°	2936.3	2962.2	3022.4	3111.9	3306.7	3617.7	3991.5	4422.9	4936.2	5498.9	6075.8
62.5°	2795.9	2818.4	2866.9	2930.5	3101.9	3388.6	3816.7	4395.3	5043.3	5801.6	6691.2
65°	2559.2	2613.6	2634.5	2699.7	2871.1	3142.0	3577.6	4208.8	4999.8	5936.2	7077.4
67°	2297.6	2352.7	2363.6	2429.7	2566.8	2826.8	3269.9	3863.5	4655.3	5703.8	6992.2
67.5°	2213.9	2260.8	2277.5	2343.5	2473.1	2718.1	3138.7	3739.0	4550.0	5576.7	6889.3
70°	1627.9	1679.7	1698.1	1725.7	1818.5	2022.5	2300.9	2821.8	3627.8	4550.8	5811.6
72.5°	871.2	913.0	930.6	971.5	1019.2	1130.4	1343.6	1717.3	2226.5	3045.0	4134.4
75°	589.4	606.2	618.7	647.1	696.5	785.1	878.7	1010.0	1317.7	1718.1	2352.7
77.5°	336.1	343.6	345.3	350.3	389.6	474.1	627.9	850.3	1090.3	1244.9	1504.9
80°	145.5	160.5	172.2	164.7	162.2	179.8	224.9	335.3	657.2	1043.4	1238.2
82.5°	78.6	85.3	95.3	96.1	101.2	107.0	116.2	138.0	194.0	391.3	853.6
85°	41.0	42.6	56.9	65.2	69.4	72.7	74.4	82.8	95.3	121.2	212.4
87.5°	5.9	8.4	10.0	13.4	15.0	15.9	18.4	23.4	27.6	33.4	56.9
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: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1402.1	1400.4	1395.4	1392.1	1388.7	1385.4	1381.2	1377.9	1372.0	1367.8	1362.8
5°	1453.9	1443.9	1437.2	1428.0	1426.4	1415.5	1404.6	1399.6	1389.6	1381.2	1371.2
7.5°	1506.6	1494.9	1484.0	1476.5	1472.3	1457.3	1446.4	1433.9	1422.2	1411.3	1399.6
10°	1568.5	1556.8	1545.1	1540.1	1532.5	1518.3	1509.1	1493.2	1481.5	1468.2	1452.3
12.5°	1632.9	1624.5	1616.1	1609.5	1606.1	1599.4	1586.0	1572.7	1556.8	1543.4	1525.0
15°	1689.7	1683.9	1680.5	1678.9	1678.9	1674.7	1662.1	1649.6	1632.9	1617.8	1597.8
17.5°	1729.9	1727.3	1729.9	1732.4	1735.7	1732.4	1729.9	1715.6	1704.8	1686.4	1666.3
20°	1753.3	1758.3	1770.8	1779.2	1786.7	1792.6	1795.1	1783.4	1769.2	1755.8	1742.4
22.5°	1778.3	1792.6	1814.3	1826.8	1839.4	1860.3	1865.3	1856.9	1846.1	1837.7	1823.5
25°	1820.2	1841.1	1878.7	1898.7	1916.3	1947.2	1951.4	1953.1	1950.6	1943.9	1926.3
27.5°	1885.4	1926.3	1976.5	2002.4	2021.6	2061.8	2077.7	2077.7	2071.0	2078.5	2078.5
30°	1999.1	2053.4	2118.6	2133.7	2163.8	2198.9	2224.8	2228.2	2229.0	2244.9	2268.3
32.5°	2173.8	2225.7	2298.4	2315.1	2341.0	2374.5	2403.7	2400.4	2407.9	2442.2	2473.1
35°	2428.0	2480.7	2528.3	2550.9	2562.6	2592.7	2603.6	2622.0	2644.5	2687.2	2683.0
37.5°	2804.2	2851.0	2857.7	2871.9	2857.7	2863.6	2871.9	2893.7	2953.9	2992.3	2930.5
40°	3257.4	3335.1	3327.6	3310.9	3279.1	3236.5	3251.5	3285.0	3350.2	3316.7	3150.4
42.5°	3684.6	3764.9	3749.8	3730.6	3660.4	3644.5	3642.8	3670.4	3705.5	3610.2	3322.6
45°	4105.2	4187.1	4161.2	4150.3	4103.5	4069.2	4097.6	4099.3	4090.1	3886.1	3473.1
47.5°	4539.1	4614.3	4597.6	4606.8	4558.3	4535.7	4538.3	4526.6	4440.4	4120.2	3590.1
50°	4889.4	4990.6	5000.6	4979.7	4953.8	4919.5	5007.3	4975.5	4784.1	4347.6	3703.0
52.5°	5162.0	5298.3	5350.1	5336.7	5315.8	5320.0	5484.7	5520.7	5203.8	4634.4	3827.6
55°	5484.7	5699.6	5784.0	5834.2	5812.4	5896.1	6273.1	6291.5	5787.4	5009.0	3989.8
57.5°	5950.4	6258.1	6524.8	6595.9	6664.4	6936.1	7548.2	7361.7	6544.9	5575.8	4195.5
60°	6658.6	7332.4	7765.5	7993.0	8153.5	8533.1	9115.0	8642.6	7488.8	6250.6	4453.8
62.5°	7650.2	8635.1	9359.1	9587.4	9653.4	9871.6	10293.0	9389.2	8003.0	6553.2	4476.4
65°	8388.4	9569.8	10436.8	10553.9	10475.3	10479.5	10589.8	9349.9	7811.5	6289.0	4088.4
67°	8339.9	9662.6	10550.5	10704.4	10595.7	10452.7	10280.5	8817.3	7196.2	5735.5	3580.1
67.5°	8265.5	9573.1	10501.2	10663.4	10563.9	10400.9	10149.2	8610.8	7004.7	5563.3	3476.4
70°	7145.2	8443.6	9693.5	9921.8	9963.6	9814.8	9108.3	7260.5	5687.0	4525.7	2699.7
72.5°	5561.6	6717.9	7954.5	8152.6	8313.2	7884.3	6629.3	5014.8	4145.3	3261.6	1954.8
75°	3672.1	4848.4	5472.2	5501.4	5296.6	4502.3	3239.0	2511.6	2311.8	1917.1	1209.8
77.5°	1964.8	2851.0	2868.6	2656.2	2559.2	1907.9	774.2	427.2	475.7	540.1	481.6
80°	1465.7	1816.0	2104.4	2262.4	2309.3	1636.2	400.5	226.6	198.2	180.6	178.1
82.5°	1321.8	1754.1	1966.5	2052.6	2030.8	1346.1	224.9	152.2	126.2	137.1	156.3
85°	518.4	936.4	1231.5	1192.3	1001.6	501.6	122.9	81.9	81.9	118.7	153.8
87.5°	106.2	192.3	260.9	249.2	224.1	97.0	60.2	49.3	50.2	96.1	145.5
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: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1357.8	1352.8	1349.4	1346.1	1342.7	1341.1	1338.6	1338.6	1333.6	1331.9	1330.2
5°	1363.7	1355.3	1349.4	1341.9	1336.1	1331.0	1324.4	1322.7	1316.8	1312.6	1311.0
7.5°	1388.7	1376.2	1363.7	1354.5	1346.1	1335.2	1327.7	1321.0	1315.2	1311.0	1306.0
10°	1436.4	1423.0	1405.5	1388.7	1377.9	1361.1	1349.4	1337.7	1331.0	1326.0	1319.3
12.5°	1506.6	1487.4	1466.5	1446.4	1428.0	1406.3	1394.6	1380.4	1372.0	1367.8	1362.8
15°	1578.5	1557.6	1531.7	1512.5	1491.6	1474.8	1464.0	1451.4	1444.8	1439.7	1436.4
17.5°	1652.1	1627.9	1609.5	1590.2	1580.2	1567.7	1553.4	1537.6	1518.3	1506.6	1490.7
20°	1727.3	1709.0	1698.1	1687.2	1675.5	1658.0	1629.5	1596.9	1561.0	1526.7	1494.1
22.5°	1815.1	1804.3	1802.6	1792.6	1768.3	1726.5	1673.8	1612.8	1551.8	1494.9	1450.6
25°	1938.9	1938.9	1930.5	1889.5	1832.7	1757.4	1668.8	1581.0	1499.9	1422.2	1363.7
27.5°	2094.4	2088.5	2047.6	1963.1	1861.1	1744.1	1625.3	1514.1	1410.5	1325.2	1249.9
30°	2265.8	2224.8	2137.0	2004.1	1851.1	1700.6	1555.1	1426.4	1304.3	1199.8	1111.2
32.5°	2443.9	2344.4	2186.4	2004.1	1816.0	1635.4	1467.3	1309.3	1169.7	1052.6	947.3
35°	2605.2	2423.8	2198.1	1971.5	1747.4	1539.2	1344.4	1165.5	998.3	872.0	756.7
37.5°	2751.5	2476.5	2185.5	1907.9	1647.9	1403.8	1175.5	978.2	789.3	667.2	568.5
40°	2846.9	2487.3	2133.7	1808.4	1505.8	1220.7	968.2	747.5	597.8	486.6	420.5
42.5°	2906.2	2466.4	2050.1	1672.2	1314.3	990.8	726.6	535.9	424.7	362.9	337.8
45°	2939.7	2412.1	1926.3	1485.7	1082.7	753.3	515.9	387.1	326.9	305.2	296.8
47.5°	2938.0	2324.3	1771.7	1270.0	826.9	525.1	365.4	301.8	285.1	278.4	276.7
50°	2920.4	2216.5	1590.2	1035.9	597.0	366.2	289.3	270.9	266.7	262.5	260.9
52.5°	2896.2	2082.7	1389.6	807.7	423.9	292.6	262.5	257.5	254.2	250.0	248.3
55°	2851.0	1918.0	1172.2	607.8	331.9	264.2	253.3	251.7	247.5	241.6	238.3
57.5°	2795.9	1750.8	964.0	474.9	293.5	257.5	251.7	249.2	243.3	236.6	229.9
60°	2775.8	1612.8	801.0	400.5	284.3	260.0	255.8	252.5	244.1	234.1	226.6
62.5°	2650.4	1457.3	683.9	371.2	289.3	270.9	269.2	264.2	251.7	240.0	228.3
65°	2326.0	1232.4	579.4	351.2	299.3	289.3	291.0	283.4	270.9	255.0	234.1
67°	1967.3	1005.0	482.4	331.9	306.8	308.5	314.4	308.5	292.6	270.1	241.6
67.5°	1872.0	947.3	458.2	326.1	308.5	313.5	320.2	316.0	300.2	274.2	245.0
70°	1391.2	667.2	342.0	295.1	308.5	328.6	343.6	347.8	330.3	294.3	251.7
72.5°	979.9	430.6	262.5	255.8	280.1	306.8	335.3	349.5	329.4	290.1	242.5
75°	588.6	269.2	213.2	217.4	235.8	263.4	285.9	291.8	266.7	241.6	209.9
77.5°	272.6	178.9	167.2	173.1	190.6	203.2	203.2	191.5	172.2	157.2	150.5
80°	160.5	146.3	145.5	156.3	168.1	158.9	144.6	128.8	118.7	113.7	111.2
82.5°	150.5	156.3	166.4	168.9	159.7	137.1	119.6	103.7	98.7	96.1	93.6
85°	177.2	189.8	173.1	159.7	141.3	115.4	93.6	80.3	77.8	75.2	71.9
87.5°	163.9	156.3	136.3	117.1	97.0	70.2	51.0	46.0	49.3	48.5	46.8
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: P158463

CATALOG NUMBER: VST-F06-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1331.0	1331.0	1327.7	1326.0	1330.2
5°	1307.6	1308.5	1306.0	1305.1	1306.0
7.5°	1302.6	1301.8	1300.1	1298.4	1300.1
10°	1317.7	1316.8	1314.3	1316.0	1313.5
12.5°	1362.8	1367.8	1367.0	1368.7	1372.0
15°	1436.4	1435.6	1433.0	1434.7	1437.2
17.5°	1478.2	1471.5	1465.7	1463.1	1463.1
20°	1468.2	1448.9	1438.9	1433.0	1431.4
22.5°	1408.8	1381.2	1360.3	1355.3	1351.1
25°	1311.8	1277.5	1250.8	1244.9	1234.1
27.5°	1198.9	1153.0	1121.2	1114.5	1108.6
30°	1051.0	998.3	961.5	938.1	945.6
32.5°	870.4	820.2	777.6	739.9	734.1
35°	672.2	617.0	579.4	562.7	551.8
37.5°	501.6	455.7	430.6	414.7	415.5
40°	383.8	359.5	346.1	335.3	336.1
42.5°	320.2	309.4	306.0	301.0	298.5
45°	290.1	286.8	287.6	282.6	280.9
47.5°	273.4	270.9	271.7	268.4	267.5
50°	260.0	258.3	259.2	256.7	255.8
52.5°	246.6	247.5	246.6	245.0	245.0
55°	234.9	234.1	235.8	233.3	233.3
57.5°	225.7	224.9	224.9	224.1	224.1
60°	220.7	217.4	216.5	216.5	217.4
62.5°	218.2	212.4	211.5	211.5	212.4
65°	219.1	209.9	206.5	205.7	204.8
67°	219.9	206.5	199.8	196.5	195.6
67.5°	220.7	204.8	197.3	194.0	192.3
70°	215.7	193.1	182.3	176.4	174.7
72.5°	203.2	178.9	165.5	158.0	156.3
75°	180.6	162.2	150.5	142.1	138.8
77.5°	139.6	131.3	127.1	122.1	120.4
80°	108.7	104.5	102.8	99.5	98.7
82.5°	90.3	86.1	83.6	79.4	76.9
85°	70.2	65.2	63.5	60.2	58.5
87.5°	46.0	43.5	42.6	38.5	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)