

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: P158220

Luminaire Tested: **VST-E04-LED-E-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158220
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E04-LED-E-U-SL2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12035.1 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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



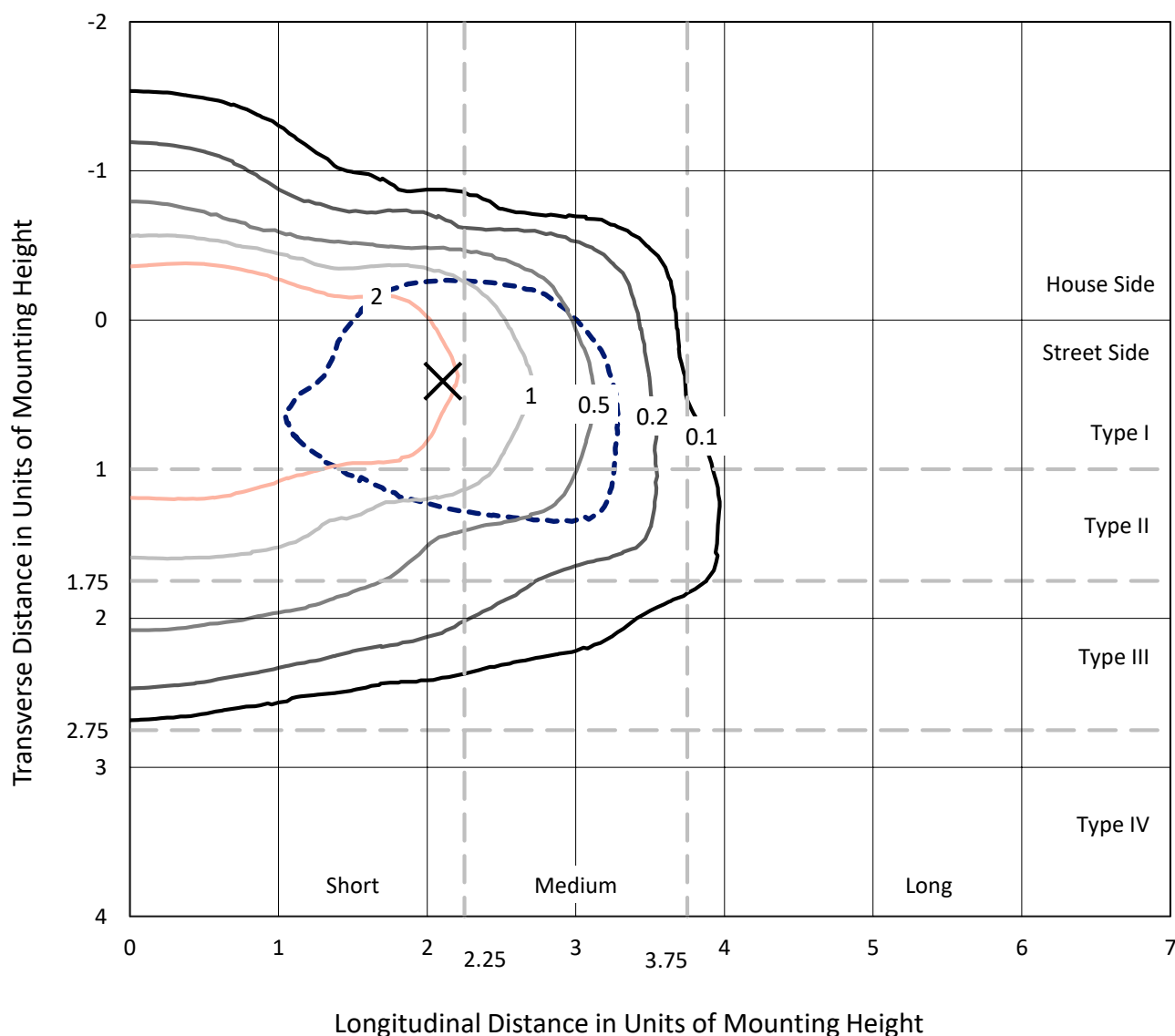
REPORT NUMBER: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

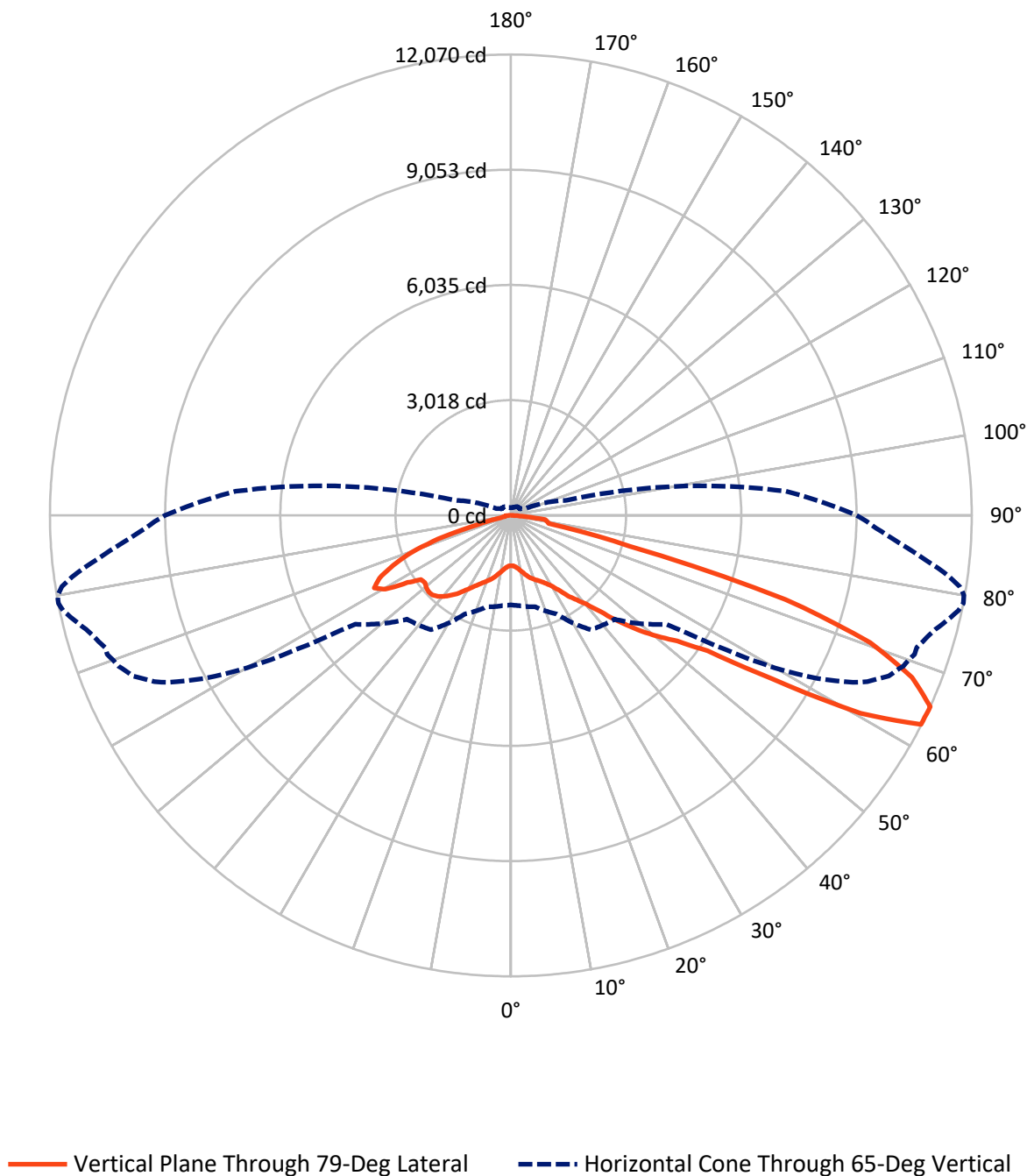


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

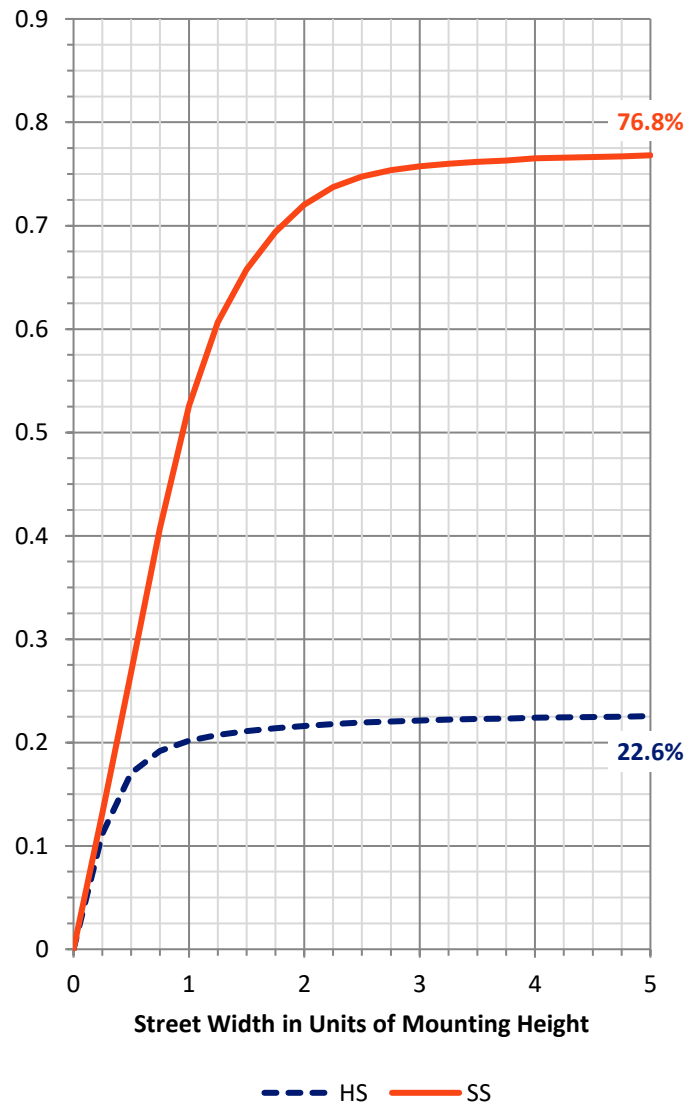
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.4	0.0	2765.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	9269.6	0.0	9269.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	12035.1	0.0	12035.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	1.1
10°-20°	423.1	3.5
20°-30°	729.4	6.1
30°-40°	1194.8	9.9
40°-50°	2000.9	16.6
50°-60°	2706.5	22.5
60°-70°	3333.0	27.7
70°-80°	1290.2	10.7
80°-90°	226.9	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°	12035.1	100.0
0°-180°	12035.1	100.0

Coefficient of Utilization



REPORT NUMBER: P158220

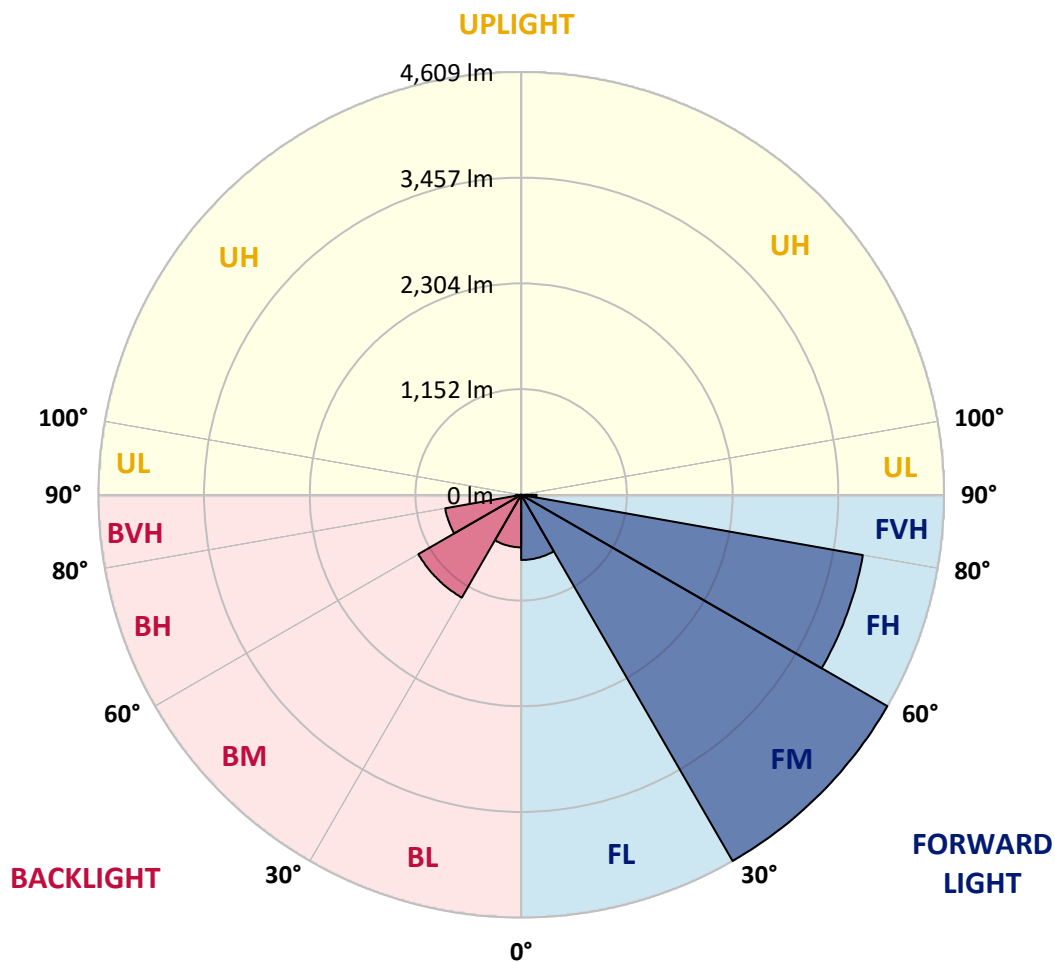
CATALOG NUMBER: VST-E04-LED-E-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.5	5.9			
FM	(30°-60°)	4608.9	38.3			
FH	(60°-80°)	3781.8	31.4			G2/5000
FVH	(80°-90°)	168.4	1.4			G2/225
BL	(0°-30°)	572.3	4.8	B2/1000		
BM	(30°-60°)	1293.2	10.7	B2/2500		
BH	(60°-80°)	841.3	7.0	B2/1000		G2/1000
BVH	(80°-90°)	58.5	0.5			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 II Short





REPORT NUMBER: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1319.2	1315.2	1319.2	1322.4	1324.8	1328.0	1327.2	1326.4	1325.6	1326.4	1326.4
5°	1330.4	1329.6	1333.6	1336.8	1342.4	1346.4	1351.2	1351.2	1351.2	1350.4	1352.0
7.5°	1366.4	1365.6	1369.6	1372.8	1377.6	1385.6	1392.0	1395.2	1394.4	1394.4	1394.4
10°	1425.6	1422.4	1422.4	1422.4	1428.8	1434.4	1448.8	1450.4	1453.6	1452.0	1452.8
12.5°	1483.2	1484.0	1481.6	1479.2	1480.0	1491.2	1512.0	1516.0	1516.8	1519.2	1520.8
15°	1535.2	1534.4	1528.8	1523.2	1530.4	1549.6	1576.8	1584.0	1584.0	1588.8	1592.0
17.5°	1583.2	1581.6	1571.2	1561.6	1568.8	1601.6	1644.0	1648.8	1656.0	1658.4	1661.6
20°	1640.0	1636.8	1624.8	1599.2	1599.2	1644.0	1700.0	1704.8	1711.2	1712.8	1718.4
22.5°	1719.2	1711.2	1685.6	1639.2	1626.4	1678.4	1747.2	1749.6	1754.4	1760.8	1765.6
25°	1808.8	1810.4	1768.8	1688.0	1660.0	1714.4	1792.8	1796.8	1805.6	1810.4	1816.0
27.5°	1901.6	1904.0	1857.6	1756.8	1709.6	1764.0	1854.4	1859.2	1869.6	1875.2	1884.0
30°	2007.2	2010.4	1965.6	1864.0	1792.0	1836.8	1945.6	1958.4	1967.2	1974.4	1988.8
32.5°	2260.8	2241.6	2210.4	2102.4	1988.8	1985.6	2092.8	2107.2	2119.2	2134.4	2148.0
35°	2580.0	2592.0	2608.0	2535.2	2435.2	2362.4	2371.2	2363.2	2374.4	2396.8	2410.4
37.5°	2832.8	2859.2	2928.8	2976.0	2972.0	2957.6	2823.2	2823.2	2830.4	2818.4	2816.8
40°	3031.2	3048.0	3190.4	3373.6	3528.0	3604.0	3497.6	3482.4	3490.4	3428.8	3431.2
42.5°	3133.6	3158.4	3363.2	3684.8	3991.2	4235.2	4202.4	4192.0	4168.0	4152.8	4143.2
45°	3185.6	3215.2	3459.2	3900.8	4347.2	4724.0	4893.6	4892.0	4870.4	4852.8	4844.8
47.5°	3159.2	3184.8	3444.8	3966.4	4534.4	5039.2	5414.4	5437.6	5431.2	5456.8	5467.2
50°	2986.4	3019.2	3280.0	3824.8	4456.0	5163.2	5775.2	5818.4	5876.8	5913.6	5962.4
52.5°	2830.4	2857.6	3092.8	3595.2	4198.4	5062.4	5992.8	6081.6	6161.6	6236.8	6295.2
55°	2667.2	2694.4	2900.8	3356.8	3938.4	4764.8	6092.0	6221.6	6346.4	6473.6	6590.4
57.5°	2605.6	2634.4	2788.0	3172.0	3725.6	4469.6	6140.8	6353.6	6556.8	6772.8	6996.8
60°	2765.6	2791.2	2908.0	3176.8	3563.2	4174.4	6042.4	6376.8	6726.4	7082.4	7426.4
62.5°	2716.8	2730.4	2876.0	3292.8	3770.4	3883.2	5616.0	6057.6	6565.6	7087.2	7614.4
65°	2344.0	2370.4	2480.0	2846.4	3654.4	3844.0	4966.4	5410.4	6009.6	6626.4	7332.8
67.5°	1681.6	1644.8	1729.6	2050.4	2835.2	3837.6	4235.2	4564.0	5033.6	5506.4	6085.6
70°	764.0	746.4	812.8	1066.4	1710.4	3032.8	3580.8	3692.0	3866.4	4184.8	4576.0
72.5°	301.6	300.8	344.0	440.8	808.8	1952.0	3011.2	3075.2	3136.8	3275.2	3444.0
75°	197.6	197.6	210.4	237.6	398.4	942.4	2547.2	2605.6	2700.0	2739.2	2811.2
77.5°	148.8	149.6	155.2	161.6	220.0	496.0	1797.6	2004.8	2164.8	2284.0	2371.2
80°	105.6	110.4	120.8	124.8	143.2	282.4	1016.0	1165.6	1346.4	1539.2	1781.6
82.5°	79.2	84.8	102.4	107.2	113.6	160.8	458.4	520.0	607.2	787.2	1132.0
85°	36.8	40.8	70.4	76.8	82.4	92.8	232.8	260.0	295.2	323.2	376.8
87.5°	5.6	4.0	12.0	16.8	26.4	27.2	80.0	95.2	103.2	124.0	128.8
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: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1326.4	1327.2	1328.0	1326.4	1327.2	1327.2	1325.6	1324.8	1324.8	1324.8	1325.6
5°	1352.0	1353.6	1352.0	1352.8	1356.0	1355.2	1353.6	1352.8	1356.0	1356.8	1354.4
7.5°	1397.6	1398.4	1395.2	1399.2	1400.8	1401.6	1401.6	1403.2	1403.2	1405.6	1403.2
10°	1456.0	1456.0	1461.6	1460.8	1461.6	1463.2	1464.0	1467.2	1469.6	1469.6	1471.2
12.5°	1523.2	1524.0	1529.6	1530.4	1533.6	1534.4	1539.2	1536.0	1544.0	1544.0	1546.4
15°	1592.8	1598.4	1599.2	1607.2	1608.8	1609.6	1616.0	1616.0	1621.6	1622.4	1624.0
17.5°	1661.6	1666.4	1669.6	1676.0	1681.6	1684.0	1686.4	1691.2	1695.2	1696.8	1700.8
20°	1720.8	1725.6	1728.8	1735.2	1740.0	1744.0	1746.4	1752.0	1756.0	1757.6	1763.2
22.5°	1770.4	1773.6	1779.2	1788.0	1789.6	1794.4	1801.6	1805.6	1807.2	1812.0	1818.4
25°	1823.2	1828.0	1831.2	1839.2	1845.6	1853.6	1860.0	1866.4	1868.0	1874.4	1880.0
27.5°	1893.6	1898.4	1899.2	1915.2	1921.6	1932.8	1940.0	1949.6	1954.4	1960.0	1971.2
30°	1997.6	2008.8	2013.6	2032.0	2035.2	2048.0	2060.8	2064.0	2071.2	2072.0	2090.4
32.5°	2156.8	2172.8	2179.2	2198.4	2203.2	2215.2	2222.4	2239.2	2240.0	2248.0	2252.0
35°	2417.6	2413.6	2438.4	2443.2	2457.6	2468.0	2475.2	2475.2	2490.4	2491.2	2496.0
37.5°	2773.6	2765.6	2772.0	2743.2	2750.4	2737.6	2735.2	2738.4	2732.0	2733.6	2732.8
40°	3343.2	3307.2	3269.6	3180.8	3161.6	3124.8	3096.0	3072.8	3050.4	3026.4	3010.4
42.5°	4057.6	4005.6	3949.6	3807.2	3740.8	3669.6	3600.0	3560.0	3480.0	3431.2	3404.8
45°	4806.4	4745.6	4667.2	4548.8	4454.4	4378.4	4251.2	4191.2	4067.2	4005.6	3922.4
47.5°	5420.0	5420.8	5357.6	5237.6	5136.8	5086.4	5007.2	4891.2	4750.4	4671.2	4523.2
50°	5956.8	5956.0	5952.0	5880.0	5809.6	5754.4	5684.8	5580.0	5464.8	5375.2	5205.6
52.5°	6353.6	6406.4	6428.8	6428.0	6419.2	6393.6	6340.8	6250.4	6133.6	6083.2	5948.0
55°	6681.6	6796.8	6856.8	6988.0	7000.0	7042.4	6996.0	6996.8	6928.0	6932.8	6889.6
57.5°	7178.4	7388.8	7509.6	7800.0	7945.6	8121.6	8090.4	8237.6	8291.2	8359.2	8449.6
60°	7742.4	8135.2	8421.6	8999.2	9234.4	9519.2	9676.0	9843.2	9964.8	10089.6	10181.6
62.5°	8145.6	8661.6	9132.0	9955.2	10260.8	10560.8	10758.4	10960.8	11097.6	11187.2	11253.6
65°	7980.8	8551.2	9107.2	9970.4	10303.2	10520.8	10756.0	10872.8	11009.6	11084.0	11179.2
67.5°	6781.6	7353.6	7949.6	8968.0	9316.0	9616.8	9800.0	9951.2	10061.6	10156.0	10265.6
70°	5043.2	5668.8	6284.8	7401.6	7840.8	8275.2	8491.2	8678.4	8793.6	8888.8	9009.6
72.5°	3629.6	4021.6	4406.4	5656.8	6096.0	6657.6	6881.6	7089.6	7239.2	7234.4	7362.4
75°	2889.6	3048.8	3220.0	3865.6	4180.8	4654.4	4780.0	4896.8	4826.4	4691.2	4683.2
77.5°	2405.6	2471.2	2528.8	2731.2	2777.6	2890.4	2828.0	2763.2	2554.4	2378.4	2285.6
80°	1952.8	2082.4	2167.2	2311.2	2370.4	2404.0	2412.8	2390.4	2313.6	2207.2	2037.6
82.5°	1452.0	1698.4	1866.4	2149.6	2253.6	2275.2	2316.8	2291.2	2240.8	2154.4	2032.8
85°	425.6	481.6	552.0	748.8	877.6	987.2	1099.2	1154.4	1188.8	1140.8	1015.2
87.5°	149.6	168.8	188.8	260.0	276.8	334.4	328.0	387.2	389.6	406.4	388.8
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: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1324.8	1324.8	1324.8	1325.6	1325.6	1325.6	1324.0	1323.2	1324.0	1325.6	1325.6
5°	1356.0	1356.8	1358.4	1355.2	1356.0	1358.4	1356.8	1356.0	1356.8	1358.4	1356.8
7.5°	1406.4	1407.2	1405.6	1408.8	1408.8	1410.4	1412.8	1410.4	1411.2	1412.0	1412.8
10°	1472.0	1472.8	1474.4	1476.8	1477.6	1479.2	1480.8	1483.2	1483.2	1481.6	1485.6
12.5°	1550.4	1549.6	1551.2	1554.4	1556.0	1558.4	1563.2	1563.2	1566.4	1565.6	1569.6
15°	1627.2	1631.2	1632.0	1637.6	1640.0	1644.0	1649.6	1652.8	1652.8	1657.6	1659.2
17.5°	1704.0	1707.2	1710.4	1715.2	1718.4	1720.8	1727.2	1731.2	1730.4	1739.2	1739.2
20°	1763.2	1769.6	1773.6	1776.8	1782.4	1786.4	1791.2	1796.0	1799.2	1804.8	1806.4
22.5°	1820.8	1824.8	1830.4	1834.4	1840.8	1845.6	1851.2	1855.2	1860.8	1868.0	1870.4
25°	1884.8	1891.2	1897.6	1903.2	1908.0	1913.6	1923.2	1932.0	1940.0	1946.4	1948.8
27.5°	1973.6	1980.8	1990.4	1994.4	2001.6	2006.4	2020.8	2032.0	2036.0	2047.2	2050.4
30°	2093.6	2101.6	2111.2	2116.0	2128.8	2135.2	2150.4	2162.4	2166.4	2180.0	2182.4
32.5°	2267.2	2272.0	2291.2	2290.4	2308.0	2326.4	2335.2	2344.8	2362.4	2369.6	2372.0
35°	2508.0	2519.2	2532.8	2532.0	2554.4	2564.8	2582.4	2592.8	2605.6	2604.8	2618.4
37.5°	2740.8	2744.8	2749.6	2760.0	2776.0	2790.4	2796.8	2807.2	2816.8	2831.2	2848.8
40°	2994.4	3004.0	3004.8	3010.4	3018.4	3036.8	3048.8	3060.0	3092.8	3113.6	3124.0
42.5°	3374.4	3372.0	3356.0	3366.4	3371.2	3399.2	3408.0	3442.4	3479.2	3523.2	3535.2
45°	3863.2	3831.2	3821.6	3817.6	3843.2	3857.6	3893.6	3957.6	3996.0	4037.6	4057.6
47.5°	4464.8	4364.8	4317.6	4307.2	4333.6	4395.2	4407.2	4470.4	4520.8	4551.2	4571.2
50°	5067.2	4988.8	4889.6	4856.0	4848.8	4905.6	4919.2	4972.0	5023.2	5032.0	5021.6
52.5°	5824.0	5696.0	5532.0	5472.8	5425.6	5429.6	5440.8	5463.2	5496.0	5482.4	5454.4
55°	6792.0	6646.4	6565.6	6453.6	6382.4	6369.6	6320.8	6253.6	6251.2	6260.0	6176.0
57.5°	8404.0	8343.2	8377.6	8365.6	8295.2	8337.6	8117.6	8055.2	8005.6	7919.2	7841.6
60°	10263.2	10325.6	10396.8	10560.8	10553.6	10718.4	10565.6	10527.2	10480.8	10214.4	10084.0
62.5°	11369.6	11394.4	11499.2	11652.0	11802.4	11960.0	12031.2	12056.0	11959.2	11741.6	11469.6
65°	11176.8	11286.4	11388.0	11520.0	11674.4	11832.0	11982.4	12070.4	12048.0	11904.0	11604.8
67.5°	10300.8	10416.0	10564.8	10703.2	10869.6	11006.4	11171.2	11332.8	11337.6	11265.6	11057.6
70°	9022.4	9156.0	9309.6	9387.2	9567.2	9691.2	9828.0	9988.0	10040.0	10048.8	9806.4
72.5°	7335.2	7391.2	7466.4	7425.6	7461.6	7540.8	7504.0	7516.8	7319.2	7356.0	7056.8
75°	4467.2	4416.0	4188.8	3981.6	3728.8	3534.4	3580.8	3209.6	2844.0	2825.6	2561.6
77.5°	2265.6	2184.0	2043.2	1896.8	1682.4	1436.8	1232.0	1011.2	824.8	718.4	616.8
80°	1929.6	1872.0	1794.4	1688.0	1532.0	1350.4	1136.8	968.8	812.8	650.4	520.8
82.5°	1846.4	1670.4	1557.6	1468.8	1300.0	1132.0	1015.2	900.0	789.6	689.6	546.4
85°	916.0	810.4	685.6	608.0	468.0	366.4	343.2	282.4	263.2	203.2	171.2
87.5°	308.0	252.0	188.0	158.4	126.4	103.2	101.6	90.4	89.6	81.6	75.2
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: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1324.8	1326.4	1326.4	1324.8	1325.6	1324.0	1324.8	1325.6	1323.2	1322.4	1320.0
5°	1357.6	1356.8	1356.8	1357.6	1360.0	1360.8	1356.8	1358.4	1359.2	1355.2	1346.4
7.5°	1412.0	1412.0	1414.4	1413.6	1418.4	1416.8	1416.0	1416.0	1416.0	1408.0	1393.6
10°	1485.6	1485.6	1488.0	1491.2	1492.0	1490.4	1490.4	1491.2	1495.2	1479.2	1456.8
12.5°	1568.0	1572.0	1571.2	1571.2	1580.8	1578.4	1575.2	1578.4	1582.4	1560.0	1528.0
15°	1660.0	1662.4	1664.0	1669.6	1668.0	1673.6	1675.2	1673.6	1677.6	1648.8	1595.2
17.5°	1743.2	1748.0	1749.6	1756.0	1756.0	1756.8	1763.2	1760.8	1761.6	1728.8	1652.0
20°	1812.0	1816.8	1819.2	1826.4	1828.0	1831.2	1833.6	1835.2	1839.2	1800.0	1698.4
22.5°	1880.8	1884.8	1888.8	1893.6	1900.0	1904.0	1907.2	1908.8	1916.0	1870.4	1742.4
25°	1957.6	1966.4	1970.4	1978.4	1984.8	1991.2	1996.0	1996.8	2008.8	1952.0	1778.4
27.5°	2060.0	2072.0	2078.4	2091.2	2097.6	2104.0	2102.4	2112.0	2128.8	2045.6	1806.4
30°	2194.4	2209.6	2213.6	2226.4	2236.8	2243.2	2250.4	2258.4	2269.6	2149.6	1820.0
32.5°	2381.6	2404.8	2410.4	2417.6	2432.8	2444.0	2448.8	2461.6	2464.8	2248.0	1816.0
35°	2638.4	2628.0	2655.2	2661.6	2683.2	2692.0	2697.6	2714.4	2701.6	2355.2	1789.6
37.5°	2870.4	2867.2	2893.6	2908.0	2936.0	2929.6	2943.2	2954.4	2908.8	2431.2	1740.8
40°	3153.6	3149.6	3186.4	3191.2	3234.4	3224.8	3230.4	3239.2	3137.6	2484.0	1652.0
42.5°	3548.8	3550.4	3589.6	3594.4	3600.0	3617.6	3588.8	3590.4	3380.8	2498.4	1505.6
45°	4069.6	4097.6	4073.6	4074.4	4072.8	4039.2	4003.2	3960.8	3633.6	2448.8	1316.8
47.5°	4574.4	4555.2	4524.8	4496.8	4473.6	4420.8	4368.0	4296.0	3852.0	2331.2	1106.4
50°	5006.4	4963.2	4936.0	4858.4	4803.2	4734.4	4660.8	4578.4	4031.2	2161.6	909.6
52.5°	5408.0	5363.2	5261.6	5180.8	5101.6	5010.4	4924.8	4828.0	4189.6	1968.0	759.2
55°	6075.2	6036.0	5934.4	5786.4	5688.8	5563.2	5450.4	5319.2	4510.4	1811.2	660.0
57.5°	7628.0	7594.4	7380.8	7287.2	7158.4	6843.2	6796.8	6592.0	5370.4	1792.8	601.6
60°	9814.4	9670.4	9492.8	9236.8	8935.2	8831.2	8599.2	8326.4	6754.4	1843.2	554.4
62.5°	11156.8	10828.8	10568.0	10272.8	9995.2	9756.8	9503.2	9233.6	7462.4	1776.8	496.0
65°	11257.6	10872.0	10527.2	10180.8	9868.8	9572.0	9325.6	9056.0	7232.0	1527.2	420.0
67.5°	10702.4	10296.0	9920.0	9527.2	9212.0	8944.0	8630.4	8371.2	6582.4	1188.8	349.6
70°	9557.6	9200.8	8876.8	8453.6	8192.0	7865.6	7666.4	7342.4	5737.6	810.4	288.8
72.5°	6884.0	6615.2	6509.6	6214.4	5872.0	5680.0	5588.0	5273.6	4240.0	503.2	236.0
75°	2325.6	2392.0	2240.0	2007.2	2120.8	1945.6	2016.8	1867.2	1793.6	288.8	198.4
77.5°	516.0	484.8	448.0	416.0	413.6	388.8	412.0	389.6	416.8	184.0	175.2
80°	407.2	321.6	273.6	249.6	236.8	229.6	224.0	217.6	198.4	156.8	161.6
82.5°	440.0	332.0	243.2	194.4	166.4	156.0	153.6	147.2	145.6	152.0	163.2
85°	140.8	117.6	100.0	94.4	87.2	83.2	81.6	79.2	96.0	165.6	156.8
87.5°	73.6	64.8	57.6	55.2	48.0	44.8	44.0	44.8	67.2	165.6	113.6
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: P158220

CATALOG NUMBER: VST-E04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8	1316.8
2.5°	1317.6	1316.8	1315.2	1314.4	1313.6	1309.6	1312.8
5°	1342.4	1334.4	1327.2	1318.4	1313.6	1309.6	1309.6
7.5°	1380.0	1357.6	1339.2	1319.2	1305.6	1295.2	1293.6
10°	1427.2	1384.0	1341.6	1305.6	1280.0	1260.8	1258.4
12.5°	1472.0	1406.4	1339.2	1280.0	1240.0	1212.8	1211.2
15°	1513.6	1418.4	1320.8	1233.6	1173.6	1137.6	1133.6
17.5°	1546.4	1411.2	1279.2	1168.8	1087.2	1044.8	1042.4
20°	1553.6	1382.4	1220.0	1088.8	1002.4	957.6	947.2
22.5°	1547.2	1330.4	1146.4	1000.8	901.6	856.8	851.2
25°	1528.0	1267.2	1055.2	898.4	806.4	760.8	749.6
27.5°	1493.6	1192.8	956.8	799.2	708.0	664.0	652.8
30°	1442.4	1103.2	852.0	706.4	612.0	576.8	565.6
32.5°	1371.2	994.4	748.8	611.2	532.8	504.8	500.0
35°	1272.8	869.6	640.8	532.8	475.2	458.4	456.0
37.5°	1147.2	744.8	550.4	476.8	435.2	424.8	423.2
40°	983.2	616.8	486.4	436.8	406.4	397.6	396.0
42.5°	814.4	520.8	439.2	404.8	380.0	372.0	369.6
45°	666.4	456.0	404.0	378.4	355.2	346.4	345.6
47.5°	556.0	418.4	375.2	354.4	331.2	320.8	321.6
50°	475.2	384.0	351.2	333.6	307.2	297.6	298.4
52.5°	420.0	349.6	328.8	308.8	286.4	276.8	276.8
55°	376.8	321.6	307.2	285.6	268.0	259.2	258.4
57.5°	341.6	299.2	286.4	268.8	251.2	240.8	240.8
60°	320.0	283.2	272.8	256.8	236.0	224.8	224.0
62.5°	307.2	278.4	269.6	247.2	224.0	212.8	210.4
65°	297.6	289.6	278.4	241.6	214.4	202.4	200.0
67.5°	298.4	316.0	300.0	244.8	211.2	193.6	190.4
70°	303.2	336.8	315.2	252.0	224.8	189.6	182.4
72.5°	279.2	304.8	284.0	240.0	219.2	182.4	173.6
75°	232.8	222.4	204.0	195.2	196.8	165.6	162.4
77.5°	188.8	165.6	148.0	155.2	165.6	141.6	138.4
80°	164.0	134.4	125.6	137.6	150.4	120.8	112.8
82.5°	153.6	113.6	108.0	143.2	157.6	104.0	91.2
85°	135.2	92.8	84.8	168.8	157.6	78.4	72.8
87.5°	90.4	55.2	52.8	124.0	108.0	54.4	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)