

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: P158888

Luminaire Tested: **VST-E05-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158888
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E05-LED-E-U-SLL-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11340.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 127.3
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



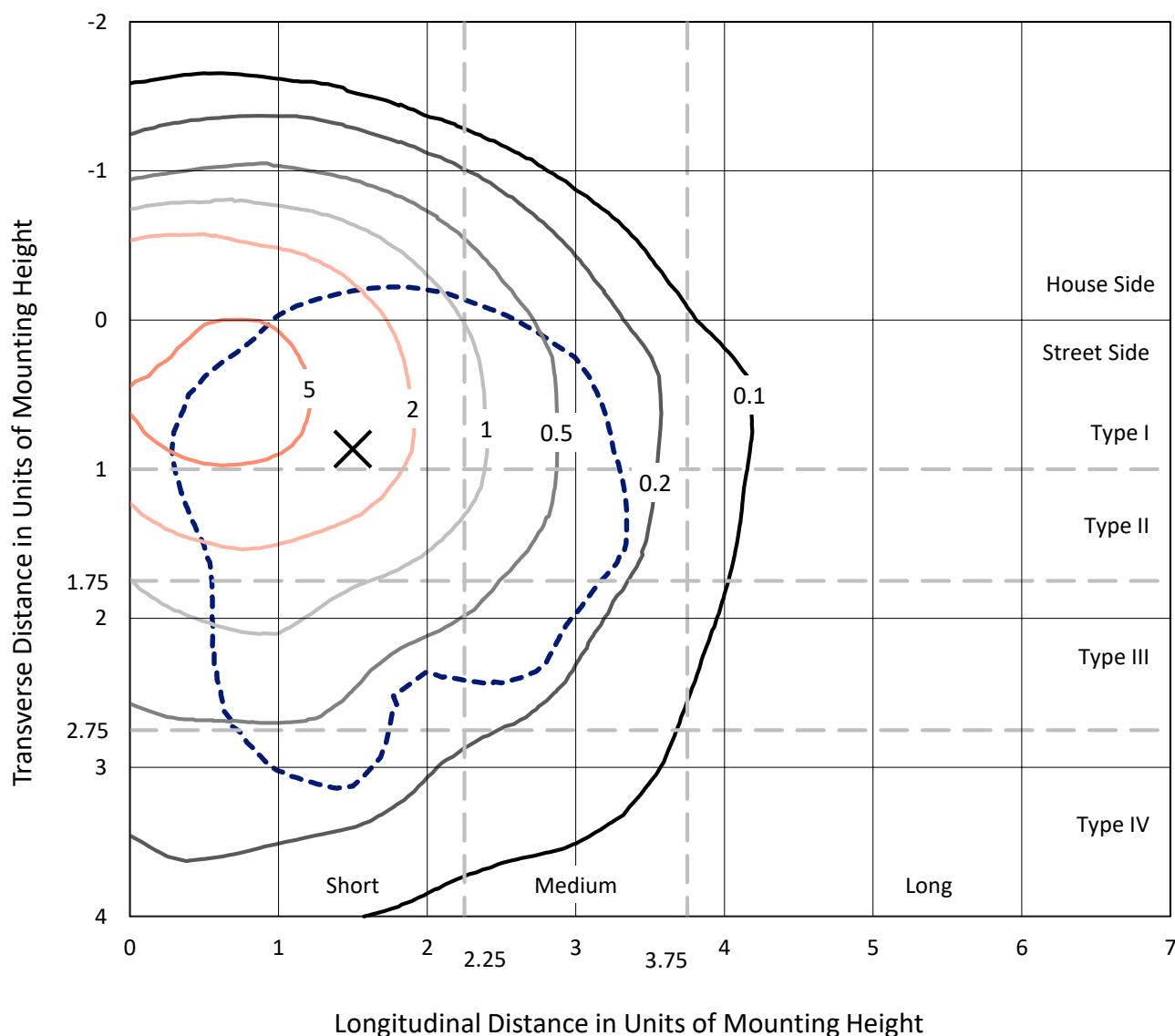
REPORT NUMBER: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

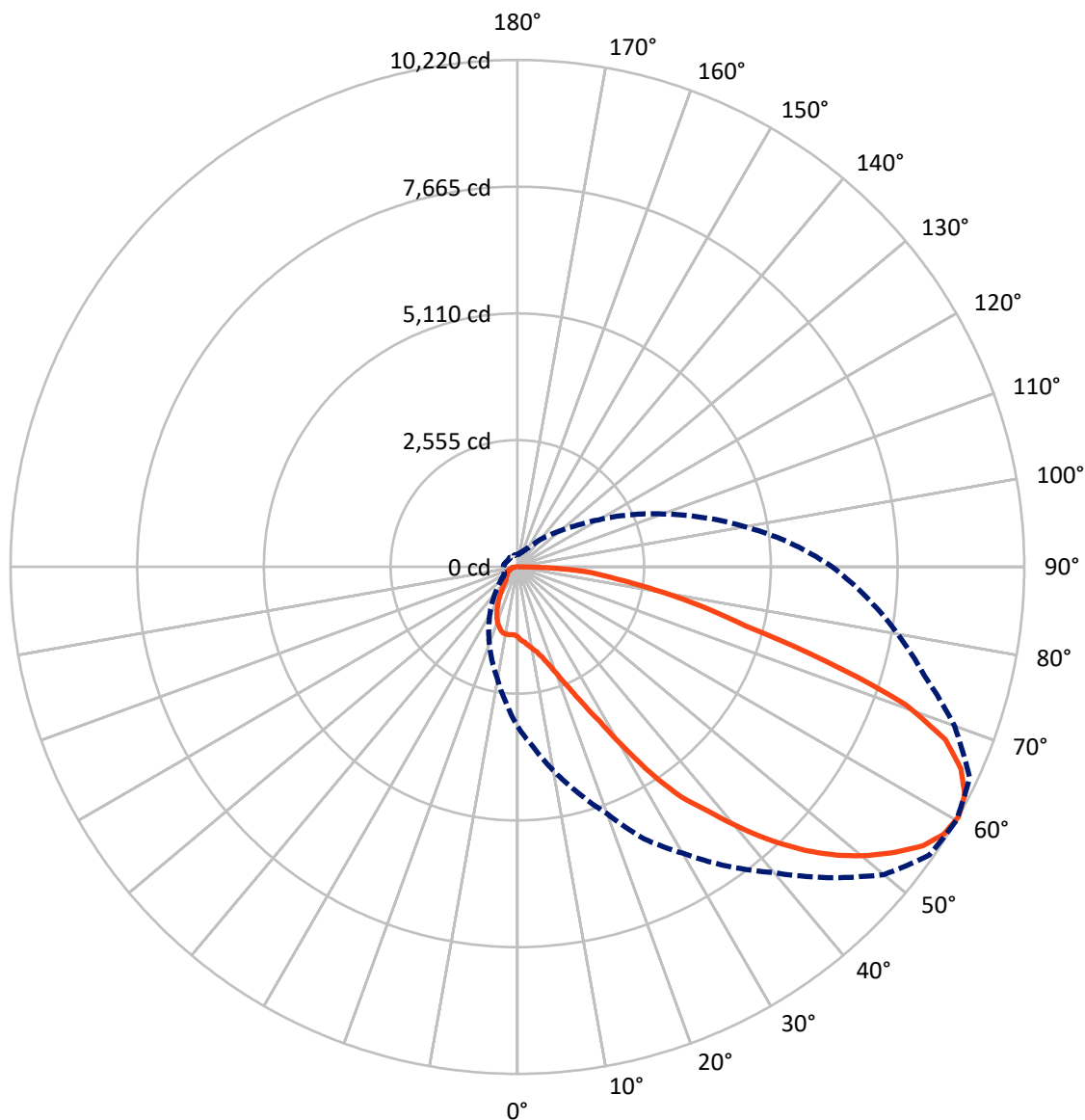


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

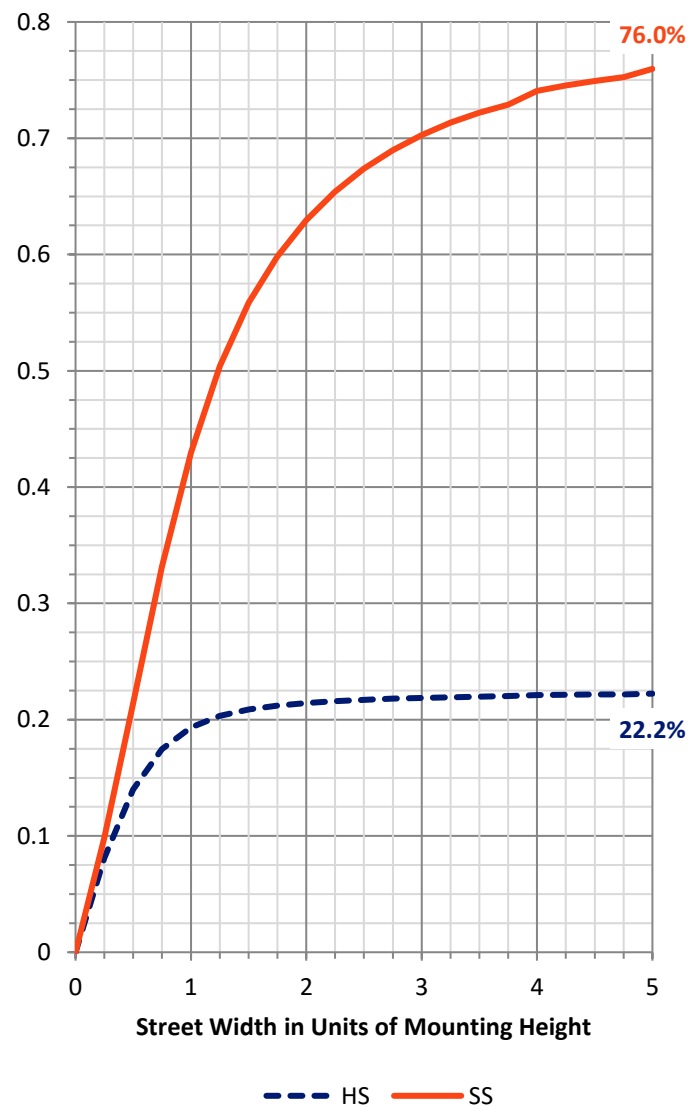
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2553.5	0.0	2553.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8786.7	0.0	8786.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	11340.2	0.0	11340.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.2
10°-20°	449.2	4.0
20°-30°	852.5	7.5
30°-40°	1342.5	11.8
40°-50°	1873.8	16.5
50°-60°	2317.5	20.4
60°-70°	2402.2	21.2
70°-80°	1511.5	13.3
80°-90°	451.8	4.0
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°	11340.2	100.0
0°-180°	11340.2	100.0

Coefficient of Utilization



REPORT NUMBER: P158888

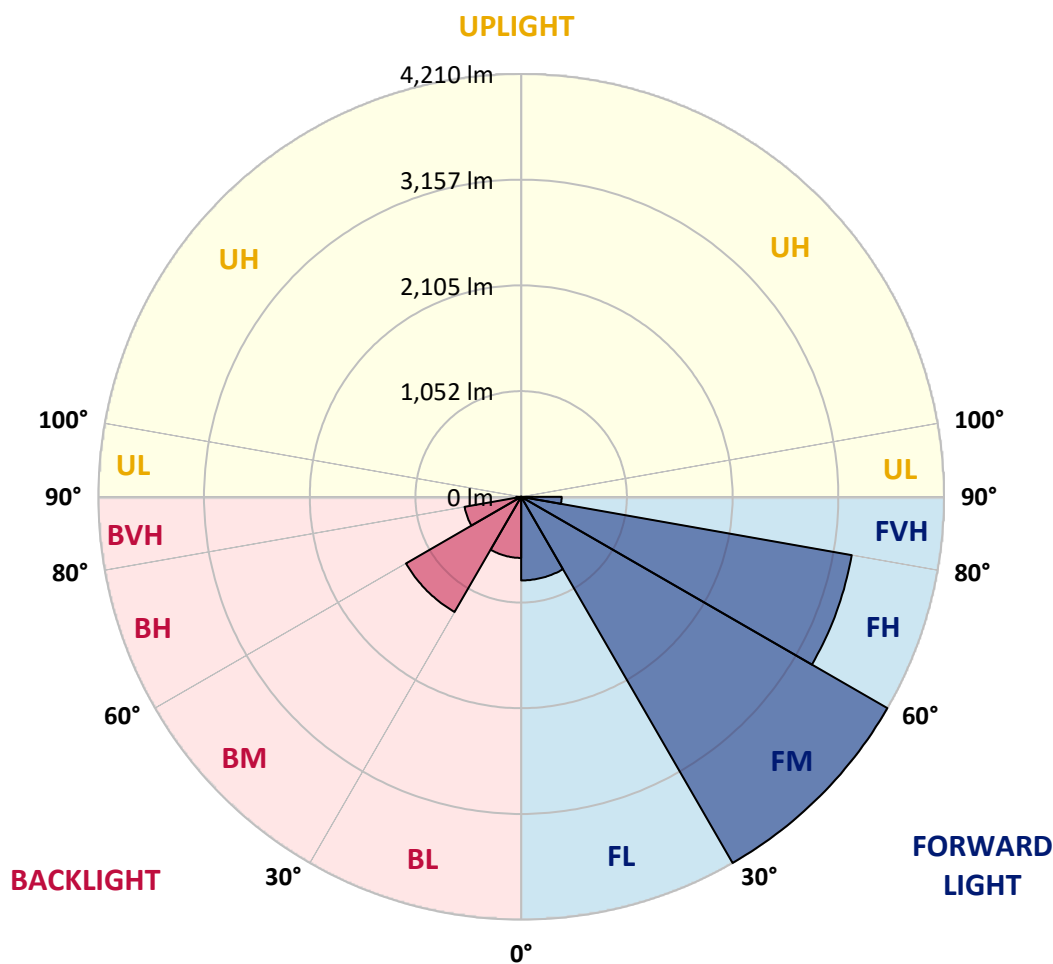
CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	832.5	7.3			
FM	(30°-60°)	4209.7	37.1			
FH	(60°-80°)	3341.9	29.5			G2/5000
FVH	(80°-90°)	402.7	3.6			G3/500
BL	(0°-30°)	608.3	5.4	B2/1000		
BM	(30°-60°)	1324.1	11.7	B2/2500		
BH	(60°-80°)	571.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.2	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 IV Short





REPORT NUMBER: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1493.9	1492.2	1492.2	1492.2	1491.3	1489.6	1492.2	1491.3	1487.1	1484.6	1487.1
5°	1513.3	1514.1	1516.7	1517.5	1517.5	1520.0	1526.8	1527.6	1526.8	1528.5	1532.7
7.5°	1531.8	1536.1	1538.6	1542.8	1547.9	1552.1	1563.9	1575.7	1583.3	1589.2	1590.9
10°	1562.2	1569.0	1576.6	1587.5	1599.4	1620.5	1630.6	1642.4	1650.0	1661.8	1664.4
12.5°	1639.9	1648.3	1653.4	1670.3	1685.4	1705.7	1720.1	1723.4	1741.2	1751.3	1763.1
15°	1770.7	1783.4	1801.1	1811.2	1828.1	1845.8	1858.5	1875.3	1877.9	1891.4	1900.7
17.5°	1931.1	1948.8	1985.1	2009.5	2031.5	2049.2	2074.5	2093.9	2098.2	2113.4	2093.9
20°	2155.6	2198.6	2204.5	2253.5	2272.9	2308.3	2359.0	2368.2	2392.7	2368.2	2353.9
22.5°	2459.4	2526.9	2545.5	2592.7	2616.4	2670.4	2685.6	2735.4	2752.3	2733.7	2694.9
25°	2808.8	2913.5	2967.5	3040.1	3051.9	3162.4	3174.2	3232.5	3201.3	3156.5	3157.4
27.5°	3066.2	3244.3	3383.6	3507.6	3594.6	3719.5	3816.5	3843.5	3814.0	3755.8	3735.5
30°	3213.1	3414.8	3614.8	3786.1	3988.7	4179.4	4377.8	4476.5	4493.4	4523.8	4401.4
32.5°	3307.6	3566.7	3804.7	4016.6	4224.2	4469.8	4735.6	4989.7	5203.2	5364.4	5288.4
35°	3386.9	3706.8	4011.5	4268.1	4513.7	4781.2	5049.6	5349.2	5702.8	5909.6	5952.7
37.5°	3419.0	3809.8	4182.8	4512.0	4857.2	5158.5	5425.2	5691.9	6063.2	6432.1	6546.0
40°	3413.1	3860.4	4284.9	4698.5	5121.3	5497.8	5810.0	6125.7	6560.3	6991.6	7177.3
42.5°	3373.4	3868.0	4349.9	4822.6	5304.5	5805.0	6204.2	6567.9	6984.9	7537.7	7800.2
45°	3323.6	3841.8	4363.4	4885.9	5440.4	6019.3	6524.0	6973.9	7462.6	8008.6	8326.0
47.5°	3256.1	3800.5	4346.6	4907.8	5501.1	6156.9	6750.2	7291.2	7828.9	8457.6	8860.2
50°	3182.7	3741.4	4311.9	4891.8	5516.3	6232.0	6879.4	7495.5	8123.4	8802.0	9310.9
52.5°	3131.2	3678.1	4280.7	4858.9	5501.1	6254.8	6926.6	7605.2	8304.0	9005.4	9613.1
55°	3067.9	3593.7	4197.2	4782.1	5445.4	6242.2	6921.6	7643.2	8353.8	9083.9	9777.6
57.5°	3072.1	3554.9	4126.3	4690.1	5331.5	6124.8	6826.2	7605.2	8275.3	9033.2	9783.5
60°	3205.5	3638.4	4163.4	4708.6	5297.7	6050.6	6664.2	7360.4	8044.9	8858.5	9646.8
62.5°	3480.6	3877.3	4354.1	4894.3	5487.6	6199.1	6590.7	6953.6	7561.3	8537.0	9413.9
65°	3808.9	4166.8	4580.3	5094.3	5759.4	6440.5	6549.4	6622.8	6930.0	7911.6	8976.7
67.5°	4137.2	4457.1	4782.1	5208.3	5913.8	6509.7	6380.6	6205.9	6371.3	7184.9	8117.5
70°	4255.4	4679.9	4893.5	5186.3	5796.5	6348.5	6108.0	5668.2	5725.6	6465.0	7146.9
72.5°	4078.2	4683.3	4754.2	4863.1	5274.1	5793.2	5539.1	4973.6	4961.8	5526.5	6077.6
75°	3420.7	4272.3	4271.4	4230.9	4323.8	4619.2	4487.5	4146.5	4290.8	4735.6	4917.1
77.5°	2438.3	3333.8	3376.0	3103.4	3096.6	3230.0	3309.3	3706.0	4229.2	4479.1	4421.7
80°	1531.8	2249.2	2430.7	2093.9	2022.2	2211.3	2701.6	3278.9	3922.9	4147.4	3954.1
82.5°	922.5	1449.1	1835.7	1644.9	1628.1	1972.4	2514.2	2738.8	2932.0	3170.9	2847.6
85°	626.2	965.5	1255.9	1293.8	1441.5	1797.7	2033.2	1933.6	1938.6	1876.2	1709.1
87.5°	119.8	263.3	430.4	525.0	582.4	782.4	850.7	770.6	813.6	595.0	650.7
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: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1482.9	1482.9	1482.9	1478.7	1479.5	1473.6	1471.1	1471.1	1468.5	1468.5	1467.7
5°	1529.3	1524.2	1526.8	1525.9	1525.9	1517.5	1513.3	1513.3	1502.3	1503.1	1499.8
7.5°	1598.5	1597.7	1600.2	1595.1	1588.4	1581.6	1574.9	1571.5	1556.3	1547.0	1541.1
10°	1677.0	1676.2	1678.7	1677.9	1666.0	1653.4	1634.8	1621.3	1602.7	1588.4	1574.0
12.5°	1763.1	1762.3	1760.6	1753.0	1740.3	1720.1	1696.4	1673.6	1645.8	1627.2	1606.1
15°	1897.3	1894.8	1884.6	1873.7	1860.2	1828.9	1787.6	1754.7	1717.5	1685.4	1650.8
17.5°	2095.6	2074.5	2072.8	2048.4	2012.1	1970.7	1931.9	1877.0	1823.9	1775.8	1728.5
20°	2369.1	2320.1	2306.6	2278.8	2230.7	2187.6	2103.2	2029.8	1957.2	1891.4	1831.5
22.5°	2667.0	2631.6	2598.6	2553.1	2487.2	2424.8	2317.6	2225.6	2132.8	2048.4	1981.7
25°	3083.1	3021.5	2962.4	2889.8	2798.7	2724.4	2602.0	2509.2	2387.7	2310.8	2214.6
27.5°	3620.7	3515.2	3415.6	3353.2	3192.8	3084.8	2928.6	2808.8	2661.9	2558.1	2444.2
30°	4320.4	4198.0	4050.3	3834.3	3643.5	3429.1	3235.9	3082.3	2926.1	2781.0	2649.3
32.5°	5188.0	4972.0	4738.2	4395.5	4082.4	3776.9	3519.4	3330.4	3170.9	2990.3	2804.6
35°	5921.4	5698.6	5366.9	4931.4	4544.9	4195.5	3887.4	3629.2	3420.7	3192.0	2946.4
37.5°	6500.4	6246.4	5934.9	5472.4	5063.9	4666.4	4343.2	4014.0	3740.6	3425.8	3115.2
40°	7163.8	6908.9	6566.2	6086.9	5603.3	5172.0	4793.0	4452.9	4117.0	3733.0	3333.8
42.5°	7741.9	7557.9	7211.1	6715.6	6179.7	5699.5	5285.1	4896.0	4457.1	4027.5	3554.9
45°	8344.5	8157.2	7828.0	7309.8	6740.1	6205.0	5709.6	5291.0	4772.8	4261.3	3720.3
47.5°	8877.1	8684.7	8352.1	7837.3	7232.2	6668.4	6123.2	5616.8	5015.0	4427.6	3828.3
50°	9385.2	9149.7	8845.0	8331.9	7685.4	7082.8	6491.1	5841.3	5203.2	4544.0	3901.8
52.5°	9851.9	9552.3	9263.6	8735.3	8036.5	7406.9	6746.9	6032.0	5318.8	4636.0	3951.6
55°	10116.9	9923.6	9578.5	9059.4	8286.3	7629.7	6908.9	6166.2	5433.6	4701.0	3972.7
57.5°	10198.8	10151.5	9862.0	9246.8	8433.2	7752.1	7018.6	6272.5	5510.4	4719.6	3943.1
60°	10133.8	10219.9	10061.2	9378.4	8499.8	7788.3	7072.6	6348.5	5523.9	4660.5	3853.7
62.5°	9925.3	10121.1	10100.9	9422.3	8465.2	7742.8	7066.7	6309.7	5397.3	4476.5	3652.8
65°	9582.7	9829.1	9916.0	9259.4	8270.3	7576.5	6916.5	6065.8	5045.4	4117.0	3316.0
67.5°	8937.9	9310.9	9395.3	8726.0	7760.5	7116.5	6483.5	5559.4	4393.8	3560.8	2790.2
70°	7645.7	8298.1	8412.1	7709.9	6861.6	6296.2	5759.4	4756.7	3658.7	2856.1	2141.2
72.5°	6103.7	6513.9	6746.9	6263.3	5632.0	5221.8	4815.0	3649.4	2760.7	2107.4	1473.6
75°	4771.9	4747.4	4955.9	4634.4	4263.0	4071.4	3765.9	2546.3	1849.2	1396.0	932.6
77.5°	4079.9	3765.9	3528.7	3302.5	3082.3	3021.5	2728.6	1580.0	1142.8	836.4	557.9
80°	3391.2	2818.1	2385.1	2066.9	1988.4	2108.3	1785.9	931.8	676.9	480.2	350.3
82.5°	2423.1	2027.3	1650.0	1448.3	1314.1	1504.8	1053.3	517.4	367.1	287.8	232.1
85°	1570.7	1501.5	1485.4	1419.6	1256.7	1186.7	800.1	445.6	275.1	178.9	144.3
87.5°	604.3	774.8	893.8	957.9	1035.6	922.5	416.9	153.6	151.1	92.8	70.1
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: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1461.8	1458.4	1457.6	1455.0	1453.4	1453.4	1449.1	1372.3	1371.5	1371.5	1370.6
5°	1493.0	1488.8	1484.6	1483.7	1480.4	1480.4	1476.1	1399.3	1399.3	1399.3	1397.6
7.5°	1535.2	1526.8	1521.7	1519.2	1514.1	1516.7	1520.0	1442.4	1443.2	1442.4	1444.1
10°	1565.6	1560.5	1554.6	1552.9	1549.6	1552.1	1557.2	1480.4	1482.9	1483.7	1485.4
12.5°	1595.1	1586.7	1579.1	1576.6	1574.9	1581.6	1587.5	1513.3	1515.8	1518.3	1518.3
15°	1631.4	1617.1	1607.0	1601.1	1597.7	1604.4	1612.9	1539.4	1540.3	1542.8	1542.0
17.5°	1693.0	1671.9	1648.3	1644.1	1633.1	1635.7	1637.3	1555.5	1552.1	1546.2	1536.1
20°	1788.4	1756.3	1724.3	1710.8	1688.8	1679.5	1661.0	1556.3	1535.2	1517.5	1502.3
22.5°	1925.1	1877.9	1843.3	1820.5	1775.8	1744.5	1693.9	1552.1	1512.4	1482.0	1458.4
25°	2146.3	2089.7	2036.6	1979.2	1909.1	1846.7	1772.4	1589.2	1527.6	1475.3	1429.7
27.5°	2361.5	2272.0	2190.2	2104.1	2005.3	1911.6	1807.0	1601.1	1531.0	1463.5	1389.2
30°	2522.7	2392.7	2268.6	2142.9	2013.8	1892.2	1774.1	1560.5	1477.0	1401.0	1322.5
32.5°	2620.6	2451.8	2290.6	2134.5	1982.5	1845.8	1713.3	1490.5	1398.5	1309.0	1225.5
35°	2713.4	2504.1	2304.1	2120.1	1946.2	1794.3	1651.7	1408.6	1298.9	1203.5	1098.0
37.5°	2828.2	2559.0	2312.5	2093.9	1893.1	1719.2	1562.2	1305.7	1195.9	1078.6	979.0
40°	2965.8	2615.5	2304.1	2041.6	1810.4	1620.5	1454.2	1197.6	1075.2	961.3	863.4
42.5°	3096.6	2665.3	2282.2	1971.6	1720.1	1517.5	1355.4	1101.4	979.0	862.6	765.5
45°	3193.7	2707.5	2271.2	1922.6	1650.8	1447.4	1268.5	1023.8	894.6	777.3	678.6
47.5°	3261.2	2732.8	2266.1	1895.6	1602.7	1374.9	1189.2	946.1	810.2	692.1	595.9
50°	3296.6	2732.0	2253.5	1866.1	1531.8	1287.9	1107.3	867.6	732.6	617.0	529.2
52.5°	3305.9	2716.8	2226.4	1812.0	1445.8	1201.0	1019.5	785.8	664.2	553.7	465.0
55°	3284.8	2679.7	2169.9	1721.7	1353.8	1109.0	939.4	721.6	597.5	492.9	423.7
57.5°	3224.9	2613.8	2063.6	1597.7	1256.7	1023.8	847.4	644.0	525.0	437.2	379.8
60°	3113.5	2474.6	1897.3	1450.8	1133.5	893.8	720.8	542.7	448.2	382.3	335.9
62.5°	2907.5	2256.0	1663.5	1248.3	956.2	725.0	575.6	433.0	362.1	319.0	290.3
65°	2575.9	1926.8	1392.6	983.2	726.7	527.5	427.9	325.8	274.3	248.1	239.7
67.5°	2102.4	1488.0	1012.8	682.8	492.0	369.7	297.9	238.0	213.5	203.4	200.0
70°	1528.5	1013.6	655.8	431.3	324.9	258.3	225.3	191.6	178.1	175.6	175.6
72.5°	959.6	616.1	401.7	295.4	246.4	209.3	192.4	168.8	163.7	162.0	159.5
75°	562.9	373.9	284.4	242.2	211.0	187.4	173.0	153.6	150.2	149.4	146.9
77.5°	358.7	269.2	229.6	206.8	190.7	169.6	157.0	136.7	135.9	135.0	134.2
80°	257.4	223.7	200.9	183.1	167.1	147.7	140.1	124.1	122.4	121.5	123.2
82.5°	195.0	184.8	175.6	162.0	140.1	125.8	119.8	108.9	109.7	105.5	104.7
85°	134.2	132.5	131.7	125.8	109.7	97.1	92.8	86.9	91.2	86.9	81.9
87.5°	65.8	65.0	59.9	70.9	65.8	52.3	47.3	52.3	58.2	56.5	52.3
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: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1367.3	1363.9	1366.4	1364.7	1364.7	1363.9	1365.6	1363.0	1361.4	1363.0	1363.9
5°	1394.3	1390.1	1390.9	1385.0	1387.5	1381.6	1383.3	1379.1	1374.9	1373.2	1373.2
7.5°	1439.8	1435.6	1430.6	1429.7	1420.4	1417.1	1411.2	1407.8	1405.2	1399.3	1396.0
10°	1481.2	1474.5	1468.5	1467.7	1458.4	1450.0	1442.4	1435.6	1431.4	1423.0	1418.7
12.5°	1515.0	1508.2	1498.9	1493.9	1484.6	1474.5	1469.4	1459.3	1453.4	1444.1	1436.5
15°	1534.4	1522.6	1509.1	1499.8	1486.3	1475.3	1467.7	1460.1	1454.2	1442.4	1431.4
17.5°	1525.1	1505.7	1487.1	1470.2	1451.7	1441.5	1430.6	1421.3	1419.6	1406.1	1389.2
20°	1486.3	1463.5	1439.0	1416.2	1391.7	1377.4	1363.9	1349.5	1345.3	1329.3	1307.3
22.5°	1439.0	1412.8	1385.0	1357.1	1325.9	1305.7	1285.4	1267.7	1253.3	1229.7	1198.5
25°	1390.9	1352.1	1311.6	1276.1	1239.8	1214.5	1193.4	1174.0	1157.1	1119.1	1087.1
27.5°	1327.6	1266.8	1225.5	1185.0	1141.1	1108.2	1084.5	1057.5	1039.0	995.1	961.3
30°	1246.6	1185.8	1126.7	1086.2	1042.3	1006.9	976.5	937.7	910.7	878.6	847.4
32.5°	1144.5	1083.7	1023.8	978.2	941.9	898.0	860.0	822.9	791.7	760.4	736.0
35°	1020.4	961.3	904.8	859.2	818.7	784.1	747.8	715.7	680.3	646.5	632.1
37.5°	889.6	826.3	763.8	724.1	692.1	667.6	633.8	607.7	575.6	555.3	538.5
40°	775.6	708.1	649.0	615.3	589.9	562.1	534.2	514.0	491.2	470.9	458.3
42.5°	679.4	616.1	565.5	536.8	506.4	476.0	454.9	438.0	423.7	408.5	393.3
45°	590.8	530.0	487.8	452.4	427.1	402.6	388.2	380.6	372.2	362.9	352.8
47.5°	516.5	464.2	422.8	389.9	363.8	346.9	340.1	337.6	334.2	326.6	321.6
50°	460.0	416.9	374.7	345.2	323.2	314.8	307.2	304.7	300.5	297.9	294.6
52.5°	412.7	367.1	331.7	304.7	291.2	287.8	284.4	281.0	280.2	278.5	276.8
55°	373.9	334.2	301.3	281.0	274.3	271.8	270.9	267.5	266.7	266.7	264.2
57.5°	339.3	305.5	276.0	263.3	259.1	256.6	254.9	253.2	253.2	254.9	254.0
60°	303.8	275.1	257.4	250.7	248.1	243.9	239.7	238.0	238.8	243.1	243.1
62.5°	269.2	248.1	237.2	234.6	232.1	228.7	223.7	222.0	223.7	228.7	231.3
65°	231.3	222.0	218.6	216.9	215.2	212.7	209.3	207.6	208.5	211.0	214.4
67.5°	196.6	195.8	195.8	196.6	195.8	195.0	193.3	190.7	189.9	189.9	191.6
70°	175.6	175.6	178.1	178.1	177.2	177.2	174.7	172.2	170.5	168.8	169.6
72.5°	159.5	159.5	160.4	161.2	160.4	160.4	157.0	155.3	151.1	150.2	148.5
75°	146.0	144.3	144.3	143.5	142.6	143.5	140.1	135.9	134.2	133.4	131.7
77.5°	132.5	129.1	127.4	125.8	126.6	125.8	123.2	120.7	118.2	117.3	116.5
80°	117.3	112.3	109.7	105.5	108.0	108.9	107.2	104.7	103.8	103.0	102.1
82.5°	97.1	92.0	88.6	86.1	84.4	86.1	88.6	94.5	92.8	92.0	90.3
85°	76.0	67.5	63.3	64.1	59.9	60.8	68.4	71.7	71.7	73.4	71.7
87.5°	43.0	41.4	31.2	28.7	30.4	36.3	40.5	44.7	44.7	42.2	47.3
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: P158888

CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1363.9	1365.6	1366.4	1369.8	1371.5	1372.3	1373.2	1374.9	1375.7	1374.9	1379.1
5°	1370.6	1370.6	1369.0	1371.5	1372.3	1372.3	1370.6	1372.3	1372.3	1372.3	1376.5
7.5°	1388.4	1383.3	1380.8	1377.4	1374.9	1371.5	1367.3	1367.3	1366.4	1367.3	1369.8
10°	1406.9	1399.3	1390.1	1381.6	1374.0	1368.1	1360.5	1358.0	1357.1	1356.3	1363.0
12.5°	1421.3	1407.8	1393.4	1379.1	1363.9	1353.8	1341.1	1333.5	1332.7	1332.7	1341.1
15°	1411.2	1389.2	1361.4	1336.0	1322.5	1308.2	1293.8	1284.6	1283.7	1285.4	1290.5
17.5°	1360.5	1325.1	1300.6	1276.1	1258.4	1246.6	1237.3	1235.6	1239.0	1235.6	1242.4
20°	1274.4	1236.4	1219.6	1200.2	1193.4	1185.0	1171.5	1159.6	1159.6	1144.5	1148.7
22.5°	1163.0	1141.9	1120.0	1104.8	1099.7	1085.4	1071.0	1055.0	1053.3	1034.7	1032.2
25°	1046.5	1025.4	1007.7	1004.3	989.2	969.7	956.2	937.7	933.5	914.9	912.4
27.5°	927.5	910.7	892.9	882.8	874.4	853.3	841.5	819.5	811.1	790.8	788.3
30°	814.5	802.6	781.5	773.1	757.1	732.6	707.3	693.8	687.0	665.9	659.2
32.5°	708.1	689.5	673.5	663.4	643.1	615.3	592.5	573.1	560.4	535.1	528.3
35°	606.8	588.3	580.7	554.5	536.8	518.2	487.0	475.2	452.4	433.0	426.2
37.5°	517.4	499.6	489.5	467.6	449.8	431.3	412.7	397.5	386.5	382.3	382.3
40°	440.6	431.3	418.6	402.6	390.8	377.3	367.1	362.1	361.2	362.9	367.1
42.5°	385.7	375.6	367.1	358.7	350.3	348.6	346.0	349.4	353.6	357.9	362.1
45°	344.3	335.9	330.8	327.5	326.6	329.2	334.2	339.3	346.9	351.9	355.3
47.5°	314.8	308.1	306.4	305.5	309.7	317.3	324.1	331.7	337.6	342.7	346.0
50°	289.5	283.6	282.7	281.9	287.8	294.6	300.5	310.6	314.8	318.2	320.7
52.5°	271.8	266.7	264.2	265.0	270.9	276.8	285.3	292.9	298.8	301.3	303.8
55°	257.4	255.7	249.8	252.4	258.3	265.9	274.3	282.7	288.6	292.9	297.1
57.5°	246.4	242.2	238.0	242.2	248.1	255.7	265.9	273.5	281.0	287.0	291.2
60°	234.6	231.3	227.9	232.1	238.0	245.6	253.2	263.3	272.6	278.5	282.7
62.5°	224.5	222.0	218.6	219.4	222.0	227.0	231.3	240.5	249.0	256.6	261.6
65°	210.2	209.3	204.2	205.1	206.8	211.8	215.2	223.7	232.1	238.8	243.1
67.5°	189.1	187.4	187.4	189.9	190.7	193.3	195.8	204.2	211.0	216.1	221.1
70°	168.0	167.1	167.1	168.8	168.0	170.5	173.9	181.5	189.9	195.0	200.0
72.5°	147.7	147.7	146.9	148.5	148.5	149.4	153.6	160.4	168.0	172.2	175.6
75°	130.0	129.1	129.1	129.1	130.0	130.0	134.2	140.1	147.7	150.2	155.3
77.5°	113.9	113.9	113.9	113.9	114.8	113.9	116.5	120.7	123.2	127.4	127.4
80°	100.4	99.6	100.4	101.3	101.3	100.4	100.4	101.3	102.1	102.1	102.1
82.5°	88.6	86.1	87.8	92.0	92.0	92.0	91.2	85.2	81.0	81.0	82.7
85°	70.9	70.9	71.7	77.6	78.5	75.1	78.5	70.1	61.6	59.1	60.8
87.5°	43.9	34.6	42.2	48.1	48.1	45.6	50.6	47.3	39.7	32.1	30.4
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: P158888
CATALOG NUMBER: VST-E05-LED-E-U-SLL-8030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	0°
2.5°	1382.5	1383.3	1388.4	1390.9	1390.9	1394.3	1396.0	1401.0	1400.2	1400.2	1401.9	2.5°
5°	1380.8	1383.3	1388.4	1391.7	1393.4	1397.6	1401.0	1406.9	1406.1	1407.8	1408.6	5°
7.5°	1374.9	1381.6	1386.7	1393.4	1399.3	1402.7	1406.9	1412.0	1410.3	1411.2	1410.3	7.5°
10°	1369.8	1376.5	1386.7	1396.0	1404.4	1409.5	1412.0	1417.9	1417.1	1418.7	1418.7	10°
12.5°	1349.5	1361.4	1374.0	1388.4	1401.0	1414.5	1423.0	1435.6	1441.5	1449.1	1457.6	12.5°
15°	1298.1	1311.6	1331.8	1347.9	1372.3	1390.9	1415.4	1439.8	1461.8	1482.9	1507.4	15°
17.5°	1247.4	1253.3	1269.4	1291.3	1313.2	1341.1	1370.6	1414.5	1454.2	1497.2	1544.5	17.5°
20°	1153.7	1163.9	1174.8	1201.0	1227.2	1266.8	1303.1	1360.5	1418.7	1486.3	1558.9	20°
22.5°	1038.1	1048.2	1060.1	1089.6	1121.7	1162.2	1206.1	1270.2	1347.9	1435.6	1532.7	22.5°
25°	913.2	919.1	928.4	957.9	977.3	1030.5	1083.7	1150.4	1234.8	1347.9	1460.9	25°
27.5°	775.6	786.6	794.2	807.7	852.4	898.0	953.7	1025.4	1127.6	1243.2	1379.9	27.5°
30°	644.0	653.2	649.0	677.7	707.3	755.4	815.3	894.6	992.5	1130.1	1287.9	30°
32.5°	514.8	521.6	519.1	539.3	568.8	617.0	673.5	759.6	863.4	1010.3	1181.6	32.5°
35°	424.5	426.2	435.5	444.8	470.1	508.9	557.0	632.1	738.5	873.5	1055.0	35°
37.5°	382.3	385.7	391.6	404.3	422.8	450.7	490.4	548.6	639.7	758.7	920.8	37.5°
40°	369.7	372.2	375.6	384.0	401.7	426.2	461.7	510.6	577.3	677.7	809.4	40°
42.5°	363.8	363.8	363.8	368.8	382.3	408.5	449.0	497.1	555.3	631.3	737.6	42.5°
45°	355.3	355.3	354.5	357.0	366.3	392.5	436.3	490.4	552.8	625.4	717.4	45°
47.5°	346.0	345.2	342.7	342.7	348.6	374.7	420.3	478.5	546.9	630.5	729.2	47.5°
50°	320.7	320.7	320.7	323.2	328.3	351.9	400.9	462.5	541.0	633.8	747.8	50°
52.5°	306.4	307.2	309.7	309.7	314.8	339.3	390.8	459.1	544.4	646.5	771.4	52.5°
55°	299.6	302.1	304.7	304.7	308.9	334.2	387.4	461.7	557.0	672.7	811.9	55°
57.5°	293.7	296.2	297.9	297.9	301.3	323.2	378.1	457.4	564.6	698.0	861.7	57.5°
60°	282.7	284.4	285.3	285.3	286.1	304.7	357.0	437.2	547.8	696.3	888.7	60°
62.5°	262.5	265.9	266.7	267.5	267.5	285.3	330.0	404.3	511.5	671.0	881.1	62.5°
65°	247.3	249.0	251.5	253.2	256.6	268.4	303.8	364.6	464.2	620.3	838.9	65°
67.5°	223.7	226.2	228.7	232.1	235.5	243.1	270.9	319.9	400.1	534.2	744.4	67.5°
70°	202.6	203.4	205.9	210.2	211.0	215.2	235.5	269.2	327.5	428.7	599.2	70°
72.5°	176.4	178.1	181.5	186.5	186.5	189.9	201.7	219.4	256.6	327.5	442.3	72.5°
75°	153.6	155.3	157.8	157.8	153.6	154.5	162.9	175.6	203.4	246.4	322.4	75°
77.5°	127.4	130.8	133.4	128.3	126.6	129.1	133.4	142.6	162.9	195.8	242.2	77.5°
80°	105.5	107.2	108.0	108.9	107.2	109.7	113.1	119.0	132.5	157.8	191.6	80°
82.5°	84.4	86.1	88.6	92.0	92.0	101.3	102.1	102.1	109.7	125.8	150.2	82.5°
85°	62.5	65.8	69.2	73.4	74.3	79.3	76.8	76.0	78.5	93.7	103.8	85°
87.5°	32.1	34.6	36.3	39.7	35.4	37.1	37.1	34.6	30.4	38.0	42.2	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158888

NUMBER: VST-E05-LED-E-U-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
1403.6	1401.9	1403.6	1403.6	1406.1	1404.4	1493.9
1410.3	1408.6	1410.3	1412.0	1414.5	1414.5	1513.3
1411.2	1411.2	1409.5	1413.7	1417.1	1420.4	1531.8
1421.3	1421.3	1423.0	1423.8	1431.4	1439.8	1562.2
1462.6	1466.9	1474.5	1477.0	1490.5	1499.8	1639.9
1525.9	1549.6	1564.8	1569.8	1581.6	1599.4	1770.7
1590.1	1629.7	1671.1	1696.4	1711.6	1732.7	1931.1
1638.2	1712.5	1783.4	1846.7	1882.9	1924.3	2155.6
1642.4	1760.6	1880.4	1997.7	2094.8	2171.6	2459.4
1601.9	1757.2	1922.6	2102.4	2269.5	2407.9	2808.8
1550.4	1741.2	1952.2	2181.7	2401.2	2605.4	3066.2
1485.4	1714.1	1957.2	2215.5	2472.9	2718.5	3213.1
1386.7	1634.0	1896.4	2181.7	2480.5	2779.3	3307.6
1260.1	1512.4	1781.7	2106.6	2445.0	2803.7	3386.9
1130.9	1379.9	1669.4	2006.2	2388.5	2799.5	3419.0
994.2	1241.5	1537.8	1899.0	2311.7	2760.7	3413.1
901.4	1126.7	1417.1	1790.1	2226.4	2709.2	3373.4
847.4	1044.9	1321.7	1690.5	2148.8	2647.6	3323.6
846.5	1020.4	1271.1	1619.6	2070.3	2579.2	3256.1
876.1	1035.6	1265.1	1589.2	2027.3	2529.4	3182.7
910.7	1077.8	1296.4	1600.2	2026.4	2507.5	3131.2
965.5	1149.5	1364.7	1647.5	2048.4	2504.1	3067.9
1035.6	1246.6	1488.0	1763.9	2133.6	2570.8	3072.1
1107.3	1360.5	1649.2	1963.1	2301.6	2726.1	3205.5
1133.5	1448.3	1812.9	2196.9	2553.1	2959.0	3480.6
1110.7	1468.5	1912.5	2378.4	2797.8	3231.6	3808.9
1026.3	1386.7	1872.0	2429.8	2938.8	3424.9	4137.2
844.8	1183.3	1688.0	2314.2	2927.8	3464.6	4255.4
619.5	917.4	1372.3	1966.5	2602.9	3216.4	4078.2
447.3	649.0	990.8	1481.2	2057.6	2590.2	3420.7
320.7	449.8	643.1	973.1	1401.9	1803.6	2438.3
230.4	305.5	400.9	584.0	854.1	1107.3	1531.8
169.6	209.3	263.3	362.9	503.0	644.8	922.5
115.6	123.2	158.7	214.4	330.0	474.3	626.2
43.9	49.8	58.2	87.8	147.7	169.6	119.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)