

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: P159329

Luminaire Tested: **VST-E05-LED-E-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159329
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
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-T2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14096.3 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - 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



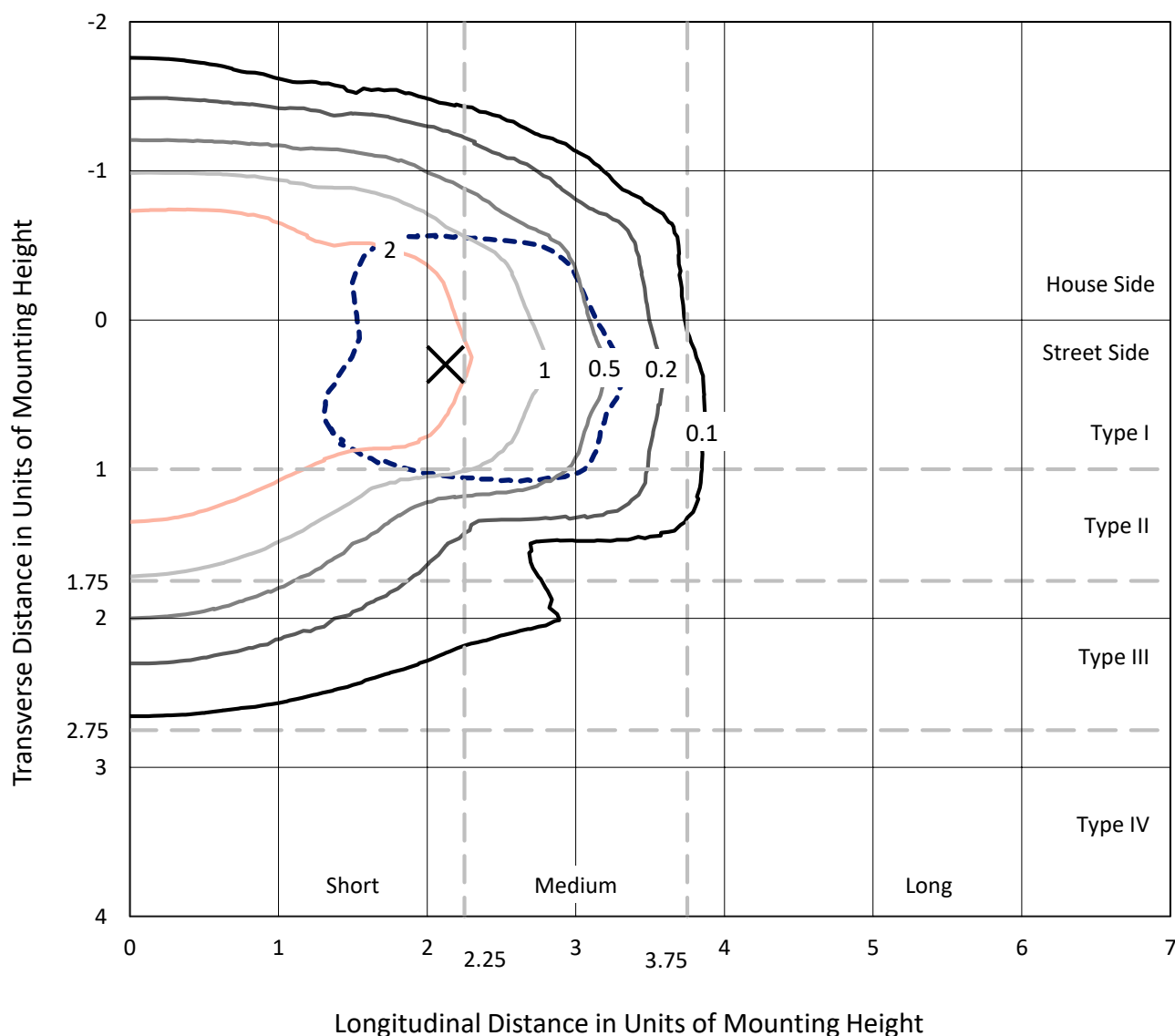
REPORT NUMBER: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

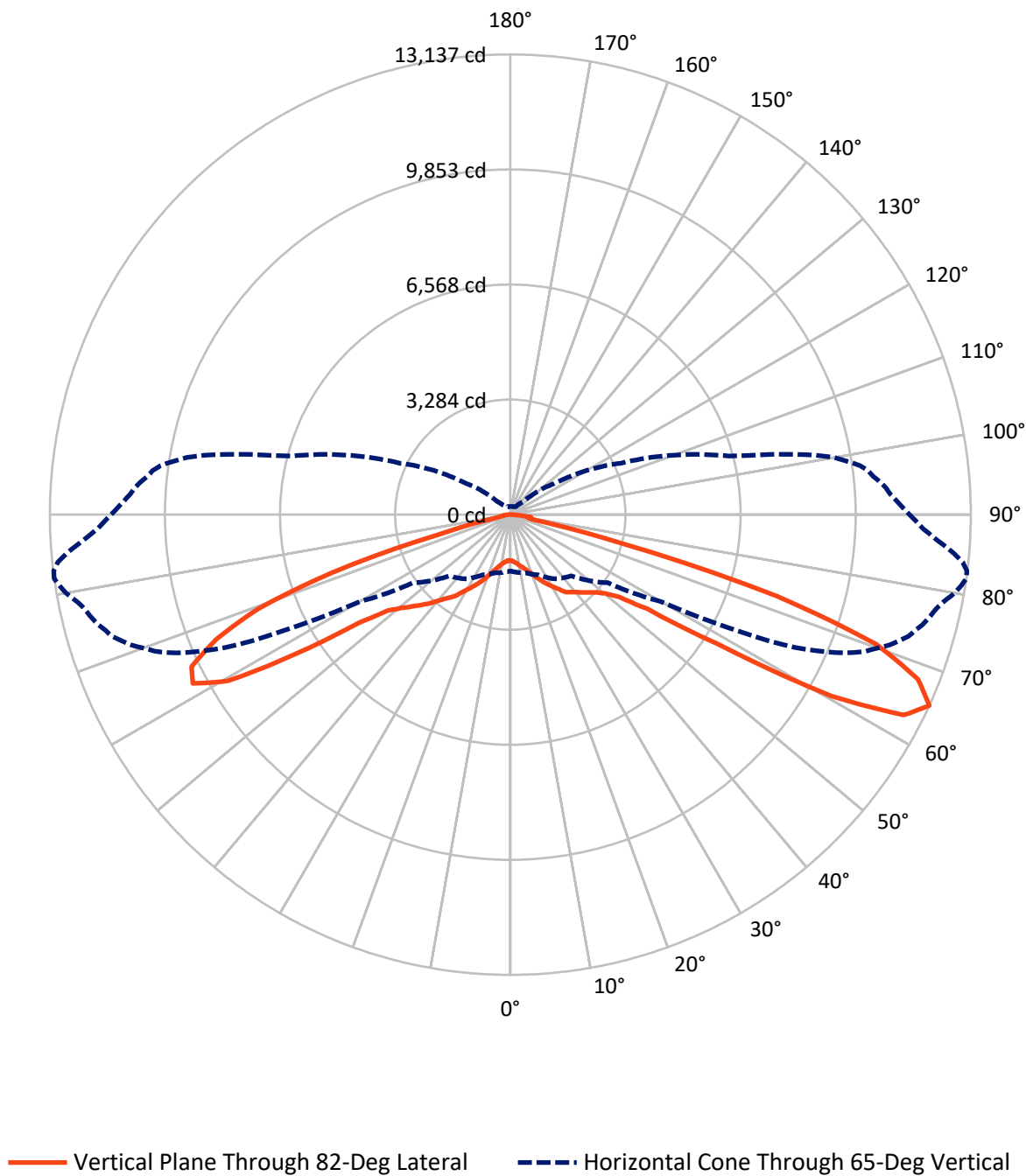


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5248.5	0.0	5248.5
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	8847.8	0.0	8847.8
	% Fixture	62.8	0.0	62.8
Total	Lumens	14096.3	0.0	14096.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	0.9
10°-20°	466.6	3.3
20°-30°	924.4	6.6
30°-40°	1584.7	11.2
40°-50°	2380.6	16.9
50°-60°	3307.5	23.5
60°-70°	3773.3	26.8
70°-80°	1299.9	9.2
80°-90°	226.6	1.6
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°	14096.3	100.0
0°-180°	14096.3	100.0

Coefficient of Utilization



REPORT NUMBER: P159329

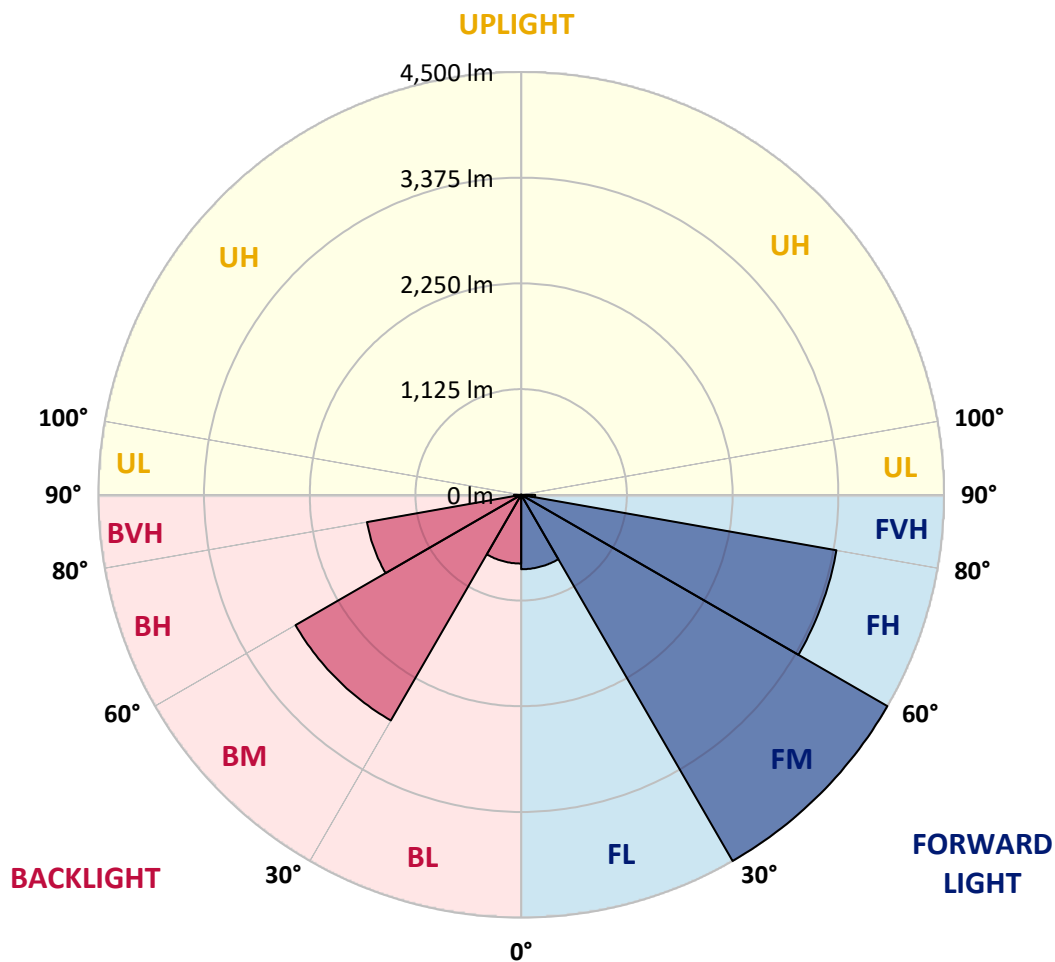
CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	791.9	5.6			
FM	(30°-60°)	4499.8	31.9			
FH	(60°-80°)	3406.9	24.2			G2/5000
FVH	(80°-90°)	149.1	1.1			G2/225
BL	(0°-30°)	731.9	5.2	B2/1000		
BM	(30°-60°)	2773.0	19.7	B3/5000		
BH	(60°-80°)	1666.2	11.8	B3/2500		G3/2500
BVH	(80°-90°)	77.4	0.5			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: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1382.8	1383.7	1382.8	1380.1	1379.2	1370.9	1361.8	1357.2	1356.3	1352.7	1353.6
5°	1468.7	1465.9	1462.3	1457.7	1453.1	1439.4	1423.9	1415.7	1413.0	1410.2	1406.6
7.5°	1545.4	1547.2	1545.4	1539.0	1527.1	1509.8	1489.7	1476.9	1476.0	1473.2	1470.5
10°	1644.0	1648.6	1637.6	1626.7	1610.2	1583.7	1560.9	1544.5	1541.7	1538.1	1536.3
12.5°	1750.9	1751.8	1748.2	1723.5	1696.1	1659.6	1626.7	1610.2	1606.6	1602.0	1600.2
15°	1865.1	1866.0	1845.9	1822.1	1780.1	1736.3	1690.6	1672.3	1667.8	1668.7	1661.4
17.5°	1955.5	1957.3	1938.1	1908.0	1857.8	1805.7	1756.4	1741.8	1739.0	1739.9	1736.3
20°	1994.8	1997.5	1985.6	1962.8	1915.3	1869.6	1834.0	1824.9	1824.0	1822.1	1829.4
22.5°	1992.9	1993.8	1989.3	1980.1	1951.8	1925.3	1920.8	1926.3	1925.3	1927.2	1933.6
25°	1976.5	1979.2	1978.3	1982.0	1977.4	1987.5	2008.5	2027.6	2030.4	2034.0	2045.9
27.5°	2018.5	2024.0	2017.6	2021.2	2028.6	2062.3	2105.3	2134.5	2140.0	2150.0	2160.1
30°	2182.9	2175.6	2167.4	2158.2	2162.8	2183.8	2232.2	2257.8	2260.5	2267.8	2281.5
32.5°	2426.8	2418.6	2411.2	2396.6	2393.0	2383.8	2400.3	2406.7	2405.8	2413.1	2416.7
35°	2701.7	2702.6	2700.8	2711.7	2720.9	2674.3	2616.7	2601.2	2607.6	2599.4	2601.2
37.5°	2936.4	2939.2	2987.6	3047.9	3065.2	3036.0	2909.9	2847.8	2826.8	2824.1	2803.1
40°	3196.7	3196.7	3269.8	3343.8	3392.2	3428.7	3278.9	3169.3	3124.6	3111.8	3059.7
42.5°	3482.6	3468.0	3534.7	3616.0	3705.5	3788.6	3710.9	3587.6	3523.7	3500.9	3409.5
45°	3717.3	3708.2	3741.1	3816.9	3962.1	4124.7	4135.7	4072.6	4034.3	3986.8	3902.7
47.5°	3861.6	3857.1	3876.3	3958.5	4140.2	4403.3	4550.3	4582.3	4559.4	4522.9	4441.6
50°	3918.3	3911.9	3925.6	4016.9	4220.6	4567.7	4892.8	5043.5	5054.5	5062.7	5037.1
52.5°	3898.2	3890.0	3918.3	3995.0	4206.9	4625.2	5160.4	5450.0	5498.4	5539.5	5623.5
55°	3705.5	3692.7	3769.4	3913.7	4147.5	4604.2	5355.9	5840.9	5943.2	6052.8	6239.1
57.5°	3410.5	3399.5	3510.0	3708.2	4042.5	4546.7	5487.4	6335.0	6565.2	6762.4	7291.3
60°	3126.4	3117.3	3182.1	3373.9	3701.8	4266.3	5324.8	6501.2	6887.6	7313.2	8278.6
62.5°	2618.6	2593.9	2680.7	2842.3	3049.7	3529.2	4615.2	6131.3	6726.8	7352.5	8661.3
65°	1609.3	1644.9	1719.8	1898.9	2238.6	2467.0	3389.4	4960.4	5745.9	6530.5	8228.4
67.5°	1022.0	1032.1	1087.8	1212.0	1475.1	1704.3	2054.1	3112.7	3718.2	4490.0	6460.1
70°	875.9	882.3	929.8	1059.5	1241.2	1523.5	1554.5	1625.8	1843.1	2334.5	3797.7
72.5°	690.5	701.5	738.9	851.2	1070.4	1373.7	1918.9	1285.1	1241.2	1282.3	1853.2
75°	411.0	423.8	454.8	516.0	687.8	1050.4	2010.3	1495.2	1393.8	1314.3	1278.7
77.5°	217.4	208.2	229.3	264.9	353.5	559.9	1510.7	1832.2	1760.9	1666.0	1464.1
80°	107.8	111.4	117.8	125.1	158.0	227.4	755.3	1895.2	2100.7	2192.0	2013.0
82.5°	42.9	48.4	68.5	73.1	86.8	96.8	243.0	1050.4	1504.3	2040.4	2664.2
85°	21.9	21.0	36.5	43.8	51.1	45.7	85.9	391.8	705.1	1098.8	1780.1
87.5°	2.7	3.7	8.2	11.0	15.5	14.6	24.7	84.9	135.2	191.8	269.4
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: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1349.0	1348.1	1348.1	1344.5	1344.5	1345.4	1342.6	1340.8	1340.8	1341.7	1338.1
5°	1403.8	1401.1	1401.1	1397.4	1392.9	1392.9	1389.2	1388.3	1386.5	1382.8	1380.1
7.5°	1467.8	1465.0	1460.4	1457.7	1455.9	1453.1	1448.6	1446.7	1443.1	1439.4	1435.8
10°	1533.5	1529.9	1528.0	1523.5	1521.6	1516.2	1513.4	1514.3	1507.0	1504.3	1505.2
12.5°	1599.3	1595.6	1589.2	1587.4	1586.5	1581.0	1578.3	1576.4	1571.0	1570.0	1567.3
15°	1657.7	1659.6	1656.8	1652.3	1648.6	1647.7	1644.9	1643.1	1639.5	1635.8	1632.2
17.5°	1733.5	1736.3	1732.6	1726.2	1726.2	1725.3	1726.2	1725.3	1718.9	1721.7	1719.8
20°	1830.4	1832.2	1823.0	1825.8	1827.6	1826.7	1829.4	1832.2	1830.4	1830.4	1833.1
22.5°	1941.8	1944.5	1939.0	1942.7	1948.2	1943.6	1951.8	1950.9	1952.7	1955.5	1956.4
25°	2056.0	2061.4	2056.9	2066.9	2063.3	2066.9	2077.0	2074.2	2078.8	2086.1	2088.8
27.5°	2170.1	2173.8	2174.7	2181.1	2187.5	2193.0	2205.7	2205.7	2209.4	2222.2	2222.2
30°	2289.8	2293.4	2297.1	2306.2	2309.9	2319.9	2332.7	2336.4	2334.5	2352.8	2358.3
32.5°	2427.7	2431.3	2437.7	2448.7	2453.3	2463.3	2463.3	2473.4	2480.7	2496.2	2497.1
35°	2611.3	2614.0	2611.3	2610.4	2616.7	2630.4	2631.4	2646.0	2652.4	2667.9	2672.5
37.5°	2794.9	2793.9	2782.1	2769.3	2770.2	2764.7	2761.1	2767.5	2770.2	2771.1	2781.2
40°	3042.4	3018.6	3000.4	2968.4	2953.8	2930.9	2917.2	2916.3	2901.7	2899.9	2902.6
42.5°	3366.6	3339.2	3296.3	3242.4	3201.3	3159.3	3128.2	3110.0	3078.0	3061.6	3047.9
45°	3819.6	3752.0	3700.9	3637.0	3557.5	3484.4	3407.7	3373.0	3311.8	3274.4	3232.3
47.5°	4373.1	4306.4	4227.9	4162.1	4058.0	3956.6	3851.6	3759.4	3652.5	3567.5	3498.1
50°	4974.1	4934.8	4878.2	4817.0	4682.7	4616.1	4483.6	4358.5	4243.4	4091.8	3959.4
52.5°	5590.6	5613.5	5600.7	5578.7	5493.8	5468.2	5354.1	5201.5	5085.5	4981.4	4751.2
55°	6350.5	6377.9	6432.7	6464.7	6454.6	6519.5	6491.2	6372.4	6325.9	6277.5	6114.0
57.5°	7513.2	7708.7	7917.8	8101.4	8144.3	8374.5	8325.2	8443.9	8528.0	8467.7	8414.7
60°	8752.6	9147.2	9502.5	9874.2	10176.5	10403.1	10702.6	10904.5	11031.4	11259.8	11278.0
62.5°	9252.2	9788.4	10239.6	10670.7	11029.6	11343.8	11614.2	11892.7	12121.1	12327.5	12476.4
65°	8978.2	9538.1	10085.2	10522.7	10868.0	11138.3	11432.4	11653.4	11878.1	12010.6	12166.7
67.5°	7463.9	8205.5	8878.7	9371.9	9844.1	10119.0	10467.0	10684.4	10922.8	11062.5	11163.0
70°	4866.3	5831.7	6751.5	7499.5	8137.0	8457.6	8877.8	9174.6	9461.4	9468.7	9635.8
72.5°	2625.9	3433.3	4203.2	4967.7	5694.7	6121.3	6535.9	6896.7	7181.7	7060.2	7226.4
75°	1462.3	1840.4	2261.5	2720.9	3163.8	3407.7	3717.3	3719.2	3866.2	3635.1	3693.6
77.5°	1406.6	1389.2	1395.6	1408.4	1430.3	1383.7	1382.8	1354.5	1310.7	1231.2	1244.9
80°	1847.7	1626.7	1467.8	1218.4	980.9	800.1	749.9	761.7	797.4	868.6	959.0
82.5°	2671.5	2485.2	2218.5	1825.8	1433.0	1105.2	907.9	805.6	801.0	872.2	1009.3
85°	1945.4	2057.8	2040.4	1703.4	1404.7	1140.8	830.2	701.5	580.9	552.6	601.0
87.5°	286.8	237.5	267.6	223.8	162.6	126.0	110.5	88.6	84.9	86.8	95.0
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: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1339.0	1335.3	1331.7	1334.4	1331.7	1330.8	1328.0	1326.2	1325.3	1325.3	1325.3
5°	1380.1	1375.5	1372.8	1371.9	1369.1	1366.4	1365.5	1360.9	1360.0	1360.0	1357.2
7.5°	1435.8	1432.1	1427.6	1424.8	1423.0	1418.4	1413.9	1413.0	1412.0	1408.4	1405.6
10°	1500.6	1495.2	1489.7	1489.7	1486.0	1485.1	1480.5	1474.1	1473.2	1467.8	1465.9
12.5°	1561.8	1560.0	1553.6	1551.8	1549.0	1546.3	1543.6	1540.8	1538.1	1533.5	1535.3
15°	1634.9	1630.3	1624.9	1625.8	1624.9	1621.2	1617.5	1614.8	1613.0	1611.2	1611.2
17.5°	1722.6	1720.8	1719.8	1715.3	1711.6	1714.4	1714.4	1714.4	1709.8	1710.7	1711.6
20°	1834.0	1835.8	1834.0	1830.4	1829.4	1832.2	1825.8	1835.8	1830.4	1826.7	1828.5
22.5°	1957.3	1963.7	1956.4	1957.3	1961.9	1963.7	1957.3	1965.5	1962.8	1957.3	1961.9
25°	2091.6	2096.1	2092.5	2091.6	2094.3	2100.7	2099.8	2098.9	2105.3	2099.8	2102.5
27.5°	2229.5	2232.2	2234.1	2236.8	2238.6	2237.7	2241.4	2241.4	2245.0	2238.6	2241.4
30°	2366.5	2366.5	2370.1	2373.8	2373.8	2373.8	2381.1	2382.0	2376.5	2378.4	2372.0
32.5°	2512.6	2513.5	2517.2	2517.2	2524.5	2525.4	2533.6	2522.7	2533.6	2524.5	2526.3
35°	2684.3	2696.2	2698.0	2707.2	2714.5	2717.2	2717.2	2718.1	2728.2	2720.9	2723.6
37.5°	2784.8	2787.5	2794.9	2799.4	2799.4	2803.1	2805.8	2803.1	2805.8	2804.9	2807.6
40°	2903.5	2900.8	2909.0	2910.8	2907.2	2911.8	2910.8	2908.1	2915.4	2909.9	2913.6
42.5°	3047.9	3032.3	3031.4	3038.7	3031.4	3035.1	3034.1	3027.8	3036.9	3039.6	3036.9
45°	3202.2	3194.0	3177.5	3177.5	3170.2	3167.5	3168.4	3167.5	3168.4	3179.4	3183.0
47.5°	3453.4	3403.1	3374.8	3348.3	3326.4	3325.5	3315.5	3320.9	3328.2	3346.5	3363.0
50°	3874.4	3758.4	3687.2	3621.4	3573.9	3557.5	3538.3	3536.5	3542.9	3563.9	3592.2
52.5°	4625.2	4464.5	4312.8	4172.2	4049.8	3955.7	3909.1	3884.5	3875.3	3896.4	3923.8
55°	5998.9	5695.7	5481.9	5339.4	5035.3	4906.5	4741.2	4665.4	4591.4	4598.7	4645.3
57.5°	8346.2	8182.7	8003.7	7754.3	7568.0	7343.3	6930.5	6700.3	6710.4	6764.3	6596.2
60°	11422.4	11257.0	11183.1	10956.6	10826.9	10736.4	10517.2	10135.4	10000.3	9974.7	9666.0
62.5°	12590.5	12629.8	12688.3	12752.2	12748.5	12787.8	12596.0	12471.8	12315.6	12112.9	11807.8
65°	12285.5	12385.0	12503.8	12675.5	12870.9	13015.2	13136.7	13122.1	12976.0	12705.6	12383.2
67.5°	11252.5	11351.1	11437.9	11668.1	11988.6	12281.8	12541.2	12717.5	12619.8	12396.0	12019.7
70°	9699.8	9771.0	9825.8	10025.8	10377.5	10735.5	11074.4	11370.3	11340.2	11068.9	10768.4
72.5°	7028.2	7200.9	7294.0	7280.3	7497.7	7898.7	7946.1	8199.1	8269.5	7977.2	7498.6
75°	3424.2	3426.9	3319.1	3283.5	3294.5	3363.9	3231.4	3239.7	3194.0	2986.7	2815.9
77.5°	1196.5	1163.6	1085.1	991.9	858.5	733.4	606.5	551.7	533.4	479.5	442.1
80°	1031.2	1079.6	1064.1	987.3	846.7	675.0	504.2	373.6	318.8	299.6	281.3
82.5°	1170.9	1357.2	1476.0	1469.6	1276.9	959.0	598.2	343.4	244.8	214.6	197.3
85°	653.0	702.4	716.1	652.1	541.6	369.9	206.4	145.2	123.3	112.3	101.4
87.5°	104.1	95.0	93.2	81.3	76.7	70.3	62.1	58.5	53.9	51.1	51.1
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: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1324.4	1323.4	1320.7	1318.0	1316.1	1315.2	1314.3	1312.5	1311.6	1310.7	1308.8
5°	1355.4	1353.6	1349.0	1344.5	1342.6	1339.9	1337.1	1335.3	1333.5	1332.6	1328.9
7.5°	1403.8	1402.0	1396.5	1392.9	1391.9	1384.6	1383.7	1381.0	1376.4	1375.5	1370.0
10°	1462.3	1461.4	1456.8	1454.1	1452.2	1448.6	1443.1	1438.5	1434.0	1434.0	1430.3
12.5°	1529.9	1526.2	1528.9	1522.6	1520.7	1517.1	1514.3	1513.4	1507.9	1503.4	1502.5
15°	1609.3	1604.8	1604.8	1602.9	1601.1	1597.4	1596.5	1597.4	1592.0	1593.8	1588.3
17.5°	1708.0	1709.8	1708.9	1708.9	1704.3	1704.3	1697.0	1706.1	1699.7	1704.3	1702.5
20°	1831.3	1832.2	1830.4	1833.1	1834.9	1834.0	1833.1	1832.2	1834.9	1838.6	1835.8
22.5°	1962.8	1962.8	1961.9	1971.9	1961.0	1969.2	1971.9	1966.4	1981.1	1979.2	1982.0
25°	2105.3	2105.3	2112.6	2120.8	2122.6	2116.2	2119.9	2115.3	2124.5	2131.8	2133.6
27.5°	2237.7	2249.6	2255.1	2249.6	2254.1	2264.2	2263.3	2263.3	2269.7	2267.8	2285.2
30°	2373.8	2381.1	2388.4	2384.8	2386.6	2399.4	2400.3	2401.2	2409.4	2421.3	2434.1
32.5°	2529.1	2536.4	2532.7	2544.6	2543.7	2559.2	2561.9	2564.7	2590.3	2585.7	2612.2
35°	2720.0	2727.3	2723.6	2736.4	2734.6	2740.1	2750.1	2761.1	2765.6	2792.1	2813.1
37.5°	2809.5	2809.5	2817.7	2832.3	2837.8	2846.9	2862.4	2876.1	2899.0	2927.3	2960.2
40°	2917.2	2920.0	2930.9	2946.5	2956.5	2977.5	3005.8	3025.0	3059.7	3090.8	3129.1
42.5°	3047.9	3059.7	3072.5	3093.5	3115.4	3148.3	3188.5	3213.2	3258.8	3299.0	3346.5
45°	3200.4	3212.3	3242.4	3280.8	3312.7	3349.3	3382.1	3440.6	3481.7	3523.7	3564.8
47.5°	3384.9	3419.6	3444.2	3489.9	3529.2	3577.6	3618.7	3673.5	3718.2	3769.4	3804.1
50°	3621.4	3664.4	3696.3	3755.7	3794.1	3847.9	3900.0	3941.1	3986.8	4037.0	4065.3
52.5°	3961.2	4005.0	4045.2	4119.2	4166.7	4203.2	4272.7	4323.8	4365.8	4402.3	4433.4
55°	4697.4	4684.6	4796.0	4939.4	4955.8	5088.3	5112.9	5155.9	5233.5	5244.5	5331.2
57.5°	6800.8	6735.0	6896.7	7106.8	7070.2	7003.6	7282.1	7299.5	7260.2	7365.3	7246.5
60°	9711.7	9596.6	9640.4	9698.0	9614.8	9575.6	9589.3	9628.5	9590.2	9548.2	9433.1
62.5°	11655.3	11478.1	11351.1	11244.3	11109.1	11011.4	10901.7	10766.6	10730.0	10576.6	10447.8
65°	12069.9	11794.1	11593.2	11391.3	11205.0	11032.4	10867.0	10751.0	10597.6	10415.8	10281.6
67.5°	11614.2	11272.6	10978.5	10685.3	10474.3	10220.4	10096.2	9907.1	9718.0	9509.8	9386.5
70°	10289.8	9933.6	9563.7	9276.9	8990.1	8675.9	8614.7	8390.9	8282.3	7998.2	7948.9
72.5°	7102.2	6864.7	6699.4	6345.0	6170.6	6009.8	5958.7	5751.4	5773.3	5461.8	5575.1
75°	2525.4	2491.6	2443.2	2243.2	2207.6	2145.5	2129.0	2114.4	2262.4	2056.9	2205.7
77.5°	433.8	431.1	406.4	394.6	417.4	402.8	406.4	399.1	442.1	448.5	438.4
80°	269.4	262.1	253.9	248.4	249.3	243.9	244.8	246.6	249.3	248.4	251.2
82.5°	184.5	178.1	174.4	170.8	176.3	178.1	182.7	187.2	194.5	199.1	204.6
85°	100.5	92.2	92.2	91.3	98.6	104.1	111.4	120.6	133.3	144.3	156.2
87.5°	51.1	49.3	50.2	52.1	58.5	63.0	72.2	80.4	91.3	103.2	114.2
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: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1307.9	1307.9	1307.0	1307.0	1306.1	1305.2	1304.3	1301.5	1291.5	1282.3	1276.0
5°	1328.0	1325.3	1324.4	1321.6	1320.7	1318.9	1316.1	1313.4	1295.1	1278.7	1266.8
7.5°	1369.1	1365.5	1363.6	1360.9	1358.2	1354.5	1350.8	1348.1	1326.2	1307.0	1292.4
10°	1423.0	1421.2	1420.3	1416.6	1416.6	1411.1	1410.2	1403.8	1380.1	1362.7	1349.9
12.5°	1497.9	1494.2	1493.3	1488.8	1490.6	1488.8	1486.9	1483.3	1465.9	1445.8	1428.5
15°	1591.1	1591.1	1586.5	1582.8	1583.7	1581.9	1585.6	1581.0	1570.0	1551.8	1523.5
17.5°	1703.4	1701.6	1703.4	1700.7	1702.5	1704.3	1699.7	1700.7	1695.2	1672.3	1630.3
20°	1834.0	1831.3	1842.2	1837.7	1847.7	1838.6	1840.4	1843.1	1843.1	1813.0	1756.4
22.5°	1983.8	1982.0	1982.0	1991.1	1994.8	1995.7	1999.3	2002.1	2009.4	1971.0	1880.6
25°	2133.6	2140.0	2140.9	2152.8	2158.2	2158.2	2161.0	2171.0	2193.0	2140.0	2023.1
27.5°	2286.1	2301.6	2305.3	2313.5	2321.7	2330.0	2336.4	2343.7	2379.3	2321.7	2169.2
30°	2438.6	2456.0	2468.8	2477.9	2488.0	2508.1	2511.7	2526.3	2585.7	2515.4	2308.0
32.5°	2617.7	2642.3	2658.8	2670.6	2686.2	2705.3	2716.3	2734.6	2792.1	2677.0	2409.4
35°	2831.4	2846.0	2869.7	2889.8	2899.0	2931.9	2949.2	2953.8	2997.6	2816.8	2484.3
37.5°	2979.3	3004.0	3045.1	3073.4	3089.9	3108.1	3137.4	3156.5	3198.6	2943.7	2521.8
40°	3167.5	3204.9	3237.8	3279.8	3306.3	3320.0	3349.3	3364.8	3370.3	3052.4	2509.9
42.5°	3396.7	3430.5	3474.4	3508.2	3528.3	3543.8	3567.5	3573.9	3502.7	3103.6	2446.0
45°	3612.3	3664.4	3701.8	3726.5	3741.1	3749.3	3763.9	3764.8	3612.3	3078.0	2336.4
47.5°	3844.3	3881.7	3916.4	3933.8	3932.0	3933.8	3928.3	3924.7	3667.1	2989.4	2195.7
50°	4100.9	4125.6	4140.2	4148.4	4153.0	4135.7	4111.0	4094.5	3671.7	2863.4	2053.2
52.5°	4445.3	4476.3	4473.6	4472.7	4436.1	4419.7	4353.9	4320.1	3645.2	2715.4	1892.5
55°	5317.5	5287.4	5228.0	5257.2	5108.4	5030.7	4928.4	4833.4	3679.9	2574.7	1706.1
57.5°	7294.0	7305.9	7136.9	7046.5	6795.3	6481.1	6228.1	5982.4	3992.3	2488.9	1463.2
60°	9356.4	9201.1	8986.5	8659.5	8336.1	7869.4	7419.1	6993.5	4303.7	2399.4	1175.5
62.5°	10256.9	10035.9	9711.7	9288.8	8781.0	8210.1	7649.3	7130.5	4153.0	2109.8	854.9
65°	10074.3	9736.3	9378.3	8883.2	8265.8	7640.2	6985.3	6455.6	3474.4	1573.7	527.0
67.5°	9118.9	8832.1	8454.0	7866.7	7206.3	6555.1	5955.0	5361.4	2581.1	980.9	295.0
70°	7696.8	7416.4	7032.8	6431.8	5772.4	5149.5	4513.8	4029.7	1644.9	473.1	212.8
72.5°	5339.4	5112.0	4840.8	4412.4	3834.2	3268.0	2837.8	2466.0	911.5	251.2	194.5
75°	2168.3	2169.2	2119.9	1939.0	1638.6	1413.0	1204.7	1022.0	380.9	213.7	191.8
77.5°	491.4	499.6	546.2	517.9	466.7	436.6	390.9	345.2	232.0	220.1	193.6
80°	248.4	249.3	246.6	247.5	244.8	245.7	242.0	239.3	217.4	226.5	193.6
82.5°	207.3	211.9	211.0	211.0	211.9	211.9	211.9	211.0	225.6	238.4	187.2
85°	164.4	173.5	180.8	188.2	196.4	201.9	204.6	207.3	219.2	234.7	169.9
87.5°	124.2	135.2	144.3	151.6	164.4	164.4	173.5	179.9	179.9	183.6	89.5
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: P159329

CATALOG NUMBER: VST-E05-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1311.6	1311.6	1311.6	1311.6	1311.6
2.5°	1266.8	1263.2	1259.5	1257.7	1254.0
5°	1257.7	1250.4	1245.8	1245.8	1242.2
7.5°	1284.2	1281.4	1275.0	1271.4	1275.0
10°	1340.8	1336.2	1328.9	1323.4	1326.2
12.5°	1416.6	1398.3	1383.7	1377.3	1372.8
15°	1495.2	1458.6	1429.4	1413.0	1408.4
17.5°	1579.2	1515.2	1471.4	1446.7	1442.2
20°	1665.0	1585.6	1523.5	1491.5	1490.6
22.5°	1768.2	1662.3	1582.8	1540.8	1538.1
25°	1876.9	1730.8	1625.8	1571.9	1566.4
27.5°	1971.0	1785.6	1652.3	1588.3	1582.8
30°	2049.6	1826.7	1674.2	1600.2	1592.9
32.5°	2106.2	1850.4	1683.3	1603.8	1595.6
35°	2124.5	1841.3	1657.7	1571.0	1561.8
37.5°	2099.8	1781.9	1586.5	1490.6	1479.6
40°	2025.8	1677.8	1470.5	1371.9	1358.2
42.5°	1912.6	1550.0	1330.8	1236.7	1219.3
45°	1772.8	1405.6	1191.9	1086.9	1078.7
47.5°	1626.7	1254.0	1035.7	940.8	930.7
50°	1468.7	1078.7	883.2	780.0	780.0
52.5°	1280.5	907.9	706.0	628.4	622.0
55°	1064.1	715.2	562.6	503.3	495.0
57.5°	831.1	549.8	449.4	414.7	405.5
60°	611.0	412.8	361.7	342.5	338.9
62.5°	414.7	314.2	291.4	283.1	282.2
65°	280.4	244.8	238.4	235.6	236.6
67.5°	215.6	203.7	200.9	200.0	200.0
70°	187.2	179.9	177.2	178.1	177.2
72.5°	176.3	166.2	167.1	169.0	168.1
75°	172.6	159.8	163.5	164.4	160.7
77.5°	169.9	152.5	161.7	164.4	154.4
80°	164.4	146.1	168.1	169.0	151.6
82.5°	150.7	129.7	168.1	155.3	137.0
85°	127.9	98.6	190.0	135.2	101.4
87.5°	81.3	58.5	128.8	92.2	61.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)