

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: McGRAW-EDISON

Report Number: P158548

Luminaire Tested: **VTS-E04-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158548  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E04-LED-E1-SL4-8030  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

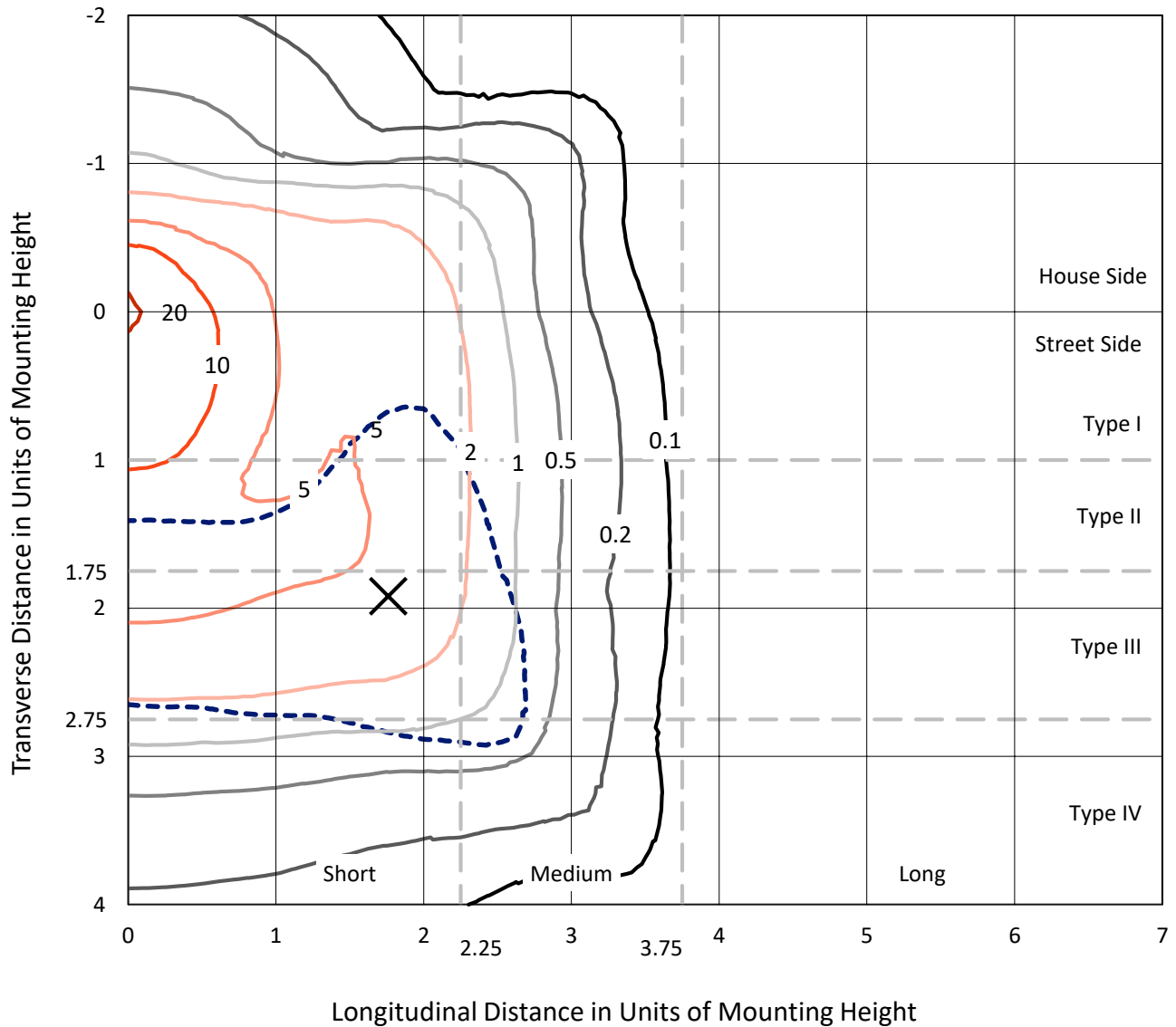
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9793.4 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full 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: 25 FT

REPORT NUMBER: P158548  
 CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

### Iso-Footcandle Lines of Horizontal Illumination

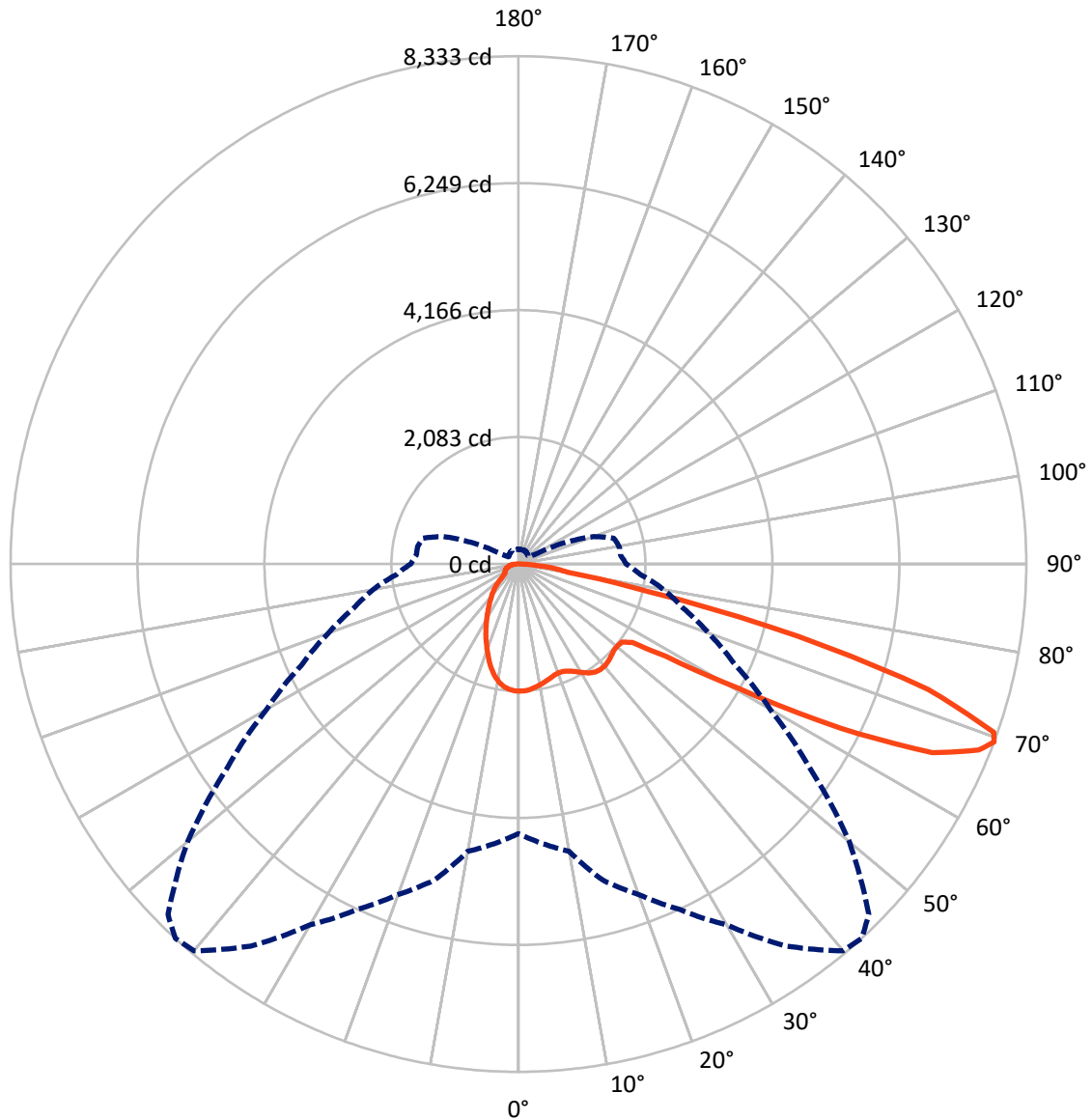
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 fc  
 Type IV - Short - Full Cutoff

REPORT NUMBER: P158548  
CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P158548

CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2177.2	0.0	2177.2
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	7616.2	0.0	7616.2
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	9793.4	0.0	9793.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.1	2.0
10°-20°	523.3	5.3
20°-30°	763.0	7.8
30°-40°	972.7	9.9
40°-50°	1131.8	11.6
50°-60°	1722.0	17.6
60°-70°	3041.8	31.1
70°-80°	1255.2	12.8
80°-90°	189.5	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°	9793.4	100.0
0°-180°	9793.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P158548

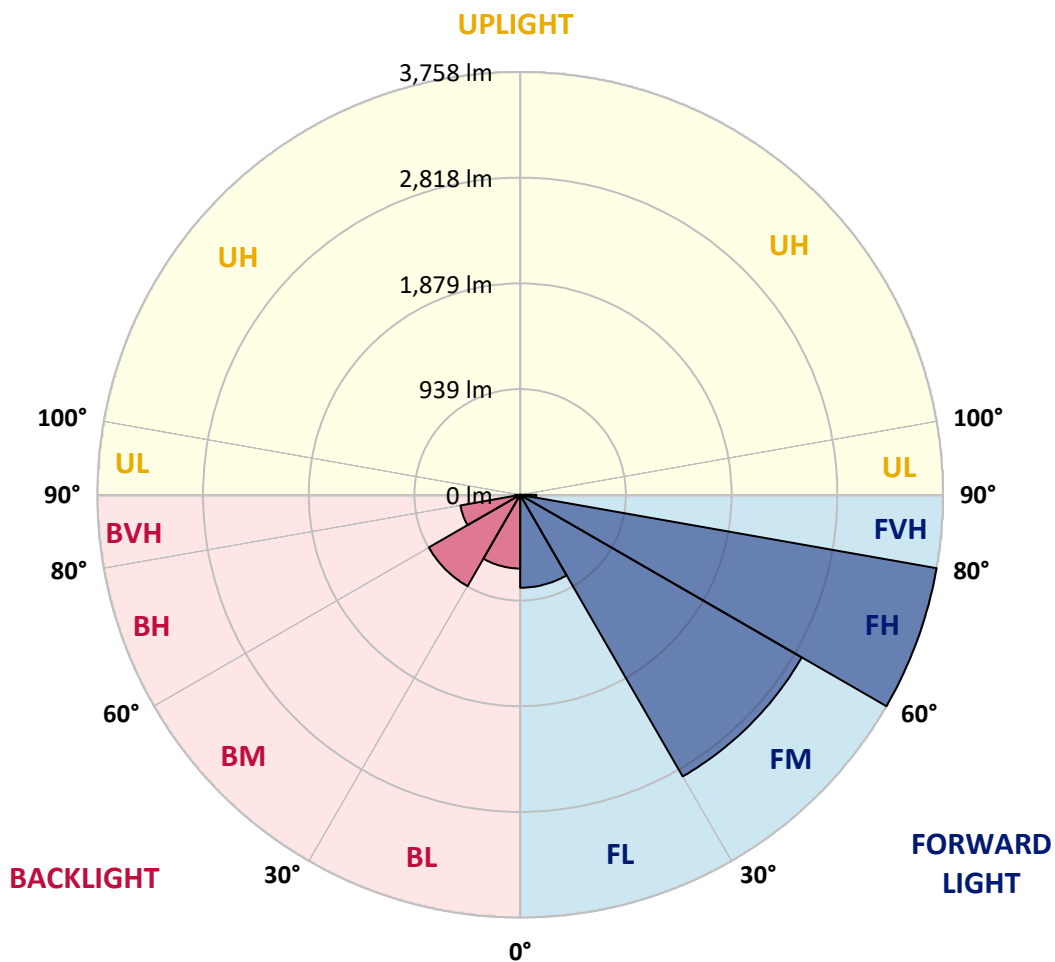
CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	825.8	8.4			
FM (30°-60°)	2889.3	29.5			
FH (60°-80°)	3757.7	38.4			G2/5000
FVH (80°-90°)	143.3	1.5			G2/225
BL (0°-30°)	654.6	6.7	B2/1000		
BM (30°-60°)	937.1	9.6	B1/1000		
BH (60°-80°)	539.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	46.2	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 IV Short





REPORT NUMBER: P158548

CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2078.9	2086.3	2083.6	2083.6	2085.7	2082.3	2082.3	2083.6	2080.3	2082.3	2081.6
5°	2071.5	2075.5	2074.2	2074.2	2074.2	2071.5	2070.1	2069.5	2064.7	2064.7	2062.7
7.5°	2055.3	2056.6	2058.7	2056.0	2055.3	2054.6	2049.9	2047.2	2041.8	2037.1	2038.4
10°	2033.7	2033.0	2036.4	2034.4	2031.7	2029.6	2025.6	2020.9	2014.8	2008.7	2008.0
12.5°	2009.4	2008.7	2011.4	2010.0	2008.0	2004.0	2000.6	1992.5	1983.0	1975.6	1974.9
15°	1993.8	1991.8	1994.5	1991.8	1988.4	1984.4	1978.3	1968.2	1951.3	1943.9	1937.8
17.5°	2008.7	2005.3	2006.7	2003.3	1998.6	1987.8	1973.6	1952.0	1927.7	1914.8	1905.4
20°	2060.7	2054.6	2056.0	2052.6	2041.8	2027.6	2000.6	1962.8	1921.6	1900.7	1885.8
22.5°	2135.0	2130.2	2132.3	2128.9	2118.1	2096.5	2056.0	2001.9	1943.2	1912.8	1889.2
25°	2247.7	2251.8	2253.1	2237.6	2231.5	2191.7	2135.6	2060.7	1982.4	1946.6	1914.2
27.5°	2374.7	2374.7	2380.7	2374.7	2362.5	2315.9	2236.9	2146.4	2045.8	1997.2	1958.1
30°	2498.2	2496.9	2508.3	2507.0	2487.4	2434.7	2344.9	2234.9	2120.1	2065.4	2015.5
32.5°	2629.2	2633.3	2640.7	2638.0	2612.3	2539.4	2431.4	2311.9	2191.0	2130.9	2074.9
35°	2771.0	2773.0	2775.7	2774.4	2722.4	2630.6	2494.8	2361.1	2235.6	2176.1	2118.1
37.5°	2912.8	2910.8	2907.4	2878.3	2818.9	2691.3	2533.3	2389.5	2257.8	2193.7	2133.6
40°	3039.7	3028.2	3017.4	2972.2	2881.0	2725.8	2548.2	2396.3	2255.8	2189.7	2130.9
42.5°	3109.3	3096.4	3074.2	3017.4	2906.7	2729.1	2538.0	2376.0	2234.9	2169.4	2111.3
45°	3122.1	3112.6	3091.0	3027.6	2900.6	2707.5	2507.0	2342.9	2203.8	2138.3	2083.6
47.5°	3091.7	3084.3	3063.3	3000.6	2874.3	2675.1	2471.2	2307.8	2173.4	2112.0	2059.3
50°	3045.1	3038.4	3022.2	2964.8	2844.6	2652.8	2453.0	2289.6	2163.3	2107.3	2058.7
52.5°	3120.7	3126.1	3078.9	3016.1	2876.3	2672.4	2473.2	2308.5	2181.5	2126.2	2075.5
55°	4296.3	4288.8	4004.6	3766.2	3340.2	2954.0	2665.7	2458.4	2322.7	2267.3	2220.0
57.5°	5582.5	5556.8	5440.0	5217.2	4759.4	4148.4	3592.7	3120.1	2933.7	2854.0	2859.4
60°	6002.5	6011.9	5986.9	5907.9	5743.9	5425.8	5003.2	4648.0	4298.3	4127.5	4147.0
62.5°	6235.4	6252.3	6273.9	6256.3	6203.0	6129.4	6076.1	6108.5	6059.9	5937.0	5839.1
65°	6267.8	6302.2	6373.8	6430.5	6458.2	6527.8	6691.2	7082.8	7440.6	7464.3	7292.1
67.5°	5626.4	5721.6	5876.9	6139.5	6364.4	6611.5	7005.8	7601.3	8129.3	8146.9	7986.2
69°	4423.9	4606.8	4788.5	5375.2	5770.2	6254.3	6837.7	7651.3	8283.9	8332.6	8130.0
70°	3544.8	3653.5	3810.1	4399.6	4989.7	5606.8	6452.1	7486.5	8177.9	8275.8	8052.3
72.5°	2128.2	2170.1	2224.1	2435.4	2739.3	3288.9	4409.7	6103.7	6898.4	7029.4	6745.2
75°	1376.0	1373.3	1378.1	1436.8	1454.4	1559.7	1912.8	3140.3	4500.2	4737.8	4397.5
77.5°	1036.4	1045.9	1031.0	1036.4	1031.7	1060.1	1070.9	1124.2	1776.4	2188.3	1956.7
80°	914.9	919.6	920.3	917.6	884.5	881.8	899.4	869.0	807.5	819.7	785.2
82.5°	521.9	521.2	527.3	573.2	592.1	654.3	679.9	694.1	640.8	600.9	543.5
85°	338.3	341.0	347.7	361.9	347.7	353.1	347.0	359.2	329.5	305.9	273.5
87.5°	138.4	138.4	147.2	160.0	149.2	146.5	125.6	124.2	105.3	95.2	74.3
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: P158548

CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2077.6	2081.6	2079.6	2082.3	2080.3	2080.3	2077.6	2076.9	2078.9	2076.2	2076.9
5°	2059.3	2060.0	2056.6	2058.0	2053.9	2052.6	2050.6	2045.2	2048.5	2045.2	2046.5
7.5°	2033.0	2031.0	2026.3	2019.5	2014.8	2012.7	2008.7	2001.3	2002.6	1996.5	1999.9
10°	1999.2	1992.5	1984.4	1974.3	1967.5	1961.4	1952.7	1943.9	1939.2	1933.8	1933.1
12.5°	1961.4	1953.3	1942.5	1927.0	1912.1	1902.0	1888.5	1873.0	1868.3	1859.5	1854.8
15°	1920.2	1907.4	1894.6	1877.0	1860.8	1845.3	1827.1	1807.5	1794.7	1781.2	1771.0
17.5°	1883.1	1868.3	1851.4	1834.5	1816.9	1798.0	1775.1	1750.8	1731.9	1706.9	1686.6
20°	1854.1	1835.2	1818.3	1800.7	1781.2	1758.2	1730.5	1699.5	1667.7	1640.0	1616.4
22.5°	1842.6	1812.9	1792.6	1775.1	1755.5	1728.5	1694.7	1658.3	1619.8	1581.3	1550.2
25°	1852.1	1808.2	1776.4	1755.5	1738.6	1710.9	1673.1	1628.6	1584.0	1538.1	1496.2
27.5°	1879.7	1823.7	1777.8	1744.7	1725.1	1697.4	1657.6	1610.3	1557.7	1506.4	1455.0
30°	1922.9	1850.0	1792.0	1745.4	1715.0	1683.3	1641.4	1586.7	1533.4	1474.6	1418.6
32.5°	1964.8	1877.7	1808.2	1748.1	1701.5	1660.3	1613.7	1559.7	1502.3	1440.9	1382.8
35°	1994.5	1895.9	1814.2	1742.0	1680.6	1629.2	1579.3	1525.3	1469.2	1406.4	1347.0
37.5°	2008.7	1906.1	1814.9	1725.8	1652.9	1596.2	1542.8	1489.5	1436.8	1377.4	1321.4
40°	2008.0	1905.4	1805.5	1704.9	1619.8	1559.7	1507.0	1455.0	1405.8	1353.8	1303.1
42.5°	1993.2	1894.6	1792.0	1684.6	1596.2	1529.3	1474.6	1424.7	1382.8	1336.9	1294.3
45°	1970.2	1876.4	1777.8	1675.2	1589.4	1522.6	1464.5	1415.9	1378.7	1336.9	1300.4
47.5°	1952.7	1866.2	1779.8	1692.0	1610.3	1540.8	1479.3	1426.0	1394.3	1360.5	1334.9
50°	1955.4	1871.0	1786.6	1702.2	1625.2	1555.0	1495.6	1446.9	1424.0	1415.2	1409.1
52.5°	1969.5	1878.4	1806.8	1756.2	1729.8	1677.2	1642.1	1611.7	1628.6	1595.5	1556.3
55°	2150.5	2120.8	2190.3	2255.8	2338.9	2369.9	2340.2	2334.8	2361.8	2249.7	1992.5
57.5°	2897.9	2974.9	3082.3	3139.0	3207.8	3189.6	3120.7	3063.3	2995.8	2864.8	2544.1
60°	4169.3	4111.2	4062.6	3925.6	3813.5	3682.5	3536.7	3411.7	3292.2	3103.9	2756.8
62.5°	5479.2	5076.1	4739.2	4413.7	4151.8	3934.3	3723.0	3535.3	3354.4	3091.7	2718.3
65°	6612.2	5763.4	5130.8	4653.4	4270.6	3940.4	3669.0	3409.7	3179.5	2871.6	2502.3
67.5°	7121.3	6057.8	5137.5	4453.6	3923.5	3475.2	3124.1	2732.5	2474.6	2277.4	2069.5
69°	7083.4	5833.0	4770.9	3928.9	3319.9	2797.3	2420.6	2012.1	1765.0	1681.2	1676.5
70°	6903.8	5452.2	4342.8	3502.9	2806.1	2286.9	1925.6	1559.0	1328.8	1271.4	1373.3
72.5°	5636.5	3852.6	2721.7	2078.2	1598.2	1263.3	1030.3	817.7	652.9	565.8	584.7
75°	3183.5	1783.9	1153.2	871.7	736.6	609.0	522.6	445.6	403.1	327.5	259.3
77.5°	1157.3	765.7	609.0	526.7	373.4	257.2	215.4	188.4	170.8	170.8	162.7
80°	731.9	576.6	402.4	275.5	203.9	177.6	155.3	136.4	125.6	122.9	125.6
82.5°	457.1	353.1	225.5	172.8	145.2	130.3	113.4	99.3	90.5	88.5	92.5
85°	225.5	174.9	137.1	122.2	114.8	106.7	93.9	80.3	77.6	83.0	97.2
87.5°	67.5	60.1	49.3	51.3	54.0	52.7	41.9	36.5	34.4	45.2	70.9
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: P158548

CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2078.2	2077.6	2078.9	2076.9	2078.2	2078.9	2077.6	2083.6	2079.6	2080.3	2083.0
5°	2047.9	2046.5	2051.9	2050.6	2053.3	2056.0	2054.6	2063.4	2060.0	2062.7	2068.1
7.5°	1997.2	1999.9	2000.6	2000.6	2006.0	2014.8	2016.8	2022.2	2022.2	2029.6	2035.0
10°	1929.7	1930.4	1934.4	1933.8	1940.5	1950.0	1951.3	1960.8	1964.1	1976.3	1983.7
12.5°	1851.4	1848.0	1847.3	1846.7	1855.4	1865.6	1866.9	1883.1	1889.9	1900.7	1912.8
15°	1763.6	1754.8	1752.1	1757.5	1755.5	1761.6	1767.7	1776.4	1785.9	1807.5	1818.3
17.5°	1677.9	1660.3	1655.6	1649.5	1643.4	1643.4	1646.1	1656.9	1676.5	1688.0	1712.3
20°	1590.1	1569.1	1552.3	1536.1	1521.9	1516.5	1517.2	1530.7	1544.8	1563.7	1586.7
22.5°	1516.5	1484.7	1455.7	1434.1	1405.1	1404.4	1400.3	1404.4	1419.9	1424.7	1437.5
25°	1453.0	1410.5	1371.3	1336.2	1307.8	1293.0	1288.9	1287.6	1280.2	1278.1	1268.7
27.5°	1403.7	1352.4	1301.8	1259.2	1224.1	1203.9	1178.2	1160.0	1133.6	1126.9	1110.0
30°	1363.2	1307.8	1252.5	1197.1	1157.3	1120.8	1077.6	1045.9	1005.4	979.0	956.1
32.5°	1324.1	1268.0	1212.0	1157.3	1095.8	1039.1	982.4	933.1	887.9	847.4	813.6
35°	1291.6	1238.3	1181.6	1115.4	1037.1	955.4	887.2	831.2	769.0	726.5	684.0
37.5°	1270.7	1222.1	1165.4	1074.2	973.6	885.9	808.2	740.0	676.5	612.4	564.5
40°	1261.3	1218.7	1147.8	1036.4	918.3	821.0	735.3	659.7	578.6	506.4	455.1
42.5°	1260.6	1217.4	1123.5	994.6	872.3	766.3	671.1	580.7	490.9	416.6	366.0
45°	1272.7	1215.3	1097.9	959.4	831.8	721.1	607.7	497.6	397.0	341.6	314.6
47.5°	1305.1	1218.7	1076.9	927.0	793.4	666.4	534.8	406.5	323.4	297.8	297.8
50°	1363.2	1238.3	1071.5	904.1	754.9	602.9	445.6	328.1	286.3	286.3	294.4
52.5°	1452.3	1279.5	1081.0	887.9	706.9	519.2	351.1	282.9	274.8	282.2	293.0
55°	1657.6	1352.4	1093.8	860.2	634.0	411.9	289.7	267.4	270.8	279.5	289.7
57.5°	2034.4	1508.4	1107.3	799.4	516.5	317.3	262.6	261.3	267.4	275.5	284.3
60°	2282.2	1706.9	1141.8	707.6	390.9	262.0	249.1	257.2	264.7	271.4	278.2
62.5°	2282.2	1762.9	1167.4	605.0	293.7	238.3	240.4	253.2	262.0	265.4	269.4
65°	2136.3	1660.3	1080.3	492.9	239.0	224.8	232.3	245.1	253.2	255.9	259.3
67.5°	1866.9	1466.5	910.2	371.4	213.4	213.4	222.8	232.3	239.0	244.4	249.8
69°	1623.2	1316.0	801.5	314.6	203.2	204.6	214.0	222.1	230.2	237.0	243.7
70°	1447.6	1203.2	725.8	285.6	197.2	197.8	207.3	216.1	223.5	230.9	239.0
72.5°	775.1	831.2	551.6	234.3	181.6	183.7	192.4	200.5	207.3	214.7	222.1
75°	264.0	357.2	351.1	191.8	164.1	169.5	174.9	182.3	191.1	195.8	199.9
77.5°	154.6	160.0	187.0	156.0	147.9	150.6	156.6	162.7	170.1	174.9	178.3
80°	129.6	129.0	129.6	126.9	129.0	135.0	139.1	147.2	153.9	155.3	154.6
82.5°	105.3	110.7	111.4	110.1	116.1	120.9	124.2	129.0	128.3	129.6	132.3
85°	93.9	93.2	97.9	98.6	98.6	95.2	95.9	95.9	95.9	97.9	98.6
87.5°	93.9	78.3	60.8	54.7	57.4	54.0	51.3	50.6	56.0	61.4	60.1
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: P158548

CATALOG NUMBER: VTS-E04-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	2085.7	2085.7	2085.7	2085.7	2085.7
2.5°	2084.3	2086.3	2085.0	2085.0	2086.3
5°	2070.1	2073.5	2072.2	2073.5	2073.5
7.5°	2037.7	2042.5	2045.8	2049.2	2047.2
10°	1991.1	1999.2	2004.6	2008.7	2006.7
12.5°	1921.6	1929.0	1940.5	1947.3	1941.9
15°	1826.4	1847.3	1854.1	1863.5	1858.1
17.5°	1727.1	1740.0	1748.1	1756.9	1762.3
20°	1594.8	1604.9	1615.7	1619.8	1613.7
22.5°	1435.5	1440.9	1438.8	1444.9	1432.8
25°	1260.6	1264.0	1261.9	1267.3	1257.2
27.5°	1095.2	1094.5	1095.2	1088.4	1081.7
30°	935.8	929.7	927.0	916.9	914.9
32.5°	793.4	772.4	761.6	746.8	743.4
35°	650.9	621.2	601.6	584.7	577.3
37.5°	523.3	487.5	464.5	449.7	447.7
40°	413.9	380.8	364.6	356.5	355.2
42.5°	337.6	323.4	319.4	319.4	319.4
45°	307.9	307.2	310.6	313.3	314.0
47.5°	301.8	305.9	310.6	314.6	316.0
50°	301.8	305.9	309.2	313.3	314.6
52.5°	300.5	303.8	305.2	307.9	309.2
55°	296.4	298.4	298.4	299.8	301.1
57.5°	289.7	291.0	289.0	290.3	293.7
60°	282.9	284.3	280.9	284.3	286.3
62.5°	275.5	276.2	274.8	277.5	277.5
65°	263.3	262.0	264.0	266.0	266.7
67.5°	251.2	247.8	249.8	250.5	251.8
69°	241.7	239.7	240.4	241.7	243.1
70°	235.0	233.6	235.0	237.0	239.0
72.5°	218.1	218.8	223.5	227.5	231.6
75°	202.6	207.3	213.4	222.1	226.9
77.5°	183.7	187.0	191.8	201.2	210.0
80°	158.7	160.7	161.4	164.7	164.1
82.5°	129.0	126.9	125.6	124.2	123.6
85°	92.5	91.8	86.4	82.4	82.4
87.5°	55.4	52.7	50.0	46.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)