

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: P157885

Luminaire Tested: **VTS-F03-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157885
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F03-LED-E1-RW
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

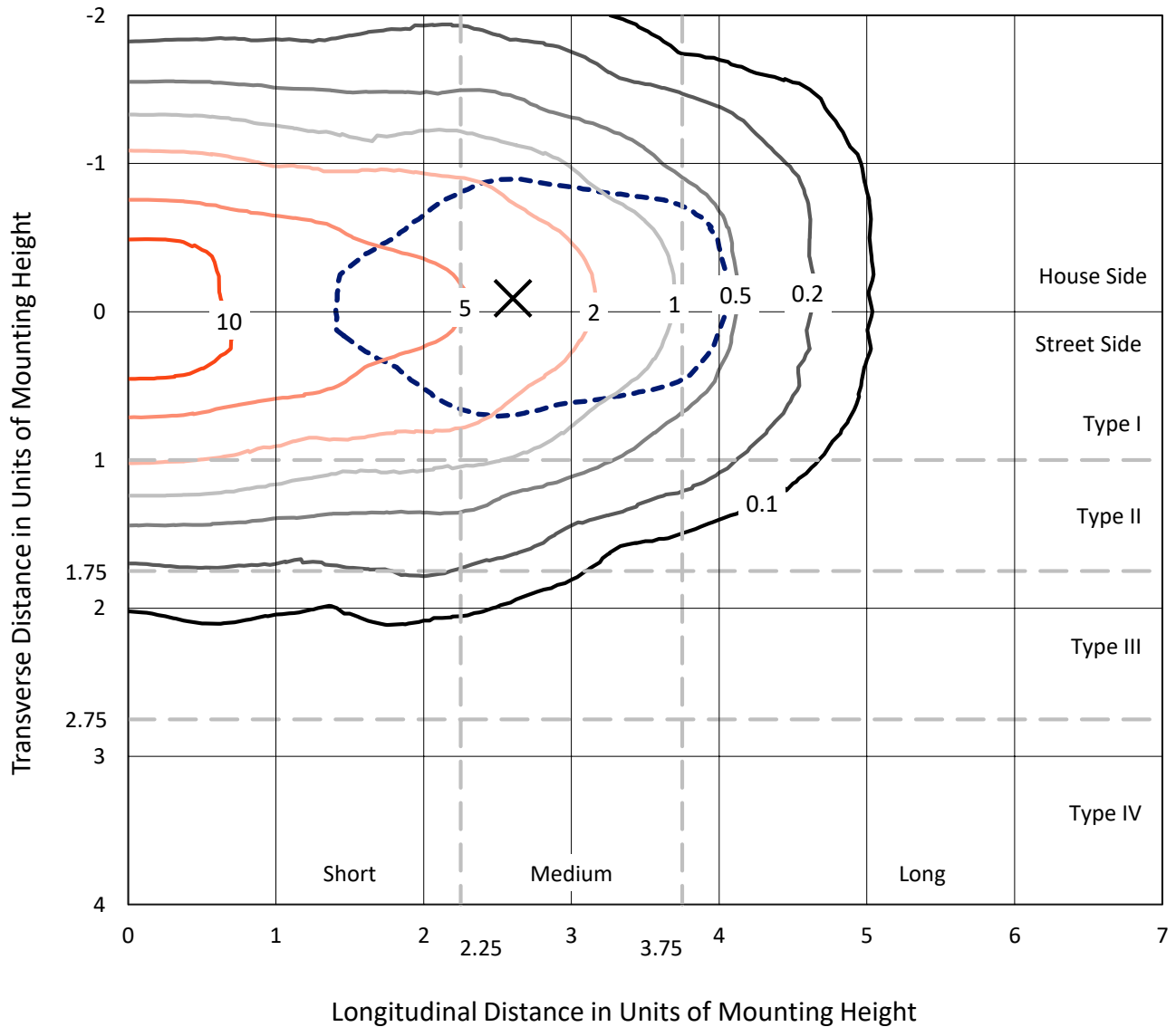
Lumens per Lamp: N/A
Luminaire Lumens: 7715.6 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): 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

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Iso-Footcandle Lines of Horizontal Illumination

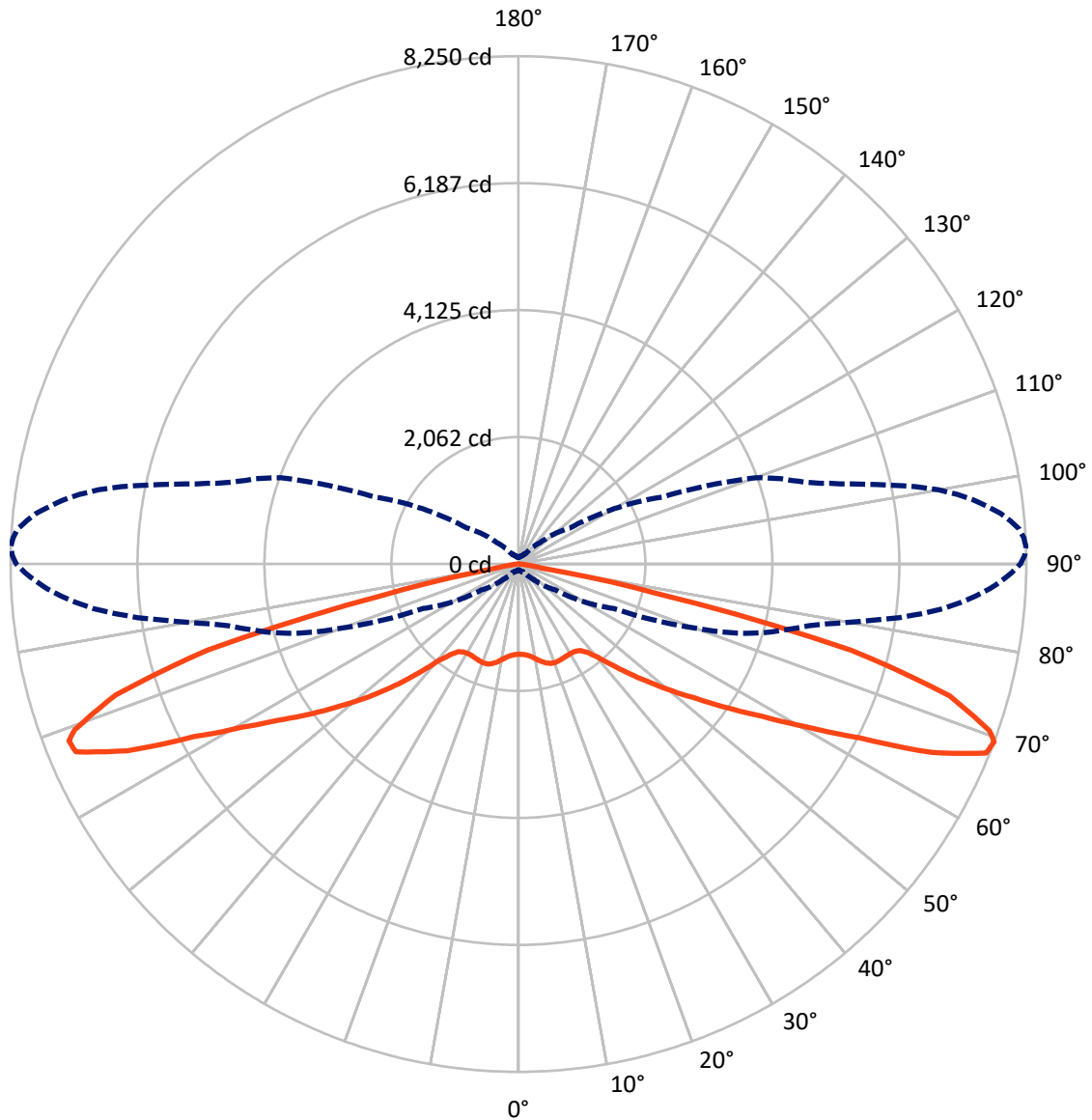
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4092.0	0.0	4092.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	3623.6	0.0	3623.6
	% Fixture	47.0	0.0	47.0
Total	Lumens	7715.6	0.0	7715.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	1.9
10°-20°	453.0	5.9
20°-30°	735.0	9.5
30°-40°	916.0	11.9
40°-50°	1140.6	14.8
50°-60°	1406.6	18.2
60°-70°	1746.9	22.6
70°-80°	1073.4	13.9
80°-90°	100.6	1.3
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°	7715.6	100.0
0°-180°	7715.6	100.0



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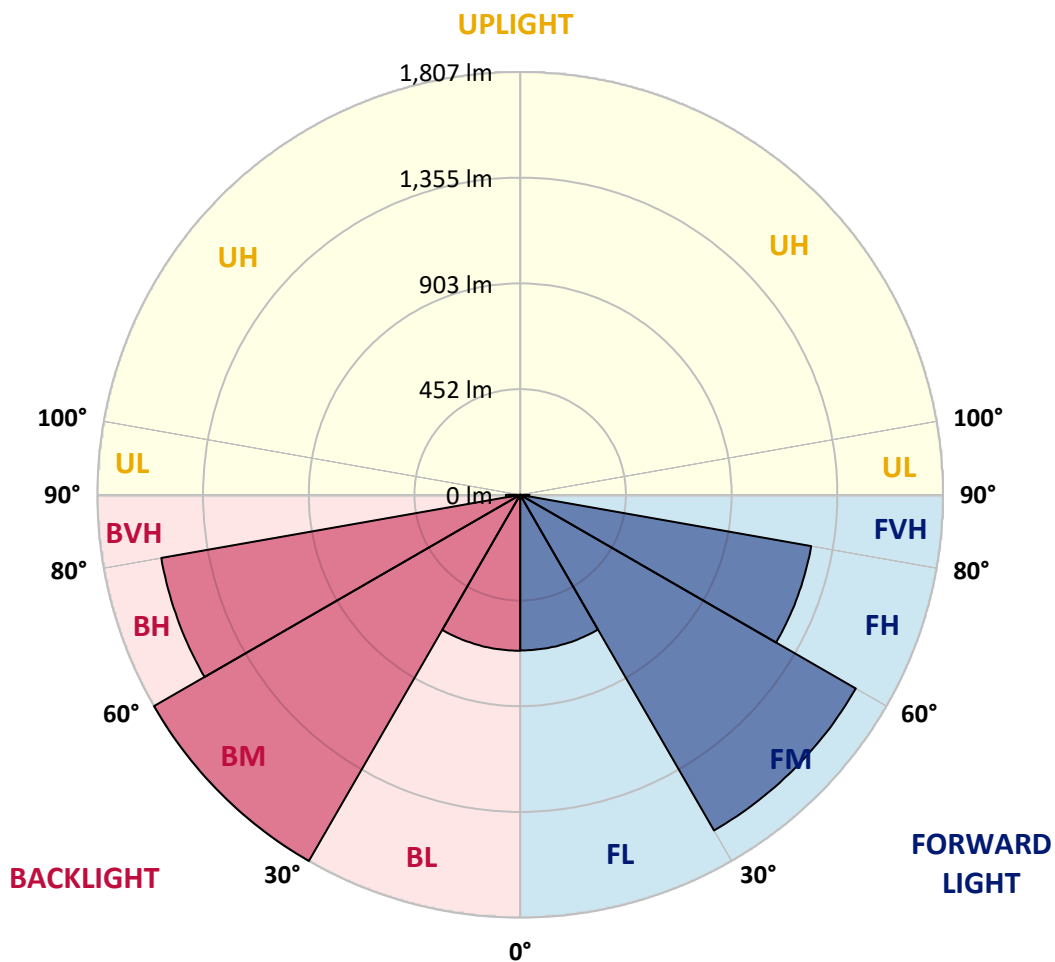
CATALOG NUMBER: VTS-F03-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	665.0	8.6			
FM	(30°-60°)	1656.2	21.5			
FH	(60°-80°)	1262.9	16.4			G1/1800
FVH	(80°-90°)	39.4	0.5			G1/100
BL	(0°-30°)	666.4	8.6	B2/1000		
BM	(30°-60°)	1807.0	23.4	B2/2500		
BH	(60°-80°)	1557.3	20.2	B3/2500		G3/2500
BVH	(80°-90°)	61.2	0.8			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1488.9	1485.0	1488.4	1488.9	1488.4	1488.4	1484.0	1483.0	1477.0	1478.5	1478.0
5°	1509.2	1507.7	1510.2	1511.2	1512.2	1510.2	1506.7	1505.3	1501.3	1499.8	1499.3
7.5°	1528.0	1525.6	1529.5	1533.0	1535.5	1536.0	1536.5	1534.0	1534.0	1532.0	1532.0
10°	1543.9	1541.9	1548.4	1552.8	1560.7	1565.2	1570.1	1573.6	1575.6	1576.1	1575.6
12.5°	1550.8	1549.3	1559.7	1573.1	1588.0	1598.4	1610.8	1619.7	1622.2	1621.7	1624.1
15°	1538.9	1539.9	1555.8	1582.0	1613.7	1640.0	1657.3	1664.8	1666.7	1667.7	1668.2
17.5°	1506.7	1508.7	1531.5	1574.1	1629.6	1677.1	1702.9	1702.9	1698.9	1698.9	1698.4
20°	1455.2	1457.2	1486.9	1548.4	1630.1	1702.9	1739.5	1732.1	1717.3	1714.3	1711.3
22.5°	1383.9	1391.8	1424.5	1495.9	1608.8	1710.3	1762.3	1751.4	1728.2	1721.7	1717.3
25°	1303.2	1302.2	1341.3	1421.6	1557.3	1692.5	1768.8	1766.8	1742.0	1735.1	1727.2
27.5°	1211.0	1214.0	1250.2	1331.4	1478.5	1641.0	1757.9	1784.1	1763.8	1756.9	1749.5
30°	1116.4	1119.4	1153.6	1248.2	1388.9	1567.2	1735.6	1801.0	1793.0	1787.6	1782.6
32.5°	1021.3	1022.3	1062.9	1164.5	1313.1	1479.0	1701.9	1816.3	1827.2	1824.7	1822.8
35°	932.2	933.2	977.3	1080.3	1238.3	1403.7	1661.3	1838.6	1873.8	1876.7	1878.7
37.5°	845.5	847.0	892.1	1000.0	1164.5	1346.8	1616.2	1872.8	1939.2	1950.1	1952.0
40°	759.3	760.8	803.9	918.3	1089.7	1296.7	1581.5	1920.8	2027.3	2042.2	2057.5
42.5°	677.1	682.5	719.2	828.7	1006.5	1234.8	1566.7	1979.3	2131.8	2155.1	2172.5
45°	600.3	600.8	642.4	745.0	907.9	1151.1	1556.8	2045.7	2248.7	2283.9	2307.7
47.5°	518.1	524.0	567.6	667.2	815.8	1047.6	1525.1	2123.4	2376.0	2417.1	2465.2
50°	438.4	446.8	488.9	587.4	731.6	940.6	1439.9	2214.6	2519.2	2572.7	2628.1
52.5°	361.6	361.1	405.7	508.2	646.9	850.0	1301.7	2310.1	2684.6	2742.1	2802.0
55°	273.4	273.4	317.5	411.1	555.2	769.2	1153.6	2369.6	2838.2	2907.5	2972.9
57.5°	187.7	192.7	234.3	315.0	459.7	695.4	1040.2	2335.4	2955.5	3041.7	3119.5
60°	139.2	144.1	174.8	226.4	359.6	608.2	955.0	2174.4	3026.4	3140.8	3241.8
62.5°	120.4	123.8	153.1	181.3	259.0	515.6	879.7	1969.9	3128.4	3284.9	3425.6
65°	107.5	111.0	140.2	156.5	202.6	414.6	837.6	1853.0	3250.3	3489.5	3693.6
67.5°	99.6	103.5	128.3	140.2	176.8	375.0	804.9	1825.7	3249.3	3539.5	3800.1
69°	95.6	98.6	118.9	131.8	170.9	363.1	734.1	1707.4	3034.8	3346.3	3607.9
70°	93.1	96.1	113.4	126.3	168.9	341.8	668.7	1550.8	2790.6	3104.1	3369.6
72.5°	85.2	88.2	101.0	112.9	140.7	228.3	466.1	992.6	1994.1	2218.0	2521.6
75°	75.3	78.8	88.7	98.6	106.5	132.2	269.0	515.1	1140.2	1310.1	1580.6
77.5°	61.4	64.9	75.3	91.1	90.1	100.5	174.8	316.5	533.9	662.2	762.3
80°	50.5	53.0	61.9	92.1	73.8	84.2	141.7	259.5	375.9	415.6	439.3
82.5°	33.7	37.1	48.0	72.3	56.5	59.9	106.0	242.7	318.0	348.7	377.4
85°	15.9	17.3	29.2	38.6	34.2	32.2	60.4	171.4	236.8	251.1	262.0
87.5°	0.0	0.0	1.5	3.0	4.5	4.5	10.9	36.2	66.4	80.2	79.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1476.0	1476.5	1476.0	1476.0	1475.5	1474.6	1474.6	1473.6	1474.1	1473.6	1474.6
5°	1498.8	1498.8	1497.3	1496.3	1497.8	1496.3	1496.8	1494.4	1494.4	1492.9	1490.9
7.5°	1531.5	1531.5	1532.0	1529.0	1531.0	1531.5	1530.0	1529.0	1528.0	1525.6	1526.1
10°	1575.1	1575.1	1576.6	1572.6	1574.6	1575.6	1576.1	1576.1	1575.1	1570.6	1571.1
12.5°	1623.6	1622.7	1623.1	1621.2	1623.1	1624.1	1625.1	1624.1	1624.1	1623.1	1622.7
15°	1667.7	1667.2	1668.2	1666.7	1667.2	1668.2	1671.2	1670.7	1670.2	1667.2	1667.2
17.5°	1697.9	1696.5	1695.5	1695.0	1695.0	1694.5	1695.0	1695.0	1693.5	1693.0	1693.0
20°	1709.3	1705.4	1702.9	1701.4	1699.4	1698.4	1697.4	1697.9	1696.9	1695.5	1696.0
22.5°	1711.3	1705.9	1700.9	1696.5	1692.5	1690.0	1687.5	1686.5	1684.1	1682.6	1682.6
25°	1720.7	1712.3	1704.4	1696.9	1691.0	1685.6	1680.1	1676.1	1673.2	1669.7	1668.7
27.5°	1741.5	1732.6	1723.2	1713.8	1705.9	1695.0	1687.5	1679.6	1672.7	1667.2	1663.3
30°	1773.7	1764.8	1755.4	1744.5	1734.1	1722.7	1710.3	1700.9	1691.0	1680.1	1674.2
32.5°	1816.3	1810.4	1801.0	1790.6	1781.2	1769.3	1754.4	1740.0	1730.6	1717.8	1708.3
35°	1877.2	1870.3	1867.3	1862.9	1853.5	1846.0	1829.7	1816.3	1807.4	1789.6	1782.6
37.5°	1960.5	1960.0	1962.4	1961.0	1962.4	1953.0	1945.6	1945.1	1932.2	1914.9	1898.0
40°	2073.9	2079.8	2093.2	2102.6	2111.5	2112.5	2122.9	2112.0	2113.5	2111.0	2093.7
42.5°	2203.2	2223.5	2239.3	2267.1	2288.4	2308.2	2321.5	2339.9	2353.7	2366.1	2369.1
45°	2347.3	2377.5	2414.2	2438.9	2480.5	2513.7	2559.3	2594.5	2631.1	2667.3	2680.1
47.5°	2503.8	2541.5	2582.1	2628.1	2680.6	2732.7	2803.0	2857.0	2915.9	2965.0	3008.5
50°	2676.7	2715.8	2770.3	2823.3	2895.6	2955.5	3047.7	3118.5	3213.6	3279.0	3335.5
52.5°	2857.0	2906.0	2966.9	3025.4	3099.2	3176.0	3278.5	3383.0	3497.4	3596.5	3678.7
55°	3033.3	3093.7	3152.2	3220.5	3302.3	3391.4	3507.3	3645.0	3787.7	3901.1	4010.1
57.5°	3190.3	3260.2	3329.0	3398.4	3482.1	3585.6	3715.9	3864.4	4027.9	4179.0	4328.6
60°	3335.9	3419.7	3503.9	3590.5	3686.6	3814.4	3970.9	4153.7	4365.2	4571.8	4767.4
62.5°	3566.3	3676.2	3780.7	3892.7	4008.6	4158.7	4343.4	4583.1	4825.9	5083.9	5284.5
65°	3878.3	4032.9	4169.6	4314.7	4464.8	4665.4	4886.3	5173.1	5520.8	5785.3	6107.2
67.5°	4033.3	4236.9	4412.8	4574.2	4760.0	4962.6	5225.1	5564.4	5935.4	6318.7	6677.8
69°	3851.1	4061.1	4255.7	4436.5	4624.3	4820.9	5095.3	5443.5	5835.8	6250.4	6601.1
70°	3614.8	3824.8	4032.4	4238.4	4409.8	4601.5	4876.9	5236.0	5627.8	6058.7	6406.4
72.5°	2769.3	3021.9	3209.6	3402.8	3601.4	3763.9	4081.9	4384.5	4792.7	5230.0	5612.9
75°	1771.7	2004.0	2209.1	2373.5	2567.7	2762.4	2997.2	3333.5	3589.1	3948.2	4258.7
77.5°	910.4	979.2	1176.9	1235.8	1370.5	1476.5	1605.8	1690.0	1898.0	1942.1	2125.4
80°	431.4	388.8	366.0	345.2	351.2	348.7	338.3	324.4	341.8	334.3	331.4
82.5°	375.9	335.3	267.5	227.3	196.6	166.9	143.6	131.8	133.2	137.2	138.7
85°	263.5	247.7	193.2	146.6	114.4	88.7	71.3	68.4	70.3	75.8	73.8
87.5°	76.3	79.7	70.3	49.0	34.2	24.8	19.3	21.8	20.8	20.3	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1474.6	1474.1	1472.6	1471.1	1471.1	1470.1	1471.1	1471.6	1471.1	1471.1	1470.1
5°	1491.4	1491.9	1493.4	1490.4	1489.9	1490.4	1488.4	1487.9	1486.4	1487.9	1485.9
7.5°	1523.6	1525.1	1525.1	1523.1	1522.6	1524.1	1521.1	1520.1	1518.6	1518.1	1517.6
10°	1571.6	1573.1	1570.6	1569.2	1567.7	1569.7	1567.2	1567.2	1565.7	1564.2	1563.7
12.5°	1625.1	1624.1	1623.1	1624.1	1622.7	1622.7	1621.2	1620.2	1619.7	1619.2	1618.2
15°	1666.7	1670.2	1670.2	1671.2	1670.2	1670.2	1668.2	1668.7	1667.7	1667.2	1667.7
17.5°	1693.5	1694.5	1696.9	1698.4	1698.4	1698.9	1697.9	1698.9	1697.9	1697.9	1699.9
20°	1696.9	1697.9	1700.4	1702.9	1704.4	1705.4	1705.4	1706.9	1707.8	1708.8	1711.3
22.5°	1683.1	1684.6	1687.5	1692.0	1694.5	1695.5	1697.4	1699.9	1702.4	1704.4	1707.8
25°	1668.7	1669.2	1672.2	1676.6	1679.6	1682.1	1685.6	1688.5	1692.0	1696.0	1699.9
27.5°	1660.8	1660.3	1662.8	1667.2	1669.7	1673.2	1676.1	1680.6	1684.6	1689.5	1693.0
30°	1667.7	1663.8	1664.3	1666.2	1668.2	1670.7	1674.2	1678.1	1682.6	1687.0	1691.0
32.5°	1698.4	1689.5	1683.6	1682.1	1682.6	1683.1	1685.1	1687.5	1691.0	1694.5	1696.0
35°	1764.8	1749.5	1741.5	1735.1	1729.6	1725.2	1726.2	1725.7	1725.7	1728.6	1725.2
37.5°	1891.1	1871.8	1863.4	1852.0	1845.5	1829.2	1824.7	1823.7	1817.3	1817.3	1809.9
40°	2089.2	2077.8	2071.4	2061.0	2029.8	2033.8	2011.5	2012.0	1993.6	1995.6	1982.7
42.5°	2371.1	2372.6	2364.6	2357.7	2333.4	2322.5	2301.7	2272.0	2248.7	2248.2	2222.5
45°	2697.0	2714.8	2689.6	2698.5	2677.2	2648.0	2623.7	2585.5	2549.4	2538.0	2511.7
47.5°	3037.8	3067.0	3047.7	3051.1	3040.7	2999.1	2966.4	2919.4	2872.3	2840.6	2824.8
50°	3401.8	3421.1	3420.6	3411.2	3406.3	3365.7	3313.2	3277.5	3242.8	3200.2	3186.4
52.5°	3731.7	3776.8	3807.0	3800.1	3785.7	3761.4	3714.9	3684.2	3633.1	3627.2	3633.1
55°	4084.9	4143.3	4174.0	4211.2	4211.7	4207.2	4187.9	4176.5	4128.9	4134.4	4127.5
57.5°	4419.2	4504.9	4551.9	4631.2	4658.4	4694.6	4681.2	4696.1	4667.4	4686.2	4680.7
60°	4872.4	4991.3	5069.5	5178.0	5228.5	5319.2	5337.0	5347.9	5363.8	5402.4	5380.6
62.5°	5442.5	5616.9	5779.3	5926.9	5975.5	6111.7	6134.0	6219.2	6223.6	6249.9	6201.8
65°	6375.7	6588.2	6767.0	6943.8	7045.9	7205.3	7269.7	7435.2	7384.7	7405.9	7303.4
67.5°	6986.9	7234.1	7473.8	7641.2	7810.6	7973.6	8091.0	8198.0	8197.0	8176.2	8085.0
69°	6932.9	7208.3	7444.6	7669.0	7847.3	8014.7	8155.9	8225.2	8249.5	8219.3	8154.4
70°	6746.2	7029.0	7318.3	7503.0	7697.2	7881.0	8026.6	8102.4	8119.2	8097.9	8041.9
72.5°	5883.4	6154.8	6473.8	6641.7	6876.5	7009.2	7209.8	7307.9	7325.2	7298.0	7261.3
75°	4591.6	4640.6	4965.5	5072.5	5242.9	5396.0	5520.8	5489.1	5577.7	5560.4	5546.5
77.5°	2163.0	2032.3	2242.8	2340.9	2289.3	2152.1	2351.8	2207.6	2303.2	2427.5	2395.8
80°	356.6	355.6	365.0	385.9	361.1	383.4	382.9	372.0	373.0	399.7	385.9
82.5°	137.2	140.2	141.7	145.6	145.6	146.1	148.6	151.6	149.1	154.0	153.1
85°	74.3	79.3	74.8	71.3	73.8	75.3	77.3	79.7	77.3	84.7	80.7
87.5°	19.3	20.3	17.8	17.8	17.3	15.9	15.9	16.8	18.3	21.8	23.8
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: P157885

CATALOG NUMBER: VTS-F03-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1468.1	1468.6	1469.1	1467.6	1466.6	1466.6	1466.1	1465.1	1464.6	1464.6	1464.6
5°	1485.0	1485.9	1483.5	1483.0	1482.0	1481.0	1481.0	1480.0	1480.5	1480.5	1478.0
7.5°	1518.6	1517.1	1514.2	1512.2	1514.2	1510.7	1509.2	1510.2	1509.2	1509.7	1508.7
10°	1563.7	1563.7	1560.2	1562.2	1559.7	1555.8	1557.3	1555.8	1554.8	1551.3	1553.3
12.5°	1619.7	1618.2	1616.2	1611.8	1610.3	1609.8	1605.3	1605.8	1604.3	1603.3	1601.8
15°	1668.7	1668.2	1663.8	1661.3	1660.8	1658.8	1656.8	1655.8	1653.4	1652.9	1651.9
17.5°	1701.4	1699.9	1697.9	1695.5	1695.5	1692.5	1691.5	1689.0	1688.5	1687.0	1685.6
20°	1712.3	1712.8	1710.8	1708.8	1707.8	1705.9	1704.4	1702.4	1701.4	1699.4	1697.9
22.5°	1709.8	1709.8	1707.8	1707.4	1705.4	1702.4	1700.4	1697.9	1695.5	1693.0	1690.0
25°	1701.9	1701.4	1699.9	1697.4	1695.0	1690.5	1686.5	1682.6	1679.1	1676.1	1671.7
27.5°	1695.0	1694.0	1691.0	1687.5	1682.6	1677.6	1670.2	1664.8	1660.3	1656.3	1651.4
30°	1692.5	1689.0	1684.6	1679.1	1673.2	1665.7	1657.8	1650.9	1645.9	1642.0	1640.0
32.5°	1695.5	1691.0	1684.1	1677.1	1669.7	1660.8	1652.9	1646.9	1642.5	1641.5	1641.5
35°	1722.7	1715.3	1705.9	1696.0	1686.5	1679.1	1673.7	1673.2	1670.2	1673.7	1679.1
37.5°	1802.5	1796.0	1781.6	1768.8	1762.3	1758.9	1753.9	1754.9	1748.0	1758.9	1767.8
40°	1971.8	1963.9	1947.1	1936.7	1923.8	1911.4	1921.3	1918.4	1923.3	1921.3	1930.7
42.5°	2219.0	2211.1	2184.3	2180.4	2174.9	2170.0	2170.0	2166.0	2164.0	2171.0	2163.0
45°	2519.7	2503.8	2493.9	2505.8	2489.5	2494.4	2511.7	2488.5	2493.9	2461.7	2432.0
47.5°	2831.7	2830.2	2827.8	2842.1	2844.6	2852.0	2861.4	2837.7	2794.6	2770.3	2709.9
50°	3190.8	3206.2	3212.1	3226.0	3231.9	3237.4	3222.5	3187.4	3114.5	3050.1	2978.8
52.5°	3627.2	3600.4	3637.1	3650.5	3644.5	3622.7	3569.2	3526.1	3425.6	3333.0	3222.5
55°	4135.4	4141.8	4116.1	4105.7	4085.4	4024.9	3951.1	3854.0	3726.7	3605.9	3466.2
57.5°	4653.0	4650.5	4610.4	4553.9	4485.1	4412.3	4302.3	4163.1	4014.5	3852.1	3683.2
60°	5282.5	5280.1	5198.8	5102.2	5004.2	4886.8	4714.4	4547.0	4347.9	4134.4	3933.3
62.5°	6109.7	6003.2	5923.5	5779.3	5627.8	5474.2	5240.9	5018.5	4752.5	4483.1	4248.3
65°	7169.7	6994.3	6903.7	6694.7	6459.9	6220.2	5982.9	5690.7	5332.6	5006.6	4719.9
67.5°	7953.8	7793.3	7627.4	7418.8	7161.3	6893.8	6568.9	6200.8	5794.2	5428.7	5116.1
69°	8022.6	7872.5	7673.4	7464.4	7220.7	6930.0	6575.3	6163.2	5751.1	5381.1	5073.5
70°	7918.1	7758.6	7549.1	7331.7	7059.2	6784.8	6413.3	5983.9	5571.3	5200.3	4900.2
72.5°	7138.5	6983.0	6760.1	6500.0	6220.7	5985.9	5633.2	5185.5	4736.7	4393.9	4160.2
75°	5428.2	5394.0	5236.0	5084.4	4864.5	4602.5	4280.0	3978.9	3610.8	3248.3	3030.3
77.5°	2316.1	2394.8	2477.1	2489.0	2496.9	2416.1	2366.1	2290.3	2044.2	1932.2	1816.8
80°	428.0	382.4	408.1	411.1	428.0	436.9	469.6	556.7	566.6	587.9	614.2
82.5°	152.1	154.5	158.5	160.0	161.5	167.4	189.7	227.3	261.5	306.1	365.5
85°	86.2	87.7	91.1	94.1	96.1	102.0	114.4	136.7	170.4	221.4	300.2
87.5°	26.3	29.7	31.7	35.7	37.1	38.1	43.6	58.4	75.3	111.4	162.5
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: P157885

CATALOG NUMBER: VTS-F03-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6	1465.6
2.5°	1464.6	1464.2	1463.2	1462.2	1462.7	1461.7	1458.7	1457.7	1454.2	1451.8	1449.8
5°	1478.0	1477.5	1475.5	1476.0	1475.5	1470.6	1467.1	1461.2	1457.7	1452.3	1450.3
7.5°	1505.8	1505.3	1501.8	1503.3	1502.3	1494.9	1488.9	1479.5	1474.6	1467.6	1462.2
10°	1547.4	1547.4	1543.4	1543.9	1543.9	1534.0	1523.6	1507.7	1496.3	1485.4	1476.0
12.5°	1597.9	1595.9	1595.4	1592.9	1591.0	1580.1	1564.2	1542.9	1521.6	1503.8	1490.9
15°	1648.9	1645.9	1644.4	1641.5	1639.0	1629.1	1607.8	1581.5	1552.8	1524.1	1502.8
17.5°	1682.1	1680.1	1677.1	1676.1	1672.7	1662.8	1647.9	1621.7	1586.0	1545.9	1513.7
20°	1694.5	1691.0	1689.0	1687.0	1685.1	1678.1	1678.1	1661.3	1621.7	1565.2	1516.2
22.5°	1686.5	1684.6	1681.6	1680.1	1678.1	1679.1	1698.4	1696.0	1650.4	1569.7	1498.3
25°	1668.2	1665.7	1663.3	1663.3	1662.8	1673.2	1719.7	1726.2	1658.8	1547.9	1459.2
27.5°	1649.4	1645.9	1646.9	1647.4	1649.9	1672.2	1743.0	1734.1	1636.0	1495.4	1391.8
30°	1638.0	1638.0	1640.5	1644.4	1649.4	1688.5	1761.3	1716.3	1577.1	1416.1	1302.7
32.5°	1643.0	1647.9	1653.4	1663.3	1670.7	1724.7	1767.8	1670.2	1491.4	1318.0	1209.6
35°	1687.0	1693.0	1703.4	1718.7	1727.7	1776.7	1767.8	1602.8	1391.8	1233.8	1113.5
37.5°	1783.1	1789.1	1801.5	1813.3	1822.3	1842.1	1760.3	1517.1	1308.6	1146.7	1027.3
40°	1937.7	1946.1	1955.0	1953.0	1947.1	1927.8	1745.5	1437.4	1231.8	1070.4	942.6
42.5°	2155.1	2147.2	2146.2	2126.9	2107.1	2024.4	1734.6	1385.4	1166.0	990.1	858.4
45°	2406.2	2374.0	2340.9	2315.1	2284.9	2130.3	1731.6	1343.3	1093.2	901.0	766.7
47.5°	2658.9	2607.3	2542.9	2502.8	2453.8	2243.3	1740.5	1286.8	999.5	803.9	681.1
50°	2906.5	2822.3	2742.6	2694.5	2639.0	2373.1	1754.9	1191.7	887.6	715.7	602.8
52.5°	3135.8	3027.4	2945.6	2889.2	2821.3	2524.1	1742.0	1066.9	790.5	631.0	528.5
55°	3353.8	3233.9	3149.2	3089.8	3010.0	2675.7	1648.9	953.5	697.9	548.3	444.8
57.5°	3544.5	3429.6	3341.4	3260.7	3193.3	2807.4	1465.1	859.9	608.7	453.7	354.2
60°	3767.4	3638.1	3533.6	3447.4	3368.1	2875.3	1259.1	776.7	513.6	351.2	256.1
62.5°	4068.0	3919.4	3798.6	3700.0	3596.5	2890.2	1118.4	693.4	407.6	254.1	186.2
65°	4513.8	4330.5	4179.5	4043.8	3903.6	2828.7	1049.1	602.8	303.1	188.7	156.0
67.5°	4868.0	4677.8	4502.9	4328.6	4149.3	2714.8	1033.7	519.1	232.8	160.5	140.2
69°	4824.9	4643.6	4483.1	4294.4	4095.8	2571.7	1018.4	486.9	212.5	149.1	132.7
70°	4658.9	4487.1	4324.1	4170.6	3927.4	2412.2	977.8	469.1	204.6	143.6	127.3
72.5°	3936.8	3737.6	3579.6	3388.4	3132.4	1792.5	741.5	379.4	187.7	131.3	114.9
75°	2871.3	2706.4	2548.9	2337.4	2088.2	1037.2	461.6	216.9	137.7	118.9	104.0
77.5°	1676.6	1639.5	1487.4	1348.2	1101.6	528.0	265.0	129.8	107.0	108.0	91.6
80°	631.0	672.1	687.5	639.5	590.9	364.6	192.7	105.5	93.1	106.5	77.8
82.5°	460.1	533.9	542.9	520.1	483.9	339.8	154.0	84.7	75.8	114.4	66.9
85°	383.9	425.0	431.4	407.6	395.8	287.8	107.5	59.4	55.5	82.2	50.0
87.5°	194.2	204.6	210.0	190.2	191.2	134.2	43.1	25.3	30.2	35.2	27.7
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: P157885

CATALOG NUMBER: VTS-F03-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1465.6	1465.6
2.5°	1445.3	1448.3
5°	1447.3	1447.3
7.5°	1458.7	1458.7
10°	1471.1	1471.6
12.5°	1482.5	1482.0
15°	1491.4	1489.9
17.5°	1496.8	1495.4
20°	1491.4	1488.9
22.5°	1463.7	1456.7
25°	1413.1	1404.2
27.5°	1346.3	1340.3
30°	1259.1	1250.2
32.5°	1157.1	1152.6
35°	1059.5	1054.0
37.5°	970.3	968.8
40°	895.0	887.1
42.5°	806.9	803.4
45°	717.2	715.2
47.5°	633.0	631.0
50°	555.2	551.3
52.5°	479.0	472.5
55°	394.3	389.8
57.5°	302.6	298.7
60°	213.0	208.5
62.5°	151.6	146.6
65°	126.3	122.3
67.5°	114.4	110.0
69°	109.0	105.0
70°	105.5	102.5
72.5°	98.1	96.1
75°	89.7	88.2
77.5°	78.8	76.3
80°	65.9	63.4
82.5°	55.5	53.0
85°	37.1	33.7
87.5°	16.8	14.9
90°	0.0	0.0

(END OF REPORT)