

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: P144726

Luminaire Tested: **VPL-F03-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144726
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-F03-LED-E1-RW-7050
Description: VALET LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7633 lumens
Efficiency: N/A
Efficacy: 97.5 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

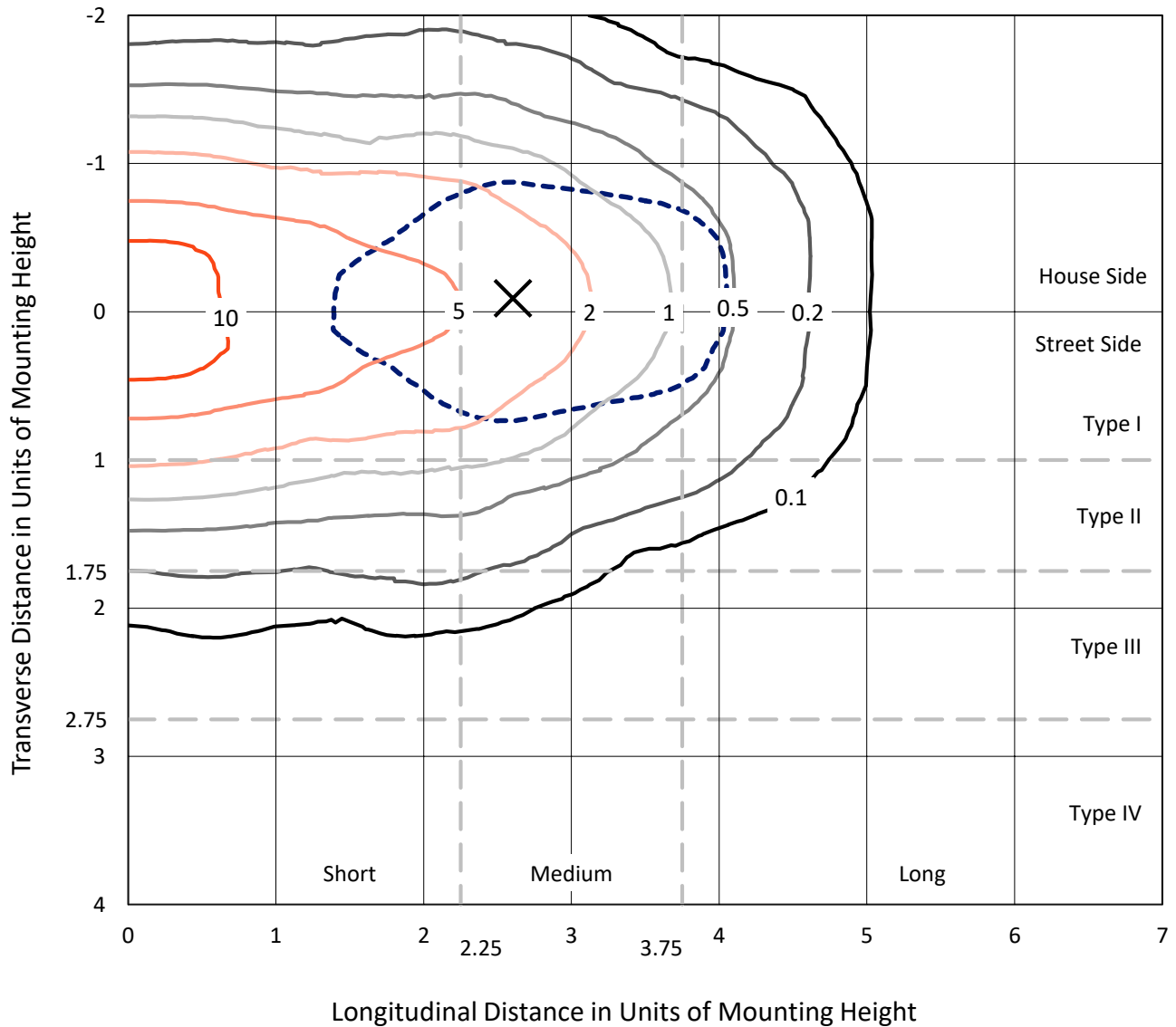
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

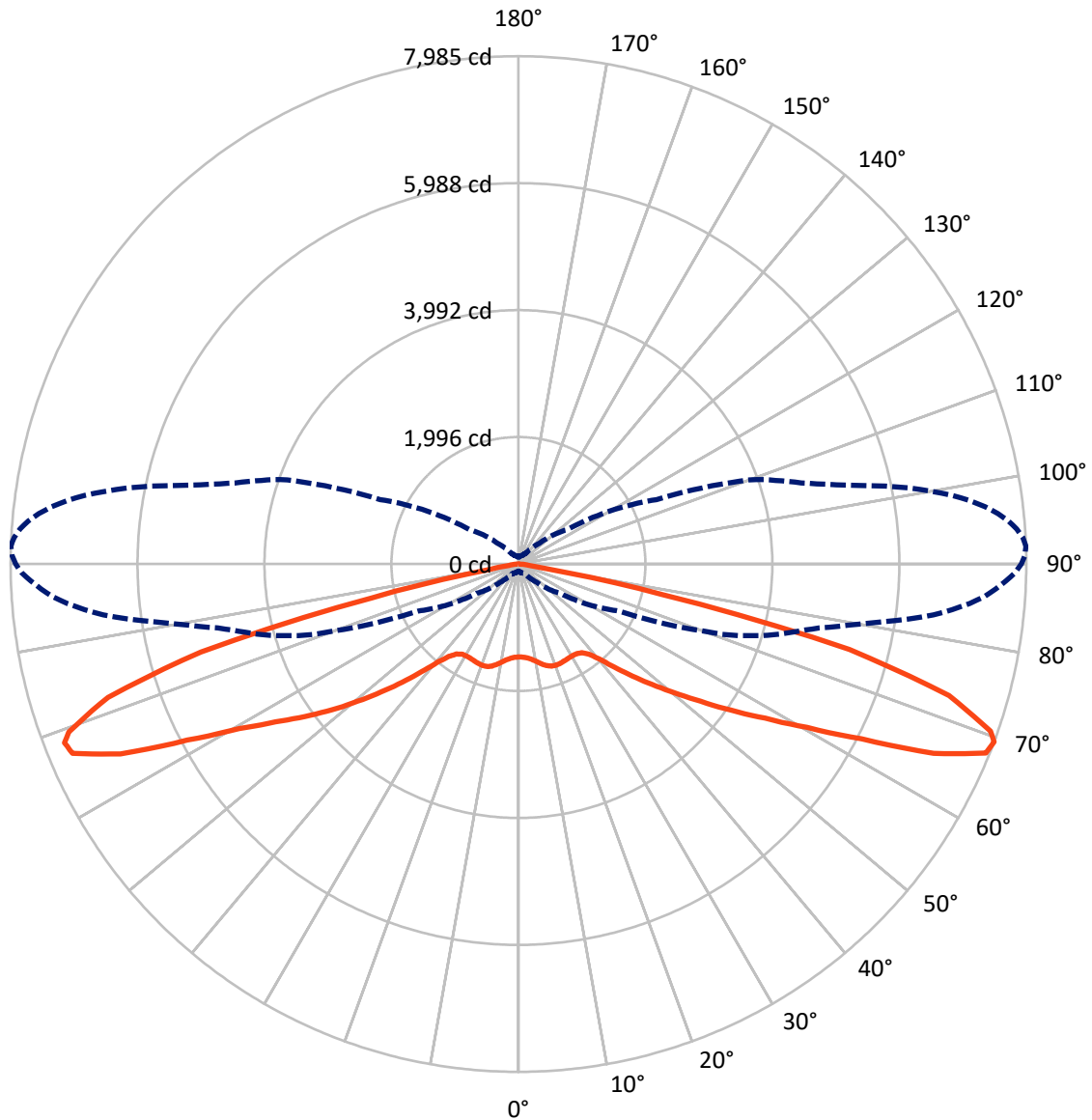
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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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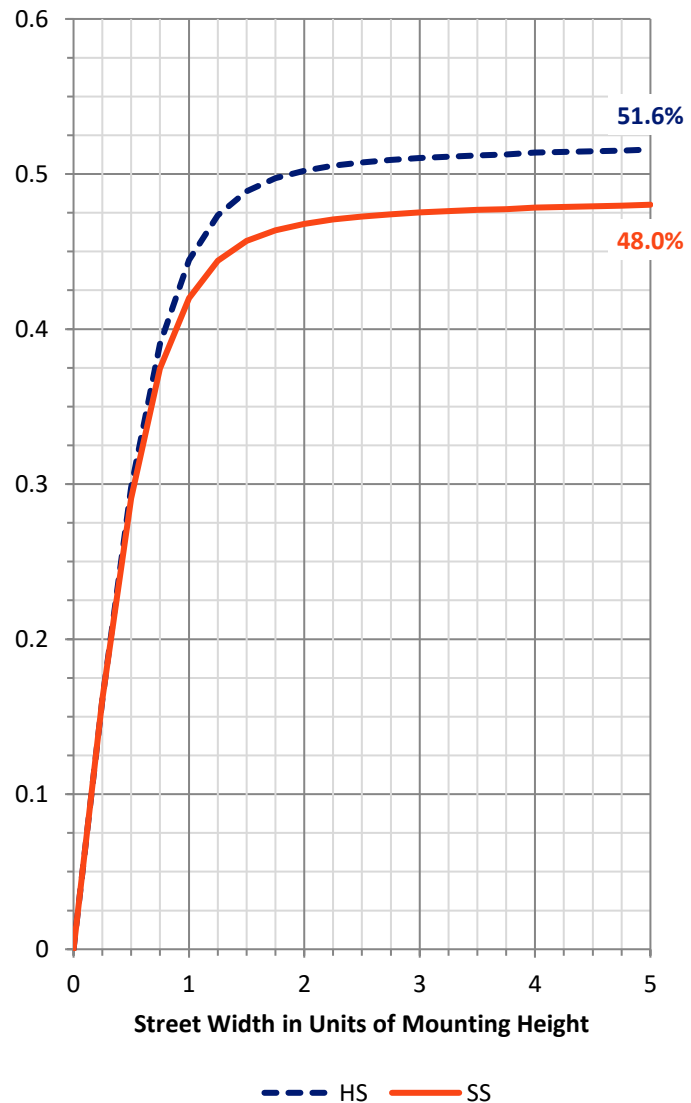
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3970.4	0.0	3970.4
	% Fixture	52.0	0.0	52.0
Street Side	Lumens	3662.6	0.0	3662.6
	% Fixture	48.0	0.0	48.0
Total	Lumens	7633.0	0.0	7633.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.9
10°-20°	450.4	5.9
20°-30°	729.5	9.6
30°-40°	908.7	11.9
40°-50°	1131.3	14.8
50°-60°	1388.1	18.2
60°-70°	1712.0	22.4
70°-80°	1064.3	13.9
80°-90°	105.7	1.4
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°	7633.0	100.0
0°-180°	7633.0	100.0



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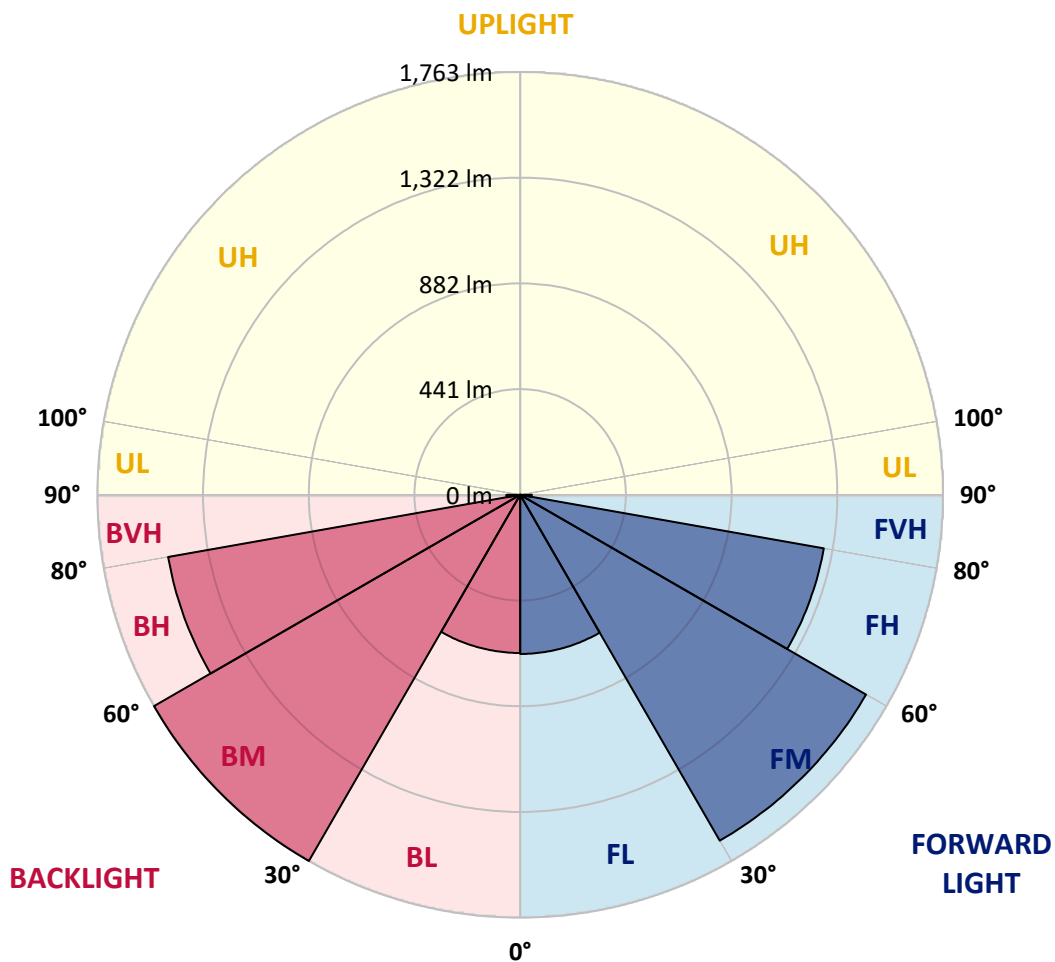
CATALOG NUMBER: VPL-F03-LED-E1-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.5	8.7			
FM (30°-60°)	1665.2	21.8			
FH (60°-80°)	1285.6	16.8			G1/1800
FVH (80°-90°)	48.3	0.6			G1/100
BL (0°-30°)	659.4	8.6	B2/1000		
BM (30°-60°)	1763.0	23.1	B2/2500		
BH (60°-80°)	1490.6	19.5	B3/2500		G3/2500
BVH (80°-90°)	57.4	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°	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7
2.5°	1487.1	1485.6	1489.2	1490.7	1487.6	1486.1	1482.0	1477.0	1477.0	1475.4	1473.9
5°	1508.5	1505.9	1509.5	1510.5	1509.0	1508.0	1504.4	1497.8	1498.8	1497.3	1494.2
7.5°	1525.8	1521.7	1526.3	1528.3	1532.4	1533.4	1531.9	1528.8	1528.3	1527.3	1527.8
10°	1539.5	1535.9	1543.0	1548.6	1555.7	1559.3	1565.4	1567.4	1567.4	1568.4	1570.5
12.5°	1546.6	1543.0	1554.2	1565.4	1579.6	1592.3	1602.0	1609.6	1613.2	1612.7	1612.2
15°	1540.0	1537.4	1553.2	1576.6	1604.0	1629.9	1643.7	1650.8	1653.8	1654.8	1654.8
17.5°	1517.1	1514.1	1535.4	1574.0	1621.8	1663.0	1686.4	1685.8	1682.8	1683.3	1681.8
20°	1471.4	1470.4	1498.3	1552.2	1627.4	1691.9	1719.4	1708.7	1697.0	1695.0	1693.0
22.5°	1405.3	1405.8	1438.8	1506.9	1612.7	1704.1	1741.2	1724.5	1703.1	1699.1	1696.0
25°	1323.0	1324.5	1359.6	1442.4	1566.4	1693.5	1749.9	1735.7	1711.3	1706.2	1701.1
27.5°	1234.5	1231.5	1274.2	1357.0	1494.2	1650.3	1744.8	1752.4	1729.1	1724.0	1717.4
30°	1136.9	1138.5	1183.7	1271.6	1410.9	1578.6	1727.5	1771.2	1756.5	1752.9	1745.3
32.5°	1045.5	1047.0	1087.6	1188.3	1330.1	1497.3	1699.1	1791.6	1793.6	1790.0	1786.0
35°	951.4	957.5	1001.8	1106.5	1253.3	1420.0	1662.5	1818.5	1840.4	1842.9	1843.9
37.5°	869.1	874.2	916.9	1028.2	1183.2	1362.1	1622.3	1855.1	1910.5	1918.1	1924.7
40°	783.7	788.3	833.0	948.9	1114.6	1314.8	1591.8	1904.4	1994.4	2015.2	2029.4
42.5°	708.5	711.0	751.7	862.0	1032.2	1262.0	1576.1	1964.9	2102.6	2129.5	2148.9
45°	630.7	630.7	669.4	772.0	940.8	1188.8	1570.0	2033.5	2219.0	2249.5	2284.6
47.5°	550.9	555.0	596.7	697.8	842.2	1084.1	1548.6	2112.8	2350.1	2385.2	2434.0
50°	472.7	479.8	523.0	619.0	755.3	980.4	1483.6	2203.8	2494.5	2542.2	2594.6
52.5°	392.4	400.0	441.2	536.2	671.4	877.7	1354.5	2300.3	2647.5	2706.9	2764.3
55°	313.1	313.6	354.8	447.8	583.5	796.9	1204.0	2366.4	2797.4	2870.6	2926.0
57.5°	225.7	230.2	268.9	355.3	497.1	719.7	1072.9	2360.8	2920.4	2998.1	3072.9
60°	165.2	169.2	203.8	265.8	392.9	638.4	977.4	2231.7	2994.6	3097.2	3195.3
62.5°	139.8	144.8	173.3	206.9	300.9	550.9	900.6	2033.0	3097.2	3234.0	3370.7
65°	126.6	131.1	161.1	178.4	235.8	462.5	852.8	1886.6	3224.3	3436.2	3625.8
67.5°	116.9	121.5	147.4	160.6	202.3	415.7	835.0	1850.5	3249.2	3533.3	3778.3
69°	111.8	116.4	139.3	152.5	194.7	402.5	805.1	1750.4	3061.7	3392.0	3637.5
70°	108.8	112.8	133.7	146.9	191.1	388.8	758.3	1609.1	2831.4	3178.6	3424.6
72.5°	100.1	103.2	120.5	132.1	174.8	306.5	562.1	1095.3	2067.0	2388.2	2641.9
75°	87.9	92.0	105.7	116.9	133.7	179.9	352.7	630.2	1236.1	1466.3	1706.2
77.5°	75.2	79.3	90.5	110.8	109.3	123.5	221.1	388.8	638.9	754.2	904.2
80°	64.5	67.6	78.3	105.7	90.5	98.6	166.2	302.9	416.3	452.3	481.8
82.5°	49.8	52.9	65.1	85.9	72.7	73.2	124.5	280.6	362.4	390.8	408.1
85°	32.0	32.5	47.8	57.9	51.8	42.7	77.3	205.3	270.4	291.2	293.3
87.5°	10.7	13.2	19.8	16.8	19.3	16.3	22.4	63.0	100.1	104.7	105.2
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°	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7
2.5°	1473.9	1473.4	1473.4	1473.9	1473.4	1472.9	1472.4	1470.4	1469.3	1468.3	1468.3
5°	1494.7	1494.7	1494.7	1493.2	1493.2	1493.7	1491.7	1490.7	1488.7	1488.7	1487.1
7.5°	1526.3	1527.3	1526.3	1525.2	1524.2	1524.2	1522.2	1523.2	1522.7	1521.7	1521.7
10°	1566.9	1568.4	1569.5	1569.0	1566.4	1565.9	1566.4	1566.9	1565.4	1564.4	1565.9
12.5°	1611.1	1613.2	1614.7	1614.7	1613.7	1616.2	1614.7	1614.2	1614.2	1613.7	1614.7
15°	1655.9	1655.4	1655.9	1655.9	1656.4	1655.4	1656.4	1657.4	1657.9	1656.9	1658.9
17.5°	1682.8	1681.3	1681.3	1681.8	1680.3	1680.3	1680.3	1682.3	1682.3	1683.3	1682.8
20°	1690.9	1690.4	1687.9	1687.4	1683.8	1684.8	1684.8	1685.8	1685.8	1685.8	1687.4
22.5°	1691.9	1687.4	1684.3	1681.3	1676.2	1675.7	1675.7	1675.2	1675.2	1675.7	1676.2
25°	1695.5	1688.4	1682.8	1677.2	1671.6	1667.6	1665.5	1663.0	1661.5	1661.5	1660.4
27.5°	1710.8	1702.1	1694.0	1686.4	1677.2	1671.1	1665.5	1660.9	1656.4	1654.3	1651.8
30°	1737.7	1729.1	1720.4	1711.8	1699.1	1690.9	1681.8	1673.1	1667.0	1662.5	1657.4
32.5°	1779.4	1773.8	1764.1	1754.5	1743.3	1731.1	1723.0	1709.7	1700.6	1695.0	1683.8
35°	1839.3	1837.3	1833.2	1825.6	1813.4	1804.3	1795.6	1783.4	1771.2	1758.5	1753.4
37.5°	1926.8	1930.8	1925.2	1924.7	1922.7	1914.6	1910.5	1895.8	1887.6	1877.5	1869.8
40°	2035.0	2047.7	2057.4	2063.0	2069.1	2075.7	2075.2	2070.1	2063.0	2063.5	2056.9
42.5°	2170.2	2192.6	2213.4	2225.1	2252.0	2273.4	2291.7	2303.4	2308.5	2319.6	2324.7
45°	2314.5	2350.1	2381.1	2409.6	2455.8	2491.4	2536.1	2570.2	2589.0	2622.5	2621.5
47.5°	2475.2	2512.8	2554.4	2606.8	2650.5	2710.0	2771.0	2840.1	2881.2	2926.5	2958.0
50°	2641.9	2692.2	2743.5	2792.3	2860.4	2939.2	3019.0	3098.8	3170.9	3240.6	3290.4
52.5°	2818.7	2875.7	2928.5	2994.1	3070.3	3169.4	3258.4	3357.0	3455.6	3554.2	3619.2
55°	2993.1	3053.5	3109.4	3186.7	3280.7	3380.8	3486.6	3609.6	3734.1	3863.2	3948.1
57.5°	3145.0	3200.4	3279.2	3349.3	3452.5	3563.8	3691.9	3839.3	3993.8	4153.4	4270.3
60°	3285.3	3359.5	3441.3	3523.7	3648.7	3775.8	3938.4	4113.2	4310.4	4491.9	4671.3
62.5°	3486.1	3582.1	3709.2	3807.3	3953.1	4096.5	4287.0	4513.2	4758.2	5001.6	5190.2
65°	3788.0	3932.3	4090.4	4215.4	4387.7	4582.3	4817.1	5101.8	5417.4	5718.3	5977.5
67.5°	3985.7	4177.3	4345.5	4517.3	4708.9	4930.5	5196.3	5526.7	5887.5	6236.7	6583.3
69°	3849.5	4070.0	4259.6	4428.3	4613.3	4834.9	5126.7	5435.2	5810.8	6205.7	6572.1
70°	3637.0	3870.3	4076.1	4239.3	4422.8	4643.3	4942.2	5241.0	5620.2	6037.4	6377.5
72.5°	2860.4	3113.5	3325.4	3476.4	3659.9	3872.3	4146.3	4480.2	4871.0	5241.5	5615.1
75°	1892.7	2109.2	2324.2	2462.4	2629.2	2849.2	3062.2	3353.9	3672.6	3989.2	4218.4
77.5°	1009.4	1131.4	1284.3	1364.6	1493.7	1596.9	1664.0	1898.8	1950.6	2055.3	2065.0
80°	478.3	455.9	446.2	422.4	441.7	436.6	406.6	422.9	415.2	392.4	386.3
82.5°	399.5	353.7	290.7	242.9	213.0	183.0	154.0	143.3	141.3	136.7	141.8
85°	294.3	277.5	226.7	171.8	136.7	102.2	88.4	80.3	77.8	75.7	78.3
87.5°	111.3	110.3	94.0	77.3	53.4	35.1	32.0	29.0	29.5	28.5	28.5
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°	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7
2.5°	1467.3	1468.3	1467.3	1466.8	1465.3	1464.8	1465.3	1464.8	1465.8	1465.8	1464.8
5°	1487.1	1487.1	1487.1	1486.1	1484.6	1484.6	1483.6	1482.0	1483.6	1483.1	1482.0
7.5°	1519.7	1518.1	1518.6	1517.6	1515.1	1516.6	1515.6	1514.1	1515.1	1513.6	1513.0
10°	1563.4	1562.9	1563.4	1561.3	1560.3	1560.8	1559.8	1558.3	1558.8	1560.3	1557.3
12.5°	1615.2	1613.7	1613.2	1612.7	1611.6	1611.1	1610.1	1612.2	1611.1	1608.1	1607.1
15°	1656.4	1658.9	1658.9	1657.9	1657.4	1657.9	1656.4	1657.9	1656.4	1656.4	1655.4
17.5°	1682.3	1684.8	1685.3	1685.3	1685.3	1685.3	1686.4	1686.9	1686.9	1685.8	1684.8
20°	1687.4	1689.9	1690.4	1691.9	1693.0	1693.5	1695.0	1696.0	1697.5	1697.5	1697.5
22.5°	1676.7	1679.8	1681.3	1682.8	1685.3	1687.9	1689.4	1692.5	1694.0	1695.5	1695.5
25°	1661.5	1663.5	1666.0	1669.6	1673.1	1676.2	1679.2	1681.8	1684.3	1686.9	1686.9
27.5°	1651.3	1653.3	1655.9	1658.9	1662.5	1666.0	1669.6	1673.1	1676.2	1679.2	1679.8
30°	1653.8	1654.3	1654.8	1656.9	1660.4	1663.5	1667.0	1670.1	1673.1	1675.7	1676.2
32.5°	1679.8	1675.7	1671.6	1672.1	1672.1	1674.2	1675.7	1679.2	1680.8	1681.8	1680.8
35°	1740.7	1726.5	1725.5	1721.4	1715.3	1714.8	1714.8	1713.3	1712.3	1711.8	1710.2
37.5°	1860.2	1840.9	1837.3	1824.1	1817.5	1814.9	1803.3	1804.8	1797.7	1794.6	1794.1
40°	2044.7	2037.6	2031.5	2016.7	1999.9	2003.0	1991.3	1979.1	1963.9	1967.4	1964.9
42.5°	2319.6	2315.6	2311.5	2298.3	2282.0	2270.3	2258.6	2242.9	2214.4	2220.5	2203.8
45°	2642.4	2650.0	2640.8	2634.2	2604.8	2583.9	2561.0	2533.6	2510.7	2501.6	2492.4
47.5°	2981.9	2989.5	2987.0	2971.7	2948.3	2918.9	2891.4	2864.0	2829.9	2805.0	2799.4
50°	3329.0	3327.0	3342.7	3331.5	3321.9	3273.6	3248.2	3215.2	3179.6	3163.8	3151.1
52.5°	3659.9	3715.8	3714.3	3712.2	3719.3	3673.1	3646.7	3605.0	3582.1	3573.5	3548.1
55°	4013.6	4067.0	4108.1	4122.9	4126.4	4124.4	4098.0	4081.7	4056.8	4067.5	4021.7
57.5°	4357.7	4443.6	4511.7	4548.8	4551.8	4604.2	4577.8	4588.4	4575.2	4571.7	4542.7
60°	4782.1	4883.2	4999.6	5081.4	5097.7	5197.8	5194.8	5228.8	5216.6	5208.0	5181.6
62.5°	5408.2	5526.7	5685.7	5810.3	5897.7	5954.1	6017.6	6028.8	6057.3	6042.5	6003.4
65°	6264.6	6406.4	6624.0	6794.7	6932.0	6967.5	7084.9	7122.0	7173.9	7115.4	7042.2
67.5°	6871.5	7101.7	7314.2	7495.6	7615.0	7742.1	7850.9	7912.4	7928.1	7872.7	7790.4
69°	6856.7	7121.0	7340.1	7513.9	7670.9	7811.2	7905.8	7965.2	7984.5	7941.3	7855.4
70°	6682.4	6972.1	7197.8	7386.8	7548.5	7703.0	7785.8	7848.3	7870.7	7841.7	7741.6
72.5°	5834.1	6155.4	6304.3	6551.8	6781.5	6909.1	6970.1	7032.6	7079.9	7061.1	6950.3
75°	4534.1	4716.5	4796.8	4972.7	5175.5	5245.1	5265.4	5305.1	5377.2	5373.7	5294.4
77.5°	2253.6	2227.1	2200.7	2219.0	2365.9	2192.6	2260.2	2254.6	2307.9	2337.9	2316.1
80°	406.1	417.3	426.9	400.0	438.6	421.3	392.4	417.3	412.7	422.9	424.9
82.5°	141.3	143.8	144.8	148.4	148.9	147.4	145.4	150.4	149.9	150.9	150.9
85°	76.2	76.7	74.7	74.7	72.7	72.2	71.7	73.2	76.2	74.7	76.2
87.5°	25.9	25.4	23.4	21.3	19.8	18.3	16.8	17.8	19.8	20.8	24.9
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7
2.5°	1464.8	1464.8	1463.7	1462.2	1460.7	1460.2	1460.2	1460.7	1460.2	1460.2	1459.2
5°	1479.5	1480.5	1480.5	1478.0	1477.0	1475.9	1474.9	1474.9	1474.4	1473.9	1473.4
7.5°	1510.5	1508.5	1511.0	1505.9	1506.4	1505.4	1503.9	1504.4	1500.8	1501.4	1501.4
10°	1554.2	1550.7	1552.7	1551.2	1549.1	1548.1	1545.6	1547.1	1543.0	1543.0	1542.5
12.5°	1606.1	1602.0	1602.5	1601.5	1600.5	1596.4	1595.4	1595.9	1592.8	1590.8	1589.8
15°	1651.3	1650.3	1650.3	1650.3	1647.2	1644.7	1641.6	1641.6	1638.6	1637.6	1635.5
17.5°	1682.8	1682.3	1681.3	1681.3	1678.7	1676.2	1675.7	1674.2	1671.6	1668.6	1667.6
20°	1696.0	1695.5	1694.5	1694.0	1691.9	1690.4	1686.9	1684.8	1683.3	1680.8	1678.2
22.5°	1695.0	1693.5	1693.5	1692.5	1688.9	1686.9	1683.3	1680.3	1677.2	1675.7	1671.6
25°	1686.9	1684.8	1684.8	1682.3	1678.2	1674.7	1670.1	1665.5	1661.5	1658.4	1653.8
27.5°	1678.7	1676.2	1675.2	1670.6	1665.5	1659.9	1654.3	1648.7	1643.7	1639.6	1637.1
30°	1674.7	1671.1	1668.1	1662.5	1654.3	1648.2	1640.6	1636.0	1632.0	1628.9	1627.4
32.5°	1677.2	1673.7	1669.1	1662.5	1653.8	1646.7	1640.1	1636.0	1634.0	1634.0	1635.5
35°	1703.6	1699.6	1694.0	1686.9	1678.7	1672.1	1668.1	1663.5	1669.1	1669.6	1675.2
37.5°	1787.0	1781.9	1770.7	1767.7	1752.4	1749.9	1749.4	1747.9	1751.9	1758.5	1766.7
40°	1955.2	1944.0	1929.3	1926.8	1917.6	1913.0	1912.0	1909.5	1905.9	1919.6	1923.7
42.5°	2187.5	2189.5	2170.7	2163.1	2165.1	2147.3	2161.6	2162.6	2153.9	2151.9	2148.4
45°	2474.1	2478.7	2477.2	2467.5	2472.6	2467.0	2453.3	2465.5	2449.2	2425.9	2406.5
47.5°	2791.8	2794.8	2795.3	2803.5	2815.2	2811.6	2795.9	2772.0	2750.6	2709.5	2666.8
50°	3149.1	3167.9	3166.4	3169.9	3180.1	3156.7	3135.9	3101.3	3051.5	2986.4	2914.3
52.5°	3577.0	3558.7	3575.0	3562.3	3561.3	3533.3	3474.9	3425.1	3330.5	3247.2	3137.9
55°	4051.2	4029.4	4015.6	3987.7	3956.7	3900.8	3818.4	3713.7	3601.9	3493.2	3363.6
57.5°	4533.0	4504.1	4477.6	4427.3	4358.2	4260.6	4156.9	4021.7	3872.8	3718.8	3577.0
60°	5163.3	5093.6	5036.2	4966.6	4853.7	4699.7	4569.1	4374.0	4185.9	3989.2	3803.7
62.5°	5900.2	5838.2	5681.7	5578.0	5445.3	5261.9	5087.5	4827.8	4608.3	4340.9	4130.5
65°	6956.4	6805.9	6671.7	6463.4	6268.2	6025.8	5784.3	5454.5	5147.5	4847.1	4586.4
67.5°	7654.2	7508.3	7343.1	7129.2	6881.1	6605.7	6278.4	5924.1	5541.9	5200.9	4916.3
69°	7735.0	7579.0	7396.0	7163.7	6899.9	6592.5	6260.6	5895.1	5490.1	5150.6	4858.8
70°	7621.6	7449.9	7278.1	7030.6	6761.2	6438.5	6098.4	5732.5	5307.6	4989.4	4687.5
72.5°	6881.6	6735.8	6495.9	6228.5	5991.7	5622.2	5272.5	4934.0	4525.4	4200.1	3947.5
75°	5272.0	5137.9	5042.8	4798.3	4581.3	4265.7	4058.3	3682.2	3462.2	3118.1	2874.1
77.5°	2416.7	2392.3	2454.3	2396.9	2301.8	2204.3	2165.6	1989.3	1837.8	1751.9	1624.9
80°	430.0	439.6	463.0	463.5	451.8	457.4	487.9	491.0	531.6	524.0	574.8
82.5°	153.0	152.5	155.5	155.5	158.1	163.1	182.5	213.0	251.1	292.2	345.1
85°	77.8	83.4	86.9	86.9	88.4	92.0	100.1	124.5	156.0	203.8	258.2
87.5°	25.9	30.0	33.5	36.1	35.6	36.6	39.1	46.3	67.1	92.0	125.0
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7	1461.7
2.5°	1458.7	1459.7	1458.2	1458.2	1457.6	1456.6	1454.1	1452.1	1449.5	1448.0	1444.4
5°	1472.9	1472.4	1471.4	1471.4	1469.8	1467.3	1462.2	1457.6	1453.1	1450.0	1446.5
7.5°	1499.3	1499.8	1499.3	1498.3	1495.8	1492.7	1483.6	1475.9	1470.9	1463.2	1459.2
10°	1539.0	1539.0	1537.4	1534.9	1535.9	1529.3	1514.6	1503.4	1492.7	1481.0	1473.4
12.5°	1586.2	1586.7	1583.7	1583.7	1583.7	1574.0	1553.2	1533.4	1517.1	1498.8	1486.1
15°	1633.0	1631.5	1628.9	1627.9	1626.9	1617.2	1593.3	1571.0	1545.6	1517.1	1496.8
17.5°	1664.0	1663.5	1659.4	1659.4	1656.9	1649.3	1632.0	1608.6	1573.5	1533.9	1502.9
20°	1675.2	1673.7	1671.6	1671.1	1668.6	1664.5	1660.9	1644.2	1603.5	1547.1	1499.8
22.5°	1668.6	1667.0	1664.5	1665.0	1664.0	1667.0	1682.3	1673.7	1624.9	1544.6	1477.0
25°	1651.3	1649.3	1649.3	1650.3	1650.8	1664.5	1701.6	1696.5	1626.4	1517.1	1426.1
27.5°	1635.5	1634.0	1634.5	1638.1	1641.1	1665.5	1719.4	1699.1	1594.4	1458.7	1359.0
30°	1627.9	1628.4	1632.0	1637.1	1642.6	1681.3	1731.6	1676.2	1530.8	1375.8	1273.2
32.5°	1638.1	1643.7	1650.3	1657.4	1666.5	1713.3	1734.6	1625.9	1442.4	1285.4	1180.7
35°	1681.3	1693.5	1701.6	1710.2	1719.9	1761.1	1731.1	1553.7	1350.9	1200.0	1084.1
37.5°	1774.8	1783.4	1789.0	1801.2	1812.9	1824.6	1718.9	1474.9	1273.7	1117.1	999.2
40°	1930.3	1924.2	1935.4	1933.9	1930.8	1901.3	1701.1	1405.3	1206.6	1038.9	919.9
42.5°	2133.6	2128.5	2113.3	2101.1	2084.8	1993.3	1687.9	1357.0	1138.0	960.6	836.6
45°	2369.9	2335.9	2302.4	2272.9	2241.4	2096.0	1686.4	1312.3	1057.2	872.1	746.6
47.5°	2590.0	2545.3	2494.5	2446.7	2407.6	2206.3	1696.5	1248.3	959.1	780.7	665.3
50°	2826.9	2748.1	2683.5	2618.0	2574.3	2330.3	1704.7	1151.7	855.9	696.8	587.5
52.5°	3040.3	2957.0	2875.7	2812.1	2748.1	2459.4	1675.2	1028.7	763.4	612.4	511.3
55°	3240.6	3145.5	3068.8	2997.6	2939.2	2600.2	1573.0	920.4	674.9	528.6	424.9
57.5°	3433.7	3335.1	3252.3	3179.1	3113.0	2711.5	1382.9	830.5	581.4	429.5	332.9
60°	3646.2	3533.3	3443.9	3354.9	3283.3	2763.3	1193.4	747.6	481.8	325.8	244.0
62.5°	3937.4	3808.8	3706.1	3593.3	3485.5	2750.1	1084.1	654.6	375.6	238.9	182.0
65°	4364.8	4203.2	4072.6	3925.7	3777.8	2686.6	1015.0	557.5	281.6	183.5	156.0
67.5°	4692.6	4494.4	4327.7	4157.4	3970.4	2564.1	977.4	484.9	225.2	158.6	141.3
69°	4629.1	4433.4	4251.5	4077.1	3865.7	2395.9	947.9	457.4	208.4	149.4	134.2
70°	4466.5	4267.7	4082.7	3907.9	3679.2	2218.0	906.7	437.6	202.3	144.3	129.1
72.5°	3719.8	3536.4	3337.1	3146.0	2908.2	1605.0	693.8	353.2	185.0	132.1	117.4
75°	2676.4	2518.9	2369.4	2162.6	1890.2	937.2	433.5	216.5	140.8	119.9	106.7
77.5°	1509.0	1448.5	1366.7	1196.4	1018.5	511.3	256.2	134.7	111.8	110.8	92.5
80°	589.1	641.4	663.8	624.1	560.1	368.5	189.6	105.7	94.5	113.3	79.8
82.5°	417.3	491.0	512.8	488.4	455.9	330.9	146.4	82.3	75.2	95.0	67.6
85°	332.9	375.6	378.1	361.4	350.7	265.3	97.1	51.3	53.4	67.1	48.8
87.5°	169.8	166.7	161.1	165.2	146.9	106.7	34.1	21.3	25.9	28.0	26.9
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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CATALOG NUMBER: VPL-F03-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1461.7	1461.7
2.5°	1442.4	1443.9
5°	1444.9	1445.4
7.5°	1457.1	1455.6
10°	1469.8	1467.8
12.5°	1481.0	1477.5
15°	1487.6	1483.1
17.5°	1488.7	1485.1
20°	1477.5	1472.4
22.5°	1442.9	1438.3
25°	1388.5	1381.4
27.5°	1315.8	1308.7
30°	1228.9	1219.8
32.5°	1133.4	1125.8
35°	1037.8	1032.8
37.5°	953.0	950.9
40°	871.6	869.1
42.5°	787.3	783.7
45°	700.9	696.8
47.5°	620.1	614.5
50°	541.3	537.7
52.5°	463.0	460.0
55°	374.1	370.5
57.5°	280.6	271.4
60°	198.7	193.6
62.5°	148.9	143.8
65°	129.1	124.5
67.5°	117.4	112.3
69°	111.3	107.2
70°	108.3	104.7
72.5°	99.6	97.6
75°	89.5	87.4
77.5°	78.3	75.2
80°	67.6	64.5
82.5°	53.4	51.3
85°	33.0	31.5
87.5°	17.8	14.7
90°	0.0	0.0

(END OF REPORT)