

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: INVUE

Report Number: P180291

Luminaire Tested: **ICM-F04-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180291
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F04-LED-E1-RW-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8098.9 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

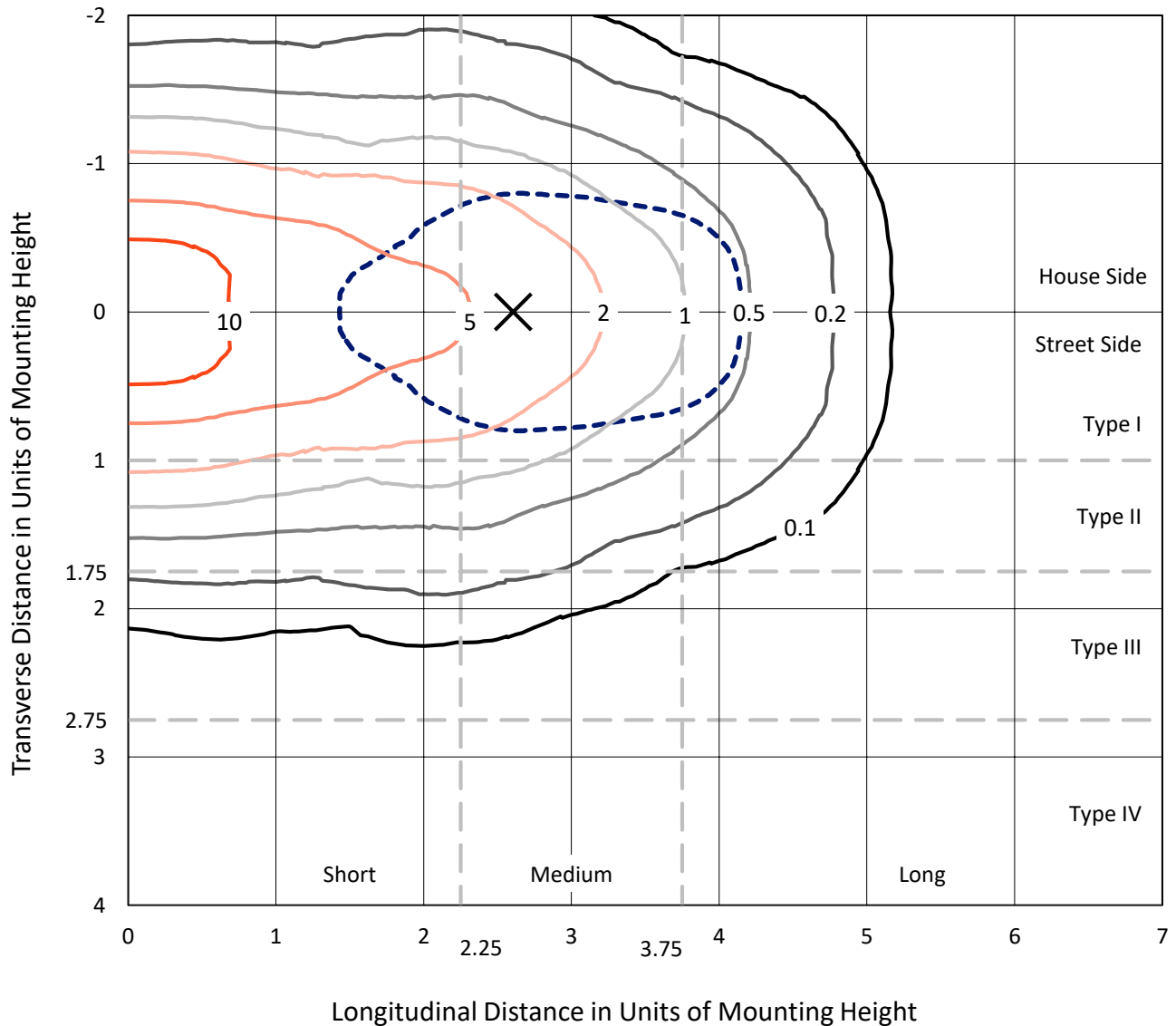
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180291
 CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

Iso-Footcandle Lines of Horizontal Illumination

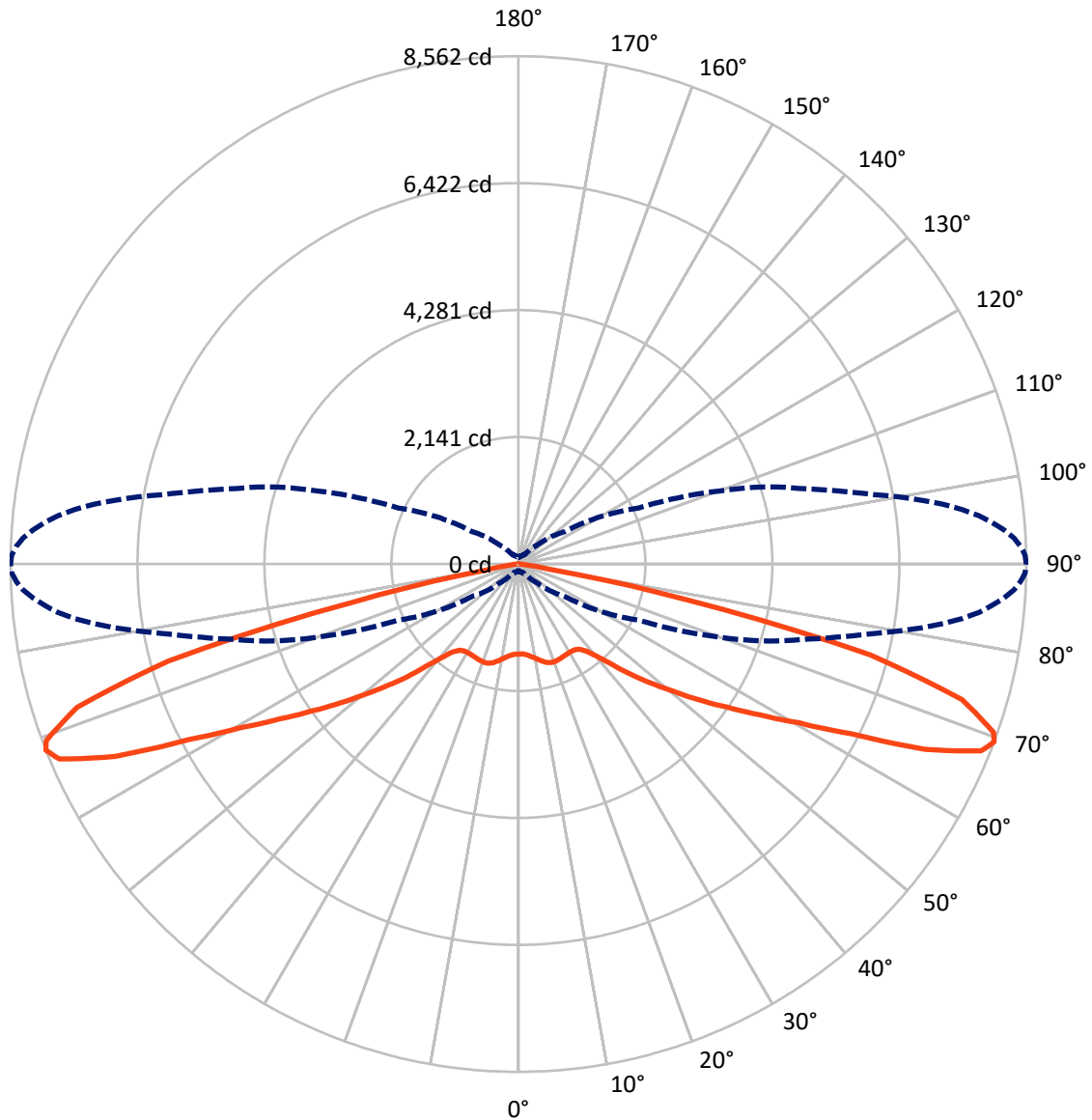
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P180291
CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P180291

CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4049.4	0.0	4049.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4049.4	0.0	4049.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8098.9	0.0	8098.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.8
10°-20°	469.6	5.8
20°-30°	760.7	9.4
30°-40°	948.1	11.7
40°-50°	1184.7	14.6
50°-60°	1462.9	18.1
60°-70°	1817.7	22.4
70°-80°	1206.7	14.9
80°-90°	99.6	1.2
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°	8098.9	100.0
0°-180°	8098.9	100.0

Coefficient of Utilization



REPORT NUMBER: P180291

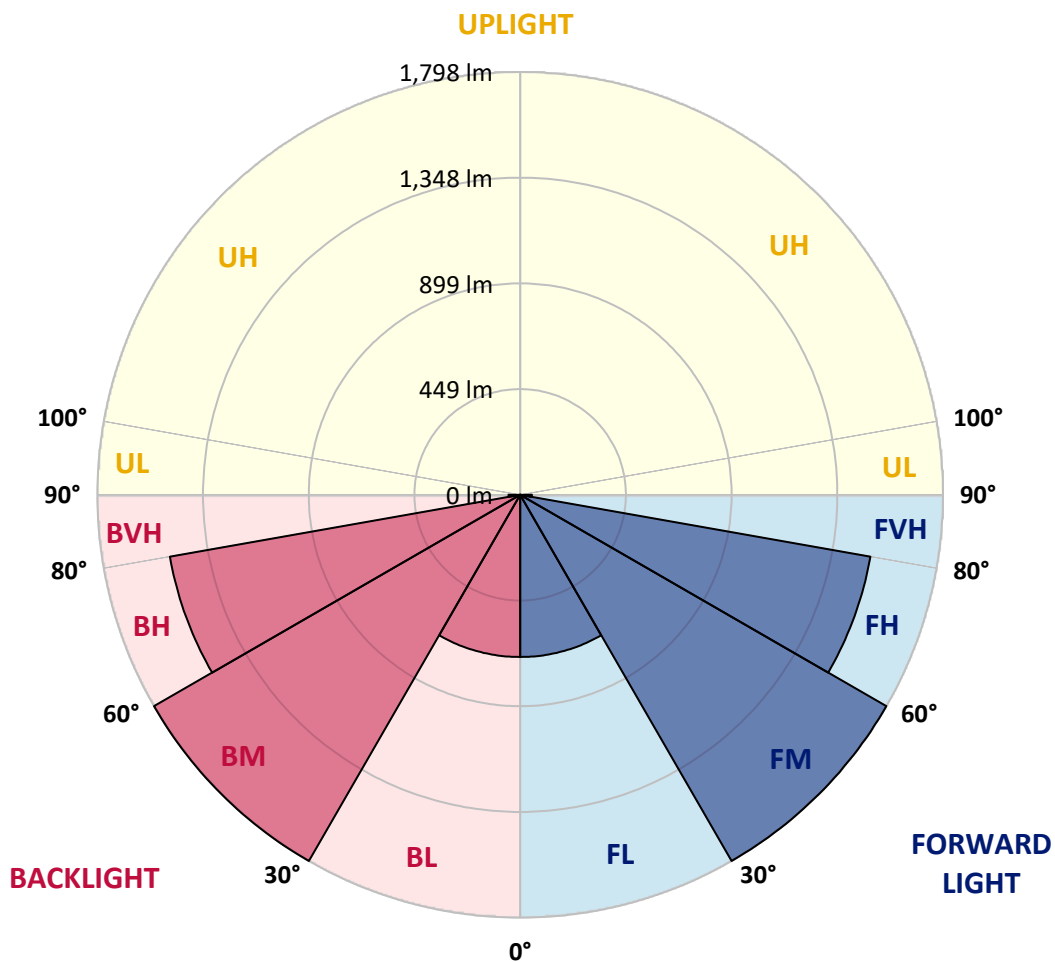
CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	689.6	8.5			
FM	(30°-60°)	1797.8	22.2			
FH	(60°-80°)	1512.2	18.7			G1/1800
FVH	(80°-90°)	49.8	0.6			G1/100
BL	(0°-30°)	689.6	8.5	B2/1000		
BM	(30°-60°)	1797.8	22.2	B2/2500		
BH	(60°-80°)	1512.2	18.7	B3/2500		G3/2500
BVH	(80°-90°)	49.8	0.6			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





REPORT NUMBER: P180291

CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5
2.5°	1524.4	1525.7	1524.8	1526.5	1526.1	1526.1	1525.2	1523.5	1522.4	1521.7	1521.9
5°	1539.1	1537.3	1539.9	1542.5	1541.7	1542.1	1541.7	1541.7	1540.8	1540.8	1540.7
7.5°	1554.6	1554.2	1555.9	1562.8	1563.7	1566.3	1569.3	1571.5	1571.9	1572.4	1572.0
10°	1568.0	1568.5	1572.8	1582.7	1587.9	1596.1	1604.3	1610.8	1613.2	1614.7	1614.5
12.5°	1578.8	1579.3	1585.7	1601.3	1613.9	1629.4	1647.1	1657.0	1661.4	1662.1	1662.9
15°	1579.7	1581.0	1592.2	1617.7	1642.8	1668.3	1689.5	1702.9	1706.3	1708.6	1708.8
17.5°	1568.5	1569.3	1588.3	1625.9	1667.8	1707.6	1729.7	1735.6	1736.9	1737.9	1737.4
20°	1539.2	1541.2	1568.0	1623.8	1687.7	1739.5	1762.5	1754.2	1750.2	1749.7	1749.2
22.5°	1491.5	1491.1	1526.1	1601.3	1691.5	1764.7	1784.9	1763.4	1750.5	1747.9	1746.2
25°	1414.7	1419.9	1460.8	1550.7	1669.6	1770.2	1800.9	1768.1	1749.8	1745.6	1740.7
27.5°	1331.3	1334.3	1377.9	1474.2	1618.2	1750.8	1808.8	1777.6	1757.0	1751.4	1745.6
30°	1234.1	1238.0	1284.6	1385.2	1535.6	1700.7	1806.5	1799.3	1775.3	1768.4	1761.0
32.5°	1139.0	1143.3	1185.2	1295.4	1448.8	1632.0	1793.6	1829.9	1805.2	1797.6	1790.1
35°	1040.5	1047.0	1098.0	1209.4	1364.9	1555.5	1773.7	1869.2	1855.6	1848.9	1842.2
37.5°	958.8	960.1	1009.4	1126.4	1287.2	1482.5	1747.4	1918.9	1928.8	1928.8	1929.7
40°	867.5	875.8	925.1	1048.7	1216.8	1420.7	1722.2	1986.2	2038.0	2047.4	2054.7
42.5°	786.0	786.8	837.0	964.4	1140.3	1371.0	1708.5	2067.5	2177.9	2198.2	2218.3
45°	699.9	703.4	748.7	871.9	1052.2	1312.2	1708.1	2161.3	2337.6	2371.5	2402.7
47.5°	618.8	620.1	668.0	782.5	951.1	1230.1	1704.9	2262.0	2502.0	2551.9	2592.8
50°	541.0	539.7	586.8	696.9	851.2	1122.6	1678.7	2376.0	2679.1	2735.9	2786.3
52.5°	452.0	458.0	506.8	612.3	760.5	1013.2	1601.7	2500.9	2863.5	2929.2	2992.4
55°	364.7	367.3	419.5	518.1	668.5	911.3	1467.8	2615.8	3043.2	3117.8	3188.0
57.5°	268.7	276.6	322.3	419.5	575.1	825.3	1297.6	2675.6	3195.5	3281.5	3365.0
60°	189.7	195.7	236.3	318.0	472.7	735.0	1151.1	2642.2	3318.0	3427.8	3528.1
62.5°	147.7	152.6	184.9	238.1	368.6	644.7	1046.1	2534.6	3454.2	3597.4	3734.2
65°	129.6	134.0	163.3	190.5	275.2	552.7	988.7	2420.9	3636.5	3847.5	4038.2
67.5°	117.0	122.2	147.8	166.8	224.3	482.2	973.5	2349.2	3725.9	4000.7	4257.8
69°	111.4	116.7	139.5	155.5	208.3	457.1	947.5	2236.5	3605.1	3898.9	4179.7
70°	108.1	112.4	133.5	150.0	203.2	439.8	904.3	2095.6	3439.6	3736.2	4029.7
72.5°	100.3	102.4	120.9	136.9	188.4	355.6	695.6	1556.4	2721.5	3010.6	3295.6
75°	88.6	91.2	108.5	124.0	146.9	220.8	440.3	962.7	1832.5	2047.9	2312.2
77.5°	76.5	78.7	93.8	118.4	114.0	137.8	263.2	535.8	1040.2	1165.5	1337.3
80°	61.4	64.0	77.4	117.6	94.1	107.2	189.2	374.6	510.7	548.1	589.3
82.5°	44.9	47.1	60.5	95.1	72.2	80.8	144.4	317.6	364.8	381.8	390.0
85°	22.9	23.3	38.4	57.9	45.8	41.9	81.2	217.3	247.6	251.8	258.2
87.5°	3.9	3.9	8.7	10.0	11.2	6.9	10.4	37.2	43.0	42.7	46.3
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: P180291

CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5
2.5°	1522.4	1522.1	1522.6	1522.7	1523.3	1521.6	1521.3	1520.9	1520.9	1521.8	1520.9
5°	1541.0	1540.9	1541.2	1542.0	1541.8	1540.8	1540.6	1540.8	1539.5	1539.1	1539.9
7.5°	1572.8	1572.4	1571.5	1572.8	1573.8	1574.0	1574.9	1574.1	1573.7	1573.2	1574.1
10°	1616.0	1615.8	1616.0	1617.5	1618.5	1618.6	1619.7	1618.6	1618.1	1619.0	1619.0
12.5°	1664.6	1663.6	1665.7	1666.6	1667.8	1670.4	1669.1	1670.9	1669.6	1671.7	1671.7
15°	1710.2	1710.9	1712.8	1713.5	1713.9	1716.0	1716.4	1717.6	1715.8	1716.3	1719.6
17.5°	1738.7	1738.2	1739.5	1740.3	1741.4	1742.5	1744.5	1745.7	1744.8	1744.8	1746.4
20°	1748.3	1747.0	1747.4	1747.9	1748.1	1749.2	1750.6	1750.9	1750.8	1751.3	1752.9
22.5°	1743.5	1741.3	1739.2	1739.4	1739.5	1739.3	1740.3	1740.8	1741.8	1742.6	1744.8
25°	1737.0	1732.0	1727.9	1727.5	1726.3	1726.4	1726.9	1727.1	1727.9	1729.2	1731.0
27.5°	1737.7	1731.1	1724.5	1722.2	1719.8	1718.3	1717.7	1716.7	1717.6	1718.9	1720.6
30°	1752.5	1742.2	1732.7	1729.7	1726.3	1723.5	1720.9	1718.0	1716.3	1717.6	1718.4
32.5°	1778.6	1768.4	1759.1	1754.3	1749.5	1744.4	1739.5	1736.6	1732.7	1731.4	1731.0
35°	1833.8	1825.8	1817.3	1812.0	1804.1	1800.0	1794.2	1785.9	1779.7	1779.4	1775.8
37.5°	1927.1	1923.2	1917.2	1911.5	1908.9	1898.2	1891.3	1886.9	1880.0	1884.3	1876.9
40°	2061.1	2067.5	2073.1	2069.9	2070.9	2068.1	2063.9	2067.9	2063.2	2062.0	2063.3
42.5°	2232.9	2255.6	2271.5	2276.5	2289.3	2294.3	2303.6	2318.2	2315.2	2331.5	2334.5
45°	2431.8	2464.5	2496.2	2519.7	2545.5	2574.7	2603.9	2627.1	2645.2	2644.3	2664.2
47.5°	2634.9	2683.0	2725.1	2760.8	2807.0	2849.9	2897.0	2944.7	2979.3	2992.2	2996.5
50°	2840.5	2896.0	2953.7	3006.0	3068.5	3137.1	3211.4	3285.6	3322.7	3353.0	3373.3
52.5°	3055.9	3119.6	3181.0	3254.7	3331.9	3422.4	3515.2	3620.9	3677.0	3734.2	3764.3
55°	3260.9	3331.9	3395.4	3494.0	3588.7	3696.8	3817.9	3951.5	4048.6	4115.6	4174.8
57.5°	3447.1	3522.7	3600.6	3711.8	3832.5	3958.9	4112.4	4274.6	4380.5	4497.1	4602.2
60°	3628.9	3724.0	3813.6	3958.9	4102.5	4259.6	4450.7	4656.2	4819.9	4978.5	5099.6
62.5°	3870.2	3992.2	4103.5	4286.4	4474.0	4668.1	4895.5	5138.4	5376.0	5591.2	5754.1
65°	4226.4	4405.8	4572.3	4804.0	5040.9	5296.3	5567.8	5878.1	6163.2	6448.0	6681.3
67.5°	4496.8	4724.0	4937.9	5218.0	5496.8	5792.8	6120.9	6487.4	6840.4	7161.3	7445.7
69°	4443.7	4684.8	4916.3	5202.3	5492.1	5794.5	6125.3	6515.0	6881.9	7230.6	7535.6
70°	4282.2	4533.3	4773.2	5057.0	5350.6	5653.8	6000.1	6382.7	6758.3	7129.9	7438.0
72.5°	3548.9	3801.0	4033.9	4324.3	4619.8	4938.3	5266.3	5639.1	6040.1	6437.2	6707.3
75°	2544.5	2767.3	2993.0	3238.6	3527.0	3789.5	4089.5	4445.2	4782.4	5090.4	5297.0
77.5°	1503.9	1637.3	1798.3	1913.9	2081.3	2225.8	2378.4	2576.1	2679.8	2878.6	2929.5
80°	612.7	609.1	633.0	609.4	614.6	595.3	574.6	570.8	538.4	579.0	548.7
82.5°	389.2	362.0	333.1	293.0	257.7	220.7	186.5	158.1	152.9	153.9	152.1
85°	256.5	244.7	218.6	183.8	149.9	120.3	96.2	76.1	75.2	73.9	73.5
87.5°	46.4	43.1	35.4	30.2	25.5	19.0	13.4	10.0	9.5	9.5	11.3
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: P180291

CATALOG NUMBER: ICM-F04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°
0°	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5	1517.5
2.5°	1520.9	1520.9	1520.5	1521.3	1520.9	1519.6	1518.3
5°	1540.8	1539.2	1540.4	1541.7	1539.5	1539.9	1539.1
7.5°	1574.1	1573.6	1574.1	1572.8	1571.9	1573.2	1574.5
10°	1620.8	1619.9	1619.5	1620.8	1619.9	1619.0	1619.5
12.5°	1673.0	1673.1	1672.6	1673.0	1672.6	1671.3	1670.4
15°	1719.3	1720.2	1720.2	1719.3	1718.9	1718.4	1718.8
17.5°	1747.7	1747.4	1747.4	1747.4	1746.9	1747.4	1748.2
20°	1755.2	1753.9	1753.9	1754.7	1753.9	1754.7	1755.2
22.5°	1745.1	1745.1	1745.2	1745.7	1746.4	1746.5	1747.4
25°	1732.7	1732.7	1732.7	1733.6	1733.6	1734.0	1734.4
27.5°	1722.7	1722.8	1722.8	1723.5	1723.5	1724.0	1724.8
30°	1719.7	1719.6	1719.3	1719.6	1720.2	1720.2	1720.6
32.5°	1731.4	1730.1	1729.7	1728.8	1727.9	1727.9	1727.5
35°	1772.5	1768.9	1769.4	1766.8	1767.6	1765.5	1763.7
37.5°	1872.2	1868.8	1864.8	1859.7	1856.7	1860.6	1860.6
40°	2058.9	2061.0	2051.5	2048.9	2043.4	2047.3	2052.4
42.5°	2336.3	2338.8	2340.7	2326.3	2326.0	2322.9	2314.2
45°	2665.1	2659.0	2661.6	2655.2	2652.6	2643.1	2654.7
47.5°	3012.9	3016.9	3001.3	2996.1	3005.2	2989.6	2991.7
50°	3385.0	3385.8	3374.2	3371.6	3379.7	3350.3	3364.2
52.5°	3785.9	3787.7	3796.7	3786.0	3790.3	3783.4	3797.1
55°	4212.4	4244.9	4247.8	4259.6	4260.4	4274.6	4260.4
57.5°	4660.5	4697.2	4731.7	4778.9	4789.2	4783.7	4792.7
60°	5200.1	5296.5	5348.4	5422.3	5433.9	5465.9	5438.3
62.5°	5907.0	6057.0	6170.3	6227.2	6261.8	6328.8	6306.7
65°	6895.7	7074.1	7246.2	7328.2	7418.9	7514.0	7531.3
67.5°	7705.3	7903.7	8082.7	8224.8	8335.4	8405.4	8411.0
69°	7806.6	8017.4	8205.8	8364.0	8471.5	8543.2	8562.2
70°	7715.4	7930.9	8130.7	8281.4	8401.5	8474.5	8500.1
72.5°	6990.7	7247.4	7407.3	7561.2	7730.5	7752.5	7822.5
75°	5533.7	5764.0	5920.9	5961.4	6050.1	6161.5	6121.8
77.5°	2886.3	2986.5	3019.8	2949.0	2945.5	3010.7	2881.1
80°	549.6	550.5	541.4	538.0	544.4	538.0	528.8
82.5°	155.2	152.9	151.6	155.2	154.7	154.2	157.3
85°	71.7	69.6	66.1	66.1	67.8	65.2	66.5
87.5°	10.0	8.3	8.3	8.3	7.8	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)