

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: P181658

Luminaire Tested: **ICM-E05-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181658
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-T4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12838.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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: 25 FT

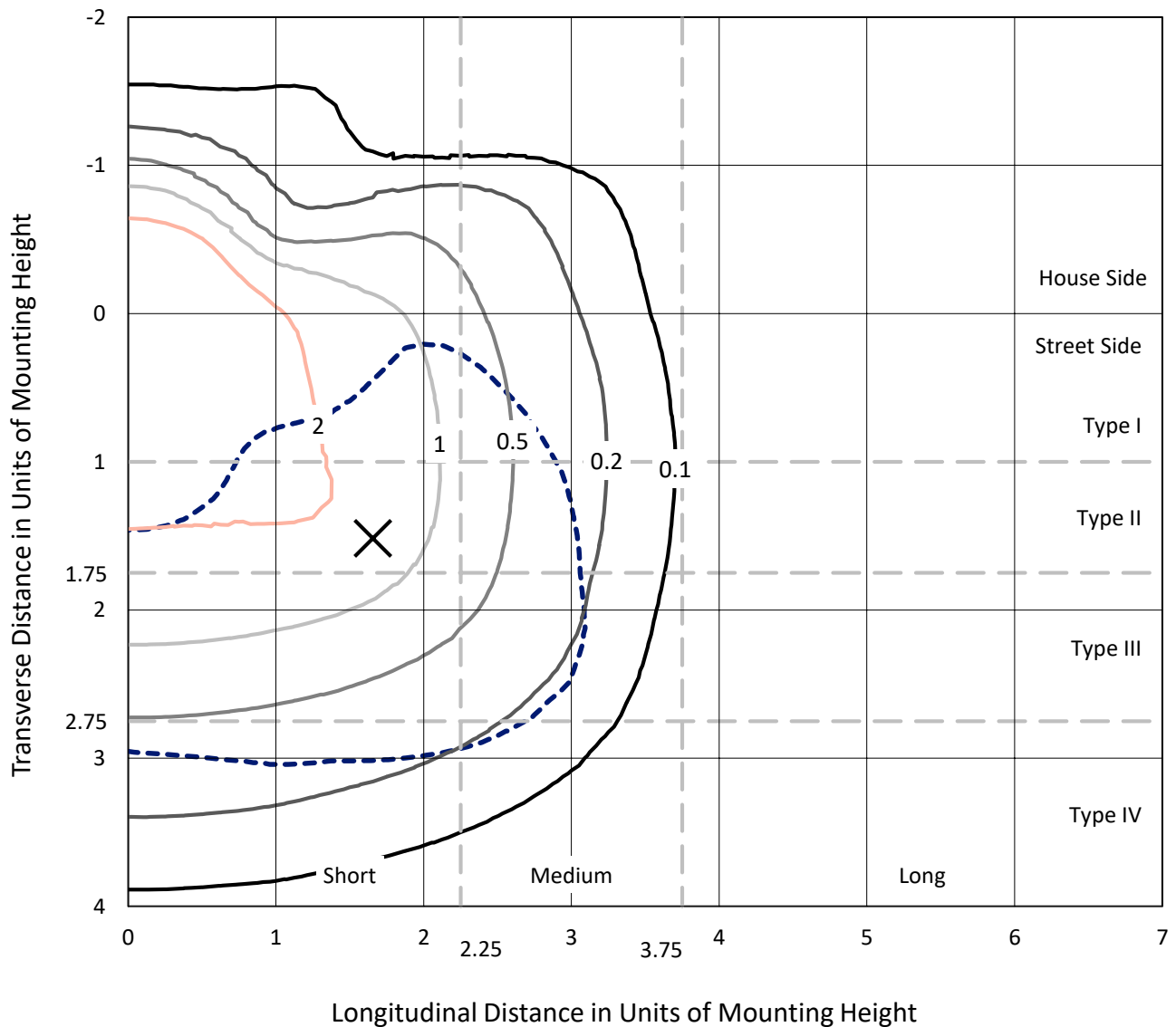


REPORT NUMBER: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

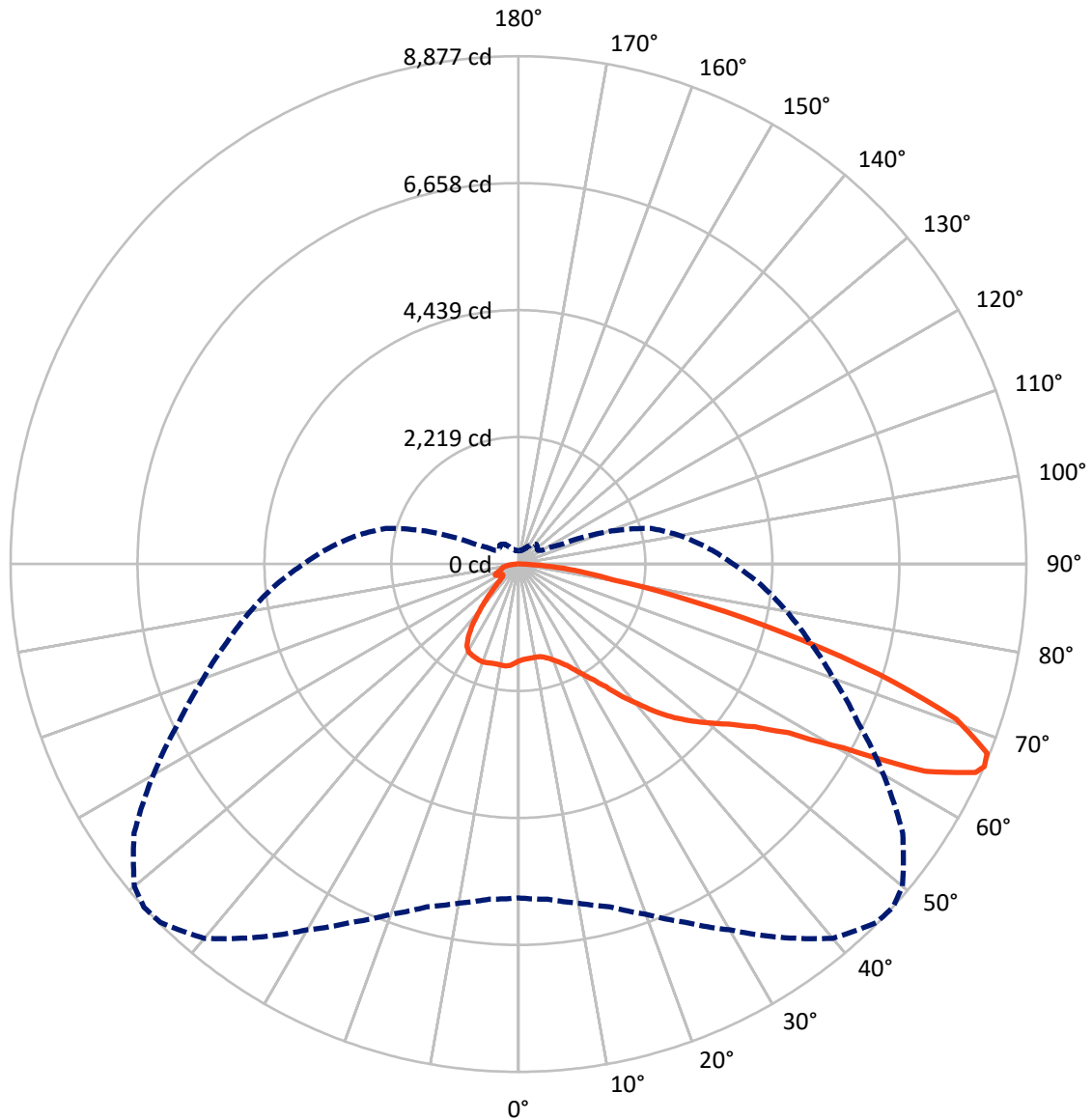


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2739.3	0.0	2739.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	10098.8	0.0	10098.8
	% Fixture	78.7	0.0	78.7
Total	Lumens	12838.1	0.0	12838.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	1.3
10°-20°	498.9	3.9
20°-30°	859.3	6.7
30°-40°	1300.1	10.1
40°-50°	1685.1	13.1
50°-60°	2323.3	18.1
60°-70°	3609.6	28.1
70°-80°	2099.0	16.3
80°-90°	298.5	2.3
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°	12838.1	100.0
0°-180°	12838.1	100.0



REPORT NUMBER: P181658

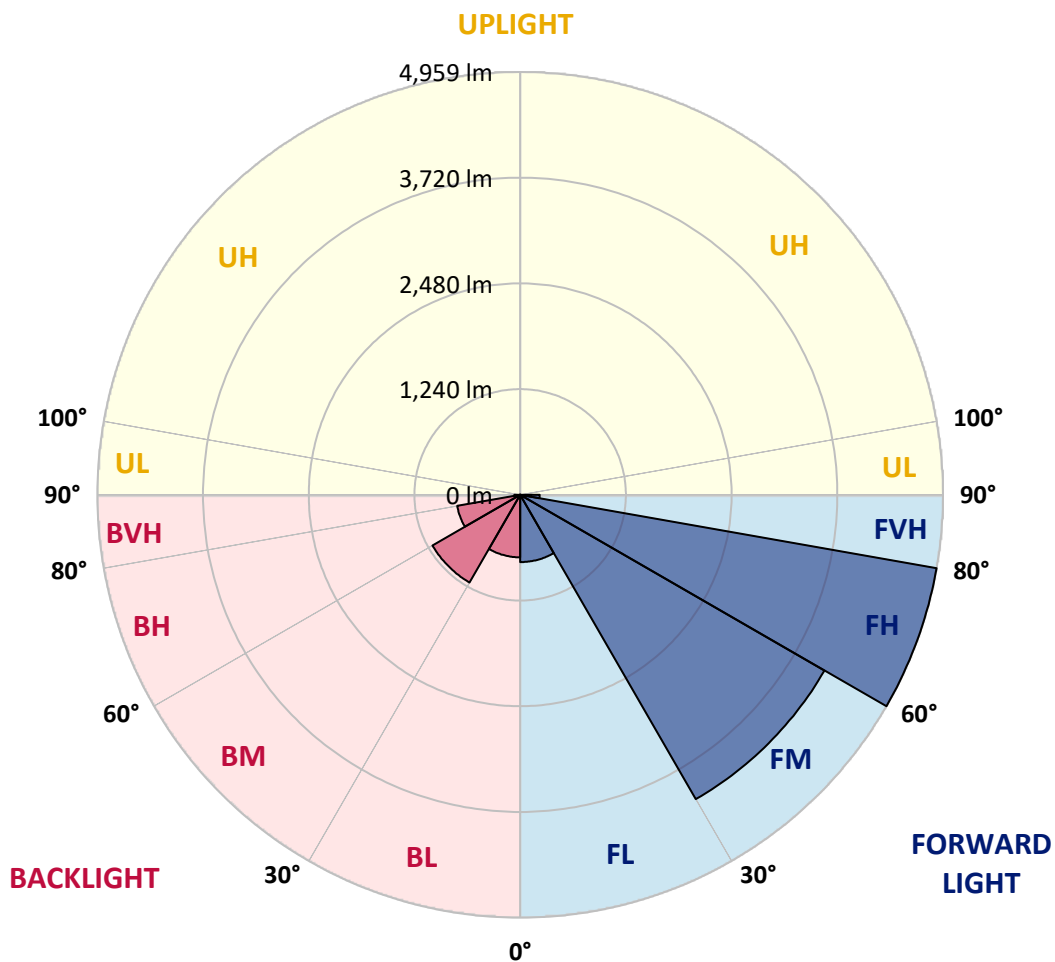
CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.3	6.1			
FM	(30°-60°)	4121.0	32.1			
FH	(60°-80°)	4959.4	38.6			G2/5000
FVH	(80°-90°)	229.1	1.8			G3/500
BL	(0°-30°)	733.2	5.7	B2/1000		
BM	(30°-60°)	1187.5	9.2	B2/2500		
BH	(60°-80°)	749.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	69.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1661.0	1666.7	1662.4	1663.8	1663.8	1665.3	1665.3	1666.7	1665.3	1669.5	1672.4
5°	1631.3	1634.1	1632.8	1635.5	1638.3	1644.0	1642.6	1649.7	1651.1	1655.4	1662.4
7.5°	1620.0	1617.1	1618.5	1622.8	1625.6	1628.5	1631.3	1636.9	1641.2	1651.1	1656.8
10°	1631.3	1629.9	1631.3	1634.1	1634.1	1635.5	1632.8	1638.3	1641.2	1649.7	1655.4
12.5°	1678.1	1678.1	1675.2	1675.2	1672.4	1669.5	1662.4	1658.2	1656.8	1658.2	1661.0
15°	1753.0	1750.2	1744.6	1740.3	1734.7	1724.8	1714.8	1706.3	1700.7	1692.2	1689.3
17.5°	1826.7	1822.4	1816.8	1811.2	1804.0	1794.2	1778.5	1768.7	1753.0	1743.2	1737.5
20°	1911.6	1903.2	1896.1	1889.0	1874.9	1872.0	1856.5	1839.5	1821.0	1798.4	1795.5
22.5°	2022.2	2008.0	1999.5	1995.3	1981.0	1976.8	1951.4	1927.3	1904.6	1874.9	1867.7
25°	2134.0	2119.8	2115.5	2110.0	2100.0	2094.3	2070.2	2043.4	2013.6	1972.6	1964.1
27.5°	2243.0	2244.5	2233.1	2237.4	2234.5	2224.7	2200.6	2173.7	2151.0	2102.8	2092.9
30°	2379.0	2370.4	2364.9	2373.3	2363.4	2364.9	2343.5	2329.4	2292.6	2264.3	2244.5
32.5°	2520.6	2519.2	2527.6	2533.3	2531.9	2529.0	2512.1	2497.9	2465.3	2424.3	2415.8
35°	2714.6	2723.1	2730.2	2755.6	2755.6	2774.1	2757.0	2740.1	2701.9	2652.3	2635.3
37.5°	2846.2	2849.1	2877.4	2911.4	2953.9	2993.5	3004.9	3009.1	2993.5	2956.8	2931.3
40°	2966.6	2972.3	3017.6	3070.0	3132.3	3210.2	3257.0	3278.2	3282.4	3265.4	3210.2
42.5°	3087.0	3095.5	3142.3	3218.7	3305.0	3404.2	3486.3	3538.7	3568.5	3568.5	3535.9
45°	3227.2	3238.5	3289.5	3373.0	3473.6	3598.2	3711.5	3812.0	3860.2	3863.0	3831.8
47.5°	3392.9	3402.8	3462.3	3547.2	3650.6	3776.6	3919.7	4034.4	4123.6	4129.2	4103.7
50°	3606.7	3620.9	3670.4	3746.9	3853.0	3980.5	4123.6	4283.6	4377.1	4399.7	4372.8
52.5°	3889.9	3892.8	3933.8	4004.6	4107.9	4229.8	4381.2	4555.5	4678.6	4697.1	4653.1
55°	4280.8	4276.5	4303.4	4379.8	4457.7	4552.6	4709.8	4905.2	5042.5	5070.9	5025.6
57.5°	4811.8	4807.5	4830.2	4848.6	4994.4	5086.4	5240.8	5427.8	5560.9	5643.0	5565.1
60°	5634.5	5630.3	5667.0	5774.6	5883.8	6018.3	6168.3	6392.0	6579.0	6603.1	6526.6
62.5°	6230.6	6251.9	6332.6	6458.6	6679.6	6942.9	7217.6	7512.1	7896.0	8017.7	7980.9
65°	6022.5	6065.0	6176.9	6368.0	6662.6	7026.5	7457.0	7990.8	8504.8	8792.3	8783.8
66°	5835.6	5882.3	6019.7	6203.8	6515.3	6913.2	7383.3	7965.4	8540.2	8857.4	8877.3
67.5°	5495.8	5548.1	5682.6	5900.7	6203.8	6627.1	7132.7	7765.6	8415.6	8785.2	8837.6
70°	4834.4	4893.9	4991.6	5171.5	5470.3	5848.3	6380.8	6947.2	7628.3	8051.7	8115.4
72.5°	4041.4	4093.8	4202.8	4350.2	4595.1	4833.0	5250.7	5668.5	6155.6	6638.5	6591.8
75°	2901.5	2924.1	2989.3	3149.3	3281.0	3494.8	3830.4	4173.1	4505.9	4726.8	4758.0
77.5°	1508.1	1567.5	1659.6	1836.7	1979.6	2172.2	2390.3	2648.0	2891.6	3094.1	3038.8
80°	987.0	1012.5	1094.6	1185.2	1290.1	1413.2	1559.1	1655.4	1686.5	1673.8	1686.5
82.5°	569.2	616.0	725.0	794.4	872.3	914.8	1030.9	1141.3	1203.6	1125.8	1097.4
85°	72.2	93.5	294.5	371.0	424.8	488.6	523.9	590.5	550.9	492.7	600.4
87.5°	15.5	14.1	19.8	42.5	43.9	36.8	69.4	73.7	45.3	22.7	28.3
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: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1675.2	1676.6	1679.5	1683.7	1686.5	1689.3	1692.2	1696.5	1699.3	1702.1	1707.7
5°	1668.1	1673.8	1679.5	1685.1	1692.2	1703.5	1710.6	1716.3	1722.0	1733.2	1737.5
7.5°	1663.8	1673.8	1682.2	1692.2	1703.5	1713.4	1726.2	1733.2	1741.8	1748.8	1757.3
10°	1661.0	1675.2	1683.7	1697.9	1710.6	1720.5	1734.7	1743.2	1753.0	1761.6	1765.8
12.5°	1666.7	1673.8	1682.2	1696.5	1712.0	1726.2	1741.8	1748.8	1757.3	1764.4	1765.8
15°	1690.8	1690.8	1692.2	1703.5	1719.1	1730.4	1743.2	1750.2	1754.5	1758.7	1758.7
17.5°	1734.7	1724.8	1717.7	1719.1	1729.0	1736.1	1743.2	1743.2	1740.3	1738.9	1736.1
20°	1785.7	1772.9	1758.7	1748.8	1746.0	1740.3	1736.1	1722.0	1710.6	1700.7	1693.6
22.5°	1859.3	1839.5	1819.6	1801.2	1784.2	1763.0	1738.9	1710.6	1683.7	1665.3	1654.0
25°	1949.9	1934.3	1910.2	1882.0	1860.7	1821.0	1789.9	1748.8	1714.8	1690.8	1671.0
27.5°	2078.8	2060.4	2037.7	2012.2	1981.0	1937.1	1898.9	1850.8	1809.7	1774.3	1748.8
30°	2238.8	2214.7	2197.7	2166.5	2145.3	2095.7	2057.5	1998.1	1918.7	1862.2	1826.7
32.5°	2403.1	2376.1	2362.0	2337.9	2313.9	2284.1	2226.1	2134.0	2032.0	1940.0	1879.1
35°	2622.5	2594.2	2568.8	2547.5	2512.1	2456.9	2405.9	2295.5	2155.3	2026.3	1924.4
37.5°	2898.6	2851.9	2788.2	2734.4	2672.1	2592.8	2514.9	2401.6	2241.6	2074.5	1938.6
40°	3193.2	3111.1	3020.5	2919.9	2812.3	2697.6	2608.4	2493.7	2313.9	2115.5	1928.7
42.5°	3500.5	3370.3	3244.2	3102.6	2952.5	2816.6	2700.4	2574.4	2367.6	2126.9	1889.0
45°	3805.0	3659.1	3467.9	3282.4	3092.7	2924.1	2793.9	2652.3	2417.2	2131.2	1836.7
47.5°	4057.0	3906.9	3688.9	3456.6	3231.5	3040.3	2887.4	2734.4	2483.7	2160.9	1823.9
50°	4323.2	4140.6	3898.4	3623.7	3368.8	3155.0	2992.1	2833.5	2577.2	2237.4	1864.9
52.5°	4613.5	4403.9	4120.7	3813.4	3534.4	3295.2	3118.2	2955.3	2696.2	2344.9	1942.8
55°	4967.6	4711.2	4403.9	4057.0	3758.3	3493.4	3298.0	3105.4	2837.8	2472.4	2040.6
57.5°	5508.5	5194.1	4848.6	4453.5	4122.2	3809.2	3575.6	3353.2	3057.2	2662.2	2173.7
60°	6486.9	6151.4	5702.5	5223.8	4834.4	4469.1	4126.4	3850.3	3486.3	3036.0	2468.2
62.5°	7888.9	7442.7	6843.8	6174.0	5664.2	5137.4	4750.9	4340.2	3888.5	3402.8	2815.1
65°	8667.7	8126.7	7325.3	6547.9	5892.2	5320.1	4828.8	4353.0	3851.7	3387.2	2895.8
66°	8764.0	8200.4	7367.8	6549.2	5861.1	5273.4	4756.5	4263.7	3751.1	3307.9	2861.9
67.5°	8724.3	8148.0	7289.8	6426.1	5726.5	5095.0	4561.1	4049.9	3538.7	3125.2	2748.6
70°	8074.4	7527.8	6685.2	5848.3	5184.2	4561.1	4051.4	3548.7	3079.9	2725.9	2448.4
72.5°	6705.1	6237.7	5505.6	4848.6	4327.5	3813.4	3381.5	2901.5	2505.0	2243.0	2078.8
75°	4840.1	4556.9	3889.9	3513.2	3055.8	2714.6	2295.5	2010.8	1726.2	1598.7	1570.4
77.5°	3057.2	2676.4	2252.9	1855.0	1525.1	1264.6	984.2	835.4	696.7	682.5	824.1
80°	1547.7	1393.4	1073.4	855.3	719.4	582.0	460.2	348.4	243.5	293.1	351.2
82.5°	1013.9	845.4	662.7	545.2	474.4	393.7	305.9	212.4	155.7	175.6	240.7
85°	548.0	467.3	376.7	297.4	240.7	215.3	144.5	102.0	100.6	107.6	137.4
87.5°	39.6	39.6	31.2	28.3	34.0	28.3	25.5	25.5	24.1	25.5	34.0
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: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1710.6	1714.8	1716.3	1723.4	1727.5	1730.4	1733.2	1733.2	1734.7	1738.9	1740.3
5°	1743.2	1750.2	1758.7	1764.4	1767.3	1775.7	1778.5	1778.5	1781.4	1787.1	1791.3
7.5°	1763.0	1772.9	1781.4	1784.2	1789.9	1792.8	1796.9	1799.8	1799.8	1805.5	1808.3
10°	1770.1	1775.7	1784.2	1784.2	1789.9	1789.9	1794.2	1795.5	1795.5	1801.2	1805.5
12.5°	1770.1	1772.9	1780.0	1780.0	1784.2	1785.7	1791.3	1795.5	1796.9	1804.0	1809.7
15°	1761.6	1764.4	1770.1	1771.5	1781.4	1787.1	1799.8	1808.3	1808.3	1815.4	1818.2
17.5°	1737.5	1744.6	1755.9	1767.3	1785.7	1798.4	1814.0	1821.0	1815.4	1811.2	1806.9
20°	1697.9	1710.6	1737.5	1765.8	1798.4	1815.4	1823.9	1816.8	1796.9	1777.1	1764.4
22.5°	1658.2	1683.7	1729.0	1771.5	1808.3	1819.6	1815.4	1789.9	1757.3	1733.2	1716.3
25°	1676.6	1706.3	1750.2	1788.5	1812.6	1809.7	1792.8	1757.3	1722.0	1690.8	1662.4
27.5°	1753.0	1785.7	1809.7	1822.4	1819.6	1799.8	1772.9	1733.2	1690.8	1649.7	1610.1
30°	1825.3	1842.2	1847.9	1838.1	1815.4	1782.8	1748.8	1703.5	1646.9	1595.9	1550.6
32.5°	1857.9	1840.8	1814.0	1787.1	1750.2	1722.0	1675.2	1625.6	1554.8	1494.0	1448.7
35°	1857.9	1789.9	1722.0	1665.3	1610.1	1574.6	1520.8	1454.3	1389.1	1338.1	1302.8
37.5°	1816.8	1686.5	1574.6	1482.6	1413.2	1375.0	1294.2	1234.8	1179.5	1162.6	1139.9
40°	1741.8	1549.1	1387.7	1267.4	1179.5	1122.9	1042.2	1001.1	979.9	971.4	967.2
42.5°	1641.2	1396.2	1181.0	1032.3	937.4	873.7	819.9	794.4	793.0	791.5	791.5
45°	1533.6	1232.0	979.9	802.9	719.4	662.7	637.2	627.4	635.8	634.4	635.8
47.5°	1467.1	1107.4	795.8	607.4	543.7	507.0	494.2	498.4	505.5	502.7	502.7
50°	1458.5	1043.6	672.7	472.9	424.8	406.4	403.5	403.5	407.8	405.0	403.5
52.5°	1489.7	1033.7	608.9	406.4	368.2	352.6	349.8	348.4	347.0	338.4	331.4
55°	1543.5	1056.4	590.5	389.4	349.8	332.7	328.6	325.7	320.0	308.7	296.0
57.5°	1651.1	1127.2	607.4	398.0	355.4	341.3	337.0	337.0	325.7	307.3	288.8
60°	1910.2	1307.0	676.8	430.5	382.3	368.2	371.0	369.6	352.6	325.7	297.4
62.5°	2244.5	1542.1	767.5	475.8	416.3	413.5	427.6	424.8	396.5	355.4	314.3
65°	2398.8	1652.6	793.0	485.7	423.4	436.2	464.5	461.7	426.2	369.6	317.2
66°	2401.6	1652.6	781.7	477.2	413.5	429.0	457.4	456.0	420.6	363.9	311.5
67.5°	2343.5	1607.3	749.1	460.2	393.7	405.0	430.5	429.0	396.5	349.8	300.2
70°	2125.5	1438.7	665.6	430.5	366.8	361.1	369.6	363.9	342.7	310.1	276.1
72.5°	1821.0	1207.9	580.6	407.8	348.4	325.7	320.0	315.8	298.8	280.4	259.2
75°	1434.4	955.8	509.8	390.8	331.4	301.6	291.7	286.0	274.7	262.0	244.9
77.5°	885.0	683.9	444.7	368.2	318.6	288.8	281.8	273.3	256.3	240.7	228.0
80°	395.1	423.4	365.3	321.5	284.7	257.7	246.4	233.7	216.7	206.7	199.6
82.5°	263.4	273.3	264.8	240.7	215.3	194.0	177.0	177.0	174.1	165.7	162.9
85°	168.5	170.0	164.3	148.7	138.8	126.0	119.0	120.4	126.0	124.7	123.2
87.5°	38.2	38.2	45.3	42.5	49.6	52.4	56.7	60.9	69.4	69.4	73.7
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: P181658

CATALOG NUMBER: ICM-E05-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1741.8	1744.6	1747.5	1743.2	1744.6
5°	1791.3	1789.9	1796.9	1792.8	1795.5
7.5°	1806.9	1808.3	1814.0	1814.0	1815.4
10°	1808.3	1811.2	1818.2	1822.4	1825.3
12.5°	1815.4	1821.0	1832.4	1835.2	1835.2
15°	1821.0	1823.9	1831.0	1833.8	1836.7
17.5°	1801.2	1795.5	1798.4	1799.8	1798.4
20°	1751.6	1746.0	1744.6	1738.9	1741.8
22.5°	1697.9	1682.2	1672.4	1661.0	1661.0
25°	1632.8	1608.7	1588.8	1569.0	1573.2
27.5°	1571.8	1540.7	1520.8	1508.1	1505.3
30°	1512.4	1479.8	1461.4	1445.8	1445.8
32.5°	1413.2	1390.6	1366.5	1356.6	1355.2
35°	1275.8	1261.7	1241.9	1237.6	1230.5
37.5°	1121.5	1117.3	1100.3	1098.9	1091.8
40°	960.1	962.9	957.2	954.4	950.1
42.5°	798.6	812.8	810.0	808.6	805.8
45°	644.3	654.2	655.6	659.9	667.0
47.5°	507.0	509.8	512.7	511.2	512.7
50°	396.5	389.4	388.0	383.7	388.0
52.5°	320.0	308.7	303.1	297.4	294.5
55°	281.8	270.4	264.8	262.0	259.2
57.5°	271.9	260.6	252.1	246.4	244.9
60°	274.7	257.7	246.4	239.4	237.9
62.5°	281.8	259.2	243.5	236.5	235.1
65°	280.4	256.3	242.1	233.7	232.2
66°	276.1	253.5	239.4	232.2	230.8
67.5°	269.0	249.2	236.5	230.8	228.0
70°	256.3	243.5	233.7	226.6	223.7
72.5°	244.9	235.1	226.6	219.4	218.0
75°	232.2	223.7	215.3	209.6	208.2
77.5°	216.7	208.2	202.5	198.2	196.8
80°	191.2	185.5	179.8	174.1	174.1
82.5°	158.6	154.3	148.7	144.5	143.0
85°	121.8	121.8	117.5	113.3	111.9
87.5°	72.2	70.8	70.8	66.5	66.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)