

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: P180286

Luminaire Tested: **ICM-E04-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180286
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-E04-LED-E1-RW-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9810.6 lumens
Efficiency: N/A
Efficacy: 100.9 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

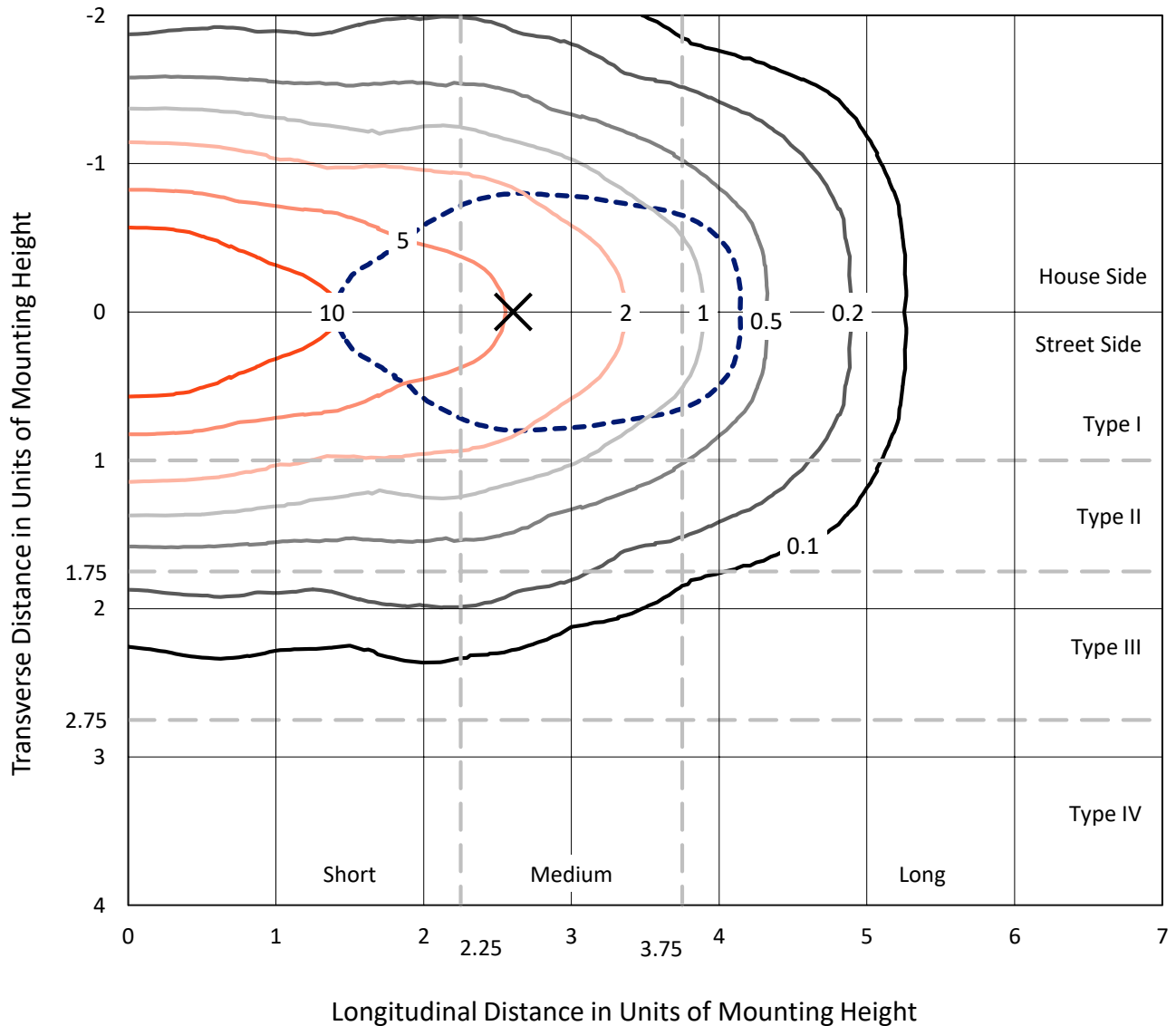
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180286
 CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

Iso-Footcandle Lines of Horizontal Illumination

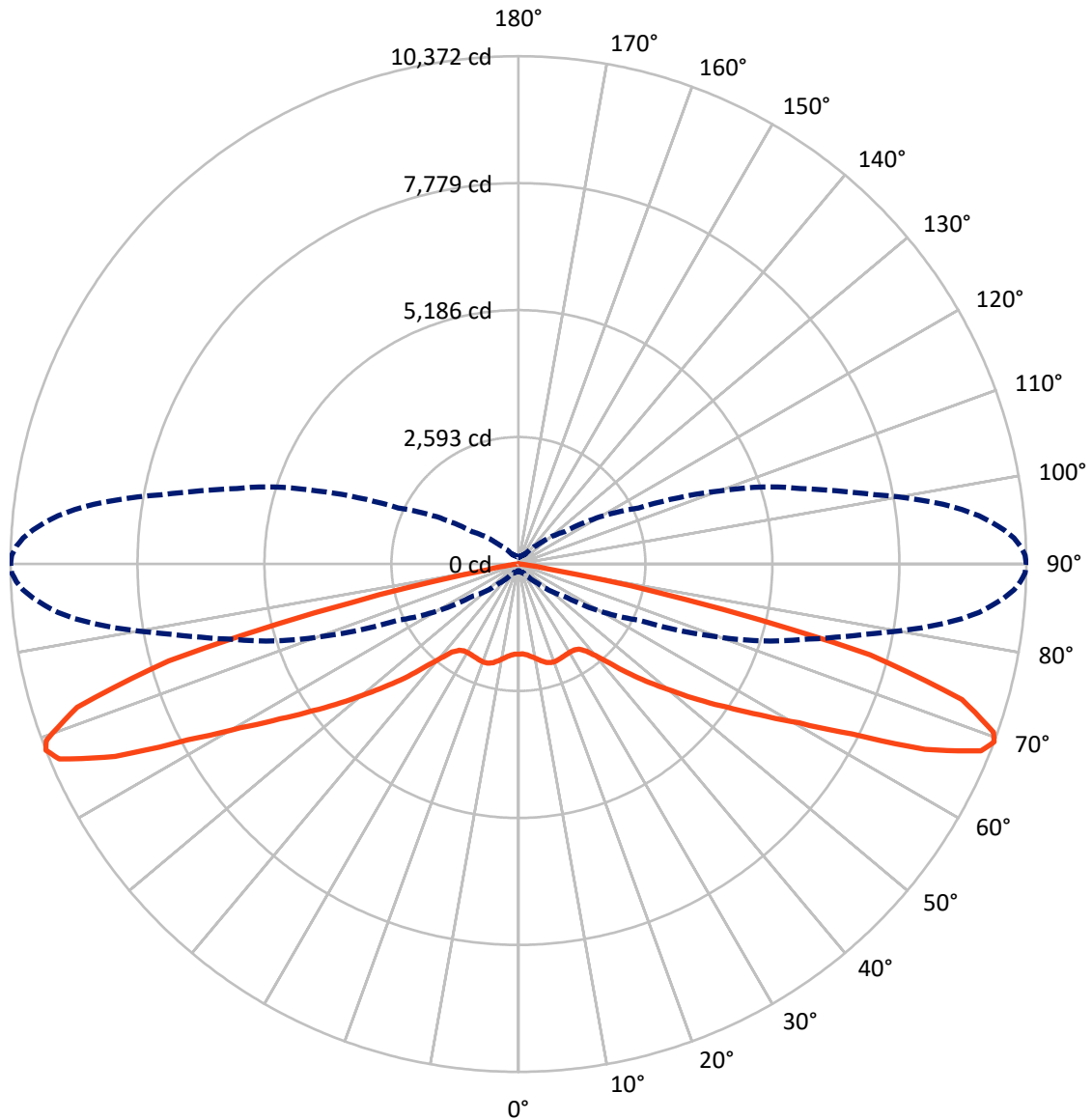
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P180286
CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180286

CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

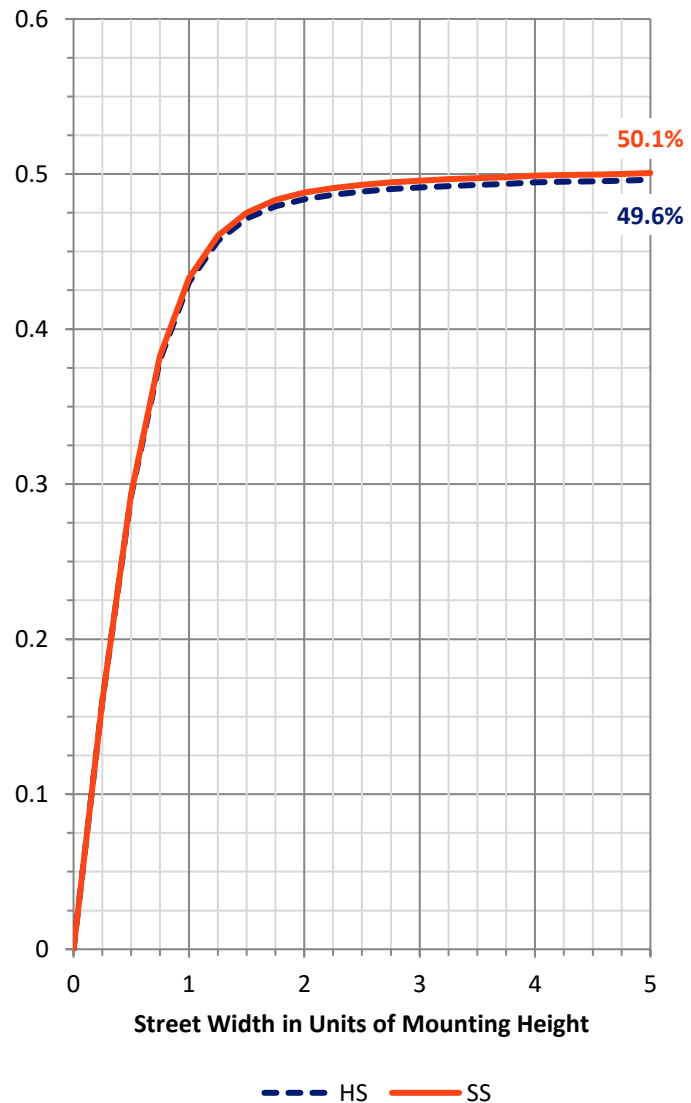
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4905.3	0.0	4905.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4905.3	0.0	4905.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9810.6	0.0	9810.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	1.8
10°-20°	568.8	5.8
20°-30°	921.5	9.4
30°-40°	1148.4	11.7
40°-50°	1435.1	14.6
50°-60°	1772.1	18.1
60°-70°	2201.9	22.4
70°-80°	1461.8	14.9
80°-90°	120.7	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°	9810.6	100.0
0°-180°	9810.6	100.0



REPORT NUMBER: P180286

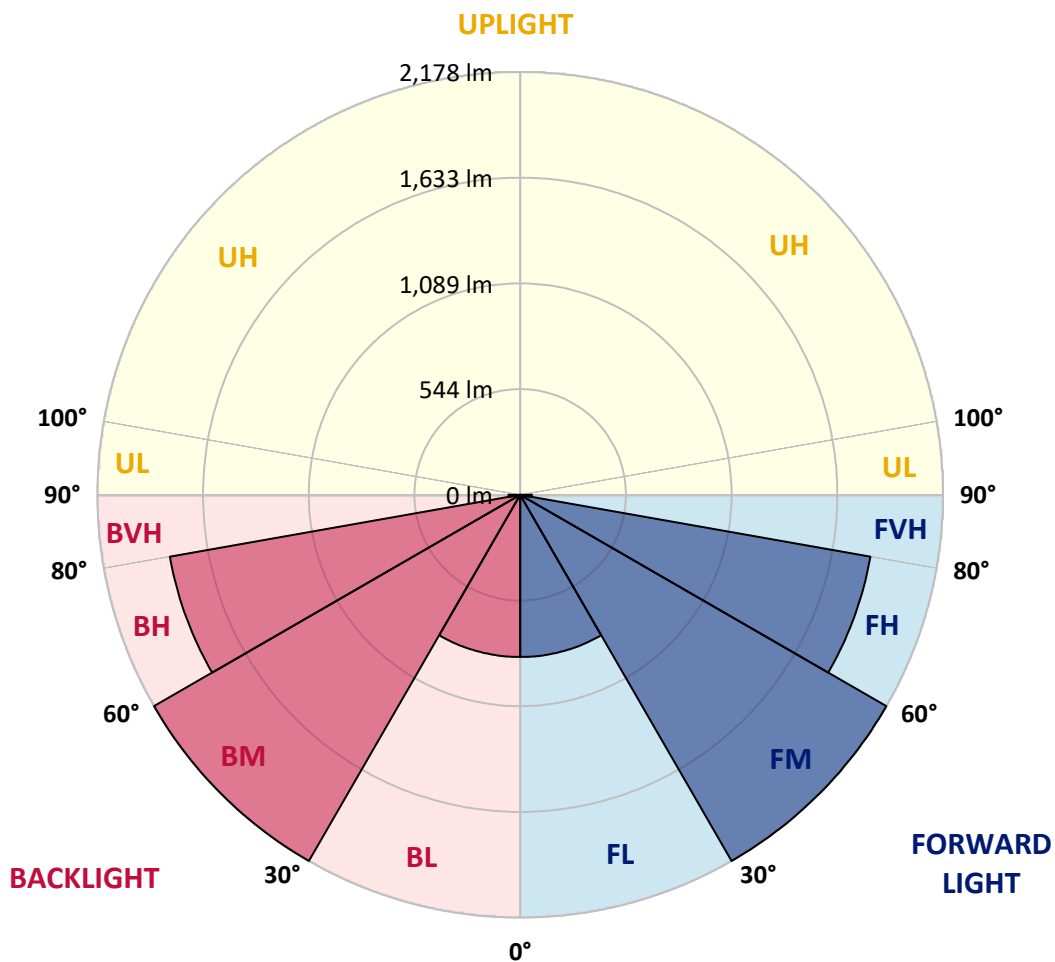
CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.3	8.5			
FM (30°-60°)	2177.8	22.2			
FH (60°-80°)	1831.8	18.7			G2/5000
FVH (80°-90°)	60.3	0.6			G1/100
BL (0°-30°)	835.3	8.5	B2/1000		
BM (30°-60°)	2177.8	22.2	B2/2500		
BH (60°-80°)	1831.8	18.7	B3/2500		G3/2500
BVH (80°-90°)	60.3	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: P180286

CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
2.5°	1846.6	1848.2	1847.1	1849.2	1848.8	1848.7	1847.6	1845.6	1844.3	1843.4	1843.5
5°	1864.4	1862.3	1865.5	1868.6	1867.5	1868.1	1867.5	1867.5	1866.4	1866.4	1866.2
7.5°	1883.2	1882.7	1884.8	1893.1	1894.2	1897.3	1901.0	1903.6	1904.2	1904.7	1904.2
10°	1899.5	1899.9	1905.2	1917.2	1923.5	1933.4	1943.4	1951.3	1954.2	1956.0	1955.7
12.5°	1912.6	1913.0	1920.9	1939.7	1954.9	1973.8	1995.3	2007.3	2012.5	2013.4	2014.4
15°	1913.6	1915.2	1928.8	1959.6	1990.0	2020.8	2046.5	2062.7	2067.0	2069.8	2070.0
17.5°	1900.0	1901.0	1924.1	1969.6	2020.3	2068.5	2095.3	2102.5	2104.1	2105.1	2104.7
20°	1864.4	1867.0	1899.5	1967.0	2044.5	2107.2	2135.0	2125.0	2120.1	2119.5	2118.9
22.5°	1806.8	1806.3	1848.8	1939.7	2049.1	2137.7	2162.2	2136.0	2120.6	2117.4	2115.3
25°	1713.7	1719.9	1769.7	1878.5	2022.4	2144.4	2181.6	2141.8	2119.5	2114.5	2108.6
27.5°	1612.7	1616.3	1669.2	1785.9	1960.2	2120.9	2191.0	2153.3	2128.4	2121.5	2114.5
30°	1494.9	1499.5	1556.1	1678.1	1860.1	2060.1	2188.4	2179.5	2150.4	2142.1	2133.2
32.5°	1379.7	1384.9	1435.7	1569.2	1755.0	1976.9	2172.7	2216.7	2186.8	2177.6	2168.4
35°	1260.4	1268.3	1330.0	1465.0	1653.4	1884.3	2148.6	2264.2	2247.8	2239.6	2231.5
37.5°	1161.4	1163.0	1222.7	1364.5	1559.3	1795.8	2116.7	2324.5	2336.5	2336.5	2337.6
40°	1051.0	1060.9	1120.7	1270.3	1473.9	1720.9	2086.3	2406.2	2468.7	2480.1	2488.9
42.5°	952.0	953.1	1013.8	1168.2	1381.3	1660.8	2069.6	2504.5	2638.2	2662.7	2687.1
45°	847.9	852.1	907.1	1056.2	1274.5	1589.6	2069.0	2618.1	2831.6	2872.7	2910.6
47.5°	749.6	751.1	809.2	947.9	1152.0	1490.1	2065.4	2740.1	3030.8	3091.3	3140.7
50°	655.3	653.8	710.8	844.3	1031.1	1359.8	2033.4	2878.3	3245.4	3314.3	3375.2
52.5°	547.5	554.8	614.0	741.6	921.2	1227.4	1940.3	3029.4	3468.7	3548.3	3624.9
55°	441.8	444.9	508.3	627.6	809.7	1103.8	1778.1	3168.8	3686.3	3776.7	3861.8
57.5°	325.6	335.0	390.5	508.2	696.7	999.7	1571.7	3241.0	3870.9	3975.1	4076.2
60°	229.8	237.0	286.3	385.3	572.7	890.3	1394.3	3200.6	4019.2	4152.3	4273.8
62.5°	179.0	184.7	224.0	288.4	446.5	780.9	1267.2	3070.3	4184.1	4357.7	4523.4
65°	157.0	162.2	197.9	230.9	333.4	669.4	1197.6	2932.7	4405.1	4660.7	4891.7
67.5°	141.8	148.1	179.0	202.0	271.6	584.1	1179.2	2845.8	4513.3	4846.3	5157.7
69°	135.1	141.3	169.1	188.5	252.3	553.8	1147.8	2709.1	4367.0	4722.9	5063.1
70°	130.8	136.1	161.8	181.6	246.0	532.8	1095.4	2538.5	4166.5	4525.8	4881.3
72.5°	121.5	124.1	146.6	166.0	228.2	430.8	842.7	1885.3	3296.7	3647.0	3992.1
75°	107.3	110.4	131.3	150.2	178.0	267.4	533.4	1166.1	2219.7	2480.8	2800.9
77.5°	92.7	95.3	113.6	143.4	138.2	167.0	318.7	649.0	1260.1	1411.7	1619.9
80°	74.3	77.4	93.7	142.3	114.1	129.9	229.2	453.8	618.7	663.9	713.9
82.5°	54.4	57.1	73.3	115.2	87.3	97.9	174.8	384.7	442.0	462.5	472.5
85°	27.7	28.3	46.6	70.1	55.4	50.8	98.4	263.3	299.9	305.0	312.7
87.5°	4.7	4.7	10.4	12.1	13.6	8.4	12.6	44.9	52.1	51.7	56.1
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: P180286

CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
2.5°	1844.2	1843.8	1844.5	1844.6	1845.2	1843.3	1842.8	1842.4	1842.4	1843.5	1842.4
5°	1866.6	1866.6	1867.0	1867.8	1867.6	1866.3	1866.2	1866.4	1864.9	1864.4	1865.4
7.5°	1905.2	1904.7	1903.6	1905.3	1906.4	1906.6	1907.7	1906.8	1906.2	1905.7	1906.8
10°	1957.6	1957.3	1957.6	1959.3	1960.6	1960.8	1962.1	1960.8	1960.1	1961.2	1961.2
12.5°	2016.4	2015.3	2017.7	2018.8	2020.4	2023.5	2021.9	2024.0	2022.4	2025.1	2025.1
15°	2071.7	2072.5	2074.8	2075.7	2076.1	2078.7	2079.1	2080.6	2078.5	2079.0	2083.2
17.5°	2106.2	2105.7	2107.3	2108.1	2109.4	2110.8	2113.2	2114.6	2113.5	2113.5	2115.5
20°	2117.8	2116.2	2116.7	2117.4	2117.6	2118.9	2120.7	2120.9	2120.9	2121.3	2123.5
22.5°	2112.1	2109.4	2106.7	2107.0	2107.2	2106.8	2108.1	2108.9	2109.8	2110.9	2113.5
25°	2104.1	2098.1	2093.0	2092.7	2091.3	2091.3	2091.9	2092.1	2093.1	2094.7	2096.8
27.5°	2104.9	2096.9	2088.9	2086.1	2083.3	2081.5	2080.8	2079.5	2080.6	2082.1	2084.2
30°	2122.8	2110.3	2098.8	2095.3	2091.2	2087.6	2084.7	2081.0	2079.0	2080.6	2081.6
32.5°	2154.4	2142.1	2130.8	2125.0	2119.3	2112.9	2107.2	2103.5	2098.9	2097.3	2096.8
35°	2221.3	2211.6	2201.5	2195.0	2185.3	2180.4	2173.4	2163.3	2155.9	2155.4	2151.3
37.5°	2334.4	2329.7	2322.4	2315.5	2312.4	2299.4	2291.0	2285.7	2277.4	2282.6	2273.7
40°	2496.8	2504.6	2511.3	2507.4	2508.6	2505.1	2500.1	2505.0	2499.3	2497.7	2499.3
42.5°	2704.8	2732.3	2751.6	2757.6	2773.1	2779.2	2790.5	2808.0	2804.5	2824.3	2827.9
45°	2945.9	2985.3	3023.7	3052.3	3083.6	3118.9	3154.3	3182.3	3204.3	3203.3	3227.4
47.5°	3191.7	3250.1	3301.1	3344.2	3400.3	3452.2	3509.3	3567.1	3609.0	3624.6	3629.8
50°	3440.9	3508.1	3578.1	3641.3	3717.0	3800.2	3890.1	3980.0	4025.0	4061.6	4086.3
52.5°	3701.9	3778.9	3853.4	3942.6	4036.1	4145.8	4258.2	4386.2	4454.2	4523.3	4559.9
55°	3950.1	4036.2	4113.0	4232.4	4347.1	4478.1	4624.7	4786.5	4904.3	4985.5	5057.1
57.5°	4175.7	4267.3	4361.5	4496.3	4642.5	4795.6	4981.6	5178.1	5306.4	5447.7	5574.8
60°	4395.9	4511.2	4619.6	4795.7	4969.7	5159.8	5391.5	5640.2	5838.6	6030.7	6177.2
62.5°	4688.0	4835.9	4970.7	5192.3	5419.6	5654.6	5930.1	6224.4	6512.2	6772.9	6970.3
65°	5119.6	5337.0	5538.7	5819.4	6106.4	6415.8	6744.5	7120.4	7465.9	7810.8	8093.4
67.5°	5447.1	5722.5	5981.5	6320.8	6658.5	7017.2	7414.5	7858.5	8286.1	8674.9	9019.4
69°	5382.8	5674.8	5955.4	6301.7	6652.8	7019.1	7420.0	7892.0	8336.3	8758.8	9128.2
70°	5187.2	5491.5	5782.1	6125.7	6481.4	6848.7	7268.2	7731.9	8186.7	8636.8	9010.0
72.5°	4299.0	4604.2	4886.5	5238.3	5596.3	5982.0	6379.3	6830.9	7316.7	7797.7	8124.9
75°	3082.3	3352.1	3625.7	3923.2	4272.5	4590.4	4953.9	5384.8	5793.1	6166.3	6416.4
77.5°	1821.8	1983.4	2178.4	2318.3	2521.1	2696.2	2881.1	3120.6	3246.2	3486.9	3548.7
80°	742.3	737.8	766.8	738.1	744.5	721.0	696.0	691.4	652.2	701.4	664.7
82.5°	471.5	438.5	403.5	355.0	312.2	267.3	226.0	191.6	185.3	186.3	184.3
85°	310.6	296.4	264.8	222.7	181.5	145.6	116.6	92.1	91.1	89.5	89.0
87.5°	56.2	52.2	43.0	36.7	30.9	23.1	16.2	12.1	11.5	11.5	13.6
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: P180286

CATALOG NUMBER: ICM-E04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°
0°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
2.5°	1842.4	1842.4	1841.9	1843.0	1842.4	1840.8	1839.3
5°	1866.4	1864.4	1866.0	1867.5	1864.9	1865.4	1864.4
7.5°	1906.8	1906.2	1906.8	1905.1	1904.2	1905.7	1907.3
10°	1963.4	1962.2	1961.7	1963.4	1962.2	1961.2	1961.8
12.5°	2026.6	2026.6	2026.1	2026.6	2026.1	2024.6	2023.5
15°	2082.7	2083.7	2083.7	2082.7	2082.2	2081.6	2082.2
17.5°	2117.2	2116.7	2116.7	2116.7	2116.1	2116.7	2117.7
20°	2126.2	2124.5	2124.6	2125.6	2124.5	2125.6	2126.1
22.5°	2114.1	2114.1	2114.1	2114.6	2115.5	2115.6	2116.7
25°	2098.9	2098.8	2098.8	2099.9	2099.9	2100.5	2100.9
27.5°	2086.8	2086.9	2086.8	2087.8	2087.8	2088.4	2089.4
30°	2083.2	2083.2	2082.6	2083.2	2083.7	2083.7	2084.2
32.5°	2097.3	2095.7	2095.2	2094.2	2093.0	2093.1	2092.6
35°	2147.0	2142.9	2143.4	2140.3	2141.3	2138.6	2136.6
37.5°	2267.9	2263.7	2259.0	2252.8	2249.1	2253.8	2253.8
40°	2494.0	2496.6	2485.1	2482.1	2475.2	2479.8	2486.2
42.5°	2830.1	2833.1	2835.3	2818.1	2817.6	2813.8	2803.4
45°	3228.4	3221.0	3224.2	3216.4	3213.2	3201.7	3215.8
47.5°	3649.7	3654.4	3635.6	3629.3	3640.3	3621.4	3624.1
50°	4100.4	4101.4	4087.3	4084.1	4094.1	4058.4	4075.3
52.5°	4586.1	4588.2	4599.2	4586.1	4591.3	4582.9	4599.7
55°	5102.7	5142.0	5145.6	5159.8	5160.8	5178.1	5160.8
57.5°	5645.4	5690.0	5731.8	5788.9	5801.4	5794.6	5805.6
60°	6299.2	6415.9	6478.7	6568.2	6582.4	6621.1	6587.6
62.5°	7155.6	7337.2	7474.3	7543.4	7585.3	7666.4	7639.7
65°	8353.1	8569.3	8777.5	8877.1	8986.9	9102.0	9123.0
67.5°	9334.0	9574.2	9790.9	9963.0	10097.0	10181.8	10188.7
69°	9456.4	9711.9	9940.1	10131.6	10261.9	10348.9	10371.9
70°	9346.0	9607.2	9849.0	10031.7	10177.2	10265.6	10296.5
72.5°	8468.2	8779.1	8972.7	9159.1	9364.3	9390.9	9475.8
75°	6703.3	6982.3	7172.3	7221.4	7328.8	7463.9	7415.7
77.5°	3496.4	3617.8	3658.1	3572.3	3568.0	3647.1	3490.1
80°	665.8	666.8	655.8	651.6	659.5	651.7	640.7
82.5°	187.9	185.3	183.7	187.9	187.3	186.9	190.5
85°	86.9	84.3	80.1	80.1	82.2	79.1	80.6
87.5°	12.1	10.0	10.0	10.0	9.5	9.5	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)