

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: P180348

Luminaire Tested: **ICS-E04-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180348
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: ICS-E04-LED-E1-RW
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11246.7 lumens
Efficiency: N/A
Efficacy: 115.7 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

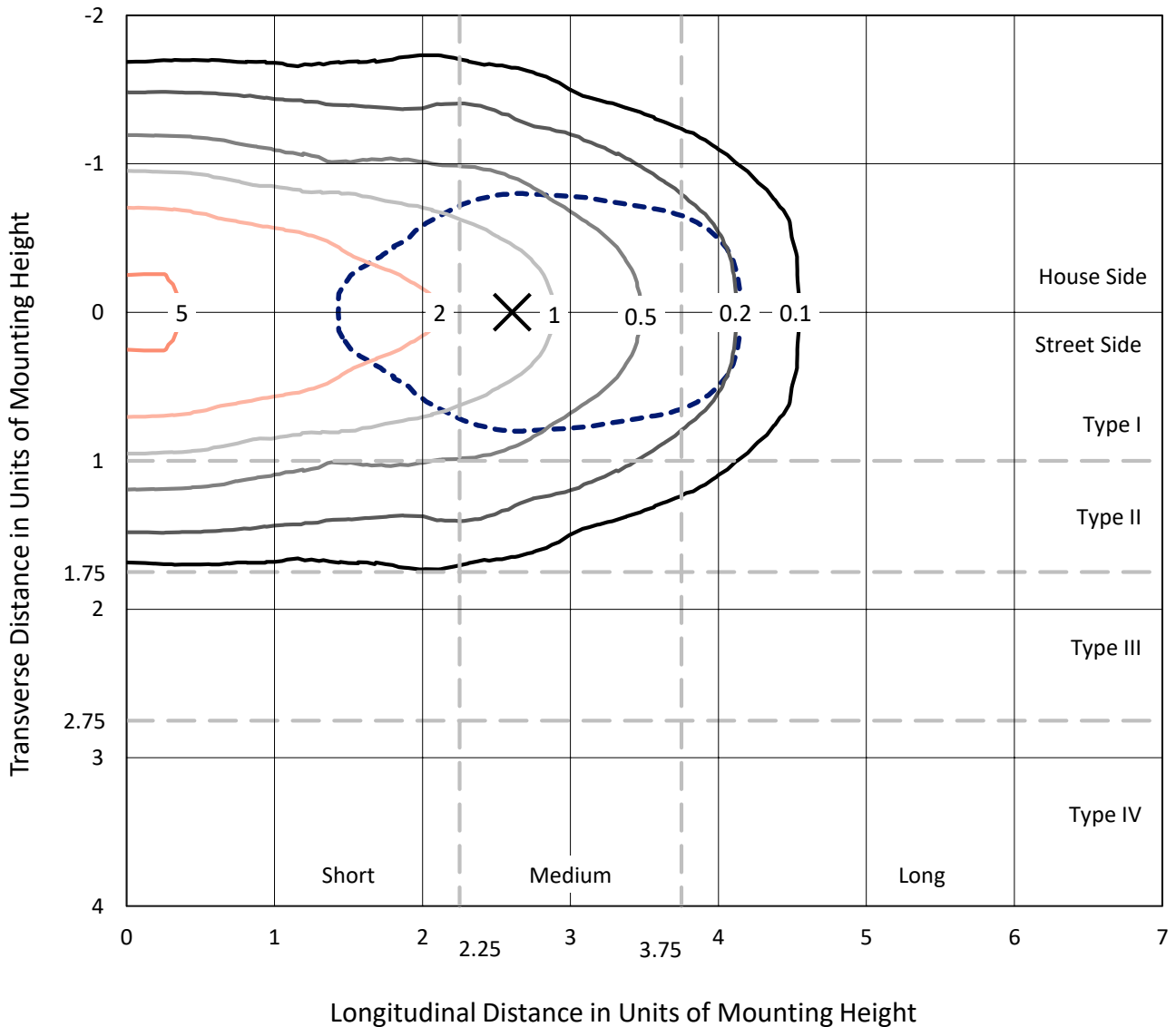
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180348
 CATALOG NUMBER: ICS-E04-LED-E1-RW

Iso-Footcandle Lines of Horizontal Illumination

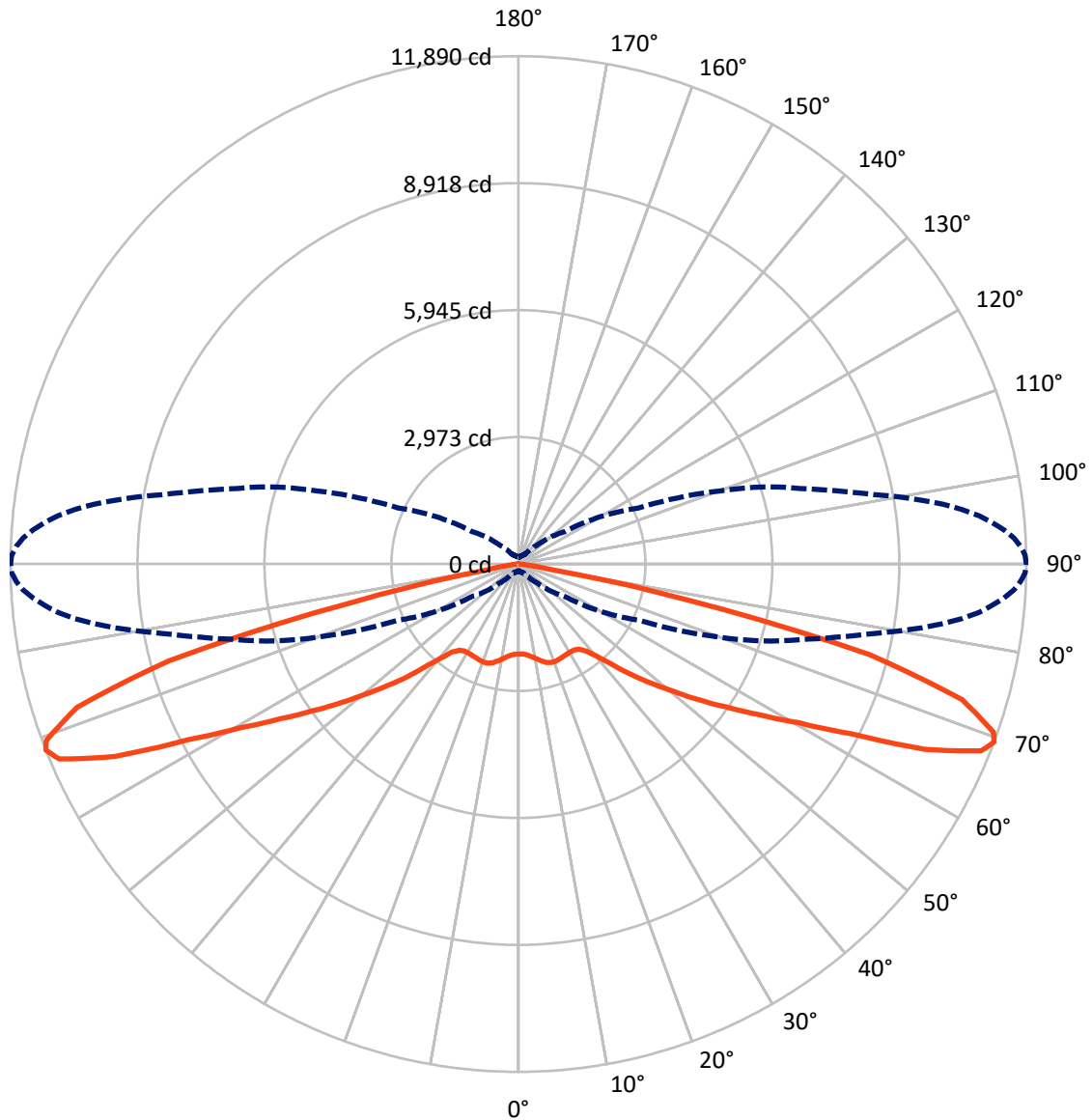
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P180348
CATALOG NUMBER: ICS-E04-LED-E1-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180348

CATALOG NUMBER: ICS-E04-LED-E1-RW

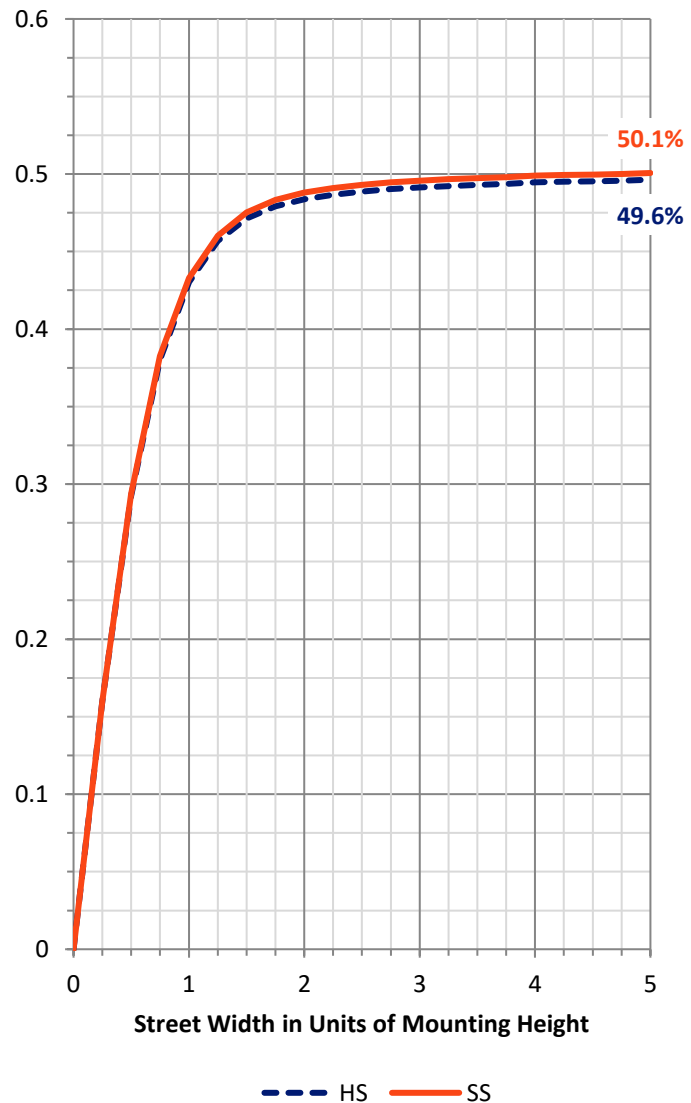
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5623.4	0.0	5623.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5623.4	0.0	5623.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	11246.7	0.0	11246.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.8
10°-20°	652.1	5.8
20°-30°	1056.4	9.4
30°-40°	1316.6	11.7
40°-50°	1645.2	14.6
50°-60°	2031.5	18.1
60°-70°	2524.2	22.4
70°-80°	1675.7	14.9
80°-90°	138.3	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°	11246.7	100.0
0°-180°	11246.7	100.0



REPORT NUMBER: P180348

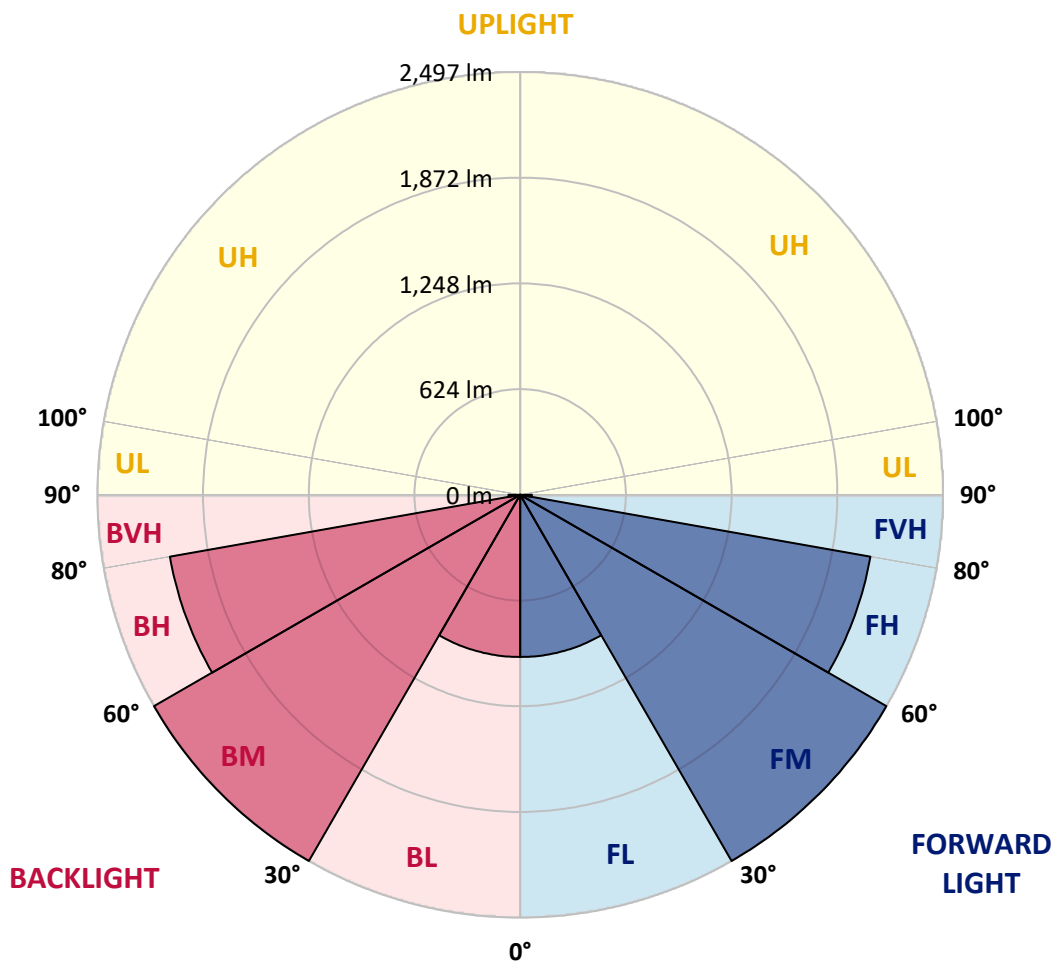
CATALOG NUMBER: ICS-E04-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.6	8.5			
FM	(30°-60°)	2496.6	22.2			
FH	(60°-80°)	2100.0	18.7			G2/5000
FVH	(80°-90°)	69.2	0.6			G1/100
BL	(0°-30°)	957.6	8.5	B2/1000		
BM	(30°-60°)	2496.6	22.2	B2/2500		
BH	(60°-80°)	2100.0	18.7	B3/2500		G3/2500
BVH	(80°-90°)	69.2	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: P180348

CATALOG NUMBER: ICS-E04-LED-E1-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3
2.5°	2116.9	2118.7	2117.5	2119.9	2119.3	2119.3	2118.1	2115.7	2114.2	2113.2	2113.4
5°	2137.3	2134.9	2138.5	2142.1	2140.9	2141.5	2140.9	2140.9	2139.7	2139.6	2139.5
7.5°	2158.9	2158.3	2160.7	2170.3	2171.5	2175.1	2179.3	2182.3	2182.9	2183.5	2182.9
10°	2177.5	2178.1	2184.1	2197.9	2205.1	2216.5	2227.9	2236.9	2240.2	2242.3	2242.0
12.5°	2192.5	2193.1	2202.1	2223.7	2241.1	2262.7	2287.3	2301.1	2307.1	2308.2	2309.3
15°	2193.7	2195.5	2211.1	2246.5	2281.3	2316.7	2346.1	2364.7	2369.5	2372.7	2373.0
17.5°	2178.1	2179.3	2205.7	2257.9	2316.1	2371.3	2401.9	2410.3	2412.1	2413.3	2412.7
20°	2137.3	2140.3	2177.5	2254.9	2343.7	2415.7	2447.5	2436.1	2430.4	2429.7	2429.1
22.5°	2071.3	2070.7	2119.3	2223.7	2349.1	2450.5	2478.7	2448.7	2431.0	2427.3	2424.9
25°	1964.5	1971.7	2028.7	2153.5	2318.5	2458.3	2500.9	2455.3	2429.8	2424.1	2417.2
27.5°	1848.7	1852.9	1913.5	2047.3	2247.1	2431.3	2511.7	2468.5	2440.0	2432.0	2424.0
30°	1713.7	1719.1	1783.9	1923.7	2132.5	2361.7	2508.7	2498.5	2465.2	2455.7	2445.5
32.5°	1581.7	1587.7	1645.9	1798.9	2011.9	2266.3	2490.7	2541.1	2506.9	2496.3	2485.8
35°	1444.9	1453.9	1524.7	1679.5	1895.5	2160.1	2463.1	2595.7	2576.8	2567.5	2558.2
37.5°	1331.5	1333.3	1401.7	1564.3	1787.5	2058.7	2426.5	2664.7	2678.6	2678.6	2679.8
40°	1204.9	1216.3	1284.7	1456.3	1689.7	1972.9	2391.7	2758.4	2830.0	2843.2	2853.3
42.5°	1091.5	1092.7	1162.3	1339.3	1583.5	1903.9	2372.5	2871.2	3024.5	3052.5	3080.5
45°	972.1	976.9	1039.9	1210.9	1461.1	1822.3	2371.9	3001.4	3246.2	3293.2	3336.7
47.5°	859.2	861.0	927.6	1086.7	1320.7	1708.3	2367.7	3141.2	3474.5	3543.8	3600.5
50°	751.2	749.4	814.8	967.9	1182.1	1558.9	2331.1	3299.6	3720.5	3799.4	3869.3
52.5°	627.6	636.0	703.8	850.2	1056.1	1407.1	2224.3	3473.0	3976.4	4067.7	4155.4
55°	506.4	510.0	582.6	719.4	928.2	1265.5	2038.3	3632.6	4226.0	4329.6	4427.2
57.5°	373.2	384.0	447.6	582.6	798.6	1146.1	1801.9	3715.4	4437.5	4557.0	4672.9
60°	263.4	271.8	328.2	441.6	656.4	1020.7	1598.5	3669.2	4607.6	4760.2	4899.5
62.5°	205.2	211.8	256.8	330.6	511.8	895.2	1452.7	3519.8	4796.6	4995.6	5185.6
65°	180.0	186.0	226.8	264.6	382.2	767.4	1372.9	3362.0	5049.9	5343.0	5607.8
67.5°	162.6	169.8	205.2	231.6	311.4	669.6	1351.9	3262.4	5174.1	5555.7	5912.7
69°	154.8	162.0	193.8	216.0	289.2	634.8	1315.9	3105.8	5006.4	5414.4	5804.3
70°	150.0	156.0	185.4	208.2	282.0	610.8	1255.9	2910.2	4776.6	5188.4	5596.0
72.5°	139.2	142.2	168.0	190.2	261.6	493.8	966.0	2161.3	3779.3	4180.9	4576.5
75°	123.0	126.6	150.6	172.2	204.0	306.6	611.4	1336.9	2544.8	2843.9	3210.9
77.5°	106.2	109.2	130.2	164.4	158.4	191.4	365.4	744.0	1444.6	1618.4	1857.1
80°	85.2	88.8	107.4	163.2	130.8	148.8	262.8	520.2	709.2	761.1	818.3
82.5°	62.4	65.4	84.0	132.0	100.2	112.2	200.4	441.0	506.7	530.2	541.6
85°	31.8	32.4	53.4	80.4	63.6	58.2	112.8	301.8	343.8	349.7	358.6
87.5°	5.4	5.4	12.0	13.8	15.6	9.6	14.4	51.6	59.7	59.3	64.3
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: P180348

CATALOG NUMBER: ICS-E04-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3
2.5°	2114.1	2113.7	2114.5	2114.6	2115.3	2113.1	2112.6	2112.1	2112.1	2113.3	2112.1
5°	2139.9	2139.8	2140.3	2141.3	2141.0	2139.6	2139.3	2139.7	2137.9	2137.3	2138.5
7.5°	2184.1	2183.5	2182.3	2184.2	2185.5	2185.7	2187.0	2185.9	2185.3	2184.7	2185.9
10°	2244.1	2243.8	2244.1	2246.1	2247.6	2247.8	2249.3	2247.7	2247.1	2248.3	2248.3
12.5°	2311.5	2310.2	2313.1	2314.3	2316.1	2319.7	2317.9	2320.3	2318.5	2321.5	2321.5
15°	2375.0	2375.9	2378.5	2379.6	2380.1	2382.9	2383.4	2385.1	2382.7	2383.3	2388.1
17.5°	2414.5	2413.9	2415.7	2416.7	2418.2	2419.8	2422.5	2424.1	2422.9	2422.9	2425.3
20°	2427.8	2426.0	2426.5	2427.3	2427.6	2429.0	2431.1	2431.3	2431.3	2431.9	2434.3
22.5°	2421.2	2418.2	2415.1	2415.3	2415.6	2415.2	2416.7	2417.5	2418.7	2419.9	2422.9
25°	2412.1	2405.2	2399.5	2399.0	2397.3	2397.5	2398.2	2398.3	2399.5	2401.3	2403.7
27.5°	2413.1	2403.9	2394.7	2391.5	2388.2	2386.2	2385.3	2383.9	2385.1	2386.9	2389.3
30°	2433.6	2419.2	2406.1	2402.0	2397.3	2393.3	2389.8	2385.7	2383.3	2385.1	2386.3
32.5°	2469.8	2455.7	2442.7	2436.1	2429.5	2422.3	2415.7	2411.5	2406.1	2404.3	2403.7
35°	2546.5	2535.4	2523.7	2516.3	2505.2	2499.6	2491.5	2479.9	2471.5	2470.9	2466.1
37.5°	2676.2	2670.8	2662.4	2654.6	2651.0	2636.0	2626.4	2620.4	2610.7	2616.7	2606.5
40°	2862.3	2871.2	2879.0	2874.4	2875.8	2871.9	2866.1	2871.8	2865.2	2863.4	2865.1
42.5°	3100.8	3132.4	3154.4	3161.4	3179.1	3186.1	3199.0	3219.2	3215.0	3237.8	3242.0
45°	3377.1	3422.4	3466.4	3499.2	3534.9	3575.5	3616.0	3648.2	3673.4	3672.2	3699.8
47.5°	3659.0	3725.9	3784.4	3833.7	3898.0	3957.6	4023.1	4089.2	4137.2	4155.2	4161.2
50°	3944.6	4021.7	4101.8	4174.3	4261.2	4356.5	4459.6	4562.6	4614.3	4656.2	4684.5
52.5°	4243.8	4332.1	4417.4	4519.8	4626.9	4752.7	4881.5	5028.3	5106.3	5185.5	5227.5
55°	4528.3	4627.1	4715.0	4852.0	4983.5	5133.7	5301.8	5487.3	5622.3	5715.3	5797.5
57.5°	4786.9	4892.0	5000.1	5154.5	5322.2	5497.6	5710.9	5936.1	6083.1	6245.2	6391.0
60°	5039.4	5171.6	5295.9	5497.8	5697.2	5915.2	6180.7	6466.0	6693.4	6913.6	7081.6
62.5°	5374.4	5543.9	5698.5	5952.4	6213.0	6482.5	6798.2	7135.6	7465.6	7764.4	7990.6
65°	5869.0	6118.3	6349.6	6671.3	7000.2	7355.0	7731.9	8162.8	8558.8	8954.3	9278.3
67.5°	6244.5	6560.1	6857.2	7246.1	7633.3	8044.4	8499.9	9008.8	9499.2	9945.0	10339.8
69°	6170.8	6505.6	6827.2	7224.3	7626.8	8046.7	8506.2	9047.2	9556.8	10041.0	10464.6
70°	5946.6	6295.4	6628.6	7022.5	7430.3	7851.3	8332.3	8863.6	9385.2	9901.2	10329.0
72.5°	4928.3	5278.3	5601.9	6005.1	6415.5	6857.8	7313.2	7831.0	8387.8	8939.2	9314.3
75°	3533.5	3842.9	4156.4	4497.5	4898.0	5262.4	5679.1	6173.2	6641.2	7069.0	7355.8
77.5°	2088.5	2273.7	2497.4	2657.8	2890.2	3090.9	3303.0	3577.4	3721.4	3997.4	4068.2
80°	851.0	845.8	879.0	846.2	853.5	826.6	797.9	792.6	747.6	804.0	762.0
82.5°	540.5	502.7	462.6	406.9	357.8	306.4	259.1	219.6	212.4	213.6	211.2
85°	356.0	339.7	303.6	255.2	208.1	166.9	133.6	105.6	104.4	102.6	102.0
87.5°	64.4	59.8	49.2	42.0	35.4	26.4	18.6	13.8	13.2	13.2	15.6
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: P180348

CATALOG NUMBER: ICS-E04-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°
0°	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3	2107.3
2.5°	2112.1	2112.1	2111.5	2112.7	2112.1	2110.3	2108.5
5°	2139.7	2137.3	2139.1	2140.9	2137.9	2138.5	2137.3
7.5°	2185.9	2185.3	2185.9	2184.1	2182.9	2184.7	2186.5
10°	2250.7	2249.5	2248.9	2250.7	2249.5	2248.3	2248.9
12.5°	2323.3	2323.3	2322.7	2323.3	2322.7	2320.9	2319.7
15°	2387.5	2388.7	2388.7	2387.5	2386.9	2386.3	2386.9
17.5°	2427.1	2426.5	2426.5	2426.5	2425.9	2426.5	2427.7
20°	2437.3	2435.5	2435.5	2436.7	2435.5	2436.7	2437.3
22.5°	2423.5	2423.5	2423.5	2424.1	2425.3	2425.3	2426.5
25°	2406.1	2406.1	2406.1	2407.3	2407.3	2407.9	2408.5
27.5°	2392.3	2392.3	2392.3	2393.5	2393.5	2394.1	2395.3
30°	2388.1	2388.1	2387.5	2388.1	2388.7	2388.7	2389.3
32.5°	2404.3	2402.5	2401.9	2400.7	2399.5	2399.5	2398.9
35°	2461.3	2456.5	2457.1	2453.5	2454.7	2451.7	2449.3
37.5°	2599.9	2595.1	2589.7	2582.5	2578.3	2583.7	2583.7
40°	2859.2	2862.2	2849.0	2845.4	2837.6	2843.0	2850.2
42.5°	3244.4	3248.0	3250.4	3230.6	3230.0	3225.8	3213.8
45°	3701.0	3692.6	3696.2	3687.2	3683.6	3670.4	3686.6
47.5°	4184.0	4189.4	4167.8	4160.6	4173.2	4151.6	4154.6
50°	4700.6	4701.8	4685.6	4682.0	4693.4	4652.6	4671.9
52.5°	5257.5	5259.9	5272.5	5257.5	5263.5	5253.9	5273.1
55°	5849.7	5894.7	5898.9	5915.1	5916.3	5936.1	5916.3
57.5°	6472.0	6523.0	6571.0	6636.4	6650.8	6643.0	6655.6
60°	7221.4	7355.2	7427.2	7529.8	7546.0	7590.4	7552.0
62.5°	8203.0	8411.2	8568.5	8647.7	8695.7	8788.7	8758.1
65°	9575.9	9823.8	10062.6	10176.6	10302.6	10434.6	10458.6
67.5°	10700.4	10975.8	11224.2	11421.6	11575.2	11672.4	11680.2
69°	10840.8	11133.6	11395.2	11614.8	11764.2	11863.8	11890.2
70°	10714.2	11013.6	11290.8	11500.2	11667.0	11768.4	11803.8
72.5°	9708.0	10064.4	10286.3	10500.0	10735.2	10765.8	10863.0
75°	7684.6	8004.4	8222.2	8278.6	8401.6	8556.5	8501.3
77.5°	4008.2	4147.4	4193.6	4095.2	4090.4	4181.0	4001.0
80°	763.2	764.4	751.8	747.0	756.0	747.0	734.4
82.5°	215.4	212.4	210.6	215.4	214.8	214.2	218.4
85°	99.6	96.6	91.8	91.8	94.2	90.6	92.4
87.5°	13.8	11.4	11.4	11.4	10.8	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)