

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: P180296

Luminaire Tested: **ICM-E05-LED-E1-RW-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180296  
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-E05-LED-E1-RW-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12263.2 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

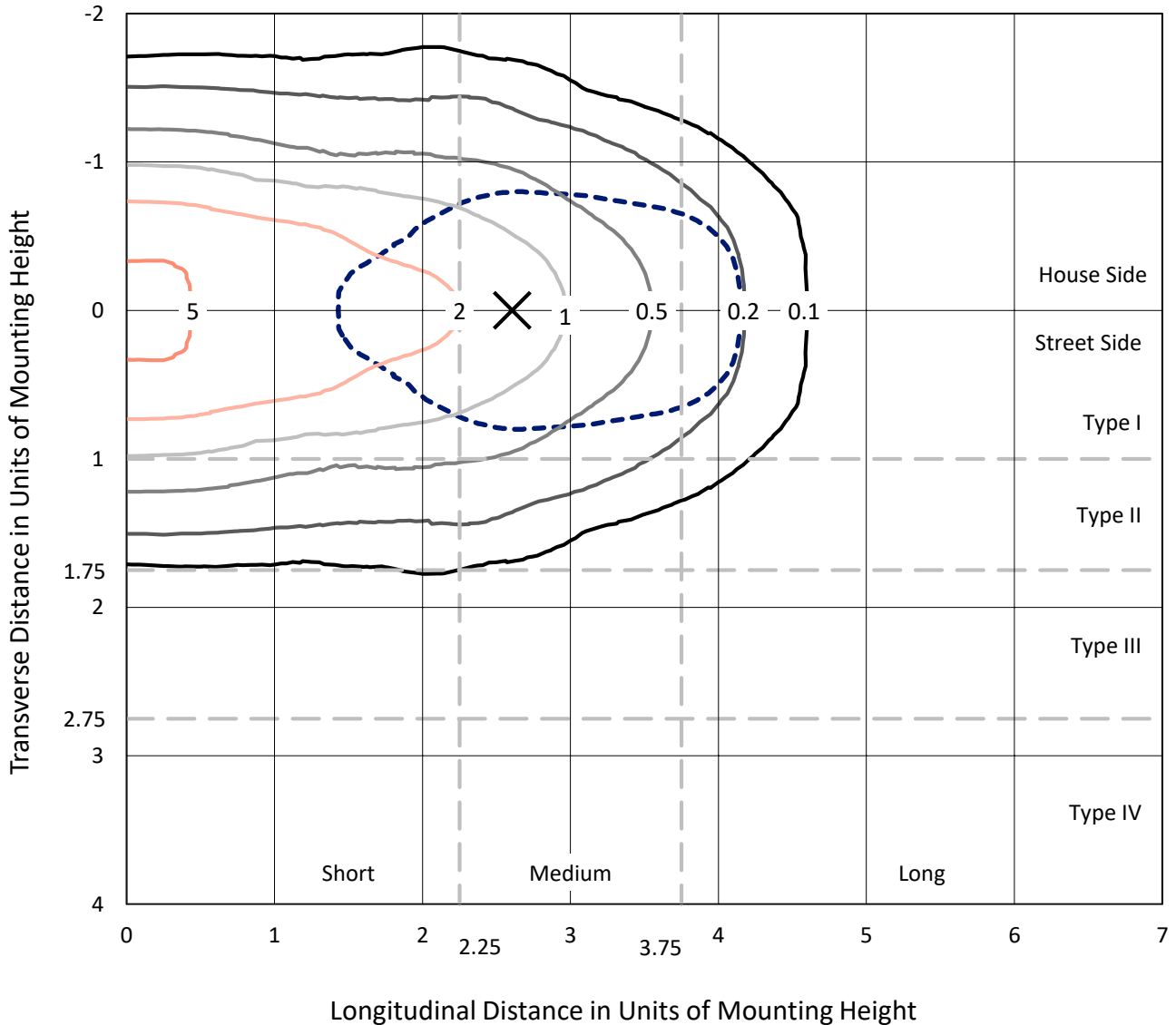
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P180296  
 CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

### Iso-Footcandle Lines of Horizontal Illumination

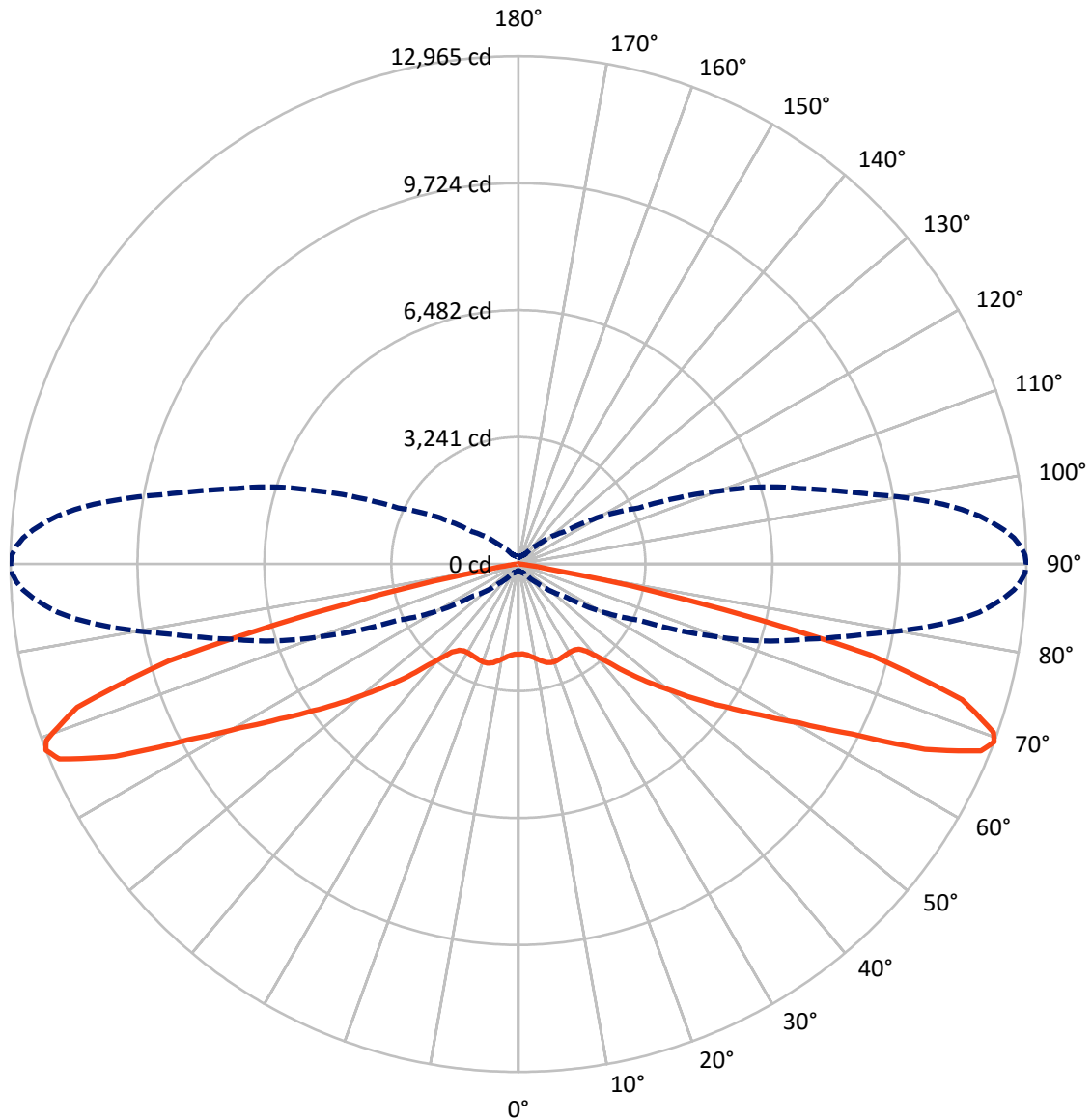
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type I - Short - Full Cutoff

REPORT NUMBER: P180296  
CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P180296

CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6131.6	0.0	6131.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6131.6	0.0	6131.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12263.2	0.0	12263.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	1.8
10°-20°	711.0	5.8
20°-30°	1151.9	9.4
30°-40°	1435.6	11.7
40°-50°	1793.9	14.6
50°-60°	2215.1	18.1
60°-70°	2752.3	22.4
70°-80°	1827.2	14.9
80°-90°	150.9	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°	12263.2	100.0
0°-180°	12263.2	100.0



REPORT NUMBER: P180296

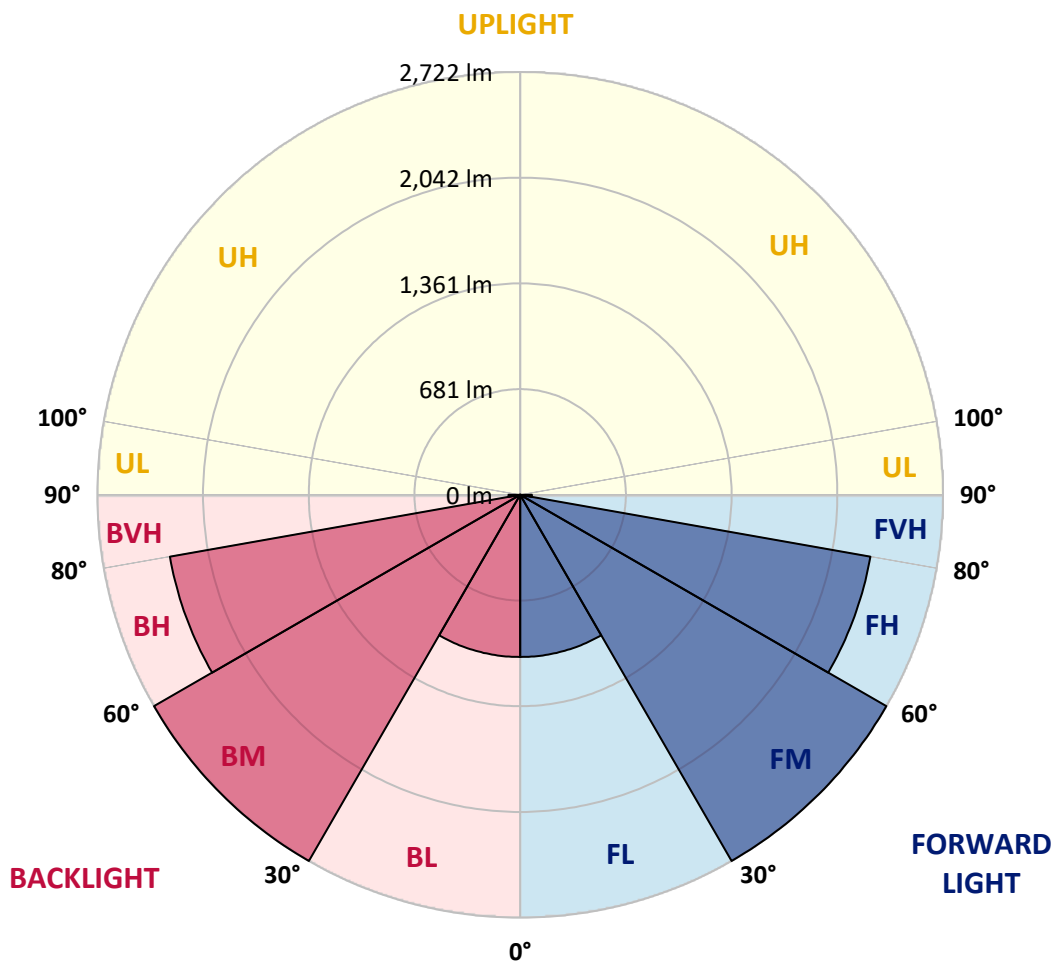
CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1044.1	8.5			
FM	(30°-60°)	2722.3	22.2			
FH	(60°-80°)	2289.8	18.7			G2/5000
FVH	(80°-90°)	75.4	0.6			G1/100
BL	(0°-30°)	1044.1	8.5	B3/2500		
BM	(30°-60°)	2722.3	22.2	B3/5000		
BH	(60°-80°)	2289.8	18.7	B3/2500		G3/2500
BVH	(80°-90°)	75.4	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: P180296

CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8
2.5°	2308.2	2310.2	2308.9	2311.5	2310.9	2310.9	2309.6	2306.9	2305.3	2304.2	2304.4
5°	2330.4	2327.8	2331.8	2335.7	2334.3	2335.1	2334.4	2334.3	2333.1	2332.9	2332.9
7.5°	2354.1	2353.4	2355.9	2366.5	2367.7	2371.7	2376.3	2379.5	2380.2	2380.9	2380.2
10°	2374.3	2374.9	2381.5	2396.5	2404.4	2416.8	2429.2	2439.1	2442.7	2444.9	2444.7
12.5°	2390.7	2391.3	2401.1	2424.8	2443.7	2467.2	2494.0	2509.0	2515.6	2516.8	2518.0
15°	2392.0	2394.0	2411.0	2449.5	2487.5	2526.2	2558.2	2578.4	2583.6	2587.2	2587.5
17.5°	2374.9	2376.2	2405.0	2462.0	2525.4	2585.7	2619.0	2628.1	2630.2	2631.5	2630.8
20°	2330.4	2333.8	2374.3	2458.7	2555.6	2634.1	2668.8	2656.3	2650.1	2649.4	2648.7
22.5°	2258.5	2257.8	2310.8	2424.8	2561.4	2672.0	2702.7	2670.1	2650.7	2646.7	2644.1
25°	2142.0	2150.0	2212.1	2348.1	2528.0	2680.6	2726.9	2677.2	2649.4	2643.2	2635.7
27.5°	2015.8	2020.3	2086.4	2232.4	2450.2	2651.0	2738.7	2691.6	2660.6	2651.8	2643.2
30°	1868.6	1874.4	1945.1	2097.6	2325.2	2575.2	2735.5	2724.3	2688.0	2677.7	2666.6
32.5°	1724.7	1731.2	1794.6	1961.5	2193.7	2471.1	2715.8	2770.8	2733.5	2722.0	2710.4
35°	1575.5	1585.3	1662.5	1831.3	2066.8	2355.4	2685.7	2830.3	2809.7	2799.6	2789.4
37.5°	1451.8	1453.8	1528.4	1705.7	1949.0	2244.8	2645.8	2905.6	2920.6	2920.6	2922.0
40°	1313.7	1326.1	1400.8	1587.9	1842.4	2151.3	2607.8	3007.6	3085.8	3100.1	3111.2
42.5°	1190.1	1191.4	1267.4	1460.3	1726.5	2075.9	2587.0	3130.6	3297.8	3328.4	3358.9
45°	1059.9	1065.1	1133.9	1320.3	1593.1	1987.0	2586.2	3272.6	3539.6	3590.8	3638.3
47.5°	936.9	938.8	1011.5	1184.9	1440.0	1862.7	2581.8	3425.0	3788.5	3864.0	3925.9
50°	819.2	817.1	888.5	1055.3	1288.9	1699.7	2541.8	3597.8	4056.8	4142.7	4219.0
52.5°	684.4	693.5	767.4	927.1	1151.4	1534.2	2425.3	3786.8	4335.7	4435.4	4531.0
55°	552.2	556.1	635.3	784.5	1012.1	1379.9	2222.5	3961.0	4607.9	4721.0	4827.3
57.5°	406.9	418.7	488.1	635.4	870.9	1249.7	1964.8	4051.2	4838.5	4968.9	5095.2
60°	287.3	296.4	357.9	481.5	715.7	1112.9	1742.9	4000.8	5024.0	5190.4	5342.3
62.5°	223.8	230.9	280.0	360.5	558.1	976.2	1584.0	3837.9	5230.2	5447.1	5654.3
65°	196.3	202.8	247.4	288.6	416.7	836.8	1496.9	3665.9	5506.3	5825.8	6114.6
67.5°	177.3	185.1	223.7	252.6	339.5	730.1	1474.1	3557.2	5641.7	6057.8	6447.1
69°	168.8	176.7	211.4	235.5	315.4	692.2	1434.8	3386.4	5458.8	5903.7	6328.9
70°	163.5	170.1	202.1	227.0	307.4	666.1	1369.4	3173.1	5208.2	5657.2	6101.7
72.5°	151.8	155.1	183.3	207.4	285.2	538.4	1053.4	2356.7	4120.9	4558.7	4990.2
75°	134.1	138.0	164.3	187.7	222.5	334.3	666.7	1457.7	2774.7	3100.9	3501.1
77.5°	115.8	119.1	142.0	179.3	172.7	208.7	398.4	811.4	1575.2	1764.7	2024.8
80°	92.9	96.8	117.1	178.0	142.7	162.2	286.5	567.3	773.3	829.9	892.3
82.5°	68.1	71.3	91.5	144.0	109.2	122.4	218.6	480.9	552.6	578.1	590.6
85°	34.6	35.3	58.2	87.6	69.4	63.4	123.0	329.1	374.9	381.3	391.0
87.5°	6.0	6.0	13.0	15.1	17.0	10.4	15.7	56.3	65.1	64.7	70.0
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: P180296

CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

**CANDELA DISTRIBUTION (continued):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8
2.5°	2305.2	2304.8	2305.7	2305.8	2306.5	2304.1	2303.5	2303.0	2303.0	2304.3	2303.0
5°	2333.4	2333.2	2333.8	2334.8	2334.5	2332.9	2332.7	2333.0	2331.2	2330.4	2331.7
7.5°	2381.5	2380.9	2379.5	2381.6	2383.1	2383.2	2384.7	2383.5	2382.8	2382.2	2383.5
10°	2446.9	2446.6	2446.9	2449.1	2450.7	2451.0	2452.6	2450.8	2450.2	2451.5	2451.5
12.5°	2520.5	2519.0	2522.2	2523.5	2525.4	2529.4	2527.4	2530.1	2528.0	2531.3	2531.3
15°	2589.7	2590.6	2593.5	2594.7	2595.2	2598.3	2598.9	2600.8	2598.2	2598.7	2603.9
17.5°	2632.8	2632.1	2634.1	2635.1	2636.9	2638.5	2641.5	2643.2	2641.9	2641.9	2644.6
20°	2647.3	2645.2	2645.8	2646.7	2647.0	2648.6	2650.8	2651.1	2651.1	2651.6	2654.3
22.5°	2640.0	2636.8	2633.3	2633.6	2633.9	2633.5	2635.1	2635.9	2637.3	2638.6	2641.9
25°	2630.2	2622.6	2616.4	2615.8	2614.0	2614.2	2614.9	2615.1	2616.4	2618.3	2620.9
27.5°	2631.2	2621.1	2611.2	2607.6	2604.1	2601.9	2600.9	2599.4	2600.8	2602.6	2605.2
30°	2653.6	2638.0	2623.6	2619.2	2614.1	2609.6	2605.8	2601.4	2598.7	2600.7	2602.0
32.5°	2693.0	2677.6	2663.5	2656.3	2649.0	2641.2	2634.1	2629.4	2623.6	2621.6	2620.9
35°	2776.7	2764.6	2751.7	2743.7	2731.6	2725.5	2716.8	2704.0	2694.9	2694.2	2688.9
37.5°	2918.0	2912.1	2902.9	2894.4	2890.5	2874.2	2863.6	2857.1	2846.6	2853.2	2842.1
40°	3120.9	3130.7	3139.2	3134.2	3135.7	3131.5	3125.1	3131.4	3124.1	3122.2	3124.1
42.5°	3381.0	3415.5	3439.5	3447.1	3466.4	3474.0	3488.1	3510.2	3505.5	3530.3	3535.0
45°	3682.3	3731.7	3779.7	3815.4	3854.3	3898.6	3942.8	3977.9	4005.4	4004.1	4034.3
47.5°	3989.7	4062.6	4126.4	4180.2	4250.4	4315.2	4386.7	4458.8	4511.1	4530.8	4537.3
50°	4301.0	4385.1	4472.5	4551.6	4646.4	4750.2	4862.6	4975.0	5031.3	5077.1	5107.8
52.5°	4627.3	4723.7	4816.7	4928.2	5045.1	5182.3	5322.6	5482.7	5567.8	5654.2	5699.9
55°	4937.6	5045.2	5141.2	5290.5	5433.9	5597.6	5781.0	5983.3	6130.5	6231.9	6321.5
57.5°	5219.6	5334.1	5451.9	5620.3	5803.1	5994.5	6226.9	6472.6	6632.9	6809.5	6968.5
60°	5494.9	5638.9	5774.5	5994.6	6212.0	6449.8	6739.2	7050.3	7298.3	7538.4	7721.5
62.5°	5860.0	6045.0	6213.5	6490.5	6774.5	7068.4	7412.6	7780.5	8140.3	8466.1	8712.8
65°	6399.5	6671.2	6923.4	7274.2	7632.9	8019.7	8430.7	8900.5	9332.3	9763.6	10116.8
67.5°	6808.9	7153.0	7476.9	7901.0	8323.1	8771.4	9268.1	9823.1	10357.6	10843.7	11274.2
69°	6728.6	7093.6	7444.1	7877.2	8316.1	8773.9	9274.9	9865.0	10420.4	10948.3	11410.3
70°	6483.9	6864.3	7227.6	7657.3	8101.8	8560.9	9085.4	9664.8	10233.3	10796.0	11262.4
72.5°	5373.7	5755.4	6108.1	6547.9	6995.3	7477.5	7974.1	8538.7	9145.9	9747.2	10156.1
75°	3852.9	4190.2	4532.1	4903.9	5340.6	5738.0	6192.3	6731.0	7241.3	7707.9	8020.6
77.5°	2277.2	2479.2	2723.0	2898.0	3151.5	3370.3	3601.4	3900.7	4057.7	4358.6	4435.9
80°	927.9	922.2	958.5	922.7	930.6	901.3	870.1	864.3	815.3	876.7	830.9
82.5°	589.4	548.2	504.4	443.7	390.2	334.0	282.5	239.4	231.6	232.9	230.3
85°	388.2	370.4	331.0	278.3	226.9	182.0	145.7	115.2	113.9	111.8	111.3
87.5°	70.2	65.2	53.7	45.9	38.6	28.8	20.3	15.1	14.4	14.4	17.0
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: P180296

CATALOG NUMBER: ICM-E05-LED-E1-RW-8030

**CANDELA DISTRIBUTION (continued):**

	84°	85°	86°	87°	88°	89°	90°
0°	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8	2297.8
2.5°	2303.0	2303.0	2302.3	2303.6	2303.0	2301.0	2299.1
5°	2333.0	2330.4	2332.5	2334.4	2331.2	2331.8	2330.4
7.5°	2383.5	2382.8	2383.5	2381.5	2380.2	2382.2	2384.1
10°	2454.1	2452.9	2452.1	2454.2	2452.9	2451.5	2452.2
12.5°	2533.2	2533.2	2532.7	2533.2	2532.7	2530.6	2529.4
15°	2603.3	2604.7	2604.7	2603.4	2602.6	2602.0	2602.6
17.5°	2646.5	2645.8	2645.8	2645.8	2645.2	2645.8	2647.2
20°	2657.6	2655.6	2655.6	2656.9	2655.6	2656.9	2657.6
22.5°	2642.5	2642.5	2642.6	2643.2	2644.6	2644.5	2645.8
25°	2623.6	2623.6	2623.6	2624.9	2624.9	2625.6	2626.2
27.5°	2608.6	2608.6	2608.6	2609.9	2609.9	2610.4	2611.8
30°	2603.9	2603.9	2603.3	2603.9	2604.6	2604.7	2605.2
32.5°	2621.6	2619.6	2619.0	2617.7	2616.4	2616.4	2615.7
35°	2683.7	2678.5	2679.3	2675.3	2676.6	2673.3	2670.7
37.5°	2834.9	2829.6	2823.8	2815.9	2811.3	2817.2	2817.2
40°	3117.6	3120.8	3106.4	3102.5	3094.0	3099.9	3107.7
42.5°	3537.6	3541.5	3544.1	3522.5	3521.9	3517.3	3504.2
45°	4035.5	4026.4	4030.3	4020.4	4016.5	4002.1	4019.7
47.5°	4562.2	4568.0	4544.5	4536.6	4550.4	4526.8	4530.1
50°	5125.4	5126.7	5109.1	5105.1	5117.7	5073.1	5094.1
52.5°	5732.7	5735.3	5749.0	5732.7	5739.2	5728.7	5749.6
55°	6378.5	6427.4	6432.0	6449.7	6451.0	6472.6	6451.0
57.5°	7056.9	7112.4	7164.8	7236.1	7251.8	7243.4	7257.1
60°	7874.0	8020.0	8098.5	8210.3	8228.0	8276.4	8234.6
62.5°	8944.4	9171.4	9342.8	9429.2	9481.5	9582.9	9549.5
65°	10441.3	10711.5	10972.0	11096.3	11233.7	11377.6	11403.8
67.5°	11667.4	11967.7	12238.6	12453.8	12621.4	12727.3	12735.8
69°	11820.5	12139.8	12425.0	12664.5	12827.4	12936.1	12964.8
70°	11682.5	12009.0	12311.2	12539.6	12721.5	12832.1	12870.6
72.5°	10585.3	10973.9	11216.0	11448.9	11705.4	11738.7	11844.7
75°	8379.1	8727.9	8965.4	9026.8	9161.0	9329.7	9269.5
77.5°	4370.4	4522.3	4572.7	4465.3	4460.1	4558.9	4362.6
80°	832.2	833.5	819.8	814.5	824.4	814.5	800.8
82.5°	234.9	231.6	229.6	234.9	234.2	233.6	238.1
85°	108.7	105.3	100.1	100.1	102.7	98.8	100.7
87.5°	15.1	12.5	12.5	12.5	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)