

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: P180863

Luminaire Tested: **ICM-F01-LED-E1-SL4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180863  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F01-LED-E1-SL4  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2268.6 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

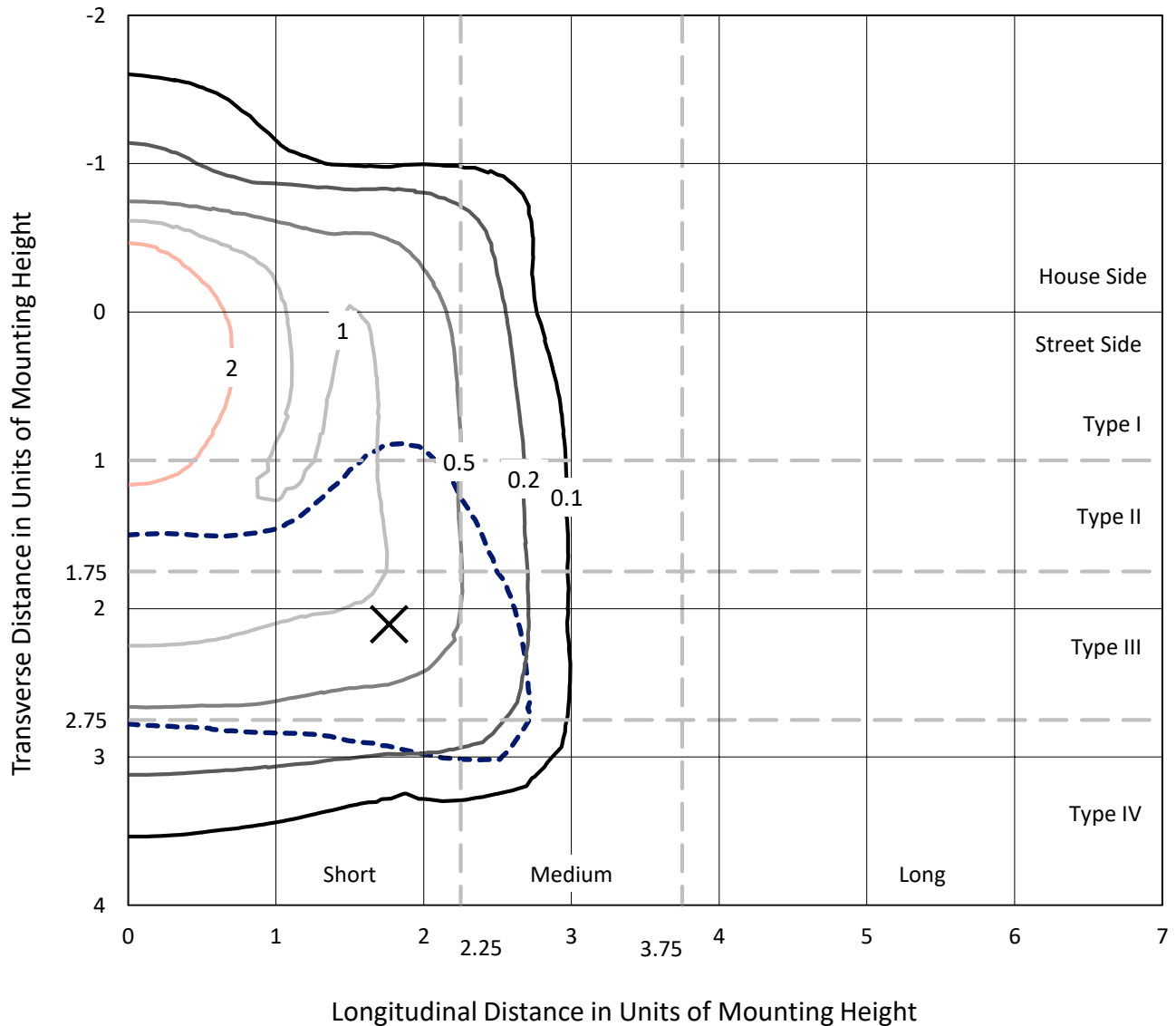
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

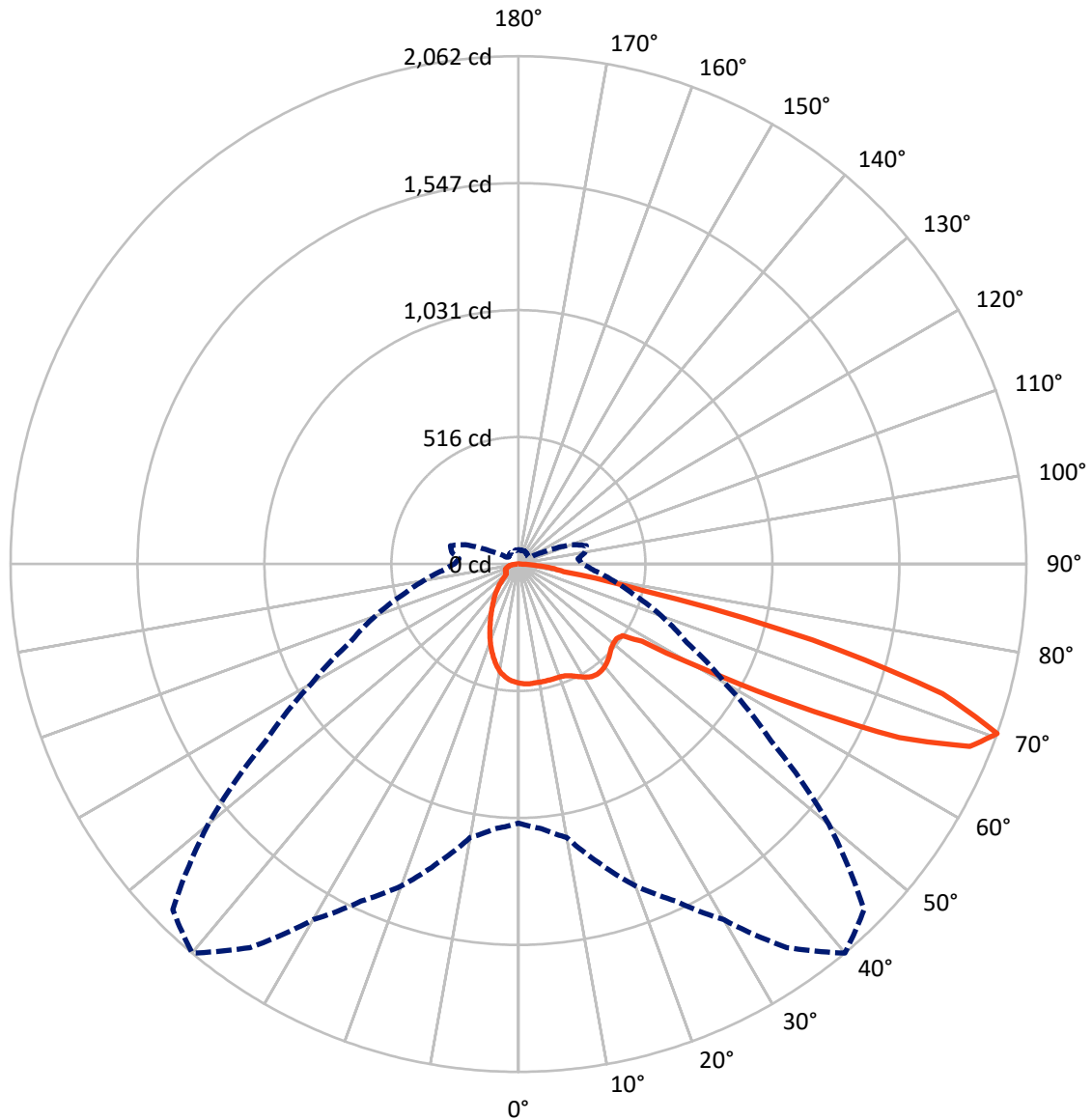
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	470.9	0.0	470.9
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	1797.6	0.0	1797.6
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	2268.6	0.0	2268.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	2.0
10°-20°	123.8	5.5
20°-30°	183.3	8.1
30°-40°	231.6	10.2
40°-50°	261.9	11.5
50°-60°	372.7	16.4
60°-70°	694.2	30.6
70°-80°	318.1	14.0
80°-90°	37.8	1.7
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°	2268.6	100.0
0°-180°	2268.6	100.0



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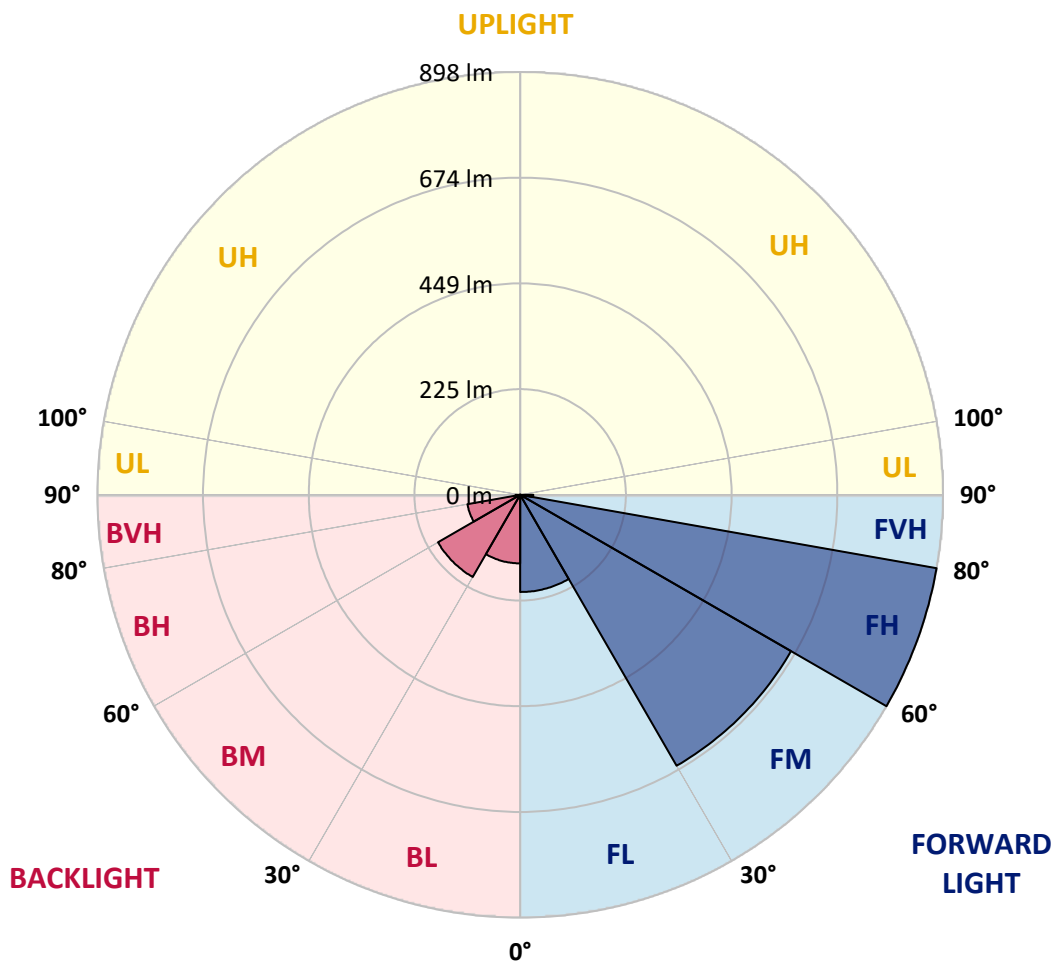
CATALOG NUMBER: ICM-F01-LED-E1-SL4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.6	9.1			
FM	(30°-60°)	664.6	29.3			
FH	(60°-80°)	898.4	39.6			G1/1800
FVH	(80°-90°)	28.0	1.2			G1/100
BL	(0°-30°)	145.7	6.4	B1/500		
BM	(30°-60°)	201.6	8.9	B0/220		
BH	(60°-80°)	113.8	5.0	B1/500		G1/500
BVH	(80°-90°)	9.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1
2.5°	491.4	492.7	491.3	491.0	491.0	490.7	489.2	488.9	486.9	487.2	487.6
5°	495.1	495.5	494.5	494.3	493.8	492.7	491.4	490.0	488.4	486.9	485.6
7.5°	498.6	498.1	497.4	497.4	496.6	495.1	492.5	490.4	487.2	485.3	483.1
10°	503.7	503.0	502.0	501.5	500.2	497.9	494.3	491.4	487.4	483.8	480.0
12.5°	508.7	508.4	506.8	506.0	504.0	501.7	497.4	493.0	487.6	482.0	476.9
15°	517.3	516.3	514.8	513.2	509.9	506.8	500.2	495.1	487.4	480.0	472.0
17.5°	532.5	530.6	529.1	525.8	521.7	516.3	506.6	497.9	487.4	476.7	467.6
20°	560.1	556.3	554.2	549.9	542.7	532.9	517.9	503.7	488.2	474.3	462.3
22.5°	591.4	588.7	586.0	583.1	571.8	557.8	537.3	516.3	492.7	473.3	458.0
25°	626.4	623.1	621.5	616.7	606.1	590.1	562.1	532.9	503.3	477.4	458.0
27.5°	657.6	656.6	656.3	650.7	640.7	621.8	588.7	553.7	517.6	485.9	461.8
30°	686.1	685.0	684.5	681.4	669.9	647.4	611.5	572.1	533.2	497.6	468.9
32.5°	716.2	712.9	711.4	705.5	692.4	666.1	625.1	584.1	545.5	509.1	476.9
35°	740.8	738.0	734.9	726.4	708.0	676.8	631.0	588.3	550.3	515.5	481.0
37.5°	758.7	755.9	751.5	740.8	718.1	680.4	630.7	587.0	548.6	514.5	481.8
40°	766.6	763.8	759.3	745.7	719.8	678.3	625.9	581.0	543.2	509.1	478.7
42.5°	763.5	761.5	755.6	742.6	714.1	669.1	616.1	570.0	532.9	500.5	471.7
45°	751.8	750.2	744.7	730.8	701.4	654.2	601.8	556.3	520.7	489.7	462.5
47.5°	734.1	733.7	728.0	714.4	685.2	639.4	587.0	542.7	508.4	479.2	454.9
50°	714.7	712.1	709.3	696.7	670.1	626.6	576.2	534.2	501.5	475.4	451.5
52.5°	702.4	701.7	699.1	687.8	662.2	619.2	571.4	531.2	500.9	474.6	449.8
55°	811.4	813.2	789.7	740.8	697.8	639.7	586.0	546.8	513.5	486.9	468.7
57.5°	1200.3	1192.4	1151.9	1054.9	945.3	800.7	696.6	633.3	592.1	596.7	605.9
60°	1398.4	1396.8	1389.4	1351.8	1278.9	1168.8	1046.7	906.7	862.1	867.0	870.6
62.5°	1487.0	1489.3	1494.9	1480.8	1461.6	1429.7	1368.8	1312.4	1252.8	1230.5	1170.9
65°	1527.9	1532.0	1544.8	1552.8	1560.2	1565.8	1589.9	1655.9	1699.5	1618.1	1428.7
67.5°	1443.2	1462.9	1505.1	1546.3	1583.3	1635.7	1717.1	1870.4	1977.2	1877.1	1602.4
70°	1052.1	1079.0	1127.4	1254.8	1391.0	1510.1	1667.7	1901.1	2062.2	1984.8	1645.4
72.5°	659.6	667.1	688.6	735.4	836.6	989.4	1265.0	1615.3	1801.0	1739.4	1390.7
75°	418.5	421.1	420.3	431.1	448.2	481.5	590.5	954.1	1233.8	1137.6	775.1
77.5°	249.3	253.1	254.7	258.0	266.2	278.0	287.0	324.6	517.3	502.2	281.3
80°	208.8	211.9	209.4	208.7	203.5	199.9	204.3	199.9	185.6	178.7	164.6
82.5°	110.6	110.3	109.6	117.0	132.1	143.8	152.8	150.8	136.5	116.2	98.5
85°	60.7	62.7	62.7	65.3	63.0	63.3	65.3	68.8	63.7	53.2	43.5
87.5°	5.1	7.9	6.4	7.9	10.8	7.7	7.4	7.4	6.4	4.7	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1
2.5°	486.3	485.9	484.8	484.1	484.1	482.8	482.0	481.5	481.2	480.2	480.2
5°	484.8	483.1	481.2	480.0	479.2	478.0	475.9	474.8	473.6	472.6	472.0
7.5°	481.5	478.1	475.4	473.3	470.7	468.7	466.1	463.8	461.5	460.5	460.0
10°	476.4	472.0	467.6	463.8	460.3	456.7	453.3	450.0	447.2	445.1	443.1
12.5°	471.5	464.8	459.3	453.6	448.0	443.6	439.0	434.1	430.0	426.2	425.2
15°	464.8	457.2	450.0	443.1	436.2	429.0	423.4	418.0	411.4	407.0	403.7
17.5°	458.7	449.5	440.8	432.6	424.2	416.7	408.3	401.1	394.4	387.8	383.0
20°	452.1	442.0	432.8	423.6	414.4	404.9	395.3	386.0	377.9	369.9	362.0
22.5°	446.1	435.9	427.0	417.0	406.8	396.0	384.7	373.2	363.7	353.5	344.3
25°	442.6	431.4	422.1	412.4	401.1	389.3	376.6	363.0	351.4	339.7	328.7
27.5°	442.6	428.0	418.5	408.8	397.3	384.7	370.7	355.8	342.8	329.7	316.1
30°	446.4	428.5	415.7	405.5	393.7	380.1	364.5	348.9	334.6	319.2	306.1
32.5°	450.0	429.5	413.7	400.6	387.1	373.8	357.9	341.2	325.3	310.8	296.9
35°	452.3	429.5	409.9	393.2	377.9	364.7	349.1	332.6	316.4	302.0	289.2
37.5°	452.6	427.4	403.7	384.7	368.7	355.1	340.2	324.6	309.2	295.9	285.1
40°	450.0	423.4	397.5	375.8	358.9	345.0	331.5	317.4	303.6	292.6	283.4
42.5°	445.4	419.1	391.6	368.7	351.0	336.7	324.1	312.0	300.0	290.5	282.9
45°	438.5	413.1	386.2	364.3	346.9	331.7	319.4	309.5	299.3	291.3	283.6
47.5°	432.4	411.1	388.1	367.1	348.9	333.3	320.7	312.3	304.4	299.0	288.5
50°	431.1	410.0	388.8	369.4	351.0	335.1	324.1	319.7	317.4	314.0	298.0
52.5°	427.4	409.9	394.4	383.7	371.9	364.5	353.0	357.1	354.5	342.8	313.6
55°	465.1	470.2	484.6	505.0	524.0	528.4	527.1	522.2	496.4	427.0	351.2
57.5°	639.4	668.4	695.5	707.5	706.0	692.4	682.7	663.0	625.6	541.1	425.4
60°	881.6	886.2	871.8	850.6	814.8	784.8	752.8	716.0	661.7	579.0	471.0
62.5°	1104.6	1042.6	978.9	919.0	864.5	816.8	772.3	720.8	650.1	563.9	465.1
65°	1262.0	1130.9	1030.3	944.3	867.3	800.7	745.1	678.3	598.7	520.9	431.1
67.5°	1343.1	1142.1	987.8	868.0	758.7	666.6	592.6	527.5	468.5	434.4	377.3
70°	1252.5	969.4	754.3	619.0	488.2	391.4	309.2	259.5	242.4	274.7	285.7
72.5°	933.3	631.0	448.7	347.1	266.0	211.9	162.5	127.7	103.9	109.0	141.6
75°	441.3	272.4	192.5	146.4	116.5	96.5	78.9	72.2	60.4	50.1	47.1
77.5°	171.7	125.2	103.4	75.8	53.8	43.3	36.8	35.5	36.4	35.3	34.8
80°	130.8	88.6	55.5	40.7	35.1	31.0	27.3	26.3	26.9	28.2	29.4
82.5°	72.9	45.6	33.8	29.4	26.3	22.5	20.5	19.0	19.2	20.7	23.5
85°	28.2	22.0	20.2	19.4	18.1	14.6	12.6	12.8	14.6	17.4	17.4
87.5°	3.1	3.1	4.1	3.1	3.1	3.1	2.8	3.3	3.6	4.7	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1	484.1
2.5°	479.7	479.7	479.7	479.2	479.4	478.4	478.4	477.7	479.0	478.1	478.0
5°	472.3	472.0	471.0	471.0	471.0	471.0	471.7	469.7	471.3	471.3	470.5
7.5°	459.7	459.7	456.9	458.4	458.0	458.7	459.7	458.7	460.3	461.3	460.5
10°	442.3	442.3	440.0	441.9	441.0	442.9	444.7	443.6	444.7	446.1	446.7
12.5°	423.2	422.1	420.1	420.8	420.8	421.9	422.6	423.9	425.2	427.3	428.3
15°	400.8	399.4	396.7	396.7	395.3	395.7	397.3	397.8	400.4	403.2	406.5
17.5°	378.0	374.2	371.4	368.1	365.5	367.6	369.4	370.7	372.7	377.0	379.4
20°	356.6	348.9	343.5	339.2	336.4	337.7	339.9	341.5	343.3	344.3	345.0
22.5°	335.4	326.6	319.2	313.9	309.2	310.5	309.5	308.7	310.0	306.7	306.4
25°	316.9	306.7	296.7	290.2	284.7	282.9	277.5	276.2	272.7	269.8	267.7
27.5°	303.6	290.2	279.3	271.8	262.9	256.3	249.3	242.4	238.6	234.0	231.6
30°	293.1	279.0	266.0	253.4	241.7	231.4	222.2	213.2	207.1	200.5	196.1
32.5°	283.4	270.3	254.4	237.3	221.4	209.9	197.9	187.6	177.9	169.2	162.8
35°	276.7	262.1	241.9	220.9	203.0	189.4	176.7	162.0	150.2	139.0	132.1
37.5°	273.1	255.2	230.4	207.1	187.2	171.7	155.9	139.0	124.7	114.1	103.6
40°	270.3	248.3	220.2	194.8	173.8	155.3	136.9	117.0	101.1	90.1	82.0
42.5°	267.3	240.7	211.2	185.1	161.8	140.3	118.0	96.7	81.7	74.0	70.4
45°	263.9	234.0	202.7	175.8	150.0	123.9	98.3	78.6	69.6	67.1	67.1
47.5°	263.2	229.6	196.6	166.9	136.7	104.9	80.1	67.8	65.3	65.8	66.8
50°	266.2	228.4	191.3	156.4	119.1	85.0	67.8	63.7	64.3	65.8	67.3
52.5°	273.7	229.4	185.6	141.8	98.0	70.1	62.7	62.4	64.0	66.3	67.8
55°	286.1	229.4	174.8	120.1	78.3	63.0	60.9	62.0	64.0	66.0	67.3
57.5°	313.0	227.1	155.9	96.0	65.5	60.4	60.4	61.7	63.4	65.5	66.5
60°	345.0	224.0	129.3	74.2	59.2	58.3	60.2	61.7	63.3	65.0	66.0
62.5°	347.1	216.0	102.4	61.4	55.8	57.1	59.9	62.0	62.4	63.7	65.0
65°	319.0	188.4	81.4	55.1	54.2	56.3	59.2	60.7	60.9	61.4	62.7
67.5°	279.3	153.6	65.8	52.0	52.7	55.1	56.6	57.9	58.6	59.9	60.2
70°	229.4	123.3	56.3	48.9	49.7	52.2	53.5	54.8	56.3	57.9	57.1
72.5°	162.5	96.0	49.4	45.6	46.6	48.9	50.4	51.4	52.7	54.2	53.2
75°	69.1	67.1	42.8	41.2	42.8	44.3	45.9	47.3	48.7	49.4	49.4
77.5°	35.3	39.4	36.8	36.8	37.9	39.4	40.7	42.2	43.0	43.8	44.8
80°	30.0	30.4	31.0	32.0	33.0	34.5	35.8	37.1	37.4	37.7	38.1
82.5°	24.8	25.9	26.3	27.9	28.7	29.2	30.0	30.0	30.4	30.4	29.7
85°	18.0	19.2	20.0	20.2	20.0	20.2	20.5	21.0	22.2	22.2	21.2
87.5°	5.1	4.8	6.1	6.4	6.9	7.9	8.9	10.8	11.3	11.8	11.8
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: P180863

CATALOG NUMBER: ICM-F01-LED-E1-SL4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	484.1	484.1	484.1	484.1
2.5°	477.7	478.1	477.1	477.4
5°	470.5	471.5	470.2	471.7
7.5°	461.3	462.8	462.5	462.3
10°	448.0	450.0	450.0	450.8
12.5°	431.1	432.4	433.4	433.9
15°	408.3	410.6	411.9	411.9
17.5°	380.9	382.4	383.2	382.1
20°	346.0	345.6	345.9	343.3
22.5°	305.9	306.7	304.4	304.8
25°	266.5	265.2	266.2	264.7
27.5°	228.4	228.6	225.8	227.1
30°	192.0	190.7	187.2	188.9
32.5°	156.9	153.6	149.8	147.4
35°	123.9	118.8	117.0	116.2
37.5°	97.3	91.6	89.9	87.8
40°	77.3	75.3	74.5	75.0
42.5°	69.4	69.4	69.9	70.1
45°	67.3	68.1	68.8	69.1
47.5°	67.5	68.4	69.4	69.6
50°	68.1	68.8	69.6	69.9
52.5°	68.4	68.4	68.8	69.1
55°	67.8	67.5	67.8	68.1
57.5°	66.8	66.3	66.5	67.3
60°	66.3	65.5	66.0	66.5
62.5°	65.0	64.7	65.3	65.5
65°	62.2	62.4	63.3	63.3
67.5°	59.6	59.9	60.2	60.4
70°	56.6	56.8	57.3	57.6
72.5°	53.0	54.0	54.8	55.8
75°	50.1	51.2	52.7	53.8
77.5°	45.3	46.0	47.9	49.1
80°	38.4	38.1	38.4	39.2
82.5°	29.4	29.4	29.2	28.9
85°	20.7	20.5	19.7	19.7
87.5°	11.3	11.0	10.8	10.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)