

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: P180772

Luminaire Tested: **ICM-F02-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180772
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-SL4-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2854.4 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

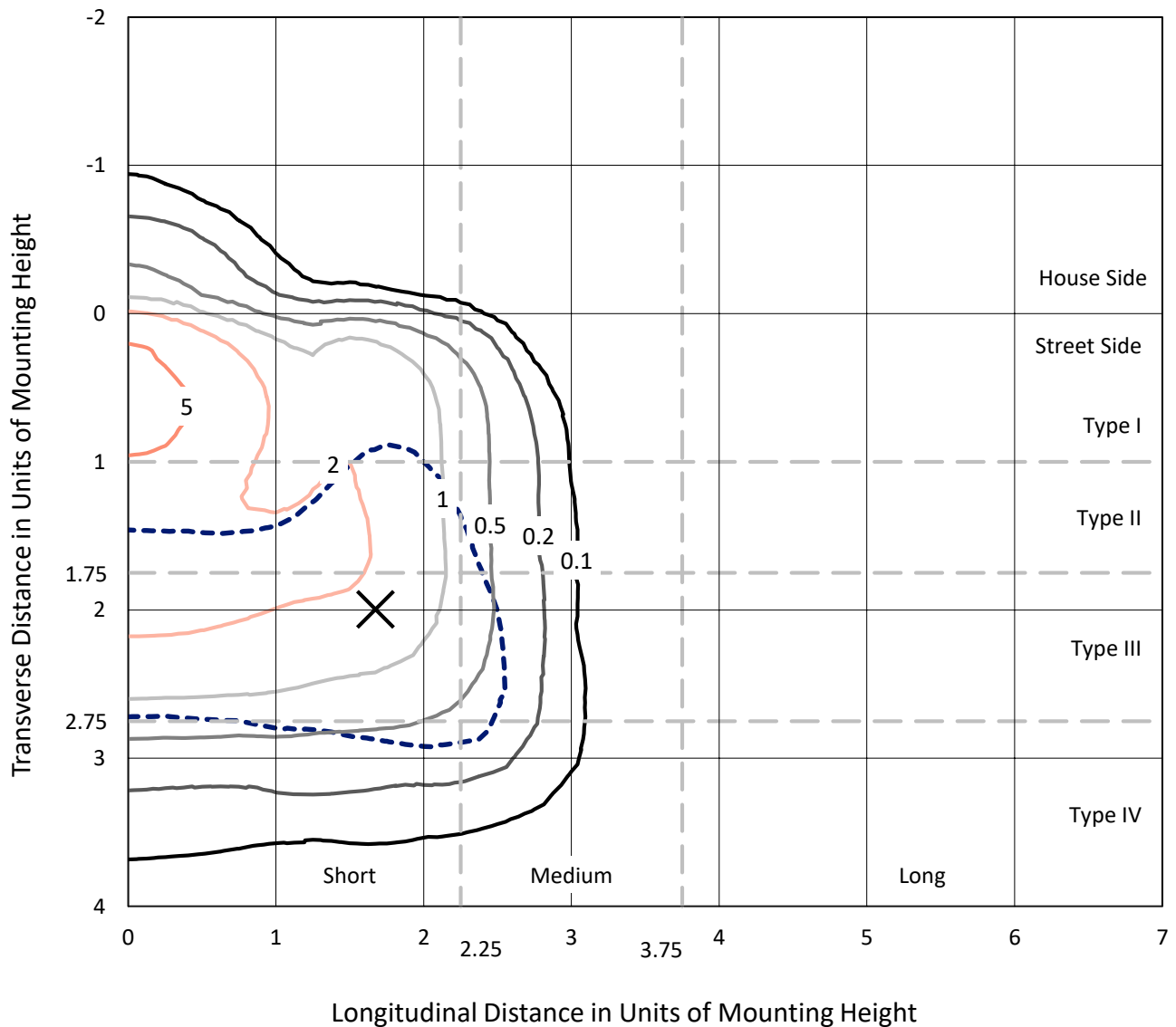
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180772
 CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

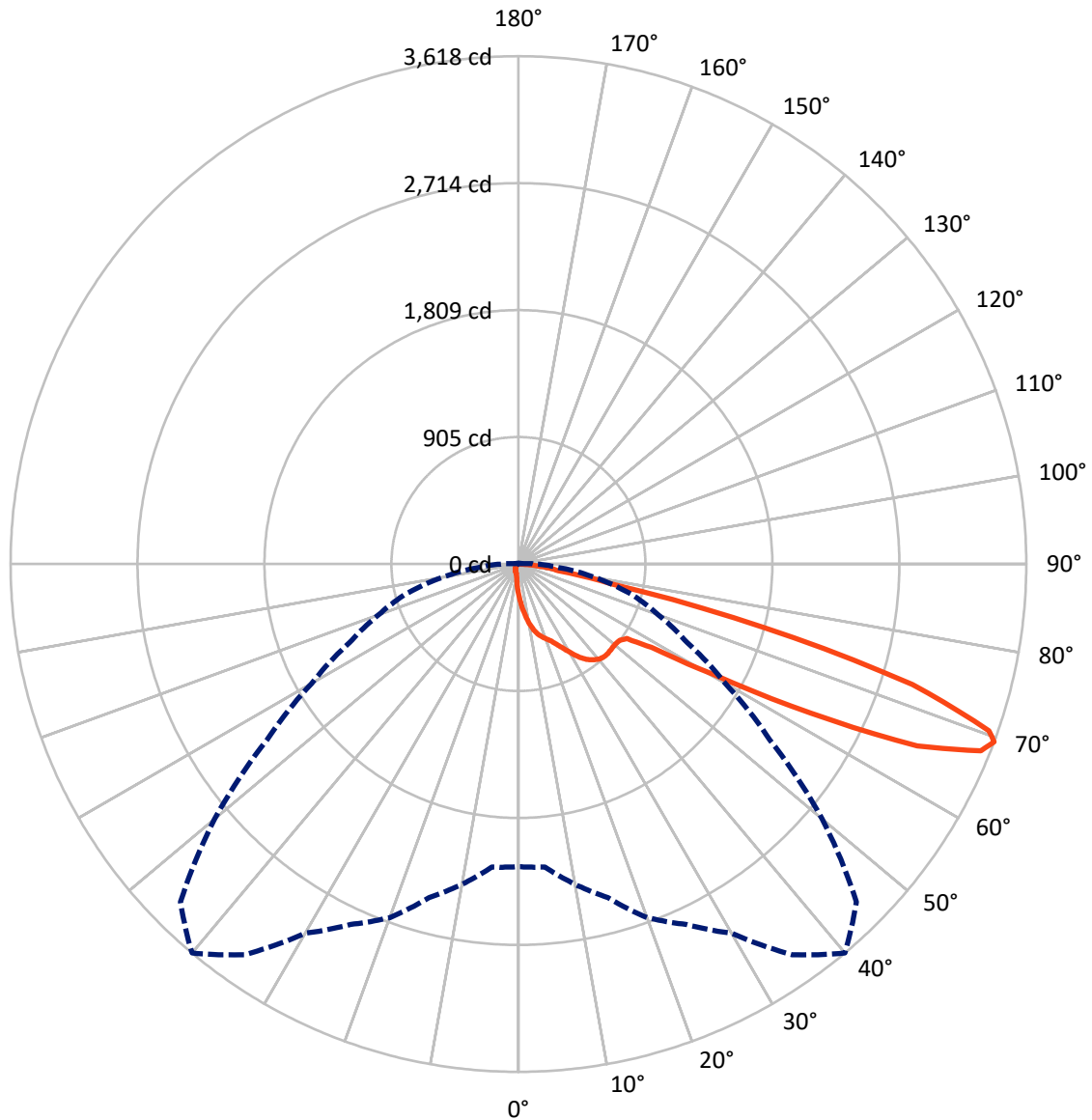
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180772
CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P180772

CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

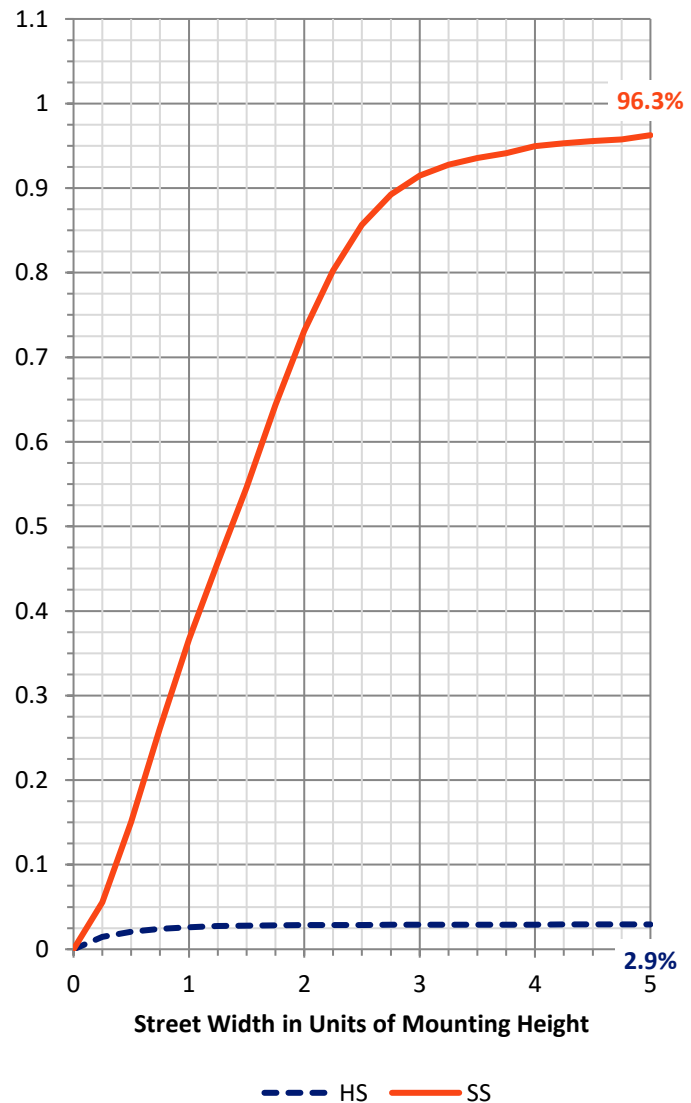
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	85.0	0.0	85.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	2769.4	0.0	2769.4
	% Fixture	97.0	0.0	97.0
Total	Lumens	2854.4	0.0	2854.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.8
10°-20°	76.4	2.7
20°-30°	146.2	5.1
30°-40°	243.1	8.5
40°-50°	329.0	11.5
50°-60°	514.5	18.0
60°-70°	1057.9	37.1
70°-80°	425.7	14.9
80°-90°	39.4	1.4
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°	2854.4	100.0
0°-180°	2854.4	100.0



REPORT NUMBER: P180772

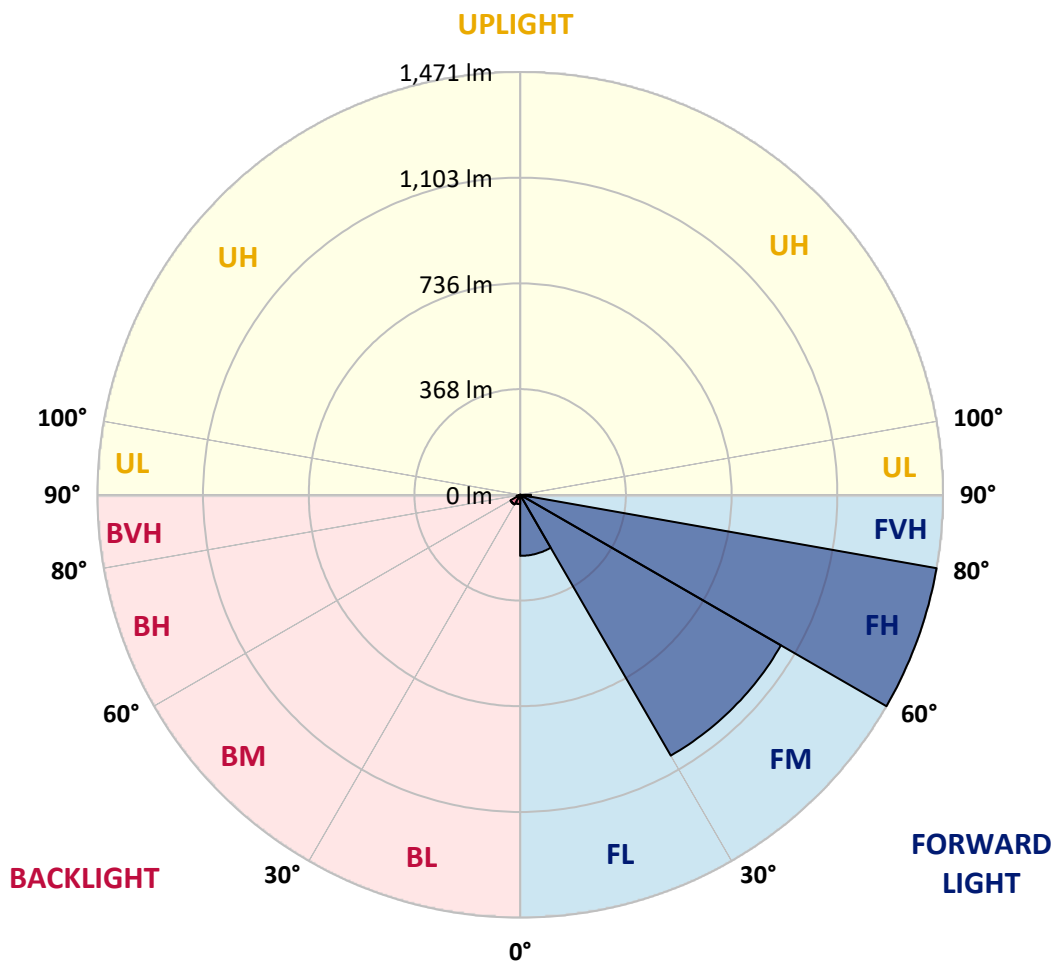
CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.4	7.4			
FM	(30°-60°)	1047.9	36.7			
FH	(60°-80°)	1471.2	51.5			G1/1800
FVH	(80°-90°)	37.9	1.3			G1/100
BL	(0°-30°)	32.3	1.1	B0/110		
BM	(30°-60°)	38.8	1.4	B0/220		
BH	(60°-80°)	12.4	0.4	B0/110		G0/110
BVH	(80°-90°)	1.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





REPORT NUMBER: P180772

CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5
2.5°	287.5	284.3	280.6	280.6	275.9	275.9	273.1	265.6	264.7	260.5	256.3
5°	367.1	364.3	359.5	355.4	351.6	345.1	340.4	331.5	321.7	312.4	303.9
7.5°	444.7	443.3	434.9	433.5	427.4	416.7	407.3	394.1	377.3	364.3	348.8
10°	516.7	513.4	511.5	503.6	494.7	483.1	468.6	452.7	433.0	412.4	390.4
12.5°	573.8	571.9	563.4	560.2	550.8	539.2	520.9	500.3	480.7	454.0	428.3
15°	616.3	613.0	607.4	602.2	591.1	580.7	563.9	541.5	517.6	488.7	457.8
17.5°	651.8	645.8	644.4	636.4	624.7	612.6	593.9	573.3	545.2	516.2	482.5
20°	699.5	691.1	688.3	676.7	663.1	646.2	624.7	599.0	569.5	537.8	503.2
22.5°	755.6	749.6	743.4	733.2	715.9	692.0	660.7	632.7	595.3	560.2	522.8
25°	835.2	830.0	820.2	806.1	784.7	756.1	718.2	677.1	633.1	588.2	544.3
27.5°	912.3	907.6	900.6	889.9	865.5	834.1	787.4	735.1	679.4	625.2	576.6
30°	984.8	980.6	973.5	962.8	941.3	910.4	857.6	801.5	732.3	669.1	610.7
32.5°	1062.9	1061.4	1053.5	1038.1	1019.4	977.8	920.2	859.9	789.8	716.8	648.6
35°	1151.3	1140.5	1133.0	1117.6	1085.8	1041.3	974.0	908.1	834.1	759.4	683.2
37.5°	1226.1	1215.7	1206.4	1186.8	1147.9	1091.4	1015.2	942.7	866.4	790.2	712.7
40°	1280.8	1275.6	1264.4	1238.7	1195.2	1127.8	1045.6	966.5	889.9	813.1	736.5
42.5°	1321.4	1313.5	1300.8	1274.2	1222.8	1146.1	1057.7	976.4	900.6	827.2	751.9
45°	1336.4	1329.9	1318.1	1289.1	1233.5	1151.3	1057.2	973.5	901.0	831.4	762.1
47.5°	1327.5	1320.9	1310.7	1283.5	1228.8	1145.1	1048.8	965.6	896.4	832.7	771.5
50°	1298.1	1294.3	1286.3	1263.4	1214.3	1133.5	1041.3	961.4	895.4	839.8	784.7
52.5°	1295.3	1292.9	1283.1	1260.2	1210.1	1129.7	1040.4	963.7	903.4	848.7	794.0
55°	1582.8	1549.6	1475.3	1412.1	1308.3	1184.8	1087.6	1001.6	937.0	883.7	845.4
57.5°	2249.6	2200.0	2102.3	1982.2	1743.6	1509.4	1321.9	1186.3	1119.4	1095.1	1109.6
60°	2562.0	2553.0	2537.6	2480.6	2358.5	2157.0	1932.6	1689.9	1592.7	1584.2	1613.7
62.5°	2710.2	2704.6	2709.2	2702.2	2664.4	2605.4	2540.9	2436.2	2339.8	2277.7	2145.8
65°	2778.4	2782.2	2808.9	2829.9	2834.5	2850.0	2897.2	3027.6	3123.1	2962.7	2596.6
67.5°	2604.9	2627.0	2688.2	2764.9	2854.7	2941.6	3081.9	3356.9	3552.8	3364.4	2844.4
69°	2156.6	2167.3	2316.9	2461.4	2680.8	2834.1	3037.5	3398.0	3618.3	3405.5	2824.8
70°	1697.9	1707.6	1868.0	2064.5	2435.3	2632.6	2898.6	3328.4	3557.0	3350.8	2723.7
72.5°	766.0	751.9	808.5	913.7	1316.8	1630.1	2095.3	2696.7	2934.6	2684.5	2037.8
75°	534.9	528.8	534.9	535.4	598.1	771.5	973.5	1461.7	1807.7	1559.9	973.5
77.5°	414.3	410.0	405.9	401.2	408.7	457.8	477.4	518.6	673.3	636.8	371.3
80°	327.8	324.0	334.3	331.1	331.1	336.7	332.9	317.5	288.5	267.4	239.4
82.5°	152.5	153.4	153.4	166.4	200.6	234.2	245.0	229.6	203.9	173.5	139.8
85°	14.5	16.4	27.6	42.5	84.7	95.3	95.8	79.5	79.5	62.7	50.5
87.5°	0.0	0.5	0.5	0.5	4.2	11.7	9.9	2.8	1.4	1.4	2.3
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: P180772

CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5
2.5°	248.7	247.4	241.8	236.1	231.0	225.4	220.3	215.1	209.5	205.3	200.1
5°	290.9	280.6	268.8	257.7	246.4	234.7	222.6	211.8	200.6	190.3	180.5
7.5°	333.4	313.3	297.4	277.3	259.1	240.8	224.0	206.7	190.8	175.8	161.8
10°	369.4	345.1	320.3	294.6	268.4	244.1	220.7	200.1	179.1	160.8	143.5
12.5°	398.9	368.0	337.6	305.3	275.9	245.0	216.0	191.3	166.4	145.9	128.1
15°	425.5	390.0	353.5	316.1	278.7	243.6	211.4	180.5	155.3	131.9	111.7
17.5°	447.0	406.3	365.2	323.1	282.9	241.8	205.3	173.0	143.5	119.3	99.6
20°	465.8	423.2	378.8	331.5	285.7	241.3	200.1	163.6	133.3	107.5	88.4
22.5°	483.1	440.5	392.7	342.2	290.0	240.8	195.4	156.7	124.4	98.7	79.5
25°	502.7	457.8	407.7	353.5	297.4	242.7	192.7	151.1	116.5	90.2	72.5
27.5°	524.7	477.4	425.5	367.5	307.2	246.4	191.7	144.9	109.4	82.3	66.9
30°	555.5	500.8	443.3	381.6	316.1	250.6	190.8	141.2	102.4	76.2	61.2
32.5°	582.6	523.7	462.9	396.1	326.0	254.9	190.3	136.1	95.8	70.1	57.0
35°	611.2	544.7	479.7	410.0	334.3	259.5	189.9	132.4	89.8	64.1	52.8
37.5°	635.9	562.5	492.8	422.2	343.7	263.7	190.3	129.0	84.2	58.9	49.1
40°	656.9	580.7	507.4	433.5	353.5	270.2	190.8	125.8	78.5	54.2	45.9
42.5°	675.6	598.1	522.8	446.0	364.7	277.8	193.6	123.0	73.9	50.0	42.5
45°	690.1	614.0	539.6	463.8	383.0	290.0	198.7	121.1	69.2	46.3	39.7
47.5°	705.1	637.3	568.1	491.9	409.6	309.1	207.6	120.7	65.5	43.4	37.4
50°	725.7	660.7	593.4	520.5	434.0	328.7	218.3	121.1	60.7	40.7	35.1
52.5°	740.7	684.6	626.1	570.0	491.9	388.6	260.0	129.5	58.4	38.3	32.3
55°	829.0	819.3	820.7	830.0	769.7	661.2	434.9	187.1	68.7	43.4	31.8
57.5°	1169.0	1203.6	1223.7	1223.3	1123.6	931.9	584.0	240.4	76.7	50.5	37.9
60°	1616.0	1589.9	1552.8	1461.7	1329.4	1063.8	653.2	258.6	66.4	40.2	34.6
62.5°	2011.2	1857.8	1721.7	1574.0	1400.5	1109.6	667.3	257.2	58.0	30.4	24.3
65°	2257.6	1981.7	1761.9	1576.8	1372.4	1071.3	631.3	236.1	49.1	24.7	20.1
67.5°	2316.5	1914.8	1603.8	1367.7	1146.5	833.7	463.4	177.7	38.3	20.6	17.8
69°	2187.9	1702.1	1328.9	1060.9	834.1	553.1	286.6	112.2	29.5	18.7	16.4
70°	2012.6	1480.4	1082.5	851.4	617.7	388.6	200.6	79.0	23.8	17.3	15.0
72.5°	1294.8	777.6	532.1	370.3	254.9	154.8	78.5	35.5	18.2	14.5	12.2
75°	502.2	287.5	208.6	158.5	123.9	86.0	47.7	22.9	15.4	12.2	9.4
77.5°	247.4	189.4	154.8	106.1	61.8	38.3	25.7	17.8	12.7	8.9	6.0
80°	195.4	130.0	77.6	48.2	36.5	27.6	19.6	14.5	9.4	5.6	4.2
82.5°	100.1	54.7	40.2	32.7	27.2	21.5	15.9	10.3	6.0	3.7	3.3
85°	31.3	22.9	20.6	20.1	18.7	15.4	11.3	6.5	3.7	2.3	2.3
87.5°	2.3	3.3	4.2	3.3	3.7	3.3	4.2	2.8	1.9	1.9	1.4
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: P180772

CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5	215.5
2.5°	196.4	190.8	185.7	182.3	176.3	174.0	171.6	170.7	166.4	167.4	163.6
5°	171.6	161.8	154.3	146.8	139.8	134.7	130.4	125.3	121.1	119.3	115.5
7.5°	149.1	136.6	126.7	118.8	110.3	103.8	98.2	94.4	90.7	87.0	85.1
10°	129.5	116.0	104.7	96.8	88.8	83.3	79.0	76.2	73.9	72.5	72.0
12.5°	111.3	98.2	87.9	80.9	74.8	72.0	70.1	68.7	68.3	67.8	67.8
15°	97.3	84.2	76.2	71.1	68.3	66.9	66.4	65.5	64.6	64.1	64.1
17.5°	84.2	74.3	68.7	66.0	64.6	63.6	62.7	61.8	60.7	60.3	60.3
20°	75.3	67.3	64.6	62.7	61.2	60.3	58.9	58.0	57.5	57.0	56.6
22.5°	68.3	63.2	61.2	59.8	58.0	56.6	55.6	54.7	53.8	53.3	52.8
25°	63.2	59.8	58.4	56.6	54.7	53.3	51.9	50.5	49.6	49.1	48.2
27.5°	59.3	57.0	55.2	52.8	51.0	49.6	48.2	46.8	45.9	44.9	44.5
30°	56.1	53.8	51.4	49.6	47.3	45.9	44.0	42.5	42.0	41.1	40.2
32.5°	52.8	50.5	48.2	45.9	43.4	41.6	40.7	38.8	37.9	37.4	36.5
35°	49.1	46.8	44.0	42.0	39.7	37.9	36.5	35.1	34.1	33.2	32.7
37.5°	45.9	43.0	40.2	37.9	36.0	34.1	32.7	31.3	30.4	29.5	29.0
40°	42.0	39.3	36.5	34.1	32.3	30.9	29.5	28.1	27.2	26.7	26.7
42.5°	38.8	35.5	32.7	30.9	29.5	27.6	26.1	24.7	24.3	23.8	24.3
45°	35.5	32.3	30.0	28.1	26.7	24.7	23.3	22.4	22.0	22.4	22.9
47.5°	32.7	29.5	27.2	25.7	24.3	22.9	21.5	20.6	20.6	21.5	22.4
50°	30.0	26.7	24.7	23.8	22.4	21.0	19.2	18.7	19.2	20.1	21.0
52.5°	27.2	23.3	22.0	21.5	20.1	18.7	17.3	16.8	17.3	18.2	17.8
55°	24.3	20.6	20.1	19.6	18.2	16.4	15.0	15.0	15.0	14.5	13.6
57.5°	23.3	18.2	17.8	17.3	15.9	14.0	13.1	12.2	11.7	10.3	9.9
60°	24.3	16.4	16.4	15.4	14.0	12.2	10.8	9.4	8.4	7.4	7.4
62.5°	19.6	15.0	14.5	13.6	11.7	9.9	8.4	7.0	6.5	6.0	6.0
65°	15.9	13.6	12.7	11.3	9.9	7.9	6.5	5.6	5.1	5.1	5.6
67.5°	14.5	12.2	10.8	9.4	7.9	6.0	5.1	4.7	4.7	5.1	5.1
69°	13.6	11.3	9.9	8.4	7.0	5.6	4.7	4.7	4.7	4.7	5.1
70°	12.7	10.8	9.4	7.9	6.0	4.7	4.2	4.2	4.7	4.7	5.1
72.5°	9.9	8.4	7.9	6.5	4.7	4.2	3.7	4.2	4.2	4.7	4.7
75°	7.4	6.0	6.0	5.1	3.7	3.3	3.3	3.7	3.7	4.2	4.2
77.5°	5.1	4.2	4.2	3.7	3.3	2.8	2.8	3.3	3.7	3.7	4.2
80°	3.7	3.3	2.8	3.3	2.8	2.3	2.8	3.3	3.3	3.7	3.7
82.5°	2.8	2.8	2.8	2.8	2.3	2.3	2.8	2.8	3.3	3.7	3.7
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	3.3	3.3
87.5°	1.4	1.4	1.4	1.9	1.9	2.3	2.3	2.3	2.3	2.8	2.8
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: P180772

CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	215.5	215.5	215.5	215.5
2.5°	162.7	162.2	160.4	160.8
5°	114.0	111.3	113.1	112.7
7.5°	83.7	83.3	82.8	83.7
10°	71.5	71.5	71.1	71.5
12.5°	67.3	67.3	67.3	67.3
15°	64.1	64.1	63.6	63.6
17.5°	60.3	60.3	60.3	59.8
20°	56.6	56.1	56.1	56.1
22.5°	52.4	51.9	51.9	51.9
25°	48.2	47.7	47.7	47.7
27.5°	44.0	43.4	43.0	43.0
30°	39.7	39.3	38.8	38.8
32.5°	35.5	35.1	34.6	34.6
35°	31.8	31.8	31.3	30.9
37.5°	28.6	28.6	28.6	28.6
40°	26.1	26.7	26.7	26.7
42.5°	24.7	25.2	25.7	26.1
45°	23.8	24.7	25.2	25.2
47.5°	23.3	23.8	24.3	24.3
50°	21.5	21.0	21.0	21.0
52.5°	17.3	16.4	15.9	15.4
55°	12.7	12.2	11.3	11.3
57.5°	8.9	8.9	8.4	8.4
60°	7.0	7.0	6.5	7.0
62.5°	6.0	6.0	6.0	6.0
65°	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6
69°	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1
72.5°	4.7	4.7	4.7	4.7
75°	4.2	4.7	4.7	4.7
77.5°	4.2	4.2	4.2	4.2
80°	3.7	3.7	4.2	4.2
82.5°	3.7	3.7	3.7	3.7
85°	3.3	3.3	3.7	3.7
87.5°	2.8	2.8	3.3	3.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)