

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: P181623

Luminaire Tested: **ICM-F01-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181623
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
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-T4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2119.6 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
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

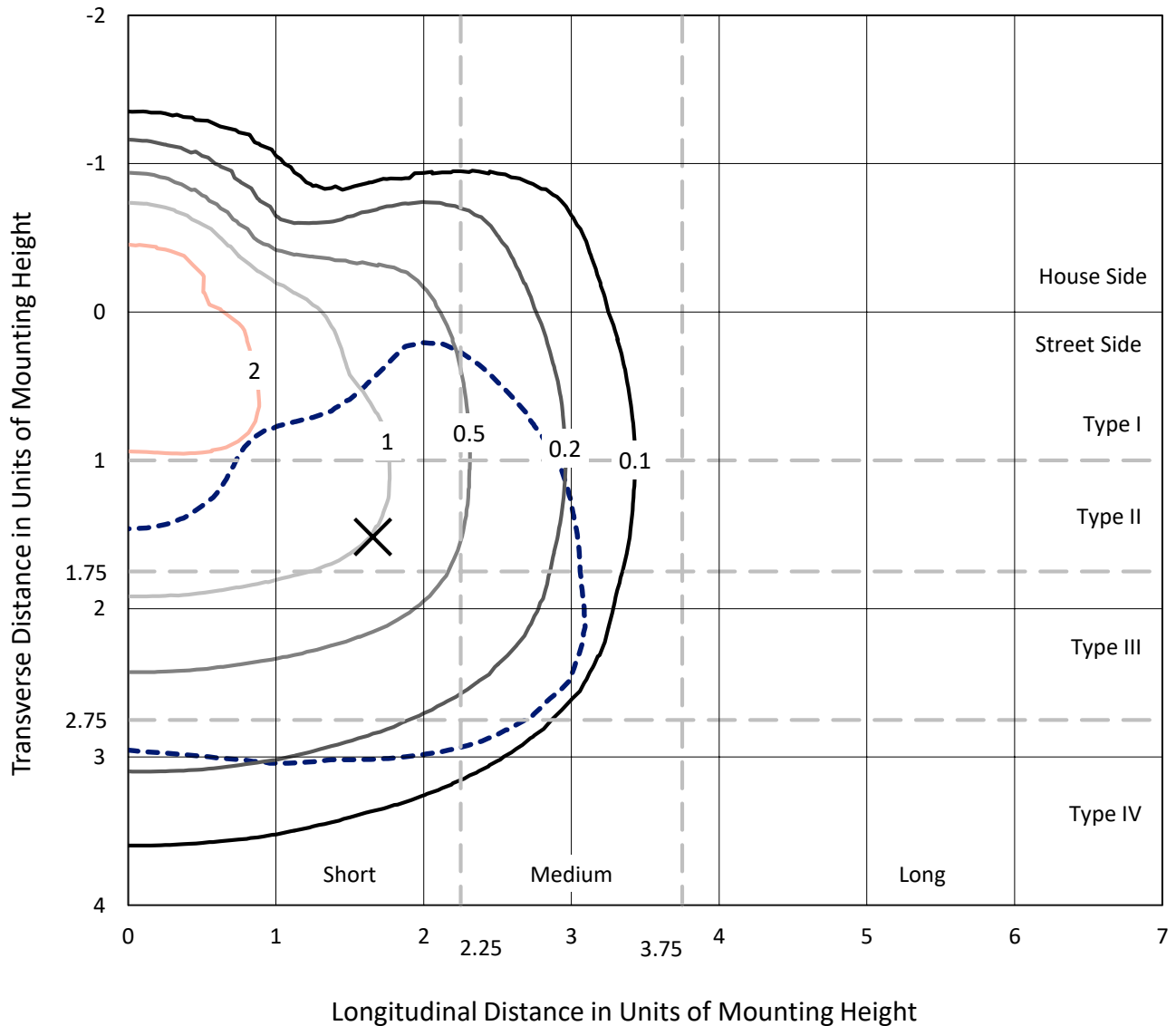


REPORT NUMBER: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

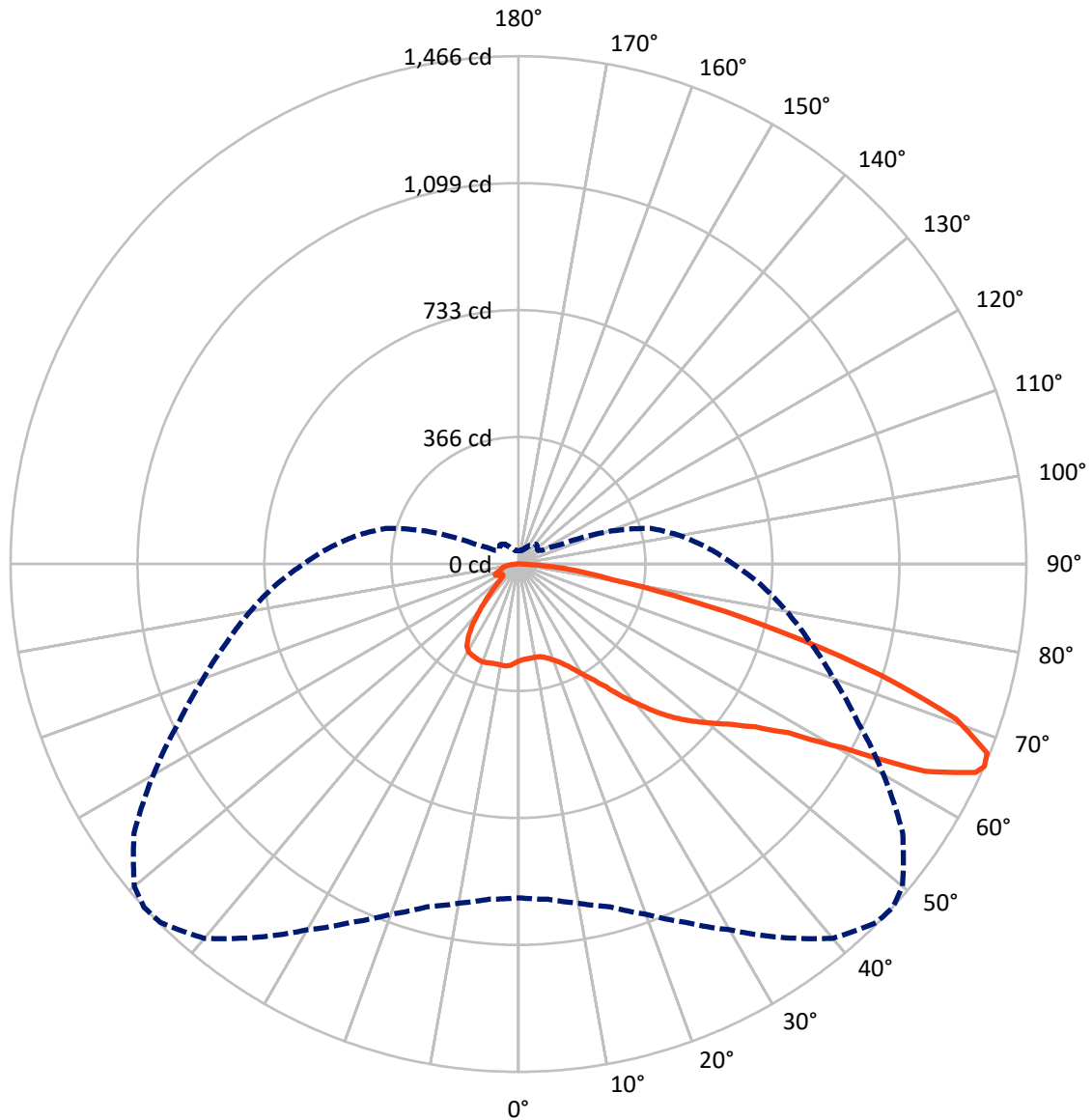


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

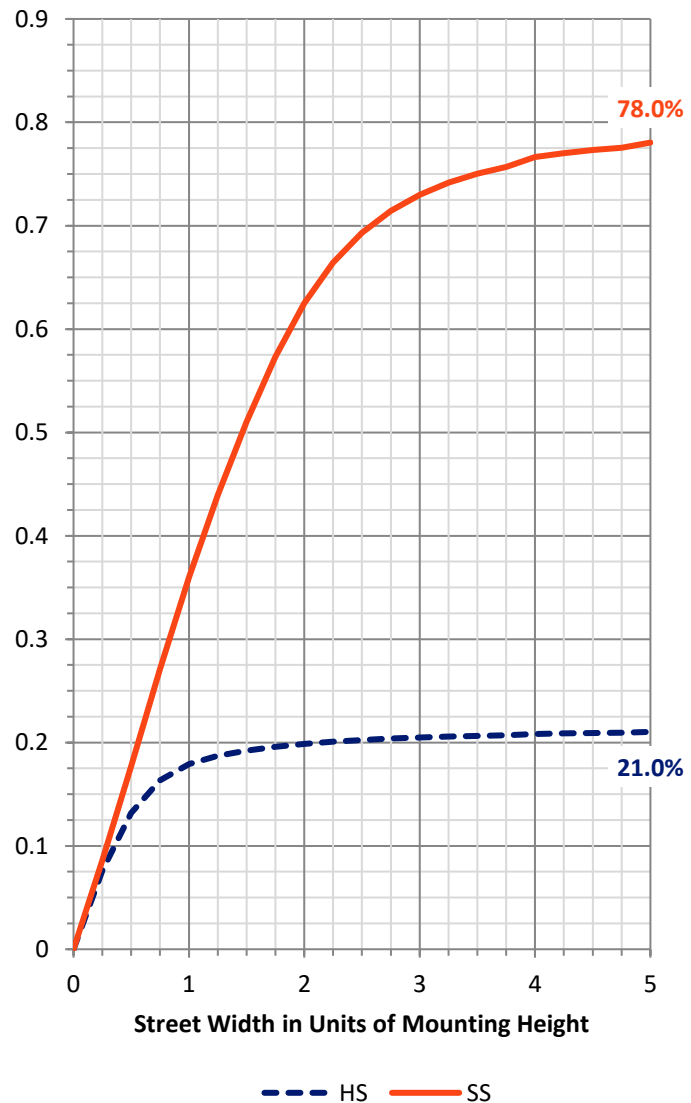
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	452.3	0.0	452.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	1667.4	0.0	1667.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	2119.6	0.0	2119.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	1.3
10°-20°	82.4	3.9
20°-30°	141.9	6.7
30°-40°	214.7	10.1
40°-50°	278.2	13.1
50°-60°	383.6	18.1
60°-70°	596.0	28.1
70°-80°	346.6	16.3
80°-90°	49.3	2.3
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°	2119.6	100.0
0°-180°	2119.6	100.0



REPORT NUMBER: P181623

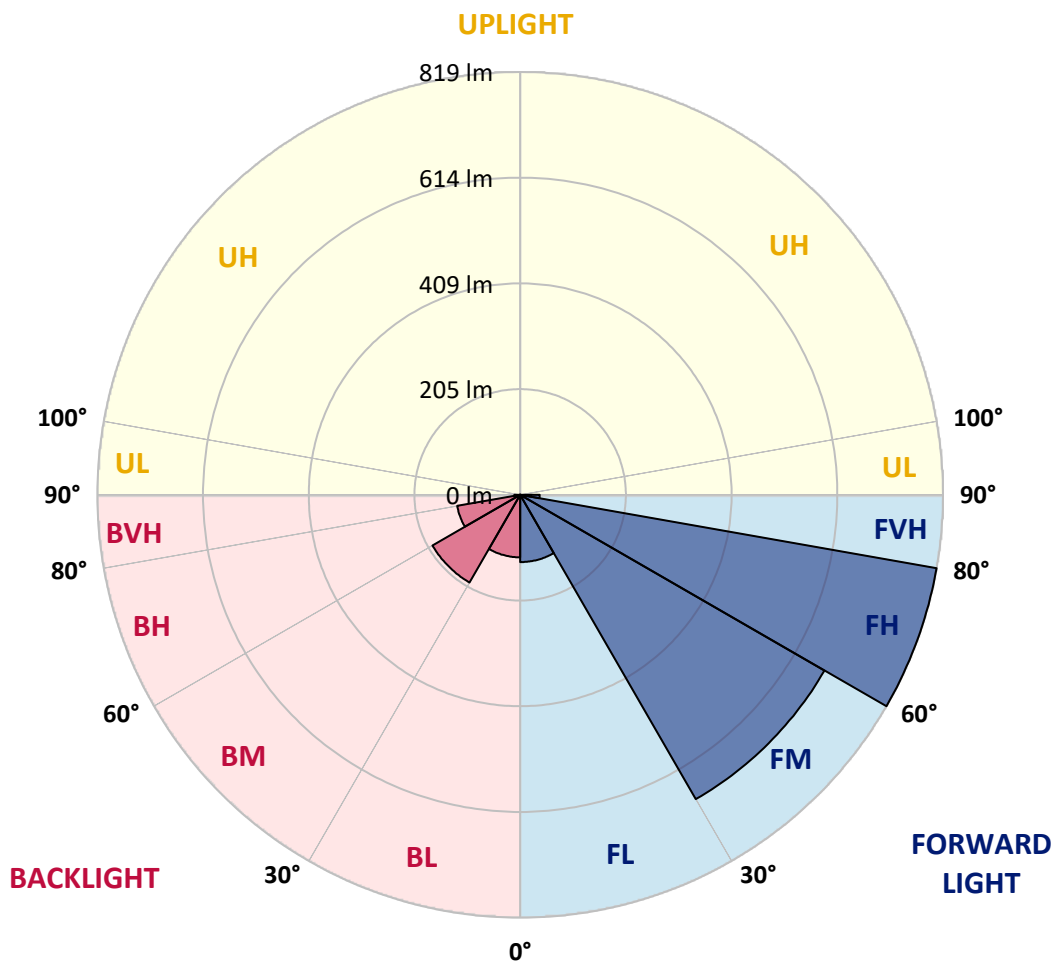
CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.3	6.1			
FM	(30°-60°)	680.4	32.1			
FH	(60°-80°)	818.8	38.6			G1/1800
FVH	(80°-90°)	37.8	1.8			G1/100
BL	(0°-30°)	121.1	5.7	B1/500		
BM	(30°-60°)	196.1	9.2	B0/220		
BH	(60°-80°)	123.7	5.8	B1/500		G1/500
BVH	(80°-90°)	11.5	0.5			G1/100
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





REPORT NUMBER: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4
2.5°	274.2	275.2	274.5	274.7	274.7	275.0	275.0	275.2	275.0	275.6	276.1
5°	269.3	269.8	269.6	270.0	270.5	271.4	271.2	272.4	272.7	273.3	274.5
7.5°	267.4	267.0	267.3	267.9	268.4	268.8	269.3	270.2	271.0	272.7	273.6
10°	269.3	269.1	269.3	269.8	269.8	270.0	269.6	270.5	271.0	272.4	273.3
12.5°	277.0	277.0	276.6	276.6	276.1	275.6	274.5	273.8	273.6	273.8	274.2
15°	289.4	288.9	288.0	287.4	286.4	284.7	283.2	281.8	280.7	279.4	278.9
17.5°	301.6	300.9	300.0	299.1	297.9	296.2	293.7	292.0	289.4	287.8	286.9
20°	315.6	314.2	313.0	311.9	309.6	309.1	306.5	303.7	300.7	296.9	296.5
22.5°	333.9	331.5	330.1	329.4	327.1	326.4	322.1	318.2	314.4	309.6	308.4
25°	352.4	350.0	349.3	348.4	346.7	345.8	341.8	337.4	332.5	325.7	324.3
27.5°	370.3	370.6	368.7	369.4	368.9	367.3	363.4	358.9	355.2	347.2	345.6
30°	392.7	391.4	390.4	391.8	390.2	390.4	387.0	384.6	378.5	373.9	370.6
32.5°	416.2	415.9	417.3	418.2	418.0	417.6	414.8	412.4	407.1	400.3	398.9
35°	448.2	449.6	450.8	455.0	455.0	458.0	455.2	452.4	446.0	437.9	435.1
37.5°	470.0	470.4	475.1	480.7	487.7	494.2	496.1	496.8	494.2	488.2	484.0
40°	489.8	490.7	498.2	506.9	517.1	530.0	537.8	541.2	542.0	539.2	530.0
42.5°	509.7	511.1	518.8	531.4	545.7	562.0	575.6	584.3	589.2	589.2	583.8
45°	532.8	534.7	543.1	556.9	573.5	594.1	612.7	629.4	637.3	637.8	632.7
47.5°	560.2	561.8	571.6	585.7	602.7	623.5	647.2	666.1	680.8	681.8	677.6
50°	595.4	597.9	606.1	618.6	636.2	657.2	680.8	707.3	722.7	726.4	722.0
52.5°	642.2	642.7	649.5	661.2	678.2	698.3	723.4	752.1	772.5	775.5	768.3
55°	706.8	706.1	710.5	723.2	736.0	751.6	777.6	809.9	832.6	837.2	829.8
57.5°	794.4	793.8	797.5	800.6	824.6	839.8	865.3	896.2	918.1	931.7	918.8
60°	930.2	929.6	935.6	953.4	971.4	993.7	1018.4	1055.4	1086.2	1090.2	1077.6
62.5°	1028.8	1032.2	1045.6	1066.3	1102.8	1146.3	1191.6	1240.3	1303.6	1323.7	1317.7
65°	994.3	1001.4	1019.8	1051.4	1100.0	1160.1	1231.2	1319.4	1404.2	1451.6	1450.2
66°	963.4	971.2	993.9	1024.3	1075.7	1141.4	1219.0	1315.1	1410.1	1462.4	1465.7
67.5°	907.4	916.0	938.2	974.2	1024.3	1094.1	1177.7	1282.1	1389.5	1450.5	1459.2
70°	798.1	808.0	824.1	853.9	903.2	965.6	1053.5	1147.0	1259.4	1329.4	1339.9
72.5°	667.3	675.9	694.0	718.2	758.7	798.0	866.9	935.9	1016.3	1096.0	1088.3
75°	479.1	482.8	493.6	520.0	541.7	577.0	632.5	689.0	743.9	780.4	785.6
77.5°	249.0	258.8	274.0	303.3	326.9	358.6	394.6	437.2	477.4	510.9	501.8
80°	163.0	167.2	180.7	195.7	213.0	233.3	257.4	273.3	278.4	276.4	278.4
82.5°	94.0	101.7	119.7	131.2	144.0	151.1	170.2	188.5	198.7	185.9	181.2
85°	11.9	15.4	48.7	61.2	70.1	80.7	86.5	97.5	91.0	81.4	99.2
87.5°	2.6	2.3	3.3	7.0	7.3	6.0	11.4	12.2	7.4	3.7	4.7
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: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4
2.5°	276.6	276.8	277.3	278.0	278.4	278.9	279.4	280.1	280.6	281.0	282.0
5°	275.4	276.4	277.3	278.2	279.4	281.3	282.4	283.4	284.3	286.1	286.9
7.5°	274.7	276.4	277.8	279.4	281.3	282.9	285.0	286.1	287.5	288.7	290.1
10°	274.2	276.6	278.0	280.3	282.4	284.1	286.4	287.8	289.4	290.9	291.5
12.5°	275.2	276.4	277.8	280.1	282.7	285.0	287.5	288.7	290.1	291.4	291.5
15°	279.2	279.2	279.4	281.3	283.8	285.7	287.8	288.9	289.7	290.4	290.4
17.5°	286.4	284.7	283.6	283.8	285.5	286.6	287.8	287.8	287.4	287.1	286.6
20°	294.8	292.7	290.4	288.7	288.3	287.4	286.6	284.3	282.4	280.7	279.6
22.5°	307.0	303.7	300.5	297.4	294.6	291.1	287.1	282.4	278.0	275.0	273.1
25°	322.0	319.4	315.4	310.7	307.2	300.7	295.5	288.7	283.2	279.2	275.9
27.5°	343.3	340.2	336.5	332.2	327.1	319.8	313.5	305.6	298.8	292.9	288.7
30°	369.7	365.7	362.9	357.7	354.2	346.0	339.7	329.9	316.8	307.4	301.6
32.5°	396.7	392.3	390.0	386.0	382.0	377.1	367.5	352.4	335.5	320.3	310.2
35°	433.0	428.3	424.1	420.6	414.8	405.7	397.2	379.0	355.8	334.6	317.8
37.5°	478.6	470.9	460.4	451.4	441.2	428.1	415.3	396.6	370.1	342.5	320.1
40°	527.3	513.7	498.7	482.0	464.3	445.4	430.7	411.7	382.0	349.3	318.4
42.5°	578.0	556.5	535.6	512.3	487.4	465.0	445.9	425.0	390.9	351.2	311.9
45°	628.2	604.1	572.6	542.0	510.6	482.8	461.3	437.9	399.1	351.9	303.3
47.5°	669.9	645.0	609.0	570.7	533.5	502.0	476.7	451.4	410.0	356.7	301.1
50°	713.8	683.6	643.6	598.3	556.2	520.9	494.0	467.8	425.5	369.4	307.9
52.5°	761.7	727.1	680.4	629.6	583.5	544.0	514.8	487.9	445.1	387.2	320.7
55°	820.2	777.9	727.1	669.9	620.5	576.7	544.6	512.7	468.6	408.2	336.9
57.5°	909.5	857.6	800.6	735.3	680.6	628.9	590.3	553.7	504.7	439.5	358.9
60°	1071.0	1015.6	941.5	862.5	798.1	737.9	681.3	635.7	575.6	501.3	407.5
62.5°	1302.5	1228.8	1130.0	1019.4	935.2	848.2	784.4	716.6	642.1	561.8	464.7
65°	1431.1	1341.8	1209.4	1081.1	972.8	878.4	797.2	718.7	635.9	559.3	478.1
66°	1447.0	1354.0	1216.5	1081.3	967.7	870.7	785.3	704.0	619.4	546.1	472.5
67.5°	1440.5	1345.3	1203.6	1060.9	945.5	841.2	753.0	668.7	584.3	516.0	453.8
70°	1333.1	1242.9	1103.7	965.6	855.9	753.0	668.9	585.9	508.5	450.0	404.3
72.5°	1107.1	1029.9	909.0	800.6	714.5	629.6	558.3	479.1	413.6	370.3	343.3
75°	799.1	752.4	642.2	580.1	504.6	448.2	379.0	332.0	285.0	264.0	259.3
77.5°	504.7	441.9	372.0	306.2	251.8	208.7	162.5	138.0	115.1	112.7	136.1
80°	255.5	230.0	177.2	141.2	118.8	96.1	76.0	57.5	40.2	48.4	58.0
82.5°	167.4	139.5	109.4	90.0	78.3	65.0	50.5	35.1	25.7	29.0	39.7
85°	90.5	77.1	62.2	49.1	39.7	35.5	23.8	16.8	16.6	17.8	22.7
87.5°	6.5	6.5	5.1	4.7	5.6	4.7	4.2	4.2	4.0	4.2	5.6
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: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4
2.5°	282.4	283.2	283.4	284.6	285.2	285.7	286.1	286.1	286.4	287.1	287.4
5°	287.8	288.9	290.4	291.4	291.8	293.2	293.7	293.7	294.1	295.1	295.7
7.5°	291.1	292.7	294.1	294.6	295.5	296.0	296.7	297.1	297.1	298.0	298.5
10°	292.3	293.2	294.6	294.6	295.5	295.5	296.2	296.5	296.5	297.4	298.0
12.5°	292.3	292.7	293.9	293.9	294.6	294.8	295.7	296.5	296.7	297.9	298.8
15°	290.9	291.4	292.3	292.5	294.1	295.1	297.1	298.5	298.5	299.7	300.2
17.5°	286.9	288.0	290.0	291.8	294.8	296.9	299.5	300.7	299.7	299.1	298.3
20°	280.3	282.4	286.9	291.5	296.9	299.7	301.1	300.0	296.7	293.4	291.4
22.5°	273.8	278.0	285.5	292.5	298.5	300.5	299.7	295.5	290.1	286.1	283.4
25°	276.8	281.8	288.9	295.3	299.3	298.8	296.0	290.1	284.3	279.2	274.5
27.5°	289.4	294.8	298.8	300.9	300.5	297.1	292.7	286.1	279.2	272.4	265.9
30°	301.4	304.2	305.1	303.4	299.7	294.3	288.7	281.3	271.9	263.5	256.0
32.5°	306.7	303.9	299.5	295.1	288.9	284.3	276.6	268.4	256.7	246.7	239.2
35°	306.7	295.5	284.3	275.0	265.9	260.0	251.1	240.1	229.4	220.9	215.1
37.5°	300.0	278.4	260.0	244.7	233.3	227.0	213.7	203.9	194.8	191.9	188.2
40°	287.5	255.8	229.1	209.2	194.8	185.4	172.1	165.3	161.8	160.4	159.7
42.5°	271.0	230.5	195.0	170.4	154.8	144.3	135.3	131.2	130.9	130.7	130.7
45°	253.2	203.4	161.8	132.6	118.8	109.4	105.2	103.5	104.9	104.7	104.9
47.5°	242.2	182.8	131.3	100.3	89.8	83.7	81.6	82.3	83.4	83.0	83.0
50°	240.8	172.3	111.1	78.0	70.1	67.1	66.6	66.6	67.3	66.9	66.6
52.5°	246.0	170.7	100.6	67.1	60.7	58.2	57.8	57.5	57.3	55.9	54.7
55°	254.9	174.4	97.5	64.3	57.8	55.0	54.2	53.8	52.8	51.0	48.8
57.5°	272.7	186.1	100.3	65.7	58.7	56.4	55.6	55.6	53.8	50.7	47.7
60°	315.4	215.8	111.7	71.1	63.2	60.7	61.2	61.0	58.2	53.8	49.1
62.5°	370.6	254.6	126.7	78.5	68.7	68.3	70.6	70.1	65.5	58.7	51.9
65°	396.1	272.8	130.9	80.2	69.9	72.0	76.7	76.2	70.4	61.0	52.4
66°	396.6	272.8	129.0	78.8	68.3	70.9	75.5	75.3	69.4	60.1	51.4
67.5°	387.0	265.4	123.7	76.0	65.0	66.9	71.1	70.9	65.5	57.8	49.6
70°	350.9	237.6	109.9	71.1	60.6	59.6	61.0	60.1	56.6	51.2	45.6
72.5°	300.7	199.4	95.8	67.3	57.5	53.8	52.8	52.1	49.3	46.3	42.8
75°	236.8	157.8	84.2	64.6	54.7	49.8	48.2	47.3	45.4	43.3	40.5
77.5°	146.1	112.9	73.4	60.7	52.6	47.7	46.5	45.1	42.3	39.7	37.7
80°	65.2	69.9	60.3	53.1	47.0	42.5	40.7	38.6	35.8	34.1	32.9
82.5°	43.4	45.1	43.7	39.7	35.5	32.0	29.2	29.2	28.7	27.3	26.9
85°	27.8	28.1	27.2	24.6	22.9	20.8	19.6	19.9	20.8	20.6	20.4
87.5°	6.3	6.3	7.4	7.0	8.2	8.7	9.4	10.0	11.4	11.4	12.2
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: P181623

CATALOG NUMBER: ICM-F01-LED-E1-T4-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	279.4	279.4	279.4	279.4	279.4
2.5°	287.5	288.0	288.5	287.8	288.0
5°	295.7	295.5	296.7	296.0	296.5
7.5°	298.3	298.5	299.5	299.5	299.7
10°	298.5	299.1	300.2	300.9	301.4
12.5°	299.7	300.7	302.5	303.0	303.0
15°	300.7	301.1	302.3	302.8	303.3
17.5°	297.4	296.5	296.9	297.1	296.9
20°	289.2	288.3	288.0	287.1	287.5
22.5°	280.3	277.8	276.1	274.2	274.2
25°	269.6	265.6	262.3	259.1	259.7
27.5°	259.5	254.3	251.1	249.0	248.6
30°	249.7	244.3	241.3	238.7	238.7
32.5°	233.3	229.6	225.6	224.0	223.7
35°	210.6	208.3	205.0	204.4	203.2
37.5°	185.2	184.5	181.7	181.4	180.3
40°	158.5	159.0	158.0	157.6	156.8
42.5°	131.9	134.2	133.8	133.5	133.0
45°	106.4	108.0	108.3	108.9	110.1
47.5°	83.7	84.2	84.7	84.4	84.7
50°	65.5	64.3	64.1	63.3	64.1
52.5°	52.8	51.0	50.0	49.1	48.7
55°	46.5	44.7	43.7	43.3	42.8
57.5°	44.9	43.0	41.6	40.7	40.5
60°	45.4	42.5	40.7	39.5	39.3
62.5°	46.5	42.8	40.2	39.1	38.8
65°	46.3	42.3	40.0	38.6	38.3
66°	45.6	41.9	39.5	38.3	38.1
67.5°	44.5	41.1	39.1	38.1	37.7
70°	42.3	40.2	38.6	37.4	36.9
72.5°	40.5	38.8	37.4	36.3	36.0
75°	38.3	36.9	35.5	34.6	34.3
77.5°	35.8	34.3	33.4	32.7	32.5
80°	31.5	30.6	29.7	28.7	28.7
82.5°	26.1	25.5	24.6	23.8	23.6
85°	20.1	20.1	19.4	18.7	18.5
87.5°	11.9	11.7	11.7	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

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