

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: P180362

Luminaire Tested: **ICM-F01-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180362
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1286.1 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - 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

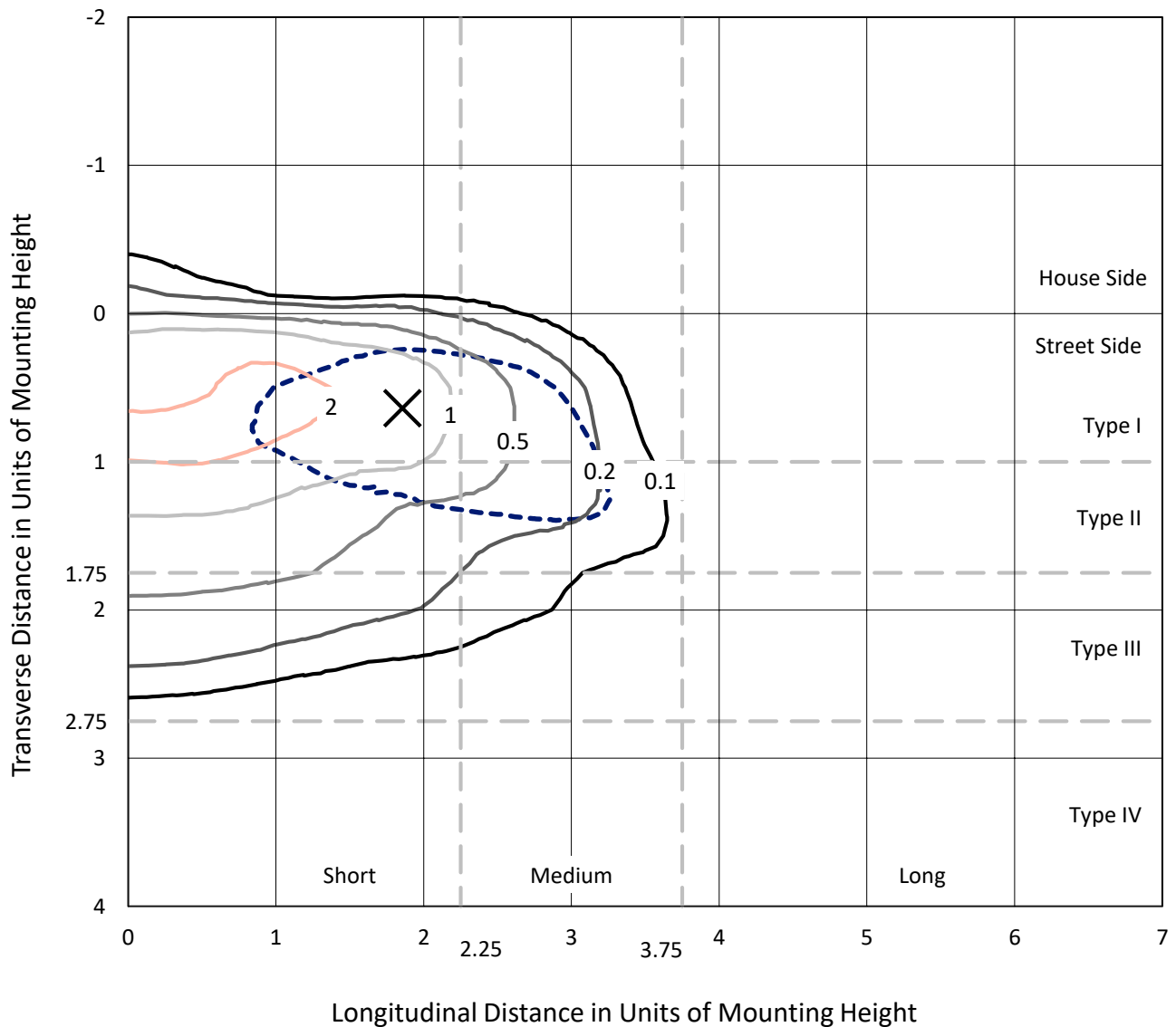


REPORT NUMBER: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

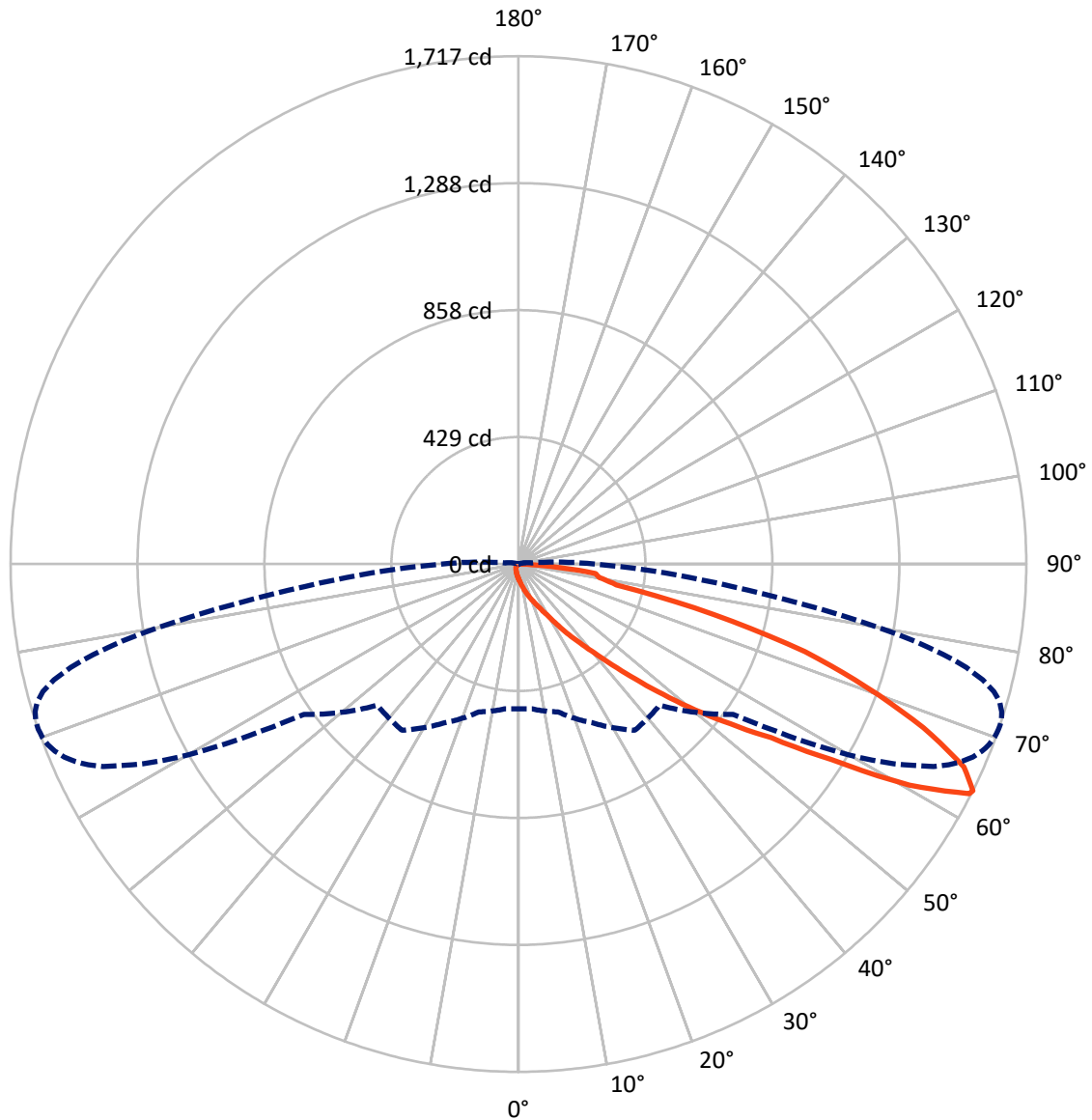
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P180362
CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

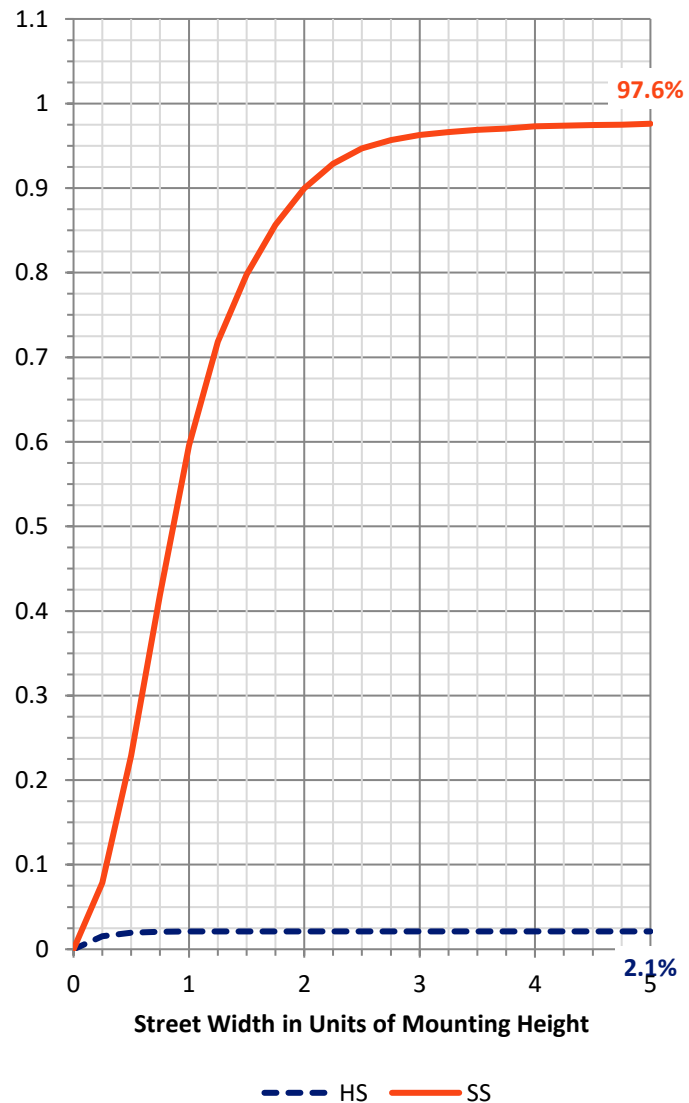
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27.3	0.0	27.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	1258.8	0.0	1258.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	1286.1	0.0	1286.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.4
10°-20°	21.1	1.6
20°-30°	43.0	3.3
30°-40°	104.9	8.2
40°-50°	234.7	18.2
50°-60°	330.0	25.7
60°-70°	388.0	30.2
70°-80°	140.1	10.9
80°-90°	18.7	1.5
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°	1286.1	100.0
0°-180°	1286.1	100.0



REPORT NUMBER: P180362

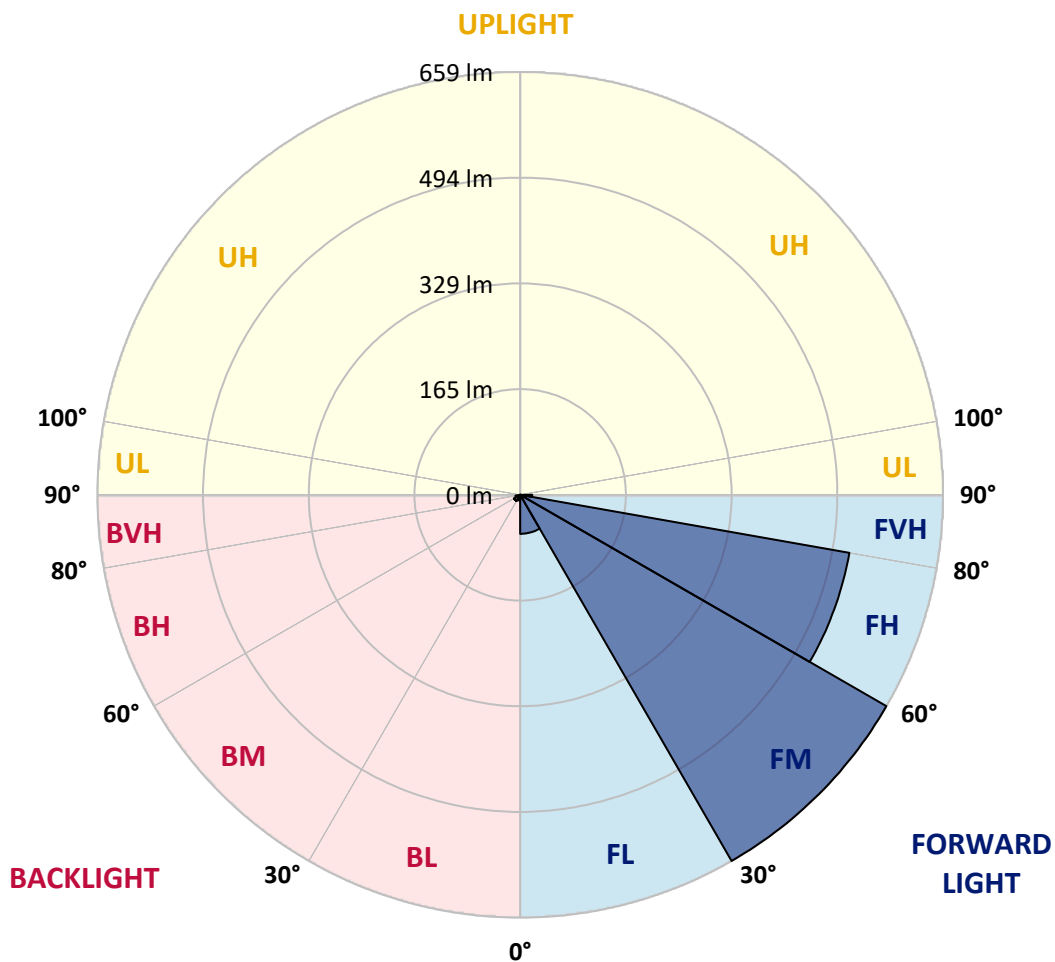
CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	60.8	4.7			
FM (30°-60°)	658.6	51.2			
FH (60°-80°)	520.7	40.5			G0/660
FVH (80°-90°)	18.7	1.5			G1/100
BL (0°-30°)	8.8	0.7	B0/110		
BM (30°-60°)	11.0	0.9	B0/220		
BH (60°-80°)	7.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			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 II Short





REPORT NUMBER: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	64.6	65.2	64.7	63.6	62.2	60.3	58.7	58.7	58.4	57.8	58.0
5°	84.7	84.8	83.9	81.1	78.5	74.6	70.1	69.7	69.2	68.5	68.3
7.5°	104.3	105.2	104.3	101.2	96.1	90.0	83.0	82.3	80.9	80.9	80.0
10°	124.4	124.4	123.4	119.9	115.3	106.6	97.8	96.6	94.9	94.4	93.0
12.5°	138.6	138.6	138.1	136.3	132.6	124.8	114.0	112.9	110.8	110.1	108.5
15°	144.3	144.3	144.5	146.1	146.3	142.9	131.6	130.7	128.6	126.7	126.0
17.5°	147.7	147.5	147.5	149.9	154.0	156.4	149.1	148.2	145.9	144.9	142.6
20°	155.4	155.0	153.6	153.6	157.6	165.8	165.8	165.5	163.0	162.2	161.1
22.5°	167.0	166.4	162.2	158.8	160.7	170.9	180.5	180.0	179.1	178.1	177.5
25°	185.7	184.0	176.7	166.4	164.8	175.8	191.7	192.8	193.6	193.6	194.0
27.5°	214.0	211.8	199.0	179.8	172.6	183.7	204.1	206.4	208.6	209.0	211.2
30°	253.2	249.5	231.0	203.0	186.3	195.4	222.3	224.9	227.9	228.9	232.2
32.5°	317.8	315.6	297.9	255.8	220.3	218.3	247.8	251.1	255.1	256.7	260.7
35°	415.9	416.4	401.9	364.0	314.9	289.2	293.4	296.2	297.6	302.5	304.7
37.5°	482.5	483.7	487.0	472.0	436.9	410.8	377.9	380.8	373.6	374.3	374.5
40°	519.1	522.8	542.0	556.5	553.7	538.4	512.0	513.7	500.1	497.0	482.3
42.5°	543.4	548.3	578.9	623.8	646.7	660.5	654.4	653.7	643.2	639.2	626.8
45°	558.5	563.0	601.6	667.7	720.6	760.7	777.4	779.3	770.3	766.4	756.1
47.5°	557.9	563.0	604.4	684.1	762.0	826.2	873.0	875.4	880.7	877.2	877.9
50°	527.0	531.9	573.5	656.3	749.8	856.2	941.8	949.2	957.9	963.7	966.5
52.5°	489.6	493.1	530.0	608.6	697.9	843.8	982.4	995.3	1008.1	1019.2	1026.8
55°	475.8	479.7	508.7	574.0	656.3	791.9	1001.4	1020.3	1038.5	1056.6	1071.3
57.5°	483.1	486.8	507.5	557.6	631.4	737.1	1006.7	1036.2	1066.1	1095.4	1124.4
60°	509.7	513.7	531.4	572.8	624.9	705.6	985.7	1034.5	1084.4	1135.4	1183.3
62.5°	499.2	500.8	527.0	599.4	671.7	678.7	909.2	977.5	1053.5	1132.0	1209.4
63°	489.1	491.0	517.6	592.2	686.0	674.7	885.6	957.7	1037.9	1122.4	1206.6
65°	443.5	443.7	464.1	523.0	670.1	681.8	780.4	849.1	941.3	1042.7	1149.1
67.5°	331.1	329.4	349.0	394.0	526.0	682.0	669.9	708.4	772.5	862.5	957.9
70°	117.4	114.8	146.6	208.7	327.8	557.9	575.6	578.1	595.9	644.6	704.5
72.5°	38.1	38.8	46.8	76.5	151.1	375.4	521.1	513.2	508.5	508.3	516.2
75°	15.2	15.4	18.7	33.9	67.8	180.9	456.4	460.8	462.4	464.7	467.4
77.5°	7.3	7.9	10.5	19.0	33.7	89.6	326.6	364.3	385.8	402.3	412.4
80°	2.6	3.1	5.9	11.7	15.6	41.1	172.1	207.6	239.2	279.8	314.9
82.5°	0.0	0.0	1.2	8.2	8.7	16.6	70.6	82.8	94.7	122.7	157.6
85°	0.0	0.0	0.0	2.3	2.6	2.8	23.8	28.7	32.3	37.7	43.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.4	3.5	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



REPORT NUMBER: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	57.5	57.3	57.3	56.8	56.6	56.1	55.9	55.2	55.0	55.0	55.0
5°	68.0	67.1	66.6	65.5	64.7	64.6	63.3	62.9	62.2	62.4	61.2
7.5°	79.7	78.0	77.4	75.7	75.3	73.7	73.2	72.0	71.3	69.9	69.4
10°	92.6	90.5	89.3	86.7	86.0	84.8	83.4	82.0	80.9	79.5	78.8
12.5°	107.3	105.5	104.5	101.0	99.3	97.8	95.8	94.0	92.1	91.0	89.3
15°	124.7	121.6	120.7	117.4	114.6	112.5	109.9	107.5	106.1	103.8	102.1
17.5°	141.7	138.6	138.0	133.0	130.0	128.6	125.8	122.7	120.2	117.9	115.3
20°	158.8	156.7	154.8	150.1	146.8	144.5	140.7	137.7	135.6	132.4	129.0
22.5°	175.8	173.7	172.3	167.4	164.4	161.1	157.8	154.5	151.5	147.5	143.8
25°	193.4	191.9	191.3	186.8	184.0	180.9	177.7	174.0	170.2	165.8	161.8
27.5°	211.6	212.1	210.6	209.7	206.7	204.6	199.4	196.8	194.0	188.7	183.7
30°	234.7	236.1	235.6	236.4	234.5	233.1	229.1	225.9	222.6	217.4	211.8
32.5°	264.0	265.9	266.8	269.3	268.4	267.9	266.8	262.0	259.7	250.9	248.6
35°	309.1	308.2	312.1	314.2	313.3	312.8	311.4	308.8	306.0	299.7	293.9
37.5°	367.7	368.7	370.1	365.9	363.1	362.9	358.6	356.1	352.1	345.1	338.0
40°	475.4	469.5	462.9	445.1	437.4	433.0	420.6	417.1	410.3	400.7	393.5
42.5°	615.2	609.3	589.7	559.9	544.0	522.0	512.0	499.6	490.0	474.4	466.0
45°	754.0	737.1	734.8	700.2	680.6	651.6	633.6	612.7	591.1	570.4	555.5
47.5°	871.2	867.4	855.9	834.9	816.7	792.4	769.2	737.1	714.7	685.5	658.6
50°	964.8	964.7	960.5	948.3	933.1	913.5	893.1	866.0	840.5	804.7	776.0
52.5°	1035.0	1038.8	1040.2	1036.5	1030.6	1013.3	1003.0	980.3	958.8	928.4	897.3
55°	1086.4	1100.3	1107.3	1115.2	1113.6	1107.5	1107.1	1092.3	1082.5	1058.4	1036.5
57.5°	1150.1	1172.8	1194.5	1233.0	1234.4	1248.0	1255.0	1262.1	1263.9	1254.3	1247.1
60°	1231.0	1277.2	1318.4	1399.1	1420.1	1453.3	1474.8	1498.1	1518.1	1519.7	1519.2
62.5°	1288.0	1359.3	1425.7	1545.4	1586.3	1624.7	1653.4	1676.1	1689.9	1703.9	1710.4
63°	1289.6	1367.7	1438.3	1561.8	1604.8	1641.2	1668.7	1689.7	1704.2	1712.6	1716.8
65°	1250.1	1344.8	1428.9	1551.9	1592.4	1629.1	1643.4	1657.1	1664.2	1667.5	1655.1
67.5°	1059.5	1152.2	1250.3	1387.8	1422.4	1466.3	1478.1	1485.1	1488.4	1487.6	1477.1
70°	792.4	870.0	979.2	1136.3	1182.1	1225.1	1251.7	1263.2	1267.0	1265.8	1250.1
72.5°	553.1	598.8	688.7	863.6	926.1	981.2	1014.2	1031.3	1034.8	1027.8	1013.3
75°	464.6	466.9	487.3	582.9	641.3	700.2	737.4	748.2	741.1	719.8	682.9
77.5°	414.8	419.9	419.9	434.1	445.6	462.0	465.5	439.4	408.9	369.7	337.9
80°	347.9	365.9	378.5	389.0	390.2	387.0	378.3	363.5	340.2	310.2	277.0
82.5°	211.4	246.9	261.4	315.6	342.2	360.3	358.9	339.3	321.5	290.4	262.0
85°	53.3	57.5	62.4	81.1	91.0	111.1	123.7	129.5	131.6	120.8	109.4
87.5°	5.1	3.5	5.9	4.5	6.3	4.7	6.3	5.9	7.3	7.7	8.4
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: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	54.5	54.2	54.0	53.8	53.6	53.3	52.8	52.8	52.4	52.1	51.9
5°	60.6	60.1	59.8	59.3	58.7	58.2	57.5	56.6	55.9	55.6	55.2
7.5°	68.3	67.1	66.6	66.0	65.0	63.6	62.7	62.0	60.7	60.1	58.7
10°	76.9	75.7	74.3	72.9	71.5	69.9	68.7	67.8	66.0	65.0	63.3
12.5°	87.9	85.8	84.2	82.3	80.5	78.5	77.1	74.3	72.7	70.6	69.2
15°	99.2	97.3	95.3	93.0	90.2	87.2	85.8	83.3	81.1	77.9	76.0
17.5°	112.7	109.2	106.4	103.5	101.0	98.2	95.3	91.4	88.4	85.6	81.9
20°	126.0	121.8	118.8	115.1	111.3	106.9	103.5	100.7	96.6	92.8	88.8
22.5°	140.3	136.1	131.2	127.4	122.2	118.8	114.3	109.7	105.5	100.6	95.6
25°	157.6	153.1	147.5	142.6	136.7	131.9	126.5	121.1	116.0	110.3	104.0
27.5°	178.9	174.1	168.1	162.2	154.5	148.5	143.3	136.1	129.5	122.5	115.3
30°	205.8	200.6	193.1	184.7	177.0	170.2	163.0	153.4	146.1	137.7	128.4
32.5°	240.8	234.7	224.7	216.7	207.2	198.2	188.2	178.6	168.4	157.3	146.6
35°	285.0	279.4	267.7	256.0	245.5	235.0	222.3	211.4	196.8	183.5	169.8
37.5°	330.8	320.7	310.0	297.4	284.3	271.6	256.3	241.0	224.5	210.0	192.7
40°	383.2	371.1	362.1	348.6	330.1	312.1	297.9	278.9	258.1	238.7	218.3
42.5°	455.0	441.4	425.5	404.9	391.6	370.6	352.1	329.7	302.3	280.6	256.0
45°	538.0	519.5	504.1	484.2	468.1	441.9	420.4	390.4	363.1	334.6	304.7
47.5°	632.7	609.8	587.3	567.6	542.0	516.2	488.8	457.1	422.0	390.7	355.2
50°	741.4	708.8	677.8	652.6	617.2	587.5	557.9	522.0	483.3	447.3	406.8
52.5°	862.2	824.6	783.4	744.7	703.7	665.6	629.9	588.7	545.5	501.5	456.4
55°	1008.1	979.8	931.4	882.1	827.4	776.5	730.4	679.4	626.8	569.0	521.6
57.5°	1236.6	1222.8	1182.3	1133.0	1061.7	999.7	921.6	859.2	783.0	703.5	642.2
60°	1546.1	1529.0	1506.3	1466.3	1409.8	1325.6	1239.6	1142.6	1026.6	916.5	812.0
62.5°	1711.2	1705.1	1686.6	1659.0	1606.1	1539.8	1453.0	1346.4	1215.5	1081.8	948.6
63°	1716.1	1708.4	1692.5	1664.4	1617.9	1553.6	1468.5	1364.9	1236.8	1100.5	964.4
65°	1649.7	1646.6	1630.5	1599.9	1568.1	1519.0	1453.0	1364.0	1256.5	1127.6	992.2
67.5°	1463.1	1454.0	1429.2	1419.8	1397.7	1363.5	1313.2	1252.0	1175.1	1073.9	956.9
70°	1237.5	1223.9	1192.8	1176.2	1149.1	1127.6	1096.9	1053.2	1005.8	935.2	848.0
72.5°	998.3	970.2	941.8	898.5	860.6	822.2	788.4	757.5	705.4	676.8	610.7
75°	648.3	597.4	548.5	483.1	424.1	372.0	321.2	295.5	242.0	220.3	189.1
77.5°	307.7	279.2	240.8	211.2	173.2	141.5	115.5	86.7	68.0	53.3	40.7
80°	248.3	224.2	201.0	174.1	145.7	116.2	89.1	66.6	47.3	32.7	23.2
82.5°	221.4	195.3	166.7	148.2	128.8	105.5	86.5	70.6	52.1	38.1	26.0
85°	86.0	72.5	55.9	45.6	35.5	29.2	26.4	18.2	14.2	11.3	8.7
87.5°	7.4	6.0	4.9	3.3	3.5	1.9	2.1	1.4	1.2	1.2	0.9
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: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	51.6	51.4	51.2	50.7	50.7	50.2	50.0	49.8	48.7	46.0	44.0
5°	54.2	53.8	53.3	52.6	52.1	51.4	51.0	50.2	47.7	42.8	38.6
7.5°	58.0	57.0	56.4	55.0	54.2	53.3	52.6	51.4	47.3	39.7	33.9
10°	62.4	60.7	59.6	58.0	56.6	55.4	54.2	52.6	46.8	36.5	29.7
12.5°	67.8	66.0	63.6	61.8	59.8	58.2	56.6	54.5	46.0	33.7	26.4
15°	73.2	70.4	68.7	66.1	63.6	61.2	58.9	57.0	46.3	30.6	23.6
17.5°	79.3	76.5	72.9	70.1	67.3	64.3	61.5	57.8	45.1	28.3	21.5
20°	85.1	81.1	77.9	74.3	70.4	66.6	63.2	59.8	44.2	26.0	19.6
22.5°	91.4	86.7	82.5	78.0	73.2	68.9	64.7	60.6	42.5	23.8	18.0
25°	99.2	93.8	87.6	82.3	77.1	72.0	66.6	61.5	40.9	22.0	16.8
27.5°	108.5	101.5	95.3	88.7	81.4	74.8	68.9	63.3	39.3	20.6	15.6
30°	120.4	112.2	103.5	94.9	87.2	79.7	71.5	64.6	37.7	19.2	14.5
32.5°	136.3	126.0	115.5	105.5	95.2	85.6	76.9	67.8	36.7	18.0	13.3
35°	157.3	144.0	131.2	118.5	106.1	94.4	83.3	72.9	36.7	16.6	11.9
37.5°	177.2	161.8	145.4	129.8	115.1	101.5	88.2	75.7	34.8	15.4	10.8
40°	198.7	180.3	161.1	142.6	124.8	108.0	92.8	78.5	33.2	14.0	9.6
42.5°	231.7	208.3	183.3	161.8	140.6	119.7	100.7	83.9	31.1	12.7	8.4
45°	275.0	245.2	215.8	189.6	162.5	137.0	114.6	93.8	30.6	11.4	7.3
47.5°	321.2	286.1	251.5	218.1	186.3	156.7	129.8	104.7	30.6	10.3	6.3
50°	367.3	323.4	286.4	247.6	211.8	176.7	144.7	116.2	30.9	9.4	5.1
52.5°	408.9	362.0	320.6	275.6	236.1	195.4	160.7	127.4	30.4	8.2	4.2
55°	466.7	411.4	363.5	314.0	267.7	221.9	182.3	144.3	30.6	7.3	3.5
57.5°	573.0	508.3	450.5	385.5	332.2	273.1	225.1	178.9	33.4	6.0	2.6
60°	725.7	641.6	560.4	481.1	413.4	343.0	280.7	226.3	39.3	4.9	1.9
62.5°	828.4	718.2	621.4	534.0	455.2	381.6	313.8	251.8	43.3	4.0	1.2
63°	838.9	725.0	627.7	537.5	457.1	383.4	315.2	253.7	43.4	3.7	1.2
65°	858.7	736.7	631.3	538.2	455.2	380.8	314.2	253.4	44.0	3.1	0.9
67.5°	836.1	718.7	610.9	518.0	438.8	365.7	302.5	244.1	43.7	2.1	0.7
70°	747.7	650.4	555.7	469.2	397.2	331.1	275.4	222.6	40.2	1.4	0.5
72.5°	548.9	482.8	409.4	347.0	299.3	248.6	212.1	167.2	31.1	0.9	0.3
75°	162.7	148.2	124.7	109.9	97.0	80.2	71.3	55.6	15.9	0.5	0.0
77.5°	32.5	29.5	26.4	24.1	22.7	19.4	18.5	15.2	6.5	0.3	0.0
80°	17.0	14.0	11.9	10.5	9.1	7.4	6.3	5.1	1.2	0.0	0.0
82.5°	16.4	11.0	7.9	6.5	5.6	4.5	3.5	2.6	0.7	0.0	0.0
85°	6.0	4.7	3.5	2.8	2.3	2.1	1.7	1.4	0.0	0.0	0.0
87.5°	0.9	0.7	0.7	0.5	0.5	0.3	0.3	0.3	0.0	0.0	0.0
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: P180362

CATALOG NUMBER: ICM-F01-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	49.3	49.3	49.3	49.3	49.3	49.3	49.3
2.5°	41.9	40.0	39.1	37.9	37.9	37.7	38.1
5°	34.8	32.3	30.4	29.0	29.2	28.6	28.7
7.5°	29.5	26.9	25.2	24.3	24.1	23.8	23.8
10°	25.5	23.2	21.8	21.0	20.8	20.8	20.8
12.5°	22.7	20.4	19.2	18.7	18.7	18.5	18.5
15°	20.4	18.5	17.3	16.8	16.8	16.6	16.8
17.5°	18.5	16.6	15.6	15.2	15.2	15.0	15.0
20°	16.8	15.2	14.2	13.6	13.6	13.3	13.6
22.5°	15.4	13.8	12.7	12.2	11.9	11.7	11.9
25°	14.0	12.4	11.3	10.5	10.3	10.3	10.0
27.5°	12.8	11.3	9.9	9.1	8.9	8.9	8.7
30°	11.7	9.9	8.4	7.7	7.4	7.4	7.4
32.5°	10.5	8.4	7.3	6.5	6.3	6.3	6.3
35°	9.4	7.3	6.0	5.4	5.1	5.1	5.1
37.5°	7.9	6.0	4.7	4.2	4.0	3.7	3.7
40°	6.8	4.7	3.5	3.1	2.6	2.6	2.6
42.5°	5.6	3.7	2.6	1.9	1.7	1.4	1.7
45°	4.7	2.8	1.7	0.9	0.7	0.7	0.7
47.5°	3.7	1.9	0.7	0.3	0.3	0.3	0.3
50°	2.8	1.2	0.3	0.0	0.0	0.3	0.3
52.5°	2.1	0.7	0.0	0.0	0.0	0.0	0.0
55°	1.2	0.3	0.0	0.0	0.0	0.0	0.0
57.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)