

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: P180558

Luminaire Tested: **ICM-E01-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180558
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E01-LED-E1-SL3-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1612.9 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 24.7
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

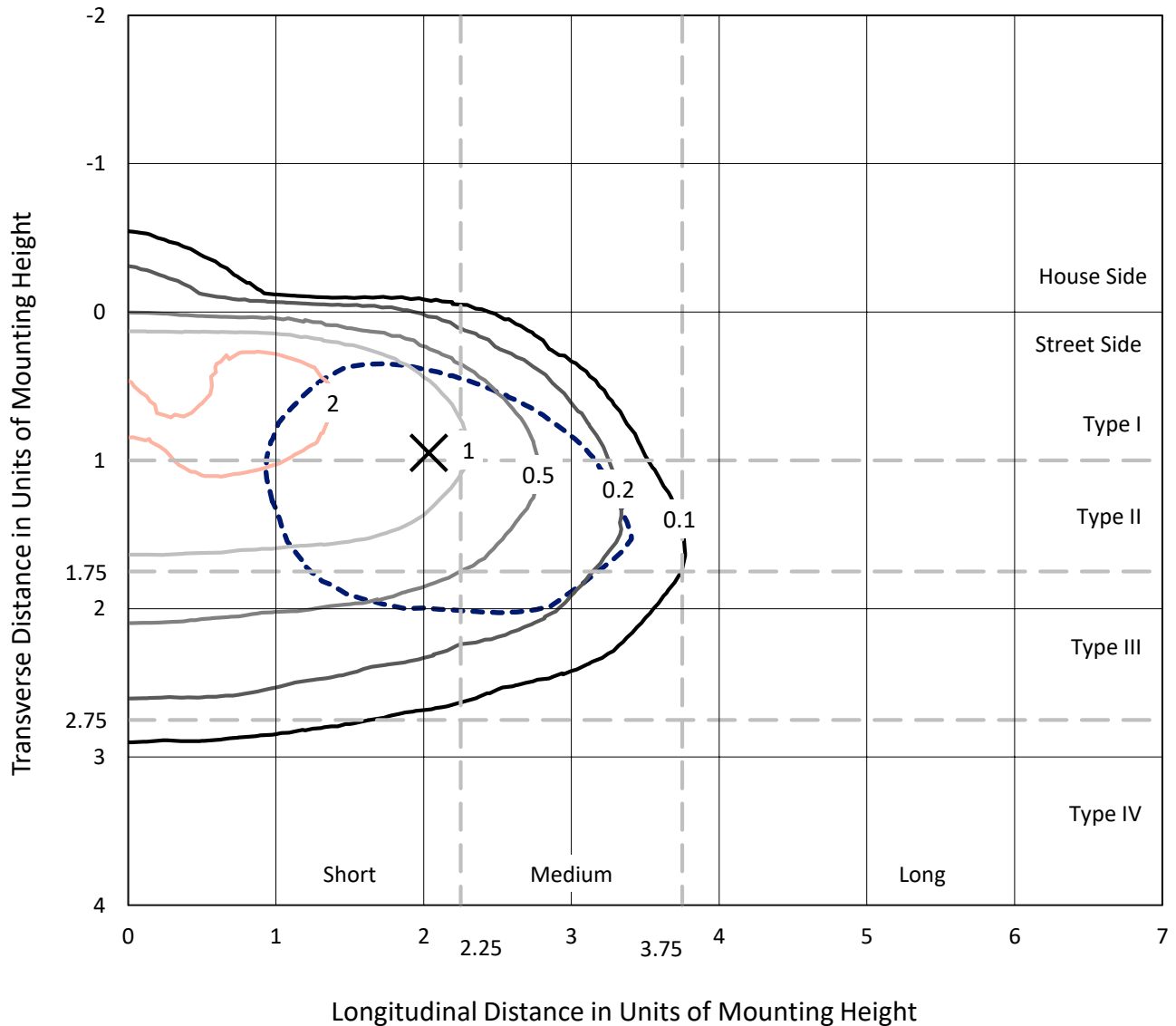


REPORT NUMBER: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

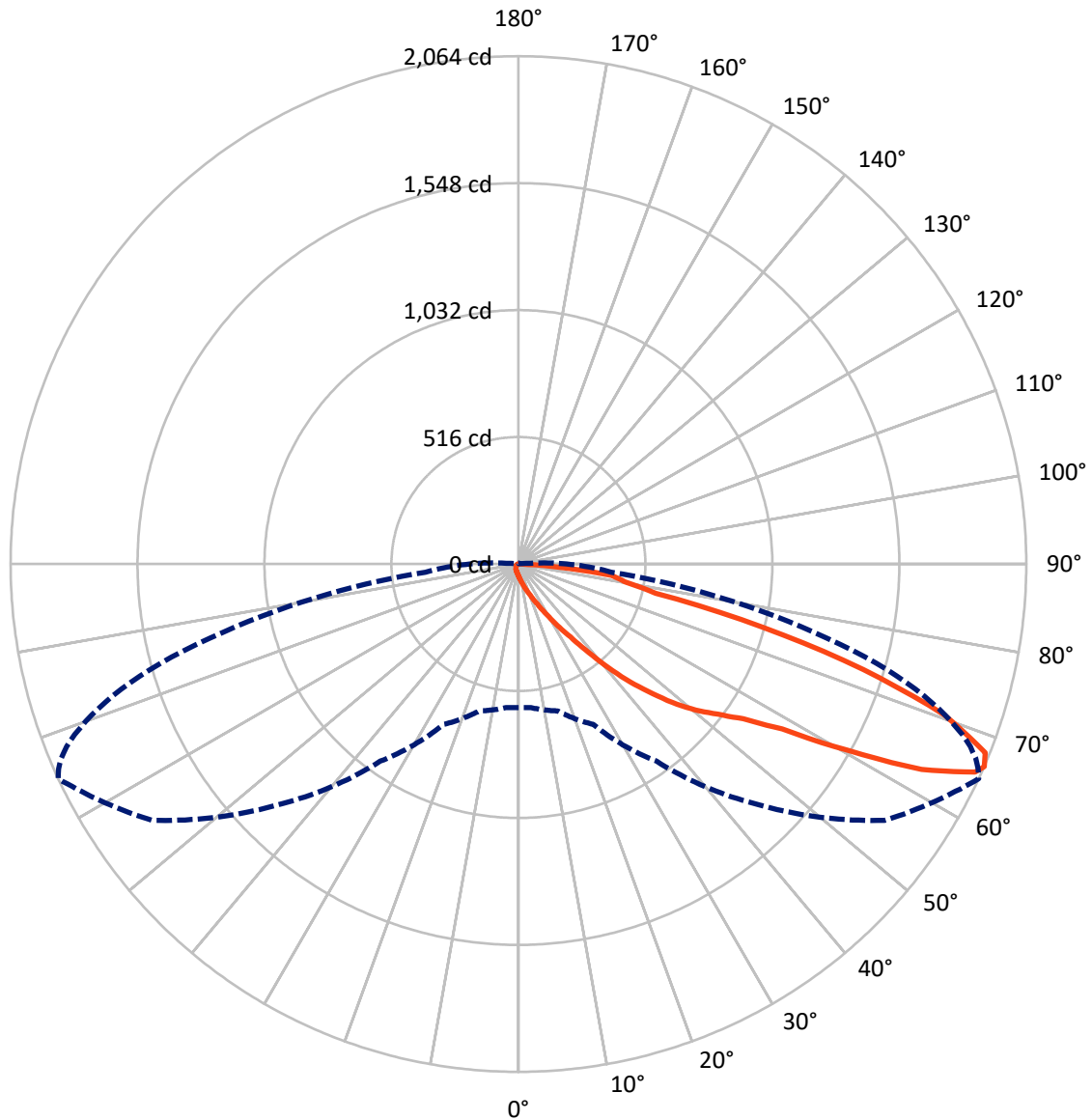


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

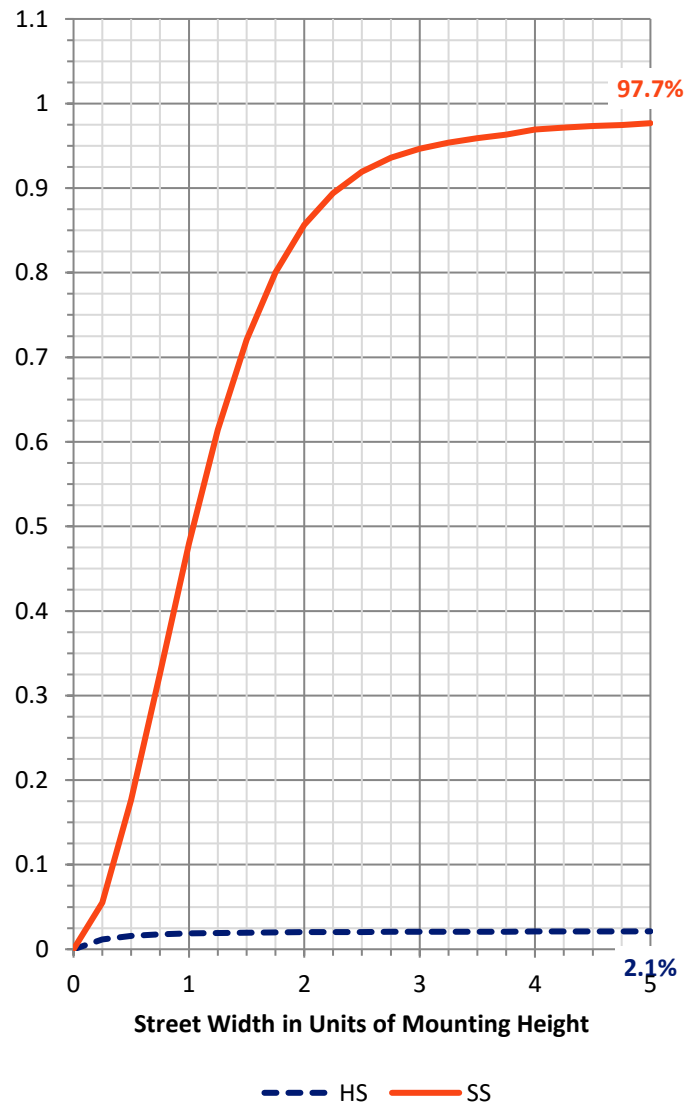
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35.0	0.0	35.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	1577.9	0.0	1577.9
	% Fixture	97.8	0.0	97.8
Total	Lumens	1612.9	0.0	1612.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.3
10°-20°	23.1	1.4
20°-30°	49.8	3.1
30°-40°	106.4	6.6
40°-50°	235.4	14.6
50°-60°	398.9	24.7
60°-70°	532.3	33.0
70°-80°	234.5	14.5
80°-90°	27.0	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°	1612.9	100.0
0°-180°	1612.9	100.0



REPORT NUMBER: P180558

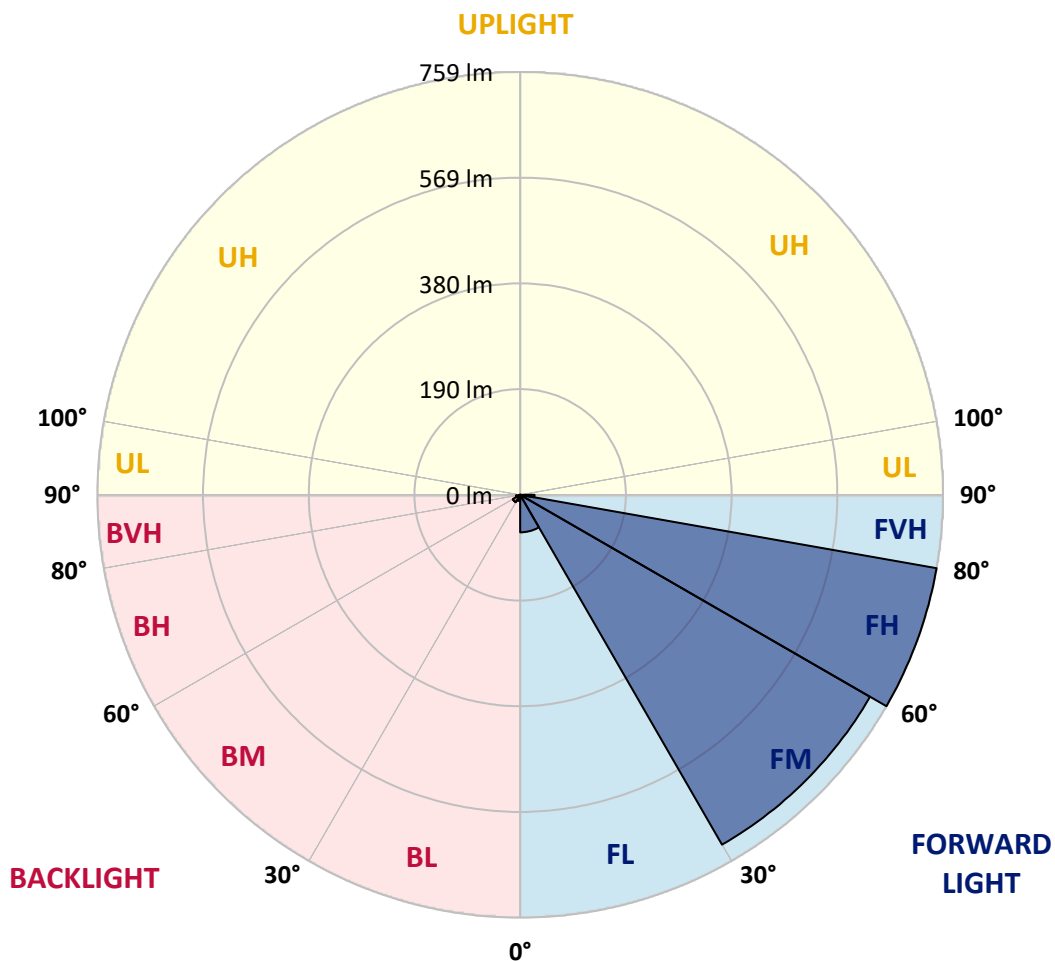
CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	67.4	4.2			
FM	(30°-60°)	725.4	45.0			
FH	(60°-80°)	759.3	47.1			G1/1800
FVH	(80°-90°)	25.9	1.6			G1/100
BL	(0°-30°)	11.0	0.7	B0/110		
BM	(30°-60°)	15.4	1.0	B0/220		
BH	(60°-80°)	7.5	0.5	B0/110		G0/110
BVH	(80°-90°)	1.1	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 III Short





REPORT NUMBER: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
2.5°	61.4	61.1	59.8	59.8	58.0	56.7	55.2	53.7	53.7	53.3	53.0
5°	81.2	79.3	79.1	75.6	72.8	68.8	65.1	60.2	59.5	58.9	58.6
7.5°	103.3	103.0	100.2	96.1	90.5	83.1	75.6	67.6	66.3	65.8	64.5
10°	131.8	130.2	126.5	119.7	111.3	101.4	89.3	76.6	75.1	73.8	73.2
12.5°	159.1	156.3	154.1	145.4	134.9	120.3	105.8	87.4	86.2	84.7	82.1
15°	184.5	182.0	178.3	170.9	159.1	140.7	123.7	101.4	98.3	96.1	94.2
17.5°	204.4	202.8	198.4	190.0	177.4	161.2	140.7	115.6	113.2	110.4	107.0
20°	223.3	221.1	214.2	202.8	189.1	176.7	160.9	134.2	130.9	127.4	123.7
22.5°	241.2	239.1	227.9	209.0	194.4	189.1	183.5	155.3	150.0	147.3	143.5
25°	266.3	261.7	244.4	214.2	194.7	198.8	208.4	182.6	177.7	173.7	167.7
27.5°	300.2	294.0	266.7	222.0	196.0	209.3	236.9	215.8	210.5	205.9	199.4
30°	338.3	334.2	301.7	240.7	204.9	224.8	268.8	258.0	251.8	246.2	238.4
32.5°	376.7	371.2	338.9	276.0	229.1	254.9	308.8	307.0	298.9	293.7	285.3
35°	410.5	407.7	383.9	334.0	284.4	307.6	362.1	364.4	357.2	351.6	342.3
37.5°	433.5	433.5	428.8	396.3	372.1	389.5	440.7	440.9	433.8	421.1	416.5
40°	445.3	448.7	465.4	471.6	470.4	492.7	543.5	538.0	532.1	525.6	510.0
42.5°	469.5	472.6	508.2	551.0	578.9	608.4	643.4	641.6	634.4	622.6	608.4
45°	510.4	514.4	556.9	624.8	682.1	724.0	746.3	737.7	730.5	719.4	711.9
47.5°	562.5	570.2	618.3	702.3	771.4	840.7	863.9	840.9	834.7	826.1	814.0
50°	618.0	625.4	676.6	772.7	850.9	933.3	972.1	933.3	924.4	921.6	907.9
52.5°	666.1	672.3	721.6	827.0	911.6	1008.4	1064.8	1013.7	1007.2	997.9	987.9
55°	694.6	699.5	745.8	853.0	952.8	1076.0	1154.4	1109.5	1099.8	1096.1	1081.9
57.5°	704.2	709.1	750.7	856.5	975.2	1137.7	1263.3	1264.8	1253.3	1240.0	1235.6
60°	704.2	709.8	744.8	848.1	996.9	1203.4	1408.4	1537.7	1512.8	1510.4	1494.6
62.5°	675.1	680.3	715.6	822.3	1026.1	1292.1	1610.5	1838.8	1831.6	1815.5	1789.5
65°	611.8	614.9	649.6	756.6	1014.9	1373.7	1785.8	2039.1	2027.6	1996.0	1962.5
66°	583.3	585.8	618.3	719.1	978.3	1384.8	1816.8	2064.2	2045.3	2018.6	1980.8
67.5°	542.0	546.3	569.3	649.3	890.5	1346.1	1797.2	2046.5	2030.1	1997.9	1960.0
70°	361.9	358.8	439.7	498.3	678.4	1096.8	1612.4	1837.5	1837.9	1822.6	1807.5
72.5°	171.8	173.7	197.2	306.7	444.0	732.7	1283.4	1466.7	1487.7	1460.5	1441.6
75°	123.4	126.2	140.5	187.6	264.8	439.7	831.9	1025.8	1026.3	978.0	934.9
77.5°	36.0	37.5	52.7	115.6	198.4	296.7	477.9	570.2	556.9	522.1	489.6
80°	14.9	14.9	15.5	36.9	79.7	201.6	334.2	439.1	437.5	424.2	404.9
82.5°	5.6	5.9	7.4	15.2	18.9	49.6	223.0	381.1	380.2	361.2	347.6
85°	0.7	0.7	1.9	6.5	7.2	9.3	44.7	168.1	167.2	168.1	147.3
87.5°	0.0	0.0	0.3	0.7	0.9	1.2	1.9	6.5	7.2	6.8	6.2
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: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
2.5°	53.0	52.4	52.4	52.1	52.1	52.1	51.8	51.4	51.4	51.2	50.9
5°	58.0	57.4	57.0	56.5	56.1	55.8	55.2	54.9	54.2	54.0	53.7
7.5°	63.9	62.6	62.3	61.4	60.5	59.8	59.3	58.3	57.7	56.5	56.1
10°	71.3	69.8	68.6	67.3	66.3	64.8	63.9	62.6	61.4	60.5	59.5
12.5°	80.9	78.8	76.9	75.6	73.5	71.6	69.8	68.8	66.3	65.1	63.5
15°	91.4	89.0	86.8	84.4	82.8	79.7	77.2	74.4	73.2	71.0	68.6
17.5°	105.1	101.1	97.7	95.2	92.1	89.0	86.2	83.4	79.7	77.2	74.1
20°	119.7	116.3	111.6	107.3	103.5	99.8	95.8	92.1	88.7	84.7	80.9
22.5°	138.3	133.3	127.7	123.4	118.4	114.4	108.8	103.9	98.3	93.0	88.7
25°	161.9	155.3	150.0	143.9	138.0	131.8	124.9	118.8	111.6	106.7	99.3
27.5°	191.0	184.8	177.7	169.6	163.7	154.4	145.4	137.7	129.3	121.6	113.2
30°	228.2	219.3	211.8	204.0	192.3	183.3	172.7	162.1	150.7	143.0	130.2
32.5°	272.8	263.3	252.1	240.9	230.0	217.4	204.4	191.4	178.6	164.4	151.3
35°	327.4	316.0	303.3	291.2	274.4	260.7	244.4	226.3	212.1	195.6	179.3
37.5°	399.7	380.7	369.6	356.9	334.2	315.6	297.4	279.4	254.2	236.9	213.7
40°	490.2	479.1	460.7	440.3	419.8	395.4	370.5	346.7	317.5	293.3	266.3
42.5°	596.6	580.2	561.6	532.1	511.4	482.5	454.2	422.6	387.0	356.0	324.4
45°	696.5	676.9	662.6	633.2	611.4	577.4	543.3	509.8	468.6	428.6	391.9
47.5°	804.4	788.2	764.7	740.7	718.8	680.3	643.4	602.8	559.4	511.9	464.5
50°	899.3	886.5	870.4	841.6	817.0	784.8	741.4	697.0	642.1	595.1	541.1
52.5°	979.8	970.0	947.3	926.8	904.8	874.4	835.6	793.2	734.0	682.1	620.7
55°	1075.1	1067.9	1048.1	1035.4	1015.8	986.7	950.4	911.0	848.4	791.9	722.5
57.5°	1231.0	1225.4	1208.1	1202.8	1183.5	1158.1	1113.5	1071.4	998.1	928.1	848.7
60°	1489.3	1478.1	1452.8	1439.7	1399.1	1364.9	1307.0	1249.0	1160.7	1071.4	975.8
62.5°	1765.9	1734.6	1686.2	1644.7	1587.0	1527.7	1450.2	1361.6	1258.0	1151.9	1042.1
65°	1915.1	1861.7	1800.7	1734.6	1659.8	1572.8	1475.1	1368.7	1257.4	1145.4	1029.5
66°	1932.1	1871.9	1807.2	1733.7	1650.5	1557.9	1458.6	1347.0	1231.4	1122.1	1006.2
67.5°	1910.7	1847.7	1779.3	1697.7	1607.7	1511.6	1407.5	1291.4	1180.2	1069.5	956.6
70°	1760.9	1698.3	1637.2	1551.4	1455.5	1358.8	1260.2	1130.5	1025.1	923.4	823.0
72.5°	1406.2	1363.7	1303.3	1229.8	1136.5	1023.0	940.7	824.8	733.3	634.7	556.9
75°	878.8	818.9	744.2	650.5	579.3	487.2	439.1	351.0	298.9	253.3	209.3
77.5°	449.3	404.4	351.9	299.3	248.7	198.4	153.5	108.6	73.2	50.9	37.9
80°	371.2	331.4	288.1	240.0	195.4	151.6	109.1	74.4	47.4	31.0	24.2
82.5°	306.7	273.2	234.4	189.8	151.0	119.1	82.8	54.0	33.5	21.7	17.0
85°	130.5	118.4	91.4	72.6	54.6	40.3	28.2	18.9	13.3	10.9	10.0
87.5°	5.6	6.2	5.9	4.7	3.4	3.4	3.1	2.5	2.5	2.5	2.5
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: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
2.5°	50.9	50.5	50.2	50.2	50.0	49.6	47.7	46.2	44.4	43.1	41.9
5°	53.0	52.7	52.1	51.8	51.2	50.9	46.8	43.4	40.7	38.4	36.9
7.5°	55.2	54.9	54.0	53.0	52.7	52.1	45.6	41.2	37.5	35.1	33.5
10°	58.0	57.0	56.1	54.9	54.0	53.0	44.4	38.8	34.7	32.6	31.0
12.5°	62.0	60.5	58.9	57.4	56.1	54.6	43.7	36.6	32.6	30.0	28.6
15°	66.7	64.5	62.6	60.7	58.6	57.0	42.5	34.7	30.7	28.2	26.3
17.5°	71.0	68.6	65.8	63.0	60.7	58.6	41.2	32.8	28.8	26.3	24.5
20°	77.2	73.5	70.0	66.7	63.5	60.7	39.3	31.0	27.3	24.5	22.6
22.5°	84.0	79.7	75.3	70.7	66.7	63.0	37.9	29.5	25.8	23.0	20.7
25°	92.7	87.4	81.6	75.6	71.0	66.0	36.3	27.9	24.2	21.4	19.3
27.5°	104.8	97.4	90.9	83.4	76.3	70.7	35.1	26.7	22.6	19.8	17.7
30°	121.2	110.4	100.2	92.1	83.7	75.6	33.8	25.1	21.4	18.3	15.8
32.5°	139.5	126.8	115.1	103.0	92.4	83.1	32.6	23.9	19.8	16.7	14.6
35°	162.1	146.0	130.2	116.3	103.5	91.2	31.3	22.6	18.6	15.2	13.0
37.5°	194.7	174.6	153.8	135.8	119.3	103.0	30.4	21.4	17.0	13.7	11.4
40°	239.4	213.3	187.9	163.4	142.0	121.6	29.1	20.2	15.8	12.4	10.2
42.5°	287.7	256.1	222.6	195.1	165.6	139.8	27.9	18.9	14.6	11.2	9.0
45°	347.9	308.6	267.9	230.4	194.4	161.2	26.7	17.7	13.0	10.0	7.7
47.5°	413.7	363.4	317.5	270.4	227.6	187.9	25.1	16.7	11.8	8.7	6.8
50°	481.2	428.2	370.2	316.6	265.8	214.6	23.5	15.2	10.5	7.7	5.6
52.5°	554.1	491.4	432.3	365.6	306.3	249.6	22.0	14.0	9.6	6.8	4.7
55°	646.8	576.7	507.3	432.6	361.2	290.2	20.5	12.4	8.4	5.9	3.7
57.5°	763.4	680.3	595.1	510.7	424.2	343.5	19.3	10.9	7.2	4.9	3.1
60°	873.5	776.5	673.2	576.1	478.4	384.5	17.4	9.6	6.2	4.0	3.1
62.5°	930.5	819.8	708.6	601.6	497.4	399.1	15.5	8.1	5.3	3.4	2.8
65°	916.6	803.7	695.8	587.9	485.9	389.8	13.7	7.2	4.7	3.1	2.8
66°	896.5	784.8	676.3	573.7	476.3	379.8	12.7	6.8	4.4	3.1	2.5
67.5°	852.4	744.5	640.9	545.4	450.0	360.9	11.4	6.2	4.0	2.8	2.5
70°	728.1	630.1	547.3	462.3	384.5	304.2	9.3	5.3	3.4	2.5	2.5
72.5°	481.9	415.2	360.0	309.8	258.9	200.9	7.7	4.4	2.8	2.5	2.1
75°	181.7	164.4	141.1	126.8	110.7	97.0	6.2	2.8	2.1	2.1	2.1
77.5°	32.3	29.8	26.3	24.2	22.3	20.5	4.9	1.9	1.9	2.1	2.1
80°	21.7	20.2	18.3	16.7	15.5	14.0	3.4	1.6	1.9	1.9	2.1
82.5°	15.5	14.6	13.7	12.4	11.4	10.2	2.1	1.6	1.9	1.9	1.9
85°	9.3	8.7	8.1	7.4	6.5	6.2	1.6	1.6	1.6	1.9	1.9
87.5°	2.5	2.1	2.5	2.5	1.9	2.1	1.2	1.2	1.2	1.6	1.6
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: P180558

CATALOG NUMBER: ICM-E01-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	48.7	48.7	48.7	48.7	48.7
2.5°	41.2	41.2	40.7	41.6	41.6
5°	35.6	35.6	35.3	35.6	35.6
7.5°	32.6	32.3	32.3	32.3	32.6
10°	29.8	29.5	29.5	29.5	29.5
12.5°	27.3	27.0	26.7	27.0	27.0
15°	25.1	24.5	24.5	24.5	24.5
17.5°	23.3	22.6	22.3	22.3	22.3
20°	21.4	20.5	20.5	20.5	20.5
22.5°	19.5	18.6	18.6	18.6	18.6
25°	17.7	16.7	16.7	16.7	16.7
27.5°	16.1	15.2	15.2	15.2	15.2
30°	14.2	13.7	13.7	14.0	13.7
32.5°	13.0	12.1	12.1	12.4	12.4
35°	11.4	10.9	10.9	10.9	10.9
37.5°	10.0	9.3	9.3	9.3	9.3
40°	8.7	8.1	7.7	8.1	8.1
42.5°	7.4	6.8	6.5	6.5	6.5
45°	6.5	5.6	5.3	5.6	5.6
47.5°	5.3	4.7	4.7	4.9	4.9
50°	4.0	4.0	4.4	4.9	4.9
52.5°	3.7	3.7	4.4	4.9	4.9
55°	3.4	3.7	4.4	4.7	4.9
57.5°	3.1	3.7	4.4	4.7	4.7
60°	3.1	3.4	4.0	4.7	4.7
62.5°	2.8	3.1	3.7	4.4	4.4
65°	2.8	3.1	3.7	4.4	4.4
66°	2.8	3.1	3.7	4.4	4.4
67.5°	2.8	3.1	3.7	4.4	4.4
70°	2.8	3.1	3.7	4.0	4.0
72.5°	2.5	2.8	3.4	4.0	4.0
75°	2.5	2.8	3.4	4.0	4.0
77.5°	2.5	2.8	3.4	4.0	4.0
80°	2.5	2.8	3.4	3.7	4.0
82.5°	2.1	2.8	3.1	3.7	3.7
85°	2.1	2.5	3.1	3.4	3.7
87.5°	1.9	2.1	2.5	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)