

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: P180566

Luminaire Tested: **ICM-E02-LED-E1-SL3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180566
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-E02-LED-E1-SL3-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2722.5 lumens
Efficiency: N/A
Efficacy: 52.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

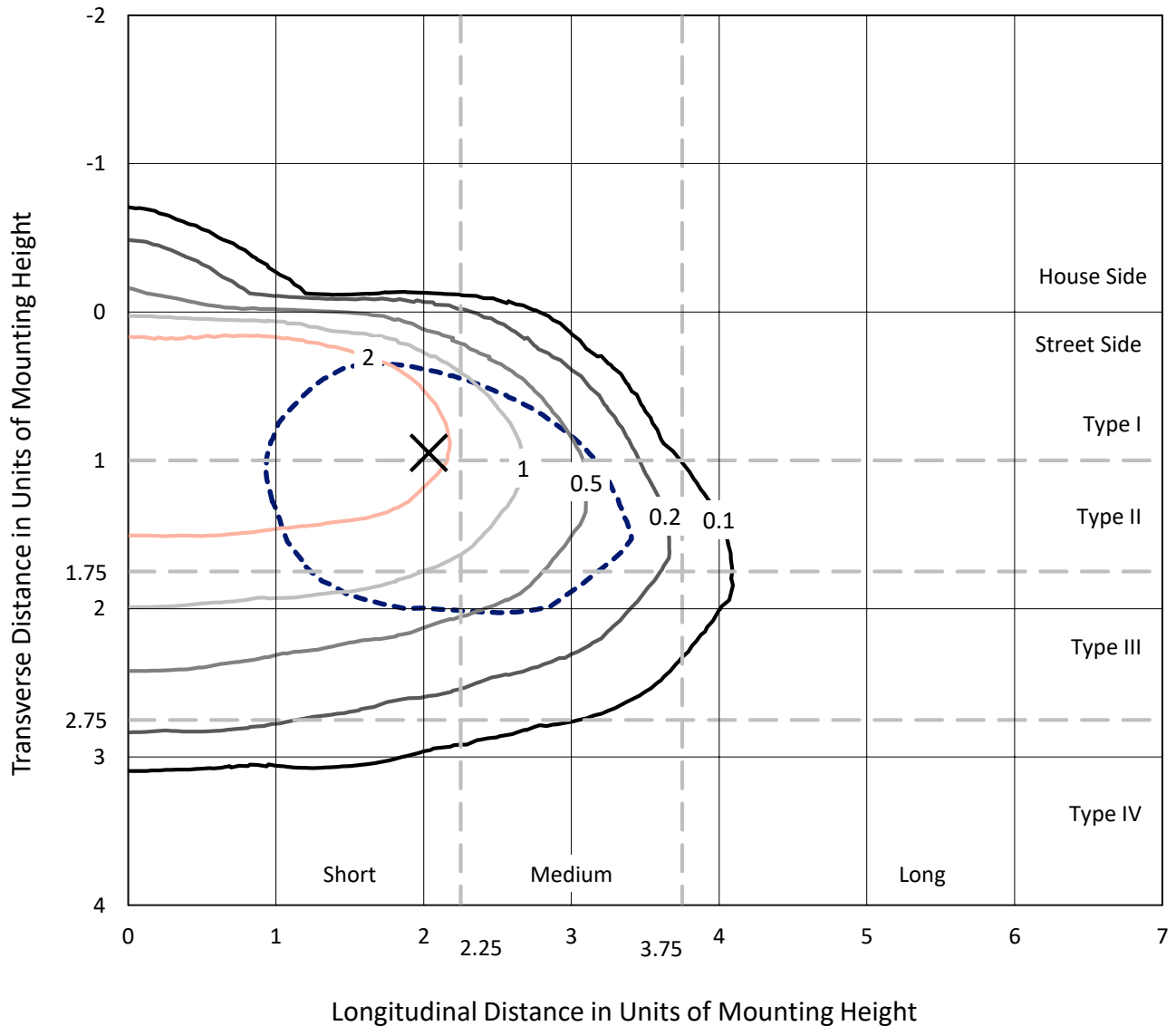
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180566
 CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

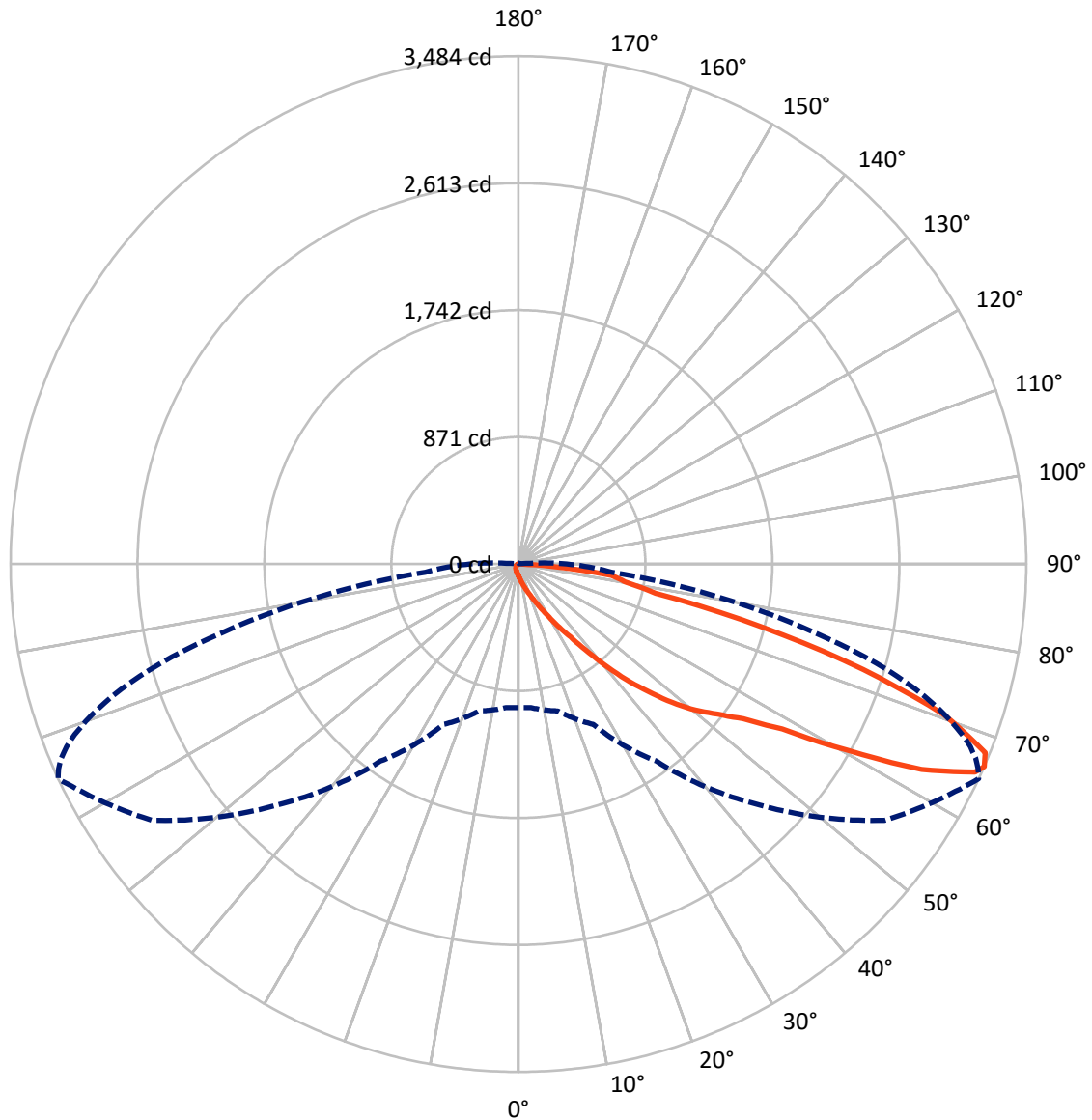
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P180566
CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180566

CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

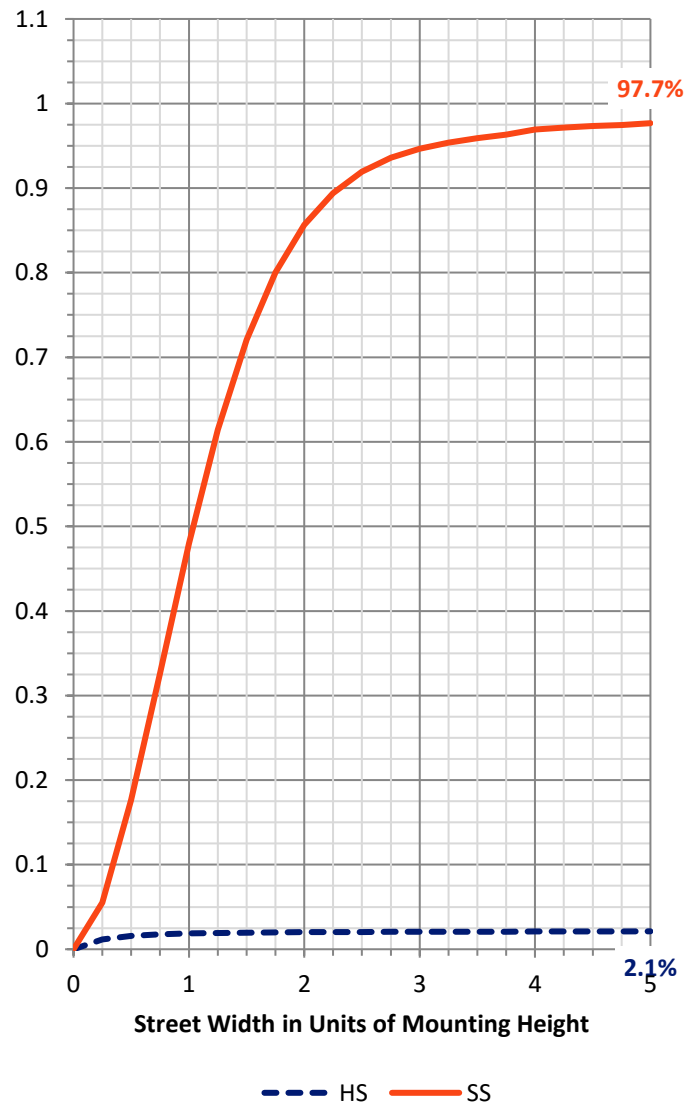
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	59.0	0.0	59.0
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	2663.5	0.0	2663.5
	% Fixture	97.8	0.0	97.8
Total	Lumens	2722.5	0.0	2722.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.3
10°-20°	39.0	1.4
20°-30°	84.1	3.1
30°-40°	179.7	6.6
40°-50°	397.3	14.6
50°-60°	673.3	24.7
60°-70°	898.5	33.0
70°-80°	395.8	14.5
80°-90°	45.6	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°	2722.5	100.0
0°-180°	2722.5	100.0



REPORT NUMBER: P180566

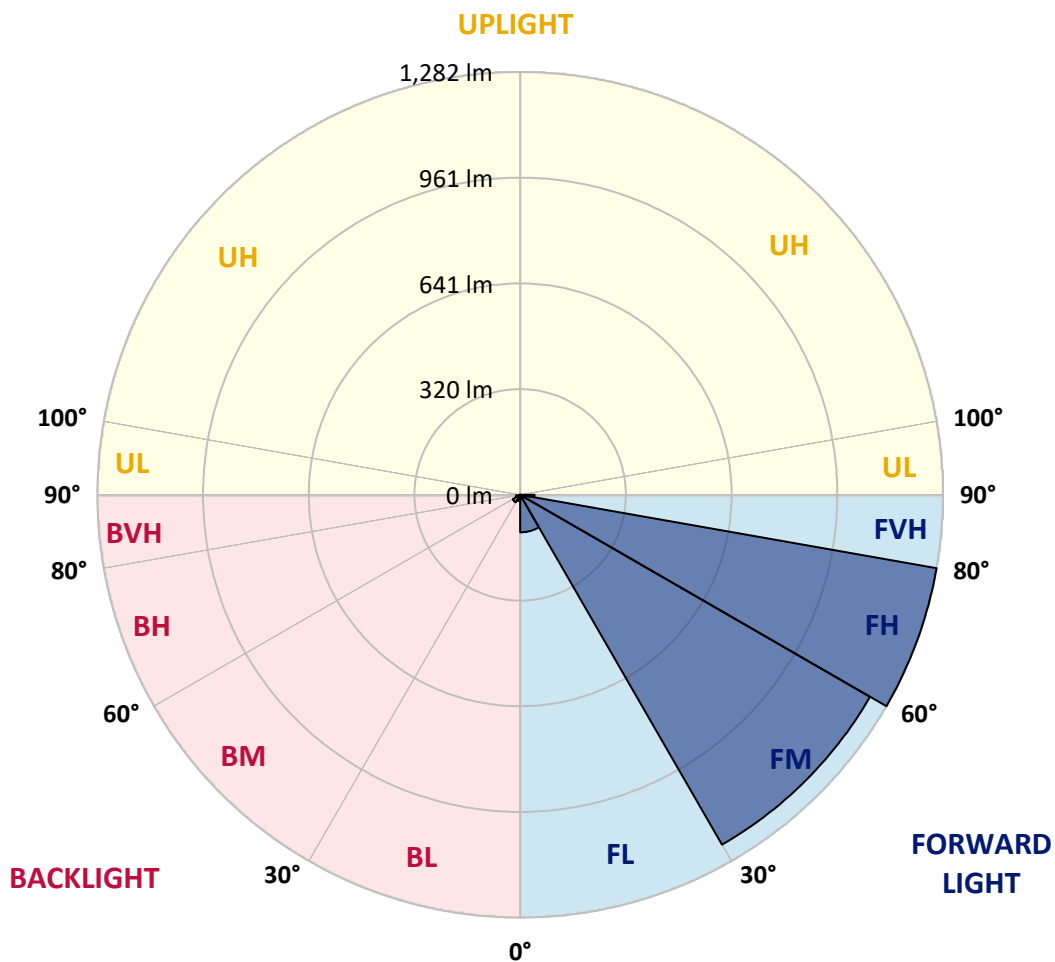
CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	113.7	4.2			
FM	(30°-60°)	1224.4	45.0			
FH	(60°-80°)	1281.6	47.1			G1/1800
FVH	(80°-90°)	43.8	1.6			G1/100
BL	(0°-30°)	18.6	0.7	B0/110		
BM	(30°-60°)	25.9	1.0	B0/220		
BH	(60°-80°)	12.7	0.5	B0/110		G0/110
BVH	(80°-90°)	1.8	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: P180566

CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	103.6	103.1	101.0	101.0	97.9	95.8	93.2	90.5	90.5	90.0	89.5
5°	137.1	134.0	133.5	127.7	123.0	116.2	110.0	101.6	100.5	99.4	98.9
7.5°	174.3	173.8	169.0	162.2	152.8	140.3	127.7	114.1	112.0	111.0	108.8
10°	222.4	219.8	213.6	202.0	187.9	171.2	150.7	129.3	126.7	124.6	123.5
12.5°	268.5	263.8	260.1	245.5	227.7	203.1	178.5	147.6	145.5	142.9	138.7
15°	311.4	307.3	300.9	288.4	268.5	237.6	208.8	171.2	166.0	162.2	159.1
17.5°	344.9	342.3	335.0	320.8	299.4	272.2	237.6	195.3	191.1	186.3	180.6
20°	376.8	373.2	361.7	342.3	319.3	298.3	271.6	226.6	220.8	215.2	208.8
22.5°	407.2	403.5	384.7	352.7	328.2	319.3	309.9	262.2	253.3	248.7	242.3
25°	449.6	441.8	412.5	361.7	328.7	335.5	351.7	308.3	299.9	293.1	283.2
27.5°	506.7	496.2	450.1	374.8	330.8	353.3	399.9	364.3	355.4	347.5	336.6
30°	571.1	564.2	509.3	406.1	346.0	379.4	453.8	435.4	425.0	415.6	402.5
32.5°	635.9	626.5	572.1	465.9	386.8	430.2	521.3	518.1	504.6	495.6	481.5
35°	693.0	688.3	648.0	563.7	480.0	519.3	611.4	615.0	603.0	593.6	577.9
37.5°	731.7	731.7	723.9	668.9	628.1	657.4	743.7	744.3	732.3	710.8	703.0
40°	751.6	757.4	785.7	796.1	794.1	831.7	917.5	908.1	898.1	887.2	861.0
42.5°	792.5	797.7	857.9	930.1	977.2	1026.9	1086.1	1082.9	1070.9	1051.0	1026.9
45°	861.5	868.4	940.0	1054.7	1151.5	1222.1	1259.8	1245.2	1233.1	1214.3	1201.8
47.5°	949.5	962.5	1043.6	1185.5	1302.2	1419.0	1458.2	1419.5	1409.0	1394.3	1374.0
50°	1043.2	1055.7	1142.1	1304.4	1436.2	1575.5	1640.8	1575.5	1560.3	1555.5	1532.6
52.5°	1124.3	1134.7	1218.0	1395.9	1538.8	1702.1	1797.4	1711.0	1700.0	1684.3	1667.5
55°	1172.5	1180.8	1258.8	1439.9	1608.5	1816.2	1948.7	1872.8	1856.6	1850.2	1826.2
57.5°	1188.7	1197.0	1267.2	1445.7	1646.1	1920.4	2132.4	2135.0	2115.6	2093.1	2085.8
60°	1188.7	1198.1	1257.2	1431.5	1682.8	2031.4	2377.3	2595.6	2553.7	2549.5	2522.8
62.5°	1139.4	1148.4	1208.0	1388.1	1731.9	2181.0	2718.6	3103.8	3091.7	3064.6	3020.6
65°	1032.7	1038.0	1096.6	1277.1	1713.1	2318.7	3014.3	3442.0	3422.5	3369.1	3312.7
66°	984.6	988.8	1043.6	1213.8	1651.4	2337.5	3066.6	3484.3	3452.4	3407.4	3343.6
67.5°	914.9	922.2	960.9	1096.0	1503.3	2272.1	3033.7	3454.5	3426.7	3372.3	3308.5
70°	610.8	605.6	742.2	841.1	1145.2	1851.3	2721.7	3101.7	3102.3	3076.6	3050.9
72.5°	290.0	293.1	332.9	517.7	749.5	1236.8	2166.4	2475.7	2511.3	2465.2	2433.3
75°	208.3	213.0	237.1	316.7	447.0	742.2	1404.3	1731.5	1732.5	1650.8	1578.1
77.5°	60.7	63.3	89.0	195.3	335.0	500.9	806.6	962.5	940.0	881.4	826.4
80°	25.1	25.1	26.1	62.3	134.5	340.2	564.2	741.1	738.5	716.0	683.5
82.5°	9.4	10.0	12.6	25.7	31.9	83.7	376.4	643.3	641.7	609.8	586.7
85°	1.0	1.0	3.2	11.0	12.0	15.7	75.3	283.7	282.1	283.7	248.7
87.5°	0.0	0.0	0.6	1.0	1.6	2.1	3.2	11.0	12.0	11.5	10.5
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: P180566

CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	89.5	88.5	88.5	87.9	87.9	87.9	87.4	86.9	86.9	86.3	85.9
5°	97.9	96.8	96.3	95.3	94.7	94.2	93.2	92.7	91.6	91.1	90.5
7.5°	107.8	105.8	105.2	103.6	102.0	101.0	100.0	98.4	97.4	95.3	94.7
10°	120.4	117.8	115.6	113.6	112.0	109.4	107.8	105.8	103.6	102.0	100.5
12.5°	136.7	132.9	129.8	127.7	124.1	120.9	117.8	116.2	112.0	110.0	107.3
15°	154.4	150.2	146.5	142.3	139.7	134.5	130.3	125.6	123.5	119.8	115.6
17.5°	177.4	170.6	164.8	160.7	155.4	150.2	145.5	140.8	134.5	130.3	125.1
20°	202.0	196.3	188.5	181.1	174.8	168.6	161.8	155.4	149.7	142.9	136.7
22.5°	233.4	225.0	215.6	208.3	199.9	193.1	183.7	175.3	166.0	157.0	149.7
25°	273.2	262.2	253.3	242.9	232.9	222.4	211.0	200.5	188.5	180.1	167.5
27.5°	322.4	311.9	299.9	286.3	276.4	260.7	245.5	232.4	218.2	205.2	191.1
30°	385.2	370.0	357.5	344.4	324.5	309.3	291.5	273.8	254.4	241.3	219.8
32.5°	460.6	444.4	425.5	406.7	388.4	366.9	344.9	323.0	301.5	277.4	255.4
35°	552.7	533.4	511.9	491.4	463.3	440.2	412.5	382.0	358.0	330.2	302.5
37.5°	674.7	642.7	623.9	602.4	564.2	532.8	502.0	471.6	429.2	399.9	360.7
40°	827.5	808.7	777.8	743.3	708.7	667.4	625.5	585.2	536.0	495.2	449.6
42.5°	1007.1	979.3	947.9	898.1	863.1	814.4	766.8	713.4	653.2	600.8	547.4
45°	1175.5	1142.6	1118.5	1068.8	1032.2	974.6	917.0	860.5	790.9	723.4	661.6
47.5°	1357.7	1330.5	1290.7	1250.4	1213.2	1148.4	1086.1	1017.5	944.2	864.2	784.1
50°	1517.9	1496.4	1469.2	1420.6	1379.2	1324.8	1251.4	1176.7	1084.0	1004.4	913.3
52.5°	1654.0	1637.2	1599.0	1564.5	1527.3	1476.0	1410.6	1338.9	1238.9	1151.5	1047.8
55°	1814.6	1802.6	1769.1	1747.6	1714.7	1665.5	1604.3	1537.8	1432.0	1336.8	1219.5
57.5°	2078.0	2068.5	2039.2	2030.3	1997.9	1954.9	1879.5	1808.4	1684.8	1566.5	1432.6
60°	2514.0	2495.1	2452.2	2430.2	2361.6	2304.0	2206.2	2108.3	1959.1	1808.4	1647.2
62.5°	2980.9	2927.9	2846.2	2776.2	2678.8	2578.8	2448.0	2298.2	2123.5	1944.5	1759.2
65°	3232.6	3142.5	3039.5	2927.9	2801.8	2654.7	2489.9	2310.3	2122.4	1933.5	1737.7
66°	3261.3	3159.8	3050.4	2926.3	2786.1	2629.6	2462.2	2273.7	2078.4	1894.2	1698.4
67.5°	3225.2	3119.0	3003.3	2865.7	2713.9	2551.6	2375.7	2180.0	1992.1	1805.2	1614.7
70°	2972.4	2866.7	2763.6	2618.6	2456.9	2293.6	2127.2	1908.4	1730.4	1558.7	1389.1
72.5°	2373.7	2302.0	2199.9	2075.8	1918.3	1726.7	1588.0	1392.3	1237.9	1071.4	940.0
75°	1483.4	1382.3	1256.2	1098.1	977.8	822.2	741.1	592.5	504.6	427.6	353.3
77.5°	758.4	682.5	594.1	505.1	419.8	335.0	259.1	183.2	123.5	85.9	63.8
80°	626.5	559.5	486.2	405.1	329.8	255.9	184.3	125.6	80.1	52.4	40.8
82.5°	517.7	461.1	395.7	320.3	254.9	201.0	139.7	91.1	56.6	36.7	28.7
85°	220.4	199.9	154.4	122.5	92.1	68.0	47.6	31.9	22.5	18.3	16.7
87.5°	9.4	10.5	10.0	7.8	5.8	5.8	5.2	4.2	4.2	4.2	4.2
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: P180566

CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
2.5°	85.9	85.3	84.8	84.8	84.3	83.7	80.6	78.0	74.9	72.7	70.7
5°	89.5	89.0	87.9	87.4	86.3	85.9	79.1	73.3	68.6	64.9	62.3
7.5°	93.2	92.7	91.1	89.5	89.0	87.9	76.9	69.6	63.3	59.2	56.6
10°	97.9	96.3	94.7	92.7	91.1	89.5	74.9	65.4	58.6	55.0	52.4
12.5°	104.7	102.0	99.4	96.8	94.7	92.1	73.8	61.8	55.0	50.8	48.2
15°	112.6	108.8	105.8	102.6	98.9	96.3	71.7	58.6	51.8	47.6	44.5
17.5°	119.8	115.6	111.0	106.2	102.6	98.9	69.6	55.4	48.7	44.5	41.4
20°	130.3	124.1	118.3	112.6	107.3	102.6	66.5	52.4	46.0	41.4	38.2
22.5°	141.9	134.5	127.2	119.3	112.6	106.2	63.8	49.8	43.4	38.7	35.1
25°	156.5	147.6	137.7	127.7	119.8	111.4	61.2	47.1	40.8	36.1	32.5
27.5°	176.9	164.4	153.4	140.8	128.7	119.3	59.2	45.0	38.2	33.5	29.9
30°	204.7	186.3	169.0	155.4	141.3	127.7	57.0	42.4	36.1	30.9	26.7
32.5°	235.5	214.0	194.1	173.8	156.0	140.3	55.0	40.3	33.5	28.3	24.6
35°	273.8	246.5	219.8	196.3	174.8	153.9	52.8	38.2	31.4	25.7	22.0
37.5°	328.7	294.7	259.6	229.2	201.5	173.8	51.3	36.1	28.7	23.1	19.3
40°	404.1	360.1	317.2	275.8	239.7	205.2	49.2	34.0	26.7	20.9	17.3
42.5°	485.7	432.4	375.8	329.2	279.5	236.1	47.1	31.9	24.6	18.9	15.2
45°	587.3	520.7	452.2	388.9	328.2	272.2	45.0	29.9	22.0	16.7	13.1
47.5°	698.2	613.4	536.0	456.4	384.2	317.2	42.4	28.3	19.9	14.7	11.5
50°	812.3	722.8	624.9	534.4	448.6	362.2	39.8	25.7	17.8	13.1	9.4
52.5°	935.4	829.6	729.6	617.1	517.1	421.3	37.1	23.5	16.2	11.5	7.8
55°	1091.8	973.5	856.3	730.1	609.8	490.0	34.5	20.9	14.1	10.0	6.3
57.5°	1288.7	1148.4	1004.4	862.1	716.0	579.9	32.5	18.3	12.0	8.4	5.2
60°	1474.4	1310.6	1136.3	972.5	807.6	649.0	29.3	16.2	10.5	6.8	5.2
62.5°	1570.7	1383.9	1196.0	1015.4	839.5	673.6	26.1	13.6	8.9	5.8	4.7
65°	1547.2	1356.7	1174.5	992.4	820.2	658.0	23.1	12.0	7.8	5.2	4.7
66°	1513.2	1324.8	1141.6	968.3	803.9	641.2	21.5	11.5	7.3	5.2	4.2
67.5°	1438.9	1256.7	1081.9	920.7	759.4	609.2	19.3	10.5	6.8	4.7	4.2
70°	1228.9	1063.5	923.8	780.4	649.0	513.5	15.7	8.9	5.8	4.2	4.2
72.5°	813.4	700.8	607.6	522.9	437.0	339.2	13.1	7.3	4.7	4.2	3.6
75°	306.7	277.4	238.1	214.0	186.9	163.8	10.5	4.7	3.6	3.6	3.6
77.5°	54.4	50.2	44.5	40.8	37.7	34.5	8.4	3.2	3.2	3.6	3.6
80°	36.7	34.0	30.9	28.3	26.1	23.5	5.8	2.6	3.2	3.2	3.6
82.5°	26.1	24.6	23.1	20.9	19.3	17.3	3.6	2.6	3.2	3.2	3.2
85°	15.7	14.7	13.6	12.6	11.0	10.5	2.6	2.6	2.6	3.2	3.2
87.5°	4.2	3.6	4.2	4.2	3.2	3.6	2.1	2.1	2.1	2.6	2.6
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: P180566

CATALOG NUMBER: ICM-E02-LED-E1-SL3-HSS-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	82.1	82.1	82.1	82.1	82.1
2.5°	69.6	69.6	68.6	70.1	70.1
5°	60.2	60.2	59.6	60.2	60.2
7.5°	55.0	54.4	54.4	54.4	55.0
10°	50.2	49.8	49.8	49.8	49.8
12.5°	46.0	45.6	45.0	45.6	45.6
15°	42.4	41.4	41.4	41.4	41.4
17.5°	39.3	38.2	37.7	37.7	37.7
20°	36.1	34.5	34.5	34.5	34.5
22.5°	32.9	31.4	31.4	31.4	31.4
25°	29.9	28.3	28.3	28.3	28.3
27.5°	27.3	25.7	25.7	25.7	25.7
30°	24.1	23.1	23.1	23.5	23.1
32.5°	22.0	20.4	20.4	20.9	20.9
35°	19.3	18.3	18.3	18.3	18.3
37.5°	16.7	15.7	15.7	15.7	15.7
40°	14.7	13.6	13.1	13.6	13.6
42.5°	12.6	11.5	11.0	11.0	11.0
45°	11.0	9.4	8.9	9.4	9.4
47.5°	8.9	7.8	7.8	8.4	8.4
50°	6.8	6.8	7.3	8.4	8.4
52.5°	6.3	6.3	7.3	8.4	8.4
55°	5.8	6.3	7.3	7.8	8.4
57.5°	5.2	6.3	7.3	7.8	7.8
60°	5.2	5.8	6.8	7.8	7.8
62.5°	4.7	5.2	6.3	7.3	7.3
65°	4.7	5.2	6.3	7.3	7.3
66°	4.7	5.2	6.3	7.3	7.3
67.5°	4.7	5.2	6.3	7.3	7.3
70°	4.7	5.2	6.3	6.8	6.8
72.5°	4.2	4.7	5.8	6.8	6.8
75°	4.2	4.7	5.8	6.8	6.8
77.5°	4.2	4.7	5.8	6.8	6.8
80°	4.2	4.7	5.8	6.3	6.8
82.5°	3.6	4.7	5.2	6.3	6.3
85°	3.6	4.2	5.2	5.8	6.3
87.5°	3.2	3.6	4.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)