

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: P180633

Luminaire Tested: **ICS-F02-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180633  
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: ICS-F02-LED-E1-SL3-HSS  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

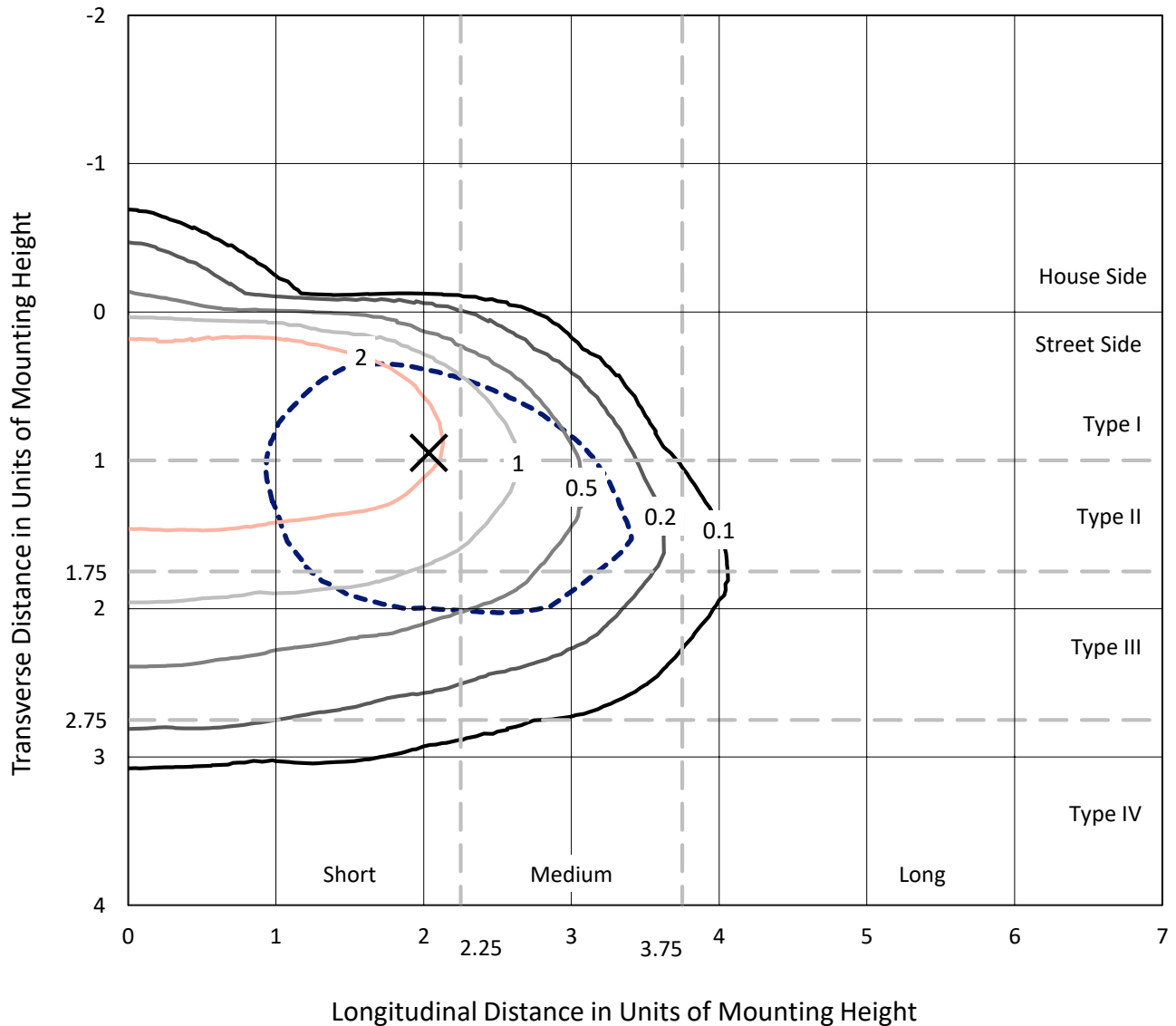
Lumens per Lamp: N/A  
Luminaire Lumens: 2576.5 lumens  
Efficiency: N/A  
Efficacy: 46.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 55  
Input Voltage (V): NR  
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: P180633  
 CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

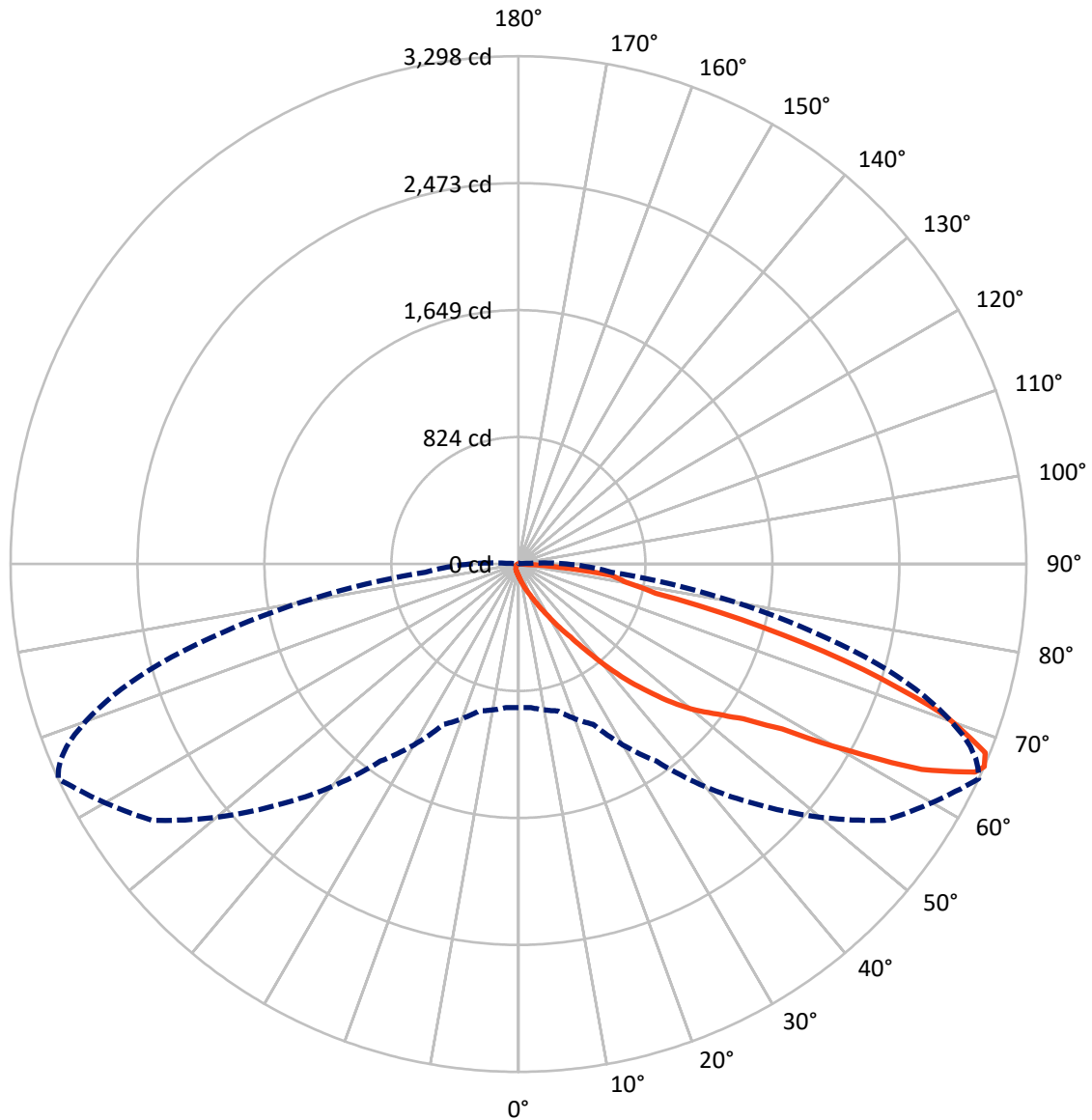
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P180633  
CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P180633

CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

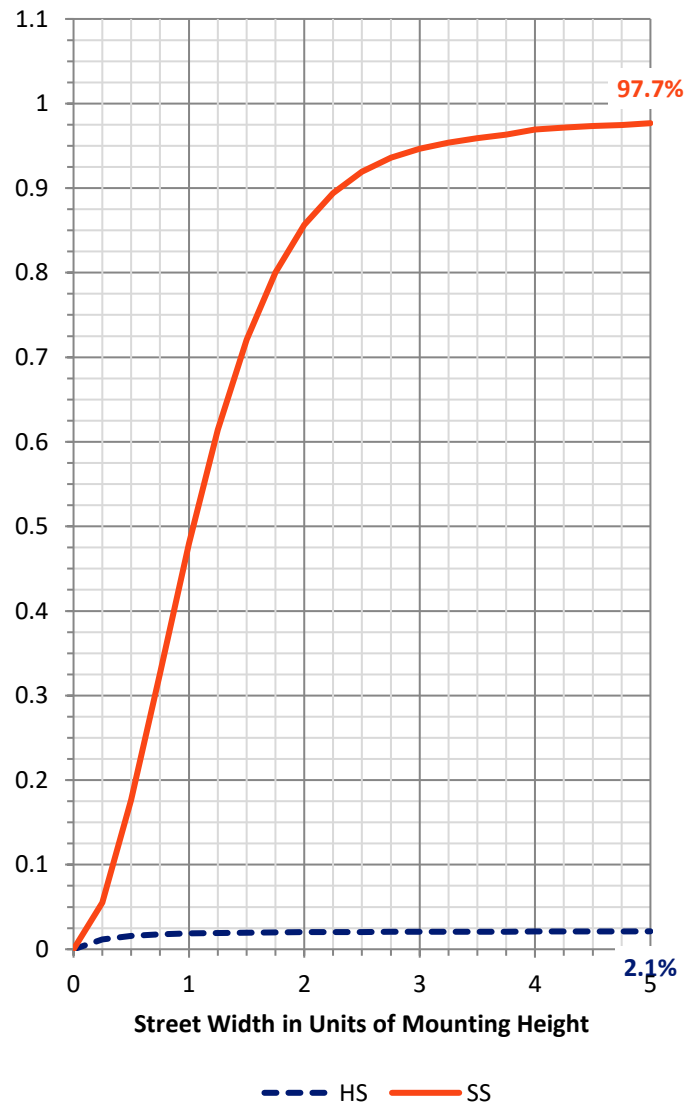
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	55.8	0.0	55.8
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	2520.7	0.0	2520.7
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	2576.5	0.0	2576.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.7	0.3
10°-20°	36.9	1.4
20°-30°	79.6	3.1
30°-40°	170.0	6.6
40°-50°	376.0	14.6
50°-60°	637.2	24.7
60°-70°	850.3	33.0
70°-80°	374.6	14.5
80°-90°	43.2	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°	2576.5	100.0
0°-180°	2576.5	100.0



REPORT NUMBER: P180633

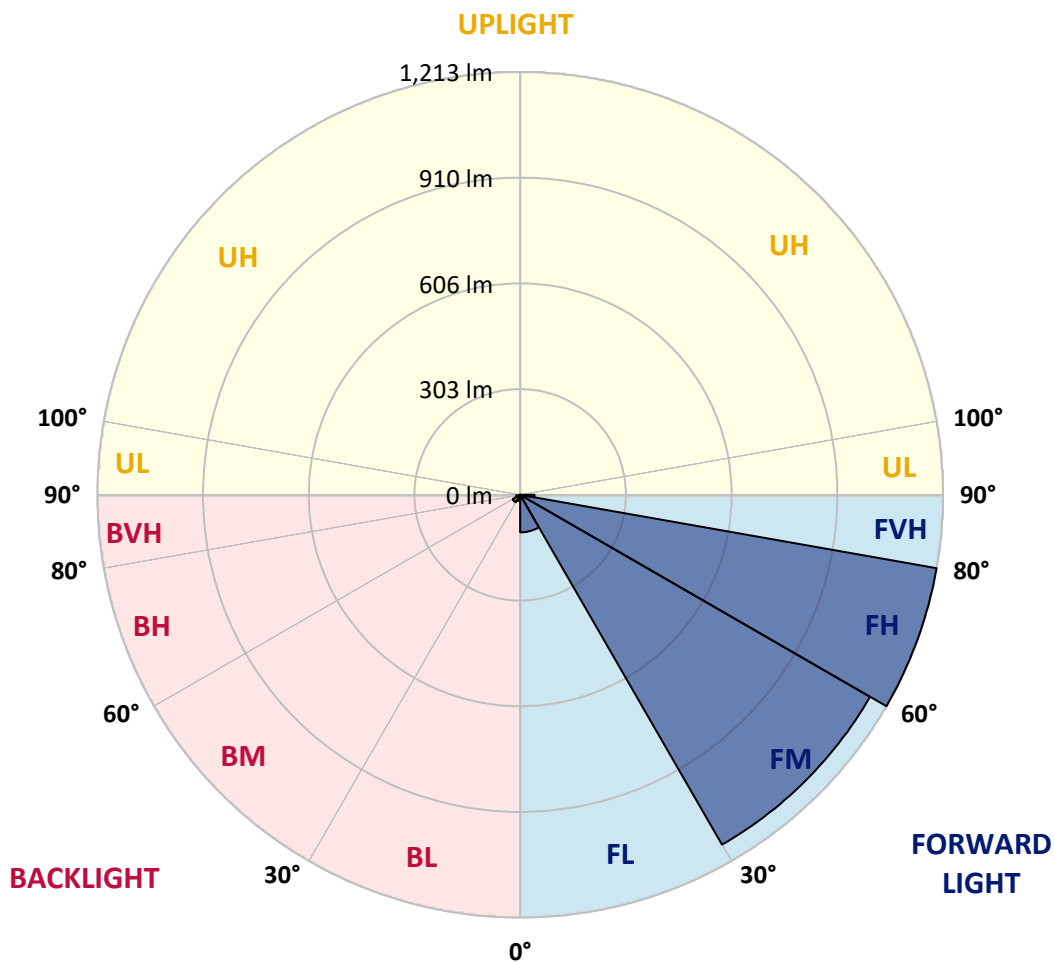
CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.6	4.2			
FM	(30°-60°)	1158.7	45.0			
FH	(60°-80°)	1212.9	47.1			G1/1800
FVH	(80°-90°)	41.4	1.6			G1/100
BL	(0°-30°)	17.6	0.7	B0/110		
BM	(30°-60°)	24.5	1.0	B0/220		
BH	(60°-80°)	12.0	0.5	B0/110		G0/110
BVH	(80°-90°)	1.7	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: P180633

CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	98.1	97.6	95.6	95.6	92.6	90.6	88.2	85.7	85.7	85.2	84.7
5°	129.8	126.8	126.3	120.9	116.4	110.0	104.0	96.1	95.1	94.1	93.6
7.5°	164.9	164.5	160.0	153.6	144.6	132.8	120.9	108.0	106.0	105.0	103.0
10°	210.5	208.0	202.1	191.2	177.8	162.0	142.7	122.3	119.9	117.9	116.9
12.5°	254.1	249.7	246.2	232.3	215.5	192.2	168.9	139.7	137.7	135.2	131.3
15°	294.7	290.8	284.8	272.9	254.1	224.9	197.6	162.0	157.0	153.6	150.6
17.5°	326.4	324.0	317.0	303.6	283.3	257.6	224.9	184.8	180.8	176.3	170.9
20°	356.6	353.2	342.3	324.0	302.2	282.3	257.1	214.5	209.0	203.6	197.6
22.5°	385.4	381.9	364.1	333.9	310.6	302.2	293.2	248.2	239.7	235.3	229.3
25°	425.5	418.1	390.3	342.3	311.1	317.5	332.9	291.8	283.8	277.4	268.0
27.5°	479.5	469.6	426.0	354.7	313.1	334.4	378.4	344.8	336.3	328.9	318.5
30°	540.4	534.0	482.0	384.4	327.4	359.1	429.5	412.1	402.2	393.3	380.9
32.5°	601.8	592.9	541.4	440.9	366.1	407.2	493.4	490.4	477.5	469.1	455.7
35°	655.8	651.4	613.2	533.5	454.2	491.4	578.6	582.0	570.6	561.7	546.9
37.5°	692.5	692.5	685.1	633.0	594.4	622.1	703.9	704.4	693.0	672.7	665.2
40°	711.3	716.8	743.5	753.4	751.4	787.1	868.3	859.4	850.0	839.6	814.8
42.5°	749.9	754.9	811.9	880.2	924.8	971.9	1027.8	1024.9	1013.5	994.6	971.9
45°	815.3	821.8	889.6	998.1	1089.8	1156.6	1192.3	1178.4	1167.0	1149.2	1137.3
47.5°	898.6	910.9	987.7	1121.9	1232.4	1342.9	1380.0	1343.4	1333.5	1319.6	1300.3
50°	987.2	999.1	1080.8	1234.4	1359.2	1491.0	1552.9	1491.0	1476.6	1472.2	1450.4
52.5°	1064.0	1073.9	1152.7	1321.1	1456.3	1610.9	1701.0	1619.3	1608.9	1594.0	1578.2
55°	1109.6	1117.5	1191.3	1362.7	1522.2	1718.8	1844.2	1772.3	1757.0	1751.0	1728.2
57.5°	1124.9	1132.8	1199.2	1368.1	1557.9	1817.4	2018.0	2020.5	2002.2	1980.9	1973.9
60°	1124.9	1133.8	1189.8	1354.8	1592.5	1922.4	2249.8	2456.4	2416.8	2412.8	2387.5
62.5°	1078.4	1086.8	1143.2	1313.6	1639.1	2064.1	2572.8	2937.4	2926.0	2900.2	2858.6
65°	977.3	982.3	1037.7	1208.6	1621.3	2194.4	2852.7	3257.4	3239.0	3188.5	3135.0
66°	931.7	935.7	987.7	1148.7	1562.8	2212.2	2902.2	3297.5	3267.3	3224.7	3164.2
67.5°	865.9	872.8	909.4	1037.2	1422.6	2150.3	2871.0	3269.3	3243.0	3191.5	3131.1
70°	578.1	573.1	702.4	796.0	1083.8	1752.0	2575.8	2935.4	2935.9	2911.6	2887.3
72.5°	274.4	277.4	315.0	489.9	709.3	1170.5	2050.2	2343.0	2376.7	2333.1	2302.8
75°	197.1	201.6	224.4	299.7	423.0	702.4	1329.0	1638.6	1639.6	1562.3	1493.5
77.5°	57.5	59.9	84.2	184.8	317.0	474.0	763.3	910.9	889.6	834.2	782.1
80°	23.8	23.8	24.8	58.9	127.3	322.0	534.0	701.4	698.9	677.6	646.9
82.5°	8.9	9.4	11.9	24.3	30.2	79.3	356.2	608.8	607.3	577.1	555.3
85°	1.0	1.0	3.0	10.4	11.4	14.9	71.3	268.5	267.0	268.5	235.3
87.5°	0.0	0.0	0.5	1.0	1.5	2.0	3.0	10.4	11.4	10.9	9.9
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: P180633

CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	84.7	83.7	83.7	83.2	83.2	83.2	82.7	82.2	82.2	81.7	81.2
5°	92.6	91.6	91.1	90.2	89.7	89.2	88.2	87.7	86.7	86.2	85.7
7.5°	102.0	100.1	99.6	98.1	96.6	95.6	94.6	93.1	92.1	90.2	89.7
10°	113.9	111.5	109.5	107.5	106.0	103.5	102.0	100.1	98.1	96.6	95.1
12.5°	129.3	125.8	122.8	120.9	117.4	114.4	111.5	110.0	106.0	104.0	101.5
15°	146.1	142.2	138.7	134.7	132.3	127.3	123.3	118.9	116.9	113.4	109.5
17.5°	167.9	161.5	156.0	152.1	147.1	142.2	137.7	133.2	127.3	123.3	118.4
20°	191.2	185.8	178.3	171.4	165.4	159.5	153.1	147.1	141.7	135.2	129.3
22.5°	220.9	213.0	204.1	197.1	189.2	182.8	173.9	165.9	157.0	148.6	141.7
25°	258.6	248.2	239.7	229.8	220.4	210.5	199.6	189.7	178.3	170.4	158.5
27.5°	305.1	295.2	283.8	271.0	261.5	246.7	232.3	219.9	206.6	194.2	180.8
30°	364.6	350.2	338.3	325.9	307.1	292.7	275.9	259.1	240.7	228.4	208.0
32.5°	435.9	420.5	402.7	384.9	367.5	347.2	326.4	305.6	285.3	262.5	241.7
35°	523.1	504.8	484.4	465.1	438.4	416.6	390.3	361.6	338.8	312.6	286.3
37.5°	638.5	608.3	590.4	570.1	534.0	504.3	475.0	446.3	406.2	378.4	341.3
40°	783.1	765.3	736.1	703.4	670.7	631.6	591.9	553.8	507.2	468.6	425.5
42.5°	953.0	926.8	897.1	850.0	816.8	770.8	725.7	675.2	618.2	568.7	518.1
45°	1112.5	1081.3	1058.5	1011.5	976.8	922.3	867.8	814.3	748.5	684.6	626.1
47.5°	1284.9	1259.2	1221.5	1183.4	1148.2	1086.8	1027.8	962.9	893.6	817.8	742.0
50°	1436.5	1416.2	1390.4	1344.4	1305.2	1253.7	1184.4	1113.5	1025.9	950.6	864.4
52.5°	1565.3	1549.4	1513.3	1480.6	1445.4	1396.9	1334.9	1267.1	1172.5	1089.8	991.7
55°	1717.4	1706.0	1674.3	1653.9	1622.7	1576.2	1518.2	1455.3	1355.3	1265.1	1154.1
57.5°	1966.5	1957.6	1929.9	1921.4	1890.7	1850.1	1778.8	1711.4	1594.5	1482.6	1355.8
60°	2379.1	2361.3	2320.7	2299.9	2235.0	2180.5	2087.9	1995.2	1854.1	1711.4	1558.8
62.5°	2821.0	2770.9	2693.7	2627.3	2535.2	2440.5	2316.7	2175.0	2009.6	1840.2	1664.8
65°	3059.2	2974.0	2876.5	2770.9	2651.6	2512.4	2356.3	2186.4	2008.6	1829.8	1644.5
66°	3086.5	2990.4	2886.9	2769.5	2636.7	2488.6	2330.1	2151.8	1967.0	1792.6	1607.4
67.5°	3052.3	2951.7	2842.3	2712.0	2568.3	2414.8	2248.4	2063.1	1885.3	1708.4	1528.1
70°	2813.0	2713.0	2615.4	2478.2	2325.1	2170.6	2013.1	1806.0	1637.6	1475.1	1314.6
72.5°	2246.4	2178.5	2081.9	1964.5	1815.4	1634.1	1502.9	1317.6	1171.5	1014.0	889.6
75°	1403.8	1308.2	1188.8	1039.2	925.3	778.2	701.4	560.7	477.5	404.7	334.4
77.5°	717.8	645.9	562.2	478.0	397.3	317.0	245.2	173.4	116.9	81.2	60.4
80°	592.9	529.5	460.2	383.4	312.1	242.2	174.4	118.9	75.8	49.5	38.6
82.5°	489.9	436.4	374.5	303.1	241.2	190.2	132.3	86.2	53.5	34.7	27.2
85°	208.5	189.2	146.1	115.9	87.2	64.4	45.1	30.2	21.3	17.3	15.9
87.5°	8.9	9.9	9.4	7.4	5.4	5.4	5.0	4.0	4.0	4.0	4.0
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: P180633

CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
2.5°	81.2	80.7	80.2	80.2	79.8	79.3	76.3	73.8	70.8	68.9	66.9
5°	84.7	84.2	83.2	82.7	81.7	81.2	74.8	69.3	64.9	61.4	58.9
7.5°	88.2	87.7	86.2	84.7	84.2	83.2	72.8	65.9	59.9	56.0	53.5
10°	92.6	91.1	89.7	87.7	86.2	84.7	70.8	61.9	55.5	52.0	49.5
12.5°	99.1	96.6	94.1	91.6	89.7	87.2	69.8	58.5	52.0	48.0	45.6
15°	106.5	103.0	100.1	97.1	93.6	91.1	67.9	55.5	49.0	45.1	42.1
17.5°	113.4	109.5	105.0	100.6	97.1	93.6	65.9	52.5	46.1	42.1	39.1
20°	123.3	117.4	111.9	106.5	101.5	97.1	62.9	49.5	43.6	39.1	36.2
22.5°	134.2	127.3	120.4	112.9	106.5	100.6	60.4	47.1	41.1	36.7	33.2
25°	148.1	139.7	130.3	120.9	113.4	105.5	58.0	44.6	38.6	34.2	30.7
27.5°	167.4	155.5	145.1	133.2	121.9	112.9	56.0	42.6	36.2	31.7	28.2
30°	193.7	176.3	160.0	147.1	133.7	120.9	54.0	40.1	34.2	29.2	25.3
32.5°	222.9	202.6	183.8	164.5	147.6	132.8	52.0	38.1	31.7	26.7	23.3
35°	259.1	233.3	208.0	185.8	165.4	145.6	50.0	36.2	29.7	24.3	20.8
37.5°	311.1	278.9	245.7	217.0	190.7	164.5	48.5	34.2	27.2	21.8	18.3
40°	382.4	340.8	300.2	261.0	226.9	194.2	46.6	32.2	25.3	19.8	16.3
42.5°	459.7	409.2	355.7	311.6	264.5	223.4	44.6	30.2	23.3	17.8	14.4
45°	555.8	492.9	428.0	368.0	310.6	257.6	42.6	28.2	20.8	15.9	12.4
47.5°	660.8	580.5	507.2	431.9	363.6	300.2	40.1	26.7	18.8	13.9	10.9
50°	768.8	684.1	591.4	505.7	424.5	342.8	37.6	24.3	16.8	12.4	8.9
52.5°	885.2	785.1	690.5	584.0	489.4	398.8	35.2	22.3	15.4	10.9	7.4
55°	1033.3	921.3	810.4	691.0	577.1	463.6	32.7	19.8	13.4	9.4	5.9
57.5°	1219.5	1086.8	950.6	815.8	677.6	548.8	30.7	17.3	11.4	7.9	5.0
60°	1395.4	1240.3	1075.4	920.3	764.3	614.2	27.7	15.4	9.9	6.4	5.0
62.5°	1486.5	1309.7	1131.9	961.0	794.5	637.5	24.8	12.9	8.4	5.4	4.5
65°	1464.2	1283.9	1111.5	939.2	776.2	622.6	21.8	11.4	7.4	5.0	4.5
66°	1432.0	1253.7	1080.3	916.4	760.8	606.8	20.3	10.9	6.9	5.0	4.0
67.5°	1361.7	1189.3	1023.9	871.3	718.7	576.6	18.3	9.9	6.4	4.5	4.0
70°	1163.1	1006.5	874.3	738.6	614.2	485.9	14.9	8.4	5.4	4.0	4.0
72.5°	769.8	663.3	575.1	494.8	413.6	321.0	12.4	6.9	4.5	4.0	3.5
75°	290.3	262.5	225.4	202.6	176.8	155.0	9.9	4.5	3.5	3.5	3.5
77.5°	51.5	47.6	42.1	38.6	35.7	32.7	7.9	3.0	3.0	3.5	3.5
80°	34.7	32.2	29.2	26.7	24.8	22.3	5.4	2.5	3.0	3.0	3.5
82.5°	24.8	23.3	21.8	19.8	18.3	16.3	3.5	2.5	3.0	3.0	3.0
85°	14.9	13.9	12.9	11.9	10.4	9.9	2.5	2.5	2.5	3.0	3.0
87.5°	4.0	3.5	4.0	4.0	3.0	3.5	2.0	2.0	2.0	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: P180633

CATALOG NUMBER: ICS-F02-LED-E1-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	77.8	77.8	77.8	77.8	77.8
2.5°	65.9	65.9	64.9	66.4	66.4
5°	57.0	57.0	56.5	57.0	57.0
7.5°	52.0	51.5	51.5	51.5	52.0
10°	47.6	47.1	47.1	47.1	47.1
12.5°	43.6	43.1	42.6	43.1	43.1
15°	40.1	39.1	39.1	39.1	39.1
17.5°	37.2	36.2	35.7	35.7	35.7
20°	34.2	32.7	32.7	32.7	32.7
22.5°	31.2	29.7	29.7	29.7	29.7
25°	28.2	26.7	26.7	26.7	26.7
27.5°	25.8	24.3	24.3	24.3	24.3
30°	22.8	21.8	21.8	22.3	21.8
32.5°	20.8	19.3	19.3	19.8	19.8
35°	18.3	17.3	17.3	17.3	17.3
37.5°	15.9	14.9	14.9	14.9	14.9
40°	13.9	12.9	12.4	12.9	12.9
42.5°	11.9	10.9	10.4	10.4	10.4
45°	10.4	8.9	8.4	8.9	8.9
47.5°	8.4	7.4	7.4	7.9	7.9
50°	6.4	6.4	6.9	7.9	7.9
52.5°	5.9	5.9	6.9	7.9	7.9
55°	5.4	5.9	6.9	7.4	7.9
57.5°	5.0	5.9	6.9	7.4	7.4
60°	5.0	5.4	6.4	7.4	7.4
62.5°	4.5	5.0	5.9	6.9	6.9
65°	4.5	5.0	5.9	6.9	6.9
66°	4.5	5.0	5.9	6.9	6.9
67.5°	4.5	5.0	5.9	6.9	6.9
70°	4.5	5.0	5.9	6.4	6.4
72.5°	4.0	4.5	5.4	6.4	6.4
75°	4.0	4.5	5.4	6.4	6.4
77.5°	4.0	4.5	5.4	6.4	6.4
80°	4.0	4.5	5.4	5.9	6.4
82.5°	3.5	4.5	5.0	5.9	5.9
85°	3.5	4.0	5.0	5.4	5.9
87.5°	3.0	3.5	4.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)