

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: P180653

Luminaire Tested: **ICS-F04-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180653  
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-F04-LED-E1-SL3-HSS  
Description: ICON SITE SMALL LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

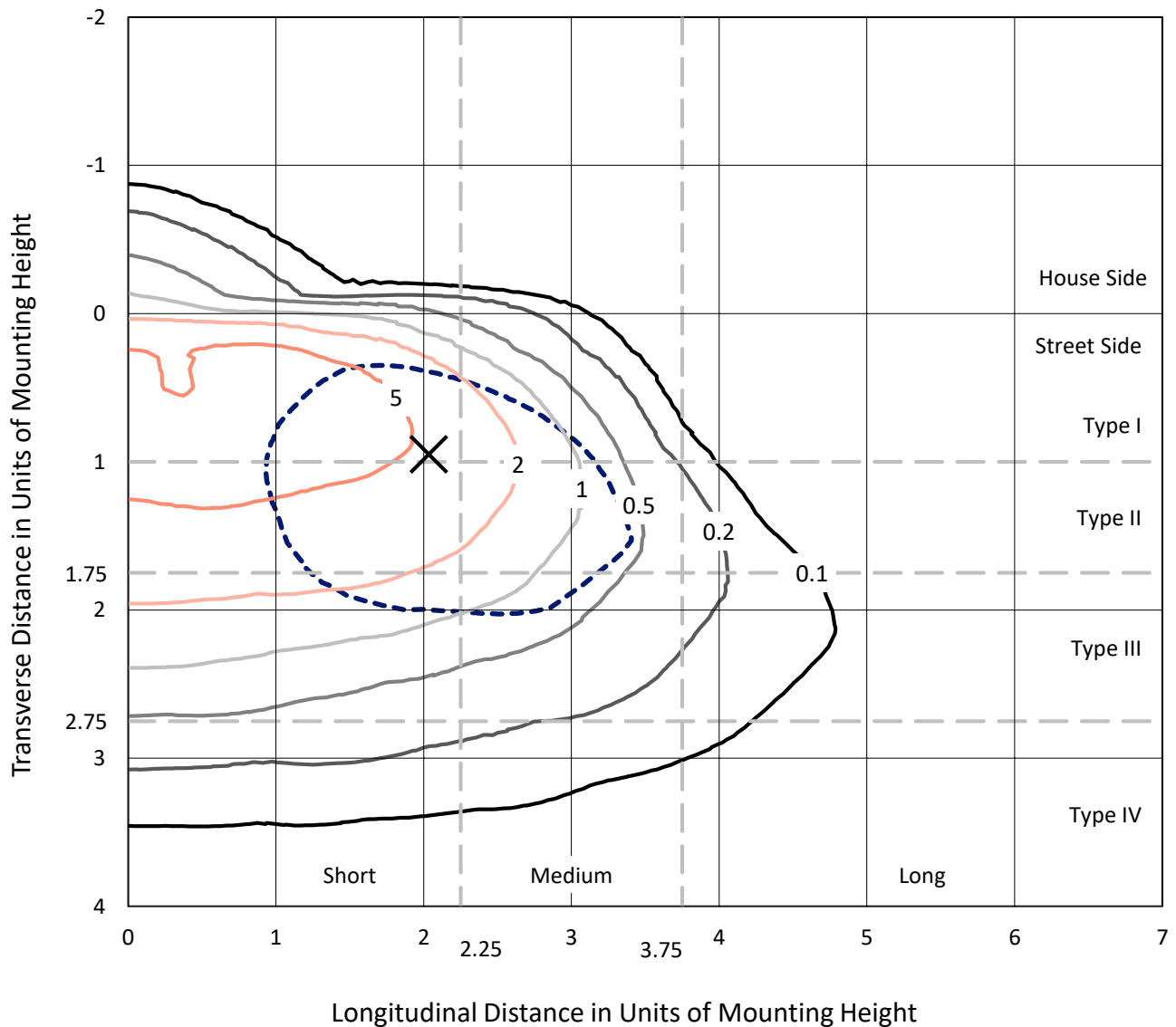
Lumens per Lamp: N/A  
Luminaire Lumens: 5153 lumens  
Efficiency: N/A  
Efficacy: 50.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 102.2  
Input Voltage (V): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

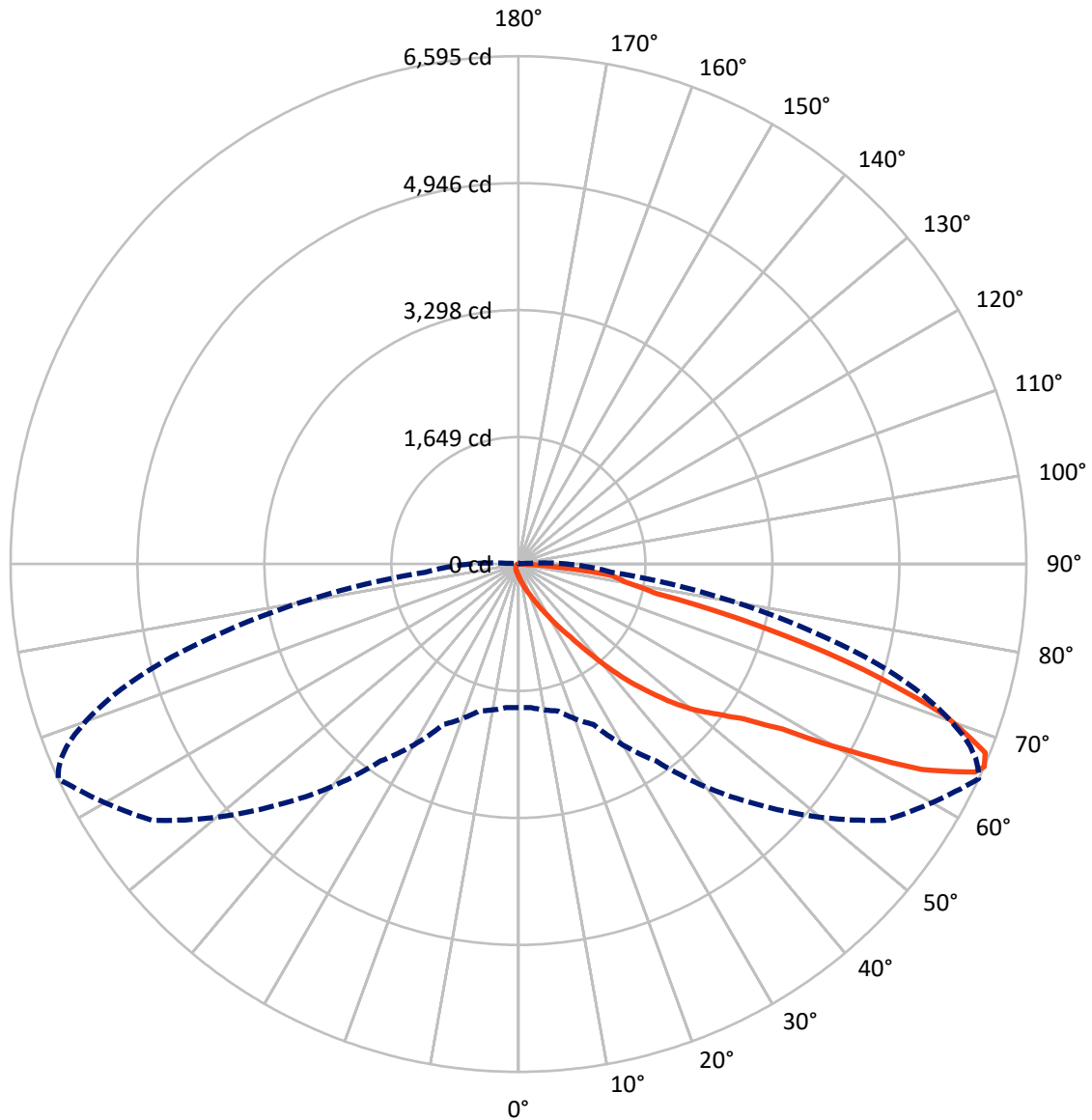
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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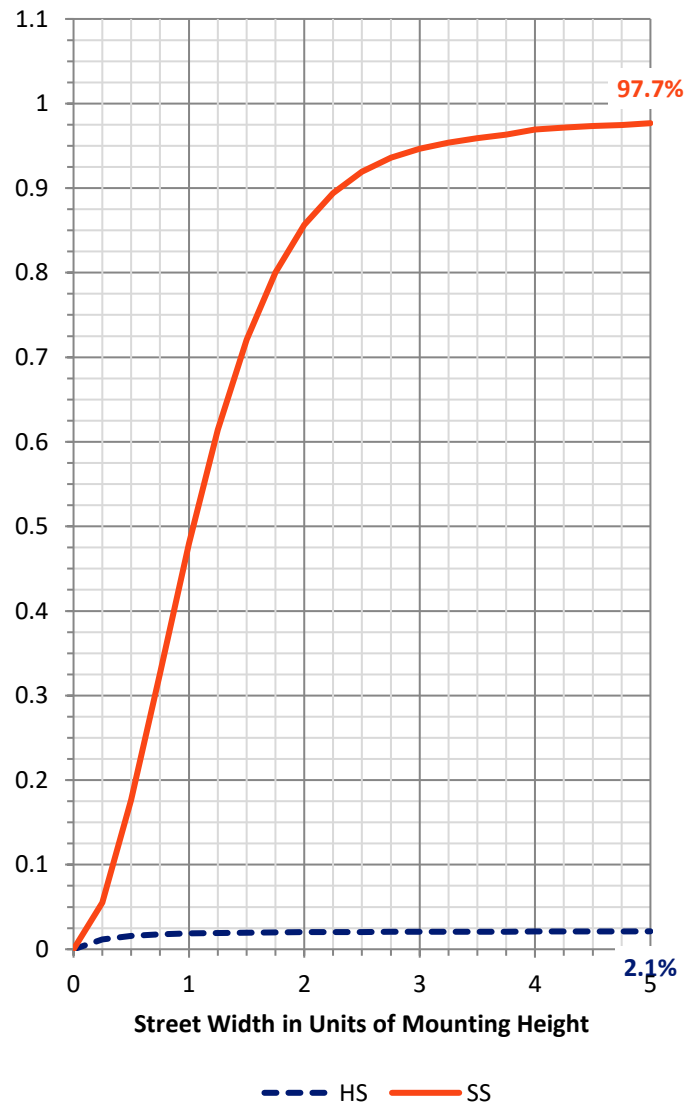
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	111.7	0.0	111.7
	% Fixture	2.2	0.0	2.2
<b>Street Side</b>	Lumens	5041.3	0.0	5041.3
	% Fixture	97.8	0.0	97.8
<b>Total</b>	Lumens	5153.0	0.0	5153.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.4	0.3
10°-20°	73.8	1.4
20°-30°	159.2	3.1
30°-40°	340.1	6.6
40°-50°	752.0	14.6
50°-60°	1274.4	24.7
60°-70°	1700.6	33.0
70°-80°	749.1	14.5
80°-90°	86.3	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°	5153.0	100.0
0°-180°	5153.0	100.0



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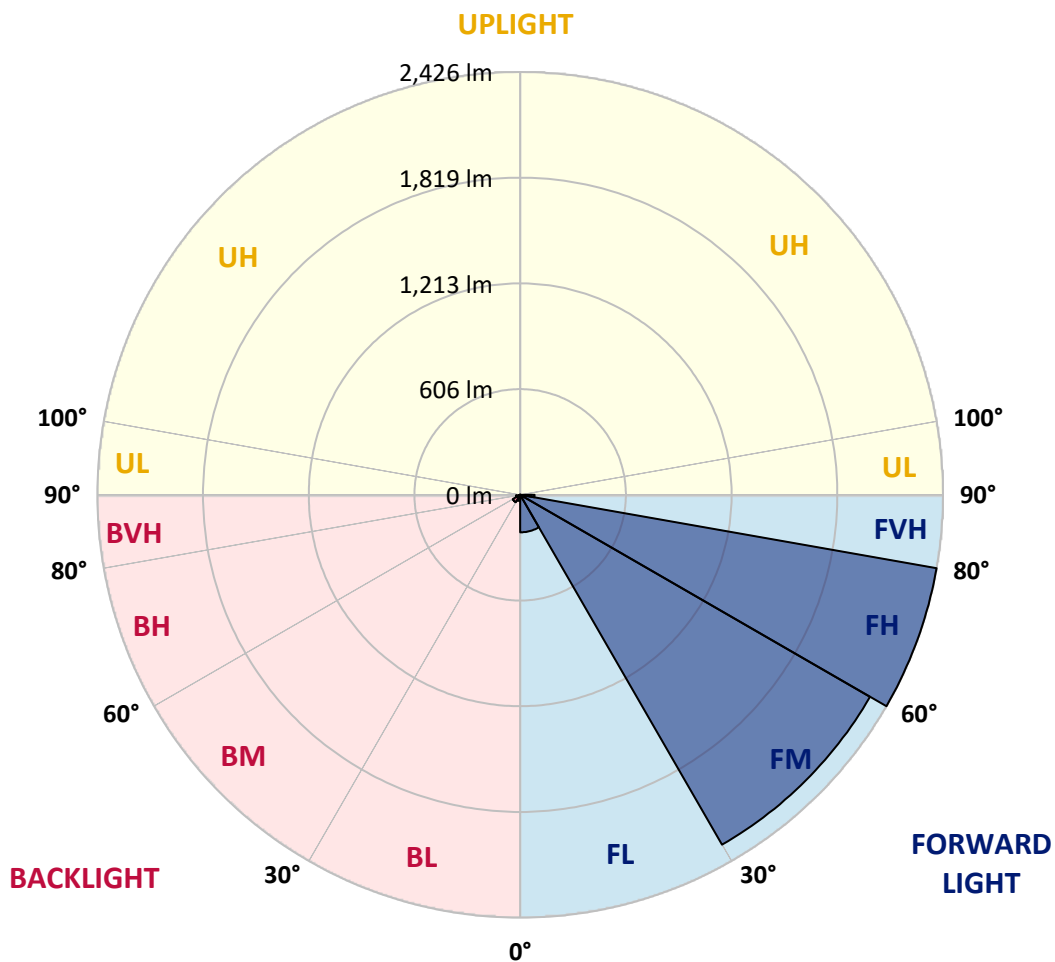
CATALOG NUMBER: ICS-F04-LED-E1-SL3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.2	4.2			
FM	(30°-60°)	2317.5	45.0			
FH	(60°-80°)	2425.8	47.1			G2/5000
FVH	(80°-90°)	82.8	1.6			G1/100
BL	(0°-30°)	35.2	0.7	B0/110		
BM	(30°-60°)	49.0	1.0	B0/220		
BH	(60°-80°)	23.9	0.5	B0/110		G0/110
BVH	(80°-90°)	3.4	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5
2.5°	196.2	195.2	191.2	191.2	185.3	181.3	176.3	171.4	171.4	170.4	169.4
5°	259.6	253.6	252.6	241.7	232.8	219.9	208.0	192.2	190.2	188.2	187.2
7.5°	329.9	328.9	320.0	307.1	289.3	265.5	241.7	216.0	212.0	210.0	206.1
10°	421.0	416.1	404.2	382.4	355.7	324.0	285.3	244.7	239.7	235.8	233.8
12.5°	508.2	499.3	492.4	464.6	430.9	384.4	337.8	279.4	275.4	270.5	262.5
15°	589.5	581.5	569.6	545.9	508.2	449.8	395.3	324.0	314.0	307.1	301.2
17.5°	652.9	647.9	634.0	607.3	566.7	515.2	449.8	369.5	361.6	352.7	341.8
20°	713.3	706.4	684.6	647.9	604.3	564.7	514.2	429.0	418.1	407.2	395.3
22.5°	770.8	763.8	728.2	667.7	621.2	604.3	586.5	496.3	479.5	470.6	458.7
25°	851.0	836.1	780.7	684.6	622.1	635.0	665.7	583.5	567.7	554.8	536.0
27.5°	959.0	939.2	852.0	709.3	626.1	668.7	756.9	689.5	672.7	657.8	637.0
30°	1080.8	1068.0	963.9	768.8	654.8	718.2	858.9	824.2	804.4	786.6	761.8
32.5°	1203.7	1185.8	1082.8	881.7	732.1	814.3	986.7	980.8	955.0	938.2	911.4
35°	1311.7	1302.7	1226.5	1067.0	908.5	982.8	1157.1	1164.1	1141.3	1123.4	1093.7
37.5°	1385.0	1385.0	1370.1	1266.1	1188.8	1244.3	1407.8	1408.8	1386.0	1345.3	1330.5
40°	1422.6	1433.5	1487.0	1506.8	1502.9	1574.2	1736.7	1718.8	1700.0	1679.2	1629.7
42.5°	1499.9	1509.8	1623.7	1760.4	1849.6	1943.7	2055.7	2049.7	2026.9	1989.3	1943.7
45°	1630.7	1643.5	1779.3	1996.2	2179.5	2313.2	2384.6	2356.8	2334.1	2298.4	2274.6
47.5°	1797.1	1821.9	1975.4	2243.9	2464.8	2685.7	2760.0	2686.7	2666.9	2639.2	2600.5
50°	1974.4	1998.2	2161.7	2468.8	2718.4	2982.0	3105.8	2982.0	2953.2	2944.3	2900.7
52.5°	2128.0	2147.8	2305.3	2642.2	2912.6	3221.7	3402.0	3238.5	3217.7	3188.0	3156.3
55°	2219.1	2235.0	2382.6	2725.4	3044.4	3437.7	3688.3	3544.7	3514.0	3502.1	3456.5
57.5°	2249.8	2265.7	2398.4	2736.3	3115.7	3634.8	4036.0	4041.0	4004.3	3961.7	3947.9
60°	2249.8	2267.7	2379.6	2709.5	3185.0	3844.8	4499.7	4912.8	4833.5	4825.6	4775.1
62.5°	2156.7	2173.6	2286.5	2627.3	3278.2	4128.2	5145.6	5874.8	5852.0	5800.5	5717.2
65°	1954.6	1964.5	2075.5	2417.3	3242.5	4388.7	5705.3	6514.7	6478.1	6377.0	6270.0
66°	1863.5	1871.4	1975.4	2297.4	3125.6	4424.4	5804.4	6595.0	6534.6	6449.4	6328.5
67.5°	1731.7	1745.6	1818.9	2074.5	2845.2	4300.6	5742.0	6538.5	6486.0	6383.0	6262.1
70°	1156.1	1146.2	1404.8	1592.0	2167.6	3504.0	5151.6	5870.8	5871.8	5823.2	5774.7
72.5°	548.8	554.8	630.1	979.8	1418.7	2341.0	4100.4	4685.9	4753.3	4666.1	4605.7
75°	394.3	403.2	448.8	599.4	846.0	1404.8	2658.0	3277.2	3279.2	3124.6	2986.9
77.5°	114.9	119.9	168.4	369.5	634.0	948.1	1526.6	1821.9	1779.3	1668.3	1564.3
80°	47.6	47.6	49.5	117.9	254.6	643.9	1068.0	1402.8	1397.9	1355.3	1293.8
82.5°	17.8	18.8	23.8	48.5	60.4	158.5	712.3	1217.6	1214.6	1154.1	1110.6
85°	2.0	2.0	5.9	20.8	22.8	29.7	142.7	537.0	534.0	537.0	470.6
87.5°	0.0	0.0	1.0	2.0	3.0	4.0	5.9	20.8	22.8	21.8	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5
2.5°	169.4	167.4	167.4	166.4	166.4	166.4	165.4	164.5	164.5	163.5	162.5
5°	185.3	183.3	182.3	180.3	179.3	178.3	176.3	175.4	173.4	172.4	171.4
7.5°	204.1	200.1	199.1	196.2	193.2	191.2	189.2	186.2	184.3	180.3	179.3
10°	227.9	222.9	218.9	215.0	212.0	207.1	204.1	200.1	196.2	193.2	190.2
12.5°	258.6	251.6	245.7	241.7	234.8	228.8	222.9	219.9	212.0	208.0	203.1
15°	292.3	284.3	277.4	269.5	264.5	254.6	246.7	237.8	233.8	226.9	218.9
17.5°	335.8	323.0	312.1	304.1	294.2	284.3	275.4	266.5	254.6	246.7	236.8
20°	382.4	371.5	356.6	342.8	330.9	319.0	306.1	294.2	283.3	270.5	258.6
22.5°	441.8	426.0	408.2	394.3	378.4	365.6	347.7	331.9	314.0	297.2	283.3
25°	517.1	496.3	479.5	459.7	440.9	421.0	399.2	379.4	356.6	340.8	317.0
27.5°	610.3	590.4	567.7	541.9	523.1	493.4	464.6	439.9	413.1	388.3	361.6
30°	729.1	700.4	676.6	651.9	614.2	585.5	551.8	518.1	481.5	456.7	416.1
32.5°	871.8	841.1	805.4	769.8	735.1	694.5	652.9	611.3	570.6	525.1	483.5
35°	1046.2	1009.5	968.9	930.3	876.8	833.2	780.7	723.2	677.6	625.1	572.6
37.5°	1277.0	1216.6	1180.9	1140.3	1068.0	1008.5	950.1	892.6	812.4	756.9	682.6
40°	1566.3	1530.6	1472.2	1406.8	1341.4	1263.1	1183.9	1107.6	1014.5	937.2	851.0
42.5°	1906.1	1853.6	1794.1	1700.0	1633.6	1541.5	1451.4	1350.3	1236.4	1137.3	1036.3
45°	2225.1	2162.7	2117.1	2023.0	1953.6	1844.7	1735.7	1628.7	1496.9	1369.1	1252.2
47.5°	2569.8	2518.3	2443.0	2366.7	2296.4	2173.6	2055.7	1925.9	1787.2	1635.6	1484.0
50°	2873.0	2832.4	2780.8	2688.7	2610.5	2507.4	2368.7	2227.1	2051.7	1901.1	1728.7
52.5°	3130.6	3098.9	3026.5	2961.2	2890.8	2793.7	2669.9	2534.2	2344.9	2179.5	1983.3
55°	3434.7	3411.9	3348.5	3307.9	3245.5	3152.4	3036.4	2910.6	2710.5	2530.2	2308.3
57.5°	3933.0	3915.2	3859.7	3842.9	3781.4	3700.2	3557.5	3422.8	3189.0	2965.1	2711.5
60°	4758.3	4722.6	4641.4	4599.7	4470.0	4361.0	4175.7	3990.5	3708.1	3422.8	3117.7
62.5°	5641.9	5541.9	5387.3	5254.6	5070.3	4881.1	4633.4	4350.1	4019.2	3680.4	3329.7
65°	6118.5	5948.1	5752.9	5541.9	5303.1	5024.7	4712.7	4372.9	4017.2	3659.6	3289.1
66°	6173.0	5980.8	5773.7	5538.9	5273.4	4977.2	4660.2	4303.5	3934.0	3585.3	3214.8
67.5°	6104.6	5903.5	5684.5	5424.0	5136.7	4829.6	4496.7	4126.2	3770.5	3416.9	3056.3
70°	5626.1	5426.0	5230.8	4956.4	4650.3	4341.2	4026.1	3612.0	3275.2	2950.3	2629.3
72.5°	4492.8	4357.0	4163.8	3929.1	3630.9	3268.3	3005.7	2635.2	2343.0	2027.9	1779.3
75°	2807.6	2616.4	2377.6	2078.5	1850.6	1556.4	1402.8	1121.5	955.0	809.4	668.7
77.5°	1435.5	1291.9	1124.4	956.0	794.5	634.0	490.4	346.7	233.8	162.5	120.9
80°	1185.8	1059.0	920.3	766.8	624.1	484.4	348.7	237.8	151.6	99.1	77.3
82.5°	979.8	872.8	749.0	606.3	482.5	380.4	264.5	172.4	107.0	69.3	54.5
85°	417.1	378.4	292.3	231.8	174.4	128.8	90.2	60.4	42.6	34.7	31.7
87.5°	17.8	19.8	18.8	14.9	10.9	10.9	9.9	7.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5	155.5
2.5°	162.5	161.5	160.5	160.5	159.5	158.5	152.6	147.6	141.7	137.7	133.7
5°	169.4	168.4	166.4	165.4	163.5	162.5	149.6	138.7	129.8	122.8	117.9
7.5°	176.3	175.4	172.4	169.4	168.4	166.4	145.6	131.8	119.9	111.9	107.0
10°	185.3	182.3	179.3	175.4	172.4	169.4	141.7	123.8	111.0	104.0	99.1
12.5°	198.1	193.2	188.2	183.3	179.3	174.4	139.7	116.9	104.0	96.1	91.1
15°	213.0	206.1	200.1	194.2	187.2	182.3	135.7	111.0	98.1	90.2	84.2
17.5°	226.9	218.9	210.0	201.1	194.2	187.2	131.8	105.0	92.1	84.2	78.3
20°	246.7	234.8	223.9	213.0	203.1	194.2	125.8	99.1	87.2	78.3	72.3
22.5°	268.5	254.6	240.7	225.9	213.0	201.1	120.9	94.1	82.2	73.3	66.4
25°	296.2	279.4	260.5	241.7	226.9	211.0	115.9	89.2	77.3	68.4	61.4
27.5°	334.9	311.1	290.3	266.5	243.7	225.9	111.9	85.2	72.3	63.4	56.5
30°	387.4	352.7	320.0	294.2	267.5	241.7	108.0	80.2	68.4	58.5	50.5
32.5°	445.8	405.2	367.5	328.9	295.2	265.5	104.0	76.3	63.4	53.5	46.6
35°	518.1	466.6	416.1	371.5	330.9	291.3	100.1	72.3	59.4	48.5	41.6
37.5°	622.1	557.8	491.4	433.9	381.4	328.9	97.1	68.4	54.5	43.6	36.7
40°	764.8	681.6	600.4	522.1	453.7	388.3	93.1	64.4	50.5	39.6	32.7
42.5°	919.4	818.3	711.3	623.1	529.0	446.8	89.2	60.4	46.6	35.7	28.7
45°	1111.5	985.7	856.0	736.1	621.2	515.2	85.2	56.5	41.6	31.7	24.8
47.5°	1321.6	1161.1	1014.5	863.9	727.2	600.4	80.2	53.5	37.6	27.7	21.8
50°	1537.5	1368.1	1182.9	1011.5	849.0	685.6	75.3	48.5	33.7	24.8	17.8
52.5°	1770.4	1570.2	1381.0	1168.0	978.8	797.5	70.3	44.6	30.7	21.8	14.9
55°	2066.6	1842.7	1620.8	1382.0	1154.1	927.3	65.4	39.6	26.7	18.8	11.9
57.5°	2439.1	2173.6	1901.1	1631.7	1355.3	1097.7	61.4	34.7	22.8	15.9	9.9
60°	2790.8	2480.7	2150.8	1840.7	1528.6	1228.4	55.5	30.7	19.8	12.9	9.9
62.5°	2973.0	2619.4	2263.7	1921.9	1589.1	1275.0	49.5	25.8	16.8	10.9	8.9
65°	2928.5	2567.9	2223.1	1878.3	1552.4	1245.3	43.6	22.8	14.9	9.9	8.9
66°	2864.1	2507.4	2160.7	1832.8	1521.7	1213.6	40.6	21.8	13.9	9.9	7.9
67.5°	2723.4	2378.6	2047.7	1742.6	1437.5	1153.2	36.7	19.8	12.9	8.9	7.9
70°	2326.1	2013.1	1748.6	1477.1	1228.4	971.9	29.7	16.8	10.9	7.9	7.9
72.5°	1539.5	1326.5	1150.2	989.7	827.2	642.0	24.8	13.9	8.9	7.9	6.9
75°	580.5	525.1	450.8	405.2	353.7	310.1	19.8	8.9	6.9	6.9	6.9
77.5°	103.0	95.1	84.2	77.3	71.3	65.4	15.9	5.9	5.9	6.9	6.9
80°	69.3	64.4	58.5	53.5	49.5	44.6	10.9	5.0	5.9	5.9	6.9
82.5°	49.5	46.6	43.6	39.6	36.7	32.7	6.9	5.0	5.9	5.9	5.9
85°	29.7	27.7	25.8	23.8	20.8	19.8	5.0	5.0	5.0	5.9	5.9
87.5°	7.9	6.9	7.9	7.9	5.9	6.9	4.0	4.0	4.0	5.0	5.0
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: P180653

CATALOG NUMBER: ICS-F04-LED-E1-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	155.5	155.5	155.5	155.5	155.5
2.5°	131.8	131.8	129.8	132.8	132.8
5°	113.9	113.9	112.9	113.9	113.9
7.5°	104.0	103.0	103.0	103.0	104.0
10°	95.1	94.1	94.1	94.1	94.1
12.5°	87.2	86.2	85.2	86.2	86.2
15°	80.2	78.3	78.3	78.3	78.3
17.5°	74.3	72.3	71.3	71.3	71.3
20°	68.4	65.4	65.4	65.4	65.4
22.5°	62.4	59.4	59.4	59.4	59.4
25°	56.5	53.5	53.5	53.5	53.5
27.5°	51.5	48.5	48.5	48.5	48.5
30°	45.6	43.6	43.6	44.6	43.6
32.5°	41.6	38.6	38.6	39.6	39.6
35°	36.7	34.7	34.7	34.7	34.7
37.5°	31.7	29.7	29.7	29.7	29.7
40°	27.7	25.8	24.8	25.8	25.8
42.5°	23.8	21.8	20.8	20.8	20.8
45°	20.8	17.8	16.8	17.8	17.8
47.5°	16.8	14.9	14.9	15.9	15.9
50°	12.9	12.9	13.9	15.9	15.9
52.5°	11.9	11.9	13.9	15.9	15.9
55°	10.9	11.9	13.9	14.9	15.9
57.5°	9.9	11.9	13.9	14.9	14.9
60°	9.9	10.9	12.9	14.9	14.9
62.5°	8.9	9.9	11.9	13.9	13.9
65°	8.9	9.9	11.9	13.9	13.9
66°	8.9	9.9	11.9	13.9	13.9
67.5°	8.9	9.9	11.9	13.9	13.9
70°	8.9	9.9	11.9	12.9	12.9
72.5°	7.9	8.9	10.9	12.9	12.9
75°	7.9	8.9	10.9	12.9	12.9
77.5°	7.9	8.9	10.9	12.9	12.9
80°	7.9	8.9	10.9	11.9	12.9
82.5°	6.9	8.9	9.9	11.9	11.9
85°	6.9	7.9	9.9	10.9	11.9
87.5°	5.9	6.9	7.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)