

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: P180518

Luminaire Tested: **ICS-E01-LED-E1-SL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180518  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICS-E01-LED-E1-SL2  
Description: ICON SITE SMALL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2749.7 lumens  
Efficiency: N/A  
Efficacy: 111.3 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: B1 - U0 - G1

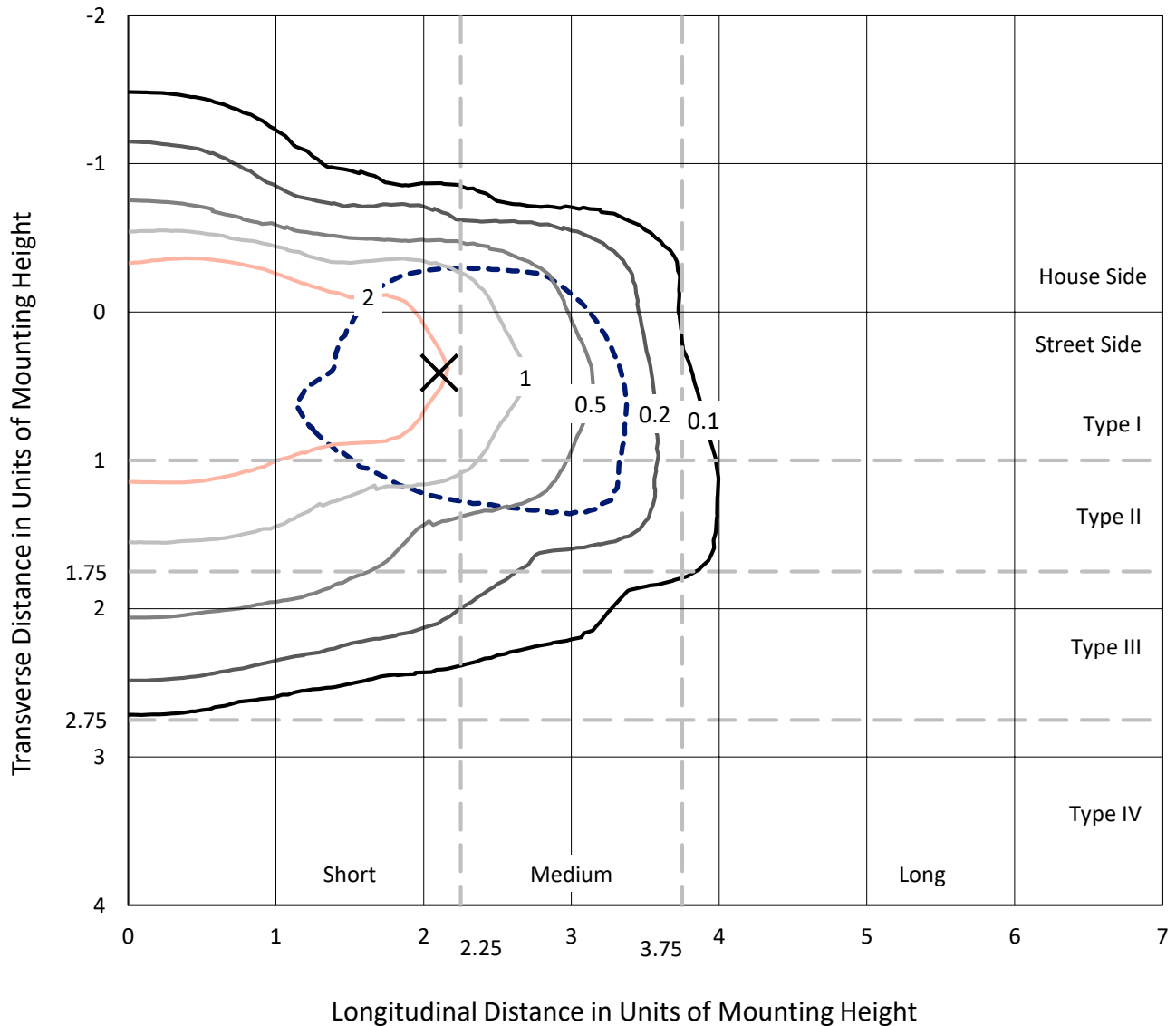
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

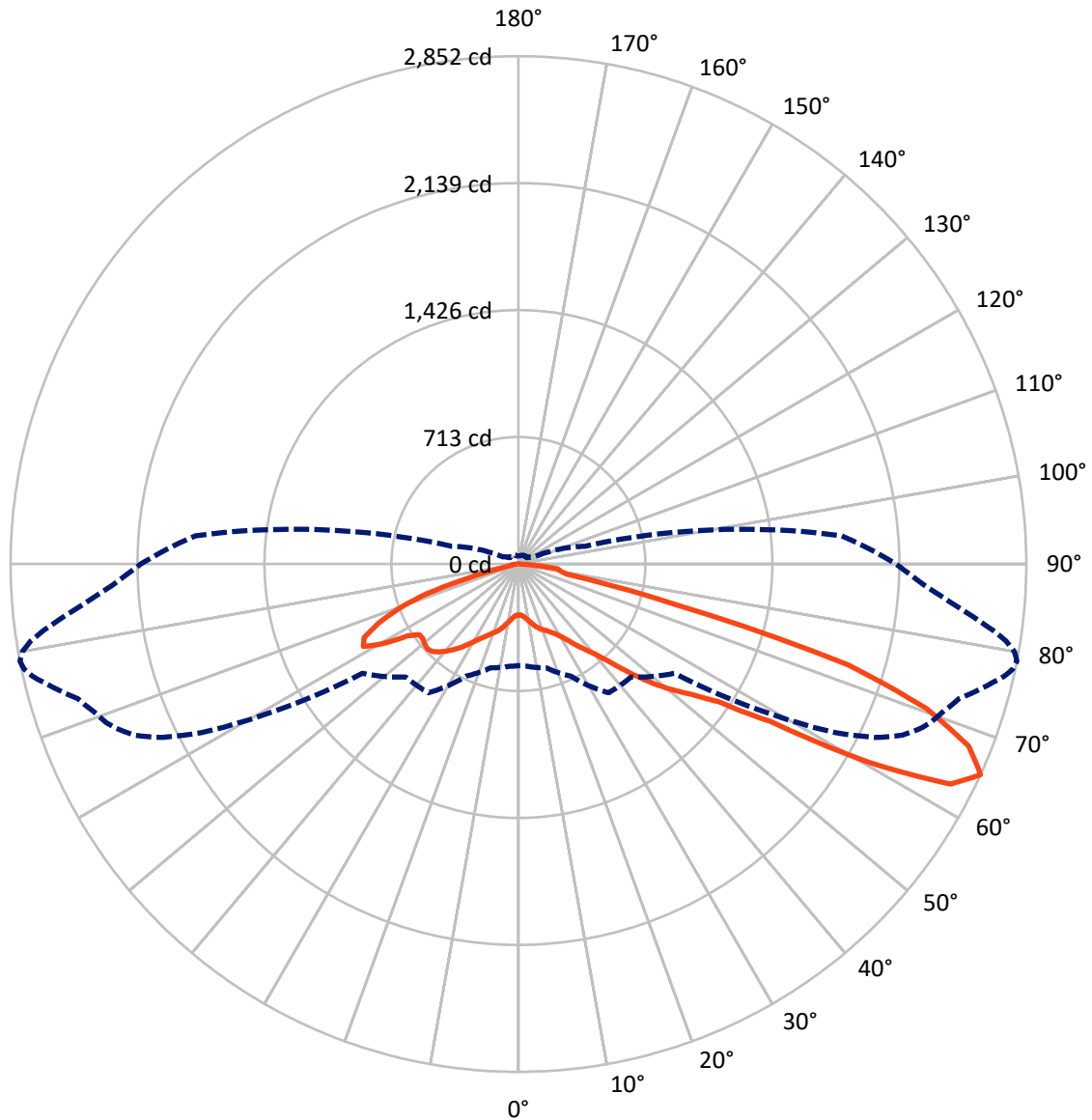
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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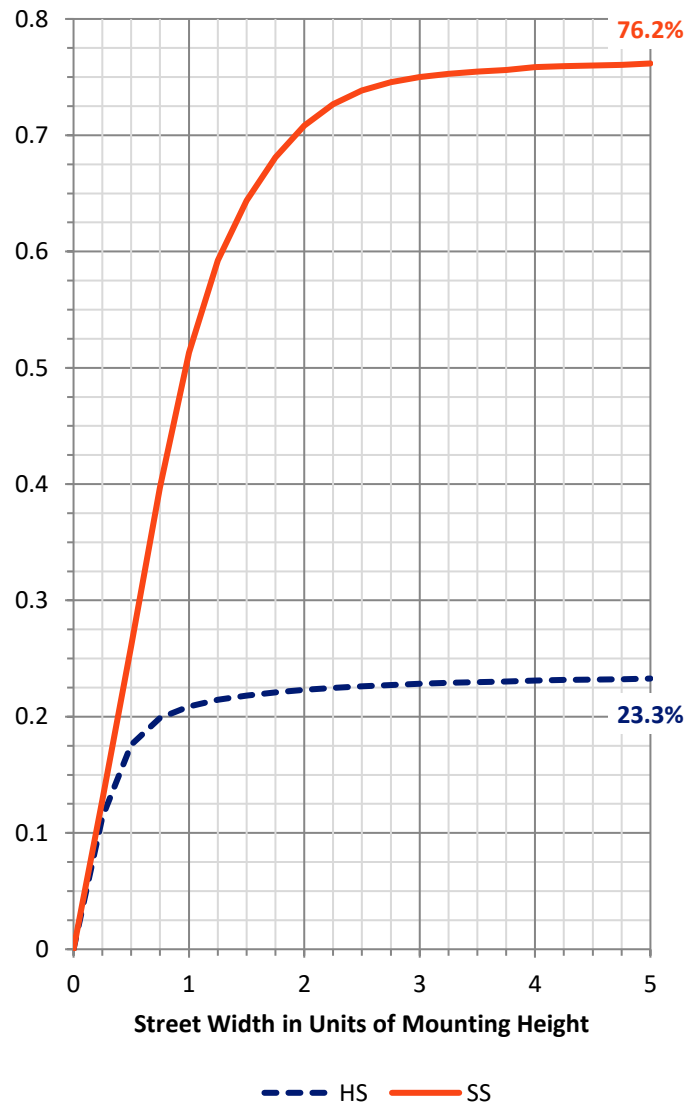
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	650.0	0.0	650.0
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	2099.7	0.0	2099.7
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	2749.7	0.0	2749.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.5	1.0
10°-20°	93.0	3.4
20°-30°	160.7	5.8
30°-40°	266.0	9.7
40°-50°	451.1	16.4
50°-60°	599.4	21.8
60°-70°	774.2	28.2
70°-80°	324.7	11.8
80°-90°	52.2	1.9
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°	2749.7	100.0
0°-180°	2749.7	100.0



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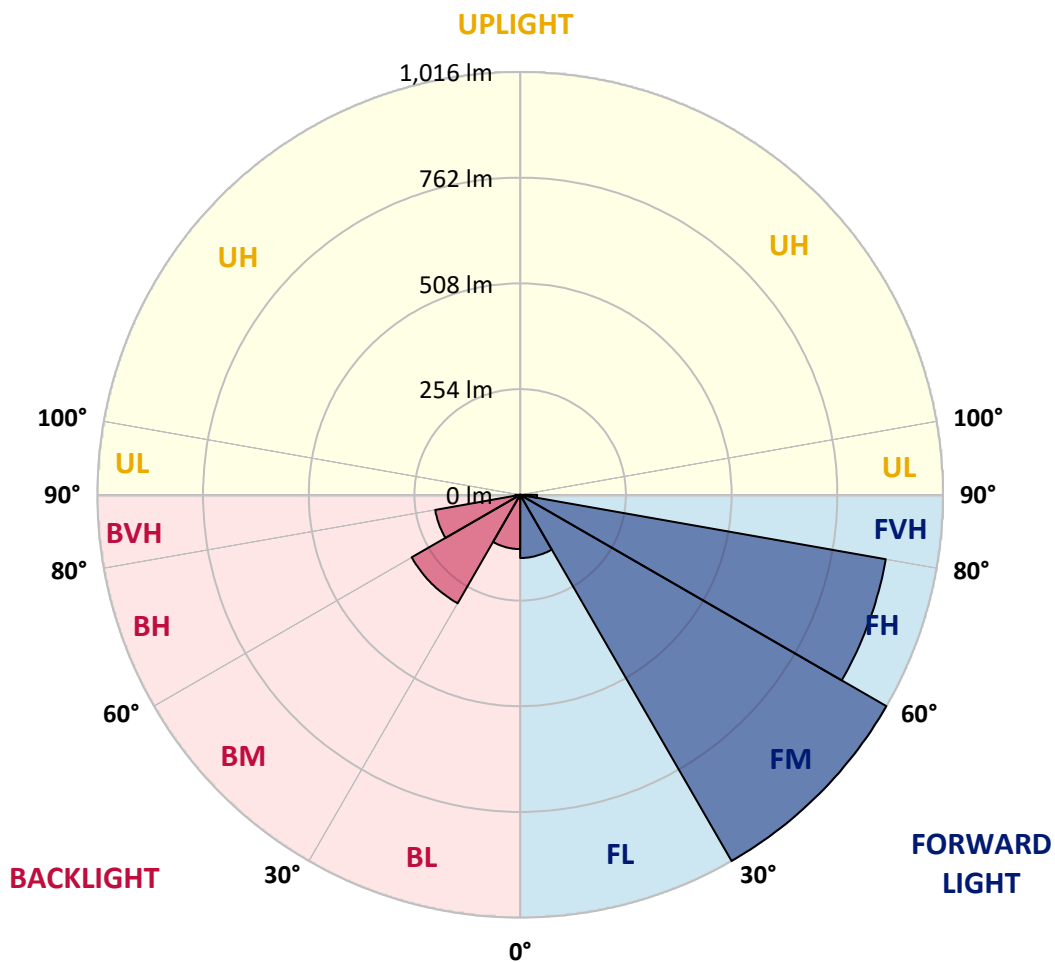
CATALOG NUMBER: ICS-E01-LED-E1-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	151.7	5.5			
FM (30°-60°)	1015.5	36.9			
FH (60°-80°)	891.6	32.4			G1/1800
FVH (80°-90°)	40.8	1.5			G1/100
BL (0°-30°)	130.4	4.7	B1/500		
BM (30°-60°)	300.9	10.9	B1/1000		
BH (60°-80°)	207.3	7.5	B1/500		G1/500
BVH (80°-90°)	11.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
2.5°	285.3	286.2	285.6	286.2	286.8	287.1	287.7	287.4	287.4	287.7	287.1
5°	285.3	285.3	286.2	287.7	288.3	290.1	292.2	291.9	292.2	291.9	292.5
7.5°	291.3	291.0	291.9	293.7	294.3	297.0	300.6	301.2	301.8	301.8	302.7
10°	301.8	301.5	302.4	303.3	304.2	306.3	311.4	313.5	313.8	314.1	315.3
12.5°	315.0	314.7	313.5	313.5	313.2	317.1	324.0	327.9	328.5	329.7	330.6
15°	324.3	323.4	321.6	320.4	321.9	328.2	338.4	342.9	343.5	344.4	346.8
17.5°	333.3	332.4	328.5	325.5	327.6	337.8	351.6	356.4	357.6	358.5	361.2
20°	345.9	345.3	339.6	332.4	331.8	345.0	361.8	368.1	369.0	370.2	372.9
22.5°	365.1	362.4	355.8	342.3	335.7	349.2	369.0	377.7	378.9	380.1	383.7
25°	389.1	387.9	376.5	355.8	342.0	353.4	376.8	387.6	389.4	390.9	395.7
27.5°	414.0	412.2	399.9	372.9	353.1	361.8	389.1	401.4	403.8	406.2	410.7
30°	436.2	435.6	425.4	396.0	371.1	377.7	408.9	423.9	426.6	429.6	433.8
32.5°	488.4	488.7	478.2	448.2	414.6	406.5	437.4	459.9	461.1	464.7	472.2
35°	588.3	589.5	585.6	561.9	524.1	490.8	493.8	516.0	517.2	520.2	527.4
37.5°	655.2	657.6	669.6	677.1	657.9	642.6	604.5	595.8	596.7	594.9	593.4
40°	692.1	695.7	727.2	766.2	787.2	787.5	771.0	732.6	717.9	713.7	695.7
42.5°	713.1	719.1	763.8	830.4	890.7	932.2	942.4	899.7	888.9	869.7	835.2
45°	726.9	734.1	786.9	878.1	967.0	1037.5	1090.6	1071.7	1064.5	1052.8	1021.0
47.5°	724.5	730.2	785.1	894.3	1006.9	1107.1	1201.3	1220.8	1212.1	1209.1	1187.5
50°	680.7	685.8	741.6	854.1	985.0	1133.5	1271.5	1326.7	1326.7	1332.4	1325.8
52.5°	633.9	638.1	688.8	789.9	914.1	1107.7	1310.5	1402.0	1414.0	1423.9	1439.5
55°	616.2	621.3	659.7	746.1	853.8	1033.9	1323.7	1458.4	1480.6	1497.4	1532.8
57.5°	624.6	629.7	657.0	722.4	818.4	958.6	1324.3	1534.3	1577.2	1611.7	1683.4
60°	660.9	665.7	688.5	744.3	809.1	915.0	1298.8	1655.2	1723.6	1788.4	1907.8
62.5°	644.1	650.1	683.4	780.6	878.4	882.0	1206.7	1748.8	1858.9	1954.6	2144.5
65°	570.6	576.9	603.0	693.9	882.6	896.4	1070.2	1750.6	1887.4	2016.7	2221.6
67.5°	433.2	435.6	456.3	529.2	705.9	912.3	929.8	1543.3	1673.5	1817.8	2029.3
70°	221.4	225.6	231.6	292.2	454.5	753.9	798.9	1137.4	1303.3	1452.4	1706.5
72.5°	76.8	78.3	84.3	111.6	221.4	494.7	699.3	779.4	879.6	1019.2	1313.5
75°	46.2	46.2	48.3	56.4	101.1	257.7	622.2	636.6	650.1	696.9	889.5
77.5°	36.6	37.2	37.2	38.7	56.1	132.3	472.5	591.9	593.7	598.2	630.6
80°	26.1	27.3	29.7	30.9	36.3	72.6	265.2	519.6	555.0	572.1	595.8
82.5°	19.5	20.7	25.2	26.7	28.2	40.5	119.1	358.5	423.0	457.2	540.6
85°	8.7	10.2	17.1	18.9	19.8	21.6	55.8	102.0	117.3	131.7	173.7
87.5°	1.5	1.5	2.7	3.9	5.7	5.4	12.3	17.4	17.7	20.7	23.1
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
2.5°	287.1	287.1	287.1	286.8	287.1	287.1	287.1	287.1	287.4	287.4	287.4
5°	293.4	292.8	293.1	293.1	293.1	292.8	293.4	293.1	293.4	294.3	294.0
7.5°	302.7	303.3	303.6	303.9	303.9	303.9	304.2	304.8	304.8	305.7	305.4
10°	316.5	316.2	316.5	317.4	318.3	318.6	319.5	319.2	319.8	321.0	322.2
12.5°	331.2	331.8	332.7	333.6	335.1	335.4	336.3	336.6	338.4	338.4	339.6
15°	347.7	348.0	349.8	350.1	351.9	352.5	354.0	354.6	356.7	357.0	358.2
17.5°	362.7	363.3	364.2	365.1	367.2	368.1	369.3	370.5	372.3	372.9	375.0
20°	374.7	375.9	376.2	378.0	379.8	381.0	382.2	383.4	385.2	386.1	388.2
22.5°	385.5	386.7	387.6	389.1	390.3	392.1	392.7	394.8	396.6	398.1	399.9
25°	397.2	399.0	399.9	402.6	403.5	405.3	406.8	408.9	411.3	413.1	415.5
27.5°	413.7	416.4	417.6	420.6	422.7	423.6	426.0	429.0	431.1	433.2	435.6
30°	436.5	441.6	442.5	444.6	448.5	449.1	452.1	454.5	457.8	459.9	462.0
32.5°	471.9	478.2	478.8	481.2	484.5	485.7	488.1	490.8	495.9	496.8	500.1
35°	526.2	528.9	531.3	532.2	534.9	536.4	538.2	541.2	546.3	545.7	549.3
37.5°	591.3	592.2	592.5	589.5	590.1	587.4	590.7	591.3	593.1	594.6	598.2
40°	684.3	675.0	673.8	666.6	659.4	655.5	654.0	648.0	649.5	650.1	653.1
42.5°	820.2	802.2	787.2	777.0	759.3	750.6	738.9	729.6	722.4	725.1	726.3
45°	992.5	966.7	942.7	911.4	888.3	871.8	851.1	832.5	824.1	820.2	825.0
47.5°	1164.4	1141.6	1113.4	1081.3	1044.7	1017.4	982.9	952.6	931.6	923.8	928.0
50°	1312.9	1291.9	1270.6	1251.7	1209.1	1179.4	1132.3	1093.0	1060.0	1043.2	1038.7
52.5°	1436.2	1425.1	1413.7	1397.8	1363.6	1333.9	1296.4	1257.7	1213.9	1179.7	1168.0
55°	1546.3	1552.9	1547.2	1547.5	1534.0	1515.1	1483.3	1454.5	1423.9	1385.2	1369.0
57.5°	1706.8	1745.8	1753.6	1773.1	1782.7	1792.9	1801.9	1784.8	1777.0	1748.2	1748.5
60°	1959.7	2016.7	2066.2	2111.2	2148.1	2184.1	2221.9	2238.7	2257.3	2266.0	2295.7
62.5°	2228.8	2283.1	2356.9	2417.2	2451.1	2497.9	2539.0	2565.7	2598.4	2633.2	2678.5
65°	2295.4	2360.8	2407.3	2447.5	2481.1	2506.0	2528.5	2560.3	2587.6	2642.8	2696.2
67.5°	2124.7	2176.9	2219.5	2259.1	2285.2	2306.2	2326.3	2347.3	2394.1	2444.2	2497.9
70°	1823.8	1886.8	1957.3	2008.6	2021.5	2039.5	2058.7	2086.0	2109.4	2161.9	2202.7
72.5°	1465.3	1555.9	1615.6	1686.7	1702.0	1729.3	1740.1	1761.4	1765.6	1794.1	1804.9
75°	1021.3	1125.1	1185.1	1237.3	1247.5	1232.5	1238.5	1163.2	1144.0	1128.4	1115.8
77.5°	674.1	702.0	711.6	703.2	663.0	631.5	597.9	564.9	568.5	541.8	495.0
80°	599.4	605.7	597.0	588.6	565.5	532.5	502.2	471.3	456.0	439.8	415.8
82.5°	583.2	607.5	610.2	600.0	581.7	545.7	509.1	463.2	424.2	388.2	351.6
85°	195.0	237.3	256.2	273.9	279.3	285.6	264.0	234.6	199.2	175.5	137.4
87.5°	24.9	30.9	35.7	30.6	35.7	42.0	30.3	33.9	34.2	21.3	15.9
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
2.5°	287.7	287.4	287.4	287.4	287.1	287.4	287.4	287.4	287.4	287.4	287.1
5°	294.3	294.3	295.2	295.5	294.9	294.6	294.9	295.2	295.2	294.9	295.2
7.5°	306.6	306.9	307.5	308.4	307.8	308.1	308.4	308.1	309.0	309.3	309.0
10°	322.2	322.8	324.3	324.6	324.3	325.5	325.8	325.2	325.8	325.8	327.0
12.5°	340.2	340.8	342.6	343.2	343.8	344.1	345.0	345.3	346.2	346.8	347.7
15°	359.7	360.3	361.5	363.6	364.2	364.8	365.4	367.2	367.5	368.7	369.6
17.5°	376.2	377.1	378.9	380.4	381.3	382.8	383.4	385.5	386.1	387.9	389.4
20°	389.4	390.9	392.4	394.2	395.7	397.5	398.1	400.2	401.4	402.3	404.1
22.5°	401.4	403.2	405.3	407.4	408.6	411.0	411.9	412.8	415.5	416.7	418.5
25°	417.0	418.8	421.2	423.9	425.1	428.1	429.0	430.5	433.5	434.7	437.4
27.5°	438.3	440.7	442.5	445.2	446.7	448.8	450.9	452.7	455.4	457.2	460.2
30°	465.0	466.8	469.8	471.9	474.3	477.3	479.7	481.5	483.0	485.7	489.0
32.5°	504.3	504.6	505.5	510.6	513.0	515.4	518.7	520.2	522.6	525.3	528.9
35°	553.2	555.9	558.0	560.4	563.1	565.8	567.0	571.5	573.6	577.2	580.8
37.5°	601.8	602.1	606.9	608.4	610.8	613.5	617.7	622.2	627.6	631.2	636.9
40°	654.0	656.4	662.4	665.4	668.4	675.0	678.3	685.5	694.5	699.6	709.2
42.5°	729.6	733.2	744.0	748.8	756.0	766.8	773.7	783.6	787.2	799.5	804.0
45°	828.6	839.7	855.3	865.5	878.4	890.1	896.1	900.6	906.0	915.6	914.4
47.5°	935.8	950.2	967.6	988.6	997.0	1010.8	1018.6	1027.3	1022.5	1020.1	1017.7
50°	1045.6	1062.4	1085.5	1104.4	1117.3	1125.7	1132.3	1131.1	1120.9	1115.5	1100.5
52.5°	1167.7	1177.6	1199.5	1215.7	1223.5	1225.3	1223.8	1214.8	1205.2	1188.1	1170.4
55°	1354.9	1350.4	1359.1	1366.6	1364.2	1372.6	1351.0	1342.6	1318.9	1296.7	1273.0
57.5°	1735.3	1741.3	1692.7	1670.8	1666.9	1674.7	1636.6	1631.8	1574.5	1567.3	1527.4
60°	2291.5	2320.9	2282.8	2261.5	2203.9	2185.0	2142.4	2124.7	2069.8	2025.4	1969.3
62.5°	2709.7	2736.4	2752.3	2722.0	2688.4	2638.9	2574.4	2503.0	2444.8	2376.7	2317.3
65°	2747.5	2801.6	2838.2	2852.3	2828.6	2774.3	2694.7	2604.7	2515.6	2430.1	2355.1
67.5°	2570.8	2619.1	2675.8	2726.5	2729.5	2694.1	2626.3	2534.8	2431.9	2326.3	2238.4
70°	2267.2	2327.8	2377.3	2430.7	2467.9	2447.5	2413.6	2329.6	2222.8	2140.6	2039.5
72.5°	1843.9	1869.4	1881.4	1933.9	1934.5	1897.3	1873.3	1826.8	1740.7	1682.5	1605.4
75°	1076.8	1020.7	961.0	909.0	866.7	849.0	770.4	757.2	704.4	671.7	623.7
77.5°	444.0	393.9	329.4	275.7	222.6	198.6	163.8	148.5	128.7	120.0	114.3
80°	380.7	333.3	284.7	238.2	196.8	155.4	120.9	93.9	73.8	62.7	58.2
82.5°	310.8	282.3	248.4	223.2	190.8	159.9	135.0	104.7	78.3	57.6	44.1
85°	112.2	92.1	74.1	68.1	54.3	44.7	37.5	32.1	26.4	21.0	18.6
87.5°	12.6	12.0	6.9	6.6	7.5	5.4	6.3	5.7	4.8	4.2	4.5
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: P180518

CATALOG NUMBER: ICS-E01-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
2.5°	287.1	287.1	287.4	287.4	287.7	288.0	288.6	288.3	288.3	288.6	288.6
5°	295.2	296.1	295.8	295.8	295.8	296.1	296.4	295.2	294.0	292.8	292.2
7.5°	309.3	309.9	310.5	309.9	310.5	310.2	309.6	306.3	302.4	297.6	294.3
10°	327.6	327.6	328.2	327.9	329.1	328.2	326.4	318.9	310.5	300.3	292.8
12.5°	347.4	349.5	348.6	348.9	351.3	348.9	344.7	333.6	318.6	302.1	288.9
15°	370.8	371.7	372.3	371.4	372.9	370.8	363.3	345.6	323.7	300.6	281.1
17.5°	390.0	390.3	390.6	391.2	393.3	390.9	378.0	354.0	324.9	293.7	267.9
20°	405.0	406.5	407.7	407.7	410.7	407.1	390.0	358.2	321.0	282.3	251.1
22.5°	420.6	421.8	423.3	423.6	427.5	423.9	399.9	357.3	310.8	266.1	231.6
25°	439.8	441.0	442.2	443.7	449.1	444.0	409.8	353.7	296.7	246.9	210.6
27.5°	462.0	464.7	465.6	468.0	474.3	466.5	418.2	348.3	281.1	224.7	188.4
30°	491.7	495.0	496.2	499.5	508.2	491.1	423.0	339.0	261.3	202.2	164.7
32.5°	531.6	536.1	539.7	543.3	553.2	515.7	423.6	325.5	238.2	177.0	141.9
35°	583.8	590.7	593.4	595.8	605.1	542.4	420.9	305.4	210.0	151.2	123.9
37.5°	642.3	649.2	651.0	652.2	654.0	565.2	414.3	274.8	178.2	128.7	109.5
40°	714.3	720.3	722.7	720.9	711.3	582.9	399.6	239.1	147.3	113.4	100.5
42.5°	802.2	811.2	812.1	804.0	772.2	592.8	370.2	197.1	123.0	102.3	93.6
45°	911.1	910.5	905.4	899.7	838.5	588.9	329.1	160.5	107.7	93.6	87.3
47.5°	1009.0	998.8	991.0	974.2	897.0	566.1	276.0	132.9	98.4	87.0	81.9
50°	1089.1	1070.5	1054.0	1035.7	940.6	525.6	223.2	112.8	89.7	81.3	76.8
52.5°	1152.4	1129.9	1110.7	1092.7	982.6	480.6	183.0	98.1	81.3	75.6	71.1
55°	1251.4	1228.9	1198.3	1178.5	1046.8	439.2	156.9	86.4	73.2	69.6	65.1
57.5°	1501.9	1482.1	1445.5	1394.2	1211.8	423.6	142.2	77.4	66.6	64.5	60.9
60°	1939.3	1907.2	1859.5	1807.3	1547.2	434.1	130.5	71.1	62.1	60.3	57.6
62.5°	2269.3	2212.9	2158.9	2110.6	1815.4	433.8	115.2	66.3	58.8	57.9	55.2
65°	2282.8	2225.5	2171.2	2120.5	1821.4	386.1	97.2	62.1	58.2	57.9	53.4
67.5°	2161.6	2099.5	2047.0	1983.1	1686.1	301.8	78.0	59.4	60.6	60.0	52.8
70°	1963.6	1882.6	1839.4	1776.4	1483.9	211.2	64.2	60.3	65.7	63.9	53.7
72.5°	1541.2	1480.0	1414.3	1370.5	1161.7	133.5	54.0	60.9	67.8	64.8	56.1
75°	573.6	590.1	563.1	553.5	590.1	78.3	48.0	56.7	60.6	56.1	51.0
77.5°	115.8	110.7	105.0	103.8	134.1	48.3	44.1	49.2	46.5	41.1	41.4
80°	55.5	54.0	52.2	51.9	49.8	40.2	40.8	42.0	35.1	31.8	33.9
82.5°	36.9	34.8	34.2	33.0	33.6	36.0	38.7	36.0	27.0	25.2	30.6
85°	17.1	16.5	16.2	16.2	18.0	32.4	32.1	26.4	18.6	18.0	30.6
87.5°	4.2	4.2	4.5	4.2	4.8	9.6	8.4	8.1	6.9	7.8	14.4
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):**

	165°	175°	180°
0°	286.2	286.2	286.2
2.5°	288.3	288.6	288.3
5°	291.0	291.0	291.0
7.5°	291.0	290.1	289.8
10°	286.8	284.1	284.1
12.5°	279.6	275.1	274.5
15°	266.1	260.1	259.2
17.5°	249.0	240.9	239.4
20°	229.8	219.6	217.8
22.5°	208.8	197.1	196.2
25°	188.1	176.1	173.7
27.5°	165.0	153.3	152.1
30°	141.9	131.7	131.1
32.5°	122.4	116.1	114.9
35°	108.6	105.0	103.5
37.5°	99.6	96.9	96.6
40°	92.7	90.3	90.0
42.5°	87.0	84.9	84.6
45°	81.3	79.5	78.9
47.5°	75.6	73.8	73.5
50°	70.5	68.1	67.8
52.5°	65.7	63.3	62.7
55°	61.2	58.8	58.8
57.5°	57.3	54.9	54.6
60°	53.7	51.3	51.0
62.5°	51.0	48.0	47.7
65°	48.9	45.9	45.3
67.5°	47.7	44.1	43.2
70°	49.8	43.2	41.7
72.5°	50.1	42.3	40.2
75°	48.3	39.9	38.4
77.5°	42.3	35.7	34.2
80°	36.6	27.6	25.5
82.5°	34.8	22.5	19.5
85°	27.0	14.7	13.8
87.5°	15.3	8.1	6.6
90°	0.0	0.0	0.0

(END OF REPORT)