

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: P180523

Luminaire Tested: **ICS-F01-LED-E1-SL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180523  
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-F01-LED-E1-SL2  
Description: ICON SITE SMALL LED LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2270 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

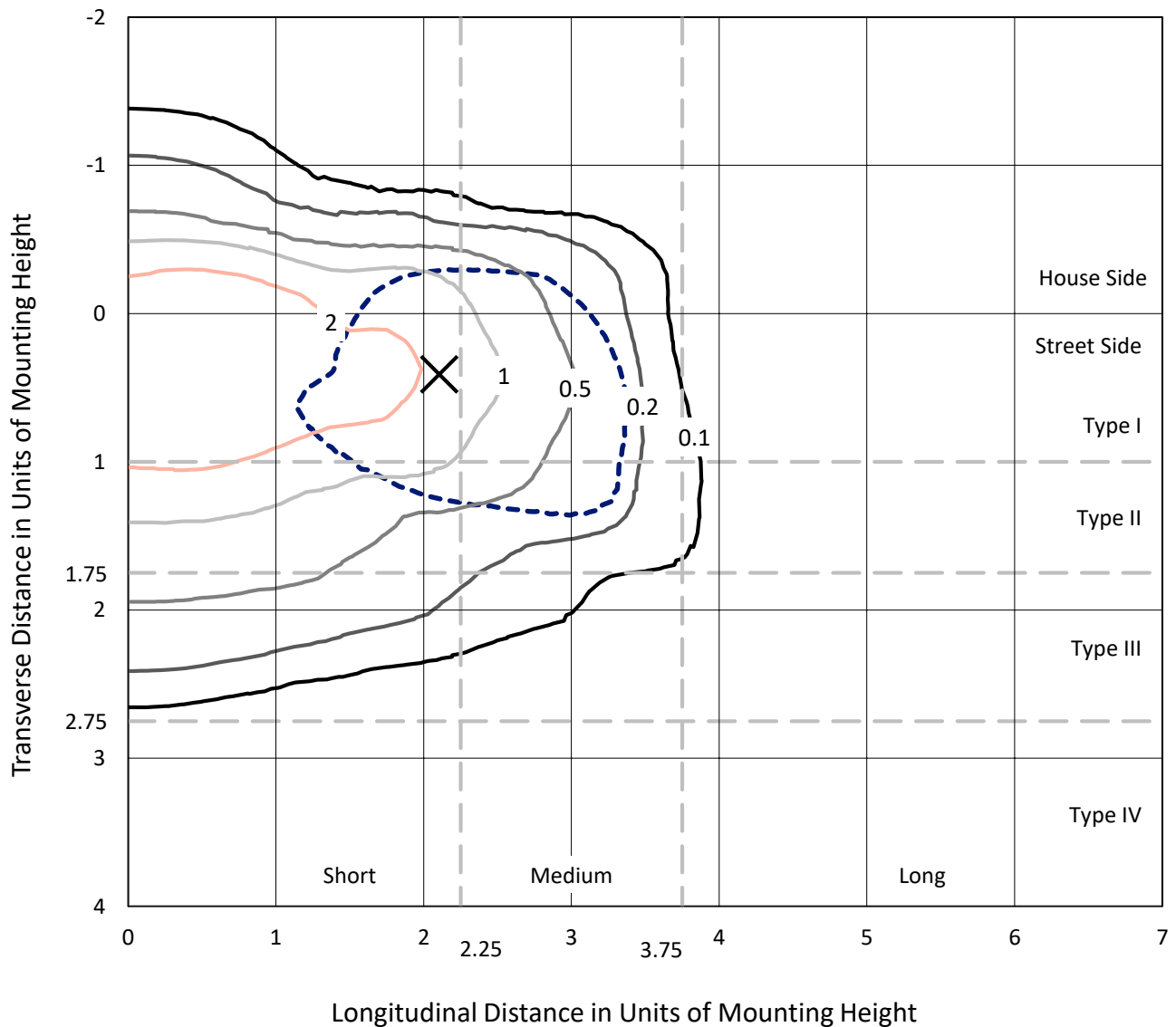
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

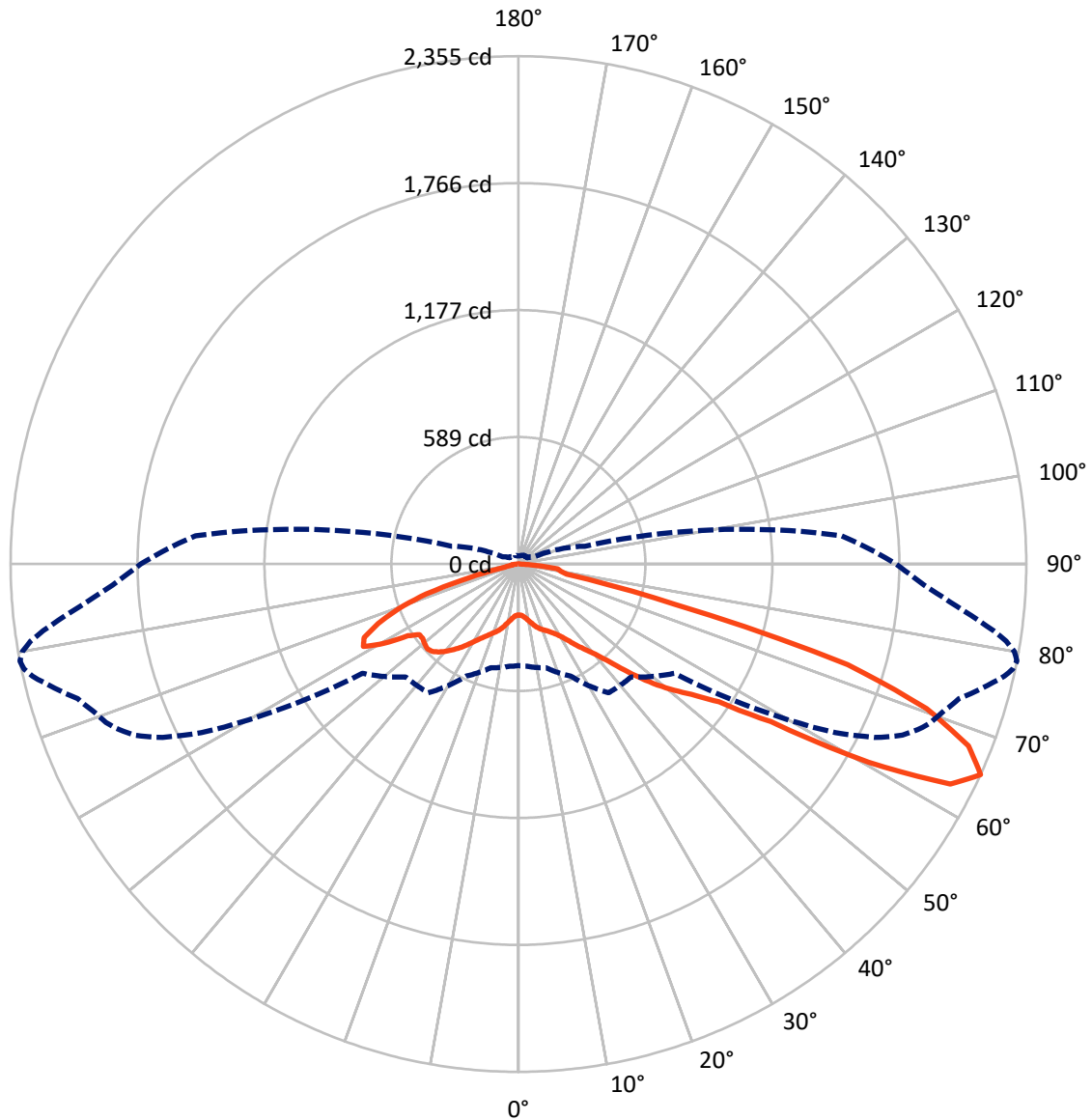
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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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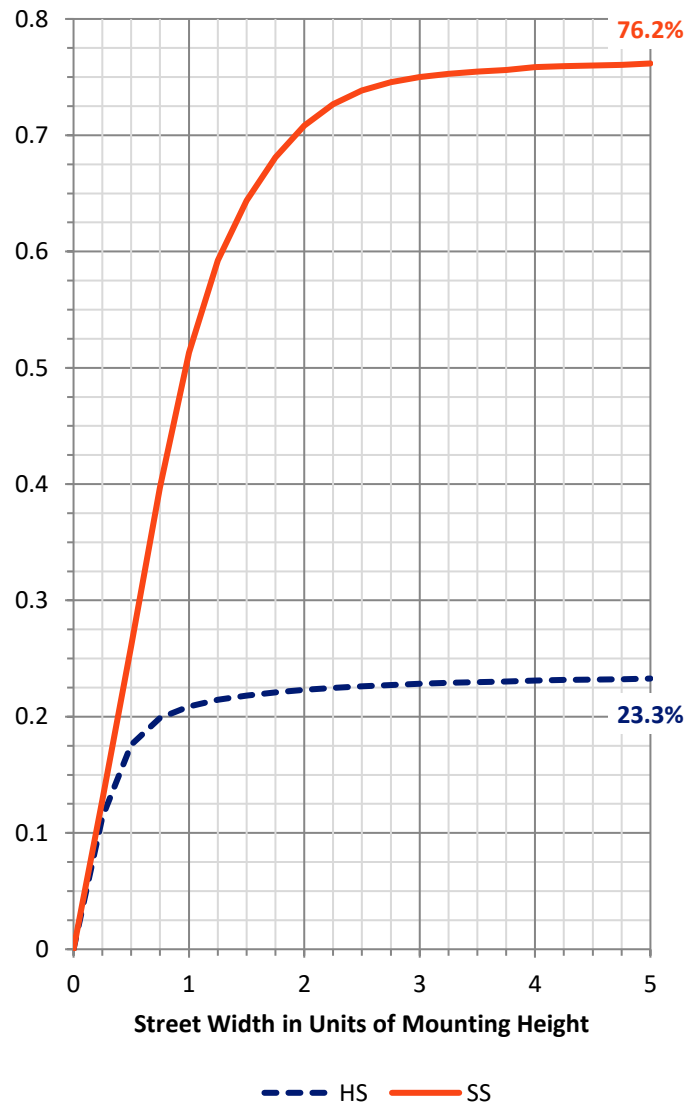
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	536.6	0.0	536.6
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	1733.4	0.0	1733.4
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	2270.0	0.0	2270.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.5	1.0
10°-20°	76.8	3.4
20°-30°	132.7	5.8
30°-40°	219.6	9.7
40°-50°	372.4	16.4
50°-60°	494.8	21.8
60°-70°	639.2	28.2
70°-80°	268.1	11.8
80°-90°	43.1	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°	2270.0	100.0
0°-180°	2270.0	100.0



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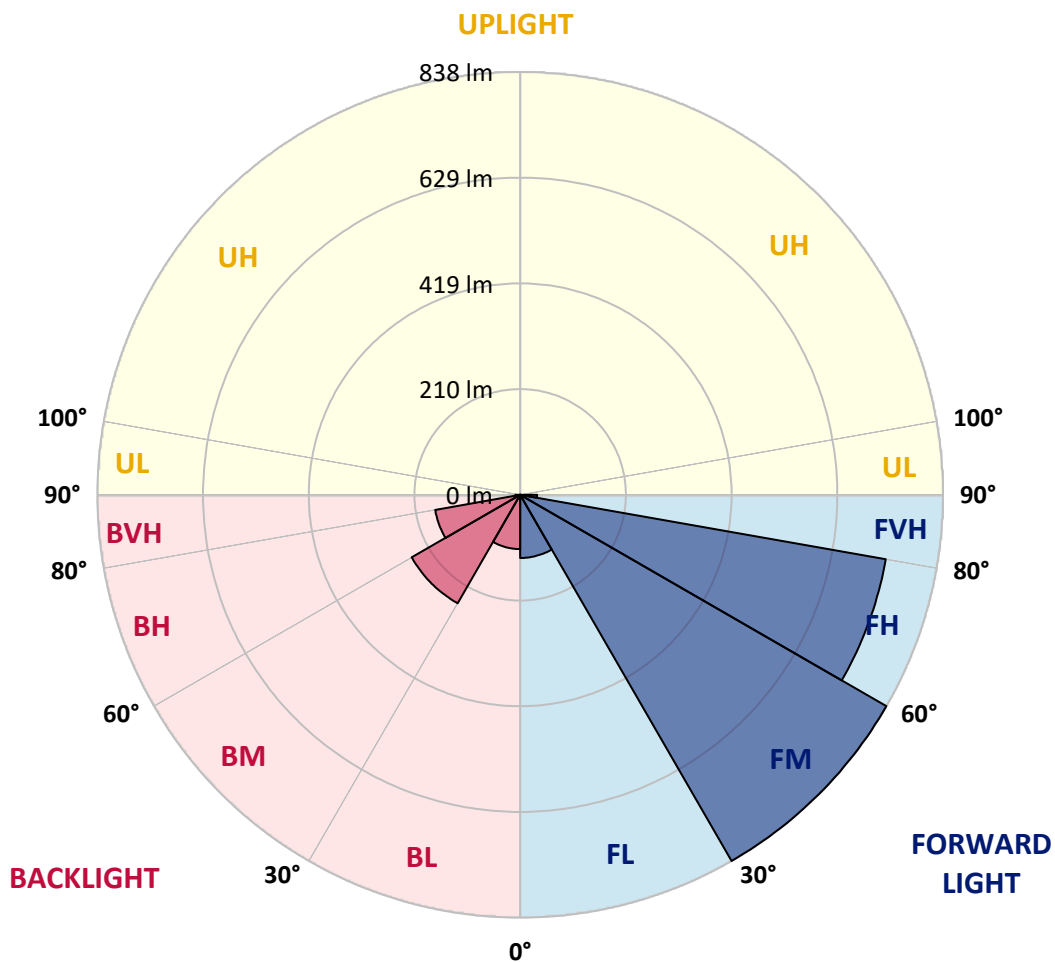
CATALOG NUMBER: ICS-F01-LED-E1-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	125.3	5.5			
FM	(30°-60°)	838.4	36.9			
FH	(60°-80°)	736.1	32.4			G1/1800
FVH	(80°-90°)	33.7	1.5			G1/100
BL	(0°-30°)	107.7	4.7	B0/110		
BM	(30°-60°)	248.4	10.9	B1/1000		
BH	(60°-80°)	171.1	7.5	B1/500		G1/500
BVH	(80°-90°)	9.4	0.4			G0/10
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°	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3
2.5°	235.5	236.3	235.8	236.3	236.8	237.0	237.5	237.3	237.3	237.5	237.0
5°	235.5	235.5	236.3	237.5	238.0	239.5	241.2	241.0	241.2	241.0	241.5
7.5°	240.5	240.2	241.0	242.5	243.0	245.2	248.2	248.7	249.2	249.2	249.9
10°	249.2	248.9	249.7	250.4	251.1	252.9	257.1	258.8	259.1	259.3	260.3
12.5°	260.1	259.8	258.8	258.8	258.6	261.8	267.5	270.7	271.2	272.2	272.9
15°	267.7	267.0	265.5	264.5	265.8	271.0	279.4	283.1	283.6	284.3	286.3
17.5°	275.2	274.4	271.2	268.7	270.5	278.9	290.3	294.2	295.2	296.0	298.2
20°	285.6	285.1	280.4	274.4	273.9	284.8	298.7	303.9	304.6	305.6	307.9
22.5°	301.4	299.2	293.7	282.6	277.1	288.3	304.6	311.8	312.8	313.8	316.8
25°	321.2	320.2	310.8	293.7	282.3	291.8	311.1	320.0	321.5	322.7	326.7
27.5°	341.8	340.3	330.1	307.9	291.5	298.7	321.2	331.4	333.4	335.3	339.1
30°	360.1	359.6	351.2	326.9	306.4	311.8	337.6	350.0	352.2	354.7	358.1
32.5°	403.2	403.5	394.8	370.0	342.3	335.6	361.1	379.7	380.7	383.6	389.8
35°	485.7	486.7	483.5	463.9	432.7	405.2	407.7	426.0	427.0	429.5	435.4
37.5°	540.9	542.9	552.8	559.0	543.1	530.5	499.1	491.9	492.6	491.1	489.9
40°	571.4	574.3	600.4	632.6	649.9	650.1	636.5	604.8	592.7	589.2	574.3
42.5°	588.7	593.7	630.6	685.6	735.3	769.5	777.9	742.8	733.8	718.0	689.5
45°	600.1	606.1	649.6	724.9	798.2	856.4	900.3	884.7	878.7	869.1	842.8
47.5°	598.1	602.8	648.2	738.3	831.2	913.9	991.7	1007.8	1000.6	998.1	980.3
50°	562.0	566.2	612.2	705.1	813.1	935.7	1049.6	1095.2	1095.2	1099.9	1094.5
52.5°	523.3	526.8	568.7	652.1	754.7	914.4	1081.8	1157.4	1167.3	1175.4	1188.3
55°	508.7	512.9	544.6	616.0	704.9	853.5	1092.7	1203.9	1222.3	1236.1	1265.4
57.5°	515.7	519.9	542.4	596.4	675.6	791.3	1093.2	1266.6	1302.0	1330.5	1389.7
60°	545.6	549.6	568.4	614.5	668.0	755.4	1072.2	1366.4	1422.9	1476.4	1574.9
62.5°	531.7	536.7	564.2	644.4	725.2	728.2	996.1	1443.7	1534.6	1613.6	1770.4
65°	471.1	476.3	497.8	572.9	728.6	740.0	883.4	1445.2	1558.1	1664.8	1834.0
67.5°	357.6	359.6	376.7	436.9	582.8	753.2	767.5	1274.0	1381.5	1500.6	1675.2
70°	182.8	186.2	191.2	241.2	375.2	622.4	659.5	938.9	1075.9	1199.0	1408.8
72.5°	63.4	64.6	69.6	92.1	182.8	408.4	577.3	643.4	726.2	841.3	1084.3
75°	38.1	38.1	39.9	46.6	83.5	212.7	513.7	525.6	536.7	575.3	734.3
77.5°	30.2	30.7	30.7	31.9	46.3	109.2	390.1	488.7	490.1	493.9	520.6
80°	21.5	22.5	24.5	25.5	30.0	59.9	218.9	429.0	458.2	472.3	491.9
82.5°	16.1	17.1	20.8	22.0	23.3	33.4	98.3	296.0	349.2	377.5	446.3
85°	7.2	8.4	14.1	15.6	16.3	17.8	46.1	84.2	96.8	108.7	143.4
87.5°	1.2	1.2	2.2	3.2	4.7	4.5	10.2	14.4	14.6	17.1	19.1
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°	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3
2.5°	237.0	237.0	237.0	236.8	237.0	237.0	237.0	237.0	237.3	237.3	237.3
5°	242.2	241.7	242.0	242.0	242.0	241.7	242.2	242.0	242.2	243.0	242.7
7.5°	249.9	250.4	250.6	250.9	250.9	250.9	251.1	251.6	251.6	252.4	252.1
10°	261.3	261.0	261.3	262.0	262.8	263.0	263.8	263.5	264.0	265.0	266.0
12.5°	273.4	273.9	274.7	275.4	276.6	276.9	277.6	277.9	279.4	279.4	280.4
15°	287.1	287.3	288.8	289.0	290.5	291.0	292.3	292.7	294.5	294.7	295.7
17.5°	299.4	299.9	300.7	301.4	303.1	303.9	304.9	305.9	307.4	307.9	309.6
20°	309.3	310.3	310.6	312.1	313.6	314.5	315.5	316.5	318.0	318.8	320.5
22.5°	318.3	319.2	320.0	321.2	322.2	323.7	324.2	325.9	327.4	328.7	330.1
25°	327.9	329.4	330.1	332.4	333.1	334.6	335.8	337.6	339.6	341.0	343.0
27.5°	341.5	343.8	344.8	347.2	349.0	349.7	351.7	354.2	355.9	357.6	359.6
30°	360.4	364.6	365.3	367.0	370.3	370.8	373.2	375.2	377.9	379.7	381.4
32.5°	389.6	394.8	395.3	397.3	400.0	401.0	403.0	405.2	409.4	410.1	412.9
35°	434.4	436.6	438.6	439.4	441.6	442.8	444.3	446.8	451.0	450.5	453.5
37.5°	488.2	488.9	489.2	486.7	487.2	484.9	487.7	488.2	489.6	490.9	493.9
40°	564.9	557.3	556.3	550.3	544.4	541.2	539.9	535.0	536.2	536.7	539.2
42.5°	677.1	662.3	649.9	641.5	626.9	619.7	610.0	602.3	596.4	598.6	599.6
45°	819.3	798.0	778.2	752.4	733.4	719.7	702.6	687.3	680.4	677.1	681.1
47.5°	961.2	942.4	919.1	892.6	862.4	839.9	811.4	786.4	769.0	762.6	766.0
50°	1083.8	1066.5	1048.9	1033.3	998.1	973.6	934.7	902.3	875.0	861.2	857.4
52.5°	1185.6	1176.4	1167.0	1153.9	1125.7	1101.1	1070.2	1038.2	1002.1	973.8	964.2
55°	1276.5	1281.9	1277.2	1277.5	1266.3	1250.7	1224.5	1200.7	1175.4	1143.5	1130.1
57.5°	1409.0	1441.2	1447.6	1463.7	1471.7	1480.1	1487.5	1473.4	1467.0	1443.2	1443.4
60°	1617.8	1664.8	1705.7	1742.9	1773.3	1803.0	1834.3	1848.1	1863.5	1870.7	1895.2
62.5°	1839.9	1884.8	1945.7	1995.5	2023.5	2062.1	2096.0	2118.1	2145.1	2173.8	2211.2
65°	1894.9	1948.9	1987.3	2020.5	2048.2	2068.8	2087.4	2113.6	2136.2	2181.7	2225.8
67.5°	1754.0	1797.1	1832.3	1865.0	1886.5	1903.8	1920.4	1937.8	1976.4	2017.8	2062.1
70°	1505.6	1557.6	1615.8	1658.2	1668.8	1683.7	1699.5	1722.1	1741.4	1784.7	1818.4
72.5°	1209.6	1284.4	1333.7	1392.4	1405.0	1427.6	1436.5	1454.1	1457.5	1481.1	1490.0
75°	843.1	928.8	978.3	1021.4	1029.8	1017.4	1022.4	960.2	944.4	931.5	921.1
77.5°	556.5	579.6	587.5	580.5	547.4	521.3	493.6	466.4	469.3	447.3	408.7
80°	494.8	500.0	492.9	485.9	466.9	439.6	414.6	389.1	376.5	363.1	343.3
82.5°	481.5	501.5	503.8	495.3	480.2	450.5	420.3	382.4	350.2	320.5	290.3
85°	161.0	195.9	211.5	226.1	230.6	235.8	218.0	193.7	164.5	144.9	113.4
87.5°	20.6	25.5	29.5	25.3	29.5	34.7	25.0	28.0	28.2	17.6	13.1
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3
2.5°	237.5	237.3	237.3	237.3	237.0	237.3	237.3	237.3	237.3	237.3	237.0
5°	243.0	243.0	243.7	244.0	243.5	243.2	243.5	243.7	243.7	243.5	243.7
7.5°	253.1	253.4	253.9	254.6	254.1	254.4	254.6	254.4	255.1	255.3	255.1
10°	266.0	266.5	267.7	268.0	267.7	268.7	269.0	268.5	269.0	269.0	270.0
12.5°	280.9	281.4	282.8	283.3	283.8	284.1	284.8	285.1	285.8	286.3	287.1
15°	297.0	297.5	298.4	300.2	300.7	301.2	301.7	303.1	303.4	304.4	305.1
17.5°	310.6	311.3	312.8	314.0	314.8	316.0	316.5	318.3	318.8	320.2	321.5
20°	321.5	322.7	324.0	325.4	326.7	328.2	328.7	330.4	331.4	332.1	333.6
22.5°	331.4	332.9	334.6	336.3	337.3	339.3	340.1	340.8	343.0	344.0	345.5
25°	344.3	345.7	347.7	350.0	350.9	353.4	354.2	355.4	357.9	358.9	361.1
27.5°	361.8	363.8	365.3	367.5	368.8	370.5	372.2	373.7	376.0	377.5	379.9
30°	383.9	385.4	387.9	389.6	391.6	394.0	396.0	397.5	398.8	401.0	403.7
32.5°	416.3	416.6	417.3	421.5	423.5	425.5	428.2	429.5	431.4	433.7	436.6
35°	456.7	458.9	460.7	462.6	464.9	467.1	468.1	471.8	473.5	476.5	479.5
37.5°	496.8	497.1	501.0	502.3	504.3	506.5	510.0	513.7	518.1	521.1	525.8
40°	539.9	541.9	546.9	549.3	551.8	557.3	560.0	565.9	573.4	577.6	585.5
42.5°	602.3	605.3	614.2	618.2	624.1	633.0	638.7	646.9	649.9	660.0	663.8
45°	684.1	693.2	706.1	714.5	725.2	734.8	739.8	743.5	748.0	755.9	754.9
47.5°	772.5	784.4	798.7	816.1	823.0	834.4	840.8	848.0	844.1	842.1	840.1
50°	863.1	877.0	896.1	911.7	922.3	929.3	934.7	933.7	925.3	920.8	908.5
52.5°	963.9	972.1	990.2	1003.6	1010.0	1011.5	1010.2	1002.8	994.9	980.8	966.2
55°	1118.5	1114.8	1121.9	1128.1	1126.2	1133.1	1115.3	1108.3	1088.8	1070.4	1050.9
57.5°	1432.5	1437.5	1397.4	1379.3	1376.1	1382.5	1351.0	1347.1	1299.8	1293.8	1260.9
60°	1891.7	1916.0	1884.5	1866.9	1819.4	1803.8	1768.6	1754.0	1708.7	1672.0	1625.7
62.5°	2237.0	2259.0	2272.1	2247.1	2219.4	2178.5	2125.3	2066.3	2018.3	1962.0	1913.0
65°	2268.2	2312.8	2343.0	2354.6	2335.0	2290.2	2224.6	2150.3	2076.7	2006.1	1944.2
67.5°	2122.3	2162.2	2209.0	2250.8	2253.3	2224.1	2168.1	2092.6	2007.6	1920.4	1847.9
70°	1871.6	1921.7	1962.5	2006.6	2037.3	2020.5	1992.5	1923.2	1835.0	1767.1	1683.7
72.5°	1522.2	1543.2	1553.1	1596.5	1597.0	1566.3	1546.5	1508.1	1437.0	1388.9	1325.3
75°	888.9	842.6	793.3	750.4	715.5	700.9	636.0	625.1	581.5	554.5	514.9
77.5°	366.6	325.2	271.9	227.6	183.8	164.0	135.2	122.6	106.3	99.1	94.4
80°	314.3	275.2	235.0	196.7	162.5	128.3	99.8	77.5	60.9	51.8	48.0
82.5°	256.6	233.1	205.1	184.3	157.5	132.0	111.5	86.4	64.6	47.6	36.4
85°	92.6	76.0	61.2	56.2	44.8	36.9	31.0	26.5	21.8	17.3	15.4
87.5°	10.4	9.9	5.7	5.4	6.2	4.5	5.2	4.7	4.0	3.5	3.7
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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CATALOG NUMBER: ICS-F01-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3	236.3
2.5°	237.0	237.0	237.3	237.3	237.5	237.8	238.3	238.0	238.0	238.3	238.3
5°	243.7	244.5	244.2	244.2	244.2	244.5	244.7	243.7	242.7	241.7	241.2
7.5°	255.3	255.8	256.3	255.8	256.3	256.1	255.6	252.9	249.7	245.7	243.0
10°	270.5	270.5	271.0	270.7	271.7	271.0	269.5	263.3	256.3	247.9	241.7
12.5°	286.8	288.5	287.8	288.0	290.0	288.0	284.6	275.4	263.0	249.4	238.5
15°	306.1	306.9	307.4	306.6	307.9	306.1	299.9	285.3	267.2	248.2	232.1
17.5°	322.0	322.2	322.5	323.0	324.7	322.7	312.1	292.3	268.2	242.5	221.2
20°	334.4	335.6	336.6	336.6	339.1	336.1	322.0	295.7	265.0	233.1	207.3
22.5°	347.2	348.2	349.5	349.7	352.9	350.0	330.1	295.0	256.6	219.7	191.2
25°	363.1	364.1	365.1	366.3	370.8	366.6	338.3	292.0	244.9	203.8	173.9
27.5°	381.4	383.6	384.4	386.4	391.6	385.1	345.3	287.5	232.1	185.5	155.5
30°	405.9	408.7	409.6	412.4	419.6	405.4	349.2	279.9	215.7	166.9	136.0
32.5°	438.9	442.6	445.6	448.5	456.7	425.7	349.7	268.7	196.7	146.1	117.1
35°	482.0	487.7	489.9	491.9	499.6	447.8	347.5	252.1	173.4	124.8	102.3
37.5°	530.3	536.0	537.4	538.4	539.9	466.6	342.0	226.9	147.1	106.3	90.4
40°	589.7	594.7	596.6	595.2	587.2	481.2	329.9	197.4	121.6	93.6	83.0
42.5°	662.3	669.7	670.4	663.8	637.5	489.4	305.6	162.7	101.5	84.5	77.3
45°	752.2	751.7	747.5	742.8	692.2	486.2	271.7	132.5	88.9	77.3	72.1
47.5°	832.9	824.5	818.1	804.2	740.5	467.4	227.9	109.7	81.2	71.8	67.6
50°	899.0	883.7	870.1	855.0	776.4	433.9	184.3	93.1	74.1	67.1	63.4
52.5°	951.3	932.7	916.9	902.0	811.1	396.8	151.1	81.0	67.1	62.4	58.7
55°	1033.0	1014.5	989.2	972.9	864.1	362.6	129.5	71.3	60.4	57.5	53.7
57.5°	1239.8	1223.5	1193.3	1150.9	1000.3	349.7	117.4	63.9	55.0	53.2	50.3
60°	1600.9	1574.4	1535.1	1492.0	1277.2	358.4	107.7	58.7	51.3	49.8	47.6
62.5°	1873.4	1826.8	1782.2	1742.4	1498.7	358.1	95.1	54.7	48.5	47.8	45.6
65°	1884.5	1837.2	1792.4	1750.5	1503.6	318.8	80.2	51.3	48.0	47.8	44.1
67.5°	1784.5	1733.2	1689.9	1637.1	1391.9	249.2	64.4	49.0	50.0	49.5	43.6
70°	1621.0	1554.1	1518.5	1466.5	1225.0	174.4	53.0	49.8	54.2	52.8	44.3
72.5°	1272.3	1221.8	1167.5	1131.4	959.0	110.2	44.6	50.3	56.0	53.5	46.3
75°	473.5	487.2	464.9	457.0	487.2	64.6	39.6	46.8	50.0	46.3	42.1
77.5°	95.6	91.4	86.7	85.7	110.7	39.9	36.4	40.6	38.4	33.9	34.2
80°	45.8	44.6	43.1	42.8	41.1	33.2	33.7	34.7	29.0	26.3	28.0
82.5°	30.5	28.7	28.2	27.2	27.7	29.7	31.9	29.7	22.3	20.8	25.3
85°	14.1	13.6	13.4	13.4	14.9	26.7	26.5	21.8	15.4	14.9	25.3
87.5°	3.5	3.5	3.7	3.5	4.0	7.9	6.9	6.7	5.7	6.4	11.9
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):**

	165°	175°	180°
0°	236.3	236.3	236.3
2.5°	238.0	238.3	238.0
5°	240.2	240.2	240.2
7.5°	240.2	239.5	239.3
10°	236.8	234.5	234.5
12.5°	230.8	227.1	226.6
15°	219.7	214.7	214.0
17.5°	205.6	198.9	197.6
20°	189.7	181.3	179.8
22.5°	172.4	162.7	162.0
25°	155.3	145.4	143.4
27.5°	136.2	126.6	125.6
30°	117.1	108.7	108.2
32.5°	101.0	95.8	94.9
35°	89.7	86.7	85.4
37.5°	82.2	80.0	79.8
40°	76.5	74.5	74.3
42.5°	71.8	70.1	69.8
45°	67.1	65.6	65.1
47.5°	62.4	60.9	60.7
50°	58.2	56.2	56.0
52.5°	54.2	52.3	51.8
55°	50.5	48.5	48.5
57.5°	47.3	45.3	45.1
60°	44.3	42.4	42.1
62.5°	42.1	39.6	39.4
65°	40.4	37.9	37.4
67.5°	39.4	36.4	35.7
70°	41.1	35.7	34.4
72.5°	41.4	34.9	33.2
75°	39.9	32.9	31.7
77.5°	34.9	29.5	28.2
80°	30.2	22.8	21.1
82.5°	28.7	18.6	16.1
85°	22.3	12.1	11.4
87.5°	12.6	6.7	5.4
90°	0.0	0.0	0.0

(END OF REPORT)