

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: P180933

Luminaire Tested: **ICS-F02-LED-E1-SL4**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180933  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
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-SL4  
Description: ICON SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4389.9 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

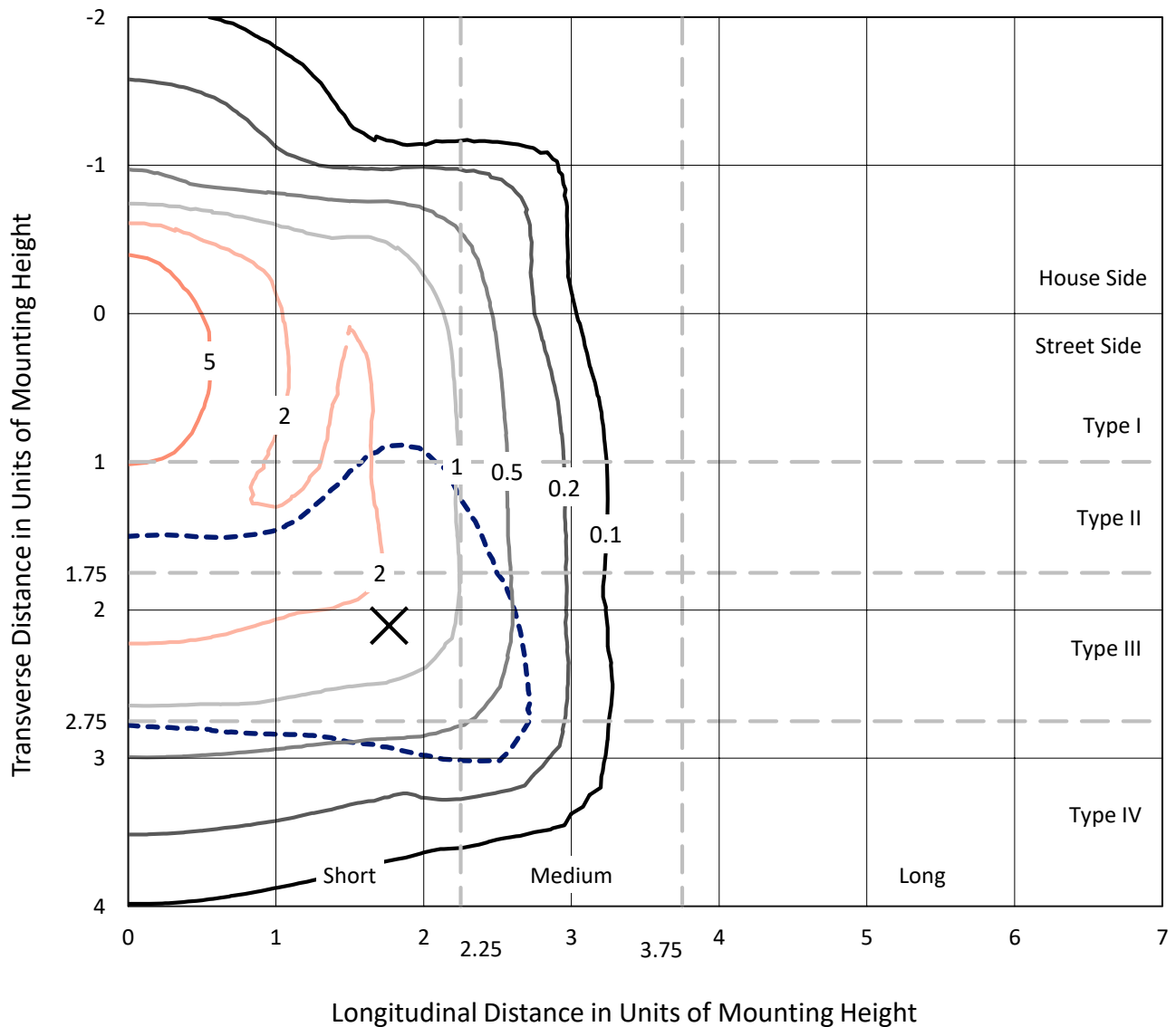
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P180933  
 CATALOG NUMBER: ICS-F02-LED-E1-SL4

### Iso-Footcandle Lines of Horizontal Illumination

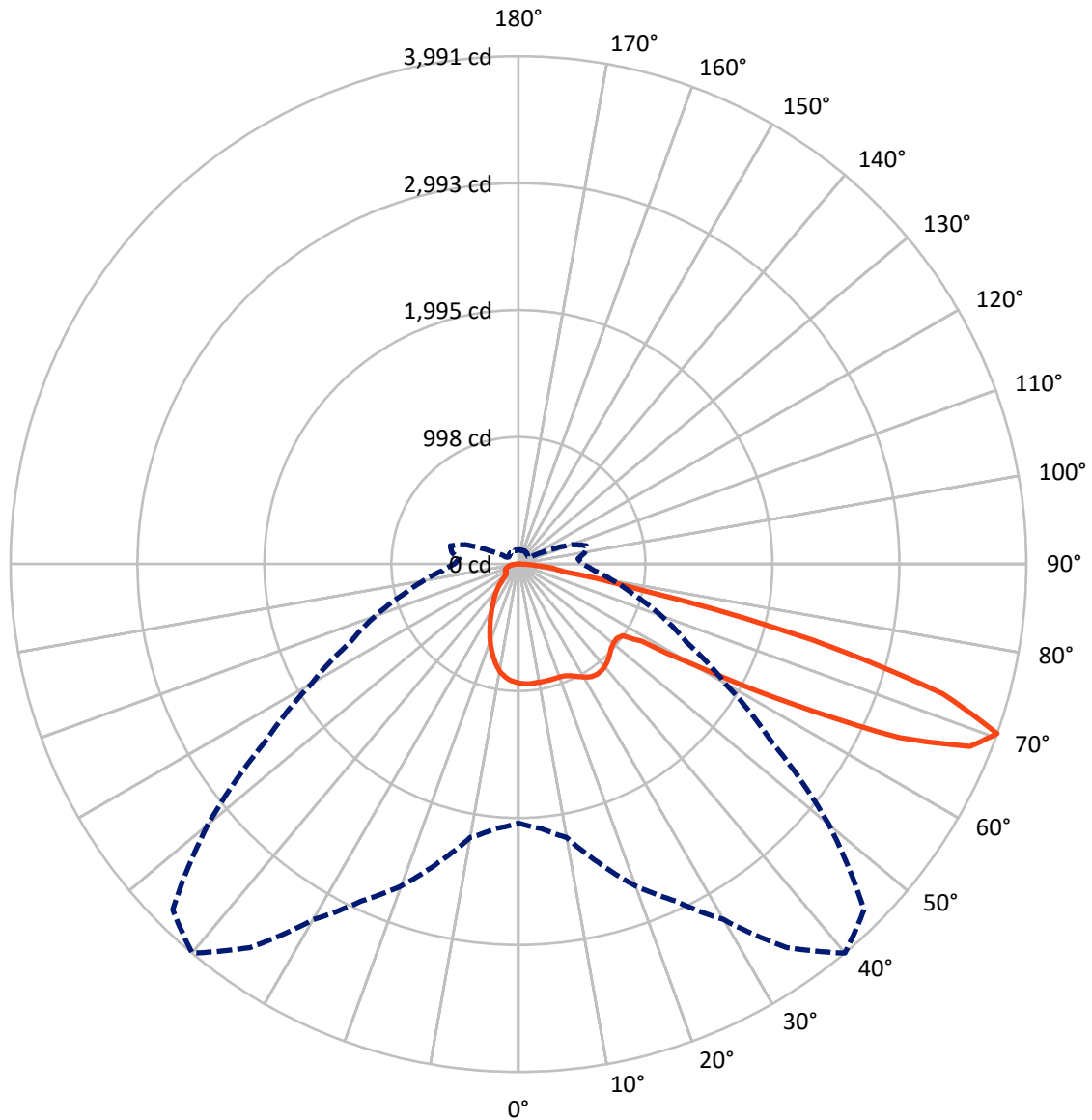
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180933  
CATALOG NUMBER: ICS-F02-LED-E1-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P180933

CATALOG NUMBER: ICS-F02-LED-E1-SL4

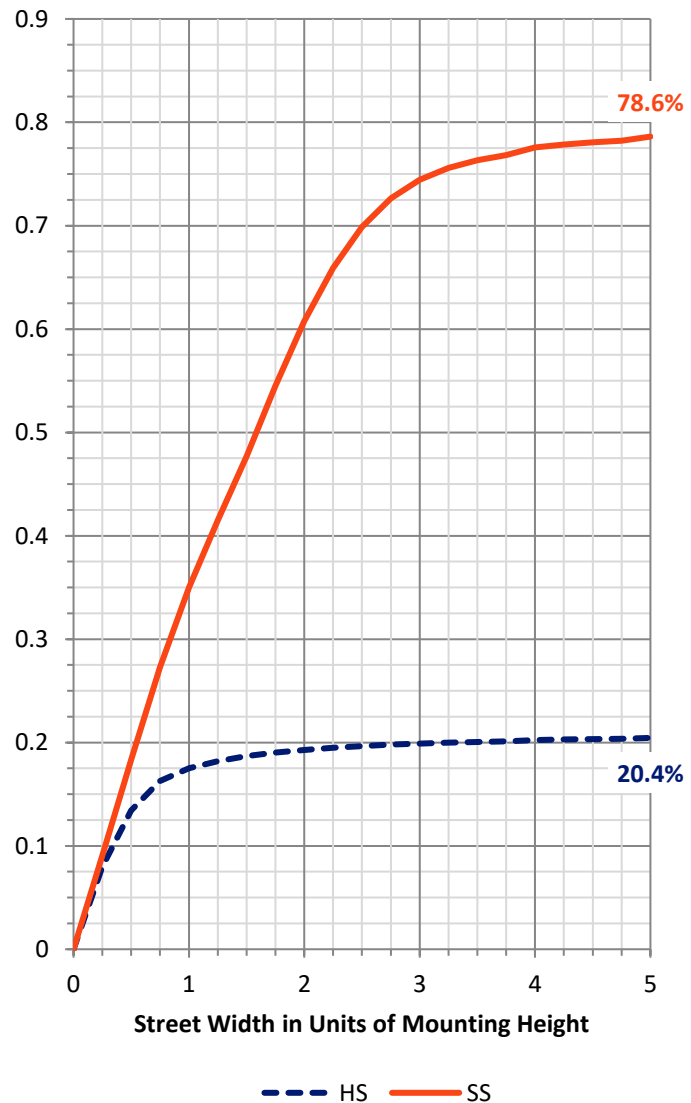
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	911.3	0.0	911.3
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	3478.6	0.0	3478.6
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	4389.9	0.0	4389.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	2.0
10°-20°	239.6	5.5
20°-30°	354.6	8.1
30°-40°	448.2	10.2
40°-50°	506.8	11.5
50°-60°	721.2	16.4
60°-70°	1343.3	30.6
70°-80°	615.6	14.0
80°-90°	73.1	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°	4389.9	100.0
0°-180°	4389.9	100.0



REPORT NUMBER: P180933

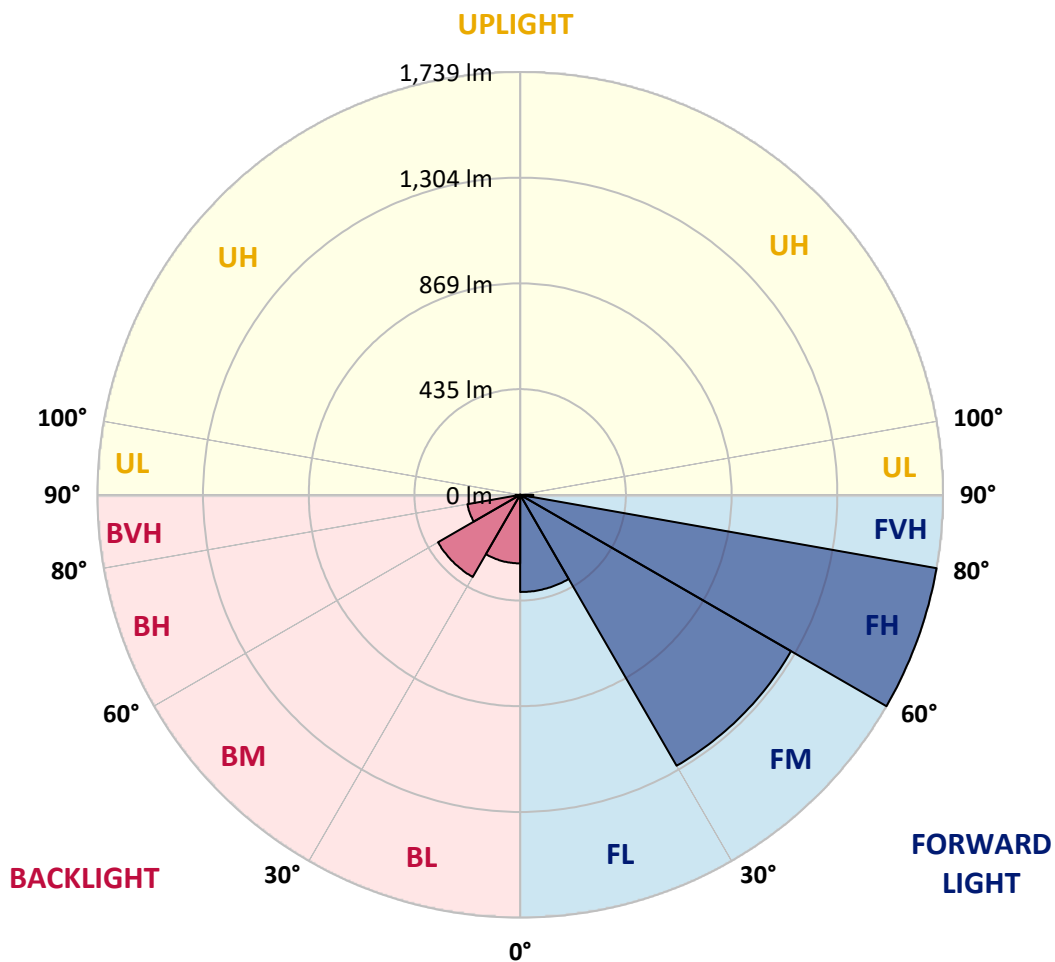
CATALOG NUMBER: ICS-F02-LED-E1-SL4

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.7	9.1			
FM	(30°-60°)	1286.1	29.3			
FH	(60°-80°)	1738.6	39.6			G1/1800
FVH	(80°-90°)	54.2	1.2			G1/100
BL	(0°-30°)	282.0	6.4	B1/500		
BM	(30°-60°)	390.2	8.9	B1/1000		
BH	(60°-80°)	220.3	5.0	B1/500		G1/500
BVH	(80°-90°)	18.9	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 IV Short





REPORT NUMBER: P180933

CATALOG NUMBER: ICS-F02-LED-E1-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	951.1	953.5	950.6	950.1	950.1	949.6	946.6	946.1	942.1	942.6	943.6
5°	958.0	959.0	957.0	956.5	955.5	953.5	951.1	948.1	945.1	942.1	939.7
7.5°	964.9	963.9	962.4	962.4	961.0	958.0	953.0	949.1	942.6	939.2	934.7
10°	974.8	973.3	971.4	970.4	967.9	963.4	956.5	951.1	943.1	936.2	928.8
12.5°	984.2	983.7	980.8	979.3	975.3	970.9	962.4	954.0	943.6	932.7	922.8
15°	1001.1	999.1	996.1	993.2	986.7	980.8	967.9	958.0	943.1	928.8	913.4
17.5°	1030.3	1026.8	1023.9	1017.4	1009.5	999.1	980.3	963.4	943.1	922.3	905.0
20°	1083.8	1076.4	1072.4	1064.0	1050.1	1031.3	1002.1	974.8	944.6	917.9	894.6
22.5°	1144.2	1139.3	1133.8	1128.4	1106.6	1079.3	1039.7	999.1	953.5	915.9	886.2
25°	1212.1	1205.7	1202.7	1193.3	1173.0	1141.8	1087.8	1031.3	973.8	923.8	886.2
27.5°	1272.5	1270.6	1270.1	1259.2	1239.8	1203.2	1139.3	1071.4	1001.6	940.2	893.6
30°	1327.5	1325.5	1324.5	1318.6	1296.3	1252.7	1183.4	1107.1	1031.8	962.9	907.5
32.5°	1386.0	1379.5	1376.6	1365.2	1339.9	1288.9	1209.6	1130.4	1055.6	985.2	922.8
35°	1433.5	1428.1	1422.1	1405.8	1370.1	1309.7	1221.0	1138.3	1065.0	997.6	930.7
37.5°	1468.2	1462.7	1454.3	1433.5	1389.4	1316.6	1220.5	1135.8	1061.5	995.6	932.2
40°	1483.5	1478.1	1469.2	1442.9	1392.9	1312.7	1211.1	1124.4	1051.1	985.2	926.3
42.5°	1477.6	1473.6	1462.2	1437.0	1382.0	1294.8	1192.3	1103.1	1031.3	968.4	912.9
45°	1454.8	1451.8	1440.9	1414.2	1357.2	1266.1	1164.5	1076.4	1007.5	947.6	895.1
47.5°	1420.6	1419.6	1408.8	1382.5	1326.0	1237.4	1135.8	1050.1	983.7	927.3	880.2
50°	1383.0	1378.0	1372.6	1348.3	1296.8	1212.6	1115.0	1033.8	970.4	919.8	873.8
52.5°	1359.2	1357.7	1352.8	1331.0	1281.4	1198.2	1105.6	1027.8	969.4	918.4	870.3
55°	1570.2	1573.7	1528.1	1433.5	1350.3	1237.9	1133.8	1058.1	993.7	942.1	907.0
57.5°	2322.7	2307.3	2229.0	2041.3	1829.3	1549.4	1347.8	1225.5	1145.7	1154.6	1172.5
60°	2706.1	2703.1	2688.7	2615.9	2474.7	2261.7	2025.5	1754.5	1668.3	1677.7	1684.7
62.5°	2877.4	2881.9	2892.8	2865.6	2828.4	2766.5	2648.6	2539.6	2424.2	2381.1	2265.7
65°	2956.7	2964.6	2989.4	3004.7	3019.1	3030.0	3076.6	3204.4	3288.6	3131.1	2764.5
67.5°	2792.7	2830.9	2912.6	2992.4	3063.7	3165.2	3322.8	3619.5	3826.0	3632.3	3100.8
70°	2035.9	2087.9	2181.5	2428.2	2691.7	2922.0	3227.2	3678.9	3990.5	3840.9	3184.1
72.5°	1276.5	1290.9	1332.5	1423.1	1618.8	1914.5	2448.0	3125.6	3485.2	3365.8	2691.2
75°	809.9	814.8	813.4	834.2	867.3	931.7	1142.8	1846.1	2387.5	2201.3	1499.9
77.5°	482.5	489.9	492.9	499.3	515.2	537.9	555.3	628.1	1001.1	971.9	544.4
80°	404.2	410.1	405.2	403.7	393.8	386.9	395.3	386.9	359.1	345.7	318.5
82.5°	214.0	213.5	212.0	226.4	255.6	278.4	295.7	291.8	264.0	224.9	190.7
85°	117.4	121.4	121.4	126.3	121.9	122.3	126.3	133.2	123.3	103.0	84.2
87.5°	9.9	15.4	12.4	15.4	20.8	14.9	14.4	14.4	12.4	8.9	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



REPORT NUMBER: P180933

CATALOG NUMBER: ICS-F02-LED-E1-SL4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	941.1	940.2	938.2	936.7	936.7	934.2	932.7	931.7	931.2	929.3	929.3
5°	938.2	934.7	931.2	928.8	927.3	924.8	920.8	918.9	916.4	914.4	913.4
7.5°	931.7	925.3	919.8	915.9	910.9	907.0	902.0	897.6	893.1	891.1	890.1
10°	921.8	913.4	905.0	897.6	890.6	883.7	877.3	870.8	865.4	861.4	857.4
12.5°	912.4	899.5	888.6	877.7	866.8	858.4	849.5	840.1	832.2	824.7	822.8
15°	899.5	884.7	870.8	857.4	844.1	830.2	819.3	808.9	796.0	787.6	781.2
17.5°	887.7	869.8	853.0	837.1	820.8	806.4	790.1	776.2	763.3	750.4	741.0
20°	874.8	855.5	837.6	819.8	802.0	783.6	764.8	747.0	731.1	715.8	700.4
22.5°	863.4	843.6	826.2	806.9	787.1	766.3	744.5	722.2	703.9	684.1	666.2
25°	856.4	834.7	816.8	798.0	776.2	753.4	728.6	702.4	680.1	657.3	636.0
27.5°	856.4	828.2	809.9	791.1	768.8	744.5	717.3	688.5	663.3	638.0	611.7
30°	863.9	829.2	804.4	784.6	761.8	735.6	705.4	675.2	647.4	617.7	592.4
32.5°	870.8	831.2	800.5	775.2	749.0	723.2	692.5	660.3	629.6	601.3	574.6
35°	875.3	831.2	793.0	760.8	731.1	705.9	675.6	643.4	612.2	584.5	559.7
37.5°	875.8	827.2	781.2	744.5	713.3	687.0	658.3	628.1	598.4	572.6	551.8
40°	870.8	819.3	769.3	727.2	694.5	667.7	641.5	614.2	587.5	566.2	548.3
42.5°	861.9	810.9	757.9	713.3	679.1	651.4	627.1	603.8	580.5	562.2	547.4
45°	848.5	799.5	747.5	704.9	671.2	642.0	618.2	598.9	579.1	563.7	548.8
47.5°	836.6	795.5	750.9	710.3	675.2	644.9	620.7	604.3	589.0	578.6	558.3
50°	834.2	793.5	752.4	714.8	679.1	648.4	627.1	618.7	614.2	607.8	576.6
52.5°	827.2	793.0	763.3	742.5	719.7	705.4	683.1	691.0	686.0	663.3	606.8
55°	900.0	909.9	937.7	977.3	1014.0	1022.4	1019.9	1010.5	960.5	826.2	679.6
57.5°	1237.4	1293.3	1345.8	1369.1	1366.2	1339.9	1321.1	1282.9	1210.6	1047.2	823.3
60°	1706.0	1714.9	1687.1	1646.0	1576.7	1518.7	1456.8	1385.5	1280.5	1120.5	911.4
62.5°	2137.4	2017.5	1894.2	1778.3	1672.8	1580.6	1494.4	1394.9	1258.2	1091.2	900.0
65°	2442.0	2188.4	1993.8	1827.3	1678.2	1549.4	1441.9	1312.7	1158.6	1008.0	834.2
67.5°	2599.1	2210.2	1911.5	1679.7	1468.2	1289.9	1146.7	1020.9	906.5	840.6	730.1
70°	2423.7	1875.9	1459.8	1197.7	944.6	757.4	598.4	502.3	469.1	531.5	552.8
72.5°	1806.0	1221.0	868.3	671.7	514.7	410.1	314.5	247.2	201.1	211.0	273.9
75°	854.0	527.0	372.5	283.3	225.4	186.7	152.6	139.7	116.9	97.1	91.1
77.5°	332.4	242.2	200.1	146.6	104.0	83.7	71.3	68.9	70.3	68.4	67.4
80°	253.1	171.4	107.5	78.8	67.9	59.9	53.0	51.0	52.0	54.5	57.0
82.5°	141.2	88.2	65.4	57.0	51.0	43.6	39.6	36.7	37.2	40.1	45.6
85°	54.5	42.6	39.1	37.6	35.2	28.2	24.3	24.8	28.2	33.7	33.7
87.5°	5.9	5.9	7.9	5.9	5.9	5.9	5.4	6.4	6.9	8.9	10.4
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: P180933

CATALOG NUMBER: ICS-F02-LED-E1-SL4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7	936.7
2.5°	928.3	928.3	928.3	927.3	927.8	925.8	925.8	924.3	926.8	925.3	924.8
5°	913.9	913.4	911.4	911.4	911.4	911.4	912.9	909.0	911.9	911.9	910.4
7.5°	889.6	889.6	884.2	887.2	886.2	887.7	889.6	887.7	890.6	892.6	891.1
10°	856.0	856.0	851.5	855.0	853.5	856.9	860.4	858.4	860.4	863.4	864.4
12.5°	818.8	816.8	812.9	814.3	814.3	816.3	817.8	820.3	822.8	826.7	828.7
15°	775.7	772.7	767.8	767.8	764.8	765.8	768.8	769.8	774.7	780.2	786.6
17.5°	731.6	724.2	718.7	712.3	707.3	711.3	714.8	717.3	721.2	729.6	734.1
20°	690.0	675.2	664.7	656.3	650.9	653.4	657.8	660.8	664.3	666.2	667.7
22.5°	648.9	632.1	617.7	607.3	598.4	600.8	598.9	597.4	599.9	593.4	592.9
25°	613.2	593.4	574.1	561.7	550.8	547.4	537.0	534.5	527.5	522.1	518.1
27.5°	587.5	561.7	540.4	526.1	508.7	495.8	482.5	469.1	461.7	452.7	448.3
30°	567.2	539.9	514.7	490.4	467.6	447.8	430.0	412.6	400.7	387.9	379.4
32.5°	548.3	523.1	492.4	459.2	428.5	406.2	382.9	363.1	344.3	327.4	315.0
35°	535.5	507.2	468.1	427.5	392.8	366.6	341.8	313.6	290.8	269.0	255.6
37.5°	528.5	493.9	445.8	400.7	362.1	332.4	301.7	269.0	241.2	220.9	200.6
40°	523.1	480.5	426.0	377.0	336.3	300.7	265.0	226.4	195.7	174.4	158.5
42.5°	517.1	465.6	408.7	358.1	313.1	271.4	228.4	187.2	158.0	143.2	136.2
45°	510.7	452.7	392.3	340.3	290.3	239.7	190.2	152.1	134.7	129.8	129.8
47.5°	509.2	444.3	380.4	323.0	264.5	203.1	155.0	131.3	126.3	127.3	129.3
50°	515.2	441.8	370.0	302.7	230.3	164.5	131.3	123.3	124.3	127.3	130.3
52.5°	529.5	443.8	359.1	274.4	189.7	135.7	121.4	120.9	123.8	128.3	131.3
55°	553.8	443.8	338.3	232.3	151.6	121.9	117.9	119.9	123.8	127.8	130.3
57.5°	605.8	439.4	301.7	185.8	126.8	116.9	116.9	119.4	122.8	126.8	128.8
60°	667.7	433.4	250.1	143.6	114.4	112.9	116.4	119.4	122.3	125.8	127.8
62.5°	671.7	418.1	198.1	118.9	108.0	110.5	115.9	119.9	120.9	123.3	125.8
65°	617.2	364.6	157.5	106.5	105.0	109.0	114.4	117.4	117.9	118.9	121.4
67.5°	540.4	297.2	127.3	100.6	102.0	106.5	109.5	111.9	113.4	115.9	116.4
70°	443.8	238.8	109.0	94.6	96.1	101.0	103.5	106.0	109.0	111.9	110.5
72.5°	314.5	185.8	95.6	88.2	90.2	94.6	97.6	99.6	102.0	105.0	103.0
75°	133.7	129.8	82.7	79.8	82.7	85.7	88.7	91.6	94.1	95.6	95.6
77.5°	68.4	76.3	71.3	71.3	73.3	76.3	78.8	81.7	83.2	84.7	86.7
80°	58.0	58.9	59.9	61.9	63.9	66.9	69.3	71.8	72.3	72.8	73.8
82.5°	48.0	50.0	51.0	54.0	55.5	56.5	58.0	58.0	58.9	58.9	57.5
85°	34.7	37.2	38.6	39.1	38.6	39.1	39.6	40.6	43.1	43.1	41.1
87.5°	9.9	9.4	11.9	12.4	13.4	15.4	17.3	20.8	21.8	22.8	22.8
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: P180933

CATALOG NUMBER: ICS-F02-LED-E1-SL4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	936.7	936.7	936.7	936.7
2.5°	924.3	925.3	923.3	923.8
5°	910.4	912.4	909.9	912.9
7.5°	892.6	895.6	895.1	894.6
10°	866.8	870.8	870.8	872.3
12.5°	834.2	836.6	838.6	839.6
15°	790.1	794.5	797.0	797.0
17.5°	737.1	740.0	741.5	739.5
20°	669.7	668.7	669.2	664.3
22.5°	591.9	593.4	589.0	590.0
25°	515.7	513.2	515.2	512.2
27.5°	441.8	442.3	436.9	439.4
30°	371.5	369.0	362.1	365.6
32.5°	303.6	297.2	289.8	285.3
35°	239.7	229.8	226.4	224.9
37.5°	188.2	177.3	173.9	169.9
40°	149.6	145.6	144.1	145.1
42.5°	134.2	134.2	135.2	135.7
45°	130.3	131.8	133.2	133.7
47.5°	130.8	132.3	134.2	134.7
50°	131.8	133.2	134.7	135.2
52.5°	132.3	132.3	133.2	133.7
55°	131.3	130.8	131.3	131.8
57.5°	129.3	128.3	128.8	130.3
60°	128.3	126.8	127.8	128.8
62.5°	125.8	125.3	126.3	126.8
65°	120.4	120.9	122.3	122.3
67.5°	115.4	115.9	116.4	116.9
70°	109.5	110.0	111.0	111.5
72.5°	102.5	104.5	106.0	108.0
75°	97.1	99.1	102.0	104.0
77.5°	87.7	89.2	92.6	95.1
80°	74.3	73.8	74.3	75.8
82.5°	57.0	57.0	56.5	56.0
85°	40.1	39.6	38.1	38.1
87.5°	21.8	21.3	20.8	19.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)