

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: P180931

Luminaire Tested: **ICS-F02-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180931
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-SL4-8030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3705 lumens
Efficiency: N/A
Efficacy: 67.4 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

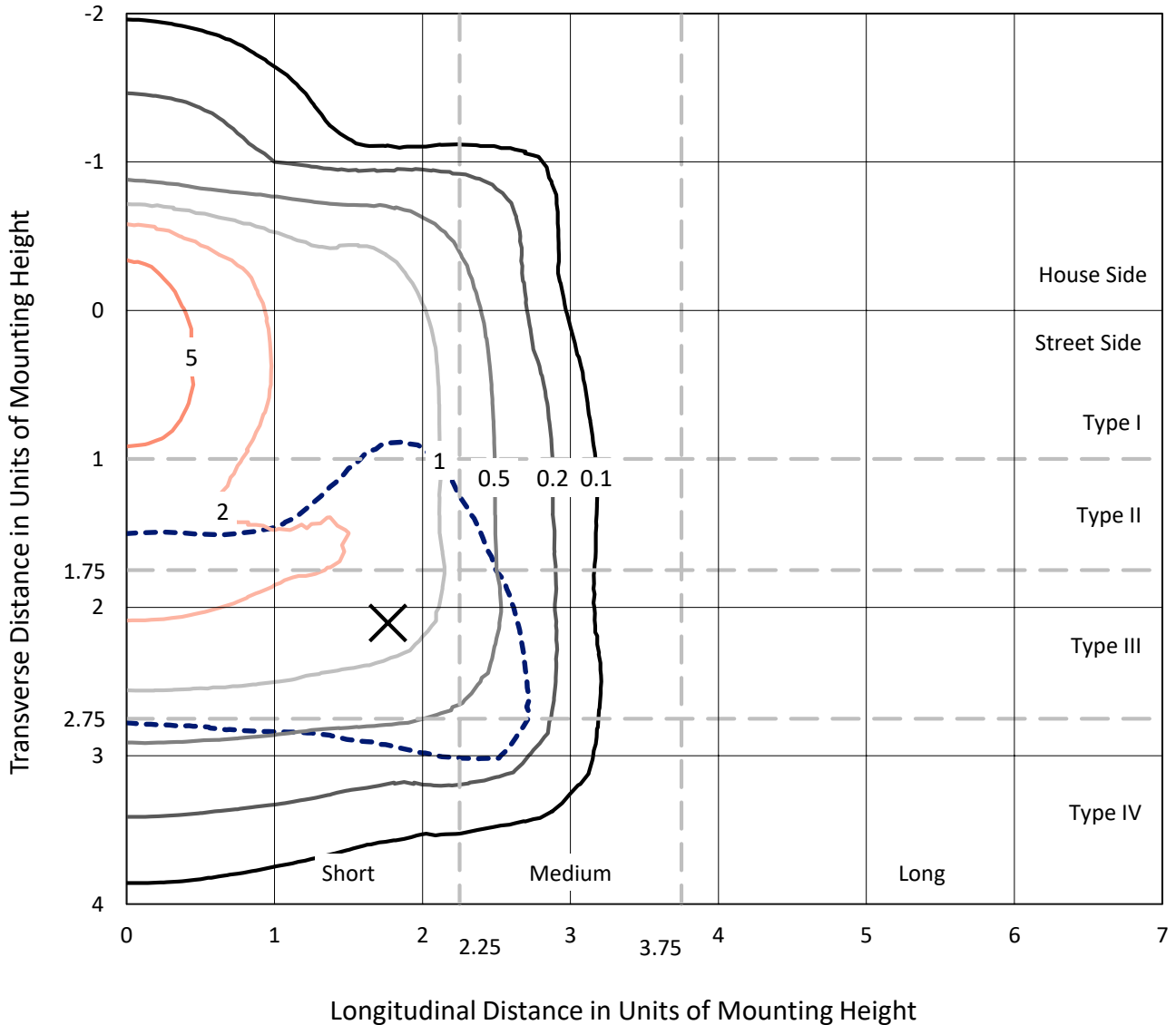
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180931
 CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

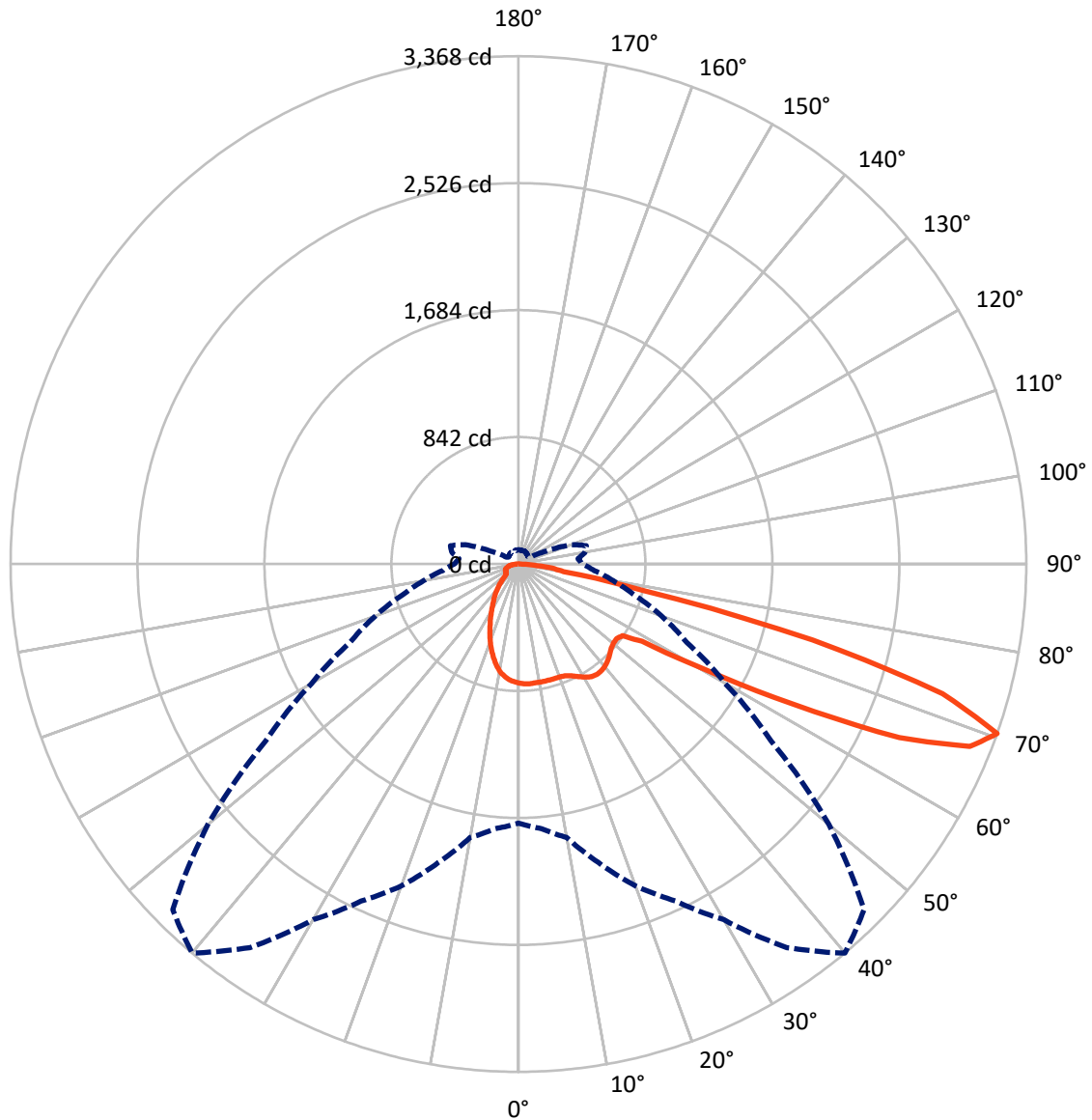


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180931

CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180931

CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

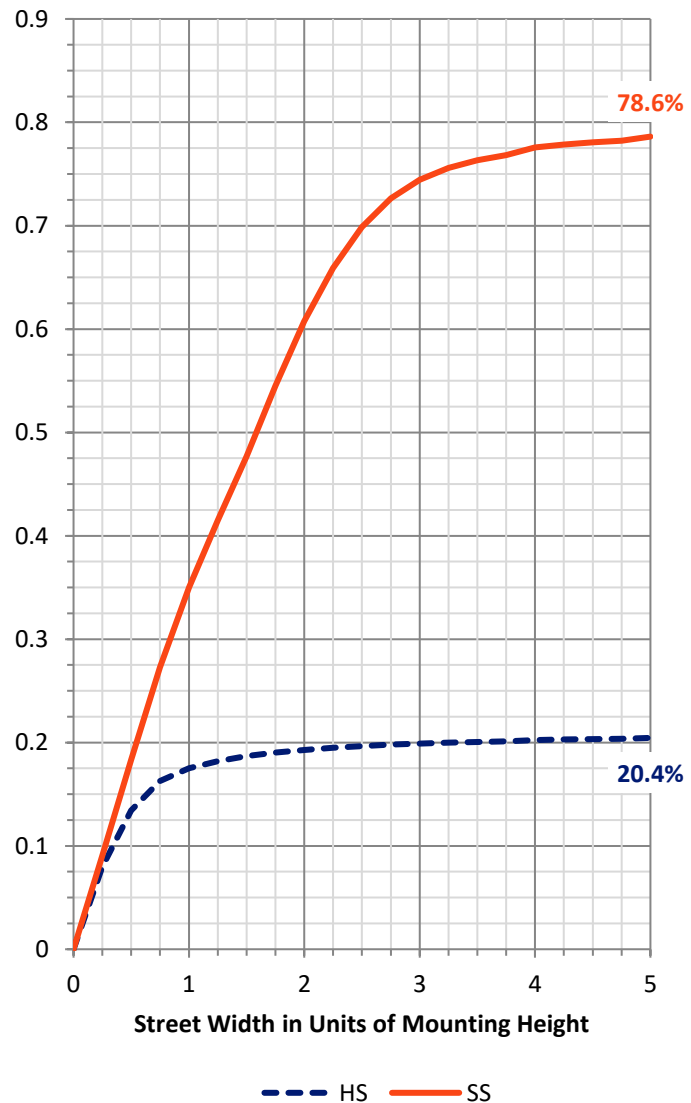
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.1	0.0	769.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	2935.9	0.0	2935.9
	% Fixture	79.2	0.0	79.2
Total	Lumens	3705.0	0.0	3705.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	2.0
10°-20°	202.2	5.5
20°-30°	299.3	8.1
30°-40°	378.2	10.2
40°-50°	427.8	11.5
50°-60°	608.7	16.4
60°-70°	1133.7	30.6
70°-80°	519.6	14.0
80°-90°	61.7	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°	3705.0	100.0
0°-180°	3705.0	100.0



REPORT NUMBER: P180931

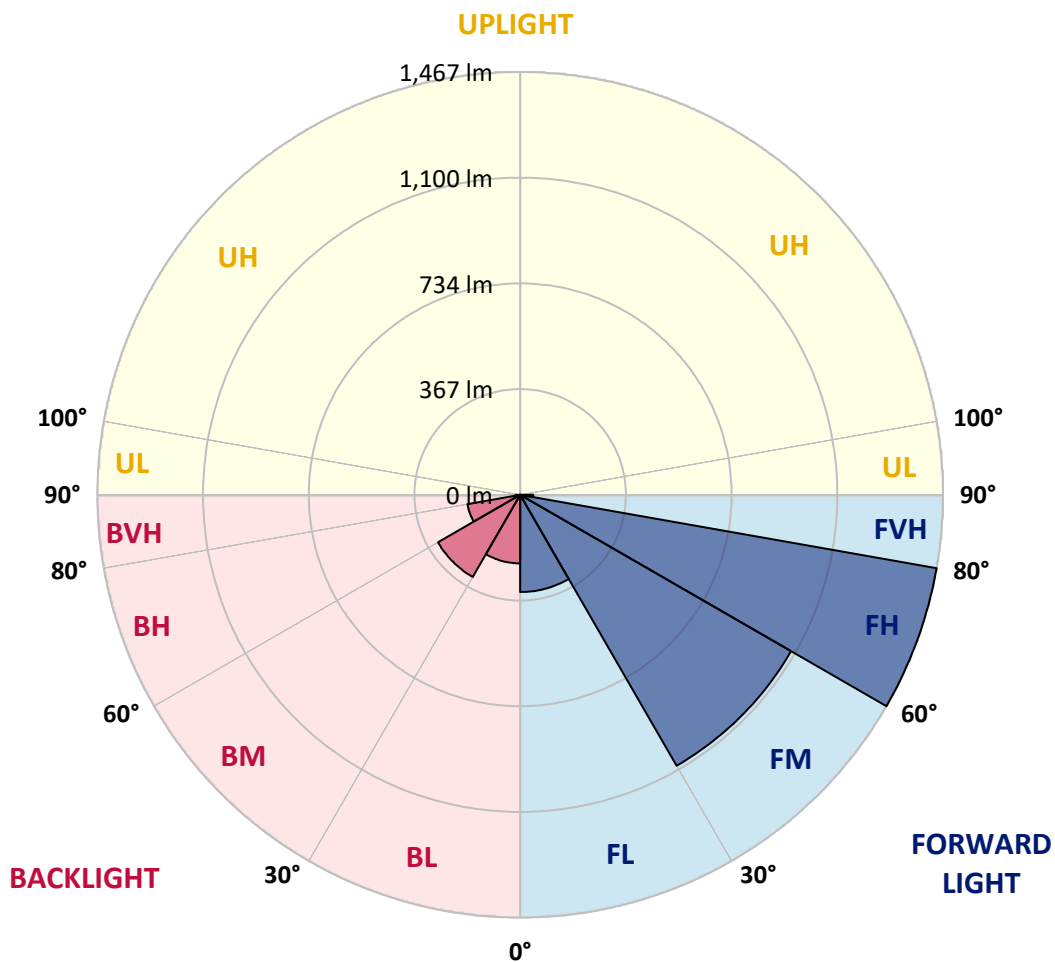
CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.4	9.1			
FM	(30°-60°)	1085.4	29.3			
FH	(60°-80°)	1467.3	39.6			G1/1800
FVH	(80°-90°)	45.8	1.2			G1/100
BL	(0°-30°)	238.0	6.4	B1/500		
BM	(30°-60°)	329.3	8.9	B1/1000		
BH	(60°-80°)	185.9	5.0	B1/500		G1/500
BVH	(80°-90°)	15.9	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: P180931

CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
2.5°	802.7	804.8	802.3	801.8	801.8	801.4	798.9	798.5	795.2	795.6	796.4
5°	808.5	809.4	807.7	807.3	806.4	804.8	802.7	800.2	797.7	795.2	793.1
7.5°	814.4	813.6	812.3	812.3	811.0	808.5	804.4	801.0	795.6	792.6	788.9
10°	822.8	821.5	819.8	819.0	816.9	813.1	807.3	802.7	796.0	790.1	783.9
12.5°	830.7	830.3	827.8	826.5	823.2	819.4	812.3	805.2	796.4	787.2	778.9
15°	844.9	843.2	840.7	838.2	832.8	827.8	816.9	808.5	796.0	783.9	770.9
17.5°	869.6	866.6	864.1	858.7	852.0	843.2	827.3	813.1	796.0	778.4	763.8
20°	914.7	908.5	905.1	898.0	886.3	870.4	845.7	822.8	797.2	774.7	755.0
22.5°	965.7	961.5	956.9	952.3	934.0	911.0	877.5	843.2	804.8	773.0	747.9
25°	1023.0	1017.6	1015.1	1007.1	990.0	963.6	918.1	870.4	821.9	779.7	747.9
27.5°	1074.0	1072.3	1071.9	1062.7	1046.4	1015.5	961.5	904.3	845.3	793.5	754.2
30°	1120.4	1118.7	1117.9	1112.9	1094.1	1057.3	998.8	934.4	870.8	812.7	765.9
32.5°	1169.7	1164.3	1161.8	1152.2	1130.9	1087.8	1020.9	954.0	890.9	831.5	778.9
35°	1209.9	1205.3	1200.3	1186.5	1156.4	1105.4	1030.5	960.7	898.8	842.0	785.5
37.5°	1239.1	1234.5	1227.4	1209.9	1172.7	1111.2	1030.1	958.6	895.9	840.3	786.8
40°	1252.1	1247.5	1240.0	1217.8	1175.6	1107.9	1022.2	949.0	887.1	831.5	781.8
42.5°	1247.1	1243.7	1234.1	1212.8	1166.4	1092.8	1006.3	931.0	870.4	817.3	770.5
45°	1227.9	1225.3	1216.1	1193.6	1145.5	1068.6	982.9	908.5	850.3	799.8	755.4
47.5°	1199.0	1198.2	1189.0	1166.8	1119.2	1044.3	958.6	886.3	830.3	782.6	742.9
50°	1167.2	1163.1	1158.5	1138.0	1094.5	1023.4	941.1	872.5	819.0	776.3	737.5
52.5°	1147.2	1145.9	1141.7	1123.3	1081.5	1011.3	933.1	867.5	818.2	775.1	734.5
55°	1325.3	1328.2	1289.7	1209.9	1139.6	1044.7	956.9	893.0	838.6	795.2	765.5
57.5°	1960.3	1947.3	1881.3	1722.8	1543.9	1307.7	1137.6	1034.3	967.0	974.5	989.6
60°	2283.9	2281.4	2269.3	2207.8	2088.6	1908.9	1709.5	1480.8	1408.0	1416.0	1421.8
62.5°	2428.5	2432.3	2441.5	2418.5	2387.1	2334.9	2235.4	2143.4	2046.0	2009.6	1912.2
65°	2495.4	2502.1	2523.0	2536.0	2548.1	2557.3	2596.6	2704.5	2775.5	2642.6	2333.2
67.5°	2357.0	2389.2	2458.2	2525.5	2585.7	2671.4	2804.4	3054.8	3229.1	3065.7	2617.1
70°	1718.2	1762.1	1841.2	2049.4	2271.8	2466.2	2723.7	3105.0	3367.9	3241.7	2687.3
72.5°	1077.4	1089.5	1124.6	1201.1	1366.2	1615.8	2066.1	2638.0	2941.5	2840.7	2271.3
75°	683.5	687.7	686.5	704.0	732.0	786.4	964.5	1558.1	2015.1	1857.9	1265.9
77.5°	407.2	413.5	416.0	421.4	434.8	454.0	468.6	530.1	844.9	820.2	459.5
80°	341.1	346.2	342.0	340.7	332.4	326.5	333.6	326.5	303.1	291.8	268.8
82.5°	180.6	180.2	178.9	191.1	215.7	235.0	249.6	246.2	222.8	189.8	161.0
85°	99.1	102.4	102.4	106.6	102.8	103.3	106.6	112.5	104.1	87.0	71.1
87.5°	8.4	13.0	10.5	13.0	17.6	12.5	12.1	12.1	10.5	7.5	6.7
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: P180931

CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
2.5°	794.3	793.5	791.8	790.6	790.6	788.5	787.2	786.4	786.0	784.3	784.3
5°	791.8	788.9	786.0	783.9	782.6	780.5	777.2	775.5	773.4	771.7	770.9
7.5°	786.4	780.9	776.3	773.0	768.8	765.5	761.3	757.5	753.8	752.1	751.3
10°	778.0	770.9	763.8	757.5	751.7	745.8	740.4	735.0	730.4	727.0	723.7
12.5°	770.1	759.2	750.0	740.8	731.6	724.5	717.0	709.0	702.3	696.1	694.4
15°	759.2	746.7	735.0	723.7	712.4	700.7	691.5	682.7	671.8	664.7	659.3
17.5°	749.2	734.1	719.9	706.5	692.7	680.6	666.8	655.1	644.2	633.4	625.4
20°	738.3	722.0	706.9	691.9	676.8	661.4	645.5	630.4	617.1	604.1	591.1
22.5°	728.7	712.0	697.3	681.0	664.3	646.7	628.4	609.5	594.1	577.3	562.3
25°	722.8	704.4	689.4	673.5	655.1	635.9	615.0	592.8	574.0	554.8	536.8
27.5°	722.8	699.0	683.5	667.6	648.8	628.4	605.4	581.1	559.8	538.5	516.3
30°	729.1	699.8	678.9	662.2	643.0	620.8	595.3	569.8	546.4	521.3	500.0
32.5°	735.0	701.5	675.6	654.3	632.1	610.4	584.5	557.3	531.4	507.5	485.0
35°	738.7	701.5	669.3	642.1	617.1	595.7	570.2	543.1	516.7	493.3	472.4
37.5°	739.1	698.2	659.3	628.4	602.0	579.9	555.6	530.1	505.0	483.3	465.7
40°	735.0	691.5	649.3	613.7	586.1	563.6	541.4	518.4	495.8	477.8	462.8
42.5°	727.4	684.4	639.6	602.0	573.2	549.8	529.3	509.6	490.0	474.5	462.0
45°	716.1	674.8	630.9	594.9	566.5	541.8	521.7	505.4	488.7	475.8	463.2
47.5°	706.1	671.4	633.8	599.5	569.8	544.3	523.8	510.0	497.1	488.3	471.2
50°	704.0	669.7	635.0	603.3	573.2	547.2	529.3	522.2	518.4	513.0	486.6
52.5°	698.2	669.3	644.2	626.7	607.4	595.3	576.5	583.2	579.0	559.8	512.1
55°	759.6	768.0	791.4	824.8	855.8	862.9	860.8	852.9	810.6	697.3	573.6
57.5°	1044.3	1091.6	1135.9	1155.5	1153.0	1130.9	1115.0	1082.8	1021.7	883.8	694.8
60°	1439.8	1447.3	1423.9	1389.2	1330.7	1281.8	1229.5	1169.3	1080.7	945.7	769.2
62.5°	1803.9	1702.8	1598.7	1500.9	1411.8	1334.0	1261.3	1177.3	1061.9	921.0	759.6
65°	2061.1	1847.0	1682.7	1542.2	1416.4	1307.7	1217.0	1107.9	977.9	850.8	704.0
67.5°	2193.6	1865.4	1613.3	1417.7	1239.1	1088.6	967.8	861.6	765.1	709.5	616.2
70°	2045.6	1583.2	1232.0	1010.9	797.2	639.2	505.0	423.9	395.9	448.6	466.6
72.5°	1524.3	1030.5	732.9	566.9	434.4	346.2	265.5	208.6	169.7	178.1	231.2
75°	720.7	444.8	314.4	239.1	190.2	157.6	128.8	117.9	98.7	81.9	76.9
77.5°	280.5	204.4	168.9	123.7	87.8	70.7	60.2	58.1	59.4	57.7	56.9
80°	213.6	144.7	90.7	66.5	57.3	50.6	44.7	43.1	43.9	46.0	48.1
82.5°	119.1	74.4	55.2	48.1	43.1	36.8	33.4	30.9	31.4	33.9	38.5
85°	46.0	36.0	33.0	31.8	29.7	23.8	20.5	20.9	23.8	28.4	28.4
87.5°	5.0	5.0	6.7	5.0	5.0	5.0	4.6	5.4	5.9	7.5	8.8
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: P180931

CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6	790.6
2.5°	783.5	783.5	783.5	782.6	783.0	781.4	781.4	780.1	782.2	780.9	780.5
5°	771.3	770.9	769.2	769.2	769.2	769.2	770.5	767.1	769.7	769.7	768.4
7.5°	750.8	750.8	746.2	748.8	747.9	749.2	750.8	749.2	751.7	753.4	752.1
10°	722.4	722.4	718.7	721.6	720.3	723.3	726.2	724.5	726.2	728.7	729.5
12.5°	691.1	689.4	686.0	687.3	687.3	689.0	690.2	692.3	694.4	697.7	699.4
15°	654.7	652.2	648.0	648.0	645.5	646.3	648.8	649.7	653.9	658.5	663.9
17.5°	617.5	611.2	606.6	601.2	597.0	600.3	603.3	605.4	608.7	615.8	619.6
20°	582.4	569.8	561.0	553.9	549.3	551.4	555.2	557.7	560.6	562.3	563.6
22.5°	547.7	533.4	521.3	512.5	505.0	507.1	505.4	504.2	506.3	500.8	500.4
25°	517.6	500.8	484.5	474.1	464.9	462.0	453.2	451.1	445.2	440.6	437.3
27.5°	495.8	474.1	456.1	444.0	429.4	418.5	407.2	395.9	389.6	382.1	378.3
30°	478.7	455.7	434.4	413.9	394.7	377.9	362.9	348.2	338.2	327.3	320.2
32.5°	462.8	441.5	415.6	387.5	361.6	342.8	323.2	306.4	290.6	276.3	265.9
35°	451.9	428.1	395.1	360.8	331.5	309.4	288.5	264.6	245.4	227.0	215.7
37.5°	446.1	416.8	376.3	338.2	305.6	280.5	254.6	227.0	203.6	186.5	169.3
40°	441.5	405.5	359.5	318.1	283.9	253.8	223.7	191.1	165.1	147.2	133.8
42.5°	436.5	393.0	344.9	302.3	264.2	229.1	192.7	158.0	133.4	120.8	115.0
45°	431.0	382.1	331.1	287.2	245.0	202.3	160.5	128.3	113.7	109.5	109.5
47.5°	429.8	375.0	321.1	272.6	223.2	171.4	130.9	110.8	106.6	107.4	109.1
50°	434.8	372.9	312.3	255.4	194.4	138.8	110.8	104.1	104.9	107.4	110.0
52.5°	446.9	374.6	303.1	231.6	160.1	114.5	102.4	102.0	104.5	108.3	110.8
55°	467.4	374.6	285.5	196.1	127.9	102.8	99.5	101.2	104.5	107.9	110.0
57.5°	511.3	370.8	254.6	156.8	107.0	98.7	98.7	100.8	103.7	107.0	108.7
60°	563.6	365.8	211.1	121.2	96.6	95.3	98.2	100.8	103.3	106.2	107.9
62.5°	566.9	352.8	167.2	100.3	91.1	93.2	97.8	101.2	102.0	104.1	106.2
65°	520.9	307.7	132.9	89.9	88.6	92.0	96.6	99.1	99.5	100.3	102.4
67.5°	456.1	250.8	107.4	84.9	86.1	89.9	92.4	94.5	95.7	97.8	98.2
70°	374.6	201.5	92.0	79.9	81.1	85.3	87.4	89.5	92.0	94.5	93.2
72.5°	265.5	156.8	80.7	74.4	76.1	79.9	82.4	84.0	86.1	88.6	87.0
75°	112.9	109.5	69.8	67.3	69.8	72.3	74.8	77.3	79.4	80.7	80.7
77.5°	57.7	64.4	60.2	60.2	61.9	64.4	66.5	69.0	70.2	71.5	73.2
80°	48.9	49.7	50.6	52.3	53.9	56.4	58.5	60.6	61.0	61.5	62.3
82.5°	40.6	42.2	43.1	45.6	46.8	47.7	48.9	48.9	49.7	49.7	48.5
85°	29.3	31.4	32.6	33.0	32.6	33.0	33.4	34.3	36.4	36.4	34.7
87.5°	8.4	7.9	10.0	10.5	11.3	13.0	14.6	17.6	18.4	19.2	19.2
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: P180931

CATALOG NUMBER: ICS-F02-LED-E1-SL4-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	790.6	790.6	790.6	790.6
2.5°	780.1	780.9	779.3	779.7
5°	768.4	770.1	768.0	770.5
7.5°	753.4	755.9	755.4	755.0
10°	731.6	735.0	735.0	736.2
12.5°	704.0	706.1	707.8	708.6
15°	666.8	670.6	672.7	672.7
17.5°	622.1	624.6	625.8	624.2
20°	565.2	564.4	564.8	560.6
22.5°	499.6	500.8	497.1	497.9
25°	435.2	433.1	434.8	432.3
27.5°	372.9	373.3	368.7	370.8
30°	313.5	311.5	305.6	308.5
32.5°	256.3	250.8	244.6	240.8
35°	202.3	194.0	191.1	189.8
37.5°	158.9	149.7	146.7	143.4
40°	126.3	122.9	121.7	122.5
42.5°	113.3	113.3	114.1	114.5
45°	110.0	111.2	112.5	112.9
47.5°	110.4	111.6	113.3	113.7
50°	111.2	112.5	113.7	114.1
52.5°	111.6	111.6	112.5	112.9
55°	110.8	110.4	110.8	111.2
57.5°	109.1	108.3	108.7	110.0
60°	108.3	107.0	107.9	108.7
62.5°	106.2	105.8	106.6	107.0
65°	101.6	102.0	103.3	103.3
67.5°	97.4	97.8	98.2	98.7
70°	92.4	92.8	93.6	94.1
72.5°	86.5	88.2	89.5	91.1
75°	81.9	83.6	86.1	87.8
77.5°	74.0	75.3	78.2	80.3
80°	62.7	62.3	62.7	64.0
82.5°	48.1	48.1	47.7	47.2
85°	33.9	33.4	32.2	32.2
87.5°	18.4	18.0	17.6	16.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)