

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: P180732

Luminaire Tested: **ICS-F02-LED-E1-SL3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180732
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
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-SL3-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4120.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-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



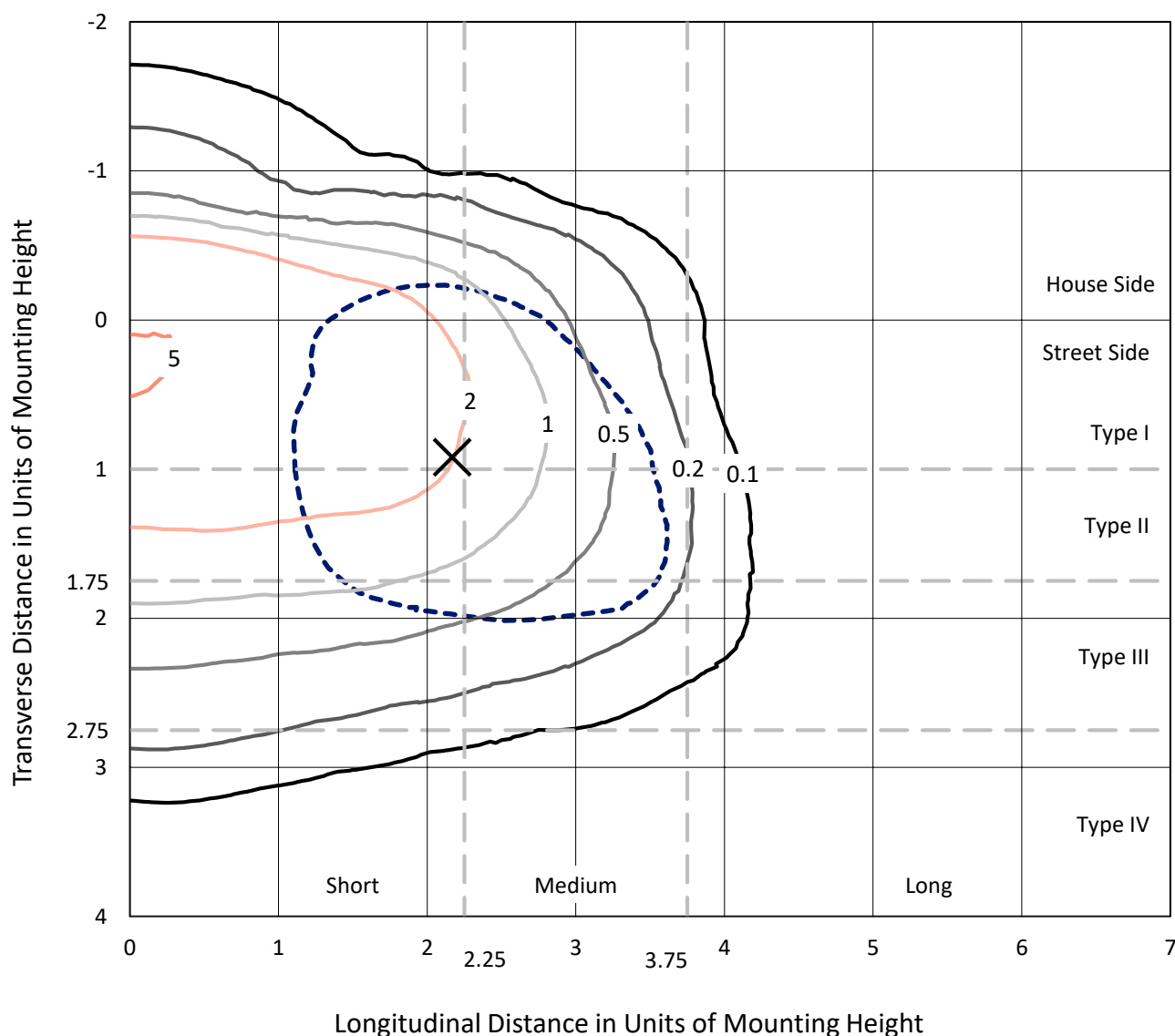
REPORT NUMBER: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

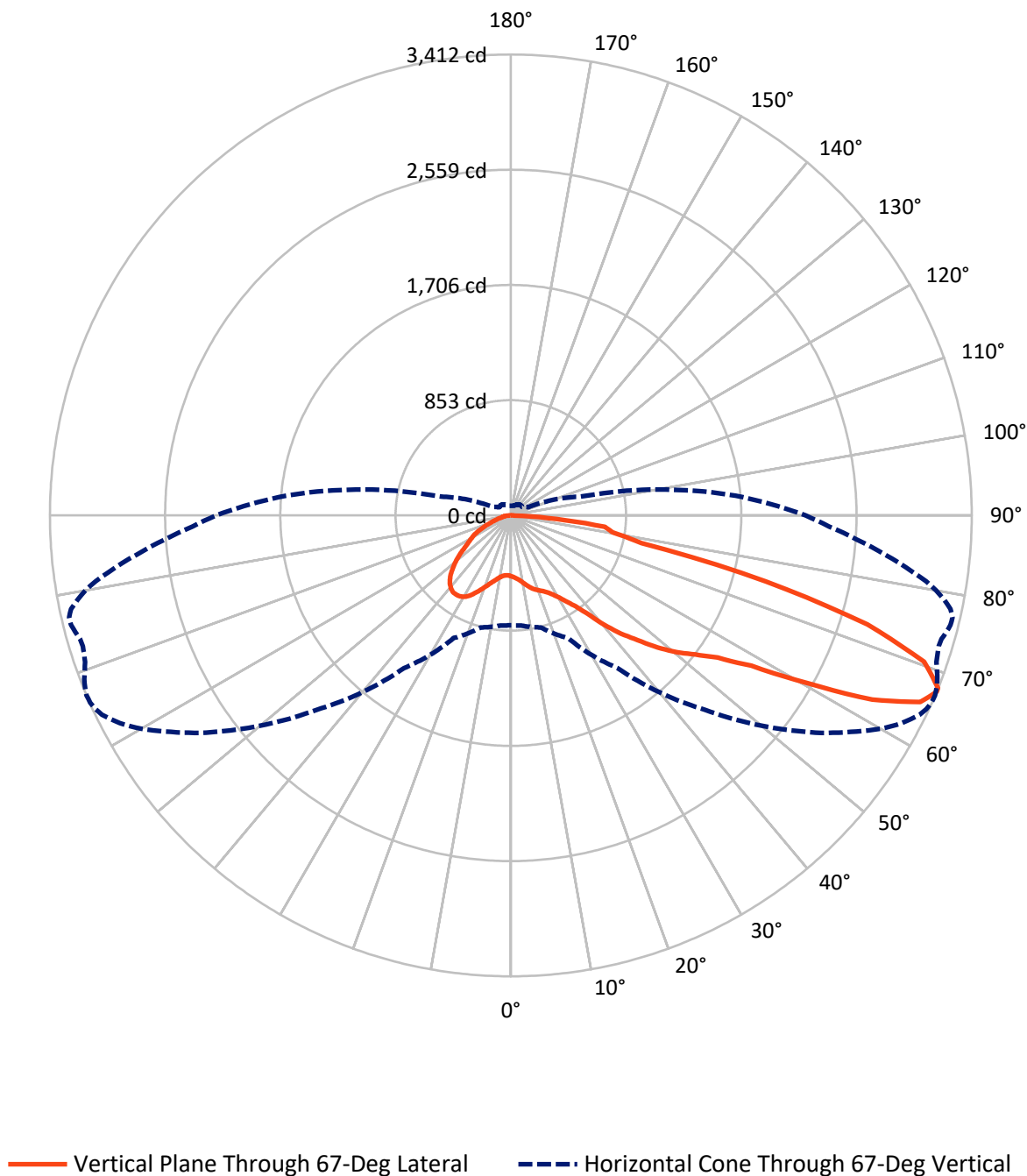


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P180732

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.9	0.0	950.9
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	3169.9	0.0	3169.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	4120.9	0.0	4120.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.1
10°-20°	153.7	3.7
20°-30°	271.4	6.6
30°-40°	389.5	9.5
40°-50°	591.6	14.4
50°-60°	871.0	21.1
60°-70°	1157.5	28.1
70°-80°	566.3	13.7
80°-90°	75.2	1.8
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°	4120.9	100.0
0°-180°	4120.9	100.0

Coefficient of Utilization



REPORT NUMBER: P180732

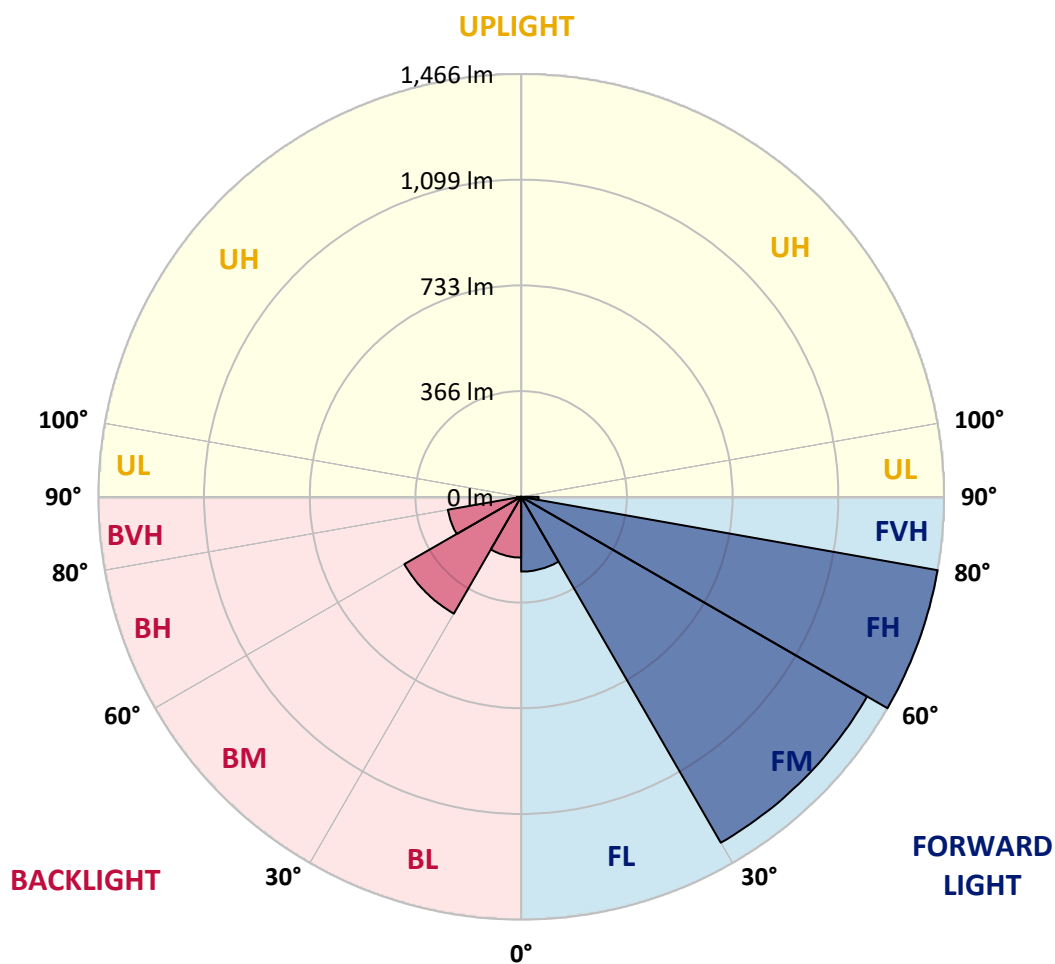
CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.2	6.3			
FM	(30°-60°)	1384.5	33.6			
FH	(60°-80°)	1465.8	35.6			G1/1800
FVH	(80°-90°)	60.4	1.5			G1/100
BL	(0°-30°)	210.6	5.1	B1/500		
BM	(30°-60°)	467.5	11.3	B1/1000		
BH	(60°-80°)	258.0	6.3	B1/500		G1/500
BVH	(80°-90°)	14.8	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 III Short



REPORT NUMBER: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	471.4	471.9	471.0	470.5	467.8	465.1	463.3	461.0	461.0	461.0	460.1
5°	498.1	496.3	497.7	494.5	489.1	484.1	479.1	475.0	474.1	474.1	472.3
7.5°	530.2	528.0	527.1	522.5	514.4	507.2	497.2	493.1	490.9	490.0	489.1
10°	569.1	569.1	563.3	555.6	544.7	532.0	521.2	513.9	513.5	513.5	509.4
12.5°	609.0	609.9	602.2	594.5	576.8	560.1	547.4	539.3	538.8	537.0	534.8
15°	645.6	643.3	638.4	627.1	607.6	587.7	571.9	563.7	561.9	560.1	558.7
17.5°	675.9	673.7	667.3	652.8	632.5	609.0	589.5	580.9	580.0	579.1	577.3
20°	694.9	693.1	684.1	667.3	646.1	622.1	601.3	595.4	593.6	593.6	592.7
22.5°	705.8	703.1	689.9	667.8	647.0	629.3	612.1	608.5	607.1	607.6	607.6
25°	711.2	708.9	690.4	658.7	638.8	633.8	626.6	624.3	624.8	625.2	626.2
27.5°	712.1	708.9	687.2	647.0	628.4	642.4	647.4	651.0	651.0	652.8	656.0
30°	705.3	701.7	680.9	637.9	623.9	659.6	679.5	689.0	692.7	691.8	699.0
32.5°	693.6	691.3	674.6	637.9	636.6	693.6	728.8	742.4	744.2	745.1	753.3
35°	689.5	689.0	681.8	659.6	675.9	753.3	807.1	817.5	819.8	819.8	825.7
37.5°	688.6	690.8	699.0	700.3	745.1	842.0	912.5	928.4	928.4	932.9	932.9
40°	688.6	693.6	724.3	761.0	829.7	957.3	1055.0	1073.1	1073.1	1078.1	1075.4
42.5°	715.3	722.5	773.2	842.9	936.5	1076.3	1188.5	1208.9	1210.2	1208.9	1212.9
45°	767.8	774.1	835.6	935.6	1046.4	1203.9	1316.1	1340.5	1335.5	1338.7	1340.1
47.5°	837.4	847.4	917.5	1036.9	1153.7	1322.0	1459.1	1481.2	1479.4	1480.8	1474.9
50°	911.6	922.0	1000.3	1137.4	1260.4	1417.0	1574.0	1607.0	1603.8	1606.1	1609.3
52.5°	977.2	983.6	1059.1	1212.9	1341.4	1505.7	1662.2	1703.4	1710.6	1711.5	1713.8
55°	1016.1	1023.8	1093.0	1250.5	1400.2	1592.5	1763.1	1825.5	1839.5	1843.2	1853.1
57.5°	1029.7	1037.9	1100.7	1255.9	1432.4	1674.0	1903.8	2013.7	2025.5	2044.9	2076.6
60°	1029.3	1037.9	1092.6	1243.7	1464.9	1774.8	2122.8	2306.9	2366.6	2386.5	2431.8
62.5°	987.2	997.1	1052.8	1206.6	1506.6	1903.8	2448.5	2731.7	2808.6	2844.8	2893.7
65°	894.9	902.1	954.2	1112.5	1494.8	2030.9	2720.9	3074.2	3144.3	3197.3	3284.6
67°	813.0	817.5	858.2	1001.2	1379.9	2035.4	2806.8	3159.3	3220.3	3276.4	3366.5
67.5°	792.2	801.7	833.4	967.3	1336.9	2009.7	2800.9	3146.1	3208.6	3266.9	3361.9
70°	644.7	658.3	674.1	764.1	1051.0	1690.7	2593.3	2919.0	2973.8	3028.1	3160.6
72.5°	397.7	422.1	425.3	482.3	684.1	1168.6	2098.3	2461.6	2502.8	2541.7	2677.4
75°	234.4	238.0	249.3	295.4	401.3	698.5	1407.9	1828.7	1866.7	1885.7	1992.0
77.5°	130.7	134.4	143.9	183.7	308.6	470.5	819.8	1074.5	1097.6	1121.6	1104.4
80°	54.3	59.3	63.8	74.2	144.3	371.4	563.7	683.2	698.1	712.1	729.8
82.5°	26.2	28.1	34.4	39.4	52.5	152.5	442.0	592.2	609.9	630.2	671.4
85°	12.2	13.6	19.0	22.6	25.3	38.5	147.9	288.2	312.6	317.1	325.3
87.5°	0.9	0.9	2.3	3.2	4.5	5.0	15.4	21.7	24.4	22.2	28.1
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: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	459.7	459.2	458.3	458.3	457.8	457.8	457.8	456.9	456.9	456.9	456.5
5°	471.9	471.4	470.1	470.1	469.2	469.2	467.8	467.4	466.4	466.4	466.0
7.5°	487.7	487.3	485.4	485.4	484.1	483.6	482.7	481.4	481.4	480.5	479.6
10°	509.4	508.1	507.6	505.4	505.8	504.9	504.0	502.6	501.7	500.8	499.9
12.5°	533.9	533.9	531.6	530.2	531.1	530.2	528.4	528.0	526.6	526.6	525.3
15°	556.9	556.9	556.0	554.2	554.7	553.3	552.9	552.0	550.1	550.6	550.1
17.5°	576.8	576.8	575.5	574.6	574.6	573.2	573.7	572.8	571.9	571.4	570.1
20°	592.7	592.7	591.8	590.9	591.3	591.3	590.0	590.0	590.0	589.1	589.1
22.5°	608.1	608.5	608.5	608.5	609.0	609.4	609.0	609.9	609.4	610.3	610.3
25°	628.4	629.8	630.7	630.7	632.9	633.4	633.8	635.2	635.2	636.6	637.0
27.5°	658.7	659.6	663.2	664.2	664.6	668.2	668.7	670.5	672.3	672.7	673.2
30°	700.3	702.6	705.3	707.1	707.1	711.7	713.5	712.6	717.5	718.9	720.7
32.5°	756.0	757.8	760.5	762.3	764.1	766.4	766.9	769.1	773.2	776.8	774.5
35°	826.1	830.6	826.1	831.1	832.5	835.6	834.7	837.4	839.2	840.6	840.1
37.5°	927.9	925.7	924.7	922.9	919.8	930.6	925.2	924.7	922.0	929.7	924.7
40°	1061.8	1063.2	1064.5	1057.3	1053.2	1053.2	1051.9	1046.9	1044.6	1051.4	1050.5
42.5°	1201.6	1203.0	1196.7	1192.1	1181.7	1180.4	1174.0	1172.7	1170.4	1174.0	1170.4
45°	1328.8	1329.7	1315.6	1317.9	1309.8	1311.1	1301.2	1305.2	1299.8	1303.4	1310.2
47.5°	1470.8	1472.6	1460.4	1465.4	1457.2	1452.3	1451.8	1454.5	1448.7	1452.3	1454.1
50°	1599.8	1597.5	1591.2	1592.5	1588.9	1589.8	1584.4	1589.4	1582.6	1589.8	1588.9
52.5°	1714.2	1711.5	1710.2	1714.7	1711.5	1711.5	1708.3	1710.6	1711.5	1722.4	1724.6
55°	1853.1	1855.4	1857.6	1865.8	1869.4	1863.5	1869.4	1880.7	1881.2	1907.0	1921.0
57.5°	2076.2	2092.0	2100.1	2105.1	2126.4	2124.1	2137.7	2164.8	2167.5	2227.3	2262.1
60°	2465.2	2493.3	2520.0	2505.5	2548.5	2561.6	2569.7	2620.4	2636.3	2692.8	2723.1
62.5°	2956.6	2959.7	3001.4	2988.2	3012.7	3006.8	3016.7	3039.8	3060.6	3107.2	3135.7
65°	3299.5	3314.4	3330.7	3314.0	3313.5	3293.6	3281.0	3280.5	3293.2	3303.1	3334.8
67°	3392.7	3407.6	3411.7	3399.5	3381.8	3356.5	3333.0	3320.8	3312.6	3317.1	3337.1
67.5°	3391.8	3405.8	3410.8	3399.0	3374.6	3353.3	3328.5	3314.4	3303.6	3305.8	3322.6
70°	3199.1	3229.4	3245.7	3249.3	3246.1	3209.0	3187.8	3175.1	3166.0	3143.9	3142.5
72.5°	2710.5	2747.1	2759.8	2780.1	2789.2	2734.4	2711.4	2725.4	2693.7	2623.6	2626.8
75°	1990.2	1992.9	1950.4	1942.2	1911.9	1788.0	1750.9	1716.9	1662.6	1578.0	1498.4
77.5°	1037.4	1036.9	988.1	963.2	927.0	852.4	848.7	788.1	745.6	668.2	640.2
80°	737.0	748.8	765.0	773.2	760.5	731.6	691.8	648.8	599.5	551.0	493.1
82.5°	685.4	692.7	701.3	669.6	651.9	611.2	580.9	518.5	483.6	428.4	370.1
85°	333.4	355.6	338.4	318.5	311.7	243.9	235.7	196.8	178.7	147.0	137.1
87.5°	21.3	26.2	23.5	21.3	18.5	10.4	14.0	10.0	10.4	7.7	6.8
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: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	456.5	456.0	455.6	455.1	454.7	454.7	454.2	453.8	453.3	452.4	452.4
5°	465.1	465.1	464.6	463.7	463.7	462.8	461.5	461.0	461.0	460.1	459.2
7.5°	479.1	478.7	477.8	477.3	476.4	475.5	474.6	473.7	473.2	471.9	471.4
10°	500.4	499.5	497.2	496.3	495.9	494.9	494.0	493.1	491.8	490.9	490.4
12.5°	524.4	523.9	522.1	523.0	520.7	519.8	518.9	516.7	517.6	515.8	514.9
15°	548.3	548.8	547.9	547.9	546.1	544.7	543.8	542.0	541.5	540.6	539.7
17.5°	569.6	570.5	569.1	568.2	567.3	566.4	564.6	562.8	562.8	561.0	560.1
20°	589.1	590.0	589.5	588.6	587.2	586.8	585.9	584.5	584.5	583.6	582.3
22.5°	611.2	611.7	611.7	611.2	609.9	610.3	609.4	608.1	608.5	606.7	606.7
25°	637.9	638.8	639.7	640.2	639.3	639.7	638.8	637.9	637.5	637.9	637.5
27.5°	674.6	675.5	678.2	675.9	678.2	678.6	677.3	675.5	676.8	679.1	677.7
30°	723.0	722.1	725.7	726.1	725.7	726.1	725.2	723.9	724.8	728.8	726.6
32.5°	777.3	779.1	780.0	780.9	782.2	784.0	782.7	781.3	783.6	782.2	785.4
35°	842.9	846.9	848.3	846.9	847.8	851.0	850.6	851.0	855.5	851.0	856.9
37.5°	925.7	929.7	932.9	931.1	933.3	933.3	937.0	946.9	940.6	948.7	955.1
40°	1046.0	1052.3	1052.8	1052.3	1054.6	1057.3	1060.9	1071.8	1064.5	1073.1	1079.0
42.5°	1170.0	1177.7	1180.4	1175.8	1180.8	1186.7	1187.2	1196.7	1197.1	1198.5	1201.6
45°	1309.8	1316.5	1322.0	1319.7	1320.2	1327.9	1326.0	1335.1	1328.3	1328.3	1330.1
47.5°	1458.6	1464.9	1468.6	1472.2	1467.7	1474.4	1477.6	1475.8	1467.7	1465.8	1455.0
50°	1594.3	1599.8	1605.2	1615.1	1614.7	1617.9	1620.1	1612.0	1610.2	1600.2	1588.0
52.5°	1738.2	1752.2	1764.4	1785.3	1788.4	1799.3	1795.2	1781.6	1779.4	1763.1	1746.8
55°	1938.6	1978.9	1996.5	2028.7	2050.4	2049.9	2040.9	2038.6	2021.4	1988.8	1969.4
57.5°	2287.4	2350.3	2380.6	2422.3	2429.0	2425.0	2413.2	2392.4	2362.5	2307.8	2272.5
60°	2791.0	2829.9	2865.2	2875.1	2880.1	2872.4	2831.2	2785.1	2726.7	2651.2	2588.3
62.5°	3171.5	3211.3	3237.5	3233.5	3202.2	3162.9	3102.7	3025.3	2943.4	2858.8	2764.7
65°	3365.1	3381.8	3377.8	3346.1	3292.7	3223.9	3136.2	3040.7	2944.4	2844.4	2746.6
67°	3354.7	3355.2	3327.6	3266.0	3197.7	3111.3	3004.1	2900.0	2786.9	2681.9	2565.7
67.5°	3336.2	3334.3	3295.9	3228.5	3154.7	3065.6	2954.3	2846.6	2729.5	2623.6	2503.2
70°	3126.2	3100.9	3014.0	2906.4	2803.7	2683.3	2566.6	2443.1	2311.0	2220.0	2081.6
72.5°	2568.8	2483.3	2333.6	2220.9	2111.0	1953.6	1880.7	1727.3	1634.6	1576.7	1472.2
75°	1487.6	1416.1	1300.3	1194.8	1141.5	1048.3	1003.9	891.3	867.7	866.8	830.6
77.5°	567.8	495.4	420.8	338.9	288.2	228.9	201.8	180.5	164.2	175.5	159.3
80°	425.7	350.2	273.7	199.1	142.1	105.0	90.0	83.2	79.2	76.0	73.7
82.5°	317.1	250.2	194.1	126.7	88.7	67.0	57.9	54.3	52.5	49.3	46.6
85°	107.2	86.0	67.9	47.1	37.1	30.3	28.1	27.1	25.8	23.5	22.2
87.5°	5.9	5.4	5.9	4.5	5.4	4.5	5.0	5.0	5.0	4.5	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: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2	450.2
2.5°	452.0	452.0	452.0	451.1	449.7	447.0	444.3	442.0	439.8	438.4	437.5
5°	458.8	457.8	457.4	456.9	453.8	448.3	443.4	438.8	434.3	430.7	429.3
7.5°	471.0	469.2	468.7	467.4	463.3	455.1	447.9	440.7	434.3	429.3	427.1
10°	489.5	489.5	486.8	485.0	480.5	469.6	459.2	449.7	441.1	435.7	434.3
12.5°	513.0	513.0	510.8	509.4	504.0	490.0	477.3	466.0	457.8	452.4	452.0
15°	537.5	537.0	535.2	533.4	527.5	512.6	499.9	490.0	483.2	476.9	475.0
17.5°	559.2	559.2	556.9	555.1	549.2	536.6	525.3	518.0	510.3	497.2	487.3
20°	580.9	581.4	579.6	577.7	572.8	561.9	556.9	549.7	532.5	504.0	480.5
22.5°	604.9	606.7	604.4	602.6	598.6	594.0	592.2	575.0	538.8	493.1	458.8
25°	635.7	638.8	636.1	635.2	632.9	634.3	628.9	589.1	529.8	469.6	426.6
27.5°	677.7	677.7	678.2	678.2	677.3	682.3	662.3	589.5	509.9	439.3	388.2
30°	727.0	729.8	728.8	728.8	732.5	735.6	680.9	579.6	484.5	401.7	341.1
32.5°	786.3	788.6	789.5	785.4	799.9	783.6	687.7	561.5	453.3	355.2	285.0
35°	857.8	861.0	863.2	863.7	873.2	825.2	684.1	534.8	408.5	296.8	223.5
37.5°	951.0	957.3	962.3	964.6	965.0	860.5	674.1	499.5	350.2	231.6	166.5
40°	1075.0	1081.7	1080.4	1084.9	1059.1	881.3	651.5	448.3	277.8	170.1	128.5
42.5°	1194.4	1195.3	1197.1	1193.0	1140.6	892.2	619.8	385.9	208.1	127.1	109.9
45°	1327.9	1320.2	1311.6	1305.2	1215.7	896.2	576.4	309.9	147.0	106.8	101.8
47.5°	1453.2	1442.8	1425.1	1407.0	1282.6	889.9	520.7	232.1	111.7	97.7	96.4
50°	1576.2	1556.8	1531.9	1511.1	1346.9	880.4	459.2	167.4	97.7	93.2	91.8
52.5°	1728.7	1696.1	1663.6	1636.4	1430.6	865.5	394.5	127.1	91.8	89.6	87.8
55°	1937.7	1892.5	1840.0	1802.0	1544.1	842.9	326.6	107.7	89.1	87.3	84.6
57.5°	2227.3	2159.4	2100.1	2038.2	1699.3	819.8	268.3	100.0	88.7	86.0	82.3
60°	2523.2	2441.7	2366.2	2277.5	1857.6	796.7	227.6	99.1	90.0	86.0	80.5
62.5°	2677.0	2592.8	2501.9	2411.9	1926.0	742.4	199.5	100.4	93.2	87.3	80.5
65°	2641.7	2539.0	2446.7	2354.8	1846.8	639.7	168.8	102.2	99.5	92.7	81.9
67°	2464.3	2357.1	2268.4	2180.7	1670.3	535.7	144.8	104.1	106.3	99.1	84.6
67.5°	2401.9	2294.7	2207.4	2121.9	1618.3	513.9	138.9	105.0	107.7	100.9	85.5
70°	1991.6	1912.8	1820.1	1754.0	1310.2	380.5	114.0	106.8	115.8	111.3	89.6
72.5°	1433.3	1358.2	1288.5	1251.8	965.0	266.0	95.9	105.0	120.8	117.2	91.4
75°	761.9	757.4	732.0	750.1	597.2	173.7	84.6	98.2	115.4	107.2	85.1
77.5°	153.8	158.3	185.9	183.2	192.7	96.8	72.4	84.2	89.1	78.7	69.2
80°	71.5	70.1	68.8	69.7	68.3	62.0	58.8	66.1	62.0	50.7	46.1
82.5°	44.3	43.4	42.1	41.6	46.1	49.3	51.6	52.0	41.2	35.3	33.9
85°	21.3	21.3	20.8	21.7	27.1	40.3	43.4	38.5	27.6	25.3	24.0
87.5°	4.1	4.1	4.5	4.1	5.4	9.5	10.9	12.7	10.4	10.9	12.2
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: P180732

CATALOG NUMBER: ICS-F02-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	450.2	450.2	450.2
2.5°	436.6	435.7	435.7
5°	427.5	427.1	427.1
7.5°	425.3	425.7	425.3
10°	433.9	433.4	435.2
12.5°	452.9	454.2	453.8
15°	472.8	473.7	473.7
17.5°	478.7	475.5	475.0
20°	463.3	457.4	456.0
22.5°	434.3	423.5	423.9
25°	397.7	384.6	385.5
27.5°	355.2	341.1	340.7
30°	304.0	288.6	281.0
32.5°	242.5	223.9	223.9
35°	182.3	167.4	162.0
37.5°	138.4	129.8	127.1
40°	115.4	111.3	110.4
42.5°	105.0	103.6	103.2
45°	99.5	98.6	98.2
47.5°	94.6	94.1	93.7
50°	90.9	90.5	90.0
52.5°	87.8	86.9	86.4
55°	83.2	83.2	83.2
57.5°	80.5	80.5	80.1
60°	77.8	77.4	77.4
62.5°	75.6	74.6	75.1
65°	74.2	72.8	72.8
67°	73.3	70.6	70.6
67.5°	73.3	69.7	69.7
70°	71.9	66.1	65.1
72.5°	70.6	62.0	60.6
75°	67.0	58.8	57.5
77.5°	57.5	52.5	51.6
80°	44.3	38.5	39.4
82.5°	32.1	27.6	27.1
85°	23.1	19.9	19.9
87.5°	12.2	10.4	10.9
90°	0.0	0.0	0.0

(END OF REPORT)