

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: McGRAW-EDISON

Report Number: P226769

Luminaire Tested: **ISW-AF-350-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-350-LED-E1-SL2-7030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

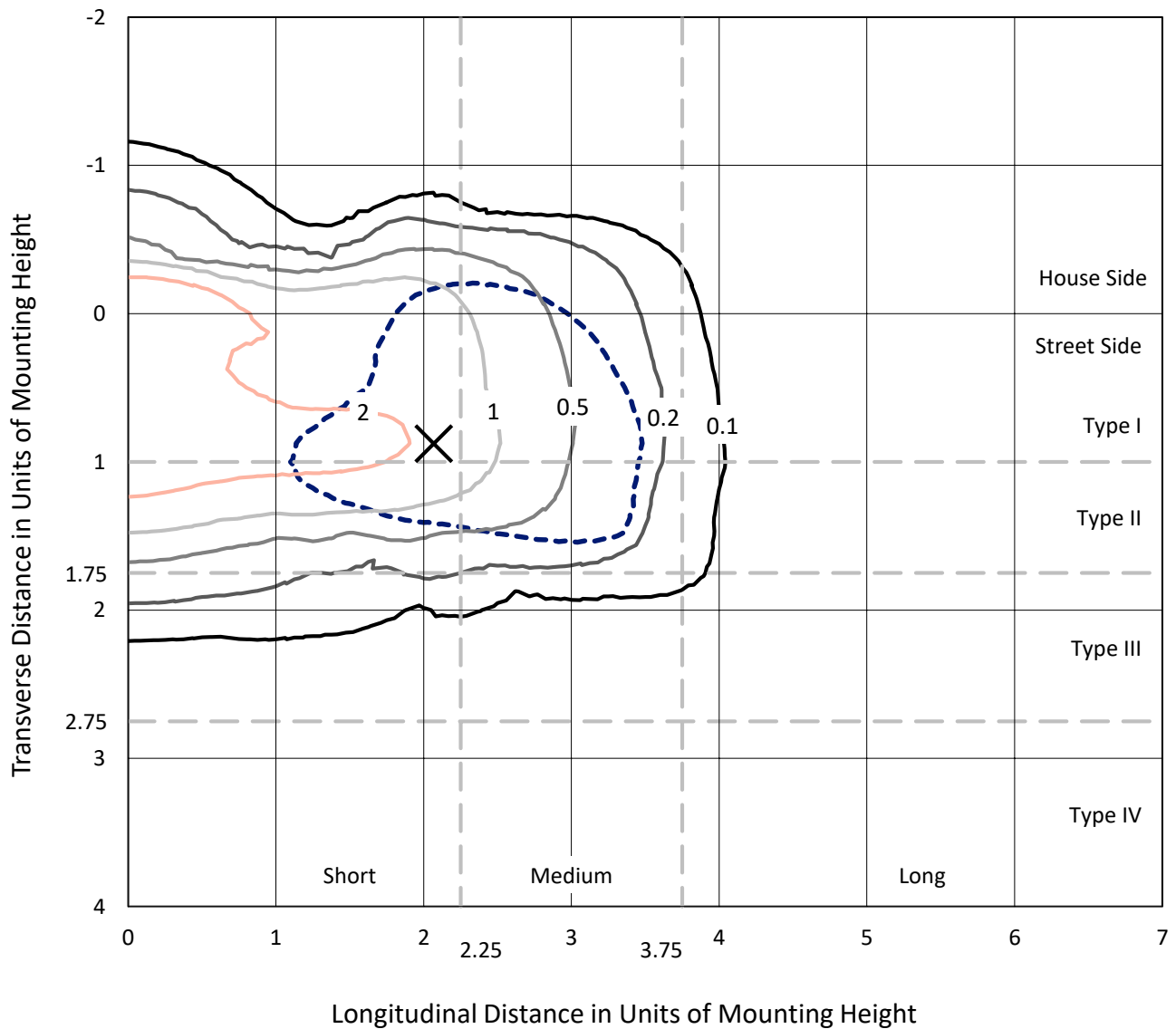
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226769
 CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

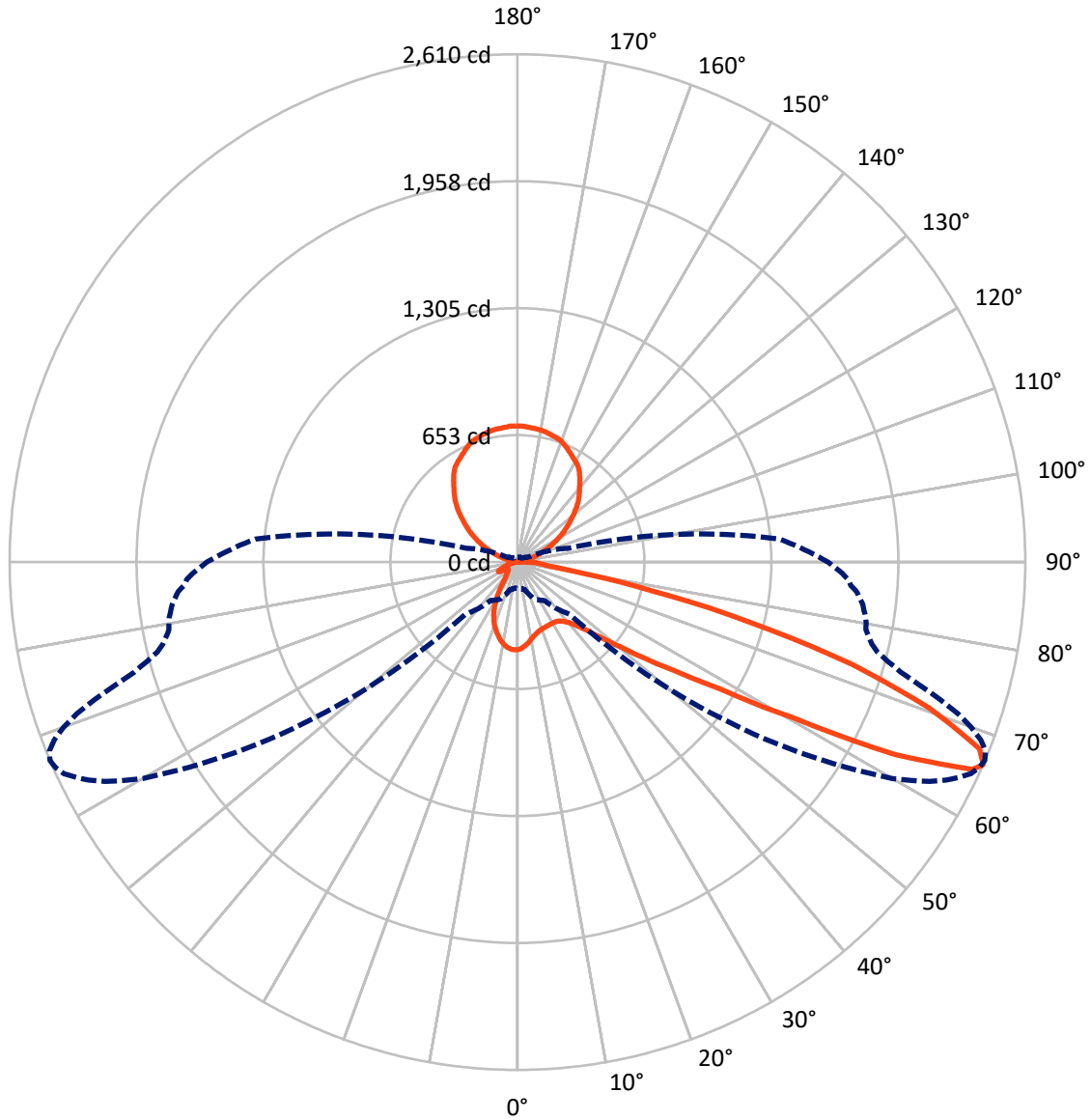
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P226769
CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P226769

CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

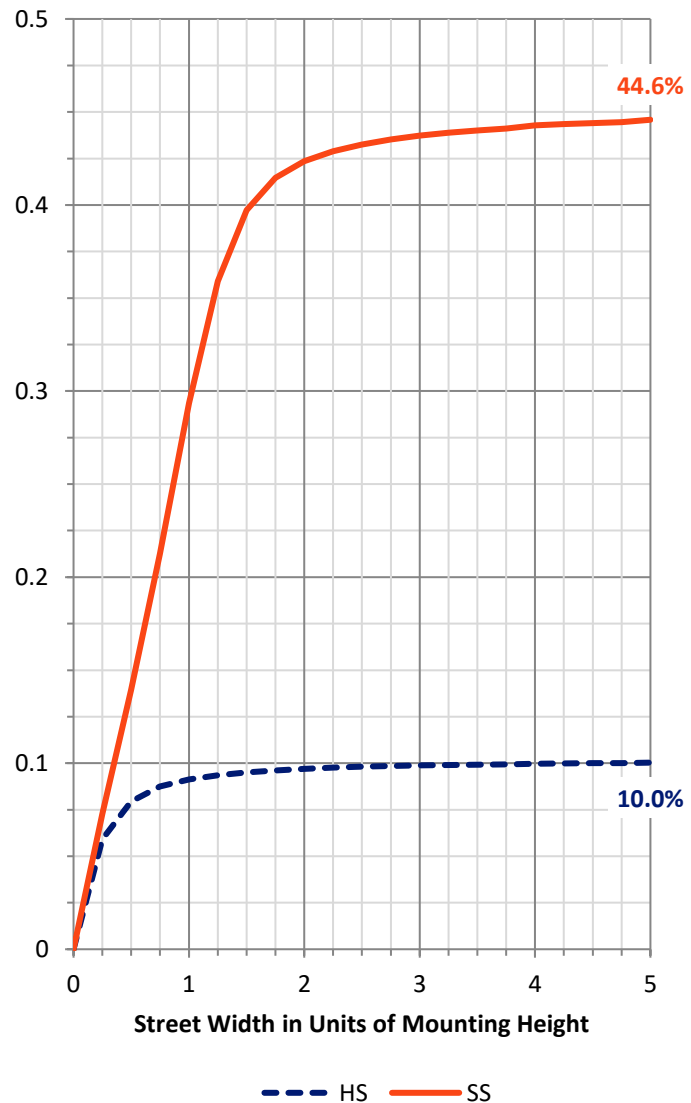
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	395.1	867.7	1262.8
	% Fixture	10.2	22.4	32.6
Street Side	Lumens	1742.2	868.2	2610.4
	% Fixture	45.0	22.4	67.4
Total	Lumens	2137.3	1735.9	3873.2
	% Fixture	55.2	44.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	1.0
10°-20°	92.8	2.4
20°-30°	127.3	3.3
30°-40°	181.9	4.7
40°-50°	294.9	7.6
50°-60°	467.3	12.1
60°-70°	592.1	15.3
70°-80°	294.3	7.6
80°-90°	47.6	1.2
90°-100°	10.0	0.3
100°-110°	57.4	1.5
110°-120°	166.1	4.3
120°-130°	273.2	7.1
130°-140°	336.8	8.7
140°-150°	344.6	8.9
150°-160°	290.3	7.5
160°-170°	191.2	4.9
170°-180°	66.3	1.7
0°-90°	2137.3	55.2
0°-180°	3873.2	100.0



REPORT NUMBER: P226769

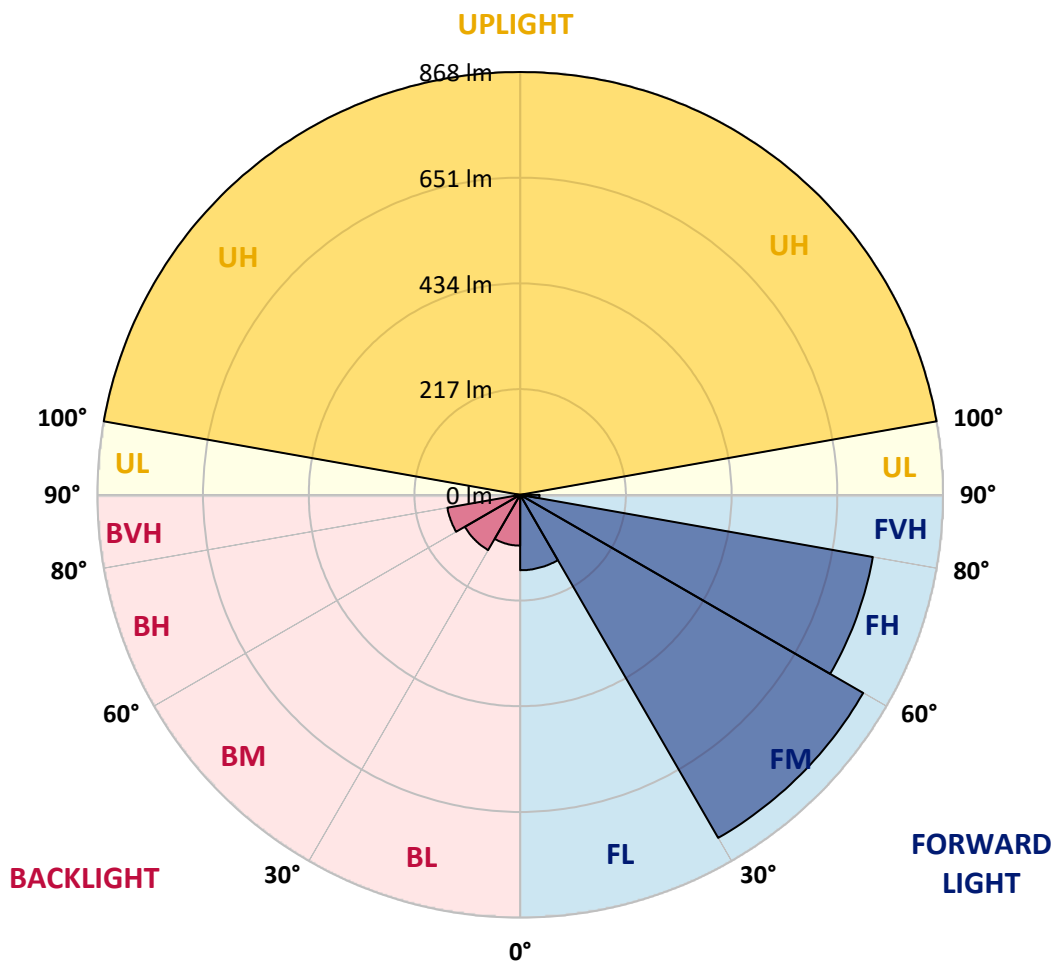
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.8	4.0			
FM (30°-60°)	813.0	21.0			
FH (60°-80°)	734.8	19.0			G1/1800
FVH (80°-90°)	39.6	1.0			G1/100
BL (0°-30°)	104.3	2.7	B0/110		
BM (30°-60°)	131.1	3.4	B0/220		
BH (60°-80°)	151.6	3.9	B1/500		G1/500
BVH (80°-90°)	8.0	0.2			G0/10
UL (90°-100°)	10.0	0.3		U2/50	
UH (100°-180°)	867.7	22.4		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





REPORT NUMBER: P226769

CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	418.0	419.0	424.5	427.4	431.5	432.8	437.6	439.6	441.2	440.8	440.8
5°	380.5	383.4	385.9	391.7	397.8	405.2	414.5	421.6	422.9	424.5	425.4
7.5°	351.9	353.8	358.3	362.5	370.2	380.5	393.6	402.6	404.6	405.2	407.4
10°	331.7	333.0	336.8	342.3	351.3	361.2	375.0	384.3	387.2	388.5	390.4
12.5°	315.9	317.9	321.4	327.2	336.8	347.1	361.5	370.8	372.8	374.4	377.3
15°	306.0	307.3	310.5	316.9	325.6	335.8	350.0	361.2	362.5	364.1	366.7
17.5°	304.1	305.0	306.9	311.8	318.5	328.5	342.9	352.2	354.5	356.7	359.3
20°	311.8	312.4	313.0	313.7	317.5	324.0	338.1	348.0	350.0	351.9	355.1
22.5°	328.5	329.4	327.8	325.6	322.7	324.0	335.8	346.1	347.4	349.3	351.9
25°	357.4	356.4	351.6	348.0	337.8	329.4	336.5	345.2	346.8	348.7	351.6
27.5°	391.4	390.1	387.2	377.6	360.6	343.6	340.3	346.8	347.7	349.3	351.9
30°	428.0	428.3	425.7	415.2	393.3	364.7	349.0	350.6	351.3	352.5	354.1
32.5°	461.1	465.9	465.6	464.9	433.8	393.3	365.7	359.3	358.3	359.3	359.9
35°	499.3	500.2	509.2	513.7	488.4	435.1	390.1	376.0	372.1	372.4	371.8
37.5°	540.4	541.7	557.1	564.8	545.2	482.6	422.5	400.7	397.2	393.6	391.1
40°	600.1	605.2	613.3	621.9	612.3	546.5	465.2	435.7	426.7	426.1	420.9
42.5°	689.3	687.7	683.9	691.0	679.4	618.1	516.9	485.1	478.4	469.4	462.3
45°	777.0	780.5	763.8	767.0	767.7	700.9	591.7	547.1	543.6	533.0	525.3
47.5°	836.1	832.2	809.8	826.1	866.3	797.6	678.4	631.6	624.2	618.7	613.9
50°	839.3	836.1	821.6	850.5	936.3	969.3	799.2	744.6	734.0	724.3	721.5
52.5°	760.9	756.5	761.3	820.0	961.6	1113.2	969.6	884.9	876.2	868.2	857.0
55°	621.3	626.4	649.2	733.7	922.8	1215.3	1305.2	1101.6	1064.4	1064.0	1036.4
57.5°	464.0	458.8	475.8	555.1	824.5	1251.6	1613.4	1563.0	1479.8	1423.6	1355.9
60°	313.0	314.3	330.1	370.8	573.8	1212.1	1819.9	1995.5	1966.3	1954.4	1936.1
62.5°	217.0	219.0	233.4	271.6	335.5	975.1	1880.2	2237.9	2290.2	2333.6	2323.0
65°	151.9	152.2	166.6	225.7	251.4	500.9	1747.0	2270.0	2348.0	2422.5	2489.3
66°	133.9	134.2	146.1	210.0	241.1	377.9	1631.4	2225.4	2314.3	2401.0	2470.0
67.5°	114.6	116.6	125.9	178.5	231.2	291.5	1347.6	2092.1	2185.2	2280.6	2371.8
70°	78.7	79.3	87.7	144.8	216.4	255.9	768.0	1633.3	1762.1	1929.7	2026.6
72.5°	56.2	55.5	56.5	89.6	222.2	254.3	403.6	1075.0	1255.1	1402.1	1507.1
75°	50.1	48.5	44.3	55.5	162.1	277.7	270.3	632.8	769.9	903.8	1011.4
77.5°	44.6	42.1	39.8	42.7	80.3	261.7	242.7	362.5	432.5	532.3	615.2
80°	34.0	32.4	33.7	36.9	48.2	240.8	241.1	241.1	260.1	292.8	325.6
82.5°	22.5	20.5	23.4	30.5	36.3	181.4	249.2	212.9	209.3	208.1	210.3
85°	14.1	12.2	16.4	22.8	27.9	94.7	255.6	224.8	208.4	192.6	176.9
87.5°	5.1	5.8	8.3	13.2	18.3	41.1	224.1	198.1	186.9	167.3	149.0
90°	6.3	6.0	8.6	11.9	12.2	14.7	41.4	62.9	40.9	24.8	21.8
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.5	7.6	7.7	7.8
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.4
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.6
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.6
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.4
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.8
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.6
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.4
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.2
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.2
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.2
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.6
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.8
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.2
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.6
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.6
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	531.8
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	560.8
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.4
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.4
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.2
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	662.8
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.2
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	682.8
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.4
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.4
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226769

CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	441.2	442.8	443.4	442.8	443.1	445.0	444.4	445.3	445.3	446.0	446.0
5°	426.7	428.0	430.6	430.2	432.8	433.8	434.7	436.0	437.6	438.6	440.5
7.5°	409.7	412.3	414.5	415.8	417.4	420.6	421.6	424.5	427.0	429.6	431.5
10°	393.3	396.8	399.4	400.4	403.9	405.5	409.1	411.3	414.5	417.7	420.6
12.5°	379.5	382.7	384.0	387.2	390.4	393.6	395.2	399.4	402.6	406.8	410.7
15°	369.2	372.4	375.0	377.3	380.5	383.7	386.3	390.4	394.3	398.5	402.0
17.5°	362.8	364.7	368.0	369.9	373.7	377.6	380.5	385.3	389.5	393.0	397.8
20°	358.0	360.2	363.1	366.0	369.6	374.4	376.9	382.1	386.6	390.7	395.2
22.5°	355.4	357.7	360.6	363.5	367.3	371.2	375.3	379.8	384.6	389.1	393.6
25°	354.5	356.4	359.0	361.9	366.0	370.2	373.7	378.9	383.0	387.9	393.3
27.5°	354.8	356.1	359.0	361.5	365.7	369.6	373.1	378.2	383.0	387.5	393.0
30°	356.1	357.0	359.9	362.2	365.7	369.6	372.8	378.2	382.4	387.2	393.0
32.5°	360.6	361.9	363.1	364.7	368.0	370.8	374.7	379.5	383.4	388.2	393.0
35°	371.2	370.2	371.2	371.8	374.1	376.9	379.8	384.0	387.5	391.7	396.8
37.5°	387.9	385.9	386.6	386.3	386.3	388.2	391.1	394.0	396.8	401.0	406.2
40°	418.7	413.9	412.6	409.1	408.1	409.7	411.6	411.9	415.5	420.9	423.2
42.5°	458.5	452.1	453.0	447.3	445.7	443.7	446.3	444.7	446.9	450.5	455.3
45°	521.4	515.3	508.9	499.6	501.5	494.5	492.5	493.2	492.9	494.1	499.9
47.5°	596.6	588.5	584.4	580.8	574.1	569.9	564.5	556.4	558.4	560.9	566.1
50°	706.4	703.8	695.8	684.2	682.6	676.5	674.9	667.8	665.3	664.9	664.6
52.5°	853.1	836.4	833.2	822.3	813.9	808.1	806.2	796.3	786.3	792.1	791.5
55°	1031.9	1018.1	1000.5	990.8	984.1	970.3	966.8	954.2	948.5	945.2	937.2
57.5°	1332.5	1284.0	1247.7	1229.7	1204.4	1178.7	1169.7	1144.0	1124.1	1110.0	1110.9
60°	1856.5	1770.1	1668.3	1622.7	1517.1	1501.7	1429.1	1411.4	1367.8	1338.9	1322.2
62.5°	2315.6	2292.2	2243.4	2176.9	2070.9	1948.9	1894.0	1784.9	1699.5	1662.2	1610.5
65°	2534.9	2568.0	2581.4	2568.9	2526.5	2452.1	2386.6	2280.0	2136.8	2055.8	1955.4
66°	2523.7	2572.8	2597.5	2610.3	2594.9	2550.9	2482.2	2394.6	2283.8	2160.5	2047.8
67.5°	2441.5	2489.3	2523.7	2562.8	2562.8	2549.0	2521.1	2462.7	2384.3	2276.7	2175.6
70°	2105.6	2170.5	2231.2	2243.0	2276.4	2266.2	2288.3	2251.1	2232.4	2187.5	2133.2
72.5°	1640.4	1694.6	1746.7	1798.7	1790.0	1778.8	1776.5	1784.2	1746.3	1759.8	1745.7
75°	1091.0	1184.4	1237.7	1232.6	1236.1	1239.0	1215.3	1162.3	1203.4	1151.4	1168.7
77.5°	663.0	706.4	720.8	704.8	683.9	656.9	613.6	588.2	551.9	554.8	530.7
80°	347.7	353.2	341.6	309.2	291.5	275.5	226.0	203.9	183.3	175.6	158.3
82.5°	199.4	186.2	172.1	161.2	140.3	126.2	106.9	94.7	81.6	70.0	65.8
85°	161.5	143.8	130.7	118.5	104.3	91.8	75.8	63.3	53.6	46.6	45.0
87.5°	133.2	121.0	107.6	96.0	82.2	69.4	53.6	41.7	33.1	26.6	24.7
90°	20.7	25.1	20.6	15.4	18.6	14.1	11.9	12.2	11.6	11.6	11.9
92.5°	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1
95°	7.9	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1
97.5°	10.2	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1
100°	26.3	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3
102.5°	47.3	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5
105°	70.2	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5
107.5°	94.1	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4



REPORT NUMBER: P226769

CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	120.9	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2
112.5°	149.8	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1
115°	181.7	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3
117.5°	214.6	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5
120°	249.6	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5
122.5°	282.6	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5
125°	314.8	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5
127.5°	345.9	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	380.6	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	415.5	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2
135°	447.5	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1
137.5°	474.8	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9
140°	501.8	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8
142.5°	532.4	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	561.4	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1
147.5°	584.5	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9
150°	599.7	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7
152.5°	613.7	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6
155°	630.5	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5
157.5°	647.6	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8
160°	663.4	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3
162.5°	670.6	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1
165°	676.5	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7
167.5°	683.4	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6
170°	688.7	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5
172.5°	691.7	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8
175°	694.5	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9
177.5°	698.5	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P226769

CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	446.9	446.9	447.6	448.2	448.5	448.5	448.5	449.2	449.5	448.5	449.5
5°	441.5	443.1	444.4	445.3	445.7	446.6	447.6	448.2	449.2	449.2	449.8
7.5°	434.1	437.0	438.6	440.2	441.8	443.4	445.3	446.6	447.3	448.5	449.5
10°	424.8	428.3	431.5	434.1	436.3	439.6	442.1	444.0	446.9	447.3	449.5
12.5°	414.8	420.0	422.5	427.4	430.6	435.4	437.9	440.8	444.0	445.7	448.2
15°	407.8	412.3	417.1	421.6	426.7	432.5	435.7	439.6	444.0	447.6	450.8
17.5°	402.3	408.4	413.9	419.6	426.1	432.2	437.0	441.2	446.9	448.9	452.1
20°	400.7	407.4	412.9	419.0	425.7	433.8	439.6	444.0	449.8	453.0	455.9
22.5°	400.1	406.5	412.9	420.3	427.7	436.0	442.1	447.9	453.7	456.6	458.8
25°	399.4	406.2	413.2	421.6	429.6	438.3	445.3	450.8	456.2	459.1	461.1
27.5°	399.4	406.5	414.2	422.5	431.2	440.8	447.6	452.7	457.5	460.1	460.7
30°	399.1	406.5	413.9	423.2	432.5	442.4	449.8	454.6	458.8	460.4	459.8
32.5°	399.7	407.4	415.5	424.8	434.4	444.0	451.8	457.2	459.5	459.1	458.8
35°	402.9	410.0	419.3	428.6	438.6	447.6	455.0	458.8	460.7	460.1	458.5
37.5°	411.6	418.7	428.0	438.3	446.0	456.2	463.0	465.9	466.2	464.3	460.4
40°	429.6	436.7	445.0	456.2	465.6	472.6	479.0	482.3	480.3	476.8	472.6
42.5°	458.2	467.2	477.1	486.1	497.0	506.7	508.3	510.2	507.0	500.2	495.1
45°	504.1	509.5	522.4	529.1	543.3	548.1	551.6	552.6	545.5	540.0	531.1
47.5°	570.2	580.8	589.8	596.2	606.5	612.9	620.0	616.8	611.3	602.0	590.1
50°	674.3	681.0	692.6	704.1	715.0	719.5	719.5	716.3	712.8	694.8	680.4
52.5°	802.0	802.7	819.4	833.2	842.5	835.8	843.8	835.8	833.5	821.0	809.1
55°	950.1	944.0	964.2	976.4	984.7	992.8	991.2	990.2	981.8	967.7	953.3
57.5°	1090.7	1108.4	1118.0	1136.0	1140.1	1145.6	1143.4	1140.1	1135.3	1127.3	1120.9
60°	1293.6	1305.5	1314.2	1317.7	1329.6	1331.2	1339.2	1326.0	1329.3	1319.9	1299.7
62.5°	1569.7	1556.9	1563.6	1563.6	1560.1	1547.6	1554.3	1559.5	1550.8	1543.1	1539.9
65°	1878.9	1837.5	1797.7	1791.0	1772.7	1768.5	1763.3	1750.5	1745.0	1731.6	1720.6
66°	1971.4	1907.2	1869.6	1846.5	1824.4	1819.5	1812.5	1799.0	1788.1	1769.1	1750.8
67.5°	2075.1	1992.3	1935.8	1903.0	1875.7	1857.7	1843.6	1824.4	1807.0	1778.8	1749.5
70°	2068.4	2000.0	1931.9	1882.1	1841.0	1804.1	1782.3	1740.9	1705.6	1665.1	1631.7
72.5°	1738.0	1725.8	1686.3	1658.4	1607.9	1588.4	1530.6	1504.2	1455.4	1403.1	1387.0
75°	1208.2	1160.4	1140.1	1128.9	1106.7	1045.7	1005.9	1014.6	957.4	906.4	877.2
77.5°	528.2	537.8	481.9	456.9	437.6	404.6	373.7	352.5	340.3	332.3	296.0
80°	146.1	127.5	125.9	116.9	114.9	102.4	104.0	95.0	88.9	87.7	84.8
82.5°	63.9	62.6	60.7	59.7	58.8	57.5	55.9	55.5	53.6	52.0	52.3
85°	42.4	42.1	41.1	40.1	38.5	36.3	34.7	33.4	33.7	32.1	31.8
87.5°	24.7	24.1	23.8	22.5	22.2	20.2	20.5	18.9	18.6	18.3	17.3
90°	12.5	12.7	13.4	12.9	11.4	14.1	12.9	12.1	12.2	11.1	10.9
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0
100°	23.0	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0
102.5°	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0
105°	65.0	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0
107.5°	90.0	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0



REPORT NUMBER: P226769
 CATALOG NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	119.0	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	0°
112.5°	149.0	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	2.5°
115°	179.0	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	5°
117.5°	210.0	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	7.5°
120°	245.0	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	10°
122.5°	278.0	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	12.5°
125°	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	17.5°
130°	381.0	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.0	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	25°
137.5°	476.0	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	27.5°
140°	504.0	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	30°
142.5°	533.0	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	32.5°
145°	561.0	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	35°
147.5°	586.0	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	37.5°
150°	603.0	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	40°
152.5°	618.0	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	42.5°
155°	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	661.0	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	50°
162.5°	670.0	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	52.5°
165°	680.0	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	60°
172.5°	694.0	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	62.5°
175°	696.0	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	65°
177.5°	701.0	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	66°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P226769
 NUMBER: ISW-AF-350-LED-E1-SL2-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	110°	116.2
450.5	451.1	451.4	451.1	451.8	451.4	451.8	451.4	449.8	449.5	449.2	112.5°	147.0
451.1	452.4	452.7	453.0	452.4	453.0	451.8	446.6	440.8	434.4	429.3	115°	177.2
451.8	453.4	454.3	454.3	454.6	454.0	449.2	437.9	424.5	411.0	400.7	117.5°	208.2
451.4	453.7	454.6	455.0	455.0	453.7	442.1	424.1	403.6	383.0	362.2	120°	243.0
450.5	452.4	454.0	454.0	454.3	449.8	431.8	406.2	376.9	346.1	318.2	122.5°	276.2
452.4	454.3	454.3	454.3	454.0	446.3	420.9	383.7	344.5	302.8	261.4	125°	310.0
455.3	456.2	455.6	455.6	454.3	442.8	408.7	361.5	310.2	254.9	197.1	127.5°	345.4
457.9	458.5	458.2	456.6	455.0	438.9	396.2	338.1	269.1	197.1	139.7	130°	379.2
460.4	461.1	459.5	456.9	454.6	433.8	381.1	308.2	222.5	134.9	92.5	132.5°	414.2
460.7	461.4	458.5	455.0	451.8	426.1	362.8	276.4	171.5	87.3	72.2	135°	450.2
460.4	459.8	455.0	450.5	446.9	416.8	342.6	237.0	114.3	65.8	62.9	137.5°	481.2
458.2	455.3	451.4	446.3	441.2	406.5	322.4	193.0	72.2	57.2	57.2	140°	509.4
455.0	452.1	447.3	440.5	434.7	396.5	299.2	148.0	57.8	52.7	53.3	142.5°	534.4
453.7	450.5	443.4	436.3	429.0	387.5	274.8	99.5	52.0	49.8	50.1	145°	558.4
456.2	450.8	443.7	435.7	427.0	379.8	249.5	69.4	49.1	46.6	47.2	147.5°	583.4
464.9	459.8	451.4	441.2	431.8	375.3	222.5	57.5	46.2	44.0	44.0	150°	606.8
485.8	479.0	467.8	455.6	444.4	378.2	198.4	52.3	44.0	41.7	41.7	152.5°	624.0
519.5	511.5	498.3	484.5	469.7	392.4	171.1	50.4	42.4	39.2	38.5	155°	638.6
577.3	566.7	549.4	533.0	515.3	416.8	143.5	49.1	40.5	37.6	36.3	157.5°	651.0
668.2	652.4	631.9	610.4	588.9	461.4	121.7	47.8	39.2	36.3	35.0	160°	661.2
785.0	774.4	748.7	720.5	694.8	550.3	109.2	46.9	38.2	34.7	33.7	162.5°	669.2
934.0	916.7	896.4	871.1	840.6	665.6	107.9	46.6	37.2	33.4	32.7	165°	678.8
1091.3	1084.6	1050.2	1034.5	1001.4	819.1	131.3	47.2	36.6	32.4	31.5	167.5°	689.2
1270.8	1273.4	1241.3	1223.9	1196.6	1013.6	209.0	49.1	36.6	31.5	30.5	170°	697.0
1505.5	1509.7	1471.8	1451.3	1428.1	1231.6	328.5	52.3	37.6	30.5	29.5	172.5°	697.0
1697.8	1675.4	1651.0	1615.0	1585.8	1353.3	316.3	58.1	38.9	29.5	28.6	175°	695.0
1717.8	1701.7	1670.9	1632.0	1596.4	1354.0	276.1	60.0	39.2	29.2	28.3	177.5°	698.8
1715.2	1686.6	1651.6	1618.9	1583.9	1319.3	213.5	62.6	40.1	28.6	27.6	180°	700.0
1596.4	1556.3	1522.2	1476.9	1440.3	1180.6	131.3	62.3	38.9	26.6	26.0		
1316.4	1295.9	1255.4	1219.1	1180.9	955.5	89.9	55.5	34.4	24.1	24.4		
851.5	828.1	787.0	766.4	744.9	611.3	70.0	45.3	29.2	21.5	22.5		
284.2	274.8	259.8	268.1	255.6	238.2	51.4	34.4	23.4	18.6	19.9		
85.1	83.2	86.0	80.9	85.7	72.6	33.7	24.1	18.0	16.1	17.7		
50.4	49.8	49.8	49.8	48.5	45.3	22.2	16.7	13.8	13.5	14.8		
30.8	30.2	30.5	30.2	30.8	27.6	15.1	11.6	10.3	10.0	11.9		
17.7	17.7	18.0	17.3	17.7	17.0	10.6	7.4	6.7	6.4	8.7		
11.2	11.2	10.2	9.9	10.2	11.5	11.9	11.2	8.9	8.6	10.9		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0		
19.0	19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0		
38.8	38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0		
61.0	61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0		
86.8	86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0		

'226769
 ISW-AF-350-LED-E1-SL2-7030-ULG

REPORT NUMBER: P226769
 CATALOG NUMBER: ISW-AF-3!

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
116.4	116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	0°	449.8	449.8
147.0	147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	2.5°	446.6	444.4
177.4	177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	5°	421.3	415.2
208.4	208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	7.5°	384.6	377.6
243.0	243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	10°	342.9	332.3
276.4	276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	12.5°	289.6	268.7
310.0	310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	15°	228.0	200.0
345.8	346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	17.5°	157.0	134.5
379.4	379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	20°	110.1	101.8
414.4	414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	22.5°	85.1	85.4
450.4	450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	25°	70.6	73.8
481.4	481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	27.5°	62.3	65.5
509.8	510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	30°	57.2	60.0
534.8	535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	32.5°	53.6	54.9
558.8	559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	35°	49.4	50.1
583.8	584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	37.5°	45.9	45.9
607.6	608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	40°	42.7	42.4
625.0	626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	42.5°	39.8	39.5
639.2	639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	45°	36.9	37.2
652.0	653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	47.5°	35.3	35.6
662.4	663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	50°	33.7	34.0
670.4	671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	52.5°	32.4	32.4
679.6	680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	55°	31.1	30.8
690.4	691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	57.5°	30.2	29.5
698.0	699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	60°	29.2	28.6
698.0	699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	62.5°	28.6	27.6
696.0	697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	65°	27.9	27.3
699.6	700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	66°	27.6	27.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	27.3	26.6
										70°	26.0	25.4
										72.5°	24.1	23.8
										75°	22.2	21.5
										77.5°	19.6	19.3
										80°	16.7	16.4
										82.5°	14.1	13.5
										85°	11.2	10.6
										87.5°	7.7	7.1
										90°	9.9	9.2
										92.5°	6.0	5.0
										95°	7.0	6.0
										97.5°	8.0	8.0
										100°	10.0	9.0
										102.5°	18.0	13.0
										105°	36.0	27.0
										107.5°	58.0	49.0



REPORT NUMBER: P226769

CATALOG NUMBER: ISW-AF-350-LED-E1-

50-LED-E1-SL2-7030-ULG

tinued):

175°	180°
449.8	449.8
442.4	445.3
413.2	412.3
371.8	372.1
321.7	322.4
256.9	253.0
184.0	185.6
128.1	127.8
102.7	103.4
88.0	88.0
78.3	78.3
69.0	69.4
62.6	63.3
56.8	57.2
51.1	51.4
46.2	46.2
43.0	43.3
40.8	40.8
38.5	38.5
36.6	37.2
34.7	35.0
32.7	33.1
30.8	30.8
29.2	29.2
27.9	27.6
27.0	26.3
26.0	25.7
25.7	25.4
25.4	25.0
24.7	24.4
23.8	23.4
21.8	21.2
19.9	19.3
18.3	17.3
15.4	14.8
11.2	10.6
6.7	6.7
6.6	6.6
4.0	4.0
5.0	5.0
7.0	7.0
8.0	8.0
11.0	11.0
22.0	21.0
42.0	41.0

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	87.0	74.0	68.0
112.5°	121.0	106.0	99.0
115°	159.0	147.0	139.0
117.5°	197.0	189.0	184.0
120°	233.0	226.0	223.0
122.5°	267.0	261.0	260.0
125°	299.0	296.0	294.0
127.5°	333.0	329.0	329.0
130°	366.0	362.0	361.0
132.5°	401.0	393.0	394.0
135°	432.0	426.0	426.0
137.5°	460.0	459.0	457.0
140°	489.0	487.0	485.0
142.5°	518.0	517.0	515.0
145°	547.0	544.0	546.0
147.5°	574.0	571.0	572.0
150°	593.0	593.0	592.0
152.5°	609.0	608.0	608.0
155°	627.0	625.0	625.0
157.5°	644.0	643.0	643.0
160°	656.0	659.0	660.0
162.5°	665.0	669.0	669.0
165°	676.0	676.0	678.0
167.5°	686.0	684.0	687.0
170°	692.0	692.0	695.0
172.5°	693.0	695.0	697.0
175°	695.0	697.0	698.0
177.5°	699.0	700.0	705.0
180°	700.0	700.0	700.0

-SL2-7030-ULG

<u>180°</u>
66.0
99.0
140.0
184.0
225.0
263.0
298.0
330.0
363.0
396.0
429.0
460.0
488.0
518.0
550.0
575.0
595.0
611.0
629.0
646.0
663.0
673.0
681.0
690.0
698.0
699.0
700.0
707.0
700.0

(END OF REPORT)