

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: P227285

Luminaire Tested: **ISW-AF-350-LED-E1-SLR-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-SLR-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH  
UPLIGHT GLOW  
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

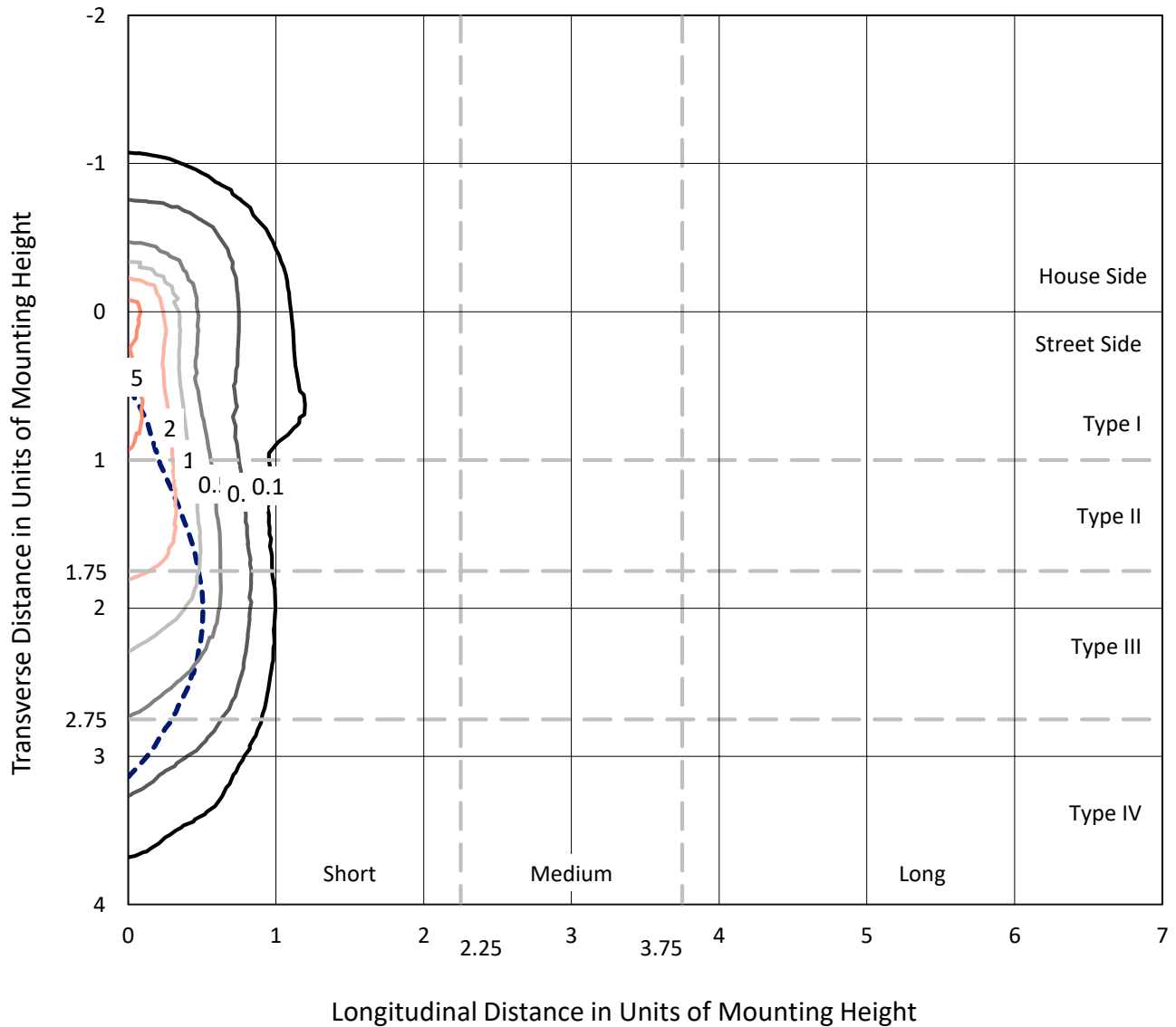
Lumens per Lamp: N/A  
Luminaire Lumens: 3980 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 36.79  
Input Voltage (V): 120  
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: P227285  
 CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-ULG

### Iso-Footcandle Lines of Horizontal Illumination

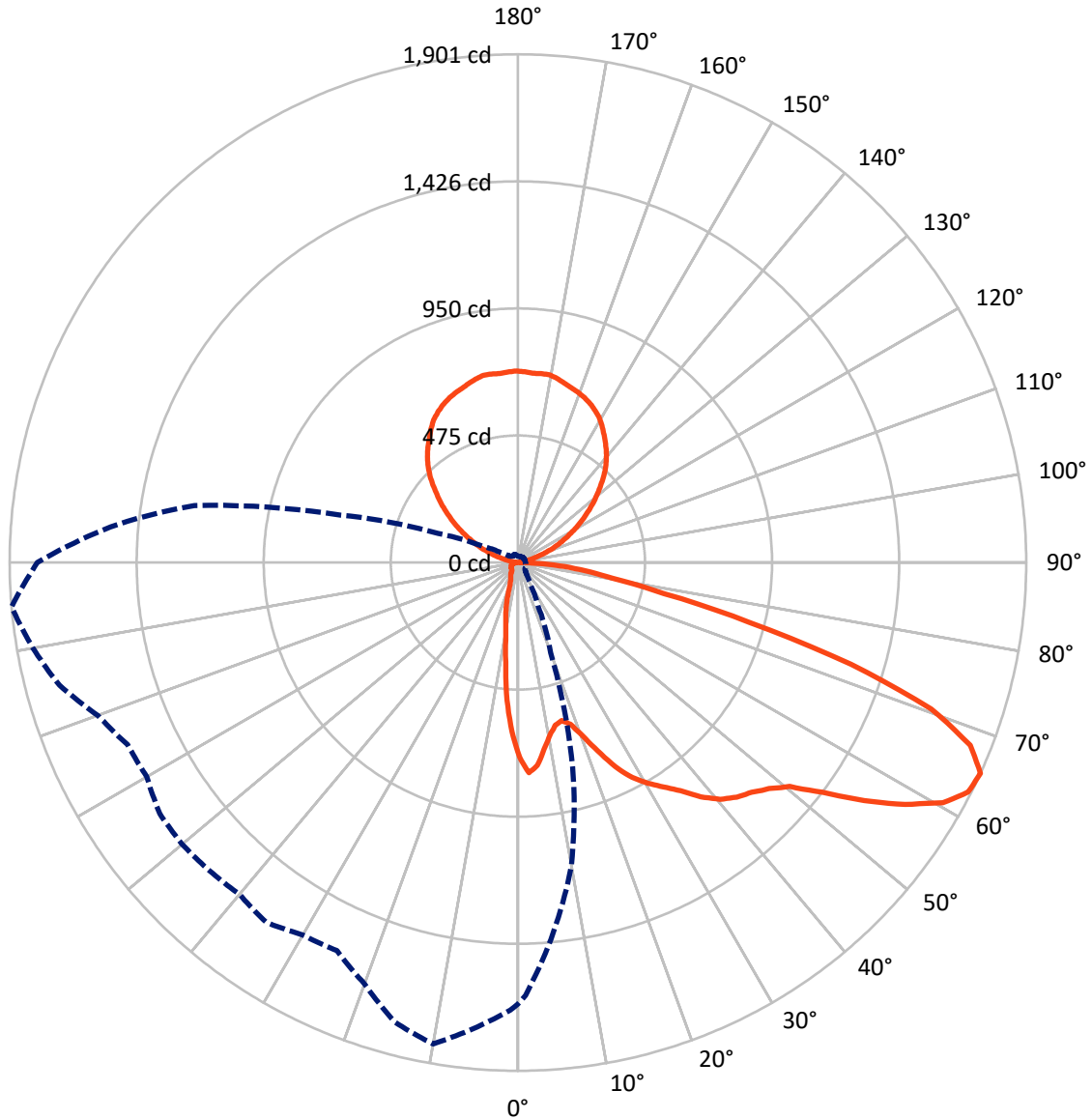
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P227285  
CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P227285

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

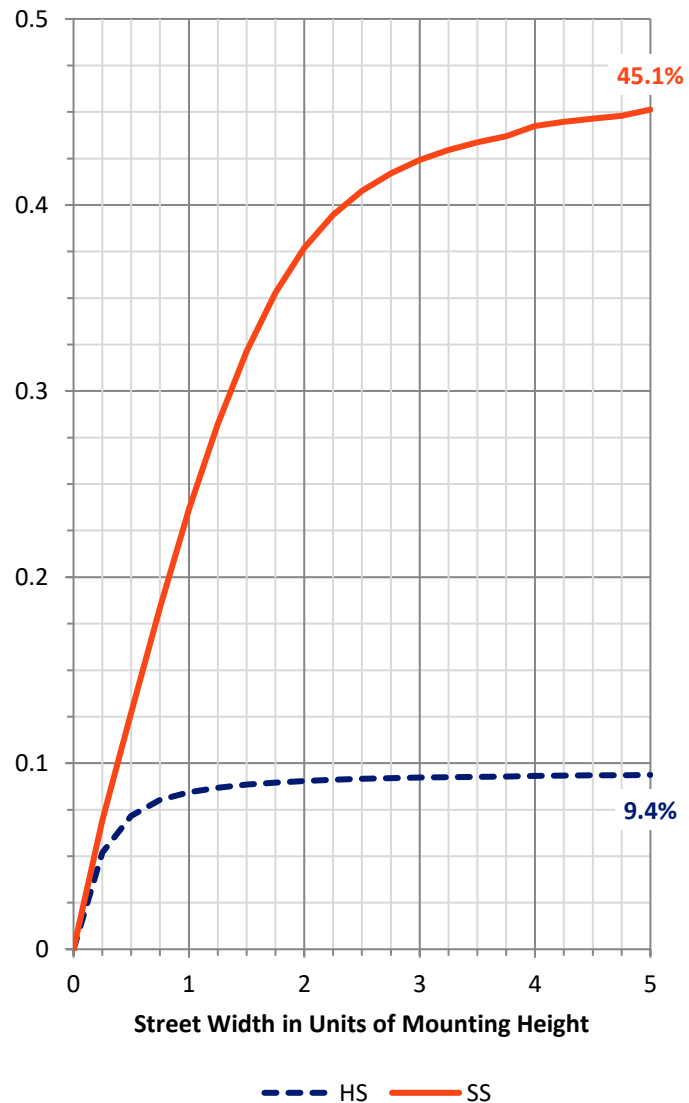
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	378.6	887.5	1266.1
	% Fixture	9.5	22.3	31.8
<b>Street Side</b>	Lumens	1826.4	887.6	2713.9
	% Fixture	45.9	22.3	68.2
<b>Total</b>	Lumens	2204.9	1775.1	3980.0
	% Fixture	55.4	44.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	1.4
10°-20°	103.8	2.6
20°-30°	148.0	3.7
30°-40°	214.7	5.4
40°-50°	307.2	7.7
50°-60°	471.6	11.8
60°-70°	545.9	13.7
70°-80°	278.5	7.0
80°-90°	81.4	2.0
90°-100°	9.6	0.2
100°-110°	58.7	1.5
110°-120°	169.9	4.3
120°-130°	279.4	7.0
130°-140°	344.6	8.7
140°-150°	352.5	8.9
150°-160°	297.0	7.5
160°-170°	195.5	4.9
170°-180°	67.8	1.7
0°-90°	2204.9	55.4
0°-180°	3980.0	100.0



REPORT NUMBER: P227285

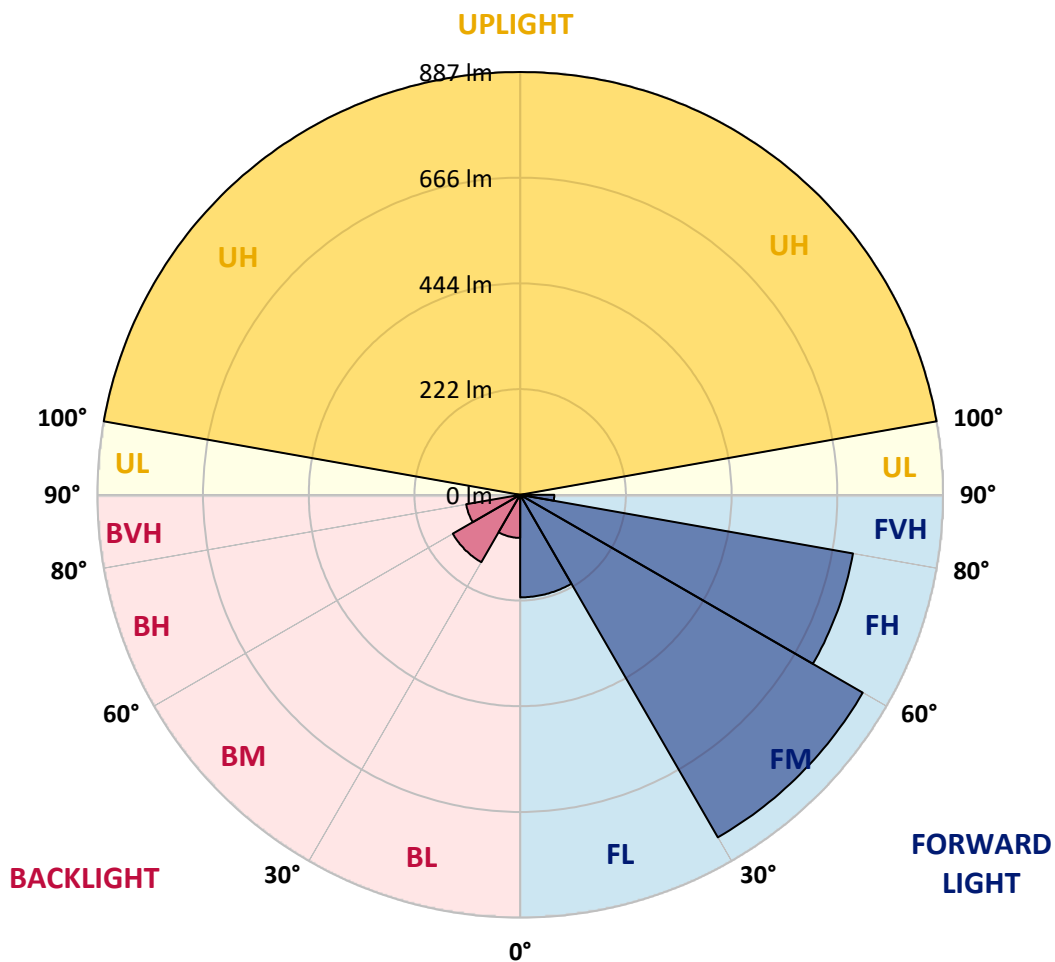
CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	215.2	5.4			
FM	(30°-60°)	830.2	20.9			
FH	(60°-80°)	709.3	17.8			G1/1800
FVH	(80°-90°)	71.6	1.8			G1/100
BL	(0°-30°)	90.5	2.3	B0/110		
BM	(30°-60°)	163.2	4.1	B0/220		
BH	(60°-80°)	115.0	2.9	B1/500		G1/500
BVH	(80°-90°)	9.9	0.2			G0/10
UL	(90°-100°)	9.6	0.2		U1/10	
UH	(100°-180°)	887.5	22.3		U4/1000	

**BUG Rating: B1-U5-G1**

Type IV Short





REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	753.7	749.2	743.7	734.1	725.5	713.3	710.3	695.1	685.5	687.7	670.2
5°	707.7	705.1	691.4	669.9	655.8	628.0	612.0	603.8	580.8	577.9	571.6
7.5°	643.1	635.4	613.2	586.5	562.3	542.0	516.3	496.6	479.3	468.5	449.6
10°	587.9	579.7	555.7	523.0	494.1	465.5	444.8	419.1	394.2	375.0	359.8
12.5°	561.2	552.3	524.1	486.3	454.0	418.4	389.1	363.9	350.2	340.5	327.9
15°	571.6	558.6	524.9	479.6	439.6	401.7	370.5	343.5	327.1	312.3	297.5
17.5°	613.5	597.5	558.9	504.4	448.8	399.9	355.4	324.6	298.6	276.3	256.4
20°	685.5	673.6	617.6	541.1	468.8	401.0	342.4	302.0	270.4	242.2	215.5
22.5°	769.7	751.9	696.9	590.9	494.4	407.6	334.2	283.1	245.5	207.8	178.8
25°	857.9	844.2	771.5	657.7	533.8	421.4	327.9	266.3	216.3	174.3	142.4
27.5°	929.1	916.9	845.0	721.8	569.7	433.2	318.6	250.4	192.9	142.4	107.2
30°	987.4	977.0	901.7	774.5	613.5	437.3	305.7	231.8	166.9	115.0	88.7
32.5°	1052.7	1041.2	956.3	811.2	633.2	433.6	290.8	214.4	146.2	101.7	76.0
35°	1124.2	1110.9	1017.0	850.9	649.5	420.6	278.1	201.8	136.2	92.4	67.5
37.5°	1188.1	1179.6	1072.0	890.2	668.0	399.2	266.0	188.0	129.4	85.7	60.9
40°	1237.8	1235.5	1132.8	922.8	682.5	383.5	255.9	177.3	120.9	83.1	58.6
42.5°	1277.8	1277.1	1182.5	952.2	686.2	369.8	248.2	167.7	113.1	76.8	59.7
45°	1316.4	1316.0	1230.7	993.0	688.8	370.5	242.2	161.7	106.5	72.7	56.4
47.5°	1353.2	1358.7	1281.1	1049.6	716.3	383.2	240.0	156.2	101.3	68.2	53.4
50°	1414.6	1409.1	1360.9	1126.5	760.4	407.6	236.3	151.3	96.5	64.1	50.4
52.5°	1531.6	1525.2	1482.2	1229.2	808.6	432.9	231.5	144.6	90.8	59.7	47.1
55°	1674.4	1682.9	1623.1	1354.2	874.2	454.0	226.3	135.7	83.5	54.5	44.9
57.5°	1758.1	1751.1	1682.9	1426.2	914.7	464.7	222.9	125.4	71.9	50.1	42.7
59°	1777.8	1765.9	1672.8	1438.5	925.5	459.6	221.1	115.4	66.0	47.9	41.5
60°	1775.9	1761.5	1656.9	1430.6	928.4	453.3	218.1	109.5	62.7	46.7	41.1
62.5°	1737.8	1715.1	1566.3	1336.4	886.9	421.8	205.8	95.3	58.2	45.2	39.0
65°	1650.9	1619.0	1414.3	1152.5	791.6	359.1	178.0	90.1	59.3	44.5	37.4
67.5°	1501.1	1475.5	1218.8	953.6	631.0	290.1	154.0	87.9	60.9	45.2	35.2
70°	1221.1	1199.2	951.0	714.0	472.5	230.7	139.8	86.7	59.7	43.4	33.3
72.5°	861.3	823.5	632.1	500.0	299.7	185.5	121.3	81.9	58.2	41.9	30.4
75°	524.1	531.1	401.7	364.3	189.1	127.3	95.3	68.9	51.6	37.4	27.4
77.5°	345.7	345.3	296.3	257.1	96.1	79.0	67.5	53.1	40.4	30.8	23.7
80°	234.5	237.0	215.1	175.4	53.4	47.5	44.1	38.6	29.7	23.3	19.6
82.5°	144.3	144.6	166.5	131.3	35.6	30.1	28.2	26.0	21.2	18.2	15.2
85°	50.1	51.1	58.2	92.7	24.1	19.6	19.6	18.2	16.0	12.3	10.0
87.5°	21.5	21.2	25.3	25.3	11.9	10.0	9.3	9.3	8.9	6.6	5.5
90°	6.6	6.2	6.2	7.7	9.0	10.2	10.4	10.7	10.7	9.9	8.7
92.5°	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.9	21.5
102.5°	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	34.3	40.9
105°	21.5	21.7	22.5	25.1	27.6	32.2	36.8	43.0	49.1	56.8	64.4
107.5°	41.9	42.1	43.0	46.5	50.1	54.7	59.3	67.0	74.7	82.3	90.0



REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	67.5	67.9	69.6	72.6	75.7	82.3	89.0	96.7	104.3	110.5	116.6
112.5°	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	141.7	146.3
115°	143.2	143.0	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.9	178.0
117.5°	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	208.2	209.7
120°	230.2	229.8	228.1	229.7	231.2	234.8	238.3	240.4	242.4	245.5	248.6
122.5°	269.0	268.4	266.0	266.5	267.0	270.1	273.1	275.2	277.2	280.3	283.4
125°	304.8	304.0	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.6	317.1
127.5°	337.6	337.4	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.3	347.8
130°	371.3	370.9	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.5	380.5
132.5°	405.1	404.7	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.8	414.3
135°	438.8	438.2	435.8	435.8	435.8	438.8	441.9	443.4	445.0	446.0	447.0
137.5°	470.6	469.9	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.7	478.7
140°	499.2	498.6	496.1	497.2	498.2	499.2	500.2	501.2	502.3	505.3	508.4
142.5°	529.9	529.3	526.8	527.8	528.9	529.4	529.9	531.4	533.0	535.0	537.0
145°	562.6	561.8	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.1	563.6
147.5°	588.2	587.6	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.7	588.2
150°	608.7	608.0	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	624.4	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0
155°	643.4	642.6	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.4	642.4
157.5°	660.8	660.2	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.3	659.8
160°	678.2	677.6	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0
162.5°	688.4	687.6	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.2	678.2
165°	696.6	696.0	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4
167.5°	705.8	705.2	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.3	700.7
170°	714.0	713.4	711.0	709.4	707.9	707.9	707.9	708.4	708.9	707.9	706.9
172.5°	715.0	714.6	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8
175°	716.1	715.7	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.3	705.8
177.5°	723.2	722.8	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.0	711.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1





REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	665.0	660.9	649.5	646.5	650.2	642.8	641.0	639.1	625.3	632.4	624.3
5°	556.0	554.8	531.5	536.3	531.5	523.3	520.1	527.8	514.1	517.1	518.9
7.5°	427.3	422.9	407.2	396.9	390.6	385.0	378.0	366.4	375.3	373.5	387.6
10°	346.8	337.2	327.5	313.0	304.9	297.1	289.0	284.5	274.2	273.0	268.2
12.5°	317.8	304.1	292.0	279.3	270.8	255.2	242.2	234.1	227.4	217.0	209.2
15°	279.3	267.8	251.9	239.6	226.3	212.2	199.6	189.1	184.3	174.7	170.2
17.5°	240.4	222.9	203.7	191.4	172.9	158.4	148.0	141.3	134.3	128.4	123.2
20°	193.6	171.0	150.3	134.6	120.2	106.1	101.3	93.1	90.1	87.9	89.7
22.5°	147.3	123.9	102.4	90.5	82.8	79.0	74.9	73.4	72.3	71.9	72.7
25°	107.9	88.3	77.8	73.4	70.5	68.2	66.8	65.7	65.0	64.5	65.0
27.5°	83.5	73.0	67.9	65.0	62.7	61.2	60.5	59.3	59.0	58.6	59.0
30°	72.3	66.8	63.0	60.0	57.5	54.9	53.8	53.4	53.8	54.1	53.8
32.5°	63.0	59.0	54.9	52.3	50.4	49.0	49.0	48.2	48.2	49.3	49.7
35°	57.1	53.1	50.1	46.7	44.5	43.1	41.9	41.1	41.5	41.5	42.7
37.5°	52.3	49.3	46.7	43.8	41.5	40.1	39.3	38.6	38.2	37.8	37.8
40°	49.0	47.1	44.9	41.9	39.7	38.2	37.4	36.7	36.3	36.0	36.0
42.5°	49.0	45.2	43.8	41.1	38.6	37.1	36.0	35.2	34.5	34.5	34.5
45°	53.8	46.3	43.8	40.8	38.2	36.3	35.2	34.2	33.3	33.3	33.0
47.5°	52.3	52.0	44.5	40.8	38.6	36.3	34.9	33.8	33.0	32.6	32.2
50°	49.7	54.1	49.7	41.9	38.6	36.0	34.5	33.3	32.2	31.9	31.9
52.5°	48.2	50.4	51.6	43.4	39.0	36.0	34.2	33.0	32.2	31.5	31.2
55°	44.5	47.5	49.3	42.7	39.0	35.2	33.3	32.2	31.2	30.8	30.4
57.5°	40.8	43.1	47.5	42.7	37.8	34.9	32.6	31.2	30.4	30.1	29.7
59°	39.7	39.7	42.2	43.8	37.1	34.5	32.2	30.8	30.1	29.7	28.9
60°	38.6	38.6	40.1	44.9	36.7	34.2	31.9	30.4	29.3	29.3	28.9
62.5°	37.1	36.0	36.7	41.9	35.6	33.3	31.2	29.7	28.5	28.5	28.2
65°	35.2	33.8	33.8	34.9	33.3	31.9	30.4	28.9	27.4	27.4	27.8
67.5°	33.3	31.9	31.5	31.5	30.8	30.4	28.9	27.4	26.7	26.7	26.7
70°	30.8	29.7	29.3	28.5	28.5	28.2	27.1	26.0	25.3	25.6	25.3
72.5°	27.8	27.1	26.3	26.3	26.0	25.6	24.4	23.7	23.3	23.7	23.7
75°	24.9	23.7	23.7	23.0	23.0	22.6	21.5	21.2	20.8	21.2	21.5
77.5°	21.2	20.4	20.0	20.0	20.0	20.0	18.5	18.2	18.2	18.9	18.9
80°	17.4	17.1	16.7	16.7	16.7	16.4	15.5	15.2	15.2	15.5	16.0
82.5°	13.4	12.6	12.6	13.0	13.4	13.4	12.3	11.5	11.5	12.3	13.0
85°	8.9	8.9	8.9	9.3	9.3	9.6	8.9	7.8	8.2	8.5	9.6
87.5°	4.8	5.2	4.8	4.5	5.2	4.8	4.8	4.5	4.8	5.2	5.5
90°	8.7	8.7	9.3	9.9	9.6	9.9	8.9	8.3	7.6	7.6	8.9
92.5°	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2	8.2	8.2	8.7
100°	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4	19.4	19.4	21.5
102.5°	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9	38.9	39.9	41.4
105°	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4	62.4	62.4	64.4
107.5°	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0	88.0	89.0	90.5



REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	119.7	118.7	120.2
112.5°	148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	150.4	150.4	151.4
115°	180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	182.1	181.1	182.1
117.5°	212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	213.8	212.8	213.8
120°	250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	248.6	248.6	249.6
122.5°	284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	283.4	282.3	283.4
125°	318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	317.1	317.1	317.1
127.5°	350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	355.0	352.9	353.4
130°	383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	388.7	387.7	388.7
132.5°	417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	424.5	423.5	423.5
135°	450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	461.4	460.3	458.8
137.5°	481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	493.1	492.0	489.5
140°	509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	522.7	520.7	518.1
142.5°	538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	548.3	546.3	545.7
145°	566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	572.9	570.8	572.3
147.5°	590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	598.4	596.4	597.9
150°	608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	624.0	619.9	618.4
152.5°	624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	642.4	637.3	634.7
155°	641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	655.7	652.6	651.6
157.5°	659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	670.0	664.9	664.9
160°	671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	681.3	675.1	675.7
162.5°	680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	689.5	683.3	684.4
165°	687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	697.7	693.6	694.6
167.5°	697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	709.9	703.8	703.8
170°	704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	717.1	712.0	711.0
172.5°	705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	717.1	712.0	711.0
175°	705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	715.0	709.9	711.0
177.5°	710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	718.1	714.0	715.6
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	631.7	625.3	622.1	635.0	633.9	622.8	622.8	630.5	631.0	624.3	632.1
5°	521.1	514.9	520.8	515.6	518.5	518.1	522.6	514.4	517.8	514.9	507.8
7.5°	386.5	399.2	405.8	397.2	408.1	413.6	405.8	413.6	401.3	391.3	401.0
10°	266.0	280.1	277.4	291.1	296.3	299.3	304.9	297.9	289.3	286.7	279.7
12.5°	206.2	203.3	202.1	207.8	211.0	206.2	210.3	205.8	201.4	193.6	193.2
15°	161.3	156.5	153.2	146.9	144.6	145.8	147.6	147.6	138.7	139.1	142.4
17.5°	122.4	121.3	118.7	113.5	110.2	111.3	110.9	109.0	107.9	108.6	112.7
20°	92.0	90.8	92.4	93.8	92.7	93.1	91.7	89.7	89.0	89.7	90.5
22.5°	72.7	74.2	76.0	78.3	78.7	80.5	80.1	80.5	79.0	78.3	76.4
25°	66.4	67.1	66.0	66.4	66.4	68.2	67.9	67.9	66.4	66.0	66.4
27.5°	58.6	58.2	58.2	59.0	59.0	60.0	60.9	60.0	58.6	58.2	58.6
30°	54.1	53.8	53.4	53.8	53.4	53.8	54.5	54.5	53.8	52.7	53.1
32.5°	49.7	49.7	49.3	49.7	49.3	49.3	50.1	49.0	49.0	48.6	48.6
35°	43.8	44.5	45.2	45.6	45.6	45.6	46.3	45.2	44.9	44.5	44.5
37.5°	37.8	38.6	40.8	41.9	42.2	43.1	43.4	42.7	41.9	41.1	40.4
40°	36.0	36.0	36.7	38.2	39.7	40.1	40.8	39.7	39.3	38.2	37.1
42.5°	34.5	34.9	34.9	35.2	35.6	36.3	37.4	36.3	35.6	34.9	33.8
45°	33.3	33.3	33.3	33.3	33.0	33.0	33.3	32.6	32.2	31.9	31.9
47.5°	32.6	32.2	31.9	31.5	31.2	30.8	30.8	30.1	30.1	30.1	30.1
50°	31.9	31.2	30.8	30.4	29.7	29.7	29.7	28.9	28.5	28.5	28.9
52.5°	30.8	30.4	30.1	29.7	29.3	28.9	28.9	28.2	27.8	27.8	27.8
55°	30.4	30.1	29.3	28.9	28.5	28.9	28.5	28.2	27.4	27.4	27.4
57.5°	29.3	29.7	29.3	28.5	28.5	28.5	28.5	27.8	27.4	26.7	27.1
59°	28.9	29.3	28.9	28.5	28.2	28.5	28.5	27.4	27.1	26.7	26.7
60°	28.5	28.9	28.5	28.2	28.2	28.5	28.2	27.8	27.1	26.0	26.3
62.5°	28.2	28.2	27.8	27.8	27.4	27.8	27.4	26.7	26.0	25.3	24.9
65°	27.4	27.4	27.1	27.1	26.7	26.7	26.7	26.0	25.3	24.4	24.4
67.5°	27.1	26.7	26.3	26.3	26.0	26.0	26.0	25.3	24.1	23.7	23.3
70°	25.6	25.3	25.3	24.9	24.4	24.9	25.3	24.1	23.0	22.3	21.9
72.5°	24.1	23.7	23.7	23.3	23.3	23.7	24.1	23.0	21.5	20.8	20.4
75°	21.9	21.5	21.5	21.5	21.5	22.3	22.3	21.2	20.0	18.9	18.2
77.5°	18.9	19.3	19.3	19.3	19.3	20.0	20.0	19.3	18.2	17.4	16.4
80°	16.4	16.4	16.7	16.7	17.1	17.1	16.7	16.4	16.0	15.2	13.7
82.5°	13.7	13.7	13.7	13.7	13.7	13.4	12.6	13.4	13.4	12.6	11.5
85°	10.7	10.7	10.7	11.2	11.2	10.0	8.9	8.9	10.0	9.6	8.9
87.5°	6.3	6.3	6.6	7.8	7.1	6.6	5.5	5.9	5.5	6.3	5.2
90°	10.7	10.3	10.3	8.6	7.9	7.2	7.2	7.7	8.2	8.2	8.2
92.5°	6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.7	10.2	11.3	12.3	10.7	9.2	9.2	9.2	8.7	8.2
100°	23.5	25.1	26.6	28.1	29.7	25.6	21.5	16.9	12.3	11.3	10.2
102.5°	43.0	45.5	48.1	49.6	51.1	46.0	40.9	34.3	27.6	23.0	18.4
105°	66.5	69.0	71.6	72.6	73.7	69.0	64.4	56.8	49.1	43.0	36.8
107.5°	92.1	94.1	96.2	96.7	97.2	93.6	90.0	82.3	74.7	67.0	59.3

REPORT NUMBER: P227285  
 CATALOG NUMBER: ISW-AF-350-LED-E1-SLR-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	121.7	122.8	123.8	123.3	122.8	119.7	116.6	110.5	104.3	96.7	89.0	0°
112.5°	152.4	152.9	153.4	152.4	151.4	148.8	146.3	141.7	137.1	130.4	123.8	2.5°
115°	183.1	184.6	186.2	184.6	183.1	180.6	178.0	174.9	171.9	167.3	162.6	5°
117.5°	214.8	217.4	219.9	217.9	215.8	212.8	209.7	208.2	206.6	204.1	201.5	7.5°
120°	250.6	253.2	255.7	253.7	251.6	250.1	248.6	245.5	242.4	240.4	238.3	10°
122.5°	284.4	286.9	289.5	287.4	285.4	284.4	283.4	280.3	277.2	275.2	273.1	12.5°
125°	317.1	319.7	322.2	321.2	320.2	318.6	317.1	314.6	312.0	308.9	305.9	15°
127.5°	353.9	353.9	353.9	353.4	352.9	350.4	347.8	347.3	346.8	343.7	340.6	17.5°
130°	389.7	389.7	389.7	387.7	385.7	383.1	380.5	379.5	378.5	376.4	374.4	20°
132.5°	423.5	424.5	425.5	423.0	420.4	417.4	414.3	413.8	413.3	411.7	410.2	22.5°
135°	457.3	457.8	458.3	455.7	453.2	450.1	447.0	446.0	445.0	443.4	441.9	25°
137.5°	486.9	486.4	485.9	484.9	483.9	481.3	478.7	476.7	474.6	472.6	470.6	27.5°
140°	515.6	514.5	513.5	512.5	511.5	509.9	508.4	505.3	502.3	501.2	500.2	30°
142.5°	545.2	545.2	545.2	542.2	539.1	538.1	537.0	535.0	533.0	531.4	529.9	32.5°
145°	573.9	574.4	574.9	571.8	568.8	566.2	563.6	563.1	562.6	561.1	559.6	35°
147.5°	599.4	598.9	598.4	595.9	593.3	590.8	588.2	587.7	587.2	587.2	587.2	37.5°
150°	616.8	615.3	613.8	612.2	610.7	608.7	606.6	606.6	606.6	606.6	606.6	40°
152.5°	632.2	630.1	628.1	626.6	625.0	624.5	624.0	624.0	624.0	623.5	623.0	42.5°
155°	650.6	648.0	645.5	642.9	640.4	641.4	642.4	643.4	644.5	642.9	641.4	45°
157.5°	664.9	663.9	662.9	660.8	658.8	659.3	659.8	660.3	660.8	659.8	658.8	47.5°
160°	676.2	677.7	679.2	676.2	673.1	671.6	670.0	670.0	670.0	670.5	671.1	50°
162.5°	685.4	685.9	686.4	684.4	682.3	680.3	678.2	677.2	676.2	678.2	680.3	52.5°
165°	695.6	694.1	692.5	690.0	687.4	687.9	688.4	688.4	688.4	690.0	691.5	55°
167.5°	703.8	701.7	699.7	696.6	693.6	697.1	700.7	702.3	703.8	702.8	701.7	57.5°
170°	709.9	707.4	704.8	703.3	701.7	704.3	706.9	707.9	708.9	708.4	707.9	59°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	60°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	62.5°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	65°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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: P227285  
 NUMBER: ISW-AF-350-LED-E1-SLR-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	110°	82.3
632.8	634.2	637.6	636.5	648.8	645.1	653.6	665.0	675.9	670.6	672.1	112.5°	116.1
520.4	522.2	508.2	516.7	529.3	524.1	522.2	539.3	535.2	554.5	538.6	115°	156.5
385.3	380.9	374.3	370.9	361.6	361.6	379.1	386.9	385.8	399.2	412.9	117.5°	197.4
270.8	265.6	257.4	255.2	264.4	268.9	276.7	284.5	294.9	310.1	319.0	120°	234.8
198.9	196.9	198.9	204.4	212.9	219.2	231.1	244.8	256.4	268.5	280.4	122.5°	270.1
150.3	154.0	158.8	162.4	169.1	181.0	187.3	202.5	212.9	223.6	237.4	125°	304.3
116.8	119.1	120.2	121.6	127.3	135.7	135.7	151.3	165.1	179.1	190.7	127.5°	338.6
89.0	89.0	85.3	87.6	88.3	87.6	92.0	100.9	109.8	119.1	137.3	130°	372.4
74.6	72.3	71.2	70.9	71.2	72.7	75.3	78.7	80.1	84.2	91.2	132.5°	406.1
66.0	65.7	64.5	64.5	65.3	65.7	68.2	71.2	71.9	73.0	75.7	135°	438.8
58.2	59.0	60.0	59.7	60.0	60.9	62.7	65.3	66.8	67.1	68.9	137.5°	470.0
52.7	53.4	53.8	54.9	54.9	55.2	56.8	59.3	60.5	62.3	64.1	140°	499.2
49.0	49.3	49.7	49.3	49.7	49.7	51.6	54.1	55.6	56.8	57.9	142.5°	529.4
44.9	44.5	44.5	44.5	43.4	43.1	43.8	46.3	46.7	47.9	50.4	145°	558.0
40.1	39.0	38.2	38.2	38.2	38.6	40.4	43.1	43.4	44.5	46.7	147.5°	585.6
35.6	35.2	35.2	35.6	36.0	36.7	38.2	40.8	41.1	42.2	44.1	150°	606.6
33.3	33.3	33.3	33.8	34.2	34.5	36.3	39.0	39.7	40.8	43.1	152.5°	622.5
31.9	32.2	31.9	31.9	32.2	33.0	34.9	37.8	39.0	40.1	42.2	155°	640.4
30.8	30.8	30.8	31.2	31.2	31.9	34.2	37.1	37.8	39.3	42.7	157.5°	658.3
29.3	30.1	29.7	30.1	30.4	31.2	33.3	36.3	37.4	39.7	43.4	160°	672.6
28.5	28.5	28.5	28.9	29.7	30.1	31.9	35.2	36.7	39.7	45.6	162.5°	682.3
28.2	27.4	27.4	27.8	28.5	29.3	31.2	34.5	36.3	39.3	45.2	165°	691.5
27.8	26.7	26.3	26.7	27.4	27.8	30.1	33.3	36.0	38.2	43.8	167.5°	700.7
26.7	26.0	25.6	26.0	26.7	27.4	29.3	32.6	34.5	37.4	41.9	170°	707.9
26.3	25.3	25.3	25.6	26.3	26.7	28.5	31.9	33.8	37.8	43.1	172.5°	709.9
24.9	24.4	24.4	24.9	24.9	25.6	27.8	31.2	32.6	38.6	36.0	175°	712.0
23.7	23.7	23.7	23.7	24.1	24.4	27.1	30.4	31.2	33.3	30.8	177.5°	715.6
23.0	23.0	23.0	23.0	23.0	23.7	26.0	29.3	29.7	29.3	28.2	180°	716.1
21.5	21.5	21.5	21.5	21.9	22.3	24.4	27.4	27.4	26.7	26.7		
20.4	20.0	20.0	20.0	20.0	20.4	22.6	25.6	25.3	24.9	24.9		
18.2	18.2	18.2	18.2	18.2	18.2	20.4	23.3	23.0	22.6	22.3		
16.0	16.0	16.4	16.0	15.5	15.2	17.4	20.8	20.8	20.4	20.0		
13.7	13.4	13.7	13.4	12.6	12.6	14.4	17.4	17.8	17.4	16.7		
11.2	10.7	10.7	10.7	9.3	9.3	11.2	14.1	14.1	13.7	13.0		
8.5	8.2	7.8	7.5	6.3	6.3	7.8	10.4	10.7	9.3	8.9		
4.5	4.5	4.5	3.4	3.0	2.6	4.1	6.3	6.3	5.2	4.5		
7.7	7.2	6.1	5.1	5.1	5.1	6.1	7.6	7.7	8.2	8.2		
5.6	5.1	4.6	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1		
6.6	6.1	5.6	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2		
8.2	8.2	7.7	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7		
9.7	9.2	8.7	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3		
15.9	13.3	12.3	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0		
32.2	27.6	25.1	22.5	21.5	22.5	25.1	27.6	32.2	36.8	43.0		
54.7	50.1	46.5	43.0	41.9	43.0	46.5	50.1	54.7	59.3	67.0		

'227285  
 ISW-AF-350-LED-E1-SLR-ULG

REPORT NUMBER: P227285  
 CATALOG NUMBER: ISW-AF-3!

**TION (continued):**

**CANDELA DISTRIBUTION (con**

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
75.7	72.6	69.6	67.5	69.6	72.6	75.7	82.3	89.0	96.7	0°	728.1	728.1
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	681.4	684.8
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	550.4	563.4
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	416.1	433.6
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	333.5	345.3
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	292.7	309.7
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	251.1	269.6
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	205.8	228.5
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	157.2	179.5
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	110.6	129.4
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	80.5	89.0
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	71.6	74.9
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	67.1	69.4
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	60.5	62.7
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	53.1	56.1
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	49.3	51.6
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	47.1	47.5
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	45.2	45.2
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	44.1	45.2
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	44.9	49.7
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	50.4	49.0
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	51.6	46.0
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	47.1	44.1
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	42.2	38.6
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	37.8	35.6
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	35.2	34.5
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	32.2	33.0
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	30.1	31.5
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	28.9	30.1
										70°	27.1	27.8
										72.5°	25.3	25.6
										75°	22.6	23.0
										77.5°	20.0	20.0
										80°	16.4	16.4
										82.5°	12.6	12.3
										85°	8.2	7.8
										87.5°	3.7	3.0
										90°	8.2	7.7
										92.5°	6.1	6.1
										95°	7.2	7.2
										97.5°	9.2	9.2
										100°	12.3	16.9
										102.5°	27.6	34.3
										105°	49.1	56.8
										107.5°	74.7	82.3



REPORT NUMBER: P227285

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

50-LED-E1-SLR-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	110°	104.3	110.5	116.6
701.4	711.8	720.0	718.5	735.9	746.2	747.8	758.5	769.0	112.5°	137.1	141.7	146.3
573.8	588.3	602.4	612.7	640.2	662.9	680.3	698.8	720.7	115°	171.9	174.9	178.0
457.4	469.5	492.6	509.2	538.2	564.6	590.1	619.4	644.3	117.5°	206.6	208.2	209.7
358.3	373.9	395.4	426.6	452.6	482.5	514.9	542.7	584.2	120°	242.4	245.5	248.6
321.9	331.6	349.4	364.3	396.5	428.4	464.7	503.0	541.1	122.5°	277.2	280.3	283.4
284.5	301.6	318.2	339.7	368.0	402.8	442.1	483.3	526.3	125°	312.0	314.6	317.1
248.2	270.8	289.0	312.3	343.8	388.0	439.2	490.4	540.8	127.5°	346.8	347.3	347.8
203.7	224.7	256.7	280.4	321.6	376.9	442.5	513.3	581.6	130°	378.5	379.5	380.5
160.2	182.9	219.2	254.4	299.7	370.9	455.8	551.2	642.4	132.5°	413.3	413.8	414.3
114.6	145.4	181.4	225.9	280.8	367.2	474.0	597.9	720.7	135°	445.0	446.0	447.0
85.7	107.2	151.0	199.6	259.6	360.5	493.4	641.3	774.1	137.5°	474.6	476.7	478.7
76.4	91.7	120.2	171.3	233.6	347.6	507.8	682.5	822.7	140°	502.3	505.3	508.4
66.8	78.7	101.3	144.6	210.3	327.5	514.1	704.4	856.4	142.5°	533.0	535.0	537.0
58.6	69.8	92.7	134.3	198.5	304.9	513.0	726.3	898.8	145°	562.6	563.1	563.6
53.4	63.0	89.0	131.7	189.1	284.1	514.1	761.5	961.5	147.5°	587.2	587.7	588.2
49.3	60.5	86.0	126.1	184.7	272.6	518.5	792.7	1015.2	150°	606.6	606.6	606.6
49.3	59.7	78.7	118.4	182.5	273.7	520.4	816.7	1055.3	152.5°	624.0	624.0	624.0
52.0	56.1	73.0	113.9	183.9	281.9	518.1	841.3	1094.3	155°	644.5	643.4	642.4
49.3	52.3	69.4	113.1	183.9	287.9	524.9	871.7	1145.4	157.5°	660.8	660.3	659.8
46.7	48.6	68.2	112.0	180.2	293.4	552.3	928.4	1212.2	160°	670.0	670.0	670.0
43.4	45.6	66.8	110.2	176.2	300.4	600.9	1023.8	1322.7	162.5°	676.2	677.2	678.2
39.3	43.8	64.5	107.2	173.6	313.0	650.6	1120.1	1454.3	165°	688.4	688.4	688.4
37.8	41.9	59.3	100.1	171.0	326.7	703.6	1212.5	1572.7	167.5°	703.8	702.3	700.7
36.7	40.4	54.9	94.9	168.8	333.5	719.5	1247.8	1618.3	170°	708.9	707.9	706.9
36.0	39.7	52.3	90.5	166.1	333.8	731.1	1261.1	1625.0	172.5°	705.8	705.8	705.8
34.9	38.2	47.1	81.2	158.0	333.5	732.2	1269.7	1605.7	175°	706.9	706.3	705.8
33.0	36.7	47.5	76.4	143.2	317.8	686.2	1228.5	1528.9	177.5°	713.0	712.0	711.0
31.5	35.6	50.1	77.5	127.6	277.8	600.2	1100.5	1364.6	180°	716.1	716.1	716.1
29.3	34.9	52.3	80.1	123.2	230.7	454.0	898.8	1142.8				
27.1	34.5	54.1	81.9	118.4	189.9	314.6	637.2	855.3				
24.4	31.5	49.3	69.8	97.9	138.0	202.5	417.0	589.7				
21.2	25.3	36.0	49.0	71.9	96.5	119.8	251.9	385.8				
17.4	18.9	25.6	31.5	47.9	57.1	66.4	142.1	269.6				
13.0	13.4	17.4	20.0	27.1	31.5	39.7	87.2	218.5				
7.5	8.5	11.9	13.4	16.4	20.0	26.0	55.6	171.3				
3.0	3.7	7.1	7.8	8.9	11.2	14.4	32.2	53.4				
7.2	7.2	7.2	8.2	9.2	9.2	9.2	8.2	7.2				
6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1				
7.2	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2				
9.2	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2				
21.5	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4				
40.9	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9				
64.4	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4				
90.0	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0				



REPORT NUMBER: P227285

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

SLR-ULG

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	0°	728.1	728.1	728.1	728.1
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	779.3	787.1	793.8	798.9
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	744.1	762.2	784.1	802.7
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	681.4	704.4	740.0	761.9
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	622.1	655.8	694.7	726.3
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	581.6	623.5	660.6	695.8
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	570.5	613.2	646.5	678.8
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	592.7	635.4	663.9	683.6
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	645.1	690.7	708.8	707.4
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	716.6	764.5	764.5	749.6
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	811.2	845.7	826.7	798.6
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	878.3	910.6	877.6	831.2
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	934.0	957.7	915.8	859.8
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	983.0	1000.3	945.1	889.9
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	1041.6	1047.8	975.5	916.6
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	1106.4	1111.6	1019.3	945.8
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	1182.8	1164.3	1051.6	972.9
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	1230.0	1199.5	1074.9	987.0
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	1267.0	1225.5	1085.7	995.1
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	1312.7	1263.8	1104.6	1010.1
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	1372.8	1316.7	1152.5	1051.9
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	1496.0	1426.5	1238.5	1125.0
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	1637.6	1572.0	1376.1	1245.5
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	1751.1	1707.0	1498.9	1354.6
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	1793.0	1774.1	1585.7	1447.0
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	1808.6	1824.9	1631.7	1503.3
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	1819.3	1890.2	1781.2	1671.7
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	1797.1	1900.9	1841.6	1774.5
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	1700.2	1824.5	1813.1	1754.1
								70°	1502.2	1640.6	1680.6	1596.8
								72.5°	1130.2	1301.9	1520.4	1389.1
								75°	736.3	895.0	1298.2	1189.9
								77.5°	461.0	558.6	926.2	833.5
								80°	306.8	359.1	587.9	535.2
								82.5°	230.7	254.4	404.3	380.2
								85°	121.6	155.1	314.6	398.7
								87.5°	45.6	50.8	236.6	356.5
								90°	7.2	7.2	8.6	9.2
								92.5°	6.1	6.1	6.1	6.1
								95°	7.2	7.2	7.2	7.2
								97.5°	8.2	8.2	8.7	9.2
								100°	19.4	19.4	21.5	23.5
								102.5°	38.9	39.9	41.4	43.0
								105°	62.4	62.4	64.4	66.5
								107.5°	88.0	89.0	90.5	92.1





REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
728.1	728.1	728.1	728.1	728.1	728.1	728.1	110°	119.7	118.7	120.2	121.7	122.8
803.4	810.1	814.2	811.2	816.0	817.1	811.9	112.5°	150.4	150.4	151.4	152.4	152.9
818.3	836.8	850.2	859.4	863.2	866.4	865.0	115°	182.1	181.1	182.1	183.1	184.6
790.8	819.4	844.2	861.3	867.3	871.7	867.6	117.5°	213.8	212.8	213.8	214.8	217.4
760.4	790.0	813.5	830.5	830.1	834.5	826.7	120°	248.6	248.6	249.6	250.6	253.2
731.8	760.8	781.5	780.8	775.6	762.6	760.4	122.5°	283.4	282.3	283.4	284.4	286.9
709.2	724.5	729.6	728.4	713.6	706.2	705.1	125°	317.1	317.1	317.1	317.1	319.7
698.1	697.3	685.5	672.5	658.4	657.7	648.0	127.5°	355.0	352.9	353.4	353.9	353.9
699.9	675.9	654.0	631.7	616.4	613.2	614.3	130°	388.7	387.7	388.7	389.7	389.7
723.3	680.7	639.4	616.8	599.0	593.8	596.1	132.5°	424.5	423.5	423.5	423.5	424.5
752.6	695.5	644.3	609.8	595.4	589.0	590.1	135°	461.4	460.3	458.8	457.3	457.8
772.2	712.5	660.2	617.6	597.9	592.0	595.7	137.5°	493.1	492.0	489.5	486.9	486.4
797.5	735.9	681.8	637.6	608.3	600.5	603.1	140°	522.7	520.7	518.1	515.6	514.5
822.4	761.1	712.2	662.1	626.5	612.0	616.1	142.5°	548.3	546.3	545.7	545.2	545.2
849.0	790.4	741.1	695.5	653.6	631.0	636.2	145°	572.9	570.8	572.3	573.9	574.4
880.1	824.6	782.3	740.3	697.3	678.4	680.7	147.5°	598.4	596.4	597.9	599.4	598.9
910.2	857.9	830.8	799.7	774.5	745.5	745.5	150°	624.0	619.9	618.4	616.8	615.3
928.0	901.3	894.0	885.1	870.2	849.4	845.0	152.5°	642.4	637.3	634.7	632.2	630.1
949.9	952.9	970.0	987.8	992.2	971.8	965.5	155°	655.7	652.6	651.6	650.6	648.0
991.1	1022.2	1078.3	1126.9	1136.5	1153.2	1133.9	157.5°	670.0	664.9	664.9	664.9	663.9
1048.9	1106.4	1201.0	1280.4	1303.0	1304.6	1306.0	160°	681.3	675.1	675.7	676.2	677.7
1115.0	1197.4	1322.4	1416.9	1457.3	1468.1	1460.3	162.5°	689.5	683.3	684.4	685.4	685.9
1228.2	1302.6	1439.5	1541.6	1593.5	1618.7	1612.0	165°	697.7	693.6	694.6	695.6	694.1
1340.2	1432.8	1553.5	1653.9	1709.1	1737.4	1743.3	167.5°	709.9	703.8	703.8	703.8	701.7
1416.6	1503.3	1614.6	1707.3	1761.8	1795.6	1798.6	170°	717.1	712.0	711.0	709.9	707.4
1463.2	1542.6	1651.3	1733.0	1787.5	1816.0	1826.4	172.5°	717.1	712.0	711.0	709.9	708.9
1605.0	1619.4	1693.6	1747.4	1785.6	1798.6	1806.3	175°	715.0	709.9	711.0	712.0	711.5
1671.4	1610.9	1602.4	1635.8	1639.1	1630.6	1619.8	177.5°	718.1	714.0	715.6	717.1	716.1
1579.0	1437.7	1385.4	1380.9	1367.2	1361.6	1327.5	180°	716.1	716.1	716.1	716.1	716.1
1371.3	1167.7	1075.3	1025.2	1055.7	1054.6	1019.7						
1155.4	948.1	828.3	756.3	747.4	745.9	715.5						
938.5	744.1	639.1	604.3	562.3	549.7	554.8						
676.6	531.1	508.9	535.6	539.0	529.3	522.6						
426.2	399.5	420.9	469.5	498.2	485.5	490.4						
355.4	314.6	316.0	367.2	386.5	389.4	379.4						
394.2	314.9	258.2	251.9	245.2	154.3	214.7						
355.4	243.7	143.5	118.4	72.7	41.9	43.4						
9.2	9.2	8.2	7.2	7.2	7.2	7.7						
6.6	7.2	7.2	7.2	6.6	6.1	6.1						
7.7	8.2	7.7	7.2	7.2	7.2	7.2						
9.7	10.2	11.3	12.3	10.7	9.2	9.2						
25.1	26.6	28.1	29.7	25.6	21.5	16.9						
45.5	48.1	49.6	51.1	46.0	40.9	34.3						
69.0	71.6	72.6	73.7	69.0	64.4	56.8						
94.1	96.2	96.7	97.2	93.6	90.0	82.3						



REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
123.8	123.3	122.8	119.7	116.6	110.5	0°	728.1	728.1	728.1	728.1	728.1	728.1
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	810.8	803.7	796.0	785.6	787.5	774.9
186.2	184.6	183.1	180.6	178.0	174.9	5°	853.4	841.3	824.6	803.4	783.8	758.5
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	849.0	829.4	801.6	769.7	743.7	707.4
255.7	253.7	251.6	250.1	248.6	245.5	10°	810.8	785.2	762.6	729.6	695.8	663.9
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	757.4	743.0	723.3	698.5	665.8	633.2
322.2	321.2	320.2	318.6	317.1	314.6	15°	699.2	700.3	688.4	681.8	665.4	639.4
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	651.3	662.5	668.8	679.1	681.0	668.4
389.7	387.7	385.7	383.1	380.5	379.5	20°	619.4	635.0	654.7	683.2	713.3	726.3
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	601.6	620.9	652.4	704.4	759.2	792.3
458.3	455.7	453.2	450.1	447.0	446.0	25°	598.3	623.9	668.0	731.4	802.7	849.0
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	603.8	637.2	689.6	761.9	832.0	899.1
513.5	512.5	511.5	509.9	508.4	505.3	30°	621.6	660.6	717.7	795.7	868.3	935.1
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	638.7	686.9	750.0	826.0	899.1	965.5
574.9	571.8	568.8	566.2	563.6	563.1	35°	666.1	714.7	779.3	849.4	920.2	995.5
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	708.1	750.7	802.3	867.6	941.4	1019.3
613.8	612.2	610.7	608.7	606.6	606.6	40°	767.8	796.0	829.4	881.0	951.8	1035.2
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	857.2	863.2	874.6	901.3	961.1	1053.7
645.5	642.9	640.4	641.4	642.4	643.4	45°	972.5	954.7	944.7	941.0	981.8	1065.6
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	1106.4	1071.5	1031.5	1012.2	1021.9	1084.5
679.2	676.2	673.1	671.6	670.0	670.0	50°	1280.7	1224.1	1145.4	1089.7	1084.9	1140.2
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	1440.6	1366.5	1267.4	1201.8	1175.1	1244.1
692.5	690.0	687.4	687.9	688.4	688.4	55°	1591.6	1534.5	1422.5	1340.9	1331.6	1381.7
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	1724.1	1674.7	1583.1	1476.6	1480.3	1528.9
704.8	703.3	701.7	704.3	706.9	707.9	59°	1792.6	1751.5	1666.5	1558.3	1566.3	1633.1
707.9	706.3	704.8	705.3	705.8	705.8	60°	1817.2	1782.6	1701.8	1610.5	1620.9	1690.3
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	1815.2	1793.0	1734.4	1691.3	1744.4	1795.3
715.0	712.5	709.9	710.4	711.0	712.0	65°	1642.0	1608.3	1601.6	1676.9	1779.3	1828.2
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	1306.0	1322.0	1385.4	1514.8	1686.5	1757.7
						70°	970.0	998.1	1082.7	1245.1	1481.0	1604.2
						72.5°	713.3	741.4	819.4	997.4	1218.4	1327.5
						75°	559.8	568.2	624.3	764.0	960.3	1049.6
						77.5°	517.1	491.4	468.5	543.4	647.6	724.5
						80°	481.5	432.9	378.7	401.3	426.6	508.2
						82.5°	373.9	341.7	299.3	328.3	340.1	342.7
						85°	218.8	194.8	246.6	349.4	345.7	302.7
						87.5°	77.1	100.1	112.7	193.6	234.1	202.5
						90°	8.2	9.3	11.6	11.4	12.7	8.0
						92.5°	6.1	6.1	6.1	5.6	5.1	4.6
						95°	7.2	7.2	7.2	6.6	6.1	5.6
						97.5°	9.2	8.7	8.2	8.2	8.2	7.7
						100°	12.3	11.3	10.2	9.7	9.2	8.7
						102.5°	27.6	23.0	18.4	15.9	13.3	12.3
						105°	49.1	43.0	36.8	32.2	27.6	25.1
						107.5°	74.7	67.0	59.3	54.7	50.1	46.5



REPORT NUMBER: P227285

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

**CANDELA DISTRIBUTION (continued):**

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
728.1	728.1	728.1	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
764.9	754.4	753.7	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
738.5	715.1	707.7	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
675.9	648.8	643.1	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
623.2	593.1	587.9	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
596.1	567.5	561.2	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
606.4	574.9	571.6	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
645.4	612.0	613.5	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
712.2	690.7	685.5	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
799.7	776.3	769.7	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
874.2	862.3	857.9	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
928.0	933.6	929.1	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
971.1	989.6	987.4	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
1015.2	1051.2	1052.7	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
1047.8	1111.2	1124.2	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
1089.7	1174.7	1188.1	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
1121.7	1221.4	1237.8	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
1152.9	1260.0	1277.8	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
1178.4	1298.2	1316.4	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
1207.4	1335.3	1353.2	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
1259.3	1393.6	1414.6	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
1371.0	1501.5	1531.6	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
1532.3	1650.6	1674.4	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
1677.6	1751.8	1758.1	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
1737.4	1779.6	1777.8	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
1781.2	1786.4	1775.9	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
1804.9	1755.6	1737.8	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
1742.9	1674.4	1650.9	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
1564.2	1527.8	1501.1	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
1330.4	1238.5	1221.1								
1008.5	887.2	861.3								
704.7	559.3	524.1								
463.3	359.1	345.7								
300.4	238.4	234.5								
209.6	156.5	144.3								
128.7	52.3	50.1								
40.1	24.1	21.5								
6.2	6.6	6.6								
4.1	4.1	4.1								
5.1	5.1	5.1								
7.2	7.2	7.2								
8.2	8.2	8.2								
11.3	11.3	11.3								
22.5	21.7	21.5								
43.0	42.1	41.9								



359°	360°
67.9	67.5
101.3	101.3
143.0	143.2
188.2	188.2
229.8	230.2
268.4	269.0
304.0	304.8
337.4	337.6
370.9	371.3
404.7	405.1
438.2	438.8
469.9	470.6
498.6	499.2
529.3	529.9
561.8	562.6
587.6	588.2
608.0	608.7
624.4	625.0
642.6	643.4
660.2	660.8
677.6	678.2
687.6	688.4
696.0	696.6
705.2	705.8
713.4	714.0
714.6	715.0
715.7	716.1
722.8	723.2
716.1	716.1

(END OF REPORT)