

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: P226914

Luminaire Tested: **ISW-AF-XXX-LED-E1-SL3-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-XXX-LED-E1-SL3-7030-XXB
Description: IMPACT ELITE LED WEDGE LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 556.9 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U1 - G1

Input Watts (W): 13
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

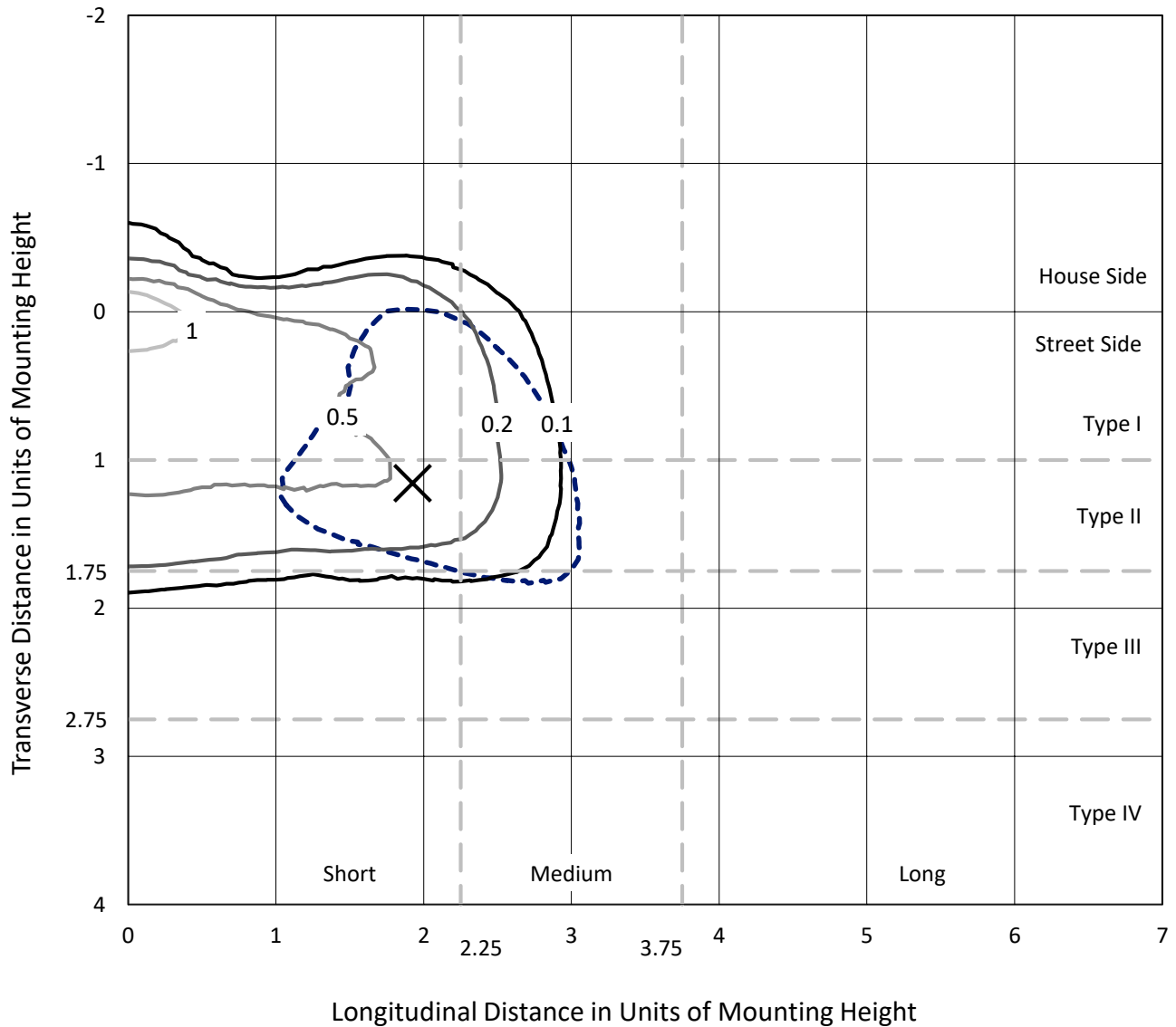


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Iso-Footcandle Lines of Horizontal Illumination

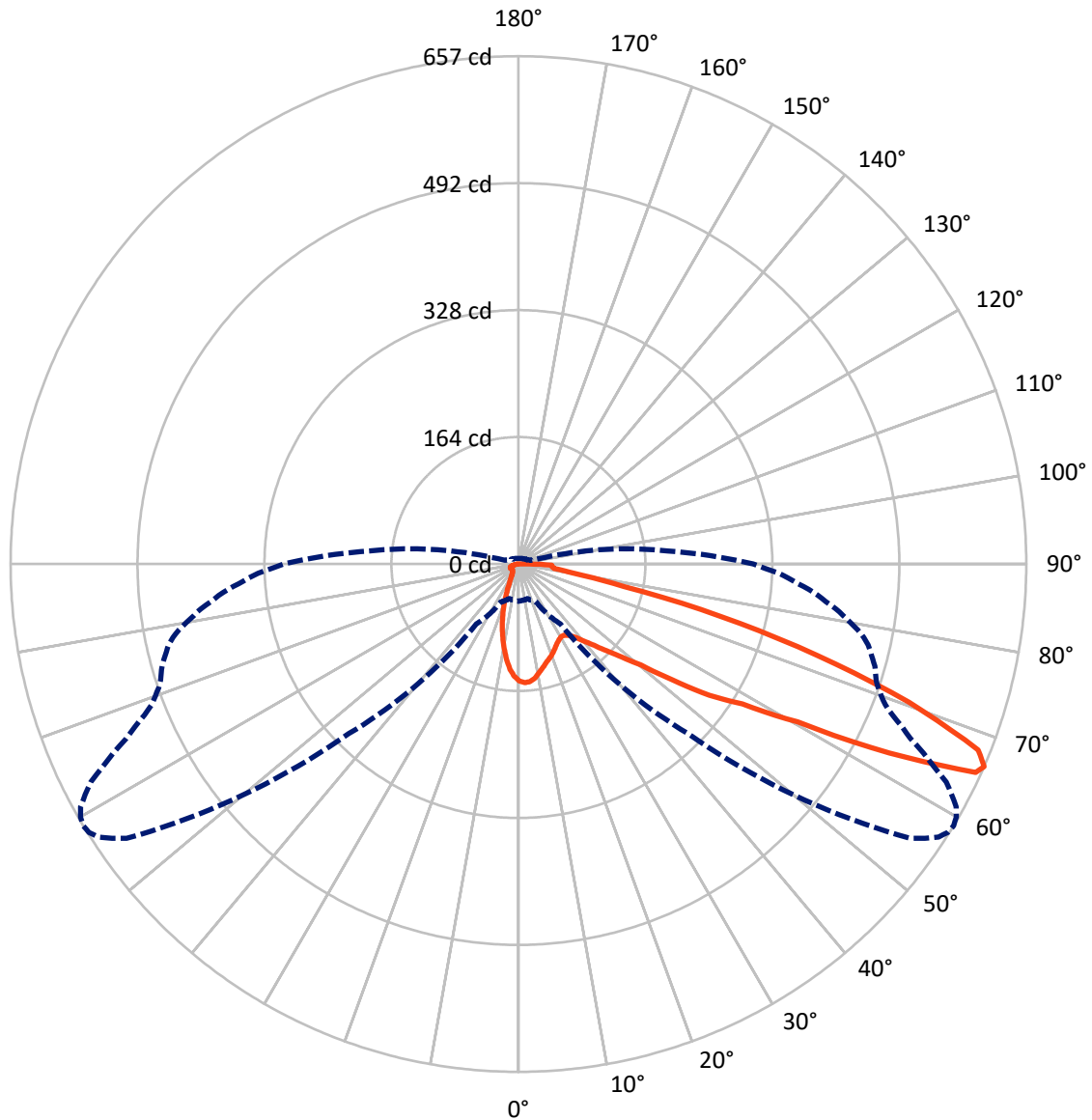
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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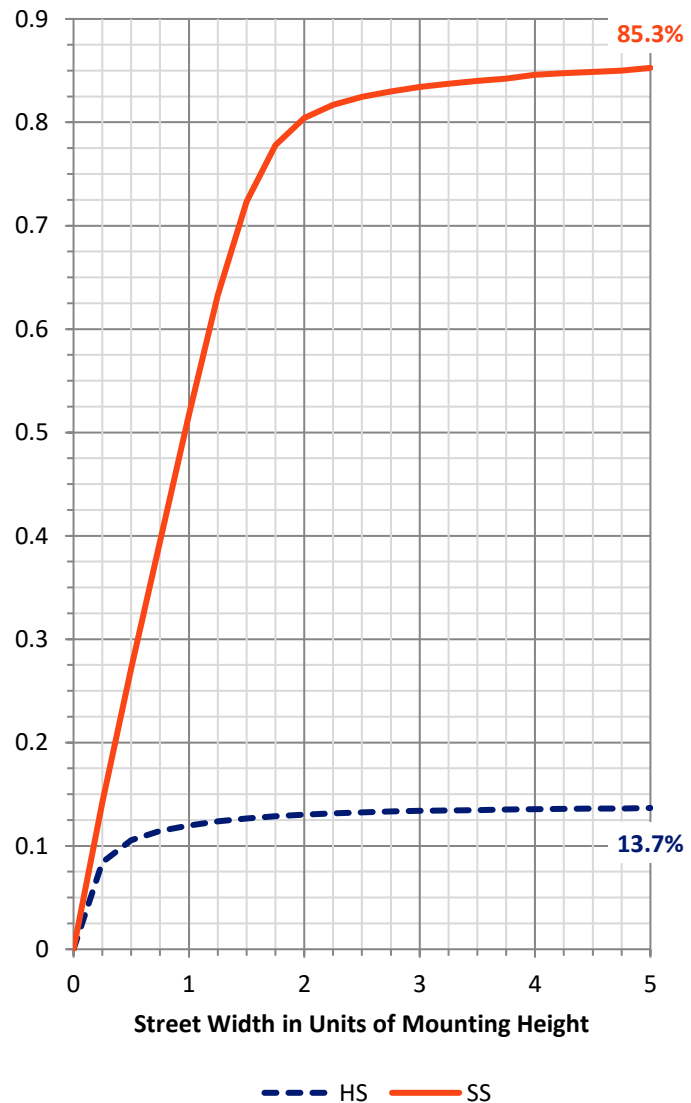
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	77.3	0.0	77.3
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	479.4	0.2	479.6
	% Fixture	86.1	0.0	86.1
Total	Lumens	556.7	0.2	556.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	2.3
10°-20°	27.2	4.9
20°-30°	34.2	6.1
30°-40°	46.8	8.4
40°-50°	75.2	13.5
50°-60°	130.7	23.5
60°-70°	158.8	28.5
70°-80°	59.2	10.6
80°-90°	11.7	2.1
90°-100°	0.2	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°	556.7	100.0
0°-180°	556.9	100.0

Coefficient of Utilization



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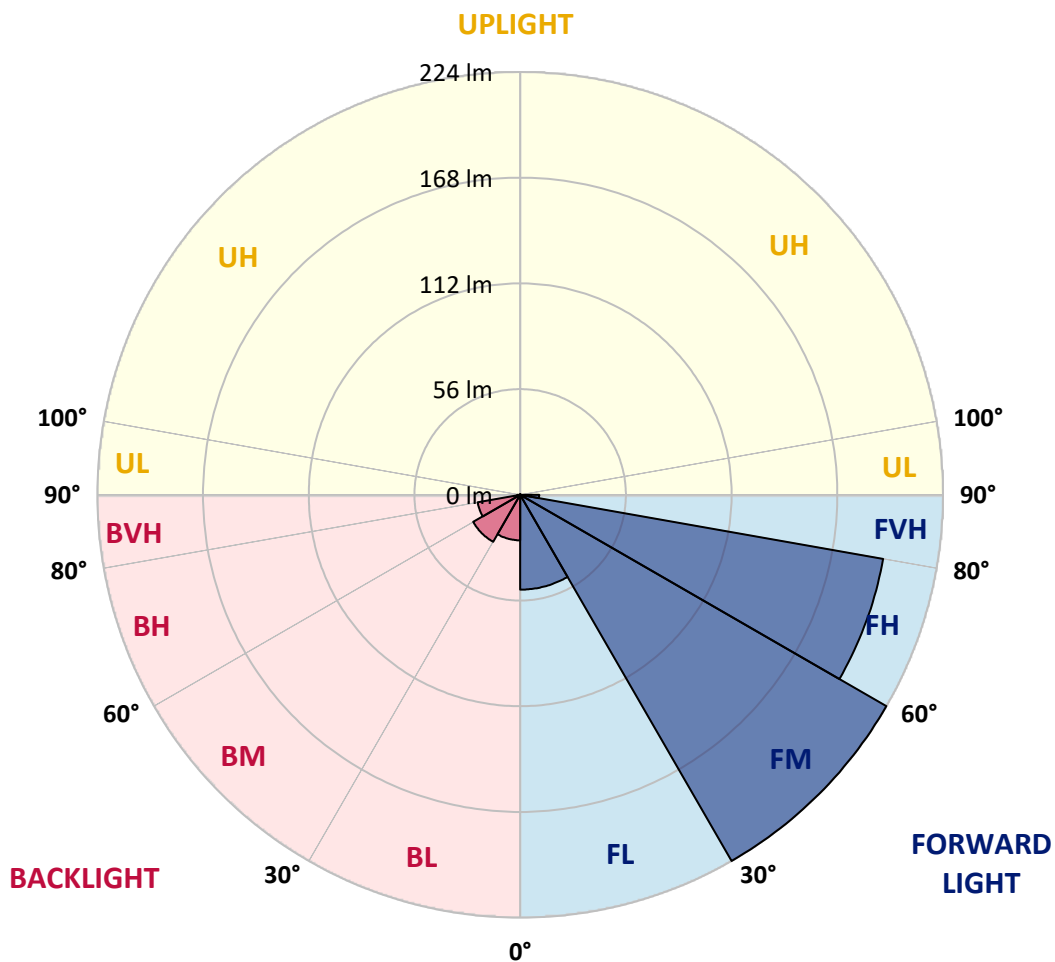
CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-7030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	50.2	9.0			
FM	(30°-60°)	223.9	40.2			
FH	(60°-80°)	195.2	35.0			G0/660
FVH	(80°-90°)	10.1	1.8			G1/100
BL	(0°-30°)	24.1	4.3	B0/110		
BM	(30°-60°)	28.7	5.2	B0/220		
BH	(60°-80°)	22.8	4.1	B0/110		G0/110
BVH	(80°-90°)	1.6	0.3			G0/10
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B0-U1-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3
2.5°	155.2	154.7	155.6	155.3	155.6	154.3	154.0	153.8	153.9	153.7	153.7
5°	151.5	151.3	152.4	153.0	153.5	153.3	153.3	153.3	153.3	152.7	152.8
7.5°	140.8	140.6	142.2	143.3	145.7	147.2	149.1	149.2	149.3	149.1	149.6
10°	129.4	129.9	131.2	133.0	136.7	138.9	142.5	143.2	143.4	143.5	143.6
12.5°	118.4	117.9	119.6	123.0	128.0	131.6	136.1	136.4	136.9	137.5	138.1
15°	108.7	109.3	110.7	114.2	119.4	124.5	130.4	130.7	131.6	132.1	132.9
17.5°	102.0	102.0	103.6	106.9	111.8	118.2	125.6	126.2	126.9	127.6	128.5
20°	98.7	98.7	99.3	101.3	105.5	111.7	120.6	121.3	122.5	123.3	124.6
22.5°	98.4	98.4	98.3	98.7	101.3	106.0	115.3	116.3	117.3	118.5	119.6
25°	101.2	101.4	100.4	99.7	100.0	102.2	110.3	110.8	112.8	113.6	114.9
27.5°	105.1	105.5	104.7	103.7	102.1	100.7	106.0	106.9	108.2	109.5	111.2
30°	110.7	110.7	110.6	109.9	106.9	102.4	104.8	105.4	106.5	107.5	108.9
32.5°	116.8	117.5	118.0	117.7	114.6	106.9	106.6	107.1	108.1	108.7	109.6
35°	124.7	125.0	127.0	127.0	123.9	115.0	111.6	112.0	112.5	112.8	113.5
37.5°	133.3	134.5	137.4	139.1	134.3	125.1	119.5	119.5	119.8	120.0	120.4
40°	143.3	145.0	149.0	152.2	149.2	137.6	129.9	130.7	130.5	130.1	131.1
42.5°	154.9	156.8	161.6	164.7	162.9	152.7	144.0	143.4	144.2	143.2	143.5
45°	168.4	169.8	174.8	178.0	179.5	171.3	162.3	161.3	161.3	159.1	160.0
47.5°	180.5	180.9	185.7	191.4	196.1	196.3	183.7	183.0	181.3	179.9	179.6
50°	191.8	193.0	196.1	202.3	212.2	220.7	213.0	210.9	209.1	203.7	205.3
52.5°	211.3	213.8	215.8	219.5	231.1	248.5	257.9	254.6	254.2	249.3	248.2
55°	215.0	215.2	221.7	243.4	270.7	283.2	301.4	301.3	302.7	301.1	299.7
57.5°	197.7	195.7	206.5	235.1	290.0	354.1	348.5	349.1	347.3	342.6	341.2
60°	154.0	155.7	167.4	203.9	276.1	399.8	436.5	425.6	433.4	421.2	414.6
62.5°	86.7	84.7	92.6	131.0	226.5	402.2	556.2	557.4	561.2	554.4	538.3
65°	55.9	55.1	54.3	66.3	135.8	351.8	622.5	637.2	646.0	649.6	649.8
66°	48.1	47.4	46.4	54.2	94.6	310.0	618.2	633.9	647.9	654.6	656.6
67.5°	40.9	39.9	39.7	44.9	65.8	240.5	577.5	602.2	614.6	631.8	641.2
70°	31.2	30.7	32.3	38.8	50.5	113.2	460.2	492.4	513.7	527.2	535.9
72.5°	26.2	26.0	28.2	35.4	47.9	64.2	322.1	356.7	379.0	391.9	403.8
75°	20.5	20.7	23.5	33.8	47.6	55.9	187.2	220.1	233.1	253.4	268.9
77.5°	15.4	15.2	17.4	27.3	46.4	56.7	97.2	110.9	125.2	135.5	139.3
80°	10.8	10.9	12.5	18.8	36.2	58.3	60.6	63.8	66.8	70.1	70.8
82.5°	7.2	7.3	9.2	12.9	25.1	55.7	56.6	55.2	52.9	49.9	46.8
85°	4.4	4.5	6.6	8.7	19.5	50.4	58.6	54.7	51.2	47.4	43.5
87.5°	2.2	2.5	3.9	5.1	11.5	24.8	61.0	58.1	53.4	47.5	43.2
90°	0.6	0.6	0.9	1.3	2.3	5.0	15.4	13.8	6.9	13.1	6.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3
2.5°	153.6	153.8	153.6	153.3	153.6	153.3	153.3	153.2	153.3	153.1	153.0
5°	152.8	153.0	153.0	152.5	152.4	152.7	152.2	152.4	152.2	152.1	151.7
7.5°	149.2	149.2	149.3	149.0	149.2	149.2	149.1	149.1	148.9	149.0	148.6
10°	144.0	144.4	144.7	144.5	144.5	145.2	144.9	145.1	145.1	144.9	145.0
12.5°	138.5	139.1	139.5	139.5	139.9	140.7	140.6	140.8	141.5	141.5	141.2
15°	133.4	134.0	134.6	135.2	135.8	136.4	136.9	137.5	137.9	137.9	138.3
17.5°	129.4	130.2	131.0	131.2	132.2	133.2	133.4	134.3	134.8	135.1	135.6
20°	125.4	126.4	127.3	128.2	129.0	130.2	130.8	131.3	132.2	132.7	133.4
22.5°	120.8	122.3	123.5	124.5	125.9	127.0	128.2	129.0	130.0	130.8	131.4
25°	116.5	118.4	120.0	121.1	123.0	124.5	125.9	127.2	128.5	129.6	130.5
27.5°	112.4	114.7	116.6	118.3	120.4	122.7	124.1	126.3	128.0	129.5	130.5
30°	110.5	112.4	114.4	116.3	118.4	121.3	123.7	126.4	128.6	130.5	132.1
32.5°	110.9	112.6	114.4	116.0	118.3	121.5	124.0	127.1	130.3	132.9	134.8
35°	114.3	115.9	117.1	118.5	120.5	122.9	125.6	128.9	132.9	136.3	138.8
37.5°	121.5	121.9	123.1	124.2	125.3	127.6	130.0	132.9	137.4	141.0	144.5
40°	130.4	131.5	132.6	133.1	134.3	135.8	136.9	139.9	143.9	148.6	152.5
42.5°	143.6	144.0	144.2	144.4	144.8	145.8	147.5	150.2	154.1	158.3	162.6
45°	158.5	159.0	159.5	159.7	159.1	159.7	161.5	162.7	166.6	170.5	176.1
47.5°	179.0	177.5	176.7	177.8	177.2	178.5	179.3	180.1	184.7	189.4	194.1
50°	205.4	204.5	203.3	203.4	204.3	203.5	204.0	206.8	208.3	212.3	218.5
52.5°	247.6	244.7	240.2	238.2	239.3	238.6	238.9	239.5	238.5	242.1	247.4
55°	299.7	295.9	292.9	291.2	284.9	284.4	280.2	278.7	275.3	278.9	277.7
57.5°	336.8	334.4	332.9	327.8	324.9	319.1	317.4	315.3	310.7	313.0	315.1
60°	408.5	400.0	397.1	388.1	385.1	379.6	372.5	369.0	366.6	368.8	367.5
62.5°	528.2	516.4	514.1	492.8	487.6	474.8	461.5	459.7	452.2	447.5	446.4
65°	645.1	628.1	615.4	592.2	576.5	558.2	537.9	523.0	507.8	500.1	489.9
66°	653.8	647.1	634.3	620.7	597.8	577.9	554.8	538.7	521.6	508.1	499.4
67.5°	639.0	635.4	630.9	621.6	607.3	588.7	566.8	546.3	525.7	509.8	495.9
70°	540.1	544.0	549.2	546.8	538.6	531.3	512.0	500.6	485.0	464.2	455.7
72.5°	407.7	418.2	414.6	401.1	394.8	389.8	382.8	375.1	352.8	350.2	340.2
75°	262.3	258.8	261.1	244.7	233.5	228.9	212.3	205.4	188.7	177.8	169.6
77.5°	138.2	131.4	126.1	111.7	101.3	95.3	87.2	77.6	62.9	62.1	48.7
80°	64.1	58.9	54.1	49.1	44.1	37.4	32.4	26.5	23.4	20.1	18.7
82.5°	43.5	40.2	37.3	34.0	30.1	25.5	22.0	18.7	16.0	14.3	13.1
85°	39.4	35.9	32.6	28.4	24.4	20.6	16.8	13.9	11.4	9.9	9.1
87.5°	38.3	33.9	30.5	26.0	22.0	18.1	14.5	11.3	8.8	7.2	6.1
90°	4.9	5.2	3.8	3.6	1.5	2.0	1.5	0.9	0.9	0.7	0.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226914

CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-7030-XXB

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226914

CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-7030-XXB

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3
2.5°	152.8	152.6	152.8	152.7	152.4	152.5	152.6	152.2	152.1	152.1	152.0
5°	151.5	151.3	151.5	151.4	150.9	150.8	150.8	150.5	150.2	149.9	149.8
7.5°	148.2	148.4	148.3	148.0	147.8	147.8	147.5	146.9	146.6	146.3	145.9
10°	144.5	144.5	144.6	144.5	144.1	144.0	143.6	143.3	143.4	142.5	141.8
12.5°	141.3	141.3	141.2	141.0	140.8	140.7	140.7	139.7	139.4	139.2	138.4
15°	138.2	138.4	138.4	138.4	138.0	138.0	137.5	136.9	136.9	136.1	135.3
17.5°	135.8	136.1	136.0	136.1	136.2	135.7	134.9	134.5	134.0	133.5	132.5
20°	133.8	134.0	134.0	134.0	133.8	133.4	132.8	132.1	131.7	130.9	129.6
22.5°	131.9	132.3	132.3	132.3	132.0	131.7	131.1	130.0	129.4	128.3	127.1
25°	131.1	131.6	131.3	131.5	131.1	130.5	129.6	128.8	127.7	126.4	125.2
27.5°	131.4	132.0	131.8	131.7	131.3	130.9	129.7	128.7	127.5	125.9	124.3
30°	132.9	134.0	133.5	133.2	133.1	132.1	131.0	129.5	128.2	126.4	124.5
32.5°	135.8	136.4	136.4	136.2	135.8	134.9	133.4	131.5	129.9	127.8	125.6
35°	140.6	141.1	141.0	141.0	140.5	139.2	137.3	135.4	133.3	130.9	128.6
37.5°	147.3	148.2	148.0	147.7	147.2	145.6	144.1	141.8	139.4	136.3	133.6
40°	155.6	157.1	158.4	158.1	156.9	155.5	154.1	151.5	149.1	145.6	142.7
42.5°	166.9	168.9	170.5	171.7	171.2	169.3	166.9	165.8	162.4	158.8	155.8
45°	181.3	185.4	186.9	188.3	188.3	187.2	186.6	184.4	180.8	176.1	173.2
47.5°	200.4	205.9	207.5	209.9	211.4	210.1	209.2	205.4	203.0	196.5	195.8
50°	223.5	229.0	233.4	236.3	235.9	237.0	234.8	232.7	229.3	224.0	222.1
52.5°	253.1	257.4	261.4	263.1	264.9	264.7	264.2	262.7	258.5	255.6	250.8
55°	283.4	287.0	291.8	294.6	297.0	296.5	294.6	291.1	291.8	285.8	283.1
57.5°	317.9	321.8	327.1	329.7	330.8	336.0	334.7	334.3	332.8	330.7	327.9
60°	377.2	378.3	382.7	389.3	397.5	395.9	398.0	399.3	400.3	395.6	395.2
62.5°	447.9	449.3	453.0	454.4	455.6	455.8	453.0	453.0	448.3	442.2	437.4
65°	486.5	483.7	481.1	479.7	476.5	473.7	469.6	464.0	456.1	446.6	438.1
66°	492.0	486.3	483.0	479.3	474.3	469.1	464.2	456.6	447.3	436.0	424.8
67.5°	486.7	478.8	471.0	465.7	458.7	449.3	440.7	431.9	423.1	407.6	397.1
70°	437.6	428.2	419.6	407.9	396.8	387.5	372.9	357.4	344.7	328.5	318.1
72.5°	325.0	313.9	302.8	286.2	270.1	267.7	249.2	231.0	221.3	208.2	197.7
75°	160.5	146.5	126.6	117.7	104.8	98.5	95.0	81.9	78.7	65.8	65.7
77.5°	45.3	38.9	34.6	30.1	28.3	26.9	22.2	21.3	19.3	19.0	17.8
80°	17.2	16.2	15.8	15.4	14.9	14.7	14.5	13.8	13.5	13.0	12.7
82.5°	12.4	12.0	11.3	11.0	10.7	10.2	10.1	9.6	9.4	8.9	8.7
85°	8.4	7.9	7.5	7.1	6.9	6.8	6.6	6.4	6.2	6.0	5.9
87.5°	5.6	5.2	4.7	4.5	4.4	4.5	4.6	4.4	4.4	4.2	4.1
90°	0.7	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	0.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226914
 CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-7030-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P226914
 NUMBER: ISW-AF-XXX-LED-E1-SL3-7030-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

<u>DISTRIBUTION (continued):</u>											<u>CANDELA DISTRIBUTION</u>	
82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		82°
151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	151.3	110°	0.0
151.8	151.5	151.6	151.3	151.2	151.4	151.5	151.5	151.2	149.7	147.9	112.5°	0.0
149.6	149.1	149.0	148.7	148.3	148.8	148.6	148.1	147.6	145.8	142.3	115°	0.0
145.5	145.1	144.7	144.4	144.1	144.0	143.9	143.4	142.5	139.2	133.3	117.5°	0.0
141.6	141.1	140.6	139.9	139.5	139.0	139.0	138.0	137.3	133.1	124.4	120°	0.0
137.7	136.9	136.7	136.2	135.2	134.8	134.2	133.2	132.2	127.1	115.7	122.5°	0.0
134.8	134.0	132.9	132.6	131.6	130.6	129.9	128.5	127.4	120.7	106.6	125°	0.0
131.7	131.1	129.9	129.1	128.0	126.9	125.6	123.9	123.1	114.7	97.8	127.5°	0.0
129.1	127.7	126.4	125.7	124.3	123.0	121.8	119.7	118.2	108.7	88.6	130°	0.0
126.1	124.9	123.5	122.3	120.4	118.9	117.5	115.3	113.5	102.6	79.3	132.5°	0.0
124.1	122.3	120.8	119.4	117.3	115.6	113.6	111.2	109.4	96.8	69.1	135°	0.0
122.9	121.2	119.2	117.5	115.0	113.0	110.8	108.3	105.9	92.1	59.4	137.5°	0.0
122.5	120.5	118.4	116.3	113.7	111.2	108.6	106.0	103.0	87.6	48.9	140°	0.0
123.5	121.1	118.8	116.2	113.2	110.4	107.7	104.4	101.3	83.7	38.6	142.5°	0.0
126.4	123.4	120.7	117.9	114.5	111.4	108.3	104.5	101.1	80.9	29.5	145°	0.0
130.8	128.0	124.9	122.1	118.2	114.8	111.2	107.2	103.1	79.8	22.3	147.5°	0.0
139.8	136.0	132.9	129.9	125.3	121.8	117.8	113.0	108.3	80.9	18.6	150°	0.0
152.3	147.6	144.7	142.1	136.4	132.6	128.0	122.4	117.2	83.8	16.4	152.5°	0.0
169.6	166.1	160.9	156.8	151.0	146.8	141.6	135.0	129.2	87.9	15.3	155°	0.0
191.3	186.6	181.5	177.3	171.1	163.7	158.3	150.3	143.7	94.3	14.8	157.5°	0.0
217.9	212.3	205.3	201.8	193.2	187.4	180.2	171.6	163.2	104.2	15.0	160°	0.0
246.7	240.7	235.3	228.6	220.8	214.3	207.5	198.3	187.8	122.9	16.1	162.5°	0.0
277.2	273.3	268.2	259.6	255.3	247.1	238.4	228.3	220.7	147.4	18.5	165°	0.0
321.6	317.4	316.8	308.3	301.8	294.4	287.6	279.2	270.2	190.7	24.3	167.5°	0.0
389.9	385.5	380.5	373.9	366.2	357.0	348.5	337.2	327.3	234.2	27.1	170°	0.0
430.4	422.2	413.2	403.2	392.0	380.5	369.2	354.8	340.2	236.8	24.4	172.5°	0.0
427.0	416.8	405.3	391.7	379.9	365.9	353.6	335.0	321.8	210.9	19.9	175°	0.0
414.3	400.4	389.6	377.1	362.4	349.7	336.8	318.5	303.4	193.4	18.2	177.5°	0.0
382.0	370.1	355.1	343.1	332.2	317.1	305.0	287.8	277.4	167.7	16.3	180°	0.0
305.3	288.9	276.2	266.9	254.5	240.9	230.1	215.7	206.4	111.0	14.1		
177.8	173.7	159.5	151.5	144.0	132.9	124.3	117.4	105.3	53.8	12.5		
54.8	51.0	50.5	42.9	45.3	38.8	37.7	34.3	34.3	20.7	9.8		
17.5	17.2	16.5	15.5	15.2	15.2	14.8	14.7	14.0	11.1	7.3		
12.4	12.1	11.9	11.6	11.4	11.5	11.2	11.0	10.8	8.0	5.8		
8.5	8.3	7.8	7.8	7.6	7.5	7.6	7.3	7.2	5.6	4.9		
5.8	5.7	5.6	5.5	5.5	5.4	5.3	5.0	4.9	3.9	3.4		
3.8	3.2	3.2	2.7	2.6	2.6	2.4	2.6	2.8	2.8	2.2		
0.9	0.8	0.9	0.9	0.7	0.8	0.8	0.6	0.6	0.9	0.8		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		



'226914
 ISW-AF-XXX-LED-E1-SL3-7030-XXB

REPORT NUMBER: P226914
 CATALOG NUMBER: ISW-AF-X

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	151.3	151.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	146.3	145.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	138.6	135.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	128.1	122.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	116.0	107.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	103.6	92.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	92.0	77.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	79.7	61.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	68.0	46.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	54.8	32.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	40.2	23.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	28.7	19.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	21.4	16.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	17.2	13.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	14.6	12.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	13.1	11.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	12.2	11.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	11.7	10.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	11.4	10.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	11.3	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	11.1	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	11.2	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	11.6	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	12.3	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	12.8	10.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	13.0	10.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	12.8	11.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	12.6	11.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	12.4	10.9
										70°	11.8	10.2
										72.5°	10.6	9.2
										75°	9.1	7.4
										77.5°	7.3	6.0
										80°	5.5	4.5
										82.5°	4.0	3.5
										85°	2.8	2.5
										87.5°	1.7	1.5
										90°	0.4	0.4
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



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XX-LED-E1-SL3-7030-XXB

tinued):

135°	145°	155°	165°	175°	180°
151.3	151.3	151.3	151.3	151.3	151.3
144.0	144.0	141.8	141.4	139.9	140.7
131.8	130.4	126.5	125.8	124.1	123.7
117.2	113.2	110.1	106.7	103.5	105.1
100.2	93.4	86.7	82.2	80.4	79.8
83.9	71.8	63.4	54.6	51.6	52.7
64.3	50.5	39.2	34.2	31.2	30.7
45.3	32.4	27.2	25.9	25.3	25.3
30.7	24.7	22.7	22.1	22.1	22.2
23.4	20.7	19.9	20.0	20.3	20.4
19.4	18.4	17.9	18.5	19.2	19.3
16.7	16.5	16.6	17.3	18.0	18.1
14.7	14.9	15.3	16.0	16.6	16.7
13.2	13.7	13.9	14.3	14.7	14.8
12.2	12.7	12.6	12.9	13.1	13.2
11.6	11.9	11.6	11.8	11.8	12.0
11.1	11.2	10.8	10.8	11.0	11.0
10.6	10.5	10.1	10.2	10.5	10.6
10.1	9.9	9.6	9.9	10.3	10.4
9.6	9.5	9.3	9.7	10.2	10.3
9.5	9.3	9.1	9.7	10.2	10.3
9.5	9.3	9.1	9.6	10.1	10.2
9.6	9.4	9.1	9.5	9.8	9.9
9.6	9.5	8.9	9.1	9.3	9.4
9.6	9.3	8.7	8.8	8.8	8.9
9.5	9.1	8.4	8.4	8.3	8.3
9.5	8.7	8.0	7.9	7.7	7.7
9.4	8.6	7.9	7.7	7.4	7.4
9.2	8.5	7.8	7.4	7.2	7.2
8.6	8.1	7.3	7.0	6.7	6.7
7.7	7.4	6.8	6.6	6.3	6.2
6.5	6.6	6.2	6.1	5.8	5.7
5.5	5.6	5.5	5.4	5.2	5.1
4.4	4.7	4.5	4.5	4.6	4.4
3.3	3.8	3.6	3.8	3.9	3.7
2.3	2.7	2.7	2.8	2.9	2.7
1.5	1.8	1.7	1.8	1.8	1.7
0.3	0.6	0.3	0.5	0.4	0.3
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0



-SL3-7030-XXB

145°	155°	165°	175°	180°
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

(END OF REPORT)