

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: P226910

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226910
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-XXB
Description: IMPACT ELITE LED WEDGE LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 643.6 lumens
Efficiency: N/A
Efficacy: 49.5 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

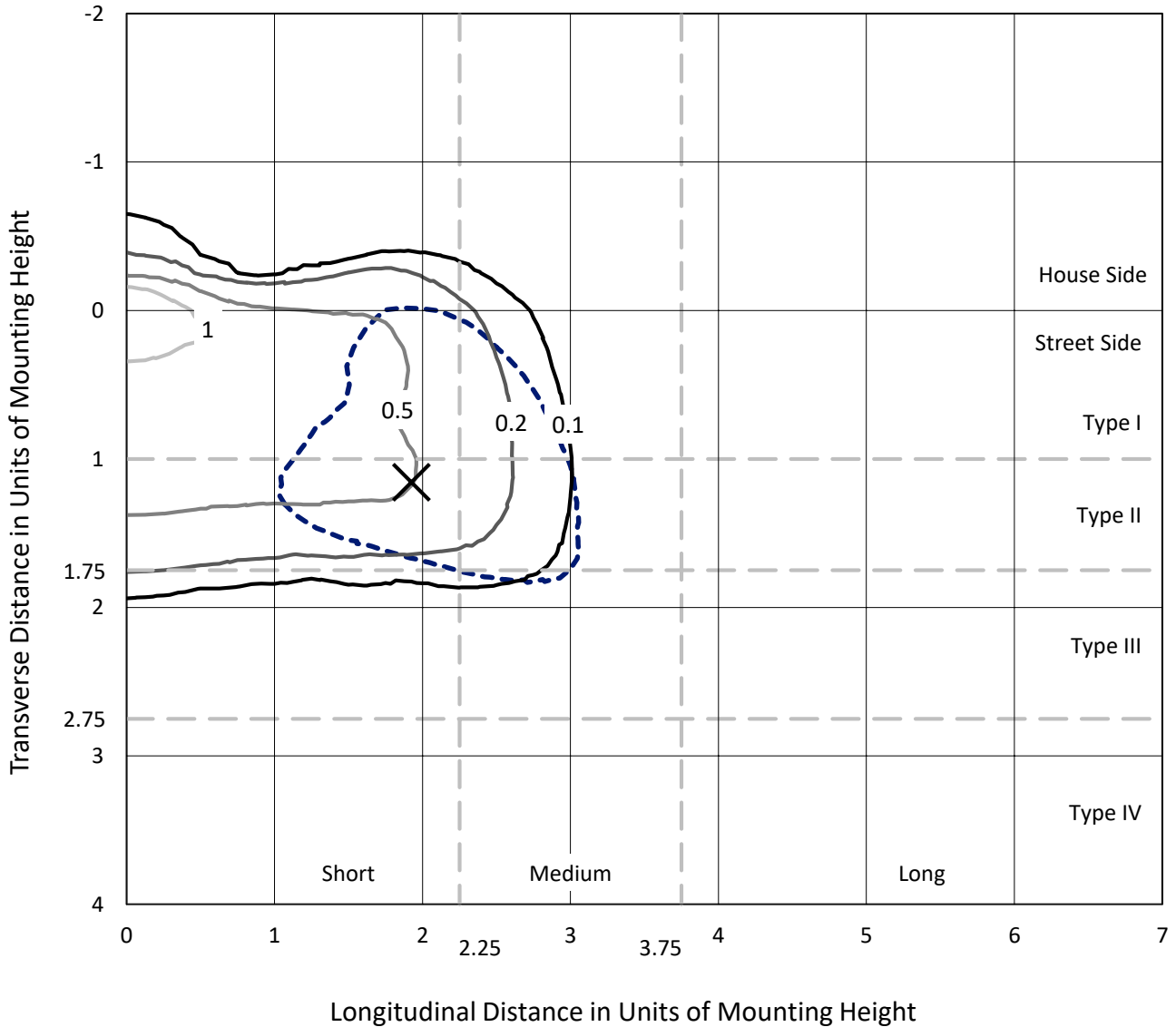
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

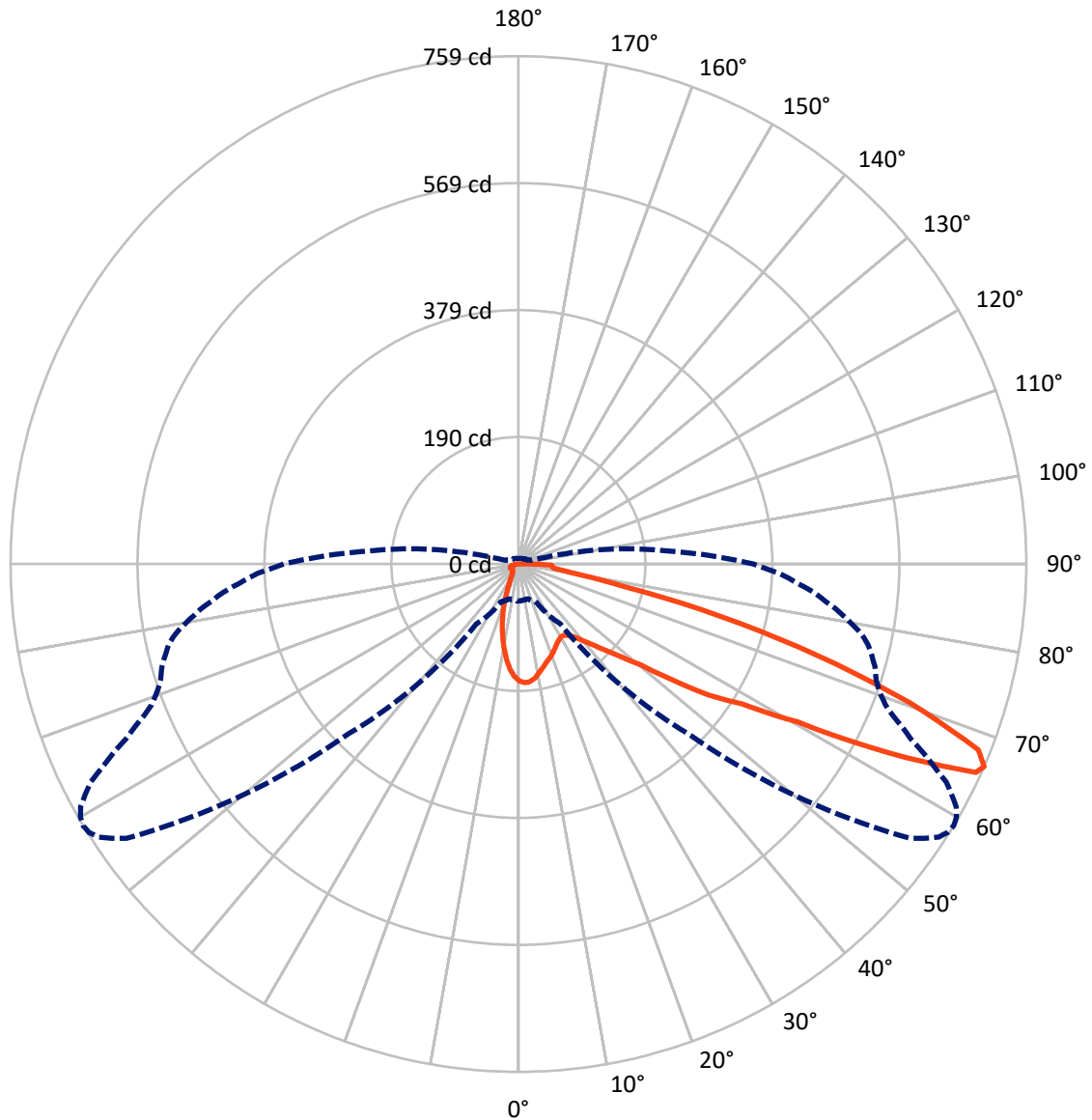
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 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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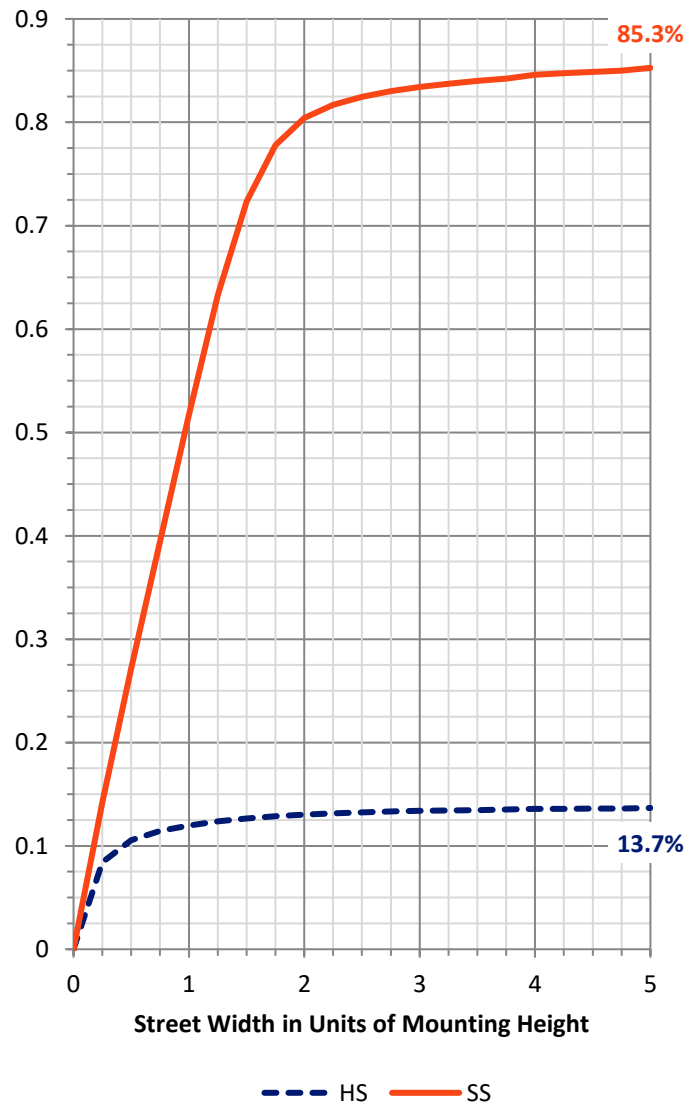
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	89.3	0.0	89.3
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	554.0	0.2	554.2
	% Fixture	86.1	0.0	86.1
Total	Lumens	643.3	0.3	643.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	2.3
10°-20°	31.5	4.9
20°-30°	39.5	6.1
30°-40°	54.0	8.4
40°-50°	86.9	13.5
50°-60°	151.0	23.5
60°-70°	183.5	28.5
70°-80°	68.5	10.6
80°-90°	13.5	2.1
90°-100°	0.3	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°	643.3	100.0
0°-180°	643.6	100.0



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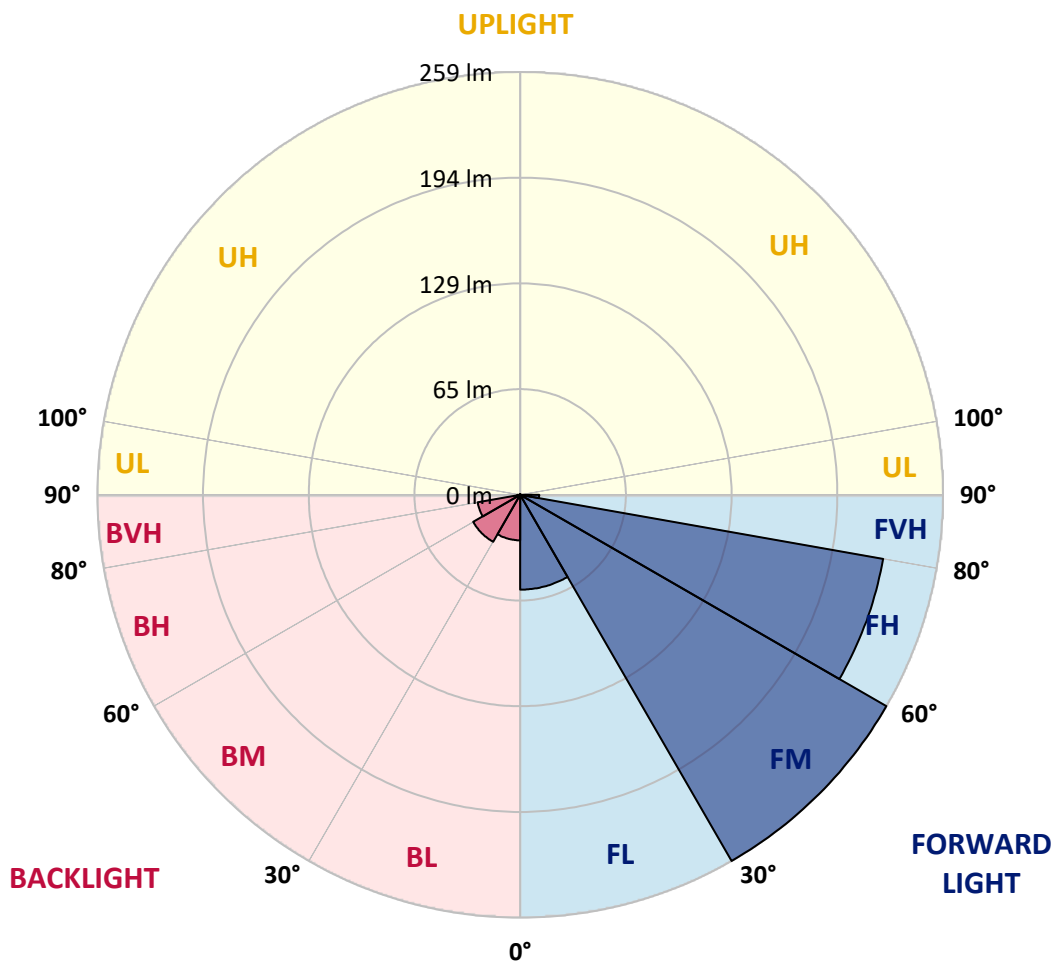
CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.0	9.0			
FM (30°-60°)	258.8	40.2			
FH (60°-80°)	225.6	35.0			G0/660
FVH (80°-90°)	11.6	1.8			G1/100
BL (0°-30°)	27.8	4.3	B0/110		
BM (30°-60°)	33.2	5.2	B0/220		
BH (60°-80°)	26.4	4.1	B0/110		G0/110
BVH (80°-90°)	1.8	0.3			G0/10
UL (90°-100°)	0.3	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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	179.4	178.8	179.8	179.4	179.7	178.3	178.0	177.7	177.9	177.6	177.6
5°	175.1	174.8	176.2	176.8	177.4	177.2	177.1	177.1	177.2	176.6	176.6
7.5°	162.8	162.5	164.3	165.5	168.4	170.1	172.3	172.4	172.6	172.3	172.9
10°	149.5	150.1	151.6	153.7	157.9	160.5	164.7	165.5	165.7	165.8	165.9
12.5°	136.9	136.3	138.2	142.2	147.9	152.0	157.2	157.6	158.1	158.9	159.6
15°	125.6	126.3	127.9	132.1	138.0	143.8	150.7	151.1	152.0	152.6	153.6
17.5°	117.9	117.9	119.7	123.6	129.2	136.6	145.2	145.9	146.6	147.4	148.5
20°	114.1	114.1	114.8	117.0	121.9	129.1	139.4	140.2	141.6	142.5	143.9
22.5°	113.8	113.6	113.5	114.1	117.0	122.5	133.3	134.4	135.5	137.0	138.2
25°	116.9	117.2	116.0	115.3	115.5	118.2	127.5	128.1	130.3	131.2	132.8
27.5°	121.4	121.9	121.0	119.8	118.0	116.3	122.5	123.6	125.0	126.5	128.5
30°	128.0	127.9	127.8	126.9	123.6	118.3	121.0	121.7	123.1	124.2	125.9
32.5°	134.9	135.7	136.4	136.0	132.4	123.6	123.2	123.8	124.9	125.6	126.6
35°	144.0	144.4	146.7	146.7	143.2	132.9	129.0	129.4	130.0	130.3	131.1
37.5°	154.1	155.4	158.8	160.7	155.2	144.5	138.1	138.1	138.4	138.6	139.1
40°	165.5	167.6	172.2	175.9	172.4	159.1	150.2	151.1	150.8	150.4	151.5
42.5°	179.0	181.2	186.8	190.4	188.2	176.6	166.3	165.7	166.6	165.5	165.8
45°	194.6	196.2	201.9	205.7	207.4	197.9	187.6	186.4	186.4	183.8	184.9
47.5°	208.6	209.1	214.6	221.2	226.7	226.8	212.3	211.4	209.6	207.9	207.5
50°	221.6	223.1	226.7	233.8	245.2	255.0	246.1	243.7	241.6	235.4	237.3
52.5°	244.2	247.0	249.3	253.7	267.1	287.1	298.1	294.2	293.7	288.1	286.8
55°	248.5	248.8	256.2	281.3	312.9	327.2	348.3	348.2	349.7	348.0	346.3
57.5°	228.5	226.2	238.7	271.7	335.1	409.2	402.7	403.5	401.4	396.0	394.2
60°	178.0	179.9	193.4	235.6	319.1	462.1	504.4	491.8	500.8	486.7	479.2
62.5°	100.1	97.9	107.1	151.4	261.8	464.8	642.8	644.2	648.6	640.7	622.1
65°	64.7	63.6	62.7	76.5	156.9	406.6	719.3	736.3	746.5	750.6	750.9
66°	55.5	54.7	53.7	62.6	109.4	358.2	714.4	732.6	748.8	756.5	758.7
67.5°	47.3	46.0	45.9	51.9	76.1	277.9	667.4	695.9	710.2	730.1	741.0
70°	36.1	35.5	37.3	44.8	58.4	130.8	531.8	569.0	593.7	609.3	619.3
72.5°	30.3	30.1	32.5	40.9	55.3	74.2	372.3	412.2	438.0	452.9	466.7
75°	23.6	23.8	27.1	39.1	55.0	64.7	216.3	254.4	269.3	292.9	310.8
77.5°	17.8	17.6	20.2	31.6	53.7	65.5	112.4	128.2	144.6	156.6	160.9
80°	12.5	12.6	14.4	21.7	41.8	67.4	70.1	73.8	77.1	81.0	81.8
82.5°	8.3	8.4	10.6	14.9	29.1	64.3	65.4	63.7	61.1	57.7	54.1
85°	5.0	5.2	7.6	10.0	22.5	58.2	67.7	63.2	59.2	54.7	50.3
87.5°	2.6	2.9	4.5	5.9	13.3	28.7	70.5	67.2	61.7	54.8	49.9
90°	0.7	0.7	1.0	1.4	2.7	5.8	17.8	16.0	8.0	15.2	7.5
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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CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-XXB

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°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	177.5	177.7	177.5	177.2	177.5	177.2	177.1	177.0	177.1	176.9	176.8
5°	176.6	176.8	176.8	176.3	176.2	176.6	175.9	176.2	175.9	175.7	175.3
7.5°	172.4	172.5	172.6	172.2	172.5	172.5	172.3	172.3	172.1	172.2	171.8
10°	166.4	166.8	167.3	167.0	166.9	167.9	167.5	167.8	167.8	167.5	167.6
12.5°	160.0	160.7	161.2	161.2	161.6	162.6	162.5	162.8	163.5	163.5	163.2
15°	154.2	154.8	155.6	156.2	157.0	157.6	158.1	159.0	159.4	159.4	159.9
17.5°	149.5	150.5	151.4	151.6	152.7	154.0	154.3	155.2	155.8	156.1	156.7
20°	145.0	146.0	147.1	148.1	149.0	150.5	151.2	151.7	152.7	153.3	154.3
22.5°	139.6	141.3	142.7	143.8	145.6	146.7	148.1	149.0	150.3	151.2	151.8
25°	134.6	136.9	138.7	139.9	142.2	143.8	145.6	147.0	148.5	149.8	150.8
27.5°	129.9	132.5	134.8	136.7	139.1	141.8	143.4	146.0	147.9	149.7	150.9
30°	127.7	129.8	132.2	134.4	136.9	140.2	143.0	146.1	148.6	150.9	152.6
32.5°	128.2	130.1	132.2	134.1	136.7	140.5	143.2	146.9	150.6	153.5	155.8
35°	132.1	133.9	135.2	137.0	139.2	142.1	145.2	148.9	153.5	157.4	160.4
37.5°	140.5	140.9	142.3	143.5	144.7	147.4	150.3	153.5	158.8	162.9	167.0
40°	150.7	151.9	153.2	153.9	155.2	156.9	158.1	161.6	166.2	171.7	176.3
42.5°	165.9	166.4	166.6	166.8	167.4	168.5	170.4	173.6	178.1	182.9	187.9
45°	183.1	183.7	184.3	184.6	183.9	184.6	186.6	188.0	192.5	197.0	203.5
47.5°	206.9	205.1	204.3	205.4	204.8	206.3	207.2	208.1	213.4	218.8	224.2
50°	237.4	236.3	235.0	235.0	236.1	235.1	235.7	239.0	240.7	245.3	252.5
52.5°	286.1	282.7	277.5	275.3	276.6	275.8	276.1	276.7	275.6	279.8	285.9
55°	346.3	342.0	338.5	336.6	329.3	328.7	323.9	322.0	318.2	322.2	320.9
57.5°	389.2	386.5	384.7	378.8	375.4	368.7	366.7	364.4	359.1	361.7	364.1
60°	472.1	462.3	458.9	448.6	445.1	438.6	430.5	426.5	423.7	426.3	424.6
62.5°	610.5	596.7	594.0	569.5	563.4	548.7	533.3	531.2	522.5	517.1	515.9
65°	745.5	725.9	711.2	684.4	666.1	645.1	621.6	604.5	586.8	577.9	566.1
66°	755.6	747.8	732.9	717.3	690.9	667.8	641.1	622.6	602.7	587.2	577.1
67.5°	738.5	734.3	729.1	718.4	701.8	680.3	655.0	631.4	607.5	589.1	573.1
70°	624.2	628.7	634.6	631.9	622.4	614.0	591.7	578.5	560.5	536.4	526.6
72.5°	471.2	483.2	479.2	463.5	456.2	450.4	442.3	433.4	407.6	404.7	393.1
75°	303.1	299.0	301.8	282.7	269.9	264.5	245.3	237.4	218.1	205.5	196.0
77.5°	159.8	151.8	145.8	129.1	117.1	110.1	100.8	89.7	72.7	71.7	56.3
80°	74.1	68.1	62.6	56.8	50.9	43.2	37.5	30.6	27.0	23.2	21.6
82.5°	50.3	46.4	43.1	39.3	34.8	29.5	25.5	21.6	18.4	16.6	15.1
85°	45.6	41.4	37.6	32.8	28.2	23.7	19.4	16.1	13.1	11.5	10.4
87.5°	44.3	39.2	35.2	30.0	25.5	20.9	16.8	13.0	10.1	8.3	7.1
90°	5.6	6.0	4.3	4.2	1.7	2.3	1.6	1.0	1.1	0.8	0.9
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: P226910

CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-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: P226910

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

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8
2.5°	176.6	176.4	176.6	176.6	176.2	176.3	176.4	175.9	175.7	175.7	175.6
5°	175.0	174.8	175.0	174.9	174.3	174.2	174.2	173.9	173.6	173.3	173.1
7.5°	171.2	171.4	171.3	171.0	170.8	170.8	170.5	169.8	169.4	169.0	168.6
10°	167.0	167.0	167.2	167.0	166.5	166.3	165.9	165.5	165.6	164.7	163.9
12.5°	163.3	163.3	163.2	163.0	162.8	162.6	162.6	161.4	161.1	160.8	159.9
15°	159.8	159.9	159.9	159.9	159.5	159.5	159.0	158.1	158.1	157.2	156.4
17.5°	157.0	157.2	157.1	157.2	157.3	156.8	155.9	155.4	154.8	154.4	153.1
20°	154.6	154.8	154.9	154.9	154.6	154.3	153.4	152.6	152.2	151.3	149.8
22.5°	152.4	152.8	152.9	152.9	152.5	152.2	151.5	150.3	149.5	148.3	146.9
25°	151.6	152.0	151.7	151.9	151.6	150.9	149.8	148.8	147.6	146.1	144.6
27.5°	151.8	152.5	152.3	152.2	151.7	151.3	149.9	148.7	147.3	145.6	143.6
30°	153.6	154.8	154.4	154.0	153.9	152.6	151.4	149.7	148.1	146.0	143.8
32.5°	157.0	157.5	157.6	157.3	156.9	155.9	154.2	151.9	150.2	147.7	145.2
35°	162.5	163.1	162.9	162.9	162.4	160.8	158.7	156.5	154.1	151.3	148.6
37.5°	170.2	171.2	171.0	170.7	170.1	168.3	166.5	163.9	161.1	157.4	154.4
40°	179.8	181.6	183.0	182.7	181.4	179.6	178.1	175.0	172.3	168.3	164.9
42.5°	192.9	195.2	197.0	198.5	197.8	195.7	192.9	191.6	187.7	183.5	180.0
45°	209.6	214.3	215.9	217.7	217.7	216.3	215.6	213.1	209.0	203.5	200.2
47.5°	231.6	237.8	239.8	242.6	244.3	242.8	241.7	237.4	234.7	227.0	226.3
50°	258.3	264.6	269.8	273.1	272.6	273.9	271.3	268.8	265.0	258.8	256.7
52.5°	292.5	297.5	302.1	304.1	306.2	305.9	305.2	303.6	298.8	295.4	289.9
55°	327.4	331.6	337.3	340.5	343.2	342.7	340.4	336.3	337.3	330.2	327.1
57.5°	367.3	371.8	378.0	381.0	382.3	388.2	386.8	386.3	384.6	382.2	379.0
60°	435.9	437.2	442.2	449.9	459.4	457.6	459.9	461.5	462.7	457.2	456.7
62.5°	517.6	519.1	523.5	525.1	526.5	526.7	523.5	523.5	518.1	511.0	505.4
65°	562.2	558.9	556.0	554.3	550.7	547.4	542.7	536.2	527.0	516.1	506.3
66°	568.7	562.0	558.1	553.9	548.1	542.1	536.4	527.6	516.9	503.9	490.9
67.5°	562.4	553.3	544.3	538.2	530.0	519.1	509.3	499.1	488.9	471.1	458.9
70°	505.6	494.8	485.0	471.4	458.5	447.8	430.9	413.1	398.3	379.6	367.6
72.5°	375.5	362.7	349.8	330.7	312.1	309.3	288.0	267.0	255.7	240.6	228.5
75°	185.5	169.3	146.3	136.1	121.1	113.9	109.9	94.6	90.9	76.1	75.9
77.5°	52.4	45.0	40.0	34.8	32.6	31.1	25.7	24.6	22.3	21.9	20.7
80°	19.8	18.7	18.2	17.8	17.3	17.0	16.8	16.0	15.5	15.0	14.7
82.5°	14.3	13.9	13.0	12.7	12.4	11.8	11.7	11.2	10.8	10.2	10.0
85°	9.7	9.2	8.7	8.2	8.0	7.9	7.6	7.4	7.2	7.0	6.9
87.5°	6.5	6.0	5.4	5.2	5.1	5.2	5.3	5.1	5.0	4.8	4.7
90°	0.8	1.1	1.0	1.0	1.2	1.0	1.0	1.1	1.0	1.0	0.9
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: P226910
 CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-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: P226910
 NUMBER: ISW-AF-XXX-LED-E1-SL3-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):											CANDELA DISTRIBUTION	
82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		82°
174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	174.8	110°	0.0
175.4	175.1	175.2	174.8	174.7	174.9	175.0	175.0	174.7	173.0	170.9	112.5°	0.0
172.9	172.3	172.2	171.9	171.3	172.0	171.7	171.1	170.6	168.5	164.5	115°	0.0
168.2	167.8	167.3	166.8	166.5	166.3	166.2	165.7	164.7	160.8	154.1	117.5°	0.0
163.6	163.1	162.5	161.6	161.2	160.6	160.6	159.5	158.7	153.9	143.7	120°	0.0
159.2	158.3	157.9	157.3	156.3	155.8	155.1	154.0	152.7	146.9	133.7	122.5°	0.0
155.8	154.9	153.6	153.2	152.0	151.0	150.1	148.5	147.2	139.5	123.2	125°	0.0
152.1	151.5	150.1	149.1	147.9	146.6	145.2	143.2	142.3	132.5	113.0	127.5°	0.0
149.1	147.6	146.0	145.3	143.6	142.2	140.7	138.3	136.6	125.6	102.4	130°	0.0
145.8	144.3	142.7	141.3	139.1	137.5	135.7	133.3	131.1	118.6	91.7	132.5°	0.0
143.3	141.4	139.6	138.0	135.5	133.6	131.2	128.6	126.4	111.9	79.8	135°	0.0
142.0	140.0	137.7	135.7	132.9	130.6	128.1	125.1	122.3	106.5	68.6	137.5°	0.0
141.6	139.2	136.9	134.4	131.4	128.6	125.5	122.5	119.0	101.3	56.6	140°	0.0
142.8	139.9	137.3	134.3	130.8	127.6	124.5	120.7	117.1	96.7	44.6	142.5°	0.0
146.0	142.6	139.5	136.3	132.3	128.8	125.1	120.8	116.8	93.5	34.2	145°	0.0
151.2	147.9	144.3	141.1	136.6	132.6	128.6	123.9	119.2	92.3	25.8	147.5°	0.0
161.5	157.1	153.5	150.1	144.8	140.8	136.2	130.5	125.2	93.4	21.5	150°	0.0
176.0	170.6	167.3	164.2	157.6	153.2	147.9	141.5	135.4	96.8	18.9	152.5°	0.0
196.1	191.9	185.9	181.2	174.5	169.6	163.7	156.0	149.2	101.5	17.7	155°	0.0
221.2	215.6	209.8	204.9	197.7	189.1	182.9	173.7	166.0	108.9	17.1	157.5°	0.0
251.7	245.3	237.3	233.2	223.3	216.6	208.3	198.4	188.6	120.4	17.4	160°	0.0
285.1	278.1	271.9	264.2	255.1	247.7	239.8	229.2	217.1	142.1	18.5	162.5°	0.0
320.4	315.8	310.0	299.9	295.0	285.5	275.5	263.8	255.0	170.3	21.4	165°	0.0
371.6	366.7	366.0	356.3	348.8	340.2	332.4	322.6	312.3	220.4	28.1	167.5°	0.0
450.6	445.5	439.7	432.1	423.2	412.6	402.7	389.7	378.2	270.7	31.3	170°	0.0
497.4	487.9	477.4	465.9	453.0	439.8	426.7	410.0	393.2	273.7	28.2	172.5°	0.0
493.5	481.7	468.4	452.7	439.1	422.8	408.7	387.2	371.8	243.7	23.0	175°	0.0
478.8	462.8	450.2	435.8	418.7	404.2	389.2	368.1	350.6	223.5	21.0	177.5°	0.0
441.4	427.7	410.3	396.5	383.9	366.4	352.4	332.6	320.6	193.7	18.8	180°	0.0
352.8	333.9	319.2	308.4	294.1	278.3	265.9	249.2	238.6	128.3	16.3		
205.5	200.8	184.3	175.0	166.3	153.5	143.6	135.6	121.6	62.2	14.4		
63.3	58.9	58.3	49.5	52.4	44.8	43.6	39.7	39.7	23.8	11.4		
20.3	19.8	19.0	18.0	17.6	17.6	17.1	17.0	16.2	12.8	8.5		
14.3	14.0	13.7	13.4	13.2	13.3	12.9	12.7	12.5	9.3	6.8		
9.8	9.6	9.0	9.0	8.8	8.7	8.8	8.4	8.3	6.5	5.6		
6.8	6.6	6.5	6.4	6.3	6.2	6.1	5.8	5.6	4.5	4.0		
4.4	3.8	3.7	3.2	3.1	3.0	2.8	3.0	3.3	3.3	2.6		
1.0	0.9	1.0	1.0	0.8	0.9	0.9	0.7	0.7	1.0	0.9		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226910
 ISW-AF-XXX-LED-E1-SL3-XXB

REPORT NUMBER: P226910
 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°	174.8	174.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	169.1	167.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	160.1	156.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	148.0	141.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	134.1	124.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	119.7	107.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	106.3	89.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	92.2	71.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	78.7	53.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	63.3	37.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	46.4	27.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	33.1	21.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	24.8	18.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	19.8	16.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	16.9	14.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	15.1	13.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	14.1	13.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	13.5	12.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	13.2	12.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	13.0	11.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	12.8	11.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	12.9	12.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	13.4	12.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	14.2	12.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	14.8	12.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	15.0	12.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	14.8	12.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	14.6	12.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	14.3	12.6
										70°	13.6	11.9
										72.5°	12.3	10.6
										75°	10.4	8.6
										77.5°	8.5	7.0
										80°	6.3	5.2
										82.5°	4.6	4.1
										85°	3.3	2.9
										87.5°	1.9	1.7
										90°	0.5	0.5
										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-XXB

tinued):

135°	145°	155°	165°	175°	180°
174.8	174.8	174.8	174.8	174.8	174.8
166.4	166.3	163.9	163.4	161.7	162.6
152.3	150.7	146.2	145.4	143.4	143.0
135.4	130.8	127.3	123.4	119.6	121.4
115.7	107.9	100.1	95.0	93.0	92.3
97.0	83.0	73.2	63.1	59.6	60.9
74.3	58.3	45.3	39.5	36.1	35.5
52.4	37.4	31.4	29.9	29.2	29.2
35.5	28.5	26.3	25.6	25.6	25.7
27.0	23.9	23.0	23.1	23.5	23.6
22.4	21.2	20.8	21.4	22.2	22.3
19.3	19.0	19.1	20.0	20.9	20.9
17.0	17.3	17.7	18.4	19.1	19.3
15.3	15.8	16.1	16.6	17.0	17.1
14.1	14.7	14.6	14.9	15.2	15.3
13.4	13.7	13.4	13.6	13.6	13.8
12.8	12.9	12.5	12.5	12.7	12.7
12.3	12.2	11.7	11.9	12.2	12.3
11.7	11.5	11.0	11.5	12.0	12.1
11.2	10.9	10.7	11.3	11.9	12.0
10.9	10.7	10.5	11.3	11.9	12.0
10.9	10.7	10.5	11.0	11.7	11.8
11.0	10.8	10.4	10.9	11.4	11.5
11.2	10.9	10.2	10.5	10.7	10.8
11.2	10.7	10.0	10.1	10.1	10.2
10.9	10.4	9.7	9.7	9.6	9.6
10.9	10.0	9.3	9.1	8.9	8.9
10.8	9.9	9.2	8.9	8.6	8.6
10.6	9.7	9.0	8.6	8.3	8.3
9.9	9.4	8.5	8.1	7.8	7.7
8.9	8.6	7.9	7.6	7.3	7.2
7.5	7.6	7.2	7.0	6.8	6.6
6.3	6.5	6.3	6.2	6.0	5.9
5.0	5.4	5.2	5.2	5.3	5.1
3.9	4.3	4.2	4.3	4.5	4.2
2.7	3.2	3.2	3.3	3.4	3.2
1.6	2.0	1.9	2.0	2.0	1.9
0.4	0.7	0.4	0.6	0.5	0.4
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
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

