

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: P226911

Luminaire Tested: **ISW-AF-XXX-LED-E1-SL3-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226911
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-SL3-8030-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, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 513.4 lumens
Efficiency: N/A
Efficacy: 39.5 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 - G0

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

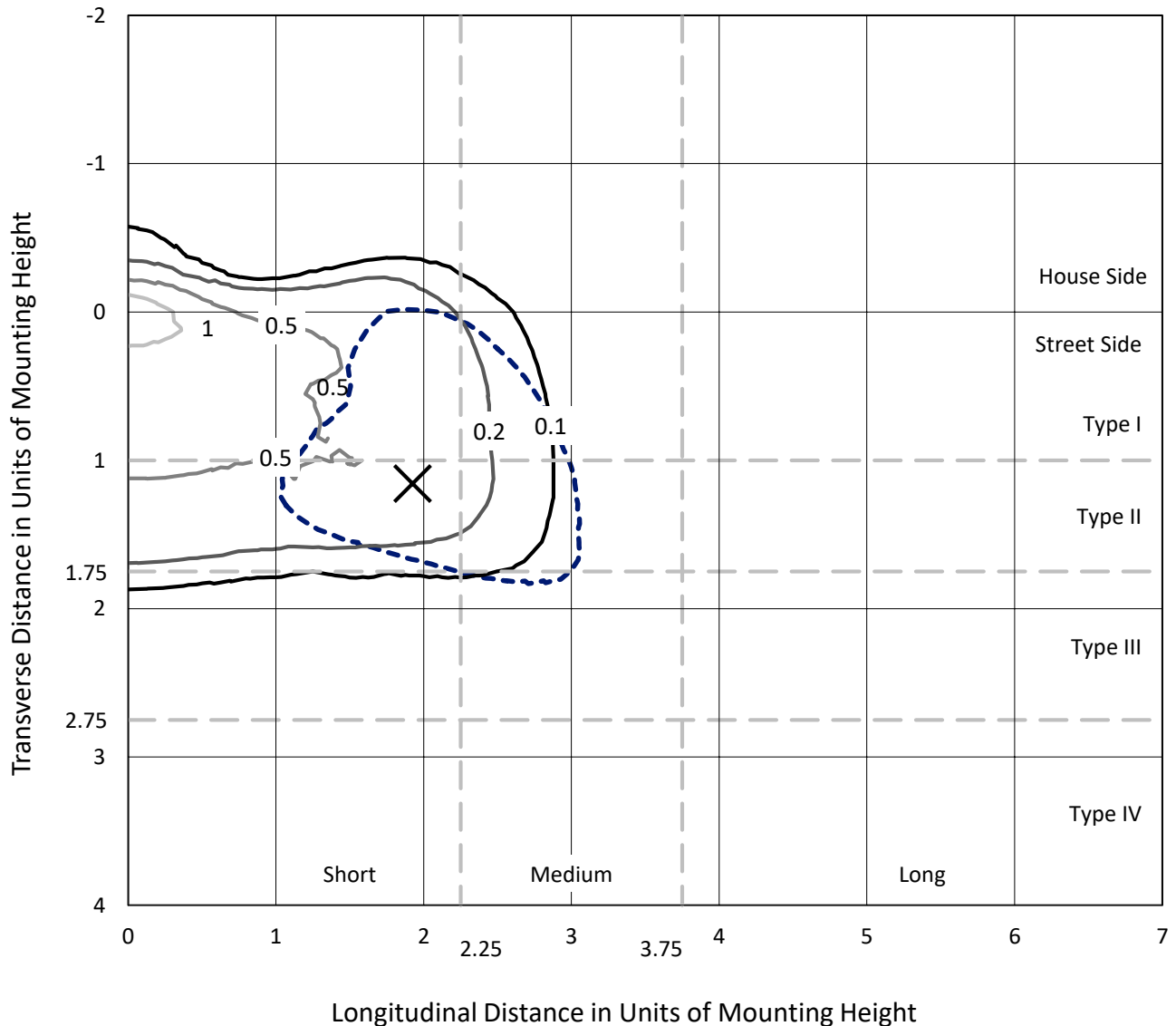


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

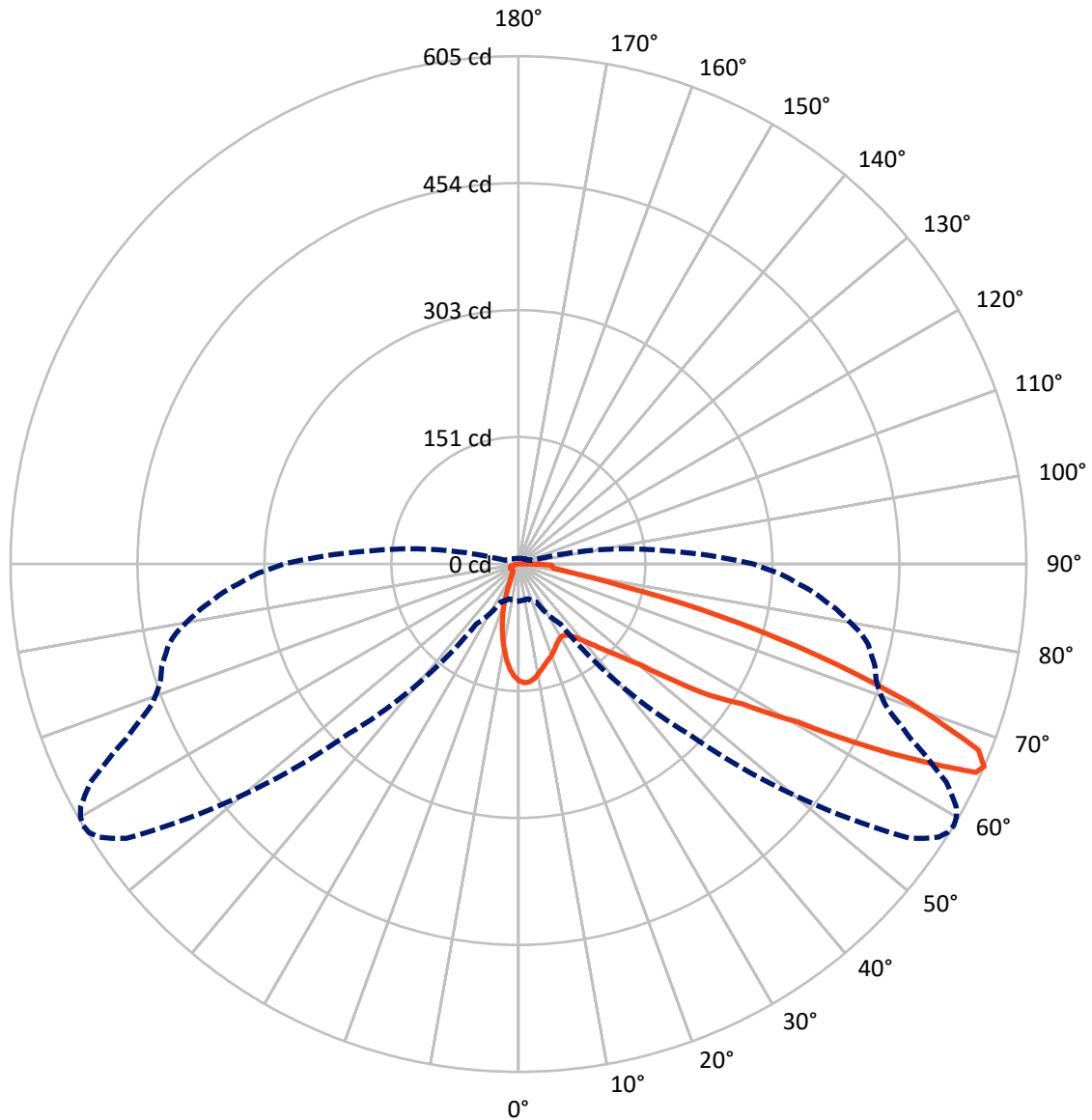


Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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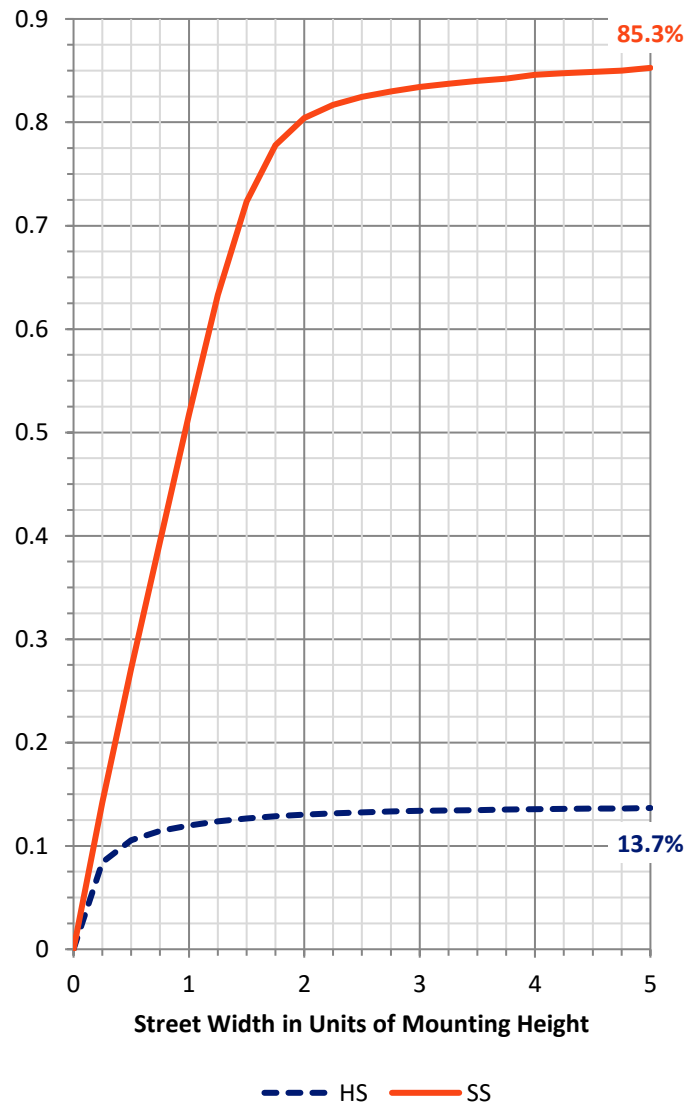
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.2	0.0	71.3
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	441.9	0.2	442.1
	% Fixture	86.1	0.0	86.1
Total	Lumens	513.1	0.2	513.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	2.3
10°-20°	25.1	4.9
20°-30°	31.5	6.1
30°-40°	43.1	8.4
40°-50°	69.3	13.5
50°-60°	120.5	23.5
60°-70°	146.4	28.5
70°-80°	54.6	10.6
80°-90°	10.7	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°	513.1	100.0
0°-180°	513.4	100.0



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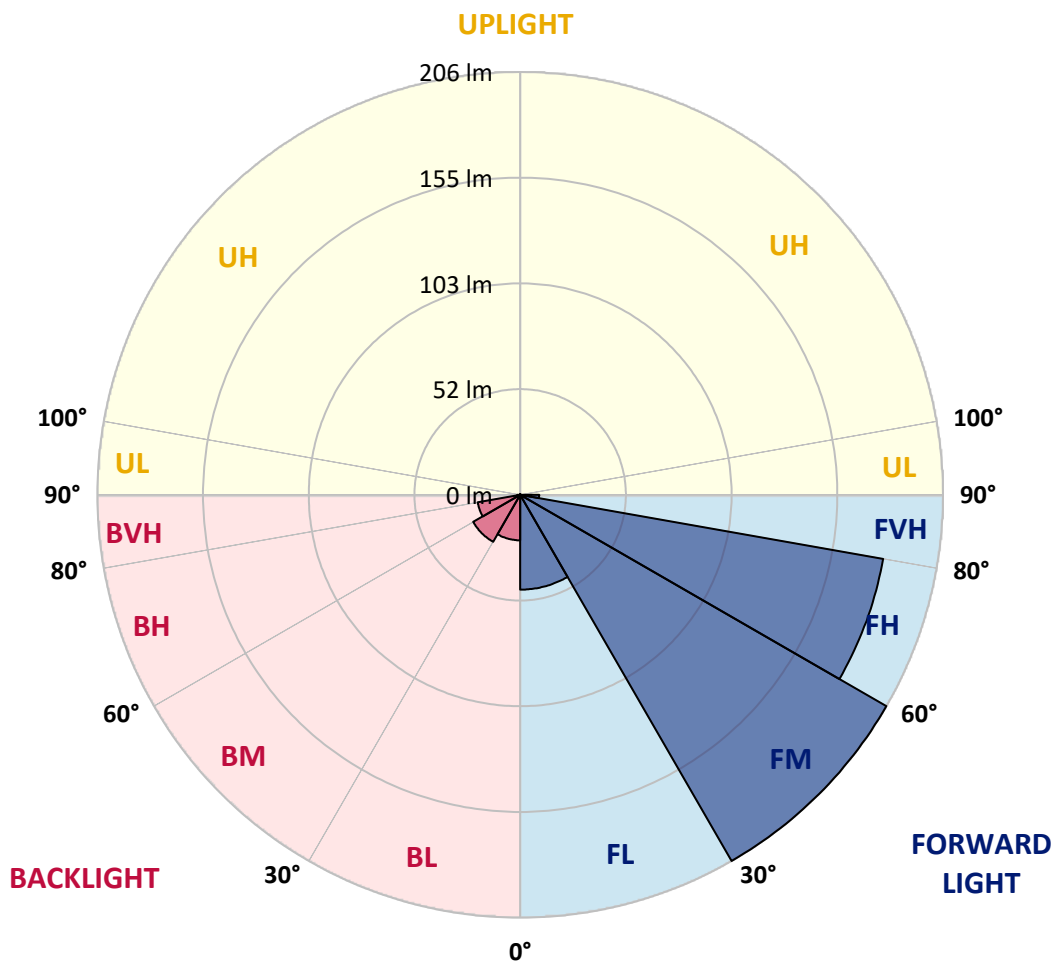
CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	46.3	9.0			
FM	(30°-60°)	206.4	40.2			
FH	(60°-80°)	179.9	35.0			G0/660
FVH	(80°-90°)	9.3	1.8			G0/10
BL	(0°-30°)	22.2	4.3	B0/110		
BM	(30°-60°)	26.5	5.2	B0/220		
BH	(60°-80°)	21.1	4.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
2.5°	143.1	142.6	143.5	143.2	143.4	142.2	142.0	141.7	141.9	141.7	141.7
5°	139.7	139.5	140.5	141.0	141.5	141.4	141.3	141.3	141.4	140.8	140.9
7.5°	129.8	129.6	131.0	132.1	134.3	135.7	137.4	137.5	137.7	137.4	137.9
10°	119.2	119.7	121.0	122.6	126.0	128.1	131.4	132.0	132.2	132.3	132.4
12.5°	109.2	108.7	110.3	113.4	118.0	121.3	125.5	125.8	126.2	126.7	127.3
15°	100.2	100.7	102.0	105.3	110.1	114.8	120.2	120.5	121.3	121.8	122.5
17.5°	94.1	94.1	95.5	98.5	103.0	108.9	115.8	116.3	117.0	117.6	118.5
20°	91.0	91.0	91.5	93.3	97.3	102.9	111.2	111.8	112.9	113.7	114.8
22.5°	90.7	90.7	90.6	91.0	93.3	97.8	106.3	107.2	108.1	109.2	110.3
25°	93.3	93.5	92.6	91.9	92.2	94.2	101.7	102.2	104.0	104.7	105.9
27.5°	96.9	97.3	96.5	95.5	94.1	92.8	97.8	98.5	99.7	100.9	102.5
30°	102.1	102.0	101.9	101.3	98.5	94.4	96.6	97.1	98.1	99.1	100.4
32.5°	107.7	108.3	108.8	108.5	105.6	98.5	98.2	98.7	99.6	100.2	101.1
35°	114.9	115.2	117.0	117.0	114.2	106.0	102.9	103.3	103.7	104.0	104.6
37.5°	122.9	124.0	126.6	128.2	123.8	115.3	110.2	110.2	110.4	110.6	111.0
40°	132.1	133.6	137.3	140.3	137.5	126.9	119.8	120.5	120.3	119.9	120.8
42.5°	142.8	144.5	149.0	151.8	150.2	140.8	132.7	132.2	132.9	132.0	132.3
45°	155.2	156.5	161.1	164.1	165.4	157.9	149.6	148.7	148.7	146.6	147.5
47.5°	166.4	166.8	171.2	176.5	180.8	180.9	169.3	168.7	167.2	165.8	165.5
50°	176.8	178.0	180.8	186.5	195.6	203.5	196.4	194.4	192.7	187.8	189.3
52.5°	194.8	197.1	198.9	202.4	213.1	229.0	237.8	234.7	234.3	229.8	228.8
55°	198.2	198.4	204.4	224.4	249.6	261.1	277.8	277.8	279.0	277.6	276.3
57.5°	182.3	180.4	190.4	216.8	267.4	326.4	321.3	321.8	320.2	315.8	314.5
60°	142.0	143.6	154.3	187.9	254.5	368.6	402.3	392.3	399.5	388.3	382.2
62.5°	79.9	78.1	85.4	120.7	208.8	370.8	512.8	513.9	517.3	511.0	496.2
65°	51.6	50.8	50.1	61.1	125.1	324.3	573.8	587.4	595.5	598.8	599.0
66°	44.3	43.7	42.8	50.0	87.2	285.8	569.9	584.4	597.3	603.4	605.2
67.5°	37.7	36.8	36.6	41.4	60.7	221.7	532.4	555.1	566.5	582.4	591.1
70°	28.8	28.3	29.8	35.7	46.6	104.4	424.2	453.9	473.6	486.0	494.0
72.5°	24.2	24.0	26.0	32.7	44.2	59.2	297.0	328.8	349.4	361.3	372.3
75°	18.9	19.0	21.6	31.2	43.9	51.6	172.5	202.9	214.9	233.6	247.9
77.5°	14.2	14.0	16.1	25.2	42.8	52.3	89.6	102.2	115.4	124.9	128.4
80°	9.9	10.1	11.5	17.3	33.4	53.8	55.9	58.8	61.5	64.6	65.2
82.5°	6.6	6.7	8.5	11.9	23.1	51.3	52.2	50.8	48.7	46.0	43.1
85°	4.0	4.2	6.1	8.0	17.9	46.4	54.0	50.5	47.2	43.7	40.1
87.5°	2.0	2.3	3.6	4.7	10.6	22.9	56.2	53.6	49.2	43.8	39.8
90°	0.6	0.6	0.8	1.2	2.1	4.6	14.2	12.8	6.4	12.1	6.0
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°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
2.5°	141.6	141.7	141.6	141.4	141.6	141.4	141.3	141.2	141.3	141.1	141.0
5°	140.9	141.0	141.0	140.6	140.5	140.8	140.3	140.5	140.3	140.2	139.9
7.5°	137.5	137.6	137.7	137.3	137.6	137.6	137.4	137.4	137.3	137.3	137.0
10°	132.8	133.1	133.4	133.2	133.2	133.9	133.6	133.8	133.8	133.6	133.6
12.5°	127.7	128.2	128.6	128.6	128.9	129.7	129.6	129.8	130.4	130.4	130.2
15°	122.9	123.5	124.1	124.6	125.2	125.8	126.2	126.8	127.1	127.1	127.5
17.5°	119.2	120.0	120.7	121.0	121.8	122.8	123.0	123.8	124.3	124.5	125.0
20°	115.6	116.5	117.3	118.1	118.9	120.0	120.6	121.0	121.8	122.3	123.0
22.5°	111.4	112.7	113.8	114.8	116.1	117.0	118.1	118.9	119.9	120.6	121.1
25°	107.4	109.2	110.7	111.6	113.4	114.8	116.1	117.3	118.5	119.5	120.3
27.5°	103.7	105.7	107.5	109.0	111.0	113.1	114.4	116.4	118.0	119.4	120.3
30°	101.8	103.6	105.5	107.2	109.2	111.8	114.0	116.6	118.5	120.3	121.8
32.5°	102.2	103.8	105.5	107.0	109.0	112.0	114.3	117.2	120.1	122.5	124.3
35°	105.4	106.8	107.9	109.2	111.1	113.3	115.8	118.8	122.5	125.6	128.0
37.5°	112.0	112.4	113.5	114.5	115.5	117.6	119.9	122.5	126.6	129.9	133.2
40°	120.2	121.2	122.2	122.7	123.8	125.1	126.2	128.9	132.6	136.9	140.6
42.5°	132.4	132.8	132.9	133.1	133.5	134.4	135.9	138.4	142.1	145.9	149.9
45°	146.1	146.5	147.0	147.3	146.7	147.3	148.8	150.0	153.6	157.2	162.3
47.5°	165.0	163.6	162.9	163.9	163.4	164.6	165.3	166.0	170.2	174.6	178.9
50°	189.4	188.5	187.4	187.5	188.3	187.6	188.0	190.6	192.0	195.7	201.4
52.5°	228.2	225.6	221.4	219.6	220.6	220.0	220.2	220.8	219.8	223.2	228.1
55°	276.3	272.8	270.0	268.5	262.6	262.2	258.3	256.9	253.8	257.1	255.9
57.5°	310.5	308.3	306.9	302.1	299.5	294.1	292.5	290.7	286.4	288.5	290.4
60°	376.6	368.7	366.1	357.8	355.0	349.9	343.4	340.2	338.0	340.0	338.7
62.5°	486.9	476.0	473.9	454.3	449.5	437.7	425.4	423.7	416.8	412.5	411.5
65°	594.7	579.0	567.3	545.9	531.4	514.6	495.8	482.1	468.1	461.0	451.6
66°	602.7	596.5	584.7	572.2	551.1	532.7	511.4	496.6	480.8	468.4	460.3
67.5°	589.0	585.7	581.6	573.1	559.8	542.7	522.5	503.6	484.6	469.9	457.1
70°	497.9	501.5	506.2	504.0	496.5	489.8	472.0	461.4	447.1	427.9	420.0
72.5°	375.8	385.5	382.2	369.8	363.9	359.3	352.8	345.8	325.2	322.8	313.6
75°	241.8	238.6	240.7	225.6	215.3	211.0	195.7	189.4	173.9	163.9	156.3
77.5°	127.4	121.1	116.2	102.9	93.4	87.8	80.4	71.5	58.0	57.2	44.9
80°	59.1	54.3	49.9	45.3	40.6	34.5	29.9	24.4	21.6	18.5	17.2
82.5°	40.1	37.1	34.4	31.3	27.8	23.5	20.3	17.2	14.7	13.2	12.0
85°	36.4	33.1	30.1	26.2	22.5	19.0	15.5	12.8	10.5	9.1	8.3
87.5°	35.3	31.2	28.1	23.9	20.3	16.7	13.4	10.4	8.1	6.6	5.7
90°	4.5	4.8	3.5	3.3	1.4	1.8	1.3	0.8	0.9	0.6	0.7
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: P226911

CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-8030-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: P226911

CATALOG NUMBER: ISW-AF-XXX-LED-E1-SL3-8030-XXB

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5
2.5°	140.9	140.6	140.9	140.8	140.5	140.6	140.6	140.3	140.2	140.2	140.1
5°	139.6	139.5	139.6	139.5	139.1	139.0	139.0	138.8	138.4	138.2	138.0
7.5°	136.6	136.8	136.7	136.5	136.2	136.2	136.0	135.5	135.1	134.8	134.5
10°	133.2	133.2	133.3	133.2	132.9	132.7	132.4	132.1	132.1	131.4	130.7
12.5°	130.3	130.3	130.2	130.0	129.8	129.7	129.7	128.8	128.5	128.3	127.6
15°	127.4	127.6	127.6	127.6	127.2	127.2	126.8	126.2	126.2	125.5	124.7
17.5°	125.2	125.5	125.4	125.5	125.5	125.1	124.4	124.0	123.5	123.1	122.2
20°	123.3	123.5	123.6	123.6	123.3	123.0	122.4	121.8	121.4	120.7	119.5
22.5°	121.6	121.9	122.0	122.0	121.7	121.4	120.8	119.9	119.2	118.3	117.2
25°	120.9	121.3	121.0	121.2	120.9	120.3	119.5	118.7	117.7	116.6	115.4
27.5°	121.1	121.7	121.5	121.4	121.0	120.7	119.6	118.6	117.5	116.1	114.6
30°	122.5	123.5	123.1	122.8	122.7	121.8	120.7	119.4	118.1	116.5	114.8
32.5°	125.2	125.7	125.8	125.5	125.1	124.4	122.9	121.2	119.8	117.8	115.8
35°	129.6	130.1	129.9	129.9	129.5	128.3	126.6	124.8	122.9	120.7	118.5
37.5°	135.8	136.6	136.5	136.2	135.7	134.2	132.9	130.7	128.5	125.6	123.2
40°	143.5	144.8	146.0	145.8	144.7	143.3	142.1	139.6	137.4	134.2	131.5
42.5°	153.9	155.7	157.2	158.3	157.8	156.1	153.9	152.8	149.7	146.4	143.6
45°	167.2	170.9	172.3	173.6	173.6	172.5	172.0	170.0	166.7	162.3	159.7
47.5°	184.7	189.8	191.3	193.5	194.9	193.7	192.8	189.4	187.2	181.1	180.5
50°	206.1	211.1	215.2	217.9	217.5	218.5	216.4	214.5	211.4	206.4	204.7
52.5°	233.3	237.3	241.0	242.6	244.2	244.0	243.5	242.2	238.3	235.6	231.2
55°	261.2	264.5	269.0	271.6	273.7	273.3	271.5	268.3	269.0	263.4	261.0
57.5°	293.0	296.6	301.5	304.0	304.9	309.7	308.5	308.1	306.8	304.8	302.3
60°	347.7	348.7	352.8	358.9	366.5	365.0	366.8	368.1	369.0	364.6	364.3
62.5°	412.9	414.1	417.6	418.9	420.0	420.1	417.6	417.6	413.3	407.6	403.2
65°	448.5	445.9	443.5	442.2	439.3	436.7	432.9	427.8	420.4	411.7	403.8
66°	453.6	448.3	445.2	441.9	437.2	432.4	427.9	420.9	412.3	401.9	391.6
67.5°	448.6	441.4	434.2	429.3	422.8	414.1	406.3	398.1	390.0	375.7	366.1
70°	403.4	394.7	386.8	376.0	365.7	357.2	343.7	329.5	317.7	302.8	293.3
72.5°	299.6	289.3	279.1	263.8	248.9	246.7	229.7	213.0	204.0	192.0	182.3
75°	148.0	135.1	116.7	108.5	96.7	90.8	87.6	75.5	72.6	60.7	60.5
77.5°	41.8	35.9	31.9	27.8	26.1	24.8	20.5	19.6	17.8	17.5	16.4
80°	15.8	15.0	14.6	14.2	13.8	13.5	13.4	12.8	12.4	12.0	11.7
82.5°	11.4	11.1	10.4	10.2	9.8	9.4	9.3	8.9	8.7	8.2	8.0
85°	7.7	7.3	6.9	6.5	6.4	6.3	6.1	5.9	5.7	5.5	5.4
87.5°	5.2	4.8	4.3	4.2	4.1	4.2	4.3	4.1	4.0	3.9	3.8
90°	0.6	0.9	0.8	0.8	0.9	0.8	0.8	0.9	0.8	0.8	0.7
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: P226911
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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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION:

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	82°	
139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	110°	0.0
139.9	139.7	139.8	139.5	139.4	139.5	139.6	139.6	139.4	138.0	136.3	136.3	112.5°	0.0
137.9	137.4	137.3	137.1	136.7	137.2	136.9	136.6	136.1	134.4	131.2	131.2	115°	0.0
134.1	133.8	133.4	133.1	132.9	132.7	132.6	132.2	131.4	128.3	122.9	122.9	117.5°	0.0
130.5	130.1	129.6	128.9	128.6	128.1	128.1	127.2	126.6	122.7	114.7	114.7	120°	0.0
127.0	126.2	126.0	125.5	124.7	124.3	123.7	122.8	121.8	117.2	106.6	106.6	122.5°	0.0
124.3	123.6	122.5	122.2	121.3	120.4	119.7	118.5	117.4	111.3	98.2	98.2	125°	0.0
121.4	120.8	119.7	119.0	118.0	117.0	115.8	114.2	113.5	105.7	90.2	90.2	127.5°	0.0
119.0	117.7	116.5	115.9	114.6	113.4	112.2	110.3	108.9	100.2	81.7	81.7	130°	0.0
116.2	115.1	113.8	112.7	111.0	109.6	108.3	106.3	104.6	94.6	73.1	73.1	132.5°	0.0
114.4	112.8	111.4	110.1	108.1	106.6	104.7	102.6	100.8	89.3	63.7	63.7	135°	0.0
113.3	111.7	109.9	108.3	106.0	104.2	102.2	99.8	97.6	84.9	54.8	54.8	137.5°	0.0
112.9	111.1	109.2	107.2	104.8	102.6	100.1	97.8	94.9	80.8	45.1	45.1	140°	0.0
113.9	111.6	109.5	107.1	104.4	101.8	99.3	96.3	93.4	77.1	35.6	35.6	142.5°	0.0
116.5	113.7	111.3	108.7	105.5	102.7	99.8	96.3	93.2	74.6	27.2	27.2	145°	0.0
120.6	118.0	115.1	112.5	108.9	105.8	102.6	98.9	95.1	73.6	20.5	20.5	147.5°	0.0
128.8	125.4	122.5	119.7	115.5	112.3	108.6	104.1	99.9	74.5	17.2	17.2	150°	0.0
140.4	136.1	133.4	131.0	125.8	122.2	118.0	112.9	108.1	77.2	15.1	15.1	152.5°	0.0
156.4	153.1	148.3	144.5	139.2	135.3	130.6	124.4	119.1	81.0	14.1	14.1	155°	0.0
176.4	172.0	167.3	163.5	157.7	150.9	145.9	138.5	132.5	86.9	13.6	13.6	157.5°	0.0
200.9	195.7	189.3	186.1	178.1	172.8	166.1	158.2	150.5	96.0	13.9	13.9	160°	0.0
227.5	221.9	216.9	210.8	203.5	197.6	191.3	182.8	173.2	113.3	14.8	14.8	162.5°	0.0
255.6	251.9	247.2	239.3	235.3	227.8	219.7	210.5	203.5	135.8	17.1	17.1	165°	0.0
296.5	292.5	292.0	284.2	278.2	271.4	265.1	257.4	249.1	175.8	22.4	22.4	167.5°	0.0
359.4	355.4	350.7	344.7	337.6	329.1	321.3	310.9	301.7	215.9	24.9	24.9	170°	0.0
396.8	389.2	380.9	371.6	361.3	350.8	340.3	327.0	313.6	218.3	22.5	22.5	172.5°	0.0
393.6	384.2	373.6	361.1	350.2	337.3	326.0	308.8	296.6	194.4	18.3	18.3	175°	0.0
382.0	369.1	359.1	347.6	334.0	322.4	310.5	293.6	279.6	178.3	16.8	16.8	177.5°	0.0
352.1	341.2	327.3	316.3	306.2	292.3	281.1	265.3	255.7	154.6	15.0	15.0	180°	0.0
281.4	266.3	254.6	246.0	234.6	222.0	212.1	198.8	190.3	102.3	13.0	13.0		
163.9	160.2	147.0	139.6	132.7	122.5	114.6	108.2	97.0	49.6	11.5	11.5		
50.5	47.0	46.5	39.5	41.8	35.7	34.8	31.6	31.6	19.0	9.1	9.1		
16.1	15.8	15.2	14.3	14.0	14.0	13.6	13.5	12.9	10.2	6.8	6.8		
11.4	11.2	10.9	10.7	10.5	10.6	10.3	10.2	10.0	7.4	5.4	5.4		
7.9	7.6	7.2	7.2	7.0	6.9	7.0	6.7	6.6	5.2	4.5	4.5		
5.4	5.3	5.2	5.1	5.0	5.0	4.9	4.6	4.5	3.6	3.1	3.1		
3.5	3.0	2.9	2.5	2.4	2.4	2.2	2.4	2.6	2.6	2.0	2.0		
0.8	0.7	0.8	0.8	0.6	0.7	0.7	0.6	0.6	0.8	0.7	0.7		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226911
 ISW-AF-XXX-LED-E1-SL3-8030-XXB

REPORT NUMBER: P226911
 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°	139.5	139.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	134.9	133.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	127.7	124.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	118.1	112.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	107.0	99.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	95.5	85.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	84.8	71.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	73.5	56.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	62.7	43.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	50.5	30.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	37.1	21.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	26.4	17.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	19.8	14.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	15.8	12.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	13.5	11.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	12.0	10.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	11.3	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	10.8	10.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	10.5	9.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	10.4	9.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	10.2	9.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	10.3	9.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	10.7	9.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	11.3	9.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	11.8	9.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	12.0	10.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	11.8	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	11.6	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	11.4	10.1
										70°	10.9	9.4
										72.5°	9.8	8.5
										75°	8.3	6.8
										77.5°	6.8	5.5
										80°	5.0	4.2
										82.5°	3.7	3.2
										85°	2.6	2.3
										87.5°	1.6	1.4
										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



REPORT NUMBER: P226911

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

XX-LED-E1-SL3-8030-XXB

tinued):

135°	145°	155°	165°	175°	180°
139.5	139.5	139.5	139.5	139.5	139.5
132.8	132.7	130.7	130.3	129.0	129.7
121.5	120.2	116.6	115.9	114.4	114.0
108.1	104.4	101.5	98.4	95.4	96.9
92.3	86.1	79.9	75.8	74.1	73.6
77.4	66.2	58.4	50.4	47.5	48.6
59.3	46.5	36.1	31.5	28.8	28.3
41.8	29.8	25.0	23.8	23.3	23.3
28.3	22.7	20.9	20.4	20.4	20.5
21.6	19.1	18.3	18.4	18.7	18.8
17.9	16.9	16.5	17.1	17.7	17.8
15.4	15.2	15.3	16.0	16.6	16.7
13.5	13.8	14.1	14.7	15.3	15.4
12.2	12.6	12.8	13.2	13.5	13.6
11.3	11.7	11.6	11.9	12.1	12.2
10.7	10.9	10.7	10.9	10.9	11.0
10.2	10.3	9.9	10.0	10.2	10.2
9.8	9.7	9.3	9.4	9.7	9.8
9.3	9.1	8.8	9.1	9.5	9.6
8.9	8.7	8.6	9.0	9.4	9.5
8.7	8.6	8.4	9.0	9.4	9.5
8.7	8.6	8.4	8.8	9.3	9.4
8.8	8.7	8.3	8.7	9.1	9.1
8.9	8.7	8.2	8.4	8.6	8.7
8.9	8.6	8.0	8.1	8.1	8.2
8.7	8.3	7.7	7.7	7.6	7.6
8.7	8.0	7.4	7.2	7.1	7.1
8.7	7.9	7.3	7.1	6.8	6.8
8.5	7.8	7.2	6.8	6.6	6.6
7.9	7.5	6.8	6.5	6.2	6.1
7.1	6.8	6.3	6.1	5.8	5.7
6.0	6.1	5.7	5.6	5.4	5.3
5.0	5.2	5.0	5.0	4.8	4.7
4.0	4.3	4.2	4.2	4.3	4.1
3.1	3.5	3.3	3.5	3.6	3.4
2.1	2.5	2.5	2.6	2.7	2.5
1.3	1.7	1.6	1.7	1.7	1.6
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

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

-SL3-8030-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)