

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: P226298

Luminaire Tested: **ISW-AF-XXX-LED-E1-T2-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)
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-T2-8030-XXB
Description: IMPACT ELITE LED WEDGE LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 542.2 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - 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

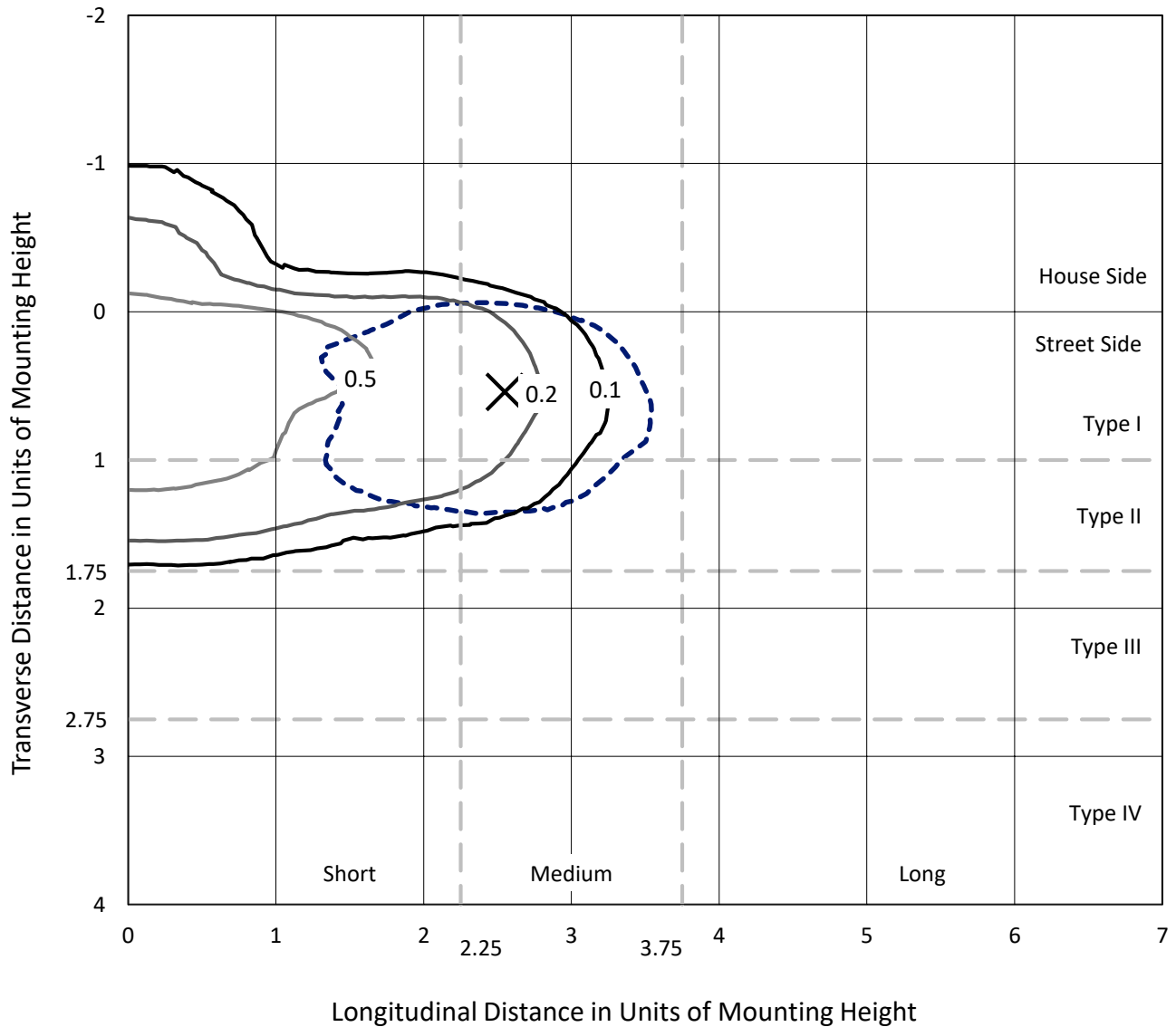


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Iso-Footcandle Lines of Horizontal Illumination

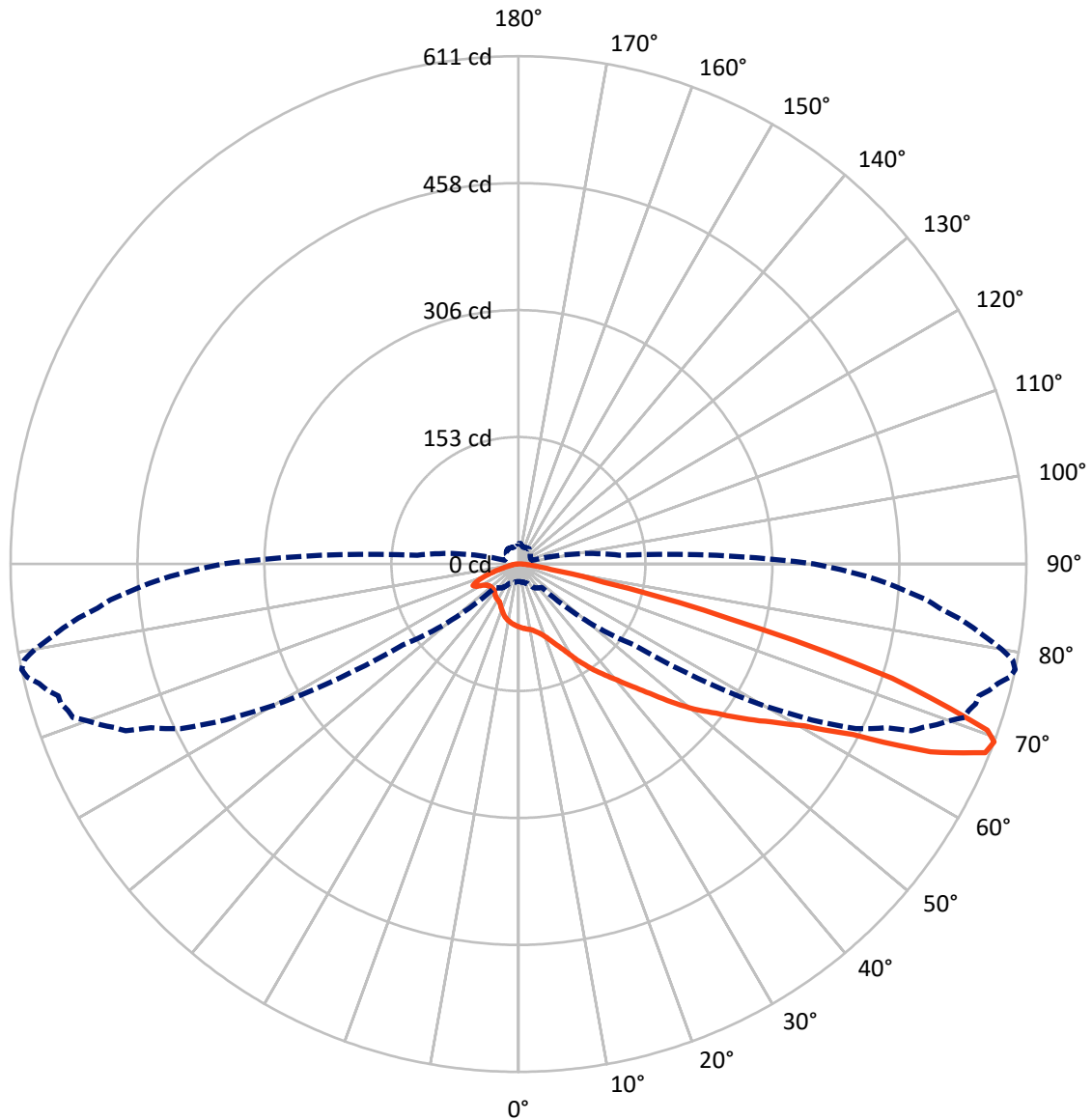
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	99.1	0.2	99.3
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	442.8	0.1	442.9
	% Fixture	81.7	0.0	81.7
Total	Lumens	541.9	0.3	542.2
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	1.3
10°-20°	21.1	3.9
20°-30°	37.9	7.0
30°-40°	61.9	11.4
40°-50°	91.5	16.9
50°-60°	119.5	22.0
60°-70°	133.6	24.6
70°-80°	60.0	11.1
80°-90°	9.4	1.7
90°-100°	0.3	0.1
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°	541.9	99.9
0°-180°	542.2	100.0



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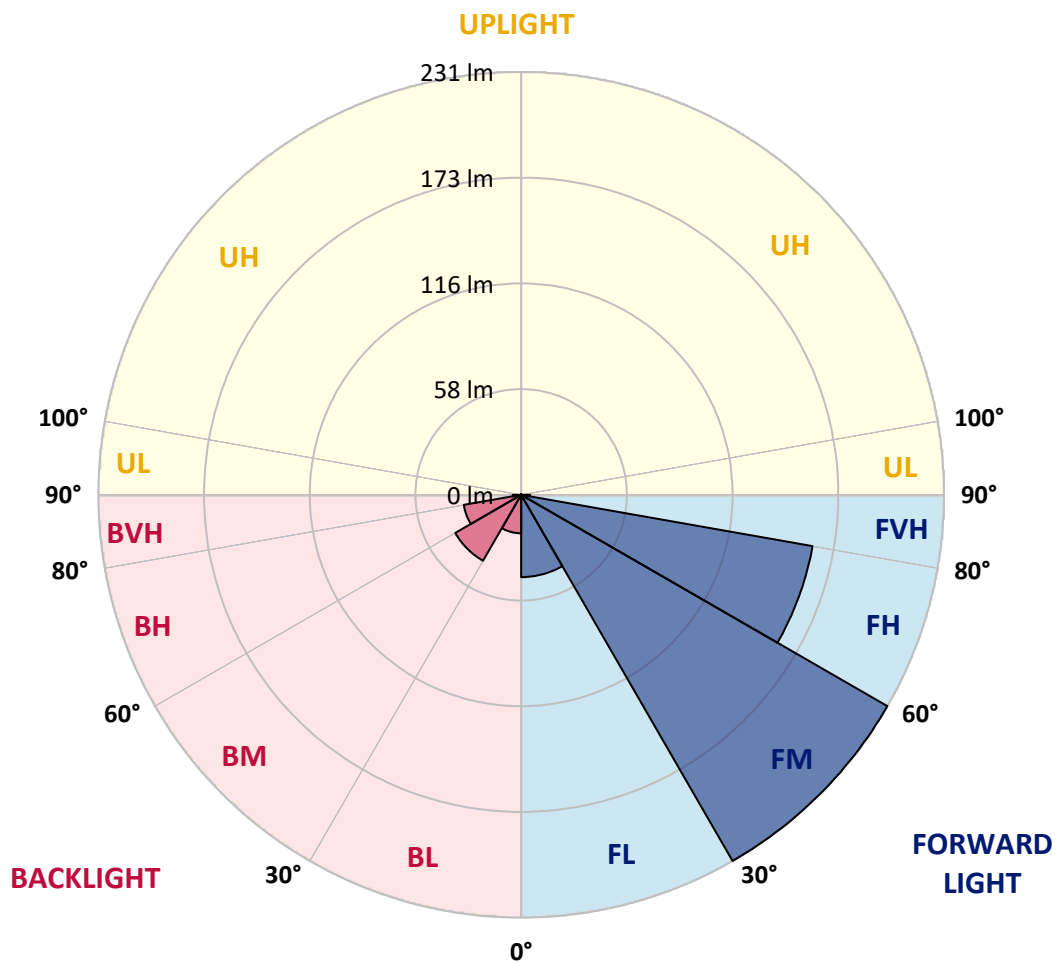
CATALOG NUMBER: ISW-AF-XXX-LED-E1-T2-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	45.0	8.3			
FM	(30°-60°)	231.2	42.6			
FH	(60°-80°)	161.8	29.8			G0/660
FVH	(80°-90°)	4.8	0.9			G0/10
BL	(0°-30°)	21.0	3.9	B0/110		
BM	(30°-60°)	41.6	7.7	B0/220		
BH	(60°-80°)	31.9	5.9	B0/110		G0/110
BVH	(80°-90°)	4.6	0.8			G0/10
UL	(90°-100°)	0.3	0.1		U1/10	
UH	(100°-180°)	0.2	0.0		U1/10	

BUG Rating: B0-U1-G0

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	80.8	80.8	80.5	80.4	80.1	79.5	78.5	78.4	78.3	78.2	78.0
5°	86.7	86.0	86.2	85.8	84.9	83.8	82.1	81.2	80.8	80.7	80.4
7.5°	91.5	91.5	91.3	90.5	89.3	88.0	85.6	84.3	83.9	83.7	83.1
10°	94.9	94.7	94.5	94.4	93.4	92.3	89.3	87.7	87.4	86.7	86.1
12.5°	97.4	97.4	97.4	97.3	96.7	95.9	93.5	91.8	91.5	90.6	90.0
15°	100.2	99.9	99.6	99.3	99.4	99.4	97.7	96.4	95.8	95.3	94.2
17.5°	106.1	105.4	104.7	103.7	102.2	101.8	101.8	101.7	100.8	100.7	99.6
20°	111.1	110.5	109.9	108.9	106.8	104.5	105.7	106.8	106.6	106.7	106.2
22.5°	117.4	116.9	115.6	114.5	111.8	109.0	109.2	111.5	111.8	112.2	112.3
25°	125.9	125.6	123.6	121.4	118.3	115.7	113.3	116.2	116.8	117.5	118.9
27.5°	134.4	133.9	131.7	129.8	125.9	123.1	119.7	121.3	122.2	123.6	125.8
30°	145.5	144.0	143.2	139.0	135.4	131.4	128.4	128.9	128.8	130.3	133.7
32.5°	161.6	159.2	155.3	151.0	146.8	141.4	139.0	138.9	138.5	140.3	142.2
35°	170.2	169.7	167.2	163.0	158.4	153.3	151.7	150.2	150.5	151.4	152.1
37.5°	179.6	179.1	177.2	174.9	171.3	174.1	165.4	163.2	162.1	161.7	161.9
40°	183.7	184.1	185.1	185.5	183.5	196.7	179.4	172.2	171.9	171.2	170.5
42.5°	184.6	185.6	187.6	192.1	194.1	222.9	191.1	182.4	181.1	180.6	180.6
45°	187.7	189.3	189.7	193.8	203.1	224.2	204.2	191.3	190.4	190.3	189.8
47.5°	195.3	197.5	197.5	199.3	208.1	226.8	208.7	200.3	199.7	199.4	200.6
50°	196.4	199.3	204.9	210.8	217.1	229.0	213.8	210.1	210.3	211.0	214.7
52.5°	177.8	180.6	195.6	212.7	233.5	234.8	221.6	223.1	224.6	228.1	234.9
55°	152.5	154.5	172.2	199.7	234.1	256.9	240.9	245.1	248.4	249.4	260.0
57.5°	120.0	122.9	140.9	176.5	218.6	263.2	285.5	287.4	283.7	287.0	290.9
60°	65.0	64.7	89.8	127.7	186.1	251.5	328.4	360.9	361.7	366.8	360.6
62.5°	36.4	36.4	43.6	65.6	119.7	212.8	349.1	424.5	434.3	442.6	460.7
65°	27.5	27.7	30.3	39.5	67.2	134.4	333.9	446.2	465.1	484.0	515.9
67.5°	22.8	22.8	24.7	29.4	42.0	61.0	245.9	402.6	426.2	448.9	492.9
69°	21.2	21.3	22.7	25.9	35.2	39.7	169.8	341.3	368.3	399.7	451.7
70°	20.4	20.1	21.5	24.2	31.9	31.3	124.4	296.8	317.7	345.9	405.6
72.5°	18.1	17.9	18.6	20.6	25.1	22.4	50.8	159.7	191.3	222.8	270.4
75°	16.1	15.9	16.4	17.4	19.5	17.1	25.5	66.9	81.0	104.7	144.4
77.5°	14.2	13.8	14.2	14.9	15.3	12.8	17.3	30.9	37.9	46.6	65.8
80°	12.9	12.4	13.0	12.7	12.0	9.8	11.5	18.0	20.0	23.9	31.3
82.5°	9.2	9.1	12.4	12.8	9.6	7.2	8.2	11.6	12.9	13.6	16.5
85°	5.7	5.4	7.2	9.1	9.8	4.5	5.3	6.8	7.2	7.8	9.2
87.5°	2.9	3.0	3.9	4.7	6.4	2.7	3.1	4.0	4.0	4.0	4.6
90°	0.7	0.9	1.2	1.7	1.3	0.7	1.2	0.9	1.1	0.9	1.1
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-T2-8030-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
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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CATALOG NUMBER: ISW-AF-XXX-LED-E1-T2-8030-XXB

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	78.1	77.8	77.5	77.6	77.4	77.2	77.3	77.2	77.3	77.1	77.0
5°	80.4	80.2	79.7	79.7	79.5	79.3	79.1	78.9	78.8	78.6	78.3
7.5°	83.0	82.5	82.2	81.9	81.5	80.9	80.8	80.5	80.3	80.1	79.7
10°	85.6	85.1	84.8	84.4	84.0	83.6	83.2	82.6	82.1	81.9	81.5
12.5°	89.6	88.9	88.3	87.7	87.3	86.6	86.0	85.3	84.8	84.5	83.7
15°	94.1	93.1	92.5	92.0	91.4	90.7	90.0	89.4	88.5	87.8	87.1
17.5°	99.2	98.4	97.9	97.0	96.3	95.5	95.0	94.2	93.5	92.2	91.6
20°	106.1	105.4	104.8	103.9	103.0	102.3	101.8	100.2	99.2	98.1	97.1
22.5°	112.5	112.5	112.0	111.4	110.8	109.9	109.1	107.9	106.7	105.4	104.0
25°	119.4	120.0	120.1	119.9	119.6	118.5	118.1	117.0	116.0	113.8	113.2
27.5°	127.1	127.8	128.7	129.8	130.0	128.8	129.4	128.2	126.6	125.6	123.6
30°	134.6	136.6	138.4	139.6	140.4	141.0	140.6	140.2	139.1	137.5	135.7
32.5°	144.2	146.2	148.0	150.8	152.2	153.9	153.6	153.8	153.4	151.8	149.7
35°	153.9	155.7	158.0	159.9	163.3	165.2	166.8	166.7	166.7	165.8	163.7
37.5°	162.4	163.5	165.4	168.4	170.7	173.7	176.2	177.2	178.9	179.0	176.8
40°	171.4	172.4	173.9	176.1	178.7	182.2	185.6	188.9	190.5	192.1	191.3
42.5°	181.1	182.2	183.3	184.7	188.3	191.1	195.7	200.1	203.4	206.8	206.4
45°	190.7	192.0	193.5	195.7	198.9	203.4	207.8	212.8	220.2	224.2	227.0
47.5°	201.6	203.6	206.5	209.9	212.5	217.1	222.7	230.5	238.0	244.9	249.3
50°	217.9	218.7	223.4	226.8	231.7	236.4	242.0	248.9	258.5	265.6	272.6
52.5°	237.2	240.2	244.9	248.7	252.6	257.4	263.1	269.3	278.9	286.8	295.8
55°	262.1	266.3	270.4	272.5	278.0	282.2	286.9	292.9	303.3	311.9	322.5
57.5°	291.8	296.0	298.0	301.0	303.3	308.1	314.4	318.4	327.6	336.5	347.7
60°	352.7	350.0	352.4	347.7	347.0	347.4	348.7	351.9	357.0	365.4	377.2
62.5°	462.6	458.8	448.5	444.8	437.7	428.0	418.9	417.6	414.9	421.2	428.6
65°	526.9	540.9	542.4	546.3	543.5	535.9	525.2	521.7	513.1	507.0	506.6
67.5°	511.4	532.4	545.6	562.2	571.4	580.4	582.7	585.8	580.2	577.5	578.2
69°	468.5	484.1	513.6	524.9	539.4	551.4	567.2	569.9	575.3	576.1	586.6
70°	426.0	448.9	465.8	482.8	502.9	516.1	523.2	534.8	548.3	554.9	566.2
72.5°	306.3	313.8	325.8	347.8	353.4	367.0	380.9	390.9	406.7	417.8	444.5
75°	165.3	169.8	188.6	201.1	204.4	208.9	219.1	221.6	227.5	231.1	256.7
77.5°	75.5	82.3	84.8	91.6	87.8	89.6	92.1	91.5	93.2	101.1	110.0
80°	34.8	36.1	37.1	39.9	40.1	39.4	39.7	39.3	39.0	40.2	41.2
82.5°	16.9	19.0	19.0	20.7	21.6	21.3	21.8	21.6	22.0	21.6	22.7
85°	9.9	9.9	10.7	11.6	11.5	11.8	11.8	12.4	12.5	12.7	12.7
87.5°	4.6	5.1	5.4	5.7	5.9	6.1	6.3	6.3	6.4	6.2	6.4
90°	1.2	1.2	2.0	2.0	2.1	2.4	2.0	2.2	2.8	2.0	2.6
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: P226298

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T2-8030-XXB

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
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: P226298

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T2-8030-XXB

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	76.8	77.0	76.9	76.6	76.5	76.5	76.3	76.3	76.1	76.0	76.2
5°	78.2	78.2	78.0	77.7	77.4	77.3	77.2	76.8	76.7	76.5	76.3
7.5°	79.6	79.4	79.1	78.5	78.2	78.2	77.8	77.4	77.1	76.7	76.6
10°	81.0	80.8	80.2	79.8	79.2	79.1	78.5	78.1	77.7	77.3	77.0
12.5°	83.0	82.9	82.2	81.2	80.8	80.4	79.7	79.2	78.6	78.2	77.6
15°	86.2	85.6	85.1	84.1	83.4	82.8	81.9	81.1	80.4	79.6	79.1
17.5°	90.6	89.7	88.5	87.9	87.0	85.9	84.8	84.2	83.2	82.2	81.3
20°	96.3	95.5	93.5	92.8	91.5	90.0	89.0	87.8	87.0	85.5	84.5
22.5°	102.7	101.9	100.0	98.1	96.9	95.7	94.2	92.7	91.1	89.6	88.5
25°	111.0	109.8	108.1	106.3	104.4	102.7	100.7	98.5	97.1	95.2	93.6
27.5°	122.2	120.2	117.4	115.4	113.9	111.4	108.8	107.0	104.8	102.2	100.4
30°	134.4	132.1	130.1	127.7	125.2	122.8	119.3	116.6	114.2	111.4	108.6
32.5°	148.0	146.0	143.1	140.0	137.3	134.2	131.7	128.8	124.7	121.8	118.8
35°	161.6	159.3	156.3	153.7	150.6	147.4	144.6	140.7	137.0	132.9	128.7
37.5°	174.7	172.8	169.5	165.5	162.8	159.4	156.5	152.4	148.0	143.3	140.2
40°	189.4	186.2	183.9	179.4	176.5	172.8	168.6	165.4	161.2	156.2	151.7
42.5°	206.1	203.9	201.5	197.8	194.8	190.3	185.0	181.0	177.1	171.1	164.9
45°	227.4	226.0	221.9	219.0	214.9	210.2	205.7	200.8	194.6	187.6	182.0
47.5°	252.9	251.8	248.2	243.9	238.6	232.3	228.0	221.3	216.0	207.4	200.6
50°	276.0	276.6	274.6	268.1	263.3	257.0	250.3	244.5	236.4	227.4	218.7
52.5°	303.6	303.1	298.1	294.5	288.9	281.2	273.9	266.4	257.5	248.2	237.5
55°	330.1	331.7	328.3	323.2	316.4	305.6	298.2	288.5	279.2	268.9	256.5
57.5°	355.7	361.0	358.3	352.3	345.4	337.6	327.8	316.9	307.3	293.9	279.9
60°	387.7	394.7	395.8	391.9	384.3	375.3	362.4	353.9	340.6	328.3	317.5
62.5°	436.9	452.8	451.8	453.7	448.4	442.8	427.8	418.6	401.3	392.4	377.4
65°	519.1	530.8	544.9	544.4	540.7	527.3	511.7	496.5	485.1	467.5	451.8
67.5°	588.0	597.7	606.0	601.7	593.2	578.2	559.9	538.7	521.3	501.9	481.4
69°	594.5	606.3	611.1	605.8	590.5	570.9	553.1	533.3	509.4	492.8	467.7
70°	577.1	588.8	598.6	584.9	570.9	551.7	532.2	511.7	490.3	472.4	447.1
72.5°	458.5	471.6	470.3	468.8	457.6	438.5	420.5	409.5	394.5	372.9	354.6
75°	266.6	272.6	262.0	273.2	259.8	240.5	243.0	230.6	219.6	207.2	197.6
77.5°	104.7	110.0	104.4	102.6	96.7	95.3	85.3	86.5	81.5	71.8	67.3
80°	39.7	40.4	39.4	37.5	37.1	34.8	34.2	32.0	30.9	27.7	26.5
82.5°	21.3	21.7	21.1	20.5	20.0	18.7	17.8	16.1	15.2	14.2	14.1
85°	12.3	12.0	11.6	11.3	10.6	9.8	9.2	8.6	7.9	7.3	6.8
87.5°	6.5	6.5	6.6	6.3	5.8	5.2	4.8	4.6	4.0	3.8	3.5
90°	2.1	1.6	1.8	2.3	2.1	1.7	1.7	1.4	1.2	1.2	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: P226298
 CATALOG NUMBER: ISW-AF-XXX-LED-E1-T2-8030-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
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	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												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: P226298
 NUMBER: ISW-AF-XXX-LED-E1-T2-8030-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	110°	0.0
76.0	76.0	75.7	75.6	75.0	74.1	73.1	72.3	71.1	70.6	70.0	112.5°	0.0
76.2	76.0	75.8	75.5	74.4	72.2	69.9	67.5	64.9	62.6	60.0	115°	0.0
76.3	76.0	75.7	75.3	73.7	70.4	65.8	61.0	56.5	53.1	51.7	117.5°	0.0
76.4	76.2	75.8	75.2	73.0	68.0	60.7	53.8	49.8	48.5	48.2	120°	0.0
77.3	76.9	76.3	75.6	72.7	65.4	54.9	48.3	46.8	47.4	48.5	122.5°	0.0
78.4	77.9	77.1	76.5	72.6	62.0	49.3	45.3	45.8	47.5	49.3	125°	0.0
80.4	79.6	78.7	78.1	72.9	57.8	44.9	43.7	45.3	47.5	50.0	127.5°	0.0
83.3	82.2	81.1	80.0	73.4	52.7	42.2	42.7	44.6	47.0	49.7	130°	0.0
86.9	85.6	84.2	82.6	73.9	48.2	40.7	41.6	43.4	45.4	47.6	132.5°	0.0
91.8	90.0	88.2	86.2	74.7	43.3	39.4	40.3	41.4	42.6	43.7	135°	0.0
97.9	95.5	93.6	90.8	75.5	40.0	38.3	38.6	38.8	39.0	38.9	137.5°	0.0
106.1	102.5	100.2	96.8	76.3	38.3	37.0	36.6	36.2	35.7	35.0	140°	0.0
114.8	111.8	108.1	103.8	76.9	37.1	35.8	34.6	33.4	32.9	32.9	142.5°	0.0
124.8	121.1	116.6	111.1	76.2	35.8	34.2	32.6	32.0	32.7	32.4	145°	0.0
134.9	129.8	124.7	118.5	74.5	34.4	32.5	31.6	32.1	31.2	30.6	147.5°	0.0
146.0	140.3	133.3	126.1	71.9	32.9	31.6	32.1	30.5	29.4	29.8	150°	0.0
158.4	151.7	144.2	134.4	70.3	32.0	30.3	30.7	29.3	28.5	28.3	152.5°	0.0
175.4	165.8	156.6	145.1	71.5	30.5	27.7	29.3	28.5	27.8	27.2	155°	0.0
192.0	181.8	170.9	157.3	73.7	29.4	25.7	27.8	28.3	27.2	26.0	157.5°	0.0
208.6	197.9	185.2	170.0	76.4	28.6	24.1	26.0	27.9	26.5	25.6	160°	0.0
226.2	212.6	199.6	183.2	79.9	27.9	22.8	24.4	27.2	26.5	25.1	162.5°	0.0
244.6	228.6	215.6	197.9	85.9	26.9	21.3	23.1	26.5	26.4	24.6	165°	0.0
266.0	251.7	235.0	217.0	94.4	25.7	19.8	22.2	25.9	26.1	24.1	167.5°	0.0
302.5	287.7	267.5	250.4	111.1	24.2	19.0	21.3	24.9	25.5	23.6	170°	0.0
361.6	341.4	322.9	306.9	139.6	22.0	18.3	20.2	23.8	24.7	23.2	172.5°	0.0
429.3	409.7	387.3	360.3	155.5	19.9	17.5	19.0	22.7	23.9	22.8	175°	0.0
458.1	432.4	405.3	373.2	140.3	18.3	16.5	17.8	21.4	22.8	22.3	177.5°	0.0
444.9	418.9	387.3	355.9	122.1	17.4	16.0	17.2	20.5	22.1	21.7	180°	0.0
421.9	395.7	367.6	329.9	109.0	16.9	15.6	16.8	20.1	21.7	21.4		
333.7	310.3	284.4	255.6	74.3	15.3	14.3	15.6	18.5	20.3	20.2		
176.9	170.0	150.8	134.0	38.5	13.7	13.0	14.2	17.1	19.0	19.0		
63.7	57.8	55.3	45.9	20.5	12.0	11.6	12.6	15.5	17.3	17.2		
24.1	23.5	21.0	19.7	13.0	9.8	9.8	10.8	13.6	15.3	15.3		
13.6	12.4	12.0	11.6	8.3	7.7	8.1	9.1	11.6	13.1	13.4		
6.5	6.1	5.9	5.5	5.4	5.9	6.4	7.2	9.3	11.1	10.9		
3.1	3.0	2.9	2.8	3.9	3.8	4.6	5.0	6.2	8.8	7.9		
1.0	1.0	0.9	0.8	1.1	1.3	1.5	2.1	2.6	5.1	4.2		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226298
 ISW-AF-XXX-LED-E1-T2-8030-XXB

REPORT NUMBER: P226298
 CATALOG NUMBER: ISW-AF-X

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	75.4	75.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	69.4	68.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	58.0	57.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	50.8	49.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	48.5	48.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	49.5	49.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	50.8	51.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	51.7	52.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	51.5	52.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	48.9	49.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	44.2	44.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	38.6	38.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	34.7	33.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	32.9	32.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	31.6	30.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	32.8	32.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	33.9	33.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	32.0	30.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	28.6	26.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	26.2	25.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	25.1	24.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	24.8	25.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	24.6	25.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	23.5	25.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	22.7	24.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	22.3	24.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	21.9	24.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	21.3	24.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°	20.9	24.9
										70°	20.6	24.6
										72.5°	19.5	22.7
										75°	18.2	20.1
										77.5°	16.4	17.2
										80°	14.6	15.0
										82.5°	12.7	14.5
										85°	9.9	12.3
										87.5°	7.3	6.8
										90°	4.2	3.1
										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: P226298

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

XX-LED-E1-T2-8030-XXB

tinued):

180°
75.4
68.6
57.4
49.9
48.6
49.6
51.5
52.9
52.7
49.7
44.5
39.1
34.5
33.0
31.1
33.1
34.1
30.9
26.9
25.1
24.6
25.8
25.4
25.1
24.6
24.2
24.2
24.3
24.0
23.6
21.3
19.1
17.2
15.2
12.8
9.6
7.3
2.6
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
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

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Scaled Data Report

