

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: P271766

Luminaire Tested: **ISW-AF-450-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-450-LED-E1-SLR-7027
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2350.2 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G1

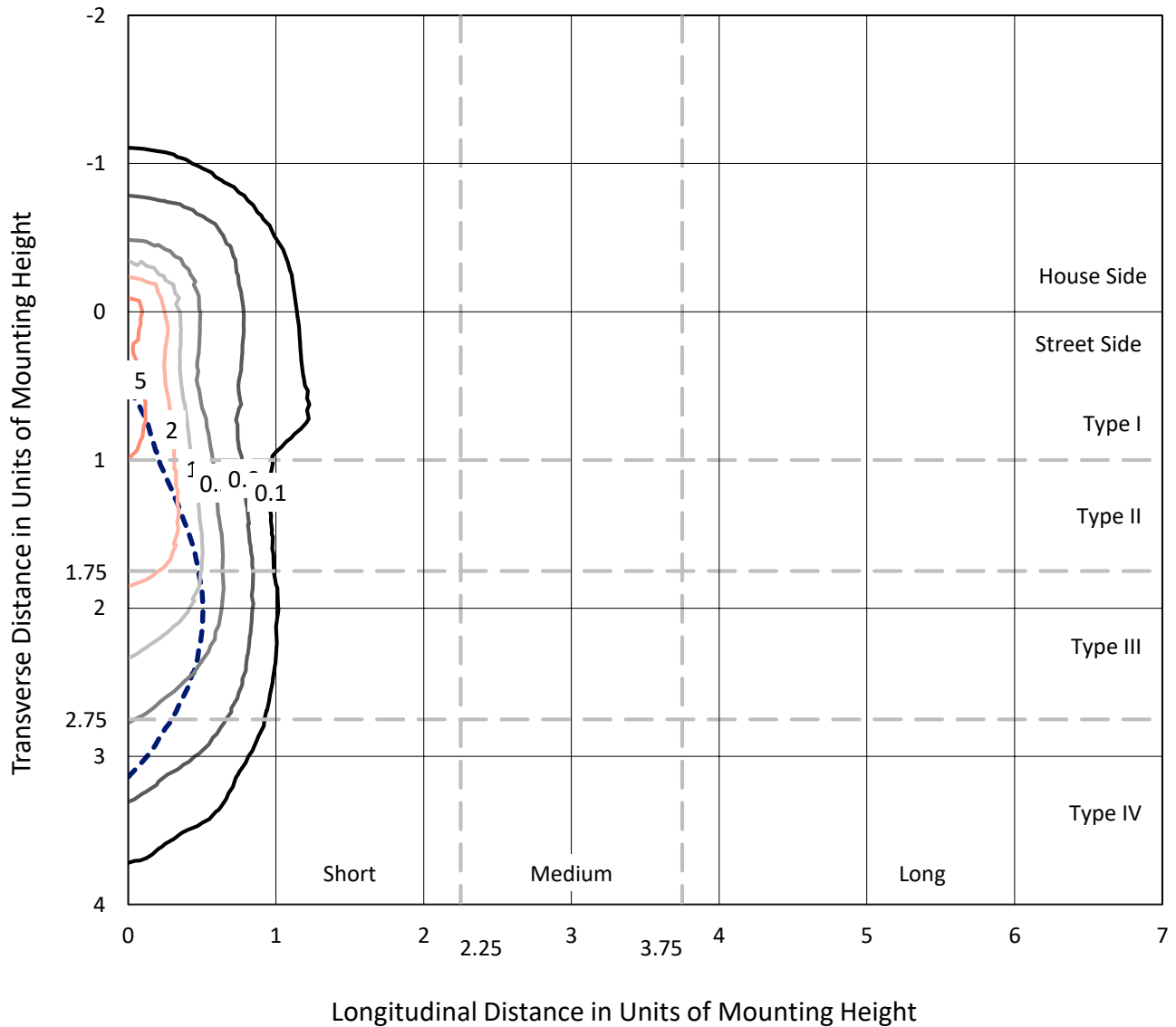
Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

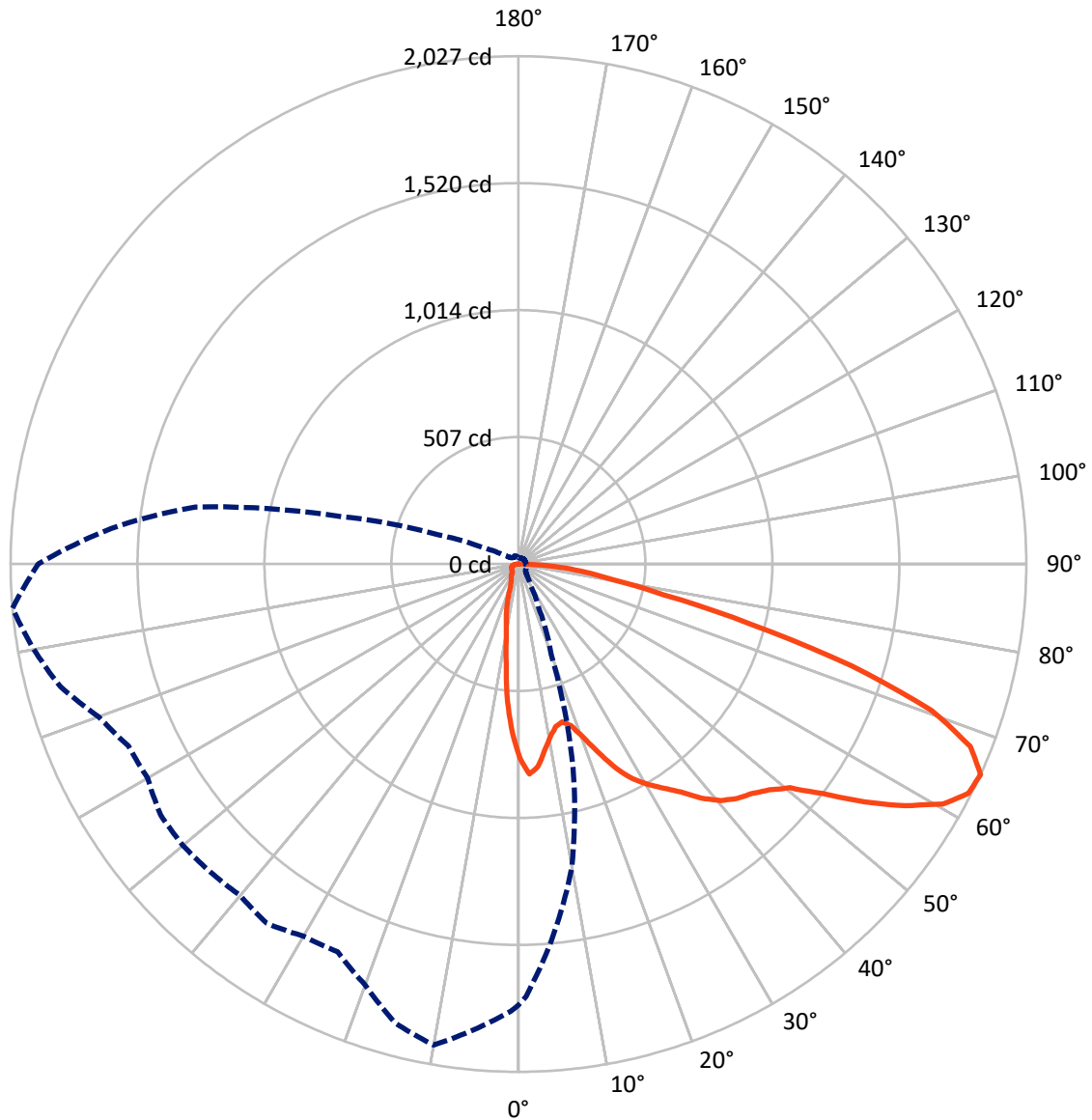
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271766
CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.1	0.0	403.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	1947.0	0.1	1947.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	2350.1	0.1	2350.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	2.4
10°-20°	110.7	4.7
20°-30°	157.8	6.7
30°-40°	229.0	9.7
40°-50°	327.5	13.9
50°-60°	502.9	21.4
60°-70°	582.1	24.8
70°-80°	296.9	12.6
80°-90°	85.7	3.6
90°-100°	0.1	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°	2350.1	100.0
0°-180°	2350.2	100.0



REPORT NUMBER: P271766

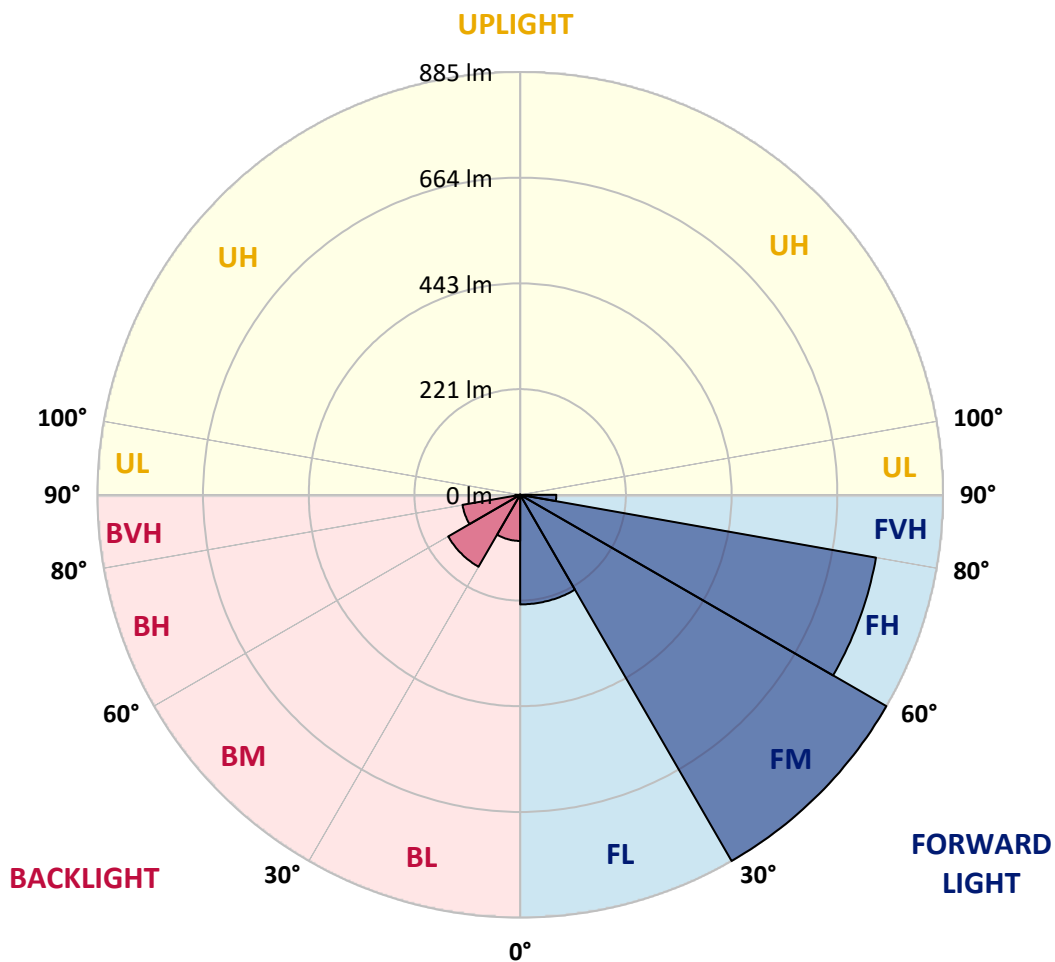
CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.5	9.8			
FM	(30°-60°)	885.3	37.7			
FH	(60°-80°)	756.4	32.2			G1/1800
FVH	(80°-90°)	75.7	3.2			G1/100
BL	(0°-30°)	96.5	4.1	B0/110		
BM	(30°-60°)	174.1	7.4	B0/220		
BH	(60°-80°)	122.6	5.2	B1/500		G1/500
BVH	(80°-90°)	10.0	0.4			G0/10
UL	(90°-100°)	0.1	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short





REPORT NUMBER: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5
2.5°	803.7	799.0	793.0	782.7	773.7	760.7	757.5	741.2	731.0	733.3	714.7
5°	754.7	751.9	737.3	714.3	699.3	669.7	652.6	643.9	619.4	616.2	609.5
7.5°	685.9	677.5	653.8	625.3	599.6	577.9	550.6	529.6	511.0	499.5	479.3
10°	626.8	618.2	592.5	557.7	526.9	496.4	474.2	447.0	420.5	399.8	383.7
12.5°	598.5	589.0	558.8	518.5	484.2	446.2	414.8	388.0	373.3	363.1	349.6
15°	609.5	595.7	559.6	511.5	468.6	428.3	395.2	366.3	348.8	333.0	317.2
17.5°	654.2	637.2	596.0	537.9	478.5	426.3	378.9	346.0	318.4	294.6	273.4
20°	731.0	718.3	658.5	577.1	500.0	427.5	365.1	322.0	288.4	258.4	229.8
22.5°	820.7	801.7	743.2	630.1	527.2	434.7	356.4	301.8	261.9	221.5	190.6
25°	914.8	900.2	822.7	701.3	569.2	449.3	349.6	284.0	230.5	185.9	151.8
27.5°	990.8	977.7	901.0	769.7	607.5	462.0	339.8	267.0	205.7	151.8	114.4
30°	1052.9	1041.9	961.5	825.8	654.2	466.3	325.9	247.2	178.0	122.6	94.5
32.5°	1122.5	1110.2	1019.7	865.0	675.2	462.4	310.1	228.6	155.9	108.3	81.0
35°	1198.9	1184.7	1084.5	907.4	692.5	448.5	296.6	215.1	145.2	98.5	72.0
37.5°	1266.9	1257.8	1143.1	949.3	712.4	425.5	283.5	200.5	138.0	91.4	64.9
40°	1319.9	1317.5	1208.0	984.0	727.8	409.0	272.9	189.0	129.0	88.7	62.5
42.5°	1362.5	1361.8	1261.0	1015.4	731.7	394.4	264.6	178.9	120.6	81.8	63.7
45°	1403.7	1403.3	1312.3	1058.8	734.5	395.2	258.4	172.5	113.5	77.5	60.2
47.5°	1442.9	1448.9	1366.1	1119.4	763.8	408.5	255.8	166.5	108.0	72.9	57.0
50°	1508.5	1502.7	1451.2	1201.2	810.8	434.7	252.0	161.3	102.9	68.5	53.8
52.5°	1633.2	1626.4	1580.6	1310.8	862.2	461.5	246.9	154.3	96.8	63.7	50.2
55°	1785.4	1794.5	1730.9	1444.0	932.4	484.2	241.3	144.8	89.0	58.1	47.9
57.5°	1874.9	1867.3	1794.5	1520.8	975.4	495.7	237.7	133.7	76.7	53.4	45.5
59°	1895.7	1883.2	1783.9	1533.9	986.9	490.0	235.7	123.0	70.3	51.0	44.3
60°	1893.8	1878.4	1766.9	1525.5	990.0	483.4	232.6	116.7	66.8	49.9	43.8
62.5°	1853.0	1828.9	1670.3	1425.1	945.7	449.7	219.5	101.7	62.2	48.3	41.5
65°	1760.5	1726.5	1508.2	1228.9	844.0	382.9	189.8	96.1	63.3	47.5	40.0
67.5°	1600.7	1573.4	1299.7	1016.9	672.8	309.3	164.1	93.7	64.9	48.3	37.5
70°	1302.1	1278.7	1014.2	761.4	503.9	246.0	149.1	92.5	63.7	46.4	35.7
72.5°	918.4	878.0	674.0	533.1	319.5	197.8	129.4	87.5	62.2	44.6	32.4
75°	558.8	566.4	428.3	388.3	201.7	135.6	101.7	73.6	55.0	40.0	29.3
77.5°	368.7	368.2	316.0	274.2	102.5	84.2	72.0	56.5	43.1	32.8	25.3
80°	250.0	252.7	229.3	187.0	57.0	50.7	47.1	41.1	31.6	25.0	21.0
82.5°	153.9	154.3	177.5	140.0	38.0	32.0	30.0	27.7	22.5	19.3	16.2
85°	53.4	54.5	62.2	98.8	25.7	21.0	21.0	19.3	17.0	13.0	10.7
87.5°	23.0	22.5	26.9	26.9	12.7	10.7	9.9	9.9	9.5	7.2	5.9
90°	1.5	1.2	1.2	1.5	2.0	2.8	2.3	2.8	2.8	2.3	1.5
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°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5
2.5°	709.2	704.8	692.5	689.4	693.3	685.5	683.5	681.5	666.8	674.4	665.6
5°	592.9	591.7	566.8	572.0	566.8	558.0	554.5	562.9	548.1	551.4	553.4
7.5°	455.6	450.9	434.3	423.2	416.5	410.5	403.1	390.9	400.3	398.3	413.3
10°	369.8	359.5	349.2	333.8	325.2	316.8	308.1	303.4	292.3	291.1	286.0
12.5°	339.0	324.4	311.4	297.9	288.7	272.2	258.4	249.5	242.5	231.4	223.0
15°	297.9	285.6	268.5	255.5	241.3	226.2	212.8	201.7	196.5	186.3	181.5
17.5°	256.3	237.7	217.1	204.1	184.3	168.9	157.8	150.6	143.2	136.8	131.3
20°	206.5	182.4	160.2	143.5	128.2	113.2	108.0	99.4	96.1	93.7	95.7
22.5°	157.0	132.1	109.1	96.5	88.2	84.2	79.9	78.3	77.2	76.7	77.5
25°	115.2	94.1	83.0	78.3	75.2	72.9	71.1	70.0	69.2	68.8	69.2
27.5°	89.0	78.0	72.3	69.2	66.8	65.3	64.5	63.3	62.9	62.5	62.9
30°	77.2	71.1	67.2	64.0	61.4	58.5	57.3	57.0	57.3	57.7	57.3
32.5°	67.2	62.9	58.5	55.8	53.8	52.2	52.2	51.5	51.5	52.6	53.0
35°	60.9	56.5	53.4	49.9	47.5	45.8	44.6	43.8	44.3	44.3	45.5
37.5°	55.8	52.6	49.9	46.7	44.3	42.7	42.0	41.1	40.7	40.3	40.3
40°	52.2	50.2	47.9	44.6	42.3	40.7	40.0	39.2	38.8	38.4	38.4
42.5°	52.2	48.3	46.7	43.8	41.1	39.5	38.4	37.5	36.8	36.8	36.8
45°	57.3	49.5	46.7	43.5	40.7	38.8	37.5	36.4	35.7	35.7	35.2
47.5°	55.8	55.3	47.5	43.5	41.1	38.8	37.2	36.0	35.2	34.9	34.5
50°	53.0	57.7	53.0	44.6	41.1	38.4	36.8	35.7	34.5	34.0	34.0
52.5°	51.5	53.8	55.0	46.4	41.5	38.4	36.4	35.2	34.5	33.7	33.2
55°	47.5	50.7	52.6	45.5	41.5	37.5	35.7	34.5	33.2	32.8	32.4
57.5°	43.5	45.8	50.7	45.5	40.3	37.2	34.9	33.2	32.4	32.0	31.6
59°	42.3	42.3	45.1	46.7	39.5	36.8	34.5	32.8	32.0	31.6	30.8
60°	41.1	41.1	42.7	47.9	39.2	36.4	34.0	32.4	31.2	31.2	30.8
62.5°	39.5	38.4	39.2	44.6	38.0	35.7	33.2	31.6	30.5	30.5	30.0
65°	37.5	36.0	36.0	37.2	35.7	34.0	32.4	30.8	29.3	29.3	29.6
67.5°	35.7	34.0	33.7	33.7	32.8	32.4	30.8	29.3	28.5	28.5	28.5
70°	32.8	31.6	31.2	30.5	30.5	30.0	28.8	27.7	26.9	27.3	26.9
72.5°	29.6	28.8	28.0	28.0	27.7	27.3	26.1	25.3	25.0	25.3	25.3
75°	26.5	25.3	25.3	24.5	24.5	24.2	23.0	22.5	22.2	22.5	23.0
77.5°	22.5	21.8	21.4	21.4	21.4	21.4	19.8	19.3	19.3	20.2	20.2
80°	18.5	18.1	17.8	17.8	17.8	17.3	16.6	16.2	16.2	16.6	17.0
82.5°	14.2	13.5	13.5	13.8	14.2	14.2	13.0	12.3	12.3	13.0	13.8
85°	9.5	9.5	9.5	9.9	9.9	10.3	9.5	8.4	8.7	9.2	10.3
87.5°	5.1	5.5	5.1	4.7	5.5	5.1	5.1	4.7	5.1	5.5	5.9
90°	1.5	1.5	1.2	0.8	0.4	0.8	0.8	1.2	0.4	0.4	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: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
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: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5
2.5°	673.5	666.8	663.3	677.1	676.0	664.0	664.0	672.4	672.8	665.6	674.0
5°	555.7	549.0	555.3	549.9	553.0	552.5	557.3	548.7	552.2	549.0	541.5
7.5°	412.1	425.5	432.7	423.6	435.0	441.0	432.7	441.0	428.0	417.4	427.5
10°	283.5	298.7	295.8	310.5	316.0	319.2	325.2	317.6	308.5	305.7	298.2
12.5°	219.9	216.7	215.5	221.5	225.0	219.9	224.3	219.5	214.8	206.5	206.1
15°	172.0	166.9	163.3	156.7	154.3	155.5	157.5	157.5	148.0	148.3	151.8
17.5°	130.5	129.4	126.6	121.0	117.5	118.7	118.3	116.3	115.2	115.9	120.2
20°	98.1	96.8	98.5	100.1	98.8	99.4	97.6	95.7	95.0	95.7	96.5
22.5°	77.5	79.1	81.0	83.5	83.8	85.8	85.4	85.8	84.2	83.5	81.5
25°	70.8	71.5	70.3	70.8	70.8	72.9	72.3	72.3	70.8	70.3	70.8
27.5°	62.5	62.2	62.2	62.9	62.9	64.0	64.9	64.0	62.5	62.2	62.5
30°	57.7	57.3	57.0	57.3	57.0	57.3	58.1	58.1	57.3	56.1	56.5
32.5°	53.0	53.0	52.6	53.0	52.6	52.6	53.4	52.2	52.2	51.8	51.8
35°	46.7	47.5	48.3	48.7	48.7	48.7	49.5	48.3	47.9	47.5	47.5
37.5°	40.3	41.1	43.5	44.6	45.1	45.8	46.4	45.5	44.6	43.8	43.1
40°	38.4	38.4	39.2	40.7	42.3	42.7	43.5	42.3	42.0	40.7	39.5
42.5°	36.8	37.2	37.2	37.5	38.0	38.8	40.0	38.8	38.0	37.2	36.0
45°	35.7	35.7	35.7	35.7	35.2	35.2	35.7	34.9	34.5	34.0	34.0
47.5°	34.9	34.5	34.0	33.7	33.2	32.8	32.8	32.0	32.0	32.0	32.0
50°	34.0	33.2	32.8	32.4	31.6	31.6	31.6	30.8	30.5	30.5	30.8
52.5°	32.8	32.4	32.0	31.6	31.2	30.8	30.8	30.0	29.6	29.6	29.6
55°	32.4	32.0	31.2	30.8	30.5	30.8	30.5	30.0	29.3	29.3	29.3
57.5°	31.2	31.6	31.2	30.5	30.5	30.5	30.5	29.6	29.3	28.5	28.8
59°	30.8	31.2	30.8	30.5	30.0	30.5	30.5	29.3	28.8	28.5	28.5
60°	30.5	30.8	30.5	30.0	30.0	30.5	30.0	29.6	28.8	27.7	28.0
62.5°	30.0	30.0	29.6	29.6	29.3	29.6	29.3	28.5	27.7	26.9	26.5
65°	29.3	29.3	28.8	28.8	28.5	28.5	28.5	27.7	26.9	26.1	26.1
67.5°	28.8	28.5	28.0	28.0	27.7	27.7	27.7	26.9	25.7	25.3	25.0
70°	27.3	26.9	26.9	26.5	26.1	26.5	26.9	25.7	24.5	23.7	23.4
72.5°	25.7	25.3	25.3	25.0	25.0	25.3	25.7	24.5	23.0	22.2	21.8
75°	23.4	23.0	23.0	23.0	23.0	23.7	23.7	22.5	21.4	20.2	19.3
77.5°	20.2	20.6	20.6	20.6	20.6	21.4	21.4	20.6	19.3	18.5	17.3
80°	17.3	17.3	17.8	17.8	18.1	18.1	17.8	17.3	17.0	16.2	14.6
82.5°	14.6	14.6	14.6	14.6	14.6	14.2	13.5	14.2	14.2	13.5	12.3
85°	11.5	11.5	11.5	11.9	11.9	10.7	9.5	9.5	10.7	10.3	9.5
87.5°	6.7	6.7	7.2	8.4	7.5	7.2	5.9	6.3	5.9	6.7	5.5
90°	1.5	1.2	1.2	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P271766
 CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
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	59°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
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: P271766
 NUMBER: ISW-AF-450-LED-E1-SLR-7027

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	110°	0.0
674.8	676.3	679.8	678.7	691.8	687.8	696.9	709.2	720.7	715.1	716.7	112.5°	0.0
555.0	556.9	541.9	551.0	564.5	558.8	556.9	575.2	570.7	591.4	574.3	115°	0.0
411.0	406.2	399.0	395.5	385.6	385.6	404.2	412.5	411.3	425.5	440.2	117.5°	0.0
288.7	283.1	274.5	272.2	282.0	286.8	295.0	303.4	314.5	330.7	340.2	120°	0.0
212.0	210.0	212.0	217.9	227.0	233.8	246.4	261.0	273.4	286.4	299.0	122.5°	0.0
160.2	164.1	169.3	173.2	180.4	193.0	199.7	216.0	227.0	238.5	253.1	125°	0.0
124.5	127.0	128.2	129.7	135.6	144.8	144.8	161.3	176.0	191.0	203.3	127.5°	0.0
95.0	95.0	91.0	93.3	94.1	93.3	98.1	107.5	117.0	127.0	146.3	130°	0.0
79.5	77.2	76.0	75.5	76.0	77.5	80.3	83.8	85.4	89.8	97.3	132.5°	0.0
70.3	70.0	68.8	68.8	69.6	70.0	72.9	76.0	76.7	78.0	80.7	135°	0.0
62.2	62.9	64.0	63.7	64.0	64.9	66.8	69.6	71.1	71.5	73.6	137.5°	0.0
56.1	57.0	57.3	58.5	58.5	58.9	60.5	63.3	64.5	66.5	68.5	140°	0.0
52.2	52.6	53.0	52.6	53.0	53.0	55.0	57.7	59.3	60.5	61.7	142.5°	0.0
47.9	47.5	47.5	47.5	46.4	45.8	46.7	49.5	49.9	51.0	53.8	145°	0.0
42.7	41.5	40.7	40.7	40.7	41.1	43.1	45.8	46.4	47.5	49.9	147.5°	0.0
38.0	37.5	37.5	38.0	38.4	39.2	40.7	43.5	43.8	45.1	47.1	150°	0.0
35.7	35.7	35.7	36.0	36.4	36.8	38.8	41.5	42.3	43.5	45.8	152.5°	0.0
34.0	34.5	34.0	34.0	34.5	35.2	37.2	40.3	41.5	42.7	45.1	155°	0.0
32.8	32.8	32.8	33.2	33.2	34.0	36.4	39.5	40.3	42.0	45.5	157.5°	0.0
31.2	32.0	31.6	32.0	32.4	33.2	35.7	38.8	40.0	42.3	46.4	160°	0.0
30.5	30.5	30.5	30.8	31.6	32.0	34.0	37.5	39.2	42.3	48.7	162.5°	0.0
30.0	29.3	29.3	29.6	30.5	31.2	33.2	36.8	38.8	42.0	48.3	165°	0.0
29.6	28.5	28.0	28.5	29.3	29.6	32.0	35.7	38.4	40.7	46.7	167.5°	0.0
28.5	27.7	27.3	27.7	28.5	29.3	31.2	34.9	36.8	40.0	44.6	170°	0.0
28.0	26.9	26.9	27.3	28.0	28.5	30.5	34.0	36.0	40.3	45.8	172.5°	0.0
26.5	26.1	26.1	26.5	26.5	27.3	29.6	33.2	34.9	41.1	38.4	175°	0.0
25.3	25.3	25.3	25.3	25.7	26.1	28.8	32.4	33.2	35.7	32.8	177.5°	0.0
24.5	24.5	24.5	24.5	24.5	25.3	27.7	31.2	31.6	31.2	30.0	180°	0.0
23.0	23.0	23.0	23.0	23.4	23.7	26.1	29.3	29.3	28.5	28.5		
21.8	21.4	21.4	21.4	21.4	21.8	24.2	27.3	26.9	26.5	26.5		
19.3	19.3	19.3	19.3	19.3	19.3	21.8	25.0	24.5	24.2	23.7		
17.0	17.0	17.3	17.0	16.6	16.2	18.5	22.2	22.2	21.8	21.4		
14.6	14.2	14.6	14.2	13.5	13.5	15.5	18.5	19.0	18.5	17.8		
11.9	11.5	11.5	11.5	9.9	9.9	11.9	15.0	15.0	14.6	13.8		
9.2	8.7	8.4	7.9	6.7	6.7	8.4	11.0	11.5	9.9	9.5		
4.7	4.7	4.7	3.5	3.1	2.8	4.3	6.7	6.7	5.5	4.7		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'271766
 ISW-AF-450-LED-E1-SLR-7027

REPORT NUMBER: P271766
 CATALOG NUMBER: ISW-AF-4!

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	776.5	776.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	726.5	730.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	587.0	600.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	443.9	462.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	355.5	368.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	312.1	330.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	267.8	287.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	219.5	243.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	167.7	191.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	117.9	138.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	85.8	95.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	76.4	79.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	71.5	74.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	64.5	66.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	56.5	59.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	52.6	55.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	50.2	50.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	48.3	48.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	47.1	48.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	47.9	53.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	53.8	52.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	55.0	49.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	50.2	47.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	45.1	41.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	40.3	38.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	37.5	36.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	34.5	35.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	32.0	33.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	30.8	32.0
										70°	28.8	29.6
										72.5°	26.9	27.3
										75°	24.2	24.5
										77.5°	21.4	21.4
										80°	17.3	17.3
										82.5°	13.5	13.0
										85°	8.7	8.4
										87.5°	4.0	3.1
										90°	0.0	0.0
										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: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-

50-LED-E1-SLR-7027

tinued):									CANDELA DISTRIBUTION (continued):			
225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	776.5	110°	0.0	0.0	0.0
748.0	759.0	767.7	766.2	784.7	795.8	797.3	808.8	820.0	112.5°	0.0	0.0	0.0
611.8	627.3	642.4	653.3	682.7	706.8	725.4	745.1	768.5	115°	0.0	0.0	0.0
487.7	500.7	525.3	543.0	573.8	602.0	629.4	660.5	687.0	117.5°	0.0	0.0	0.0
382.0	398.7	421.7	454.8	482.6	514.5	549.0	578.7	623.0	120°	0.0	0.0	0.0
343.3	353.7	372.5	388.3	422.8	456.9	495.7	536.4	577.1	122.5°	0.0	0.0	0.0
303.4	321.5	339.4	362.3	392.4	429.6	471.5	515.4	561.2	125°	0.0	0.0	0.0
264.6	288.7	308.1	333.0	366.7	413.7	468.3	522.9	576.7	127.5°	0.0	0.0	0.0
217.1	239.7	273.7	299.0	343.0	401.8	471.9	547.3	620.2	130°	0.0	0.0	0.0
170.9	195.0	233.8	271.4	319.5	395.5	486.2	587.7	685.0	132.5°	0.0	0.0	0.0
122.2	155.0	193.5	240.8	299.5	391.6	505.5	637.5	768.5	135°	0.0	0.0	0.0
91.4	114.4	161.0	212.8	276.9	384.5	526.0	683.9	825.5	137.5°	0.0	0.0	0.0
81.5	97.6	128.2	182.7	249.2	370.6	541.5	727.8	877.3	140°	0.0	0.0	0.0
71.1	83.8	108.0	154.3	224.3	349.2	548.1	751.2	913.3	142.5°	0.0	0.0	0.0
62.5	74.4	98.8	143.2	211.6	325.2	547.0	774.5	958.4	145°	0.0	0.0	0.0
57.0	67.2	95.0	140.5	201.7	303.0	548.1	812.0	1025.2	147.5°	0.0	0.0	0.0
52.6	64.5	91.8	134.5	197.0	290.7	553.0	845.2	1082.5	150°	0.0	0.0	0.0
52.6	63.7	83.8	126.2	194.7	291.9	555.0	871.0	1125.3	152.5°	0.0	0.0	0.0
55.3	59.7	78.0	121.5	196.2	300.7	552.5	897.0	1166.8	155°	0.0	0.0	0.0
52.6	55.8	74.0	120.6	196.2	307.0	559.6	929.5	1221.3	157.5°	0.0	0.0	0.0
49.9	51.8	72.9	119.5	192.2	312.9	589.0	990.0	1292.6	160°	0.0	0.0	0.0
46.4	48.7	71.1	117.5	187.8	320.3	640.7	1091.7	1410.5	162.5°	0.0	0.0	0.0
42.0	46.7	68.8	114.4	185.1	333.8	693.9	1194.5	1550.8	165°	0.0	0.0	0.0
40.3	44.6	63.3	106.8	182.4	348.5	750.4	1293.0	1677.0	167.5°	0.0	0.0	0.0
39.2	43.1	58.5	101.3	180.0	355.5	767.3	1330.6	1725.7	170°	0.0	0.0	0.0
38.4	42.3	55.8	96.5	177.1	356.0	779.5	1344.9	1732.8	172.5°	0.0	0.0	0.0
37.2	40.7	50.2	86.7	168.5	355.5	780.8	1353.8	1712.3	175°	0.0	0.0	0.0
35.2	39.2	50.7	81.5	152.7	339.0	731.7	1310.0	1630.3	177.5°	0.0	0.0	0.0
33.7	38.0	53.4	82.6	136.0	296.2	640.0	1173.5	1455.2	180°	0.0	0.0	0.0
31.2	37.2	55.8	85.4	131.3	246.0	484.2	958.4	1218.6				
28.8	36.8	57.7	87.5	126.2	202.5	335.3	679.5	912.0				
26.1	33.7	52.6	74.4	104.5	147.1	216.0	444.6	628.9				
22.5	26.9	38.4	52.2	76.7	102.9	127.8	268.5	411.3				
18.5	20.2	27.3	33.7	51.0	60.9	70.8	151.5	287.5				
13.8	14.2	18.5	21.4	28.8	33.7	42.3	93.0	233.0				
7.9	9.2	12.7	14.2	17.3	21.4	27.7	59.3	182.7				
3.1	4.0	7.5	8.4	9.5	11.9	15.5	34.5	57.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				



REPORT NUMBER: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

SLR-7027

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	776.5	776.5	776.5	776.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	831.0	839.4	846.5	852.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	793.5	812.9	836.1	855.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	726.5	751.2	789.1	812.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	663.3	699.3	740.8	774.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	620.2	664.8	704.5	742.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	608.3	653.8	689.4	723.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	632.0	677.5	708.0	729.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	687.8	736.5	755.8	754.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	764.2	815.2	815.2	799.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	865.0	901.8	881.7	851.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	936.7	971.0	935.9	886.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	996.0	1021.2	976.5	916.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	1048.1	1066.7	1007.8	948.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	1110.7	1117.4	1040.2	977.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	1179.8	1185.4	1086.9	1008.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	1261.3	1241.5	1121.4	1037.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	1311.5	1279.2	1146.2	1052.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	1351.1	1306.9	1157.7	1061.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	1399.8	1347.5	1177.9	1077.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	1463.9	1404.1	1228.9	1121.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	1595.2	1521.2	1320.7	1199.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	1746.2	1676.2	1467.4	1328.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	1867.3	1820.2	1598.4	1444.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	1912.0	1891.8	1690.9	1543.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	1928.6	1946.0	1739.9	1603.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	1940.1	2015.7	1899.4	1782.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	1916.4	2027.0	1963.9	1892.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	1813.0	1945.5	1933.3	1870.5
								70°	1601.9	1749.4	1792.2	1702.7
								72.5°	1205.2	1388.3	1621.4	1481.2
								75°	785.1	954.4	1384.4	1268.9
								77.5°	491.6	595.7	987.7	888.7
								80°	327.2	382.9	626.8	570.7
								82.5°	246.0	271.4	431.2	405.5
								85°	129.7	165.4	335.3	425.2
								87.5°	48.7	54.2	252.3	380.2
								90°	0.0	0.0	0.4	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	0.0	0.0	0.0	0.0
								97.5°	0.0	0.0	0.0	0.0
								100°	0.0	0.0	0.0	0.0
								102.5°	0.0	0.0	0.0	0.0
								105°	0.0	0.0	0.0	0.0
								107.5°	0.0	0.0	0.0	0.0



REPORT NUMBER: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
776.5	776.5	776.5	776.5	776.5	776.5	776.5	110°	0.0	0.0	0.0	0.0	0.0
856.7	863.8	868.2	865.0	870.2	871.4	865.9	112.5°	0.0	0.0	0.0	0.0	0.0
872.5	892.4	906.6	916.5	920.4	924.0	922.4	115°	0.0	0.0	0.0	0.0	0.0
843.3	873.7	900.2	918.4	924.7	929.5	925.2	117.5°	0.0	0.0	0.0	0.0	0.0
810.8	842.5	867.4	885.5	885.2	890.0	881.7	120°	0.0	0.0	0.0	0.0	0.0
780.4	811.2	833.4	832.5	827.1	813.2	810.8	122.5°	0.0	0.0	0.0	0.0	0.0
756.2	772.5	778.0	776.9	761.0	753.0	751.9	125°	0.0	0.0	0.0	0.0	0.0
744.3	743.5	731.0	717.0	702.0	701.3	691.0	127.5°	0.0	0.0	0.0	0.0	0.0
746.3	720.7	697.4	673.5	657.4	653.8	655.0	130°	0.0	0.0	0.0	0.0	0.0
771.3	725.8	681.9	657.8	638.8	633.2	635.6	132.5°	0.0	0.0	0.0	0.0	0.0
802.5	741.6	687.0	650.2	634.8	628.2	629.4	135°	0.0	0.0	0.0	0.0	0.0
823.5	759.8	704.0	658.5	637.5	631.3	635.2	137.5°	0.0	0.0	0.0	0.0	0.0
850.3	784.7	727.0	679.8	648.7	640.3	643.2	140°	0.0	0.0	0.0	0.0	0.0
876.8	811.6	759.3	706.0	668.1	652.6	657.0	142.5°	0.0	0.0	0.0	0.0	0.0
905.4	842.9	790.3	741.6	696.9	672.8	678.3	145°	0.0	0.0	0.0	0.0	0.0
938.5	879.4	834.2	789.5	743.5	723.5	725.8	147.5°	0.0	0.0	0.0	0.0	0.0
970.6	914.8	886.0	852.9	825.8	795.0	795.0	150°	0.0	0.0	0.0	0.0	0.0
989.7	961.2	953.2	943.7	927.9	905.9	901.0	152.5°	0.0	0.0	0.0	0.0	0.0
1013.0	1016.2	1034.3	1053.4	1058.0	1036.3	1029.5	155°	0.0	0.0	0.0	0.0	0.0
1056.9	1090.0	1149.8	1201.7	1211.9	1229.7	1209.2	157.5°	0.0	0.0	0.0	0.0	0.0
1118.6	1179.8	1280.7	1365.3	1389.5	1391.0	1392.6	160°	0.0	0.0	0.0	0.0	0.0
1189.0	1276.9	1410.1	1510.9	1554.1	1565.5	1557.2	162.5°	0.0	0.0	0.0	0.0	0.0
1309.5	1389.0	1535.0	1643.8	1699.2	1726.1	1719.0	165°	0.0	0.0	0.0	0.0	0.0
1429.0	1527.9	1656.5	1763.6	1822.6	1852.7	1859.0	167.5°	0.0	0.0	0.0	0.0	0.0
1510.5	1603.0	1721.7	1820.7	1878.7	1914.7	1917.9	170°	0.0	0.0	0.0	0.0	0.0
1560.4	1645.0	1760.9	1847.9	1906.0	1936.6	1947.5	172.5°	0.0	0.0	0.0	0.0	0.0
1711.5	1726.9	1806.0	1863.4	1904.0	1917.9	1926.2	175°	0.0	0.0	0.0	0.0	0.0
1782.2	1717.8	1708.7	1744.3	1747.8	1738.8	1727.4	177.5°	0.0	0.0	0.0	0.0	0.0
1683.7	1533.0	1477.4	1472.5	1457.9	1452.0	1415.5	180°	0.0	0.0	0.0	0.0	0.0
1462.4	1245.1	1146.7	1093.2	1125.7	1124.5	1087.3						
1232.0	1011.0	883.2	806.5	797.0	795.4	763.0						
1000.7	793.5	681.5	644.4	599.6	586.1	591.7						
721.5	566.4	542.7	571.1	574.6	564.5	557.3						
454.5	426.0	449.0	500.7	531.2	517.7	522.9						
378.9	335.3	337.0	391.6	412.1	415.3	404.7						
420.5	335.8	275.3	268.5	261.5	164.5	229.0						
378.9	259.9	153.1	126.2	77.5	44.6	46.4						
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	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						



REPORT NUMBER: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
0.0	0.0	0.0	0.0	0.0	0.0	0°	776.5	776.5	776.5	776.5	776.5	776.5
0.0	0.0	0.0	0.0	0.0	0.0	2.5°	864.6	857.2	848.8	837.7	839.7	826.4
0.0	0.0	0.0	0.0	0.0	0.0	5°	910.2	897.0	879.4	856.7	835.7	808.8
0.0	0.0	0.0	0.0	0.0	0.0	7.5°	905.4	884.4	854.7	820.7	793.0	754.3
0.0	0.0	0.0	0.0	0.0	0.0	10°	864.6	837.3	813.2	778.0	742.0	708.0
0.0	0.0	0.0	0.0	0.0	0.0	12.5°	807.7	792.2	771.3	744.8	710.0	675.2
0.0	0.0	0.0	0.0	0.0	0.0	15°	745.5	746.9	734.2	727.0	709.6	681.9
0.0	0.0	0.0	0.0	0.0	0.0	17.5°	694.6	706.3	713.2	724.2	726.2	712.7
0.0	0.0	0.0	0.0	0.0	0.0	20°	660.5	677.1	698.2	728.5	760.7	774.5
0.0	0.0	0.0	0.0	0.0	0.0	22.5°	641.6	662.1	695.7	751.2	809.6	844.9
0.0	0.0	0.0	0.0	0.0	0.0	25°	638.0	665.3	712.4	780.0	855.9	905.4
0.0	0.0	0.0	0.0	0.0	0.0	27.5°	643.9	679.5	735.4	812.3	887.2	958.9
0.0	0.0	0.0	0.0	0.0	0.0	30°	662.9	704.5	765.4	848.4	926.0	997.1
0.0	0.0	0.0	0.0	0.0	0.0	32.5°	681.2	732.5	799.9	880.9	958.9	1029.5
0.0	0.0	0.0	0.0	0.0	0.0	35°	710.4	762.2	831.0	905.9	981.3	1061.5
0.0	0.0	0.0	0.0	0.0	0.0	37.5°	755.0	800.6	855.5	925.2	1003.9	1086.9
0.0	0.0	0.0	0.0	0.0	0.0	40°	818.7	848.8	884.4	939.4	1014.9	1103.9
0.0	0.0	0.0	0.0	0.0	0.0	42.5°	914.0	920.4	932.7	961.2	1024.9	1123.7
0.0	0.0	0.0	0.0	0.0	0.0	45°	1037.0	1018.0	1007.4	1003.5	1047.0	1136.4
0.0	0.0	0.0	0.0	0.0	0.0	47.5°	1179.8	1142.6	1100.0	1079.4	1089.6	1156.6
0.0	0.0	0.0	0.0	0.0	0.0	50°	1365.7	1305.2	1221.3	1162.0	1156.9	1215.9
0.0	0.0	0.0	0.0	0.0	0.0	52.5°	1536.2	1457.1	1351.5	1281.5	1253.0	1326.5
0.0	0.0	0.0	0.0	0.0	0.0	55°	1697.2	1636.4	1516.9	1429.8	1420.0	1473.3
0.0	0.0	0.0	0.0	0.0	0.0	57.5°	1838.4	1785.8	1688.2	1574.5	1578.5	1630.3
0.0	0.0	0.0	0.0	0.0	0.0	59°	1911.6	1867.7	1777.0	1661.7	1670.3	1741.5
0.0	0.0	0.0	0.0	0.0	0.0	60°	1937.7	1900.9	1814.7	1717.4	1728.5	1802.4
0.0	0.0	0.0	0.0	0.0	0.0	62.5°	1935.7	1912.0	1849.5	1803.5	1860.2	1914.4
0.0	0.0	0.0	0.0	0.0	0.0	65°	1751.1	1715.0	1707.9	1788.2	1897.4	1949.6
0.0	0.0	0.0	0.0	0.0	0.0	67.5°	1392.6	1409.7	1477.4	1615.3	1798.5	1874.4
						70°	1034.3	1064.4	1154.5	1327.8	1579.4	1710.6
						72.5°	760.7	790.7	873.7	1063.5	1299.3	1415.5
						75°	596.8	606.0	665.6	814.9	1024.0	1119.4
						77.5°	551.4	524.1	499.5	579.5	690.5	772.5
						80°	513.4	461.5	403.9	428.0	454.8	541.9
						82.5°	398.7	364.4	319.2	350.0	362.6	365.5
						85°	233.4	207.7	263.0	372.5	368.7	322.7
						87.5°	82.3	106.8	120.2	206.5	249.5	216.0
						90°	0.0	1.2	3.5	4.0	5.9	2.0
						92.5°	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
						97.5°	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
						102.5°	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
						107.5°	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271766

CATALOG NUMBER: ISW-AF-450-LED-E1-SLR-7027

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
776.5	776.5	776.5	110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
815.6	804.5	803.7	112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
787.5	762.6	754.7	115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
720.7	691.8	685.9	117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
664.5	632.5	626.8	120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
635.6	605.2	598.5	122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
646.7	613.0	609.5	125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
688.2	652.6	654.2	127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
759.3	736.5	731.0	130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
852.9	827.9	820.7	132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
932.4	919.7	914.8	135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
989.7	995.5	990.8	137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1035.5	1055.3	1052.9	140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1082.5	1120.9	1122.5	142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1117.4	1185.0	1198.9	145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1162.0	1252.7	1266.9	147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1196.1	1302.5	1319.9	150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1229.3	1343.7	1362.5	152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1256.5	1384.4	1403.7	155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1287.5	1423.9	1442.9	157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1342.9	1486.0	1508.5	160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1461.9	1601.0	1633.2	162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1633.9	1760.0	1785.4	165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1789.0	1868.0	1874.9	167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1852.7	1897.8	1895.7	170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1899.4	1904.9	1893.8	172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1924.7	1872.1	1853.0	175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1858.6	1785.4	1760.5	177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1668.0	1629.2	1600.7	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1418.7	1320.7	1302.1								
1075.5	946.2	918.4								
751.5	596.5	558.8								
494.0	382.9	368.7								
320.3	254.3	250.0								
223.5	166.9	153.9								
137.2	55.8	53.4								
42.7	25.7	23.0								
1.2	1.5	1.5								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								

