

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: P227296

Luminaire Tested: **ISW-AF-1000-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-1000-LED-E1-SLR-8030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5997.1 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

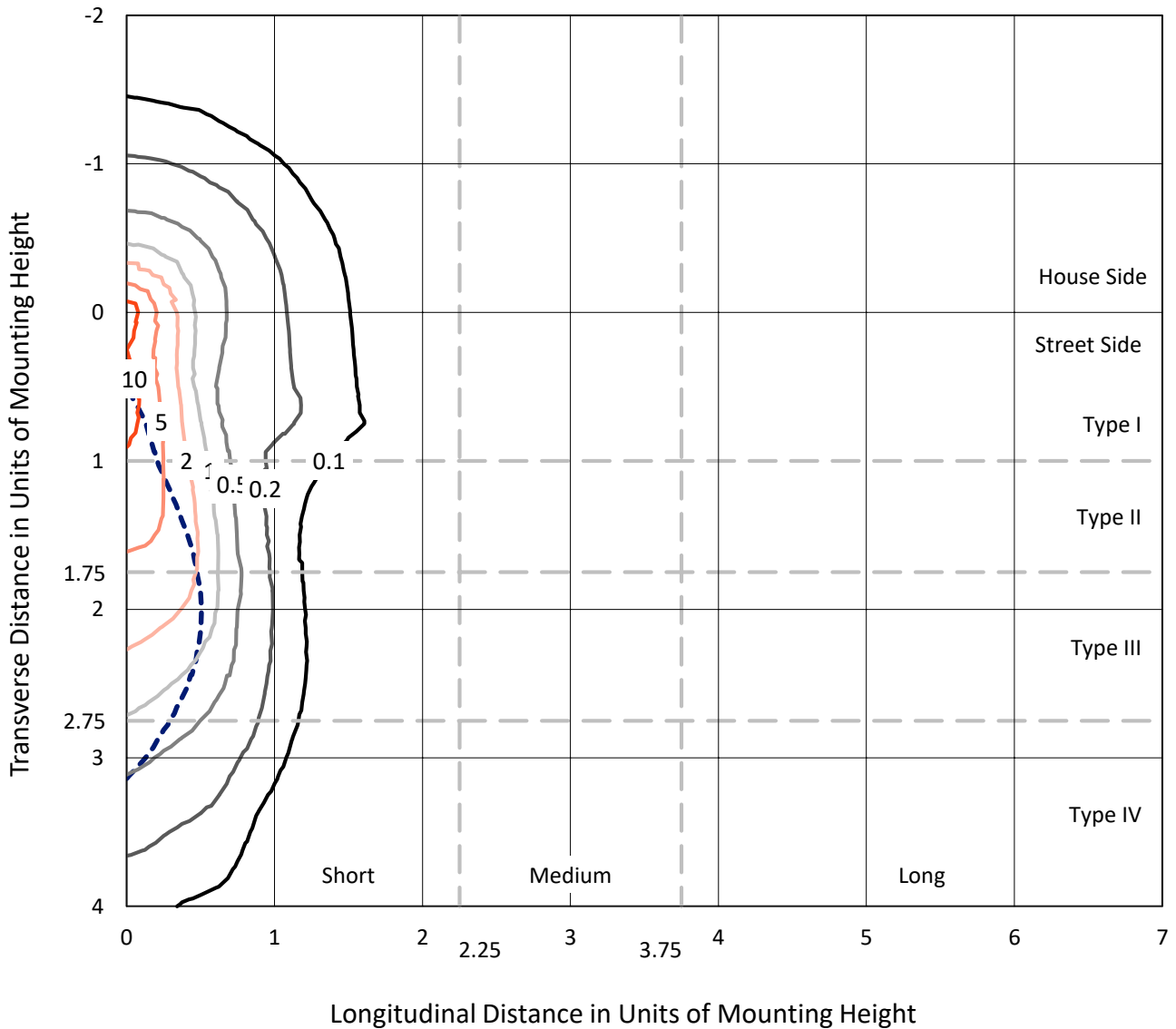
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227296
 CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

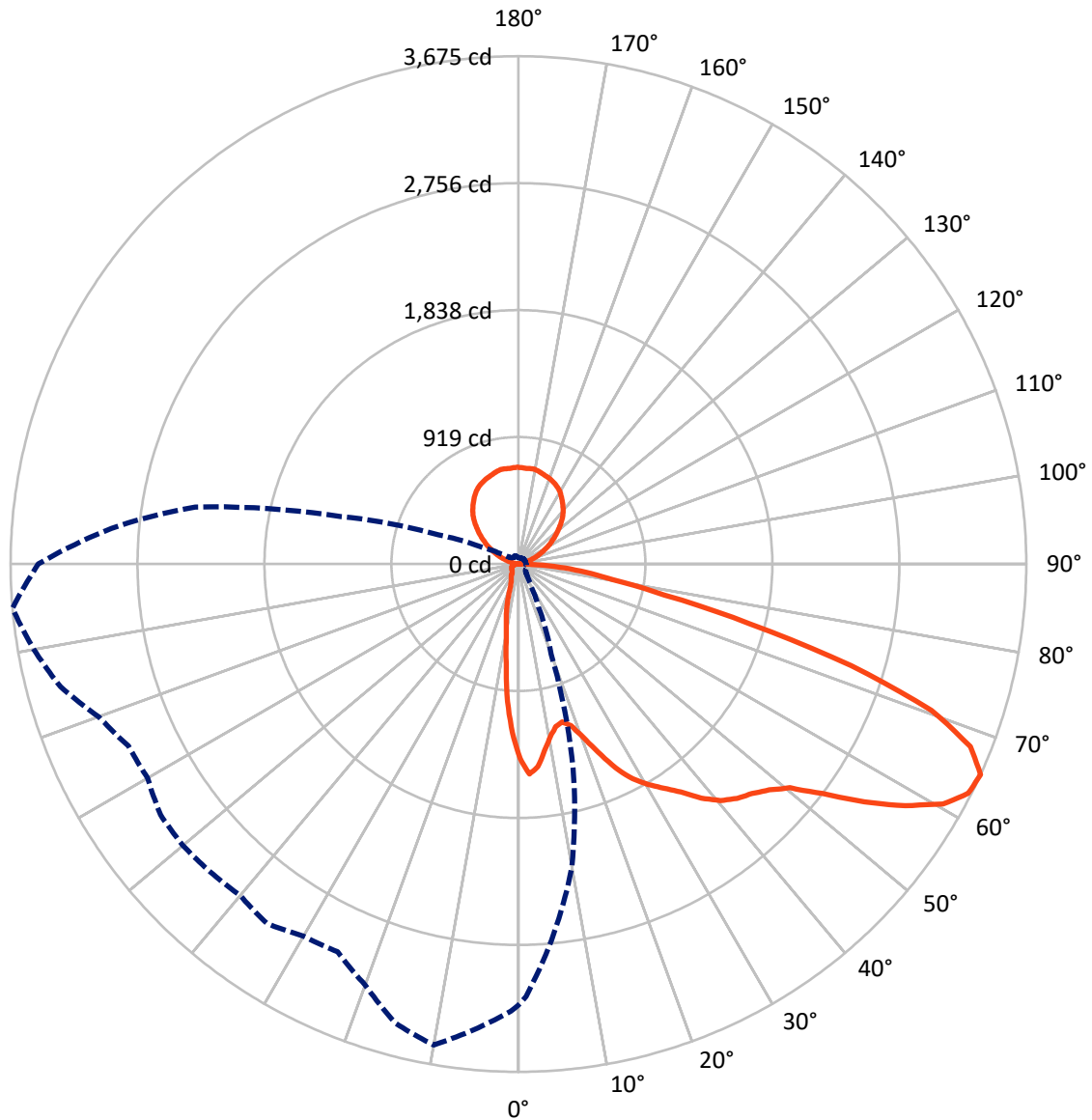


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

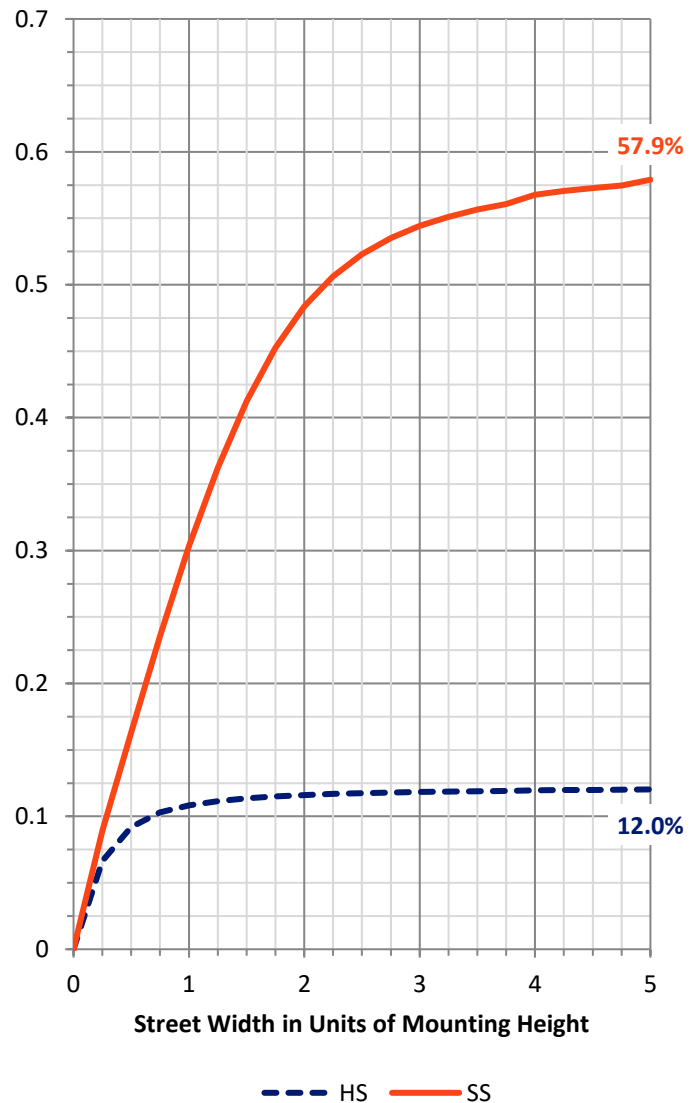
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.4	867.6	1599.0
	% Fixture	12.2	14.5	26.7
Street Side	Lumens	3530.4	867.7	4398.1
	% Fixture	58.9	14.5	73.3
Total	Lumens	4261.8	1735.3	5997.1
	% Fixture	71.1	28.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.7
10°-20°	200.7	3.3
20°-30°	286.1	4.8
30°-40°	415.1	6.9
40°-50°	593.8	9.9
50°-60°	911.7	15.2
60°-70°	1055.3	17.6
70°-80°	538.4	9.0
80°-90°	156.4	2.6
90°-100°	9.5	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.8
120°-130°	273.2	4.6
130°-140°	336.8	5.6
140°-150°	344.6	5.7
150°-160°	290.3	4.8
160°-170°	191.2	3.2
170°-180°	66.3	1.1
0°-90°	4261.8	71.1
0°-180°	5997.1	100.0



REPORT NUMBER: P227296

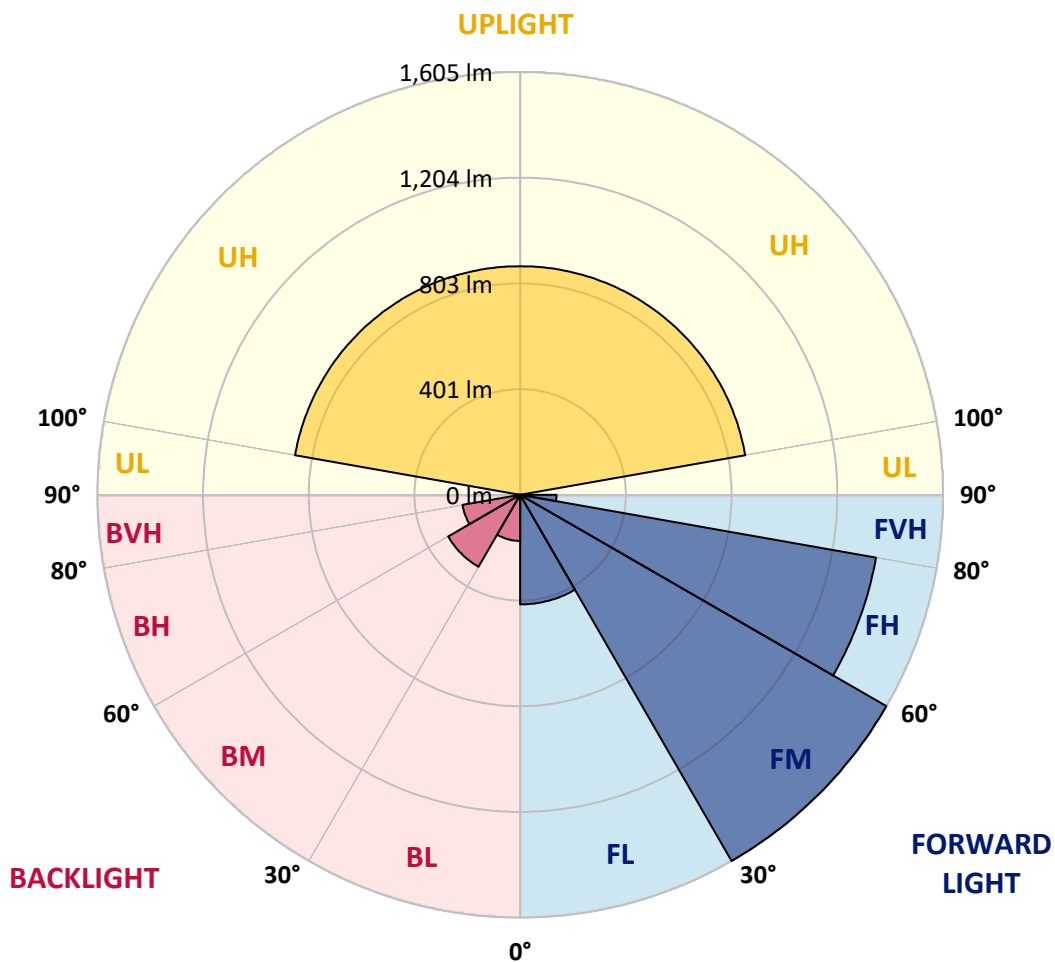
CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.1	6.9			
FM	(30°-60°)	1605.1	26.8			
FH	(60°-80°)	1371.4	22.9			G1/1800
FVH	(80°-90°)	137.8	2.3			G2/225
BL	(0°-30°)	175.0	2.9	B1/500		
BM	(30°-60°)	315.6	5.3	B1/1000		
BH	(60°-80°)	222.3	3.7	B1/500		G1/500
BVH	(80°-90°)	18.6	0.3			G1/100
UL	(90°-100°)	9.5	0.2		U1/10	
UH	(100°-180°)	867.6	14.5		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7
2.5°	1457.1	1448.5	1437.8	1419.1	1402.6	1379.0	1373.2	1343.8	1325.2	1329.5	1295.8
5°	1368.2	1363.2	1336.7	1295.1	1267.8	1214.0	1183.2	1167.4	1123.0	1117.2	1105.0
7.5°	1243.4	1228.4	1185.4	1133.7	1087.1	1047.7	998.2	960.2	926.5	905.7	869.1
10°	1136.6	1120.8	1074.2	1011.1	955.2	900.0	859.8	810.3	762.3	725.0	695.6
12.5°	1085.0	1067.8	1013.3	940.1	877.7	808.9	752.2	703.5	676.9	658.3	633.9
15°	1105.0	1079.9	1014.7	927.2	849.8	776.6	716.4	664.0	632.5	603.8	575.1
17.5°	1186.1	1155.2	1080.7	975.2	867.7	773.0	687.0	627.5	577.3	534.2	495.5
20°	1325.2	1302.2	1194.0	1046.2	906.4	775.2	661.9	583.7	522.8	468.3	416.6
22.5°	1488.0	1453.5	1347.4	1142.3	955.9	788.1	646.1	547.1	474.7	401.6	345.6
25°	1658.6	1632.1	1491.6	1271.4	1031.9	814.6	633.9	514.9	418.1	337.0	275.4
27.5°	1796.3	1772.7	1633.5	1395.5	1101.5	837.6	616.0	484.0	372.9	275.4	207.2
30°	1908.9	1888.8	1743.3	1497.3	1186.1	845.5	590.9	448.2	322.7	222.3	171.4
32.5°	2035.1	2012.9	1848.7	1568.3	1224.1	838.3	562.2	414.5	282.5	196.5	147.0
35°	2173.5	2147.7	1966.3	1645.0	1255.6	813.2	537.8	390.1	263.2	178.6	130.5
37.5°	2296.8	2280.4	2072.4	1721.0	1291.5	771.6	514.2	363.6	250.3	165.6	117.6
40°	2392.9	2388.6	2190.0	1784.1	1319.5	741.5	494.8	342.8	233.8	160.6	113.3
42.5°	2470.4	2469.0	2286.1	1840.8	1326.6	714.9	479.7	324.1	218.7	148.4	115.5
45°	2545.0	2544.2	2379.3	1919.7	1331.6	716.4	468.3	312.7	205.8	140.6	109.0
47.5°	2616.0	2626.7	2476.8	2029.4	1384.7	740.8	464.0	301.9	195.8	131.9	103.3
50°	2735.0	2724.2	2631.0	2177.8	1470.0	788.1	456.8	292.6	186.4	124.1	97.5
52.5°	2960.9	2948.7	2865.5	2376.4	1563.3	836.8	447.5	279.7	175.7	115.5	91.1
55°	3237.0	3253.4	3138.0	2618.1	1690.2	877.7	437.4	262.5	161.3	105.4	86.8
57.5°	3399.0	3385.4	3253.4	2757.2	1768.4	898.5	431.0	242.4	139.1	96.8	82.5
59°	3437.0	3414.1	3234.1	2780.9	1789.1	888.5	427.4	223.0	127.6	92.5	80.3
60°	3433.4	3405.5	3203.3	2765.8	1794.9	876.3	421.7	211.5	121.2	90.4	79.6
62.5°	3359.6	3315.8	3028.3	2583.7	1714.6	815.3	398.0	184.3	112.6	87.5	75.3
65°	3191.8	3130.1	2734.3	2228.0	1530.3	694.1	344.2	174.3	114.7	86.1	72.4
67.5°	2902.1	2852.6	2356.4	1843.6	1219.8	560.8	297.6	170.0	117.6	87.5	68.1
70°	2360.7	2318.4	1838.6	1380.4	913.6	446.0	270.3	167.8	115.5	83.9	64.5
72.5°	1665.1	1591.9	1221.9	966.6	579.4	358.5	234.5	158.5	112.6	81.0	58.8
75°	1013.3	1026.9	776.6	704.2	365.7	246.0	184.3	133.4	99.7	72.4	53.1
77.5°	668.3	667.6	573.0	496.9	185.7	152.7	130.5	102.5	78.2	59.5	45.9
80°	453.2	458.2	415.9	339.2	103.3	91.8	85.3	74.6	57.4	45.2	38.0
82.5°	278.9	279.7	322.0	253.9	68.8	58.1	54.5	50.2	40.9	35.1	29.4
85°	96.8	99.0	112.6	179.3	46.6	38.0	38.0	35.1	30.8	23.7	19.4
87.5°	41.6	40.9	48.8	48.8	22.9	19.4	17.9	17.9	17.2	12.9	10.8
90°	7.9	7.2	7.2	8.9	10.6	12.5	12.3	13.0	13.0	11.8	9.9
92.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	16.5	21.0
102.5°	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	33.5	40.0
105°	21.0	21.2	22.0	24.5	27.0	31.5	36.0	42.0	48.0	55.5	63.0
107.5°	41.0	41.2	42.0	45.5	49.0	53.5	58.0	65.5	73.0	80.5	88.0



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	66.0	66.4	68.0	71.0	74.0	80.5	87.0	94.5	102.0	108.0	114.0
112.5°	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	138.5	143.0
115°	140.0	139.8	139.0	143.0	147.0	153.0	159.0	163.5	168.0	171.0	174.0
117.5°	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.5	205.0
120°	225.0	224.6	223.0	224.5	226.0	229.5	233.0	235.0	237.0	240.0	243.0
122.5°	263.0	262.4	260.0	260.5	261.0	264.0	267.0	269.0	271.0	274.0	277.0
125°	298.0	297.2	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.5	310.0
127.5°	330.0	329.8	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.5	340.0
130°	363.0	362.6	361.0	361.5	362.0	364.0	366.0	368.0	370.0	371.0	372.0
132.5°	396.0	395.6	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.5	405.0
135°	429.0	428.4	426.0	426.0	426.0	429.0	432.0	433.5	435.0	436.0	437.0
137.5°	460.0	459.4	457.0	458.0	459.0	459.5	460.0	462.0	464.0	466.0	468.0
140°	488.0	487.4	485.0	486.0	487.0	488.0	489.0	490.0	491.0	494.0	497.0
142.5°	518.0	517.4	515.0	516.0	517.0	517.5	518.0	519.5	521.0	523.0	525.0
145°	550.0	549.2	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.5	551.0
147.5°	575.0	574.4	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.5	575.0
150°	595.0	594.4	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	610.4	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0
155°	629.0	628.2	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.0	628.0
157.5°	646.0	645.4	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.5	645.0
160°	663.0	662.4	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0
162.5°	673.0	672.2	669.0	669.0	669.0	667.0	665.0	663.0	661.0	662.0	663.0
165°	681.0	680.4	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0
167.5°	690.0	689.4	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.5	685.0
170°	698.0	697.4	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.0	691.0
172.5°	699.0	698.6	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0
175°	700.0	699.6	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.5	690.0
177.5°	707.0	706.6	705.0	702.5	700.0	699.5	699.0	698.0	697.0	696.0	695.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7
2.5°	1285.7	1277.9	1255.6	1249.9	1257.1	1242.7	1239.1	1235.6	1209.0	1222.6	1206.9
5°	1074.9	1072.8	1027.6	1036.9	1027.6	1011.8	1005.4	1020.4	993.9	999.6	1003.2
7.5°	826.1	817.5	787.4	767.3	755.1	744.3	730.7	708.5	725.7	722.1	749.4
10°	670.5	651.8	633.2	605.2	589.5	574.4	558.6	550.0	529.9	527.8	518.5
12.5°	614.5	588.0	564.4	540.0	523.5	493.4	468.3	452.5	439.6	419.5	404.4
15°	540.0	517.7	486.9	463.2	437.4	410.2	385.8	365.7	356.4	337.8	329.1
17.5°	464.7	431.0	393.7	370.0	334.2	306.2	286.1	273.2	259.6	248.1	238.1
20°	374.3	330.6	290.4	260.3	232.3	205.1	195.8	180.0	174.3	170.0	173.5
22.5°	284.7	239.5	197.9	175.0	159.9	152.7	144.9	142.0	139.8	139.1	140.6
25°	208.7	170.7	150.6	142.0	136.2	131.9	129.1	126.9	125.5	124.8	125.5
27.5°	161.3	141.3	131.2	125.5	121.2	118.3	116.9	114.7	114.0	113.3	114.0
30°	139.8	129.1	121.9	116.2	111.1	106.1	104.0	103.3	104.0	104.7	104.0
32.5°	121.9	114.0	106.1	101.1	97.5	94.7	94.7	93.2	93.2	95.4	96.1
35°	110.4	102.5	96.8	90.4	86.1	83.2	81.0	79.6	80.3	80.3	82.5
37.5°	101.1	95.4	90.4	84.6	80.3	77.4	76.0	74.6	73.9	73.1	73.1
40°	94.7	91.1	86.8	81.0	76.7	73.9	72.4	71.0	70.3	69.6	69.6
42.5°	94.7	87.5	84.6	79.6	74.6	71.7	69.6	68.1	66.7	66.7	66.7
45°	104.0	89.6	84.6	78.9	73.9	70.3	68.1	66.0	64.5	64.5	63.8
47.5°	101.1	100.4	86.1	78.9	74.6	70.3	67.4	65.3	63.8	63.1	62.4
50°	96.1	104.7	96.1	81.0	74.6	69.6	66.7	64.5	62.4	61.7	61.7
52.5°	93.2	97.5	99.7	83.9	75.3	69.6	66.0	63.8	62.4	61.0	60.2
55°	86.1	91.8	95.4	82.5	75.3	68.1	64.5	62.4	60.2	59.5	58.8
57.5°	78.9	83.2	91.8	82.5	73.1	67.4	63.1	60.2	58.8	58.1	57.4
59°	76.7	76.7	81.7	84.6	71.7	66.7	62.4	59.5	58.1	57.4	55.9
60°	74.6	74.6	77.4	86.8	71.0	66.0	61.7	58.8	56.7	56.7	55.9
62.5°	71.7	69.6	71.0	81.0	68.8	64.5	60.2	57.4	55.2	55.2	54.5
65°	68.1	65.3	65.3	67.4	64.5	61.7	58.8	55.9	53.1	53.1	53.8
67.5°	64.5	61.7	61.0	61.0	59.5	58.8	55.9	53.1	51.6	51.6	51.6
70°	59.5	57.4	56.7	55.2	55.2	54.5	52.3	50.2	48.8	49.5	48.8
72.5°	53.8	52.3	50.9	50.9	50.2	49.5	47.3	45.9	45.2	45.9	45.9
75°	48.0	45.9	45.9	44.5	44.5	43.7	41.6	40.9	40.2	40.9	41.6
77.5°	40.9	39.4	38.7	38.7	38.7	38.7	35.9	35.1	35.1	36.6	36.6
80°	33.7	33.0	32.3	32.3	32.3	31.6	30.1	29.4	29.4	30.1	30.8
82.5°	25.8	24.4	24.4	25.1	25.8	25.8	23.7	22.2	22.2	23.7	25.1
85°	17.2	17.2	17.2	17.9	17.9	18.6	17.2	15.1	15.8	16.5	18.6
87.5°	9.3	10.0	9.3	8.6	10.0	9.3	9.3	8.6	9.3	10.0	10.8
90°	9.9	9.9	10.2	10.4	9.7	10.4	9.4	9.2	7.7	7.7	9.4
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7
2.5°	1221.2	1209.0	1202.6	1227.7	1225.5	1204.0	1204.0	1219.1	1219.8	1206.9	1221.9
5°	1007.5	995.3	1006.8	996.8	1002.5	1001.8	1010.4	994.6	1001.1	995.3	981.7
7.5°	747.2	771.6	784.5	768.0	788.8	799.6	784.5	799.6	775.9	756.5	775.2
10°	514.2	541.4	536.4	562.9	573.0	578.7	589.5	575.8	559.3	554.3	540.7
12.5°	398.7	393.0	390.8	401.6	408.0	398.7	406.6	398.0	389.4	374.3	373.6
15°	311.9	302.6	296.2	284.0	279.7	281.8	285.4	285.4	268.2	268.9	275.4
17.5°	236.6	234.5	229.5	219.4	213.0	215.1	214.4	210.8	208.7	210.1	218.0
20°	177.8	175.7	178.6	181.4	179.3	180.0	177.1	173.5	172.1	173.5	175.0
22.5°	140.6	143.4	147.0	151.3	152.0	155.6	154.9	155.6	152.7	151.3	147.7
25°	128.4	129.8	127.6	128.4	128.4	131.9	131.2	131.2	128.4	127.6	128.4
27.5°	113.3	112.6	112.6	114.0	114.0	116.2	117.6	116.2	113.3	112.6	113.3
30°	104.7	104.0	103.3	104.0	103.3	104.0	105.4	105.4	104.0	101.8	102.5
32.5°	96.1	96.1	95.4	96.1	95.4	95.4	96.8	94.7	94.7	93.9	93.9
35°	84.6	86.1	87.5	88.2	88.2	88.2	89.6	87.5	86.8	86.1	86.1
37.5°	73.1	74.6	78.9	81.0	81.7	83.2	83.9	82.5	81.0	79.6	78.2
40°	69.6	69.6	71.0	73.9	76.7	77.4	78.9	76.7	76.0	73.9	71.7
42.5°	66.7	67.4	67.4	68.1	68.8	70.3	72.4	70.3	68.8	67.4	65.3
45°	64.5	64.5	64.5	64.5	63.8	63.8	64.5	63.1	62.4	61.7	61.7
47.5°	63.1	62.4	61.7	61.0	60.2	59.5	59.5	58.1	58.1	58.1	58.1
50°	61.7	60.2	59.5	58.8	57.4	57.4	57.4	55.9	55.2	55.2	55.9
52.5°	59.5	58.8	58.1	57.4	56.7	55.9	55.9	54.5	53.8	53.8	53.8
55°	58.8	58.1	56.7	55.9	55.2	55.9	55.2	54.5	53.1	53.1	53.1
57.5°	56.7	57.4	56.7	55.2	55.2	55.2	55.2	53.8	53.1	51.6	52.3
59°	55.9	56.7	55.9	55.2	54.5	55.2	55.2	53.1	52.3	51.6	51.6
60°	55.2	55.9	55.2	54.5	54.5	55.2	54.5	53.8	52.3	50.2	50.9
62.5°	54.5	54.5	53.8	53.8	53.1	53.8	53.1	51.6	50.2	48.8	48.0
65°	53.1	53.1	52.3	52.3	51.6	51.6	51.6	50.2	48.8	47.3	47.3
67.5°	52.3	51.6	50.9	50.9	50.2	50.2	50.2	48.8	46.6	45.9	45.2
70°	49.5	48.8	48.8	48.0	47.3	48.0	48.8	46.6	44.5	43.0	42.3
72.5°	46.6	45.9	45.9	45.2	45.2	45.9	46.6	44.5	41.6	40.2	39.4
75°	42.3	41.6	41.6	41.6	41.6	43.0	43.0	40.9	38.7	36.6	35.1
77.5°	36.6	37.3	37.3	37.3	37.3	38.7	38.7	37.3	35.1	33.7	31.6
80°	31.6	31.6	32.3	32.3	33.0	33.0	32.3	31.6	30.8	29.4	26.5
82.5°	26.5	26.5	26.5	26.5	26.5	25.8	24.4	25.8	25.8	24.4	22.2
85°	20.8	20.8	20.8	21.5	21.5	19.4	17.2	17.2	19.4	18.6	17.2
87.5°	12.2	12.2	12.9	15.1	13.6	12.9	10.8	11.5	10.8	12.2	10.0
90°	11.9	11.2	11.2	8.7	8.4	7.0	7.0	7.5	8.0	8.0	8.0
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



REPORT NUMBER: P227296
 CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	59°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	60°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	62.5°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	65°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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: P227296
 NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	110°	80.5
1223.4	1226.2	1232.7	1230.5	1254.2	1247.0	1263.5	1285.7	1306.5	1296.5	1299.4	112.5°	113.5
1006.1	1009.7	982.4	998.9	1023.3	1013.3	1009.7	1042.7	1034.8	1072.1	1041.2	115°	153.0
745.1	736.5	723.5	717.1	699.2	699.2	732.9	747.9	745.8	771.6	798.1	117.5°	193.0
523.5	513.4	497.7	493.4	511.3	519.9	535.0	550.0	570.1	599.5	616.7	120°	229.5
384.4	380.8	384.4	395.1	411.6	423.8	446.7	473.3	495.5	519.2	542.1	122.5°	264.0
290.4	297.6	306.9	314.1	327.0	349.9	362.1	391.5	411.6	432.4	458.9	125°	297.5
225.9	230.2	232.3	235.2	246.0	262.5	262.5	292.6	319.1	346.4	368.6	127.5°	331.0
172.1	172.1	164.9	169.2	170.7	169.2	177.8	195.0	212.3	230.2	265.3	130°	364.0
144.1	139.8	137.7	137.0	137.7	140.6	145.6	152.0	154.9	162.8	176.4	132.5°	397.0
127.6	126.9	124.8	124.8	126.2	126.9	131.9	137.7	139.1	141.3	146.3	135°	429.0
112.6	114.0	116.2	115.5	116.2	117.6	121.2	126.2	129.1	129.8	133.4	137.5°	459.5
101.8	103.3	104.0	106.1	106.1	106.8	109.7	114.7	116.9	120.5	124.1	140°	488.0
94.7	95.4	96.1	95.4	96.1	96.1	99.7	104.7	107.6	109.7	111.9	142.5°	517.5
86.8	86.1	86.1	86.1	83.9	83.2	84.6	89.6	90.4	92.5	97.5	145°	545.5
77.4	75.3	73.9	73.9	73.9	74.6	78.2	83.2	83.9	86.1	90.4	147.5°	572.5
68.8	68.1	68.1	68.8	69.6	71.0	73.9	78.9	79.6	81.7	85.3	150°	593.0
64.5	64.5	64.5	65.3	66.0	66.7	70.3	75.3	76.7	78.9	83.2	152.5°	608.5
61.7	62.4	61.7	61.7	62.4	63.8	67.4	73.1	75.3	77.4	81.7	155°	626.0
59.5	59.5	59.5	60.2	60.2	61.7	66.0	71.7	73.1	76.0	82.5	157.5°	643.5
56.7	58.1	57.4	58.1	58.8	60.2	64.5	70.3	72.4	76.7	83.9	160°	657.5
55.2	55.2	55.2	55.9	57.4	58.1	61.7	68.1	71.0	76.7	88.2	162.5°	667.0
54.5	53.1	53.1	53.8	55.2	56.7	60.2	66.7	70.3	76.0	87.5	165°	676.0
53.8	51.6	50.9	51.6	53.1	53.8	58.1	64.5	69.6	73.9	84.6	167.5°	685.0
51.6	50.2	49.5	50.2	51.6	53.1	56.7	63.1	66.7	72.4	81.0	170°	692.0
50.9	48.8	48.8	49.5	50.9	51.6	55.2	61.7	65.3	73.1	83.2	172.5°	694.0
48.0	47.3	47.3	48.0	48.0	49.5	53.8	60.2	63.1	74.6	69.6	175°	696.0
45.9	45.9	45.9	45.9	46.6	47.3	52.3	58.8	60.2	64.5	59.5	177.5°	699.5
44.5	44.5	44.5	44.5	44.5	45.9	50.2	56.7	57.4	56.7	54.5	180°	700.0
41.6	41.6	41.6	41.6	42.3	43.0	47.3	53.1	53.1	51.6	51.6		
39.4	38.7	38.7	38.7	38.7	39.4	43.7	49.5	48.8	48.0	48.0		
35.1	35.1	35.1	35.1	35.1	35.1	39.4	45.2	44.5	43.7	43.0		
30.8	30.8	31.6	30.8	30.1	29.4	33.7	40.2	40.2	39.4	38.7		
26.5	25.8	26.5	25.8	24.4	24.4	28.0	33.7	34.4	33.7	32.3		
21.5	20.8	20.8	20.8	17.9	17.9	21.5	27.2	27.2	26.5	25.1		
16.5	15.8	15.1	14.3	12.2	12.2	15.1	20.1	20.8	17.9	17.2		
8.6	8.6	8.6	6.5	5.7	5.0	7.9	12.2	12.2	10.0	8.6		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.7	7.5	8.0	8.0		
5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0		
6.5	6.0	5.5	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0		
8.0	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5		
9.5	9.0	8.5	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0		
15.5	13.0	12.0	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5		
31.5	27.0	24.5	22.0	21.0	22.0	24.5	27.0	31.5	36.0	42.0		
53.5	49.0	45.5	42.0	41.0	42.0	45.5	49.0	53.5	58.0	65.5		

227296
 ISW-AF-1000-LED-E1-SLR-8030-ULG

REPORT NUMBER: P227296
 CATALOG NUMBER: ISW-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
74.0	71.0	68.0	66.0	68.0	71.0	74.0	80.5	87.0	94.5	0°	1407.7	1407.7
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1317.3	1323.8
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	1064.2	1089.3
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	804.6	838.3
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	644.7	667.6
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	565.8	598.8
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	485.5	521.3
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	398.0	441.7
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	304.0	347.1
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	213.7	250.3
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	155.6	172.1
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	138.4	144.9
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	129.8	134.1
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	116.9	121.2
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	102.5	108.3
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	95.4	99.7
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	91.1	91.8
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	87.5	87.5
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	85.3	87.5
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	86.8	96.1
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	97.5	94.7
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	99.7	88.9
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	91.1	85.3
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	81.7	74.6
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	73.1	68.8
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	68.1	66.7
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	62.4	63.8
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	58.1	61.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	55.9	58.1
										70°	52.3	53.8
										72.5°	48.8	49.5
										75°	43.7	44.5
										77.5°	38.7	38.7
										80°	31.6	31.6
										82.5°	24.4	23.7
										85°	15.8	15.1
										87.5°	7.2	5.7
										90°	8.0	7.5
										92.5°	6.0	6.0
										95°	7.0	7.0
										97.5°	9.0	9.0
										100°	12.0	16.5
										102.5°	27.0	33.5
										105°	48.0	55.5
										107.5°	73.0	80.5



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E:

000-LED-E1-SLR-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	110°	102.0	108.0	114.0
1356.0	1376.1	1391.9	1389.0	1422.7	1442.8	1445.7	1466.5	1486.5	112.5°	134.0	138.5	143.0
1109.3	1137.3	1164.6	1184.6	1237.7	1281.4	1315.1	1351.0	1393.3	115°	168.0	171.0	174.0
884.2	907.8	952.3	984.6	1040.5	1091.4	1140.9	1197.5	1245.6	117.5°	202.0	203.5	205.0
692.7	722.8	764.4	824.7	874.9	932.9	995.3	1049.1	1129.4	120°	237.0	240.0	243.0
622.4	641.1	675.5	704.2	766.6	828.2	898.5	972.4	1046.2	122.5°	271.0	274.0	277.0
550.0	583.0	615.3	656.9	711.4	778.8	854.8	934.4	1017.6	125°	305.0	307.5	310.0
479.7	523.5	558.6	603.8	664.7	750.1	849.0	948.0	1045.5	127.5°	339.0	339.5	340.0
393.7	434.6	496.2	542.1	621.7	728.6	855.5	992.5	1124.4	130°	370.0	371.0	372.0
309.8	353.5	423.8	491.9	579.4	717.1	881.3	1065.6	1242.0	132.5°	404.0	404.5	405.0
221.6	281.1	350.7	436.7	542.8	709.9	916.4	1156.0	1393.3	135°	435.0	436.0	437.0
165.6	207.2	291.9	385.8	502.0	697.0	953.7	1239.9	1496.6	137.5°	464.0	466.0	468.0
147.7	177.1	232.3	331.3	451.8	671.9	981.7	1319.5	1590.5	140°	491.0	494.0	497.0
129.1	152.0	195.8	279.7	406.6	633.2	993.9	1361.8	1655.8	142.5°	521.0	523.0	525.0
113.3	134.8	179.3	259.6	383.6	589.5	991.7	1404.1	1737.5	145°	550.0	550.5	551.0
103.3	121.9	172.1	254.6	365.7	549.3	993.9	1472.2	1858.7	147.5°	574.0	574.5	575.0
95.4	116.9	166.4	243.8	357.1	527.1	1002.5	1532.4	1962.7	150°	593.0	593.0	593.0
95.4	115.5	152.0	228.8	352.8	529.2	1006.1	1579.0	2040.1	152.5°	610.0	610.0	610.0
100.4	108.3	141.3	220.1	355.7	545.0	1001.8	1626.4	2115.4	155°	630.0	629.0	628.0
95.4	101.1	134.1	218.7	355.7	556.5	1014.7	1685.2	2214.4	157.5°	646.0	645.5	645.0
90.4	93.9	131.9	216.6	348.5	567.2	1067.8	1794.9	2343.5	160°	655.0	655.0	655.0
83.9	88.2	129.1	213.0	340.6	580.8	1161.7	1979.2	2557.2	162.5°	661.0	662.0	663.0
76.0	84.6	124.8	207.2	335.6	605.2	1257.8	2165.6	2811.7	165°	673.0	673.0	673.0
73.1	81.0	114.7	193.6	330.6	631.8	1360.3	2344.2	3040.5	167.5°	688.0	686.5	685.0
71.0	78.2	106.1	183.6	326.3	644.7	1391.2	2412.3	3128.7	170°	693.0	692.0	691.0
69.6	76.7	101.1	175.0	321.3	645.4	1413.4	2438.1	3141.6	172.5°	690.0	690.0	690.0
67.4	73.9	91.1	157.0	305.5	644.7	1415.5	2454.6	3104.3	175°	691.0	690.5	690.0
63.8	71.0	91.8	147.7	276.8	614.5	1326.6	2375.0	2955.9	177.5°	697.0	696.0	695.0
61.0	68.8	96.8	149.9	246.7	537.1	1160.3	2127.6	2638.2	180°	700.0	700.0	700.0
56.7	67.4	101.1	154.9	238.1	446.0	877.7	1737.5	2209.4				
52.3	66.7	104.7	158.5	228.8	367.2	608.1	1232.0	1653.6				
47.3	61.0	95.4	134.8	189.3	266.8	391.5	806.0	1140.2				
40.9	48.8	69.6	94.7	139.1	186.4	231.6	486.9	745.8				
33.7	36.6	49.5	61.0	92.5	110.4	128.4	274.6	521.3				
25.1	25.8	33.7	38.7	52.3	61.0	76.7	168.5	422.4				
14.3	16.5	22.9	25.8	31.6	38.7	50.2	107.6	331.3				
5.7	7.2	13.6	15.1	17.2	21.5	28.0	62.4	103.3				
7.0	7.0	7.0	8.0	9.0	9.0	9.0	8.0	7.0				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-803C

1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	1407.7	1407.7	1407.7	1407.7
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1506.6	1521.7	1534.6	1544.6
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1438.5	1473.6	1515.9	1551.8
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1317.3	1361.8	1430.6	1472.9
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1202.6	1267.8	1343.1	1404.1
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	1124.4	1205.4	1277.1	1345.3
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	1102.9	1185.4	1249.9	1312.3
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	1145.9	1228.4	1283.6	1321.6
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1247.0	1335.2	1370.4	1367.5
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1385.4	1477.9	1477.9	1449.2
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1568.3	1635.0	1598.4	1543.9
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1698.1	1760.5	1696.6	1607.0
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1805.6	1851.5	1770.5	1662.2
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1900.3	1934.0	1827.2	1720.3
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	2013.6	2025.8	1886.0	1771.9
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	2139.1	2149.1	1970.6	1828.6
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	2286.8	2251.0	2033.0	1880.9
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2377.9	2319.1	2078.1	1908.2
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2449.6	2369.3	2098.9	1924.0
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2537.8	2443.1	2135.5	1952.6
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	2654.0	2545.7	2228.0	2033.7
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	2892.0	2757.9	2394.4	2174.9
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	3166.0	3039.0	2660.4	2408.0
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	3385.4	3300.1	2897.8	2618.8
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	3466.4	3429.9	3065.6	2797.4
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	3496.5	3528.1	3154.5	2906.4
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	3517.3	3654.3	3443.5	3231.9
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	3474.3	3675.1	3560.4	3430.6
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	3287.2	3527.4	3505.1	3391.1
								70°	2904.2	3171.7	3249.1	3087.1
								72.5°	2185.0	2517.0	2939.4	2685.5
								75°	1423.4	1730.3	2509.8	2300.4
								77.5°	891.3	1079.9	1790.6	1611.3
								80°	593.0	694.1	1136.6	1034.8
								82.5°	446.0	491.9	781.6	735.0
								85°	235.2	299.7	608.1	770.9
								87.5°	88.2	98.2	457.5	689.1
								90°	7.0	7.0	8.7	9.0
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0

REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

J-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7	110°	117.0	116.0	117.5	119.0	120.0
1553.2	1566.1	1574.0	1568.3	1577.6	1579.8	1569.7	112.5°	147.0	147.0	148.0	149.0	149.5
1581.9	1617.8	1643.6	1661.5	1668.7	1675.1	1672.3	115°	178.0	177.0	178.0	179.0	180.5
1528.8	1584.1	1632.1	1665.1	1676.6	1685.2	1677.3	117.5°	209.0	208.0	209.0	210.0	212.5
1470.0	1527.4	1572.6	1605.6	1604.9	1613.5	1598.4	120°	243.0	243.0	244.0	245.0	247.5
1414.8	1470.8	1510.9	1509.5	1499.4	1474.3	1470.0	122.5°	277.0	276.0	277.0	278.0	280.5
1371.1	1400.5	1410.5	1408.4	1379.7	1365.3	1363.2	125°	310.0	310.0	310.0	310.0	312.5
1349.6	1348.1	1325.2	1300.1	1272.8	1271.4	1252.8	127.5°	347.0	345.0	345.5	346.0	346.0
1353.2	1306.5	1264.2	1221.2	1191.8	1185.4	1187.5	130°	380.0	379.0	380.0	381.0	381.0
1398.3	1315.9	1236.3	1192.5	1158.1	1148.1	1152.4	132.5°	415.0	414.0	414.0	414.0	415.0
1455.0	1344.5	1245.6	1178.9	1150.9	1138.7	1140.9	135°	451.0	450.0	448.5	447.0	447.5
1493.0	1377.5	1276.4	1194.0	1156.0	1144.5	1151.7	137.5°	482.0	481.0	478.5	476.0	475.5
1541.7	1422.7	1318.0	1232.7	1176.0	1161.0	1166.0	140°	511.0	509.0	506.5	504.0	503.0
1589.8	1471.5	1376.8	1280.0	1211.2	1183.2	1191.1	142.5°	536.0	534.0	533.5	533.0	533.0
1641.4	1528.1	1432.8	1344.5	1263.5	1219.8	1229.8	145°	560.0	558.0	559.5	561.0	561.5
1701.7	1594.1	1512.3	1431.3	1348.1	1311.6	1315.9	147.5°	585.0	583.0	584.5	586.0	585.5
1759.7	1658.6	1606.3	1546.1	1497.3	1441.4	1441.4	150°	610.0	606.0	604.5	603.0	601.5
1794.2	1742.5	1728.2	1711.0	1682.3	1642.1	1633.5	152.5°	628.0	623.0	620.5	618.0	616.0
1836.5	1842.2	1875.2	1909.6	1918.2	1878.8	1866.6	155°	641.0	638.0	637.0	636.0	633.5
1916.1	1976.3	2084.6	2178.5	2197.2	2229.4	2192.2	157.5°	655.0	650.0	650.0	650.0	649.0
2027.9	2139.1	2321.9	2475.4	2519.1	2522.0	2524.9	160°	666.0	660.0	660.5	661.0	662.5
2155.6	2314.8	2556.4	2739.3	2817.5	2838.3	2823.2	162.5°	674.0	668.0	669.0	670.0	670.5
2374.3	2518.4	2783.0	2980.2	3080.6	3129.4	3116.5	165°	682.0	678.0	679.0	680.0	678.5
2590.9	2770.1	3003.2	3197.5	3304.4	3358.9	3370.3	167.5°	694.0	688.0	688.0	688.0	686.0
2738.6	2906.4	3121.5	3300.8	3406.2	3471.4	3477.2	170°	701.0	696.0	695.0	694.0	691.5
2828.9	2982.4	3192.5	3350.3	3455.7	3510.9	3531.0	172.5°	701.0	696.0	695.0	694.0	693.0
3102.9	3130.8	3274.2	3378.2	3452.1	3477.2	3492.2	175°	699.0	694.0	695.0	696.0	695.5
3231.2	3114.3	3097.8	3162.4	3168.8	3152.3	3131.5	177.5°	702.0	698.0	699.5	701.0	700.0
3052.7	2779.5	2678.3	2669.7	2643.2	2632.4	2566.5	180°	700.0	700.0	700.0	700.0	700.0
2651.1	2257.4	2078.9	1982.0	2040.8	2038.7	1971.3						
2233.7	1832.9	1601.3	1462.2	1444.9	1442.1	1383.3						
1814.2	1438.5	1235.6	1168.1	1087.1	1062.7	1072.8						
1308.0	1026.9	983.9	1035.5	1041.9	1023.3	1010.4						
823.9	772.3	813.9	907.8	963.1	938.7	948.0						
687.0	608.1	611.0	709.9	747.2	752.9	733.6						
762.3	608.8	499.1	486.9	474.0	298.3	415.2						
687.0	471.1	277.5	228.8	140.6	81.0	83.9						
9.0	9.0	8.0	7.0	7.0	7.0	7.5						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	1407.7	1407.7	1407.7	1407.7	1407.7	1407.7
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1567.6	1553.9	1538.9	1518.8	1522.4	1498.0
182.0	180.5	179.0	176.5	174.0	171.0	5°	1650.0	1626.4	1594.1	1553.2	1515.2	1466.5
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1641.4	1603.4	1549.6	1488.0	1437.8	1367.5
250.0	248.0	246.0	244.5	243.0	240.0	10°	1567.6	1518.1	1474.3	1410.5	1345.3	1283.6
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1464.3	1436.3	1398.3	1350.3	1287.2	1224.1
315.0	314.0	313.0	311.5	310.0	307.5	15°	1351.7	1353.9	1330.9	1318.0	1286.5	1236.3
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1259.2	1280.7	1292.9	1313.0	1316.6	1292.2
381.0	379.0	377.0	374.5	372.0	371.0	20°	1197.5	1227.7	1265.7	1320.9	1379.0	1404.1
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	1163.1	1200.4	1261.4	1361.8	1467.9	1531.7
448.0	445.5	443.0	440.0	437.0	436.0	25°	1156.7	1206.1	1291.5	1414.1	1551.8	1641.4
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	1167.4	1232.0	1333.1	1472.9	1608.4	1738.2
502.0	501.0	500.0	498.5	497.0	494.0	30°	1201.8	1277.1	1387.6	1538.2	1678.7	1807.8
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1234.8	1328.1	1450.0	1597.0	1738.2	1866.6
562.0	559.0	556.0	553.5	551.0	550.5	35°	1287.9	1381.8	1506.6	1642.1	1779.1	1924.7
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1368.9	1451.4	1551.1	1677.3	1820.0	1970.6
600.0	598.5	597.0	595.0	593.0	593.0	40°	1484.4	1538.9	1603.4	1703.1	1840.1	2001.4
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1657.2	1668.7	1690.9	1742.5	1858.0	2037.3
631.0	628.5	626.0	627.0	628.0	629.0	45°	1880.2	1845.8	1826.4	1819.3	1898.1	2060.2
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	2139.1	2071.7	1994.2	1956.9	1975.6	2096.8
664.0	661.0	658.0	656.5	655.0	655.0	50°	2476.1	2366.4	2214.4	2106.8	2097.5	2204.3
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	2785.2	2641.8	2450.3	2323.4	2271.7	2405.1
677.0	674.5	672.0	672.5	673.0	673.0	55°	3077.0	2966.6	2750.1	2592.3	2574.4	2671.2
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	3333.0	3237.7	3060.6	2854.7	2861.9	2955.9
689.0	687.5	686.0	688.5	691.0	692.0	59°	3465.7	3386.1	3221.9	3012.5	3028.3	3157.4
692.0	690.5	689.0	689.5	690.0	690.0	60°	3513.0	3446.3	3290.0	3113.6	3133.7	3267.8
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	3509.5	3466.4	3353.1	3269.9	3372.5	3470.7
699.0	696.5	694.0	694.5	695.0	696.0	65°	3174.6	3109.3	3096.4	3242.0	3439.9	3534.5
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2524.9	2555.7	2678.3	2928.6	3260.6	3398.3
						70°	1875.2	1929.7	2093.2	2407.3	2863.4	3101.4
						72.5°	1379.0	1433.5	1584.1	1928.3	2355.6	2566.5
						75°	1082.1	1098.6	1206.9	1477.2	1856.6	2029.4
						77.5°	999.6	950.1	905.7	1050.5	1252.0	1400.5
						80°	930.8	836.8	732.2	775.9	824.7	982.4
						82.5°	722.8	660.4	578.7	634.6	657.6	662.6
						85°	423.1	376.5	476.9	675.5	668.3	585.1
						87.5°	149.2	193.6	218.0	374.3	452.5	391.5
						90°	8.0	10.2	14.5	14.7	17.8	9.6
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



REPORT NUMBER: P227296

CATALOG NUMBER: ISW-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1407.7	1407.7	1407.7	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1478.6	1458.6	1457.1	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1427.7	1382.6	1368.2	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1306.5	1254.2	1243.4	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1204.7	1146.6	1136.6	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
1152.4	1097.2	1085.0	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
1172.4	1111.5	1105.0	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1247.7	1183.2	1186.1	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1376.8	1335.2	1325.2	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1546.1	1500.9	1488.0	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1690.2	1667.2	1658.6	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1794.2	1804.9	1796.3	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1877.3	1913.2	1908.9	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1962.7	2032.2	2035.1	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
2025.8	2148.4	2173.5	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
2106.8	2271.0	2296.8	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
2168.5	2361.4	2392.9	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
2228.7	2436.0	2470.4	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
2278.2	2509.8	2545.0	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
2334.1	2581.5	2616.0	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2434.5	2694.1	2735.0	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2650.4	2902.8	2960.9	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2962.3	3191.1	3237.0	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
3243.4	3386.8	3399.0	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
3358.9	3440.6	3437.0	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
3443.5	3453.5	3433.4	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
3489.4	3394.0	3359.6	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
3369.6	3237.0	3191.8	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
3024.0	2953.7	2902.1	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2572.2	2394.4	2360.7								
1949.8	1715.3	1665.1								
1362.5	1081.4	1013.3								
895.6	694.1	668.3								
580.8	461.1	453.2								
405.2	302.6	278.9								
248.8	101.1	96.8								
77.4	46.6	41.6								
7.2	7.9	7.9								
4.0	4.0	4.0								
5.0	5.0	5.0								
7.0	7.0	7.0								
8.0	8.0	8.0								
11.0	11.0	11.0								
22.0	21.2	21.0								
42.0	41.2	41.0								



359°	360°
66.4	66.0
99.0	99.0
139.8	140.0
184.0	184.0
224.6	225.0
262.4	263.0
297.2	298.0
329.8	330.0
362.6	363.0
395.6	396.0
428.4	429.0
459.4	460.0
487.4	488.0
517.4	518.0
549.2	550.0
574.4	575.0
594.4	595.0
610.4	611.0
628.2	629.0
645.4	646.0
662.4	663.0
672.2	673.0
680.4	681.0
689.4	690.0
697.4	698.0
698.6	699.0
699.6	700.0
706.6	707.0
700.0	700.0

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