

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: P227271

Luminaire Tested: **ISW-AF-800-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227271
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-800-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: 5341 lumens
Efficiency: N/A
Efficacy: 88.7 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): 60.2
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

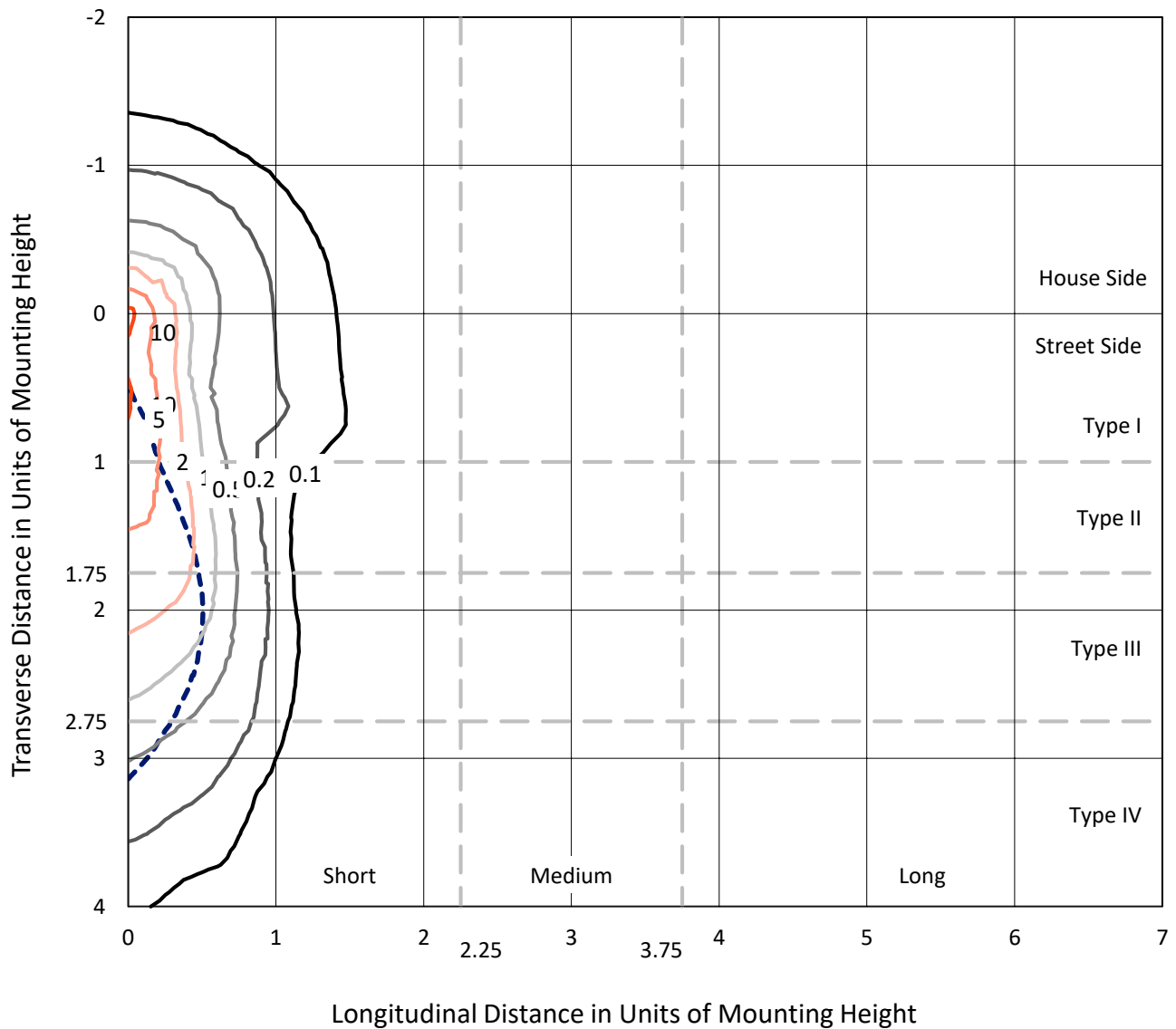


REPORT NUMBER: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

Iso-Footcandle Lines of Horizontal Illumination

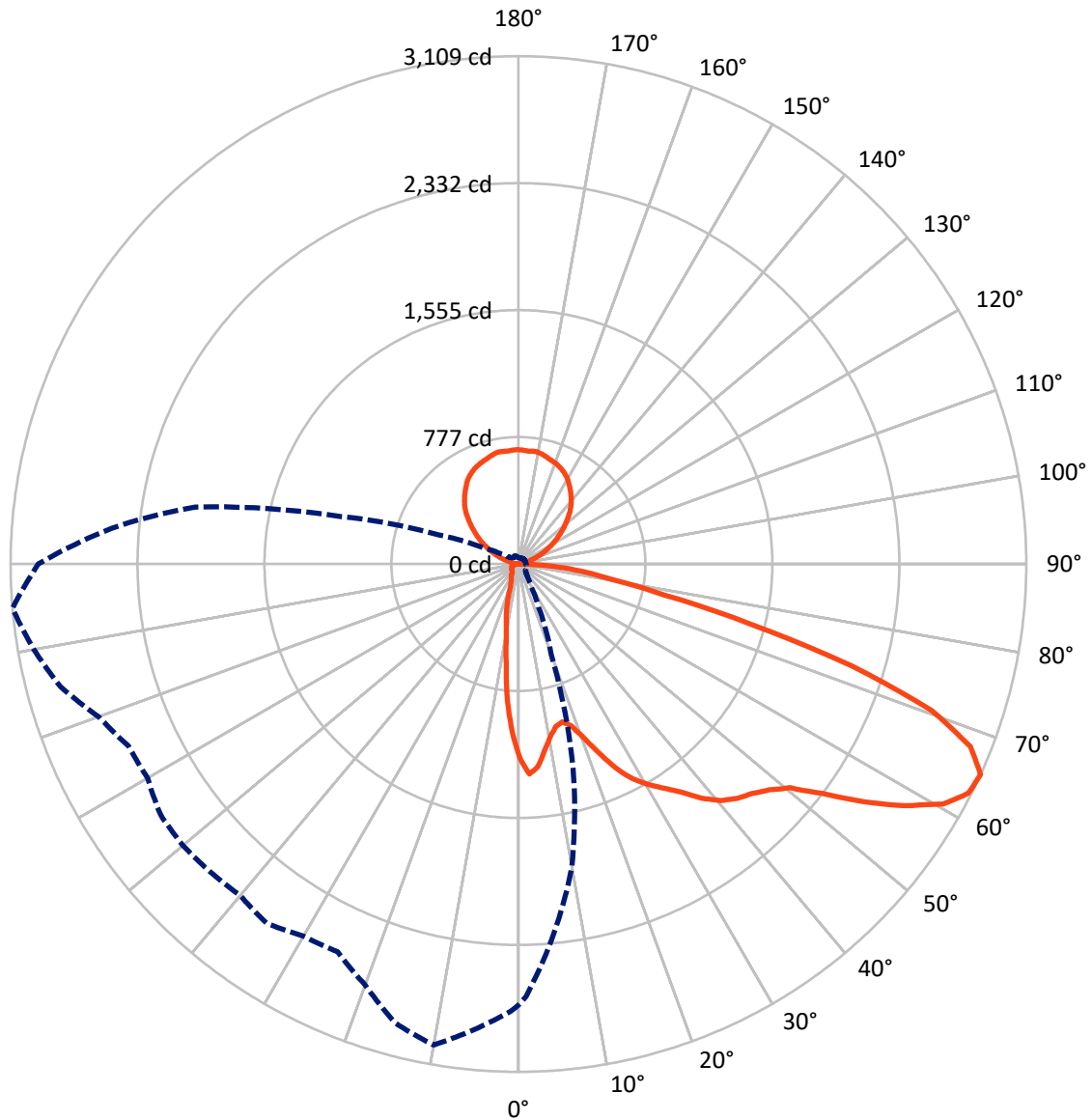
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P227271
CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

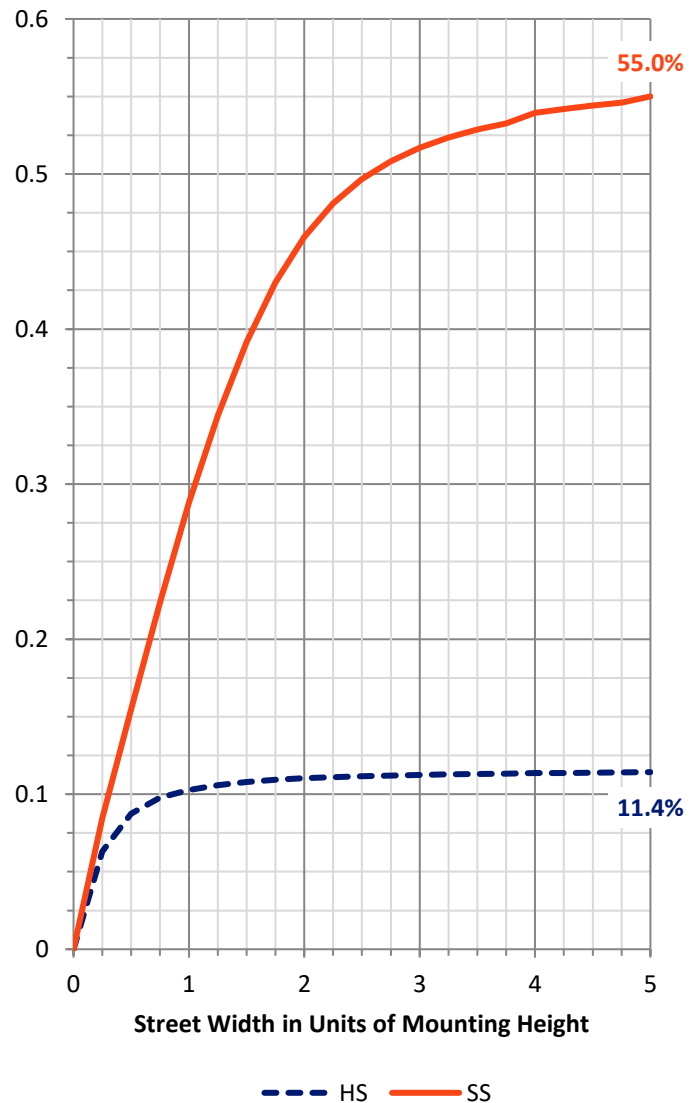
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.8	867.6	1486.4
	% Fixture	11.6	16.2	27.8
Street Side	Lumens	2986.9	867.7	3854.6
	% Fixture	55.9	16.2	72.2
Total	Lumens	3605.7	1735.3	5341.0
	% Fixture	67.5	32.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.7
10°-20°	169.8	3.2
20°-30°	242.1	4.5
30°-40°	351.2	6.6
40°-50°	502.4	9.4
50°-60°	771.3	14.4
60°-70°	892.8	16.7
70°-80°	455.5	8.5
80°-90°	132.5	2.5
90°-100°	9.4	0.2
100°-110°	57.4	1.1
110°-120°	166.1	3.1
120°-130°	273.2	5.1
130°-140°	336.8	6.3
140°-150°	344.6	6.5
150°-160°	290.3	5.4
160°-170°	191.2	3.6
170°-180°	66.3	1.2
0°-90°	3605.7	67.5
0°-180°	5341.0	100.0



REPORT NUMBER: P227271

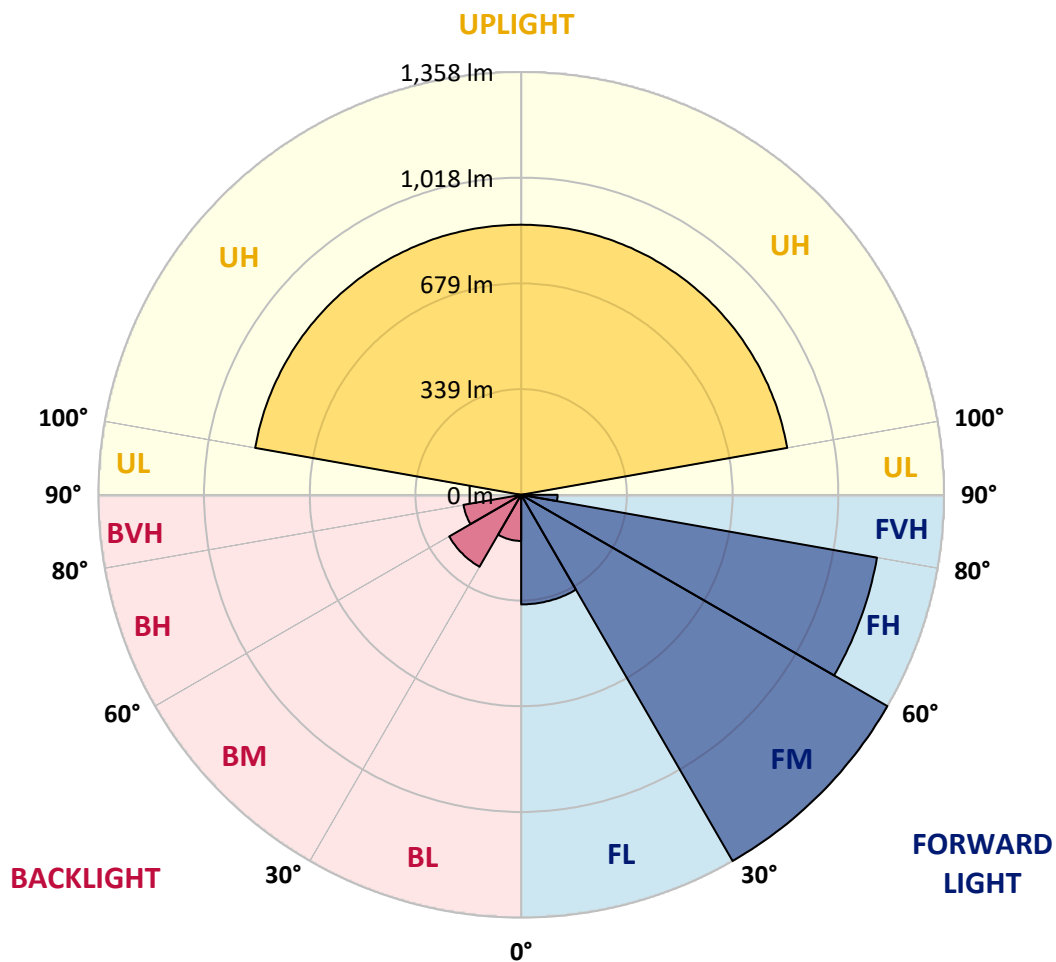
CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.1	6.6			
FM	(30°-60°)	1357.9	25.4			
FH	(60°-80°)	1160.2	21.7			G1/1800
FVH	(80°-90°)	116.7	2.2			G2/225
BL	(0°-30°)	148.0	2.8	B1/500		
BM	(30°-60°)	267.0	5.0	B1/1000		
BH	(60°-80°)	188.1	3.5	B1/500		G1/500
BVH	(80°-90°)	15.8	0.3			G1/100
UL	(90°-100°)	9.4	0.2		U1/10	
UH	(100°-180°)	867.6	16.2		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1232.8	1225.5	1216.4	1200.6	1186.6	1166.6	1161.8	1136.9	1121.1	1124.8	1096.3
5°	1157.5	1153.3	1130.8	1095.6	1072.6	1027.1	1001.0	987.7	950.0	945.2	934.9
7.5°	1052.0	1039.2	1002.8	959.1	919.7	886.3	844.5	812.3	783.8	766.2	735.3
10°	961.6	948.2	908.8	855.4	808.1	761.4	727.4	685.5	644.9	613.3	588.5
12.5°	917.9	903.3	857.2	795.3	742.6	684.3	636.4	595.1	572.7	556.9	536.3
15°	934.9	913.6	858.4	784.4	718.9	657.0	606.1	561.8	535.1	510.8	486.5
17.5°	1003.4	977.3	914.3	825.1	734.1	654.0	581.2	530.8	488.4	452.0	419.2
20°	1121.1	1101.7	1010.1	885.1	766.8	655.8	560.0	493.8	442.3	396.2	352.5
22.5°	1258.8	1229.7	1139.9	966.4	808.7	666.7	546.6	462.9	401.6	339.7	292.4
25°	1403.2	1380.8	1261.9	1075.6	873.0	689.2	536.3	435.6	353.7	285.1	233.0
27.5°	1519.7	1499.7	1382.0	1180.6	931.8	708.6	521.1	409.5	315.5	233.0	175.3
30°	1615.0	1598.0	1474.8	1266.7	1003.4	715.3	499.9	379.2	273.0	188.1	145.0
32.5°	1721.7	1702.9	1564.0	1326.8	1035.6	709.2	475.6	350.7	239.0	166.2	124.4
35°	1838.8	1817.0	1663.5	1391.7	1062.3	688.0	455.0	330.0	222.6	151.1	110.4
37.5°	1943.2	1929.2	1753.3	1456.0	1092.6	652.8	435.0	307.6	211.7	140.1	99.5
40°	2024.5	2020.8	1852.8	1509.4	1116.3	627.3	418.6	290.0	197.8	135.9	95.9
42.5°	2090.0	2088.8	1934.1	1557.3	1122.3	604.9	405.9	274.2	185.0	125.6	97.7
45°	2153.1	2152.5	2012.9	1624.1	1126.6	606.1	396.2	264.5	174.1	118.9	92.2
47.5°	2213.1	2222.2	2095.4	1716.9	1171.5	626.7	392.5	255.4	165.6	111.6	87.4
50°	2313.8	2304.7	2225.9	1842.5	1243.7	666.7	386.4	247.5	157.7	105.0	82.5
52.5°	2504.9	2494.6	2424.3	2010.5	1322.5	708.0	378.6	236.6	148.6	97.7	77.0
55°	2738.5	2752.5	2654.8	2215.0	1429.9	742.6	370.1	222.0	136.5	89.2	73.4
57.5°	2875.6	2864.1	2752.5	2332.6	1496.0	760.2	364.6	205.1	117.7	81.9	69.8
59°	2907.8	2888.4	2736.1	2352.7	1513.6	751.7	361.6	188.7	108.0	78.3	67.9
60°	2904.7	2881.1	2710.0	2339.9	1518.5	741.4	356.7	179.0	102.5	76.4	67.3
62.5°	2842.3	2805.2	2562.0	2185.8	1450.5	689.8	336.7	155.9	95.2	74.0	63.7
65°	2700.3	2648.1	2313.2	1884.9	1294.6	587.3	291.2	147.4	97.1	72.8	61.3
67.5°	2455.2	2413.3	1993.5	1559.8	1031.9	474.4	251.8	143.8	99.5	74.0	57.6
70°	1997.2	1961.4	1555.5	1167.8	772.9	377.3	228.7	142.0	97.7	71.0	54.6
72.5°	1408.7	1346.8	1033.8	817.8	490.2	303.3	198.4	134.1	95.2	68.6	49.7
75°	857.2	868.8	657.0	595.8	309.4	208.1	155.9	112.8	84.3	61.3	44.9
77.5°	565.4	564.8	484.7	420.4	157.1	129.2	110.4	86.8	66.1	50.4	38.8
80°	383.4	387.7	351.9	287.0	87.4	77.7	72.2	63.1	48.5	38.2	32.2
82.5°	236.0	236.6	272.4	214.8	58.2	49.1	46.1	42.5	34.6	29.7	24.9
85°	81.9	83.7	95.2	151.7	39.4	32.2	32.2	29.7	26.1	20.0	16.4
87.5°	35.2	34.6	41.3	41.3	19.4	16.4	15.2	15.2	14.6	10.9	9.1
90°	7.4	6.8	6.8	8.4	10.0	11.7	11.6	12.2	12.2	11.1	9.4
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: P227271

CATALOG NUMBER: ISW-AF-800-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: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1087.8	1081.1	1062.3	1057.4	1063.5	1051.4	1048.3	1045.3	1022.8	1034.4	1021.0
5°	909.4	907.6	869.4	877.2	869.4	856.0	850.6	863.3	840.8	845.7	848.7
7.5°	698.9	691.6	666.1	649.1	638.8	629.7	618.2	599.4	614.0	610.9	634.0
10°	567.2	551.5	535.7	512.0	498.7	485.9	472.6	465.3	448.3	446.5	438.6
12.5°	519.9	497.5	477.4	456.8	442.9	417.4	396.2	382.8	371.9	354.9	342.2
15°	456.8	438.0	411.9	391.9	370.1	347.0	326.4	309.4	301.5	285.7	278.5
17.5°	393.1	364.6	333.1	313.0	282.7	259.0	242.1	231.1	219.6	209.9	201.4
20°	316.7	279.7	245.7	220.2	196.6	173.5	165.6	152.3	147.4	143.8	146.8
22.5°	240.8	202.6	167.4	148.0	135.3	129.2	122.5	120.1	118.3	117.7	118.9
25°	176.5	144.4	127.4	120.1	115.3	111.6	109.2	107.4	106.2	105.6	106.2
27.5°	136.5	119.5	111.0	106.2	102.5	100.1	98.9	97.1	96.5	95.9	96.5
30°	118.3	109.2	103.1	98.3	94.0	89.8	88.0	87.4	88.0	88.6	88.0
32.5°	103.1	96.5	89.8	85.5	82.5	80.1	80.1	78.9	78.9	80.7	81.3
35°	93.4	86.8	81.9	76.4	72.8	70.4	68.6	67.3	67.9	67.9	69.8
37.5°	85.5	80.7	76.4	71.6	67.9	65.5	64.3	63.1	62.5	61.9	61.9
40°	80.1	77.0	73.4	68.6	64.9	62.5	61.3	60.1	59.5	58.8	58.8
42.5°	80.1	74.0	71.6	67.3	63.1	60.7	58.8	57.6	56.4	56.4	56.4
45°	88.0	75.8	71.6	66.7	62.5	59.5	57.6	55.8	54.6	54.6	54.0
47.5°	85.5	84.9	72.8	66.7	63.1	59.5	57.0	55.2	54.0	53.4	52.8
50°	81.3	88.6	81.3	68.6	63.1	58.8	56.4	54.6	52.8	52.2	52.2
52.5°	78.9	82.5	84.3	71.0	63.7	58.8	55.8	54.0	52.8	51.6	51.0
55°	72.8	77.7	80.7	69.8	63.7	57.6	54.6	52.8	51.0	50.4	49.7
57.5°	66.7	70.4	77.7	69.8	61.9	57.0	53.4	51.0	49.7	49.1	48.5
59°	64.9	64.9	69.2	71.6	60.7	56.4	52.8	50.4	49.1	48.5	47.3
60°	63.1	63.1	65.5	73.4	60.1	55.8	52.2	49.7	47.9	47.9	47.3
62.5°	60.7	58.8	60.1	68.6	58.2	54.6	51.0	48.5	46.7	46.7	46.1
65°	57.6	55.2	55.2	57.0	54.6	52.2	49.7	47.3	44.9	44.9	45.5
67.5°	54.6	52.2	51.6	51.6	50.4	49.7	47.3	44.9	43.7	43.7	43.7
70°	50.4	48.5	47.9	46.7	46.7	46.1	44.3	42.5	41.3	41.9	41.3
72.5°	45.5	44.3	43.1	43.1	42.5	41.9	40.0	38.8	38.2	38.8	38.8
75°	40.6	38.8	38.8	37.6	37.6	37.0	35.2	34.6	34.0	34.6	35.2
77.5°	34.6	33.4	32.8	32.8	32.8	32.8	30.3	29.7	29.7	30.9	30.9
80°	28.5	27.9	27.3	27.3	27.3	26.7	25.5	24.9	24.9	25.5	26.1
82.5°	21.8	20.6	20.6	21.2	21.8	21.8	20.0	18.8	18.8	20.0	21.2
85°	14.6	14.6	14.6	15.2	15.2	15.8	14.6	12.7	13.3	14.0	15.8
87.5°	7.9	8.5	7.9	7.3	8.5	7.9	7.9	7.3	7.9	8.5	9.1
90°	9.4	9.4	9.8	10.2	9.6	10.2	9.2	8.8	7.6	7.6	9.2
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: P227271

CATALOG NUMBER: ISW-AF-800-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: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1033.2	1022.8	1017.4	1038.6	1036.8	1018.6	1018.6	1031.3	1031.9	1021.0	1033.8
5°	852.4	842.1	851.8	843.3	848.1	847.5	854.8	841.5	846.9	842.1	830.5
7.5°	632.2	652.8	663.7	649.7	667.3	676.4	663.7	676.4	656.4	640.0	655.8
10°	435.0	458.0	453.8	476.2	484.7	489.6	498.7	487.2	473.2	469.0	457.4
12.5°	337.3	332.5	330.6	339.7	345.2	337.3	344.0	336.7	329.4	316.7	316.1
15°	263.9	256.0	250.6	240.2	236.6	238.4	241.5	241.5	226.9	227.5	233.0
17.5°	200.2	198.4	194.1	185.6	180.2	182.0	181.4	178.4	176.5	177.8	184.4
20°	150.5	148.6	151.1	153.5	151.7	152.3	149.8	146.8	145.6	146.8	148.0
22.5°	118.9	121.3	124.4	128.0	128.6	131.6	131.0	131.6	129.2	128.0	125.0
25°	108.6	109.8	108.0	108.6	108.6	111.6	111.0	111.0	108.6	108.0	108.6
27.5°	95.9	95.2	95.2	96.5	96.5	98.3	99.5	98.3	95.9	95.2	95.9
30°	88.6	88.0	87.4	88.0	87.4	88.0	89.2	89.2	88.0	86.1	86.8
32.5°	81.3	81.3	80.7	81.3	80.7	80.7	81.9	80.1	80.1	79.5	79.5
35°	71.6	72.8	74.0	74.6	74.6	74.6	75.8	74.0	73.4	72.8	72.8
37.5°	61.9	63.1	66.7	68.6	69.2	70.4	71.0	69.8	68.6	67.3	66.1
40°	58.8	58.8	60.1	62.5	64.9	65.5	66.7	64.9	64.3	62.5	60.7
42.5°	56.4	57.0	57.0	57.6	58.2	59.5	61.3	59.5	58.2	57.0	55.2
45°	54.6	54.6	54.6	54.6	54.0	54.0	54.6	53.4	52.8	52.2	52.2
47.5°	53.4	52.8	52.2	51.6	51.0	50.4	50.4	49.1	49.1	49.1	49.1
50°	52.2	51.0	50.4	49.7	48.5	48.5	48.5	47.3	46.7	46.7	47.3
52.5°	50.4	49.7	49.1	48.5	47.9	47.3	47.3	46.1	45.5	45.5	45.5
55°	49.7	49.1	47.9	47.3	46.7	47.3	46.7	46.1	44.9	44.9	44.9
57.5°	47.9	48.5	47.9	46.7	46.7	46.7	46.7	45.5	44.9	43.7	44.3
59°	47.3	47.9	47.3	46.7	46.1	46.7	46.7	44.9	44.3	43.7	43.7
60°	46.7	47.3	46.7	46.1	46.1	46.7	46.1	45.5	44.3	42.5	43.1
62.5°	46.1	46.1	45.5	45.5	44.9	45.5	44.9	43.7	42.5	41.3	40.6
65°	44.9	44.9	44.3	44.3	43.7	43.7	43.7	42.5	41.3	40.0	40.0
67.5°	44.3	43.7	43.1	43.1	42.5	42.5	42.5	41.3	39.4	38.8	38.2
70°	41.9	41.3	41.3	40.6	40.0	40.6	41.3	39.4	37.6	36.4	35.8
72.5°	39.4	38.8	38.8	38.2	38.2	38.8	39.4	37.6	35.2	34.0	33.4
75°	35.8	35.2	35.2	35.2	35.2	36.4	36.4	34.6	32.8	30.9	29.7
77.5°	30.9	31.5	31.5	31.5	31.5	32.8	32.8	31.5	29.7	28.5	26.7
80°	26.7	26.7	27.3	27.3	27.9	27.9	27.3	26.7	26.1	24.9	22.4
82.5°	22.4	22.4	22.4	22.4	22.4	21.8	20.6	21.8	21.8	20.6	18.8
85°	17.6	17.6	17.6	18.2	18.2	16.4	14.6	14.6	16.4	15.8	14.6
87.5°	10.3	10.3	10.9	12.7	11.5	10.9	9.1	9.7	9.1	10.3	8.5
90°	11.4	10.8	10.8	8.6	8.2	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: P227271
 CATALOG NUMBER: ISW-AF-800-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: P227271
 NUMBER: ISW-AF-800-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°
1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	110°	80.5
1035.0	1037.4	1042.9	1041.0	1061.1	1055.0	1069.0	1087.8	1105.4	1096.9	1099.3	112.5°	113.5
851.2	854.2	831.1	845.1	865.7	857.2	854.2	882.1	875.4	907.0	880.9	115°	153.0
630.3	623.1	612.1	606.7	591.5	591.5	620.0	632.8	630.9	652.8	675.2	117.5°	193.0
442.9	434.4	421.0	417.4	432.6	439.8	452.6	465.3	482.3	507.2	521.7	120°	229.5
325.2	322.1	325.2	334.3	348.2	358.5	378.0	400.4	419.2	439.2	458.6	122.5°	264.0
245.7	251.8	259.7	265.7	276.6	296.1	306.4	331.2	348.2	365.8	388.3	125°	297.5
191.1	194.7	196.6	199.0	208.1	222.0	222.0	247.5	270.0	293.0	311.8	127.5°	331.0
145.6	145.6	139.5	143.2	144.4	143.2	150.5	165.0	179.6	194.7	224.5	130°	364.0
121.9	118.3	116.5	115.9	116.5	118.9	123.2	128.6	131.0	137.7	149.2	132.5°	397.0
108.0	107.4	105.6	105.6	106.8	107.4	111.6	116.5	117.7	119.5	123.8	135°	429.0
95.2	96.5	98.3	97.7	98.3	99.5	102.5	106.8	109.2	109.8	112.8	137.5°	459.5
86.1	87.4	88.0	89.8	89.8	90.4	92.8	97.1	98.9	101.9	105.0	140°	488.0
80.1	80.7	81.3	80.7	81.3	81.3	84.3	88.6	91.0	92.8	94.6	142.5°	517.5
73.4	72.8	72.8	72.8	71.0	70.4	71.6	75.8	76.4	78.3	82.5	145°	545.5
65.5	63.7	62.5	62.5	62.5	63.1	66.1	70.4	71.0	72.8	76.4	147.5°	572.5
58.2	57.6	57.6	58.2	58.8	60.1	62.5	66.7	67.3	69.2	72.2	150°	593.0
54.6	54.6	54.6	55.2	55.8	56.4	59.5	63.7	64.9	66.7	70.4	152.5°	608.5
52.2	52.8	52.2	52.2	52.8	54.0	57.0	61.9	63.7	65.5	69.2	155°	626.0
50.4	50.4	50.4	51.0	51.0	52.2	55.8	60.7	61.9	64.3	69.8	157.5°	643.5
47.9	49.1	48.5	49.1	49.7	51.0	54.6	59.5	61.3	64.9	71.0	160°	657.5
46.7	46.7	46.7	47.3	48.5	49.1	52.2	57.6	60.1	64.9	74.6	162.5°	667.0
46.1	44.9	44.9	45.5	46.7	47.9	51.0	56.4	59.5	64.3	74.0	165°	676.0
45.5	43.7	43.1	43.7	44.9	45.5	49.1	54.6	58.8	62.5	71.6	167.5°	685.0
43.7	42.5	41.9	42.5	43.7	44.9	47.9	53.4	56.4	61.3	68.6	170°	692.0
43.1	41.3	41.3	41.9	43.1	43.7	46.7	52.2	55.2	61.9	70.4	172.5°	694.0
40.6	40.0	40.0	40.6	40.6	41.9	45.5	51.0	53.4	63.1	58.8	175°	696.0
38.8	38.8	38.8	38.8	39.4	40.0	44.3	49.7	51.0	54.6	50.4	177.5°	699.5
37.6	37.6	37.6	37.6	37.6	38.8	42.5	47.9	48.5	47.9	46.1	180°	700.0
35.2	35.2	35.2	35.2	35.8	36.4	40.0	44.9	44.9	43.7	43.7		
33.4	32.8	32.8	32.8	32.8	33.4	37.0	41.9	41.3	40.6	40.6		
29.7	29.7	29.7	29.7	29.7	29.7	33.4	38.2	37.6	37.0	36.4		
26.1	26.1	26.7	26.1	25.5	24.9	28.5	34.0	34.0	33.4	32.8		
22.4	21.8	22.4	21.8	20.6	20.6	23.7	28.5	29.1	28.5	27.3		
18.2	17.6	17.6	17.6	15.2	15.2	18.2	23.1	23.1	22.4	21.2		
14.0	13.3	12.7	12.1	10.3	10.3	12.7	17.0	17.6	15.2	14.6		
7.3	7.3	7.3	5.5	4.9	4.2	6.7	10.3	10.3	8.5	7.3		
7.5	7.0	6.0	5.0	5.0	5.0	6.0	7.6	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		

227271
 ISW-AF-800-LED-E1-SLR-8030-ULG

REPORT NUMBER: P227271
 CATALOG NUMBER: ISW-AF-80

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°	1190.9	1190.9
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	1114.5	1119.9
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	900.3	921.5
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	680.7	709.2
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	545.4	564.8
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	478.7	506.6
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	410.7	441.0
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	336.7	373.7
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	257.2	293.6
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	180.8	211.7
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	131.6	145.6
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	117.1	122.5
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	109.8	113.4
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	98.9	102.5
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	86.8	91.6
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	80.7	84.3
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	77.0	77.7
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	74.0	74.0
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	72.2	74.0
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	73.4	81.3
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	82.5	80.1
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	84.3	75.2
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	77.0	72.2
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	69.2	63.1
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	61.9	58.2
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	57.6	56.4
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	52.8	54.0
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	49.1	51.6
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	47.3	49.1
										70°	44.3	45.5
										72.5°	41.3	41.9
										75°	37.0	37.6
										77.5°	32.8	32.8
										80°	26.7	26.7
										82.5°	20.6	20.0
										85°	13.3	12.7
										87.5°	6.1	4.9
										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: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-

00-LED-E1-SLR-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	110°	102.0	108.0	114.0
1147.2	1164.2	1177.5	1175.1	1203.6	1220.6	1223.0	1240.6	1257.6	112.5°	134.0	138.5	143.0
938.5	962.2	985.2	1002.2	1047.1	1084.1	1112.6	1143.0	1178.8	115°	168.0	171.0	174.0
748.0	768.0	805.7	833.0	880.3	923.4	965.2	1013.1	1053.8	117.5°	202.0	203.5	205.0
586.0	611.5	646.7	697.7	740.1	789.3	842.1	887.6	955.5	120°	237.0	240.0	243.0
526.6	542.4	571.5	595.8	648.5	700.7	760.2	822.6	885.1	122.5°	271.0	274.0	277.0
465.3	493.2	520.5	555.7	601.8	658.8	723.2	790.5	860.9	125°	305.0	307.5	310.0
405.9	442.9	472.6	510.8	562.4	634.6	718.3	802.0	884.5	127.5°	339.0	339.5	340.0
333.1	367.6	419.8	458.6	526.0	616.4	723.8	839.6	951.3	130°	370.0	371.0	372.0
262.1	299.1	358.5	416.2	490.2	606.7	745.6	901.5	1050.8	132.5°	404.0	404.5	405.0
187.5	237.8	296.7	369.5	459.2	600.6	775.3	978.0	1178.8	135°	435.0	436.0	437.0
140.1	175.3	246.9	326.4	424.7	589.7	806.9	1048.9	1266.1	137.5°	464.0	466.0	468.0
125.0	149.8	196.6	280.3	382.2	568.5	830.5	1116.3	1345.6	140°	491.0	494.0	497.0
109.2	128.6	165.6	236.6	344.0	535.7	840.8	1152.1	1400.8	142.5°	521.0	523.0	525.0
95.9	114.1	151.7	219.6	324.6	498.7	839.0	1187.9	1470.0	145°	550.0	550.5	551.0
87.4	103.1	145.6	215.4	309.4	464.7	840.8	1245.5	1572.5	147.5°	574.0	574.5	575.0
80.7	98.9	140.7	206.3	302.1	445.9	848.1	1296.5	1660.5	150°	593.0	593.0	593.0
80.7	97.7	128.6	193.5	298.5	447.7	851.2	1335.9	1726.0	152.5°	610.0	610.0	610.0
84.9	91.6	119.5	186.2	300.9	461.1	847.5	1375.9	1789.7	155°	630.0	629.0	628.0
80.7	85.5	113.4	185.0	300.9	470.8	858.4	1425.7	1873.4	157.5°	646.0	645.5	645.0
76.4	79.5	111.6	183.2	294.8	479.9	903.3	1518.5	1982.6	160°	655.0	655.0	655.0
71.0	74.6	109.2	180.2	288.2	491.4	982.8	1674.4	2163.4	162.5°	661.0	662.0	663.0
64.3	71.6	105.6	175.3	283.9	512.0	1064.1	1832.1	2378.8	165°	673.0	673.0	673.0
61.9	68.6	97.1	163.8	279.7	534.5	1150.9	1983.2	2572.3	167.5°	688.0	686.5	685.0
60.1	66.1	89.8	155.3	276.0	545.4	1176.9	2040.8	2646.9	170°	693.0	692.0	691.0
58.8	64.9	85.5	148.0	271.8	546.0	1195.7	2062.7	2657.8	172.5°	690.0	690.0	690.0
57.0	62.5	77.0	132.9	258.4	545.4	1197.6	2076.6	2626.3	175°	691.0	690.5	690.0
54.0	60.1	77.7	125.0	234.2	519.9	1122.3	2009.3	2500.7	177.5°	697.0	696.0	695.0
51.6	58.2	81.9	126.8	208.7	454.4	981.6	1800.0	2231.9	180°	700.0	700.0	700.0
47.9	57.0	85.5	131.0	201.4	377.3	742.6	1470.0	1869.2				
44.3	56.4	88.6	134.1	193.5	310.6	514.5	1042.3	1399.0				
40.0	51.6	80.7	114.1	160.2	225.7	331.2	681.9	964.6				
34.6	41.3	58.8	80.1	117.7	157.7	196.0	411.9	630.9				
28.5	30.9	41.9	51.6	78.3	93.4	108.6	232.4	441.0				
21.2	21.8	28.5	32.8	44.3	51.6	64.9	142.6	357.3				
12.1	14.0	19.4	21.8	26.7	32.8	42.5	91.0	280.3				
4.9	6.1	11.5	12.7	14.6	18.2	23.7	52.8	87.4				
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: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-

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°	1190.9	1190.9	1190.9	1190.9
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	1274.6	1287.4	1298.3	1306.8
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	1217.0	1246.7	1282.5	1312.8
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	1114.5	1152.1	1210.3	1246.1
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	1017.4	1072.6	1136.3	1187.9
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	951.3	1019.8	1080.5	1138.1
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	933.1	1002.8	1057.4	1110.2
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	969.5	1039.2	1085.9	1118.1
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	1055.0	1129.6	1159.3	1156.9
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	1172.1	1250.3	1250.3	1226.1
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	1326.8	1383.2	1352.3	1306.2
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	1436.6	1489.4	1435.4	1359.5
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	1527.6	1566.4	1497.9	1406.3
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	1607.7	1636.2	1545.8	1455.4
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	1703.5	1713.8	1595.5	1499.1
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	1809.7	1818.2	1667.1	1547.0
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	1934.7	1904.3	1719.9	1591.3
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	2011.7	1962.0	1758.1	1614.4
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	2072.4	2004.4	1775.7	1627.7
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	2147.0	2066.9	1806.7	1652.0
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	2245.3	2153.7	1884.9	1720.5
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	2446.7	2333.3	2025.7	1840.0
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	2678.5	2571.1	2250.7	2037.2
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	2864.1	2791.9	2451.6	2215.6
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	2932.6	2901.7	2593.5	2366.6
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	2958.1	2984.8	2668.7	2458.8
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	2975.7	3091.6	2913.2	2734.3
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	2939.3	3109.2	3012.1	2902.3
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2781.0	2984.2	2965.4	2868.9
								70°	2457.0	2683.3	2748.8	2611.7
								72.5°	1848.5	2129.4	2486.7	2272.0
								75°	1204.2	1463.9	2123.3	1946.2
								77.5°	754.1	913.6	1514.9	1363.2
								80°	501.7	587.3	961.6	875.4
								82.5°	377.3	416.2	661.3	621.8
								85°	199.0	253.6	514.5	652.2
								87.5°	74.6	83.1	387.1	583.0
								90°	7.0	7.0	8.6	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: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	110°	117.0	116.0	117.5	119.0	120.0
1314.0	1325.0	1331.6	1326.8	1334.7	1336.5	1328.0	112.5°	147.0	147.0	148.0	149.0	149.5
1338.3	1368.6	1390.5	1405.7	1411.7	1417.2	1414.8	115°	178.0	177.0	178.0	179.0	180.5
1293.4	1340.1	1380.8	1408.7	1418.4	1425.7	1419.0	117.5°	209.0	208.0	209.0	210.0	212.5
1243.7	1292.2	1330.4	1358.3	1357.7	1365.0	1352.3	120°	243.0	243.0	244.0	245.0	247.5
1197.0	1244.3	1278.3	1277.0	1268.5	1247.3	1243.7	122.5°	277.0	276.0	277.0	278.0	280.5
1160.0	1184.8	1193.3	1191.5	1167.2	1155.1	1153.3	125°	310.0	310.0	310.0	310.0	312.5
1141.8	1140.5	1121.1	1099.9	1076.8	1075.6	1059.9	127.5°	347.0	345.0	345.5	346.0	346.0
1144.8	1105.4	1069.6	1033.2	1008.3	1002.8	1004.6	130°	380.0	379.0	380.0	381.0	381.0
1183.0	1113.2	1045.9	1008.9	979.8	971.3	974.9	132.5°	415.0	414.0	414.0	414.0	415.0
1230.9	1137.5	1053.8	997.4	973.7	963.4	965.2	135°	451.0	450.0	448.5	447.0	447.5
1263.1	1165.4	1079.9	1010.1	978.0	968.2	974.3	137.5°	482.0	481.0	478.5	476.0	475.5
1304.3	1203.6	1115.1	1042.9	994.9	982.2	986.4	140°	511.0	509.0	506.5	504.0	503.0
1345.0	1244.9	1164.8	1082.9	1024.7	1001.0	1007.7	142.5°	536.0	534.0	533.5	533.0	533.0
1388.7	1292.8	1212.1	1137.5	1069.0	1031.9	1040.4	145°	560.0	558.0	559.5	561.0	561.5
1439.6	1348.6	1279.5	1210.9	1140.5	1109.6	1113.2	147.5°	585.0	583.0	584.5	586.0	585.5
1488.8	1403.2	1358.9	1308.0	1266.7	1219.4	1219.4	150°	610.0	606.0	604.5	603.0	601.5
1517.9	1474.2	1462.1	1447.5	1423.2	1389.3	1382.0	152.5°	628.0	623.0	620.5	618.0	616.0
1553.7	1558.5	1586.4	1615.6	1622.8	1589.5	1579.2	155°	641.0	638.0	637.0	636.0	633.5
1621.0	1672.0	1763.6	1843.1	1858.8	1886.1	1854.6	157.5°	655.0	650.0	650.0	650.0	649.0
1715.7	1809.7	1964.4	2094.2	2131.2	2133.7	2136.1	160°	666.0	660.0	660.5	661.0	662.5
1823.7	1958.3	2162.8	2317.5	2383.6	2401.2	2388.5	162.5°	674.0	668.0	669.0	670.0	670.5
2008.7	2130.6	2354.5	2521.3	2606.3	2647.5	2636.6	165°	682.0	678.0	679.0	680.0	678.5
2191.9	2343.6	2540.7	2705.1	2795.5	2841.6	2851.4	167.5°	694.0	688.0	688.0	688.0	686.0
2316.9	2458.8	2640.8	2792.5	2881.7	2936.9	2941.7	170°	701.0	696.0	695.0	694.0	691.5
2393.3	2523.1	2700.9	2834.4	2923.5	2970.3	2987.2	172.5°	701.0	696.0	695.0	694.0	693.0
2625.1	2648.7	2770.1	2858.0	2920.5	2941.7	2954.5	175°	699.0	694.0	695.0	696.0	695.5
2733.7	2634.8	2620.8	2675.4	2680.9	2666.9	2649.3	177.5°	702.0	698.0	699.5	701.0	700.0
2582.6	2351.5	2265.9	2258.6	2236.2	2227.1	2171.3	180°	700.0	700.0	700.0	700.0	700.0
2242.9	1909.8	1758.7	1676.8	1726.6	1724.8	1667.7						
1889.8	1550.7	1354.7	1237.0	1222.4	1220.0	1170.3						
1534.9	1217.0	1045.3	988.3	919.7	899.1	907.6						
1106.6	868.8	832.4	876.0	881.5	865.7	854.8						
697.1	653.4	688.6	768.0	814.8	794.1	802.0						
581.2	514.5	516.9	600.6	632.2	637.0	620.6						
644.9	515.1	422.2	411.9	401.0	252.4	351.3						
581.2	398.6	234.8	193.5	118.9	68.6	71.0						
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: P227271

CATALOG NUMBER: ISW-AF-800-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°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	1326.2	1314.7	1301.9	1284.9	1288.0	1267.3
182.0	180.5	179.0	176.5	174.0	171.0	5°	1395.9	1375.9	1348.6	1314.0	1281.9	1240.6
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	1388.7	1356.5	1311.0	1258.8	1216.4	1156.9
250.0	248.0	246.0	244.5	243.0	240.0	10°	1326.2	1284.3	1247.3	1193.3	1138.1	1085.9
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	1238.8	1215.2	1183.0	1142.4	1089.0	1035.6
315.0	314.0	313.0	311.5	310.0	307.5	15°	1143.6	1145.4	1126.0	1115.1	1088.4	1045.9
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	1065.3	1083.5	1093.8	1110.8	1113.8	1093.2
381.0	379.0	377.0	374.5	372.0	371.0	20°	1013.1	1038.6	1070.8	1117.5	1166.6	1187.9
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	984.0	1015.6	1067.1	1152.1	1241.9	1295.8
448.0	445.5	443.0	440.0	437.0	436.0	25°	978.6	1020.4	1092.6	1196.4	1312.8	1388.7
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	987.7	1042.3	1127.8	1246.1	1360.8	1470.6
502.0	501.0	500.0	498.5	497.0	494.0	30°	1016.8	1080.5	1173.9	1301.3	1420.2	1529.4
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	1044.7	1123.6	1226.7	1351.1	1470.6	1579.2
562.0	559.0	556.0	553.5	551.0	550.5	35°	1089.6	1169.1	1274.6	1389.3	1505.1	1628.3
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	1158.1	1227.9	1312.2	1419.0	1539.7	1667.1
600.0	598.5	597.0	595.0	593.0	593.0	40°	1255.8	1301.9	1356.5	1440.8	1556.7	1693.2
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	1402.0	1411.7	1430.5	1474.2	1571.9	1723.6
631.0	628.5	626.0	627.0	628.0	629.0	45°	1590.7	1561.6	1545.2	1539.1	1605.9	1743.0
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	1809.7	1752.7	1687.2	1655.6	1671.4	1773.9
664.0	661.0	658.0	656.5	655.0	655.0	50°	2094.8	2002.0	1873.4	1782.4	1774.5	1864.9
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	2356.3	2235.0	2073.0	1965.6	1921.9	2034.8
677.0	674.5	672.0	672.5	673.0	673.0	55°	2603.2	2509.8	2326.6	2193.1	2177.9	2259.8
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	2819.8	2739.1	2589.3	2415.2	2421.2	2500.7
689.0	687.5	686.0	688.5	691.0	692.0	59°	2932.0	2864.7	2725.8	2548.6	2562.0	2671.2
692.0	690.5	689.0	689.5	690.0	690.0	60°	2972.1	2915.7	2783.4	2634.2	2651.2	2764.6
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	2969.0	2932.6	2836.8	2766.4	2853.2	2936.3
699.0	696.5	694.0	694.5	695.0	696.0	65°	2685.7	2630.5	2619.6	2742.8	2910.2	2990.3
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	2136.1	2162.2	2265.9	2477.6	2758.5	2875.0
						70°	1586.4	1632.6	1770.9	2036.6	2422.4	2623.9
						72.5°	1166.6	1212.7	1340.1	1631.3	1992.9	2171.3
						75°	915.5	929.4	1021.0	1249.7	1570.7	1716.9
						77.5°	845.7	803.8	766.2	888.8	1059.2	1184.8
						80°	787.5	708.0	619.4	656.4	697.7	831.1
						82.5°	611.5	558.7	489.6	536.9	556.3	560.6
						85°	357.9	318.5	403.4	571.5	565.4	495.0
						87.5°	126.2	163.8	184.4	316.7	382.8	331.2
						90°	8.0	9.8	13.5	13.6	16.1	9.0
						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: P227271

CATALOG NUMBER: ISW-AF-800-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
1190.9	1190.9	1190.9	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
1251.0	1234.0	1232.8	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
1207.9	1169.7	1157.5	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
1105.4	1061.1	1052.0	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
1019.2	970.1	961.6	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
974.9	928.2	917.9	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
991.9	940.3	934.9	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
1055.6	1001.0	1003.4	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
1164.8	1129.6	1121.1	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
1308.0	1269.8	1258.8	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
1429.9	1410.5	1403.2	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
1517.9	1527.0	1519.7	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
1588.3	1618.6	1615.0	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
1660.5	1719.3	1721.7	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
1713.8	1817.6	1838.8	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
1782.4	1921.3	1943.2	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
1834.6	1997.8	2024.5	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1885.5	2060.9	2090.0	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1927.4	2123.3	2153.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1974.7	2184.0	2213.1	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
2059.6	2279.3	2313.8	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
2242.3	2455.8	2504.9	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
2506.2	2699.7	2738.5	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
2744.0	2865.3	2875.6	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
2841.6	2910.8	2907.8	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
2913.2	2921.7	2904.7	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
2952.1	2871.4	2842.3	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
2850.7	2738.5	2700.3	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
2558.3	2498.9	2455.2	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2176.1	2025.7	1997.2								
1649.5	1451.2	1408.7								
1152.7	914.9	857.2								
757.7	587.3	565.4								
491.4	390.1	383.4								
342.8	256.0	236.0								
210.5	85.5	81.9								
65.5	39.4	35.2								
6.8	7.4	7.4								
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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