

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: P271852

Luminaire Tested: **ISW-AF-800-LED-E1-SL2-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-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-SL2-7027-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6004.7 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

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

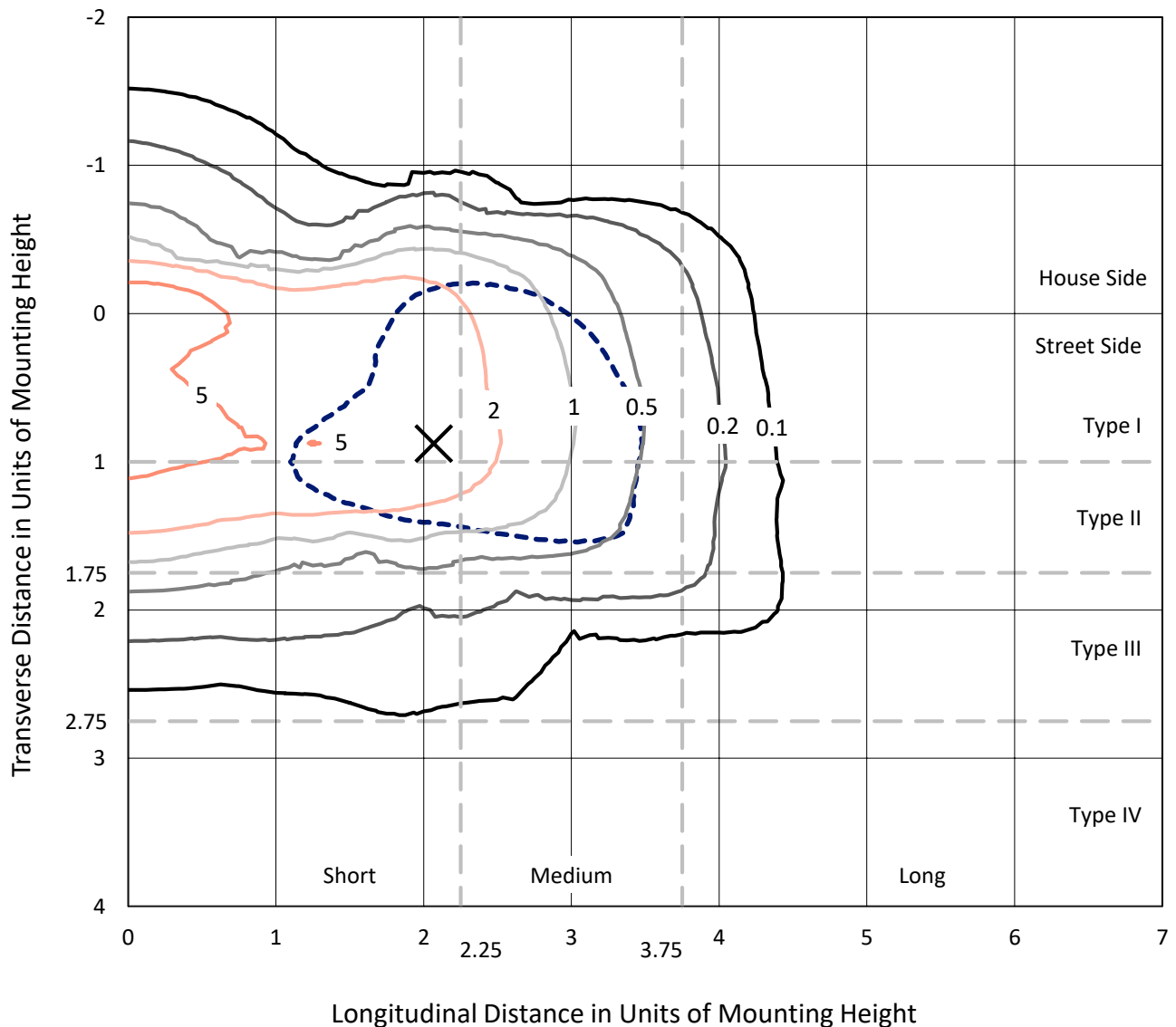


REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

Iso-Footcandle Lines of Horizontal Illumination

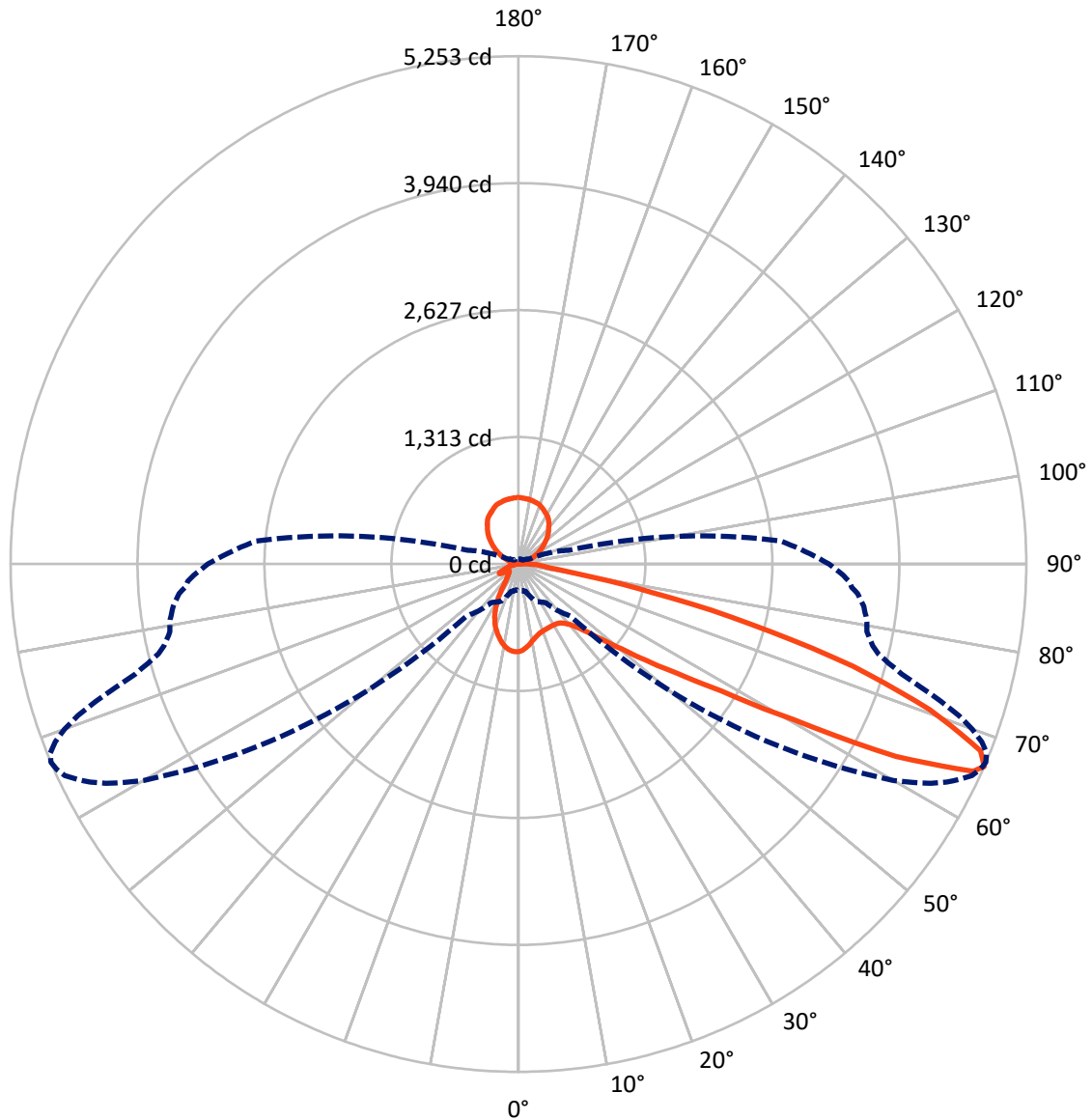
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P271852
CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

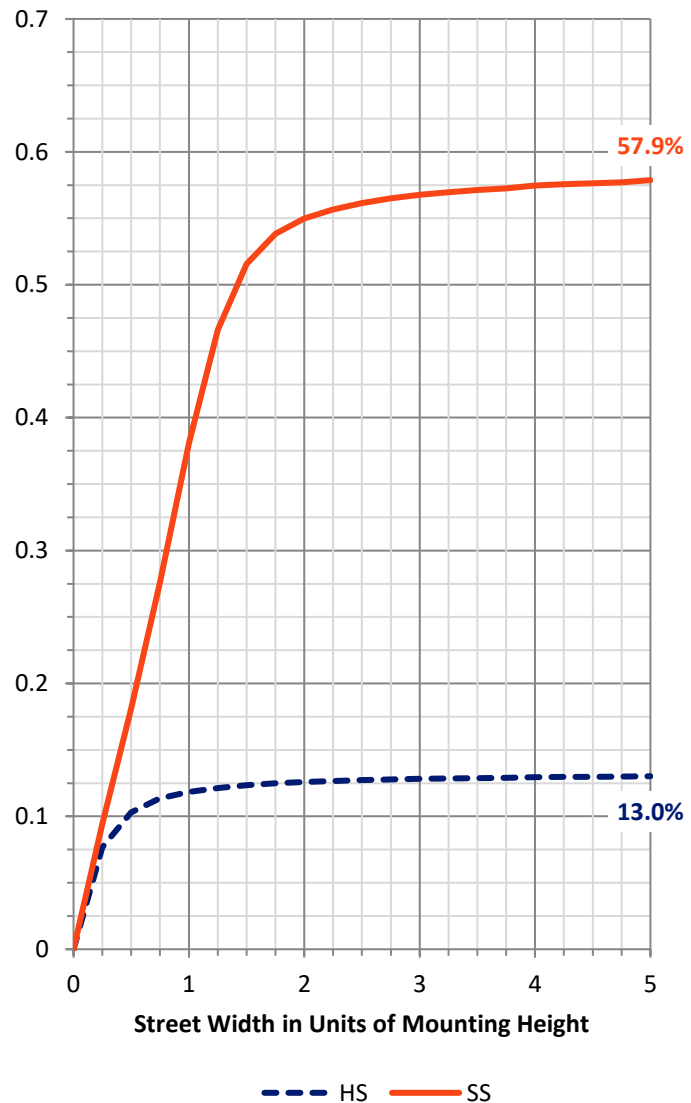
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.6	851.8	1646.4
	% Fixture	13.2	14.2	27.4
Street Side	Lumens	3505.6	852.7	4358.3
	% Fixture	58.4	14.2	72.6
Total	Lumens	4300.2	1704.5	6004.7
	% Fixture	71.6	28.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.3
10°-20°	186.9	3.1
20°-30°	256.2	4.3
30°-40°	366.0	6.1
40°-50°	593.5	9.9
50°-60°	940.3	15.7
60°-70°	1191.6	19.8
70°-80°	592.3	9.9
80°-90°	94.8	1.6
90°-100°	10.6	0.2
100°-110°	56.3	0.9
110°-120°	163.0	2.7
120°-130°	268.1	4.5
130°-140°	330.6	5.5
140°-150°	338.2	5.6
150°-160°	284.9	4.7
160°-170°	187.6	3.1
170°-180°	65.0	1.1
0°-90°	4300.2	71.6
0°-180°	6004.7	100.0



REPORT NUMBER: P271852

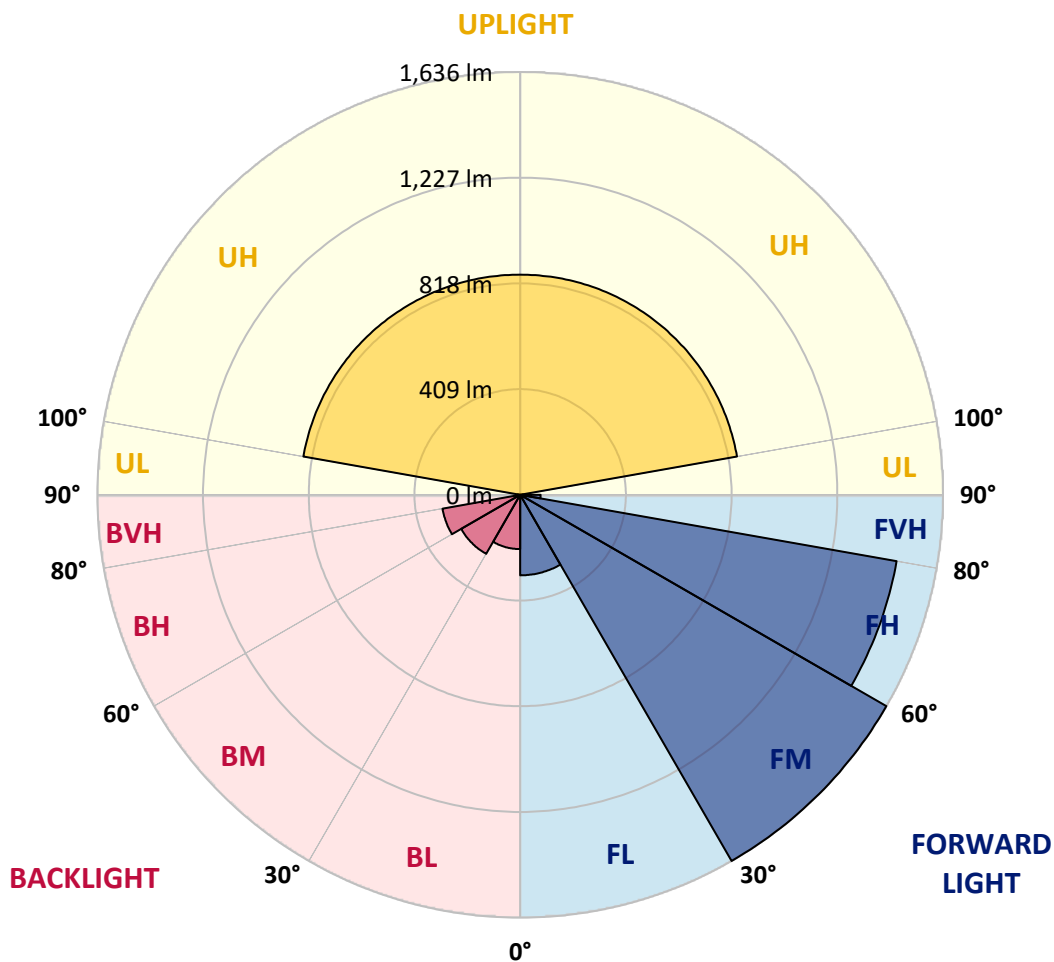
CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.6	5.2			
FM	(30°-60°)	1636.0	27.2			
FH	(60°-80°)	1478.8	24.6			G1/1800
FVH	(80°-90°)	79.2	1.3			G1/100
BL	(0°-30°)	210.0	3.5	B1/500		
BM	(30°-60°)	263.8	4.4	B1/1000		
BH	(60°-80°)	305.2	5.1	B1/500		G1/500
BVH	(80°-90°)	15.6	0.3			G1/100
UL	(90°-100°)	10.6	0.2		U2/50	
UH	(100°-180°)	851.8	14.2		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2
2.5°	841.4	843.1	854.2	859.9	868.4	871.0	880.7	884.7	887.9	887.2	887.2
5°	765.6	771.6	776.7	788.4	800.6	815.4	834.2	848.4	851.0	854.2	856.2
7.5°	708.1	712.1	721.1	729.5	745.1	765.6	792.1	810.3	814.1	815.4	820.0
10°	667.5	670.0	677.8	688.8	706.9	726.9	754.7	773.4	779.3	781.9	785.7
12.5°	635.8	639.8	646.8	658.4	677.8	698.5	727.5	746.3	750.2	753.4	759.2
15°	615.8	618.3	624.8	637.8	655.2	675.9	704.3	726.9	729.5	732.7	737.9
17.5°	611.8	613.8	617.8	627.4	641.0	661.1	690.1	708.9	713.3	717.8	723.0
20°	627.4	628.7	630.0	631.3	639.1	652.0	680.4	700.4	704.3	708.1	714.6
22.5°	661.1	662.9	659.7	655.2	649.4	652.0	675.9	696.5	699.2	703.0	708.1
25°	719.1	717.3	707.5	700.4	679.7	662.9	677.1	694.6	697.8	701.8	707.5
27.5°	787.6	785.1	779.3	759.9	725.7	691.3	684.9	697.8	699.8	703.0	708.1
30°	861.4	861.9	856.8	835.4	791.6	734.1	702.4	705.6	706.9	709.5	712.6
32.5°	927.9	937.5	936.9	935.7	873.0	791.6	735.9	723.0	721.1	723.0	724.3
35°	1004.8	1006.7	1024.8	1033.8	982.7	875.5	785.1	756.6	748.8	749.5	748.3
37.5°	1087.5	1090.0	1121.1	1136.5	1097.2	971.2	850.3	806.4	799.3	792.1	787.1
40°	1207.6	1218.0	1234.1	1251.6	1232.1	1099.7	936.2	876.8	858.7	857.4	847.1
42.5°	1387.3	1384.1	1376.3	1390.5	1367.2	1243.8	1040.2	976.3	962.7	944.7	930.5
45°	1563.7	1570.8	1537.2	1543.6	1544.9	1410.5	1190.8	1101.1	1094.0	1072.6	1057.0
47.5°	1682.5	1674.8	1629.5	1662.5	1743.3	1605.0	1365.3	1270.9	1256.1	1245.1	1235.3
50°	1689.0	1682.5	1653.5	1711.6	1884.1	1950.7	1608.2	1498.5	1477.2	1457.7	1451.9
52.5°	1531.4	1522.3	1532.0	1650.3	1935.2	2240.1	1951.4	1780.8	1763.4	1747.1	1724.6
55°	1250.4	1260.6	1306.6	1476.5	1857.1	2445.6	2626.6	2216.8	2142.0	2141.3	2085.8
57.5°	933.7	923.4	957.6	1117.2	1659.3	2518.7	3246.8	3145.4	2978.2	2865.1	2728.6
60°	630.0	632.6	664.3	746.3	1154.6	2439.2	3662.3	4015.7	3956.9	3933.0	3896.3
62.5°	436.8	440.7	469.7	546.7	675.3	1962.3	3783.8	4503.7	4608.9	4696.2	4674.8
65°	305.6	306.3	335.3	454.3	505.9	1008.0	3515.7	4568.2	4725.3	4875.1	5009.6
66°	269.4	270.1	293.9	422.7	485.3	760.5	3283.0	4478.4	4657.4	4831.8	4970.8
67.5°	230.7	234.5	253.3	359.2	465.2	586.8	2711.8	4210.3	4397.7	4589.5	4773.1
70°	158.3	159.6	176.3	291.4	435.5	515.0	1545.5	3286.9	3546.0	3883.4	4078.5
72.5°	113.1	111.7	113.7	180.3	447.2	511.8	812.2	2163.3	2525.8	2821.7	3032.9
75°	100.8	97.6	89.2	111.7	326.4	558.9	544.0	1273.5	1549.5	1818.9	2035.4
77.5°	89.8	84.6	80.1	86.0	161.5	526.6	488.5	729.5	870.4	1071.3	1238.0
80°	68.5	65.3	67.8	74.3	96.9	484.6	485.3	485.3	523.4	589.3	655.2
82.5°	45.3	41.3	47.3	61.4	73.0	365.1	501.4	428.4	421.2	418.7	423.2
85°	28.5	24.5	33.0	45.8	56.2	190.6	514.3	452.3	419.4	387.7	356.0
87.5°	10.3	11.7	16.8	26.5	36.8	82.7	450.9	398.7	376.1	336.7	299.9
90°	7.5	6.8	10.2	15.6	16.3	22.4	76.0	118.4	74.0	41.2	34.9
92.5°	4.0	4.0	4.9	5.9	5.9	5.9	6.8	6.8	6.8	6.8	6.8
95°	4.9	4.9	5.9	6.8	6.8	6.8	6.8	7.4	7.5	7.5	7.6
97.5°	6.8	6.8	7.8	7.8	8.8	8.8	11.8	10.8	10.6	10.4	10.2
100°	7.8	7.8	8.8	9.8	11.8	20.6	28.5	26.9	26.7	26.4	26.1
102.5°	10.8	10.8	12.8	17.7	26.5	39.3	49.0	47.6	47.3	47.0	46.7
105°	20.6	21.6	26.5	35.3	47.1	61.8	70.7	69.7	69.5	69.3	69.1
107.5°	40.2	41.2	48.1	57.0	71.7	86.3	93.2	92.7	92.6	92.5	92.4



REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
110°	64.8	66.7	72.7	85.4	100.1	111.9	117.8	118.3	118.4	118.5	118.6
112.5°	97.2	97.2	104.0	118.8	131.5	140.3	145.3	146.2	146.4	146.6	146.9
115°	137.4	136.5	144.3	156.0	164.9	170.8	175.7	177.1	177.4	177.8	178.0
117.5°	180.6	180.6	185.5	193.3	198.3	201.2	207.1	209.0	209.5	209.8	210.2
120°	220.8	218.8	221.8	228.7	232.6	238.5	241.5	243.4	243.8	244.2	244.6
122.5°	258.2	255.2	256.2	262.0	266.0	271.8	273.8	275.8	276.2	276.6	276.9
125°	292.5	288.5	290.5	293.5	299.3	304.3	307.2	308.2	308.4	308.6	308.7
127.5°	323.9	322.9	322.9	326.8	332.7	333.7	338.6	339.1	339.2	339.3	339.4
130°	356.3	354.3	355.3	359.2	363.2	365.1	370.0	372.0	372.3	372.8	373.2
132.5°	388.7	386.7	385.7	393.5	396.5	397.5	403.4	405.9	406.3	406.8	407.3
135°	421.0	418.1	418.1	424.0	427.0	428.9	434.8	437.3	437.7	438.2	438.7
137.5°	451.5	448.5	450.5	451.5	455.4	459.3	464.2	465.2	465.4	465.6	465.8
140°	479.0	476.0	478.0	480.0	481.9	487.8	490.7	491.7	491.9	492.1	492.3
142.5°	508.4	505.5	507.5	508.4	511.3	515.3	517.2	520.2	520.7	521.4	521.9
145°	539.8	535.9	534.0	536.8	539.8	540.8	545.7	548.7	549.2	549.9	550.4
147.5°	564.3	561.4	560.5	563.3	563.3	564.3	569.3	571.7	572.2	572.7	573.2
150°	584.0	581.0	582.0	582.0	582.0	582.0	586.0	587.4	587.7	588.0	588.3
152.5°	599.7	596.7	596.7	597.7	598.7	598.7	599.7	601.1	601.4	601.8	602.0
155°	617.3	613.5	613.5	615.4	618.3	616.3	614.4	616.9	617.3	617.9	618.3
157.5°	634.0	631.1	631.1	632.0	634.0	633.0	632.0	634.0	634.5	634.8	635.2
160°	650.7	647.8	646.8	643.8	642.8	642.8	645.8	648.8	649.4	649.9	650.6
162.5°	660.5	656.6	656.6	652.7	648.8	650.7	654.7	656.6	657.0	657.4	657.8
165°	668.4	665.5	663.5	663.5	660.5	660.5	659.5	662.1	662.5	662.9	663.5
167.5°	677.2	674.3	671.3	673.3	675.3	672.3	665.5	668.4	669.0	669.6	670.1
170°	685.0	682.2	679.2	679.2	680.2	678.2	673.3	674.8	675.1	675.3	675.6
172.5°	686.0	684.1	682.2	680.2	677.2	677.2	676.2	677.7	678.0	678.3	678.6
175°	687.0	685.0	684.1	682.2	678.2	677.2	677.2	679.7	680.2	680.6	681.2
177.5°	693.9	692.0	687.0	686.0	684.1	682.2	681.2	683.6	684.1	684.6	685.0
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2
2.5°	887.9	891.0	892.4	891.0	891.7	895.6	894.3	896.1	896.1	897.5	897.5
5°	858.7	861.4	866.4	865.9	871.0	873.0	874.9	877.5	880.7	882.7	886.4
7.5°	824.5	829.7	834.2	836.7	839.9	846.5	848.4	854.2	859.4	864.6	868.4
10°	791.6	798.6	803.8	805.7	812.9	816.1	823.2	827.7	834.2	840.6	846.5
12.5°	763.8	770.2	772.8	779.3	785.7	792.1	795.4	803.8	810.3	818.6	826.4
15°	743.1	749.5	754.7	759.2	765.6	772.1	777.3	785.7	793.5	801.8	808.9
17.5°	730.1	734.1	740.6	744.3	752.2	759.9	765.6	775.3	783.8	790.9	800.6
20°	720.4	725.0	730.8	736.6	743.7	753.4	758.6	768.9	777.9	786.4	795.4
22.5°	715.3	719.8	725.7	731.4	739.1	746.9	755.4	764.4	774.1	783.1	792.1
25°	713.3	717.3	722.3	728.2	736.6	745.1	752.2	762.4	770.8	780.5	791.6
27.5°	714.1	716.6	722.3	727.5	735.9	743.7	750.8	761.1	770.8	779.9	790.9
30°	716.6	718.6	724.3	728.9	735.9	743.7	750.2	761.1	769.6	779.3	790.9
32.5°	725.7	728.2	730.8	734.1	740.6	746.3	754.0	763.8	771.6	781.2	790.9
35°	746.9	745.1	746.9	748.3	752.8	758.6	764.4	772.8	779.9	788.4	798.6
37.5°	780.5	776.7	777.9	777.3	777.3	781.2	787.1	792.8	798.6	807.0	817.4
40°	842.6	832.9	830.3	823.2	821.2	824.5	828.3	829.0	836.1	847.1	851.6
42.5°	922.6	909.7	911.7	900.1	896.9	892.9	898.1	894.9	899.5	906.5	916.2
45°	1049.3	1037.0	1024.2	1005.5	1009.2	995.1	991.2	992.4	991.8	994.4	1006.0
47.5°	1200.6	1184.3	1176.0	1168.9	1155.3	1146.9	1136.0	1119.7	1123.6	1128.8	1139.1
50°	1421.5	1416.4	1400.2	1376.9	1373.7	1361.4	1358.1	1344.0	1338.8	1338.1	1337.6
52.5°	1716.8	1683.2	1676.8	1654.8	1638.0	1626.3	1622.5	1602.5	1582.5	1594.0	1592.8
55°	2076.7	2048.9	2013.4	1994.0	1980.4	1952.6	1945.5	1920.4	1908.7	1902.3	1886.1
57.5°	2681.5	2584.0	2510.9	2474.7	2423.6	2372.0	2353.9	2302.2	2262.1	2233.7	2235.6
60°	3736.1	3562.2	3357.3	3265.6	3053.0	3022.0	2875.9	2840.4	2752.6	2694.5	2660.8
62.5°	4660.0	4612.8	4514.6	4380.9	4167.7	3922.1	3811.6	3592.0	3420.0	3345.1	3241.1
65°	5101.3	5167.9	5195.0	5169.7	5084.5	4934.6	4802.8	4588.3	4300.1	4137.2	3935.0
66°	5078.7	5177.5	5227.2	5253.2	5222.2	5133.6	4995.4	4819.0	4596.0	4347.9	4121.2
67.5°	4913.3	5009.6	5078.7	5157.5	5157.5	5129.7	5073.4	4955.9	4798.3	4581.7	4378.2
70°	4237.5	4367.9	4490.1	4513.9	4581.2	4560.4	4605.0	4530.2	4492.6	4402.1	4293.0
72.5°	3301.1	3410.3	3515.0	3619.7	3602.2	3579.7	3575.2	3590.6	3514.3	3541.5	3513.1
75°	2195.5	2383.7	2490.9	2480.5	2487.7	2493.4	2445.6	2339.1	2421.7	2317.1	2351.9
77.5°	1334.3	1421.5	1450.7	1418.2	1376.3	1322.0	1234.8	1183.8	1110.8	1116.5	1068.1
80°	699.8	710.8	687.6	622.3	586.8	554.4	454.9	410.3	368.9	353.4	318.6
82.5°	401.3	374.8	346.4	324.4	282.3	254.0	215.1	190.6	164.1	140.9	132.5
85°	325.0	289.4	262.9	238.4	210.0	184.8	152.5	127.3	107.9	93.7	90.5
87.5°	268.1	243.6	216.4	193.1	165.4	139.6	107.9	84.0	66.6	53.6	49.8
90°	32.6	41.1	32.1	21.8	28.3	19.1	14.6	15.3	14.0	14.0	14.6
92.5°	6.8	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	7.7	7.8	7.7	7.6	7.5	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.8	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	8.9
100°	25.8	25.5	25.2	25.0	24.6	24.3	24.1	23.7	23.4	23.2	22.9
102.5°	46.4	46.2	45.6	45.2	44.6	44.2	43.7	43.2	42.7	42.2	41.7
105°	68.9	68.7	68.2	67.7	67.2	66.7	66.3	65.8	65.3	64.8	64.3
107.5°	92.3	92.3	91.9	91.4	91.1	90.7	90.3	89.9	89.5	89.1	88.8



REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
110°	118.7	118.8	118.6	118.4	118.1	117.9	117.8	117.6	117.4	117.2	117.0
112.5°	147.1	147.2	147.1	147.1	147.0	146.9	146.7	146.6	146.5	146.4	146.3
115°	178.3	178.7	178.3	178.0	177.8	177.4	177.1	176.9	176.6	176.2	176.0
117.5°	210.7	211.0	210.6	210.0	209.6	209.0	208.6	208.0	207.6	207.1	206.6
120°	245.0	245.3	244.9	244.4	243.9	243.4	242.9	242.5	241.9	241.5	240.9
122.5°	277.4	277.8	277.3	276.8	276.3	275.8	275.3	274.8	274.3	273.8	273.4
125°	308.9	309.2	308.7	308.2	307.7	307.2	306.7	306.2	305.7	305.2	304.7
127.5°	339.5	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
130°	373.5	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
132.5°	407.8	408.3	408.1	407.9	407.7	407.5	407.3	407.1	406.9	406.8	406.6
135°	439.2	439.7	439.6	439.5	439.5	439.3	439.2	439.1	439.0	438.9	438.8
137.5°	466.0	466.2	466.3	466.4	466.5	466.6	466.7	466.8	466.8	467.0	467.1
140°	492.5	492.7	492.9	493.1	493.3	493.5	493.7	493.9	494.1	494.2	494.4
142.5°	522.5	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2	523.2
145°	551.0	551.6	551.5	551.4	551.3	551.2	551.1	551.0	550.9	550.8	550.8
147.5°	573.7	574.2	574.3	574.4	574.5	574.6	574.6	574.7	574.8	574.9	575.1
150°	588.6	588.9	589.2	589.5	589.7	590.1	590.4	590.6	590.9	591.3	591.5
152.5°	602.3	602.7	603.0	603.4	603.8	604.2	604.6	605.0	605.4	605.7	606.2
155°	618.8	619.3	619.8	620.3	620.8	621.3	621.8	622.3	622.7	623.2	623.7
157.5°	635.6	636.0	636.2	636.4	636.6	636.8	637.0	637.2	637.3	637.5	637.8
160°	651.1	651.7	651.5	651.1	650.8	650.6	650.2	649.9	649.7	649.4	649.0
162.5°	658.2	658.5	658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.6
165°	663.9	664.5	664.7	665.0	665.4	665.6	665.9	666.3	666.5	666.8	667.1
167.5°	670.8	671.3	671.8	672.1	672.5	672.9	673.3	673.7	674.1	674.4	674.9
170°	676.0	676.2	676.7	677.2	677.7	678.2	678.7	679.2	679.7	680.2	680.6
172.5°	678.8	679.2	679.4	679.6	679.7	679.9	680.2	680.4	680.6	680.7	680.9
175°	681.6	682.2	682.3	682.4	682.4	682.5	682.6	682.7	682.8	682.9	683.0
177.5°	685.6	686.0	686.2	686.5	686.7	686.8	687.0	687.2	687.5	687.7	687.8
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271852

CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2
2.5°	899.5	899.5	900.7	902.0	902.7	902.7	902.7	904.0	904.6	902.7	904.6
5°	888.4	891.7	894.3	896.1	896.9	898.8	900.7	902.0	904.0	904.0	905.2
7.5°	873.6	879.4	882.7	885.9	889.1	892.4	896.1	898.8	900.1	902.7	904.6
10°	854.8	861.9	868.4	873.6	878.1	884.7	889.7	893.6	899.5	900.1	904.6
12.5°	834.9	845.1	850.3	859.9	866.4	876.2	881.3	887.2	893.6	896.9	902.0
15°	820.6	829.7	839.4	848.4	858.7	870.4	876.8	884.7	893.6	900.7	907.2
17.5°	809.6	821.9	832.9	844.5	857.4	869.6	879.4	887.9	899.5	903.3	909.7
20°	806.4	820.0	830.9	843.1	856.8	873.0	884.7	893.6	905.2	911.7	917.5
22.5°	805.2	818.1	830.9	845.8	860.7	877.5	889.7	901.4	912.9	918.9	923.4
25°	803.8	817.4	831.7	848.4	864.6	882.0	896.1	907.2	918.2	924.0	927.9
27.5°	803.8	818.1	833.5	850.3	867.8	887.2	900.7	911.2	920.8	926.0	927.2
30°	803.2	818.1	832.9	851.6	870.4	890.4	905.2	914.9	923.4	926.6	925.3
32.5°	804.4	820.0	836.1	854.8	874.2	893.6	909.2	920.1	924.6	924.0	923.4
35°	810.9	825.1	843.9	862.6	882.7	900.7	915.6	923.4	927.2	926.0	922.6
37.5°	828.3	842.6	861.4	882.0	897.5	918.2	931.7	937.5	938.2	934.3	926.6
40°	864.6	878.7	895.6	918.2	936.9	951.1	964.0	970.5	966.7	959.5	951.1
42.5°	922.0	940.2	960.2	978.3	1000.3	1019.7	1022.8	1026.8	1020.3	1006.7	996.4
45°	1014.5	1025.4	1051.3	1064.9	1093.2	1103.0	1110.0	1112.0	1097.8	1086.8	1068.7
47.5°	1147.6	1168.9	1187.0	1199.9	1220.5	1233.6	1247.7	1241.3	1230.3	1211.5	1187.6
50°	1356.9	1370.5	1393.7	1417.0	1438.9	1448.0	1448.0	1441.5	1434.4	1398.2	1369.2
52.5°	1614.1	1615.3	1649.0	1676.8	1695.6	1681.9	1698.1	1681.9	1677.3	1652.3	1628.3
55°	1912.0	1899.6	1940.4	1965.0	1981.8	1997.9	1994.7	1992.7	1975.9	1947.4	1918.4
57.5°	2195.0	2230.5	2249.9	2286.1	2294.5	2305.4	2300.9	2294.5	2284.7	2268.6	2255.6
60°	2603.3	2627.3	2644.7	2651.8	2675.7	2678.9	2695.1	2668.5	2675.1	2656.3	2615.5
62.5°	3159.0	3133.2	3146.8	3146.8	3139.6	3114.4	3128.0	3138.3	3120.9	3105.4	3099.0
65°	3781.2	3697.9	3617.7	3604.2	3567.3	3558.9	3548.7	3522.7	3511.7	3484.6	3462.7
66°	3967.4	3838.1	3762.6	3716.0	3671.5	3661.7	3647.5	3620.3	3598.4	3560.3	3523.4
67.5°	4176.0	4009.3	3895.6	3829.7	3774.8	3738.6	3710.2	3671.5	3636.5	3579.7	3520.9
70°	4162.5	4024.9	3887.9	3787.7	3705.0	3630.7	3586.8	3503.4	3432.3	3350.9	3283.8
72.5°	3497.6	3472.9	3393.5	3337.3	3235.9	3196.5	3080.2	3027.2	2928.9	2823.6	2791.3
75°	2431.4	2335.1	2294.5	2271.8	2227.3	2104.5	2024.4	2041.8	1926.9	1824.1	1765.3
77.5°	1063.0	1082.3	969.9	919.4	880.7	814.1	752.2	709.5	684.9	668.8	595.8
80°	293.9	256.6	253.3	235.2	231.3	206.1	209.3	191.2	179.0	176.3	170.6
82.5°	128.5	126.0	122.1	120.2	118.3	115.6	112.5	111.7	107.9	104.7	105.3
85°	85.2	84.6	82.7	80.8	77.5	73.0	69.8	67.2	67.8	64.6	64.0
87.5°	49.8	48.5	47.8	45.3	44.6	40.7	41.3	38.1	37.5	36.8	34.9
90°	15.9	16.3	18.1	17.2	14.6	20.1	18.0	16.5	17.0	14.8	14.6
92.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8
100°	22.5	22.2	21.8	21.4	21.0	20.6	20.2	19.9	19.4	19.0	18.7
102.5°	41.2	41.0	40.6	40.3	40.1	39.7	39.4	39.2	38.9	38.5	38.3
105°	63.8	63.4	63.0	62.6	62.3	61.8	61.4	61.1	60.6	60.3	59.8
107.5°	88.3	88.0	87.8	87.5	87.1	86.9	86.6	86.2	86.0	85.7	85.4



REPORT NUMBER: P271852
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
110°	116.8	116.5	116.2	115.9	115.6	115.3	115.1	114.7	114.4	114.2	113.8	0°
112.5°	146.2	146.1	145.9	145.6	145.4	145.3	145.1	144.9	144.6	144.4	144.3	2.5°
115°	175.7	175.5	175.3	175.1	174.9	174.7	174.5	174.3	174.1	173.9	173.7	5°
117.5°	206.1	205.9	205.7	205.5	205.4	205.2	204.9	204.7	204.5	204.4	204.2	7.5°
120°	240.5	240.3	240.0	239.8	239.7	239.5	239.3	239.1	238.9	238.7	238.5	10°
122.5°	272.8	272.6	272.5	272.3	272.1	271.8	271.6	271.5	271.3	271.1	270.9	12.5°
125°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	304.3	15°
127.5°	339.6	339.5	339.4	339.3	339.2	339.1	339.0	338.9	338.8	338.8	338.6	17.5°
130°	374.0	373.8	373.5	373.3	373.2	373.0	372.8	372.5	372.3	372.2	372.0	20°
132.5°	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	406.3	22.5°
135°	438.7	439.0	439.3	439.6	439.9	440.2	440.5	440.8	441.1	441.3	441.7	25°
137.5°	467.2	467.7	468.2	468.6	469.2	469.6	470.2	470.6	471.1	471.6	472.1	27.5°
140°	494.7	495.1	495.7	496.1	496.7	497.1	497.6	498.1	498.6	499.1	499.5	30°
142.5°	523.2	523.3	523.4	523.4	523.5	523.6	523.7	523.8	523.9	524.0	524.1	32.5°
145°	550.6	550.3	550.0	549.8	549.4	549.1	548.9	548.5	548.2	548.0	547.7	35°
147.5°	575.2	574.8	574.6	574.3	573.9	573.7	573.4	573.1	572.8	572.5	572.2	37.5°
150°	591.8	592.2	592.4	592.7	593.0	593.3	593.6	593.9	594.2	594.5	594.8	40°
152.5°	606.5	607.1	607.5	608.1	608.5	609.1	609.5	609.9	610.5	610.9	611.5	42.5°
155°	624.2	624.4	624.6	624.8	625.0	625.2	625.4	625.6	625.8	626.0	626.2	45°
157.5°	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	638.0	47.5°
160°	648.8	648.7	648.6	648.5	648.4	648.3	648.1	648.0	647.9	647.9	647.8	50°
162.5°	657.6	657.4	657.2	657.0	656.8	656.6	656.4	656.2	656.0	655.9	655.7	52.5°
165°	667.4	667.2	667.0	666.8	666.6	666.5	666.3	666.0	665.8	665.6	665.5	55°
167.5°	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	675.3	57.5°
170°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	60°
172.5°	681.2	681.4	681.5	681.7	681.9	682.2	682.4	682.5	682.7	682.9	683.1	62.5°
175°	683.1	682.9	682.7	682.5	682.4	682.2	681.9	681.7	681.5	681.4	681.2	65°
177.5°	688.0	687.7	687.5	687.1	686.8	686.6	686.2	685.9	685.7	685.4	685.0	66°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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: P271852
 NUMBER: ISW-AF-800-LED-E1-SL2-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	86°	
905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	905.2	110°	114.1
906.5	907.8	908.5	907.8	909.2	908.5	909.2	908.5	905.2	904.6	904.0	112.5°	144.3
907.8	910.4	911.2	911.7	910.4	911.7	909.2	898.8	887.2	874.2	863.9	115°	173.9
909.2	912.4	914.3	914.3	914.9	913.7	904.0	881.3	854.2	827.1	806.4	117.5°	204.4
908.5	912.9	914.9	915.6	915.6	912.9	889.7	853.6	812.2	770.8	728.9	120°	238.5
906.5	910.4	913.7	913.7	914.3	905.2	869.1	817.4	758.6	696.5	640.3	122.5°	271.1
910.4	914.3	914.3	914.3	913.7	898.1	847.1	772.1	693.3	609.3	526.0	125°	304.3
916.2	918.2	916.9	916.9	914.3	891.0	822.6	727.5	624.2	513.0	396.7	127.5°	339.0
921.4	922.6	922.0	918.9	915.6	883.2	797.3	680.4	541.5	396.7	281.1	130°	372.2
926.6	927.9	924.6	919.4	914.9	873.0	767.0	620.3	447.7	271.4	186.1	132.5°	406.6
927.2	928.5	922.6	915.6	909.2	857.4	730.1	556.3	345.1	175.8	145.3	135°	441.9
926.6	925.3	915.6	906.5	899.5	838.7	689.4	476.9	230.1	132.5	126.6	137.5°	472.3
922.0	916.2	908.5	898.1	887.9	818.1	648.8	388.3	145.3	115.1	115.1	140°	500.0
915.6	909.7	900.1	886.4	874.9	798.0	602.2	297.9	116.3	106.0	107.3	142.5°	524.5
912.9	906.5	892.4	878.1	863.2	779.9	553.1	200.3	104.7	100.1	100.8	145°	548.1
918.2	907.2	892.9	876.8	859.4	764.4	502.1	139.6	98.8	93.7	95.0	147.5°	572.6
935.7	925.3	908.5	887.9	869.1	755.4	447.7	115.6	93.1	88.6	88.6	150°	595.6
977.6	964.0	941.4	916.9	894.3	761.1	399.4	105.3	88.6	84.0	84.0	152.5°	612.5
1045.4	1029.3	1002.8	975.0	945.3	789.6	344.4	101.5	85.2	78.8	77.5	155°	626.7
1161.8	1140.5	1105.5	1072.6	1037.0	838.7	288.9	98.8	81.5	75.5	73.0	157.5°	639.0
1344.7	1313.0	1271.6	1228.3	1185.0	928.5	244.9	96.3	78.8	73.0	70.4	160°	648.9
1579.8	1558.5	1506.7	1450.0	1398.2	1107.5	219.6	94.3	76.9	69.8	67.8	162.5°	656.8
1879.6	1844.7	1804.1	1753.0	1691.6	1339.5	217.1	93.7	75.0	67.2	65.9	165°	666.3
2196.3	2182.7	2113.5	2081.9	2015.3	1648.3	264.3	95.0	73.8	65.3	63.3	167.5°	676.4
2557.5	2562.7	2498.0	2463.2	2408.2	2039.9	420.7	98.8	73.8	63.3	61.4	170°	684.1
3029.7	3038.2	2961.9	2920.6	2874.0	2478.6	661.1	105.3	75.5	61.4	59.5	172.5°	684.1
3416.8	3371.6	3322.5	3250.1	3191.3	2723.5	636.4	117.0	78.2	59.5	57.5	175°	682.2
3456.9	3424.6	3362.5	3284.3	3212.6	2724.8	555.7	120.8	78.8	58.7	56.9	177.5°	685.9
3451.6	3394.2	3323.8	3257.8	3187.5	2655.0	429.7	126.0	80.8	57.5	55.5	180°	687.0
3212.6	3131.9	3063.4	2972.2	2898.7	2375.8	264.3	125.3	78.2	53.6	52.3		
2649.2	2607.8	2526.4	2453.5	2376.6	1922.9	180.9	111.7	69.1	48.5	49.0		
1713.6	1666.4	1583.7	1542.3	1499.0	1230.3	140.9	91.1	58.7	43.3	45.3		
571.8	553.1	522.7	539.5	514.3	479.4	103.3	69.1	47.3	37.5	40.1		
171.3	167.4	173.1	162.9	172.6	146.1	67.8	48.5	36.2	32.2	35.6		
101.5	100.1	100.1	100.1	97.6	91.1	44.6	33.6	27.8	27.2	29.7		
62.1	60.7	61.4	60.7	62.1	55.5	30.4	23.3	20.8	20.0	24.0		
35.6	35.6	36.2	34.9	35.6	34.2	21.3	14.8	13.6	12.9	17.4		
15.3	15.3	13.4	12.7	13.4	15.9	14.6	13.4	10.8	10.2	13.7		
5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.8	6.8	5.9	5.9		
6.8	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	6.8	6.8		
7.8	7.8	7.8	7.8	7.8	7.8	8.8	9.8	11.8	8.8	8.8		
18.7	18.7	18.7	18.7	18.7	18.7	22.5	25.5	28.5	20.6	11.8		
38.1	37.9	37.7	37.5	37.3	38.3	41.2	46.2	49.0	39.3	26.5		
59.8	59.8	59.8	59.8	59.8	59.8	63.8	68.7	70.7	61.8	47.1		
85.2	85.0	84.8	84.6	84.4	85.4	88.3	92.3	93.2	86.3	71.7		

'271852
 ISW-AF-800-LED-E1-SL2-7027-ULG

REPORT NUMBER: P271852
 CATALOG NUMBER: ISW-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
114.3	114.4	114.6	114.8	113.8	116.8	118.8	117.8	111.9	100.1	0°	905.2	905.2
144.3	144.3	144.3	144.3	144.3	146.2	147.2	145.3	140.3	131.5	2.5°	898.8	894.3
174.1	174.3	174.5	174.7	173.7	175.7	178.7	175.7	170.8	164.9	5°	847.7	835.4
204.5	204.7	204.9	205.2	204.2	206.1	211.0	207.1	201.2	198.3	7.5°	774.1	759.9
238.5	238.5	238.5	238.5	238.5	240.5	245.3	241.5	238.5	232.6	10°	690.1	668.8
271.3	271.5	271.6	271.8	270.9	272.8	277.8	273.8	271.8	266.0	12.5°	582.8	540.8
304.3	304.3	304.3	304.3	304.3	304.3	309.2	307.2	304.3	299.3	15°	458.8	402.5
339.4	339.8	340.2	340.5	338.6	339.6	339.6	338.6	333.7	332.7	17.5°	315.9	270.7
372.3	372.5	372.8	373.0	372.0	374.0	374.0	370.0	365.1	363.2	20°	221.6	204.8
406.8	406.9	407.1	407.3	406.3	406.3	408.3	403.4	397.5	396.5	22.5°	171.3	171.8
442.1	442.2	442.4	442.7	441.7	438.7	439.7	434.8	428.9	427.0	25°	142.1	148.6
472.5	472.7	472.9	473.0	472.1	467.2	466.2	464.2	459.3	455.4	27.5°	125.3	131.8
500.4	500.7	501.2	501.5	499.5	494.7	492.7	490.7	487.8	481.9	30°	115.1	120.8
524.9	525.3	525.7	526.0	524.1	523.2	523.2	517.2	515.3	511.3	32.5°	107.9	110.5
548.4	548.9	549.2	549.7	547.7	550.6	551.6	545.7	540.8	539.8	35°	99.5	100.8
573.0	573.4	573.7	574.2	572.2	575.2	574.2	569.3	564.3	563.3	37.5°	92.3	92.3
596.4	597.1	597.9	598.7	594.8	591.8	588.9	586.0	582.0	582.0	40°	86.0	85.2
613.5	614.4	615.4	616.3	611.5	606.5	602.7	599.7	598.7	598.7	42.5°	80.1	79.5
627.4	627.9	628.5	629.2	626.2	624.2	619.3	614.4	616.3	618.3	45°	74.3	75.0
640.0	640.9	641.9	642.8	638.0	638.0	636.0	632.0	633.0	634.0	47.5°	71.1	71.8
650.1	651.3	652.5	653.7	647.8	648.8	651.7	645.8	642.8	642.8	50°	67.8	68.5
658.0	659.2	660.3	661.5	655.7	657.6	658.5	654.7	650.7	648.8	52.5°	65.3	65.3
667.0	667.8	668.6	669.3	665.5	667.4	664.5	659.5	660.5	660.5	55°	62.7	62.1
677.6	678.8	679.9	681.2	675.3	675.3	671.3	665.5	672.3	675.3	57.5°	60.7	59.5
685.0	686.0	687.0	688.0	683.1	681.2	676.2	673.3	678.2	680.2	60°	58.7	57.5
685.0	686.0	687.0	688.0	683.1	681.2	679.2	676.2	677.2	677.2	62.5°	57.5	55.5
683.1	684.1	685.0	686.0	681.2	683.1	682.2	677.2	677.2	678.2	65°	56.2	55.0
686.7	687.5	688.2	689.0	685.0	688.0	686.0	681.2	682.2	684.1	66°	55.5	54.3
687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	67.5°	55.0	53.6
										70°	52.3	51.0
										72.5°	48.5	47.8
										75°	44.6	43.3
										77.5°	39.4	38.8
										80°	33.6	33.0
										82.5°	28.5	27.2
										85°	22.5	21.3
										87.5°	15.5	14.2
										90°	11.8	11.4
										92.5°	5.9	4.9
										95°	6.8	5.9
										97.5°	7.8	7.8
										100°	9.8	8.8
										102.5°	17.7	12.8
										105°	35.3	26.5
										107.5°	57.0	48.1



REPORT NUMBER: P271852

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

00-LED-E1-SL2-7027-ULG

tinued):

175°	180°
905.2	905.2
890.4	896.1
831.7	829.7
748.3	748.8
647.5	648.8
517.0	509.2
370.2	373.4
257.8	257.2
206.8	208.0
177.1	177.1
157.7	157.7
138.9	139.6
126.0	127.3
114.4	115.1
102.8	103.3
93.1	93.1
86.6	87.2
82.0	82.0
77.5	77.5
73.8	75.0
69.8	70.4
65.9	66.6
62.1	62.1
58.7	58.7
56.2	55.5
54.3	53.0
52.3	51.7
51.7	51.0
51.0	50.5
49.8	49.0
47.8	47.3
43.9	42.7
40.1	38.8
36.8	34.9
31.0	29.7
22.5	21.3
13.6	13.6
8.2	8.2
4.0	4.0
4.9	4.9
6.8	6.8
7.8	7.8
10.8	10.8
21.6	20.6
41.2	40.2

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	85.4	72.7	66.7
112.5°	118.8	104.0	97.2
115°	156.0	144.3	136.5
117.5°	193.3	185.5	180.6
120°	228.7	221.8	218.8
122.5°	262.0	256.2	255.2
125°	293.5	290.5	288.5
127.5°	326.8	322.9	322.9
130°	359.2	355.3	354.3
132.5°	393.5	385.7	386.7
135°	424.0	418.1	418.1
137.5°	451.5	450.5	448.5
140°	480.0	478.0	476.0
142.5°	508.4	507.5	505.5
145°	536.8	534.0	535.9
147.5°	563.3	560.5	561.4
150°	582.0	582.0	581.0
152.5°	597.7	596.7	596.7
155°	615.4	613.5	613.5
157.5°	632.0	631.1	631.1
160°	643.8	646.8	647.8
162.5°	652.7	656.6	656.6
165°	663.5	663.5	665.5
167.5°	673.3	671.3	674.3
170°	679.2	679.2	682.2
172.5°	680.2	682.2	684.1
175°	682.2	684.1	685.0
177.5°	686.0	687.0	692.0
180°	687.0	687.0	687.0

-SL2-7027-ULG

180°
64.8
97.2
137.4
180.6
220.8
258.2
292.5
323.9
356.3
388.7
421.0
451.5
479.0
508.4
539.8
564.3
584.0
599.7
617.3
634.0
650.7
660.5
668.4
677.2
685.0
686.0
687.0
693.9
687.0

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