

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: P227290

Luminaire Tested: **ISW-AF-1200-LED-E1-SLR-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227290
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-1200-LED-E1-SLR-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7854.6 lumens
Efficiency: N/A
Efficacy: 95.0 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

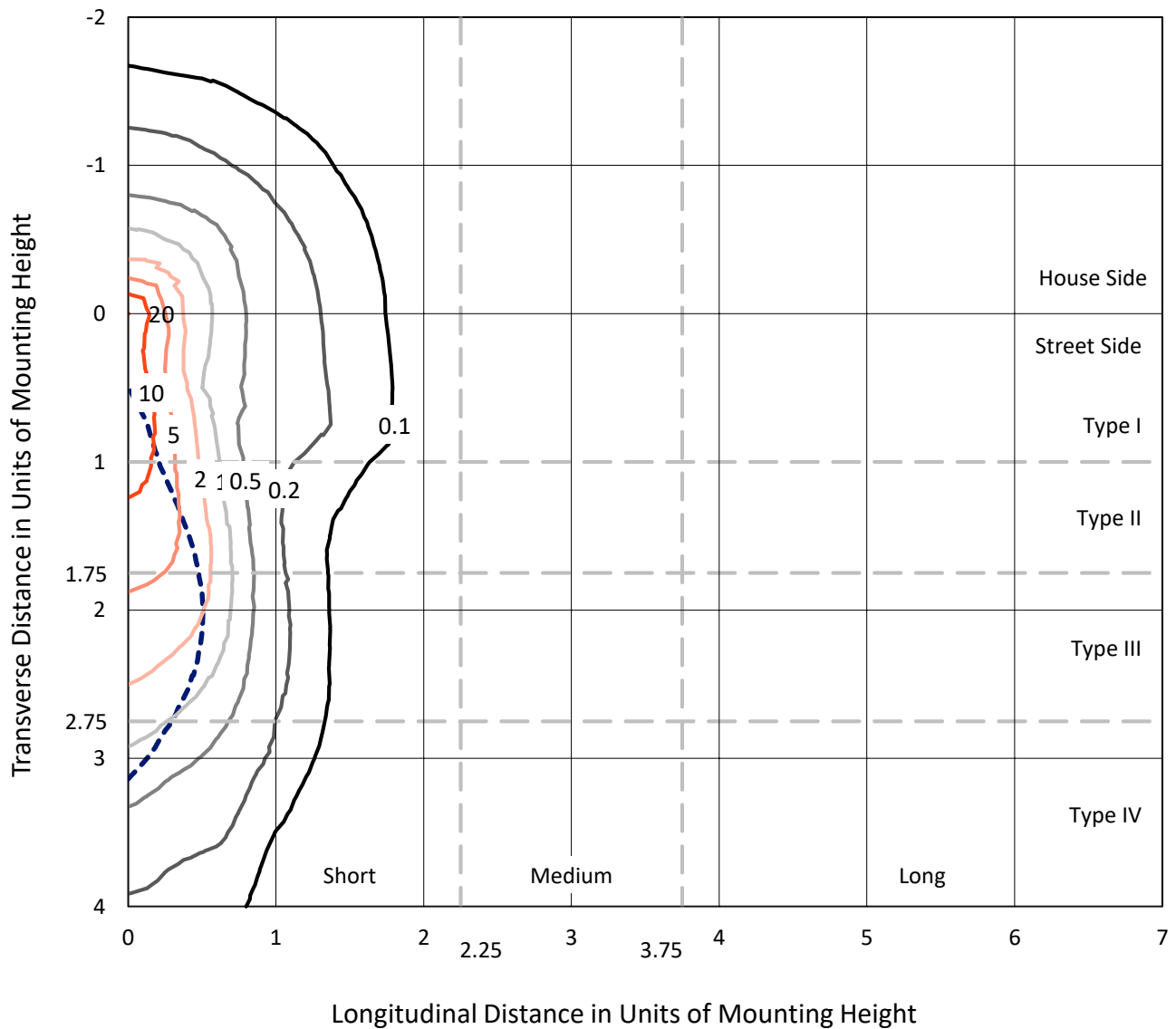
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227290
 CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

Iso-Footcandle Lines of Horizontal Illumination

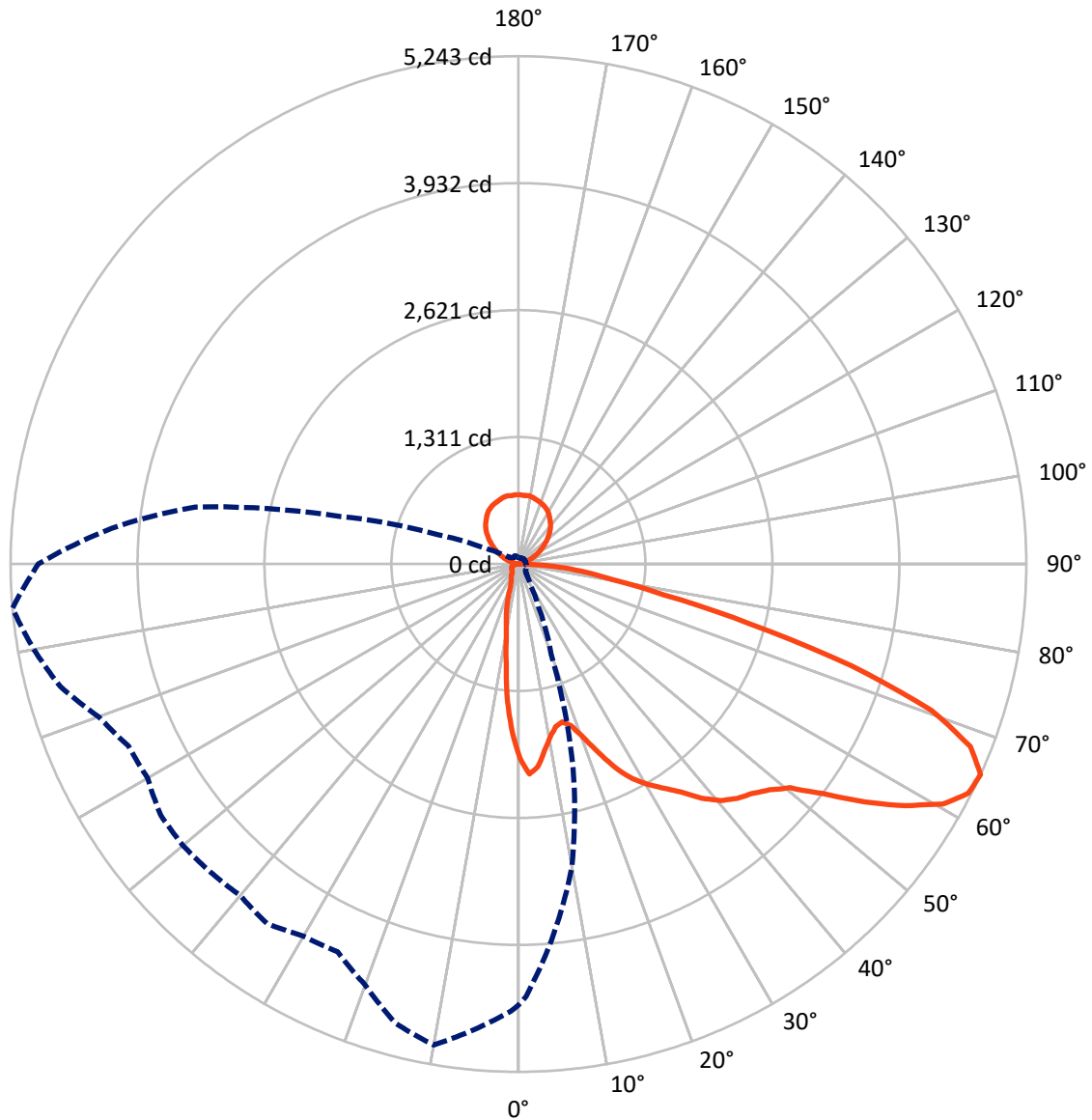
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P227290
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

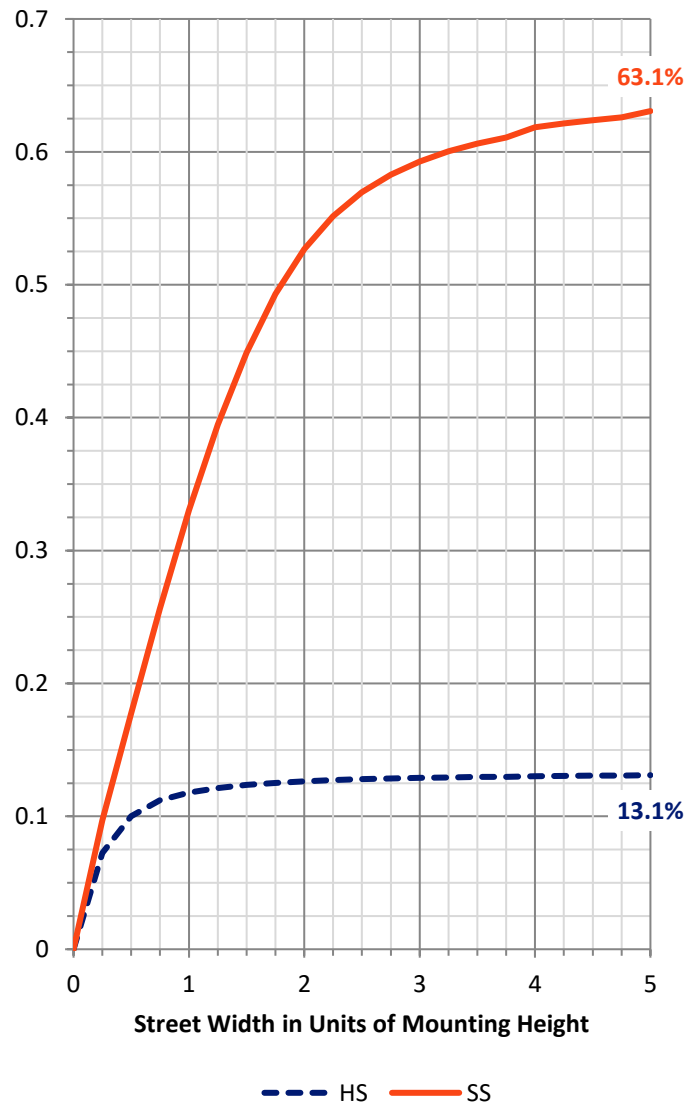
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1043.2	887.5	1930.7
	% Fixture	13.3	11.3	24.6
Street Side	Lumens	5036.2	887.7	5923.9
	% Fixture	64.1	11.3	75.4
Total	Lumens	6079.4	1775.2	7854.6
	% Fixture	77.4	22.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.9
10°-20°	286.3	3.6
20°-30°	408.2	5.2
30°-40°	592.2	7.5
40°-50°	847.1	10.8
50°-60°	1300.7	16.6
60°-70°	1505.5	19.2
70°-80°	768.0	9.8
80°-90°	222.7	2.8
90°-100°	9.7	0.1
100°-110°	58.7	0.7
110°-120°	169.9	2.2
120°-130°	279.4	3.6
130°-140°	344.6	4.4
140°-150°	352.5	4.5
150°-160°	297.0	3.8
160°-170°	195.5	2.5
170°-180°	67.8	0.9
0°-90°	6079.4	77.4
0°-180°	7854.6	100.0



REPORT NUMBER: P227290

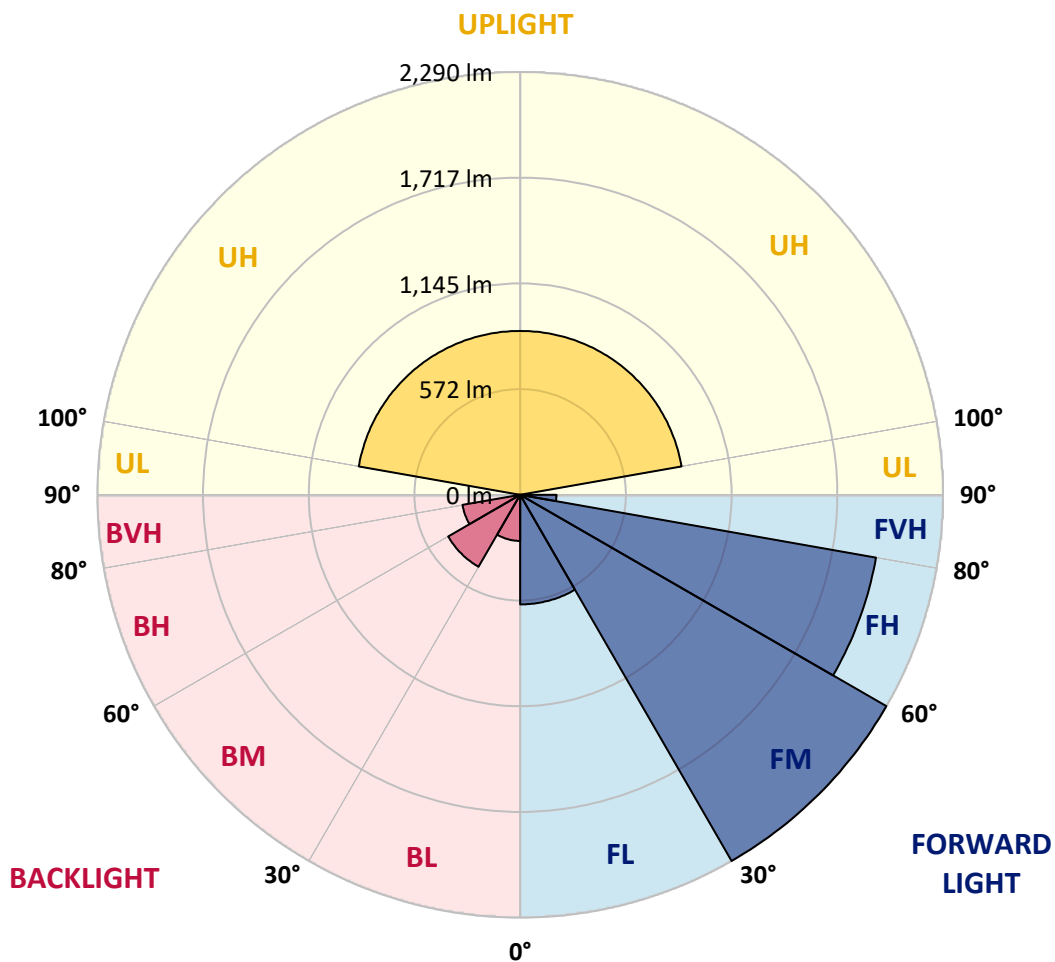
CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.7	7.6			
FM	(30°-60°)	2289.8	29.2			
FH	(60°-80°)	1956.4	24.9			G2/5000
FVH	(80°-90°)	196.4	2.5			G2/225
BL	(0°-30°)	249.6	3.2	B1/500		
BM	(30°-60°)	450.2	5.7	B1/1000		
BH	(60°-80°)	317.1	4.0	B1/500		G1/500
BVH	(80°-90°)	26.3	0.3			G1/100
UL	(90°-100°)	9.7	0.1		U1/10	
UH	(100°-180°)	887.5	11.3		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2
2.5°	2078.7	2066.5	2051.1	2024.5	2001.0	1967.2	1959.1	1917.1	1890.5	1896.7	1848.6
5°	1951.9	1944.7	1906.9	1847.6	1808.7	1732.0	1688.0	1665.5	1602.0	1593.9	1576.5
7.5°	1773.9	1752.4	1691.0	1617.4	1550.9	1494.6	1424.0	1369.8	1321.8	1292.1	1239.9
10°	1621.5	1599.0	1532.5	1442.5	1362.7	1283.9	1226.6	1155.9	1087.4	1034.2	992.3
12.5°	1547.8	1523.3	1445.5	1341.2	1252.2	1153.9	1073.1	1003.5	965.7	939.1	904.3
15°	1576.5	1540.7	1447.6	1322.8	1212.3	1107.9	1021.9	947.3	902.2	861.3	820.4
17.5°	1692.1	1648.1	1541.7	1391.3	1237.9	1102.7	980.0	895.1	823.5	762.1	706.9
20°	1890.5	1857.8	1703.3	1492.6	1293.1	1105.8	944.2	832.7	745.7	668.0	594.3
22.5°	2122.7	2073.6	1922.2	1629.7	1363.7	1124.2	921.7	780.5	677.2	572.9	493.1
25°	2366.2	2328.3	2127.8	1813.8	1472.1	1162.1	904.3	734.5	596.4	480.8	392.8
27.5°	2562.6	2528.8	2330.4	1990.8	1571.4	1194.8	878.7	690.5	531.9	392.8	295.6
30°	2723.2	2694.6	2486.9	2136.0	1692.1	1206.2	842.9	639.3	460.3	317.1	244.5
32.5°	2903.2	2871.5	2637.3	2237.3	1746.3	1195.8	802.0	591.3	403.0	280.3	209.7
35°	3100.7	3063.8	2805.0	2346.8	1791.3	1160.0	767.2	556.5	375.4	254.7	186.2
37.5°	3276.6	3253.1	2956.4	2455.2	1842.4	1100.7	733.5	518.6	357.0	236.3	167.8
40°	3413.7	3407.6	3124.2	2545.2	1882.3	1057.7	705.8	489.0	333.5	229.1	161.6
42.5°	3524.2	3522.1	3261.3	2626.0	1892.6	1019.9	684.4	462.4	312.0	211.8	164.7
45°	3630.7	3629.6	3394.3	2738.5	1899.7	1021.9	668.0	446.0	293.6	200.5	155.5
47.5°	3731.9	3747.3	3533.4	2895.1	1975.4	1056.7	661.8	430.7	279.3	188.2	147.3
50°	3901.7	3886.4	3753.4	3106.8	2097.2	1124.2	651.6	417.4	266.0	177.0	139.1
52.5°	4224.0	4206.6	4087.9	3390.2	2230.1	1193.8	638.3	399.0	250.6	164.7	129.9
55°	4617.8	4641.3	4476.6	3735.0	2411.2	1252.2	624.0	374.4	230.2	150.4	123.8
57.5°	4849.0	4829.6	4641.3	3933.5	2522.7	1281.9	614.8	345.8	198.5	138.1	117.6
59°	4903.2	4870.5	4613.7	3967.2	2552.4	1267.5	609.7	318.1	182.1	132.0	114.6
60°	4898.1	4858.2	4569.7	3945.7	2560.5	1250.1	601.5	301.8	172.9	128.9	113.5
62.5°	4792.7	4730.3	4320.1	3685.9	2446.0	1163.1	567.7	262.9	160.6	124.8	107.4
65°	4553.4	4465.4	3900.7	3178.4	2183.1	990.2	491.0	248.6	163.7	122.8	103.3
67.5°	4140.1	4069.5	3361.5	2630.1	1740.1	799.9	424.5	242.4	167.8	124.8	97.2
70°	3367.7	3307.3	2622.9	1969.3	1303.3	636.3	385.7	239.4	164.7	119.7	92.1
72.5°	2375.4	2271.1	1743.2	1379.0	826.5	511.5	334.5	226.1	160.6	115.6	83.9
75°	1445.5	1465.0	1107.9	1004.5	521.7	350.9	262.9	190.3	142.2	103.3	75.7
77.5°	953.4	952.4	817.3	708.9	264.9	217.9	186.2	146.3	111.5	84.9	65.5
80°	646.5	653.7	593.3	483.9	147.3	130.9	121.7	106.4	81.8	64.4	54.2
82.5°	397.9	399.0	459.3	362.1	98.2	82.9	77.7	71.6	58.3	50.1	41.9
85°	138.1	141.2	160.6	255.7	66.5	54.2	54.2	50.1	44.0	33.8	27.6
87.5°	59.3	58.3	69.6	69.6	32.7	27.6	25.6	25.6	24.6	18.4	15.3
90°	9.2	8.2	8.2	10.2	12.3	14.8	14.3	15.3	15.3	13.8	11.3
92.5°	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.9	21.5
102.5°	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	34.3	40.9
105°	21.5	21.7	22.5	25.1	27.6	32.2	36.8	43.0	49.1	56.8	64.4
107.5°	41.9	42.1	43.0	46.5	50.1	54.7	59.3	67.0	74.7	82.3	90.0



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	67.5	67.9	69.6	72.6	75.7	82.3	89.0	96.7	104.3	110.5	116.6
112.5°	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	141.7	146.3
115°	143.2	143.0	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.9	178.0
117.5°	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	208.2	209.7
120°	230.2	229.8	228.1	229.7	231.2	234.8	238.3	240.4	242.4	245.5	248.6
122.5°	269.0	268.4	266.0	266.5	267.0	270.1	273.1	275.2	277.2	280.3	283.4
125°	304.8	304.0	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.6	317.1
127.5°	337.6	337.4	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.3	347.8
130°	371.3	370.9	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.5	380.5
132.5°	405.1	404.7	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.8	414.3
135°	438.8	438.2	435.8	435.8	435.8	438.8	441.9	443.4	445.0	446.0	447.0
137.5°	470.6	469.9	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.7	478.7
140°	499.2	498.6	496.1	497.2	498.2	499.2	500.2	501.2	502.3	505.3	508.4
142.5°	529.9	529.3	526.8	527.8	528.9	529.4	529.9	531.4	533.0	535.0	537.0
145°	562.6	561.8	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.1	563.6
147.5°	588.2	587.6	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.7	588.2
150°	608.7	608.0	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	624.4	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0
155°	643.4	642.6	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.4	642.4
157.5°	660.8	660.2	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.3	659.8
160°	678.2	677.6	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0
162.5°	688.4	687.6	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.2	678.2
165°	696.6	696.0	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4
167.5°	705.8	705.2	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.3	700.7
170°	714.0	713.4	711.0	709.4	707.9	707.9	707.9	708.4	708.9	707.9	706.9
172.5°	715.0	714.6	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8
175°	716.1	715.7	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.3	705.8
177.5°	723.2	722.8	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.0	711.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2
2.5°	1834.3	1823.0	1791.3	1783.1	1793.3	1772.9	1767.8	1762.6	1724.8	1744.2	1721.7
5°	1533.5	1530.4	1466.0	1479.3	1466.0	1443.5	1434.3	1455.8	1417.9	1426.1	1431.2
7.5°	1178.4	1166.2	1123.2	1094.6	1077.2	1061.8	1042.4	1010.7	1035.2	1030.1	1069.0
10°	956.5	929.9	903.3	863.4	840.9	819.4	796.9	784.6	756.0	752.9	739.6
12.5°	876.7	838.8	805.1	770.3	746.8	703.8	668.0	645.5	627.1	598.4	576.9
15°	770.3	738.6	694.6	660.8	624.0	585.1	550.3	521.7	508.4	481.8	469.5
17.5°	662.9	614.8	561.6	527.8	476.7	436.8	408.2	389.7	370.3	353.9	339.6
20°	534.0	471.6	414.3	371.3	331.4	292.6	279.3	256.8	248.6	242.4	247.6
22.5°	406.1	341.7	282.3	249.6	228.1	217.9	206.6	202.5	199.5	198.5	200.5
25°	297.7	243.5	214.8	202.5	194.4	188.2	184.1	181.1	179.0	178.0	179.0
27.5°	230.2	201.5	187.2	179.0	172.9	168.8	166.7	163.7	162.6	161.6	162.6
30°	199.5	184.1	173.9	165.7	158.6	151.4	148.3	147.3	148.3	149.4	148.3
32.5°	173.9	162.6	151.4	144.2	139.1	135.0	135.0	133.0	133.0	136.1	137.1
35°	157.5	146.3	138.1	128.9	122.8	118.7	115.6	113.5	114.6	114.6	117.6
37.5°	144.2	136.1	128.9	120.7	114.6	110.5	108.4	106.4	105.4	104.3	104.3
40°	135.0	129.9	123.8	115.6	109.5	105.4	103.3	101.3	100.2	99.2	99.2
42.5°	135.0	124.8	120.7	113.5	106.4	102.3	99.2	97.2	95.1	95.1	95.1
45°	148.3	127.9	120.7	112.5	105.4	100.2	97.2	94.1	92.1	92.1	91.0
47.5°	144.2	143.2	122.8	112.5	106.4	100.2	96.2	93.1	91.0	90.0	89.0
50°	137.1	149.4	137.1	115.6	106.4	99.2	95.1	92.1	89.0	88.0	88.0
52.5°	133.0	139.1	142.2	119.7	107.4	99.2	94.1	91.0	89.0	87.0	85.9
55°	122.8	130.9	136.1	117.6	107.4	97.2	92.1	89.0	85.9	84.9	83.9
57.5°	112.5	118.7	130.9	117.6	104.3	96.2	90.0	85.9	83.9	82.9	81.8
59°	109.5	109.5	116.6	120.7	102.3	95.1	89.0	84.9	82.9	81.8	79.8
60°	106.4	106.4	110.5	123.8	101.3	94.1	88.0	83.9	80.8	80.8	79.8
62.5°	102.3	99.2	101.3	115.6	98.2	92.1	85.9	81.8	78.8	78.8	77.7
65°	97.2	93.1	93.1	96.2	92.1	88.0	83.9	79.8	75.7	75.7	76.7
67.5°	92.1	88.0	87.0	87.0	84.9	83.9	79.8	75.7	73.7	73.7	73.7
70°	84.9	81.8	80.8	78.8	78.8	77.7	74.7	71.6	69.6	70.6	69.6
72.5°	76.7	74.7	72.6	72.6	71.6	70.6	67.5	65.5	64.4	65.5	65.5
75°	68.5	65.5	65.5	63.4	63.4	62.4	59.3	58.3	57.3	58.3	59.3
77.5°	58.3	56.3	55.2	55.2	55.2	55.2	51.1	50.1	50.1	52.2	52.2
80°	48.1	47.1	46.0	46.0	46.0	45.0	43.0	41.9	41.9	43.0	44.0
82.5°	36.8	34.8	34.8	35.8	36.8	36.8	33.8	31.7	31.7	33.8	35.8
85°	24.6	24.6	24.6	25.6	25.6	26.6	24.6	21.5	22.5	23.5	26.6
87.5°	13.3	14.3	13.3	12.3	14.3	13.3	13.3	12.3	13.3	14.3	15.3
90°	11.3	11.3	11.3	11.3	10.2	11.3	10.2	10.2	8.2	8.2	10.2
92.5°	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2	8.2	8.2	8.7
100°	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4	19.4	19.4	21.5
102.5°	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9	38.9	39.9	41.4
105°	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4	62.4	62.4	64.4
107.5°	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0	88.0	89.0	90.5



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	119.7	118.7	120.2
112.5°	148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	150.4	150.4	151.4
115°	180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	182.1	181.1	182.1
117.5°	212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	213.8	212.8	213.8
120°	250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	248.6	248.6	249.6
122.5°	284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	283.4	282.3	283.4
125°	318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	317.1	317.1	317.1
127.5°	350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	355.0	352.9	353.4
130°	383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	388.7	387.7	388.7
132.5°	417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	424.5	423.5	423.5
135°	450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	461.4	460.3	458.8
137.5°	481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	493.1	492.0	489.5
140°	509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	522.7	520.7	518.1
142.5°	538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	548.3	546.3	545.7
145°	566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	572.9	570.8	572.3
147.5°	590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	598.4	596.4	597.9
150°	608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	624.0	619.9	618.4
152.5°	624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	642.4	637.3	634.7
155°	641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	655.7	652.6	651.6
157.5°	659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	670.0	664.9	664.9
160°	671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	681.3	675.1	675.7
162.5°	680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	689.5	683.3	684.4
165°	687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	697.7	693.6	694.6
167.5°	697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	709.9	703.8	703.8
170°	704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	717.1	712.0	711.0
172.5°	705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	717.1	712.0	711.0
175°	705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	715.0	709.9	711.0
177.5°	710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	718.1	714.0	715.6
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2
2.5°	1742.2	1724.8	1715.6	1751.4	1748.3	1717.6	1717.6	1739.1	1740.1	1721.7	1743.2
5°	1437.3	1420.0	1436.3	1422.0	1430.2	1429.2	1441.4	1418.9	1428.1	1420.0	1400.5
7.5°	1065.9	1100.7	1119.1	1095.6	1125.2	1140.6	1119.1	1140.6	1106.8	1079.2	1105.8
10°	733.5	772.3	765.2	803.0	817.3	825.5	840.9	821.4	797.9	790.7	771.3
12.5°	568.8	560.6	557.5	572.9	582.1	568.8	580.0	567.7	555.5	534.0	533.0
15°	445.0	431.7	422.5	405.1	399.0	402.0	407.1	407.1	382.6	383.6	392.8
17.5°	337.6	334.5	327.3	313.0	303.8	306.9	305.9	300.7	297.7	299.7	311.0
20°	253.7	250.6	254.7	258.8	255.7	256.8	252.7	247.6	245.5	247.6	249.6
22.5°	200.5	204.6	209.7	215.8	216.9	222.0	221.0	222.0	217.9	215.8	210.7
25°	183.1	185.2	182.1	183.1	183.1	188.2	187.2	187.2	183.1	182.1	183.1
27.5°	161.6	160.6	160.6	162.6	162.6	165.7	167.8	165.7	161.6	160.6	161.6
30°	149.4	148.3	147.3	148.3	147.3	148.3	150.4	150.4	148.3	145.3	146.3
32.5°	137.1	137.1	136.1	137.1	136.1	136.1	138.1	135.0	135.0	134.0	134.0
35°	120.7	122.8	124.8	125.8	125.8	125.8	127.9	124.8	123.8	122.8	122.8
37.5°	104.3	106.4	112.5	115.6	116.6	118.7	119.7	117.6	115.6	113.5	111.5
40°	99.2	99.2	101.3	105.4	109.5	110.5	112.5	109.5	108.4	105.4	102.3
42.5°	95.1	96.2	96.2	97.2	98.2	100.2	103.3	100.2	98.2	96.2	93.1
45°	92.1	92.1	92.1	92.1	91.0	91.0	92.1	90.0	89.0	88.0	88.0
47.5°	90.0	89.0	88.0	87.0	85.9	84.9	84.9	82.9	82.9	82.9	82.9
50°	88.0	85.9	84.9	83.9	81.8	81.8	81.8	79.8	78.8	78.8	79.8
52.5°	84.9	83.9	82.9	81.8	80.8	79.8	79.8	77.7	76.7	76.7	76.7
55°	83.9	82.9	80.8	79.8	78.8	79.8	78.8	77.7	75.7	75.7	75.7
57.5°	80.8	81.8	80.8	78.8	78.8	78.8	78.8	76.7	75.7	73.7	74.7
59°	79.8	80.8	79.8	78.8	77.7	78.8	78.8	75.7	74.7	73.7	73.7
60°	78.8	79.8	78.8	77.7	77.7	78.8	77.7	76.7	74.7	71.6	72.6
62.5°	77.7	77.7	76.7	76.7	75.7	76.7	75.7	73.7	71.6	69.6	68.5
65°	75.7	75.7	74.7	74.7	73.7	73.7	73.7	71.6	69.6	67.5	67.5
67.5°	74.7	73.7	72.6	72.6	71.6	71.6	71.6	69.6	66.5	65.5	64.4
70°	70.6	69.6	69.6	68.5	67.5	68.5	69.6	66.5	63.4	61.4	60.4
72.5°	66.5	65.5	65.5	64.4	64.4	65.5	66.5	63.4	59.3	57.3	56.3
75°	60.4	59.3	59.3	59.3	59.3	61.4	61.4	58.3	55.2	52.2	50.1
77.5°	52.2	53.2	53.2	53.2	53.2	55.2	55.2	53.2	50.1	48.1	45.0
80°	45.0	45.0	46.0	46.0	47.1	47.1	46.0	45.0	44.0	41.9	37.8
82.5°	37.8	37.8	37.8	37.8	37.8	36.8	34.8	36.8	36.8	34.8	31.7
85°	29.7	29.7	29.7	30.7	30.7	27.6	24.6	24.6	27.6	26.6	24.6
87.5°	17.4	17.4	18.4	21.5	19.4	18.4	15.3	16.4	15.3	17.4	14.3
90°	13.3	12.3	12.3	9.2	9.2	7.2	7.2	7.7	8.2	8.2	8.2
92.5°	6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.7	10.2	11.3	12.3	10.7	9.2	9.2	9.2	8.7	8.2
100°	23.5	25.1	26.6	28.1	29.7	25.6	21.5	16.9	12.3	11.3	10.2
102.5°	43.0	45.5	48.1	49.6	51.1	46.0	40.9	34.3	27.6	23.0	18.4
105°	66.5	69.0	71.6	72.6	73.7	69.0	64.4	56.8	49.1	43.0	36.8
107.5°	92.1	94.1	96.2	96.7	97.2	93.6	90.0	82.3	74.7	67.0	59.3



REPORT NUMBER: P227290
 CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	121.7	122.8	123.8	123.3	122.8	119.7	116.6	110.5	104.3	96.7	89.0	0°
112.5°	152.4	152.9	153.4	152.4	151.4	148.8	146.3	141.7	137.1	130.4	123.8	2.5°
115°	183.1	184.6	186.2	184.6	183.1	180.6	178.0	174.9	171.9	167.3	162.6	5°
117.5°	214.8	217.4	219.9	217.9	215.8	212.8	209.7	208.2	206.6	204.1	201.5	7.5°
120°	250.6	253.2	255.7	253.7	251.6	250.1	248.6	245.5	242.4	240.4	238.3	10°
122.5°	284.4	286.9	289.5	287.4	285.4	284.4	283.4	280.3	277.2	275.2	273.1	12.5°
125°	317.1	319.7	322.2	321.2	320.2	318.6	317.1	314.6	312.0	308.9	305.9	15°
127.5°	353.9	353.9	353.9	353.4	352.9	350.4	347.8	347.3	346.8	343.7	340.6	17.5°
130°	389.7	389.7	389.7	387.7	385.7	383.1	380.5	379.5	378.5	376.4	374.4	20°
132.5°	423.5	424.5	425.5	423.0	420.4	417.4	414.3	413.8	413.3	411.7	410.2	22.5°
135°	457.3	457.8	458.3	455.7	453.2	450.1	447.0	446.0	445.0	443.4	441.9	25°
137.5°	486.9	486.4	485.9	484.9	483.9	481.3	478.7	476.7	474.6	472.6	470.6	27.5°
140°	515.6	514.5	513.5	512.5	511.5	509.9	508.4	505.3	502.3	501.2	500.2	30°
142.5°	545.2	545.2	545.2	542.2	539.1	538.1	537.0	535.0	533.0	531.4	529.9	32.5°
145°	573.9	574.4	574.9	571.8	568.8	566.2	563.6	563.1	562.6	561.1	559.6	35°
147.5°	599.4	598.9	598.4	595.9	593.3	590.8	588.2	587.7	587.2	587.2	587.2	37.5°
150°	616.8	615.3	613.8	612.2	610.7	608.7	606.6	606.6	606.6	606.6	606.6	40°
152.5°	632.2	630.1	628.1	626.6	625.0	624.5	624.0	624.0	624.0	623.5	623.0	42.5°
155°	650.6	648.0	645.5	642.9	640.4	641.4	642.4	643.4	644.5	642.9	641.4	45°
157.5°	664.9	663.9	662.9	660.8	658.8	659.3	659.8	660.3	660.8	659.8	658.8	47.5°
160°	676.2	677.7	679.2	676.2	673.1	671.6	670.0	670.0	670.0	670.5	671.1	50°
162.5°	685.4	685.9	686.4	684.4	682.3	680.3	678.2	677.2	676.2	678.2	680.3	52.5°
165°	695.6	694.1	692.5	690.0	687.4	687.9	688.4	688.4	688.4	690.0	691.5	55°
167.5°	703.8	701.7	699.7	696.6	693.6	697.1	700.7	702.3	703.8	702.8	701.7	57.5°
170°	709.9	707.4	704.8	703.3	701.7	704.3	706.9	707.9	708.9	708.4	707.9	59°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	60°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	62.5°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	65°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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: P227290
 NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	110°	82.3
1745.3	1749.3	1758.6	1755.5	1789.2	1779.0	1802.5	1834.3	1863.9	1849.6	1853.7	112.5°	116.1
1435.3	1440.4	1401.5	1425.1	1459.9	1445.5	1440.4	1487.5	1476.2	1529.4	1485.4	115°	156.5
1062.8	1050.6	1032.2	1023.0	997.4	997.4	1045.5	1066.9	1063.9	1100.7	1138.5	117.5°	197.4
746.8	732.4	709.9	703.8	729.4	741.6	763.1	784.6	813.2	855.2	879.7	120°	234.8
548.3	543.2	548.3	563.6	587.2	604.6	637.3	675.1	706.9	740.6	773.4	122.5°	270.1
414.3	424.5	437.8	448.1	466.5	499.2	516.6	558.5	587.2	616.8	654.7	125°	304.3
322.2	328.4	331.4	335.5	350.9	374.4	374.4	417.4	455.2	494.1	525.8	127.5°	338.6
245.5	245.5	235.3	241.4	243.5	241.4	253.7	278.2	302.8	328.4	378.5	130°	372.4
205.6	199.5	196.4	195.4	196.4	200.5	207.7	216.9	221.0	232.2	251.6	132.5°	406.1
182.1	181.1	178.0	178.0	180.0	181.1	188.2	196.4	198.5	201.5	208.7	135°	438.8
160.6	162.6	165.7	164.7	165.7	167.8	172.9	180.0	184.1	185.2	190.3	137.5°	470.0
145.3	147.3	148.3	151.4	151.4	152.4	156.5	163.7	166.7	171.9	177.0	140°	499.2
135.0	136.1	137.1	136.1	137.1	137.1	142.2	149.4	153.4	156.5	159.6	142.5°	529.4
123.8	122.8	122.8	122.8	119.7	118.7	120.7	127.9	128.9	132.0	139.1	145°	558.0
110.5	107.4	105.4	105.4	105.4	106.4	111.5	118.7	119.7	122.8	128.9	147.5°	585.6
98.2	97.2	97.2	98.2	99.2	101.3	105.4	112.5	113.5	116.6	121.7	150°	606.6
92.1	92.1	92.1	93.1	94.1	95.1	100.2	107.4	109.5	112.5	118.7	152.5°	622.5
88.0	89.0	88.0	88.0	89.0	91.0	96.2	104.3	107.4	110.5	116.6	155°	640.4
84.9	84.9	84.9	85.9	85.9	88.0	94.1	102.3	104.3	108.4	117.6	157.5°	658.3
80.8	82.9	81.8	82.9	83.9	85.9	92.1	100.2	103.3	109.5	119.7	160°	672.6
78.8	78.8	78.8	79.8	81.8	82.9	88.0	97.2	101.3	109.5	125.8	162.5°	682.3
77.7	75.7	75.7	76.7	78.8	80.8	85.9	95.1	100.2	108.4	124.8	165°	691.5
76.7	73.7	72.6	73.7	75.7	76.7	82.9	92.1	99.2	105.4	120.7	167.5°	700.7
73.7	71.6	70.6	71.6	73.7	75.7	80.8	90.0	95.1	103.3	115.6	170°	707.9
72.6	69.6	69.6	70.6	72.6	73.7	78.8	88.0	93.1	104.3	118.7	172.5°	709.9
68.5	67.5	67.5	68.5	68.5	70.6	76.7	85.9	90.0	106.4	99.2	175°	712.0
65.5	65.5	65.5	65.5	66.5	67.5	74.7	83.9	85.9	92.1	84.9	177.5°	715.6
63.4	63.4	63.4	63.4	63.4	65.5	71.6	80.8	81.8	80.8	77.7	180°	716.1
59.3	59.3	59.3	59.3	60.4	61.4	67.5	75.7	75.7	73.7	73.7		
56.3	55.2	55.2	55.2	55.2	56.3	62.4	70.6	69.6	68.5	68.5		
50.1	50.1	50.1	50.1	50.1	50.1	56.3	64.4	63.4	62.4	61.4		
44.0	44.0	45.0	44.0	43.0	41.9	48.1	57.3	57.3	56.3	55.2		
37.8	36.8	37.8	36.8	34.8	34.8	39.9	48.1	49.1	48.1	46.0		
30.7	29.7	29.7	29.7	25.6	25.6	30.7	38.9	38.9	37.8	35.8		
23.5	22.5	21.5	20.5	17.4	17.4	21.5	28.6	29.7	25.6	24.6		
12.3	12.3	12.3	9.2	8.2	7.2	11.3	17.4	17.4	14.3	12.3		
7.7	7.2	6.1	5.1	5.1	5.1	6.1	8.2	7.7	8.2	8.2		
5.6	5.1	4.6	4.1	4.1	4.1	4.6	5.1	5.6	6.1	6.1		
6.6	6.1	5.6	5.1	5.1	5.1	5.6	6.1	6.6	7.2	7.2		
8.2	8.2	7.7	7.2	7.2	7.2	7.7	8.2	8.2	8.2	8.7		
9.7	9.2	8.7	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3		
15.9	13.3	12.3	11.3	11.3	11.3	12.3	13.3	15.9	18.4	23.0		
32.2	27.6	25.1	22.5	21.5	22.5	25.1	27.6	32.2	36.8	43.0		
54.7	50.1	46.5	43.0	41.9	43.0	46.5	50.1	54.7	59.3	67.0		

'227290
 ISW-AF-1200-LED-E1-SLR-ULG

REPORT NUMBER: P227290
 CATALOG NUMBER: ISW-AF-1:

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
75.7	72.6	69.6	67.5	69.6	72.6	75.7	82.3	89.0	96.7	0°	2008.2	2008.2
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	1879.3	1888.5
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	1518.2	1554.0
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	1147.8	1195.8
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	919.6	952.4
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	807.1	854.2
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	692.5	743.7
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	567.7	630.1
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	433.7	495.1
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	304.8	357.0
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	222.0	245.5
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	197.4	206.6
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	185.2	191.3
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	166.7	172.9
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	146.3	154.5
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	136.1	142.2
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	129.9	130.9
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	124.8	124.8
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	121.7	124.8
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	123.8	137.1
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	139.1	135.0
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	142.2	126.8
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	129.9	121.7
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	116.6	106.4
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	104.3	98.2
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	97.2	95.1
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	89.0	91.0
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	82.9	87.0
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	79.8	82.9
										70°	74.7	76.7
										72.5°	69.6	70.6
										75°	62.4	63.4
										77.5°	55.2	55.2
										80°	45.0	45.0
										82.5°	34.8	33.8
										85°	22.5	21.5
										87.5°	10.2	8.2
										90°	8.2	7.7
										92.5°	6.1	6.1
										95°	7.2	7.2
										97.5°	9.2	9.2
										100°	12.3	16.9
										102.5°	27.6	34.3
										105°	49.1	56.8
										107.5°	74.7	82.3



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E:

200-LED-E1-SLR-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	110°	104.3	110.5	116.6
1934.5	1963.1	1985.6	1981.6	2029.6	2058.3	2062.4	2092.0	2120.7	112.5°	137.1	141.7	146.3
1582.6	1622.5	1661.4	1690.0	1765.7	1828.1	1876.2	1927.3	1987.7	115°	171.9	174.9	178.0
1261.4	1295.2	1358.6	1404.6	1484.4	1557.0	1627.6	1708.4	1777.0	117.5°	206.6	208.2	209.7
988.2	1031.1	1090.5	1176.4	1248.1	1331.0	1420.0	1496.7	1611.2	120°	242.4	245.5	248.6
887.9	914.5	963.6	1004.5	1093.5	1181.5	1281.9	1387.2	1492.6	122.5°	277.2	280.3	283.4
784.6	831.7	877.7	937.0	1014.8	1110.9	1219.5	1333.0	1451.7	125°	312.0	314.6	317.1
684.4	746.8	796.9	861.3	948.3	1070.0	1211.3	1352.4	1491.6	127.5°	346.8	347.3	347.8
561.6	619.9	707.9	773.4	886.9	1039.3	1220.5	1415.9	1604.1	130°	378.5	379.5	380.5
441.9	504.3	604.6	701.7	826.5	1023.0	1257.3	1520.2	1771.9	132.5°	413.3	413.8	414.3
316.1	401.0	500.2	623.0	774.4	1012.7	1307.4	1649.1	1987.7	135°	445.0	446.0	447.0
236.3	295.6	416.3	550.3	716.1	994.3	1360.6	1768.8	2135.0	137.5°	474.6	476.7	478.7
210.7	252.7	331.4	472.6	644.5	958.5	1400.5	1882.3	2269.0	140°	502.3	505.3	508.4
184.1	216.9	279.3	399.0	580.0	903.3	1417.9	1942.7	2362.1	142.5°	533.0	535.0	537.0
161.6	192.3	255.7	370.3	547.3	840.9	1414.8	2003.0	2478.7	145°	562.6	563.1	563.6
147.3	173.9	245.5	363.1	521.7	783.6	1417.9	2100.2	2651.6	147.5°	587.2	587.7	588.2
136.1	166.7	237.3	347.8	509.4	751.9	1430.2	2186.1	2799.9	150°	606.6	606.6	606.6
136.1	164.7	216.9	326.3	503.3	754.9	1435.3	2252.6	2910.4	152.5°	624.0	624.0	624.0
143.2	154.5	201.5	314.0	507.4	777.4	1429.2	2320.2	3017.8	155°	644.5	643.4	642.4
136.1	144.2	191.3	312.0	507.4	793.8	1447.6	2404.0	3159.0	157.5°	660.8	660.3	659.8
128.9	134.0	188.2	308.9	497.2	809.2	1523.3	2560.5	3343.1	160°	670.0	670.0	670.0
119.7	125.8	184.1	303.8	485.9	828.6	1657.3	2823.4	3648.0	162.5°	676.2	677.2	678.2
108.4	120.7	178.0	295.6	478.7	863.4	1794.4	3089.4	4011.2	165°	688.4	688.4	688.4
104.3	115.6	163.7	276.2	471.6	901.2	1940.6	3344.1	4337.5	167.5°	703.8	702.3	700.7
101.3	111.5	151.4	261.9	465.4	919.6	1984.6	3441.3	4463.3	170°	708.9	707.9	706.9
99.2	109.5	144.2	249.6	458.3	920.7	2016.3	3478.1	4481.8	172.5°	705.8	705.8	705.8
96.2	105.4	129.9	224.0	435.8	919.6	2019.4	3501.7	4428.6	175°	706.9	706.3	705.8
91.0	101.3	130.9	210.7	394.9	876.7	1892.6	3388.1	4216.8	177.5°	713.0	712.0	711.0
87.0	98.2	138.1	213.8	351.9	766.2	1655.2	3035.2	3763.6	180°	716.1	716.1	716.1
80.8	96.2	144.2	221.0	339.6	636.3	1252.2	2478.7	3151.8				
74.7	95.1	149.4	226.1	326.3	523.8	867.5	1757.5	2359.0				
67.5	87.0	136.1	192.3	270.1	380.5	558.5	1149.8	1626.6				
58.3	69.6	99.2	135.0	198.5	266.0	330.4	694.6	1063.9				
48.1	52.2	70.6	87.0	132.0	157.5	183.1	391.8	743.7				
35.8	36.8	48.1	55.2	74.7	87.0	109.5	240.4	602.5				
20.5	23.5	32.7	36.8	45.0	55.2	71.6	153.4	472.6				
8.2	10.2	19.4	21.5	24.6	30.7	39.9	89.0	147.3				
7.2	7.2	7.2	8.2	9.2	9.2	9.2	8.2	7.2				
6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1				
7.2	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2				
9.2	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2				
21.5	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4				
40.9	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9				
64.4	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4				
90.0	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0				



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

1-SLR-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	0°	2008.2	2008.2	2008.2	2008.2
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	2149.3	2170.8	2189.2	2203.5
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	2052.1	2102.3	2162.6	2213.8
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	1879.3	1942.7	2040.9	2101.2
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	1715.6	1808.7	1916.1	2003.0
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	1604.1	1719.7	1822.0	1919.2
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	1573.4	1691.0	1783.1	1872.1
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	1634.8	1752.4	1831.2	1885.4
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	1779.0	1904.8	1955.0	1950.9
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	1976.4	2108.4	2108.4	2067.5
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	2237.3	2332.4	2280.3	2202.5
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	2422.4	2511.4	2420.4	2292.5
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	2575.9	2641.4	2525.8	2371.3
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	2710.9	2759.0	2606.6	2454.2
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	2872.5	2889.9	2690.5	2527.8
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	3051.6	3065.9	2811.2	2608.6
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	3262.3	3211.1	2900.2	2683.3
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	3392.2	3308.3	2964.6	2722.2
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	3494.5	3379.9	2994.3	2744.7
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	3620.4	3485.3	3046.4	2785.6
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	3786.1	3631.7	3178.4	2901.2
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	4125.8	3934.5	3415.7	3102.7
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	4516.5	4335.5	3795.4	3435.2
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	4829.6	4707.8	4133.9	3736.0
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	4945.1	4893.0	4373.3	3990.7
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	4988.1	5033.1	4500.2	4146.2
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	5017.8	5213.2	4912.4	4610.6
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	4956.4	5242.8	5079.2	4894.0
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	4689.4	5032.1	5000.4	4837.7
								70°	4143.2	4524.7	4635.2	4404.0
								72.5°	3117.0	3590.7	4193.3	3831.2
								75°	2030.7	2468.5	3580.4	3281.7
								77.5°	1271.6	1540.7	2554.4	2298.7
								80°	846.0	990.2	1621.5	1476.2
								82.5°	636.3	701.7	1115.0	1048.5
								85°	335.5	427.6	867.5	1099.7
								87.5°	125.8	140.1	652.6	983.1
								90°	7.2	7.2	9.2	9.2
								92.5°	6.1	6.1	6.1	6.1
								95°	7.2	7.2	7.2	7.2
								97.5°	8.2	8.2	8.7	9.2
								100°	19.4	19.4	21.5	23.5
								102.5°	38.9	39.9	41.4	43.0
								105°	62.4	62.4	64.4	66.5
								107.5°	88.0	89.0	90.5	92.1

REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	110°	119.7	118.7	120.2	121.7	122.8
2215.8	2234.2	2245.5	2237.3	2250.6	2253.7	2239.3	112.5°	150.4	150.4	151.4	152.4	152.9
2256.7	2307.9	2344.7	2370.3	2380.5	2389.7	2385.6	115°	182.1	181.1	182.1	183.1	184.6
2181.0	2259.8	2328.3	2375.4	2391.8	2404.0	2392.8	117.5°	213.8	212.8	213.8	214.8	217.4
2097.2	2179.0	2243.4	2290.5	2289.5	2301.7	2280.3	120°	248.6	248.6	249.6	250.6	253.2
2018.4	2098.2	2155.5	2153.4	2139.1	2103.3	2097.2	122.5°	283.4	282.3	283.4	284.4	286.9
1956.0	1997.9	2012.2	2009.2	1968.3	1947.8	1944.7	125°	317.1	317.1	317.1	317.1	319.7
1925.3	1923.2	1890.5	1854.7	1815.8	1813.8	1787.2	127.5°	355.0	352.9	353.4	353.9	353.9
1930.4	1863.9	1803.6	1742.2	1700.2	1691.0	1694.1	130°	388.7	387.7	388.7	389.7	389.7
1994.9	1877.2	1763.7	1701.3	1652.2	1637.8	1644.0	132.5°	424.5	423.5	423.5	423.5	424.5
2075.7	1918.1	1777.0	1681.8	1641.9	1624.5	1627.6	135°	461.4	460.3	458.8	457.3	457.8
2129.9	1965.2	1821.0	1703.3	1649.1	1632.7	1643.0	137.5°	493.1	492.0	489.5	486.9	486.4
2199.4	2029.6	1880.3	1758.6	1677.7	1656.3	1663.4	140°	522.7	520.7	518.1	515.6	514.5
2268.0	2099.2	1964.2	1826.1	1727.9	1688.0	1699.2	142.5°	548.3	546.3	545.7	545.2	545.2
2341.6	2180.0	2044.0	1918.1	1802.5	1740.1	1754.5	145°	572.9	570.8	572.3	573.9	574.4
2427.6	2274.1	2157.5	2041.9	1923.2	1871.1	1877.2	147.5°	598.4	596.4	597.9	599.4	598.9
2510.4	2366.2	2291.5	2205.6	2136.0	2056.2	2056.2	150°	624.0	619.9	618.4	616.8	615.3
2559.5	2485.9	2465.4	2440.9	2399.9	2342.7	2330.4	152.5°	642.4	637.3	634.7	632.2	630.1
2619.9	2628.1	2675.1	2724.2	2736.5	2680.2	2662.8	155°	655.7	652.6	651.6	650.6	648.0
2733.4	2819.4	2973.8	3107.8	3134.4	3180.5	3127.3	157.5°	670.0	664.9	664.9	664.9	663.9
2893.0	3051.6	3312.4	3531.3	3593.7	3597.8	3601.9	160°	681.3	675.1	675.7	676.2	677.7
3075.1	3302.2	3647.0	3907.9	4019.4	4049.0	4027.6	162.5°	689.5	683.3	684.4	685.4	685.9
3387.1	3592.7	3970.3	4251.6	4394.8	4464.4	4445.9	165°	697.7	693.6	694.6	695.6	694.1
3696.1	3951.9	4284.3	4561.5	4714.0	4791.7	4808.1	167.5°	709.9	703.8	703.8	703.8	701.7
3906.9	4146.2	4453.1	4708.8	4859.2	4952.3	4960.5	170°	717.1	712.0	711.0	709.9	707.4
4035.7	4254.7	4554.4	4779.4	4929.8	5008.6	5037.2	172.5°	717.1	712.0	711.0	709.9	708.9
4426.5	4466.4	4671.0	4819.3	4924.7	4960.5	4982.0	175°	715.0	709.9	711.0	712.0	711.5
4609.6	4442.9	4419.4	4511.4	4520.6	4497.1	4467.4	177.5°	718.1	714.0	715.6	717.1	716.1
4354.9	3965.2	3820.9	3808.7	3770.8	3755.5	3661.3	180°	716.1	716.1	716.1	716.1	716.1
3782.1	3220.4	2965.6	2827.5	2911.4	2908.4	2812.2						
3186.6	2614.8	2284.4	2085.9	2061.3	2057.3	1973.4						
2588.2	2052.1	1762.6	1666.5	1550.9	1516.1	1530.4						
1866.0	1465.0	1403.6	1477.2	1486.4	1459.9	1441.4						
1175.4	1101.7	1161.0	1295.2	1373.9	1339.1	1352.4						
980.0	867.5	871.6	1012.7	1065.9	1074.1	1046.5						
1087.4	868.5	712.0	694.6	676.2	425.5	592.3						
980.0	672.1	395.9	326.3	200.5	115.6	119.7						
9.2	9.2	8.2	7.2	7.2	7.2	7.7						
6.6	7.2	7.2	7.2	6.6	6.1	6.1						
7.7	8.2	7.7	7.2	7.2	7.2	7.2						
9.7	10.2	11.3	12.3	10.7	9.2	9.2						
25.1	26.6	28.1	29.7	25.6	21.5	16.9						
45.5	48.1	49.6	51.1	46.0	40.9	34.3						
69.0	71.6	72.6	73.7	69.0	64.4	56.8						
94.1	96.2	96.7	97.2	93.6	90.0	82.3						



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
123.8	123.3	122.8	119.7	116.6	110.5	0°	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	2236.3	2216.8	2195.4	2166.7	2171.8	2137.0
186.2	184.6	183.1	180.6	178.0	174.9	5°	2353.9	2320.2	2274.1	2215.8	2161.6	2092.0
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	2341.6	2287.4	2210.7	2122.7	2051.1	1950.9
255.7	253.7	251.6	250.1	248.6	245.5	10°	2236.3	2165.7	2103.3	2012.2	1919.2	1831.2
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	2089.0	2049.1	1994.9	1926.3	1836.3	1746.3
322.2	321.2	320.2	318.6	317.1	314.6	15°	1928.4	1931.4	1898.7	1880.3	1835.3	1763.7
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	1796.4	1827.1	1844.5	1873.1	1878.2	1843.5
389.7	387.7	385.7	383.1	380.5	379.5	20°	1708.4	1751.4	1805.6	1884.4	1967.2	2003.0
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	1659.3	1712.5	1799.5	1942.7	2094.1	2185.1
458.3	455.7	453.2	450.1	447.0	446.0	25°	1650.1	1720.7	1842.4	2017.4	2213.8	2341.6
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	1665.5	1757.5	1901.8	2101.2	2294.6	2479.7
513.5	512.5	511.5	509.9	508.4	505.3	30°	1714.6	1822.0	1979.5	2194.3	2394.8	2579.0
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	1761.6	1894.6	2068.5	2278.2	2479.7	2662.8
574.9	571.8	568.8	566.2	563.6	563.1	35°	1837.3	1971.3	2149.3	2342.7	2538.0	2745.7
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	1952.9	2070.6	2212.7	2392.8	2596.4	2811.2
613.8	612.2	610.7	608.7	606.6	606.6	40°	2117.6	2195.4	2287.4	2429.6	2625.0	2855.2
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	2364.1	2380.5	2412.2	2485.9	2650.6	2906.3
645.5	642.9	640.4	641.4	642.4	643.4	45°	2682.3	2633.2	2605.6	2595.3	2707.9	2939.0
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	3051.6	2955.4	2844.9	2791.7	2818.3	2991.2
679.2	676.2	673.1	671.6	670.0	670.0	50°	3532.4	3375.8	3159.0	3005.5	2992.2	3144.7
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	3973.3	3768.8	3495.5	3314.5	3240.8	3431.1
692.5	690.0	687.4	687.9	688.4	688.4	55°	4389.7	4232.2	3923.2	3698.2	3672.6	3810.7
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	4754.9	4618.8	4366.2	4072.6	4082.8	4216.8
704.8	703.3	701.7	704.3	706.9	707.9	59°	4944.1	4830.6	4596.3	4297.6	4320.1	4504.3
707.9	706.3	704.8	705.3	705.8	705.8	60°	5011.6	4916.5	4693.5	4441.9	4470.5	4661.8
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	5006.5	4945.1	4783.5	4664.9	4811.1	4951.3
715.0	712.5	709.9	710.4	711.0	712.0	65°	4528.8	4435.7	4417.3	4625.0	4907.3	5042.3
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	3601.9	3646.0	3820.9	4177.9	4651.6	4848.0
						70°	2675.1	2752.9	2986.1	3434.1	4084.8	4424.5
						72.5°	1967.2	2045.0	2259.8	2750.8	3360.5	3661.3
						75°	1543.7	1567.3	1721.7	2107.4	2648.5	2895.1
						77.5°	1426.1	1355.5	1292.1	1498.7	1786.2	1997.9
						80°	1327.9	1193.8	1044.4	1106.8	1176.4	1401.5
						82.5°	1031.1	942.1	825.5	905.3	938.0	945.2
						85°	603.5	537.0	680.3	963.6	953.4	834.7
						87.5°	212.8	276.2	311.0	534.0	645.5	558.5
						90°	8.2	11.3	17.4	17.9	22.5	11.3
						92.5°	6.1	6.1	6.1	5.6	5.1	4.6
						95°	7.2	7.2	7.2	6.6	6.1	5.6
						97.5°	9.2	8.7	8.2	8.2	8.2	7.7
						100°	12.3	11.3	10.2	9.7	9.2	8.7
						102.5°	27.6	23.0	18.4	15.9	13.3	12.3
						105°	49.1	43.0	36.8	32.2	27.6	25.1
						107.5°	74.7	67.0	59.3	54.7	50.1	46.5



REPORT NUMBER: P227290

CATALOG NUMBER: ISW-AF-1200-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
2008.2	2008.2	2008.2	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
2109.4	2080.8	2078.7	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
2036.8	1972.4	1951.9	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
1863.9	1789.2	1773.9	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
1718.7	1635.8	1621.5	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
1644.0	1565.2	1547.8	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
1672.6	1585.7	1576.5	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
1780.0	1688.0	1692.1	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
1964.2	1904.8	1890.5	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
2205.6	2141.1	2122.7	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
2411.2	2378.5	2366.2	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
2559.5	2574.9	2562.6	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
2678.2	2729.3	2723.2	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
2799.9	2899.1	2903.2	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
2889.9	3064.9	3100.7	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
3005.5	3239.8	3276.6	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
3093.5	3368.7	3413.7	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
3179.4	3475.1	3524.2	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
3250.0	3580.4	3630.7	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
3329.8	3682.8	3731.9	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
3473.0	3843.4	3901.7	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
3781.0	4141.1	4224.0	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
4226.0	4552.3	4617.8	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
4627.0	4831.6	4849.0	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
4791.7	4908.3	4903.2	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
4912.4	4926.7	4898.1	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
4977.9	4841.8	4792.7	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
4807.1	4617.8	4553.4	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
4314.0	4213.7	4140.1	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
3669.5	3415.7	3367.7								
2781.5	2447.0	2375.4								
1943.7	1542.7	1445.5								
1277.8	990.2	953.4								
828.6	657.8	646.5								
578.0	431.7	397.9								
355.0	144.2	138.1								
110.5	66.5	59.3								
8.2	9.2	9.2								
4.1	4.1	4.1								
5.1	5.1	5.1								
7.2	7.2	7.2								
8.2	8.2	8.2								
11.3	11.3	11.3								
22.5	21.7	21.5								
43.0	42.1	41.9								



359°	360°
67.9	67.5
101.3	101.3
143.0	143.2
188.2	188.2
229.8	230.2
268.4	269.0
304.0	304.8
337.4	337.6
370.9	371.3
404.7	405.1
438.2	438.8
469.9	470.6
498.6	499.2
529.3	529.9
561.8	562.6
587.6	588.2
608.0	608.7
624.4	625.0
642.6	643.4
660.2	660.8
677.6	678.2
687.6	688.4
696.0	696.6
705.2	705.8
713.4	714.0
714.6	715.0
715.7	716.1
722.8	723.2
716.1	716.1

(END OF REPORT)