

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: P227015

Luminaire Tested: **ISW-AF-600-LED-E1-SL4-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)-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-600-LED-E1-SL4-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, 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: 5520.7 lumens
Efficiency: N/A
Efficacy: 109.5 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 - G1

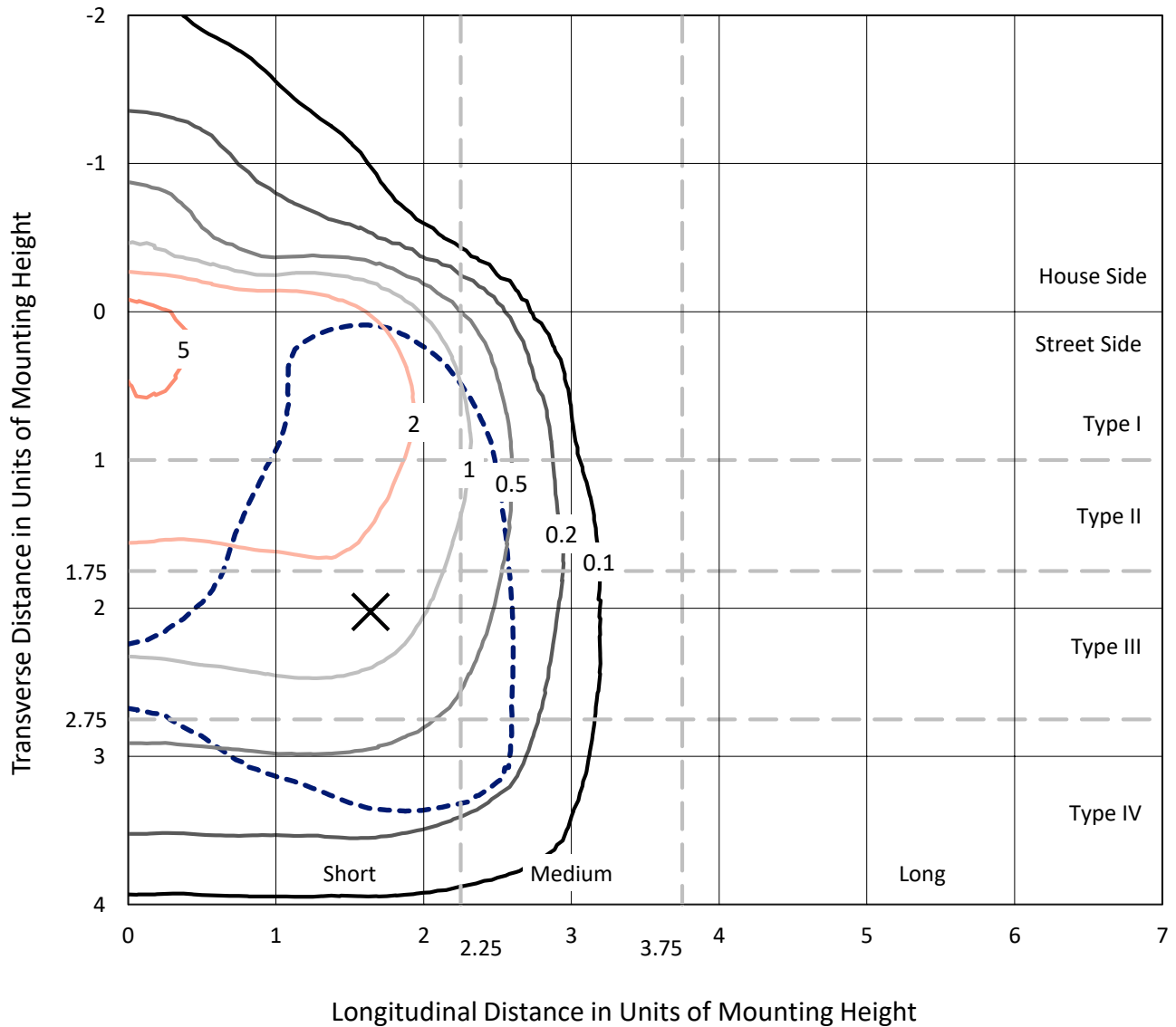
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

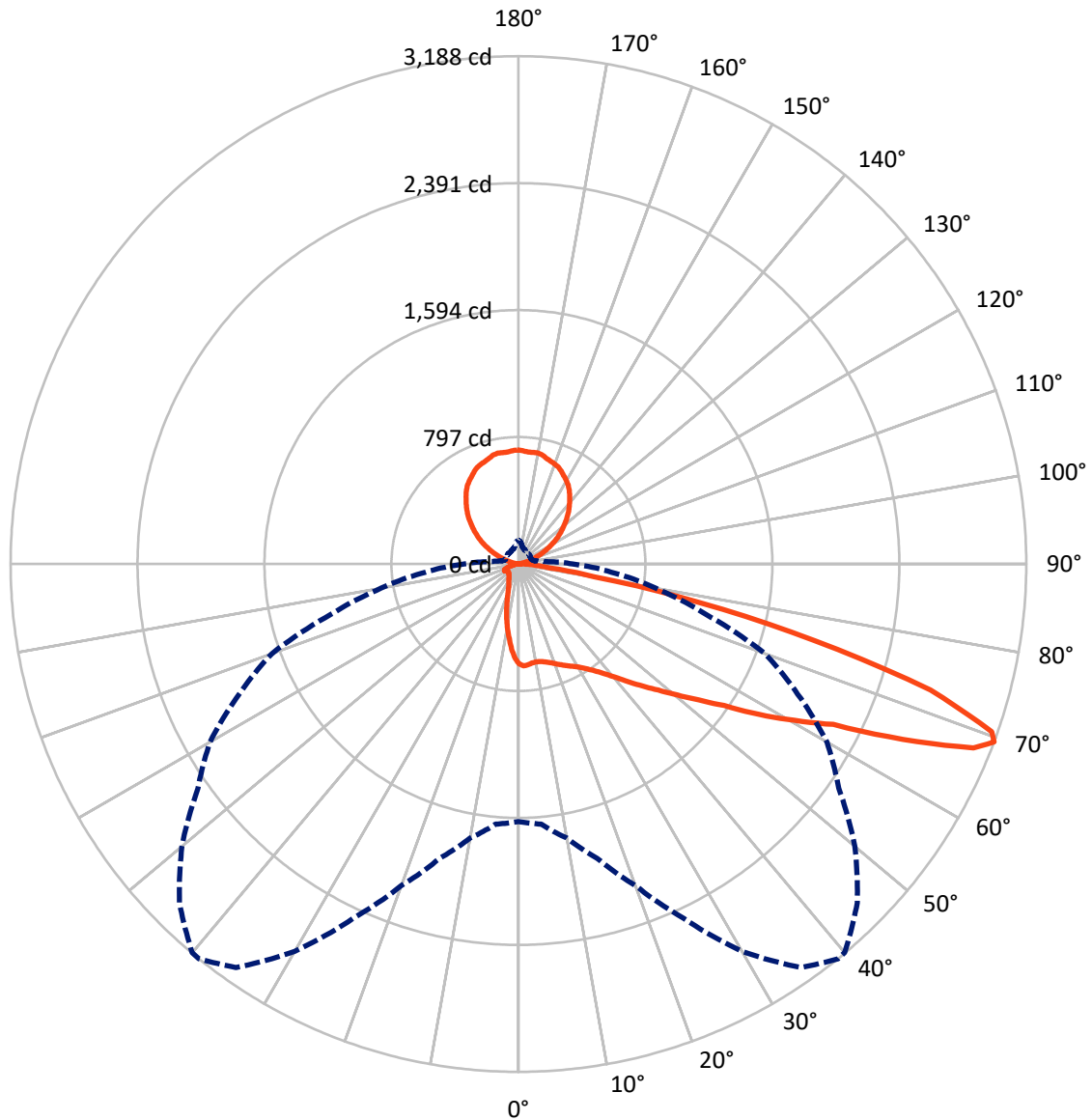
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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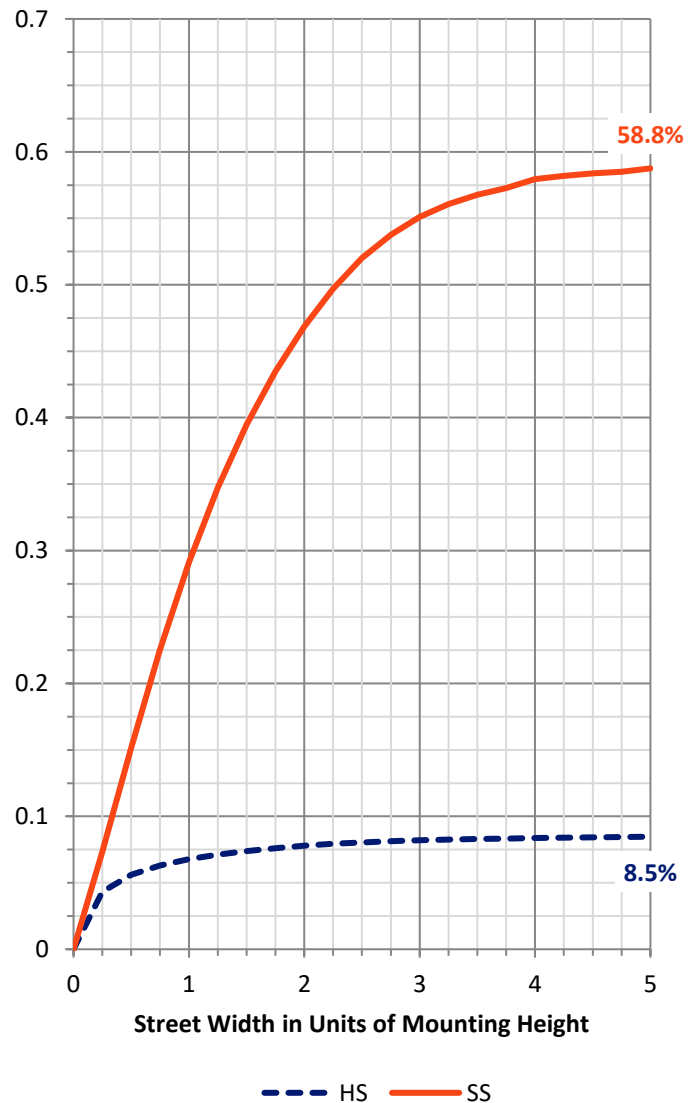
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	474.3	887.6	1361.9
	% Fixture	8.6	16.1	24.7
Street Side	Lumens	3270.4	888.4	4158.8
	% Fixture	59.2	16.1	75.3
Total	Lumens	3744.7	1776.0	5520.7
	% Fixture	67.8	32.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.0
10°-20°	136.5	2.5
20°-30°	212.5	3.8
30°-40°	321.1	5.8
40°-50°	513.9	9.3
50°-60°	807.7	14.6
60°-70°	1087.5	19.7
70°-80°	539.4	9.8
80°-90°	71.9	1.3
90°-100°	10.5	0.2
100°-110°	58.7	1.1
110°-120°	169.9	3.1
120°-130°	279.4	5.1
130°-140°	344.6	6.2
140°-150°	352.5	6.4
150°-160°	297.0	5.4
160°-170°	195.5	3.5
170°-180°	67.8	1.2
0°-90°	3744.7	67.8
0°-180°	5520.7	100.0

Coefficient of Utilization



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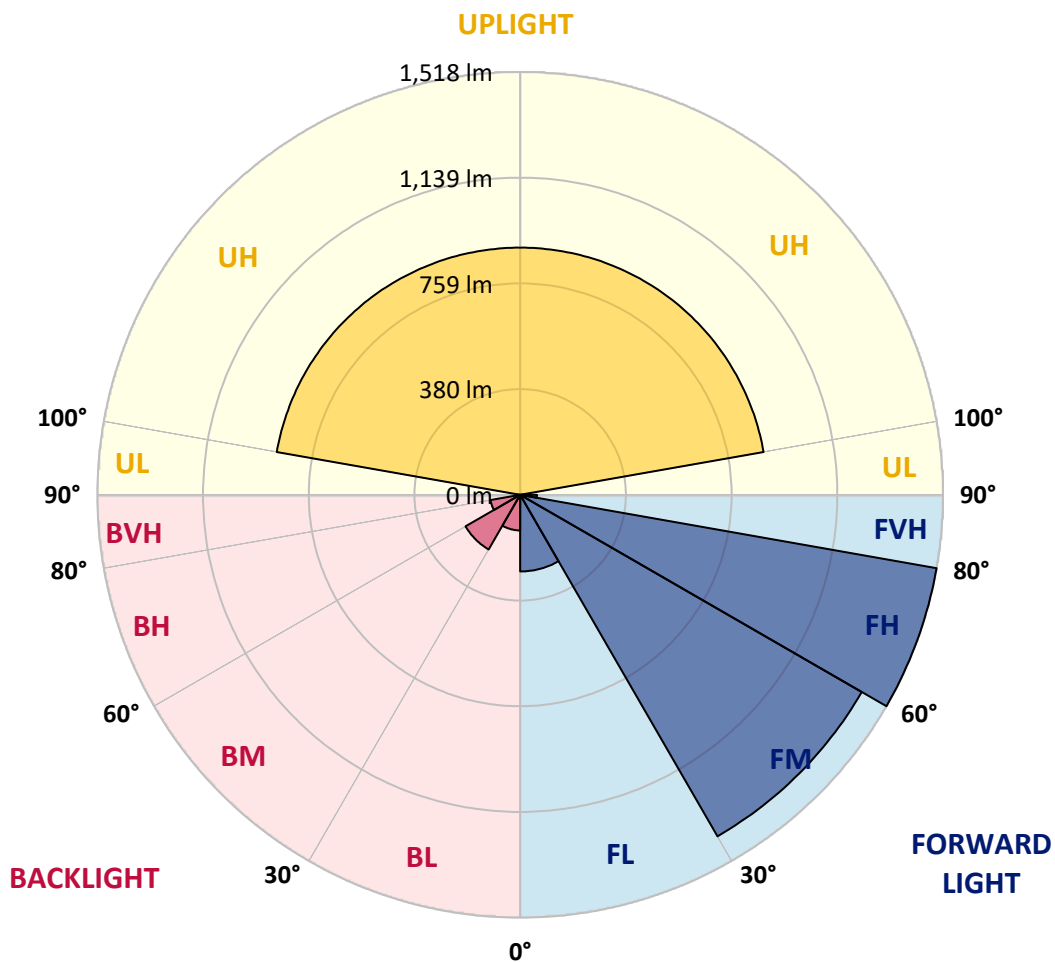
CATALOG NUMBER: ISW-AF-600-LED-E1-SL4-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.3	5.0			
FM	(30°-60°)	1416.3	25.7			
FH	(60°-80°)	1518.5	27.5			G1/1800
FVH	(80°-90°)	60.2	1.1			G1/100
BL	(0°-30°)	127.8	2.3	B1/500		
BM	(30°-60°)	226.4	4.1	B1/1000		
BH	(60°-80°)	108.5	2.0	B0/110		G0/110
BVH	(80°-90°)	11.7	0.2			G1/100
UL	(90°-100°)	10.5	0.2		U2/50	
UH	(100°-180°)	887.6	16.1		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2
2.5°	642.4	643.0	643.0	643.6	641.2	641.2	641.8	639.3	640.6	640.0	636.9
5°	643.6	644.3	643.6	644.3	641.2	640.0	637.5	634.5	635.7	635.2	630.9
7.5°	640.6	641.2	640.0	640.6	636.9	634.5	630.9	628.4	626.6	625.9	620.5
10°	633.9	635.7	633.3	635.2	632.1	629.6	627.8	625.3	624.2	623.6	617.5
12.5°	624.2	625.3	625.9	628.4	628.4	629.0	629.0	627.2	627.8	627.2	622.4
15°	615.0	619.3	623.6	625.9	630.9	633.9	636.3	635.7	637.5	636.9	633.9
17.5°	615.0	618.7	625.9	633.9	643.0	647.2	650.9	650.9	651.5	650.3	645.5
20°	617.5	624.2	636.3	649.7	660.6	669.1	671.6	671.0	668.5	668.5	660.0
22.5°	637.5	641.8	655.2	669.7	685.0	693.5	694.1	692.2	687.3	686.2	675.9
25°	666.1	671.0	683.1	701.9	713.5	720.2	718.3	712.3	707.5	703.2	692.2
27.5°	710.4	714.1	726.3	739.0	745.7	748.2	740.8	732.3	726.9	725.1	710.4
30°	756.1	760.9	770.6	778.6	784.0	776.7	765.2	755.4	750.5	749.3	736.0
32.5°	811.9	812.5	819.3	821.1	821.6	809.6	793.7	784.6	782.8	780.3	770.0
35°	863.0	866.0	864.8	864.2	858.8	843.5	830.2	824.7	822.9	822.2	813.8
37.5°	908.6	913.5	910.4	904.9	898.3	886.1	872.2	866.0	872.2	868.5	870.3
40°	953.0	953.0	949.3	946.2	938.4	926.8	922.0	922.6	932.3	934.8	937.1
42.5°	991.2	990.6	986.9	984.6	983.4	980.9	978.5	990.0	1008.8	1012.5	1017.9
45°	1033.2	1032.6	1018.6	1023.5	1032.0	1033.8	1042.3	1069.1	1092.1	1093.9	1105.5
47.5°	1073.9	1069.1	1055.7	1060.5	1084.8	1097.6	1111.5	1149.3	1181.5	1188.2	1220.4
50°	1116.4	1111.5	1097.0	1106.1	1140.2	1163.8	1196.6	1248.9	1293.3	1302.4	1344.4
52.5°	1160.8	1160.2	1148.7	1162.6	1204.5	1252.6	1304.3	1363.2	1417.3	1428.9	1490.8
55°	1214.2	1211.3	1206.4	1223.4	1283.0	1347.4	1428.2	1508.4	1567.4	1588.0	1650.6
57.5°	1274.5	1273.3	1273.9	1309.1	1380.8	1478.7	1577.7	1685.9	1783.1	1797.7	1856.0
60°	1326.8	1329.1	1343.1	1398.5	1488.4	1620.9	1760.1	1906.5	1992.8	2008.1	2065.1
62.5°	1390.5	1404.5	1435.5	1505.4	1611.1	1771.6	1952.1	2107.1	2218.3	2249.3	2357.5
65°	1543.7	1554.7	1612.4	1696.9	1831.8	2037.2	2244.5	2469.9	2653.4	2681.4	2774.3
67.5°	1655.5	1683.5	1774.0	1912.0	2107.1	2369.7	2654.0	2927.0	3081.9	3094.6	3029.7
69°	1616.7	1639.7	1746.7	1913.2	2148.4	2454.1	2807.8	3092.9	3188.2	3185.9	3009.0
70°	1557.0	1578.3	1696.3	1857.9	2113.7	2444.3	2810.3	3094.1	3151.8	3129.9	2927.6
72.5°	1304.3	1323.1	1433.7	1602.7	1850.6	2178.8	2523.4	2717.3	2705.1	2686.9	2352.6
75°	814.4	813.1	909.8	1007.6	1200.3	1532.2	1788.6	1944.2	1919.3	1905.3	1510.3
77.5°	304.5	325.7	361.0	466.2	554.8	734.2	941.4	1114.6	1162.6	1101.2	813.1
80°	158.7	170.2	193.2	230.4	264.9	303.3	364.7	469.2	485.6	452.8	328.2
82.5°	125.2	139.2	162.2	193.8	218.2	203.6	192.0	198.8	197.5	188.4	167.2
85°	94.8	111.2	148.9	181.1	215.7	182.3	145.3	127.1	113.0	113.6	120.9
87.5°	47.4	61.4	117.3	158.0	187.8	120.9	94.8	73.6	61.4	58.9	79.0
90°	19.7	19.7	29.9	38.2	50.2	29.5	28.8	23.9	19.3	19.2	25.4
92.5°	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2	9.2
100°	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.0	16.9	21.5
102.5°	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	32.9	34.3	40.9
105°	21.5	22.5	25.1	27.6	32.2	36.8	43.0	49.1	55.2	56.8	64.4
107.5°	41.9	43.0	46.5	50.1	54.7	59.3	67.0	74.7	80.8	82.3	90.0



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CATALOG NUMBER: ISW-AF-600-LED-E1-SL4-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	67.5	69.6	72.6	75.7	82.3	89.0	96.7	104.3	109.3	110.5	116.6
112.5°	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	140.8	141.7	146.3
115°	143.2	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.3	174.9	178.0
117.5°	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	207.9	208.2	209.7
120°	230.2	228.1	229.7	231.2	234.8	238.3	240.4	242.4	244.9	245.5	248.6
122.5°	269.0	266.0	266.5	267.0	270.1	273.1	275.2	277.2	279.7	280.3	283.4
125°	304.8	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.0	314.6	317.1
127.5°	337.6	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.2	347.3	347.8
130°	371.3	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.3	379.5	380.5
132.5°	405.1	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.7	413.8	414.3
135°	438.8	435.8	435.8	435.8	438.8	441.9	443.4	445.0	445.8	446.0	447.0
137.5°	470.6	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.3	476.7	478.7
140°	499.2	496.1	497.2	498.2	499.2	500.2	501.2	502.3	504.7	505.3	508.4
142.5°	529.9	526.8	527.8	528.9	529.4	529.9	531.4	533.0	534.6	535.0	537.0
145°	562.6	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.0	563.1	563.6
147.5°	588.2	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.6	587.7	588.2
150°	608.7	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0	624.0
155°	643.4	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.6	643.4	642.4
157.5°	660.8	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.4	660.3	659.8
160°	678.2	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0	670.0
162.5°	688.4	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.0	677.2	678.2
165°	696.6	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4	688.4
167.5°	705.8	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.6	702.3	700.7
170°	714.0	711.0	709.4	707.9	707.9	707.9	708.4	708.9	708.1	707.9	706.9
172.5°	715.0	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8	705.8
175°	716.1	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.4	706.3	705.8
177.5°	723.2	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2
2.5°	634.5	634.5	633.3	632.7	630.9	628.4	626.6	623.6	621.7	618.7	615.0
5°	626.6	624.2	623.0	620.5	616.8	613.9	610.2	605.9	601.1	594.9	588.3
7.5°	616.2	612.6	608.3	607.1	602.9	599.2	594.9	588.9	582.3	571.3	562.8
10°	612.0	608.3	604.7	602.3	596.8	592.6	587.7	579.8	571.3	556.7	540.9
12.5°	616.2	612.6	609.0	604.7	599.9	594.9	588.3	578.6	567.0	548.2	528.8
15°	626.6	623.0	616.8	612.6	605.9	601.7	592.6	581.6	564.6	541.6	516.0
17.5°	638.1	632.7	627.2	620.5	614.5	609.0	599.2	585.2	564.0	536.6	503.8
20°	649.1	643.0	634.5	629.6	623.6	615.6	605.3	588.3	562.8	526.9	491.0
22.5°	661.8	654.0	644.9	639.3	634.5	627.8	615.6	593.8	562.8	521.5	476.5
25°	678.2	667.9	658.8	653.4	650.3	645.5	630.9	606.5	567.0	518.4	464.3
27.5°	697.7	684.4	676.5	672.8	672.2	668.5	654.0	623.6	576.7	518.4	452.8
30°	720.8	709.2	698.9	698.9	706.2	703.8	687.3	649.7	592.0	520.3	444.3
32.5°	753.0	741.4	735.4	741.4	749.3	751.8	732.9	686.8	616.8	528.8	435.8
35°	800.5	793.1	788.9	798.0	813.8	819.9	796.8	742.0	653.4	545.1	430.9
37.5°	863.0	857.5	852.1	867.9	897.6	909.8	876.4	805.9	705.6	572.5	428.5
40°	934.8	935.3	941.4	973.0	1001.6	1027.1	989.4	902.5	777.3	611.4	430.9
42.5°	1019.8	1026.5	1047.2	1090.9	1146.2	1166.3	1129.8	1019.2	866.6	658.2	437.0
45°	1125.6	1143.1	1178.4	1243.5	1310.3	1341.3	1289.6	1166.3	979.1	732.9	454.0
47.5°	1238.0	1276.8	1336.5	1415.5	1493.2	1513.4	1449.5	1299.4	1089.1	799.2	480.2
50°	1382.0	1429.5	1489.0	1583.8	1666.5	1678.7	1594.2	1422.7	1185.1	856.9	505.0
52.5°	1516.3	1580.8	1656.8	1766.7	1850.6	1835.4	1726.0	1532.8	1261.1	896.4	519.0
55°	1699.8	1766.7	1852.5	1948.4	2031.7	1995.3	1845.7	1626.4	1321.9	925.6	523.2
57.5°	1909.5	1960.6	2044.5	2143.0	2197.6	2135.0	1963.7	1717.5	1379.6	926.2	489.9
60°	2115.6	2175.1	2267.6	2364.1	2394.5	2286.4	2045.7	1731.4	1322.5	826.5	392.0
62.5°	2420.7	2480.9	2527.6	2543.5	2488.7	2271.2	1950.3	1583.8	1140.2	652.1	277.7
65°	2761.7	2693.5	2603.0	2517.9	2369.1	2038.4	1681.6	1301.2	884.9	435.8	191.4
67.5°	2851.0	2643.7	2446.8	2257.2	1979.4	1623.3	1268.4	915.2	567.6	248.0	130.0
69°	2758.0	2455.3	2236.0	1935.1	1648.2	1214.9	873.9	586.5	339.1	172.6	108.7
70°	2587.9	2273.0	1975.8	1653.7	1276.8	928.0	581.0	384.1	221.3	125.8	97.9
72.5°	1952.7	1561.3	1203.4	781.5	476.5	264.3	186.0	133.1	105.2	92.4	83.9
75°	1129.2	751.8	492.2	262.6	155.6	115.5	100.9	89.9	83.3	80.2	72.9
77.5°	476.5	297.8	201.7	147.7	104.5	89.3	77.7	71.7	71.1	69.3	62.6
80°	217.0	186.0	158.7	111.2	79.6	68.0	59.5	58.3	59.5	57.7	51.0
82.5°	161.0	158.7	132.5	85.7	60.8	45.6	37.0	38.9	43.8	47.4	41.3
85°	134.3	134.3	111.2	63.8	40.1	29.2	28.5	32.2	36.4	39.5	33.5
87.5°	123.4	118.6	63.8	32.8	23.1	18.8	17.6	15.8	15.8	27.3	23.1
90°	19.3	12.6	11.3	11.7	12.3	11.7	11.9	10.2	10.2	10.2	11.3
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: P227015

CATALOG NUMBER: ISW-AF-600-LED-E1-SL4-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: P227015

CATALOG NUMBER: ISW-AF-600-LED-E1-SL4-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2	627.2
2.5°	612.0	609.6	603.5	602.3	600.5	598.0	597.4	594.3	588.3	587.1	587.7
5°	584.0	574.3	567.6	562.2	557.9	547.0	542.7	537.9	529.4	526.9	523.2
7.5°	551.3	539.7	526.3	516.6	505.0	493.5	484.4	472.8	463.7	458.3	448.6
10°	525.7	509.9	492.2	472.8	457.7	440.0	428.5	415.1	400.5	387.2	377.4
12.5°	506.3	484.4	458.9	435.8	413.9	395.1	374.4	355.6	337.3	319.1	303.3
15°	490.5	463.1	430.9	401.7	375.0	347.0	324.0	297.8	274.7	258.9	238.9
17.5°	473.4	438.2	399.9	365.9	331.2	302.1	272.9	245.5	223.6	203.0	186.6
20°	452.8	410.2	368.9	329.4	289.9	256.5	226.7	200.6	179.3	162.9	150.7
22.5°	429.6	379.8	331.8	288.7	249.2	216.4	188.4	169.0	153.1	144.0	140.3
25°	407.2	350.1	295.9	248.6	209.1	181.1	162.2	145.9	138.0	134.3	134.3
27.5°	386.6	319.7	259.5	213.3	175.0	153.1	138.6	131.9	128.3	128.3	130.0
30°	367.0	289.3	224.8	178.1	147.7	131.2	123.4	120.9	121.5	124.0	126.4
32.5°	344.6	260.1	195.1	153.1	128.3	117.3	111.2	111.8	114.9	119.1	123.4
35°	320.9	229.1	169.0	134.3	114.9	106.4	102.7	103.3	107.6	113.0	117.3
37.5°	299.6	204.2	148.9	119.7	105.2	99.6	96.7	97.3	100.2	107.0	112.4
40°	278.3	182.9	132.5	111.2	99.6	94.2	92.4	91.8	94.2	100.2	107.0
42.5°	260.1	164.7	122.8	105.2	96.1	91.1	88.7	88.7	89.9	94.8	101.5
45°	249.2	153.7	116.1	100.9	93.0	88.7	86.3	85.1	87.0	89.9	96.1
47.5°	249.2	148.3	111.8	97.9	90.5	87.0	83.9	83.3	83.9	87.0	93.0
50°	257.7	149.6	111.2	96.7	89.3	84.5	81.4	81.4	82.7	87.0	91.8
52.5°	264.9	151.9	113.0	97.9	89.3	83.3	79.6	79.0	80.8	85.1	89.3
55°	263.7	151.9	114.9	99.6	91.1	83.9	79.0	78.4	79.6	83.9	88.1
57.5°	235.8	142.8	113.0	100.9	93.6	87.0	82.0	80.2	81.4	85.1	88.7
60°	190.9	127.1	108.2	100.9	97.3	92.4	87.6	86.3	87.0	90.5	94.8
62.5°	149.6	113.0	102.1	100.2	99.0	96.7	94.8	93.6	93.6	96.7	100.2
65°	121.5	102.1	97.3	97.9	99.0	98.4	97.9	97.3	97.3	99.0	102.7
67.5°	101.5	91.8	90.5	92.4	93.6	94.2	94.8	94.2	94.8	96.7	100.9
69°	92.4	86.3	85.1	86.3	88.7	89.3	90.5	89.9	90.5	92.4	96.7
70°	87.0	82.0	80.8	82.7	84.5	85.1	86.3	85.7	86.3	88.1	92.4
72.5°	75.4	69.9	68.0	69.3	71.1	71.1	72.9	73.6	72.3	72.9	76.0
75°	64.4	58.3	55.3	56.0	56.0	56.0	57.1	57.1	56.0	55.3	56.0
77.5°	54.1	47.4	43.8	43.8	43.8	43.2	41.3	41.9	42.6	41.9	42.6
80°	42.6	37.0	33.5	33.5	33.5	32.2	31.6	31.6	32.8	34.1	33.5
82.5°	32.8	27.3	25.6	25.0	25.0	23.7	23.7	25.0	24.3	25.0	26.1
85°	23.7	19.4	17.6	18.2	17.6	16.4	17.0	18.8	18.8	18.2	19.4
87.5°	14.6	12.2	11.6	12.2	10.9	9.1	8.5	9.1	10.3	9.7	10.9
90°	11.0	10.4	10.4	9.4	9.0	8.4	8.4	8.9	10.0	10.0	9.4
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: P227015
 CATALOG NUMBER: ISW-AF-600-LED-E1-SL4-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	60°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	62.5°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	65°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	67.5°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°
												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: P227015
 NUMBER: ISW-AF-600-LED-E1-SL4-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
627.2	627.2	627.2	627.2	627.2
583.5	585.2	577.4	581.0	578.6
519.7	516.6	516.0	514.1	510.6
444.9	442.4	435.2	437.6	432.1
367.6	367.0	353.7	354.4	347.6
296.6	285.6	280.2	272.3	276.5
229.8	220.7	209.1	206.0	210.3
173.2	164.1	158.7	153.7	151.9
143.4	138.0	134.9	133.1	131.9
138.6	137.4	136.8	135.5	134.9
135.5	136.8	136.8	136.8	135.5
132.5	134.9	135.5	134.9	133.7
129.4	131.2	131.2	130.6	128.9
125.2	127.1	127.1	126.4	125.2
120.3	121.5	122.1	122.1	122.8
116.7	117.9	119.1	120.3	122.1
112.4	114.3	114.9	117.3	119.7
107.0	109.4	110.6	112.4	114.9
101.5	104.5	105.2	107.6	110.0
99.0	101.5	101.5	103.3	105.2
96.1	97.3	96.7	97.9	98.4
93.0	94.2	93.6	94.8	95.4
90.5	91.8	93.0	94.2	94.8
91.8	93.6	94.2	96.1	96.7
97.3	99.6	102.1	104.5	106.4
102.7	105.8	111.2	122.1	126.4
105.8	110.0	122.8	141.6	147.1
103.9	109.4	124.6	144.6	151.3
100.2	104.5	120.9	141.6	147.7
95.4	99.6	116.1	138.6	144.0
77.2	79.6	97.9	119.1	122.8
56.6	58.3	72.3	80.8	80.2
43.8	46.2	51.0	51.7	51.0
34.7	35.9	38.3	38.3	38.9
26.7	27.3	28.5	27.3	26.7
20.0	19.4	18.8	18.2	17.6
11.6	11.6	9.7	8.5	7.9
8.9	9.0	8.0	6.3	5.1
5.6	5.1	4.6	4.1	4.1
6.6	6.1	5.6	5.1	5.1
8.2	8.2	7.7	7.2	7.2
9.7	9.2	8.7	8.2	8.2
15.9	13.3	12.3	11.3	11.3
32.2	27.6	25.1	22.5	21.5
54.7	50.1	46.5	43.0	41.9

CANDELA DISTRIBUTION:

	160°
110°	82.3
112.5°	116.1
115°	156.5
117.5°	197.4
120°	234.8
122.5°	270.1
125°	304.3
127.5°	338.6
130°	372.4
132.5°	406.1
135°	438.8
137.5°	470.0
140°	499.2
142.5°	529.4
145°	558.0
147.5°	585.6
150°	606.6
152.5°	622.5
155°	640.4
157.5°	658.3
160°	672.6
162.5°	682.3
165°	691.5
167.5°	700.7
170°	707.9
172.5°	709.9
175°	712.0
177.5°	715.6
180°	716.1

'227015

ISW-AF-600-LED-E1-SL4-ULG

TION (continued):

165°	170°	175°	180°
75.7	72.6	69.6	67.5
108.4	104.9	101.3	101.3
150.4	146.3	142.2	143.2
193.3	190.8	188.2	188.2
231.2	229.7	228.1	230.2
267.0	266.5	266.0	269.0
302.8	301.8	300.7	304.8
336.6	336.6	336.6	337.6
370.3	369.8	369.3	371.3
402.0	402.5	403.0	405.1
435.8	435.8	435.8	438.8
469.5	468.5	467.5	470.6
498.2	497.2	496.1	499.2
528.9	527.8	526.8	529.9
556.5	557.5	558.5	562.6
584.1	584.6	585.1	588.2
606.6	606.1	605.6	608.7
622.0	622.0	622.0	625.0
639.3	639.3	639.3	643.4
657.8	657.8	657.8	660.8
674.1	674.6	675.1	678.2
684.4	684.4	684.4	688.4
691.5	692.5	693.6	696.6
699.7	701.2	702.8	705.8
707.9	709.4	711.0	714.0
711.0	712.0	713.0	715.0
713.0	713.5	714.0	716.1
716.1	718.6	721.2	723.2
716.1	716.1	716.1	716.1

(END OF REPORT)