

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: P227159

Luminaire Tested: **ISW-AF-350-LED-E1-SLL-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227159
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-350-LED-E1-SLL-7030-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3643.4 lumens
Efficiency: N/A
Efficacy: 99.0 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: B0 - U5 - G1

Input Watts (W): 36.79
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

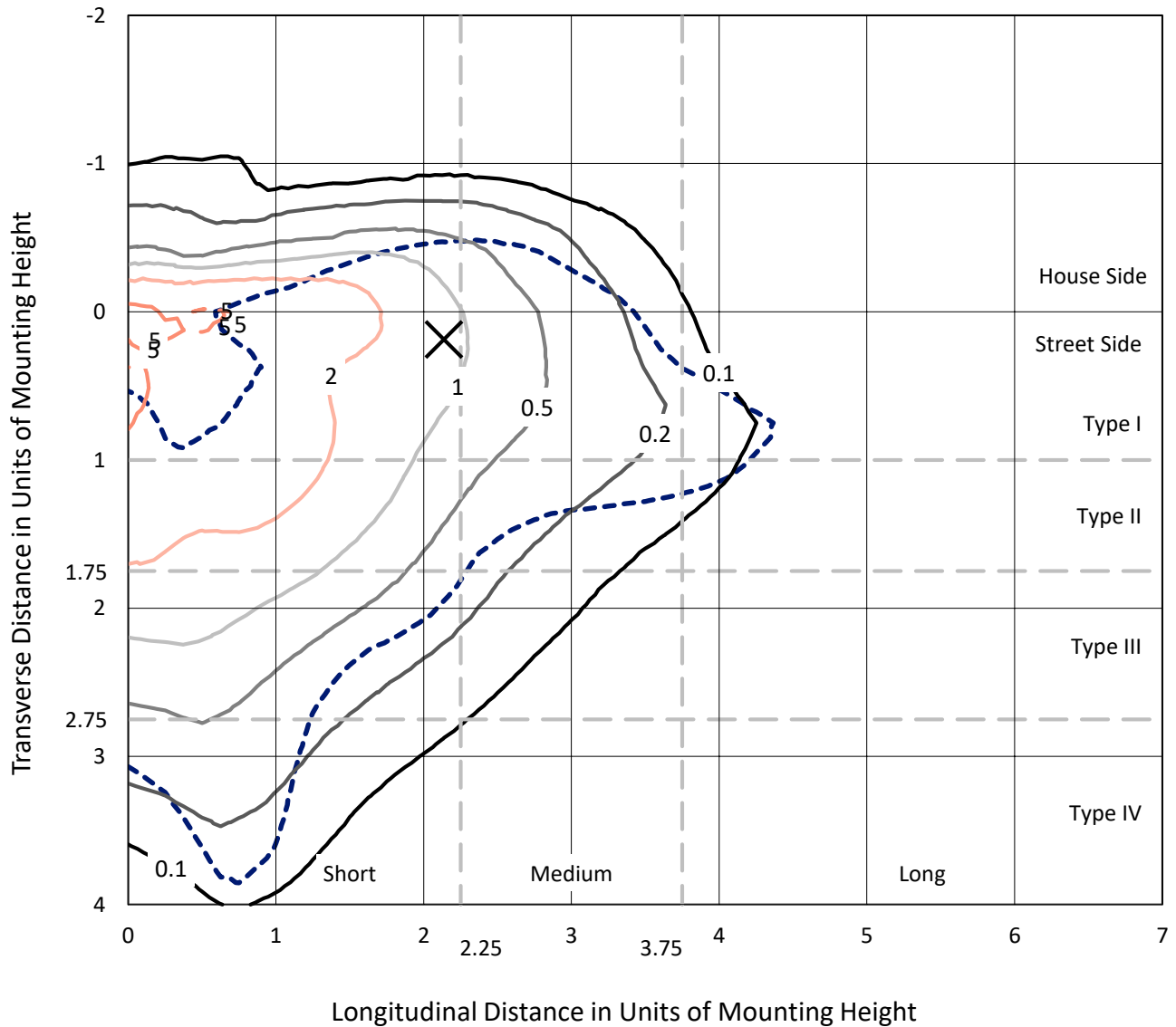


REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

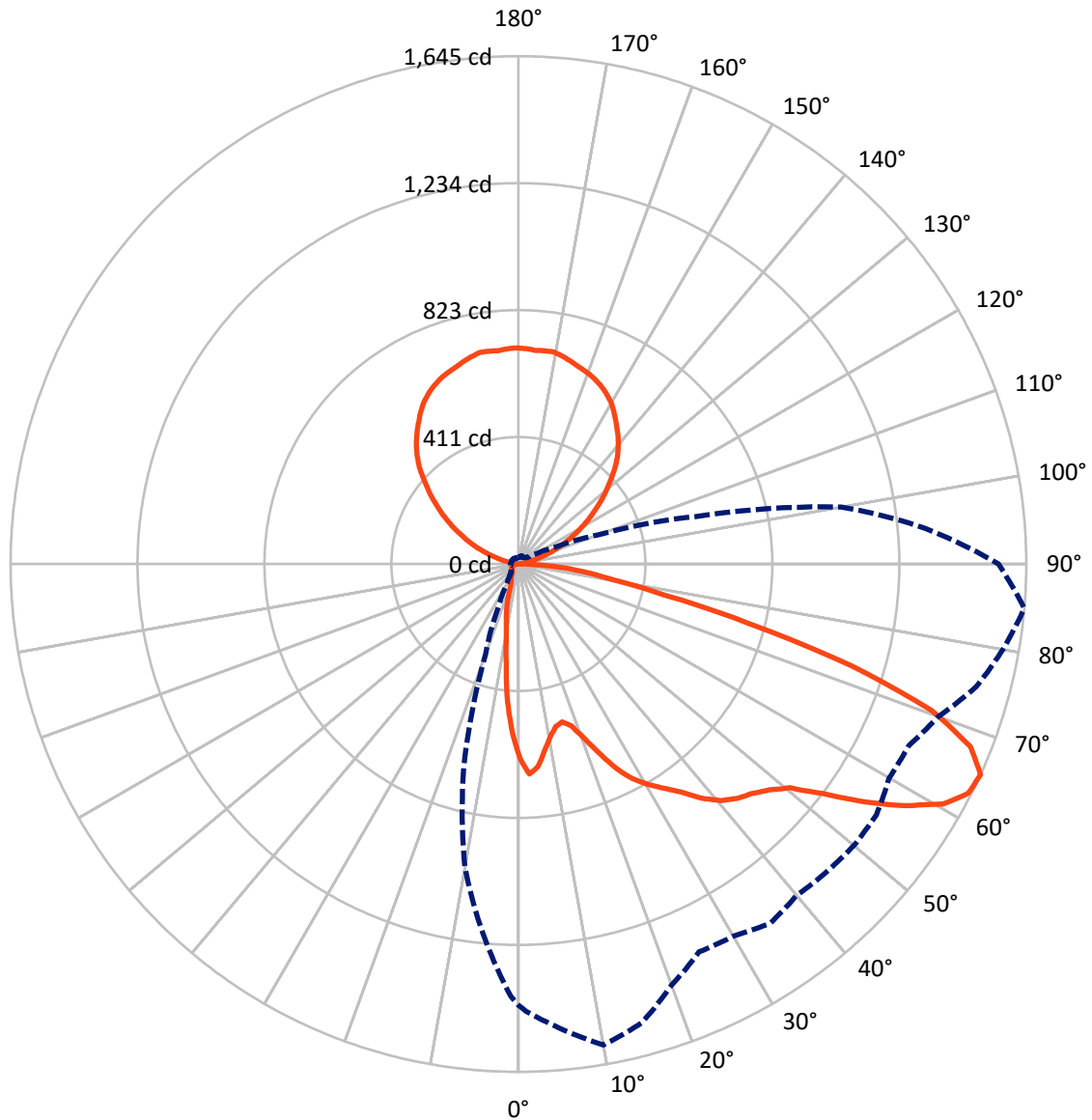
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P227159
CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

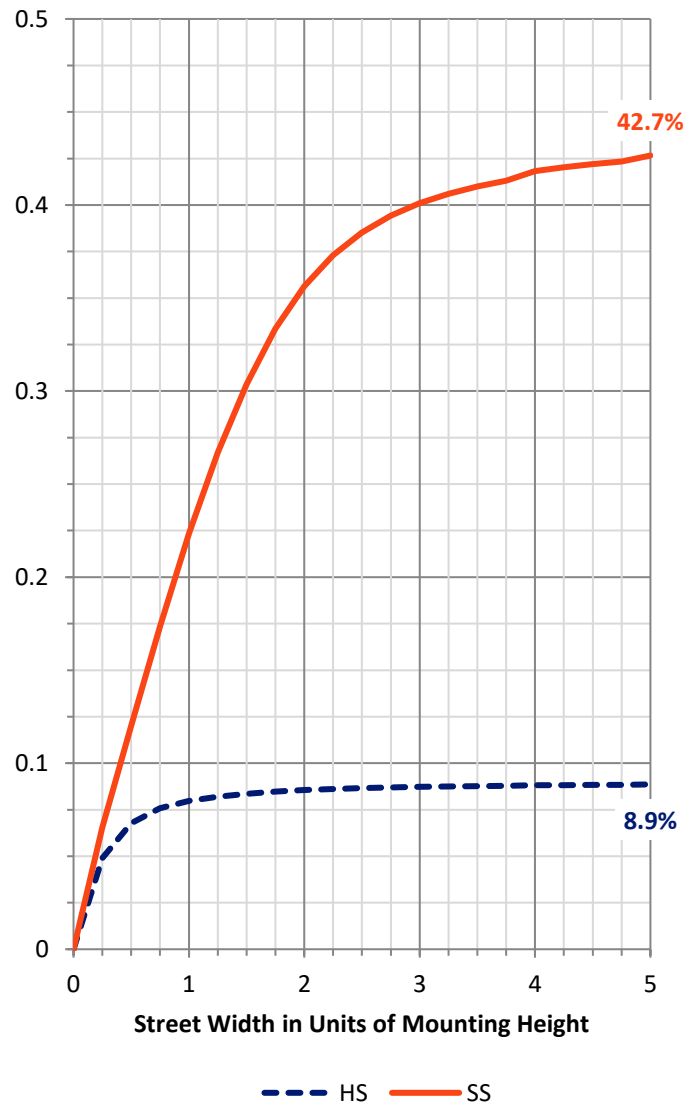
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	327.7	867.6	1195.2
	% Fixture	9.0	23.8	32.8
Street Side	Lumens	1580.5	867.6	2448.1
	% Fixture	43.4	23.8	67.2
Total	Lumens	1908.2	1735.2	3643.4
	% Fixture	52.4	47.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.3
10°-20°	89.8	2.5
20°-30°	128.1	3.5
30°-40°	185.8	5.1
40°-50°	265.8	7.3
50°-60°	408.1	11.2
60°-70°	472.4	13.0
70°-80°	241.0	6.6
80°-90°	70.6	1.9
90°-100°	9.3	0.3
100°-110°	57.4	1.6
110°-120°	166.1	4.6
120°-130°	273.2	7.5
130°-140°	336.8	9.2
140°-150°	344.6	9.5
150°-160°	290.3	8.0
160°-170°	191.2	5.2
170°-180°	66.3	1.8
0°-90°	1908.2	52.4
0°-180°	3643.4	100.0



REPORT NUMBER: P227159

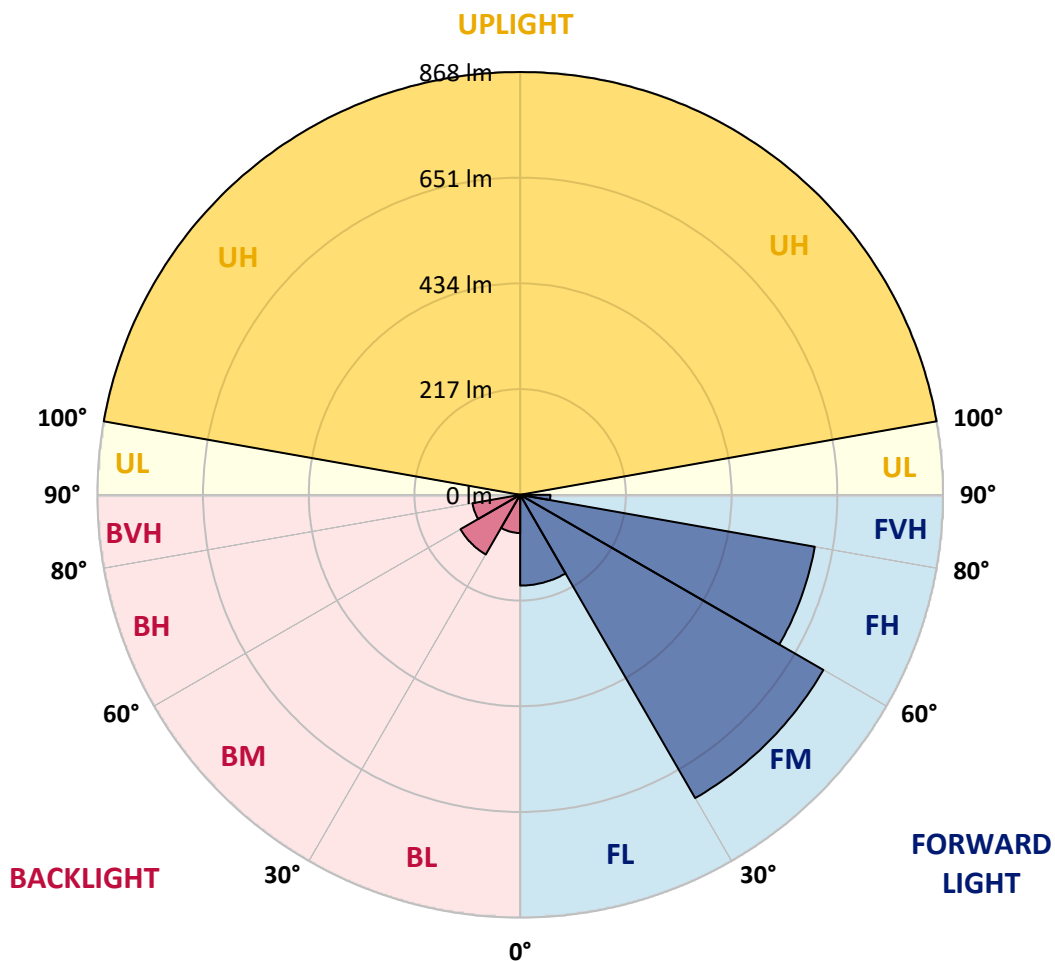
CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.3	5.1			
FM	(30°-60°)	718.4	19.7			
FH	(60°-80°)	613.8	16.8			G0/660
FVH	(80°-90°)	62.0	1.7			G1/100
BL	(0°-30°)	78.3	2.1	B0/110		
BM	(30°-60°)	141.3	3.9	B0/220		
BH	(60°-80°)	99.5	2.7	B0/110		G0/110
BVH	(80°-90°)	8.6	0.2			G0/10
UL	(90°-100°)	9.3	0.3		U1/10	
UH	(100°-180°)	867.6	23.8		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	652.2	652.9	661.8	670.5	681.4	679.8	688.8	695.5	701.6	702.6	707.1
5°	612.4	618.8	639.1	656.4	678.2	695.2	713.5	728.0	738.6	748.5	749.8
7.5°	556.6	561.4	584.8	612.1	643.5	666.0	693.6	717.7	734.7	750.8	754.3
10°	508.7	513.2	539.2	574.5	602.1	631.3	659.9	679.5	701.6	715.4	722.2
12.5°	485.6	491.1	515.8	547.9	576.1	604.4	625.9	642.9	655.4	658.0	659.9
15°	494.6	497.5	524.8	553.4	575.8	589.9	595.7	606.0	605.0	610.2	611.1
17.5°	530.9	529.6	558.5	578.4	589.3	587.7	578.7	573.3	563.6	560.7	569.1
20°	593.2	597.6	616.3	628.5	617.2	591.2	566.5	549.5	536.0	531.5	530.6
22.5°	666.0	671.8	692.0	685.6	657.0	609.5	564.6	537.3	520.6	515.8	513.9
25°	742.4	746.3	756.5	734.7	694.6	633.0	578.1	539.9	517.7	510.7	509.7
27.5°	804.0	807.9	803.1	778.0	719.9	659.3	596.7	551.4	522.5	515.5	512.3
30°	854.4	856.4	840.3	809.2	751.4	688.5	621.1	571.6	537.9	521.9	519.7
32.5°	910.9	909.6	878.5	835.5	778.0	714.8	649.0	594.4	552.7	533.1	529.6
35°	972.9	961.6	906.7	861.5	796.3	735.0	674.4	618.5	576.5	550.5	546.0
37.5°	1028.1	1016.5	943.0	882.0	814.6	750.8	694.3	649.6	612.7	589.0	587.1
40°	1071.1	1057.0	970.6	895.8	823.6	762.3	717.7	688.8	664.4	645.2	645.2
42.5°	1105.7	1090.3	997.6	911.9	831.6	780.0	756.8	746.9	741.8	731.2	735.0
45°	1139.1	1123.4	1019.7	922.1	849.6	814.3	817.5	826.2	841.6	835.5	840.9
47.5°	1170.9	1155.5	1044.8	938.5	884.3	875.9	892.6	927.3	957.5	981.2	997.9
50°	1224.2	1205.9	1089.7	986.7	938.8	943.0	991.2	1059.2	1108.3	1130.1	1128.9
52.5°	1325.3	1299.3	1186.3	1076.5	1016.8	1039.9	1096.8	1182.5	1246.7	1263.7	1270.4
55°	1448.9	1428.3	1325.9	1195.6	1152.3	1160.3	1230.9	1327.9	1377.3	1394.9	1400.7
57.5°	1521.4	1515.9	1451.8	1323.0	1281.0	1277.8	1369.9	1449.2	1491.9	1508.6	1503.4
59°	1538.4	1540.0	1503.4	1413.2	1355.5	1348.4	1442.1	1515.6	1551.3	1556.4	1553.8
60°	1536.8	1545.8	1541.3	1462.7	1402.6	1393.7	1472.6	1542.6	1572.4	1580.5	1571.5
62.5°	1503.7	1519.2	1561.8	1553.5	1509.5	1463.6	1500.9	1551.6	1570.8	1563.1	1556.4
65°	1428.6	1448.9	1508.2	1582.1	1539.7	1451.1	1386.0	1391.7	1420.9	1401.7	1411.0
67.5°	1299.0	1322.1	1353.5	1521.1	1459.5	1310.8	1198.8	1143.9	1130.1	1148.8	1178.3
70°	1056.6	1071.7	1151.3	1388.2	1281.6	1077.5	936.9	863.7	839.3	882.3	912.5
72.5°	745.3	767.8	872.7	1148.8	1054.4	863.1	709.0	641.6	617.2	619.2	645.5
75°	453.5	484.0	609.8	908.3	831.0	661.2	540.2	491.7	484.3	480.2	475.7
77.5°	299.1	310.7	400.9	626.9	560.4	470.2	405.4	425.3	447.4	452.2	458.0
80°	202.9	206.4	260.0	439.7	369.1	347.3	327.7	374.6	416.6	424.3	420.2
82.5°	124.9	135.4	181.3	296.6	294.3	284.1	259.0	295.6	323.5	328.4	337.0
85°	43.3	45.3	111.4	261.9	299.1	302.4	213.4	168.5	189.4	185.8	133.5
87.5°	18.6	20.9	34.7	175.3	202.5	167.5	97.6	86.7	66.8	37.6	36.3
90°	6.3	6.3	6.0	7.6	11.8	10.7	10.9	9.0	8.0	7.5	7.0
92.5°	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	16.5	21.0
102.5°	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	33.5	40.0
105°	21.0	21.2	22.0	24.5	27.0	31.5	36.0	42.0	48.0	55.5	63.0
107.5°	41.0	41.2	42.0	45.5	49.0	53.5	58.0	65.5	73.0	80.5	88.0



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	706.1	702.0	704.5	701.0	695.2	691.4	686.9	681.1	674.4	665.4	656.4
5°	746.9	743.7	735.7	724.1	708.1	694.6	678.5	659.6	643.9	623.6	604.7
7.5°	750.4	745.3	730.5	709.0	684.3	659.3	640.3	609.5	589.6	557.5	536.0
10°	718.3	718.7	703.9	683.7	658.0	628.5	601.2	567.5	538.3	505.5	469.6
12.5°	671.2	675.6	676.3	658.3	633.3	602.1	571.6	539.6	503.3	468.3	435.2
15°	617.5	630.4	631.3	626.9	613.7	587.4	559.5	530.6	493.7	455.5	418.2
17.5°	569.7	581.9	593.2	603.4	604.1	591.5	574.5	549.8	512.9	468.0	424.3
20°	533.5	546.6	565.9	584.8	605.7	612.1	613.4	597.6	558.2	503.3	444.2
22.5°	518.4	533.8	553.4	589.0	625.9	648.7	661.5	661.5	620.1	555.9	477.0
25°	515.2	527.7	557.5	601.8	651.2	691.1	715.4	731.8	702.0	623.6	517.4
27.5°	517.4	534.4	571.3	616.6	668.3	719.3	759.4	788.0	760.1	669.9	555.0
30°	526.4	551.7	589.9	636.8	690.1	744.0	792.5	828.7	808.2	711.9	590.6
32.5°	542.1	572.9	616.3	658.6	711.6	770.0	817.8	865.7	850.6	741.1	609.5
35°	565.6	601.8	641.3	684.0	734.7	793.1	844.2	906.7	901.3	777.7	628.5
37.5°	603.4	640.7	676.9	713.5	761.7	818.5	882.0	961.9	957.5	832.0	659.0
40°	670.2	692.0	719.0	742.4	787.7	841.9	910.0	1007.5	1023.6	878.5	685.9
42.5°	753.0	765.8	773.5	780.0	803.1	854.1	930.2	1038.0	1064.3	913.2	706.8
45°	858.6	854.7	839.3	824.6	822.0	861.2	939.5	1060.5	1096.4	946.9	728.0
47.5°	983.5	975.1	933.1	884.6	857.6	874.0	955.9	1093.5	1135.9	991.2	754.3
50°	1127.6	1108.0	1039.3	957.5	907.7	910.3	997.3	1139.4	1187.9	1048.9	803.4
52.5°	1261.1	1226.1	1144.3	1036.1	964.8	973.5	1071.7	1234.5	1294.5	1144.6	885.9
55°	1378.9	1334.0	1245.7	1127.2	1062.7	1077.8	1190.8	1360.3	1417.1	1258.5	969.3
57.5°	1479.0	1431.2	1344.2	1239.9	1159.7	1172.2	1297.0	1477.1	1515.3	1360.9	1049.3
59°	1524.6	1477.4	1397.2	1300.9	1225.8	1252.1	1372.2	1535.2	1551.6	1400.4	1079.7
60°	1546.8	1499.6	1429.0	1334.9	1266.2	1300.9	1412.0	1579.2	1565.1	1406.2	1091.3
62.5°	1545.2	1512.1	1465.6	1401.4	1388.8	1446.6	1541.3	1635.7	1574.4	1389.5	1098.7
65°	1418.4	1415.5	1386.6	1394.0	1446.3	1535.5	1593.6	1645.0	1555.1	1323.0	1063.1
67.5°	1183.1	1195.0	1198.8	1244.1	1366.4	1517.9	1568.9	1578.9	1471.3	1180.9	952.3
70°	913.5	887.2	930.5	1010.4	1186.6	1381.8	1454.3	1419.7	1299.9	988.9	777.7
72.5°	646.8	654.5	716.7	820.4	999.8	1202.0	1315.7	1126.6	978.0	740.2	551.4
75°	486.6	522.9	553.0	643.9	812.1	1029.7	1123.4	774.5	637.1	510.3	360.8
77.5°	466.4	463.5	440.4	459.6	585.5	721.2	801.5	483.4	399.0	333.8	217.9
80°	431.1	406.3	364.3	345.7	368.8	463.2	508.7	310.7	265.4	233.3	122.9
82.5°	334.5	317.8	273.5	272.2	307.5	329.0	349.9	220.2	199.6	189.1	75.4
85°	212.2	217.9	223.4	272.5	341.2	345.0	272.2	134.2	105.3	148.3	48.1
87.5°	62.9	102.4	124.2	210.9	307.5	308.5	204.8	44.0	39.5	46.2	27.9
90°	7.0	7.0	8.0	9.0	9.0	9.0	8.3	7.0	7.0	7.0	8.0
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	647.1	645.8	636.8	621.7	623.0	615.9	607.0	592.5	589.6	581.6	580.3
5°	588.7	573.6	554.0	530.2	521.3	509.1	496.5	487.6	476.3	466.0	479.9
7.5°	510.7	488.5	465.7	440.7	426.2	406.3	395.8	375.2	360.1	357.2	345.4
10°	445.5	417.6	391.6	369.1	342.2	323.5	310.1	298.8	288.6	276.0	268.3
12.5°	402.2	370.7	343.1	315.2	302.4	286.9	278.6	268.0	253.2	242.7	232.4
15°	382.6	348.6	318.4	294.0	275.4	260.9	246.2	233.3	217.3	205.4	193.5
17.5°	380.0	335.7	297.5	270.3	250.0	234.3	214.7	197.7	178.1	165.0	155.0
20°	382.9	326.1	278.3	242.7	222.1	194.5	176.2	155.3	136.1	118.8	103.0
22.5°	394.5	321.0	259.3	220.2	189.7	158.2	138.7	112.0	95.6	79.0	72.9
25°	410.2	317.8	243.0	195.5	157.0	125.8	99.2	77.0	69.7	65.5	63.2
27.5°	426.9	312.0	224.7	172.7	130.6	92.8	74.1	64.8	61.9	59.7	58.1
30°	439.4	300.7	202.2	148.3	104.0	79.3	66.1	60.0	58.1	55.5	53.9
32.5°	444.9	283.4	182.0	125.2	87.6	68.0	57.8	54.2	52.3	50.1	49.1
35°	443.9	263.8	171.7	116.2	80.2	60.3	50.7	48.5	45.9	43.7	41.4
37.5°	444.9	245.9	163.7	113.9	77.0	54.6	46.2	44.6	42.7	40.4	38.5
40°	448.7	235.9	159.8	109.1	74.5	52.3	42.7	41.1	40.8	38.2	36.6
42.5°	450.3	236.9	157.9	102.4	68.0	51.7	42.7	39.2	39.2	37.2	35.3
45°	448.4	243.9	159.2	98.5	63.2	48.5	44.9	39.2	38.2	36.6	34.7
47.5°	454.2	249.1	159.2	97.9	60.0	45.3	42.7	43.0	38.8	36.9	34.0
50°	477.9	253.9	156.0	96.9	59.1	42.0	40.4	42.4	43.7	37.6	34.3
52.5°	520.0	260.0	152.5	95.3	57.8	39.5	37.6	39.8	44.6	39.5	34.3
55°	563.0	270.9	150.2	92.8	55.8	37.9	34.0	38.2	40.8	39.2	34.0
57.5°	608.9	282.8	148.0	86.7	51.4	36.3	32.7	33.4	36.6	37.9	33.1
59°	622.7	288.6	146.0	82.2	47.5	35.0	31.8	30.8	32.7	36.3	32.4
60°	632.6	288.9	143.8	78.3	45.3	34.3	31.1	29.9	30.5	37.2	32.7
62.5°	633.6	288.6	136.7	70.3	40.8	33.1	30.2	28.6	27.9	31.1	33.4
65°	593.8	275.1	123.9	66.1	41.1	31.8	28.6	27.3	26.0	26.6	28.9
67.5°	519.3	240.4	110.4	67.1	43.3	30.8	27.3	26.0	25.0	24.4	25.4
70°	392.9	199.6	106.6	69.3	45.3	30.2	25.4	24.1	23.4	23.1	23.1
72.5°	272.2	164.3	102.4	70.9	46.9	29.9	23.4	22.1	21.8	21.5	21.5
75°	175.3	119.4	84.7	60.3	42.7	27.3	21.2	19.9	19.6	19.3	19.6
77.5°	103.7	83.5	62.3	42.4	31.1	21.8	18.3	17.3	17.3	17.3	17.7
80°	57.5	49.4	41.4	27.3	22.1	16.4	15.1	14.1	14.1	14.4	15.1
82.5°	34.3	27.3	23.4	17.3	15.1	11.6	11.2	10.6	10.9	11.2	11.9
85°	22.5	17.3	14.1	11.6	10.3	7.4	6.4	6.7	7.1	7.7	8.0
87.5°	12.5	9.6	7.7	6.7	6.1	3.2	2.6	2.6	3.2	3.9	4.5
90°	9.0	9.0	9.0	8.0	7.0	7.0	7.0	7.5	8.0	8.0	8.0
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



REPORT NUMBER: P227159
 CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	59°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	60°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	62.5°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	65°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P227159
 NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	110°	80.5
584.8	575.5	565.6	558.2	561.4	550.8	551.7	548.9	547.6	546.9	540.2	112.5°	113.5
463.2	466.7	451.9	453.5	458.0	447.1	439.7	451.9	450.3	439.4	445.5	115°	153.0
333.8	334.8	328.0	312.9	312.9	321.0	323.9	329.6	333.5	347.0	338.6	117.5°	193.0
255.2	246.2	239.4	232.7	228.9	220.8	222.8	229.8	234.3	242.0	248.1	120°	229.5
221.8	211.8	200.0	189.7	184.2	176.9	172.0	170.4	172.0	167.2	167.5	122.5°	264.0
184.2	175.3	162.1	156.6	146.4	140.6	137.4	133.2	130.0	123.3	120.4	125°	297.5
142.8	131.0	117.5	117.5	110.1	105.3	104.0	103.0	101.1	97.6	94.0	127.5°	331.0
95.0	87.3	79.6	75.7	76.4	75.7	73.8	77.0	77.0	78.3	77.7	130°	364.0
69.3	68.0	65.2	62.9	61.6	61.3	61.6	62.6	64.5	66.1	67.7	132.5°	397.0
62.3	61.6	59.1	56.8	56.5	55.8	55.8	56.8	57.1	57.5	57.1	135°	429.0
57.8	56.5	54.2	52.6	52.0	51.7	52.0	51.0	50.4	50.7	50.4	137.5°	459.5
52.3	51.4	49.1	47.8	47.5	47.5	46.5	46.2	45.6	45.9	45.6	140°	488.0
48.1	46.9	44.6	43.0	43.0	42.7	43.0	42.7	42.4	42.0	42.0	142.5°	517.5
40.4	40.1	37.9	37.2	37.6	38.5	38.5	38.5	38.8	38.5	38.5	145°	545.5
37.6	37.2	35.0	33.4	33.1	33.1	33.1	33.7	34.7	35.0	35.6	147.5°	572.5
35.6	35.3	33.1	31.8	31.1	30.8	30.5	30.5	30.8	32.1	33.1	150°	593.0
34.3	33.7	31.5	29.9	29.5	29.2	28.9	28.9	28.9	29.2	30.2	152.5°	608.5
33.7	32.7	30.2	28.6	27.9	27.6	27.6	27.9	27.6	27.6	27.6	155°	626.0
32.7	32.1	29.5	27.6	27.0	27.0	26.6	26.6	26.6	26.0	26.0	157.5°	643.5
32.4	31.5	28.9	27.0	26.3	26.0	25.7	26.0	25.4	25.0	24.7	160°	657.5
31.8	30.5	27.6	26.0	25.7	25.0	24.7	24.7	24.7	24.1	24.1	162.5°	667.0
31.5	29.9	27.0	25.4	24.7	24.1	23.8	23.8	24.4	23.8	23.8	165°	676.0
31.1	28.9	26.0	24.1	23.8	23.1	22.8	23.1	24.1	23.4	23.1	167.5°	685.0
29.9	28.2	25.4	23.8	23.1	22.5	22.1	22.5	23.1	23.1	23.1	170°	692.0
29.2	27.6	24.7	23.1	22.8	22.1	21.8	21.8	22.8	22.8	22.5	172.5°	694.0
28.2	27.0	24.1	22.1	21.5	21.5	21.2	21.2	21.5	21.5	21.8	175°	696.0
27.0	26.3	23.4	21.2	20.9	20.5	20.5	20.5	20.5	21.2	21.2	177.5°	699.5
25.7	25.4	22.5	20.5	19.9	19.9	19.9	19.9	19.9	20.2	20.5	180°	700.0
23.8	23.8	21.2	19.3	18.9	18.6	18.6	18.6	18.6	18.9	19.3		
21.8	22.1	19.6	17.7	17.3	17.3	17.3	17.3	17.7	17.7	18.0		
19.9	20.2	17.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	16.4		
18.0	18.0	15.1	13.2	13.5	13.8	14.1	13.8	13.8	14.1	15.1		
15.4	15.1	12.5	10.9	10.9	11.6	11.9	11.6	11.9	11.9	13.2		
12.2	12.2	9.6	8.0	8.0	9.3	9.3	9.3	9.6	10.0	10.9		
9.3	9.0	6.7	5.5	5.5	6.4	6.7	7.1	7.4	7.7	8.3		
5.5	5.5	3.5	2.2	2.6	2.9	3.9	3.9	3.9	4.5	5.5		
7.5	7.3	6.0	5.0	5.0	5.0	6.0	7.0	7.5	8.0	8.0		
5.5	5.0	4.5	4.0	4.0	4.0	4.5	5.0	5.5	6.0	6.0		
6.5	6.0	5.5	5.0	5.0	5.0	5.5	6.0	6.5	7.0	7.0		
8.0	8.0	7.5	7.0	7.0	7.0	7.5	8.0	8.0	8.0	8.5		
9.5	9.0	8.5	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0		
15.5	13.0	12.0	11.0	11.0	11.0	12.0	13.0	15.5	18.0	22.5		
31.5	27.0	24.5	22.0	21.0	22.0	24.5	27.0	31.5	36.0	42.0		
53.5	49.0	45.5	42.0	41.0	42.0	45.5	49.0	53.5	58.0	65.5		

'227159
 ISW-AF-350-LED-E1-SLL-7030-ULG

REPORT NUMBER: P227159
 CATALOG NUMBER: ISW-AF-3!

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
74.0	71.0	68.0	66.0	68.0	71.0	74.0	80.5	87.0	94.5	0°	630.1	630.1
106.0	102.5	99.0	99.0	99.0	102.5	106.0	113.5	121.0	127.5	2.5°	546.0	545.7
147.0	143.0	139.0	140.0	139.0	143.0	147.0	153.0	159.0	163.5	5°	448.1	445.2
189.0	186.5	184.0	184.0	184.0	186.5	189.0	193.0	197.0	199.5	7.5°	347.3	357.9
226.0	224.5	223.0	225.0	223.0	224.5	226.0	229.5	233.0	235.0	10°	250.4	257.7
261.0	260.5	260.0	263.0	260.0	260.5	261.0	264.0	267.0	269.0	12.5°	174.3	178.1
296.0	295.0	294.0	298.0	294.0	295.0	296.0	297.5	299.0	302.0	15°	120.0	127.7
329.0	329.0	329.0	330.0	329.0	329.0	329.0	331.0	333.0	336.0	17.5°	93.4	94.4
362.0	361.5	361.0	363.0	361.0	361.5	362.0	364.0	366.0	368.0	20°	77.0	77.7
393.0	393.5	394.0	396.0	394.0	393.5	393.0	397.0	401.0	402.5	22.5°	68.4	69.7
426.0	426.0	426.0	429.0	426.0	426.0	426.0	429.0	432.0	433.5	25°	57.5	58.7
459.0	458.0	457.0	460.0	457.0	458.0	459.0	459.5	460.0	462.0	27.5°	50.7	52.0
487.0	486.0	485.0	488.0	485.0	486.0	487.0	488.0	489.0	490.0	30°	46.5	47.2
517.0	516.0	515.0	518.0	515.0	516.0	517.0	517.5	518.0	519.5	32.5°	42.4	42.4
544.0	545.0	546.0	550.0	546.0	545.0	544.0	545.5	547.0	548.5	35°	38.8	39.2
571.0	571.5	572.0	575.0	572.0	571.5	571.0	572.5	574.0	574.0	37.5°	36.3	36.9
593.0	592.5	592.0	595.0	592.0	592.5	593.0	593.0	593.0	593.0	40°	34.0	34.3
608.0	608.0	608.0	611.0	608.0	608.0	608.0	608.5	609.0	609.5	42.5°	30.8	31.5
625.0	625.0	625.0	629.0	625.0	625.0	625.0	626.0	627.0	628.5	45°	27.9	28.2
643.0	643.0	643.0	646.0	643.0	643.0	643.0	643.5	644.0	645.0	47.5°	26.0	26.0
659.0	659.5	660.0	663.0	660.0	659.5	659.0	657.5	656.0	655.5	50°	24.7	25.0
669.0	669.0	669.0	673.0	669.0	669.0	669.0	667.0	665.0	663.0	52.5°	24.1	24.4
676.0	677.0	678.0	681.0	678.0	677.0	676.0	676.0	676.0	674.5	55°	23.8	24.4
684.0	685.5	687.0	690.0	687.0	685.5	684.0	685.0	686.0	687.0	57.5°	23.8	24.1
692.0	693.5	695.0	698.0	695.0	693.5	692.0	692.0	692.0	692.5	59°	23.4	23.8
695.0	696.0	697.0	699.0	697.0	696.0	695.0	694.0	693.0	691.5	60°	23.4	24.1
697.0	697.5	698.0	700.0	698.0	697.5	697.0	696.0	695.0	693.0	62.5°	22.5	23.1
700.0	702.5	705.0	707.0	705.0	702.5	700.0	699.5	699.0	698.0	65°	21.8	22.5
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	20.9	21.8
										70°	19.9	20.9
										72.5°	18.6	19.9
										75°	17.3	18.3
										77.5°	15.7	16.7
										80°	13.8	14.1
										82.5°	11.6	11.6
										85°	8.7	7.7
										87.5°	4.8	5.1
										90°	8.0	7.5
										92.5°	6.0	6.0
										95°	7.0	7.0
										97.5°	9.0	9.0
										100°	12.0	16.5
										102.5°	27.0	33.5
										105°	48.0	55.5
										107.5°	73.0	80.5

REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-

50-LED-E1-SLL-7030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	110°	102.0	108.0	114.0
538.9	538.9	548.5	549.5	538.3	541.2	546.6	540.2	547.3	112.5°	134.0	138.5	143.0
452.2	448.4	448.7	446.1	450.6	445.5	451.0	449.0	447.4	115°	168.0	171.0	174.0
351.1	357.9	353.1	343.8	351.1	345.4	334.5	335.4	323.2	117.5°	202.0	203.5	205.0
263.8	259.0	256.5	252.0	240.1	242.3	230.1	232.1	236.2	120°	237.0	240.0	243.0
182.0	178.5	182.6	179.7	174.9	175.9	178.5	181.0	187.8	122.5°	271.0	274.0	277.0
127.7	126.1	125.2	127.1	132.6	135.4	139.6	147.3	151.2	125°	305.0	307.5	310.0
96.0	96.3	95.3	98.2	102.7	105.0	105.9	106.6	111.1	127.5°	339.0	339.5	340.0
79.3	80.6	80.2	81.2	79.9	78.6	79.6	77.7	76.1	130°	370.0	371.0	372.0
69.3	69.7	68.0	67.7	65.8	64.2	62.9	62.9	62.3	132.5°	404.0	404.5	405.0
58.7	59.1	57.5	57.5	57.1	58.1	57.5	56.2	55.8	135°	435.0	436.0	437.0
52.6	52.0	51.0	51.0	50.4	50.4	50.7	51.0	50.7	137.5°	464.0	466.0	468.0
47.2	46.5	46.2	46.5	46.2	46.5	46.9	46.5	46.9	140°	491.0	494.0	497.0
43.3	42.7	42.7	43.0	42.7	43.0	43.0	43.0	42.7	142.5°	521.0	523.0	525.0
40.1	39.5	39.5	39.5	39.2	38.5	37.9	36.9	35.9	145°	550.0	550.5	551.0
37.6	37.2	36.6	36.3	35.3	33.4	32.7	32.7	32.7	147.5°	574.0	574.5	575.0
35.3	34.7	34.3	33.1	31.8	31.1	31.1	31.1	31.1	150°	593.0	593.0	593.0
32.4	31.5	30.8	30.5	30.2	30.2	29.9	29.9	29.9	152.5°	610.0	610.0	610.0
28.9	28.6	28.6	28.9	28.9	28.9	28.9	28.6	28.9	155°	630.0	629.0	628.0
26.6	26.6	27.0	27.3	27.6	27.9	28.2	27.9	28.2	157.5°	646.0	645.5	645.0
25.7	25.7	25.7	26.3	26.6	27.0	27.6	27.6	27.6	160°	655.0	655.0	655.0
25.0	25.0	25.4	25.7	26.0	26.3	26.6	27.0	27.3	162.5°	661.0	662.0	663.0
24.7	25.0	24.7	25.0	25.4	26.0	26.3	26.3	26.6	165°	673.0	673.0	673.0
24.7	24.7	24.7	24.7	25.4	25.7	25.4	25.7	26.0	167.5°	688.0	686.5	685.0
24.7	24.7	24.4	24.7	25.0	25.4	25.0	25.0	25.7	170°	693.0	692.0	691.0
24.4	24.7	24.4	24.4	24.7	25.0	24.7	25.0	25.4	172.5°	690.0	690.0	690.0
23.8	24.1	23.8	24.1	24.1	24.4	24.4	24.4	24.7	175°	691.0	690.5	690.0
23.1	23.1	23.1	23.4	23.4	23.8	23.8	24.1	23.8	177.5°	697.0	696.0	695.0
22.5	22.5	22.5	22.8	22.8	23.1	23.4	23.1	23.1	180°	700.0	700.0	700.0
21.8	21.5	21.2	21.5	21.8	21.8	22.1	21.8	22.1				
20.9	20.5	20.2	20.2	20.5	20.5	20.9	20.5	20.5				
19.3	19.3	18.6	18.6	18.6	18.6	18.9	18.6	18.3				
17.3	17.3	16.7	16.7	16.7	16.7	16.4	16.4	16.4				
14.4	14.8	14.8	14.4	14.4	14.1	14.1	13.8	13.5				
10.9	11.6	11.9	11.9	11.9	11.9	11.9	11.2	10.6				
7.7	8.7	9.6	9.6	9.3	9.3	9.3	8.3	7.4				
4.8	5.8	6.1	6.7	5.8	5.5	5.5	4.8	4.5				
7.0	7.0	7.6	8.3	10.0	10.0	10.3	8.6	7.3				
6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0				
7.0	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0				
9.0	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0				
21.0	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0				
40.0	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0				
63.0	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0				
88.0	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0				



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-

SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	0°	630.1	630.1	630.1	630.1
145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	2.5°	541.2	553.0	554.6	556.2
176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	5°	444.9	456.7	450.0	452.9
208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	7.5°	324.8	317.1	327.1	333.2
244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	10°	237.2	246.2	250.0	257.1
278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	12.5°	196.8	202.5	209.6	220.8
311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	15°	159.5	163.7	172.7	183.6
342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	17.5°	116.2	122.3	128.1	137.1
374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	20°	78.0	80.6	87.6	91.8
408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	22.5°	62.6	63.6	64.8	68.4
440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	25°	56.2	56.8	57.8	59.1
470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	27.5°	51.0	51.4	52.3	53.0
498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	30°	46.5	46.2	46.5	47.5
526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	32.5°	41.7	41.7	42.4	42.4
553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	35°	35.9	35.6	36.3	37.2
577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	37.5°	33.1	33.4	34.0	34.7
595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	40°	31.5	31.8	32.4	33.1
610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	42.5°	29.9	30.5	31.1	32.1
627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	45°	28.9	29.5	30.5	31.5
644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	47.5°	28.6	29.2	30.2	31.5
656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	50°	27.9	28.9	29.9	31.1
665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	52.5°	27.9	28.6	29.5	31.1
672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	55°	27.0	27.9	28.9	30.5
681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	57.5°	26.3	27.0	28.2	30.2
688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	59°	26.0	26.6	27.9	29.9
689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	60°	25.4	26.3	27.6	29.5
690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	62.5°	24.7	25.7	27.0	28.9
694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	65°	23.8	25.0	26.3	27.6
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	23.1	23.8	25.0	26.3
								70°	21.8	22.5	23.4	24.4
								72.5°	20.2	20.5	21.2	22.1
								75°	18.0	18.3	18.6	19.6
								77.5°	15.7	15.7	16.0	17.3
								80°	13.2	13.2	13.5	14.1
								82.5°	10.0	10.0	10.6	11.6
								85°	7.1	6.7	7.7	8.3
								87.5°	4.2	3.9	4.2	4.2
								90°	7.3	8.0	8.6	9.6
								92.5°	6.0	6.0	6.0	6.0
								95°	7.0	7.0	7.0	7.0
								97.5°	8.0	8.0	8.5	9.0
								100°	19.0	19.0	21.0	23.0
								102.5°	38.0	39.0	40.5	42.0
								105°	61.0	61.0	63.0	65.0
								107.5°	86.0	87.0	88.5	90.0



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

ULG

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
630.1	630.1	630.1	630.1	630.1	630.1	630.1	110°	117.0	116.0	117.5	119.0	120.0
562.7	559.5	562.0	572.0	575.5	580.0	595.1	112.5°	147.0	147.0	148.0	149.0	149.5
460.0	464.1	460.0	480.2	481.1	494.6	500.1	115°	178.0	177.0	178.0	179.0	180.5
338.0	343.4	352.4	365.9	369.8	389.0	405.4	117.5°	209.0	208.0	209.0	210.0	212.5
263.8	270.9	283.4	291.8	300.1	311.3	324.5	120°	243.0	243.0	244.0	245.0	247.5
234.3	241.7	252.6	263.2	275.1	283.7	294.7	122.5°	277.0	276.0	277.0	278.0	280.5
195.8	207.3	217.9	231.7	241.7	257.4	270.3	125°	310.0	310.0	310.0	310.0	312.5
149.6	165.6	176.2	192.9	208.0	221.8	239.1	127.5°	347.0	345.0	345.5	346.0	346.0
104.0	116.5	130.0	148.0	167.5	186.5	209.6	130°	380.0	379.0	380.0	381.0	381.0
71.6	78.3	88.6	107.2	127.4	154.7	179.7	132.5°	415.0	414.0	414.0	414.0	415.0
61.0	63.6	67.4	76.4	93.4	123.3	150.9	135°	451.0	450.0	448.5	447.0	447.5
54.2	56.2	58.7	63.2	72.2	92.8	123.3	137.5°	482.0	481.0	478.5	476.0	475.5
49.8	52.0	54.6	57.8	62.6	76.7	99.5	140°	511.0	509.0	506.5	504.0	503.0
43.7	45.3	47.5	51.0	54.6	65.8	87.9	142.5°	536.0	534.0	533.5	533.0	533.0
38.5	40.4	43.3	45.9	49.4	58.4	79.9	145°	560.0	558.0	559.5	561.0	561.5
35.9	37.9	40.4	42.7	45.3	52.6	74.1	147.5°	585.0	583.0	584.5	586.0	585.5
34.3	36.3	38.8	40.8	42.4	50.7	71.9	150°	610.0	606.0	604.5	603.0	601.5
33.4	35.6	37.9	39.2	42.4	51.7	66.4	152.5°	628.0	623.0	620.5	618.0	616.0
33.1	35.3	37.9	40.1	46.5	48.8	62.9	155°	641.0	638.0	637.0	636.0	633.5
33.4	35.3	38.5	44.9	45.3	46.2	59.1	157.5°	655.0	650.0	650.0	650.0	649.0
33.4	36.3	43.0	46.9	43.0	43.7	55.5	160°	666.0	660.0	660.5	661.0	662.5
33.7	37.6	44.6	43.7	41.7	40.8	51.7	162.5°	674.0	668.0	669.0	670.0	670.5
33.7	36.9	42.7	41.1	38.5	38.8	47.2	165°	682.0	678.0	679.0	680.0	678.5
32.7	36.9	41.1	37.2	35.3	36.9	43.3	167.5°	694.0	688.0	688.0	688.0	686.0
32.1	37.9	36.6	34.3	34.3	35.9	41.4	170°	701.0	696.0	695.0	694.0	691.5
31.8	38.8	34.7	33.4	33.4	35.6	40.4	172.5°	701.0	696.0	695.0	694.0	693.0
30.8	36.3	31.8	31.1	32.1	33.7	39.2	175°	699.0	694.0	695.0	696.0	695.5
28.9	30.2	29.2	29.2	30.5	32.4	38.5	177.5°	702.0	698.0	699.5	701.0	700.0
26.6	27.3	27.3	27.6	28.9	30.5	39.2	180°	700.0	700.0	700.0	700.0	700.0
24.7	24.7	25.4	25.7	26.6	28.9	37.6						
22.5	22.8	22.8	23.4	24.1	26.3	36.3						
19.9	19.9	20.5	20.5	21.5	23.8	32.4						
17.3	17.3	17.3	17.7	18.3	20.5	26.6						
14.4	14.4	14.4	14.8	15.1	17.0	20.2						
11.6	11.2	10.9	10.9	11.6	13.2	15.7						
8.0	8.0	7.7	7.7	7.7	8.7	10.6						
4.5	3.9	4.2	4.5	4.2	4.8	5.8						
9.3	9.6	9.0	8.3	8.3	8.3	9.4						
6.5	7.0	7.0	7.0	6.5	6.0	6.0						
7.5	8.0	7.5	7.0	7.0	7.0	7.0						
9.5	10.0	11.0	12.0	10.5	9.0	9.0						
24.5	26.0	27.5	29.0	25.0	21.0	16.5						
44.5	47.0	48.5	50.0	45.0	40.0	33.5						
67.5	70.0	71.0	72.0	67.5	63.0	55.5						
92.0	94.0	94.5	95.0	91.5	88.0	80.5						



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
121.0	120.5	120.0	117.0	114.0	108.0	0°	630.1	630.1	630.1	630.1	630.1	630.1
150.0	149.0	148.0	145.5	143.0	138.5	2.5°	593.2	601.5	614.7	617.2	627.8	635.2
182.0	180.5	179.0	176.5	174.0	171.0	5°	502.6	522.5	529.6	543.4	567.5	579.7
215.0	213.0	211.0	208.0	205.0	203.5	7.5°	414.7	429.8	446.8	468.9	486.6	507.5
250.0	248.0	246.0	244.5	243.0	240.0	10°	341.2	362.7	384.8	402.8	427.5	452.6
283.0	281.0	279.0	278.0	277.0	274.0	12.5°	303.0	314.9	336.7	362.1	392.9	420.8
315.0	314.0	313.0	311.5	310.0	307.5	15°	283.1	297.2	320.6	347.6	380.4	415.0
346.0	345.5	345.0	342.5	340.0	339.5	17.5°	258.4	280.8	307.5	346.0	388.4	436.5
381.0	379.0	377.0	374.5	372.0	371.0	20°	234.0	261.3	296.3	347.0	405.7	468.3
416.0	413.5	411.0	408.0	405.0	404.5	22.5°	212.5	244.9	289.2	352.7	427.9	511.3
448.0	445.5	443.0	440.0	437.0	436.0	25°	187.1	230.5	283.7	364.6	461.9	569.1
475.0	474.0	473.0	470.5	468.0	466.0	27.5°	166.9	216.7	275.7	374.9	493.0	624.6
502.0	501.0	500.0	498.5	497.0	494.0	30°	144.4	200.6	264.5	378.4	530.9	670.2
533.0	530.0	527.0	526.0	525.0	523.0	32.5°	126.5	185.5	251.6	375.2	547.9	702.0
562.0	559.0	556.0	553.5	551.0	550.5	35°	117.8	174.6	240.7	364.0	562.0	736.3
585.0	582.5	580.0	577.5	575.0	574.5	37.5°	112.0	162.7	230.1	345.4	578.1	770.3
600.0	598.5	597.0	595.0	593.0	593.0	40°	104.6	153.4	221.5	331.9	590.6	798.6
614.0	612.5	611.0	610.5	610.0	610.0	42.5°	97.9	145.1	214.7	320.0	593.8	823.9
631.0	628.5	626.0	627.0	628.0	629.0	45°	92.1	139.9	209.6	320.6	596.0	859.2
648.0	646.0	644.0	644.5	645.0	645.5	47.5°	87.6	135.1	207.7	331.6	619.8	908.3
664.0	661.0	658.0	656.5	655.0	655.0	50°	83.5	131.0	204.5	352.7	658.0	974.8
671.0	669.0	667.0	665.0	663.0	662.0	52.5°	78.6	125.2	200.3	374.6	699.7	1063.7
677.0	674.5	672.0	672.5	673.0	673.0	55°	72.2	117.5	195.8	392.9	756.5	1171.9
684.0	681.0	678.0	681.5	685.0	686.5	57.5°	62.3	108.5	192.9	402.2	791.5	1234.1
689.0	687.5	686.0	688.5	691.0	692.0	59°	57.1	99.8	191.3	397.7	800.8	1244.7
692.0	690.5	689.0	689.5	690.0	690.0	60°	54.2	94.7	188.7	392.2	803.4	1238.0
695.0	692.5	690.0	690.0	690.0	690.5	62.5°	50.4	82.5	178.1	364.9	767.4	1156.5
699.0	696.5	694.0	694.5	695.0	696.0	65°	51.4	78.0	154.1	310.7	685.0	997.3
700.0	700.0	700.0	700.0	700.0	700.0	67.5°	52.6	76.1	133.2	251.0	546.0	825.2
						70°	51.7	75.1	121.0	199.6	408.9	617.9
						72.5°	50.4	70.9	105.0	160.5	259.3	432.7
						75°	44.6	59.7	82.5	110.1	163.7	315.2
						77.5°	35.0	45.9	58.4	68.4	83.1	222.4
						80°	25.7	33.4	38.2	41.1	46.2	151.8
						82.5°	18.3	22.5	24.4	26.0	30.8	113.6
						85°	13.8	15.7	17.0	17.0	20.9	80.2
						87.5°	7.7	8.0	8.0	8.7	10.3	21.8
						90°	10.2	10.2	9.9	9.7	8.6	7.3
						92.5°	6.0	6.0	6.0	5.5	5.0	4.5
						95°	7.0	7.0	7.0	6.5	6.0	5.5
						97.5°	9.0	8.5	8.0	8.0	8.0	7.5
						100°	12.0	11.0	10.0	9.5	9.0	8.5
						102.5°	27.0	22.5	18.0	15.5	13.0	12.0
						105°	48.0	42.0	36.0	31.5	27.0	24.5
						107.5°	73.0	65.5	58.0	53.5	49.0	45.5



REPORT NUMBER: P227159

CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
630.1	630.1	630.1	110°	102.0	94.5	87.0	80.5	74.0	71.0	68.0
643.5	648.4	652.2	112.5°	134.0	127.5	121.0	113.5	106.0	102.5	99.0
598.3	610.2	612.4	115°	168.0	163.5	159.0	153.0	147.0	143.0	139.0
530.6	549.8	556.6	117.5°	202.0	199.5	197.0	193.0	189.0	186.5	184.0
480.8	501.7	508.7	120°	237.0	235.0	233.0	229.5	226.0	224.5	223.0
453.5	477.9	485.6	122.5°	271.0	269.0	267.0	264.0	261.0	260.5	260.0
454.2	483.4	494.6	125°	305.0	302.0	299.0	297.5	296.0	295.0	294.0
483.7	517.1	530.9	127.5°	339.0	336.0	333.0	331.0	329.0	329.0	329.0
534.4	582.9	593.2	130°	370.0	368.0	366.0	364.0	362.0	361.5	361.0
603.1	650.6	666.0	132.5°	404.0	402.5	401.0	397.0	393.0	393.5	394.0
667.6	730.5	742.4	135°	435.0	433.5	432.0	429.0	426.0	426.0	426.0
731.2	793.4	804.0	137.5°	464.0	462.0	460.0	459.5	459.0	458.0	457.0
780.3	845.4	854.4	140°	491.0	490.0	489.0	488.0	487.0	486.0	485.0
827.5	901.0	910.9	142.5°	521.0	519.5	518.0	517.5	517.0	516.0	515.0
880.1	961.3	972.9	145°	550.0	548.5	547.0	545.5	544.0	545.0	546.0
927.6	1020.7	1028.1	147.5°	574.0	574.0	574.0	572.5	571.0	571.5	572.0
980.2	1069.2	1071.1	150°	593.0	593.0	593.0	593.0	593.0	592.5	592.0
1023.3	1105.1	1105.7	152.5°	610.0	609.5	609.0	608.5	608.0	608.0	608.0
1065.0	1138.8	1139.1	155°	630.0	628.5	627.0	626.0	625.0	625.0	625.0
1108.6	1175.7	1170.9	157.5°	646.0	645.0	644.0	643.5	643.0	643.0	643.0
1177.6	1219.4	1224.2	160°	655.0	655.5	656.0	657.5	659.0	659.5	660.0
1282.6	1319.8	1325.3	162.5°	661.0	663.0	665.0	667.0	669.0	669.0	669.0
1404.6	1456.2	1448.9	165°	673.0	674.5	676.0	676.0	676.0	677.0	678.0
1456.2	1515.3	1521.4	167.5°	688.0	687.0	686.0	685.0	684.0	685.5	687.0
1447.6	1528.1	1538.4	170°	693.0	692.5	692.0	692.0	692.0	693.5	695.0
1433.8	1524.3	1536.8	172.5°	690.0	691.5	693.0	694.0	695.0	696.0	697.0
1355.5	1484.2	1503.7	175°	691.0	693.0	695.0	696.0	697.0	697.5	698.0
1223.9	1401.0	1428.6	177.5°	697.0	698.0	699.0	699.5	700.0	702.5	705.0
1054.7	1276.8	1299.0	180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0
823.0	1037.7	1056.6								
546.9	712.6	745.3								
347.6	459.6	453.5								
256.5	298.8	299.1								
186.2	205.1	202.9								
144.1	125.2	124.9								
50.4	44.3	43.3								
21.8	18.3	18.6								
6.0	6.0	6.3								
4.0	4.0	4.0								
5.0	5.0	5.0								
7.0	7.0	7.0								
8.0	8.0	8.0								
11.0	11.0	11.0								
22.0	21.2	21.0								
42.0	41.2	41.0								



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

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