

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: P227155

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227155
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-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3980 lumens
Efficiency: N/A
Efficacy: 108.2 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

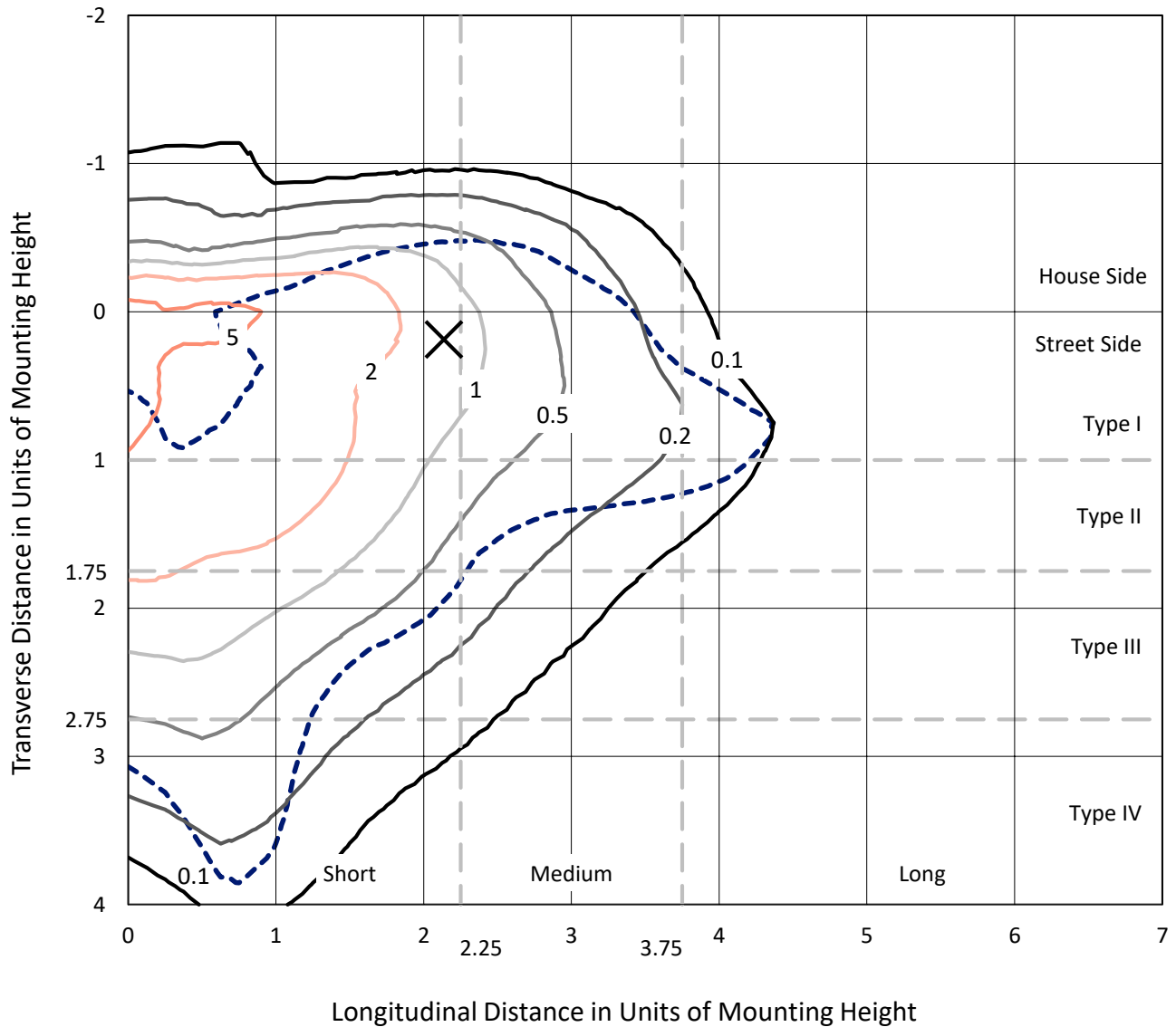
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

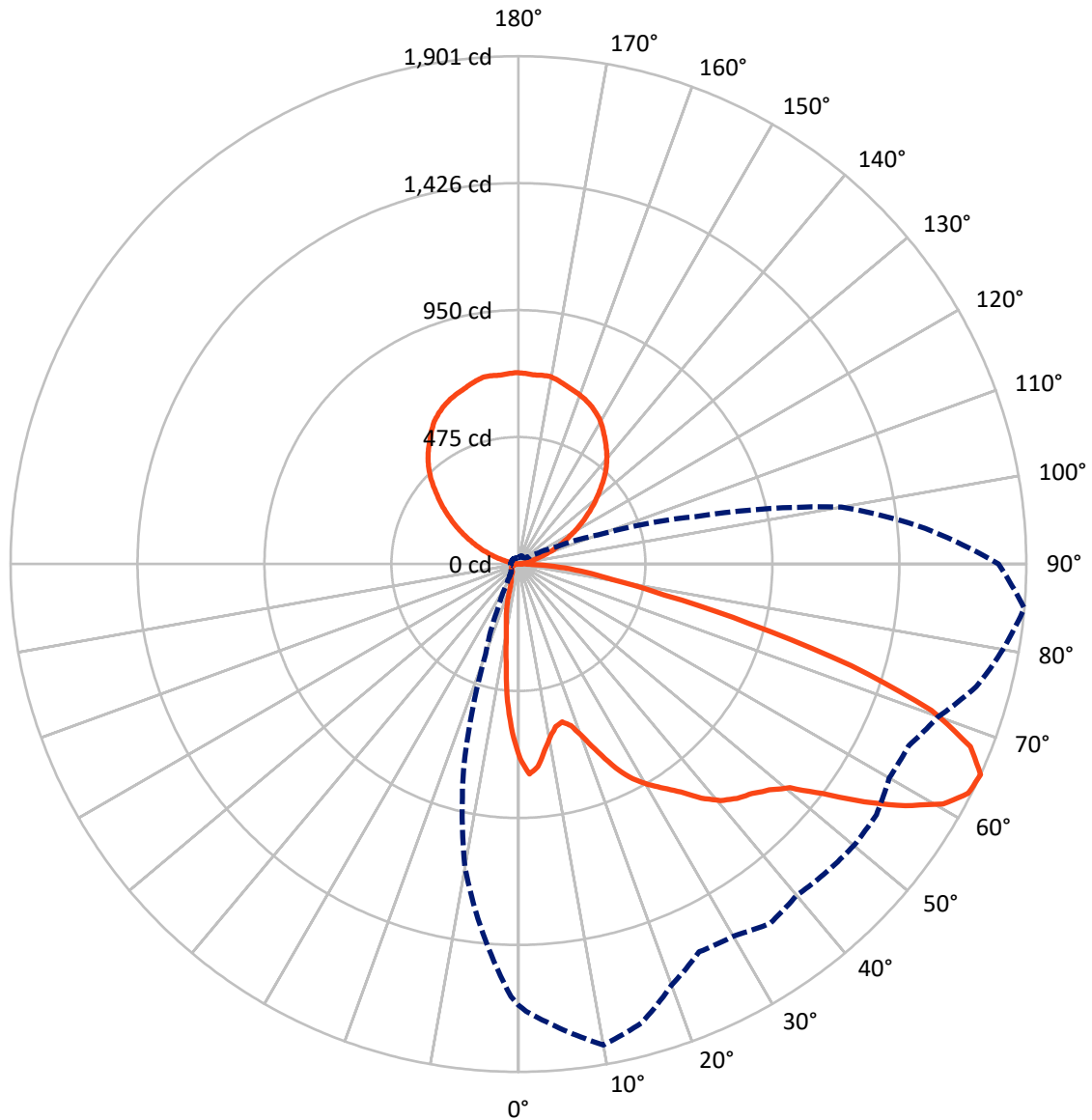
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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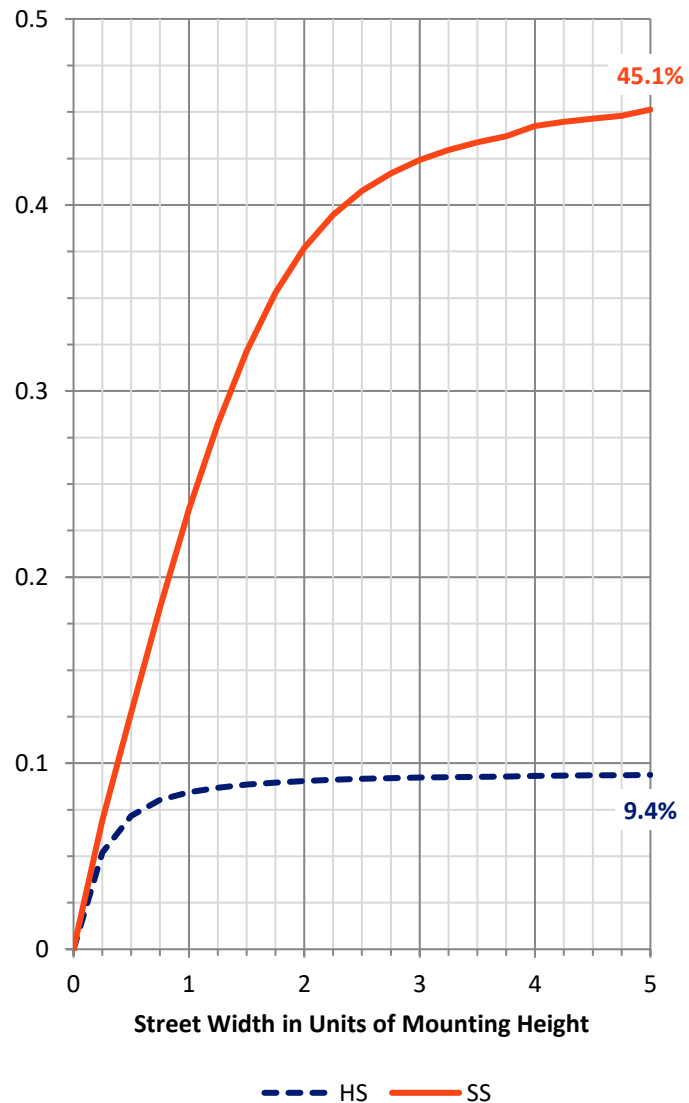
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	378.6	887.5	1266.1
	% Fixture	9.5	22.3	31.8
Street Side	Lumens	1826.4	887.6	2713.9
	% Fixture	45.9	22.3	68.2
Total	Lumens	2204.9	1775.1	3980.0
	% Fixture	55.4	44.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.4
10°-20°	103.8	2.6
20°-30°	148.0	3.7
30°-40°	214.7	5.4
40°-50°	307.2	7.7
50°-60°	471.6	11.8
60°-70°	545.9	13.7
70°-80°	278.5	7.0
80°-90°	81.4	2.0
90°-100°	9.6	0.2
100°-110°	58.7	1.5
110°-120°	169.9	4.3
120°-130°	279.4	7.0
130°-140°	344.6	8.7
140°-150°	352.5	8.9
150°-160°	297.0	7.5
160°-170°	195.5	4.9
170°-180°	67.8	1.7
0°-90°	2204.9	55.4
0°-180°	3980.0	100.0



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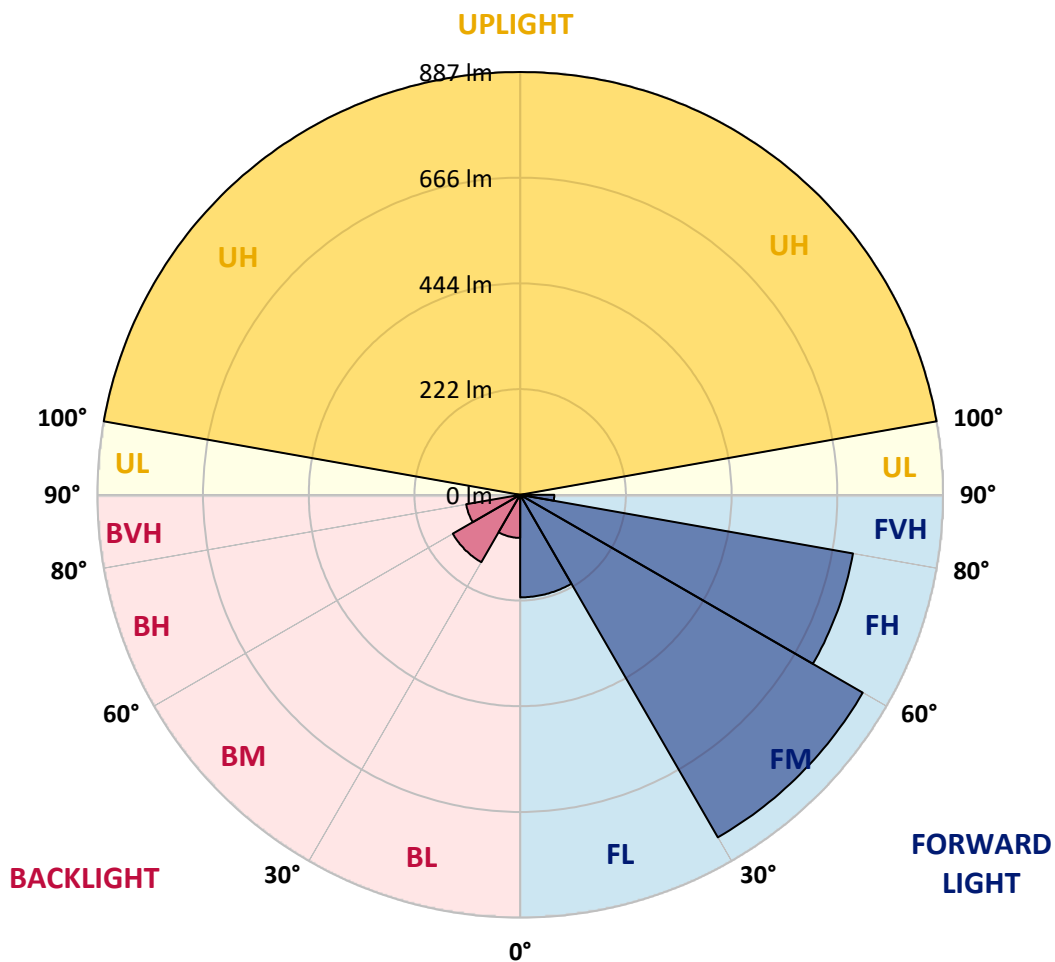
CATALOG NUMBER: ISW-AF-350-LED-E1-SLL-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.2	5.4			
FM (30°-60°)	830.2	20.9			
FH (60°-80°)	709.3	17.8			G1/1800
FVH (80°-90°)	71.6	1.8			G1/100
BL (0°-30°)	90.5	2.3	B0/110		
BM (30°-60°)	163.2	4.1	B0/220		
BH (60°-80°)	115.0	2.9	B1/500		G1/500
BVH (80°-90°)	9.9	0.2			G0/10
UL (90°-100°)	9.6	0.2		U1/10	
UH (100°-180°)	887.5	22.3		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	753.7	754.4	764.9	774.9	787.5	785.6	796.0	803.7	810.8	811.9	817.1
5°	707.7	715.1	738.5	758.5	783.8	803.4	824.6	841.3	853.4	865.0	866.4
7.5°	643.1	648.8	675.9	707.4	743.7	769.7	801.6	829.4	849.0	867.6	871.7
10°	587.9	593.1	623.2	663.9	695.8	729.6	762.6	785.2	810.8	826.7	834.5
12.5°	561.2	567.5	596.1	633.2	665.8	698.5	723.3	743.0	757.4	760.4	762.6
15°	571.6	574.9	606.4	639.4	665.4	681.8	688.4	700.3	699.2	705.1	706.2
17.5°	613.5	612.0	645.4	668.4	681.0	679.1	668.8	662.5	651.3	648.0	657.7
20°	685.5	690.7	712.2	726.3	713.3	683.2	654.7	635.0	619.4	614.3	613.2
22.5°	769.7	776.3	799.7	792.3	759.2	704.4	652.4	620.9	601.6	596.1	593.8
25°	857.9	862.3	874.2	849.0	802.7	731.4	668.0	623.9	598.3	590.1	589.0
27.5°	929.1	933.6	928.0	899.1	832.0	761.9	689.6	637.2	603.8	595.7	592.0
30°	987.4	989.6	971.1	935.1	868.3	795.7	717.7	660.6	621.6	603.1	600.5
32.5°	1052.7	1051.2	1015.2	965.5	899.1	826.0	750.0	686.9	638.7	616.1	612.0
35°	1124.2	1111.2	1047.8	995.5	920.2	849.4	779.3	714.7	666.1	636.2	631.0
37.5°	1188.1	1174.7	1089.7	1019.3	941.4	867.6	802.3	750.7	708.1	680.7	678.4
40°	1237.8	1221.4	1121.7	1035.2	951.8	881.0	829.4	796.0	767.8	745.5	745.5
42.5°	1277.8	1260.0	1152.9	1053.7	961.1	901.3	874.6	863.2	857.2	845.0	849.4
45°	1316.4	1298.2	1178.4	1065.6	981.8	941.0	944.7	954.7	972.5	965.5	971.8
47.5°	1353.2	1335.3	1207.4	1084.5	1021.9	1012.2	1031.5	1071.5	1106.4	1133.9	1153.2
50°	1414.6	1393.6	1259.3	1140.2	1084.9	1089.7	1145.4	1224.1	1280.7	1306.0	1304.6
52.5°	1531.6	1501.5	1371.0	1244.1	1175.1	1201.8	1267.4	1366.5	1440.6	1460.3	1468.1
55°	1674.4	1650.6	1532.3	1381.7	1331.6	1340.9	1422.5	1534.5	1591.6	1612.0	1618.7
57.5°	1758.1	1751.8	1677.6	1528.9	1480.3	1476.6	1583.1	1674.7	1724.1	1743.3	1737.4
59°	1777.8	1779.6	1737.4	1633.1	1566.3	1558.3	1666.5	1751.5	1792.6	1798.6	1795.6
60°	1775.9	1786.4	1781.2	1690.3	1620.9	1610.5	1701.8	1782.6	1817.2	1826.4	1816.0
62.5°	1737.8	1755.6	1804.9	1795.3	1744.4	1691.3	1734.4	1793.0	1815.2	1806.3	1798.6
65°	1650.9	1674.4	1742.9	1828.2	1779.3	1676.9	1601.6	1608.3	1642.0	1619.8	1630.6
67.5°	1501.1	1527.8	1564.2	1757.7	1686.5	1514.8	1385.4	1322.0	1306.0	1327.5	1361.6
70°	1221.1	1238.5	1330.4	1604.2	1481.0	1245.1	1082.7	998.1	970.0	1019.7	1054.6
72.5°	861.3	887.2	1008.5	1327.5	1218.4	997.4	819.4	741.4	713.3	715.5	745.9
75°	524.1	559.3	704.7	1049.6	960.3	764.0	624.3	568.2	559.8	554.8	549.7
77.5°	345.7	359.1	463.3	724.5	647.6	543.4	468.5	491.4	517.1	522.6	529.3
80°	234.5	238.4	300.4	508.2	426.6	401.3	378.7	432.9	481.5	490.4	485.5
82.5°	144.3	156.5	209.6	342.7	340.1	328.3	299.3	341.7	373.9	379.4	389.4
85°	50.1	52.3	128.7	302.7	345.7	349.4	246.6	194.8	218.8	214.7	154.3
87.5°	21.5	24.1	40.1	202.5	234.1	193.6	112.7	100.1	77.1	43.4	41.9
90°	6.6	6.6	6.2	8.0	12.7	11.4	11.6	9.3	8.2	7.7	7.2
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



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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	816.0	811.2	814.2	810.1	803.4	798.9	793.8	787.1	779.3	769.0	758.5
5°	863.2	859.4	850.2	836.8	818.3	802.7	784.1	762.2	744.1	720.7	698.8
7.5°	867.3	861.3	844.2	819.4	790.8	761.9	740.0	704.4	681.4	644.3	619.4
10°	830.1	830.5	813.5	790.0	760.4	726.3	694.7	655.8	622.1	584.2	542.7
12.5°	775.6	780.8	781.5	760.8	731.8	695.8	660.6	623.5	581.6	541.1	503.0
15°	713.6	728.4	729.6	724.5	709.2	678.8	646.5	613.2	570.5	526.3	483.3
17.5°	658.4	672.5	685.5	697.3	698.1	683.6	663.9	635.4	592.7	540.8	490.4
20°	616.4	631.7	654.0	675.9	699.9	707.4	708.8	690.7	645.1	581.6	513.3
22.5°	599.0	616.8	639.4	680.7	723.3	749.6	764.5	764.5	716.6	642.4	551.2
25°	595.4	609.8	644.3	695.5	752.6	798.6	826.7	845.7	811.2	720.7	597.9
27.5°	597.9	617.6	660.2	712.5	772.2	831.2	877.6	910.6	878.3	774.1	641.3
30°	608.3	637.6	681.8	735.9	797.5	859.8	915.8	957.7	934.0	822.7	682.5
32.5°	626.5	662.1	712.2	761.1	822.4	889.9	945.1	1000.3	983.0	856.4	704.4
35°	653.6	695.5	741.1	790.4	849.0	916.6	975.5	1047.8	1041.6	898.8	726.3
37.5°	697.3	740.3	782.3	824.6	880.1	945.8	1019.3	1111.6	1106.4	961.5	761.5
40°	774.5	799.7	830.8	857.9	910.2	972.9	1051.6	1164.3	1182.8	1015.2	792.7
42.5°	870.2	885.1	894.0	901.3	928.0	987.0	1074.9	1199.5	1230.0	1055.3	816.7
45°	992.2	987.8	970.0	952.9	949.9	995.1	1085.7	1225.5	1267.0	1094.3	841.3
47.5°	1136.5	1126.9	1078.3	1022.2	991.1	1010.1	1104.6	1263.8	1312.7	1145.4	871.7
50°	1303.0	1280.4	1201.0	1106.4	1048.9	1051.9	1152.5	1316.7	1372.8	1212.2	928.4
52.5°	1457.3	1416.9	1322.4	1197.4	1115.0	1125.0	1238.5	1426.5	1496.0	1322.7	1023.8
55°	1593.5	1541.6	1439.5	1302.6	1228.2	1245.5	1376.1	1572.0	1637.6	1454.3	1120.1
57.5°	1709.1	1653.9	1553.5	1432.8	1340.2	1354.6	1498.9	1707.0	1751.1	1572.7	1212.5
59°	1761.8	1707.3	1614.6	1503.3	1416.6	1447.0	1585.7	1774.1	1793.0	1618.3	1247.8
60°	1787.5	1733.0	1651.3	1542.6	1463.2	1503.3	1631.7	1824.9	1808.6	1625.0	1261.1
62.5°	1785.6	1747.4	1693.6	1619.4	1605.0	1671.7	1781.2	1890.2	1819.3	1605.7	1269.7
65°	1639.1	1635.8	1602.4	1610.9	1671.4	1774.5	1841.6	1900.9	1797.1	1528.9	1228.5
67.5°	1367.2	1380.9	1385.4	1437.7	1579.0	1754.1	1813.1	1824.5	1700.2	1364.6	1100.5
70°	1055.7	1025.2	1075.3	1167.7	1371.3	1596.8	1680.6	1640.6	1502.2	1142.8	898.8
72.5°	747.4	756.3	828.3	948.1	1155.4	1389.1	1520.4	1301.9	1130.2	855.3	637.2
75°	562.3	604.3	639.1	744.1	938.5	1189.9	1298.2	895.0	736.3	589.7	417.0
77.5°	539.0	535.6	508.9	531.1	676.6	833.5	926.2	558.6	461.0	385.8	251.9
80°	498.2	469.5	420.9	399.5	426.2	535.2	587.9	359.1	306.8	269.6	142.1
82.5°	386.5	367.2	316.0	314.6	355.4	380.2	404.3	254.4	230.7	218.5	87.2
85°	245.2	251.9	258.2	314.9	394.2	398.7	314.6	155.1	121.6	171.3	55.6
87.5°	72.7	118.4	143.5	243.7	355.4	356.5	236.6	50.8	45.6	53.4	32.2
90°	7.2	7.2	8.2	9.2	9.2	9.2	8.6	7.2	7.2	7.2	8.2
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

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



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

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	747.8	746.2	735.9	718.5	720.0	711.8	701.4	684.8	681.4	672.1	670.6
5°	680.3	662.9	640.2	612.7	602.4	588.3	573.8	563.4	550.4	538.6	554.5
7.5°	590.1	564.6	538.2	509.2	492.6	469.5	457.4	433.6	416.1	412.9	399.2
10°	514.9	482.5	452.6	426.6	395.4	373.9	358.3	345.3	333.5	319.0	310.1
12.5°	464.7	428.4	396.5	364.3	349.4	331.6	321.9	309.7	292.7	280.4	268.5
15°	442.1	402.8	368.0	339.7	318.2	301.6	284.5	269.6	251.1	237.4	223.6
17.5°	439.2	388.0	343.8	312.3	289.0	270.8	248.2	228.5	205.8	190.7	179.1
20°	442.5	376.9	321.6	280.4	256.7	224.7	203.7	179.5	157.2	137.3	119.1
22.5°	455.8	370.9	299.7	254.4	219.2	182.9	160.2	129.4	110.6	91.2	84.2
25°	474.0	367.2	280.8	225.9	181.4	145.4	114.6	89.0	80.5	75.7	73.0
27.5°	493.4	360.5	259.6	199.6	151.0	107.2	85.7	74.9	71.6	68.9	67.1
30°	507.8	347.6	233.6	171.3	120.2	91.7	76.4	69.4	67.1	64.1	62.3
32.5°	514.1	327.5	210.3	144.6	101.3	78.7	66.8	62.7	60.5	57.9	56.8
35°	513.0	304.9	198.5	134.3	92.7	69.8	58.6	56.1	53.1	50.4	47.9
37.5°	514.1	284.1	189.1	131.7	89.0	63.0	53.4	51.6	49.3	46.7	44.5
40°	518.5	272.6	184.7	126.1	86.0	60.5	49.3	47.5	47.1	44.1	42.2
42.5°	520.4	273.7	182.5	118.4	78.7	59.7	49.3	45.2	45.2	43.1	40.8
45°	518.1	281.9	183.9	113.9	73.0	56.1	52.0	45.2	44.1	42.2	40.1
47.5°	524.9	287.9	183.9	113.1	69.4	52.3	49.3	49.7	44.9	42.7	39.3
50°	552.3	293.4	180.2	112.0	68.2	48.6	46.7	49.0	50.4	43.4	39.7
52.5°	600.9	300.4	176.2	110.2	66.8	45.6	43.4	46.0	51.6	45.6	39.7
55°	650.6	313.0	173.6	107.2	64.5	43.8	39.3	44.1	47.1	45.2	39.3
57.5°	703.6	326.7	171.0	100.1	59.3	41.9	37.8	38.6	42.2	43.8	38.2
59°	719.5	333.5	168.8	94.9	54.9	40.4	36.7	35.6	37.8	41.9	37.4
60°	731.1	333.8	166.1	90.5	52.3	39.7	36.0	34.5	35.2	43.1	37.8
62.5°	732.2	333.5	158.0	81.2	47.1	38.2	34.9	33.0	32.2	36.0	38.6
65°	686.2	317.8	143.2	76.4	47.5	36.7	33.0	31.5	30.1	30.8	33.3
67.5°	600.2	277.8	127.6	77.5	50.1	35.6	31.5	30.1	28.9	28.2	29.3
70°	454.0	230.7	123.2	80.1	52.3	34.9	29.3	27.8	27.1	26.7	26.7
72.5°	314.6	189.9	118.4	81.9	54.1	34.5	27.1	25.6	25.3	24.9	24.9
75°	202.5	138.0	97.9	69.8	49.3	31.5	24.4	23.0	22.6	22.3	22.6
77.5°	119.8	96.5	71.9	49.0	36.0	25.3	21.2	20.0	20.0	20.0	20.4
80°	66.4	57.1	47.9	31.5	25.6	18.9	17.4	16.4	16.4	16.7	17.4
82.5°	39.7	31.5	27.1	20.0	17.4	13.4	13.0	12.3	12.6	13.0	13.7
85°	26.0	20.0	16.4	13.4	11.9	8.5	7.5	7.8	8.2	8.9	9.3
87.5°	14.4	11.2	8.9	7.8	7.1	3.7	3.0	3.0	3.7	4.5	5.2
90°	9.2	9.2	9.2	8.2	7.2	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



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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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

160°	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	110°	160°
728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	110°	82.3
675.9	665.0	653.6	645.1	648.8	636.5	637.6	634.2	632.8	632.1	624.3	112.5°	116.1
535.2	539.3	522.2	524.1	529.3	516.7	508.2	522.2	520.4	507.8	514.9	115°	156.5
385.8	386.9	379.1	361.6	361.6	370.9	374.3	380.9	385.3	401.0	391.3	117.5°	197.4
294.9	284.5	276.7	268.9	264.4	255.2	257.4	265.6	270.8	279.7	286.7	120°	234.8
256.4	244.8	231.1	219.2	212.9	204.4	198.9	196.9	198.9	193.2	193.6	122.5°	270.1
212.9	202.5	187.3	181.0	169.1	162.4	158.8	154.0	150.3	142.4	139.1	125°	304.3
165.1	151.3	135.7	135.7	127.3	121.6	120.2	119.1	116.8	112.7	108.6	127.5°	338.6
109.8	100.9	92.0	87.6	88.3	87.6	85.3	89.0	89.0	90.5	89.7	130°	372.4
80.1	78.7	75.3	72.7	71.2	70.9	71.2	72.3	74.6	76.4	78.3	132.5°	406.1
71.9	71.2	68.2	65.7	65.3	64.5	64.5	65.7	66.0	66.4	66.0	135°	438.8
66.8	65.3	62.7	60.9	60.0	59.7	60.0	59.0	58.2	58.6	58.2	137.5°	470.0
60.5	59.3	56.8	55.2	54.9	54.9	53.8	53.4	52.7	53.1	52.7	140°	499.2
55.6	54.1	51.6	49.7	49.7	49.3	49.7	49.3	49.0	48.6	48.6	142.5°	529.4
46.7	46.3	43.8	43.1	43.4	44.5	44.5	44.5	44.9	44.5	44.5	145°	558.0
43.4	43.1	40.4	38.6	38.2	38.2	38.2	39.0	40.1	40.4	41.1	147.5°	585.6
41.1	40.8	38.2	36.7	36.0	35.6	35.2	35.2	35.6	37.1	38.2	150°	606.6
39.7	39.0	36.3	34.5	34.2	33.8	33.3	33.3	33.3	33.8	34.9	152.5°	622.5
39.0	37.8	34.9	33.0	32.2	31.9	31.9	32.2	31.9	31.9	31.9	155°	640.4
37.8	37.1	34.2	31.9	31.2	31.2	30.8	30.8	30.8	30.1	30.1	157.5°	658.3
37.4	36.3	33.3	31.2	30.4	30.1	29.7	30.1	29.3	28.9	28.5	160°	672.6
36.7	35.2	31.9	30.1	29.7	28.9	28.5	28.5	28.5	27.8	27.8	162.5°	682.3
36.3	34.5	31.2	29.3	28.5	27.8	27.4	27.4	28.2	27.4	27.4	165°	691.5
36.0	33.3	30.1	27.8	27.4	26.7	26.3	26.7	27.8	27.1	26.7	167.5°	700.7
34.5	32.6	29.3	27.4	26.7	26.0	25.6	26.0	26.7	26.7	26.7	170°	707.9
33.8	31.9	28.5	26.7	26.3	25.6	25.3	25.3	26.3	26.3	26.0	172.5°	709.9
32.6	31.2	27.8	25.6	24.9	24.9	24.4	24.4	24.9	24.9	25.3	175°	712.0
31.2	30.4	27.1	24.4	24.1	23.7	23.7	23.7	23.7	24.4	24.4	177.5°	715.6
29.7	29.3	26.0	23.7	23.0	23.0	23.0	23.0	23.0	23.3	23.7	180°	716.1
27.4	27.4	24.4	22.3	21.9	21.5	21.5	21.5	21.5	21.9	22.3		
25.3	25.6	22.6	20.4	20.0	20.0	20.0	20.0	20.4	20.4	20.8		
23.0	23.3	20.4	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.9		
20.8	20.8	17.4	15.2	15.5	16.0	16.4	16.0	16.0	16.4	17.4		
17.8	17.4	14.4	12.6	12.6	13.4	13.7	13.4	13.7	13.7	15.2		
14.1	14.1	11.2	9.3	9.3	10.7	10.7	10.7	11.2	11.5	12.6		
10.7	10.4	7.8	6.3	6.3	7.5	7.8	8.2	8.5	8.9	9.6		
6.3	6.3	4.1	2.6	3.0	3.4	4.5	4.5	4.5	5.2	6.3		
7.7	7.6	6.1	5.1	5.1	5.1	6.1	7.2	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		

'227155
 ISW-AF-350-LED-E1-SLL-ULG

REPORT NUMBER: P227155
 CATALOG NUMBER: ISW-AF-3!

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°	728.1	728.1
108.4	104.9	101.3	101.3	101.3	104.9	108.4	116.1	123.8	130.4	2.5°	631.0	630.5
150.4	146.3	142.2	143.2	142.2	146.3	150.4	156.5	162.6	167.3	5°	517.8	514.4
193.3	190.8	188.2	188.2	188.2	190.8	193.3	197.4	201.5	204.1	7.5°	401.3	413.6
231.2	229.7	228.1	230.2	228.1	229.7	231.2	234.8	238.3	240.4	10°	289.3	297.9
267.0	266.5	266.0	269.0	266.0	266.5	267.0	270.1	273.1	275.2	12.5°	201.4	205.8
302.8	301.8	300.7	304.8	300.7	301.8	302.8	304.3	305.9	308.9	15°	138.7	147.6
336.6	336.6	336.6	337.6	336.6	336.6	336.6	338.6	340.6	343.7	17.5°	107.9	109.0
370.3	369.8	369.3	371.3	369.3	369.8	370.3	372.4	374.4	376.4	20°	89.0	89.7
402.0	402.5	403.0	405.1	403.0	402.5	402.0	406.1	410.2	411.7	22.5°	79.0	80.5
435.8	435.8	435.8	438.8	435.8	435.8	435.8	438.8	441.9	443.4	25°	66.4	67.9
469.5	468.5	467.5	470.6	467.5	468.5	469.5	470.0	470.6	472.6	27.5°	58.6	60.0
498.2	497.2	496.1	499.2	496.1	497.2	498.2	499.2	500.2	501.2	30°	53.8	54.5
528.9	527.8	526.8	529.9	526.8	527.8	528.9	529.4	529.9	531.4	32.5°	49.0	49.0
556.5	557.5	558.5	562.6	558.5	557.5	556.5	558.0	559.6	561.1	35°	44.9	45.2
584.1	584.6	585.1	588.2	585.1	584.6	584.1	585.6	587.2	587.2	37.5°	41.9	42.7
606.6	606.1	605.6	608.7	605.6	606.1	606.6	606.6	606.6	606.6	40°	39.3	39.7
622.0	622.0	622.0	625.0	622.0	622.0	622.0	622.5	623.0	623.5	42.5°	35.6	36.3
639.3	639.3	639.3	643.4	639.3	639.3	639.3	640.4	641.4	642.9	45°	32.2	32.6
657.8	657.8	657.8	660.8	657.8	657.8	657.8	658.3	658.8	659.8	47.5°	30.1	30.1
674.1	674.6	675.1	678.2	675.1	674.6	674.1	672.6	671.1	670.5	50°	28.5	28.9
684.4	684.4	684.4	688.4	684.4	684.4	684.4	682.3	680.3	678.2	52.5°	27.8	28.2
691.5	692.5	693.6	696.6	693.6	692.5	691.5	691.5	691.5	690.0	55°	27.4	28.2
699.7	701.2	702.8	705.8	702.8	701.2	699.7	700.7	701.7	702.8	57.5°	27.4	27.8
707.9	709.4	711.0	714.0	711.0	709.4	707.9	707.9	707.9	708.4	59°	27.1	27.4
711.0	712.0	713.0	715.0	713.0	712.0	711.0	709.9	708.9	707.4	60°	27.1	27.8
713.0	713.5	714.0	716.1	714.0	713.5	713.0	712.0	711.0	708.9	62.5°	26.0	26.7
716.1	718.6	721.2	723.2	721.2	718.6	716.1	715.6	715.0	714.0	65°	25.3	26.0
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	24.1	25.3
										70°	23.0	24.1
										72.5°	21.5	23.0
										75°	20.0	21.2
										77.5°	18.2	19.3
										80°	16.0	16.4
										82.5°	13.4	13.4
										85°	10.0	8.9
										87.5°	5.5	5.9
										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

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

50-LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	110°	104.3	110.5	116.6
622.8	622.8	633.9	635.0	622.1	625.3	631.7	624.3	632.4	112.5°	137.1	141.7	146.3
522.6	518.1	518.5	515.6	520.8	514.9	521.1	518.9	517.1	115°	171.9	174.9	178.0
405.8	413.6	408.1	397.2	405.8	399.2	386.5	387.6	373.5	117.5°	206.6	208.2	209.7
304.9	299.3	296.3	291.1	277.4	280.1	266.0	268.2	273.0	120°	242.4	245.5	248.6
210.3	206.2	211.0	207.8	202.1	203.3	206.2	209.2	217.0	122.5°	277.2	280.3	283.4
147.6	145.8	144.6	146.9	153.2	156.5	161.3	170.2	174.7	125°	312.0	314.6	317.1
110.9	111.3	110.2	113.5	118.7	121.3	122.4	123.2	128.4	127.5°	346.8	347.3	347.8
91.7	93.1	92.7	93.8	92.4	90.8	92.0	89.7	87.9	130°	378.5	379.5	380.5
80.1	80.5	78.7	78.3	76.0	74.2	72.7	72.7	71.9	132.5°	413.3	413.8	414.3
67.9	68.2	66.4	66.4	66.0	67.1	66.4	65.0	64.5	135°	445.0	446.0	447.0
60.9	60.0	59.0	59.0	58.2	58.2	58.6	59.0	58.6	137.5°	474.6	476.7	478.7
54.5	53.8	53.4	53.8	53.4	53.8	54.1	53.8	54.1	140°	502.3	505.3	508.4
50.1	49.3	49.3	49.7	49.3	49.7	49.7	49.7	49.3	142.5°	533.0	535.0	537.0
46.3	45.6	45.6	45.6	45.2	44.5	43.8	42.7	41.5	145°	562.6	563.1	563.6
43.4	43.1	42.2	41.9	40.8	38.6	37.8	37.8	37.8	147.5°	587.2	587.7	588.2
40.8	40.1	39.7	38.2	36.7	36.0	36.0	36.0	36.0	150°	606.6	606.6	606.6
37.4	36.3	35.6	35.2	34.9	34.9	34.5	34.5	34.5	152.5°	624.0	624.0	624.0
33.3	33.0	33.0	33.3	33.3	33.3	33.3	33.0	33.3	155°	644.5	643.4	642.4
30.8	30.8	31.2	31.5	31.9	32.2	32.6	32.2	32.6	157.5°	660.8	660.3	659.8
29.7	29.7	29.7	30.4	30.8	31.2	31.9	31.9	31.9	160°	670.0	670.0	670.0
28.9	28.9	29.3	29.7	30.1	30.4	30.8	31.2	31.5	162.5°	676.2	677.2	678.2
28.5	28.9	28.5	28.9	29.3	30.1	30.4	30.4	30.8	165°	688.4	688.4	688.4
28.5	28.5	28.5	28.5	29.3	29.7	29.3	29.7	30.1	167.5°	703.8	702.3	700.7
28.5	28.5	28.2	28.5	28.9	29.3	28.9	28.9	29.7	170°	708.9	707.9	706.9
28.2	28.5	28.2	28.2	28.5	28.9	28.5	28.9	29.3	172.5°	705.8	705.8	705.8
27.4	27.8	27.4	27.8	27.8	28.2	28.2	28.2	28.5	175°	706.9	706.3	705.8
26.7	26.7	26.7	27.1	27.1	27.4	27.4	27.8	27.4	177.5°	713.0	712.0	711.0
26.0	26.0	26.0	26.3	26.3	26.7	27.1	26.7	26.7	180°	716.1	716.1	716.1
25.3	24.9	24.4	24.9	25.3	25.3	25.6	25.3	25.6				
24.1	23.7	23.3	23.3	23.7	23.7	24.1	23.7	23.7				
22.3	22.3	21.5	21.5	21.5	21.5	21.9	21.5	21.2				
20.0	20.0	19.3	19.3	19.3	19.3	18.9	18.9	18.9				
16.7	17.1	17.1	16.7	16.7	16.4	16.4	16.0	15.5				
12.6	13.4	13.7	13.7	13.7	13.7	13.7	13.0	12.3				
8.9	10.0	11.2	11.2	10.7	10.7	10.7	9.6	8.5				
5.5	6.6	7.1	7.8	6.6	6.3	6.3	5.5	5.2				
7.2	7.2	7.9	8.6	10.3	10.3	10.7	8.9	7.6				
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				



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

SLL-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°	728.1	728.1	728.1	728.1
148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	2.5°	625.3	639.1	641.0	642.8
180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	5°	514.1	527.8	520.1	523.3
212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	7.5°	375.3	366.4	378.0	385.0
250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	10°	274.2	284.5	289.0	297.1
284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	12.5°	227.4	234.1	242.2	255.2
318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	15°	184.3	189.1	199.6	212.2
350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	17.5°	134.3	141.3	148.0	158.4
383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	20°	90.1	93.1	101.3	106.1
417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	22.5°	72.3	73.4	74.9	79.0
450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	25°	65.0	65.7	66.8	68.2
481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	27.5°	59.0	59.3	60.5	61.2
509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	30°	53.8	53.4	53.8	54.9
538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	32.5°	48.2	48.2	49.0	49.0
566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	35°	41.5	41.1	41.9	43.1
590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	37.5°	38.2	38.6	39.3	40.1
608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	40°	36.3	36.7	37.4	38.2
624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	42.5°	34.5	35.2	36.0	37.1
641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	45°	33.3	34.2	35.2	36.3
659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	47.5°	33.0	33.8	34.9	36.3
671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	50°	32.2	33.3	34.5	36.0
680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	52.5°	32.2	33.0	34.2	36.0
687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	55°	31.2	32.2	33.3	35.2
697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	57.5°	30.4	31.2	32.6	34.9
704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	59°	30.1	30.8	32.2	34.5
705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	60°	29.3	30.4	31.9	34.2
705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	62.5°	28.5	29.7	31.2	33.3
710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	65°	27.4	28.9	30.4	31.9
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	26.7	27.4	28.9	30.4
								70°	25.3	26.0	27.1	28.2
								72.5°	23.3	23.7	24.4	25.6
								75°	20.8	21.2	21.5	22.6
								77.5°	18.2	18.2	18.5	20.0
								80°	15.2	15.2	15.5	16.4
								82.5°	11.5	11.5	12.3	13.4
								85°	8.2	7.8	8.9	9.6
								87.5°	4.8	4.5	4.8	4.8
								90°	7.6	8.3	8.9	9.9
								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



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

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
728.1	728.1	728.1	728.1	728.1	728.1	728.1	110°	119.7	118.7	120.2	121.7	122.8
650.2	646.5	649.5	660.9	665.0	670.2	687.7	112.5°	150.4	150.4	151.4	152.4	152.9
531.5	536.3	531.5	554.8	556.0	571.6	577.9	115°	182.1	181.1	182.1	183.1	184.6
390.6	396.9	407.2	422.9	427.3	449.6	468.5	117.5°	213.8	212.8	213.8	214.8	217.4
304.9	313.0	327.5	337.2	346.8	359.8	375.0	120°	248.6	248.6	249.6	250.6	253.2
270.8	279.3	292.0	304.1	317.8	327.9	340.5	122.5°	283.4	282.3	283.4	284.4	286.9
226.3	239.6	251.9	267.8	279.3	297.5	312.3	125°	317.1	317.1	317.1	317.1	319.7
172.9	191.4	203.7	222.9	240.4	256.4	276.3	127.5°	355.0	352.9	353.4	353.9	353.9
120.2	134.6	150.3	171.0	193.6	215.5	242.2	130°	388.7	387.7	388.7	389.7	389.7
82.8	90.5	102.4	123.9	147.3	178.8	207.8	132.5°	424.5	423.5	423.5	423.5	424.5
70.5	73.4	77.8	88.3	107.9	142.4	174.3	135°	461.4	460.3	458.8	457.3	457.8
62.7	65.0	67.9	73.0	83.5	107.2	142.4	137.5°	493.1	492.0	489.5	486.9	486.4
57.5	60.0	63.0	66.8	72.3	88.7	115.0	140°	522.7	520.7	518.1	515.6	514.5
50.4	52.3	54.9	59.0	63.0	76.0	101.7	142.5°	548.3	546.3	545.7	545.2	545.2
44.5	46.7	50.1	53.1	57.1	67.5	92.4	145°	572.9	570.8	572.3	573.9	574.4
41.5	43.8	46.7	49.3	52.3	60.9	85.7	147.5°	598.4	596.4	597.9	599.4	598.9
39.7	41.9	44.9	47.1	49.0	58.6	83.1	150°	624.0	619.9	618.4	616.8	615.3
38.6	41.1	43.8	45.2	49.0	59.7	76.8	152.5°	642.4	637.3	634.7	632.2	630.1
38.2	40.8	43.8	46.3	53.8	56.4	72.7	155°	655.7	652.6	651.6	650.6	648.0
38.6	40.8	44.5	52.0	52.3	53.4	68.2	157.5°	670.0	664.9	664.9	664.9	663.9
38.6	41.9	49.7	54.1	49.7	50.4	64.1	160°	681.3	675.1	675.7	676.2	677.7
39.0	43.4	51.6	50.4	48.2	47.1	59.7	162.5°	689.5	683.3	684.4	685.4	685.9
39.0	42.7	49.3	47.5	44.5	44.9	54.5	165°	697.7	693.6	694.6	695.6	694.1
37.8	42.7	47.5	43.1	40.8	42.7	50.1	167.5°	709.9	703.8	703.8	703.8	701.7
37.1	43.8	42.2	39.7	39.7	41.5	47.9	170°	717.1	712.0	711.0	709.9	707.4
36.7	44.9	40.1	38.6	38.6	41.1	46.7	172.5°	717.1	712.0	711.0	709.9	708.9
35.6	41.9	36.7	36.0	37.1	39.0	45.2	175°	715.0	709.9	711.0	712.0	711.5
33.3	34.9	33.8	33.8	35.2	37.4	44.5	177.5°	718.1	714.0	715.6	717.1	716.1
30.8	31.5	31.5	31.9	33.3	35.2	45.2	180°	716.1	716.1	716.1	716.1	716.1
28.5	28.5	29.3	29.7	30.8	33.3	43.4						
26.0	26.3	26.3	27.1	27.8	30.4	41.9						
23.0	23.0	23.7	23.7	24.9	27.4	37.4						
20.0	20.0	20.0	20.4	21.2	23.7	30.8						
16.7	16.7	16.7	17.1	17.4	19.6	23.3						
13.4	13.0	12.6	12.6	13.4	15.2	18.2						
9.3	9.3	8.9	8.9	8.9	10.0	12.3						
5.2	4.5	4.8	5.2	4.8	5.5	6.6						
9.6	9.9	9.3	8.7	8.7	8.7	9.9						
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						



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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°	728.1	728.1	728.1	728.1	728.1	728.1
153.4	152.4	151.4	148.8	146.3	141.7	2.5°	685.5	695.1	710.3	713.3	725.5	734.1
186.2	184.6	183.1	180.6	178.0	174.9	5°	580.8	603.8	612.0	628.0	655.8	669.9
219.9	217.9	215.8	212.8	209.7	208.2	7.5°	479.3	496.6	516.3	542.0	562.3	586.5
255.7	253.7	251.6	250.1	248.6	245.5	10°	394.2	419.1	444.8	465.5	494.1	523.0
289.5	287.4	285.4	284.4	283.4	280.3	12.5°	350.2	363.9	389.1	418.4	454.0	486.3
322.2	321.2	320.2	318.6	317.1	314.6	15°	327.1	343.5	370.5	401.7	439.6	479.6
353.9	353.4	352.9	350.4	347.8	347.3	17.5°	298.6	324.6	355.4	399.9	448.8	504.4
389.7	387.7	385.7	383.1	380.5	379.5	20°	270.4	302.0	342.4	401.0	468.8	541.1
425.5	423.0	420.4	417.4	414.3	413.8	22.5°	245.5	283.1	334.2	407.6	494.4	590.9
458.3	455.7	453.2	450.1	447.0	446.0	25°	216.3	266.3	327.9	421.4	533.8	657.7
485.9	484.9	483.9	481.3	478.7	476.7	27.5°	192.9	250.4	318.6	433.2	569.7	721.8
513.5	512.5	511.5	509.9	508.4	505.3	30°	166.9	231.8	305.7	437.3	613.5	774.5
545.2	542.2	539.1	538.1	537.0	535.0	32.5°	146.2	214.4	290.8	433.6	633.2	811.2
574.9	571.8	568.8	566.2	563.6	563.1	35°	136.2	201.8	278.1	420.6	649.5	850.9
598.4	595.9	593.3	590.8	588.2	587.7	37.5°	129.4	188.0	266.0	399.2	668.0	890.2
613.8	612.2	610.7	608.7	606.6	606.6	40°	120.9	177.3	255.9	383.5	682.5	922.8
628.1	626.6	625.0	624.5	624.0	624.0	42.5°	113.1	167.7	248.2	369.8	686.2	952.2
645.5	642.9	640.4	641.4	642.4	643.4	45°	106.5	161.7	242.2	370.5	688.8	993.0
662.9	660.8	658.8	659.3	659.8	660.3	47.5°	101.3	156.2	240.0	383.2	716.3	1049.6
679.2	676.2	673.1	671.6	670.0	670.0	50°	96.5	151.3	236.3	407.6	760.4	1126.5
686.4	684.4	682.3	680.3	678.2	677.2	52.5°	90.8	144.6	231.5	432.9	808.6	1229.2
692.5	690.0	687.4	687.9	688.4	688.4	55°	83.5	135.7	226.3	454.0	874.2	1354.2
699.7	696.6	693.6	697.1	700.7	702.3	57.5°	71.9	125.4	222.9	464.7	914.7	1426.2
704.8	703.3	701.7	704.3	706.9	707.9	59°	66.0	115.4	221.1	459.6	925.5	1438.5
707.9	706.3	704.8	705.3	705.8	705.8	60°	62.7	109.5	218.1	453.3	928.4	1430.6
711.0	708.4	705.8	705.8	705.8	706.3	62.5°	58.2	95.3	205.8	421.8	886.9	1336.4
715.0	712.5	709.9	710.4	711.0	712.0	65°	59.3	90.1	178.0	359.1	791.6	1152.5
716.1	716.1	716.1	716.1	716.1	716.1	67.5°	60.9	87.9	154.0	290.1	631.0	953.6
						70°	59.7	86.7	139.8	230.7	472.5	714.0
						72.5°	58.2	81.9	121.3	185.5	299.7	500.0
						75°	51.6	68.9	95.3	127.3	189.1	364.3
						77.5°	40.4	53.1	67.5	79.0	96.1	257.1
						80°	29.7	38.6	44.1	47.5	53.4	175.4
						82.5°	21.2	26.0	28.2	30.1	35.6	131.3
						85°	16.0	18.2	19.6	19.6	24.1	92.7
						87.5°	8.9	9.3	9.3	10.0	11.9	25.3
						90°	10.7	10.7	10.4	10.2	9.0	7.7
						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



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

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
728.1	728.1	728.1	110°	104.3	96.7	89.0	82.3	75.7	72.6	69.6
743.7	749.2	753.7	112.5°	137.1	130.4	123.8	116.1	108.4	104.9	101.3
691.4	705.1	707.7	115°	171.9	167.3	162.6	156.5	150.4	146.3	142.2
613.2	635.4	643.1	117.5°	206.6	204.1	201.5	197.4	193.3	190.8	188.2
555.7	579.7	587.9	120°	242.4	240.4	238.3	234.8	231.2	229.7	228.1
524.1	552.3	561.2	122.5°	277.2	275.2	273.1	270.1	267.0	266.5	266.0
524.9	558.6	571.6	125°	312.0	308.9	305.9	304.3	302.8	301.8	300.7
558.9	597.5	613.5	127.5°	346.8	343.7	340.6	338.6	336.6	336.6	336.6
617.6	673.6	685.5	130°	378.5	376.4	374.4	372.4	370.3	369.8	369.3
696.9	751.9	769.7	132.5°	413.3	411.7	410.2	406.1	402.0	402.5	403.0
771.5	844.2	857.9	135°	445.0	443.4	441.9	438.8	435.8	435.8	435.8
845.0	916.9	929.1	137.5°	474.6	472.6	470.6	470.0	469.5	468.5	467.5
901.7	977.0	987.4	140°	502.3	501.2	500.2	499.2	498.2	497.2	496.1
956.3	1041.2	1052.7	142.5°	533.0	531.4	529.9	529.4	528.9	527.8	526.8
1017.0	1110.9	1124.2	145°	562.6	561.1	559.6	558.0	556.5	557.5	558.5
1072.0	1179.6	1188.1	147.5°	587.2	587.2	587.2	585.6	584.1	584.6	585.1
1132.8	1235.5	1237.8	150°	606.6	606.6	606.6	606.6	606.6	606.1	605.6
1182.5	1277.1	1277.8	152.5°	624.0	623.5	623.0	622.5	622.0	622.0	622.0
1230.7	1316.0	1316.4	155°	644.5	642.9	641.4	640.4	639.3	639.3	639.3
1281.1	1358.7	1353.2	157.5°	660.8	659.8	658.8	658.3	657.8	657.8	657.8
1360.9	1409.1	1414.6	160°	670.0	670.5	671.1	672.6	674.1	674.6	675.1
1482.2	1525.2	1531.6	162.5°	676.2	678.2	680.3	682.3	684.4	684.4	684.4
1623.1	1682.9	1674.4	165°	688.4	690.0	691.5	691.5	691.5	692.5	693.6
1682.9	1751.1	1758.1	167.5°	703.8	702.8	701.7	700.7	699.7	701.2	702.8
1672.8	1765.9	1777.8	170°	708.9	708.4	707.9	707.9	707.9	709.4	711.0
1656.9	1761.5	1775.9	172.5°	705.8	707.4	708.9	709.9	711.0	712.0	713.0
1566.3	1715.1	1737.8	175°	706.9	708.9	711.0	712.0	713.0	713.5	714.0
1414.3	1619.0	1650.9	177.5°	713.0	714.0	715.0	715.6	716.1	718.6	721.2
1218.8	1475.5	1501.1	180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1
951.0	1199.2	1221.1								
632.1	823.5	861.3								
401.7	531.1	524.1								
296.3	345.3	345.7								
215.1	237.0	234.5								
166.5	144.6	144.3								
58.2	51.1	50.1								
25.3	21.2	21.5								
6.2	6.2	6.6								
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

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