

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: P226880

Luminaire Tested: **ISW-AF-800-LED-E1-SL3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-800-LED-E1-SL3-ULG
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III 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: 6738.9 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

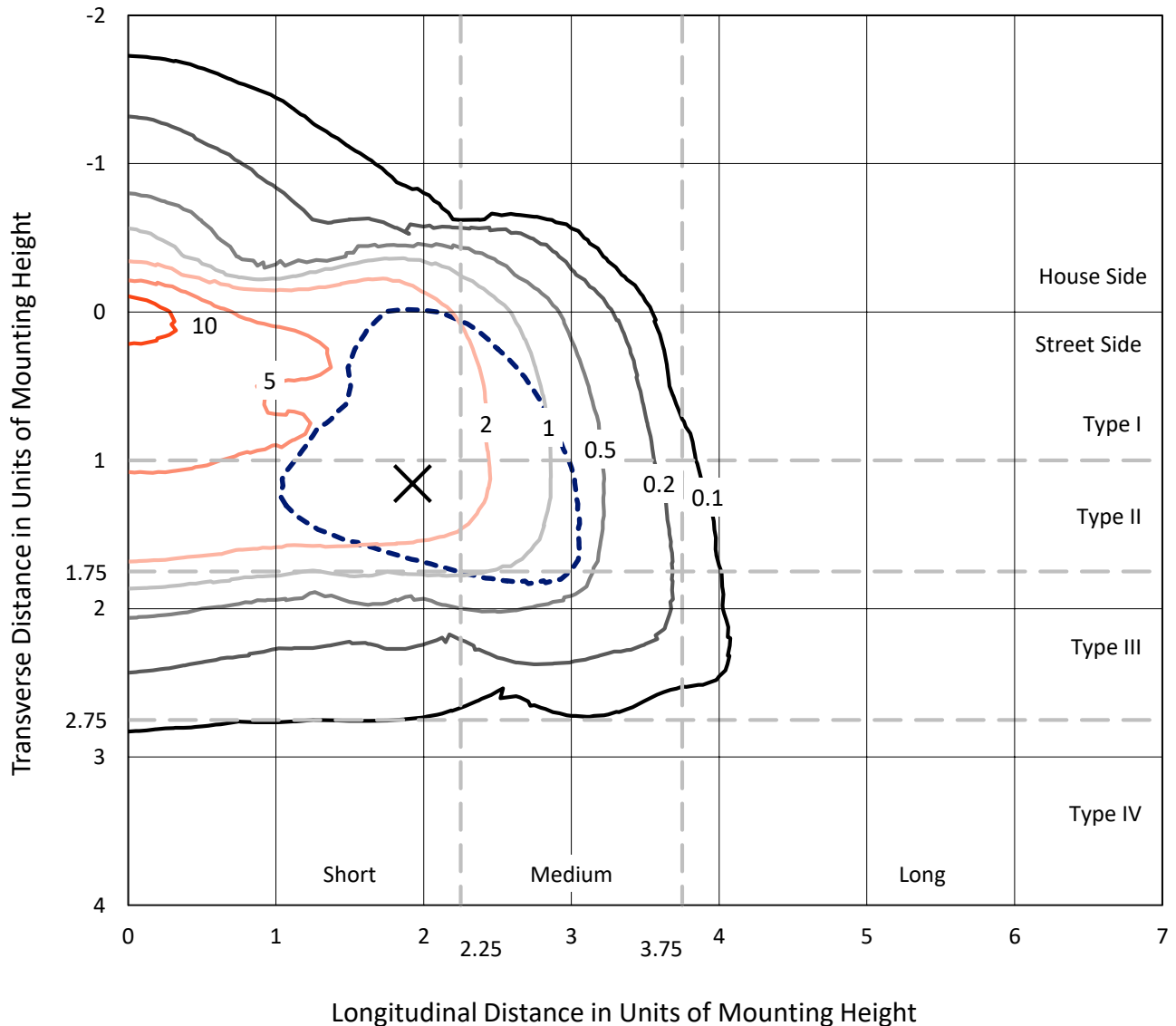
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

Iso-Footcandle Lines of Horizontal Illumination

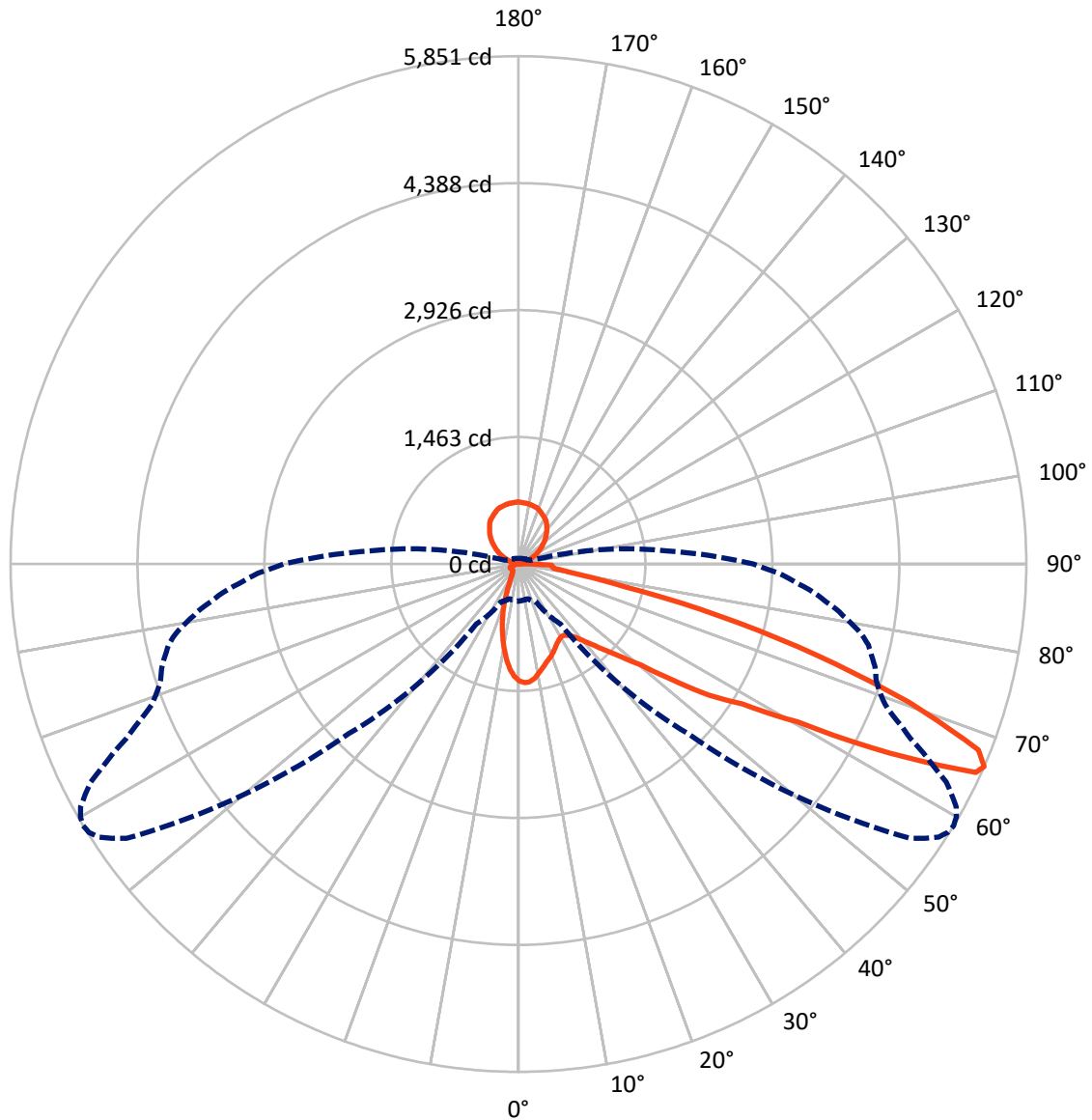
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P226880
CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P226880

CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

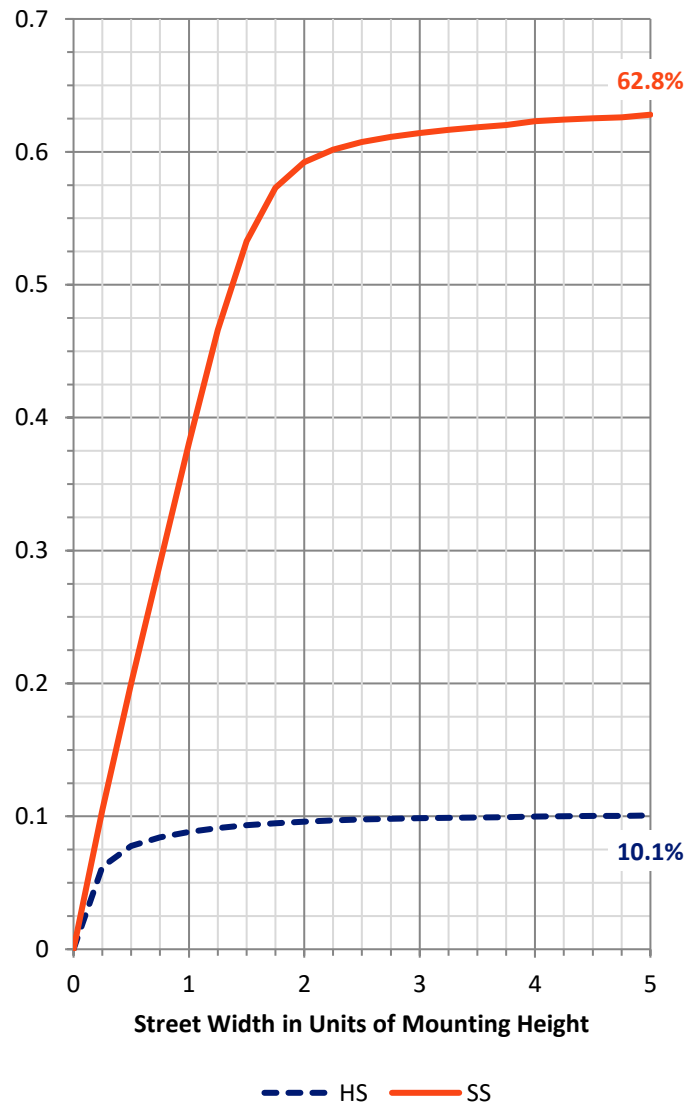
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	689.1	887.8	1576.9
	% Fixture	10.2	13.2	23.4
Street Side	Lumens	4272.7	889.3	5162.0
	% Fixture	63.4	13.2	76.6
Total	Lumens	4961.8	1777.1	6738.9
	% Fixture	73.6	26.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.7
10°-20°	242.8	3.6
20°-30°	304.5	4.5
30°-40°	416.7	6.2
40°-50°	670.3	9.9
50°-60°	1164.7	17.3
60°-70°	1415.1	21.0
70°-80°	527.9	7.8
80°-90°	104.9	1.6
90°-100°	11.6	0.2
100°-110°	58.7	0.9
110°-120°	169.9	2.5
120°-130°	279.4	4.1
130°-140°	344.6	5.1
140°-150°	352.5	5.2
150°-160°	297.0	4.4
160°-170°	195.5	2.9
170°-180°	67.8	1.0
0°-90°	4961.8	73.6
0°-180°	6738.9	100.0



REPORT NUMBER: P226880

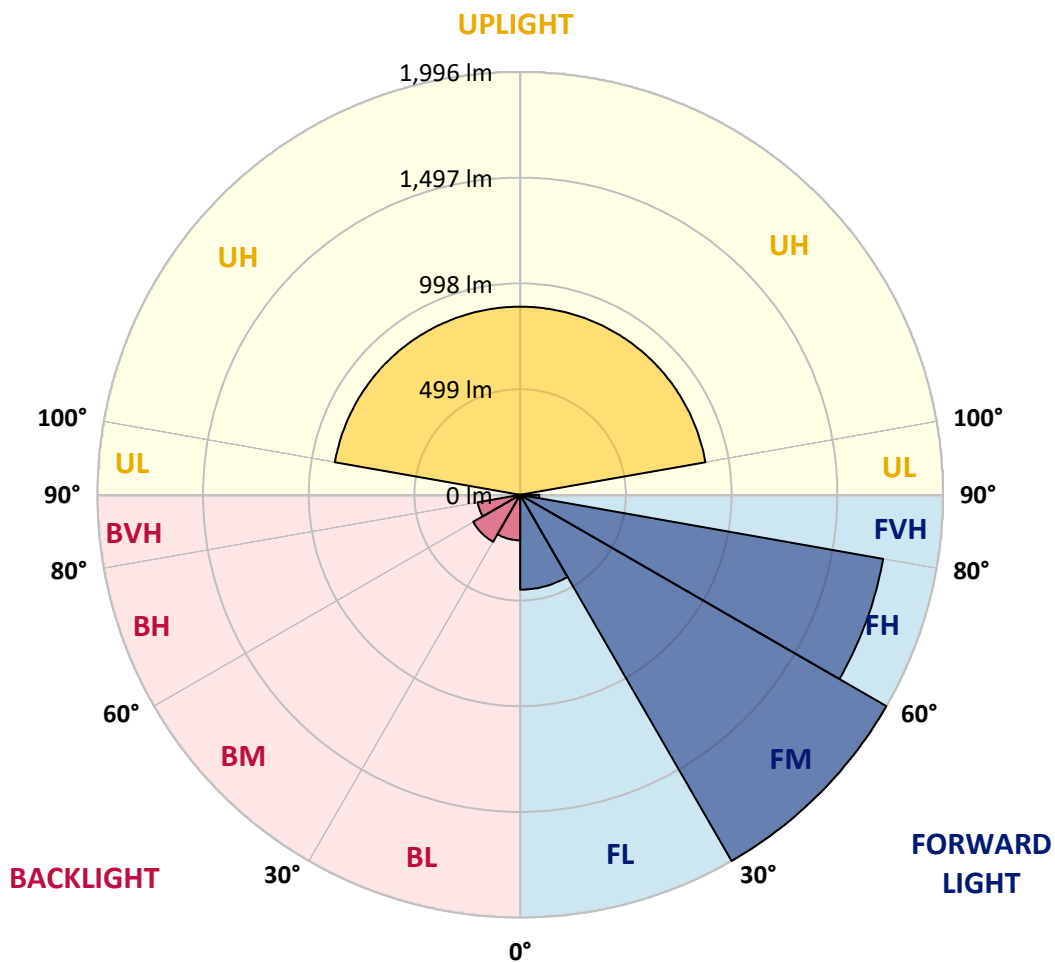
CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.5	6.6			
FM (30°-60°)	1995.6	29.6			
FH (60°-80°)	1739.4	25.8			G1/1800
FVH (80°-90°)	90.1	1.3			G1/100
BL (0°-30°)	214.7	3.2	B1/500		
BM (30°-60°)	256.0	3.8	B1/1000		
BH (60°-80°)	203.6	3.0	B1/500		G1/500
BVH (80°-90°)	14.8	0.2			G1/100
UL (90°-100°)	11.6	0.2		U2/50	
UH (100°-180°)	887.8	13.2		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





REPORT NUMBER: P226880

CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2
2.5°	1383.2	1378.7	1387.0	1384.1	1386.3	1374.8	1372.6	1370.3	1371.9	1369.5	1369.5
5°	1350.5	1348.2	1358.2	1363.5	1368.1	1366.6	1365.7	1365.7	1366.6	1361.2	1362.0
7.5°	1254.6	1253.1	1266.8	1276.7	1298.8	1311.7	1328.5	1329.2	1330.8	1328.5	1333.0
10°	1152.8	1157.3	1169.4	1185.4	1218.1	1238.0	1269.9	1276.0	1278.3	1279.0	1279.8
12.5°	1055.4	1050.8	1066.0	1096.4	1140.6	1172.5	1212.8	1215.9	1219.7	1225.0	1230.3
15°	968.6	974.0	986.1	1018.0	1064.5	1109.4	1161.9	1164.9	1172.5	1177.1	1184.7
17.5°	909.2	909.2	922.9	952.6	995.9	1053.0	1119.2	1124.5	1130.7	1136.7	1145.1
20°	879.5	879.5	884.9	902.3	940.4	995.2	1075.1	1081.2	1091.9	1098.6	1110.1
22.5°	877.3	876.6	875.7	879.5	902.3	945.0	1028.0	1036.4	1045.5	1056.1	1066.0
25°	901.6	903.9	894.8	888.7	891.0	910.7	983.1	987.7	1005.2	1012.0	1024.2
27.5°	936.6	940.4	932.8	923.7	910.0	897.0	945.0	952.6	964.0	975.5	990.6
30°	986.8	986.1	985.3	979.3	952.6	912.3	933.5	938.9	948.8	957.9	970.9
32.5°	1040.9	1047.0	1051.5	1048.5	1021.1	952.6	949.6	954.1	963.3	968.6	976.9
35°	1110.8	1113.9	1131.4	1131.4	1104.1	1024.9	994.4	998.3	1002.8	1005.2	1011.2
37.5°	1187.7	1198.4	1224.3	1239.5	1196.9	1114.7	1065.2	1065.2	1067.6	1069.0	1072.9
40°	1276.7	1292.0	1327.7	1356.6	1329.2	1226.5	1158.1	1164.9	1162.6	1159.6	1167.9
42.5°	1380.3	1396.9	1440.3	1467.7	1451.8	1361.2	1282.8	1278.3	1285.1	1276.0	1279.0
45°	1500.5	1513.4	1557.5	1586.4	1599.4	1526.3	1446.5	1437.2	1437.2	1417.5	1425.9
47.5°	1608.5	1612.3	1654.9	1705.9	1747.7	1749.2	1636.6	1630.6	1616.1	1603.2	1600.1
50°	1708.9	1720.3	1747.7	1803.3	1890.7	1966.8	1898.4	1879.4	1863.4	1815.4	1829.9
52.5°	1883.2	1905.2	1922.7	1956.2	2059.7	2214.2	2298.6	2268.9	2265.1	2221.7	2211.8
55°	1915.9	1918.1	1975.9	2169.3	2412.7	2523.8	2685.9	2685.1	2697.3	2683.6	2670.6
57.5°	1762.1	1743.9	1840.6	2095.4	2584.7	3155.3	3105.9	3111.2	3095.2	3053.4	3040.4
60°	1372.6	1387.8	1492.1	1817.0	2460.7	3563.1	3889.6	3792.9	3862.2	3753.4	3694.8
62.5°	772.3	754.7	825.5	1167.2	2018.6	3584.4	4957.1	4967.8	5001.2	4940.3	4797.3
65°	498.4	490.8	484.0	590.4	1209.7	3135.5	5547.5	5678.4	5756.8	5788.7	5791.0
66°	428.4	422.3	413.9	483.1	843.0	2762.7	5509.5	5649.5	5774.3	5833.6	5851.1
67.5°	364.5	355.4	353.8	400.2	586.7	2143.4	5146.6	5366.4	5476.8	5630.4	5714.1
70°	278.4	273.9	287.7	345.5	450.4	1008.9	4101.1	4387.9	4578.1	4698.4	4776.0
72.5°	233.5	232.1	251.1	315.8	426.9	572.1	2870.8	3178.9	3377.5	3492.4	3598.9
75°	182.6	184.1	209.2	301.3	424.5	498.4	1667.8	1961.5	2077.2	2258.3	2396.8
77.5°	137.0	135.4	155.2	243.5	413.9	505.2	866.6	988.4	1115.4	1207.5	1240.9
80°	95.9	97.4	111.1	167.4	322.6	519.7	540.2	568.4	595.1	624.7	630.8
82.5°	63.9	64.7	82.1	114.9	223.7	496.1	504.4	491.5	471.0	445.1	417.0
85°	38.8	40.3	58.6	77.6	173.5	448.9	521.9	487.7	456.5	422.3	388.0
87.5°	19.7	22.1	35.0	45.6	102.7	221.4	543.3	518.1	475.6	423.1	385.0
90°	10.4	10.4	14.7	19.6	28.7	52.1	144.1	130.6	69.2	124.9	65.8
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.3	7.4	7.5	7.6
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	12.1	11.9	11.7	11.5
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	29.4	29.1	28.7	28.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.8	50.5	50.2	49.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.4	73.2	73.0	72.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	97.1	97.0	96.9	96.8



REPORT NUMBER: P226880

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	122.9	123.0	123.1	123.2
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	151.6	151.8	152.0	152.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	183.4	183.7	184.0	184.3
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	216.3	216.7	217.1	217.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.1	252.5	252.9	253.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	285.8	286.2	286.6	287.0
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.4	320.6	320.8	321.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.0	353.1	353.2	353.3
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.1	386.5	386.9	387.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	420.9	421.5	422.0	422.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	453.7	454.2	454.7	455.2
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.1	484.3	484.5	484.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	511.7	511.9	512.1	512.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	539.7	540.3	540.9	541.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	569.4	570.0	570.6	571.2
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	593.8	594.3	594.8	595.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.0	611.3	611.6	611.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	625.3	625.6	625.9	626.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	640.9	641.4	641.9	642.4
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	659.2	659.6	660.0	660.4
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	673.7	674.3	674.9	675.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	682.7	683.1	683.5	683.9
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	687.9	688.4	689.0	689.5
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	694.2	694.8	695.4	696.0
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.1	702.4	702.7	703.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.1	705.4	705.7	706.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	706.3	706.9	707.4	707.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	710.4	711.0	711.5	712.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2
2.5°	1368.8	1370.3	1368.8	1366.6	1368.8	1366.6	1365.7	1365.0	1365.7	1364.2	1363.5
5°	1362.0	1363.5	1363.5	1358.9	1358.2	1361.2	1356.6	1358.2	1356.6	1355.1	1352.0
7.5°	1329.2	1330.0	1330.8	1327.7	1330.0	1330.0	1328.5	1328.5	1327.0	1327.7	1324.7
10°	1283.6	1286.7	1289.6	1288.2	1287.4	1294.2	1291.2	1293.5	1293.5	1291.2	1292.0
12.5°	1234.1	1239.5	1243.3	1243.3	1246.3	1253.9	1253.1	1254.6	1260.8	1260.8	1258.4
15°	1188.5	1193.8	1199.9	1204.4	1210.6	1215.9	1219.7	1225.8	1228.8	1228.8	1232.7
17.5°	1152.8	1160.3	1167.2	1169.4	1177.8	1186.9	1189.3	1196.9	1201.5	1203.7	1208.3
20°	1117.7	1126.1	1134.5	1142.0	1149.7	1160.3	1165.7	1170.3	1177.8	1182.4	1189.3
22.5°	1076.7	1089.5	1100.2	1109.4	1122.3	1131.4	1142.0	1149.7	1158.8	1165.7	1171.0
25°	1037.8	1055.4	1069.8	1078.9	1096.4	1109.4	1122.3	1133.7	1145.1	1155.0	1162.6
27.5°	1002.1	1021.8	1039.3	1053.8	1072.9	1093.3	1106.3	1125.3	1140.6	1154.2	1163.4
30°	984.6	1001.3	1019.6	1036.4	1055.4	1081.2	1102.5	1126.9	1145.9	1163.4	1177.1
32.5°	988.4	1003.6	1019.6	1034.0	1053.8	1082.7	1104.8	1132.9	1161.0	1184.0	1201.5
35°	1018.8	1032.5	1043.2	1056.1	1073.6	1095.7	1119.2	1148.9	1184.0	1214.3	1237.2
37.5°	1082.7	1086.5	1097.2	1107.0	1116.2	1136.7	1158.8	1184.0	1224.3	1256.2	1288.2
40°	1161.9	1171.8	1181.6	1186.2	1196.9	1209.7	1219.7	1246.3	1282.1	1323.9	1358.9
42.5°	1279.8	1283.6	1285.1	1286.7	1290.5	1299.6	1314.0	1338.3	1373.4	1410.6	1449.4
45°	1412.2	1416.8	1421.3	1423.6	1418.2	1423.6	1438.8	1450.2	1484.5	1519.5	1568.9
47.5°	1595.5	1581.9	1575.0	1584.1	1579.5	1591.0	1597.8	1604.7	1645.7	1687.6	1729.5
50°	1830.7	1822.3	1811.6	1812.4	1820.8	1813.2	1817.7	1842.8	1856.6	1891.5	1947.1
52.5°	2206.5	2180.6	2140.3	2122.8	2132.8	2126.6	2129.0	2134.3	2125.1	2157.8	2205.0
55°	2670.6	2637.2	2610.6	2595.3	2539.1	2534.5	2497.2	2483.5	2453.9	2485.1	2474.3
57.5°	3001.6	2980.4	2966.7	2920.9	2895.2	2843.4	2828.2	2809.9	2768.8	2789.4	2807.6
60°	3640.8	3564.7	3538.8	3458.9	3432.3	3382.8	3319.7	3288.5	3267.2	3286.9	3274.8
62.5°	4707.5	4601.7	4581.2	4391.7	4345.3	4231.2	4112.5	4096.5	4029.6	3987.8	3977.8
65°	5749.2	5597.7	5484.3	5277.4	5137.4	4974.6	4793.4	4661.1	4524.9	4456.4	4365.9
66°	5826.7	5766.7	5652.5	5531.5	5327.6	5149.5	4944.1	4801.1	4648.2	4528.0	4450.3
67.5°	5694.4	5662.4	5622.0	5539.9	5412.1	5246.2	5051.4	4868.8	4684.7	4543.1	4419.1
70°	4813.3	4848.3	4893.9	4872.6	4799.6	4734.9	4563.0	4461.0	4322.5	4136.8	4060.8
72.5°	3633.1	3726.7	3694.8	3574.6	3518.2	3473.3	3411.0	3342.5	3143.9	3121.1	3031.3
75°	2337.4	2306.2	2326.7	2180.6	2081.0	2039.9	1891.5	1830.7	1681.5	1584.9	1511.1
77.5°	1231.8	1171.0	1123.8	995.2	903.2	849.2	776.8	691.6	560.8	553.1	433.7
80°	571.4	525.0	482.4	437.5	392.6	333.3	289.1	235.9	208.5	178.8	166.6
82.5°	388.0	358.3	332.5	302.8	268.6	227.5	196.3	166.6	142.3	127.9	116.4
85°	351.5	319.6	290.6	253.4	217.6	183.4	149.9	124.0	101.2	88.3	80.6
87.5°	341.7	302.1	271.6	231.3	196.3	161.3	129.3	100.5	78.4	63.9	54.8
90°	51.6	54.8	42.0	40.7	22.7	26.7	22.1	16.8	17.6	15.3	16.1
92.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.0	6.9	6.8	6.6
95°	7.7	7.8	7.9	8.0	8.1	8.2	8.1	8.0	7.9	7.8	7.7
97.5°	11.3	11.0	10.8	10.6	10.4	10.2	10.1	10.0	9.9	9.8	9.7
100°	28.1	27.8	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1
102.5°	49.6	49.3	49.0	48.7	48.4	48.1	47.6	47.1	46.5	46.0	45.5
105°	72.6	72.4	72.2	72.0	71.8	71.6	71.1	70.6	70.1	69.6	69.0
107.5°	96.7	96.6	96.5	96.4	96.3	96.2	95.7	95.3	94.9	94.5	94.1



REPORT NUMBER: P226880

CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	123.3	123.4	123.5	123.6	123.7	123.8	123.6	123.4	123.2	123.0	122.8
112.5°	152.4	152.6	152.8	153.0	153.2	153.4	153.3	153.2	153.1	153.0	152.9
115°	184.6	184.9	185.3	185.6	185.9	186.2	185.9	185.6	185.3	184.9	184.6
117.5°	217.9	218.3	218.7	219.1	219.5	219.9	219.4	218.9	218.4	217.9	217.4
120°	253.7	254.1	254.5	254.9	255.3	255.7	255.2	254.7	254.2	253.7	253.2
122.5°	287.4	287.9	288.3	288.7	289.1	289.5	289.0	288.5	288.0	287.4	286.9
125°	321.2	321.4	321.6	321.8	322.0	322.2	321.7	321.2	320.7	320.2	319.7
127.5°	353.4	353.5	353.6	353.7	353.8	353.9	353.9	353.9	353.9	353.9	353.9
130°	387.7	388.1	388.5	388.9	389.3	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	423.0	423.5	424.0	424.5	425.0	425.5	425.3	425.1	424.9	424.7	424.5
135°	455.7	456.2	456.7	457.3	457.8	458.3	458.2	458.1	458.0	457.9	457.8
137.5°	484.9	485.1	485.3	485.5	485.7	485.9	486.0	486.1	486.2	486.3	486.4
140°	512.5	512.7	512.9	513.1	513.3	513.5	513.7	513.9	514.1	514.3	514.5
142.5°	542.2	542.8	543.4	544.0	544.6	545.2	545.2	545.2	545.2	545.2	545.2
145°	571.8	572.4	573.1	573.7	574.3	574.9	574.8	574.7	574.6	574.5	574.4
147.5°	595.9	596.4	596.9	597.4	597.9	598.4	598.5	598.6	598.7	598.8	598.9
150°	612.2	612.5	612.8	613.2	613.5	613.8	614.1	614.4	614.7	615.0	615.3
152.5°	626.6	626.9	627.2	627.5	627.8	628.1	628.5	628.9	629.3	629.7	630.1
155°	642.9	643.4	643.9	644.5	645.0	645.5	646.0	646.5	647.0	647.5	648.0
157.5°	660.8	661.2	661.6	662.1	662.5	662.9	663.1	663.3	663.5	663.7	663.9
160°	676.2	676.8	677.4	678.0	678.6	679.2	678.9	678.6	678.3	678.0	677.7
162.5°	684.4	684.8	685.2	685.6	686.0	686.4	686.3	686.2	686.1	686.0	685.9
165°	690.0	690.5	691.0	691.5	692.0	692.5	692.8	693.2	693.5	693.8	694.1
167.5°	696.6	697.2	697.9	698.5	699.1	699.7	700.1	700.5	700.9	701.3	701.7
170°	703.3	703.6	703.9	704.2	704.5	704.8	705.3	705.8	706.3	706.9	707.4
172.5°	706.3	706.7	707.0	707.3	707.6	707.9	708.1	708.3	708.5	708.7	708.9
175°	708.4	708.9	709.4	709.9	710.4	711.0	711.1	711.2	711.3	711.4	711.5
177.5°	712.5	713.0	713.5	714.0	714.5	715.0	715.2	715.5	715.7	715.9	716.1
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: P226880

CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2
2.5°	1362.0	1359.7	1362.0	1361.2	1358.2	1358.9	1359.7	1356.6	1355.1	1355.1	1354.4
5°	1349.8	1348.2	1349.8	1349.1	1344.5	1343.7	1343.7	1341.4	1338.3	1336.1	1334.5
7.5°	1320.8	1322.4	1321.7	1319.3	1317.0	1317.0	1314.8	1309.5	1306.4	1303.3	1300.4
10°	1288.2	1288.2	1288.9	1288.2	1284.3	1282.8	1279.8	1276.7	1277.5	1269.9	1263.9
12.5°	1259.3	1259.3	1258.4	1257.0	1254.6	1253.9	1253.9	1244.8	1242.5	1240.2	1233.4
15°	1231.8	1233.4	1233.4	1233.4	1229.6	1229.6	1225.8	1219.7	1219.7	1212.8	1206.0
17.5°	1210.6	1212.8	1212.1	1212.8	1213.6	1209.0	1202.2	1198.4	1193.8	1190.0	1180.9
20°	1192.2	1193.8	1194.6	1194.6	1192.2	1189.3	1183.1	1177.1	1174.0	1166.4	1155.0
22.5°	1175.6	1178.5	1179.4	1179.4	1176.3	1174.0	1167.9	1158.8	1152.8	1143.6	1132.9
25°	1168.7	1172.5	1170.3	1171.8	1168.7	1163.4	1155.0	1147.4	1138.2	1126.9	1115.4
27.5°	1171.0	1176.3	1174.8	1174.0	1170.3	1166.4	1155.7	1146.6	1136.0	1122.3	1107.9
30°	1184.7	1193.8	1190.0	1186.9	1186.2	1177.1	1167.2	1154.2	1142.0	1126.1	1109.4
32.5°	1210.6	1215.1	1215.9	1213.6	1209.7	1202.2	1188.5	1171.8	1158.1	1139.1	1119.2
35°	1253.1	1257.7	1256.2	1256.2	1252.4	1240.2	1223.4	1206.8	1187.7	1166.4	1145.9
37.5°	1312.5	1320.8	1319.3	1316.3	1311.7	1297.3	1284.3	1263.9	1242.5	1214.3	1190.7
40°	1387.0	1400.0	1411.4	1409.1	1398.5	1385.6	1373.4	1349.8	1328.5	1297.3	1271.4
42.5°	1487.5	1505.0	1519.5	1530.1	1525.5	1508.9	1487.5	1477.7	1447.2	1415.3	1388.6
45°	1616.1	1652.6	1665.6	1678.5	1678.5	1667.8	1663.2	1643.5	1611.6	1568.9	1543.8
47.5°	1785.8	1834.5	1848.9	1871.0	1883.9	1872.5	1864.1	1830.7	1809.4	1750.8	1744.6
50°	1992.0	2040.7	2080.3	2106.1	2102.3	2112.2	2092.4	2073.4	2043.7	1995.8	1979.0
52.5°	2255.2	2294.1	2329.8	2345.0	2361.0	2358.7	2354.1	2341.2	2303.9	2278.0	2235.5
55°	2525.4	2557.3	2600.6	2625.8	2646.3	2642.5	2625.0	2593.8	2600.6	2546.6	2523.0
57.5°	2832.8	2867.7	2914.9	2938.5	2947.6	2994.1	2982.6	2978.8	2965.8	2946.8	2922.5
60°	3361.5	3371.4	3410.2	3469.5	3542.6	3528.2	3546.5	3558.6	3567.7	3525.1	3522.1
62.5°	3991.6	4003.7	4037.2	4049.4	4060.0	4061.5	4037.2	4037.2	3995.3	3940.5	3898.0
65°	4335.5	4310.3	4287.5	4274.6	4246.4	4221.3	4184.8	4135.4	4064.6	3980.1	3904.0
66°	4384.9	4333.9	4304.3	4271.5	4226.6	4180.2	4136.8	4069.1	3986.2	3885.8	3785.3
67.5°	4337.0	4266.9	4197.7	4149.8	4087.4	4003.7	3927.6	3848.4	3770.1	3632.4	3538.8
70°	3899.5	3815.8	3739.7	3634.6	3535.7	3453.6	3322.7	3185.0	3071.6	2927.1	2835.0
72.5°	2895.9	2797.0	2698.0	2550.4	2406.6	2385.3	2221.0	2058.9	1972.1	1855.7	1762.1
75°	1430.4	1305.7	1128.4	1049.2	934.4	878.0	846.8	729.7	701.5	586.7	585.1
77.5°	404.1	347.0	308.1	268.6	251.9	239.7	197.8	189.5	172.0	168.9	159.1
80°	152.9	144.5	140.8	137.0	133.2	130.8	129.3	123.3	120.2	115.7	113.3
82.5°	110.4	107.3	100.5	98.2	95.1	90.5	89.8	85.9	83.7	79.2	77.6
85°	74.6	70.8	67.0	63.1	61.6	60.9	58.6	57.1	55.5	53.3	52.5
87.5°	50.2	46.4	41.8	40.3	39.6	40.3	41.1	39.6	38.8	37.2	36.5
90°	15.3	17.6	16.8	16.8	18.3	16.6	16.4	17.0	16.0	15.8	14.8
92.5°	6.5	6.4	6.3	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6
100°	24.8	24.4	24.1	23.8	23.5	23.1	22.7	22.3	21.9	21.5	21.1
102.5°	45.0	44.5	44.0	43.5	43.0	42.7	42.4	42.0	41.7	41.4	41.1
105°	68.5	68.0	67.5	67.0	66.5	66.1	65.7	65.3	64.9	64.4	64.0
107.5°	93.7	93.3	92.9	92.5	92.1	91.8	91.5	91.1	90.8	90.5	90.2



REPORT NUMBER: P226880
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL3-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	122.5	122.3	122.1	121.9	121.7	121.4	121.1	120.8	120.5	120.2	119.9	0°
112.5°	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.4	151.2	2.5°
115°	184.3	184.0	183.7	183.4	183.1	182.9	182.7	182.5	182.3	182.1	181.9	5°
117.5°	216.9	216.4	215.8	215.3	214.8	214.6	214.4	214.2	214.0	213.8	213.6	7.5°
120°	252.7	252.2	251.6	251.1	250.6	250.4	250.2	250.0	249.8	249.6	249.4	10°
122.5°	286.4	285.9	285.4	284.9	284.4	284.2	284.0	283.8	283.6	283.4	283.2	12.5°
125°	319.2	318.6	318.1	317.6	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.9	353.9	353.9	353.9	353.9	353.8	353.7	353.6	353.5	353.4	353.3	17.5°
130°	389.7	389.7	389.7	389.7	389.7	389.5	389.3	389.1	388.9	388.7	388.5	20°
132.5°	424.3	424.1	423.9	423.7	423.5	423.5	423.5	423.5	423.5	423.5	423.5	22.5°
135°	457.7	457.6	457.5	457.4	457.3	457.6	457.9	458.2	458.5	458.8	459.1	25°
137.5°	486.5	486.6	486.7	486.8	486.9	487.4	487.9	488.5	489.0	489.5	490.0	27.5°
140°	514.7	515.0	515.2	515.4	515.6	516.1	516.6	517.1	517.6	518.1	518.6	30°
142.5°	545.2	545.2	545.2	545.2	545.2	545.3	545.4	545.5	545.6	545.7	545.8	32.5°
145°	574.3	574.2	574.1	574.0	573.9	573.6	573.3	573.0	572.6	572.3	572.0	35°
147.5°	599.0	599.1	599.2	599.3	599.4	599.1	598.8	598.5	598.2	597.9	597.6	37.5°
150°	615.6	615.9	616.2	616.5	616.8	617.1	617.5	617.8	618.1	618.4	618.7	40°
152.5°	630.5	631.0	631.4	631.8	632.2	632.7	633.2	633.7	634.2	634.7	635.3	42.5°
155°	648.6	649.1	649.6	650.1	650.6	650.8	651.0	651.2	651.4	651.6	651.8	45°
157.5°	664.1	664.3	664.5	664.7	664.9	664.9	664.9	664.9	664.9	664.9	664.9	47.5°
160°	677.4	677.1	676.8	676.5	676.2	676.1	676.0	675.9	675.8	675.7	675.6	50°
162.5°	685.8	685.7	685.6	685.5	685.4	685.2	685.0	684.8	684.6	684.4	684.1	52.5°
165°	694.4	694.7	695.0	695.3	695.6	695.4	695.2	695.0	694.8	694.6	694.4	55°
167.5°	702.2	702.6	703.0	703.4	703.8	703.8	703.8	703.8	703.8	703.8	703.8	57.5°
170°	707.9	708.4	708.9	709.4	709.9	710.1	710.3	710.5	710.7	711.0	711.2	60°
172.5°	709.1	709.3	709.5	709.7	709.9	710.1	710.3	710.5	710.7	711.0	711.2	62.5°
175°	711.6	711.7	711.8	711.9	712.0	711.8	711.6	711.4	711.2	711.0	710.7	65°
177.5°	716.3	716.5	716.7	716.9	717.1	716.8	716.5	716.2	715.9	715.6	715.2	66°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P226880
 NUMBER: ISW-AF-800-LED-E1-SL3-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	110°	119.6
1352.9	1350.5	1351.3	1348.2	1347.5	1349.1	1349.8	1349.8	1347.5	1333.8	1317.9	112.5°	151.0
1333.0	1328.5	1327.7	1325.4	1321.7	1326.2	1323.9	1320.1	1315.5	1299.6	1268.4	115°	181.7
1296.5	1293.5	1289.6	1286.7	1284.3	1282.8	1282.1	1278.3	1269.9	1240.2	1187.7	117.5°	213.4
1261.5	1257.7	1253.1	1246.3	1243.3	1238.7	1238.7	1229.6	1223.4	1186.2	1108.6	120°	249.2
1227.2	1220.5	1218.1	1213.6	1205.2	1201.5	1196.1	1186.9	1177.8	1132.9	1030.9	122.5°	282.9
1201.5	1194.6	1184.7	1181.6	1172.5	1164.1	1157.3	1145.1	1135.3	1075.8	949.6	125°	317.1
1173.2	1167.9	1157.3	1150.4	1140.6	1130.7	1119.2	1104.1	1097.2	1021.8	872.0	127.5°	353.2
1150.4	1138.2	1126.1	1120.0	1107.9	1096.4	1085.0	1066.7	1053.0	968.6	789.8	130°	388.3
1123.8	1113.2	1100.2	1089.5	1072.9	1059.9	1047.0	1028.0	1011.2	914.5	706.9	132.5°	423.5
1105.5	1090.4	1076.7	1064.5	1045.5	1030.2	1012.0	991.4	974.7	862.9	615.5	135°	459.4
1094.9	1079.7	1062.1	1047.0	1024.9	1007.4	987.7	964.7	943.5	821.0	529.6	137.5°	490.5
1091.9	1073.6	1055.4	1036.4	1013.4	991.4	967.8	945.0	917.6	780.6	436.0	140°	519.1
1101.0	1078.9	1058.3	1035.5	1008.9	983.8	960.2	930.6	903.2	745.6	343.9	142.5°	545.9
1126.1	1099.5	1075.8	1050.8	1020.3	993.0	964.7	931.3	900.9	721.3	263.3	145°	571.7
1165.7	1140.6	1113.2	1088.0	1053.0	1022.6	991.4	955.6	919.1	711.5	198.6	147.5°	597.3
1245.5	1212.1	1184.0	1157.3	1117.0	1085.8	1050.0	1006.6	965.6	720.6	165.8	150°	619.0
1357.4	1315.5	1289.6	1266.1	1215.9	1181.6	1140.6	1091.1	1044.6	746.4	146.1	152.5°	635.8
1511.8	1479.9	1433.5	1396.9	1346.0	1307.9	1262.3	1202.9	1151.2	783.0	136.2	155°	652.0
1705.2	1663.2	1617.6	1580.4	1524.8	1458.6	1410.6	1339.1	1280.5	840.0	131.7	157.5°	664.9
1941.8	1891.5	1829.9	1798.7	1721.8	1670.1	1606.2	1529.3	1454.7	928.2	133.9	160°	675.5
2198.9	2144.9	2096.9	2037.6	1967.6	1909.7	1848.9	1767.5	1674.0	1095.7	143.0	162.5°	683.9
2470.5	2435.5	2389.9	2313.1	2275.0	2202.0	2124.4	2034.5	1966.8	1313.3	165.1	165°	694.2
2866.2	2828.2	2822.8	2747.5	2689.6	2623.5	2562.6	2488.0	2408.1	1699.8	216.9	167.5°	703.8
3474.9	3435.4	3390.5	3331.9	3263.4	3181.2	3105.9	3005.4	2916.4	2087.0	241.2	170°	711.4
3835.6	3762.5	3681.8	3592.8	3493.2	3391.2	3290.0	3161.4	3032.0	2110.7	217.6	172.5°	711.4
3805.1	3714.5	3611.8	3490.9	3385.9	3260.3	3151.5	2985.7	2867.7	1879.4	177.3	175°	710.5
3692.5	3568.5	3471.9	3360.8	3229.1	3116.5	3001.6	2838.1	2703.4	1723.4	162.0	177.5°	714.9
3404.2	3298.4	3164.5	3057.9	2960.5	2825.9	2717.9	2564.9	2472.1	1494.3	145.4	180°	716.1
2720.8	2574.8	2461.4	2378.5	2268.2	2146.5	2050.5	1921.9	1839.8	989.1	125.5		
1584.9	1548.3	1421.3	1349.8	1282.8	1184.0	1107.9	1046.2	938.1	479.4	111.1		
488.5	454.2	449.7	382.0	404.1	345.5	336.3	305.9	305.9	184.1	87.5		
156.0	152.9	146.9	138.5	135.4	135.4	131.7	130.8	124.8	98.9	65.5		
110.4	108.0	105.8	103.5	102.0	102.7	99.6	98.2	96.7	71.5	51.8		
76.1	73.8	69.3	69.3	67.7	67.0	67.7	64.7	63.9	50.2	43.4		
51.8	50.9	50.2	49.4	48.7	48.0	47.2	44.9	43.4	35.0	30.5		
34.3	28.9	28.1	24.3	23.6	22.8	21.3	22.8	25.1	25.1	19.7		
15.3	14.4	14.9	14.7	13.3	14.0	14.0	12.5	12.5	14.7	16.1		
6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
8.5	8.4	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.2		
20.7	20.3	19.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23.5		
40.8	40.5	40.2	39.9	39.7	39.5	39.3	39.1	38.9	39.9	43.0		
63.6	63.2	62.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	66.5		
89.9	89.6	89.3	89.0	88.8	88.6	88.4	88.2	88.0	89.0	92.1		

'226880
 ISW-AF-800-LED-E1-SL3-ULG

REPORT NUMBER: P226880
 CATALOG NUMBER: ISW-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
119.3	119.0	118.7	118.9	119.1	119.3	119.5	119.7	118.7	121.7	0°	1348.2	1348.2
150.8	150.6	150.4	150.4	150.4	150.4	150.4	150.4	150.4	152.4	2.5°	1304.2	1292.0
181.5	181.3	181.1	181.3	181.5	181.7	181.9	182.1	181.1	183.1	5°	1234.9	1207.5
213.2	213.0	212.8	213.0	213.2	213.4	213.6	213.8	212.8	214.8	7.5°	1141.3	1088.0
249.0	248.8	248.6	248.6	248.6	248.6	248.6	248.6	248.6	250.6	10°	1034.0	957.2
282.7	282.5	282.3	282.5	282.7	282.9	283.2	283.4	282.3	284.4	12.5°	922.9	824.8
317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°	819.5	689.4
353.1	353.0	352.9	353.3	353.7	354.1	354.6	355.0	352.9	353.9	17.5°	710.6	550.1
388.1	387.9	387.7	387.9	388.1	388.3	388.5	388.7	387.7	389.7	20°	606.4	415.4
423.5	423.5	423.5	423.7	423.9	424.1	424.3	424.5	423.5	423.5	22.5°	488.5	291.4
459.7	460.0	460.3	460.5	460.7	460.9	461.1	461.4	460.3	457.3	25°	358.3	211.5
491.0	491.5	492.0	492.2	492.4	492.7	492.9	493.1	492.0	486.9	27.5°	255.6	168.9
519.7	520.2	520.7	521.1	521.5	521.9	522.3	522.7	520.7	515.6	30°	191.0	142.3
546.1	546.2	546.3	546.7	547.1	547.5	547.9	548.3	546.3	545.2	32.5°	152.9	123.3
571.4	571.1	570.8	571.2	571.6	572.0	572.4	572.9	570.8	573.9	35°	130.1	111.8
597.0	596.7	596.4	596.8	597.2	597.6	598.0	598.4	596.4	599.4	37.5°	116.4	104.2
619.3	619.6	619.9	620.7	621.5	622.4	623.2	624.0	619.9	616.8	40°	108.8	100.5
636.3	636.8	637.3	638.3	639.3	640.4	641.4	642.4	637.3	632.2	42.5°	104.2	96.7
652.2	652.4	652.6	653.3	653.9	654.5	655.1	655.7	652.6	650.6	45°	102.0	94.3
664.9	664.9	664.9	665.9	667.0	668.0	669.0	670.0	664.9	664.9	47.5°	100.5	91.3
675.4	675.2	675.1	676.4	677.6	678.8	680.1	681.3	675.1	676.2	50°	98.9	91.3
683.7	683.5	683.3	684.6	685.8	687.0	688.2	689.5	683.3	685.4	52.5°	99.6	92.8
694.0	693.8	693.6	694.4	695.2	696.0	696.8	697.7	693.6	695.6	55°	103.5	92.8
703.8	703.8	703.8	705.0	706.2	707.5	708.7	709.9	703.8	703.8	57.5°	109.6	92.8
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	60°	114.2	94.3
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	62.5°	115.7	97.4
710.3	710.1	709.9	711.0	712.0	713.0	714.0	715.0	709.9	712.0	65°	114.2	98.9
714.6	714.3	714.0	714.8	715.7	716.5	717.3	718.1	714.0	717.1	66°	112.6	98.9
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	110.4	97.4
										70°	105.0	91.3
										72.5°	94.3	82.1
										75°	80.6	66.2
										77.5°	65.5	53.3
										80°	48.7	40.3
										82.5°	35.8	31.2
										85°	25.1	22.1
										87.5°	15.2	13.7
										90°	13.0	10.9
										92.5°	7.2	7.2
										95°	8.2	7.2
										97.5°	10.2	12.3
										100°	26.6	29.7
										102.5°	48.1	51.1
										105°	71.6	73.7
										107.5°	96.2	97.2



REPORT NUMBER: P226880

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

00-LED-E1-SL3-ULG

tinued):

135°	145°	155°	165°	175°	180°
1348.2	1348.2	1348.2	1348.2	1348.2	1348.2
1283.6	1282.8	1263.9	1260.0	1247.1	1253.9
1174.8	1161.9	1127.6	1120.7	1106.3	1102.5
1044.6	1008.9	981.5	951.1	922.2	936.6
892.5	832.4	772.3	732.7	716.8	711.5
748.0	639.9	564.6	486.9	459.6	469.4
573.0	449.7	349.2	304.3	278.4	273.9
404.1	288.4	241.9	230.6	225.3	225.3
273.9	219.9	202.4	197.0	197.0	197.8
208.5	184.8	177.3	178.0	181.1	181.9
172.7	163.6	159.8	165.1	171.2	172.0
149.1	146.9	147.6	154.5	160.5	161.3
130.8	133.2	136.2	142.3	147.6	149.1
117.9	121.7	124.0	127.9	130.8	131.7
108.8	113.3	112.6	114.9	117.1	117.9
103.5	105.8	103.5	105.0	105.0	106.5
98.9	99.6	95.9	96.7	98.2	98.2
94.3	93.6	89.8	91.3	93.6	94.3
89.8	88.3	85.2	88.3	92.1	92.8
85.9	84.5	83.0	86.7	91.3	92.1
84.5	83.0	81.4	86.7	91.3	92.1
84.5	83.0	81.4	85.2	89.8	90.5
85.2	83.7	80.6	84.5	87.5	88.3
85.9	84.5	79.2	81.4	83.0	83.7
85.9	83.0	77.6	78.4	78.4	79.2
84.5	80.6	74.6	74.6	73.8	73.8
84.5	77.6	71.5	70.0	68.4	68.4
83.7	76.8	70.8	68.4	66.2	66.2
82.1	75.3	69.3	66.2	63.9	63.9
76.8	72.3	65.5	62.4	60.1	59.3
68.4	66.2	60.9	58.6	56.3	55.5
57.8	58.6	55.5	54.0	51.8	50.9
48.7	50.2	48.7	48.0	46.4	45.6
38.8	41.8	40.3	40.3	41.1	39.6
29.7	33.5	31.9	33.5	35.0	32.7
20.6	24.3	24.3	25.1	25.9	24.3
12.9	16.0	15.2	16.0	16.0	15.2
10.2	13.5	11.3	11.8	8.9	8.2
6.1	6.1	6.1	5.1	4.1	4.1
7.2	7.2	7.2	6.1	5.1	5.1
9.2	9.2	8.2	8.2	7.2	7.2
21.5	12.3	10.2	9.2	8.2	8.2
40.9	27.6	18.4	13.3	11.3	11.3
64.4	49.1	36.8	27.6	22.5	21.5
90.0	74.7	59.3	50.1	43.0	41.9

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	123.8	122.8	116.6
112.5°	153.4	151.4	146.3
115°	186.2	183.1	178.0
117.5°	219.9	215.8	209.7
120°	255.7	251.6	248.6
122.5°	289.5	285.4	283.4
125°	322.2	320.2	317.1
127.5°	353.9	352.9	347.8
130°	389.7	385.7	380.5
132.5°	425.5	420.4	414.3
135°	458.3	453.2	447.0
137.5°	485.9	483.9	478.7
140°	513.5	511.5	508.4
142.5°	545.2	539.1	537.0
145°	574.9	568.8	563.6
147.5°	598.4	593.3	588.2
150°	613.8	610.7	606.6
152.5°	628.1	625.0	624.0
155°	645.5	640.4	642.4
157.5°	662.9	658.8	659.8
160°	679.2	673.1	670.0
162.5°	686.4	682.3	678.2
165°	692.5	687.4	688.4
167.5°	699.7	693.6	700.7
170°	704.8	701.7	706.9
172.5°	707.9	704.8	705.8
175°	711.0	705.8	705.8
177.5°	715.0	709.9	711.0
180°	716.1	716.1	716.1



-SL3-ULG

145°	155°	165°	175°	180°
104.3	89.0	75.7	69.6	67.5
137.1	123.8	108.4	101.3	101.3
171.9	162.6	150.4	142.2	143.2
206.6	201.5	193.3	188.2	188.2
242.4	238.3	231.2	228.1	230.2
277.2	273.1	267.0	266.0	269.0
312.0	305.9	302.8	300.7	304.8
346.8	340.6	336.6	336.6	337.6
378.5	374.4	370.3	369.3	371.3
413.3	410.2	402.0	403.0	405.1
445.0	441.9	435.8	435.8	438.8
474.6	470.6	469.5	467.5	470.6
502.3	500.2	498.2	496.1	499.2
533.0	529.9	528.9	526.8	529.9
562.6	559.6	556.5	558.5	562.6
587.2	587.2	584.1	585.1	588.2
606.6	606.6	606.6	605.6	608.7
624.0	623.0	622.0	622.0	625.0
644.5	641.4	639.3	639.3	643.4
660.8	658.8	657.8	657.8	660.8
670.0	671.1	674.1	675.1	678.2
676.2	680.3	684.4	684.4	688.4
688.4	691.5	691.5	693.6	696.6
703.8	701.7	699.7	702.8	705.8
708.9	707.9	707.9	711.0	714.0
705.8	708.9	711.0	713.0	715.0
706.9	711.0	713.0	714.0	716.1
713.0	715.0	716.1	721.2	723.2
716.1	716.1	716.1	716.1	716.1

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