

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: P226915

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)  
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  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4960.7 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U1 - G1

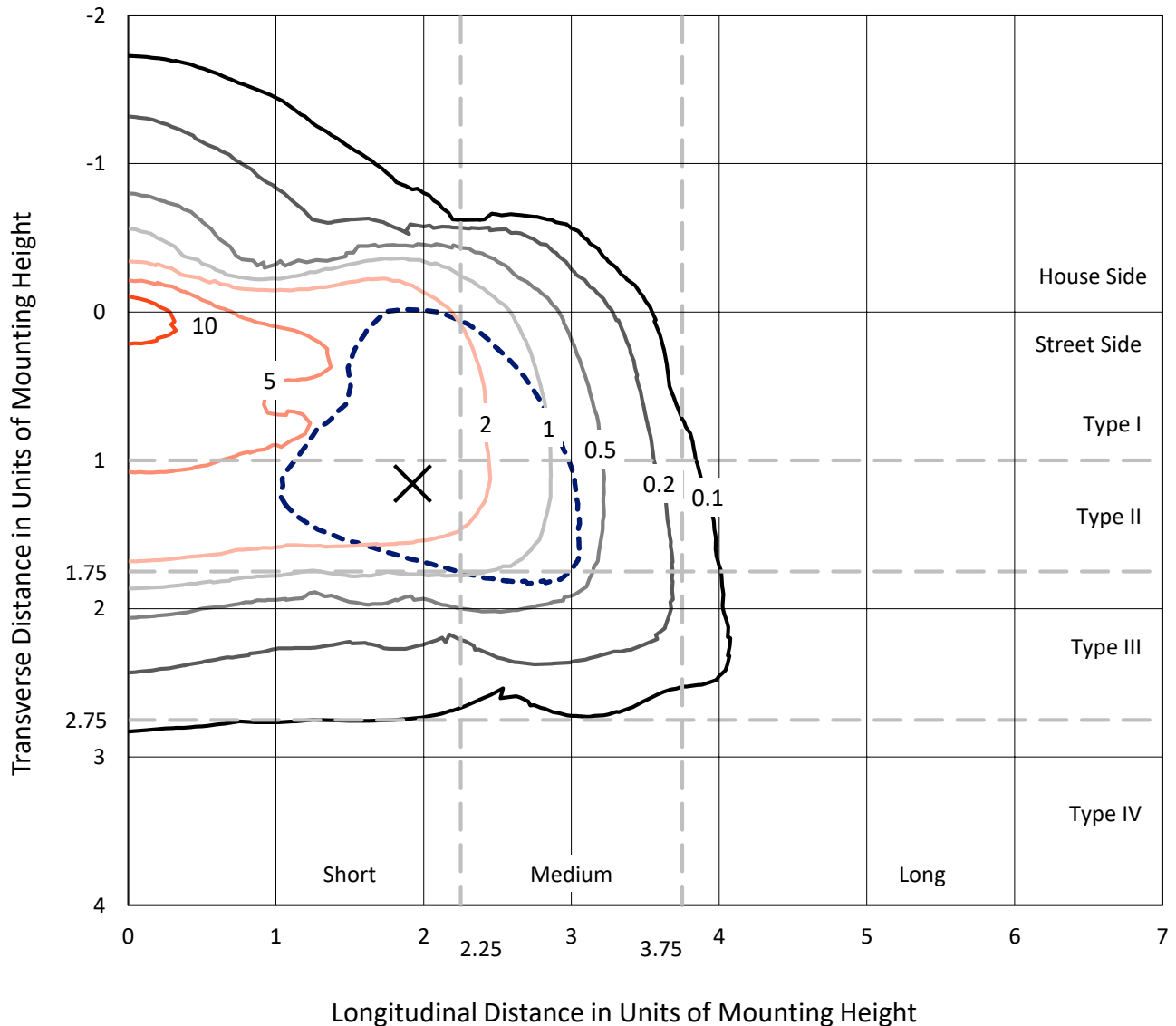
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

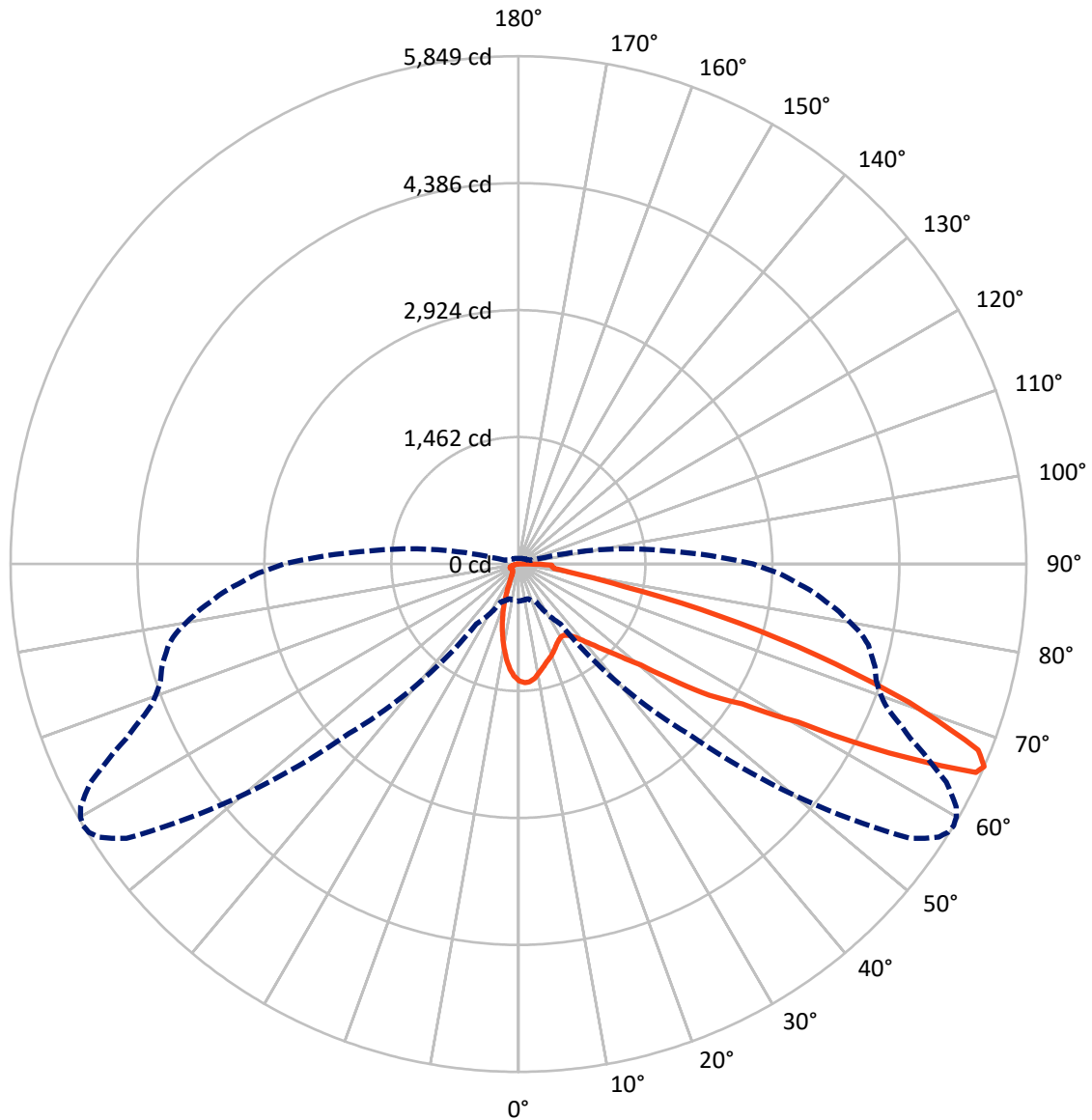
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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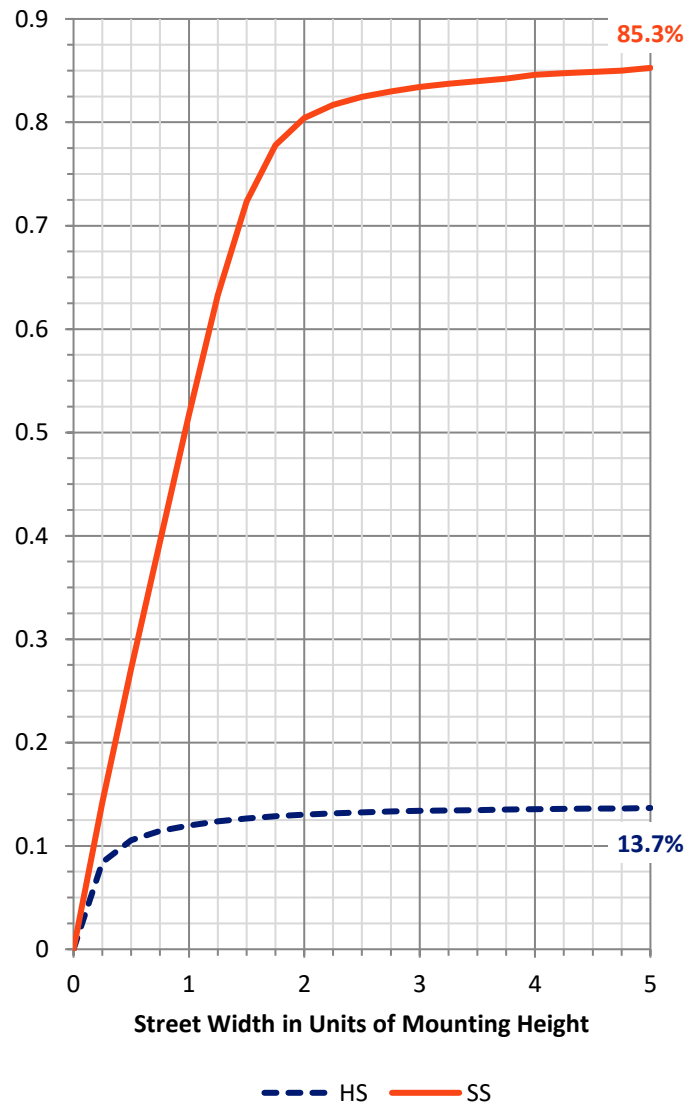
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	688.3	0.3	688.6
	% Fixture	13.9	0.0	13.9
<b>Street Side</b>	Lumens	4270.4	1.8	4272.2
	% Fixture	86.1	0.0	86.1
<b>Total</b>	Lumens	4958.6	2.1	4960.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	2.3
10°-20°	242.7	4.9
20°-30°	304.4	6.1
30°-40°	416.5	8.4
40°-50°	670.0	13.5
50°-60°	1164.2	23.5
60°-70°	1414.5	28.5
70°-80°	527.7	10.6
80°-90°	103.8	2.1
90°-100°	2.1	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4958.6	100.0
0°-180°	4960.7	100.0

**Coefficient of Utilization**



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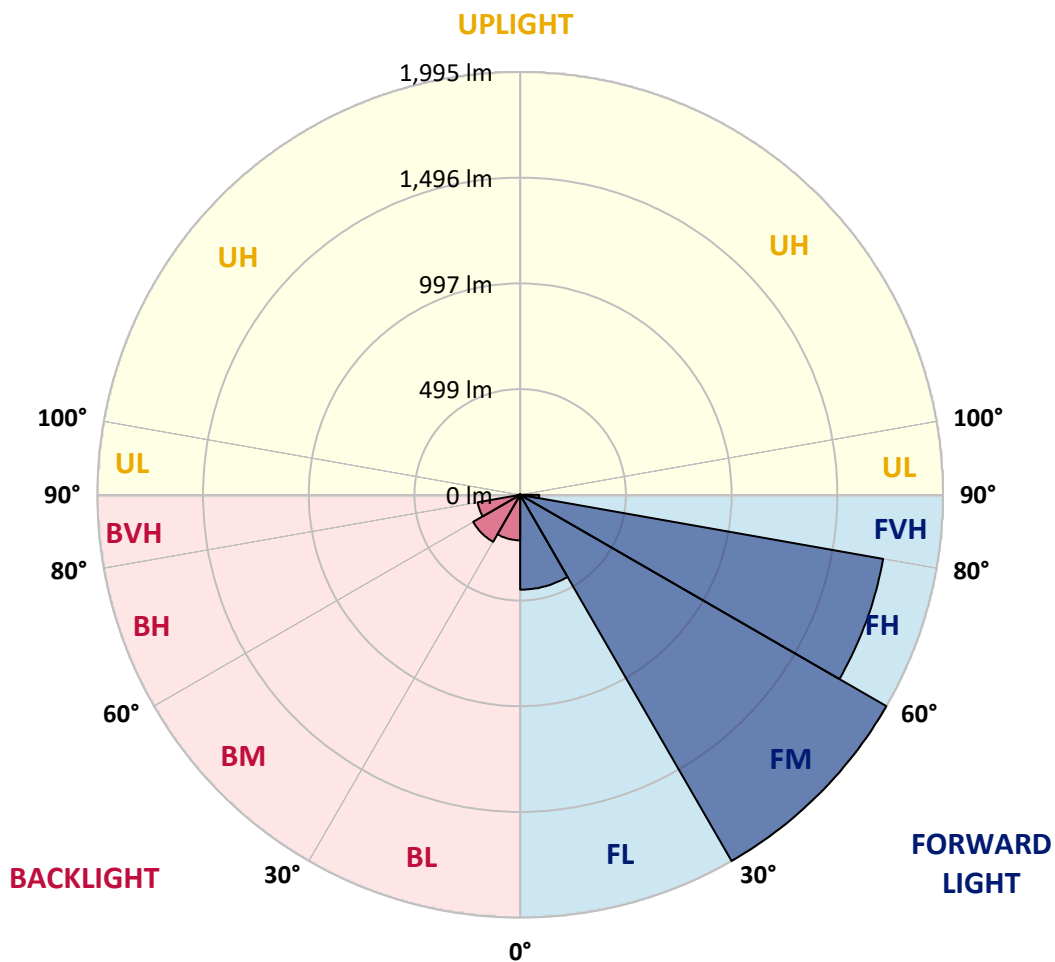
CATALOG NUMBER: ISW-AF-800-LED-E1-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.3	9.0			
FM (30°-60°)	1994.8	40.2			
FH (60°-80°)	1738.7	35.0			G1/1800
FVH (80°-90°)	89.5	1.8			G1/100
BL (0°-30°)	214.6	4.3	B1/500		
BM (30°-60°)	255.9	5.2	B1/1000		
BH (60°-80°)	203.5	4.1	B1/500		G1/500
BVH (80°-90°)	14.2	0.3			G1/100
UL (90°-100°)	2.1	0.0		U1/10	
UH (100°-180°)	0.3	0.0		U1/10	

**BUG Rating: B1-U1-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1382.6	1378.1	1386.5	1383.4	1385.7	1374.3	1372.0	1369.7	1371.3	1369.0	1369.0
5°	1350.0	1347.6	1357.6	1362.9	1367.5	1365.9	1365.1	1365.1	1365.9	1360.6	1361.3
7.5°	1254.1	1252.6	1266.3	1276.2	1298.2	1311.2	1327.9	1328.7	1330.1	1327.9	1332.5
10°	1152.3	1156.8	1168.9	1184.9	1217.6	1237.4	1269.4	1275.4	1277.7	1278.5	1279.2
12.5°	1054.9	1050.3	1065.5	1096.0	1140.1	1172.0	1212.3	1215.4	1219.2	1224.5	1229.8
15°	968.2	973.5	985.7	1017.6	1064.0	1108.9	1161.4	1164.4	1172.0	1176.6	1184.2
17.5°	908.9	908.9	922.5	952.2	995.5	1052.6	1118.8	1124.1	1130.2	1136.3	1144.6
20°	879.2	879.2	884.5	902.0	940.0	994.8	1074.6	1080.7	1091.4	1098.2	1109.6
22.5°	876.9	876.2	875.3	879.2	902.0	944.6	1027.5	1035.8	1044.9	1055.7	1065.5
25°	901.2	903.6	894.4	888.3	890.6	910.3	982.6	987.1	1004.6	1011.5	1023.7
27.5°	936.2	940.0	932.4	923.3	909.6	896.7	944.6	952.2	963.6	975.0	990.2
30°	986.4	985.7	984.9	978.9	952.2	911.9	933.2	938.6	948.4	957.5	970.5
32.5°	1040.4	1046.5	1051.1	1048.0	1020.7	952.2	949.2	953.7	962.8	968.2	976.5
35°	1110.4	1113.5	1131.0	1131.0	1103.6	1024.5	994.0	997.8	1002.4	1004.6	1010.8
37.5°	1187.2	1197.9	1223.8	1238.9	1196.3	1114.2	1064.8	1064.8	1067.0	1068.6	1072.4
40°	1276.2	1291.4	1327.2	1356.0	1328.7	1226.0	1157.6	1164.4	1162.1	1159.1	1167.4
42.5°	1379.7	1396.3	1439.7	1467.1	1451.2	1360.6	1282.3	1277.7	1284.5	1275.4	1278.5
45°	1499.7	1512.7	1556.8	1585.8	1598.7	1525.6	1445.8	1436.6	1436.6	1416.9	1425.3
47.5°	1607.8	1611.6	1654.2	1705.2	1747.0	1748.5	1635.9	1629.9	1615.4	1602.5	1599.4
50°	1708.2	1719.6	1747.0	1802.5	1890.0	1966.0	1897.6	1878.5	1862.6	1814.6	1829.1
52.5°	1882.3	1904.4	1921.9	1955.4	2058.8	2213.2	2297.6	2268.0	2264.1	2220.8	2210.9
55°	1915.1	1917.3	1975.1	2168.3	2411.7	2522.7	2684.7	2683.9	2696.1	2682.5	2669.5
57.5°	1761.4	1743.2	1839.8	2094.5	2583.6	3154.0	3104.6	3109.9	3093.9	3052.1	3039.2
60°	1372.0	1387.2	1491.5	1816.1	2459.6	3561.6	3887.9	3791.4	3860.5	3751.8	3693.2
62.5°	771.9	754.4	825.2	1166.7	2017.8	3582.9	4955.0	4965.6	4999.1	4938.2	4795.3
65°	498.2	490.5	483.8	590.1	1209.2	3134.2	5545.1	5675.9	5754.3	5786.2	5788.5
66°	428.2	422.1	413.8	482.9	842.7	2761.6	5507.2	5647.1	5771.8	5831.1	5848.6
67.5°	364.3	355.2	353.6	400.1	586.4	2142.5	5144.3	5364.1	5474.4	5628.1	5711.6
70°	278.3	273.8	287.4	345.2	450.2	1008.5	4099.4	4386.1	4576.2	4696.4	4773.9
72.5°	233.4	232.0	250.9	315.6	426.7	571.9	2869.6	3177.6	3376.0	3490.9	3597.4
75°	182.5	184.0	209.2	301.2	424.4	498.2	1667.1	1960.7	2076.3	2257.3	2395.8
77.5°	136.9	135.3	155.2	243.4	413.8	505.0	866.2	988.0	1114.9	1207.0	1240.4
80°	95.9	97.4	111.0	167.4	322.4	519.5	540.0	568.1	594.7	624.4	630.4
82.5°	63.9	64.7	82.1	114.9	223.6	495.9	504.2	491.3	470.8	444.9	416.8
85°	38.8	40.3	58.5	77.5	173.4	448.8	521.7	487.5	456.3	422.1	387.9
87.5°	19.7	22.1	35.0	45.6	102.7	221.4	543.0	517.9	475.4	422.9	384.8
90°	5.3	5.3	7.6	11.5	20.6	44.9	136.9	123.2	61.6	117.1	57.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1368.2	1369.7	1368.2	1365.9	1368.2	1365.9	1365.1	1364.4	1365.1	1363.7	1362.9
5°	1361.3	1362.9	1362.9	1358.4	1357.6	1360.6	1356.0	1357.6	1356.0	1354.5	1351.5
7.5°	1328.7	1329.4	1330.1	1327.2	1329.4	1329.4	1327.9	1327.9	1326.4	1327.2	1324.1
10°	1283.1	1286.1	1289.1	1287.6	1286.9	1293.7	1290.7	1292.9	1292.9	1290.7	1291.4
12.5°	1233.6	1238.9	1242.7	1242.7	1245.7	1253.4	1252.6	1254.1	1260.2	1260.2	1257.9
15°	1188.0	1193.3	1199.4	1203.9	1210.0	1215.4	1219.2	1225.2	1228.3	1228.3	1232.0
17.5°	1152.3	1159.8	1166.7	1168.9	1177.3	1186.4	1188.8	1196.3	1200.9	1203.2	1207.7
20°	1117.3	1125.7	1133.9	1141.6	1149.2	1159.8	1165.1	1169.7	1177.3	1181.9	1188.8
22.5°	1076.1	1089.1	1099.8	1108.9	1121.8	1131.0	1141.6	1149.2	1158.3	1165.1	1170.5
25°	1037.4	1054.9	1069.3	1078.5	1096.0	1108.9	1121.8	1133.2	1144.6	1154.5	1162.1
27.5°	1001.7	1021.4	1038.9	1053.3	1072.4	1092.9	1105.8	1124.8	1140.1	1153.8	1162.9
30°	984.2	1000.9	1019.2	1035.8	1054.9	1080.7	1102.0	1126.4	1145.4	1162.9	1176.6
32.5°	988.0	1003.2	1019.2	1033.6	1053.3	1082.3	1104.3	1132.4	1160.6	1183.5	1200.9
35°	1018.3	1032.1	1042.7	1055.7	1073.2	1095.2	1118.8	1148.5	1183.5	1213.8	1236.6
37.5°	1082.3	1086.1	1096.7	1106.6	1115.7	1136.3	1158.3	1183.5	1223.8	1255.7	1287.6
40°	1161.4	1171.3	1181.1	1185.7	1196.3	1209.2	1219.2	1245.7	1281.6	1323.4	1358.4
42.5°	1279.2	1283.1	1284.5	1286.1	1289.8	1299.0	1313.5	1337.8	1372.8	1410.0	1448.8
45°	1411.6	1416.2	1420.7	1423.0	1417.7	1423.0	1438.2	1449.6	1483.8	1518.8	1568.3
47.5°	1594.9	1581.2	1574.3	1583.4	1578.9	1590.3	1597.1	1604.0	1645.1	1686.8	1728.7
50°	1829.9	1821.5	1810.8	1811.6	1820.0	1812.4	1817.0	1842.0	1855.7	1890.7	1946.3
52.5°	2205.6	2179.7	2139.4	2121.9	2131.8	2125.7	2128.0	2133.4	2124.2	2156.9	2204.0
55°	2669.5	2636.0	2609.4	2594.2	2537.9	2533.3	2496.1	2482.4	2452.7	2483.9	2473.3
57.5°	3000.3	2979.0	2965.3	2919.7	2893.8	2842.2	2826.9	2808.7	2767.6	2788.2	2806.4
60°	3639.2	3563.1	3537.3	3457.5	3430.8	3381.4	3318.2	3287.0	3265.8	3285.5	3273.3
62.5°	4705.5	4599.8	4579.2	4389.9	4343.4	4229.4	4110.7	4094.8	4027.9	3986.0	3976.1
65°	5746.6	5595.3	5482.0	5275.2	5135.2	4972.5	4791.4	4659.1	4523.0	4454.5	4364.0
66°	5824.3	5764.1	5650.1	5529.2	5325.4	5147.4	4942.0	4799.1	4646.1	4526.0	4448.4
67.5°	5691.9	5660.0	5619.7	5537.5	5409.8	5244.0	5049.3	4866.7	4682.7	4541.2	4417.2
70°	4811.2	4846.2	4891.9	4870.6	4797.5	4732.9	4561.0	4459.0	4320.6	4135.1	4059.1
72.5°	3631.6	3725.2	3693.2	3573.1	3516.8	3471.9	3409.5	3341.1	3142.6	3119.8	3030.0
75°	2336.4	2305.2	2325.8	2179.7	2080.1	2039.0	1890.7	1829.9	1680.8	1584.2	1510.5
77.5°	1231.3	1170.5	1123.3	994.8	902.8	848.7	776.5	691.3	560.5	552.9	433.5
80°	571.2	524.8	482.2	437.3	392.4	333.1	289.0	235.8	208.4	178.7	166.5
82.5°	387.9	358.2	332.4	302.7	268.4	227.4	196.2	166.5	142.2	127.8	116.4
85°	351.4	319.5	290.5	253.3	217.5	183.3	149.9	124.0	101.2	88.2	80.6
87.5°	341.5	302.0	271.5	231.2	196.2	161.2	129.3	100.4	78.4	63.9	54.7
90°	43.4	46.4	33.5	31.9	13.7	17.5	12.9	7.6	8.4	6.0	6.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226915

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

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226915

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

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6
2.5°	1361.3	1359.1	1361.3	1360.6	1357.6	1358.4	1359.1	1356.0	1354.5	1354.5	1353.8
5°	1349.2	1347.6	1349.2	1348.5	1343.9	1343.1	1343.1	1340.9	1337.8	1335.6	1334.0
7.5°	1320.3	1321.9	1321.0	1318.8	1316.5	1316.5	1314.2	1308.9	1305.9	1302.8	1299.8
10°	1287.6	1287.6	1288.4	1287.6	1283.8	1282.3	1279.2	1276.2	1276.9	1269.4	1263.2
12.5°	1258.7	1258.7	1257.9	1256.4	1254.1	1253.4	1253.4	1244.2	1242.0	1239.7	1232.9
15°	1231.3	1232.9	1232.9	1232.9	1229.1	1229.1	1225.2	1219.2	1219.2	1212.3	1205.4
17.5°	1210.0	1212.3	1211.6	1212.3	1213.1	1208.5	1201.7	1197.9	1193.3	1189.5	1180.4
20°	1191.7	1193.3	1194.1	1194.1	1191.7	1188.8	1182.6	1176.6	1173.5	1166.0	1154.5
22.5°	1175.1	1178.1	1178.8	1178.8	1175.8	1173.5	1167.4	1158.3	1152.3	1143.1	1132.4
25°	1168.2	1172.0	1169.7	1171.3	1168.2	1162.9	1154.5	1146.9	1137.7	1126.4	1114.9
27.5°	1170.5	1175.8	1174.2	1173.5	1169.7	1166.0	1155.2	1146.1	1135.5	1121.8	1107.3
30°	1184.2	1193.3	1189.5	1186.4	1185.7	1176.6	1166.7	1153.8	1141.6	1125.7	1108.9
32.5°	1210.0	1214.5	1215.4	1213.1	1209.2	1201.7	1188.0	1171.3	1157.6	1138.5	1118.8
35°	1252.6	1257.2	1255.7	1255.7	1251.9	1239.7	1222.9	1206.3	1187.2	1166.0	1145.4
37.5°	1311.9	1320.3	1318.8	1315.7	1311.2	1296.7	1283.8	1263.2	1242.0	1213.8	1190.2
40°	1386.5	1399.4	1410.9	1408.5	1397.9	1385.0	1372.8	1349.2	1327.9	1296.7	1270.9
42.5°	1486.9	1504.4	1518.8	1529.4	1524.9	1508.1	1486.9	1476.9	1446.6	1414.6	1388.0
45°	1615.4	1651.9	1664.9	1677.7	1677.7	1667.1	1662.6	1642.8	1610.8	1568.3	1543.1
47.5°	1785.0	1833.6	1848.2	1870.2	1883.2	1871.7	1863.3	1829.9	1808.6	1750.1	1743.9
50°	1991.1	2039.8	2079.4	2105.2	2101.3	2111.3	2091.5	2072.5	2042.8	1995.0	1978.2
52.5°	2254.3	2293.0	2328.7	2344.0	2359.9	2357.7	2353.1	2340.2	2303.0	2277.1	2234.4
55°	2524.2	2556.1	2599.5	2624.7	2645.1	2641.4	2623.9	2592.7	2599.5	2545.5	2522.0
57.5°	2831.5	2866.5	2913.7	2937.2	2946.3	2992.7	2981.3	2977.5	2964.6	2945.6	2921.2
60°	3360.1	3370.0	3408.8	3468.1	3541.1	3526.6	3544.9	3557.1	3566.2	3523.7	3520.6
62.5°	3989.8	4002.0	4035.4	4047.6	4058.3	4059.8	4035.4	4035.4	3993.6	3938.9	3896.3
65°	4333.6	4308.5	4285.7	4272.8	4244.6	4219.5	4182.9	4133.5	4062.9	3978.5	3902.4
66°	4383.0	4332.1	4302.4	4269.7	4224.8	4178.4	4135.1	4067.4	3984.5	3884.1	3783.7
67.5°	4335.1	4265.1	4195.9	4148.0	4085.7	4002.0	3926.0	3846.8	3768.6	3630.9	3537.3
70°	3897.7	3814.2	3738.1	3633.1	3534.3	3452.2	3321.3	3183.6	3070.3	2925.8	2833.8
72.5°	2894.6	2795.7	2696.9	2549.4	2405.6	2384.3	2220.0	2058.1	1971.3	1855.0	1761.4
75°	1429.8	1305.1	1127.9	1048.8	934.0	877.7	846.5	729.4	701.2	586.4	584.8
77.5°	403.9	346.8	308.0	268.4	251.7	239.6	197.7	189.3	171.9	168.9	159.0
80°	152.8	144.5	140.7	136.9	133.1	130.8	129.3	123.2	120.2	115.6	113.3
82.5°	110.3	107.2	100.4	98.1	95.0	90.5	89.7	85.9	83.7	79.1	77.5
85°	74.6	70.7	66.9	63.1	61.6	60.9	58.5	57.1	55.5	53.2	52.5
87.5°	50.2	46.4	41.8	40.3	39.6	40.3	41.0	39.6	38.8	37.2	36.5
90°	6.0	8.4	7.6	7.6	9.1	7.6	7.6	8.4	7.6	7.6	6.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226915  
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL3

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P226915  
NUMBER: ISW-AF-800-LED-E1-SL3

REPORT NUMBER: P  
CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	82°	
1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	1347.6	110°	0.0
1352.2	1350.0	1350.7	1347.6	1346.9	1348.5	1349.2	1349.2	1346.9	1333.2	1317.3	1317.3	112.5°	0.0
1332.5	1327.9	1327.2	1324.8	1321.0	1325.6	1323.4	1319.5	1315.0	1299.0	1267.8	1267.8	115°	0.0
1296.0	1292.9	1289.1	1286.1	1283.8	1282.3	1281.6	1277.7	1269.4	1239.7	1187.2	1187.2	117.5°	0.0
1261.0	1257.2	1252.6	1245.7	1242.7	1238.2	1238.2	1229.1	1222.9	1185.7	1108.2	1108.2	120°	0.0
1226.7	1219.9	1217.6	1213.1	1204.7	1200.9	1195.6	1186.4	1177.3	1132.4	1030.5	1030.5	122.5°	0.0
1200.9	1194.1	1184.2	1181.1	1172.0	1163.6	1156.8	1144.6	1134.8	1075.4	949.2	949.2	125°	0.0
1172.7	1167.4	1156.8	1149.9	1140.1	1130.2	1118.8	1103.6	1096.7	1021.4	871.6	871.6	127.5°	0.0
1149.9	1137.7	1125.7	1119.5	1107.3	1096.0	1084.5	1066.3	1052.6	968.2	789.4	789.4	130°	0.0
1123.3	1112.7	1099.8	1089.1	1072.4	1059.5	1046.5	1027.5	1010.8	914.2	706.6	706.6	132.5°	0.0
1105.1	1089.9	1076.1	1064.0	1044.9	1029.8	1011.5	991.0	974.3	862.4	615.3	615.3	135°	0.0
1094.5	1079.2	1061.7	1046.5	1024.5	1007.0	987.1	964.3	943.1	820.6	529.4	529.4	137.5°	0.0
1091.4	1073.2	1054.9	1035.8	1013.0	991.0	967.4	944.6	917.2	780.3	435.8	435.8	140°	0.0
1100.5	1078.5	1057.9	1035.1	1008.5	983.4	959.8	930.2	902.8	745.3	343.8	343.8	142.5°	0.0
1125.7	1099.0	1075.4	1050.3	1019.9	992.5	964.3	930.9	900.5	721.0	263.1	263.1	145°	0.0
1165.1	1140.1	1112.7	1087.6	1052.6	1022.1	991.0	955.2	918.7	711.2	198.5	198.5	147.5°	0.0
1245.0	1211.6	1183.5	1156.8	1116.4	1085.2	1049.5	1006.2	965.2	720.3	165.8	165.8	150°	0.0
1356.8	1315.0	1289.1	1265.6	1215.4	1181.1	1140.1	1090.7	1044.2	746.1	146.0	146.0	152.5°	0.0
1511.2	1479.3	1432.8	1396.3	1345.4	1307.3	1261.7	1202.4	1150.7	782.6	136.2	136.2	155°	0.0
1704.3	1662.6	1616.9	1579.6	1524.1	1458.0	1410.0	1338.5	1280.0	839.6	131.6	131.6	157.5°	0.0
1940.9	1890.7	1829.1	1797.9	1721.1	1669.4	1605.5	1528.7	1454.1	927.8	133.9	133.9	160°	0.0
2198.0	2144.0	2096.0	2036.7	1966.7	1908.9	1848.2	1766.7	1673.2	1095.2	143.0	143.0	162.5°	0.0
2469.5	2434.5	2388.9	2312.1	2274.0	2201.0	2123.4	2033.7	1966.0	1312.7	165.0	165.0	165°	0.0
2865.0	2826.9	2821.6	2746.3	2688.5	2622.3	2561.5	2487.0	2407.1	1699.0	216.8	216.8	167.5°	0.0
3473.4	3433.8	3389.0	3330.4	3262.0	3179.8	3104.6	3004.2	2915.2	2086.2	241.1	241.1	170°	0.0
3833.9	3760.9	3680.3	3591.3	3491.6	3389.8	3288.6	3160.1	3030.8	2109.7	217.5	217.5	172.5°	0.0
3803.5	3713.0	3610.3	3489.4	3384.4	3258.9	3150.2	2984.4	2866.5	1878.5	177.2	177.2	175°	0.0
3690.9	3566.9	3470.4	3359.4	3227.7	3115.2	3000.3	2836.8	2702.2	1722.6	162.0	162.0	177.5°	0.0
3402.6	3297.0	3163.1	3056.7	2959.3	2824.7	2716.7	2563.8	2471.0	1493.7	145.3	145.3	180°	0.0
2719.7	2573.6	2460.4	2377.4	2267.2	2145.5	2049.7	1921.1	1839.0	988.7	125.5	125.5		
1584.2	1547.7	1420.7	1349.2	1282.3	1183.5	1107.3	1045.8	937.7	479.2	111.0	111.0		
488.3	454.1	449.5	381.8	403.9	345.2	336.1	305.8	305.8	184.0	87.5	87.5		
155.9	152.8	146.8	138.4	135.3	135.3	131.6	130.8	124.7	98.9	65.4	65.4		
110.3	108.0	105.7	103.4	101.9	102.7	99.6	98.1	96.6	71.5	51.8	51.8		
76.0	73.8	69.3	69.3	67.7	66.9	67.7	64.7	63.9	50.2	43.4	43.4		
51.8	50.9	50.2	49.4	48.7	47.9	47.2	44.9	43.4	35.0	30.4	30.4		
34.3	28.9	28.1	24.3	23.5	22.8	21.3	22.8	25.1	25.1	19.7	19.7		
7.6	6.9	7.6	7.6	6.0	6.9	6.9	5.3	5.3	7.6	6.9	6.9		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226915  
 ISW-AF-800-LED-E1-SL3

REPORT NUMBER: P226915  
 CATALOG NUMBER: ISW-AF-800-LED-E1-SL3

**TION (continued):**

**CANDELA DISTRIBUTION (con**

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	1347.6	1347.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	1303.5	1291.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	1234.4	1207.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	1140.8	1087.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	1033.6	956.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	922.5	824.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	819.1	689.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	710.3	549.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	606.2	415.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	488.3	291.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	358.2	211.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	255.5	168.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	190.9	142.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	152.8	123.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	130.0	111.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	116.4	104.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	108.7	100.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	104.2	96.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	101.9	94.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	100.4	91.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	98.9	91.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	99.6	92.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	103.4	92.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	109.6	92.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	114.1	94.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	115.6	97.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	114.1	98.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	112.5	98.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	110.3	97.4
										70°	105.0	91.2
										72.5°	94.3	82.1
										75°	80.6	66.2
										77.5°	65.4	53.2
										80°	48.7	40.3
										82.5°	35.7	31.2
										85°	25.1	22.1
										87.5°	15.2	13.7
										90°	3.8	3.8
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P226915

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

00-LED-E1-SL3

**tinued):**

135°	145°	155°	165°	175°	180°
1347.6	1347.6	1347.6	1347.6	1347.6	1347.6
1283.1	1282.3	1263.2	1259.5	1246.6	1253.4
1174.2	1161.4	1127.1	1120.2	1105.8	1102.0
1044.2	1008.5	981.1	950.7	921.8	936.2
892.1	832.1	771.9	732.4	716.5	711.2
747.6	639.7	564.4	486.7	459.4	469.2
572.6	449.5	349.1	304.2	278.3	273.8
403.9	288.3	241.8	230.5	225.2	225.2
273.8	219.8	202.3	197.0	197.0	197.7
208.4	184.8	177.2	178.0	181.0	181.8
172.7	163.5	159.7	165.0	171.1	171.9
149.0	146.8	147.5	154.4	160.5	161.2
130.8	133.1	136.2	142.2	147.5	149.0
117.8	121.7	124.0	127.8	130.8	131.6
108.7	113.3	112.5	114.9	117.1	117.8
103.4	105.7	103.4	105.0	105.0	106.5
98.9	99.6	95.9	96.6	98.1	98.1
94.3	93.5	89.7	91.2	93.5	94.3
89.7	88.2	85.2	88.2	92.1	92.8
85.9	84.4	82.9	86.7	91.2	92.1
84.4	82.9	81.4	86.7	91.2	92.1
84.4	82.9	81.4	85.2	89.7	90.5
85.2	83.7	80.6	84.4	87.5	88.2
85.9	84.4	79.1	81.4	82.9	83.7
85.9	82.9	77.5	78.4	78.4	79.1
84.4	80.6	74.6	74.6	73.8	73.8
84.4	77.5	71.5	70.0	68.4	68.4
83.7	76.8	70.7	68.4	66.2	66.2
82.1	75.3	69.3	66.2	63.9	63.9
76.8	72.2	65.4	62.4	60.0	59.3
68.4	66.2	60.9	58.5	56.3	55.5
57.8	58.5	55.5	54.0	51.8	50.9
48.7	50.2	48.7	47.9	46.4	45.6
38.8	41.8	40.3	40.3	41.0	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
3.1	5.3	3.1	4.6	3.8	3.1
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0

**CANDELA DISTRIBUTION (continued):**

	115°	125°	135°
110°	0.0	0.0	0.0
112.5°	0.0	0.0	0.0
115°	0.0	0.0	0.0
117.5°	0.0	0.0	0.0
120°	0.0	0.0	0.0
122.5°	0.0	0.0	0.0
125°	0.0	0.0	0.0
127.5°	0.0	0.0	0.0
130°	0.0	0.0	0.0
132.5°	0.0	0.0	0.0
135°	0.0	0.0	0.0
137.5°	0.0	0.0	0.0
140°	0.0	0.0	0.0
142.5°	0.0	0.0	0.0
145°	0.0	0.0	0.0
147.5°	0.0	0.0	0.0
150°	0.0	0.0	0.0
152.5°	0.0	0.0	0.0
155°	0.0	0.0	0.0
157.5°	0.0	0.0	0.0
160°	0.0	0.0	0.0
162.5°	0.0	0.0	0.0
165°	0.0	0.0	0.0
167.5°	0.0	0.0	0.0
170°	0.0	0.0	0.0
172.5°	0.0	0.0	0.0
175°	0.0	0.0	0.0
177.5°	0.0	0.0	0.0
180°	0.0	0.0	0.0

