

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: P271802

Luminaire Tested: **ISW-AF-1200-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-1200-LED-E1-SL2-7027
Description: IMPACT ELITE LED WEDGE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5782.8 lumens
Efficiency: N/A
Efficacy: 87.6 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 - G2

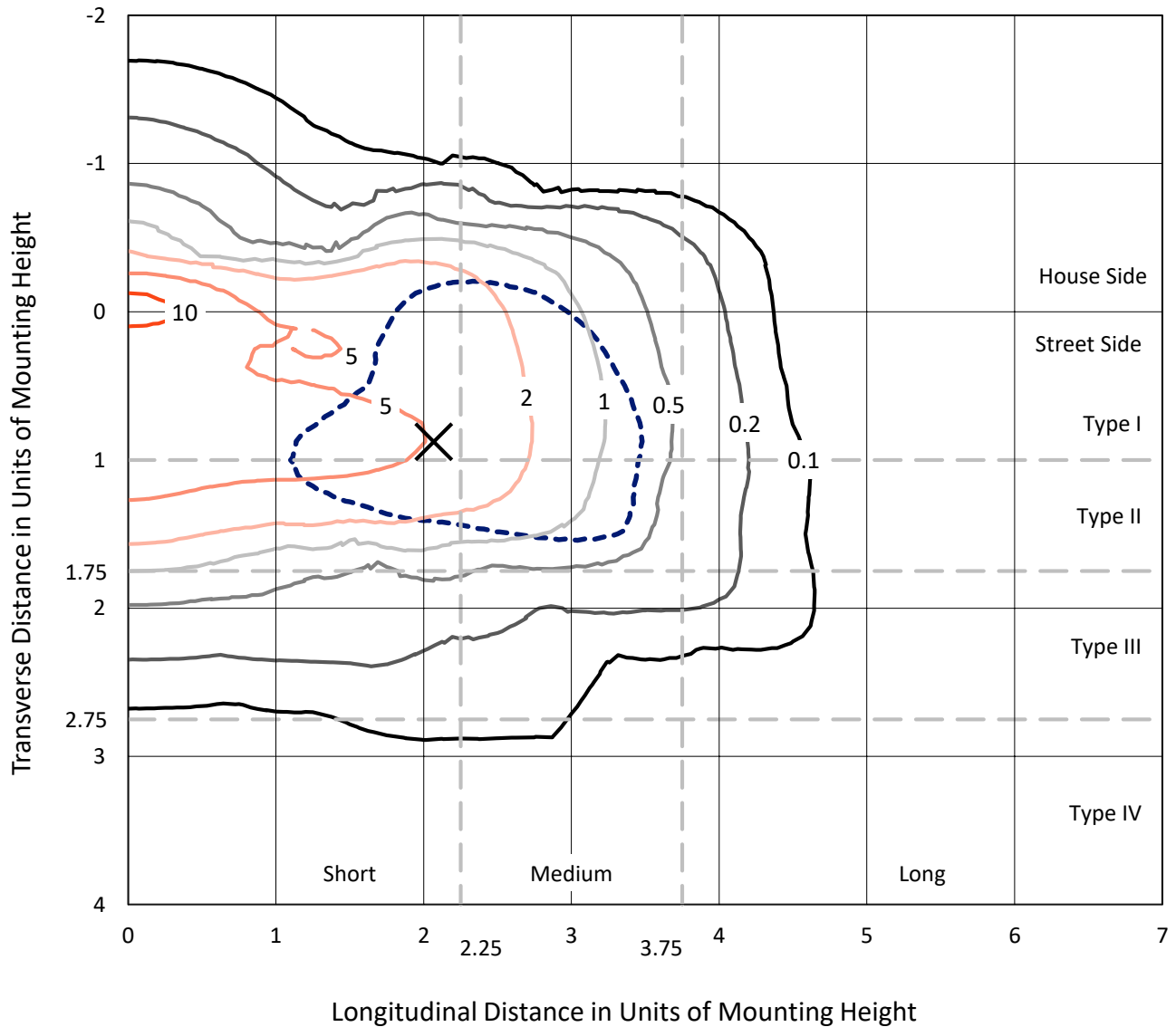
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

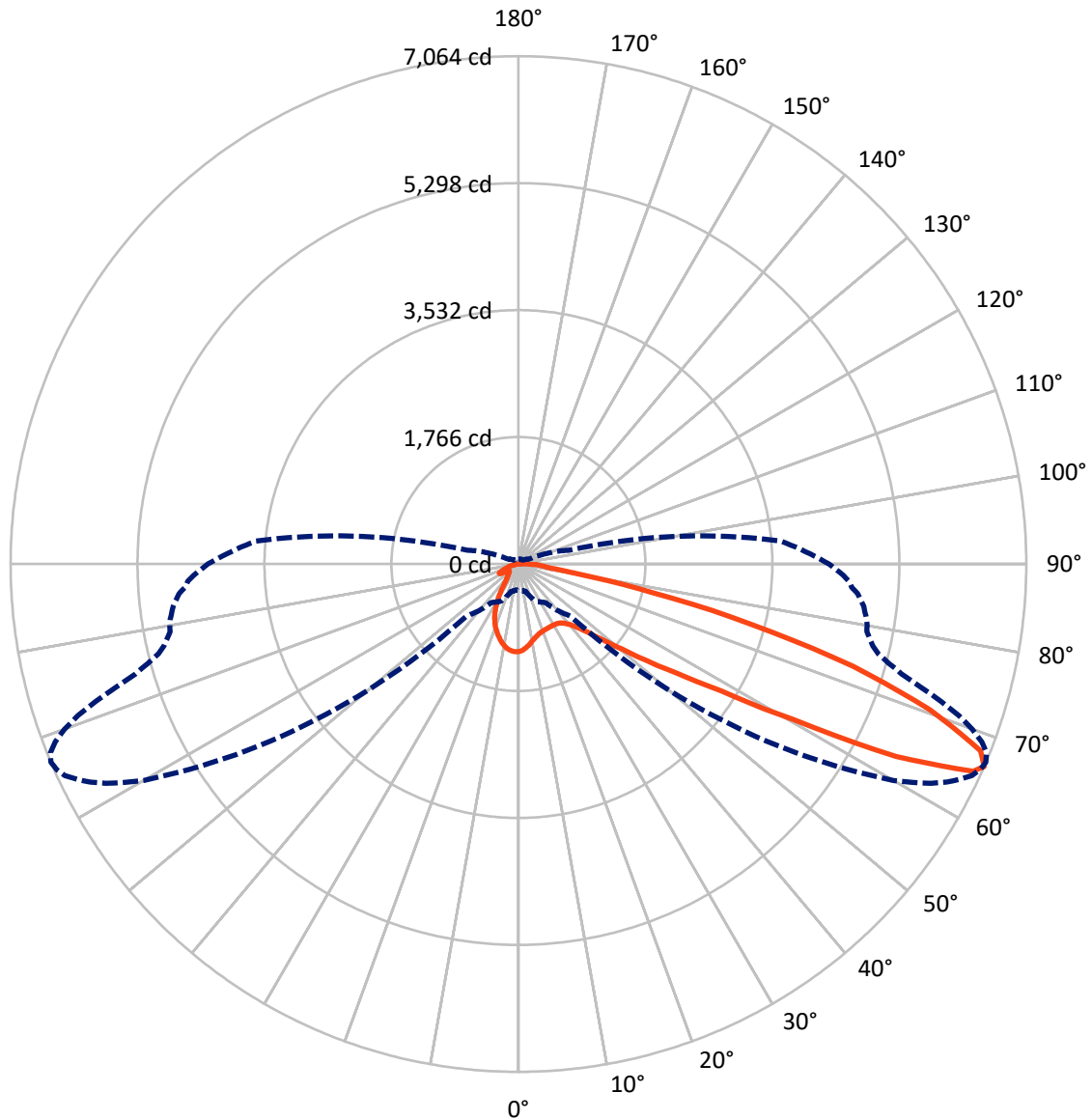


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.7	0.4	1068.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	4712.9	1.7	4714.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	5780.7	2.1	5782.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	1.8
10°-20°	251.2	4.3
20°-30°	344.5	6.0
30°-40°	492.2	8.5
40°-50°	798.0	13.8
50°-60°	1264.4	21.9
60°-70°	1602.2	27.7
70°-80°	796.5	13.8
80°-90°	126.2	2.2
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°	5780.7	100.0
0°-180°	5782.8	100.0

Coefficient of Utilization



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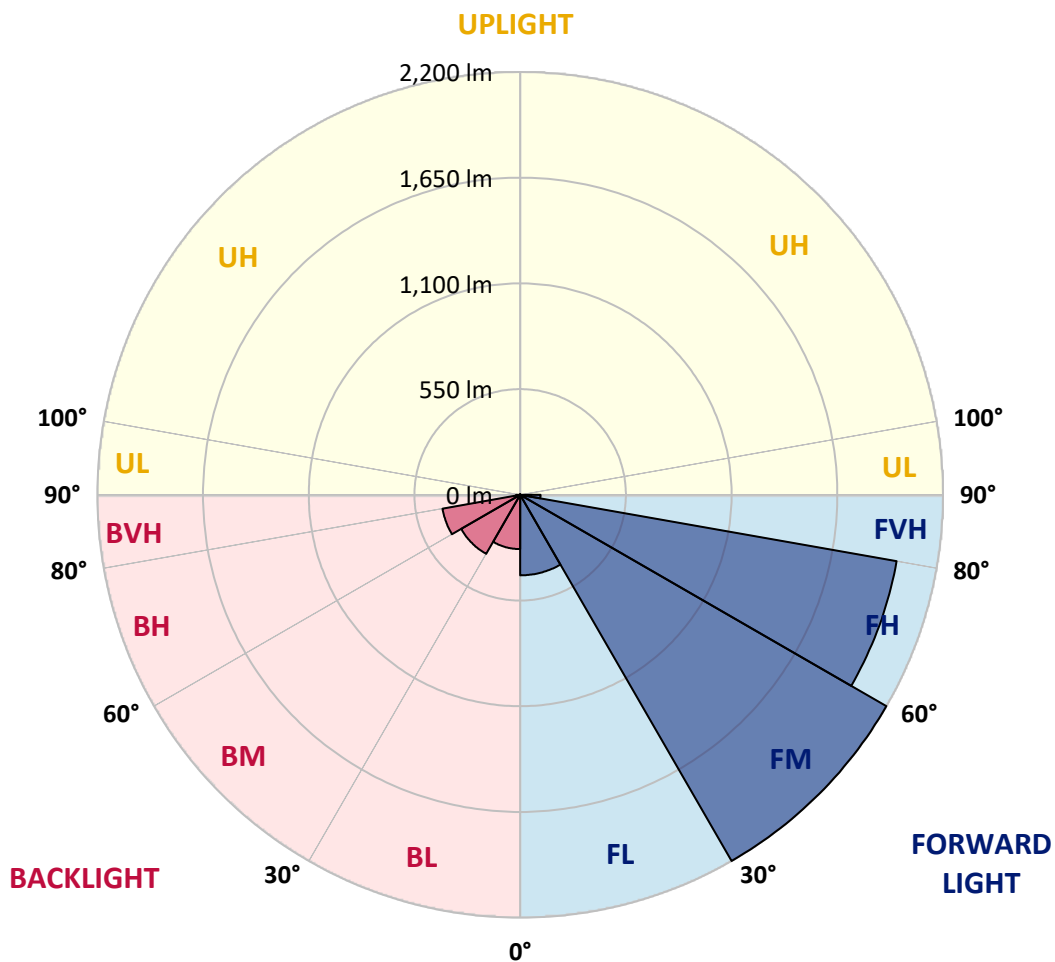
CATALOG NUMBER: ISW-AF-1200-LED-E1-SL2-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.9	7.2			
FM (30°-60°)	2199.8	38.0			
FH (60°-80°)	1988.4	34.4			G2/5000
FVH (80°-90°)	105.8	1.8			G2/225
BL (0°-30°)	282.3	4.9	B1/500		
BM (30°-60°)	354.7	6.1	B1/1000		
BH (60°-80°)	410.3	7.1	B1/500		G1/500
BVH (80°-90°)	20.4	0.4			G1/100
UL (90°-100°)	2.1	0.0		U1/10	
UH (100°-180°)	0.4	0.0		U1/10	

BUG Rating: B1-U1-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1131.1	1133.8	1148.6	1156.4	1167.7	1171.2	1184.1	1189.4	1193.8	1192.9	1192.9
5°	1029.5	1037.4	1044.3	1059.9	1076.5	1096.4	1121.6	1140.8	1144.2	1148.6	1151.2
7.5°	952.2	957.4	969.6	980.9	1001.7	1029.5	1065.2	1089.5	1094.8	1096.4	1102.5
10°	897.5	901.0	911.4	926.2	950.5	977.4	1014.7	1040.0	1047.9	1051.3	1056.5
12.5°	854.8	860.1	869.6	885.3	911.4	939.2	978.3	1003.5	1008.7	1013.0	1020.8
15°	828.0	831.4	840.2	857.5	881.0	908.7	947.0	977.4	980.9	985.2	992.2
17.5°	822.8	825.4	830.7	843.6	861.8	888.9	927.9	953.1	959.2	965.3	972.1
20°	843.6	845.3	847.1	848.8	859.3	876.7	914.8	941.9	947.0	952.2	960.8
22.5°	888.9	891.4	887.1	881.0	873.2	876.7	908.7	936.6	940.1	945.3	952.2
25°	966.9	964.4	951.3	941.9	913.9	891.4	910.5	934.0	938.3	943.5	951.3
27.5°	1059.1	1055.6	1047.9	1021.7	975.6	929.7	920.9	938.3	941.0	945.3	952.2
30°	1158.2	1159.0	1152.1	1123.4	1064.3	987.0	944.4	948.7	950.5	954.0	958.3
32.5°	1247.7	1260.6	1259.7	1258.1	1173.7	1064.3	989.6	972.1	969.6	972.1	973.9
35°	1351.1	1353.6	1377.9	1390.0	1321.5	1177.3	1055.6	1017.4	1007.0	1007.8	1006.1
37.5°	1462.2	1465.7	1507.4	1528.3	1475.3	1305.9	1143.4	1084.3	1074.7	1065.2	1058.2
40°	1623.8	1637.7	1659.3	1682.9	1656.8	1478.7	1259.0	1178.9	1154.6	1153.0	1139.1
42.5°	1865.3	1861.0	1850.6	1869.7	1838.4	1672.5	1398.8	1312.7	1294.5	1270.2	1251.1
45°	2102.6	2112.1	2066.9	2075.6	2077.3	1896.6	1601.2	1480.5	1471.0	1442.2	1421.4
47.5°	2262.4	2251.9	2191.1	2235.4	2344.0	2158.1	1835.8	1708.9	1688.9	1674.2	1661.1
50°	2271.1	2262.4	2223.2	2301.5	2533.5	2622.9	2162.5	2014.8	1986.2	1960.0	1952.3
52.5°	2059.1	2046.9	2059.9	2218.9	2602.1	3012.2	2623.8	2394.4	2371.0	2349.2	2318.9
55°	1681.2	1695.0	1756.7	1985.3	2497.0	3288.4	3531.8	2980.8	2880.1	2879.2	2804.5
57.5°	1255.4	1241.5	1287.6	1502.1	2231.1	3386.6	4365.8	4229.4	4004.4	3852.3	3668.9
60°	847.1	850.5	893.2	1003.5	1552.6	3279.7	4924.4	5399.6	5320.6	5288.4	5238.9
62.5°	587.3	592.5	631.6	735.0	907.8	2638.6	5087.8	6055.7	6197.2	6314.5	6285.9
65°	411.0	411.9	450.9	610.8	680.3	1355.4	4727.2	6142.5	6353.6	6555.2	6735.9
66°	362.3	363.2	395.3	568.2	652.5	1022.6	4414.5	6021.7	6262.4	6497.0	6683.7
67.5°	310.2	315.3	340.5	483.1	625.5	788.9	3646.4	5661.2	5913.1	6171.2	6417.9
70°	212.9	214.5	237.2	391.8	585.5	692.4	2078.2	4419.6	4768.0	5221.6	5484.0
72.5°	152.0	150.3	152.9	242.5	601.2	688.1	1092.1	2908.8	3396.2	3794.1	4078.1
75°	135.6	131.2	119.9	150.3	438.7	751.5	731.5	1712.3	2083.3	2445.6	2736.8
77.5°	120.7	113.8	107.8	115.5	217.2	708.0	656.8	980.9	1170.3	1440.5	1664.6
80°	92.1	87.8	91.2	99.9	130.3	651.6	652.5	652.5	703.7	792.3	881.0
82.5°	60.8	55.7	63.4	82.6	98.2	490.8	674.2	576.0	566.5	563.0	569.1
85°	38.2	33.0	44.3	61.6	75.5	256.3	691.5	608.2	563.9	521.3	478.7
87.5°	13.9	15.6	22.5	35.7	49.6	111.2	606.4	536.1	505.7	452.7	403.1
90°	3.4	2.7	4.3	10.4	11.3	20.8	93.0	148.6	88.7	44.3	35.7
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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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
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):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1193.8	1198.1	1199.9	1198.1	1199.0	1204.2	1202.4	1205.1	1205.1	1206.7	1206.7
5°	1154.6	1158.2	1165.1	1164.2	1171.2	1173.7	1176.4	1179.8	1184.1	1186.8	1192.1
7.5°	1108.6	1115.5	1121.6	1125.0	1129.5	1138.2	1140.8	1148.6	1155.5	1162.5	1167.7
10°	1064.3	1073.8	1080.8	1083.4	1093.0	1097.3	1106.8	1112.9	1121.6	1130.3	1138.2
12.5°	1026.9	1035.7	1039.1	1047.9	1056.5	1065.2	1069.5	1080.8	1089.5	1100.9	1111.2
15°	999.2	1007.8	1014.7	1020.8	1029.5	1038.2	1045.2	1056.5	1066.8	1078.1	1087.8
17.5°	981.8	987.0	995.6	1000.9	1011.3	1021.7	1029.5	1042.6	1053.9	1063.4	1076.5
20°	968.7	974.8	982.7	990.4	1000.0	1013.0	1019.9	1033.9	1046.1	1057.3	1069.5
22.5°	961.7	967.8	975.6	983.6	994.0	1004.3	1015.6	1027.8	1040.9	1053.0	1065.2
25°	959.2	964.4	971.3	979.2	990.4	1001.7	1011.3	1025.1	1036.5	1049.5	1064.3
27.5°	960.1	963.5	971.3	978.3	989.6	1000.0	1009.5	1023.5	1036.5	1048.6	1063.4
30°	963.5	966.0	973.9	980.1	989.6	1000.0	1008.7	1023.5	1034.8	1047.9	1063.4
32.5°	975.6	979.2	982.7	987.0	995.6	1003.5	1013.8	1026.9	1037.4	1050.4	1063.4
35°	1004.3	1001.7	1004.3	1006.1	1012.2	1019.9	1027.8	1039.1	1048.6	1059.9	1073.8
37.5°	1049.5	1044.3	1046.1	1045.2	1045.2	1050.4	1058.2	1066.0	1073.8	1085.2	1099.1
40°	1132.9	1119.8	1116.4	1106.8	1104.3	1108.6	1113.8	1114.7	1124.3	1139.1	1145.1
42.5°	1240.6	1223.3	1225.8	1210.3	1206.0	1200.8	1207.6	1203.3	1209.4	1218.9	1231.9
45°	1411.0	1394.5	1377.0	1351.9	1357.1	1337.9	1332.7	1334.5	1333.6	1337.0	1352.8
47.5°	1614.3	1592.5	1581.3	1571.7	1553.3	1542.1	1527.4	1505.6	1510.9	1517.9	1531.7
50°	1911.3	1904.5	1882.7	1851.5	1847.1	1830.6	1826.3	1807.1	1800.1	1799.3	1798.5
52.5°	2308.5	2263.3	2254.6	2225.0	2202.5	2186.8	2181.5	2154.7	2127.7	2143.4	2141.6
55°	2792.3	2755.0	2707.2	2681.1	2662.9	2625.6	2616.0	2582.1	2566.5	2557.7	2536.1
57.5°	3605.5	3474.4	3376.2	3327.5	3258.9	3189.4	3165.1	3095.6	3041.8	3003.6	3006.1
60°	5023.4	4789.8	4514.3	4390.9	4105.2	4063.4	3867.0	3819.3	3701.2	3623.0	3577.8
62.5°	6265.9	6202.4	6070.4	5890.5	5603.9	5273.7	5125.1	4829.6	4598.6	4497.8	4357.9
65°	6859.3	6948.7	6985.2	6951.4	6836.7	6635.2	6457.8	6169.4	5781.9	5563.0	5291.1
66°	6828.8	6961.8	7028.7	7063.5	7021.7	6902.7	6716.8	6479.7	6179.9	5846.2	5541.3
67.5°	6606.5	6735.9	6828.8	6934.8	6934.8	6897.5	6821.9	6663.8	6451.8	6160.8	5887.0
70°	5697.7	5873.2	6037.4	6069.5	6159.9	6132.1	6191.9	6091.2	6040.8	5919.2	5772.4
72.5°	4438.7	4585.6	4726.3	4867.1	4843.6	4813.2	4807.1	4828.0	4725.4	4761.9	4723.7
75°	2952.2	3205.1	3349.3	3335.4	3344.9	3352.7	3288.4	3145.1	3256.3	3115.5	3162.4
77.5°	1794.1	1911.3	1950.5	1907.0	1850.6	1777.6	1660.2	1591.7	1493.5	1501.2	1436.1
80°	941.0	955.7	924.4	836.7	788.9	745.4	611.7	551.6	496.1	475.2	428.3
82.5°	539.5	503.9	465.7	436.1	379.6	341.4	289.3	256.3	220.6	189.5	178.1
85°	437.0	389.2	353.7	320.5	282.3	248.5	205.0	171.1	145.1	126.0	121.6
87.5°	360.6	327.5	291.1	259.8	222.4	187.7	145.1	113.0	89.5	72.1	66.9
90°	32.2	43.5	31.4	17.3	26.1	13.9	7.8	8.7	7.0	7.0	7.8
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



REPORT NUMBER: P271802

CATALOG NUMBER: ISW-AF-1200-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
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: P271802

CATALOG NUMBER: ISW-AF-1200-LED-E1-SL2-7027

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2
2.5°	1209.4	1209.4	1211.2	1212.8	1213.7	1213.7	1213.7	1215.5	1216.3	1213.7	1216.3
5°	1194.7	1199.0	1202.4	1205.1	1206.0	1208.5	1211.2	1212.8	1215.5	1215.5	1217.2
7.5°	1174.6	1182.5	1186.8	1191.2	1195.5	1199.9	1205.1	1208.5	1210.3	1213.7	1216.3
10°	1149.4	1159.0	1167.7	1174.6	1180.7	1189.4	1196.4	1201.6	1209.4	1210.3	1216.3
12.5°	1122.5	1136.4	1143.4	1156.4	1165.1	1178.0	1185.0	1192.9	1201.6	1206.0	1212.8
15°	1103.4	1115.5	1128.6	1140.8	1154.6	1170.3	1178.9	1189.4	1201.6	1211.2	1219.8
17.5°	1088.7	1105.2	1119.8	1135.5	1153.0	1169.4	1182.5	1193.8	1209.4	1214.6	1223.3
20°	1084.3	1102.5	1117.3	1133.8	1152.1	1173.7	1189.4	1201.6	1217.2	1225.8	1233.7
22.5°	1082.5	1100.0	1117.3	1137.3	1157.3	1179.8	1196.4	1212.0	1227.6	1235.5	1241.5
25°	1080.8	1099.1	1118.2	1140.8	1162.5	1185.9	1205.1	1219.8	1234.6	1242.4	1247.7
27.5°	1080.8	1100.0	1120.7	1143.4	1166.8	1192.9	1211.2	1225.0	1238.0	1245.1	1246.8
30°	1079.9	1100.0	1119.8	1145.1	1170.3	1197.2	1217.2	1230.2	1241.5	1245.9	1244.2
32.5°	1081.6	1102.5	1124.3	1149.4	1175.5	1201.6	1222.4	1237.1	1243.3	1242.4	1241.5
35°	1090.4	1109.5	1134.6	1159.8	1186.8	1211.2	1231.0	1241.5	1246.8	1245.1	1240.6
37.5°	1113.8	1132.9	1158.2	1185.9	1206.7	1234.6	1252.9	1260.6	1261.5	1256.3	1245.9
40°	1162.5	1181.6	1204.2	1234.6	1259.7	1278.8	1296.3	1305.0	1299.8	1290.1	1278.8
42.5°	1239.8	1264.2	1291.0	1315.4	1344.9	1371.0	1375.3	1380.5	1371.8	1353.6	1339.7
45°	1364.1	1378.8	1413.6	1431.8	1470.1	1483.0	1492.6	1495.2	1476.2	1461.4	1437.0
47.5°	1543.0	1571.7	1596.0	1613.4	1641.2	1658.6	1677.7	1669.1	1654.2	1629.1	1596.8
50°	1824.5	1842.7	1874.0	1905.3	1934.8	1947.0	1947.0	1938.4	1928.8	1880.2	1841.0
52.5°	2170.2	2172.0	2217.2	2254.6	2279.8	2261.6	2283.2	2261.6	2255.5	2221.6	2189.3
55°	2570.8	2554.3	2609.0	2642.1	2664.6	2686.4	2682.0	2679.5	2656.8	2618.6	2579.6
57.5°	2951.3	2999.1	3025.2	3073.9	3085.2	3099.9	3093.9	3085.2	3072.1	3050.5	3032.9
60°	3500.4	3532.6	3556.0	3565.6	3597.7	3602.1	3623.9	3588.2	3596.8	3571.8	3517.0
62.5°	4247.6	4212.9	4231.1	4231.1	4221.6	4187.7	4206.0	4219.8	4196.3	4175.5	4166.8
65°	5084.2	4972.2	4864.5	4846.3	4796.7	4785.5	4771.4	4736.8	4722.0	4685.5	4655.9
66°	5334.6	5160.8	5059.1	4996.6	4936.5	4923.6	4904.5	4867.9	4838.5	4787.2	4737.6
67.5°	5615.1	5391.0	5238.1	5149.4	5075.6	5026.9	4988.6	4936.5	4889.7	4813.2	4734.2
70°	5596.9	5411.7	5227.7	5093.0	4981.8	4881.9	4822.8	4710.7	4615.1	4505.7	4415.3
72.5°	4702.9	4669.9	4563.0	4487.4	4351.0	4298.0	4141.6	4070.4	3938.3	3796.7	3753.3
75°	3269.3	3139.8	3085.2	3054.8	2994.8	2829.8	2722.0	2745.4	2590.8	2452.6	2373.6
77.5°	1429.2	1455.3	1304.1	1236.2	1184.1	1094.8	1011.3	954.0	920.9	899.2	801.1
80°	395.3	344.9	340.5	316.2	311.0	277.1	281.5	257.2	240.7	237.2	229.3
82.5°	172.9	169.4	164.2	161.5	159.0	155.6	151.2	150.3	145.1	140.8	141.7
85°	114.6	113.8	111.2	108.7	104.2	98.2	93.9	90.4	91.2	86.9	86.0
87.5°	66.9	65.1	64.3	60.8	60.0	54.8	55.7	51.2	50.3	49.6	46.9
90°	9.5	10.4	13.0	12.1	8.7	16.5	13.9	12.1	13.0	10.4	10.4
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: P271802
 CATALOG NUMBER: ISW-AF-1200-LED-E1-SL2-7027

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
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: P271802
 NUMBER: ISW-AF-1200-LED-E1-SL2-7027

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	1217.2	110°	0.0
1218.9	1220.7	1221.5	1220.7	1222.4	1221.5	1222.4	1221.5	1217.2	1216.3	1215.5	112.5°	0.0
1220.7	1224.2	1225.0	1225.8	1224.2	1225.8	1222.4	1208.5	1192.9	1175.5	1161.6	115°	0.0
1222.4	1226.7	1229.4	1229.4	1230.2	1228.5	1215.5	1185.0	1148.6	1112.1	1084.3	117.5°	0.0
1221.5	1227.6	1230.2	1231.0	1231.0	1227.6	1196.4	1147.8	1092.1	1036.5	980.1	120°	0.0
1218.9	1224.2	1228.5	1228.5	1229.4	1217.2	1168.5	1099.1	1019.9	936.6	860.9	122.5°	0.0
1224.2	1229.4	1229.4	1229.4	1228.5	1207.6	1139.1	1038.2	932.2	819.3	707.2	125°	0.0
1231.9	1234.6	1232.8	1232.8	1229.4	1198.1	1106.0	978.3	839.3	689.9	533.4	127.5°	0.0
1238.9	1240.6	1239.8	1235.5	1231.0	1187.6	1072.0	914.8	728.1	533.4	378.0	130°	0.0
1245.9	1247.7	1243.3	1236.2	1230.2	1173.7	1031.3	834.1	602.0	364.9	250.2	132.5°	0.0
1246.8	1248.5	1240.6	1231.0	1222.4	1153.0	981.8	748.1	464.0	236.3	195.5	135°	0.0
1245.9	1244.2	1231.0	1218.9	1209.4	1127.7	927.1	641.2	309.3	178.1	170.3	137.5°	0.0
1239.8	1231.9	1221.5	1207.6	1193.8	1100.0	872.3	522.2	195.5	154.7	154.7	140°	0.0
1231.0	1223.3	1210.3	1192.1	1176.4	1072.9	809.7	400.6	156.3	142.5	144.2	142.5°	0.0
1227.6	1218.9	1199.9	1180.7	1160.7	1048.6	743.7	269.3	140.8	134.7	135.6	145°	0.0
1234.6	1219.8	1200.8	1178.9	1155.5	1027.8	675.1	187.7	132.9	126.0	127.6	147.5°	0.0
1258.1	1244.2	1221.5	1193.8	1168.5	1015.6	602.0	155.6	125.1	119.0	119.0	150°	0.0
1314.5	1296.3	1265.8	1232.8	1202.4	1023.5	537.0	141.7	119.0	113.0	113.0	152.5°	0.0
1405.8	1384.0	1348.4	1311.1	1271.1	1061.7	463.1	136.5	114.6	106.0	104.2	155°	0.0
1562.2	1533.5	1486.5	1442.2	1394.5	1127.7	388.3	132.9	109.4	101.7	98.2	157.5°	0.0
1808.0	1765.3	1709.8	1651.6	1593.4	1248.5	329.3	129.4	106.0	98.2	94.7	160°	0.0
2124.2	2095.6	2026.0	1949.6	1880.2	1489.1	295.5	126.8	103.3	93.9	91.2	162.5°	0.0
2527.4	2480.5	2425.7	2357.2	2274.6	1801.0	291.9	126.0	100.8	90.4	88.7	165°	0.0
2953.1	2934.9	2841.9	2799.3	2709.8	2216.4	355.3	127.6	99.0	87.8	85.1	167.5°	0.0
3438.7	3445.7	3358.9	3311.9	3238.1	2742.9	565.7	132.9	99.0	85.1	82.6	170°	0.0
4073.8	4085.1	3982.6	3927.0	3864.5	3332.7	888.9	141.7	101.7	82.6	79.9	172.5°	0.0
4594.3	4533.5	4467.5	4370.2	4291.0	3662.0	855.7	157.2	105.1	79.9	77.3	175°	0.0
4648.1	4604.7	4521.3	4416.2	4319.7	3663.7	747.2	162.4	106.0	79.1	76.4	177.5°	0.0
4641.3	4563.9	4469.2	4380.6	4285.8	3570.0	577.8	169.4	108.7	77.3	74.6	180°	0.0
4319.7	4211.2	4119.1	3996.5	3897.5	3194.6	355.3	168.5	105.1	72.1	70.3		
3562.0	3506.5	3397.0	3298.8	3195.5	2585.6	243.4	150.3	93.0	65.1	66.0		
2304.2	2240.6	2129.4	2073.8	2015.7	1654.2	189.5	122.5	79.1	58.2	60.8		
768.9	743.7	702.8	725.4	691.5	644.6	139.0	93.0	63.4	50.3	53.9		
230.2	225.0	232.8	219.0	231.9	196.4	91.2	65.1	48.7	43.5	47.8		
136.5	134.7	134.7	134.7	131.2	122.5	60.0	45.2	37.4	36.5	40.0		
83.5	81.7	82.6	81.7	83.5	74.6	40.9	31.4	27.8	26.9	32.2		
47.8	47.8	48.7	46.9	47.8	46.0	28.7	20.0	18.2	17.3	23.4		
11.3	11.3	8.7	7.8	8.7	12.1	7.8	6.1	5.2	4.3	7.8		
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	0.0	0.0	0.0		

'271802
 ISW-AF-1200-LED-E1-SL2-7027

REPORT NUMBER: P271802
 CATALOG NUMBER: ISW-AF-1:

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	1217.2	1217.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	1208.5	1202.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	1139.9	1123.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	1040.9	1021.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	927.9	899.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	783.7	727.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	616.9	541.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	424.9	364.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	298.0	275.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	230.2	231.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	191.1	199.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	168.5	177.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	154.7	162.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	145.1	148.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	133.8	135.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	124.2	124.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	115.5	114.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	107.8	106.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	99.9	100.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	95.6	96.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	91.2	92.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	87.8	87.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	84.4	83.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	81.7	79.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	79.1	77.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	77.3	74.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	75.5	73.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	74.6	73.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	73.8	72.1
										70°	70.3	68.6
										72.5°	65.1	64.3
										75°	60.0	58.2
										77.5°	53.0	52.1
										80°	45.2	44.3
										82.5°	38.2	36.5
										85°	30.5	28.7
										87.5°	20.8	19.1
										90°	5.2	6.1
										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: P271802

CATALOG NUMBER: ISW-AF-1200-LED-E:

200-LED-E1-SL2-7027

tinued):

175°	180°
1217.2	1217.2
1197.2	1205.1
1118.2	1115.5
1006.1	1007.0
870.5	872.3
695.1	684.6
497.8	502.2
346.7	345.8
278.0	279.7
238.1	238.1
212.0	212.0
186.8	187.7
169.4	171.1
153.8	154.7
138.1	139.0
125.1	125.1
116.4	117.3
110.3	110.3
104.2	104.2
99.0	100.8
93.9	94.7
88.7	89.5
83.5	83.5
79.1	79.1
75.5	74.6
73.0	71.2
70.3	69.5
69.5	68.6
68.6	67.7
66.9	66.0
64.3	63.4
59.1	57.3
53.9	52.1
49.6	46.9
41.7	40.0
30.5	28.7
18.2	18.2
4.3	4.3
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):

	155°	165°	175°
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

