

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: P228248

Luminaire Tested: **ISC-AF-800-LED-E1-SL3-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-800-LED-E1-SL3-7050-ULG  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5978.2 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
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

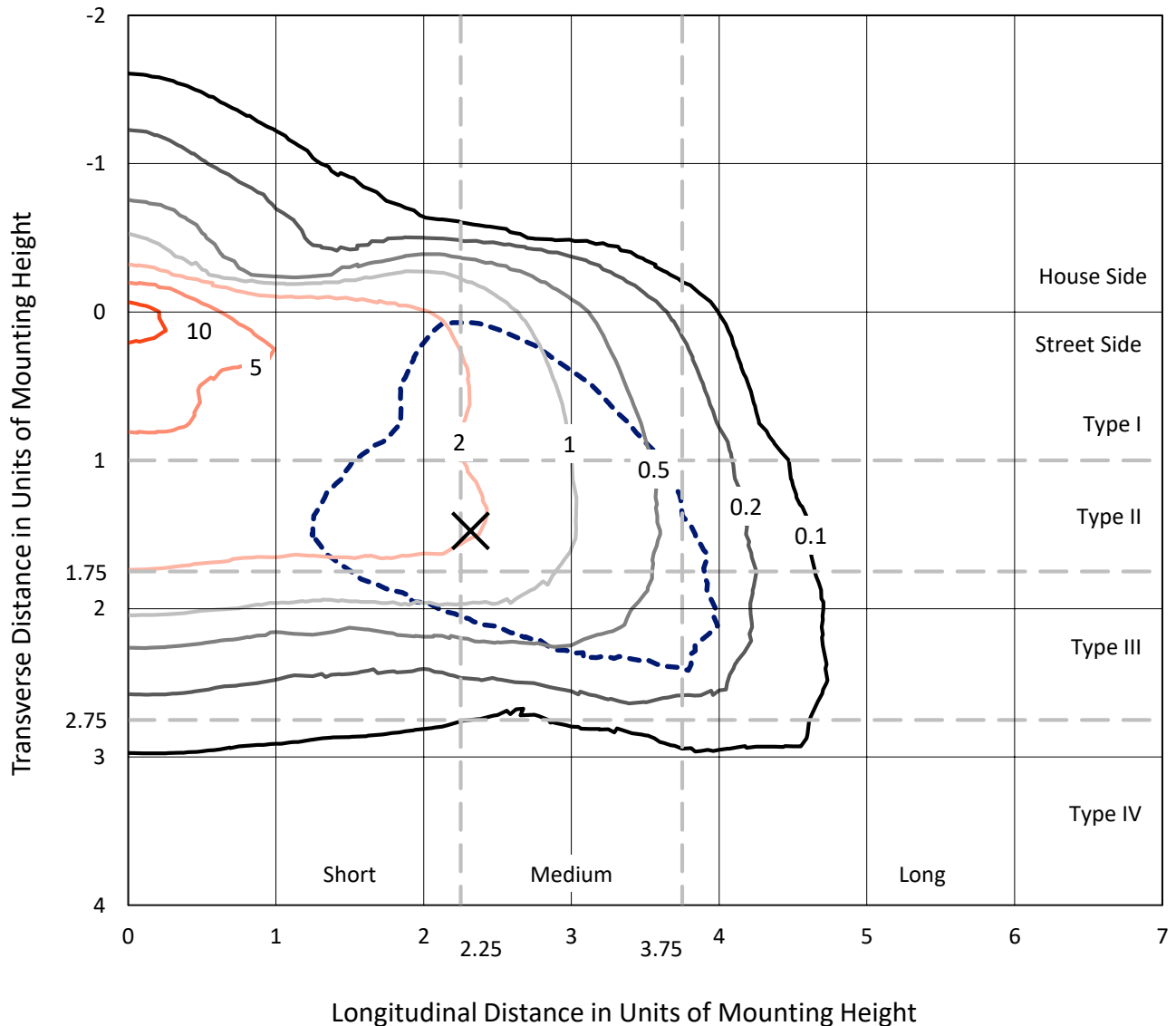


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

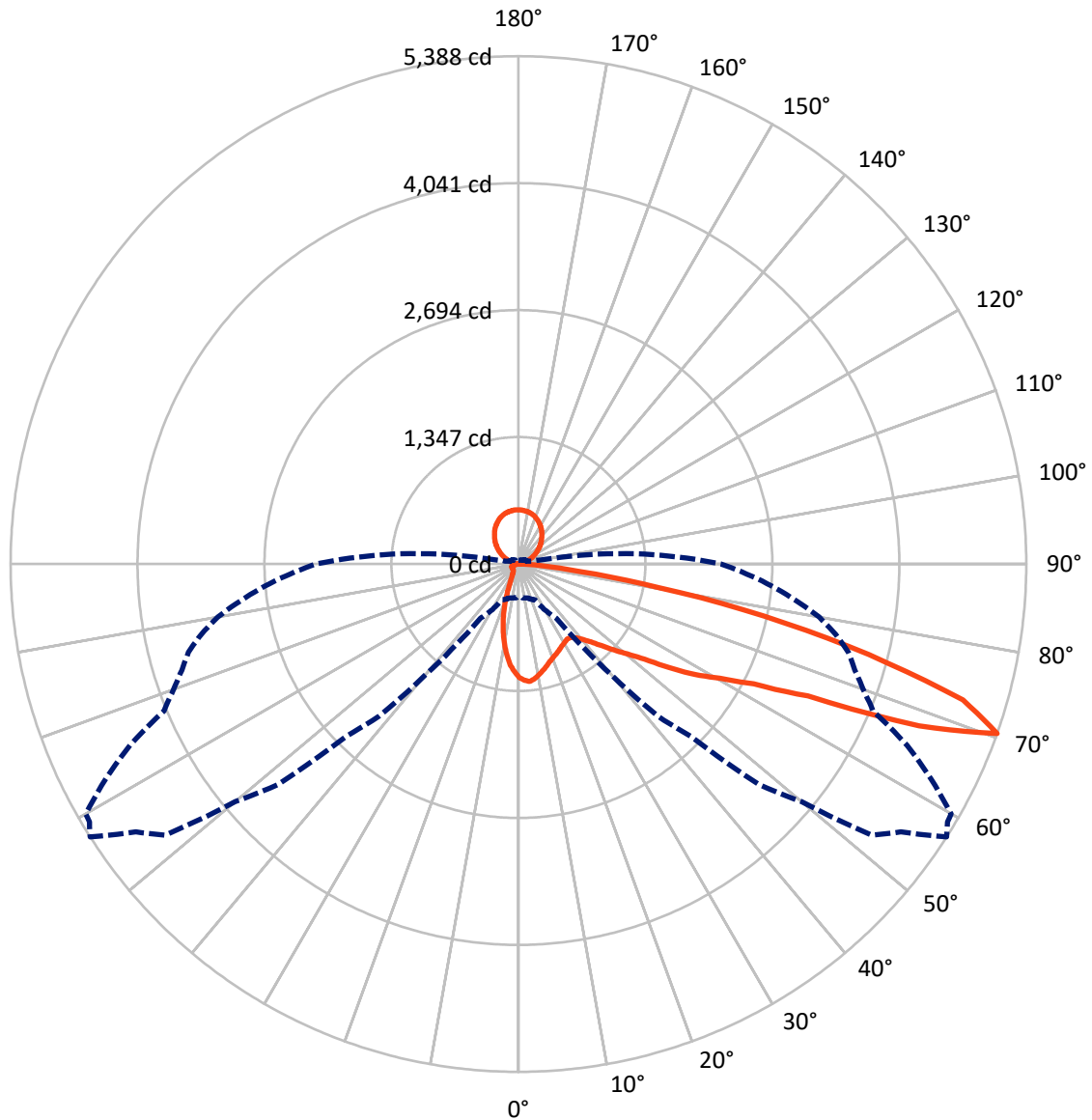


Based on 10 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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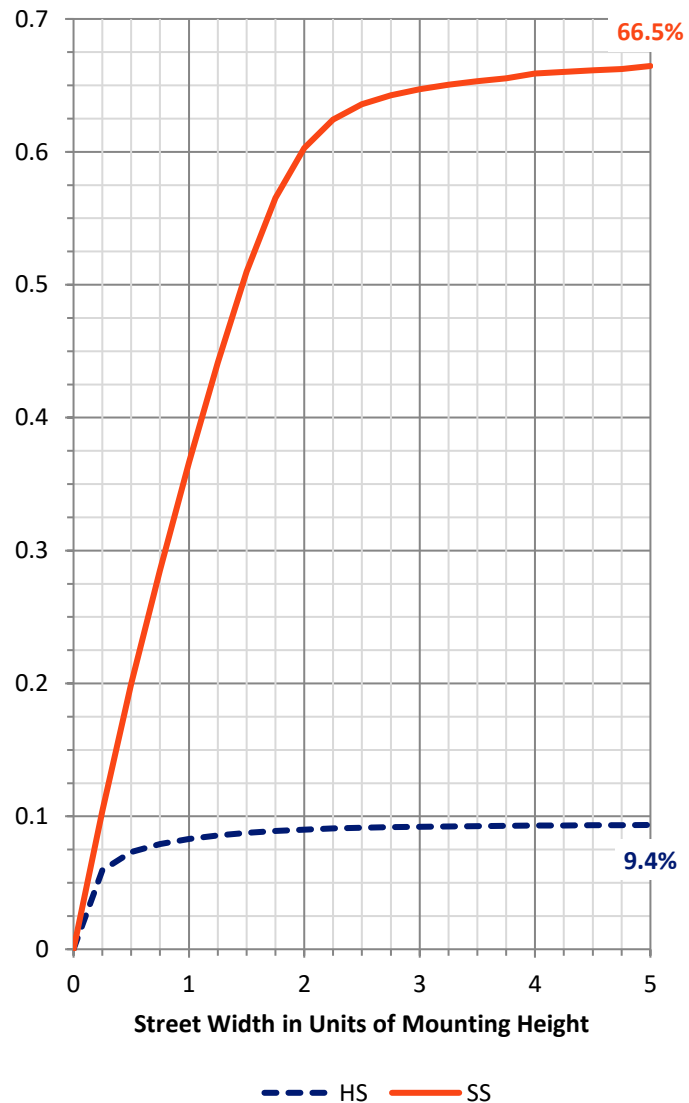
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	563.3	713.1	1276.4
	% Fixture	9.4	11.9	21.4
<b>Street Side</b>	Lumens	3988.7	713.1	4701.8
	% Fixture	66.7	11.9	78.6
<b>Total</b>	Lumens	4552.0	1426.2	5978.2
	% Fixture	76.1	23.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	1.7
10°-20°	225.9	3.8
20°-30°	283.8	4.7
30°-40°	371.0	6.2
40°-50°	556.5	9.3
50°-60°	879.8	14.7
60°-70°	1268.2	21.2
70°-80°	784.9	13.1
80°-90°	77.8	1.3
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.6
120°-130°	223.9	3.7
130°-140°	265.6	4.4
140°-150°	269.3	4.5
150°-160°	231.1	3.9
160°-170°	155.1	2.6
170°-180°	54.3	0.9
0°-90°	4552.0	76.1
0°-180°	5978.2	100.0



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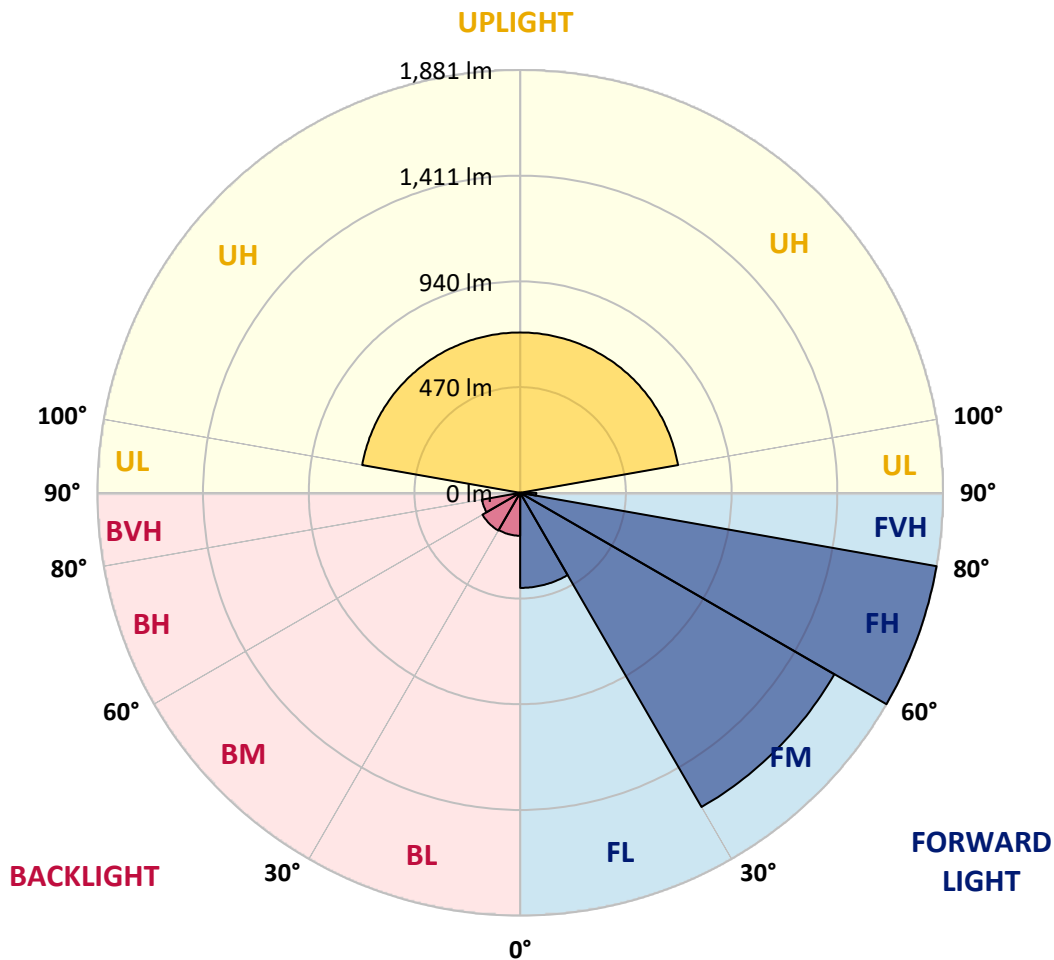
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.8	7.1			
FM	(30°-60°)	1613.6	27.0			
FH	(60°-80°)	1880.7	31.5			G2/5000
FVH	(80°-90°)	71.6	1.2			G1/100
BL	(0°-30°)	191.0	3.2	B1/500		
BM	(30°-60°)	193.7	3.2	B0/220		
BH	(60°-80°)	172.4	2.9	B1/500		G1/500
BVH	(80°-90°)	6.2	0.1			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	11.9		U4/1000	

**BUG Rating: B1-U5-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1264.6	1263.0	1259.7	1253.3	1250.1	1253.3	1250.1	1245.2	1238.8	1243.6	1240.4
5°	1261.4	1264.6	1258.1	1253.3	1261.4	1264.6	1258.1	1258.1	1251.7	1258.1	1254.9
7.5°	1198.4	1200.0	1201.6	1200.0	1221.0	1221.0	1217.8	1221.0	1222.6	1225.8	1227.4
10°	1119.2	1120.9	1124.1	1128.9	1154.8	1158.0	1159.6	1162.8	1167.7	1170.9	1180.6
12.5°	1040.1	1043.3	1049.8	1065.9	1093.4	1096.6	1101.5	1106.3	1114.4	1119.2	1137.0
15°	973.9	975.5	982.0	999.7	1040.1	1048.2	1051.4	1057.9	1074.0	1074.0	1093.4
17.5°	912.5	915.7	920.6	941.6	982.0	994.9	1004.6	1007.8	1028.8	1033.6	1056.3
20°	865.7	867.3	868.9	888.3	925.4	944.8	952.9	965.8	982.0	994.9	1014.3
22.5°	839.8	841.4	838.2	846.3	878.6	902.8	912.5	925.4	931.9	954.5	965.8
25°	841.4	843.1	835.0	830.1	846.3	872.1	880.2	893.1	889.9	922.2	922.2
27.5°	857.6	860.8	852.8	838.2	839.8	860.8	865.7	870.5	860.8	893.1	886.7
30°	889.9	893.1	883.4	872.1	854.4	867.3	867.3	867.3	849.5	877.0	865.7
32.5°	923.8	927.0	923.8	915.7	893.1	896.4	889.9	886.7	862.4	885.1	867.3
35°	973.9	975.5	977.1	977.1	944.8	951.3	933.5	923.8	901.2	919.0	894.7
37.5°	1033.6	1033.6	1044.9	1049.8	1014.3	1014.3	994.9	982.0	961.0	967.4	943.2
40°	1086.9	1091.8	1117.6	1132.2	1099.9	1086.9	1070.8	1059.5	1043.3	1043.3	1019.1
42.5°	1148.3	1158.0	1188.7	1216.1	1198.4	1179.0	1162.8	1151.5	1143.5	1141.8	1116.0
45°	1224.2	1235.5	1269.4	1295.3	1300.1	1285.6	1272.7	1261.4	1254.9	1251.7	1229.1
47.5°	1309.8	1321.1	1351.8	1382.5	1405.1	1401.9	1387.3	1376.0	1380.9	1377.6	1363.1
50°	1405.1	1411.6	1430.9	1466.5	1518.2	1529.5	1526.2	1518.2	1527.8	1527.8	1514.9
52.5°	1481.0	1485.9	1500.4	1542.4	1628.0	1653.8	1674.8	1691.0	1707.1	1716.8	1708.7
55°	1550.5	1550.5	1552.1	1605.4	1733.0	1775.0	1821.8	1855.7	1876.7	1915.5	1931.6
57.5°	1663.5	1655.4	1653.8	1710.4	1858.9	1902.5	1970.4	2018.8	2047.9	2127.0	2125.4
60°	1631.2	1634.4	1692.6	1858.9	2117.3	2156.1	2217.5	2269.2	2324.1	2382.2	2387.1
62.5°	1406.7	1414.8	1502.0	1750.7	2282.1	2484.0	2672.9	2816.7	2897.4	2949.1	2878.0
65°	985.2	1004.6	1122.5	1426.1	2101.2	2412.9	2711.7	3044.4	3299.6	3695.3	3809.9
67.5°	491.0	505.5	524.9	747.8	1569.8	2007.5	2419.4	2873.2	3212.4	3793.8	4118.4
70°	352.1	358.5	373.1	419.9	702.6	1051.4	1535.9	2185.2	2584.1	3461.1	3919.8
72.5°	272.9	279.4	298.8	365.0	465.1	513.6	610.5	998.1	1484.2	2390.3	3010.5
75°	211.6	221.3	248.7	329.5	447.4	474.8	479.7	515.2	587.9	1061.1	1687.7
77.5°	148.6	150.2	177.7	284.3	434.5	487.7	479.7	479.7	489.4	541.0	721.9
80°	98.5	100.1	117.9	197.0	381.2	444.1	491.0	468.4	470.0	478.1	491.0
82.5°	51.7	54.9	69.4	119.5	222.9	300.4	408.6	426.4	419.9	428.0	424.8
85°	14.5	14.5	24.2	45.2	109.8	116.3	180.9	247.1	251.9	285.9	305.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	6.5	14.5	16.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0





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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1243.6	1237.1	1235.5	1232.3	1233.9	1229.1	1227.4	1221.0	1221.0	1217.8	1214.5
5°	1251.7	1245.2	1251.7	1240.4	1242.0	1237.1	1229.1	1229.1	1222.6	1217.8	1208.1
7.5°	1229.1	1229.1	1230.7	1224.2	1225.8	1224.2	1214.5	1212.9	1203.2	1203.2	1191.9
10°	1187.1	1187.1	1193.5	1188.7	1190.3	1188.7	1183.8	1182.2	1179.0	1179.0	1161.2
12.5°	1138.6	1148.3	1158.0	1153.2	1153.2	1156.4	1156.4	1158.0	1156.4	1154.8	1140.2
15°	1098.2	1112.8	1122.5	1120.9	1122.5	1130.5	1133.8	1135.4	1140.2	1138.6	1125.7
17.5°	1061.1	1077.2	1085.3	1091.8	1096.6	1103.1	1112.8	1117.6	1124.1	1122.5	1109.5
20°	1027.2	1041.7	1056.3	1064.3	1065.9	1078.9	1090.2	1104.7	1107.9	1111.2	1095.0
22.5°	991.6	1004.6	1033.6	1028.8	1040.1	1064.3	1070.8	1091.8	1091.8	1103.1	1080.5
25°	961.0	962.6	1007.8	999.7	1009.4	1053.0	1057.9	1095.0	1085.3	1101.5	1075.6
27.5°	930.3	928.7	983.6	973.9	985.2	1044.9	1048.2	1099.9	1090.2	1109.5	1075.6
30°	907.7	902.8	965.8	946.4	962.6	1036.9	1038.5	1104.7	1096.6	1122.5	1086.9
32.5°	902.8	894.7	949.7	935.1	951.3	1028.8	1038.5	1122.5	1112.8	1145.1	1099.9
35°	923.8	910.9	957.7	944.8	957.7	1032.0	1046.6	1149.9	1138.6	1175.8	1130.5
37.5°	962.6	952.9	991.6	978.7	988.4	1054.6	1067.6	1185.5	1183.8	1229.1	1177.4
40°	1030.4	1020.7	1051.4	1033.6	1041.7	1103.1	1109.5	1235.5	1240.4	1295.3	1243.6
42.5°	1122.5	1106.3	1130.5	1109.5	1120.9	1175.8	1169.3	1296.9	1311.4	1387.3	1327.6
45°	1240.4	1219.4	1233.9	1211.3	1219.4	1266.2	1248.4	1379.3	1393.8	1487.5	1434.2
47.5°	1369.6	1343.7	1361.5	1332.4	1337.3	1387.3	1355.0	1477.8	1500.4	1618.3	1566.6
50°	1524.6	1490.7	1497.2	1469.7	1472.9	1523.0	1487.5	1598.9	1626.4	1757.2	1712.0
52.5°	1723.3	1674.8	1674.8	1637.7	1639.3	1689.4	1645.7	1742.7	1773.3	1905.8	1875.1
55°	1984.9	1946.2	1938.1	1899.3	1886.4	1896.1	1834.7	1902.5	1936.5	2060.8	2036.6
57.5°	2193.3	2188.4	2212.6	2157.7	2144.8	2148.0	2070.5	2075.4	2114.1	2211.0	2219.1
60°	2446.8	2454.9	2458.1	2412.9	2408.1	2362.8	2283.7	2270.8	2319.2	2385.4	2411.3
62.5°	2850.6	2842.5	2802.1	2768.2	2737.5	2616.4	2572.8	2501.7	2569.6	2606.7	2660.0
65°	3717.9	3633.9	3375.5	3398.1	3317.3	3054.1	3016.9	2873.2	2979.8	2981.4	3081.5
67.5°	4577.1	4741.8	4583.5	4586.8	4404.3	3927.8	3813.2	3527.3	3587.1	3517.6	3569.3
70°	4724.1	4955.0	5387.9	5310.3	5300.6	4934.0	4548.0	4071.6	3892.3	3743.7	3624.2
72.5°	4065.1	4296.1	4930.8	4754.7	4821.0	4932.4	4530.3	4173.3	3772.8	3583.8	3325.4
75°	2860.3	3193.0	3837.4	3745.3	3793.8	3977.9	3632.3	3590.3	3126.8	3000.8	2603.5
77.5°	1532.7	1944.5	2666.5	2553.4	2574.4	2679.4	2319.2	2244.9	1797.6	1673.2	1222.6
80°	689.6	956.1	1497.2	1371.2	1334.0	1274.3	938.4	739.7	452.2	300.4	208.3
82.5°	457.1	474.8	663.8	575.0	537.8	444.1	287.5	169.6	134.1	113.1	108.2
85°	306.9	281.0	279.4	247.1	229.3	180.9	134.1	84.0	69.4	58.1	53.3
87.5°	17.8	11.3	16.2	17.8	12.9	11.3	8.1	0.0	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.5	10.6	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.2	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.6	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.6	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.4	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.4	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.6	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.6	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.2	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.2	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.6	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.6	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.2	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.2	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.2	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.8	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.2	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.6	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.2	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.8	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.8	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CATALOG NUMBER: ISC-AF-800-LED-E1-SL3-7050-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8
2.5°	1206.5	1206.5	1204.8	1193.5	1187.1	1183.8	1172.5	1170.9	1166.1	1164.5	1164.5
5°	1204.8	1198.4	1190.3	1174.2	1158.0	1143.5	1138.6	1127.3	1119.2	1109.5	1109.5
7.5°	1182.2	1175.8	1158.0	1133.8	1112.8	1091.8	1080.5	1064.3	1051.4	1038.5	1035.3
10°	1156.4	1146.7	1122.5	1090.2	1062.7	1025.6	1011.0	990.0	975.5	956.1	936.7
12.5°	1128.9	1122.5	1093.4	1056.3	1014.3	967.4	944.8	915.7	896.4	873.7	844.7
15°	1117.6	1104.7	1067.6	1020.7	969.0	912.5	880.2	849.5	820.5	794.6	755.8
17.5°	1103.1	1086.9	1044.9	990.0	925.4	857.6	815.6	781.7	742.9	715.5	671.9
20°	1086.9	1062.7	1017.5	951.3	878.6	797.8	744.5	710.6	658.9	631.5	579.8
22.5°	1074.0	1043.3	988.4	914.1	826.9	736.5	673.5	634.7	576.6	544.3	479.7
25°	1070.8	1033.6	967.4	883.4	783.3	676.7	600.8	562.0	489.4	452.2	376.3
27.5°	1072.4	1028.8	954.5	857.6	744.5	623.4	533.0	487.7	395.7	356.9	269.7
30°	1074.0	1030.4	941.6	835.0	709.0	568.5	461.9	408.6	298.8	264.9	187.3
32.5°	1090.2	1036.9	938.4	817.2	676.7	513.6	381.2	332.7	211.6	192.2	138.9
35°	1109.5	1057.9	944.8	814.0	652.5	458.7	298.8	248.7	151.8	147.0	113.1
37.5°	1149.9	1090.2	970.7	822.1	637.9	402.2	222.9	190.6	119.5	122.7	98.5
40°	1211.3	1145.1	1012.6	846.3	636.3	345.6	164.7	148.6	103.4	106.6	90.4
42.5°	1293.7	1221.0	1077.2	898.0	644.4	292.3	132.4	127.6	95.3	98.5	87.2
45°	1401.9	1327.6	1167.7	964.2	667.0	248.7	116.3	116.3	92.1	95.3	85.6
47.5°	1539.2	1456.8	1279.1	1053.0	702.6	224.5	109.8	111.4	90.4	95.3	85.6
50°	1694.2	1603.8	1421.3	1167.7	757.5	218.0	111.4	111.4	92.1	95.3	85.6
52.5°	1855.7	1771.7	1574.7	1298.5	833.4	232.6	114.7	113.1	92.1	95.3	84.0
55°	2020.4	1944.5	1744.3	1451.9	938.4	284.3	122.7	117.9	92.1	95.3	85.6
57.5°	2185.2	2131.9	1921.9	1616.7	1069.2	377.9	155.0	137.3	101.7	103.4	87.2
60°	2370.9	2332.2	2122.2	1833.1	1254.9	523.3	227.7	172.8	121.1	114.7	93.7
62.5°	2611.6	2601.9	2435.5	2144.8	1553.7	733.2	323.0	210.0	130.8	119.5	100.1
65°	3036.3	3062.2	2903.9	2509.8	1752.3	738.1	314.9	184.1	122.7	113.1	98.5
67.5°	3462.7	3386.8	2979.8	2454.9	1581.1	491.0	200.3	143.7	108.2	105.0	92.1
70°	3446.5	3239.8	2702.0	2146.4	1248.4	266.5	145.4	119.5	96.9	96.9	87.2
72.5°	3091.2	2784.4	2209.4	1699.0	833.4	169.6	122.7	105.0	88.8	87.2	80.8
75°	2327.3	1965.5	1419.6	978.7	371.5	109.8	93.7	85.6	77.5	77.5	71.1
77.5°	1095.0	617.0	342.4	227.7	124.4	74.3	64.6	64.6	63.0	64.6	58.1
80°	148.6	134.1	114.7	100.1	75.9	51.7	46.8	48.5	46.8	48.5	43.6
82.5°	90.4	80.8	66.2	63.0	46.8	35.5	33.9	35.5	32.3	33.9	25.8
85°	43.6	38.8	30.7	29.1	24.2	21.0	17.8	21.0	16.2	17.8	11.3
87.5°	0.0	3.2	1.6	3.2	3.2	3.2	0.0	3.2	0.0	3.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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°
												110°

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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	1204.8	112.5°	136.0
1156.4	1151.5	1149.9	1143.5	1141.8	1135.4	1133.8	1127.3	1116.0	1111.2	1103.1	115°	158.0
1095.0	1086.9	1080.5	1077.2	1064.3	1057.9	1048.2	1035.3	1011.0	999.7	980.3	117.5°	181.0
1009.4	1007.8	988.4	982.0	965.8	954.5	940.0	919.0	883.4	862.4	831.8	120°	204.0
915.7	909.3	886.7	873.7	852.8	836.6	817.2	786.5	731.6	688.0	641.2	122.5°	228.0
828.5	809.1	783.3	763.9	738.1	715.5	692.9	646.0	558.8	487.7	423.1	125°	254.0
738.1	709.0	681.6	649.3	621.8	586.3	560.4	499.1	384.4	297.2	256.8	127.5°	277.0
646.0	605.6	575.0	531.4	500.7	452.2	424.8	350.5	251.9	213.2	200.3	130°	301.0
549.1	495.8	461.9	408.6	377.9	316.6	295.6	242.3	193.8	179.3	176.0	132.5°	325.0
445.8	381.2	344.0	285.9	264.9	227.7	211.6	185.7	163.1	156.7	159.9	135°	348.0
337.5	268.1	243.9	201.9	193.8	174.4	168.0	155.0	143.7	143.7	148.6	137.5°	369.0
240.6	187.3	180.9	155.0	153.4	143.7	138.9	132.4	129.2	132.4	138.9	140°	390.0
176.0	142.1	142.1	127.6	127.6	121.1	119.5	116.3	116.3	122.7	129.2	142.5°	412.0
138.9	116.3	119.5	108.2	109.8	105.0	106.6	105.0	106.6	111.4	116.3	145°	433.0
116.3	100.1	105.0	95.3	98.5	93.7	96.9	96.9	100.1	101.7	103.4	147.5°	452.0
103.4	92.1	95.3	88.8	92.1	87.2	92.1	92.1	93.7	93.7	93.7	150°	469.0
95.3	85.6	90.4	84.0	88.8	84.0	88.8	88.8	87.2	85.6	87.2	152.5°	486.0
90.4	84.0	88.8	82.4	87.2	82.4	85.6	84.0	80.8	80.8	80.8	155°	503.0
88.8	82.4	85.6	80.8	84.0	79.1	82.4	80.8	75.9	74.3	77.5	157.5°	517.0
88.8	80.8	85.6	79.1	82.4	77.5	80.8	75.9	71.1	71.1	75.9	160°	530.0
88.8	80.8	85.6	79.1	82.4	75.9	77.5	72.7	66.2	67.8	74.3	162.5°	540.0
90.4	84.0	87.2	80.8	82.4	72.7	75.9	69.4	64.6	66.2	71.1	165°	550.0
92.1	84.0	87.2	77.5	79.1	72.7	72.7	69.4	64.6	64.6	69.4	167.5°	558.0
92.1	82.4	84.0	75.9	77.5	69.4	71.1	67.8	63.0	61.4	64.6	170°	564.0
95.3	85.6	85.6	74.3	75.9	67.8	69.4	66.2	61.4	58.1	59.8	172.5°	567.0
98.5	87.2	88.8	77.5	77.5	69.4	71.1	64.6	58.1	54.9	56.5	175°	570.0
98.5	87.2	88.8	79.1	79.1	71.1	71.1	64.6	54.9	51.7	51.7	177.5°	574.0
93.7	85.6	87.2	79.1	79.1	71.1	71.1	63.0	53.3	48.5	46.8	180°	576.0
90.4	82.4	84.0	74.3	75.9	67.8	67.8	59.8	50.1	45.2	42.0		
82.4	75.9	75.9	69.4	67.8	59.8	59.8	54.9	46.8	40.4	37.1		
71.1	64.6	63.0	56.5	56.5	51.7	50.1	45.2	38.8	33.9	32.3		
58.1	50.1	50.1	42.0	42.0	37.1	38.8	33.9	29.1	27.5	25.8		
42.0	33.9	33.9	27.5	27.5	22.6	24.2	22.6	21.0	21.0	19.4		
25.8	17.8	19.4	14.5	17.8	12.9	14.5	12.9	12.9	11.3	11.3		
12.9	6.5	9.7	4.8	8.1	1.6	4.8	3.2	3.2	3.2	3.2		
1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

'228248  
 ISC-AF-800-LED-E1-SL3-7050-ULG

REPORT NUMBER: P228248  
 CATALOG NUMBER: ISC-AF-80

**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	1204.8	1204.8
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1095.0	1099.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	973.9	975.5
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	826.9	823.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	631.5	623.4
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	407.0	395.7
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	245.5	242.3
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	197.0	197.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	176.0	176.0
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	163.1	163.1
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	153.4	155.0
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	145.4	145.4
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	135.7	135.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	119.5	119.5
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	106.6	105.0
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	95.3	96.9
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	87.2	88.8
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	84.0	84.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	80.8	80.8
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	80.8	80.8
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	79.1	80.8
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	77.5	77.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	72.7	74.3
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	67.8	69.4
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	63.0	63.0
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	56.5	56.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	51.7	51.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	45.2	45.2
										70°	40.4	40.4
										72.5°	35.5	35.5
										75°	30.7	30.7
										77.5°	25.8	24.2
										80°	19.4	19.4
										82.5°	11.3	11.3
										85°	3.2	3.2
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0
										110°	102.0	101.0



REPORT NUMBER: P228248

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**CANDELA DISTRIBUTION (continued):**

	175°	180°
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

