

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: P228534

Luminaire Tested: **ISC-AF-1000-LED-E1-SLL-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-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-1000-LED-E1-SLL-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695.2 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 71.3
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

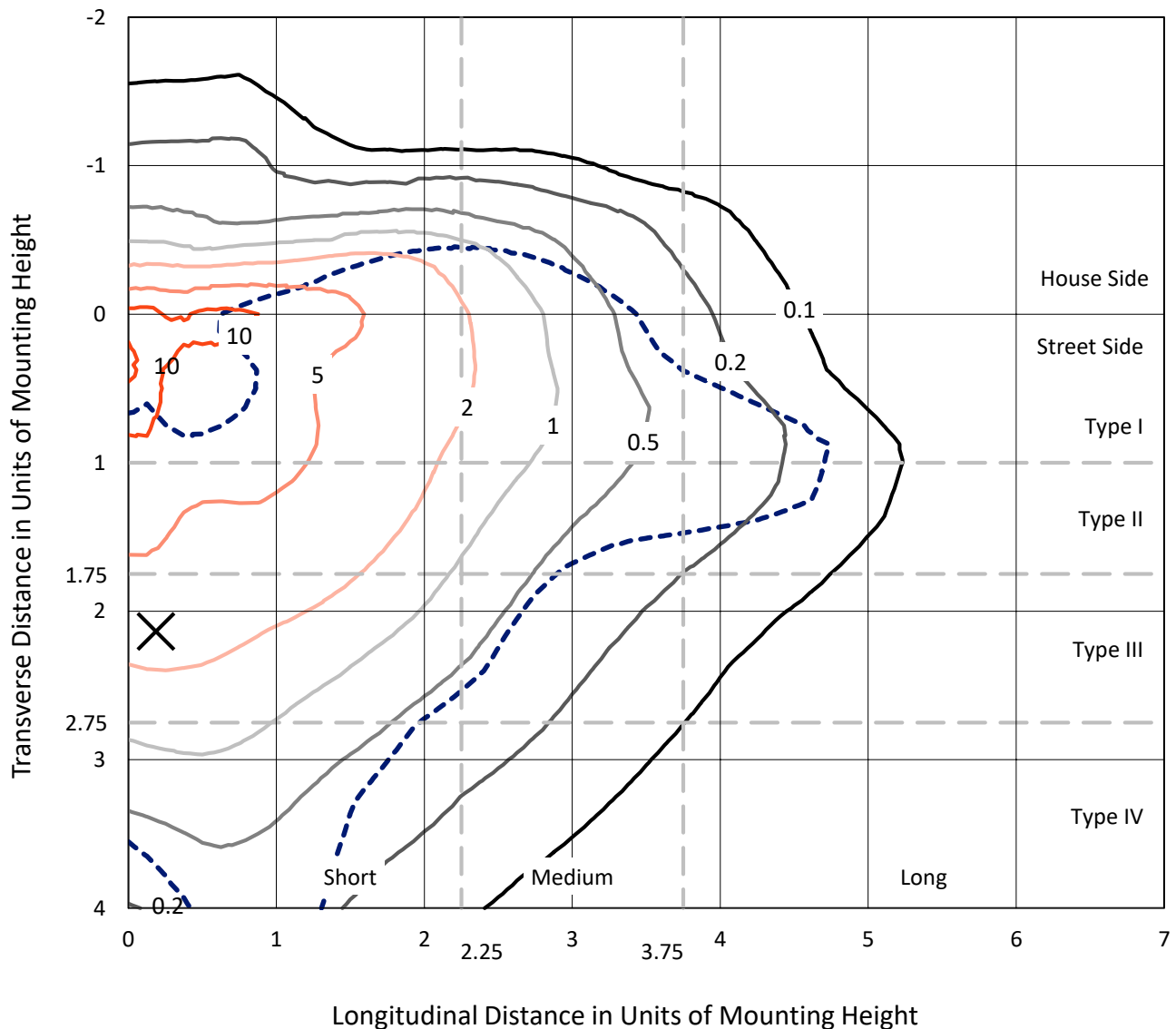


REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

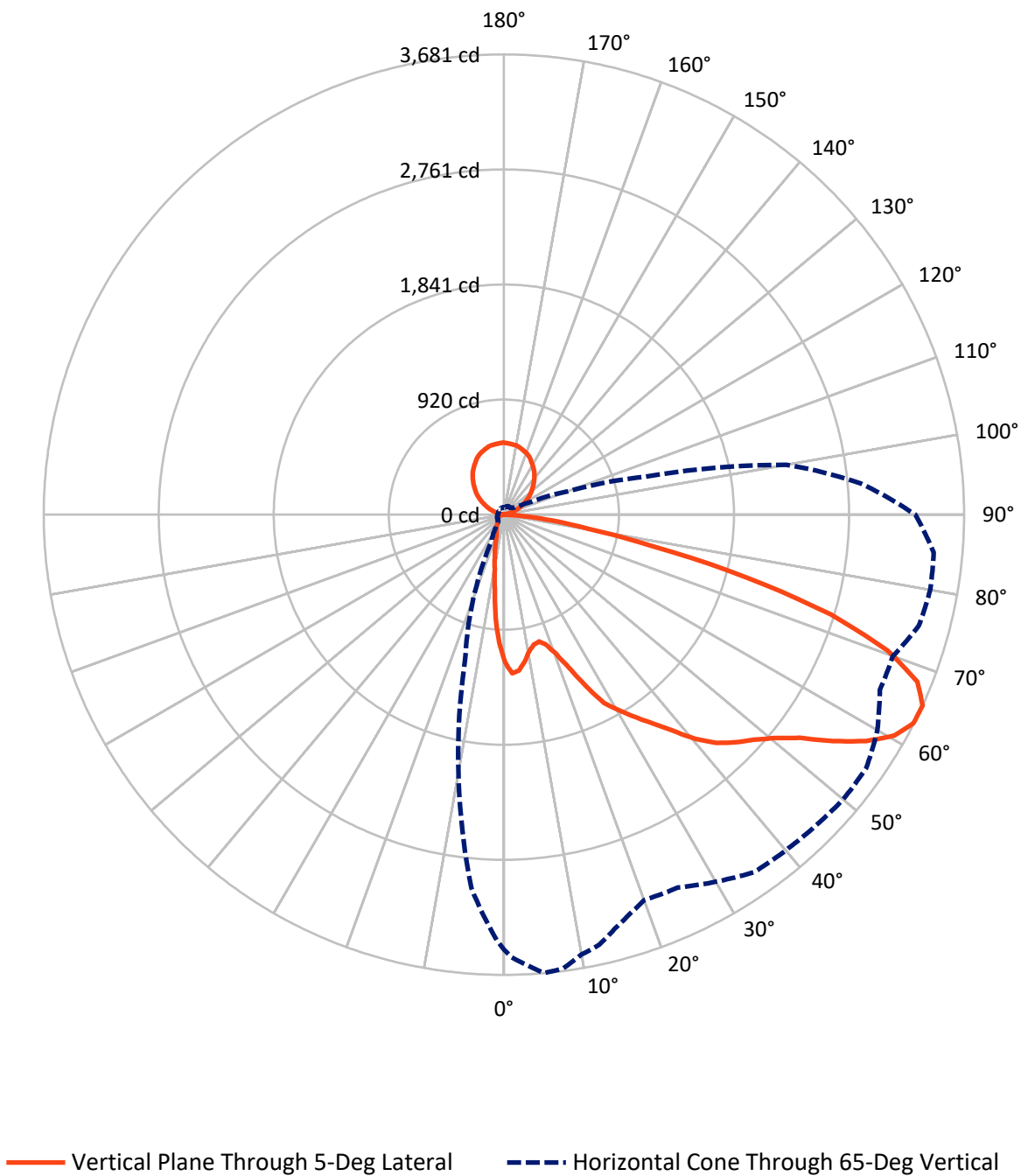


Based on 10 foot mounting height. Maximum calculated value = 16 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

Luminous Intensity Polar Plot



REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

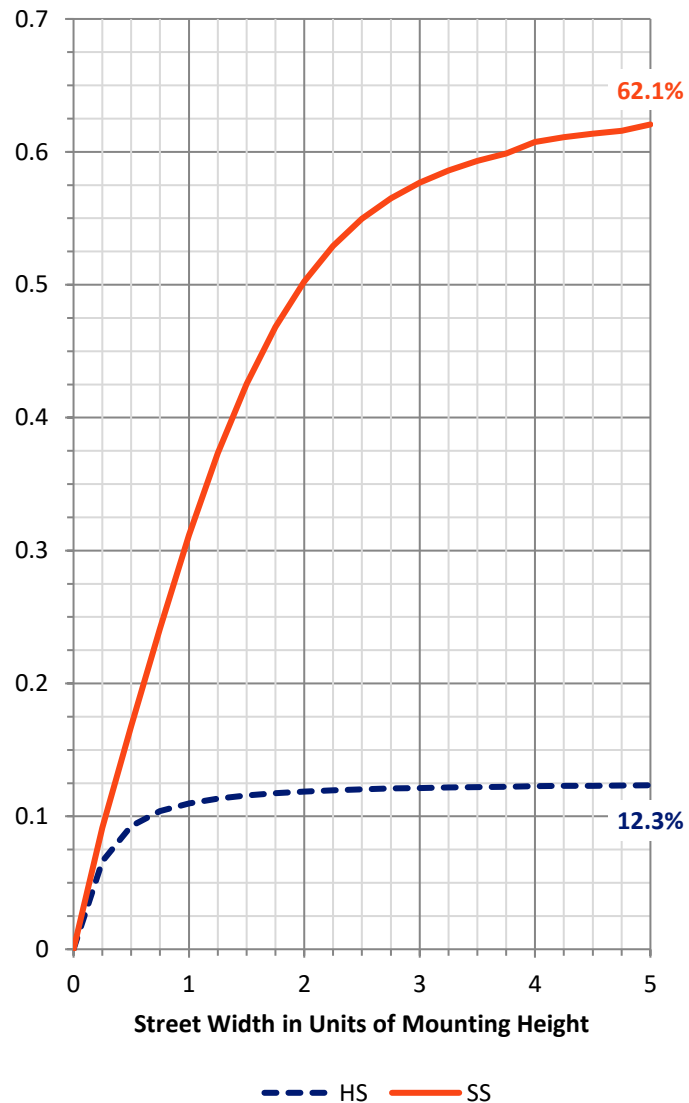
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.8	713.1	1422.9
	% Fixture	12.5	12.5	25.0
Street Side	Lumens	3559.2	713.1	4272.2
	% Fixture	62.5	12.5	75.0
Total	Lumens	4269.0	1426.2	5695.2
	% Fixture	75.0	25.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.6
10°-20°	186.9	3.3
20°-30°	271.7	4.8
30°-40°	401.9	7.1
40°-50°	585.6	10.3
50°-60°	877.8	15.4
60°-70°	1093.8	19.2
70°-80°	640.7	11.3
80°-90°	119.8	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.7
120°-130°	223.9	3.9
130°-140°	265.6	4.7
140°-150°	269.3	4.7
150°-160°	231.1	4.1
160°-170°	155.1	2.7
170°-180°	54.3	1.0
0°-90°	4269.0	75.0
0°-180°	5695.2	100.0

Coefficient of Utilization



REPORT NUMBER: P228534

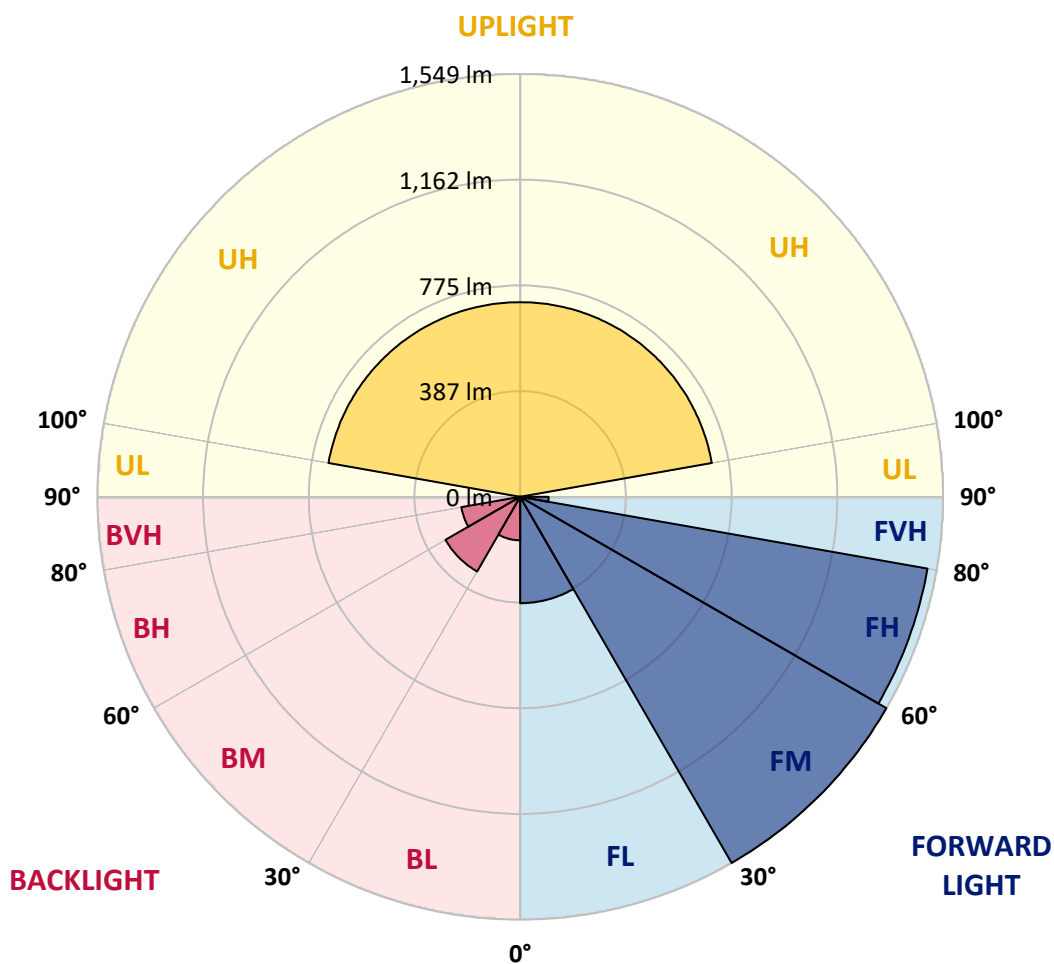
CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.0	6.8			
FM	(30°-60°)	1549.3	27.2			
FH	(60°-80°)	1515.5	26.6			G1/1800
FVH	(80°-90°)	104.4	1.8			G2/225
BL	(0°-30°)	159.4	2.8	B1/500		
BM	(30°-60°)	315.9	5.5	B1/1000		
BH	(60°-80°)	219.1	3.8	B1/500		G1/500
BVH	(80°-90°)	15.4	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	12.5		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short



REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1254.1	1250.7	1271.0	1274.4	1287.9	1287.9	1303.1	1316.6	1321.7	1333.5	1363.9
5°	1213.5	1223.7	1252.4	1281.1	1301.4	1321.7	1343.7	1370.7	1392.7	1429.9	1507.6
7.5°	1123.9	1139.1	1188.2	1216.9	1249.0	1284.5	1311.5	1343.7	1377.5	1440.0	1578.6
10°	1036.0	1047.9	1110.4	1145.9	1191.5	1228.7	1267.6	1303.1	1340.3	1418.0	1578.6
12.5°	980.3	995.5	1066.5	1100.3	1152.7	1191.5	1238.9	1281.1	1325.1	1407.9	1563.4
15°	968.4	985.3	1053.0	1095.2	1140.8	1178.0	1220.3	1264.2	1308.2	1389.3	1527.9
17.5°	1000.6	1020.8	1093.5	1140.8	1176.3	1218.6	1249.0	1291.3	1320.0	1384.2	1450.1
20°	1076.6	1100.3	1186.5	1232.1	1260.8	1287.9	1311.5	1336.9	1348.7	1363.9	1352.1
22.5°	1198.3	1227.0	1325.1	1377.5	1397.7	1418.0	1419.7	1423.1	1414.6	1374.1	1282.8
25°	1372.4	1401.1	1512.7	1563.4	1563.4	1563.4	1544.8	1531.3	1492.4	1416.3	1264.2
27.5°	1534.6	1571.8	1705.3	1737.5	1727.3	1712.1	1676.6	1642.8	1587.0	1460.3	1262.5
30°	1656.3	1693.5	1816.9	1842.2	1816.9	1779.7	1723.9	1674.9	1609.0	1482.2	1274.4
32.5°	1767.9	1811.8	1930.1	1933.5	1887.9	1845.6	1783.1	1727.3	1658.0	1522.8	1309.9
35°	1886.2	1930.1	2050.1	2026.5	1960.6	1903.1	1838.9	1789.8	1720.6	1575.2	1367.3
37.5°	2050.1	2089.0	2190.4	2134.6	2050.1	1975.8	1906.5	1842.2	1772.9	1646.2	1463.7
40°	2209.0	2264.8	2357.7	2268.2	2165.1	2065.3	1989.3	1921.7	1845.6	1742.5	1587.0
42.5°	2357.7	2410.1	2496.3	2381.4	2261.4	2161.7	2082.2	2009.6	1936.9	1852.4	1735.8
45°	2471.0	2525.1	2597.7	2476.0	2339.1	2236.0	2149.8	2085.6	2021.4	1963.9	1923.4
47.5°	2580.8	2634.9	2690.7	2558.9	2423.6	2318.9	2217.5	2158.3	2107.6	2077.2	2126.2
50°	2722.8	2760.0	2807.3	2665.3	2521.7	2401.7	2300.3	2254.6	2207.3	2217.5	2381.4
52.5°	2915.5	2947.6	2964.5	2825.9	2665.3	2528.4	2416.9	2354.4	2315.5	2374.6	2651.8
55°	3187.6	3233.2	3196.0	3059.1	2856.3	2700.8	2563.9	2489.6	2465.9	2545.3	2922.2
57.5°	3422.5	3442.8	3415.8	3280.5	3072.7	2898.6	2753.2	2675.5	2648.4	2753.2	3169.0
60°	3525.6	3551.0	3588.1	3471.5	3277.2	3104.8	2979.7	2903.6	2858.0	2979.7	3366.7
62.5°	3542.5	3584.8	3676.0	3616.9	3463.1	3334.6	3221.4	3116.6	3081.1	3174.1	3496.9
65°	3476.6	3540.8	3681.1	3659.1	3572.9	3523.9	3429.3	3348.1	3280.5	3290.7	3490.1
67.5°	3327.9	3402.2	3566.2	3556.0	3566.2	3566.2	3483.4	3415.8	3327.9	3202.8	3233.2
70°	2969.6	3067.6	3256.9	3305.9	3392.1	3392.1	3319.4	3216.3	3114.9	2858.0	2702.5
72.5°	2379.7	2445.6	2736.3	2974.6	3084.5	3040.5	2969.6	2797.2	2574.1	2291.8	2080.6
75°	1610.7	1649.6	2006.2	2442.2	2641.7	2604.5	2487.9	2273.2	2043.4	1729.0	1462.0
77.5°	897.5	948.2	1215.2	1556.6	1825.3	1820.3	1805.1	1668.2	1485.6	1225.3	1086.8
80°	527.3	544.2	684.5	933.0	1164.5	1108.7	1069.9	961.7	868.7	750.4	856.9
82.5°	322.8	305.9	388.7	567.9	687.9	664.2	598.3	557.7	513.8	481.7	569.6
85°	87.9	79.4	158.9	238.3	292.4	316.1	316.1	312.7	280.6	211.3	253.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	3.0	4.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	14.0	22.0
102.5°	28.0	28.0	28.0	29.0	30.0	31.0	32.0	33.5	35.0	38.0	45.0
105°	54.0	54.0	54.0	54.5	55.0	55.5	56.0	57.2	58.5	61.0	66.0
107.5°	78.0	77.8	77.0	77.8	78.5	79.2	80.0	81.0	82.0	84.0	88.0
110°	101.0	101.2	102.0	102.2	102.5	102.8	103.0	103.8	104.5	106.0	110.0

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	124.0	124.0	124.0	124.5	125.0	125.5	126.0	126.8	127.5	129.0	132.0
115°	146.0	146.2	147.0	147.5	148.0	148.5	149.0	149.5	150.0	151.0	154.0
117.5°	169.0	169.2	170.0	170.5	171.0	171.5	172.0	172.5	173.0	174.0	177.0
120°	193.0	193.4	195.0	195.2	195.5	195.8	196.0	196.5	197.0	198.0	201.0
122.5°	219.0	219.2	220.0	220.2	220.5	220.8	221.0	221.5	222.0	223.0	226.0
125°	244.0	244.4	246.0	246.2	246.5	246.8	247.0	247.2	247.5	248.0	251.0
127.5°	267.0	267.4	269.0	269.2	269.5	269.8	270.0	270.5	271.0	272.0	274.0
130°	290.0	290.4	292.0	292.2	292.5	292.8	293.0	293.2	293.5	294.0	298.0
132.5°	313.0	313.2	314.0	314.8	315.5	316.2	317.0	317.2	317.5	318.0	321.0
135°	336.0	336.2	337.0	337.5	338.0	338.5	339.0	339.5	340.0	341.0	345.0
137.5°	359.0	359.2	360.0	360.8	361.5	362.2	363.0	363.2	363.5	364.0	367.0
140°	382.0	382.2	383.0	383.5	384.0	384.5	385.0	385.2	385.5	386.0	388.0
142.5°	404.0	404.4	406.0	406.5	407.0	407.5	408.0	407.8	407.5	407.0	410.0
145°	425.0	425.2	426.0	426.5	427.0	427.5	428.0	428.0	428.0	428.0	431.0
147.5°	444.0	444.0	444.0	444.8	445.5	446.2	447.0	447.2	447.5	448.0	452.0
150°	461.0	461.2	462.0	462.5	463.0	463.5	464.0	464.2	464.5	465.0	469.0
152.5°	479.0	479.2	480.0	480.8	481.5	482.2	483.0	482.8	482.5	482.0	485.0
155°	499.0	499.2	500.0	500.5	501.0	501.5	502.0	501.8	501.5	501.0	503.0
157.5°	513.0	513.4	515.0	515.5	516.0	516.5	517.0	516.8	516.5	516.0	519.0
160°	525.0	525.4	527.0	527.5	528.0	528.5	529.0	529.0	529.0	529.0	532.0
162.5°	535.0	535.2	536.0	536.8	537.5	538.2	539.0	538.8	538.5	538.0	541.0
165°	546.0	546.2	547.0	547.5	548.0	548.5	549.0	548.8	548.5	548.0	552.0
167.5°	555.0	555.2	556.0	556.8	557.5	558.2	559.0	558.8	558.5	558.0	561.0
170°	562.0	562.2	563.0	563.8	564.5	565.2	566.0	565.8	565.5	565.0	567.0
172.5°	565.0	565.2	566.0	566.8	567.5	568.2	569.0	568.5	568.0	567.0	569.0
175°	567.0	567.4	569.0	569.2	569.5	569.8	570.0	569.8	569.5	569.0	572.0
177.5°	572.0	572.2	573.0	573.5	574.0	574.5	575.0	574.8	574.5	574.0	578.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1375.8	1377.5	1372.4	1384.2	1370.7	1363.9	1343.7	1343.7	1326.8	1313.2	1298.0
5°	1536.3	1546.5	1538.0	1539.7	1512.7	1485.6	1445.1	1421.4	1379.1	1333.5	1286.2
7.5°	1644.5	1661.4	1654.6	1625.9	1583.7	1526.2	1458.6	1394.4	1325.1	1250.7	1181.4
10°	1673.2	1691.8	1676.6	1622.5	1553.2	1472.1	1391.0	1304.8	1220.3	1140.8	1066.5
12.5°	1632.7	1646.2	1614.1	1554.9	1487.3	1406.2	1321.7	1247.3	1147.6	1063.1	976.9
15°	1529.6	1521.1	1517.7	1475.5	1428.2	1362.2	1282.8	1206.8	1113.8	1027.6	936.3
17.5°	1418.0	1407.9	1411.3	1394.4	1387.6	1357.2	1298.0	1233.8	1151.0	1046.2	948.2
20°	1320.0	1309.9	1314.9	1323.4	1348.7	1350.4	1340.3	1298.0	1237.2	1127.3	1007.3
22.5°	1235.5	1237.2	1254.1	1277.7	1320.0	1374.1	1416.3	1424.8	1382.5	1254.1	1103.7
25°	1210.1	1201.7	1220.3	1259.1	1330.1	1434.9	1529.6	1576.9	1553.2	1424.8	1240.6
27.5°	1201.7	1189.9	1210.1	1260.8	1374.1	1521.1	1656.3	1727.3	1735.8	1603.9	1387.6
30°	1201.7	1196.6	1216.9	1282.8	1402.8	1549.8	1700.3	1806.7	1840.6	1730.7	1516.0
32.5°	1216.9	1220.3	1255.8	1340.3	1463.7	1614.1	1769.6	1884.5	1945.3	1862.5	1619.1
35°	1250.7	1257.5	1308.2	1406.2	1539.7	1691.8	1833.8	1950.4	2048.4	2004.5	1715.5
37.5°	1323.4	1333.5	1396.0	1495.8	1617.5	1754.4	1892.9	2018.0	2160.0	2141.4	1816.9
40°	1451.8	1451.8	1514.4	1600.6	1700.3	1805.1	1942.0	2089.0	2263.1	2288.4	1942.0
42.5°	1614.1	1607.3	1647.9	1710.4	1779.7	1867.6	1991.0	2154.9	2359.4	2415.2	2036.6
45°	1837.2	1803.4	1825.3	1840.6	1874.4	1928.4	2038.3	2217.5	2437.2	2509.8	2107.6
47.5°	2099.1	2051.8	2033.2	2004.5	1992.7	2012.9	2107.6	2266.5	2511.5	2591.0	2222.5
50°	2388.2	2342.5	2293.5	2215.8	2148.2	2127.9	2185.3	2332.4	2591.0	2692.4	2349.3
52.5°	2689.0	2656.9	2592.7	2471.0	2342.5	2269.8	2296.9	2442.2	2717.7	2849.6	2499.7
55°	2964.5	2974.6	2896.9	2754.9	2570.7	2459.1	2491.3	2636.6	2947.6	3103.1	2751.5
57.5°	3260.3	3233.2	3172.4	3025.3	2824.2	2704.2	2717.7	2893.5	3204.5	3322.8	3001.7
60°	3456.3	3456.3	3390.4	3278.9	3087.9	2976.3	2996.6	3158.9	3410.7	3422.5	3113.2
62.5°	3583.1	3601.7	3549.3	3469.8	3283.9	3191.0	3260.3	3375.2	3512.1	3414.1	3057.4
65°	3522.2	3542.5	3537.4	3449.6	3317.7	3311.0	3436.0	3463.1	3451.2	3290.7	2864.8
67.5°	3246.7	3206.2	3204.5	3158.9	3131.8	3272.1	3431.0	3439.4	3240.0	3049.0	2560.5
70°	2722.8	2653.5	2626.5	2640.0	2763.4	3025.3	3251.8	3187.6	2869.8	2705.9	2180.3
72.5°	2099.1	2016.3	1999.4	2051.8	2242.8	2611.3	2920.5	2831.0	2359.4	2168.4	1688.4
75°	1489.0	1453.5	1455.2	1558.3	1764.5	2119.4	2479.4	2471.0	1747.6	1495.8	1162.8
77.5°	1083.4	1090.1	1120.6	1161.1	1338.6	1681.7	2019.7	1997.7	1243.9	1027.6	813.0
80°	894.1	904.2	904.2	882.2	927.9	1110.4	1372.4	1465.3	833.2	691.3	567.9
82.5°	642.2	693.0	721.7	686.2	669.3	731.8	860.3	921.1	518.9	436.1	397.2
85°	305.9	349.9	360.0	351.5	403.9	461.4	491.8	503.7	283.9	202.8	260.3
87.5°	0.0	0.0	1.7	13.5	37.2	64.2	64.2	98.0	15.2	5.1	11.8
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°	9.0	11.0	13.0	10.0	7.0	6.0	5.0	4.5	4.0	4.0	4.0
100°	30.0	31.0	32.0	31.0	30.0	28.5	27.0	26.5	26.0	25.0	26.0
102.5°	50.0	50.5	51.0	50.5	50.0	49.0	48.0	48.5	49.0	48.0	49.0
105°	70.0	70.5	71.0	71.0	71.0	70.0	69.0	70.0	71.0	69.0	71.0
107.5°	91.0	92.0	93.0	92.5	92.0	91.5	91.0	91.5	92.0	91.0	92.0
110°	112.0	113.0	114.0	114.0	114.0	113.5	113.0	113.5	114.0	113.0	114.0

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	134.0	135.0	136.0	136.0	136.0	135.5	135.0	136.0	137.0	135.0	137.0
115°	156.0	157.0	158.0	158.0	158.0	158.0	158.0	159.0	160.0	159.0	160.0
117.5°	179.0	179.5	180.0	180.5	181.0	180.5	180.0	181.0	182.0	180.0	182.0
120°	202.0	203.0	204.0	204.0	204.0	204.0	204.0	205.0	206.0	204.0	206.0
122.5°	227.0	227.5	228.0	228.0	228.0	228.5	229.0	231.0	233.0	232.0	233.0
125°	252.0	252.5	253.0	253.5	254.0	254.0	254.0	255.5	257.0	256.0	257.0
127.5°	276.0	277.0	278.0	277.5	277.0	277.5	278.0	279.5	281.0	278.0	281.0
130°	299.0	300.0	301.0	301.0	301.0	301.5	302.0	303.5	305.0	303.0	305.0
132.5°	322.0	323.5	325.0	325.0	325.0	325.5	326.0	327.5	329.0	327.0	329.0
135°	345.0	346.5	348.0	348.0	348.0	348.5	349.0	350.0	351.0	350.0	351.0
137.5°	367.0	368.0	369.0	369.0	369.0	369.5	370.0	372.0	374.0	372.0	374.0
140°	389.0	389.5	390.0	390.0	390.0	391.0	392.0	394.0	396.0	394.0	396.0
142.5°	410.0	411.0	412.0	412.0	412.0	412.5	413.0	414.5	416.0	415.0	416.0
145°	432.0	433.0	434.0	433.5	433.0	433.5	434.0	435.5	437.0	435.0	437.0
147.5°	453.0	453.5	454.0	453.0	452.0	452.5	453.0	454.5	456.0	453.0	456.0
150°	470.0	470.5	471.0	470.0	469.0	469.0	469.0	471.0	473.0	470.0	473.0
152.5°	486.0	486.5	487.0	486.5	486.0	486.0	486.0	487.5	489.0	486.0	489.0
155°	503.0	503.5	504.0	503.5	503.0	503.5	504.0	505.5	507.0	505.0	507.0
157.5°	519.0	519.0	519.0	518.0	517.0	517.5	518.0	520.5	523.0	520.0	523.0
160°	532.0	532.0	532.0	531.0	530.0	530.0	530.0	531.5	533.0	531.0	533.0
162.5°	541.0	541.5	542.0	541.0	540.0	539.0	538.0	539.0	540.0	537.0	540.0
165°	552.0	552.5	553.0	551.5	550.0	549.0	548.0	549.0	550.0	548.0	550.0
167.5°	560.0	560.0	560.0	559.0	558.0	558.5	559.0	561.0	563.0	561.0	563.0
170°	566.0	565.5	565.0	564.5	564.0	565.0	566.0	568.5	571.0	569.0	571.0
172.5°	568.0	568.5	569.0	568.0	567.0	567.5	568.0	569.5	571.0	568.0	571.0
175°	572.0	572.5	573.0	571.5	570.0	569.0	568.0	569.5	571.0	568.0	571.0
177.5°	577.0	577.0	577.0	575.5	574.0	574.0	574.0	575.5	577.0	574.0	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

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1277.7	1255.8	1238.9	1218.6	1201.7	1184.8	1173.0	1147.6	1127.3	1081.7	1069.9
5°	1247.3	1200.0	1167.9	1137.5	1098.6	1071.5	1042.8	1007.3	968.4	902.5	882.2
7.5°	1127.3	1068.2	1024.2	980.3	929.6	883.9	841.7	794.4	726.8	655.8	628.7
10°	997.2	934.6	873.8	821.4	760.6	709.9	672.7	638.9	584.8	530.7	495.2
12.5°	890.7	819.7	750.4	698.0	665.9	640.6	613.5	586.5	529.0	468.2	425.9
15°	841.7	758.9	698.0	654.1	625.3	594.9	562.8	532.4	464.8	393.8	343.1
17.5°	848.4	753.8	676.1	616.9	578.0	535.8	498.6	459.7	385.3	300.8	255.2
20°	885.6	758.9	652.4	583.1	527.3	473.2	425.9	376.9	285.6	219.7	187.6
22.5°	933.0	775.8	638.9	549.3	480.0	412.4	351.5	294.1	211.3	172.4	157.2
25°	1014.1	814.6	635.5	518.9	434.4	353.2	290.7	229.9	170.7	152.1	143.7
27.5°	1115.5	858.6	638.9	496.9	395.5	305.9	236.6	191.0	153.8	143.7	136.9
30°	1216.9	904.2	623.7	463.1	349.9	262.0	202.8	174.1	152.1	140.3	128.4
32.5°	1306.5	938.0	598.3	427.6	309.3	223.1	172.4	148.7	133.5	120.0	116.6
35°	1370.7	953.2	569.6	405.6	282.3	199.4	152.1	133.5	118.3	104.8	98.0
37.5°	1431.5	954.9	539.2	385.3	272.1	189.3	140.3	123.4	109.9	98.0	91.3
40°	1494.1	948.2	522.3	365.1	256.9	184.2	135.2	114.9	106.5	93.0	86.2
42.5°	1539.7	936.3	515.5	353.2	243.4	170.7	131.8	113.2	101.4	91.3	82.8
45°	1582.0	924.5	515.5	343.1	233.2	162.3	125.1	114.9	98.0	89.6	79.4
47.5°	1632.7	929.6	517.2	334.6	224.8	153.8	118.3	111.5	99.7	87.9	77.7
50°	1718.9	987.0	525.6	329.6	218.0	147.0	113.2	106.5	109.9	86.2	76.1
52.5°	1867.6	1078.3	539.2	326.2	211.3	142.0	106.5	103.1	111.5	86.2	74.4
55°	2062.0	1171.3	552.7	317.7	201.1	131.8	103.1	96.3	103.1	86.2	72.7
57.5°	2251.3	1240.6	564.5	305.9	184.2	121.7	98.0	91.3	94.6	84.5	69.3
60°	2361.1	1294.6	576.3	285.6	163.9	109.9	93.0	86.2	84.5	84.5	67.6
62.5°	2391.5	1274.4	569.6	260.3	147.0	101.4	87.9	81.1	76.1	86.2	67.6
65°	2295.2	1167.9	544.2	238.3	135.2	98.0	82.8	77.7	72.7	74.4	64.2
67.5°	1999.4	982.0	474.9	218.0	133.5	96.3	79.4	74.4	67.6	65.9	60.8
70°	1631.0	770.7	393.8	202.8	131.8	96.3	76.1	69.3	64.2	59.2	55.8
72.5°	1254.1	576.3	331.3	196.1	133.5	94.6	71.0	62.5	57.5	54.1	50.7
75°	882.2	407.3	275.5	175.8	125.1	89.6	65.9	55.8	50.7	47.3	43.9
77.5°	638.9	277.2	204.5	142.0	106.5	77.7	57.5	47.3	42.3	40.6	37.2
80°	407.3	170.7	136.9	104.8	77.7	60.8	43.9	37.2	33.8	30.4	28.7
82.5°	234.9	99.7	82.8	71.0	50.7	40.6	32.1	28.7	22.0	20.3	18.6
85°	143.7	62.5	45.6	37.2	32.1	25.4	18.6	16.9	11.8	10.1	8.5
87.5°	32.1	13.5	11.8	8.5	10.1	8.5	5.1	3.4	0.0	0.0	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°	4.5	5.0	6.0	7.0	10.0	13.0	11.0	9.0	4.0	3.0	2.0
100°	26.5	27.0	28.5	30.0	31.0	32.0	31.0	30.0	22.0	14.0	10.0
102.5°	48.5	48.0	49.0	50.0	50.5	51.0	50.5	50.0	45.0	38.0	32.0
105°	70.0	69.0	70.0	71.0	71.0	71.0	70.5	70.0	66.0	61.0	56.0
107.5°	91.5	91.0	91.5	92.0	92.5	93.0	92.0	91.0	88.0	84.0	80.0
110°	113.5	113.0	113.5	114.0	114.0	114.0	113.0	112.0	110.0	106.0	103.0

REPORT NUMBER: P228534
CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	136.0	135.0	135.5	136.0	136.0	136.0	135.0	134.0	132.0	129.0	126.0	0°
115°	159.0	158.0	158.0	158.0	158.0	158.0	157.0	156.0	154.0	151.0	149.0	2.5°
117.5°	181.0	180.0	180.5	181.0	180.5	180.0	179.5	179.0	177.0	174.0	172.0	5°
120°	205.0	204.0	204.0	204.0	204.0	204.0	203.0	202.0	201.0	198.0	196.0	7.5°
122.5°	231.0	229.0	228.5	228.0	228.0	228.0	227.5	227.0	226.0	223.0	221.0	10°
125°	255.5	254.0	254.0	254.0	253.5	253.0	252.5	252.0	251.0	248.0	247.0	12.5°
127.5°	279.5	278.0	277.5	277.0	277.5	278.0	277.0	276.0	274.0	272.0	270.0	15°
130°	303.5	302.0	301.5	301.0	301.0	301.0	300.0	299.0	298.0	294.0	293.0	17.5°
132.5°	327.5	326.0	325.5	325.0	325.0	325.0	323.5	322.0	321.0	318.0	317.0	20°
135°	350.0	349.0	348.5	348.0	348.0	348.0	346.5	345.0	345.0	341.0	339.0	22.5°
137.5°	372.0	370.0	369.5	369.0	369.0	369.0	368.0	367.0	367.0	364.0	363.0	25°
140°	394.0	392.0	391.0	390.0	390.0	390.0	389.5	389.0	388.0	386.0	385.0	27.5°
142.5°	414.5	413.0	412.5	412.0	412.0	412.0	411.0	410.0	410.0	407.0	408.0	30°
145°	435.5	434.0	433.5	433.0	433.5	434.0	433.0	432.0	431.0	428.0	428.0	32.5°
147.5°	454.5	453.0	452.5	452.0	453.0	454.0	453.5	453.0	452.0	448.0	447.0	35°
150°	471.0	469.0	469.0	469.0	470.0	471.0	470.5	470.0	469.0	465.0	464.0	37.5°
152.5°	487.5	486.0	486.0	486.0	486.5	487.0	486.5	486.0	485.0	482.0	483.0	40°
155°	505.5	504.0	503.5	503.0	503.5	504.0	503.5	503.0	503.0	501.0	502.0	42.5°
157.5°	520.5	518.0	517.5	517.0	518.0	519.0	519.0	519.0	519.0	516.0	517.0	45°
160°	531.5	530.0	530.0	530.0	531.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°
162.5°	539.0	538.0	539.0	540.0	541.0	542.0	541.5	541.0	541.0	538.0	539.0	50°
165°	549.0	548.0	549.0	550.0	551.5	553.0	552.5	552.0	552.0	548.0	549.0	52.5°
167.5°	561.0	559.0	558.5	558.0	559.0	560.0	560.0	560.0	561.0	558.0	559.0	55°
170°	568.5	566.0	565.0	564.0	564.5	565.0	565.5	566.0	567.0	565.0	566.0	57.5°
172.5°	569.5	568.0	567.5	567.0	568.0	569.0	568.5	568.0	569.0	567.0	569.0	60°
175°	569.5	568.0	569.0	570.0	571.5	573.0	572.5	572.0	572.0	569.0	570.0	62.5°
177.5°	575.5	574.0	574.0	574.0	575.5	577.0	577.0	577.0	578.0	574.0	575.0	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°

NUMBER: P228534

REPORT NUMBER: P

NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°
1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	112.5°
1051.3	1025.9	1027.6	1022.5	1009.0	987.0	980.3	968.4	970.1	976.9	970.1	115°
858.6	828.2	831.5	829.9	816.3	801.1	789.3	774.1	769.0	774.1	765.6	117.5°
608.4	588.2	594.9	610.1	608.4	600.0	589.9	573.0	569.6	571.3	556.1	120°
464.8	444.5	439.4	437.7	434.4	429.3	415.8	402.3	397.2	398.9	388.7	122.5°
388.7	371.8	351.5	333.0	316.1	309.3	292.4	283.9	282.3	282.3	277.2	125°
307.6	294.1	282.3	263.7	250.1	240.0	228.2	221.4	219.7	221.4	221.4	127.5°
229.9	223.1	218.0	216.3	209.6	202.8	196.1	192.7	191.0	191.0	192.7	130°
175.8	174.1	174.1	174.1	182.5	189.3	191.0	185.9	184.2	182.5	180.8	132.5°
152.1	150.4	152.1	162.3	157.2	152.1	152.1	152.1	152.1	152.1	153.8	135°
140.3	142.0	143.7	138.6	133.5	130.1	128.4	128.4	126.8	126.8	128.4	137.5°
133.5	131.8	130.1	126.8	123.4	118.3	116.6	114.9	114.9	114.9	114.9	140°
125.1	123.4	121.7	118.3	113.2	106.5	104.8	104.8	103.1	104.8	104.8	142.5°
114.9	113.2	111.5	108.2	103.1	99.7	98.0	94.6	94.6	94.6	96.3	145°
93.0	91.3	91.3	93.0	93.0	91.3	91.3	87.9	87.9	87.9	87.9	147.5°
86.2	84.5	84.5	82.8	84.5	86.2	84.5	82.8	82.8	81.1	81.1	150°
81.1	81.1	79.4	77.7	77.7	81.1	79.4	77.7	76.1	76.1	76.1	152.5°
77.7	76.1	76.1	74.4	74.4	74.4	72.7	71.0	69.3	69.3	69.3	155°
74.4	74.4	72.7	71.0	69.3	69.3	65.9	64.2	64.2	64.2	65.9	157.5°
72.7	71.0	71.0	69.3	67.6	64.2	62.5	60.8	60.8	60.8	60.8	160°
71.0	69.3	67.6	67.6	64.2	62.5	60.8	59.2	59.2	59.2	59.2	162.5°
69.3	67.6	65.9	64.2	62.5	60.8	59.2	57.5	57.5	57.5	57.5	165°
65.9	64.2	64.2	62.5	62.5	60.8	59.2	57.5	57.5	57.5	55.8	167.5°
64.2	62.5	60.8	60.8	60.8	59.2	57.5	55.8	55.8	55.8	55.8	170°
62.5	60.8	60.8	59.2	59.2	57.5	57.5	55.8	54.1	54.1	52.4	172.5°
60.8	59.2	59.2	57.5	59.2	57.5	55.8	54.1	52.4	52.4	50.7	175°
59.2	57.5	57.5	57.5	55.8	55.8	54.1	50.7	50.7	50.7	49.0	177.5°
55.8	54.1	54.1	55.8	54.1	52.4	52.4	49.0	49.0	47.3	47.3	180°
50.7	50.7	50.7	52.4	50.7	49.0	49.0	47.3	45.6	43.9	43.9	
47.3	45.6	47.3	47.3	47.3	45.6	47.3	43.9	42.3	40.6	40.6	
40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6	38.9	37.2	35.5	
32.1	33.8	33.8	33.8	33.8	35.5	33.8	33.8	33.8	32.1	30.4	
23.7	23.7	25.4	27.0	25.4	27.0	25.4	27.0	25.4	25.4	25.4	
13.5	13.5	15.2	16.9	16.9	18.6	15.2	16.9	16.9	18.6	16.9	
5.1	5.1	5.1	5.1	6.8	6.8	5.1	6.8	6.8	8.5	8.5	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	
2.0	2.0	2.0	2.0	3.0	4.0	9.0	11.0	12.0	13.0	11.5	
8.0	8.0	8.0	10.0	14.0	22.0	30.0	31.0	31.5	32.0	31.5	
28.0	28.0	28.0	32.0	38.0	45.0	50.0	50.5	50.8	51.0	50.8	
54.0	54.0	54.0	56.0	61.0	66.0	70.0	70.5	70.8	71.0	71.0	
77.0	78.0	77.0	80.0	84.0	88.0	91.0	92.0	92.5	93.0	92.8	
102.0	101.0	102.0	103.0	106.0	110.0	112.0	113.0	113.5	114.0	114.0	

'228534
ISC-AF-1000-LED-E1-SLL-7030-ULG

REPORT NUMBER: P228534
CATALOG NUMBER: ISC-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	1181.4	1181.4
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	983.7	983.7
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	772.4	770.7
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	561.1	556.1
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	392.1	378.6
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	283.9	278.9
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	224.8	224.8
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	194.4	194.4
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	179.2	177.5
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	153.8	152.1
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	126.8	126.8
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	114.9	114.9
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	104.8	106.5
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	96.3	96.3
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	86.2	86.2
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	79.4	77.7
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	72.7	72.7
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	67.6	67.6
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	64.2	64.2
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	62.5	62.5
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	59.2	59.2
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	57.5	57.5
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	55.8	57.5
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	54.1	54.1
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	52.4	52.4
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	50.7	50.7
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	49.0	49.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	45.6	45.6
										70°	42.3	42.3
										72.5°	38.9	38.9
										75°	35.5	33.8
										77.5°	30.4	28.7
										80°	25.4	23.7
										82.5°	18.6	16.9
										85°	8.5	8.5
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.0	8.5
										100°	31.0	30.5
										102.5°	50.5	50.2
										105°	71.0	71.0
										107.5°	92.5	92.2
										110°	114.0	114.0

00-LED-E1-SLL-7030-ULG

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	136.0	136.0	136.0
963.4	966.8	970.1	976.9	973.5	971.8	970.1	980.3	985.3	115°	158.0	158.0	158.0
745.3	743.7	748.7	750.4	745.3	736.9	731.8	733.5	738.6	117.5°	180.5	180.8	181.0
532.4	529.0	527.3	529.0	523.9	515.5	508.7	510.4	515.5	120°	204.0	204.0	204.0
375.2	376.9	380.3	383.7	383.7	383.7	385.3	395.5	407.3	122.5°	228.0	228.0	228.0
282.3	285.6	292.4	297.5	302.5	304.2	305.9	319.4	329.6	125°	253.5	253.8	254.0
228.2	229.9	233.2	236.6	240.0	240.0	241.7	246.8	255.2	127.5°	277.5	277.2	277.0
194.4	194.4	194.4	192.7	191.0	187.6	185.9	184.2	185.9	130°	301.0	301.0	301.0
174.1	172.4	169.0	165.6	163.9	158.9	157.2	152.1	150.4	132.5°	325.0	325.0	325.0
152.1	152.1	152.1	150.4	148.7	147.0	143.7	138.6	135.2	135°	348.0	348.0	348.0
126.8	128.4	128.4	130.1	133.5	133.5	133.5	133.5	128.4	137.5°	369.0	369.0	369.0
114.9	114.9	116.6	116.6	118.3	118.3	118.3	120.0	121.7	140°	390.0	390.0	390.0
106.5	108.2	108.2	109.9	109.9	111.5	111.5	113.2	113.2	142.5°	412.0	412.0	412.0
98.0	99.7	99.7	99.7	103.1	103.1	101.4	103.1	103.1	145°	433.5	433.2	433.0
86.2	86.2	86.2	86.2	86.2	86.2	82.8	81.1	82.8	147.5°	453.0	452.5	452.0
77.7	76.1	74.4	74.4	74.4	76.1	74.4	76.1	76.1	150°	470.0	469.5	469.0
71.0	71.0	71.0	71.0	71.0	71.0	71.0	72.7	74.4	152.5°	486.5	486.2	486.0
67.6	67.6	67.6	67.6	67.6	67.6	67.6	69.3	69.3	155°	503.5	503.2	503.0
64.2	64.2	65.9	65.9	65.9	65.9	65.9	65.9	67.6	157.5°	518.0	517.5	517.0
62.5	62.5	62.5	62.5	62.5	62.5	62.5	64.2	65.9	160°	531.0	530.5	530.0
60.8	60.8	60.8	60.8	60.8	60.8	60.8	62.5	64.2	162.5°	541.0	540.5	540.0
57.5	59.2	59.2	59.2	59.2	59.2	59.2	59.2	60.8	165°	551.5	550.8	550.0
57.5	57.5	57.5	57.5	55.8	55.8	55.8	55.8	57.5	167.5°	559.0	558.5	558.0
55.8	55.8	55.8	54.1	54.1	52.4	52.4	52.4	55.8	170°	564.5	564.2	564.0
52.4	52.4	52.4	50.7	50.7	50.7	50.7	52.4	52.4	172.5°	568.0	567.5	567.0
49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	175°	571.5	570.8	570.0
47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	177.5°	575.5	574.8	574.0
45.6	43.9	43.9	43.9	43.9	45.6	43.9	43.9	43.9	180°	576.0	576.0	576.0
42.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6				
38.9	38.9	37.2	37.2	37.2	37.2	37.2	37.2	37.2				
33.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1				
28.7	28.7	27.0	27.0	27.0	27.0	27.0	27.0	27.0				
23.7	22.0	22.0	22.0	22.0	22.0	22.0	20.3	20.3				
16.9	16.9	16.9	15.2	15.2	15.2	15.2	13.5	11.8				
6.8	8.5	8.5	10.1	8.5	8.5	8.5	6.8	3.4				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	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				
7.0	6.5	6.0	5.5	5.0	4.8	4.5	4.0	4.0				
30.0	29.2	28.5	27.8	27.0	26.8	26.5	26.0	25.0				
50.0	49.5	49.0	48.5	48.0	48.2	48.5	49.0	48.0				
71.0	70.5	70.0	69.5	69.0	69.5	70.0	71.0	69.0				
92.0	91.8	91.5	91.2	91.0	91.2	91.5	92.0	91.0				
114.0	113.8	113.5	113.2	113.0	113.2	113.5	114.0	113.0				

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-

-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	1181.4	1181.4	1181.4	1181.4
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	982.0	998.9	1000.6	990.4
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	731.8	753.8	752.1	738.6
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	517.2	535.8	534.1	532.4
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	419.2	436.1	441.1	453.0
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	339.7	360.0	365.1	378.6
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	262.0	278.9	283.9	294.1
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	192.7	202.8	206.2	213.0
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	150.4	153.8	155.5	157.2
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	135.2	136.9	136.9	138.6
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	125.1	126.8	126.8	128.4
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	120.0	120.0	120.0	120.0
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	114.9	114.9	114.9	116.6
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	106.5	103.1	106.5	104.8
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	82.8	82.8	84.5	86.2
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	77.7	79.4	79.4	81.1
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	74.4	76.1	77.7	79.4
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	71.0	74.4	74.4	76.1
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	69.3	71.0	72.7	74.4
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	67.6	69.3	71.0	72.7
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	64.2	67.6	69.3	71.0
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	62.5	65.9	65.9	69.3
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	59.2	62.5	62.5	65.9
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	55.8	59.2	60.8	62.5
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	54.1	55.8	57.5	59.2
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	50.7	54.1	55.8	57.5
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	49.0	52.4	52.4	55.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	45.6	49.0	49.0	50.7
								70°	42.3	43.9	45.6	47.3
								72.5°	38.9	40.6	40.6	42.3
								75°	32.1	33.8	35.5	37.2
								77.5°	27.0	27.0	30.4	30.4
								80°	20.3	20.3	22.0	23.7
								82.5°	11.8	11.8	13.5	13.5
								85°	3.4	3.4	3.4	3.4
								87.5°	0.0	0.0	0.0	0.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	4.0	4.5	4.8	5.0
								100°	26.0	26.5	26.8	27.0
								102.5°	49.0	48.5	48.2	48.0
								105°	71.0	70.0	69.5	69.0
								107.5°	92.0	91.5	91.2	91.0
								110°	114.0	113.5	113.2	113.0

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

ULG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	137.0	136.0	135.5	135.0	135.2
1010.7	1014.1	1009.0	1009.0	1012.4	1025.9	1025.9	115°	160.0	159.0	158.5	158.0	158.0
765.6	774.1	769.0	770.7	777.5	792.7	801.1	117.5°	182.0	181.0	180.5	180.0	180.2
549.3	556.1	559.4	564.5	584.8	586.5	596.6	120°	206.0	205.0	204.5	204.0	204.0
458.0	468.2	474.9	483.4	500.3	508.7	520.6	122.5°	233.0	231.0	230.0	229.0	228.8
385.3	397.2	403.9	420.8	431.0	441.1	456.3	125°	257.0	255.5	254.8	254.0	254.0
300.8	314.4	321.1	331.3	351.5	361.7	382.0	127.5°	281.0	279.5	278.8	278.0	277.8
218.0	223.1	236.6	253.5	265.4	282.3	292.4	130°	305.0	303.5	302.8	302.0	301.8
160.6	163.9	170.7	182.5	189.3	202.8	213.0	132.5°	329.0	327.5	326.8	326.0	325.8
138.6	140.3	143.7	147.0	150.4	155.5	160.6	135°	351.0	350.0	349.5	349.0	348.8
128.4	130.1	131.8	133.5	136.9	138.6	140.3	137.5°	374.0	372.0	371.0	370.0	369.8
121.7	121.7	123.4	126.8	126.8	130.1	131.8	140°	396.0	394.0	393.0	392.0	391.5
118.3	121.7	125.1	130.1	131.8	135.2	136.9	142.5°	416.0	414.5	413.8	413.0	412.8
101.4	101.4	103.1	106.5	106.5	108.2	109.9	145°	437.0	435.5	434.8	434.0	433.8
86.2	87.9	89.6	91.3	93.0	96.3	98.0	147.5°	456.0	454.5	453.8	453.0	452.8
82.8	82.8	84.5	87.9	89.6	91.3	93.0	150°	473.0	471.0	470.0	469.0	469.0
79.4	81.1	82.8	84.5	86.2	89.6	91.3	152.5°	489.0	487.5	486.8	486.0	486.0
77.7	79.4	81.1	82.8	86.2	87.9	89.6	155°	507.0	505.5	504.8	504.0	503.8
76.1	77.7	79.4	82.8	84.5	87.9	89.6	157.5°	523.0	520.5	519.2	518.0	517.8
74.4	76.1	77.7	81.1	84.5	87.9	91.3	160°	533.0	531.5	530.8	530.0	530.0
72.7	74.4	77.7	81.1	84.5	89.6	98.0	162.5°	540.0	539.0	538.5	538.0	538.5
71.0	74.4	77.7	81.1	86.2	93.0	101.4	165°	550.0	549.0	548.5	548.0	548.5
69.3	72.7	74.4	79.4	84.5	91.3	93.0	167.5°	563.0	561.0	560.0	559.0	558.8
65.9	69.3	71.0	76.1	82.8	84.5	82.8	170°	571.0	568.5	567.2	566.0	565.5
62.5	64.2	69.3	79.4	86.2	79.4	71.0	172.5°	571.0	569.5	568.8	568.0	567.8
60.8	62.5	65.9	72.7	74.4	65.9	64.2	175°	571.0	569.5	568.8	568.0	568.5
57.5	57.5	59.2	59.2	59.2	59.2	59.2	177.5°	577.0	575.5	574.8	574.0	574.0
52.4	52.4	54.1	54.1	54.1	54.1	54.1	180°	576.0	576.0	576.0	576.0	576.0
47.3	47.3	49.0	49.0	49.0	50.7	50.7						
42.3	43.9	43.9	45.6	45.6	45.6	47.3						
37.2	38.9	38.9	38.9	38.9	40.6	40.6						
32.1	32.1	33.8	33.8	33.8	33.8	33.8						
25.4	25.4	25.4	25.4	25.4	25.4	25.4						
15.2	15.2	16.9	15.2	15.2	13.5	13.5						
3.4	3.4	3.4	1.7	1.7	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	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						
5.5	6.0	6.5	7.0	8.5	10.0	11.5						
27.8	28.5	29.2	30.0	30.5	31.0	31.5						
48.5	49.0	49.5	50.0	50.2	50.5	50.8						
69.5	70.0	70.5	71.0	71.0	71.0	71.0						
91.2	91.5	91.8	92.0	92.2	92.5	92.8						
113.2	113.5	113.8	114.0	114.0	114.0	114.0						

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	1051.3	1051.3	1054.6	1068.2	1071.5	1080.0
180.5	180.8	181.0	180.8	180.5	180.2	5°	831.5	838.3	848.4	865.3	875.5	894.1
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	620.3	630.4	638.9	657.5	672.7	691.3
228.5	228.2	228.0	228.0	228.0	228.0	10°	537.5	545.9	557.7	569.6	584.8	593.2
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	478.3	490.1	502.0	518.9	534.1	549.3
277.5	277.2	277.0	277.2	277.5	277.8	15°	405.6	419.2	432.7	451.3	473.2	488.4
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	314.4	329.6	348.2	373.5	397.2	415.8
325.5	325.2	325.0	325.0	325.0	325.0	20°	231.5	245.1	262.0	283.9	300.8	333.0
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	170.7	179.2	192.7	209.6	228.2	256.9
369.5	369.2	369.0	369.0	369.0	369.0	25°	143.7	147.0	152.1	162.3	174.1	194.4
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	133.5	135.2	138.6	143.7	150.4	160.6
412.5	412.2	412.0	412.0	412.0	412.0	30°	140.3	140.3	140.3	142.0	145.4	150.4
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	113.2	114.9	114.9	118.3	120.0	126.8
452.5	452.2	452.0	452.5	453.0	453.5	35°	101.4	103.1	104.8	106.5	109.9	111.5
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	96.3	98.0	99.7	99.7	101.4	104.8
486.0	486.0	486.0	486.2	486.5	486.8	40°	94.6	94.6	94.6	94.6	98.0	101.4
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	91.3	91.3	91.3	93.0	98.0	104.8
517.5	517.2	517.0	517.5	518.0	518.5	45°	91.3	91.3	93.0	99.7	101.4	101.4
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	94.6	98.0	99.7	98.0	96.3	96.3
539.0	539.5	540.0	540.5	541.0	541.5	50°	103.1	101.4	94.6	93.0	93.0	89.6
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	101.4	94.6	93.0	89.6	86.2	84.5
558.5	558.2	558.0	558.5	559.0	559.5	55°	91.3	89.6	84.5	81.1	79.4	81.1
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	79.4	77.7	74.4	74.4	76.1	77.7
567.5	567.2	567.0	567.5	568.0	568.5	60°	69.3	69.3	69.3	71.0	72.7	74.4
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	62.5	64.2	64.2	67.6	69.3	71.0
574.0	574.0	574.0	574.8	575.5	576.2	65°	59.2	60.8	62.5	62.5	64.2	65.9
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	55.8	55.8	57.5	59.2	60.8	62.5
						70°	50.7	52.4	54.1	55.8	55.8	57.5
						72.5°	47.3	47.3	49.0	50.7	50.7	54.1
						75°	40.6	42.3	42.3	42.3	43.9	47.3
						77.5°	35.5	33.8	35.5	35.5	37.2	38.9
						80°	25.4	23.7	23.7	25.4	25.4	25.4
						82.5°	13.5	11.8	13.5	11.8	11.8	13.5
						85°	0.0	0.0	0.0	0.0	0.0	0.0
						87.5°	0.0	0.0	0.0	0.0	0.0	0.0
						90°	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
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	12.0	11.0	10.0	9.0	7.8
						100°	32.0	31.5	31.0	30.5	30.0	28.0
						102.5°	51.0	50.8	50.5	50.2	50.0	48.8
						105°	71.0	70.8	70.5	70.2	70.0	69.0
						107.5°	93.0	92.5	92.0	91.5	91.0	90.2
						110°	114.0	113.5	113.0	112.5	112.0	111.5

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
1078.3	1093.5	1100.3	1140.8	1183.1	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
890.7	921.1	926.2	1000.6	1073.2	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
696.3	731.8	742.0	840.0	941.4	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
606.8	623.7	635.5	708.2	824.8	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
562.8	579.7	594.9	654.1	745.3	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
503.7	522.3	540.8	613.5	720.0	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
431.0	456.3	480.0	567.9	708.2	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
349.9	380.3	409.0	518.9	691.3	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
275.5	302.5	334.6	473.2	691.3	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
213.0	240.0	272.1	432.7	709.9	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
174.1	196.1	228.2	400.6	736.9	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
157.2	170.7	191.0	353.2	755.5	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
133.5	143.7	162.3	324.5	767.3	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
118.3	130.1	148.7	305.9	765.6	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
109.9	121.7	143.7	299.2	765.6	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
109.9	121.7	140.3	292.4	770.7	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
108.2	114.9	130.1	289.0	779.2	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
103.1	108.2	123.4	289.0	796.1	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
96.3	103.1	118.3	294.1	828.2	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
91.3	98.0	116.6	294.1	894.1	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
86.2	96.3	114.9	290.7	988.7	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
84.5	93.0	111.5	287.3	1105.3	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
82.8	89.6	103.1	278.9	1198.3	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
79.4	84.5	94.6	263.7	1260.8	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
74.4	79.4	86.2	246.8	1274.4	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
71.0	76.1	86.2	233.2	1191.5	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
65.9	74.4	87.9	221.4	1010.7	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
62.5	74.4	89.6	216.3	802.8								
59.2	72.7	91.3	207.9	605.1								
54.1	65.9	79.4	172.4	409.0								
43.9	50.7	59.2	109.9	216.3								
28.7	30.4	33.8	67.6	120.0								
13.5	16.9	16.9	32.1	54.1								
0.0	0.0	0.0	3.4	11.8								
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								
1.0	1.0	1.0	1.0	1.0								
6.5	5.2	4.0	3.0	2.0								
26.0	24.0	22.0	14.0	10.0								
47.5	46.2	45.0	38.0	32.0								
68.0	67.0	66.0	61.0	56.0								
89.5	88.8	88.0	84.0	80.0								
111.0	110.5	110.0	106.0	103.0								

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	1181.4	1181.4	1181.4
154.5	154.0	151.0	149.0	2.5°	1223.7	1243.9	1254.1
177.5	177.0	174.0	172.0	5°	1157.7	1200.0	1213.5
201.2	201.0	198.0	196.0	7.5°	1058.0	1105.3	1123.9
226.2	226.0	223.0	221.0	10°	958.3	1017.5	1036.0
251.2	251.0	248.0	247.0	12.5°	899.1	970.1	980.3
274.5	274.0	272.0	270.0	15°	875.5	948.2	968.4
298.2	298.0	294.0	293.0	17.5°	899.1	980.3	1000.6
321.2	321.0	318.0	317.0	20°	944.8	1044.5	1076.6
345.0	345.0	341.0	339.0	22.5°	1022.5	1157.7	1198.3
367.0	367.0	364.0	363.0	25°	1149.3	1336.9	1372.4
388.2	388.0	386.0	385.0	27.5°	1284.5	1478.9	1534.6
410.0	410.0	407.0	408.0	30°	1402.8	1610.7	1656.3
431.2	431.0	428.0	428.0	32.5°	1487.3	1715.5	1767.9
452.2	452.0	448.0	447.0	35°	1587.0	1835.5	1886.2
469.2	469.0	465.0	464.0	37.5°	1702.0	1980.8	2050.1
485.2	485.0	482.0	483.0	40°	1828.7	2131.3	2209.0
503.0	503.0	501.0	502.0	42.5°	1943.6	2271.5	2357.7
519.0	519.0	516.0	517.0	45°	2033.2	2403.4	2471.0
532.0	532.0	529.0	529.0	47.5°	2136.3	2504.8	2580.8
541.0	541.0	538.0	539.0	50°	2278.3	2633.2	2722.8
552.0	552.0	548.0	549.0	52.5°	2486.2	2851.2	2915.5
560.8	561.0	558.0	559.0	55°	2738.0	3114.9	3187.6
566.8	567.0	565.0	566.0	57.5°	2969.6	3360.0	3422.5
568.8	569.0	567.0	569.0	60°	3118.3	3473.2	3525.6
572.0	572.0	569.0	570.0	62.5°	3120.0	3476.6	3542.5
577.8	578.0	574.0	575.0	65°	2996.6	3402.2	3476.6
576.0	576.0	576.0	576.0	67.5°	2683.9	3212.9	3327.9
				70°	2266.5	2841.1	2969.6
				72.5°	1767.9	2232.7	2379.7
				75°	1198.3	1482.2	1610.7
				77.5°	762.2	855.2	897.5
				80°	449.6	505.3	527.3
				82.5°	278.9	300.8	322.8
				85°	113.2	81.1	87.9
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

REPORT NUMBER: P228534

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)