

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: P228513

Luminaire Tested: **ISC-AF-600-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228513  
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-600-LED-E1-SLL-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4685.2 lumens  
Efficiency: N/A  
Efficacy: 93.0 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 - G1  
  
Input Watts (W): 50.4  
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

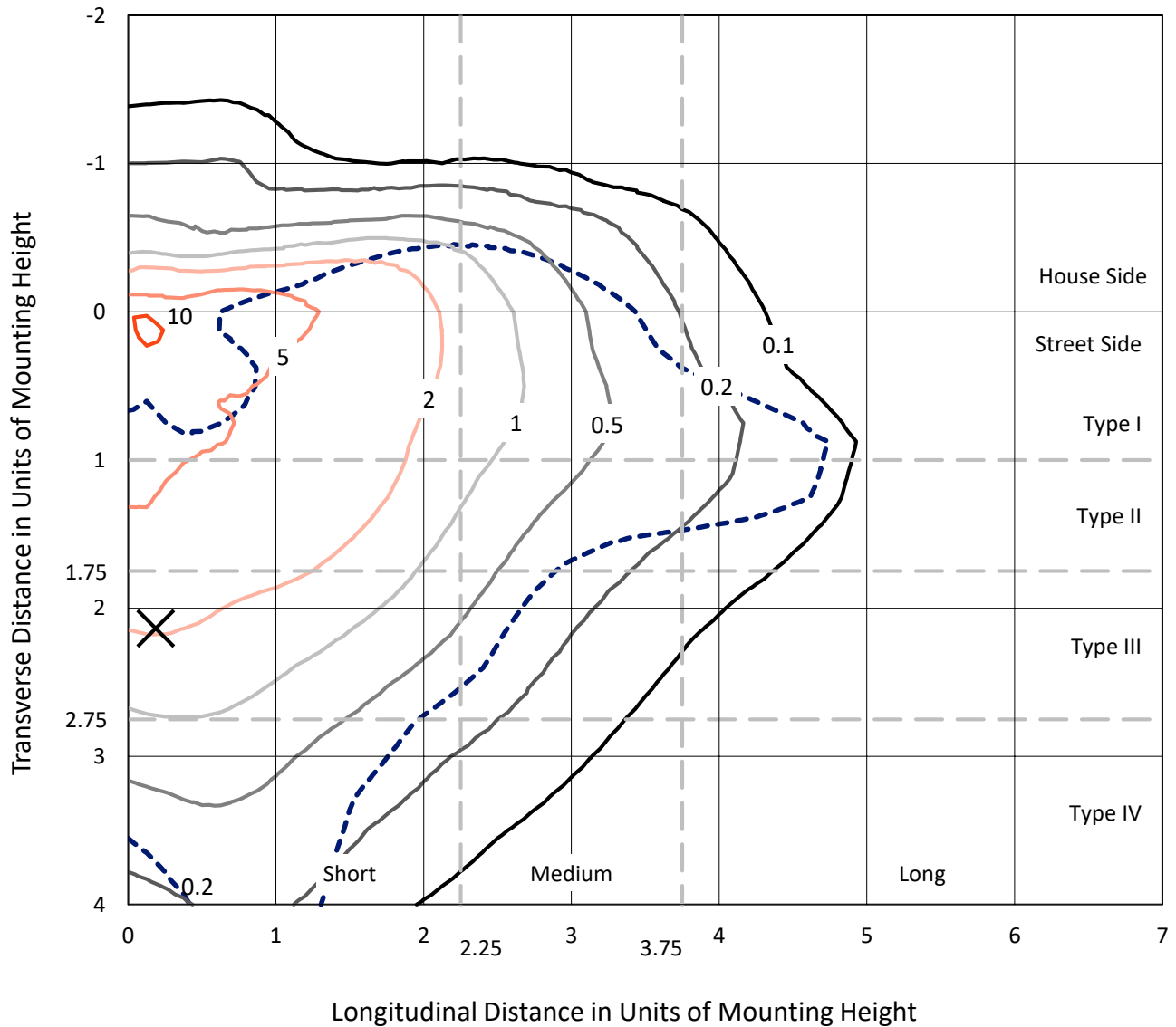


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

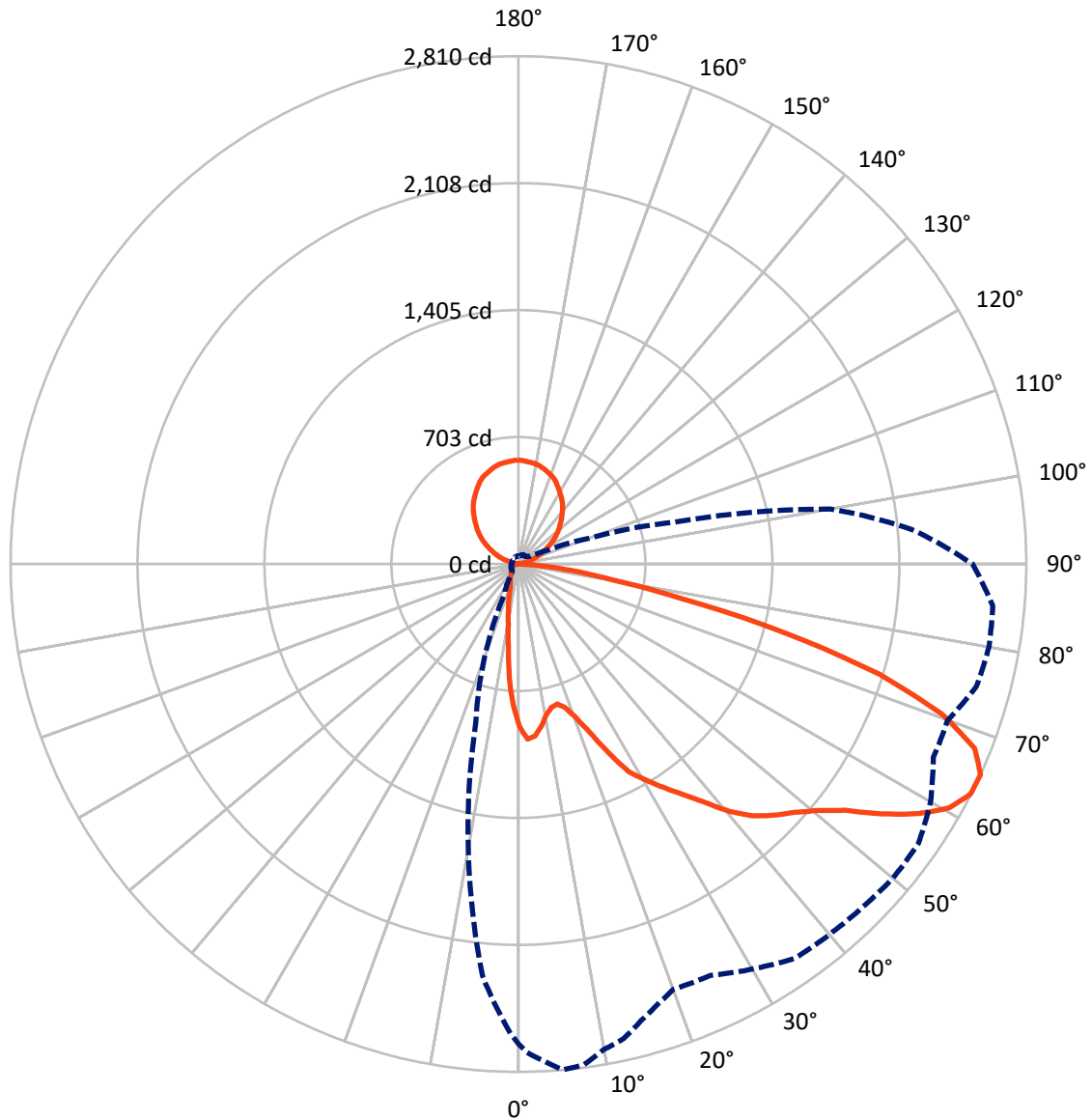


Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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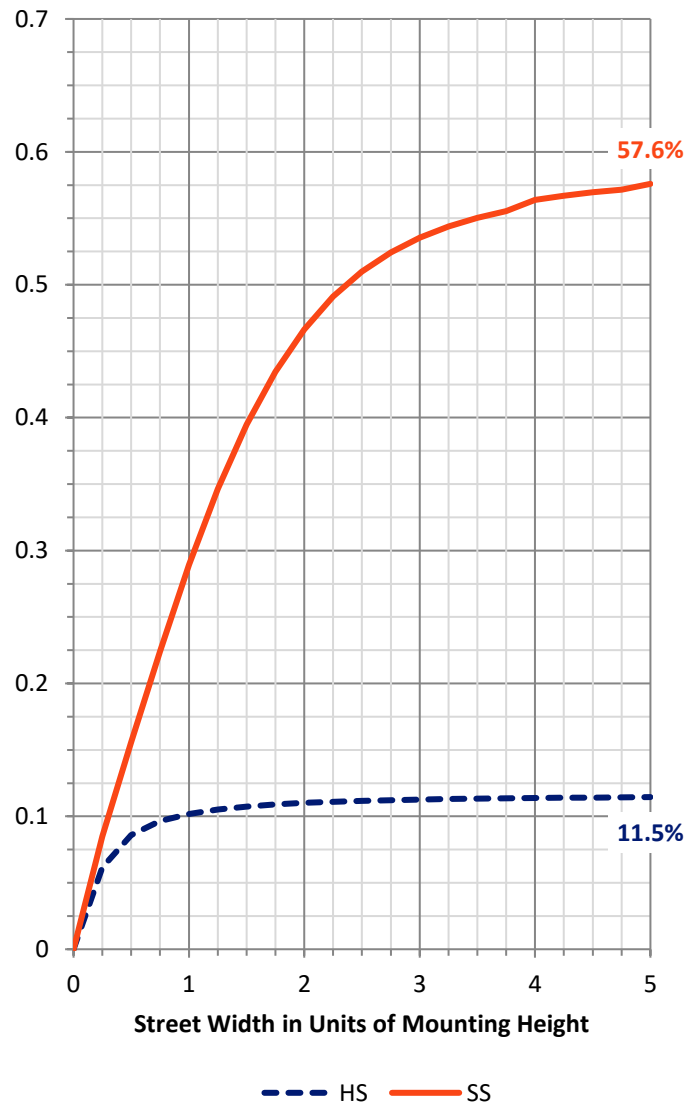
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	541.9	713.1	1255.0
	% Fixture	11.6	15.2	26.8
<b>Street Side</b>	Lumens	2717.1	713.1	3430.2
	% Fixture	58.0	15.2	73.2
<b>Total</b>	Lumens	3259.0	1426.2	4685.2
	% Fixture	69.6	30.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	1.5
10°-20°	142.7	3.0
20°-30°	207.4	4.4
30°-40°	306.8	6.5
40°-50°	447.0	9.5
50°-60°	670.1	14.3
60°-70°	835.0	17.8
70°-80°	489.2	10.4
80°-90°	91.5	2.0
90°-100°	4.7	0.1
100°-110°	69.0	1.5
110°-120°	153.0	3.3
120°-130°	223.9	4.8
130°-140°	265.6	5.7
140°-150°	269.3	5.7
150°-160°	231.1	4.9
160°-170°	155.1	3.3
170°-180°	54.3	1.2
0°-90°	3259.0	69.6
0°-180°	4685.2	100.0



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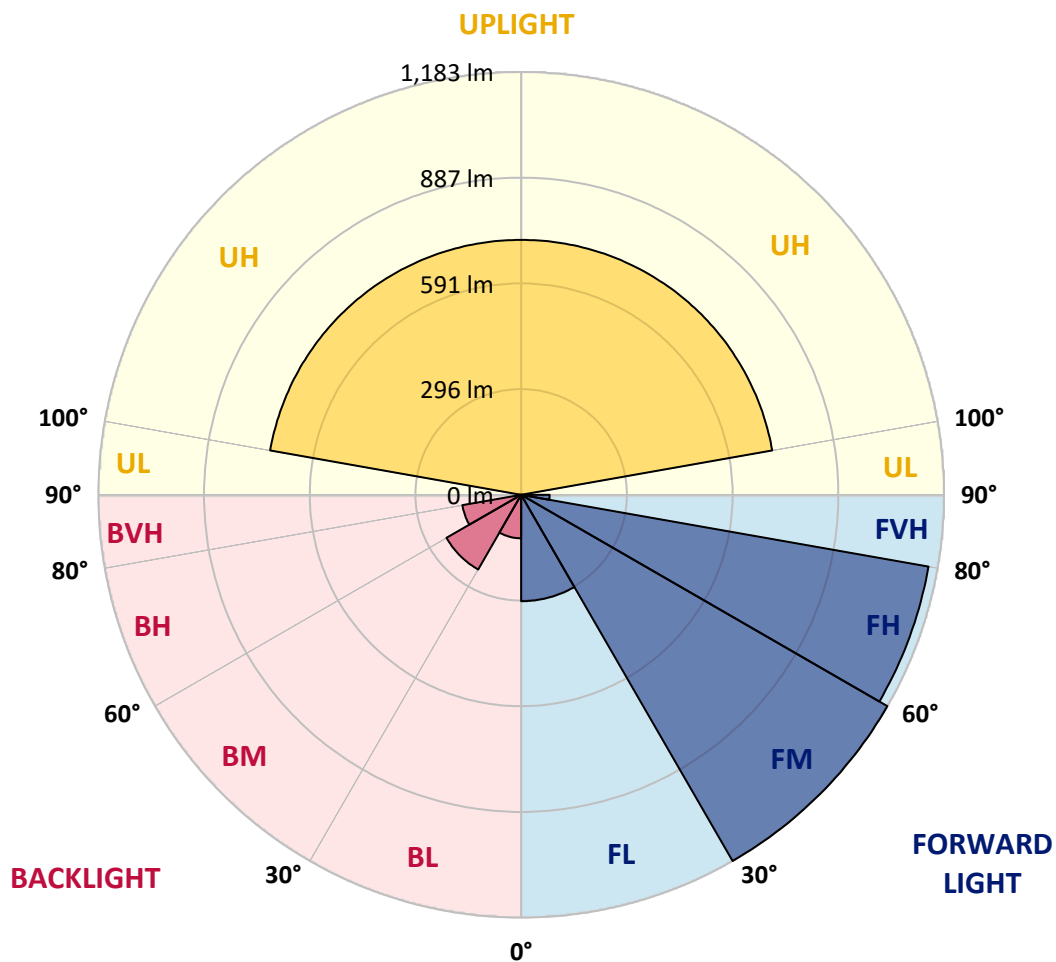
CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-7050-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.7	6.4			
FM (30°-60°)	1182.8	25.2			
FH (60°-80°)	1156.9	24.7			G1/1800
FVH (80°-90°)	79.7	1.7			G1/100
BL (0°-30°)	121.7	2.6	B1/500		
BM (30°-60°)	241.2	5.1	B1/1000		
BH (60°-80°)	167.3	3.6	B1/500		G1/500
BVH (80°-90°)	11.8	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	15.2		U4/1000	

**BUG Rating: B1-U5-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	957.4	954.8	970.3	972.9	983.2	983.2	994.8	1005.1	1009.0	1018.0	1041.2
5°	926.4	934.2	956.1	978.0	993.5	1009.0	1025.8	1046.4	1063.2	1091.6	1150.9
7.5°	858.0	869.6	907.1	929.0	953.5	980.6	1001.2	1025.8	1051.6	1099.3	1205.1
10°	790.9	800.0	847.7	874.8	909.6	938.0	967.7	994.8	1023.2	1082.5	1205.1
12.5°	748.4	760.0	814.2	840.0	880.0	909.6	945.8	978.0	1011.6	1074.8	1193.5
15°	739.3	752.2	803.8	836.1	870.9	899.3	931.6	965.1	998.7	1060.6	1166.4
17.5°	763.8	779.3	834.8	870.9	898.0	930.3	953.5	985.8	1007.7	1056.7	1107.0
20°	821.9	840.0	905.8	940.6	962.5	983.2	1001.2	1020.6	1029.6	1041.2	1032.2
22.5°	914.8	936.7	1011.6	1051.6	1067.0	1082.5	1083.8	1086.4	1080.0	1049.0	979.3
25°	1047.7	1069.6	1154.8	1193.5	1193.5	1193.5	1179.3	1169.0	1139.3	1081.2	965.1
27.5°	1171.6	1199.9	1301.9	1326.4	1318.6	1307.0	1279.9	1254.1	1211.6	1114.8	963.8
30°	1264.5	1292.8	1387.0	1406.4	1387.0	1358.6	1316.1	1278.7	1228.3	1131.6	972.9
32.5°	1349.6	1383.2	1473.5	1476.1	1441.2	1409.0	1361.2	1318.6	1265.7	1162.5	1000.0
35°	1439.9	1473.5	1565.1	1547.0	1496.7	1452.8	1403.8	1366.4	1313.5	1202.5	1043.8
37.5°	1565.1	1594.8	1672.2	1629.6	1565.1	1508.3	1455.4	1406.4	1353.5	1256.7	1117.4
40°	1686.4	1729.0	1799.9	1731.5	1652.8	1576.7	1518.6	1467.0	1409.0	1330.3	1211.6
42.5°	1799.9	1839.9	1905.7	1818.0	1726.4	1650.2	1589.6	1534.1	1478.6	1414.1	1325.1
45°	1886.4	1927.7	1983.1	1890.2	1785.7	1707.0	1641.2	1592.2	1543.2	1499.3	1468.3
47.5°	1970.2	2011.5	2054.1	1953.5	1850.2	1770.2	1692.8	1647.7	1609.0	1585.7	1623.2
50°	2078.6	2107.0	2143.1	2034.7	1925.1	1833.5	1756.0	1721.2	1685.1	1692.8	1818.0
52.5°	2225.7	2250.2	2263.1	2157.3	2034.7	1930.2	1845.1	1797.3	1767.7	1812.8	2024.4
55°	2433.4	2468.3	2439.9	2335.4	2180.5	2061.8	1957.3	1900.6	1882.5	1943.1	2230.9
57.5°	2612.8	2628.3	2607.6	2504.4	2345.7	2212.8	2101.8	2042.5	2021.8	2101.8	2419.2
60°	2691.5	2710.8	2739.2	2650.2	2501.8	2370.2	2274.7	2216.7	2181.8	2274.7	2570.2
62.5°	2704.4	2736.6	2806.3	2761.2	2643.7	2545.7	2459.2	2379.2	2352.2	2423.1	2669.6
65°	2654.1	2703.1	2810.2	2793.4	2727.6	2690.2	2617.9	2556.0	2504.4	2512.1	2664.4
67.5°	2540.5	2597.3	2722.5	2714.7	2722.5	2722.5	2659.2	2607.6	2540.5	2445.0	2468.3
70°	2267.0	2341.8	2486.3	2523.8	2589.6	2589.6	2534.1	2455.4	2378.0	2181.8	2063.1
72.5°	1816.7	1867.0	2088.9	2270.9	2354.7	2321.2	2267.0	2135.4	1965.1	1749.6	1588.3
75°	1229.6	1259.3	1531.5	1864.4	2016.7	1988.3	1899.3	1735.4	1559.9	1319.9	1116.1
77.5°	685.1	723.8	927.7	1188.3	1393.5	1389.6	1378.0	1273.5	1134.1	935.4	829.6
80°	402.6	415.5	522.6	712.2	889.0	846.4	816.7	734.2	663.2	572.9	654.2
82.5°	246.4	233.5	296.8	433.5	525.1	507.1	456.8	425.8	392.2	367.7	434.8
85°	67.1	60.6	121.3	181.9	223.2	241.3	241.3	238.7	214.2	161.3	193.5
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



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**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





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**CANDELA DISTRIBUTION (continued):**

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	1050.3	1051.6	1047.7	1056.7	1046.4	1041.2	1025.8	1025.8	1012.9	1002.5	990.9
5°	1172.8	1180.6	1174.1	1175.4	1154.8	1134.1	1103.2	1085.1	1052.9	1018.0	981.9
7.5°	1255.4	1268.3	1263.2	1241.2	1209.0	1165.1	1113.5	1064.5	1011.6	954.8	901.9
10°	1277.4	1291.6	1279.9	1238.7	1185.8	1123.8	1061.9	996.1	931.6	870.9	814.2
12.5°	1246.4	1256.7	1232.2	1187.0	1135.4	1073.5	1009.0	952.2	876.1	811.6	745.8
15°	1167.7	1161.2	1158.7	1126.4	1090.3	1040.0	979.3	921.2	850.3	784.5	714.8
17.5°	1082.5	1074.8	1077.4	1064.5	1059.3	1036.1	990.9	941.9	878.7	798.7	723.8
20°	1007.7	1000.0	1003.8	1010.3	1029.6	1030.9	1023.2	990.9	944.5	860.6	769.0
22.5°	943.2	944.5	957.4	975.4	1007.7	1049.0	1081.2	1087.7	1055.4	957.4	842.5
25°	923.8	917.4	931.6	961.2	1015.4	1095.4	1167.7	1203.8	1185.8	1087.7	947.1
27.5°	917.4	908.3	923.8	962.5	1049.0	1161.2	1264.5	1318.6	1325.1	1224.5	1059.3
30°	917.4	913.5	929.0	979.3	1070.9	1183.2	1298.0	1379.3	1405.1	1321.2	1157.4
32.5°	929.0	931.6	958.7	1023.2	1117.4	1232.2	1350.9	1438.6	1485.1	1421.9	1236.1
35°	954.8	960.0	998.7	1073.5	1175.4	1291.6	1399.9	1489.0	1563.8	1530.3	1309.6
37.5°	1010.3	1018.0	1065.8	1141.9	1234.8	1339.3	1445.1	1540.6	1649.0	1634.8	1387.0
40°	1108.3	1108.3	1156.1	1221.9	1298.0	1378.0	1482.5	1594.8	1727.7	1747.0	1482.5
42.5°	1232.2	1227.0	1258.0	1305.7	1358.6	1425.7	1519.9	1645.1	1801.2	1843.8	1554.8
45°	1402.5	1376.7	1393.5	1405.1	1430.9	1472.2	1556.1	1692.8	1860.6	1916.0	1609.0
47.5°	1602.5	1566.4	1552.2	1530.3	1521.2	1536.7	1609.0	1730.2	1917.3	1978.0	1696.7
50°	1823.1	1788.3	1750.9	1691.5	1639.9	1624.4	1668.3	1780.6	1978.0	2055.4	1793.5
52.5°	2052.8	2028.3	1979.3	1886.4	1788.3	1732.8	1753.5	1864.4	2074.7	2175.4	1908.3
55°	2263.1	2270.9	2211.5	2103.1	1962.5	1877.3	1901.8	2012.8	2250.2	2368.9	2100.5
57.5°	2488.9	2468.3	2421.8	2309.6	2156.0	2064.4	2074.7	2208.9	2446.3	2536.7	2291.5
60°	2638.6	2638.6	2588.3	2503.1	2357.3	2272.2	2287.6	2411.5	2603.8	2612.8	2376.7
62.5°	2735.4	2749.6	2709.6	2648.9	2507.0	2436.0	2488.9	2576.7	2681.2	2606.3	2334.1
65°	2688.9	2704.4	2700.5	2633.4	2532.8	2527.6	2623.1	2643.7	2634.7	2512.1	2187.0
67.5°	2478.6	2447.6	2446.3	2411.5	2390.9	2497.9	2619.2	2625.7	2473.4	2327.6	1954.7
70°	2078.6	2025.7	2005.1	2015.4	2109.6	2309.6	2482.5	2433.4	2190.9	2065.7	1664.4
72.5°	1602.5	1539.3	1526.4	1566.4	1712.2	1993.5	2229.6	2161.2	1801.2	1655.4	1289.0
75°	1136.7	1109.6	1110.9	1189.6	1347.0	1618.0	1892.8	1886.4	1334.1	1141.9	887.7
77.5°	827.1	832.2	855.4	886.4	1021.9	1283.8	1541.9	1525.1	949.6	784.5	620.6
80°	682.5	690.3	690.3	673.5	708.4	847.7	1047.7	1118.7	636.1	527.7	433.5
82.5°	490.3	529.0	550.9	523.8	510.9	558.7	656.7	703.2	396.1	332.9	303.2
85°	233.5	267.1	274.8	268.4	308.4	352.2	375.5	384.5	216.8	154.8	198.7
87.5°	0.0	0.0	1.3	10.3	28.4	49.0	49.0	74.8	11.6	3.9	9.0
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°	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



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**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: P228513

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-7050-ULG

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	975.4	958.7	945.8	930.3	917.4	904.5	895.4	876.1	860.6	825.8	816.7
5°	952.2	916.1	891.6	868.3	838.7	818.0	796.1	769.0	739.3	689.0	673.5
7.5°	860.6	815.4	781.9	748.4	709.6	674.8	642.6	606.4	554.8	500.6	480.0
10°	761.3	713.5	667.1	627.1	580.6	541.9	513.5	487.7	446.4	405.1	378.0
12.5°	680.0	625.8	572.9	532.9	508.4	489.0	468.4	447.7	403.9	357.4	325.1
15°	642.6	579.3	532.9	499.3	477.4	454.2	429.7	406.4	354.8	300.6	261.9
17.5°	647.7	575.5	516.1	470.9	441.3	409.0	380.6	351.0	294.2	229.7	194.8
20°	676.1	579.3	498.0	445.1	402.6	361.3	325.1	287.7	218.1	167.7	143.2
22.5°	712.2	592.2	487.7	419.3	366.4	314.8	268.4	224.5	161.3	131.6	120.0
25°	774.2	621.9	485.1	396.1	331.6	269.7	221.9	175.5	130.3	116.1	109.7
27.5°	851.6	655.5	487.7	379.3	301.9	233.5	180.6	145.8	117.4	109.7	104.5
30°	929.0	690.3	476.1	353.5	267.1	200.0	154.8	132.9	116.1	107.1	98.1
32.5°	997.4	716.1	456.8	326.4	236.1	170.3	131.6	113.5	101.9	91.6	89.0
35°	1046.4	727.7	434.8	309.7	215.5	152.3	116.1	101.9	90.3	80.0	74.8
37.5°	1092.9	729.0	411.6	294.2	207.7	144.5	107.1	94.2	83.9	74.8	69.7
40°	1140.6	723.8	398.7	278.7	196.1	140.6	103.2	87.7	81.3	71.0	65.8
42.5°	1175.4	714.8	393.5	269.7	185.8	130.3	100.6	86.4	77.4	69.7	63.2
45°	1207.7	705.8	393.5	261.9	178.1	123.9	95.5	87.7	74.8	68.4	60.6
47.5°	1246.4	709.6	394.8	255.5	171.6	117.4	90.3	85.2	76.1	67.1	59.4
50°	1312.2	753.5	401.3	251.6	166.4	112.3	86.4	81.3	83.9	65.8	58.1
52.5°	1425.7	823.2	411.6	249.0	161.3	108.4	81.3	78.7	85.2	65.8	56.8
55°	1574.1	894.2	421.9	242.6	153.5	100.6	78.7	73.5	78.7	65.8	55.5
57.5°	1718.6	947.1	430.9	233.5	140.6	92.9	74.8	69.7	72.3	64.5	52.9
60°	1802.5	988.3	440.0	218.1	125.2	83.9	71.0	65.8	64.5	64.5	51.6
62.5°	1825.7	972.9	434.8	198.7	112.3	77.4	67.1	61.9	58.1	65.8	51.6
65°	1752.2	891.6	415.5	181.9	103.2	74.8	63.2	59.4	55.5	56.8	49.0
67.5°	1526.4	749.6	362.6	166.4	101.9	73.5	60.6	56.8	51.6	50.3	46.4
70°	1245.1	588.4	300.6	154.8	100.6	73.5	58.1	52.9	49.0	45.2	42.6
72.5°	957.4	440.0	252.9	149.7	101.9	72.3	54.2	47.7	43.9	41.3	38.7
75°	673.5	311.0	210.3	134.2	95.5	68.4	50.3	42.6	38.7	36.1	33.5
77.5°	487.7	211.6	156.1	108.4	81.3	59.4	43.9	36.1	32.3	31.0	28.4
80°	311.0	130.3	104.5	80.0	59.4	46.4	33.5	28.4	25.8	23.2	21.9
82.5°	179.3	76.1	63.2	54.2	38.7	31.0	24.5	21.9	16.8	15.5	14.2
85°	109.7	47.7	34.8	28.4	24.5	19.4	14.2	12.9	9.0	7.7	6.5
87.5°	24.5	10.3	9.0	6.5	7.7	6.5	3.9	2.6	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



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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°

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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	112.5°	124.0
802.5	783.2	784.5	780.6	770.3	753.5	748.4	739.3	740.6	745.8	740.6	115°	147.0
655.5	632.2	634.8	633.5	623.2	611.6	602.6	590.9	587.1	590.9	584.5	117.5°	170.0
464.5	449.0	454.2	465.8	464.5	458.0	450.3	437.4	434.8	436.1	424.5	120°	195.0
354.8	339.3	335.5	334.2	331.6	327.7	317.4	307.1	303.2	304.5	296.8	122.5°	220.0
296.8	283.9	268.4	254.2	241.3	236.1	223.2	216.8	215.5	215.5	211.6	125°	246.0
234.8	224.5	215.5	201.3	191.0	183.2	174.2	169.0	167.7	169.0	169.0	127.5°	269.0
175.5	170.3	166.4	165.2	160.0	154.8	149.7	147.1	145.8	145.8	147.1	130°	292.0
134.2	132.9	132.9	132.9	139.3	144.5	145.8	141.9	140.6	139.3	138.1	132.5°	314.0
116.1	114.8	116.1	123.9	120.0	116.1	116.1	116.1	116.1	116.1	117.4	135°	337.0
107.1	108.4	109.7	105.8	101.9	99.4	98.1	98.1	96.8	96.8	98.1	137.5°	360.0
101.9	100.6	99.4	96.8	94.2	90.3	89.0	87.7	87.7	87.7	87.7	140°	383.0
95.5	94.2	92.9	90.3	86.4	81.3	80.0	80.0	78.7	80.0	80.0	142.5°	406.0
87.7	86.4	85.2	82.6	78.7	76.1	74.8	72.3	72.3	72.3	73.5	145°	426.0
71.0	69.7	69.7	71.0	71.0	69.7	69.7	67.1	67.1	67.1	67.1	147.5°	444.0
65.8	64.5	64.5	63.2	64.5	65.8	64.5	63.2	63.2	61.9	61.9	150°	462.0
61.9	61.9	60.6	59.4	59.4	61.9	60.6	59.4	58.1	58.1	58.1	152.5°	480.0
59.4	58.1	58.1	56.8	56.8	56.8	55.5	54.2	52.9	52.9	52.9	155°	500.0
56.8	56.8	55.5	54.2	52.9	52.9	50.3	49.0	49.0	49.0	50.3	157.5°	515.0
55.5	54.2	54.2	52.9	51.6	49.0	47.7	46.4	46.4	46.4	46.4	160°	527.0
54.2	52.9	51.6	51.6	49.0	47.7	46.4	45.2	45.2	45.2	45.2	162.5°	536.0
52.9	51.6	50.3	49.0	47.7	46.4	45.2	43.9	43.9	43.9	43.9	165°	547.0
50.3	49.0	49.0	47.7	47.7	46.4	45.2	43.9	43.9	43.9	42.6	167.5°	556.0
49.0	47.7	46.4	46.4	46.4	45.2	43.9	42.6	42.6	42.6	42.6	170°	563.0
47.7	46.4	46.4	45.2	45.2	43.9	43.9	42.6	41.3	41.3	40.0	172.5°	566.0
46.4	45.2	45.2	43.9	45.2	43.9	42.6	41.3	40.0	40.0	38.7	175°	569.0
45.2	43.9	43.9	43.9	42.6	42.6	41.3	38.7	38.7	38.7	37.4	177.5°	573.0
42.6	41.3	41.3	42.6	41.3	40.0	40.0	37.4	37.4	36.1	36.1	180°	576.0
38.7	38.7	38.7	40.0	38.7	37.4	37.4	36.1	34.8	33.5	33.5		
36.1	34.8	36.1	36.1	36.1	34.8	36.1	33.5	32.3	31.0	31.0		
31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	29.7	28.4	27.1		
24.5	25.8	25.8	25.8	25.8	27.1	25.8	25.8	25.8	24.5	23.2		
18.1	18.1	19.4	20.6	19.4	20.6	19.4	20.6	19.4	19.4	19.4		
10.3	10.3	11.6	12.9	12.9	14.2	11.6	12.9	12.9	14.2	12.9		
3.9	3.9	3.9	3.9	5.2	5.2	3.9	5.2	5.2	6.5	6.5		
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		

'228513  
 ISC-AF-600-LED-E1-SLL-7050-ULG

REPORT NUMBER: P228513  
 CATALOG NUMBER: ISC-AF-60

**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°	901.9	901.9
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	750.9	750.9
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	589.7	588.4
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	428.4	424.5
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	299.3	289.0
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	216.8	212.9
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	171.6	171.6
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	148.4	148.4
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	136.8	135.5
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	117.4	116.1
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	96.8	96.8
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	87.7	87.7
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	80.0	81.3
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	73.5	73.5
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	65.8	65.8
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	60.6	59.4
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	55.5	55.5
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	51.6	51.6
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	49.0	49.0
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	47.7	47.7
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	45.2	45.2
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	43.9	43.9
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	42.6	43.9
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	41.3	41.3
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	40.0	40.0
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	38.7	38.7
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	37.4	37.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	34.8	34.8
										70°	32.3	32.3
										72.5°	29.7	29.7
										75°	27.1	25.8
										77.5°	23.2	21.9
										80°	19.4	18.1
										82.5°	14.2	12.9
										85°	6.5	6.5
										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



REPORT NUMBER: P228513

CATALOG NUMBER: ISC-AF-600-LED-E1-S

0-LED-E1-SLL-7050-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	112.5°	136.0	136.0	136.0
735.5	738.0	740.6	745.8	743.2	741.9	740.6	748.4	752.2	115°	158.0	158.0	158.0
569.0	567.7	571.6	572.9	569.0	562.6	558.7	560.0	563.8	117.5°	180.5	180.8	181.0
406.4	403.9	402.6	403.9	400.0	393.5	388.4	389.7	393.5	120°	204.0	204.0	204.0
286.4	287.7	290.3	292.9	292.9	292.9	294.2	301.9	311.0	122.5°	228.0	228.0	228.0
215.5	218.1	223.2	227.1	231.0	232.2	233.5	243.9	251.6	125°	253.5	253.8	254.0
174.2	175.5	178.1	180.6	183.2	183.2	184.5	188.4	194.8	127.5°	277.5	277.2	277.0
148.4	148.4	148.4	147.1	145.8	143.2	141.9	140.6	141.9	130°	301.0	301.0	301.0
132.9	131.6	129.0	126.4	125.2	121.3	120.0	116.1	114.8	132.5°	325.0	325.0	325.0
116.1	116.1	116.1	114.8	113.5	112.3	109.7	105.8	103.2	135°	348.0	348.0	348.0
96.8	98.1	98.1	99.4	101.9	101.9	101.9	101.9	98.1	137.5°	369.0	369.0	369.0
87.7	87.7	89.0	89.0	90.3	90.3	90.3	91.6	92.9	140°	390.0	390.0	390.0
81.3	82.6	82.6	83.9	83.9	85.2	85.2	86.4	86.4	142.5°	412.0	412.0	412.0
74.8	76.1	76.1	76.1	78.7	78.7	77.4	78.7	78.7	145°	433.5	433.2	433.0
65.8	65.8	65.8	65.8	65.8	65.8	63.2	61.9	63.2	147.5°	453.0	452.5	452.0
59.4	58.1	56.8	56.8	56.8	58.1	56.8	58.1	58.1	150°	470.0	469.5	469.0
54.2	54.2	54.2	54.2	54.2	54.2	54.2	55.5	56.8	152.5°	486.5	486.2	486.0
51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	52.9	155°	503.5	503.2	503.0
49.0	49.0	50.3	50.3	50.3	50.3	50.3	50.3	51.6	157.5°	518.0	517.5	517.0
47.7	47.7	47.7	47.7	47.7	47.7	47.7	49.0	50.3	160°	531.0	530.5	530.0
46.4	46.4	46.4	46.4	46.4	46.4	46.4	47.7	49.0	162.5°	541.0	540.5	540.0
43.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	46.4	165°	551.5	550.8	550.0
43.9	43.9	43.9	43.9	42.6	42.6	42.6	42.6	43.9	167.5°	559.0	558.5	558.0
42.6	42.6	42.6	41.3	41.3	40.0	40.0	40.0	42.6	170°	564.5	564.2	564.0
40.0	40.0	40.0	38.7	38.7	38.7	38.7	40.0	40.0	172.5°	568.0	567.5	567.0
37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	175°	571.5	570.8	570.0
36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	177.5°	575.5	574.8	574.0
34.8	33.5	33.5	33.5	33.5	34.8	33.5	33.5	33.5	180°	576.0	576.0	576.0
32.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0				
29.7	29.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4				
25.8	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5				
21.9	21.9	20.6	20.6	20.6	20.6	20.6	20.6	20.6				
18.1	16.8	16.8	16.8	16.8	16.8	16.8	15.5	15.5				
12.9	12.9	12.9	11.6	11.6	11.6	11.6	10.3	9.0				
5.2	6.5	6.5	7.7	6.5	6.5	6.5	5.2	2.6				
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				
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: P228513

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-7050-L

SLL-7050-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°	901.9	901.9	901.9	901.9
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	749.6	762.5	763.8	756.1
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	558.7	575.5	574.2	563.8
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	394.8	409.0	407.7	406.4
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	320.0	332.9	336.8	345.8
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	259.3	274.8	278.7	289.0
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	200.0	212.9	216.8	224.5
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	147.1	154.8	157.4	162.6
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	114.8	117.4	118.7	120.0
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	103.2	104.5	104.5	105.8
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	95.5	96.8	96.8	98.1
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	91.6	91.6	91.6	91.6
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	87.7	87.7	87.7	89.0
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	81.3	78.7	81.3	80.0
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	63.2	63.2	64.5	65.8
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	59.4	60.6	60.6	61.9
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	56.8	58.1	59.4	60.6
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	54.2	56.8	56.8	58.1
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	52.9	54.2	55.5	56.8
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	51.6	52.9	54.2	55.5
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	49.0	51.6	52.9	54.2
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	47.7	50.3	50.3	52.9
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	45.2	47.7	47.7	50.3
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	42.6	45.2	46.4	47.7
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	41.3	42.6	43.9	45.2
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	38.7	41.3	42.6	43.9
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	37.4	40.0	40.0	42.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	34.8	37.4	37.4	38.7
								70°	32.3	33.5	34.8	36.1
								72.5°	29.7	31.0	31.0	32.3
								75°	24.5	25.8	27.1	28.4
								77.5°	20.6	20.6	23.2	23.2
								80°	15.5	15.5	16.8	18.1
								82.5°	9.0	9.0	10.3	10.3
								85°	2.6	2.6	2.6	2.6
								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: P228513

CATALOG NUMBER: ISC-AF-600-LED-E1-SLL-7050-ULG

JLG

**CANDELA DISTRIBUTION (continued):**

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
901.9	901.9	901.9	901.9	901.9	901.9	901.9	112.5°	137.0	136.0	135.5	135.0	135.2
771.6	774.2	770.3	770.3	772.9	783.2	783.2	115°	160.0	159.0	158.5	158.0	158.0
584.5	590.9	587.1	588.4	593.5	605.1	611.6	117.5°	182.0	181.0	180.5	180.0	180.2
419.3	424.5	427.1	430.9	446.4	447.7	455.5	120°	206.0	205.0	204.5	204.0	204.0
349.7	357.4	362.6	369.0	381.9	388.4	397.4	122.5°	233.0	231.0	230.0	229.0	228.8
294.2	303.2	308.4	321.3	329.0	336.8	348.4	125°	257.0	255.5	254.8	254.0	254.0
229.7	240.0	245.2	252.9	268.4	276.1	291.6	127.5°	281.0	279.5	278.8	278.0	277.8
166.4	170.3	180.6	193.5	202.6	215.5	223.2	130°	305.0	303.5	302.8	302.0	301.8
122.6	125.2	130.3	139.3	144.5	154.8	162.6	132.5°	329.0	327.5	326.8	326.0	325.8
105.8	107.1	109.7	112.3	114.8	118.7	122.6	135°	351.0	350.0	349.5	349.0	348.8
98.1	99.4	100.6	101.9	104.5	105.8	107.1	137.5°	374.0	372.0	371.0	370.0	369.8
92.9	92.9	94.2	96.8	96.8	99.4	100.6	140°	396.0	394.0	393.0	392.0	391.5
90.3	92.9	95.5	99.4	100.6	103.2	104.5	142.5°	416.0	414.5	413.8	413.0	412.8
77.4	77.4	78.7	81.3	81.3	82.6	83.9	145°	437.0	435.5	434.8	434.0	433.8
65.8	67.1	68.4	69.7	71.0	73.5	74.8	147.5°	456.0	454.5	453.8	453.0	452.8
63.2	63.2	64.5	67.1	68.4	69.7	71.0	150°	473.0	471.0	470.0	469.0	469.0
60.6	61.9	63.2	64.5	65.8	68.4	69.7	152.5°	489.0	487.5	486.8	486.0	486.0
59.4	60.6	61.9	63.2	65.8	67.1	68.4	155°	507.0	505.5	504.8	504.0	503.8
58.1	59.4	60.6	63.2	64.5	67.1	68.4	157.5°	523.0	520.5	519.2	518.0	517.8
56.8	58.1	59.4	61.9	64.5	67.1	69.7	160°	533.0	531.5	530.8	530.0	530.0
55.5	56.8	59.4	61.9	64.5	68.4	74.8	162.5°	540.0	539.0	538.5	538.0	538.5
54.2	56.8	59.4	61.9	65.8	71.0	77.4	165°	550.0	549.0	548.5	548.0	548.5
52.9	55.5	56.8	60.6	64.5	69.7	71.0	167.5°	563.0	561.0	560.0	559.0	558.8
50.3	52.9	54.2	58.1	63.2	64.5	63.2	170°	571.0	568.5	567.2	566.0	565.5
47.7	49.0	52.9	60.6	65.8	60.6	54.2	172.5°	571.0	569.5	568.8	568.0	567.8
46.4	47.7	50.3	55.5	56.8	50.3	49.0	175°	571.0	569.5	568.8	568.0	568.5
43.9	43.9	45.2	45.2	45.2	45.2	45.2	177.5°	577.0	575.5	574.8	574.0	574.0
40.0	40.0	41.3	41.3	41.3	41.3	41.3	180°	576.0	576.0	576.0	576.0	576.0
36.1	36.1	37.4	37.4	37.4	38.7	38.7						
32.3	33.5	33.5	34.8	34.8	34.8	36.1						
28.4	29.7	29.7	29.7	29.7	31.0	31.0						
24.5	24.5	25.8	25.8	25.8	25.8	25.8						
19.4	19.4	19.4	19.4	19.4	19.4	19.4						
11.6	11.6	12.9	11.6	11.6	10.3	10.3						
2.6	2.6	2.6	1.3	1.3	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	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						



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**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°	901.9	901.9	901.9	901.9	901.9	901.9
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	802.5	802.5	805.1	815.4	818.0	824.5
180.5	180.8	181.0	180.8	180.5	180.2	5°	634.8	640.0	647.7	660.6	668.4	682.5
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	473.5	481.3	487.7	501.9	513.5	527.7
228.5	228.2	228.0	228.0	228.0	228.0	10°	410.3	416.8	425.8	434.8	446.4	452.9
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	365.1	374.2	383.2	396.1	407.7	419.3
277.5	277.2	277.0	277.2	277.5	277.8	15°	309.7	320.0	330.3	344.5	361.3	372.9
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	240.0	251.6	265.8	285.1	303.2	317.4
325.5	325.2	325.0	325.0	325.0	325.0	20°	176.8	187.1	200.0	216.8	229.7	254.2
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	130.3	136.8	147.1	160.0	174.2	196.1
369.5	369.2	369.0	369.0	369.0	369.0	25°	109.7	112.3	116.1	123.9	132.9	148.4
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	101.9	103.2	105.8	109.7	114.8	122.6
412.5	412.2	412.0	412.0	412.0	412.0	30°	107.1	107.1	107.1	108.4	111.0	114.8
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	86.4	87.7	87.7	90.3	91.6	96.8
452.5	452.2	452.0	452.5	453.0	453.5	35°	77.4	78.7	80.0	81.3	83.9	85.2
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	73.5	74.8	76.1	76.1	77.4	80.0
486.0	486.0	486.0	486.2	486.5	486.8	40°	72.3	72.3	72.3	72.3	74.8	77.4
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	69.7	69.7	69.7	71.0	74.8	80.0
517.5	517.2	517.0	517.5	518.0	518.5	45°	69.7	69.7	71.0	76.1	77.4	77.4
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	72.3	74.8	76.1	74.8	73.5	73.5
539.0	539.5	540.0	540.5	541.0	541.5	50°	78.7	77.4	72.3	71.0	71.0	68.4
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	77.4	72.3	71.0	68.4	65.8	64.5
558.5	558.2	558.0	558.5	559.0	559.5	55°	69.7	68.4	64.5	61.9	60.6	61.9
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	60.6	59.4	56.8	56.8	58.1	59.4
567.5	567.2	567.0	567.5	568.0	568.5	60°	52.9	52.9	52.9	54.2	55.5	56.8
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	47.7	49.0	49.0	51.6	52.9	54.2
574.0	574.0	574.0	574.8	575.5	576.2	65°	45.2	46.4	47.7	47.7	49.0	50.3
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	42.6	42.6	43.9	45.2	46.4	47.7
						70°	38.7	40.0	41.3	42.6	42.6	43.9
						72.5°	36.1	36.1	37.4	38.7	38.7	41.3
						75°	31.0	32.3	32.3	32.3	33.5	36.1
						77.5°	27.1	25.8	27.1	27.1	28.4	29.7
						80°	19.4	18.1	18.1	19.4	19.4	19.4
						82.5°	10.3	9.0	10.3	9.0	9.0	10.3
						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



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**CANDELA DISTRIBUTION (continued):**

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
901.9	901.9	901.9	901.9	901.9	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
823.2	834.8	840.0	870.9	903.2	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
680.0	703.2	707.1	763.8	819.3	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
531.6	558.7	566.4	641.3	718.7	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
463.2	476.1	485.1	540.6	629.6	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
429.7	442.6	454.2	499.3	569.0	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
384.5	398.7	412.9	468.4	549.7	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
329.0	348.4	366.4	433.5	540.6	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
267.1	290.3	312.2	396.1	527.7	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
210.3	231.0	255.5	361.3	527.7	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
162.6	183.2	207.7	330.3	541.9	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
132.9	149.7	174.2	305.8	562.6	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
120.0	130.3	145.8	269.7	576.7	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
101.9	109.7	123.9	247.7	585.8	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
90.3	99.4	113.5	233.5	584.5	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
83.9	92.9	109.7	228.4	584.5	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
83.9	92.9	107.1	223.2	588.4	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
82.6	87.7	99.4	220.6	594.8	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
78.7	82.6	94.2	220.6	607.7	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
73.5	78.7	90.3	224.5	632.2	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
69.7	74.8	89.0	224.5	682.5	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
65.8	73.5	87.7	221.9	754.8	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
64.5	71.0	85.2	219.3	843.8	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
63.2	68.4	78.7	212.9	914.8	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
60.6	64.5	72.3	201.3	962.5	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
56.8	60.6	65.8	188.4	972.9	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
54.2	58.1	65.8	178.1	909.6	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
50.3	56.8	67.1	169.0	771.6	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
47.7	56.8	68.4	165.2	612.9								
45.2	55.5	69.7	158.7	461.9								
41.3	50.3	60.6	131.6	312.2								
33.5	38.7	45.2	83.9	165.2								
21.9	23.2	25.8	51.6	91.6								
10.3	12.9	12.9	24.5	41.3								
0.0	0.0	0.0	2.6	9.0								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
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								

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**CANDELA DISTRIBUTION (continued):**

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	901.9	901.9	901.9
154.5	154.0	151.0	149.0	2.5°	934.2	949.6	957.4
177.5	177.0	174.0	172.0	5°	883.8	916.1	926.4
201.2	201.0	198.0	196.0	7.5°	807.7	843.8	858.0
226.2	226.0	223.0	221.0	10°	731.6	776.7	790.9
251.2	251.0	248.0	247.0	12.5°	686.4	740.6	748.4
274.5	274.0	272.0	270.0	15°	668.4	723.8	739.3
298.2	298.0	294.0	293.0	17.5°	686.4	748.4	763.8
321.2	321.0	318.0	317.0	20°	721.3	797.4	821.9
345.0	345.0	341.0	339.0	22.5°	780.6	883.8	914.8
367.0	367.0	364.0	363.0	25°	877.4	1020.6	1047.7
388.2	388.0	386.0	385.0	27.5°	980.6	1129.0	1171.6
410.0	410.0	407.0	408.0	30°	1070.9	1229.6	1264.5
431.2	431.0	428.0	428.0	32.5°	1135.4	1309.6	1349.6
452.2	452.0	448.0	447.0	35°	1211.6	1401.2	1439.9
469.2	469.0	465.0	464.0	37.5°	1299.3	1512.2	1565.1
485.2	485.0	482.0	483.0	40°	1396.1	1627.0	1686.4
503.0	503.0	501.0	502.0	42.5°	1483.8	1734.1	1799.9
519.0	519.0	516.0	517.0	45°	1552.2	1834.8	1886.4
532.0	532.0	529.0	529.0	47.5°	1630.9	1912.2	1970.2
541.0	541.0	538.0	539.0	50°	1739.3	2010.2	2078.6
552.0	552.0	548.0	549.0	52.5°	1898.0	2176.7	2225.7
560.8	561.0	558.0	559.0	55°	2090.2	2378.0	2433.4
566.8	567.0	565.0	566.0	57.5°	2267.0	2565.0	2612.8
568.8	569.0	567.0	569.0	60°	2380.5	2651.5	2691.5
572.0	572.0	569.0	570.0	62.5°	2381.8	2654.1	2704.4
577.8	578.0	574.0	575.0	65°	2287.6	2597.3	2654.1
576.0	576.0	576.0	576.0	67.5°	2048.9	2452.8	2540.5
				70°	1730.2	2168.9	2267.0
				72.5°	1349.6	1704.4	1816.7
				75°	914.8	1131.6	1229.6
				77.5°	581.9	652.9	685.1
				80°	343.2	385.8	402.6
				82.5°	212.9	229.7	246.4
				85°	86.4	61.9	67.1
				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

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**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)