

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: P228531

Luminaire Tested: **ISC-AF-1000-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228531
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-8030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5361.2 lumens
Efficiency: N/A
Efficacy: 75.2 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

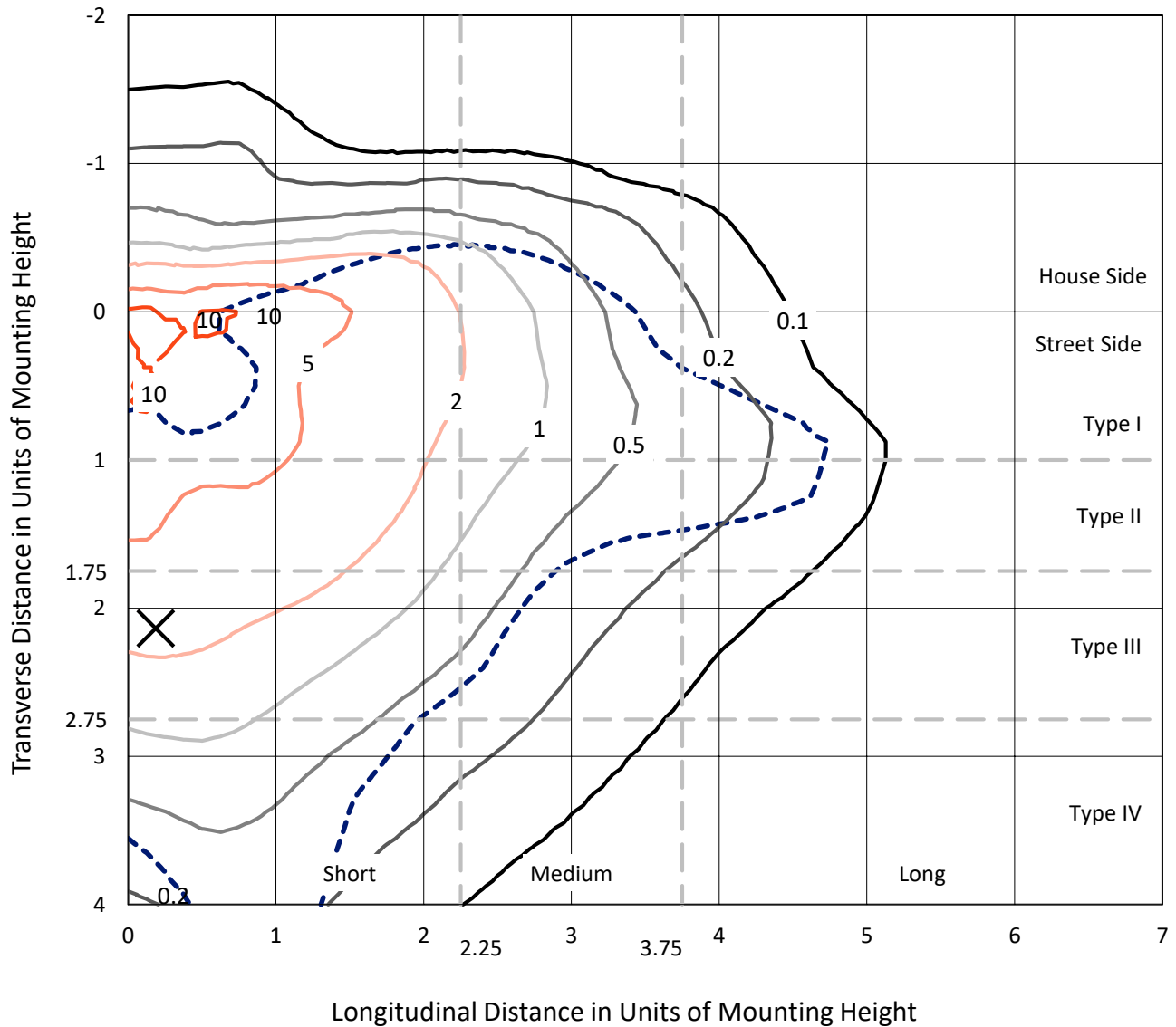
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

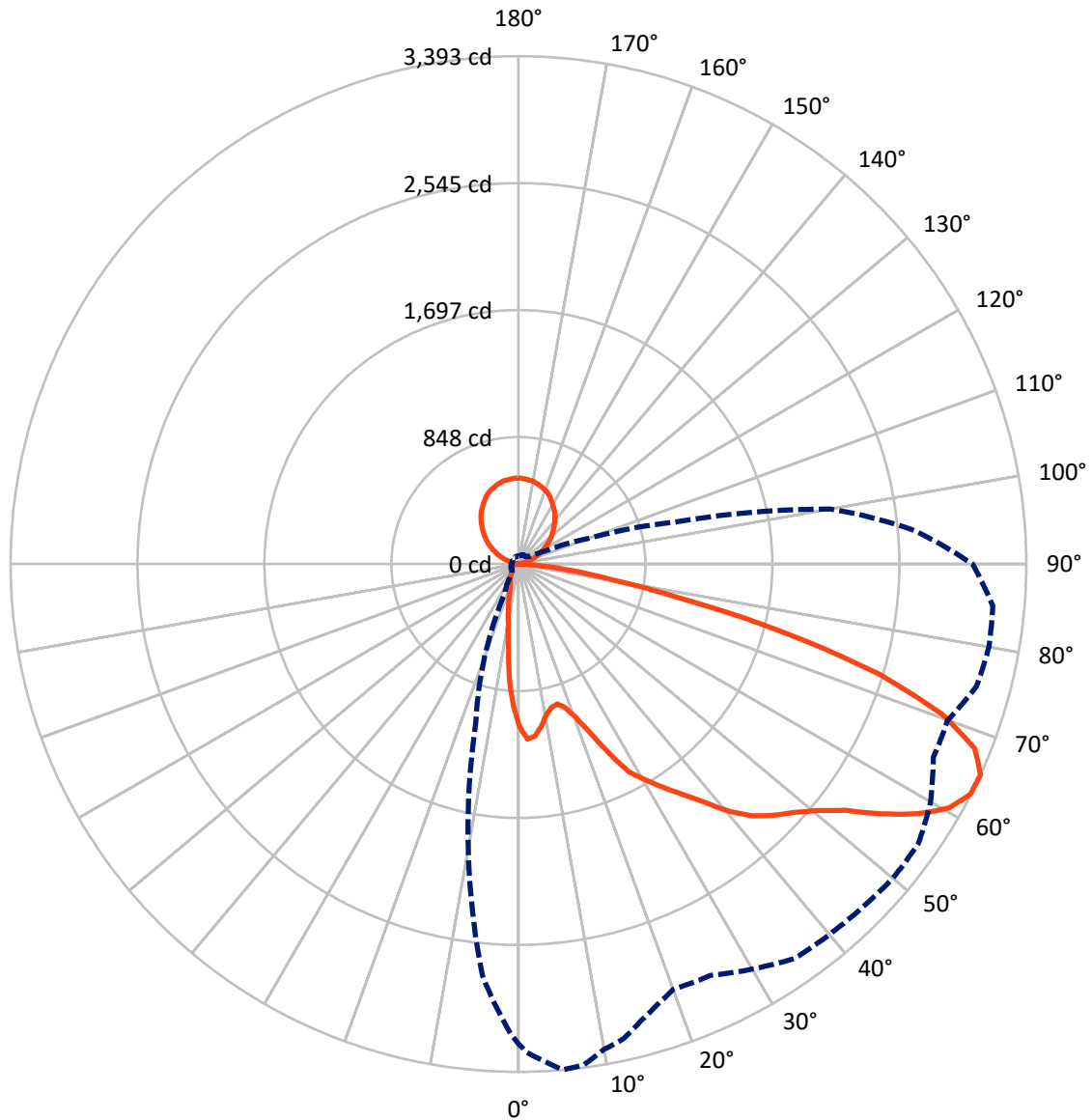
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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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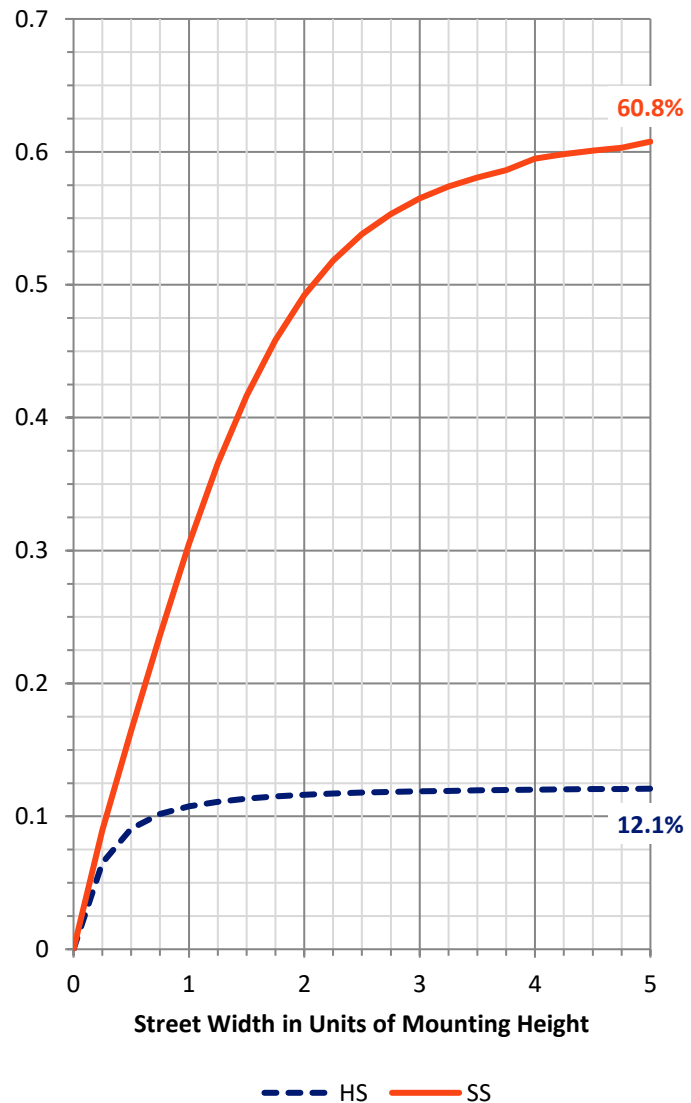
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.3	713.1	1367.4
	% Fixture	12.2	13.3	25.5
Street Side	Lumens	3280.7	713.1	3993.8
	% Fixture	61.2	13.3	74.5
Total	Lumens	3935.0	1426.2	5361.2
	% Fixture	73.4	26.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.6
10°-20°	172.3	3.2
20°-30°	250.5	4.7
30°-40°	370.4	6.9
40°-50°	539.8	10.1
50°-60°	809.1	15.1
60°-70°	1008.3	18.8
70°-80°	590.6	11.0
80°-90°	110.4	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.9
120°-130°	223.9	4.2
130°-140°	265.6	5.0
140°-150°	269.3	5.0
150°-160°	231.1	4.3
160°-170°	155.1	2.9
170°-180°	54.3	1.0
0°-90°	3935.0	73.4
0°-180°	5361.2	100.0



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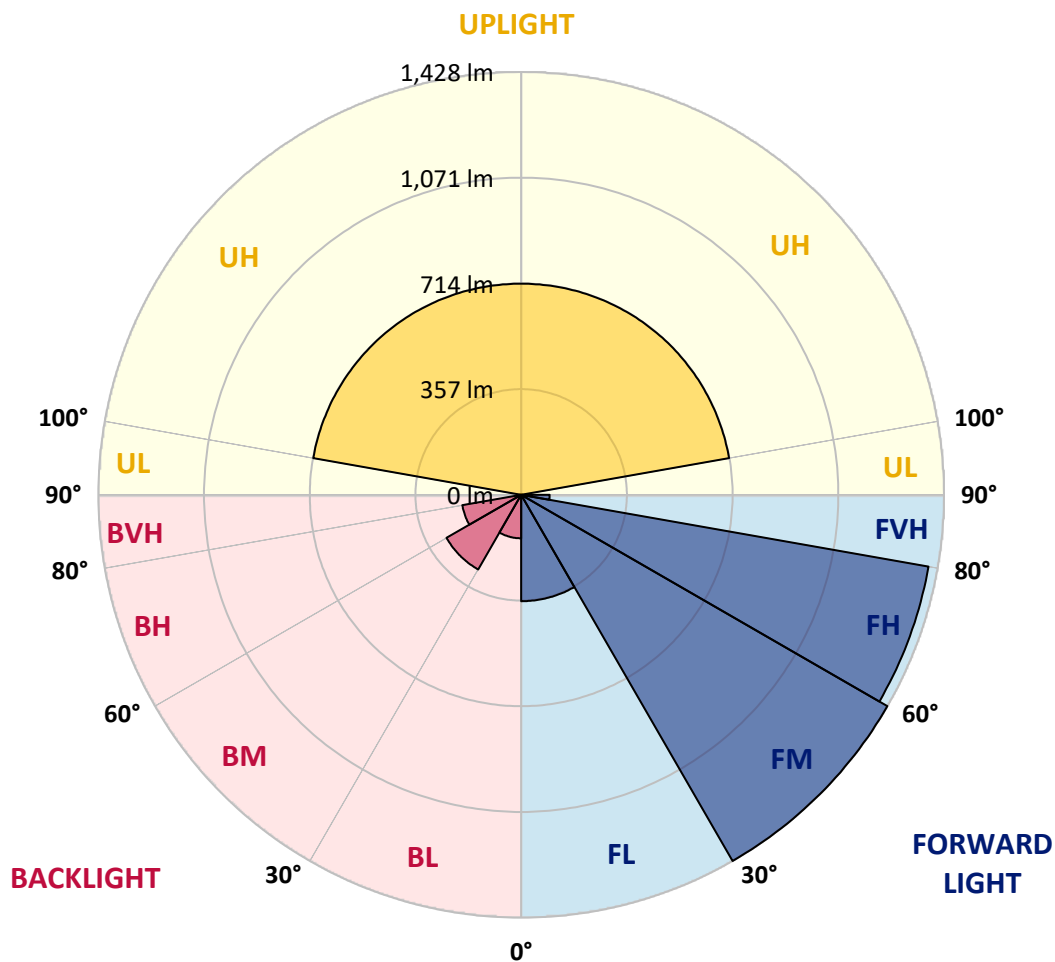
CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.5	6.7			
FM	(30°-60°)	1428.1	26.6			
FH	(60°-80°)	1396.9	26.1			G1/1800
FVH	(80°-90°)	96.2	1.8			G1/100
BL	(0°-30°)	146.9	2.7	B1/500		
BM	(30°-60°)	291.2	5.4	B1/1000		
BH	(60°-80°)	202.0	3.8	B1/500		G1/500
BVH	(80°-90°)	14.2	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	13.3		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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1156.0	1152.8	1171.5	1174.7	1187.1	1187.1	1201.1	1213.6	1218.3	1229.2	1257.2
5°	1118.6	1127.9	1154.4	1180.9	1199.6	1218.3	1238.5	1263.5	1283.7	1318.0	1389.6
7.5°	1036.0	1050.0	1095.2	1121.7	1151.3	1184.0	1208.9	1238.5	1269.7	1327.3	1455.1
10°	955.0	965.9	1023.5	1056.3	1098.3	1132.6	1168.4	1201.1	1235.4	1307.1	1455.1
12.5°	903.6	917.6	983.0	1014.2	1062.5	1098.3	1141.9	1180.9	1221.4	1297.7	1441.1
15°	892.7	908.3	970.6	1009.5	1051.6	1085.9	1124.8	1165.3	1205.8	1280.6	1408.3
17.5°	922.3	941.0	1008.0	1051.6	1084.3	1123.2	1151.3	1190.2	1216.7	1275.9	1336.7
20°	992.4	1014.2	1093.6	1135.7	1162.2	1187.1	1208.9	1232.3	1243.2	1257.2	1246.3
22.5°	1104.5	1131.0	1221.4	1269.7	1288.4	1307.1	1308.6	1311.7	1304.0	1266.6	1182.4
25°	1265.0	1291.5	1394.3	1441.1	1441.1	1441.1	1423.9	1411.5	1375.6	1305.5	1165.3
27.5°	1414.6	1448.8	1571.9	1601.5	1592.2	1578.1	1545.4	1514.3	1462.9	1346.0	1163.7
30°	1526.7	1561.0	1674.7	1698.1	1674.7	1640.5	1589.1	1543.9	1483.1	1366.3	1174.7
32.5°	1629.6	1670.1	1779.1	1782.2	1740.2	1701.2	1643.6	1592.2	1528.3	1403.7	1207.4
35°	1738.6	1779.1	1889.7	1867.9	1807.2	1754.2	1695.0	1649.8	1585.9	1452.0	1260.3
37.5°	1889.7	1925.6	2019.0	1967.6	1889.7	1821.2	1757.3	1698.1	1634.2	1517.4	1349.1
40°	2036.2	2087.6	2173.3	2090.7	1995.7	1903.8	1833.6	1771.3	1701.2	1606.2	1462.9
42.5°	2173.3	2221.6	2301.0	2195.1	2084.5	1992.6	1919.3	1852.3	1785.3	1707.5	1600.0
45°	2277.6	2327.5	2394.5	2282.3	2156.1	2061.1	1981.6	1922.4	1863.2	1810.3	1772.9
47.5°	2378.9	2428.8	2480.2	2358.7	2234.0	2137.4	2044.0	1989.4	1942.7	1914.7	1959.8
50°	2509.8	2544.0	2587.7	2456.8	2324.4	2213.8	2120.3	2078.2	2034.6	2044.0	2195.1
52.5°	2687.4	2717.0	2732.6	2604.8	2456.8	2330.6	2227.8	2170.2	2134.3	2188.8	2444.3
55°	2938.2	2980.3	2946.0	2819.8	2632.8	2489.5	2363.3	2294.8	2273.0	2346.2	2693.6
57.5°	3154.7	3173.4	3148.5	3023.9	2832.3	2671.8	2537.8	2466.2	2441.2	2537.8	2921.1
60°	3249.8	3273.1	3307.4	3199.9	3020.8	2861.9	2746.6	2676.5	2634.4	2746.6	3103.3
62.5°	3265.4	3304.3	3388.4	3333.9	3192.1	3073.7	2969.4	2872.8	2840.0	2925.7	3223.3
65°	3204.6	3263.8	3393.1	3372.8	3293.4	3248.2	3161.0	3086.2	3023.9	3033.2	3217.1
67.5°	3067.5	3136.0	3287.2	3277.8	3287.2	3287.2	3210.8	3148.5	3067.5	2952.2	2980.3
70°	2737.2	2827.6	3002.1	3047.2	3126.7	3126.7	3059.7	2964.7	2871.2	2634.4	2491.1
72.5°	2193.5	2254.3	2522.2	2741.9	2843.2	2802.7	2737.2	2578.3	2372.7	2112.5	1917.8
75°	1484.7	1520.5	1849.2	2251.2	2435.0	2400.7	2293.2	2095.4	1883.5	1593.7	1347.6
77.5°	827.2	874.0	1120.1	1434.8	1682.5	1677.9	1663.8	1537.6	1369.4	1129.5	1001.7
80°	486.1	501.6	630.9	860.0	1073.4	1022.0	986.1	886.4	800.8	691.7	789.9
82.5°	297.6	282.0	358.3	523.5	634.1	612.3	551.5	514.1	473.6	444.0	525.0
85°	81.0	73.2	146.4	219.7	269.5	291.3	291.3	288.2	258.6	194.7	233.7
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1268.1	1269.7	1265.0	1275.9	1263.5	1257.2	1238.5	1238.5	1222.9	1210.5	1196.5
5°	1416.1	1425.5	1417.7	1419.2	1394.3	1369.4	1332.0	1310.2	1271.2	1229.2	1185.6
7.5°	1515.8	1531.4	1525.2	1498.7	1459.7	1406.8	1344.5	1285.3	1221.4	1152.8	1089.0
10°	1542.3	1559.5	1545.4	1495.6	1431.7	1356.9	1282.1	1202.7	1124.8	1051.6	983.0
12.5°	1504.9	1517.4	1487.8	1433.3	1370.9	1296.2	1218.3	1149.7	1057.8	979.9	900.5
15°	1409.9	1402.1	1399.0	1360.0	1316.4	1255.7	1182.4	1112.3	1026.7	947.2	863.1
17.5°	1307.1	1297.7	1300.8	1285.3	1279.0	1251.0	1196.5	1137.3	1060.9	964.3	874.0
20°	1216.7	1207.4	1212.0	1219.8	1243.2	1244.8	1235.4	1196.5	1140.4	1039.1	928.5
22.5°	1138.8	1140.4	1156.0	1177.8	1216.7	1266.6	1305.5	1313.3	1274.4	1156.0	1017.3
25°	1115.5	1107.7	1124.8	1160.6	1226.1	1322.7	1409.9	1453.5	1431.7	1313.3	1143.5
27.5°	1107.7	1096.8	1115.5	1162.2	1266.6	1402.1	1526.7	1592.2	1600.0	1478.4	1279.0
30°	1107.7	1103.0	1121.7	1182.4	1293.1	1428.6	1567.2	1665.4	1696.5	1595.3	1397.4
32.5°	1121.7	1124.8	1157.5	1235.4	1349.1	1487.8	1631.1	1737.1	1793.1	1716.8	1492.5
35°	1152.8	1159.1	1205.8	1296.2	1419.2	1559.5	1690.3	1797.8	1888.2	1847.7	1581.3
37.5°	1219.8	1229.2	1286.8	1378.7	1490.9	1617.1	1744.8	1860.1	1991.0	1973.9	1674.7
40°	1338.2	1338.2	1395.9	1475.3	1567.2	1663.8	1790.0	1925.6	2086.0	2109.4	1790.0
42.5°	1487.8	1481.6	1518.9	1576.6	1640.5	1721.5	1835.2	1986.3	2174.8	2226.2	1877.3
45°	1693.4	1662.3	1682.5	1696.5	1727.7	1777.6	1878.8	2044.0	2246.5	2313.5	1942.7
47.5°	1934.9	1891.3	1874.2	1847.7	1836.8	1855.5	1942.7	2089.1	2315.0	2388.3	2048.6
50°	2201.3	2159.2	2114.1	2042.4	1980.1	1961.4	2014.4	2149.9	2388.3	2481.7	2165.5
52.5°	2478.6	2449.0	2389.8	2277.6	2159.2	2092.3	2117.2	2251.2	2505.1	2626.6	2304.1
55°	2732.6	2741.9	2670.2	2539.4	2369.6	2266.7	2296.3	2430.3	2717.0	2860.3	2536.3
57.5°	3005.2	2980.3	2924.2	2788.6	2603.2	2492.6	2505.1	2667.1	2953.8	3062.8	2766.8
60°	3185.9	3185.9	3125.1	3022.3	2846.3	2743.5	2762.2	2911.7	3143.8	3154.7	2869.6
62.5°	3302.7	3319.9	3271.6	3198.4	3027.0	2941.3	3005.2	3111.1	3237.3	3147.0	2818.2
65°	3246.7	3265.4	3260.7	3179.7	3058.2	3051.9	3167.2	3192.1	3181.2	3033.2	2640.6
67.5°	2992.7	2955.3	2953.8	2911.7	2886.8	3016.1	3162.5	3170.3	2986.5	2810.4	2360.2
70°	2509.8	2445.9	2421.0	2433.4	2547.2	2788.6	2997.4	2938.2	2645.3	2494.2	2009.7
72.5°	1934.9	1858.6	1843.0	1891.3	2067.3	2407.0	2692.0	2609.5	2174.8	1998.8	1556.3
75°	1372.5	1339.8	1341.3	1436.4	1626.4	1953.6	2285.4	2277.6	1610.9	1378.7	1071.8
77.5°	998.6	1004.8	1032.9	1070.3	1233.9	1550.1	1861.7	1841.4	1146.6	947.2	749.3
80°	824.1	833.5	833.5	813.2	855.3	1023.5	1265.0	1350.7	768.0	637.2	523.5
82.5°	592.0	638.7	665.2	632.5	616.9	674.6	793.0	849.1	478.3	401.9	366.1
85°	282.0	322.5	331.8	324.0	372.3	425.3	453.3	464.3	261.7	186.9	239.9
87.5°	0.0	0.0	1.6	12.5	34.3	59.2	59.2	90.4	14.0	4.7	10.9
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



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CATALOG NUMBER: ISC-AF-1000-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1177.8	1157.5	1141.9	1123.2	1107.7	1092.1	1081.2	1057.8	1039.1	997.1	986.1
5°	1149.7	1106.1	1076.5	1048.5	1012.6	987.7	961.2	928.5	892.7	831.9	813.2
7.5°	1039.1	984.6	944.1	903.6	856.8	814.8	775.8	732.2	669.9	604.5	579.5
10°	919.2	861.5	805.4	757.1	701.1	654.3	620.0	588.9	539.0	489.2	456.5
12.5°	821.0	755.6	691.7	643.4	613.8	590.4	565.5	540.6	487.6	431.5	392.6
15°	775.8	699.5	643.4	602.9	576.4	548.4	518.8	490.7	428.4	363.0	316.3
17.5°	782.1	694.8	623.2	568.6	532.8	493.9	459.6	423.7	355.2	277.3	235.2
20°	816.3	699.5	601.3	537.5	486.1	436.2	392.6	347.4	263.3	202.5	172.9
22.5°	860.0	715.1	588.9	506.3	442.4	380.1	324.0	271.1	194.7	158.9	144.9
25°	934.7	750.9	585.8	478.3	400.4	325.6	268.0	211.9	157.3	140.2	132.4
27.5°	1028.2	791.4	588.9	458.0	364.5	282.0	218.1	176.0	141.8	132.4	126.2
30°	1121.7	833.5	574.9	426.9	322.5	241.5	186.9	160.5	140.2	129.3	118.4
32.5°	1204.3	864.6	551.5	394.1	285.1	205.6	158.9	137.1	123.1	110.6	107.5
35°	1263.5	878.7	525.0	373.9	260.2	183.8	140.2	123.1	109.1	96.6	90.4
37.5°	1319.5	880.2	497.0	355.2	250.8	174.5	129.3	113.7	101.3	90.4	84.1
40°	1377.2	874.0	481.4	336.5	236.8	169.8	124.6	105.9	98.1	85.7	79.5
42.5°	1419.2	863.1	475.2	325.6	224.3	157.3	121.5	104.4	93.5	84.1	76.3
45°	1458.2	852.2	475.2	316.3	215.0	149.6	115.3	105.9	90.4	82.6	73.2
47.5°	1504.9	856.8	476.7	308.5	207.2	141.8	109.1	102.8	91.9	81.0	71.7
50°	1584.4	909.8	484.5	303.8	201.0	135.5	104.4	98.1	101.3	79.5	70.1
52.5°	1721.5	993.9	497.0	300.7	194.7	130.9	98.1	95.0	102.8	79.5	68.5
55°	1900.6	1079.6	509.4	292.9	185.4	121.5	95.0	88.8	95.0	79.5	67.0
57.5°	2075.1	1143.5	520.3	282.0	169.8	112.2	90.4	84.1	87.2	77.9	63.9
60°	2176.4	1193.3	531.2	263.3	151.1	101.3	85.7	79.5	77.9	77.9	62.3
62.5°	2204.4	1174.7	525.0	239.9	135.5	93.5	81.0	74.8	70.1	79.5	62.3
65°	2115.6	1076.5	501.6	219.7	124.6	90.4	76.3	71.7	67.0	68.5	59.2
67.5°	1843.0	905.1	437.8	201.0	123.1	88.8	73.2	68.5	62.3	60.8	56.1
70°	1503.4	710.4	363.0	186.9	121.5	88.8	70.1	63.9	59.2	54.5	51.4
72.5°	1156.0	531.2	305.3	180.7	123.1	87.2	65.4	57.6	53.0	49.9	46.7
75°	813.2	375.5	253.9	162.0	115.3	82.6	60.8	51.4	46.7	43.6	40.5
77.5°	588.9	255.5	188.5	130.9	98.1	71.7	53.0	43.6	38.9	37.4	34.3
80°	375.5	157.3	126.2	96.6	71.7	56.1	40.5	34.3	31.2	28.0	26.5
82.5°	216.5	91.9	76.3	65.4	46.7	37.4	29.6	26.5	20.3	18.7	17.1
85°	132.4	57.6	42.1	34.3	29.6	23.4	17.1	15.6	10.9	9.3	7.8
87.5°	29.6	12.5	10.9	7.8	9.3	7.8	4.7	3.1	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
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	124.0
969.0	945.6	947.2	942.5	930.1	909.8	903.6	892.7	894.2	900.5	894.2	115°	147.0
791.4	763.4	766.5	764.9	752.5	738.4	727.5	713.5	708.8	713.5	705.7	117.5°	170.0
560.8	542.1	548.4	562.4	560.8	553.1	543.7	528.1	525.0	526.6	512.5	120°	195.0
428.4	409.7	405.1	403.5	400.4	395.7	383.2	370.8	366.1	367.7	358.3	122.5°	220.0
358.3	342.7	324.0	306.9	291.3	285.1	269.5	261.7	260.2	260.2	255.5	125°	246.0
283.5	271.1	260.2	243.0	230.6	221.2	210.3	204.1	202.5	204.1	204.1	127.5°	269.0
211.9	205.6	201.0	199.4	193.2	186.9	180.7	177.6	176.0	176.0	177.6	130°	292.0
162.0	160.5	160.5	160.5	168.3	174.5	176.0	171.4	169.8	168.3	166.7	132.5°	314.0
140.2	138.7	140.2	149.6	144.9	140.2	140.2	140.2	140.2	140.2	141.8	135°	337.0
129.3	130.9	132.4	127.7	123.1	120.0	118.4	118.4	116.8	116.8	118.4	137.5°	360.0
123.1	121.5	120.0	116.8	113.7	109.1	107.5	105.9	105.9	105.9	105.9	140°	383.0
115.3	113.7	112.2	109.1	104.4	98.1	96.6	96.6	95.0	96.6	96.6	142.5°	406.0
105.9	104.4	102.8	99.7	95.0	91.9	90.4	87.2	87.2	87.2	88.8	145°	426.0
85.7	84.1	84.1	85.7	85.7	84.1	84.1	81.0	81.0	81.0	81.0	147.5°	444.0
79.5	77.9	77.9	76.3	77.9	79.5	77.9	76.3	76.3	74.8	74.8	150°	462.0
74.8	74.8	73.2	71.7	71.7	74.8	73.2	71.7	70.1	70.1	70.1	152.5°	480.0
71.7	70.1	70.1	68.5	68.5	68.5	67.0	65.4	63.9	63.9	63.9	155°	500.0
68.5	68.5	67.0	65.4	63.9	63.9	60.8	59.2	59.2	59.2	60.8	157.5°	515.0
67.0	65.4	65.4	63.9	62.3	59.2	57.6	56.1	56.1	56.1	56.1	160°	527.0
65.4	63.9	62.3	62.3	59.2	57.6	56.1	54.5	54.5	54.5	54.5	162.5°	536.0
63.9	62.3	60.8	59.2	57.6	56.1	54.5	53.0	53.0	53.0	53.0	165°	547.0
60.8	59.2	59.2	57.6	57.6	56.1	54.5	53.0	53.0	53.0	51.4	167.5°	556.0
59.2	57.6	56.1	56.1	56.1	54.5	53.0	51.4	51.4	51.4	51.4	170°	563.0
57.6	56.1	56.1	54.5	54.5	53.0	53.0	51.4	49.9	49.9	48.3	172.5°	566.0
56.1	54.5	54.5	53.0	54.5	53.0	51.4	49.9	48.3	48.3	46.7	175°	569.0
54.5	53.0	53.0	53.0	51.4	51.4	49.9	46.7	46.7	46.7	45.2	177.5°	573.0
51.4	49.9	49.9	51.4	49.9	48.3	48.3	45.2	45.2	43.6	43.6	180°	576.0
46.7	46.7	46.7	48.3	46.7	45.2	45.2	43.6	42.1	40.5	40.5		
43.6	42.1	43.6	43.6	43.6	42.1	43.6	40.5	38.9	37.4	37.4		
37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	35.8	34.3	32.7		
29.6	31.2	31.2	31.2	31.2	32.7	31.2	31.2	31.2	29.6	28.0		
21.8	21.8	23.4	24.9	23.4	24.9	23.4	24.9	23.4	23.4	23.4		
12.5	12.5	14.0	15.6	15.6	17.1	14.0	15.6	15.6	17.1	15.6		
4.7	4.7	4.7	4.7	6.2	6.2	4.7	6.2	6.2	7.8	7.8		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
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		

'228531
 ISC-AF-1000-LED-E1-SLL-8030-ULG

REPORT NUMBER: P228531
 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°	1089.0	1089.0
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	906.7	906.7
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	712.0	710.4
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	517.2	512.5
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	361.4	349.0
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	261.7	257.1
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	207.2	207.2
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	179.2	179.2
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	165.1	163.6
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	141.8	140.2
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	116.8	116.8
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	105.9	105.9
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	96.6	98.1
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	88.8	88.8
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	79.5	79.5
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	73.2	71.7
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	67.0	67.0
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	62.3	62.3
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	59.2	59.2
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	57.6	57.6
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	54.5	54.5
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	53.0	53.0
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	51.4	53.0
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	49.9	49.9
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	48.3	48.3
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	46.7	46.7
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	45.2	45.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	42.1	42.1
										70°	38.9	38.9
										72.5°	35.8	35.8
										75°	32.7	31.2
										77.5°	28.0	26.5
										80°	23.4	21.8
										82.5°	17.1	15.6
										85°	7.8	7.8
										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

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

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tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	136.0	136.0	136.0
888.0	891.1	894.2	900.5	897.3	895.8	894.2	903.6	908.3	115°	158.0	158.0	158.0
687.0	685.5	690.1	691.7	687.0	679.2	674.6	676.1	680.8	117.5°	180.5	180.8	181.0
490.7	487.6	486.1	487.6	482.9	475.2	468.9	470.5	475.2	120°	204.0	204.0	204.0
345.9	347.4	350.5	353.6	353.6	353.6	355.2	364.5	375.5	122.5°	228.0	228.0	228.0
260.2	263.3	269.5	274.2	278.9	280.4	282.0	294.4	303.8	125°	253.5	253.8	254.0
210.3	211.9	215.0	218.1	221.2	221.2	222.8	227.5	235.2	127.5°	277.5	277.2	277.0
179.2	179.2	179.2	177.6	176.0	172.9	171.4	169.8	171.4	130°	301.0	301.0	301.0
160.5	158.9	155.8	152.7	151.1	146.4	144.9	140.2	138.7	132.5°	325.0	325.0	325.0
140.2	140.2	140.2	138.7	137.1	135.5	132.4	127.7	124.6	135°	348.0	348.0	348.0
116.8	118.4	118.4	120.0	123.1	123.1	123.1	123.1	118.4	137.5°	369.0	369.0	369.0
105.9	105.9	107.5	107.5	109.1	109.1	109.1	110.6	112.2	140°	390.0	390.0	390.0
98.1	99.7	99.7	101.3	101.3	102.8	102.8	104.4	104.4	142.5°	412.0	412.0	412.0
90.4	91.9	91.9	91.9	95.0	95.0	93.5	95.0	95.0	145°	433.5	433.2	433.0
79.5	79.5	79.5	79.5	79.5	79.5	76.3	74.8	76.3	147.5°	453.0	452.5	452.0
71.7	70.1	68.5	68.5	68.5	70.1	68.5	70.1	70.1	150°	470.0	469.5	469.0
65.4	65.4	65.4	65.4	65.4	65.4	65.4	67.0	68.5	152.5°	486.5	486.2	486.0
62.3	62.3	62.3	62.3	62.3	62.3	62.3	63.9	63.9	155°	503.5	503.2	503.0
59.2	59.2	60.8	60.8	60.8	60.8	60.8	60.8	62.3	157.5°	518.0	517.5	517.0
57.6	57.6	57.6	57.6	57.6	57.6	57.6	59.2	60.8	160°	531.0	530.5	530.0
56.1	56.1	56.1	56.1	56.1	56.1	56.1	57.6	59.2	162.5°	541.0	540.5	540.0
53.0	54.5	54.5	54.5	54.5	54.5	54.5	54.5	56.1	165°	551.5	550.8	550.0
53.0	53.0	53.0	53.0	51.4	51.4	51.4	51.4	53.0	167.5°	559.0	558.5	558.0
51.4	51.4	51.4	49.9	49.9	48.3	48.3	48.3	51.4	170°	564.5	564.2	564.0
48.3	48.3	48.3	46.7	46.7	46.7	46.7	48.3	48.3	172.5°	568.0	567.5	567.0
45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	175°	571.5	570.8	570.0
43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	177.5°	575.5	574.8	574.0
42.1	40.5	40.5	40.5	40.5	42.1	40.5	40.5	40.5	180°	576.0	576.0	576.0
38.9	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4				
35.8	35.8	34.3	34.3	34.3	34.3	34.3	34.3	34.3				
31.2	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6				
26.5	26.5	24.9	24.9	24.9	24.9	24.9	24.9	24.9				
21.8	20.3	20.3	20.3	20.3	20.3	20.3	18.7	18.7				
15.6	15.6	15.6	14.0	14.0	14.0	14.0	12.5	10.9				
6.2	7.8	7.8	9.3	7.8	7.8	7.8	6.2	3.1				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
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				



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-SLL-8030-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°	1089.0	1089.0	1089.0	1089.0
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	905.1	920.7	922.3	912.9
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	674.6	694.8	693.3	680.8
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	476.7	493.9	492.3	490.7
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	386.4	401.9	406.6	417.5
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	313.1	331.8	336.5	349.0
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	241.5	257.1	261.7	271.1
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	177.6	186.9	190.1	196.3
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	138.7	141.8	143.3	144.9
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	124.6	126.2	126.2	127.7
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	115.3	116.8	116.8	118.4
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	110.6	110.6	110.6	110.6
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	105.9	105.9	105.9	107.5
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	98.1	95.0	98.1	96.6
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	76.3	76.3	77.9	79.5
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	71.7	73.2	73.2	74.8
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	68.5	70.1	71.7	73.2
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	65.4	68.5	68.5	70.1
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	63.9	65.4	67.0	68.5
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	62.3	63.9	65.4	67.0
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	59.2	62.3	63.9	65.4
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	57.6	60.8	60.8	63.9
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	54.5	57.6	57.6	60.8
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	51.4	54.5	56.1	57.6
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	49.9	51.4	53.0	54.5
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	46.7	49.9	51.4	53.0
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	45.2	48.3	48.3	51.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	42.1	45.2	45.2	46.7
								70°	38.9	40.5	42.1	43.6
								72.5°	35.8	37.4	37.4	38.9
								75°	29.6	31.2	32.7	34.3
								77.5°	24.9	24.9	28.0	28.0
								80°	18.7	18.7	20.3	21.8
								82.5°	10.9	10.9	12.5	12.5
								85°	3.1	3.1	3.1	3.1
								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



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ULG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	137.0	136.0	135.5	135.0	135.2
931.6	934.7	930.1	930.1	933.2	945.6	945.6	115°	160.0	159.0	158.5	158.0	158.0
705.7	713.5	708.8	710.4	716.6	730.7	738.4	117.5°	182.0	181.0	180.5	180.0	180.2
506.3	512.5	515.7	520.3	539.0	540.6	549.9	120°	206.0	205.0	204.5	204.0	204.0
422.2	431.5	437.8	445.6	461.1	468.9	479.8	122.5°	233.0	231.0	230.0	229.0	228.8
355.2	366.1	372.3	387.9	397.3	406.6	420.6	125°	257.0	255.5	254.8	254.0	254.0
277.3	289.8	296.0	305.3	324.0	333.4	352.1	127.5°	281.0	279.5	278.8	278.0	277.8
201.0	205.6	218.1	233.7	244.6	260.2	269.5	130°	305.0	303.5	302.8	302.0	301.8
148.0	151.1	157.3	168.3	174.5	186.9	196.3	132.5°	329.0	327.5	326.8	326.0	325.8
127.7	129.3	132.4	135.5	138.7	143.3	148.0	135°	351.0	350.0	349.5	349.0	348.8
118.4	120.0	121.5	123.1	126.2	127.7	129.3	137.5°	374.0	372.0	371.0	370.0	369.8
112.2	112.2	113.7	116.8	116.8	120.0	121.5	140°	396.0	394.0	393.0	392.0	391.5
109.1	112.2	115.3	120.0	121.5	124.6	126.2	142.5°	416.0	414.5	413.8	413.0	412.8
93.5	93.5	95.0	98.1	98.1	99.7	101.3	145°	437.0	435.5	434.8	434.0	433.8
79.5	81.0	82.6	84.1	85.7	88.8	90.4	147.5°	456.0	454.5	453.8	453.0	452.8
76.3	76.3	77.9	81.0	82.6	84.1	85.7	150°	473.0	471.0	470.0	469.0	469.0
73.2	74.8	76.3	77.9	79.5	82.6	84.1	152.5°	489.0	487.5	486.8	486.0	486.0
71.7	73.2	74.8	76.3	79.5	81.0	82.6	155°	507.0	505.5	504.8	504.0	503.8
70.1	71.7	73.2	76.3	77.9	81.0	82.6	157.5°	523.0	520.5	519.2	518.0	517.8
68.5	70.1	71.7	74.8	77.9	81.0	84.1	160°	533.0	531.5	530.8	530.0	530.0
67.0	68.5	71.7	74.8	77.9	82.6	90.4	162.5°	540.0	539.0	538.5	538.0	538.5
65.4	68.5	71.7	74.8	79.5	85.7	93.5	165°	550.0	549.0	548.5	548.0	548.5
63.9	67.0	68.5	73.2	77.9	84.1	85.7	167.5°	563.0	561.0	560.0	559.0	558.8
60.8	63.9	65.4	70.1	76.3	77.9	76.3	170°	571.0	568.5	567.2	566.0	565.5
57.6	59.2	63.9	73.2	79.5	73.2	65.4	172.5°	571.0	569.5	568.8	568.0	567.8
56.1	57.6	60.8	67.0	68.5	60.8	59.2	175°	571.0	569.5	568.8	568.0	568.5
53.0	53.0	54.5	54.5	54.5	54.5	54.5	177.5°	577.0	575.5	574.8	574.0	574.0
48.3	48.3	49.9	49.9	49.9	49.9	49.9	180°	576.0	576.0	576.0	576.0	576.0
43.6	43.6	45.2	45.2	45.2	46.7	46.7						
38.9	40.5	40.5	42.1	42.1	42.1	43.6						
34.3	35.8	35.8	35.8	35.8	37.4	37.4						
29.6	29.6	31.2	31.2	31.2	31.2	31.2						
23.4	23.4	23.4	23.4	23.4	23.4	23.4						
14.0	14.0	15.6	14.0	14.0	12.5	12.5						
3.1	3.1	3.1	1.6	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						
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	969.0	969.0	972.1	984.6	987.7	995.5
180.5	180.8	181.0	180.8	180.5	180.2	5°	766.5	772.7	782.1	797.6	807.0	824.1
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	571.7	581.1	588.9	606.0	620.0	637.2
228.5	228.2	228.0	228.0	228.0	228.0	10°	495.4	503.2	514.1	525.0	539.0	546.8
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	440.9	451.8	462.7	478.3	492.3	506.3
277.5	277.2	277.0	277.2	277.5	277.8	15°	373.9	386.4	398.8	416.0	436.2	450.2
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	289.8	303.8	320.9	344.3	366.1	383.2
325.5	325.2	325.0	325.0	325.0	325.0	20°	213.4	225.9	241.5	261.7	277.3	306.9
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	157.3	165.1	177.6	193.2	210.3	236.8
369.5	369.2	369.0	369.0	369.0	369.0	25°	132.4	135.5	140.2	149.6	160.5	179.2
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	123.1	124.6	127.7	132.4	138.7	148.0
412.5	412.2	412.0	412.0	412.0	412.0	30°	129.3	129.3	129.3	130.9	134.0	138.7
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	104.4	105.9	105.9	109.1	110.6	116.8
452.5	452.2	452.0	452.5	453.0	453.5	35°	93.5	95.0	96.6	98.1	101.3	102.8
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	88.8	90.4	91.9	91.9	93.5	96.6
486.0	486.0	486.0	486.2	486.5	486.8	40°	87.2	87.2	87.2	87.2	90.4	93.5
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	84.1	84.1	84.1	85.7	90.4	96.6
517.5	517.2	517.0	517.5	518.0	518.5	45°	84.1	84.1	85.7	91.9	93.5	93.5
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	87.2	90.4	91.9	90.4	88.8	88.8
539.0	539.5	540.0	540.5	541.0	541.5	50°	95.0	93.5	87.2	85.7	85.7	82.6
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	93.5	87.2	85.7	82.6	79.5	77.9
558.5	558.2	558.0	558.5	559.0	559.5	55°	84.1	82.6	77.9	74.8	73.2	74.8
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	73.2	71.7	68.5	68.5	70.1	71.7
567.5	567.2	567.0	567.5	568.0	568.5	60°	63.9	63.9	63.9	65.4	67.0	68.5
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	57.6	59.2	59.2	62.3	63.9	65.4
574.0	574.0	574.0	574.8	575.5	576.2	65°	54.5	56.1	57.6	57.6	59.2	60.8
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	51.4	51.4	53.0	54.5	56.1	57.6
						70°	46.7	48.3	49.9	51.4	51.4	53.0
						72.5°	43.6	43.6	45.2	46.7	46.7	49.9
						75°	37.4	38.9	38.9	38.9	40.5	43.6
						77.5°	32.7	31.2	32.7	32.7	34.3	35.8
						80°	23.4	21.8	21.8	23.4	23.4	23.4
						82.5°	12.5	10.9	12.5	10.9	10.9	12.5
						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



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CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
993.9	1008.0	1014.2	1051.6	1090.5	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
821.0	849.1	853.7	922.3	989.3	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
641.9	674.6	683.9	774.3	867.7	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
559.3	574.9	585.8	652.8	760.3	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
518.8	534.4	548.4	602.9	687.0	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
464.3	481.4	498.5	565.5	663.7	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
397.3	420.6	442.4	523.5	652.8	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
322.5	350.5	377.0	478.3	637.2	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
253.9	278.9	308.5	436.2	637.2	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
196.3	221.2	250.8	398.8	654.3	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
160.5	180.7	210.3	369.2	679.2	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
144.9	157.3	176.0	325.6	696.4	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
123.1	132.4	149.6	299.1	707.3	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
109.1	120.0	137.1	282.0	705.7	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
101.3	112.2	132.4	275.7	705.7	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
101.3	112.2	129.3	269.5	710.4	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
99.7	105.9	120.0	266.4	718.2	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
95.0	99.7	113.7	266.4	733.8	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
88.8	95.0	109.1	271.1	763.4	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
84.1	90.4	107.5	271.1	824.1	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
79.5	88.8	105.9	268.0	911.4	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
77.9	85.7	102.8	264.8	1018.9	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
76.3	82.6	95.0	257.1	1104.5	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
73.2	77.9	87.2	243.0	1162.2	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
68.5	73.2	79.5	227.5	1174.7	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
65.4	70.1	79.5	215.0	1098.3	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
60.8	68.5	81.0	204.1	931.6	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
57.6	68.5	82.6	199.4	740.0								
54.5	67.0	84.1	191.6	557.7								
49.9	60.8	73.2	158.9	377.0								
40.5	46.7	54.5	101.3	199.4								
26.5	28.0	31.2	62.3	110.6								
12.5	15.6	15.6	29.6	49.9								
0.0	0.0	0.0	3.1	10.9								
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								
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°	1089.0	1089.0	1089.0
154.5	154.0	151.0	149.0	2.5°	1127.9	1146.6	1156.0
177.5	177.0	174.0	172.0	5°	1067.2	1106.1	1118.6
201.2	201.0	198.0	196.0	7.5°	975.2	1018.9	1036.0
226.2	226.0	223.0	221.0	10°	883.3	937.9	955.0
251.2	251.0	248.0	247.0	12.5°	828.8	894.2	903.6
274.5	274.0	272.0	270.0	15°	807.0	874.0	892.7
298.2	298.0	294.0	293.0	17.5°	828.8	903.6	922.3
321.2	321.0	318.0	317.0	20°	870.9	962.8	992.4
345.0	345.0	341.0	339.0	22.5°	942.5	1067.2	1104.5
367.0	367.0	364.0	363.0	25°	1059.4	1232.3	1265.0
388.2	388.0	386.0	385.0	27.5°	1184.0	1363.2	1414.6
410.0	410.0	407.0	408.0	30°	1293.1	1484.7	1526.7
431.2	431.0	428.0	428.0	32.5°	1370.9	1581.3	1629.6
452.2	452.0	448.0	447.0	35°	1462.9	1691.9	1738.6
469.2	469.0	465.0	464.0	37.5°	1568.8	1825.9	1889.7
485.2	485.0	482.0	483.0	40°	1685.6	1964.5	2036.2
503.0	503.0	501.0	502.0	42.5°	1791.6	2093.8	2173.3
519.0	519.0	516.0	517.0	45°	1874.2	2215.3	2277.6
532.0	532.0	529.0	529.0	47.5°	1969.2	2308.8	2378.9
541.0	541.0	538.0	539.0	50°	2100.0	2427.2	2509.8
552.0	552.0	548.0	549.0	52.5°	2291.7	2628.2	2687.4
560.8	561.0	558.0	559.0	55°	2523.8	2871.2	2938.2
566.8	567.0	565.0	566.0	57.5°	2737.2	3097.1	3154.7
568.8	569.0	567.0	569.0	60°	2874.3	3201.5	3249.8
572.0	572.0	569.0	570.0	62.5°	2875.9	3204.6	3265.4
577.8	578.0	574.0	575.0	65°	2762.2	3136.0	3204.6
576.0	576.0	576.0	576.0	67.5°	2473.9	2961.6	3067.5
				70°	2089.1	2618.8	2737.2
				72.5°	1629.6	2058.0	2193.5
				75°	1104.5	1366.3	1484.7
				77.5°	702.6	788.3	827.2
				80°	414.4	465.8	486.1
				82.5°	257.1	277.3	297.6
				85°	104.4	74.8	81.0
				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)