

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: P228533

Luminaire Tested: **ISC-AF-1000-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228533
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-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6249.2 lumens
Efficiency: N/A
Efficacy: 87.6 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

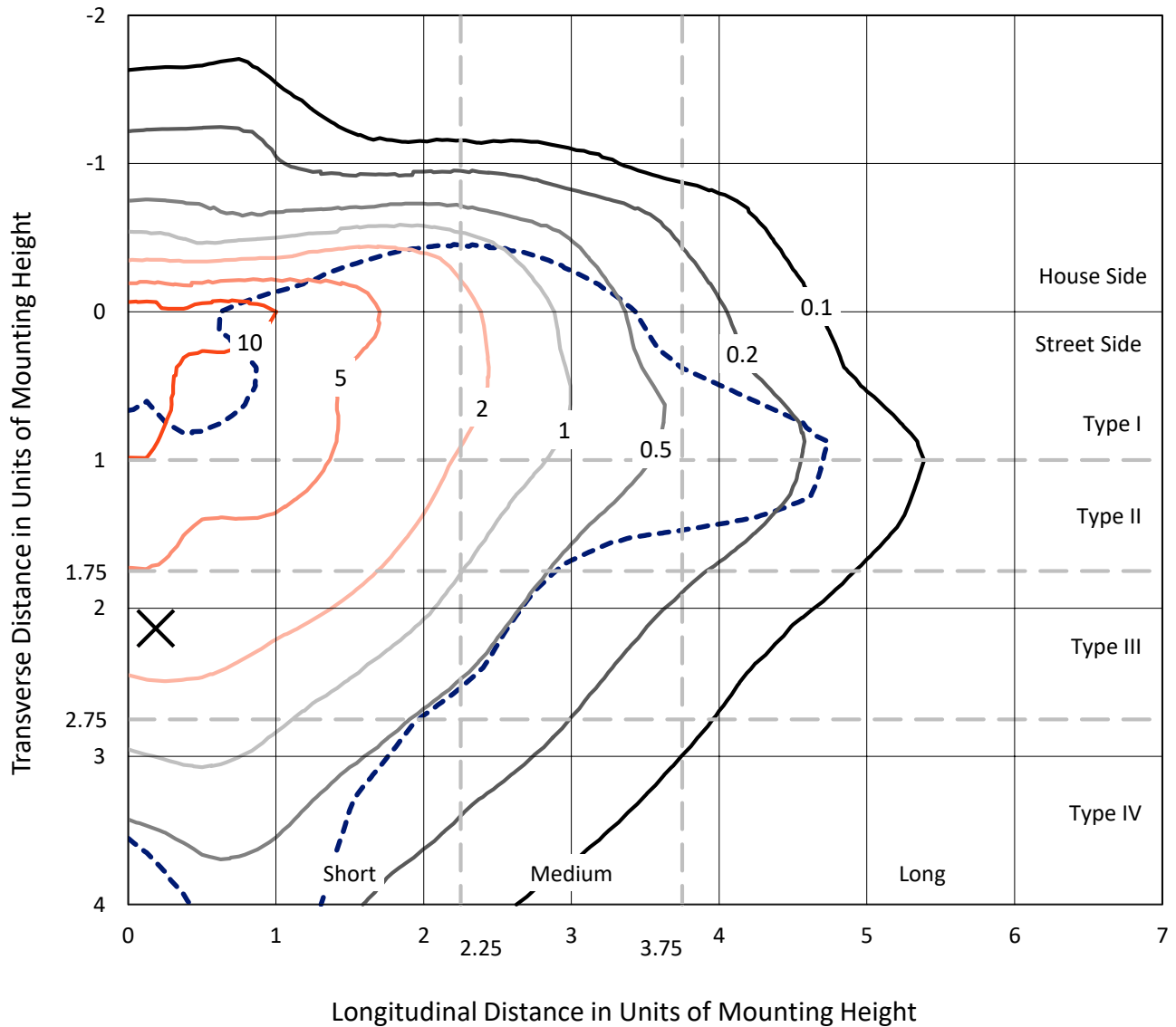
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

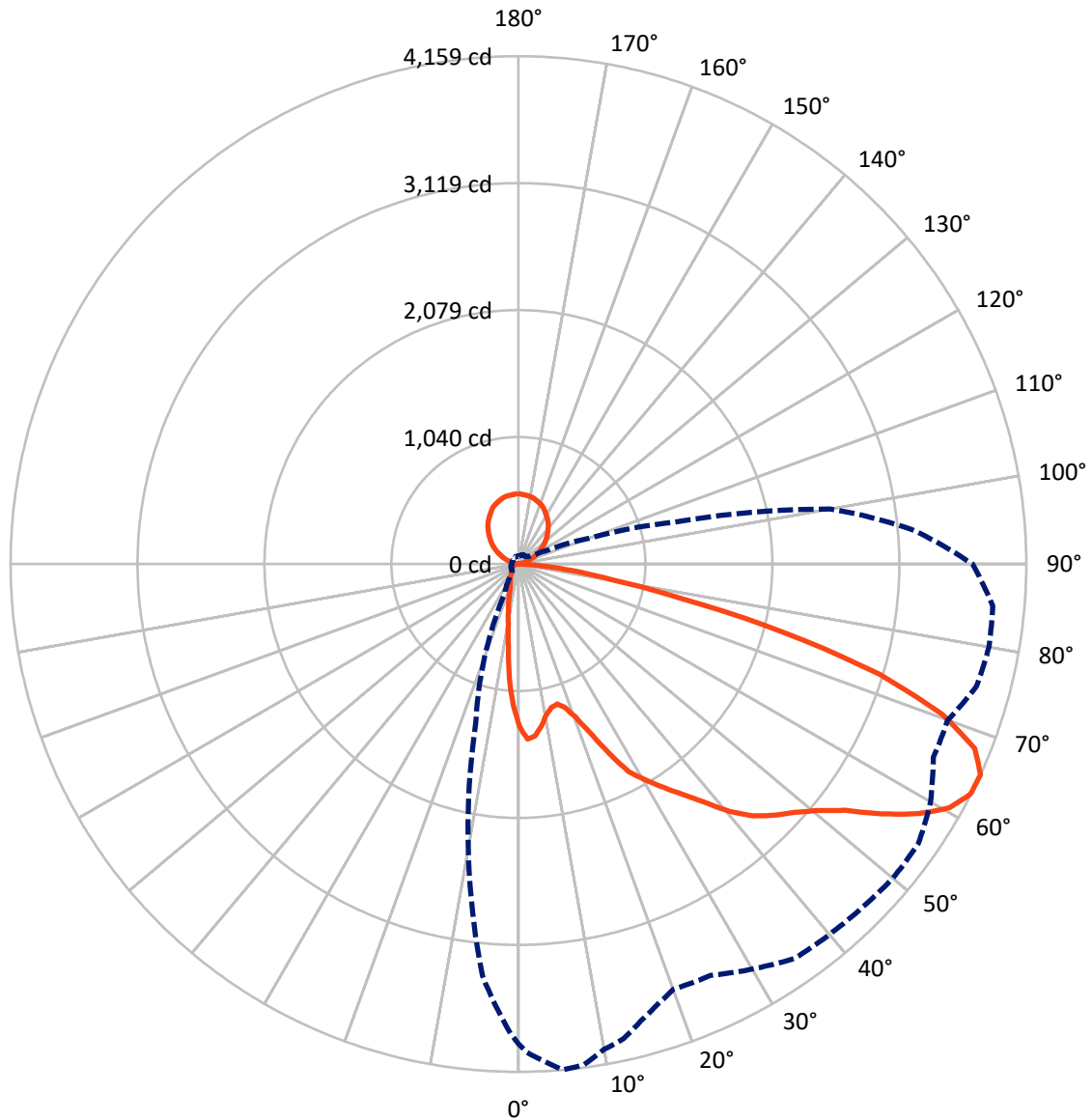
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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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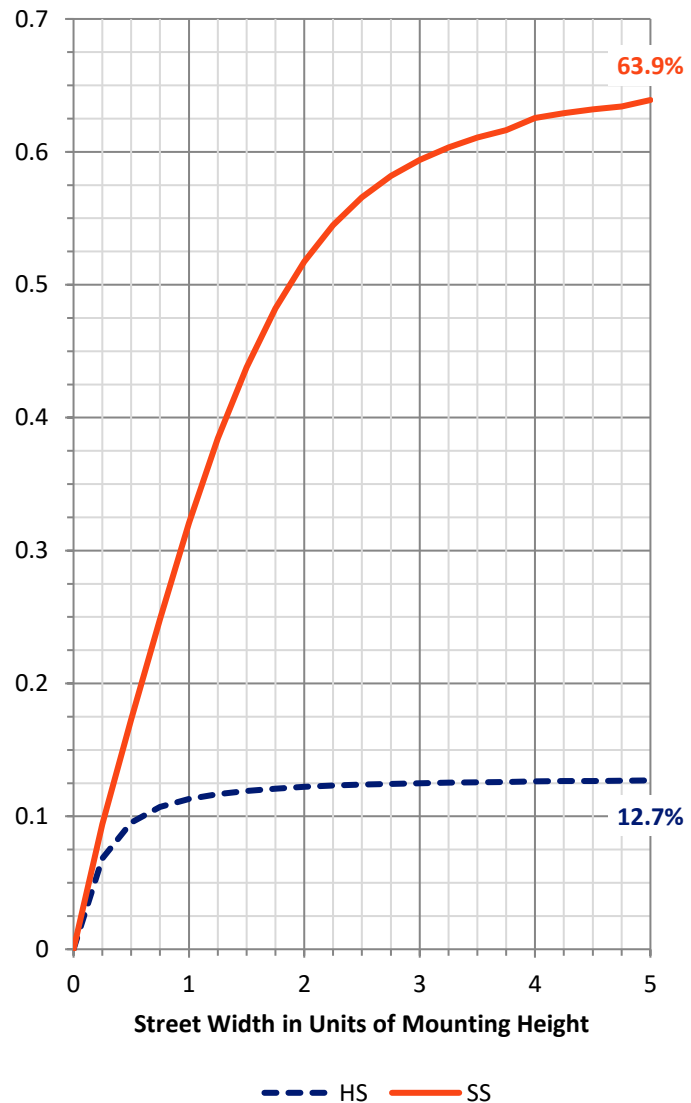
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	802.0	713.1	1515.0
	% Fixture	12.8	11.4	24.2
Street Side	Lumens	4021.0	713.1	4734.1
	% Fixture	64.3	11.4	75.8
Total	Lumens	4823.0	1426.2	6249.2
	% Fixture	77.2	22.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	1.6
10°-20°	211.2	3.4
20°-30°	307.0	4.9
30°-40°	454.0	7.3
40°-50°	661.6	10.6
50°-60°	991.7	15.9
60°-70°	1235.8	19.8
70°-80°	723.9	11.6
80°-90°	135.4	2.2
90°-100°	4.7	0.1
100°-110°	69.0	1.1
110°-120°	153.0	2.4
120°-130°	223.9	3.6
130°-140°	265.6	4.3
140°-150°	269.3	4.3
150°-160°	231.1	3.7
160°-170°	155.1	2.5
170°-180°	54.3	0.9
0°-90°	4823.0	77.2
0°-180°	6249.2	100.0



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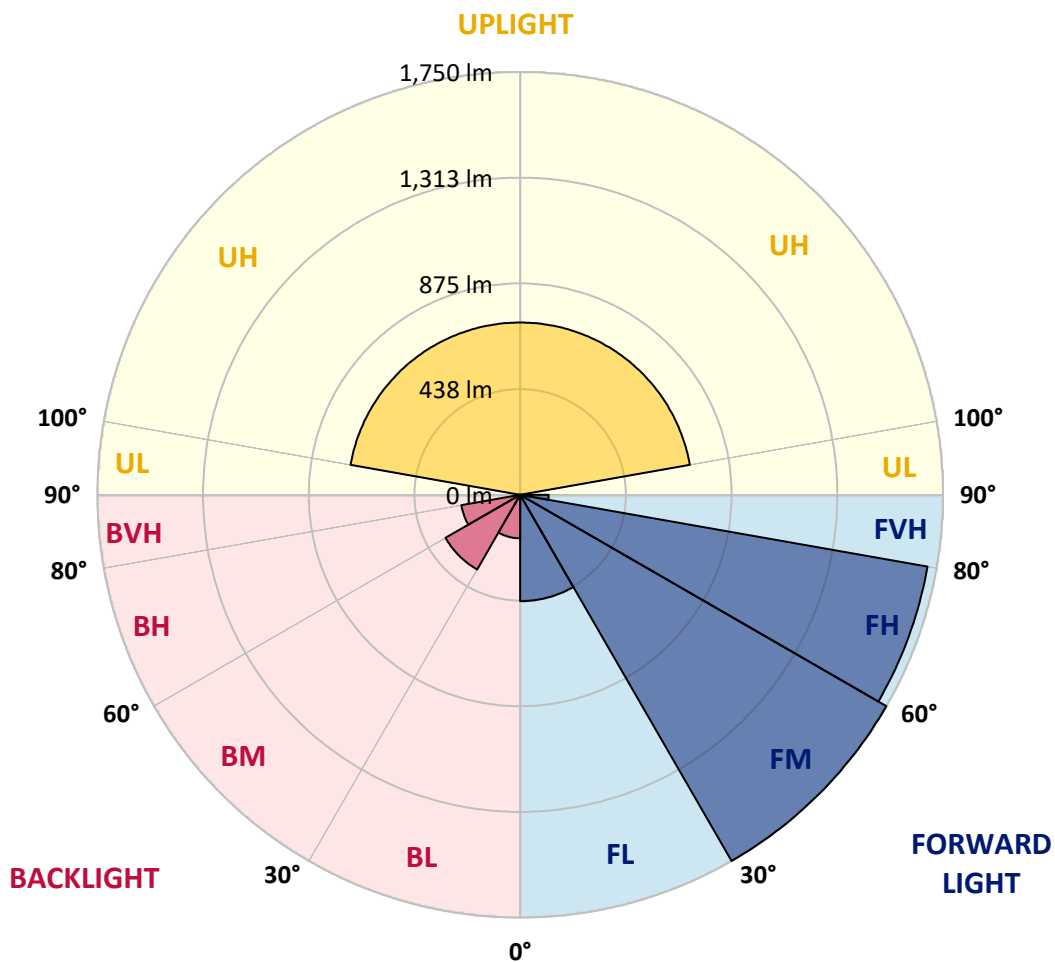
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.6	7.1			
FM (30°-60°)	1750.4	28.0			
FH (60°-80°)	1712.2	27.4			G1/1800
FVH (80°-90°)	117.9	1.9			G2/225
BL (0°-30°)	180.1	2.9	B1/500		
BM (30°-60°)	356.9	5.7	B1/1000		
BH (60°-80°)	247.5	4.0	B1/500		G1/500
BVH (80°-90°)	17.4	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	11.4		U4/1000	

BUG Rating: B1-U5-G2

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°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1416.8	1413.0	1435.9	1439.7	1455.0	1455.0	1472.2	1487.5	1493.2	1506.6	1540.9
5°	1371.0	1382.5	1414.9	1447.4	1470.3	1493.2	1518.0	1548.6	1573.4	1615.4	1703.2
7.5°	1269.8	1287.0	1342.4	1374.8	1411.1	1451.2	1481.7	1518.0	1556.2	1626.9	1783.4
10°	1170.5	1183.9	1254.5	1294.6	1346.2	1388.2	1432.1	1472.2	1514.2	1602.0	1783.4
12.5°	1107.5	1124.7	1204.9	1243.1	1302.3	1346.2	1399.6	1447.4	1497.0	1590.6	1766.3
15°	1094.1	1113.2	1189.6	1237.3	1288.9	1330.9	1378.6	1428.3	1477.9	1569.6	1726.2
17.5°	1130.4	1153.3	1235.4	1288.9	1329.0	1376.7	1411.1	1458.8	1491.3	1563.9	1638.3
20°	1216.3	1243.1	1340.4	1392.0	1424.5	1455.0	1481.7	1510.4	1523.8	1540.9	1527.6
22.5°	1353.8	1386.3	1497.0	1556.2	1579.1	1602.0	1603.9	1607.8	1598.2	1552.4	1449.3
25°	1550.5	1582.9	1709.0	1766.3	1766.3	1766.3	1745.2	1730.0	1686.1	1600.1	1428.3
27.5°	1733.8	1775.8	1926.6	1962.9	1951.5	1934.3	1894.2	1856.0	1793.0	1649.8	1426.4
30°	1871.3	1913.3	2052.7	2081.3	2052.7	2010.7	1947.7	1892.3	1817.8	1674.6	1439.7
32.5°	1997.3	2046.9	2180.6	2184.4	2132.9	2085.1	2014.5	1951.5	1873.2	1720.4	1479.8
35°	2131.0	2180.6	2316.2	2289.4	2215.0	2150.1	2077.5	2022.1	1943.8	1779.6	1544.8
37.5°	2316.2	2360.1	2474.7	2411.7	2316.2	2232.2	2153.9	2081.3	2003.0	1859.8	1653.6
40°	2495.7	2558.7	2663.7	2562.5	2446.0	2333.4	2247.4	2171.1	2085.1	1968.7	1793.0
42.5°	2663.7	2722.9	2820.3	2690.4	2554.9	2442.2	2352.5	2270.4	2188.2	2092.8	1961.0
45°	2791.6	2852.7	2934.8	2797.4	2642.7	2526.2	2428.8	2356.3	2283.7	2218.8	2173.0
47.5°	2915.8	2976.9	3039.9	2890.9	2738.2	2619.8	2505.2	2438.4	2381.1	2346.7	2402.1
50°	3076.1	3118.2	3171.6	3011.2	2848.9	2713.3	2598.8	2547.2	2493.8	2505.2	2690.4
52.5°	3293.8	3330.1	3349.2	3192.6	3011.2	2856.6	2730.5	2659.9	2616.0	2682.8	2995.9
55°	3601.2	3652.8	3610.8	3456.1	3227.0	3051.3	2896.7	2812.6	2785.9	2875.7	3301.5
57.5°	3866.7	3889.6	3859.0	3706.3	3471.4	3274.7	3110.5	3022.7	2992.1	3110.5	3580.2
60°	3983.1	4011.8	4053.8	3922.0	3702.4	3507.7	3366.4	3280.5	3228.9	3366.4	3803.7
62.5°	4002.2	4050.0	4153.1	4086.3	3912.5	3767.4	3639.4	3521.0	3481.0	3586.0	3950.7
65°	3927.8	4000.3	4158.8	4134.0	4036.6	3981.2	3874.3	3782.6	3706.3	3717.7	3943.0
67.5°	3759.7	3843.7	4029.0	4017.5	4029.0	4029.0	3935.4	3859.0	3759.7	3618.4	3652.8
70°	3354.9	3465.7	3679.5	3734.9	3832.3	3832.3	3750.2	3633.7	3519.1	3228.9	3053.2
72.5°	2688.5	2763.0	3091.4	3360.7	3484.8	3435.1	3354.9	3160.2	2908.1	2589.2	2350.5
75°	1819.7	1863.6	2266.5	2759.2	2984.5	2942.5	2810.7	2568.2	2308.5	1953.4	1651.7
77.5°	1013.9	1071.2	1372.9	1758.6	2062.2	2056.5	2039.3	1884.6	1678.4	1384.4	1227.8
80°	595.8	614.8	773.3	1054.0	1315.6	1252.6	1208.7	1086.5	981.5	847.8	968.1
82.5°	364.7	345.6	439.2	641.6	777.2	750.4	675.9	630.1	580.5	544.2	643.5
85°	99.3	89.7	179.5	269.2	330.3	357.1	357.1	353.3	317.0	238.7	286.4
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°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1554.3	1556.2	1550.5	1563.9	1548.6	1540.9	1518.0	1518.0	1498.9	1483.7	1466.5
5°	1735.7	1747.2	1737.6	1739.5	1709.0	1678.4	1632.6	1605.9	1558.1	1506.6	1453.1
7.5°	1857.9	1877.0	1869.4	1836.9	1789.2	1724.2	1647.9	1575.3	1497.0	1413.0	1334.7
10°	1890.4	1911.4	1894.2	1833.1	1754.8	1663.1	1571.5	1474.1	1378.6	1288.9	1204.9
12.5°	1844.5	1859.8	1823.5	1756.7	1680.3	1588.7	1493.2	1409.2	1296.5	1201.1	1103.7
15°	1728.1	1718.5	1714.7	1667.0	1613.5	1539.0	1449.3	1363.4	1258.3	1161.0	1057.8
17.5°	1602.0	1590.6	1594.4	1575.3	1567.7	1533.3	1466.5	1393.9	1300.3	1182.0	1071.2
20°	1491.3	1479.8	1485.6	1495.1	1523.8	1525.7	1514.2	1466.5	1397.7	1273.6	1138.0
22.5°	1395.8	1397.7	1416.8	1443.6	1491.3	1552.4	1600.1	1609.7	1561.9	1416.8	1246.9
25°	1367.2	1357.6	1378.6	1422.5	1502.7	1621.1	1728.1	1781.5	1754.8	1609.7	1401.5
27.5°	1357.6	1344.3	1367.2	1424.5	1552.4	1718.5	1871.3	1951.5	1961.0	1812.1	1567.7
30°	1357.6	1351.9	1374.8	1449.3	1584.9	1751.0	1920.9	2041.2	2079.4	1955.3	1712.8
32.5°	1374.8	1378.6	1418.7	1514.2	1653.6	1823.5	1999.2	2129.1	2197.8	2104.2	1829.3
35°	1413.0	1420.6	1477.9	1588.7	1739.5	1911.4	2071.8	2203.5	2314.3	2264.6	1938.1
37.5°	1495.1	1506.6	1577.2	1689.9	1827.4	1982.0	2138.6	2279.9	2440.3	2419.3	2052.7
40°	1640.2	1640.2	1710.9	1808.3	1920.9	2039.3	2194.0	2360.1	2556.8	2585.4	2194.0
42.5°	1823.5	1815.9	1861.7	1932.4	2010.7	2110.0	2249.3	2434.6	2665.6	2728.6	2300.9
45°	2075.6	2037.4	2062.2	2079.4	2117.6	2178.7	2302.8	2505.2	2753.4	2835.6	2381.1
47.5°	2371.6	2318.1	2297.1	2264.6	2251.3	2274.2	2381.1	2560.6	2837.5	2927.2	2510.9
50°	2698.1	2646.5	2591.1	2503.3	2426.9	2404.0	2468.9	2635.1	2927.2	3041.8	2654.2
52.5°	3038.0	3001.7	2929.1	2791.6	2646.5	2564.4	2595.0	2759.2	3070.4	3219.4	2824.1
55°	3349.2	3360.7	3272.8	3112.4	2904.3	2778.3	2814.5	2978.8	3330.1	3505.8	3108.6
57.5°	3683.4	3652.8	3584.1	3417.9	3190.7	3055.1	3070.4	3269.0	3620.3	3754.0	3391.2
60°	3904.9	3904.9	3830.4	3704.4	3488.6	3362.6	3385.5	3568.8	3853.3	3866.7	3517.2
62.5°	4048.1	4069.1	4009.9	3920.1	3710.1	3605.1	3683.4	3813.2	3967.9	3857.1	3454.2
65°	3979.3	4002.2	3996.5	3897.2	3748.3	3740.6	3881.9	3912.5	3899.1	3717.7	3236.5
67.5°	3668.1	3622.3	3620.3	3568.8	3538.2	3696.7	3876.2	3885.8	3660.4	3444.7	2892.8
70°	3076.1	2997.9	2967.3	2982.6	3122.0	3417.9	3673.8	3601.2	3242.3	3057.1	2463.2
72.5°	2371.6	2278.0	2258.9	2318.1	2533.9	2950.1	3299.6	3198.4	2665.6	2449.8	1907.6
75°	1682.2	1642.1	1644.0	1760.5	1993.5	2394.5	2801.2	2791.6	1974.4	1689.9	1313.7
77.5°	1224.0	1231.6	1266.0	1311.8	1512.3	1899.9	2281.8	2257.0	1405.4	1161.0	918.5
80°	1010.1	1021.6	1021.6	996.7	1048.3	1254.5	1550.5	1655.5	941.4	781.0	641.6
82.5°	725.6	782.9	815.3	775.2	756.1	826.8	971.9	1040.7	586.2	492.6	448.7
85°	345.6	395.3	406.7	397.2	456.4	521.3	555.7	569.0	320.8	229.1	294.1
87.5°	0.0	0.0	1.9	15.3	42.0	72.6	72.6	110.7	17.2	5.7	13.4
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-7050-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1443.6	1418.7	1399.6	1376.7	1357.6	1338.5	1325.2	1296.5	1273.6	1222.1	1208.7
5°	1409.2	1355.7	1319.4	1285.1	1241.2	1210.6	1178.1	1138.0	1094.1	1019.7	996.7
7.5°	1273.6	1206.8	1157.1	1107.5	1050.2	998.6	950.9	897.4	821.1	740.9	710.3
10°	1126.6	1055.9	987.2	928.0	859.3	802.0	760.0	721.8	660.7	599.6	559.5
12.5°	1006.3	926.1	847.8	788.6	752.3	723.7	693.1	662.6	597.7	528.9	481.2
15°	950.9	857.3	788.6	739.0	706.5	672.1	635.9	601.5	525.1	444.9	387.6
17.5°	958.6	851.6	763.8	697.0	653.0	605.3	563.3	519.4	435.4	339.9	288.3
20°	1000.6	857.3	737.1	658.8	595.8	534.6	481.2	425.8	322.7	248.2	212.0
22.5°	1054.0	876.4	721.8	620.6	542.3	465.9	397.2	332.2	238.7	194.8	177.6
25°	1145.7	920.4	718.0	586.2	490.7	399.1	328.4	259.7	192.9	171.9	162.3
27.5°	1260.2	970.0	721.8	561.4	446.8	345.6	267.3	215.8	173.8	162.3	154.7
30°	1374.8	1021.6	704.6	523.2	395.3	296.0	229.1	196.7	171.9	158.5	145.1
32.5°	1476.0	1059.8	675.9	483.1	349.4	252.0	194.8	168.0	150.8	135.6	131.8
35°	1548.6	1076.9	643.5	458.3	318.9	225.3	171.9	150.8	133.7	118.4	110.7
37.5°	1617.3	1078.8	609.1	435.4	307.4	213.9	158.5	139.4	124.1	110.7	103.1
40°	1688.0	1071.2	590.0	412.4	290.2	208.1	152.8	129.8	120.3	105.0	97.4
42.5°	1739.5	1057.8	582.4	399.1	275.0	192.9	148.9	127.9	114.6	103.1	93.6
45°	1787.3	1044.5	582.4	387.6	263.5	183.3	141.3	129.8	110.7	101.2	89.7
47.5°	1844.5	1050.2	584.3	378.1	254.0	173.8	133.7	126.0	112.7	99.3	87.8
50°	1941.9	1115.1	593.8	372.3	246.3	166.1	127.9	120.3	124.1	97.4	85.9
52.5°	2110.0	1218.2	609.1	368.5	238.7	160.4	120.3	116.5	126.0	97.4	84.0
55°	2329.5	1323.3	624.4	359.0	227.2	148.9	116.5	108.8	116.5	97.4	82.1
57.5°	2543.4	1401.5	637.8	345.6	208.1	137.5	110.7	103.1	106.9	95.5	78.3
60°	2667.5	1462.6	651.1	322.7	185.2	124.1	105.0	97.4	95.5	95.5	76.4
62.5°	2701.9	1439.7	643.5	294.1	166.1	114.6	99.3	91.7	85.9	97.4	76.4
65°	2593.1	1319.4	614.8	269.2	152.8	110.7	93.6	87.8	82.1	84.0	72.6
67.5°	2258.9	1109.4	536.6	246.3	150.8	108.8	89.7	84.0	76.4	74.5	68.7
70°	1842.6	870.7	444.9	229.1	148.9	108.8	85.9	78.3	72.6	66.8	63.0
72.5°	1416.8	651.1	374.3	221.5	150.8	106.9	80.2	70.7	64.9	61.1	57.3
75°	996.7	460.2	311.2	198.6	141.3	101.2	74.5	63.0	57.3	53.5	49.6
77.5°	721.8	313.2	231.0	160.4	120.3	87.8	64.9	53.5	47.7	45.8	42.0
80°	460.2	192.9	154.7	118.4	87.8	68.7	49.6	42.0	38.2	34.4	32.5
82.5°	265.4	112.7	93.6	80.2	57.3	45.8	36.3	32.5	24.8	22.9	21.0
85°	162.3	70.7	51.6	42.0	36.3	28.6	21.0	19.1	13.4	11.5	9.5
87.5°	36.3	15.3	13.4	9.5	11.5	9.5	5.7	3.8	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°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	124.0
1187.7	1159.0	1161.0	1155.2	1139.9	1115.1	1107.5	1094.1	1096.0	1103.7	1096.0	115°	147.0
970.0	935.6	939.5	937.5	922.3	905.1	891.7	874.5	868.8	874.5	865.0	117.5°	170.0
687.4	664.5	672.1	689.3	687.4	677.9	666.4	647.3	643.5	645.4	628.2	120°	195.0
525.1	502.2	496.5	494.6	490.7	485.0	469.7	454.5	448.7	450.6	439.2	122.5°	220.0
439.2	420.1	397.2	376.2	357.1	349.4	330.3	320.8	318.9	318.9	313.2	125°	246.0
347.5	332.2	318.9	297.9	282.6	271.1	257.8	250.1	248.2	250.1	250.1	127.5°	269.0
259.7	252.0	246.3	244.4	236.8	229.1	221.5	217.7	215.8	215.8	217.7	130°	292.0
198.6	196.7	196.7	196.7	206.2	213.9	215.8	210.0	208.1	206.2	204.3	132.5°	314.0
171.9	169.9	171.9	183.3	177.6	171.9	171.9	171.9	171.9	171.9	173.8	135°	337.0
158.5	160.4	162.3	156.6	150.8	147.0	145.1	145.1	143.2	143.2	145.1	137.5°	360.0
150.8	148.9	147.0	143.2	139.4	133.7	131.8	129.8	129.8	129.8	129.8	140°	383.0
141.3	139.4	137.5	133.7	127.9	120.3	118.4	118.4	116.5	118.4	118.4	142.5°	406.0
129.8	127.9	126.0	122.2	116.5	112.7	110.7	106.9	106.9	106.9	108.8	145°	426.0
105.0	103.1	103.1	105.0	105.0	103.1	103.1	99.3	99.3	99.3	99.3	147.5°	444.0
97.4	95.5	95.5	93.6	95.5	97.4	95.5	93.6	93.6	91.7	91.7	150°	462.0
91.7	91.7	89.7	87.8	87.8	91.7	89.7	87.8	85.9	85.9	85.9	152.5°	480.0
87.8	85.9	85.9	84.0	84.0	84.0	82.1	80.2	78.3	78.3	78.3	155°	500.0
84.0	84.0	82.1	80.2	78.3	78.3	74.5	72.6	72.6	72.6	74.5	157.5°	515.0
82.1	80.2	80.2	78.3	76.4	72.6	70.7	68.7	68.7	68.7	68.7	160°	527.0
80.2	78.3	76.4	76.4	72.6	70.7	68.7	66.8	66.8	66.8	66.8	162.5°	536.0
78.3	76.4	74.5	72.6	70.7	68.7	66.8	64.9	64.9	64.9	64.9	165°	547.0
74.5	72.6	72.6	70.7	70.7	68.7	66.8	64.9	64.9	64.9	63.0	167.5°	556.0
72.6	70.7	68.7	68.7	68.7	66.8	64.9	63.0	63.0	63.0	63.0	170°	563.0
70.7	68.7	68.7	66.8	66.8	64.9	64.9	63.0	61.1	61.1	59.2	172.5°	566.0
68.7	66.8	66.8	64.9	66.8	64.9	63.0	61.1	59.2	59.2	57.3	175°	569.0
66.8	64.9	64.9	64.9	63.0	63.0	61.1	57.3	57.3	57.3	55.4	177.5°	573.0
63.0	61.1	61.1	63.0	61.1	59.2	59.2	55.4	55.4	53.5	53.5	180°	576.0
57.3	57.3	57.3	59.2	57.3	55.4	55.4	53.5	51.6	49.6	49.6		
53.5	51.6	53.5	53.5	53.5	51.6	53.5	49.6	47.7	45.8	45.8		
45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	43.9	42.0	40.1		
36.3	38.2	38.2	38.2	38.2	40.1	38.2	38.2	38.2	36.3	34.4		
26.7	26.7	28.6	30.6	28.6	30.6	28.6	30.6	28.6	28.6	28.6		
15.3	15.3	17.2	19.1	19.1	21.0	17.2	19.1	19.1	21.0	19.1		
5.7	5.7	5.7	5.7	7.6	7.6	5.7	7.6	7.6	9.5	9.5		
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		

'228533
 ISC-AF-1000-LED-E1-SLL-7050-ULG

REPORT NUMBER: P228533
 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°	1334.7	1334.7
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	1111.3	1111.3
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	872.6	870.7
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	633.9	628.2
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	443.0	427.7
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	320.8	315.1
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	254.0	254.0
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	219.6	219.6
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	202.4	200.5
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	173.8	171.9
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	143.2	143.2
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	129.8	129.8
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	118.4	120.3
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	108.8	108.8
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	97.4	97.4
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	89.7	87.8
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	82.1	82.1
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	76.4	76.4
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	72.6	72.6
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	70.7	70.7
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	66.8	66.8
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	64.9	64.9
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	63.0	64.9
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	61.1	61.1
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	59.2	59.2
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	57.3	57.3
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	55.4	55.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	51.6	51.6
										70°	47.7	47.7
										72.5°	43.9	43.9
										75°	40.1	38.2
										77.5°	34.4	32.5
										80°	28.6	26.7
										82.5°	21.0	19.1
										85°	9.5	9.5
										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



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tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	136.0	136.0	136.0
1088.4	1092.2	1096.0	1103.7	1099.9	1097.9	1096.0	1107.5	1113.2	115°	158.0	158.0	158.0
842.1	840.2	845.9	847.8	842.1	832.5	826.8	828.7	834.4	117.5°	180.5	180.8	181.0
601.5	597.7	595.8	597.7	591.9	582.4	574.7	576.7	582.4	120°	204.0	204.0	204.0
423.9	425.8	429.6	433.4	433.4	433.4	435.4	446.8	460.2	122.5°	228.0	228.0	228.0
318.9	322.7	330.3	336.1	341.8	343.7	345.6	360.9	372.3	125°	253.5	253.8	254.0
257.8	259.7	263.5	267.3	271.1	271.1	273.1	278.8	288.3	127.5°	277.5	277.2	277.0
219.6	219.6	219.6	217.7	215.8	212.0	210.0	208.1	210.0	130°	301.0	301.0	301.0
196.7	194.8	190.9	187.1	185.2	179.5	177.6	171.9	169.9	132.5°	325.0	325.0	325.0
171.9	171.9	171.9	169.9	168.0	166.1	162.3	156.6	152.8	135°	348.0	348.0	348.0
143.2	145.1	145.1	147.0	150.8	150.8	150.8	150.8	145.1	137.5°	369.0	369.0	369.0
129.8	129.8	131.8	131.8	133.7	133.7	133.7	135.6	137.5	140°	390.0	390.0	390.0
120.3	122.2	122.2	124.1	124.1	126.0	126.0	127.9	127.9	142.5°	412.0	412.0	412.0
110.7	112.7	112.7	112.7	116.5	116.5	114.6	116.5	116.5	145°	433.5	433.2	433.0
97.4	97.4	97.4	97.4	97.4	97.4	93.6	91.7	93.6	147.5°	453.0	452.5	452.0
87.8	85.9	84.0	84.0	84.0	85.9	84.0	85.9	85.9	150°	470.0	469.5	469.0
80.2	80.2	80.2	80.2	80.2	80.2	80.2	82.1	84.0	152.5°	486.5	486.2	486.0
76.4	76.4	76.4	76.4	76.4	76.4	76.4	78.3	78.3	155°	503.5	503.2	503.0
72.6	72.6	74.5	74.5	74.5	74.5	74.5	74.5	76.4	157.5°	518.0	517.5	517.0
70.7	70.7	70.7	70.7	70.7	70.7	70.7	72.6	74.5	160°	531.0	530.5	530.0
68.7	68.7	68.7	68.7	68.7	68.7	68.7	70.7	72.6	162.5°	541.0	540.5	540.0
64.9	66.8	66.8	66.8	66.8	66.8	66.8	66.8	68.7	165°	551.5	550.8	550.0
64.9	64.9	64.9	64.9	63.0	63.0	63.0	63.0	64.9	167.5°	559.0	558.5	558.0
63.0	63.0	63.0	61.1	61.1	59.2	59.2	59.2	63.0	170°	564.5	564.2	564.0
59.2	59.2	59.2	57.3	57.3	57.3	57.3	59.2	59.2	172.5°	568.0	567.5	567.0
55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	175°	571.5	570.8	570.0
53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	177.5°	575.5	574.8	574.0
51.6	49.6	49.6	49.6	49.6	51.6	49.6	49.6	49.6	180°	576.0	576.0	576.0
47.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8				
43.9	43.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0				
38.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3				
32.5	32.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6				
26.7	24.8	24.8	24.8	24.8	24.8	24.8	22.9	22.9				
19.1	19.1	19.1	17.2	17.2	17.2	17.2	15.3	13.4				
7.6	9.5	9.5	11.5	9.5	9.5	9.5	7.6	3.8				
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				
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-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°	1334.7	1334.7	1334.7	1334.7
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	1109.4	1128.5	1130.4	1118.9
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	826.8	851.6	849.7	834.4
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	584.3	605.3	603.4	601.5
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	473.5	492.6	498.4	511.7
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	383.8	406.7	412.4	427.7
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	296.0	315.1	320.8	332.2
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	217.7	229.1	233.0	240.6
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	169.9	173.8	175.7	177.6
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	152.8	154.7	154.7	156.6
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	141.3	143.2	143.2	145.1
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	135.6	135.6	135.6	135.6
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	129.8	129.8	129.8	131.8
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	120.3	116.5	120.3	118.4
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	93.6	93.6	95.5	97.4
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	87.8	89.7	89.7	91.7
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	84.0	85.9	87.8	89.7
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	80.2	84.0	84.0	85.9
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	78.3	80.2	82.1	84.0
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	76.4	78.3	80.2	82.1
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	72.6	76.4	78.3	80.2
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	70.7	74.5	74.5	78.3
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	66.8	70.7	70.7	74.5
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	63.0	66.8	68.7	70.7
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	61.1	63.0	64.9	66.8
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	57.3	61.1	63.0	64.9
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	55.4	59.2	59.2	63.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	51.6	55.4	55.4	57.3
								70°	47.7	49.6	51.6	53.5
								72.5°	43.9	45.8	45.8	47.7
								75°	36.3	38.2	40.1	42.0
								77.5°	30.6	30.6	34.4	34.4
								80°	22.9	22.9	24.8	26.7
								82.5°	13.4	13.4	15.3	15.3
								85°	3.8	3.8	3.8	3.8
								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°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	137.0	136.0	135.5	135.0	135.2
1141.9	1145.7	1139.9	1139.9	1143.8	1159.0	1159.0	115°	160.0	159.0	158.5	158.0	158.0
865.0	874.5	868.8	870.7	878.4	895.5	905.1	117.5°	182.0	181.0	180.5	180.0	180.2
620.6	628.2	632.0	637.8	660.7	662.6	674.0	120°	206.0	205.0	204.5	204.0	204.0
517.5	528.9	536.6	546.1	565.2	574.7	588.1	122.5°	233.0	231.0	230.0	229.0	228.8
435.4	448.7	456.4	475.5	486.9	498.4	515.6	125°	257.0	255.5	254.8	254.0	254.0
339.9	355.2	362.8	374.3	397.2	408.6	431.5	127.5°	281.0	279.5	278.8	278.0	277.8
246.3	252.0	267.3	286.4	299.8	318.9	330.3	130°	305.0	303.5	302.8	302.0	301.8
181.4	185.2	192.9	206.2	213.9	229.1	240.6	132.5°	329.0	327.5	326.8	326.0	325.8
156.6	158.5	162.3	166.1	169.9	175.7	181.4	135°	351.0	350.0	349.5	349.0	348.8
145.1	147.0	148.9	150.8	154.7	156.6	158.5	137.5°	374.0	372.0	371.0	370.0	369.8
137.5	137.5	139.4	143.2	143.2	147.0	148.9	140°	396.0	394.0	393.0	392.0	391.5
133.7	137.5	141.3	147.0	148.9	152.8	154.7	142.5°	416.0	414.5	413.8	413.0	412.8
114.6	114.6	116.5	120.3	120.3	122.2	124.1	145°	437.0	435.5	434.8	434.0	433.8
97.4	99.3	101.2	103.1	105.0	108.8	110.7	147.5°	456.0	454.5	453.8	453.0	452.8
93.6	93.6	95.5	99.3	101.2	103.1	105.0	150°	473.0	471.0	470.0	469.0	469.0
89.7	91.7	93.6	95.5	97.4	101.2	103.1	152.5°	489.0	487.5	486.8	486.0	486.0
87.8	89.7	91.7	93.6	97.4	99.3	101.2	155°	507.0	505.5	504.8	504.0	503.8
85.9	87.8	89.7	93.6	95.5	99.3	101.2	157.5°	523.0	520.5	519.2	518.0	517.8
84.0	85.9	87.8	91.7	95.5	99.3	103.1	160°	533.0	531.5	530.8	530.0	530.0
82.1	84.0	87.8	91.7	95.5	101.2	110.7	162.5°	540.0	539.0	538.5	538.0	538.5
80.2	84.0	87.8	91.7	97.4	105.0	114.6	165°	550.0	549.0	548.5	548.0	548.5
78.3	82.1	84.0	89.7	95.5	103.1	105.0	167.5°	563.0	561.0	560.0	559.0	558.8
74.5	78.3	80.2	85.9	93.6	95.5	93.6	170°	571.0	568.5	567.2	566.0	565.5
70.7	72.6	78.3	89.7	97.4	89.7	80.2	172.5°	571.0	569.5	568.8	568.0	567.8
68.7	70.7	74.5	82.1	84.0	74.5	72.6	175°	571.0	569.5	568.8	568.0	568.5
64.9	64.9	66.8	66.8	66.8	66.8	66.8	177.5°	577.0	575.5	574.8	574.0	574.0
59.2	59.2	61.1	61.1	61.1	61.1	61.1	180°	576.0	576.0	576.0	576.0	576.0
53.5	53.5	55.4	55.4	55.4	57.3	57.3						
47.7	49.6	49.6	51.6	51.6	51.6	53.5						
42.0	43.9	43.9	43.9	43.9	45.8	45.8						
36.3	36.3	38.2	38.2	38.2	38.2	38.2						
28.6	28.6	28.6	28.6	28.6	28.6	28.6						
17.2	17.2	19.1	17.2	17.2	15.3	15.3						
3.8	3.8	3.8	1.9	1.9	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	0.0						
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°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	1187.7	1187.7	1191.5	1206.8	1210.6	1220.1
180.5	180.8	181.0	180.8	180.5	180.2	5°	939.5	947.1	958.6	977.6	989.1	1010.1
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	700.8	712.2	721.8	742.8	760.0	781.0
228.5	228.2	228.0	228.0	228.0	228.0	10°	607.2	616.8	630.1	643.5	660.7	670.2
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	540.4	553.7	567.1	586.2	603.4	620.6
277.5	277.2	277.0	277.2	277.5	277.8	15°	458.3	473.5	488.8	509.8	534.6	551.8
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	355.2	372.3	393.3	422.0	448.7	469.7
325.5	325.2	325.0	325.0	325.0	325.0	20°	261.6	276.9	296.0	320.8	339.9	376.2
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	192.9	202.4	217.7	236.8	257.8	290.2
369.5	369.2	369.0	369.0	369.0	369.0	25°	162.3	166.1	171.9	183.3	196.7	219.6
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	150.8	152.8	156.6	162.3	169.9	181.4
412.5	412.2	412.0	412.0	412.0	412.0	30°	158.5	158.5	158.5	160.4	164.2	169.9
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	127.9	129.8	129.8	133.7	135.6	143.2
452.5	452.2	452.0	452.5	453.0	453.5	35°	114.6	116.5	118.4	120.3	124.1	126.0
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	108.8	110.7	112.7	112.7	114.6	118.4
486.0	486.0	486.0	486.2	486.5	486.8	40°	106.9	106.9	106.9	106.9	110.7	114.6
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	103.1	103.1	103.1	105.0	110.7	118.4
517.5	517.2	517.0	517.5	518.0	518.5	45°	103.1	103.1	105.0	112.7	114.6	114.6
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	106.9	110.7	112.7	110.7	108.8	108.8
539.0	539.5	540.0	540.5	541.0	541.5	50°	116.5	114.6	106.9	105.0	105.0	101.2
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	114.6	106.9	105.0	101.2	97.4	95.5
558.5	558.2	558.0	558.5	559.0	559.5	55°	103.1	101.2	95.5	91.7	89.7	91.7
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	89.7	87.8	84.0	84.0	85.9	87.8
567.5	567.2	567.0	567.5	568.0	568.5	60°	78.3	78.3	78.3	80.2	82.1	84.0
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	70.7	72.6	72.6	76.4	78.3	80.2
574.0	574.0	574.0	574.8	575.5	576.2	65°	66.8	68.7	70.7	70.7	72.6	74.5
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	63.0	63.0	64.9	66.8	68.7	70.7
						70°	57.3	59.2	61.1	63.0	63.0	64.9
						72.5°	53.5	53.5	55.4	57.3	57.3	61.1
						75°	45.8	47.7	47.7	47.7	49.6	53.5
						77.5°	40.1	38.2	40.1	40.1	42.0	43.9
						80°	28.6	26.7	26.7	28.6	28.6	28.6
						82.5°	15.3	13.4	15.3	13.4	13.4	15.3
						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°
1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
1218.2	1235.4	1243.1	1288.9	1336.6	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
1006.3	1040.7	1046.4	1130.4	1212.5	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
786.7	826.8	838.3	949.0	1063.6	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
685.5	704.6	718.0	800.1	931.8	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
635.9	654.9	672.1	739.0	842.1	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
569.0	590.0	611.0	693.1	813.4	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
486.9	515.6	542.3	641.6	800.1	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
395.3	429.6	462.1	586.2	781.0	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
311.2	341.8	378.1	534.6	781.0	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
240.6	271.1	307.4	488.8	802.0	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
196.7	221.5	257.8	452.5	832.5	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
177.6	192.9	215.8	399.1	853.5	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
150.8	162.3	183.3	366.6	866.9	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
133.7	147.0	168.0	345.6	865.0	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
124.1	137.5	162.3	338.0	865.0	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
124.1	137.5	158.5	330.3	870.7	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
122.2	129.8	147.0	326.5	880.3	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
116.5	122.2	139.4	326.5	899.4	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
108.8	116.5	133.7	332.2	935.6	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
103.1	110.7	131.8	332.2	1010.1	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
97.4	108.8	129.8	328.4	1117.0	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
95.5	105.0	126.0	324.6	1248.8	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
93.6	101.2	116.5	315.1	1353.8	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
89.7	95.5	106.9	297.9	1424.5	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
84.0	89.7	97.4	278.8	1439.7	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
80.2	85.9	97.4	263.5	1346.2	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
74.5	84.0	99.3	250.1	1141.9	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
70.7	84.0	101.2	244.4	907.0								
66.8	82.1	103.1	234.9	683.6								
61.1	74.5	89.7	194.8	462.1								
49.6	57.3	66.8	124.1	244.4								
32.5	34.4	38.2	76.4	135.6								
15.3	19.1	19.1	36.3	61.1								
0.0	0.0	0.0	3.8	13.4								
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								
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°	1334.7	1334.7	1334.7
154.5	154.0	151.0	149.0	2.5°	1382.5	1405.4	1416.8
177.5	177.0	174.0	172.0	5°	1308.0	1355.7	1371.0
201.2	201.0	198.0	196.0	7.5°	1195.3	1248.8	1269.8
226.2	226.0	223.0	221.0	10°	1082.7	1149.5	1170.5
251.2	251.0	248.0	247.0	12.5°	1015.8	1096.0	1107.5
274.5	274.0	272.0	270.0	15°	989.1	1071.2	1094.1
298.2	298.0	294.0	293.0	17.5°	1015.8	1107.5	1130.4
321.2	321.0	318.0	317.0	20°	1067.4	1180.0	1216.3
345.0	345.0	341.0	339.0	22.5°	1155.2	1308.0	1353.8
367.0	367.0	364.0	363.0	25°	1298.4	1510.4	1550.5
388.2	388.0	386.0	385.0	27.5°	1451.2	1670.8	1733.8
410.0	410.0	407.0	408.0	30°	1584.9	1819.7	1871.3
431.2	431.0	428.0	428.0	32.5°	1680.3	1938.1	1997.3
452.2	452.0	448.0	447.0	35°	1793.0	2073.7	2131.0
469.2	469.0	465.0	464.0	37.5°	1922.8	2237.9	2316.2
485.2	485.0	482.0	483.0	40°	2066.0	2407.8	2495.7
503.0	503.0	501.0	502.0	42.5°	2195.9	2566.3	2663.7
519.0	519.0	516.0	517.0	45°	2297.1	2715.3	2791.6
532.0	532.0	529.0	529.0	47.5°	2413.6	2829.8	2915.8
541.0	541.0	538.0	539.0	50°	2574.0	2974.9	3076.1
552.0	552.0	548.0	549.0	52.5°	2808.8	3221.3	3293.8
560.8	561.0	558.0	559.0	55°	3093.3	3519.1	3601.2
566.8	567.0	565.0	566.0	57.5°	3354.9	3796.0	3866.7
568.8	569.0	567.0	569.0	60°	3523.0	3923.9	3983.1
572.0	572.0	569.0	570.0	62.5°	3524.9	3927.8	4002.2
577.8	578.0	574.0	575.0	65°	3385.5	3843.7	3927.8
576.0	576.0	576.0	576.0	67.5°	3032.2	3629.9	3759.7
				70°	2560.6	3209.8	3354.9
				72.5°	1997.3	2522.4	2688.5
				75°	1353.8	1674.6	1819.7
				77.5°	861.2	966.2	1013.9
				80°	507.9	570.9	595.8
				82.5°	315.1	339.9	364.7
				85°	127.9	91.7	99.3
				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)