

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: P227730

Luminaire Tested: **ISC-AF-600-LED-E1-T3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-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-T3-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5454.5 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

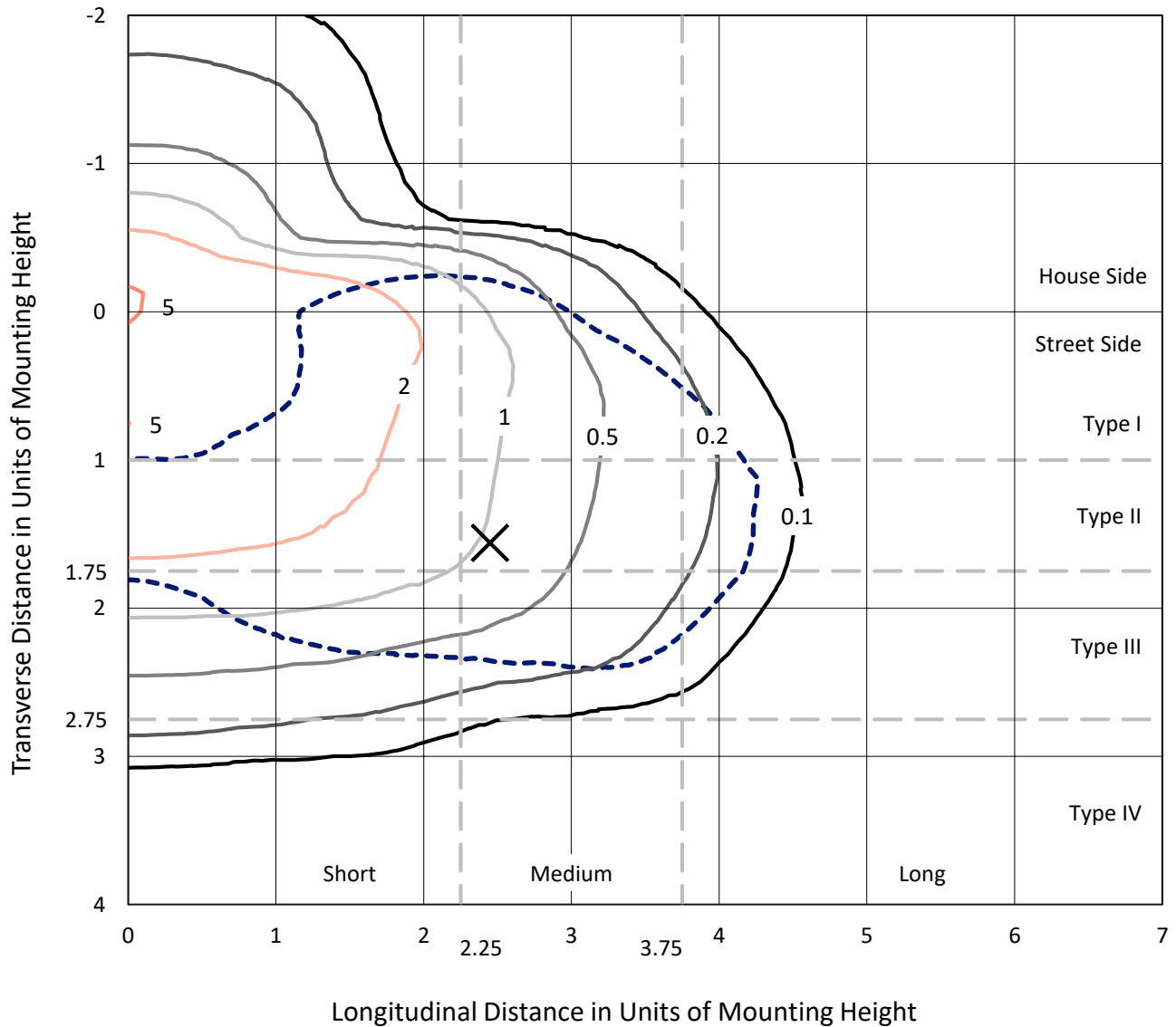
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

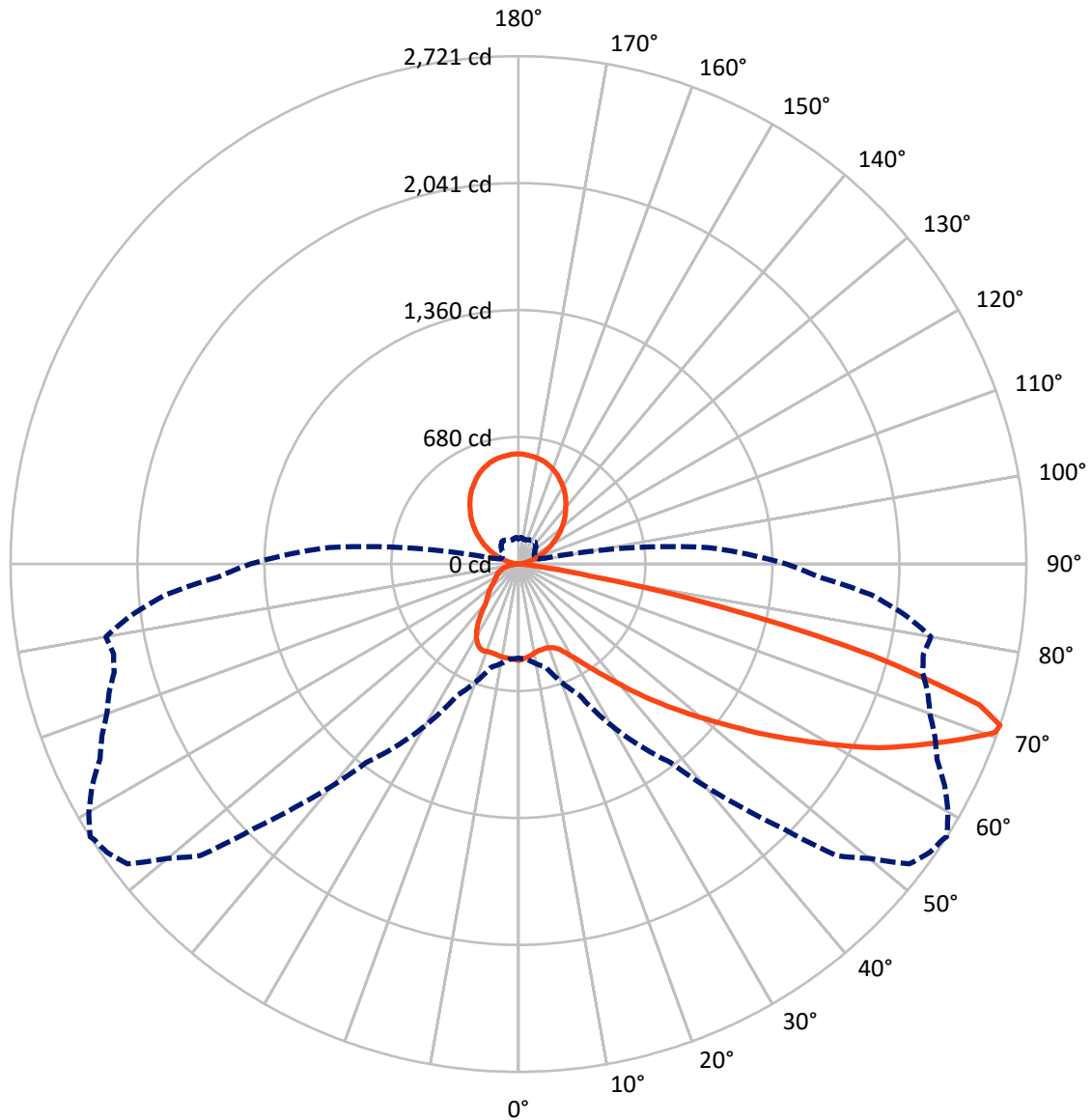
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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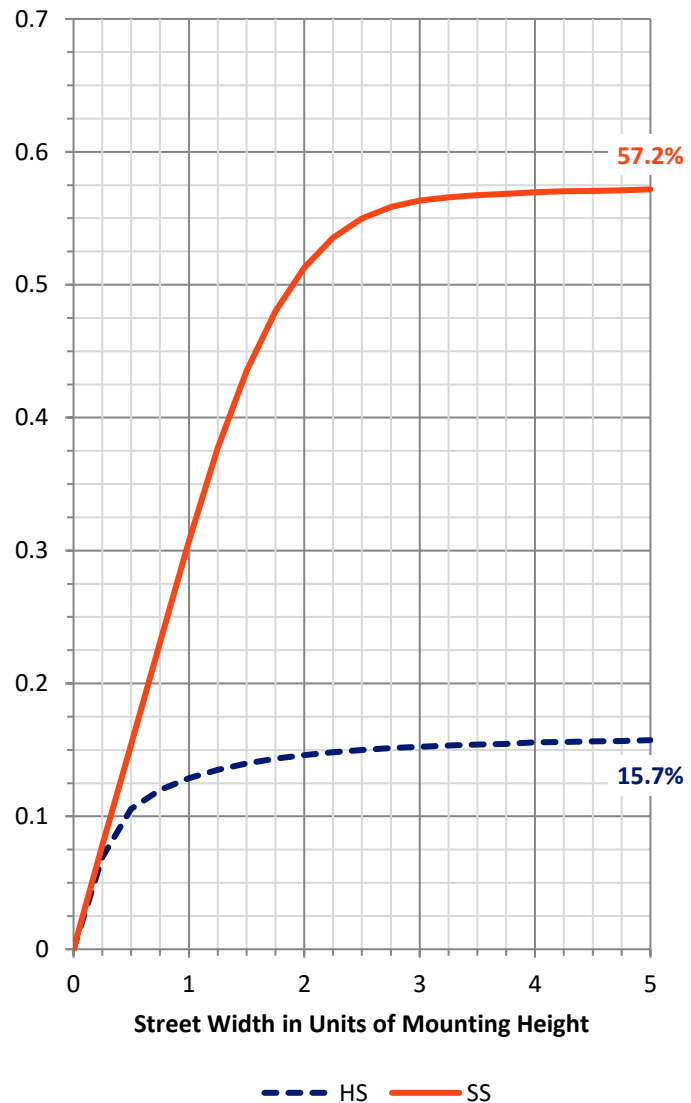
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	869.9	729.4	1599.3
	% Fixture	15.9	13.4	29.3
Street Side	Lumens	3125.8	729.4	3855.2
	% Fixture	57.3	13.4	70.7
Total	Lumens	3995.6	1458.9	5454.5
	% Fixture	73.3	26.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.9
10°-20°	140.0	2.6
20°-30°	232.4	4.3
30°-40°	369.9	6.8
40°-50°	601.0	11.0
50°-60°	901.0	16.5
60°-70°	1074.9	19.7
70°-80°	580.6	10.6
80°-90°	47.3	0.9
90°-100°	4.8	0.1
100°-110°	70.6	1.3
110°-120°	156.6	2.9
120°-130°	229.0	4.2
130°-140°	271.7	5.0
140°-150°	275.5	5.1
150°-160°	236.4	4.3
160°-170°	158.7	2.9
170°-180°	55.6	1.0
0°-90°	3995.6	73.3
0°-180°	5454.5	100.0



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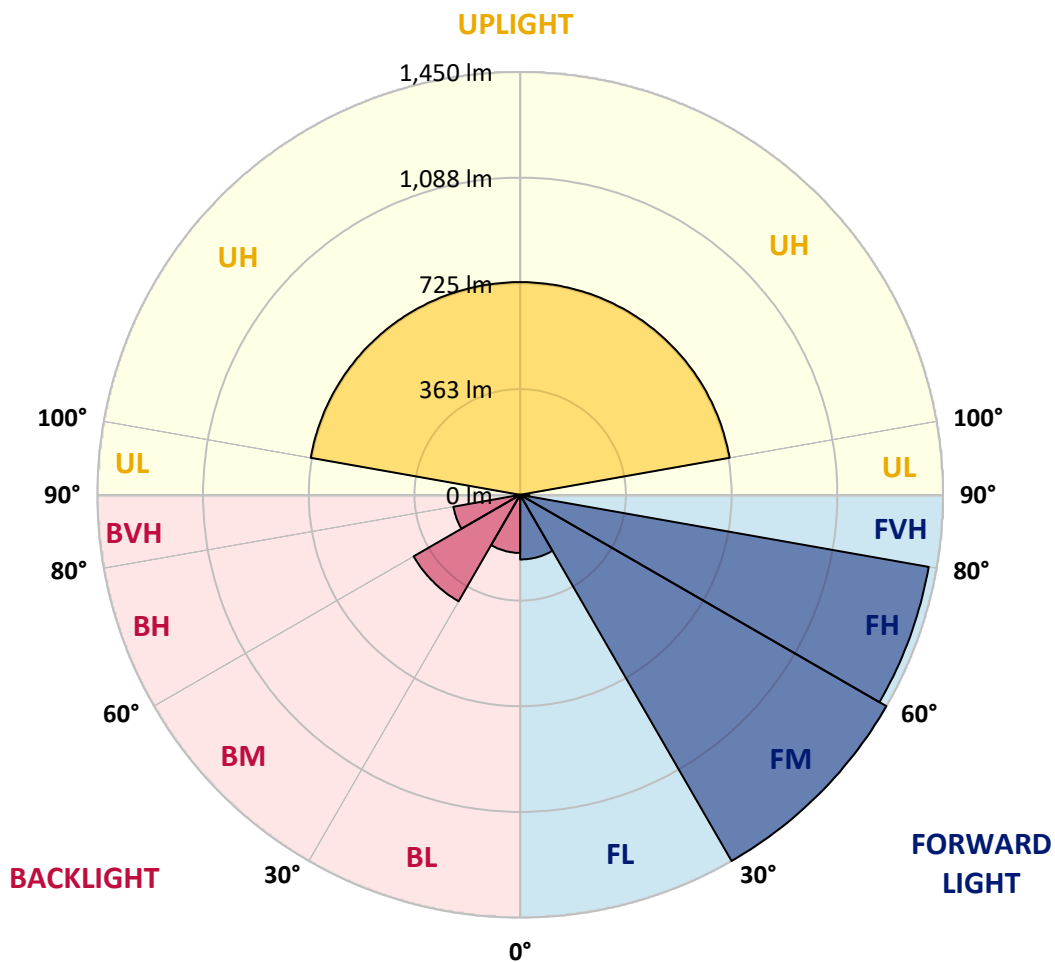
CATALOG NUMBER: ISC-AF-600-LED-E1-T3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	221.7	4.1			
FM	(30°-60°)	1450.2	26.6			
FH	(60°-80°)	1422.8	26.1			G1/1800
FVH	(80°-90°)	31.1	0.6			G1/100
BL	(0°-30°)	199.3	3.7	B1/500		
BM	(30°-60°)	421.8	7.7	B1/1000		
BH	(60°-80°)	232.7	4.3	B1/500		G1/500
BVH	(80°-90°)	16.1	0.3			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	13.4		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2
2.5°	516.2	514.9	513.5	513.5	513.5	512.2	508.3	509.5	513.5	510.9	514.9
5°	514.9	512.2	510.9	510.9	510.9	507.0	505.6	504.3	512.2	505.6	510.9
7.5°	500.3	500.3	497.7	500.3	503.0	499.0	496.3	497.7	504.3	497.7	504.3
10°	489.8	487.1	485.8	485.8	488.5	483.1	480.6	483.1	491.1	483.1	492.4
12.5°	485.8	487.1	483.1	483.1	481.8	475.3	475.3	475.3	481.8	475.3	483.1
15°	492.4	491.1	487.1	484.5	480.6	475.3	473.9	475.3	480.6	472.6	481.8
17.5°	501.7	501.7	495.0	488.5	484.5	479.3	479.3	476.6	480.6	475.3	481.8
20°	525.4	521.5	512.2	501.7	491.1	488.5	483.1	483.1	485.8	480.6	484.5
22.5°	566.3	562.4	546.6	526.7	509.5	503.0	500.3	499.0	496.3	493.8	493.8
25°	620.4	613.9	595.4	571.6	542.6	537.3	532.0	528.0	518.8	518.8	512.2
27.5°	678.5	672.0	652.1	625.7	590.1	582.2	575.6	570.3	554.4	554.4	542.6
30°	744.6	736.6	712.9	683.8	642.9	640.3	631.1	623.1	602.0	600.7	584.8
32.5°	821.1	810.6	786.9	748.5	704.9	706.2	691.7	686.5	658.8	660.1	638.9
35°	908.3	896.4	872.6	822.5	777.5	781.5	768.3	759.1	724.8	724.8	702.4
37.5°	1000.7	1000.7	970.3	912.3	858.1	867.4	851.5	842.3	807.9	813.2	777.5
40°	1103.7	1110.2	1077.3	1011.2	955.7	959.7	947.9	937.3	896.4	905.6	867.4
42.5°	1211.9	1223.8	1194.7	1126.1	1064.1	1077.3	1057.4	1046.9	1003.3	1023.2	978.2
45°	1369.0	1371.7	1317.5	1251.5	1200.0	1211.9	1184.2	1180.2	1126.1	1147.2	1102.3
47.5°	1468.0	1461.4	1421.8	1382.2	1351.8	1375.6	1350.5	1344.0	1281.9	1296.4	1233.1
50°	1535.3	1539.3	1509.0	1505.0	1510.3	1555.1	1551.2	1538.0	1464.0	1453.5	1374.2
52.5°	1596.0	1578.9	1573.6	1610.5	1667.3	1720.2	1741.3	1724.1	1643.6	1614.5	1538.0
55°	1585.5	1560.4	1588.1	1677.9	1790.2	1872.0	1874.6	1862.7	1790.2	1778.2	1695.0
57.5°	1514.2	1519.5	1576.3	1704.3	1894.4	1978.9	1993.4	1978.9	1919.5	1930.1	1861.4
60°	1415.2	1425.8	1515.5	1680.5	1977.6	2050.2	2056.7	2073.9	2034.3	2062.1	2014.5
62.5°	1267.3	1281.9	1396.7	1621.2	1919.5	2027.7	2088.5	2128.0	2120.2	2183.5	2158.4
65°	1164.3	1164.3	1276.5	1552.5	1862.7	2005.3	2096.4	2170.3	2180.9	2281.2	2272.0
67.5°	972.9	979.6	1075.9	1361.0	1794.1	1955.2	2092.4	2217.9	2281.2	2439.6	2447.5
70°	673.3	678.5	741.9	971.6	1449.5	1586.8	1788.8	1993.4	2183.5	2422.4	2546.5
71°	504.3	510.9	573.0	774.9	1227.7	1341.3	1551.2	1763.7	2002.6	2312.9	2452.8
72.5°	246.8	250.8	311.6	497.7	854.2	999.3	1120.8	1324.1	1577.6	1932.7	2130.7
75°	114.9	116.2	129.4	179.5	326.1	388.1	442.2	573.0	730.1	1041.6	1281.9
77.5°	84.5	84.5	92.4	117.5	169.0	171.7	169.0	173.0	208.6	298.4	448.9
80°	62.1	62.1	67.3	79.2	112.2	112.2	108.2	109.6	105.6	109.6	124.1
82.5°	40.9	40.9	43.6	47.6	68.6	68.6	66.0	66.0	63.3	62.1	67.3
85°	23.7	25.1	26.4	22.4	29.1	27.7	25.1	27.7	26.4	23.7	29.1
87.5°	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	1.3	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2
2.5°	509.5	513.5	513.5	508.3	512.2	508.3	510.9	507.0	510.9	504.3	512.2
5°	505.6	509.5	509.5	501.7	509.5	501.7	508.3	499.0	508.3	497.7	508.3
7.5°	495.0	504.3	504.3	493.8	503.0	495.0	503.0	493.8	501.7	489.8	503.0
10°	483.1	492.4	493.8	483.1	493.8	484.5	496.3	484.5	496.3	483.1	497.7
12.5°	475.3	485.8	488.5	476.6	489.8	477.9	492.4	479.3	492.4	477.9	495.0
15°	473.9	483.1	485.8	475.3	487.1	473.9	491.1	475.3	492.4	476.6	496.3
17.5°	475.3	483.1	485.8	473.9	485.8	475.3	489.8	476.6	492.4	477.9	496.3
20°	479.3	484.5	484.5	477.9	487.1	477.9	489.8	476.6	493.8	480.6	497.7
22.5°	491.1	492.4	492.4	487.1	492.4	485.8	495.0	485.8	497.7	487.1	503.0
25°	510.9	509.5	507.0	505.6	507.0	503.0	508.3	501.7	513.5	504.3	520.2
27.5°	545.2	539.9	537.3	537.3	536.0	537.3	537.3	534.7	539.9	537.3	547.9
30°	587.5	578.3	574.3	578.3	573.0	578.3	576.9	575.6	580.8	578.3	587.5
32.5°	642.9	627.1	624.4	632.4	621.7	631.1	623.1	627.1	631.1	633.7	638.9
35°	707.6	689.2	686.5	694.4	682.5	695.7	686.5	691.7	694.4	701.0	704.9
37.5°	784.2	761.7	757.8	768.3	752.5	767.0	753.8	769.7	765.7	774.9	778.9
40°	876.6	850.2	841.0	855.5	837.0	848.8	835.6	852.8	848.8	867.4	871.2
42.5°	990.1	951.9	942.5	957.1	929.4	933.3	922.8	942.5	940.0	965.1	968.9
45°	1107.7	1061.4	1048.2	1062.7	1031.0	1038.9	1023.2	1044.2	1042.9	1062.7	1078.6
47.5°	1238.3	1181.5	1164.3	1180.2	1141.9	1151.1	1135.4	1157.8	1159.1	1181.5	1197.4
50°	1374.2	1314.9	1292.4	1306.9	1271.3	1277.9	1262.0	1289.7	1288.5	1318.8	1330.8
52.5°	1522.2	1461.4	1444.2	1450.9	1408.6	1416.5	1403.3	1437.7	1429.7	1448.2	1471.9
55°	1685.8	1615.9	1596.0	1615.9	1565.7	1576.3	1559.1	1590.8	1577.6	1601.3	1608.0
57.5°	1853.5	1784.8	1769.0	1783.5	1735.9	1743.9	1721.4	1747.9	1737.3	1753.1	1763.7
60°	2031.7	1969.7	1953.8	1969.7	1923.5	1924.8	1886.5	1914.2	1898.4	1918.1	1914.2
62.5°	2202.0	2149.2	2145.2	2167.6	2109.6	2103.0	2056.7	2076.6	2054.2	2067.4	2051.5
65°	2347.3	2316.9	2322.1	2340.6	2289.2	2273.3	2220.5	2231.1	2198.0	2198.0	2178.3
67.5°	2537.3	2504.3	2504.3	2520.1	2455.5	2414.6	2341.9	2332.7	2278.5	2268.0	2221.8
70°	2695.8	2705.0	2694.5	2707.6	2631.0	2547.9	2451.5	2405.3	2334.1	2299.7	2245.6
71°	2639.0	2691.8	2710.3	2720.8	2657.4	2574.3	2473.9	2414.6	2345.9	2299.7	2241.6
72.5°	2381.5	2509.6	2582.2	2582.2	2590.1	2537.3	2441.0	2376.2	2298.4	2237.6	2183.5
75°	1668.6	1877.2	1971.0	1960.4	2029.0	2052.9	2060.7	2033.0	1989.4	1902.3	1864.0
77.5°	743.3	979.6	1120.8	1122.1	1196.0	1260.8	1312.2	1366.4	1346.5	1304.3	1301.7
80°	169.0	306.3	392.1	396.1	463.4	522.7	558.4	612.5	619.2	558.4	524.1
82.5°	72.6	85.8	97.7	96.4	118.8	142.6	169.0	183.5	176.9	146.5	138.6
85°	30.4	39.6	42.2	39.6	48.8	54.1	63.3	64.7	75.3	67.3	71.3
87.5°	0.0	1.3	1.3	0.0	2.7	0.0	2.7	1.3	6.6	2.7	7.9
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°	12.3	13.3	12.1	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	32.2	32.7	32.3	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	464.2	464.4	464.0	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.6	481.8	481.4	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.5	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	543.8	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	554.0	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.5	565.7	565.1	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.4	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.9	582.1	581.6	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.9	586.2	585.5	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	589.6	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2
2.5°	507.0	513.5	507.0	513.5	509.5	513.5	512.2	513.5	507.0	513.5	505.6
5°	497.7	508.3	499.0	507.0	499.0	508.3	508.3	508.3	499.0	509.5	500.3
7.5°	489.8	501.7	489.8	501.7	493.8	503.0	503.0	507.0	496.3	508.3	495.0
10°	481.8	496.3	481.8	499.0	485.8	500.3	501.7	504.3	489.8	505.6	492.4
12.5°	477.9	496.3	479.3	496.3	480.6	500.3	501.7	504.3	488.5	508.3	491.1
15°	477.9	497.7	479.3	497.7	480.6	500.3	503.0	505.6	488.5	509.5	491.1
17.5°	477.9	497.7	481.8	499.0	483.1	501.7	504.3	507.0	491.1	509.5	493.8
20°	481.8	500.3	484.5	503.0	487.1	505.6	507.0	510.9	493.8	510.9	496.3
22.5°	491.1	507.0	493.8	510.9	499.0	513.5	514.9	518.8	505.6	520.2	508.3
25°	507.0	524.1	513.5	526.7	520.2	532.0	534.7	534.7	529.4	538.6	534.7
27.5°	539.9	553.1	545.2	557.1	553.1	562.4	562.4	563.7	567.6	570.3	574.3
30°	582.2	591.5	588.8	595.4	596.7	602.0	602.0	609.9	625.7	609.9	608.6
32.5°	638.9	644.3	645.6	648.1	653.5	657.5	662.7	672.0	685.2	648.1	636.3
35°	708.9	710.2	714.2	718.1	727.4	730.1	747.2	740.6	740.6	682.5	657.5
37.5°	785.5	785.5	796.1	796.1	818.5	819.8	837.0	802.6	782.9	707.6	670.6
40°	881.9	880.6	892.4	895.1	925.5	926.8	924.1	848.8	806.6	714.2	664.0
42.5°	983.5	987.5	1003.3	1008.6	1031.0	1038.9	1006.0	880.6	817.1	710.2	641.6
45°	1094.4	1102.3	1122.1	1136.6	1160.4	1151.1	1072.0	895.1	805.3	686.5	598.0
47.5°	1215.9	1223.8	1239.6	1267.3	1277.9	1267.3	1126.1	900.3	786.9	649.5	534.7
50°	1338.6	1351.8	1374.2	1413.9	1419.1	1392.7	1192.0	920.1	772.3	611.2	462.1
52.5°	1477.2	1490.4	1516.8	1582.8	1569.6	1515.5	1270.0	957.1	776.2	587.5	400.0
55°	1623.7	1642.2	1693.7	1758.5	1729.4	1644.9	1355.8	1011.2	792.1	562.4	331.3
57.5°	1778.2	1798.0	1865.4	1942.0	1885.2	1771.6	1442.9	1053.4	800.0	510.9	256.1
60°	1931.3	1959.1	2046.2	2109.6	2021.1	1879.9	1520.8	1081.2	778.9	413.2	198.0
62.5°	2071.3	2116.2	2213.9	2248.2	2107.0	1948.5	1563.1	1061.4	693.0	285.2	159.8
65°	2170.3	2228.4	2291.8	2287.8	2091.1	1926.1	1531.4	970.3	516.2	188.7	136.0
67.5°	2212.5	2266.7	2281.2	2213.9	1977.6	1827.1	1417.8	781.5	297.1	141.3	118.8
70°	2228.4	2274.6	2192.8	2030.4	1755.8	1584.1	1159.1	497.7	162.3	114.9	103.0
71°	2221.8	2244.3	2088.5	1898.4	1614.5	1435.0	1016.5	378.9	138.6	106.9	97.7
72.5°	2132.0	2100.3	1860.1	1648.9	1369.0	1186.8	790.7	239.0	113.5	96.4	91.0
75°	1742.6	1600.0	1369.0	1169.6	932.0	745.8	429.0	122.8	91.0	83.2	79.2
77.5°	1139.3	1015.2	825.1	670.6	509.5	386.8	175.5	84.5	72.6	70.0	68.6
80°	406.6	326.1	246.8	216.5	163.7	134.6	85.8	64.7	56.8	58.1	56.8
82.5°	114.9	105.6	91.0	84.5	74.0	72.6	55.4	48.8	44.9	47.6	46.2
85°	56.8	48.8	35.6	34.4	26.4	30.4	27.7	33.0	29.1	30.4	27.7
87.5°	4.0	5.3	1.3	4.0	0.0	4.0	5.3	6.6	1.3	5.3	4.0
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°	4.9	4.6	4.3	4.1	4.1	4.1	4.1	4.6	4.9	5.1	5.6
100°	27.4	27.1	26.8	26.6	26.1	25.6	26.6	27.1	27.4	27.6	28.4
102.5°	49.3	49.6	49.9	50.1	49.6	49.1	50.1	49.6	49.3	49.1	49.6
105°	71.1	71.6	72.1	72.6	71.6	70.6	72.6	71.6	71.1	70.6	71.1
107.5°	93.3	93.6	93.9	94.1	93.6	93.1	94.1	93.6	93.3	93.1	93.3



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	115.8	116.1	116.4	116.6	116.1	115.6	116.6	116.1	115.8	115.6	115.8	0°
112.5°	138.6	139.1	139.6	140.1	139.1	138.1	140.1	139.1	138.6	138.1	138.3	2.5°
115°	162.1	162.6	163.2	163.7	163.2	162.6	163.7	162.6	162.1	161.6	161.6	5°
117.5°	184.6	185.2	185.7	186.2	185.2	184.1	186.2	185.2	184.6	184.1	184.3	7.5°
120°	209.2	209.7	210.2	210.7	209.7	208.7	210.7	209.7	209.2	208.7	208.7	10°
122.5°	235.3	236.3	237.3	238.3	237.8	237.3	238.3	236.3	235.3	234.3	234.1	12.5°
125°	260.6	261.4	262.1	262.9	262.4	261.9	262.9	261.4	260.6	259.8	259.8	15°
127.5°	285.2	285.9	286.6	287.4	285.9	284.4	287.4	285.9	285.2	284.4	284.2	17.5°
130°	309.7	310.5	311.2	312.0	311.0	310.0	312.0	310.5	309.7	308.9	308.7	20°
132.5°	334.3	335.0	335.7	336.6	335.5	334.5	336.6	335.0	334.3	333.5	333.3	22.5°
135°	357.5	358.0	358.5	359.1	358.5	358.0	359.1	358.0	357.5	357.0	356.8	25°
137.5°	379.5	380.5	381.6	382.6	381.6	380.5	382.6	380.5	379.5	378.5	378.3	27.5°
140°	402.0	403.0	404.1	405.1	404.1	403.0	405.1	403.0	402.0	401.0	400.5	30°
142.5°	423.3	424.0	424.7	425.5	425.0	424.5	425.5	424.0	423.3	422.5	422.3	32.5°
145°	444.8	445.5	446.2	447.0	446.0	445.0	447.0	445.5	444.8	444.0	443.8	35°
147.5°	464.2	464.9	465.6	466.5	464.9	463.4	466.5	464.9	464.2	463.4	463.2	37.5°
150°	480.8	481.8	482.8	483.9	482.3	480.8	483.9	481.8	480.8	479.8	479.8	40°
152.5°	498.0	498.7	499.4	500.2	498.7	497.2	500.2	498.7	498.0	497.2	497.2	42.5°
155°	516.4	517.1	517.8	518.6	517.6	516.6	518.6	517.1	516.4	515.6	515.4	45°
157.5°	531.1	532.4	533.8	535.0	533.5	531.9	535.0	532.4	531.1	529.9	529.7	47.5°
160°	543.0	543.7	544.4	545.2	544.2	543.2	545.2	543.7	543.0	542.2	542.2	50°
162.5°	550.9	551.4	551.9	552.4	550.9	549.3	552.4	551.4	550.9	550.3	550.9	52.5°
165°	561.1	561.6	562.1	562.6	561.6	560.6	562.6	561.6	561.1	560.6	561.1	55°
167.5°	572.9	573.9	574.9	575.9	574.9	573.9	575.9	573.9	572.9	571.8	571.6	57.5°
170°	580.2	581.5	582.9	584.1	583.1	582.1	584.1	581.5	580.2	579.0	578.5	60°
172.5°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	580.8	62.5°
175°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	581.5	65°
177.5°	588.0	588.7	589.4	590.2	588.7	587.2	590.2	588.7	588.0	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	516.2	110°	116.1
514.9	509.5	516.2	509.5	516.2	512.2	516.2	512.2	516.2	518.8	518.8	112.5°	138.6
512.2	503.0	514.9	508.3	516.2	509.5	514.9	510.9	517.5	520.2	522.7	115°	161.6
510.9	501.7	513.5	504.3	516.2	507.0	514.9	509.5	517.5	520.2	525.4	117.5°	184.6
509.5	497.7	513.5	500.3	514.9	505.6	514.9	507.0	516.2	518.8	520.2	120°	208.7
509.5	496.3	513.5	499.0	514.9	501.7	513.5	501.7	514.9	513.5	509.5	122.5°	233.7
510.9	493.8	513.5	496.3	513.5	497.7	512.2	496.3	509.5	505.6	503.0	125°	259.8
510.9	493.8	512.2	495.0	510.9	496.3	508.3	493.8	505.6	504.3	500.3	127.5°	283.9
513.5	496.3	512.2	500.3	512.2	497.7	507.0	493.8	503.0	495.0	479.3	130°	308.4
521.5	509.5	521.5	509.5	514.9	501.7	505.6	489.8	488.5	475.3	450.2	132.5°	333.0
539.9	534.7	532.0	517.5	513.5	496.3	491.1	472.6	466.1	446.2	411.8	135°	356.5
563.7	551.8	536.0	518.8	501.7	480.6	466.1	451.5	437.0	411.8	368.4	137.5°	378.0
579.5	562.4	529.4	505.6	473.9	456.7	431.7	415.8	394.8	363.0	320.8	140°	400.0
590.1	563.7	513.5	485.8	443.6	421.1	388.1	370.9	340.6	310.3	279.9	142.5°	422.0
592.7	558.4	492.4	462.1	406.6	381.6	338.0	319.5	290.4	269.3	257.5	145°	443.4
582.2	539.9	459.4	419.8	359.1	330.0	289.1	275.9	258.7	250.8	245.5	147.5°	462.9
561.1	504.3	408.0	361.7	299.6	277.2	256.1	256.1	246.8	243.0	233.6	150°	479.8
522.7	451.5	341.9	297.1	254.8	250.8	239.0	244.2	237.6	235.0	221.8	152.5°	497.2
463.4	376.2	275.9	249.5	229.8	232.3	224.4	229.8	225.8	224.4	208.6	155°	515.1
386.8	299.6	232.3	223.1	209.9	213.9	207.2	213.9	209.9	211.2	199.4	157.5°	529.4
308.9	243.0	205.9	200.7	191.4	194.1	190.1	196.7	195.4	200.7	194.1	160°	542.2
246.8	207.2	183.5	179.5	174.2	175.5	174.2	180.9	182.2	192.7	192.7	162.5°	551.4
204.6	178.2	165.0	163.7	158.5	159.8	161.0	167.7	173.0	186.2	192.7	165°	561.6
175.5	159.8	150.5	149.1	146.5	147.8	150.5	158.5	163.7	180.9	195.4	167.5°	571.3
154.5	145.3	138.6	138.6	136.0	138.6	141.3	149.1	155.8	175.5	190.1	170°	578.0
138.6	132.1	128.1	129.4	128.1	130.7	133.3	141.3	149.1	167.7	182.2	172.5°	580.5
124.1	120.1	117.5	118.8	118.8	122.8	125.4	133.3	139.9	157.1	175.5	175°	582.1
112.2	109.6	108.2	109.6	110.9	114.9	118.8	124.1	129.4	145.3	166.3	177.5°	587.2
103.0	100.4	100.4	100.4	101.7	105.6	110.9	113.5	118.8	136.0	155.8	180°	589.2
97.7	96.4	96.4	96.4	97.7	101.7	106.9	109.6	114.9	132.1	150.5		
91.0	91.0	92.4	91.0	93.7	95.0	100.4	103.0	109.6	126.7	143.9		
80.5	80.5	81.8	81.8	84.5	84.5	88.5	91.0	99.0	113.5	129.4		
71.3	71.3	74.0	72.6	72.6	70.0	75.3	77.8	84.5	99.0	114.9		
60.8	59.4	62.1	58.1	56.8	54.1	58.1	62.1	72.6	81.8	84.5		
47.6	43.6	44.9	40.9	40.9	38.3	42.2	43.6	50.1	59.4	64.7		
29.1	23.7	26.4	22.4	25.1	22.4	23.7	25.1	30.4	36.9	35.6		
6.6	4.0	5.3	1.3	4.0	0.0	4.0	1.3	4.0	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	1.0	1.0	1.0	1.0		
6.1	6.6	7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1		
29.2	29.9	30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5		
50.1	50.6	51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0		
71.6	72.1	72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5		
93.6	93.9	94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0		

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 ISC-AF-600-LED-E1-T3-ULG

REPORT NUMBER: P227730
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TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
116.4	116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	0°	516.2	516.2
138.9	139.1	139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	2.5°	521.5	520.2
161.6	161.6	161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	5°	528.0	528.0
184.9	185.2	184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	7.5°	529.4	532.0
208.7	208.7	208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	10°	520.2	517.5
233.4	233.2	233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	12.5°	505.6	503.0
259.8	259.8	259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	15°	504.3	503.0
283.6	283.4	283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	17.5°	495.0	488.5
308.1	307.9	307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	20°	468.6	456.7
332.7	332.5	332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	22.5°	431.7	414.5
356.2	356.0	356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	25°	386.8	363.0
377.7	377.5	377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	27.5°	338.0	314.1
399.5	399.0	399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	30°	299.6	281.2
421.7	421.5	421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	32.5°	271.9	261.4
443.1	442.9	443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	35°	249.5	243.0
462.6	462.4	462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	37.5°	235.0	224.4
479.8	479.8	480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	40°	220.4	207.2
497.2	497.2	497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	42.5°	207.2	194.1
514.7	514.5	514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	45°	194.1	184.8
529.1	528.9	529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	47.5°	187.5	179.5
542.2	542.2	542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	50°	184.8	176.9
551.9	552.4	552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	52.5°	187.5	180.9
562.1	562.6	563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	55°	192.7	188.7
571.0	570.8	571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	57.5°	187.5	180.9
577.5	576.9	577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	60°	175.5	165.0
580.2	580.0	580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	62.5°	167.7	157.1
582.6	583.1	583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	65°	161.0	153.1
587.2	587.2	588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	67.5°	154.5	146.5
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	146.5	138.6
										71°	142.6	133.3
										72.5°	136.0	125.4
										75°	122.8	112.2
										77.5°	101.7	89.8
										80°	77.8	70.0
										82.5°	58.1	51.5
										85°	30.4	23.7
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.1	2.0
										100°	14.3	10.2
										102.5°	38.9	32.7
										105°	62.4	57.3
										107.5°	85.9	81.8

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175°	180°
516.2	516.2
521.5	520.2
529.4	530.7
534.7	533.4
520.2	517.5
505.6	505.6
504.3	504.3
485.8	484.5
454.1	450.2
409.3	405.3
353.8	348.5
304.9	304.9
271.9	271.9
254.8	256.1
239.0	240.3
215.2	215.2
195.4	195.4
186.2	184.8
178.2	176.9
173.0	171.7
167.7	167.7
163.7	163.7
163.7	161.0
165.0	161.0
162.3	159.8
162.3	161.0
165.0	162.3
165.0	159.8
150.5	141.3
142.6	134.6
128.1	122.8
109.6	108.2
85.8	84.5
70.0	66.0
50.1	43.6
19.8	19.8
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.2	8.2
28.6	28.6
55.2	55.2
78.8	79.8

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	108.4	105.4	104.3
112.5°	132.0	128.9	126.8
115°	154.5	152.4	150.4
117.5°	178.0	175.9	173.9
120°	202.5	200.5	199.5
122.5°	228.1	226.1	225.0
125°	253.7	252.7	251.6
127.5°	278.2	276.2	275.2
130°	300.7	299.7	298.7
132.5°	325.3	324.3	321.2
135°	348.8	346.8	344.7
137.5°	372.4	371.3	368.3
140°	394.9	393.8	391.8
142.5°	416.3	417.4	415.3
145°	437.8	437.8	435.8
147.5°	458.3	457.3	454.2
150°	475.7	474.6	472.6
152.5°	493.1	494.1	491.0
155°	512.5	513.5	511.5
157.5°	527.8	528.9	526.8
160°	541.1	541.1	539.1
162.5°	550.3	551.4	548.3
165°	560.6	561.6	559.6
167.5°	570.8	571.8	568.8
170°	578.0	579.0	575.9
172.5°	580.0	582.1	579.0
175°	582.1	583.1	582.1
177.5°	587.2	588.2	586.2
180°	589.2	589.2	589.2



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180°
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103.3
126.8
149.4
172.9
197.4
224.0
249.6
273.1
296.7
320.2
343.7
367.2
390.8
413.3
434.8
454.2
471.6
490.0
510.5
524.8
537.0
547.3
558.5
567.7
574.9
578.0
580.0
585.1
589.2

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