

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: P228520

Luminaire Tested: **ISC-AF-350-LED-E1-SLL-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228520
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-350-LED-E1-SLL-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3494.6 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U5 - G1

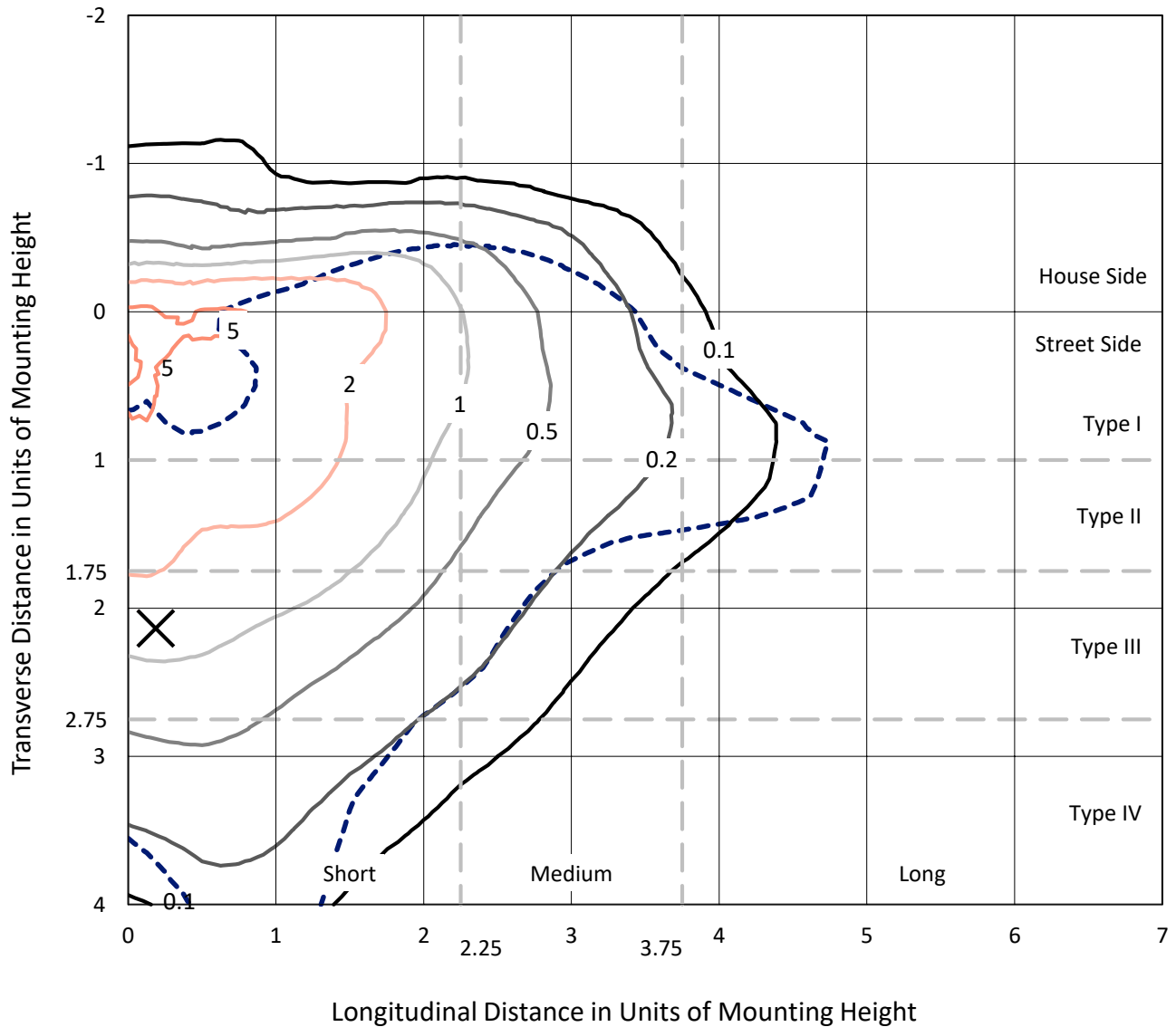
Input Watts (W): 36.79
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

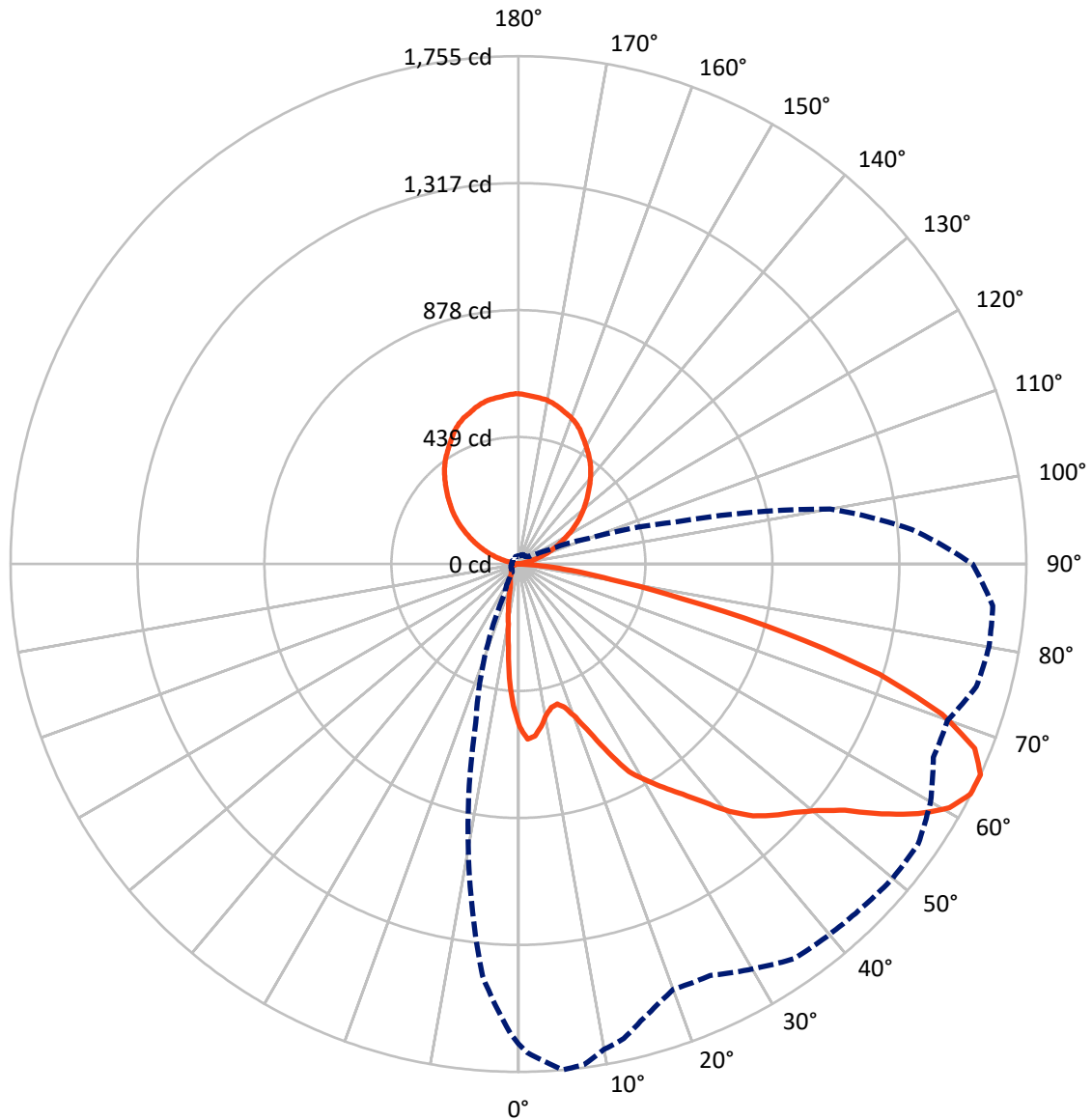
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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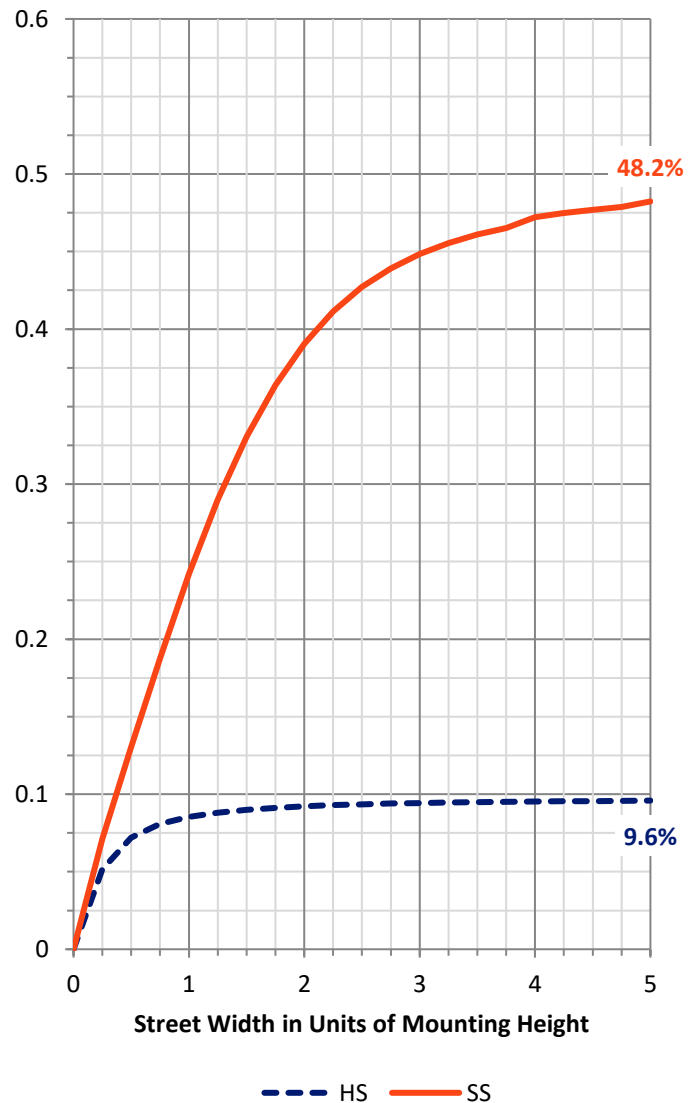
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.5	729.4	1067.9
	% Fixture	9.7	20.9	30.6
Street Side	Lumens	1697.2	729.4	2426.6
	% Fixture	48.6	20.9	69.4
Total	Lumens	2035.7	1458.9	3494.6
	% Fixture	58.3	41.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.2
10°-20°	89.1	2.6
20°-30°	129.6	3.7
30°-40°	191.6	5.5
40°-50°	279.2	8.0
50°-60°	418.6	12.0
60°-70°	521.6	14.9
70°-80°	305.5	8.7
80°-90°	57.1	1.6
90°-100°	4.8	0.1
100°-110°	70.6	2.0
110°-120°	156.6	4.5
120°-130°	229.0	6.6
130°-140°	271.7	7.8
140°-150°	275.5	7.9
150°-160°	236.4	6.8
160°-170°	158.7	4.5
170°-180°	55.6	1.6
0°-90°	2035.7	58.3
0°-180°	3494.6	100.0



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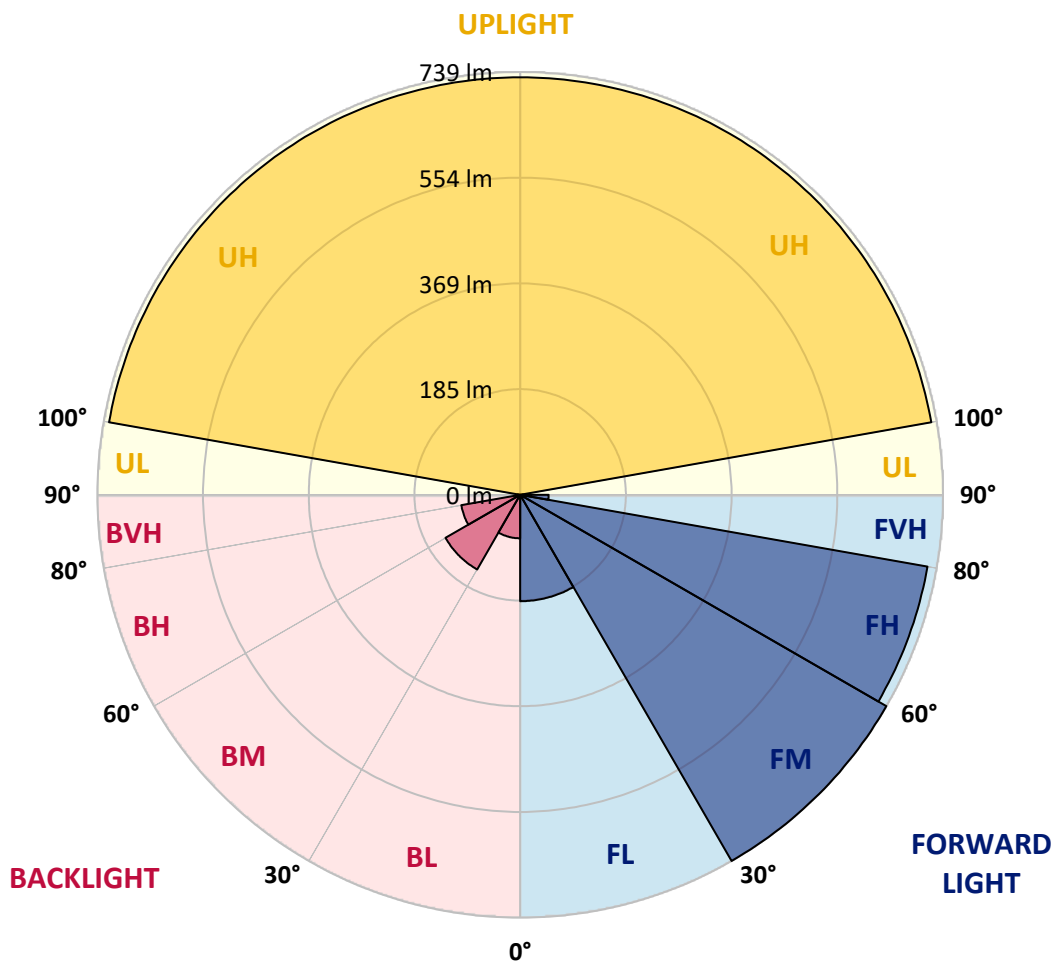
CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.0	5.3			
FM	(30°-60°)	738.8	21.1			
FH	(60°-80°)	722.7	20.7			G1/1800
FVH	(80°-90°)	49.8	1.4			G1/100
BL	(0°-30°)	76.0	2.2	B0/110		
BM	(30°-60°)	150.7	4.3	B0/220		
BH	(60°-80°)	104.5	3.0	B0/110		G0/110
BVH	(80°-90°)	7.4	0.2			G0/10
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	20.9		U4/1000	

BUG Rating: B0-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°	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3
2.5°	598.0	596.4	606.1	607.6	614.1	614.1	621.3	627.8	630.2	635.9	650.4
5°	578.7	583.5	597.2	610.9	620.5	630.2	640.7	653.7	664.1	681.8	718.9
7.5°	535.9	543.2	566.6	580.3	595.6	612.5	625.4	640.7	656.8	686.7	752.8
10°	494.1	499.7	529.5	546.5	568.1	585.9	604.5	621.3	639.1	676.2	752.8
12.5°	467.5	474.6	508.5	524.7	549.6	568.1	590.8	610.9	631.9	671.4	745.5
15°	461.8	469.8	502.1	522.2	544.0	561.7	581.9	602.8	623.8	662.5	728.5
17.5°	477.1	486.8	521.4	544.0	560.9	581.0	595.6	615.7	629.4	660.1	691.5
20°	513.4	524.7	565.8	587.5	601.2	614.1	625.4	637.5	643.1	650.4	644.8
22.5°	571.4	585.1	631.9	656.8	666.6	676.2	677.0	678.6	674.5	655.2	611.7
25°	654.4	668.1	721.3	745.5	745.5	745.5	736.6	730.2	711.7	675.4	602.8
27.5°	731.8	749.5	813.1	828.5	823.7	816.4	799.5	783.4	756.8	696.3	602.0
30°	789.8	807.5	866.3	878.5	866.3	848.6	822.0	798.7	767.2	706.9	607.6
32.5°	843.0	864.0	920.3	922.0	900.2	880.0	850.3	823.7	790.6	726.2	624.6
35°	899.4	920.3	977.6	966.3	934.9	907.5	876.9	853.4	820.4	751.2	652.0
37.5°	977.6	996.1	1044.5	1017.9	977.6	942.1	909.1	878.5	845.5	785.0	698.0
40°	1053.3	1079.9	1124.3	1081.6	1032.4	984.9	948.6	916.4	880.0	830.9	756.8
42.5°	1124.3	1149.3	1190.4	1135.6	1078.4	1030.8	992.9	958.3	923.6	883.3	827.7
45°	1178.2	1204.1	1238.7	1180.7	1115.4	1066.2	1025.2	994.5	963.9	936.5	917.2
47.5°	1230.7	1256.5	1283.1	1220.2	1155.7	1105.7	1057.4	1029.2	1005.0	990.5	1013.8
50°	1298.3	1316.1	1338.6	1270.9	1202.5	1145.2	1096.9	1075.1	1052.5	1057.4	1135.6
52.5°	1390.3	1405.5	1413.6	1347.5	1270.9	1205.6	1152.5	1122.7	1104.2	1132.3	1264.5
55°	1520.0	1541.8	1524.0	1458.7	1362.1	1287.9	1222.6	1187.1	1175.9	1213.7	1393.5
57.5°	1632.0	1641.7	1628.8	1564.3	1465.2	1382.2	1312.9	1275.8	1262.9	1312.9	1511.1
60°	1681.2	1693.3	1711.0	1655.4	1562.8	1480.5	1420.9	1384.6	1362.9	1420.9	1605.4
62.5°	1689.2	1709.4	1752.9	1724.7	1651.3	1590.1	1536.2	1486.1	1469.3	1513.6	1667.5
65°	1657.8	1688.5	1755.4	1744.8	1703.7	1680.4	1635.3	1596.5	1564.3	1569.2	1664.2
67.5°	1586.9	1622.4	1700.6	1695.6	1700.6	1700.6	1661.1	1628.8	1586.9	1527.3	1541.8
70°	1416.1	1462.8	1553.0	1576.4	1617.5	1617.5	1582.9	1533.7	1485.3	1362.9	1288.7
72.5°	1134.8	1166.2	1304.8	1418.4	1470.8	1449.9	1416.1	1333.8	1227.4	1092.8	992.2
75°	768.0	786.5	956.7	1164.6	1259.7	1242.0	1186.3	1084.0	974.4	824.5	697.1
77.5°	428.0	452.1	579.5	742.3	870.4	868.0	860.7	795.4	708.4	584.3	518.2
80°	251.4	259.5	326.4	444.9	555.3	528.7	510.1	458.6	414.3	357.8	408.6
82.5°	154.0	145.9	185.4	270.8	328.1	316.7	285.3	266.0	245.0	229.7	271.6
85°	41.9	37.8	75.8	113.6	139.4	150.7	150.7	149.1	133.8	100.8	120.9
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	2.3	2.6	3.1	4.1
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	14.3	22.5
102.5°	28.6	28.6	28.6	29.7	30.7	31.7	32.7	34.3	35.8	38.9	46.0
105°	55.2	55.2	55.2	55.8	56.3	56.8	57.3	58.5	59.8	62.4	67.5
107.5°	79.8	79.6	78.8	79.6	80.3	81.0	81.8	82.9	83.9	85.9	90.0
110°	103.3	103.5	104.3	104.5	104.9	105.2	105.4	106.2	106.9	108.4	112.5



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CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	126.8	126.8	126.8	127.4	127.9	128.4	128.9	129.7	130.4	132.0	135.0
115°	149.4	149.6	150.4	150.9	151.4	151.9	152.4	152.9	153.4	154.5	157.5
117.5°	172.9	173.1	173.9	174.4	174.9	175.4	175.9	176.5	177.0	178.0	181.1
120°	197.4	197.8	199.5	199.7	200.0	200.3	200.5	201.0	201.5	202.5	205.6
122.5°	224.0	224.2	225.0	225.3	225.6	225.9	226.1	226.6	227.1	228.1	231.2
125°	249.6	250.0	251.6	251.9	252.2	252.5	252.7	252.9	253.2	253.7	256.8
127.5°	273.1	273.5	275.2	275.4	275.7	276.0	276.2	276.7	277.2	278.2	280.3
130°	296.7	297.1	298.7	298.9	299.2	299.5	299.7	299.9	300.2	300.7	304.8
132.5°	320.2	320.4	321.2	322.0	322.7	323.5	324.3	324.5	324.8	325.3	328.4
135°	343.7	343.9	344.7	345.2	345.8	346.3	346.8	347.3	347.8	348.8	352.9
137.5°	367.2	367.4	368.3	369.1	369.8	370.5	371.3	371.5	371.8	372.4	375.4
140°	390.8	391.0	391.8	392.3	392.8	393.3	393.8	394.0	394.3	394.9	396.9
142.5°	413.3	413.7	415.3	415.8	416.3	416.9	417.4	417.2	416.9	416.3	419.4
145°	434.8	435.0	435.8	436.3	436.8	437.3	437.8	437.8	437.8	437.8	440.9
147.5°	454.2	454.2	454.2	455.0	455.7	456.4	457.3	457.5	457.8	458.3	462.4
150°	471.6	471.8	472.6	473.1	473.6	474.1	474.6	474.9	475.2	475.7	479.8
152.5°	490.0	490.2	491.0	491.8	492.6	493.3	494.1	493.9	493.6	493.1	496.1
155°	510.5	510.7	511.5	512.0	512.5	513.0	513.5	513.3	513.0	512.5	514.5
157.5°	524.8	525.2	526.8	527.3	527.8	528.4	528.9	528.7	528.4	527.8	530.9
160°	537.0	537.5	539.1	539.6	540.1	540.6	541.1	541.1	541.1	541.1	544.2
162.5°	547.3	547.5	548.3	549.1	549.8	550.6	551.4	551.2	550.9	550.3	553.4
165°	558.5	558.7	559.6	560.1	560.6	561.1	561.6	561.4	561.1	560.6	564.7
167.5°	567.7	567.9	568.8	569.6	570.3	571.0	571.8	571.6	571.3	570.8	573.9
170°	574.9	575.1	575.9	576.7	577.5	578.2	579.0	578.8	578.5	578.0	580.0
172.5°	578.0	578.2	579.0	579.8	580.5	581.2	582.1	581.5	581.0	580.0	582.1
175°	580.0	580.4	582.1	582.3	582.6	582.9	583.1	582.9	582.6	582.1	585.1
177.5°	585.1	585.3	586.2	586.7	587.2	587.7	588.2	588.0	587.7	587.2	591.3
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):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3
2.5°	656.0	656.8	654.4	660.1	653.7	650.4	640.7	640.7	632.7	626.3	619.0
5°	732.6	737.4	733.4	734.2	721.3	708.4	689.1	677.8	657.7	635.9	613.4
7.5°	784.2	792.3	789.0	775.3	755.1	727.7	695.5	664.9	631.9	596.4	563.3
10°	797.9	806.7	799.5	773.7	740.6	701.9	663.3	622.2	581.9	544.0	508.5
12.5°	778.6	785.0	769.7	741.4	709.2	670.5	630.2	594.7	547.3	507.0	465.9
15°	729.4	725.4	723.7	703.6	681.0	649.6	611.7	575.4	531.1	490.0	446.5
17.5°	676.2	671.4	673.0	664.9	661.6	647.1	619.0	588.3	548.8	498.9	452.1
20°	629.4	624.6	627.1	631.1	643.1	643.9	639.1	619.0	589.9	537.6	480.4
22.5°	589.1	589.9	598.0	609.3	629.4	655.2	675.4	679.4	659.3	598.0	526.3
25°	577.0	573.1	581.9	600.5	634.2	684.3	729.4	752.0	740.6	679.4	591.6
27.5°	573.1	567.4	577.0	601.2	655.2	725.4	789.8	823.7	827.7	764.9	661.6
30°	573.1	570.6	580.3	611.7	668.9	739.1	810.8	861.5	877.7	825.3	722.9
32.5°	580.3	581.9	598.8	639.1	698.0	769.7	843.8	898.7	927.6	888.1	772.1
35°	596.4	599.7	623.8	670.5	734.2	806.7	874.4	930.1	976.8	955.8	818.1
37.5°	631.1	635.9	665.7	713.3	771.3	836.6	902.7	962.3	1030.0	1021.1	866.3
40°	692.3	692.3	722.1	763.2	810.8	860.7	926.0	996.1	1079.1	1091.3	926.0
42.5°	769.7	766.5	785.8	815.6	848.6	890.6	949.4	1027.6	1125.0	1151.6	971.2
45°	876.1	859.9	870.4	877.7	893.8	919.5	972.0	1057.4	1162.2	1196.9	1005.0
47.5°	1001.0	978.5	969.6	955.8	950.2	959.8	1005.0	1080.7	1197.7	1235.5	1059.8
50°	1138.7	1117.1	1093.6	1056.6	1024.4	1014.7	1042.1	1112.2	1235.5	1283.9	1120.2
52.5°	1282.3	1266.9	1236.3	1178.2	1117.1	1082.4	1095.3	1164.6	1296.0	1358.8	1191.9
55°	1413.6	1418.4	1381.4	1313.7	1225.8	1172.6	1188.0	1257.3	1405.5	1479.7	1312.0
57.5°	1554.7	1541.8	1512.7	1442.7	1346.7	1289.5	1296.0	1379.8	1528.1	1584.4	1431.3
60°	1648.2	1648.2	1616.7	1563.5	1472.4	1419.2	1429.0	1506.3	1626.4	1632.0	1484.5
62.5°	1708.6	1717.4	1692.5	1654.6	1565.9	1521.6	1554.7	1609.4	1674.8	1628.0	1457.9
65°	1679.6	1689.2	1686.8	1644.9	1582.1	1578.8	1638.5	1651.3	1645.7	1569.2	1366.0
67.5°	1548.2	1528.9	1528.1	1506.3	1493.4	1560.3	1636.0	1640.1	1545.0	1453.9	1221.0
70°	1298.3	1265.3	1252.4	1258.8	1317.7	1442.7	1550.6	1520.0	1368.5	1290.4	1039.6
72.5°	1001.0	961.5	953.4	978.5	1069.5	1245.1	1392.6	1350.0	1125.0	1034.0	805.2
75°	710.0	693.2	693.9	743.1	841.4	1010.7	1182.3	1178.2	833.3	713.3	554.4
77.5°	516.6	519.9	534.3	553.7	638.3	801.9	963.1	952.6	593.2	490.0	387.7
80°	426.4	431.2	431.2	420.7	442.4	529.5	654.4	698.8	397.3	329.6	270.8
82.5°	306.3	330.4	344.1	327.2	319.2	348.9	410.2	439.3	247.5	208.0	189.3
85°	145.9	166.8	171.7	167.7	192.6	220.0	234.6	240.2	135.4	96.7	124.1
87.5°	0.0	0.0	0.8	6.4	17.7	30.6	30.6	46.7	7.3	2.5	5.6
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°	9.2	11.3	13.3	10.2	7.2	6.1	5.1	4.6	4.1	4.1	4.1
100°	30.7	31.7	32.7	31.7	30.7	29.2	27.6	27.1	26.6	25.6	26.6
102.5°	51.1	51.7	52.2	51.7	51.1	50.1	49.1	49.6	50.1	49.1	50.1
105°	71.6	72.1	72.6	72.6	72.6	71.6	70.6	71.6	72.6	70.6	72.6
107.5°	93.1	94.1	95.1	94.6	94.1	93.6	93.1	93.6	94.1	93.1	94.1
110°	114.6	115.6	116.6	116.6	116.6	116.1	115.6	116.1	116.6	115.6	116.6



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CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	137.1	138.1	139.1	139.1	139.1	138.6	138.1	139.1	140.1	138.1	140.1
115°	159.6	160.6	161.6	161.6	161.6	161.6	161.6	162.6	163.7	162.6	163.7
117.5°	183.1	183.6	184.1	184.6	185.2	184.6	184.1	185.2	186.2	184.1	186.2
120°	206.6	207.7	208.7	208.7	208.7	208.7	208.7	209.7	210.7	208.7	210.7
122.5°	232.2	232.7	233.2	233.2	233.2	233.7	234.3	236.3	238.3	237.3	238.3
125°	257.8	258.3	258.8	259.3	259.8	259.8	259.8	261.4	262.9	261.9	262.9
127.5°	282.3	283.4	284.4	283.9	283.4	283.9	284.4	285.9	287.4	284.4	287.4
130°	305.9	306.9	307.9	307.9	307.9	308.4	308.9	310.5	312.0	310.0	312.0
132.5°	329.4	330.9	332.5	332.5	332.5	333.0	333.5	335.0	336.6	334.5	336.6
135°	352.9	354.5	356.0	356.0	356.0	356.5	357.0	358.0	359.1	358.0	359.1
137.5°	375.4	376.4	377.5	377.5	377.5	378.0	378.5	380.5	382.6	380.5	382.6
140°	397.9	398.4	399.0	399.0	399.0	400.0	401.0	403.0	405.1	403.0	405.1
142.5°	419.4	420.4	421.5	421.5	421.5	422.0	422.5	424.0	425.5	424.5	425.5
145°	441.9	442.9	444.0	443.4	442.9	443.4	444.0	445.5	447.0	445.0	447.0
147.5°	463.4	463.9	464.4	463.4	462.4	462.9	463.4	464.9	466.5	463.4	466.5
150°	480.8	481.3	481.8	480.8	479.8	479.8	479.8	481.8	483.9	480.8	483.9
152.5°	497.2	497.7	498.2	497.7	497.2	497.2	497.2	498.7	500.2	497.2	500.2
155°	514.5	515.1	515.6	515.1	514.5	515.1	515.6	517.1	518.6	516.6	518.6
157.5°	530.9	530.9	530.9	529.9	528.9	529.4	529.9	532.4	535.0	531.9	535.0
160°	544.2	544.2	544.2	543.2	542.2	542.2	542.2	543.7	545.2	543.2	545.2
162.5°	553.4	553.9	554.4	553.4	552.4	551.4	550.3	551.4	552.4	549.3	552.4
165°	564.7	565.2	565.7	564.2	562.6	561.6	560.6	561.6	562.6	560.6	562.6
167.5°	572.9	572.9	572.9	571.8	570.8	571.3	571.8	573.9	575.9	573.9	575.9
170°	579.0	578.5	578.0	577.5	576.9	578.0	579.0	581.5	584.1	582.1	584.1
172.5°	581.0	581.5	582.1	581.0	580.0	580.5	581.0	582.6	584.1	581.0	584.1
175°	585.1	585.6	586.2	584.6	583.1	582.1	581.0	582.6	584.1	581.0	584.1
177.5°	590.2	590.2	590.2	588.7	587.2	587.2	587.2	588.7	590.2	587.2	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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CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3
2.5°	609.3	598.8	590.8	581.0	573.1	565.0	559.3	547.3	537.6	515.8	510.1
5°	594.7	572.2	556.9	542.4	523.9	511.0	497.3	480.4	461.8	430.4	420.7
7.5°	537.6	509.3	488.4	467.5	443.2	421.5	401.4	378.8	346.6	312.7	299.8
10°	475.5	445.7	416.6	391.7	362.6	338.5	320.8	304.6	278.9	253.1	236.1
12.5°	424.7	390.9	357.8	332.9	317.5	305.5	292.6	279.7	252.3	223.2	203.1
15°	401.4	361.8	332.9	311.9	298.2	283.7	268.4	253.9	221.7	187.8	163.6
17.5°	404.6	359.5	322.3	294.2	275.6	255.5	237.7	219.2	183.7	143.4	121.7
20°	422.3	361.8	311.1	278.0	251.4	225.7	203.1	179.7	136.2	104.8	89.5
22.5°	444.9	369.9	304.6	262.0	228.9	196.6	167.7	140.2	100.8	82.2	75.0
25°	483.5	388.4	303.0	247.5	207.1	168.5	138.6	109.6	81.4	72.5	68.5
27.5°	531.9	409.4	304.6	236.9	188.6	145.9	112.8	91.0	73.3	68.5	65.3
30°	580.3	431.2	297.4	220.9	166.8	124.9	96.7	83.0	72.5	66.9	61.3
32.5°	623.0	447.3	285.3	203.9	147.5	106.4	82.2	70.9	63.6	57.2	55.6
35°	653.7	454.6	271.6	193.4	134.6	95.1	72.5	63.6	56.4	49.9	46.7
37.5°	682.6	455.3	257.1	183.7	129.7	90.2	66.9	58.8	52.4	46.7	43.5
40°	712.5	452.1	249.0	174.1	122.5	87.9	64.4	54.8	50.7	44.3	41.1
42.5°	734.2	446.5	245.8	168.5	116.1	81.4	62.9	54.0	48.4	43.5	39.5
45°	754.3	440.9	245.8	163.6	111.2	77.3	59.6	54.8	46.7	42.8	37.8
47.5°	778.6	443.2	246.6	159.6	107.2	73.3	56.4	53.2	47.6	41.9	37.0
50°	819.6	470.7	250.6	157.1	103.9	70.1	54.0	50.7	52.4	41.1	36.3
52.5°	890.6	514.2	257.1	155.6	100.8	67.7	50.7	49.2	53.2	41.1	35.5
55°	983.3	558.5	263.5	151.5	96.0	62.9	49.2	45.9	49.2	41.1	34.7
57.5°	1073.5	591.6	269.1	145.9	87.9	58.0	46.7	43.5	45.1	40.3	33.0
60°	1125.9	617.4	274.9	136.2	78.2	52.4	44.3	41.1	40.3	40.3	32.2
62.5°	1140.4	607.6	271.6	124.1	70.1	48.4	41.9	38.7	36.3	41.1	32.2
65°	1094.5	556.9	259.5	113.6	64.4	46.7	39.5	37.0	34.7	35.5	30.6
67.5°	953.4	468.2	226.5	103.9	63.6	45.9	37.8	35.5	32.2	31.4	29.1
70°	777.7	367.5	187.8	96.7	62.9	45.9	36.3	33.0	30.6	28.2	26.6
72.5°	598.0	274.9	157.9	93.5	63.6	45.1	33.9	29.9	27.4	25.8	24.1
75°	420.7	194.3	131.3	83.8	59.6	42.8	31.4	26.6	24.1	22.6	21.0
77.5°	304.6	132.2	97.5	67.7	50.7	37.0	27.4	22.6	20.2	19.3	17.7
80°	194.3	81.4	65.3	49.9	37.0	29.1	21.0	17.7	16.2	14.5	13.7
82.5°	112.0	47.6	39.5	33.9	24.1	19.3	15.3	13.7	10.4	9.7	8.9
85°	68.5	29.9	21.8	17.7	15.3	12.1	8.9	8.1	5.6	4.8	4.0
87.5°	15.3	6.4	5.6	4.0	4.8	4.0	2.5	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.6	5.1	6.1	7.2	10.2	13.3	11.3	9.2	4.1	3.1	2.0
100°	27.1	27.6	29.2	30.7	31.7	32.7	31.7	30.7	22.5	14.3	10.2
102.5°	49.6	49.1	50.1	51.1	51.7	52.2	51.7	51.1	46.0	38.9	32.7
105°	71.6	70.6	71.6	72.6	72.6	72.6	72.1	71.6	67.5	62.4	57.3
107.5°	93.6	93.1	93.6	94.1	94.6	95.1	94.1	93.1	90.0	85.9	81.8
110°	116.1	115.6	116.1	116.6	116.6	116.6	115.6	114.6	112.5	108.4	105.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	139.1	138.1	138.6	139.1	139.1	139.1	138.1	137.1	135.0	132.0	128.9	0°
115°	162.6	161.6	161.6	161.6	161.6	161.6	160.6	159.6	157.5	154.5	152.4	2.5°
117.5°	185.2	184.1	184.6	185.2	184.6	184.1	183.6	183.1	181.1	178.0	175.9	5°
120°	209.7	208.7	208.7	208.7	208.7	208.7	207.7	206.6	205.6	202.5	200.5	7.5°
122.5°	236.3	234.3	233.7	233.2	233.2	233.2	232.7	232.2	231.2	228.1	226.1	10°
125°	261.4	259.8	259.8	259.8	259.3	258.8	258.3	257.8	256.8	253.7	252.7	12.5°
127.5°	285.9	284.4	283.9	283.4	283.9	284.4	283.4	282.3	280.3	278.2	276.2	15°
130°	310.5	308.9	308.4	307.9	307.9	307.9	306.9	305.9	304.8	300.7	299.7	17.5°
132.5°	335.0	333.5	333.0	332.5	332.5	332.5	330.9	329.4	328.4	325.3	324.3	20°
135°	358.0	357.0	356.5	356.0	356.0	356.0	354.5	352.9	352.9	348.8	346.8	22.5°
137.5°	380.5	378.5	378.0	377.5	377.5	377.5	376.4	375.4	375.4	372.4	371.3	25°
140°	403.0	401.0	400.0	399.0	399.0	399.0	398.4	397.9	396.9	394.9	393.8	27.5°
142.5°	424.0	422.5	422.0	421.5	421.5	421.5	420.4	419.4	419.4	416.3	417.4	30°
145°	445.5	444.0	443.4	442.9	443.4	444.0	442.9	441.9	440.9	437.8	437.8	32.5°
147.5°	464.9	463.4	462.9	462.4	463.4	464.4	463.9	463.4	462.4	458.3	457.3	35°
150°	481.8	479.8	479.8	479.8	480.8	481.8	481.3	480.8	479.8	475.7	474.6	37.5°
152.5°	498.7	497.2	497.2	497.2	497.7	498.2	497.7	497.2	496.1	493.1	494.1	40°
155°	517.1	515.6	515.1	514.5	515.1	515.6	515.1	514.5	514.5	512.5	513.5	42.5°
157.5°	532.4	529.9	529.4	528.9	529.9	530.9	530.9	530.9	530.9	527.8	528.9	45°
160°	543.7	542.2	542.2	542.2	543.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°
162.5°	551.4	550.3	551.4	552.4	553.4	554.4	553.9	553.4	553.4	550.3	551.4	50°
165°	561.6	560.6	561.6	562.6	564.2	565.7	565.2	564.7	564.7	560.6	561.6	52.5°
167.5°	573.9	571.8	571.3	570.8	571.8	572.9	572.9	572.9	573.9	570.8	571.8	55°
170°	581.5	579.0	578.0	576.9	577.5	578.0	578.5	579.0	580.0	578.0	579.0	57.5°
172.5°	582.6	581.0	580.5	580.0	581.0	582.1	581.5	581.0	582.1	580.0	582.1	60°
175°	582.6	581.0	582.1	583.1	584.6	586.2	585.6	585.1	585.1	582.1	583.1	62.5°
177.5°	588.7	587.2	587.2	587.2	588.7	590.2	590.2	590.2	591.3	587.2	588.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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°
563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	112.5°	126.8
501.2	489.2	490.0	487.6	481.2	470.7	467.5	461.8	462.6	465.9	462.6	115°	150.4
409.4	394.9	396.5	395.7	389.2	382.0	376.3	369.1	366.7	369.1	365.1	117.5°	173.9
290.1	280.5	283.7	290.9	290.1	286.1	281.3	273.2	271.6	272.4	265.1	120°	199.5
221.7	212.0	209.5	208.8	207.1	204.7	198.2	191.8	189.3	190.2	185.4	122.5°	225.0
185.4	177.3	167.7	158.8	150.7	147.5	139.4	135.4	134.6	134.6	132.2	125°	251.6
146.7	140.2	134.6	125.7	119.3	114.5	108.8	105.6	104.8	105.6	105.6	127.5°	275.2
109.6	106.4	103.9	103.1	99.9	96.7	93.5	91.9	91.0	91.0	91.9	130°	298.7
83.8	83.0	83.0	83.0	87.1	90.2	91.0	88.7	87.9	87.1	86.2	132.5°	321.2
72.5	71.7	72.5	77.3	75.0	72.5	72.5	72.5	72.5	72.5	73.3	135°	344.7
66.9	67.7	68.5	66.1	63.6	62.1	61.3	61.3	60.5	60.5	61.3	137.5°	368.3
63.6	62.9	62.1	60.5	58.8	56.4	55.6	54.8	54.8	54.8	54.8	140°	391.8
59.6	58.8	58.0	56.4	54.0	50.7	49.9	49.9	49.2	49.9	49.9	142.5°	415.3
54.8	54.0	53.2	51.6	49.2	47.6	46.7	45.1	45.1	45.1	45.9	145°	435.8
44.3	43.5	43.5	44.3	44.3	43.5	43.5	41.9	41.9	41.9	41.9	147.5°	454.2
41.1	40.3	40.3	39.5	40.3	41.1	40.3	39.5	39.5	38.7	38.7	150°	472.6
38.7	38.7	37.8	37.0	37.0	38.7	37.8	37.0	36.3	36.3	36.3	152.5°	491.0
37.0	36.3	36.3	35.5	35.5	35.5	34.7	33.9	33.0	33.0	33.0	155°	511.5
35.5	35.5	34.7	33.9	33.0	33.0	31.4	30.6	30.6	30.6	31.4	157.5°	526.8
34.7	33.9	33.9	33.0	32.2	30.6	29.9	29.1	29.1	29.1	29.1	160°	539.1
33.9	33.0	32.2	32.2	30.6	29.9	29.1	28.2	28.2	28.2	28.2	162.5°	548.3
33.0	32.2	31.4	30.6	29.9	29.1	28.2	27.4	27.4	27.4	27.4	165°	559.6
31.4	30.6	30.6	29.9	29.9	29.1	28.2	27.4	27.4	27.4	26.6	167.5°	568.8
30.6	29.9	29.1	29.1	29.1	28.2	27.4	26.6	26.6	26.6	26.6	170°	575.9
29.9	29.1	29.1	28.2	28.2	27.4	27.4	26.6	25.8	25.8	25.0	172.5°	579.0
29.1	28.2	28.2	27.4	28.2	27.4	26.6	25.8	25.0	25.0	24.1	175°	582.1
28.2	27.4	27.4	26.6	26.6	25.8	25.0	24.1	24.1	24.1	23.3	177.5°	586.2
26.6	25.8	25.8	26.6	25.8	25.0	25.0	23.3	23.3	22.6	22.6	180°	589.2
24.1	24.1	24.1	25.0	24.1	23.3	23.3	22.6	21.8	21.0	21.0		
22.6	21.8	22.6	22.6	22.6	21.8	22.6	21.0	20.2	19.3	19.3		
19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	18.5	17.7	16.9		
15.3	16.2	16.2	16.2	16.2	16.9	16.2	16.2	16.2	15.3	14.5		
11.3	11.3	12.1	12.9	12.1	12.9	12.1	12.9	12.1	12.1	12.1		
6.4	6.4	7.3	8.1	8.1	8.9	7.3	8.1	8.1	8.9	8.1		
2.5	2.5	2.5	2.5	3.3	3.3	2.5	3.3	3.3	4.0	4.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	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	3.1	4.1	9.2	11.3	12.3	13.3	11.8		
8.2	8.2	8.2	10.2	14.3	22.5	30.7	31.7	32.2	32.7	32.2		
28.6	28.6	28.6	32.7	38.9	46.0	51.1	51.7	52.0	52.2	52.0		
55.2	55.2	55.2	57.3	62.4	67.5	71.6	72.1	72.4	72.6	72.6		
78.8	79.8	78.8	81.8	85.9	90.0	93.1	94.1	94.6	95.1	94.9		
104.3	103.3	104.3	105.4	108.4	112.5	114.6	115.6	116.1	116.6	116.6		

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REPORT NUMBER: P228520
 CATALOG NUMBER: ISC-AF-35

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
126.8	126.8	128.9	132.0	135.0	137.1	138.1	138.6	139.1	139.1	0°	563.3	563.3
149.4	150.4	152.4	154.5	157.5	159.6	160.6	161.1	161.6	161.6	2.5°	469.0	469.0
172.9	173.9	175.9	178.0	181.1	183.1	183.6	183.9	184.1	184.3	5°	368.4	367.5
197.4	199.5	200.5	202.5	205.6	206.6	207.7	208.2	208.7	208.7	7.5°	267.6	265.1
224.0	225.0	226.1	228.1	231.2	232.2	232.7	233.0	233.2	233.2	10°	187.0	180.6
249.6	251.6	252.7	253.7	256.8	257.8	258.3	258.6	258.8	259.0	12.5°	135.4	133.0
273.1	275.2	276.2	278.2	280.3	282.3	283.4	283.9	284.4	284.2	15°	107.2	107.2
296.7	298.7	299.7	300.7	304.8	305.9	306.9	307.4	307.9	307.9	17.5°	92.7	92.7
320.2	321.2	324.3	325.3	328.4	329.4	330.9	331.6	332.5	332.5	20°	85.4	84.6
343.7	344.7	346.8	348.8	352.9	352.9	354.5	355.2	356.0	356.0	22.5°	73.3	72.5
367.2	368.3	371.3	372.4	375.4	375.4	376.4	377.0	377.5	377.5	25°	60.5	60.5
390.8	391.8	393.8	394.9	396.9	397.9	398.4	398.7	399.0	399.0	27.5°	54.8	54.8
413.3	415.3	417.4	416.3	419.4	419.4	420.4	420.9	421.5	421.5	30°	49.9	50.7
434.8	435.8	437.8	437.8	440.9	441.9	442.9	443.4	444.0	443.8	32.5°	45.9	45.9
454.2	454.2	457.3	458.3	462.4	463.4	463.9	464.2	464.4	463.9	35°	41.1	41.1
471.6	472.6	474.6	475.7	479.8	480.8	481.3	481.6	481.8	481.3	37.5°	37.8	37.0
490.0	491.0	494.1	493.1	496.1	497.2	497.7	498.0	498.2	498.0	40°	34.7	34.7
510.5	511.5	513.5	512.5	514.5	514.5	515.1	515.4	515.6	515.4	42.5°	32.2	32.2
524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.4	45°	30.6	30.6
537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	543.7	47.5°	29.9	29.9
547.3	548.3	551.4	550.3	553.4	553.4	553.9	554.2	554.4	553.9	50°	28.2	28.2
558.5	559.6	561.6	560.6	564.7	564.7	565.2	565.5	565.7	564.9	52.5°	27.4	27.4
567.7	568.8	571.8	570.8	573.9	572.9	572.9	572.9	572.9	572.3	55°	26.6	27.4
574.9	575.9	579.0	578.0	580.0	579.0	578.5	578.2	578.0	577.8	57.5°	25.8	25.8
578.0	579.0	582.1	580.0	582.1	581.0	581.5	581.9	582.1	581.5	60°	25.0	25.0
580.0	582.1	583.1	582.1	585.1	585.1	585.6	585.9	586.2	585.3	62.5°	24.1	24.1
585.1	586.2	588.2	587.2	591.3	590.2	590.2	590.2	590.2	589.4	65°	23.3	23.3
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	21.8	21.8
										70°	20.2	20.2
										72.5°	18.5	18.5
										75°	16.9	16.2
										77.5°	14.5	13.7
										80°	12.1	11.3
										82.5°	8.9	8.1
										85°	4.0	4.0
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.2	8.7
										100°	31.7	31.2
										102.5°	51.7	51.4
										105°	72.6	72.6
										107.5°	94.6	94.3
										110°	116.6	116.6



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CATALOG NUMBER: ISC-AF-350-LED-E1-S

0-LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	563.3	112.5°	139.1	139.1	139.1
459.4	461.0	462.6	465.9	464.2	463.4	462.6	467.5	469.8	115°	161.6	161.6	161.6
355.4	354.7	357.0	357.8	355.4	351.4	348.9	349.7	352.2	117.5°	184.6	184.9	185.2
253.9	252.3	251.4	252.3	249.8	245.8	242.5	243.4	245.8	120°	208.7	208.7	208.7
178.9	179.7	181.4	182.9	182.9	182.9	183.7	188.6	194.3	122.5°	233.2	233.2	233.2
134.6	136.2	139.4	141.9	144.2	145.1	145.9	152.3	157.1	125°	259.3	259.6	259.8
108.8	109.6	111.2	112.8	114.5	114.5	115.3	117.6	121.7	127.5°	283.9	283.6	283.4
92.7	92.7	92.7	91.9	91.0	89.5	88.7	87.9	88.7	130°	307.9	307.9	307.9
83.0	82.2	80.6	79.0	78.2	75.8	75.0	72.5	71.7	132.5°	332.5	332.5	332.5
72.5	72.5	72.5	71.7	70.9	70.1	68.5	66.1	64.4	135°	356.0	356.0	356.0
60.5	61.3	61.3	62.1	63.6	63.6	63.6	63.6	61.3	137.5°	377.5	377.5	377.5
54.8	54.8	55.6	55.6	56.4	56.4	56.4	57.2	58.0	140°	399.0	399.0	399.0
50.7	51.6	51.6	52.4	52.4	53.2	53.2	54.0	54.0	142.5°	421.5	421.5	421.5
46.7	47.6	47.6	47.6	49.2	49.2	48.4	49.2	49.2	145°	443.4	443.1	442.9
41.1	41.1	41.1	41.1	41.1	41.1	39.5	38.7	39.5	147.5°	463.4	462.9	462.4
37.0	36.3	35.5	35.5	35.5	36.3	35.5	36.3	36.3	150°	480.8	480.3	479.8
33.9	33.9	33.9	33.9	33.9	33.9	33.9	34.7	35.5	152.5°	497.7	497.4	497.2
32.2	32.2	32.2	32.2	32.2	32.2	32.2	33.0	33.0	155°	515.1	514.7	514.5
30.6	30.6	31.4	31.4	31.4	31.4	31.4	31.4	32.2	157.5°	529.9	529.4	528.9
29.9	29.9	29.9	29.9	29.9	29.9	29.9	30.6	31.4	160°	543.2	542.7	542.2
29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.9	30.6	162.5°	553.4	552.9	552.4
27.4	28.2	28.2	28.2	28.2	28.2	28.2	28.2	29.1	165°	564.2	563.4	562.6
27.4	27.4	27.4	27.4	26.6	26.6	26.6	26.6	27.4	167.5°	571.8	571.3	570.8
26.6	26.6	26.6	25.8	25.8	25.0	25.0	25.0	26.6	170°	577.5	577.1	576.9
25.0	25.0	25.0	24.1	24.1	24.1	24.1	25.0	25.0	172.5°	581.0	580.5	580.0
23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	175°	584.6	583.9	583.1
22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	177.5°	588.7	588.0	587.2
21.8	21.0	21.0	21.0	21.0	21.8	21.0	21.0	21.0	180°	589.2	589.2	589.2
20.2	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3				
18.5	18.5	17.7	17.7	17.7	17.7	17.7	17.7	17.7				
16.2	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3				
13.7	13.7	12.9	12.9	12.9	12.9	12.9	12.9	12.9				
11.3	10.4	10.4	10.4	10.4	10.4	10.4	9.7	9.7				
8.1	8.1	8.1	7.3	7.3	7.3	7.3	6.4	5.6				
3.3	4.0	4.0	4.8	4.0	4.0	4.0	3.3	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	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				
7.2	6.6	6.1	5.6	5.1	4.9	4.6	4.1	4.1				
30.7	29.9	29.2	28.4	27.6	27.4	27.1	26.6	25.6				
51.1	50.6	50.1	49.6	49.1	49.3	49.6	50.1	49.1				
72.6	72.1	71.6	71.1	70.6	71.1	71.6	72.6	70.6				
94.1	93.9	93.6	93.3	93.1	93.3	93.6	94.1	93.1				
116.6	116.4	116.1	115.8	115.6	115.8	116.1	116.6	115.6				



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SLL-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
138.9	138.6	138.3	138.1	138.6	139.1	140.1	138.1	0°	563.3	563.3	563.3	563.3
161.6	161.6	161.6	161.6	162.1	162.6	163.7	162.6	2.5°	468.2	476.3	477.1	472.3
184.9	184.6	184.3	184.1	184.6	185.2	186.2	184.1	5°	348.9	359.5	358.6	352.2
208.7	208.7	208.7	208.7	209.2	209.7	210.7	208.7	7.5°	246.6	255.5	254.7	253.9
233.4	233.7	234.1	234.3	235.3	236.3	238.3	237.3	10°	199.9	208.0	210.3	215.9
259.8	259.8	259.8	259.8	260.6	261.4	262.9	261.9	12.5°	162.0	171.7	174.1	180.6
283.6	283.9	284.2	284.4	285.2	285.9	287.4	284.4	15°	124.9	133.0	135.4	140.2
308.1	308.4	308.7	308.9	309.7	310.5	312.0	310.0	17.5°	91.9	96.7	98.3	101.6
332.7	333.0	333.3	333.5	334.3	335.0	336.6	334.5	20°	71.7	73.3	74.2	75.0
356.2	356.5	356.8	357.0	357.5	358.0	359.1	358.0	22.5°	64.4	65.3	65.3	66.1
377.7	378.0	378.3	378.5	379.5	380.5	382.6	380.5	25°	59.6	60.5	60.5	61.3
399.5	400.0	400.5	401.0	402.0	403.0	405.1	403.0	27.5°	57.2	57.2	57.2	57.2
421.7	422.0	422.3	422.5	423.3	424.0	425.5	424.5	30°	54.8	54.8	54.8	55.6
443.1	443.4	443.8	444.0	444.8	445.5	447.0	445.0	32.5°	50.7	49.2	50.7	49.9
462.6	462.9	463.2	463.4	464.2	464.9	466.5	463.4	35°	39.5	39.5	40.3	41.1
479.8	479.8	479.8	479.8	480.8	481.8	483.9	480.8	37.5°	37.0	37.8	37.8	38.7
497.2	497.2	497.2	497.2	498.0	498.7	500.2	497.2	40°	35.5	36.3	37.0	37.8
514.7	515.1	515.4	515.6	516.4	517.1	518.6	516.6	42.5°	33.9	35.5	35.5	36.3
529.1	529.4	529.7	529.9	531.1	532.4	535.0	531.9	45°	33.0	33.9	34.7	35.5
542.2	542.2	542.2	542.2	543.0	543.7	545.2	543.2	47.5°	32.2	33.0	33.9	34.7
551.9	551.4	550.9	550.3	550.9	551.4	552.4	549.3	50°	30.6	32.2	33.0	33.9
562.1	561.6	561.1	560.6	561.1	561.6	562.6	560.6	52.5°	29.9	31.4	31.4	33.0
571.0	571.3	571.6	571.8	572.9	573.9	575.9	573.9	55°	28.2	29.9	29.9	31.4
577.5	578.0	578.5	579.0	580.2	581.5	584.1	582.1	57.5°	26.6	28.2	29.1	29.9
580.2	580.5	580.8	581.0	581.9	582.6	584.1	581.0	60°	25.8	26.6	27.4	28.2
582.6	582.1	581.5	581.0	581.9	582.6	584.1	581.0	62.5°	24.1	25.8	26.6	27.4
587.2	587.2	587.2	587.2	588.0	588.7	590.2	587.2	65°	23.3	25.0	25.0	26.6
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	21.8	23.3	23.3	24.1
								70°	20.2	21.0	21.8	22.6
								72.5°	18.5	19.3	19.3	20.2
								75°	15.3	16.2	16.9	17.7
								77.5°	12.9	12.9	14.5	14.5
								80°	9.7	9.7	10.4	11.3
								82.5°	5.6	5.6	6.4	6.4
								85°	1.6	1.6	1.6	1.6
								87.5°	0.0	0.0	0.0	0.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	4.1	4.6	4.9	5.1
								100°	26.6	27.1	27.4	27.6
								102.5°	50.1	49.6	49.3	49.1
								105°	72.6	71.6	71.1	70.6
								107.5°	94.1	93.6	93.3	93.1
								110°	116.6	116.1	115.8	115.6



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CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
563.3	563.3	563.3	563.3	563.3	563.3	563.3	112.5°	140.1	139.1	138.6	138.1	138.3
481.9	483.5	481.2	481.2	482.7	489.2	489.2	115°	163.7	162.6	162.1	161.6	161.6
365.1	369.1	366.7	367.5	370.7	378.0	382.0	117.5°	186.2	185.2	184.6	184.1	184.3
262.0	265.1	266.8	269.1	278.9	279.7	284.5	120°	210.7	209.7	209.2	208.7	208.7
218.4	223.2	226.5	230.5	238.6	242.5	248.3	122.5°	238.3	236.3	235.3	234.3	234.1
183.7	189.3	192.6	200.7	205.5	210.3	217.6	125°	262.9	261.4	260.6	259.8	259.8
143.4	149.9	153.1	157.9	167.7	172.5	182.2	127.5°	287.4	285.9	285.2	284.4	284.2
103.9	106.4	112.8	120.9	126.5	134.6	139.4	130°	312.0	310.5	309.7	308.9	308.7
76.5	78.2	81.4	87.1	90.2	96.7	101.6	132.5°	336.6	335.0	334.3	333.5	333.3
66.1	66.9	68.5	70.1	71.7	74.2	76.5	135°	359.1	358.0	357.5	357.0	356.8
61.3	62.1	62.9	63.6	65.3	66.1	66.9	137.5°	382.6	380.5	379.5	378.5	378.3
58.0	58.0	58.8	60.5	60.5	62.1	62.9	140°	405.1	403.0	402.0	401.0	400.5
56.4	58.0	59.6	62.1	62.9	64.4	65.3	142.5°	425.5	424.0	423.3	422.5	422.3
48.4	48.4	49.2	50.7	50.7	51.6	52.4	145°	447.0	445.5	444.8	444.0	443.8
41.1	41.9	42.8	43.5	44.3	45.9	46.7	147.5°	466.5	464.9	464.2	463.4	463.2
39.5	39.5	40.3	41.9	42.8	43.5	44.3	150°	483.9	481.8	480.8	479.8	479.8
37.8	38.7	39.5	40.3	41.1	42.8	43.5	152.5°	500.2	498.7	498.0	497.2	497.2
37.0	37.8	38.7	39.5	41.1	41.9	42.8	155°	518.6	517.1	516.4	515.6	515.4
36.3	37.0	37.8	39.5	40.3	41.9	42.8	157.5°	535.0	532.4	531.1	529.9	529.7
35.5	36.3	37.0	38.7	40.3	41.9	43.5	160°	545.2	543.7	543.0	542.2	542.2
34.7	35.5	37.0	38.7	40.3	42.8	46.7	162.5°	552.4	551.4	550.9	550.3	550.9
33.9	35.5	37.0	38.7	41.1	44.3	48.4	165°	562.6	561.6	561.1	560.6	561.1
33.0	34.7	35.5	37.8	40.3	43.5	44.3	167.5°	575.9	573.9	572.9	571.8	571.6
31.4	33.0	33.9	36.3	39.5	40.3	39.5	170°	584.1	581.5	580.2	579.0	578.5
29.9	30.6	33.0	37.8	41.1	37.8	33.9	172.5°	584.1	582.6	581.9	581.0	580.8
29.1	29.9	31.4	34.7	35.5	31.4	30.6	175°	584.1	582.6	581.9	581.0	581.5
27.4	27.4	28.2	28.2	28.2	28.2	28.2	177.5°	590.2	588.7	588.0	587.2	587.2
25.0	25.0	25.8	25.8	25.8	25.8	25.8	180°	589.2	589.2	589.2	589.2	589.2
22.6	22.6	23.3	23.3	23.3	24.1	24.1						
20.2	21.0	21.0	21.8	21.8	21.8	22.6						
17.7	18.5	18.5	18.5	18.5	19.3	19.3						
15.3	15.3	16.2	16.2	16.2	16.2	16.2						
12.1	12.1	12.1	12.1	12.1	12.1	12.1						
7.3	7.3	8.1	7.3	7.3	6.4	6.4						
1.6	1.6	1.6	0.8	0.8	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						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.6	6.1	6.6	7.2	8.7	10.2	11.8						
28.4	29.2	29.9	30.7	31.2	31.7	32.2						
49.6	50.1	50.6	51.1	51.4	51.7	52.0						
71.1	71.6	72.1	72.6	72.6	72.6	72.6						
93.3	93.6	93.9	94.1	94.3	94.6	94.9						
115.8	116.1	116.4	116.6	116.6	116.6	116.6						



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CATALOG NUMBER: ISC-AF-350-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
138.6	138.9	139.1	139.1	139.1	139.1	0°	563.3	563.3	563.3	563.3	563.3	563.3
161.6	161.6	161.6	161.6	161.6	161.6	2.5°	501.2	501.2	502.9	509.3	511.0	515.0
184.6	184.9	185.2	184.9	184.6	184.3	5°	396.5	399.8	404.6	412.7	417.5	426.4
208.7	208.7	208.7	208.7	208.7	208.7	7.5°	295.7	300.6	304.6	313.5	320.8	329.6
233.7	233.4	233.2	233.2	233.2	233.2	10°	256.2	260.3	266.0	271.6	278.9	282.8
259.8	259.8	259.8	259.6	259.3	259.0	12.5°	228.1	233.7	239.4	247.5	254.7	262.0
283.9	283.6	283.4	283.6	283.9	284.2	15°	193.4	199.9	206.3	215.2	225.7	232.9
308.4	308.1	307.9	307.9	307.9	307.9	17.5°	149.9	157.1	166.0	178.1	189.3	198.2
333.0	332.7	332.5	332.5	332.5	332.5	20°	110.4	116.8	124.9	135.4	143.4	158.8
356.5	356.2	356.0	356.0	356.0	356.0	22.5°	81.4	85.4	91.9	99.9	108.8	122.5
378.0	377.7	377.5	377.5	377.5	377.5	25°	68.5	70.1	72.5	77.3	83.0	92.7
400.0	399.5	399.0	399.0	399.0	399.0	27.5°	63.6	64.4	66.1	68.5	71.7	76.5
422.0	421.7	421.5	421.5	421.5	421.5	30°	66.9	66.9	66.9	67.7	69.4	71.7
443.4	443.1	442.9	443.1	443.4	443.8	32.5°	54.0	54.8	54.8	56.4	57.2	60.5
462.9	462.6	462.4	462.9	463.4	463.9	35°	48.4	49.2	49.9	50.7	52.4	53.2
479.8	479.8	479.8	480.3	480.8	481.3	37.5°	45.9	46.7	47.6	47.6	48.4	49.9
497.2	497.2	497.2	497.4	497.7	498.0	40°	45.1	45.1	45.1	45.1	46.7	48.4
515.1	514.7	514.5	514.7	515.1	515.4	42.5°	43.5	43.5	43.5	44.3	46.7	49.9
529.4	529.1	528.9	529.4	529.9	530.4	45°	43.5	43.5	44.3	47.6	48.4	48.4
542.2	542.2	542.2	542.7	543.2	543.7	47.5°	45.1	46.7	47.6	46.7	45.9	45.9
551.4	551.9	552.4	552.9	553.4	553.9	50°	49.2	48.4	45.1	44.3	44.3	42.8
561.6	562.1	562.6	563.4	564.2	564.9	52.5°	48.4	45.1	44.3	42.8	41.1	40.3
571.3	571.0	570.8	571.3	571.8	572.3	55°	43.5	42.8	40.3	38.7	37.8	38.7
578.0	577.5	576.9	577.1	577.5	577.8	57.5°	37.8	37.0	35.5	35.5	36.3	37.0
580.5	580.2	580.0	580.5	581.0	581.5	60°	33.0	33.0	33.0	33.9	34.7	35.5
582.1	582.6	583.1	583.9	584.6	585.3	62.5°	29.9	30.6	30.6	32.2	33.0	33.9
587.2	587.2	587.2	588.0	588.7	589.4	65°	28.2	29.1	29.9	29.9	30.6	31.4
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	26.6	26.6	27.4	28.2	29.1	29.9
						70°	24.1	25.0	25.8	26.6	26.6	27.4
						72.5°	22.6	22.6	23.3	24.1	24.1	25.8
						75°	19.3	20.2	20.2	20.2	21.0	22.6
						77.5°	16.9	16.2	16.9	16.9	17.7	18.5
						80°	12.1	11.3	11.3	12.1	12.1	12.1
						82.5°	6.4	5.6	6.4	5.6	5.6	6.4
						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°	13.3	12.3	11.3	10.2	9.2	8.0
						100°	32.7	32.2	31.7	31.2	30.7	28.6
						102.5°	52.2	52.0	51.7	51.4	51.1	49.9
						105°	72.6	72.4	72.1	71.8	71.6	70.6
						107.5°	95.1	94.6	94.1	93.6	93.1	92.3
						110°	116.6	116.1	115.6	115.1	114.6	114.1

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CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
563.3	563.3	563.3	563.3	563.3	112.5°	139.1	138.6	138.1	137.6	137.1	136.6	136.1
514.2	521.4	524.7	544.0	564.2	115°	161.6	161.1	160.6	160.1	159.6	159.1	158.6
424.7	439.3	441.6	477.1	511.8	117.5°	184.1	183.9	183.6	183.3	183.1	182.6	182.1
332.0	348.9	353.8	400.6	448.9	120°	208.7	208.2	207.7	207.1	206.6	206.4	206.1
289.3	297.4	303.0	337.7	393.3	122.5°	233.2	233.0	232.7	232.4	232.2	232.0	231.7
268.4	276.4	283.7	311.9	355.4	125°	258.8	258.6	258.3	258.0	257.8	257.6	257.3
240.2	249.0	257.9	292.6	343.3	127.5°	284.4	283.9	283.4	282.8	282.3	281.8	281.3
205.5	217.6	228.9	270.8	337.7	130°	307.9	307.4	306.9	306.4	305.9	305.7	305.4
166.8	181.4	195.1	247.5	329.6	132.5°	332.5	331.6	330.9	330.2	329.4	329.2	328.9
131.3	144.2	159.6	225.7	329.6	135°	356.0	355.2	354.5	353.7	352.9	352.9	352.9
101.6	114.5	129.7	206.3	338.5	137.5°	377.5	377.0	376.4	375.9	375.4	375.4	375.4
83.0	93.5	108.8	191.0	351.4	140°	399.0	398.7	398.4	398.1	397.9	397.7	397.4
75.0	81.4	91.0	168.5	360.3	142.5°	421.5	420.9	420.4	419.9	419.4	419.4	419.4
63.6	68.5	77.3	154.8	365.9	145°	444.0	443.4	442.9	442.4	441.9	441.7	441.4
56.4	62.1	70.9	145.9	365.1	147.5°	464.4	464.2	463.9	463.6	463.4	463.2	462.9
52.4	58.0	68.5	142.7	365.1	150°	481.8	481.6	481.3	481.0	480.8	480.6	480.3
52.4	58.0	66.9	139.4	367.5	152.5°	498.2	498.0	497.7	497.4	497.2	496.9	496.6
51.6	54.8	62.1	137.8	371.5	155°	515.6	515.4	515.1	514.7	514.5	514.5	514.5
49.2	51.6	58.8	137.8	379.6	157.5°	530.9	530.9	530.9	530.9	530.9	530.9	530.9
45.9	49.2	56.4	140.2	394.9	160°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
43.5	46.7	55.6	140.2	426.4	162.5°	554.4	554.2	553.9	553.6	553.4	553.4	553.4
41.1	45.9	54.8	138.6	471.5	165°	565.7	565.5	565.2	564.9	564.7	564.7	564.7
40.3	44.3	53.2	137.0	527.1	167.5°	572.9	572.9	572.9	572.9	572.9	573.1	573.4
39.5	42.8	49.2	133.0	571.4	170°	578.0	578.2	578.5	578.8	579.0	579.2	579.5
37.8	40.3	45.1	125.7	601.2	172.5°	582.1	581.9	581.5	581.2	581.0	581.2	581.5
35.5	37.8	41.1	117.6	607.6	175°	586.2	585.9	585.6	585.3	585.1	585.1	585.1
33.9	36.3	41.1	111.2	568.1	177.5°	590.2	590.2	590.2	590.2	590.2	590.4	590.8
31.4	35.5	41.9	105.6	481.9	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
29.9	35.5	42.8	103.1	382.8								
28.2	34.7	43.5	99.1	288.6								
25.8	31.4	37.8	82.2	195.1								
21.0	24.1	28.2	52.4	103.1								
13.7	14.5	16.2	32.2	57.2								
6.4	8.1	8.1	15.3	25.8								
0.0	0.0	0.0	1.6	5.6								
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								
1.0	1.0	1.0	1.0	1.0								
6.6	5.3	4.1	3.1	2.0								
26.6	24.6	22.5	14.3	10.2								
48.6	47.3	46.0	38.9	32.7								
69.6	68.5	67.5	62.4	57.3								
91.6	90.8	90.0	85.9	81.8								
113.5	113.0	112.5	108.4	105.4								

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CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
135.5	135.0	132.0	128.9	0°	563.3	563.3	563.3
158.0	157.5	154.5	152.4	2.5°	583.5	593.2	598.0
181.6	181.1	178.0	175.9	5°	552.1	572.2	578.7
205.8	205.6	202.5	200.5	7.5°	504.5	527.1	535.9
231.4	231.2	228.1	226.1	10°	457.0	485.2	494.1
257.0	256.8	253.7	252.7	12.5°	428.7	462.6	467.5
280.8	280.3	278.2	276.2	15°	417.5	452.1	461.8
305.0	304.8	300.7	299.7	17.5°	428.7	467.5	477.1
328.6	328.4	325.3	324.3	20°	450.5	498.1	513.4
352.9	352.9	348.8	346.8	22.5°	487.6	552.1	571.4
375.4	375.4	372.4	371.3	25°	548.0	637.5	654.4
397.1	396.9	394.9	393.8	27.5°	612.5	705.2	731.8
419.4	419.4	416.3	417.4	30°	668.9	768.0	789.8
441.1	440.9	437.8	437.8	32.5°	709.2	818.1	843.0
462.6	462.4	458.3	457.3	35°	756.8	875.2	899.4
480.0	479.8	475.7	474.6	37.5°	811.6	944.6	977.6
496.3	496.1	493.1	494.1	40°	872.1	1016.3	1053.3
514.5	514.5	512.5	513.5	42.5°	926.8	1083.2	1124.3
530.9	530.9	527.8	528.9	45°	969.6	1146.0	1178.2
544.2	544.2	541.1	541.1	47.5°	1018.8	1194.4	1230.7
553.4	553.4	550.3	551.4	50°	1086.4	1255.7	1298.3
564.7	564.7	560.6	561.6	52.5°	1185.5	1359.6	1390.3
573.7	573.9	570.8	571.8	55°	1305.6	1485.3	1520.0
579.8	580.0	578.0	579.0	57.5°	1416.1	1602.2	1632.0
581.9	582.1	580.0	582.1	60°	1487.0	1656.2	1681.2
585.1	585.1	582.1	583.1	62.5°	1487.8	1657.8	1689.2
591.1	591.3	587.2	588.2	65°	1429.0	1622.4	1657.8
589.2	589.2	589.2	589.2	67.5°	1279.8	1532.1	1586.9
				70°	1080.7	1354.8	1416.1
				72.5°	843.0	1064.7	1134.8
				75°	571.4	706.9	768.0
				77.5°	363.5	407.9	428.0
				80°	214.4	241.0	251.4
				82.5°	133.0	143.4	154.0
				85°	54.0	38.7	41.9
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.2	8.2	8.2
				102.5°	28.6	28.6	28.6
				105°	55.2	55.2	55.2
				107.5°	78.8	79.6	79.8
				110°	104.3	103.5	103.3

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	126.8	126.8	126.8
115°	150.4	149.6	149.4
117.5°	173.9	173.1	172.9
120°	199.5	197.8	197.4
122.5°	225.0	224.2	224.0
125°	251.6	250.0	249.6
127.5°	275.2	273.5	273.1
130°	298.7	297.1	296.7
132.5°	321.2	320.4	320.2
135°	344.7	343.9	343.7
137.5°	368.3	367.4	367.2
140°	391.8	391.0	390.8
142.5°	415.3	413.7	413.3
145°	435.8	435.0	434.8
147.5°	454.2	454.2	454.2
150°	472.6	471.8	471.6
152.5°	491.0	490.2	490.0
155°	511.5	510.7	510.5
157.5°	526.8	525.2	524.8
160°	539.1	537.5	537.0
162.5°	548.3	547.5	547.3
165°	559.6	558.7	558.5
167.5°	568.8	567.9	567.7
170°	575.9	575.1	574.9
172.5°	579.0	578.2	578.0
175°	582.1	580.4	580.0
177.5°	586.2	585.3	585.1
180°	589.2	589.2	589.2

(END OF REPORT)