

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: P228660

Luminaire Tested: **ISC-AF-1000-LED-E1-SLR-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228660
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-SLR-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 6392.6 lumens
Efficiency: N/A
Efficacy: 89.7 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

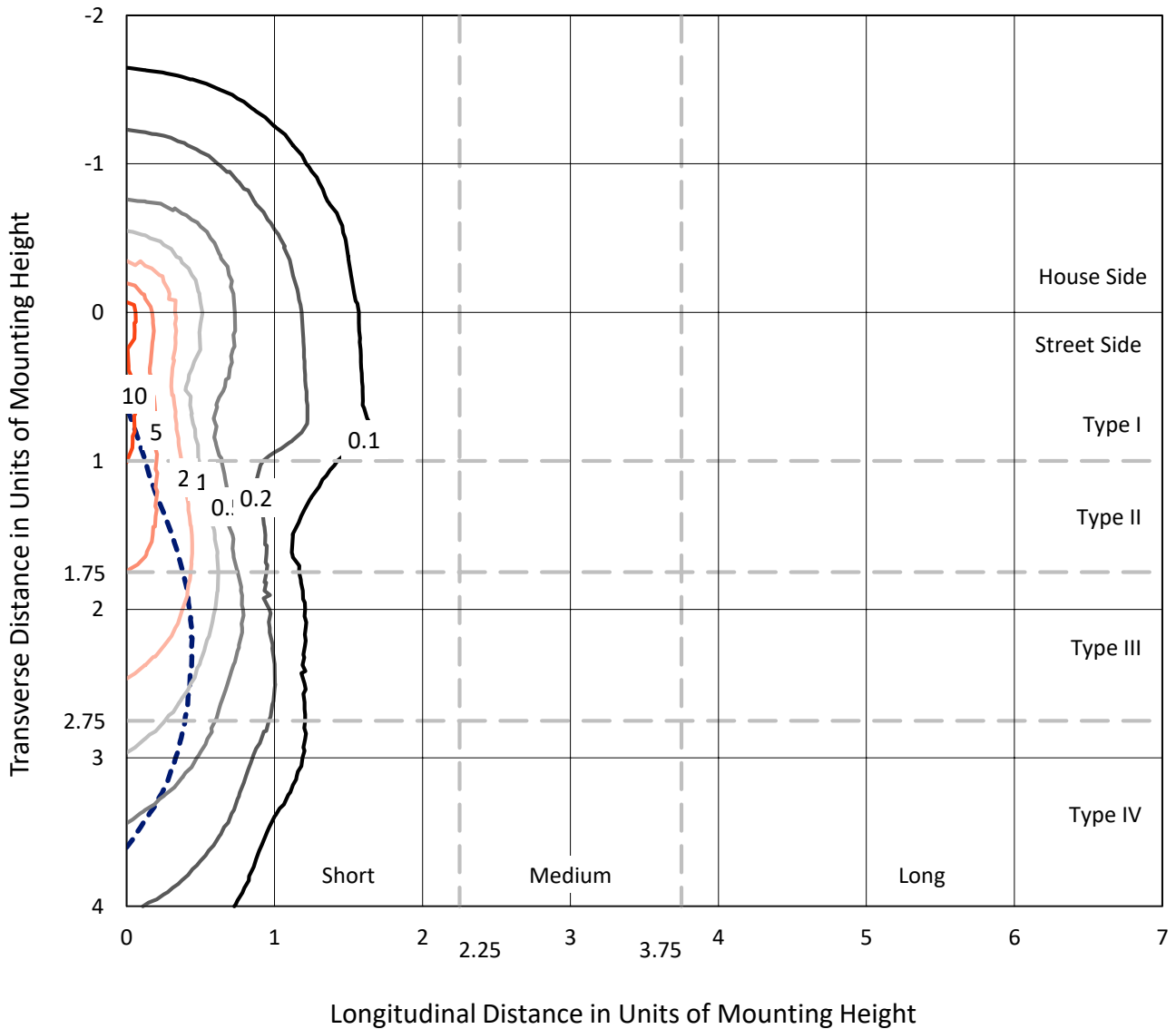
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

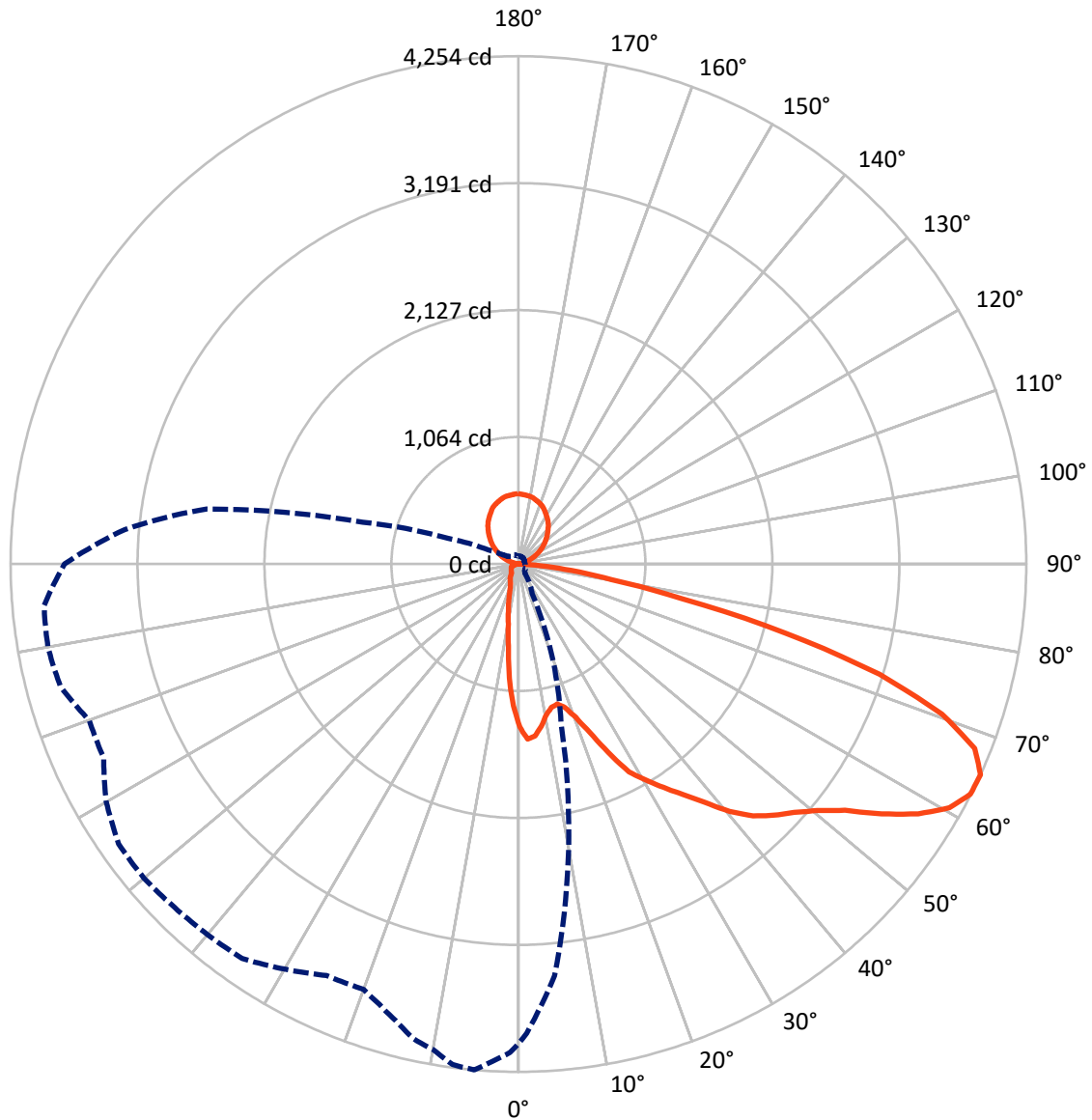
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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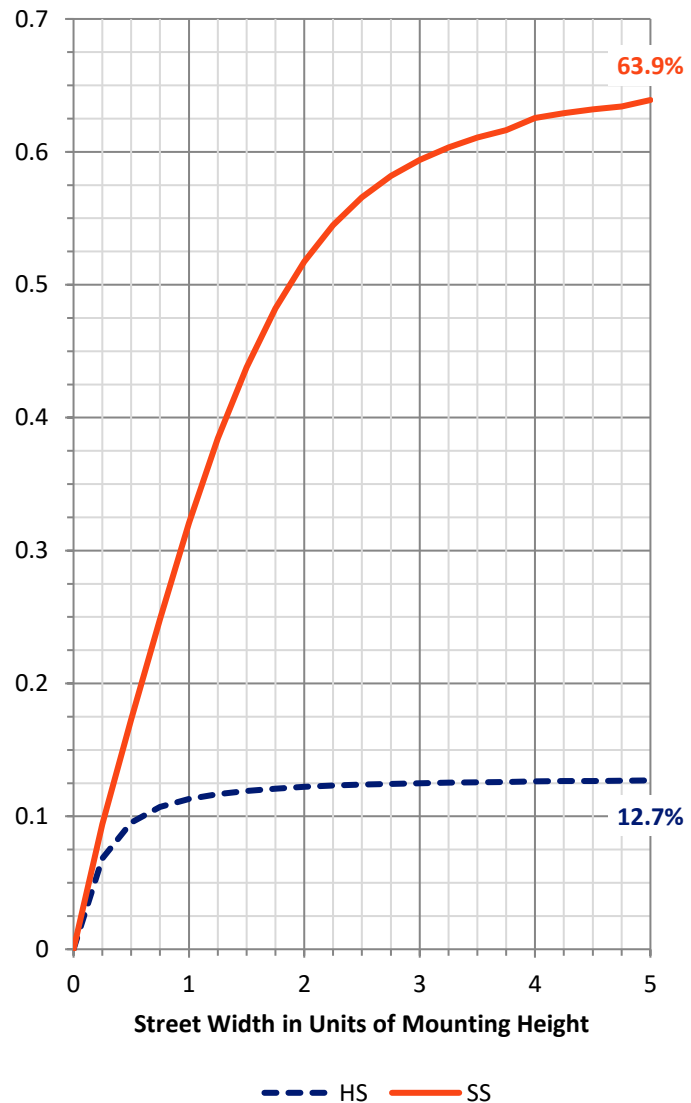
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	820.4	729.4	1549.8
	% Fixture	12.8	11.4	24.2
Street Side	Lumens	4113.3	729.4	4842.8
	% Fixture	64.3	11.4	75.8
Total	Lumens	4933.7	1458.9	6392.6
	% Fixture	77.2	22.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.6
10°-20°	216.0	3.4
20°-30°	314.1	4.9
30°-40°	464.5	7.3
40°-50°	676.7	10.6
50°-60°	1014.5	15.9
60°-70°	1264.1	19.8
70°-80°	740.5	11.6
80°-90°	138.5	2.2
90°-100°	4.8	0.1
100°-110°	70.6	1.1
110°-120°	156.6	2.4
120°-130°	229.0	3.6
130°-140°	271.7	4.3
140°-150°	275.5	4.3
150°-160°	236.4	3.7
160°-170°	158.7	2.5
170°-180°	55.6	0.9
0°-90°	4933.7	77.2
0°-180°	6392.6	100.0



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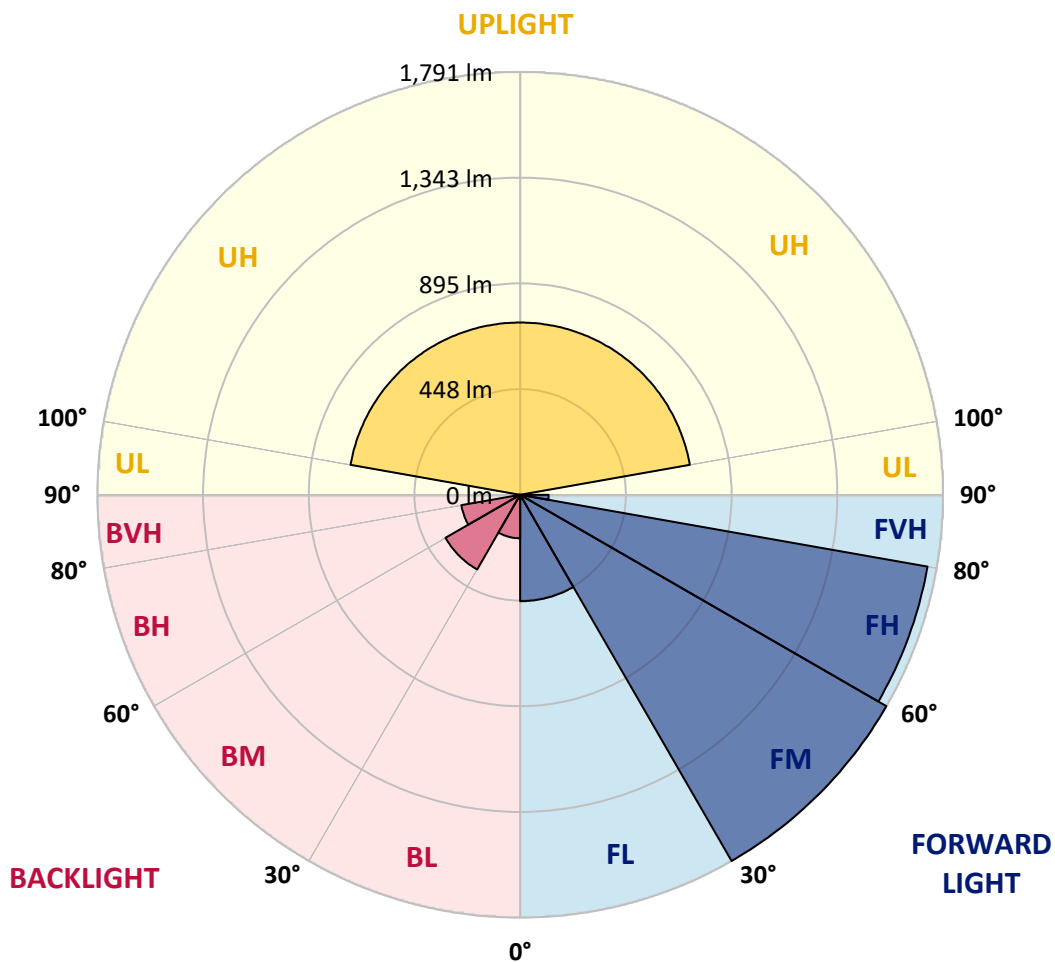
CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.7	7.1			
FM	(30°-60°)	1790.5	28.0			
FH	(60°-80°)	1751.5	27.4			G1/1800
FVH	(80°-90°)	120.6	1.9			G2/225
BL	(0°-30°)	184.2	2.9	B1/500		
BM	(30°-60°)	365.1	5.7	B1/1000		
BH	(60°-80°)	253.2	4.0	B1/500		G1/500
BVH	(80°-90°)	17.8	0.3			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	11.4		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1449.3	1437.7	1414.2	1367.3	1318.5	1271.6	1263.8	1246.2	1248.1	1238.4	1234.5
5°	1402.5	1386.8	1338.0	1240.3	1156.3	1070.4	1064.6	1029.4	1033.3	1011.8	1000.0
7.5°	1298.9	1277.5	1222.7	1088.0	970.8	857.5	845.8	804.8	798.9	777.4	759.8
10°	1197.4	1175.9	1107.5	953.2	818.5	734.5	720.8	701.2	685.6	675.9	658.3
12.5°	1132.9	1121.2	1039.1	861.4	756.0	687.5	669.9	650.5	634.8	617.2	599.7
15°	1119.2	1095.8	1011.8	832.1	709.0	625.0	603.5	582.1	564.5	546.9	521.5
17.5°	1156.3	1132.9	1039.1	818.5	656.3	554.7	527.4	498.1	480.5	459.0	431.7
20°	1244.2	1207.1	1091.9	798.9	599.7	472.7	439.5	404.4	384.8	347.7	328.2
22.5°	1384.9	1338.0	1181.7	798.9	546.9	386.8	349.6	318.3	296.9	263.7	242.2
25°	1586.1	1545.1	1328.2	820.4	500.0	314.5	277.3	246.1	224.6	201.2	187.5
27.5°	1773.6	1709.1	1484.5	851.6	462.9	263.7	226.6	201.2	185.6	173.8	166.0
30°	1914.2	1861.5	1621.3	873.1	408.3	220.8	197.3	181.7	173.8	168.0	164.1
32.5°	2043.1	1982.6	1718.9	886.8	375.0	187.5	166.0	154.3	146.5	138.7	136.8
35°	2179.9	2121.3	1834.2	884.9	353.5	171.9	150.4	136.8	128.9	126.9	123.1
37.5°	2369.4	2289.3	1966.9	884.9	345.8	166.0	140.7	126.9	121.1	117.2	115.3
40°	2553.0	2463.1	2113.4	890.7	337.9	162.1	140.7	126.9	117.2	113.2	109.4
42.5°	2724.8	2625.2	2246.3	900.5	334.0	150.4	132.8	125.0	121.1	113.2	107.4
45°	2855.7	2777.6	2349.8	920.0	334.0	142.6	125.0	119.2	117.2	117.2	115.3
47.5°	2982.7	2894.7	2469.0	957.1	339.8	136.8	119.2	111.3	111.3	111.3	113.2
50°	3146.7	3043.2	2633.1	1033.3	339.8	134.8	113.2	105.5	103.5	107.4	107.4
52.5°	3369.4	3295.2	2873.3	1142.6	335.9	132.8	111.3	99.6	97.7	99.6	103.5
55°	3683.9	3599.9	3164.3	1277.5	332.0	128.9	107.4	97.7	93.8	91.8	93.8
57.5°	3955.4	3883.1	3431.9	1384.9	322.3	119.2	103.5	95.7	89.8	87.9	85.9
60°	4074.5	4014.0	3603.9	1457.2	304.7	109.4	97.7	91.8	85.9	84.0	82.0
62.5°	4094.1	4017.9	3605.8	1472.7	285.2	99.6	91.8	85.9	82.0	80.1	78.2
65°	4017.9	3931.9	3463.2	1377.1	269.5	99.6	87.9	82.0	76.2	74.3	72.3
67.5°	3846.0	3713.2	3101.8	1168.1	255.8	101.6	85.9	76.2	72.3	70.3	68.3
70°	3431.9	3283.5	2619.4	927.8	250.0	103.5	85.9	72.3	66.4	64.4	64.4
72.5°	2750.2	2580.3	2043.1	699.3	240.3	105.5	84.0	68.3	62.5	58.6	58.6
75°	1861.5	1713.0	1384.9	472.7	199.3	91.8	76.2	62.5	54.7	50.7	48.8
77.5°	1037.2	988.4	881.0	250.0	126.9	68.3	58.6	50.7	44.9	43.0	41.0
80°	609.5	584.0	519.6	138.7	78.2	39.1	35.2	33.2	29.3	29.3	29.3
82.5°	373.1	347.7	322.3	62.5	37.1	19.5	19.5	15.7	15.7	13.7	13.7
85°	101.6	93.8	130.8	13.7	3.9	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	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	3.1	4.1	5.3	6.6	8.0	9.2	10.2
100°	8.2	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2
102.5°	28.6	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4
105°	55.2	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8
107.5°	79.8	79.6	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6
110°	103.3	103.5	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	126.8	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6
115°	149.4	149.6	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1
117.5°	172.9	173.1	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3
120°	197.4	197.8	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1
122.5°	224.0	224.2	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4
125°	249.6	250.0	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0
127.5°	273.1	273.5	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8
130°	296.7	297.1	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4
132.5°	320.2	320.4	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2
135°	343.7	343.9	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7
137.5°	367.2	367.4	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9
140°	390.8	391.0	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1
142.5°	413.3	413.7	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9
145°	434.8	435.0	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4
147.5°	454.2	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6
150°	471.6	471.8	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0
152.5°	490.0	490.2	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4
155°	510.5	510.7	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7
157.5°	524.8	525.2	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	537.5	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	547.5	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.6
165°	558.5	558.7	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9
167.5°	567.7	567.9	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9
170°	574.9	575.1	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8
172.5°	578.0	578.2	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2
175°	580.0	580.4	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3
177.5°	585.1	585.3	586.2	588.2	587.2	591.3	591.1	590.8	590.4	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1218.8	1215.0	1215.0	1185.6	1185.6	1170.1	1166.1	1166.1	1172.0	1168.1	1144.6
5°	980.6	968.8	961.1	925.9	916.1	898.6	890.7	888.7	894.6	884.9	853.6
7.5°	738.4	728.5	716.9	689.5	677.8	675.9	652.4	646.5	642.6	634.8	615.3
10°	644.6	631.0	621.1	601.6	587.9	578.2	558.6	548.9	541.0	529.4	523.4
12.5°	580.1	566.4	552.8	527.4	509.8	498.1	486.4	466.9	459.0	445.4	437.5
15°	500.0	484.4	468.8	441.4	418.0	406.3	382.9	371.1	363.4	347.7	339.8
17.5°	402.3	380.8	363.4	337.9	326.2	306.7	293.0	273.4	257.8	252.0	246.1
20°	302.8	283.3	267.6	246.1	234.4	218.8	210.9	197.3	189.5	185.6	181.7
22.5°	222.7	207.0	197.3	185.6	179.7	173.8	169.9	166.0	162.1	160.2	160.2
25°	175.8	169.9	166.0	162.1	160.2	158.3	154.3	152.3	150.4	148.4	148.4
27.5°	160.2	156.3	154.3	152.3	150.4	146.5	146.5	142.6	140.7	140.7	138.7
30°	162.1	162.1	162.1	158.3	156.3	152.3	150.4	144.5	140.7	136.8	134.8
32.5°	132.8	132.8	130.8	126.9	125.0	123.1	123.1	119.2	117.2	117.2	121.1
35°	121.1	119.2	117.2	113.2	111.3	107.4	105.5	103.5	101.6	99.6	99.6
37.5°	115.3	113.2	111.3	107.4	105.5	103.5	101.6	97.7	95.7	95.7	93.8
40°	109.4	109.4	109.4	105.5	103.5	99.6	97.7	95.7	93.8	91.8	91.8
42.5°	105.5	105.5	105.5	103.5	101.6	99.6	95.7	93.8	91.8	89.8	87.9
45°	107.4	105.5	105.5	103.5	101.6	97.7	95.7	91.8	89.8	87.9	85.9
47.5°	115.3	113.2	109.4	105.5	101.6	97.7	93.8	89.8	87.9	85.9	84.0
50°	109.4	117.2	119.2	113.2	103.5	97.7	93.8	89.8	85.9	84.0	82.0
52.5°	107.4	109.4	117.2	117.2	107.4	99.6	93.8	89.8	85.9	82.0	80.1
55°	97.7	103.5	105.5	107.4	105.5	97.7	91.8	85.9	84.0	80.1	76.2
57.5°	85.9	89.8	91.8	95.7	97.7	95.7	87.9	82.0	80.1	76.2	72.3
60°	80.1	80.1	80.1	82.0	91.8	99.6	91.8	80.1	74.3	72.3	68.3
62.5°	74.3	74.3	72.3	74.3	76.2	85.9	84.0	76.2	72.3	70.3	66.4
65°	72.3	70.3	68.3	68.3	68.3	68.3	68.3	68.3	66.4	66.4	64.4
67.5°	66.4	64.4	64.4	62.5	62.5	62.5	62.5	62.5	60.6	60.6	58.6
70°	62.5	60.6	58.6	58.6	58.6	56.7	56.7	56.7	54.7	54.7	54.7
72.5°	56.7	54.7	54.7	54.7	52.8	52.8	52.8	50.7	50.7	48.8	48.8
75°	48.8	48.8	46.9	46.9	46.9	44.9	44.9	44.9	44.9	43.0	43.0
77.5°	41.0	39.1	41.0	39.1	39.1	39.1	39.1	39.1	37.1	37.1	35.2
80°	27.3	27.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	27.3
82.5°	15.7	13.7	15.7	15.7	15.7	17.6	17.6	19.5	17.6	17.6	15.7
85°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.9	3.9	3.9	3.9
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°	11.3	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	31.7	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	51.7	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.1	72.4	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.1	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1
110°	115.6	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6



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

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	138.1	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	160.6	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.6	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	207.7	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	232.7	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.3	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.4	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	306.9	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	330.9	331.6	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	354.5	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	376.4	377.0	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.4	398.7	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.4	420.9	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	442.9	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	463.9	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.3	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	497.7	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.1	515.4	515.6	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	553.9	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.2	565.5	565.7	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.5	578.2	578.0	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.5	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.6	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	590.2	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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CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1156.3	1154.4	1134.9	1138.7	1132.9	1121.2	1123.1	1125.1	1129.0	1121.2	1117.3
5°	869.2	871.1	845.8	853.6	847.7	845.8	851.6	861.4	867.3	865.3	859.5
7.5°	617.2	619.2	597.7	595.8	589.9	587.9	595.8	605.5	611.4	609.5	611.4
10°	509.8	503.9	484.4	470.8	457.1	445.4	443.3	443.3	443.3	439.5	435.6
12.5°	421.9	416.0	392.6	380.8	369.2	353.5	351.6	349.6	343.8	337.9	330.1
15°	328.2	322.3	302.8	294.9	285.2	279.4	277.3	277.3	273.4	269.5	265.7
17.5°	238.3	234.4	222.7	214.8	212.9	214.8	216.9	220.8	222.7	224.6	224.6
20°	179.7	177.8	173.8	173.8	175.8	181.7	183.6	189.5	191.4	195.3	199.3
22.5°	158.3	158.3	156.3	156.3	160.2	166.0	169.9	171.9	173.8	175.8	175.8
25°	146.5	146.5	144.5	148.4	154.3	154.3	154.3	154.3	150.4	148.4	148.4
27.5°	138.7	138.7	138.7	140.7	138.7	136.8	136.8	136.8	134.8	134.8	132.8
30°	132.8	132.8	132.8	130.8	130.8	128.9	128.9	126.9	126.9	125.0	125.0
32.5°	123.1	119.2	123.1	119.2	119.2	117.2	119.2	119.2	115.3	115.3	115.3
35°	97.7	95.7	95.7	95.7	93.8	95.7	99.6	99.6	99.6	99.6	99.6
37.5°	91.8	91.8	89.8	87.9	87.9	85.9	87.9	85.9	85.9	85.9	87.9
40°	89.8	87.9	85.9	85.9	84.0	82.0	82.0	82.0	82.0	82.0	82.0
42.5°	85.9	85.9	82.0	80.1	80.1	78.2	78.2	78.2	78.2	78.2	78.2
45°	84.0	82.0	80.1	78.2	76.2	76.2	76.2	76.2	76.2	76.2	74.3
47.5°	82.0	80.1	78.2	76.2	74.3	72.3	72.3	72.3	72.3	72.3	72.3
50°	80.1	78.2	74.3	74.3	72.3	70.3	70.3	70.3	70.3	70.3	70.3
52.5°	76.2	76.2	72.3	70.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
55°	72.3	72.3	68.3	66.4	64.4	64.4	64.4	64.4	66.4	66.4	66.4
57.5°	70.3	68.3	64.4	64.4	60.6	60.6	60.6	62.5	62.5	64.4	64.4
60°	66.4	64.4	62.5	60.6	60.6	58.6	58.6	58.6	58.6	60.6	60.6
62.5°	64.4	62.5	58.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
65°	60.6	60.6	56.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
67.5°	56.7	56.7	52.8	50.7	50.7	50.7	52.8	50.7	50.7	50.7	50.7
70°	52.8	50.7	48.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
72.5°	46.9	46.9	44.9	43.0	43.0	43.0	43.0	43.0	43.0	43.0	44.9
75°	41.0	39.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
77.5°	35.2	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	33.2
80°	25.4	23.4	23.4	23.4	23.4	25.4	25.4	25.4	25.4	25.4	25.4
82.5°	15.7	13.7	13.7	13.7	15.7	17.6	17.6	17.6	17.6	19.5	19.5
85°	3.9	3.9	3.9	3.9	7.8	9.7	9.7	9.7	11.8	9.7	9.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	0°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	2.5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	7.5°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	10°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	12.5°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	15°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	17.5°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	20°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	22.5°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	25°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	27.5°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	30°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	32.5°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	35°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	37.5°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	40°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	42.5°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	45°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	47.5°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	50°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	52.5°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	55°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	57.5°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	60°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	62.5°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	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

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	139.1
1113.4	1136.8	1136.8	1121.2	1129.0	1121.2	1119.2	1132.9	1140.7	1166.1	1181.7	115°	161.6
861.4	890.7	892.6	884.9	894.6	888.7	894.6	912.2	925.9	943.5	959.0	117.5°	185.2
615.3	642.6	648.4	642.6	660.2	658.3	662.2	681.7	693.5	703.2	705.1	120°	208.7
433.6	437.5	453.2	449.3	460.9	459.0	464.9	480.5	496.1	502.0	506.0	122.5°	233.2
326.2	322.3	328.2	320.4	326.2	326.2	328.2	337.9	357.4	365.3	384.8	125°	259.8
263.7	259.8	259.8	255.8	255.8	253.9	255.8	263.7	277.3	289.1	304.7	127.5°	283.4
224.6	224.6	224.6	222.7	220.8	220.8	222.7	226.6	234.4	242.2	250.0	130°	307.9
201.2	205.1	207.0	209.0	210.9	212.9	214.8	220.8	218.8	210.9	201.2	132.5°	332.5
175.8	175.8	177.8	177.8	175.8	175.8	175.8	175.8	175.8	181.7	187.5	135°	356.0
146.5	146.5	146.5	148.4	146.5	146.5	148.4	148.4	150.4	154.3	160.2	137.5°	377.5
132.8	132.8	132.8	132.8	132.8	132.8	132.8	134.8	136.8	142.6	146.5	140°	399.0
123.1	123.1	121.1	121.1	121.1	119.2	121.1	121.1	123.1	130.8	136.8	142.5°	421.5
113.2	111.3	111.3	111.3	109.4	109.4	109.4	113.2	115.3	119.2	125.0	145°	442.9
99.6	99.6	99.6	101.6	101.6	101.6	101.6	105.5	105.5	107.4	107.4	147.5°	462.4
89.8	89.8	91.8	93.8	93.8	95.7	95.7	97.7	99.6	97.7	95.7	150°	479.8
82.0	84.0	84.0	87.9	87.9	87.9	89.8	91.8	93.8	89.8	89.8	152.5°	497.2
78.2	78.2	78.2	80.1	80.1	80.1	82.0	84.0	85.9	85.9	85.9	155°	514.5
74.3	74.3	74.3	76.2	74.3	74.3	74.3	76.2	80.1	80.1	82.0	157.5°	528.9
72.3	72.3	72.3	70.3	70.3	70.3	70.3	72.3	74.3	78.2	80.1	160°	542.2
70.3	68.3	68.3	68.3	68.3	68.3	68.3	70.3	72.3	74.3	78.2	162.5°	552.4
66.4	66.4	66.4	66.4	66.4	66.4	66.4	68.3	70.3	72.3	74.3	165°	562.6
66.4	66.4	64.4	64.4	66.4	66.4	66.4	68.3	70.3	72.3	72.3	167.5°	570.8
64.4	62.5	62.5	64.4	64.4	64.4	64.4	66.4	68.3	70.3	70.3	170°	576.9
60.6	60.6	60.6	60.6	62.5	62.5	64.4	66.4	66.4	68.3	68.3	172.5°	580.0
56.7	58.6	58.6	58.6	60.6	60.6	62.5	64.4	66.4	68.3	66.4	175°	583.1
54.7	56.7	56.7	56.7	58.6	58.6	58.6	62.5	64.4	64.4	66.4	177.5°	587.2
52.8	52.8	52.8	54.7	54.7	56.7	56.7	60.6	60.6	62.5	64.4	180°	589.2
48.8	48.8	48.8	50.7	50.7	52.8	54.7	56.7	56.7	58.6	60.6		
44.9	44.9	44.9	46.9	46.9	48.8	50.7	54.7	52.8	54.7	54.7		
39.1	39.1	41.0	41.0	43.0	44.9	46.9	46.9	46.9	46.9	46.9		
33.2	33.2	35.2	35.2	37.1	39.1	39.1	39.1	41.0	39.1	39.1		
27.3	27.3	29.3	29.3	29.3	29.3	31.3	29.3	31.3	29.3	31.3		
19.5	19.5	21.5	19.5	21.5	19.5	19.5	17.6	21.5	19.5	19.5		
7.8	9.7	9.7	9.7	9.7	7.8	7.8	5.8	7.8	7.8	5.8		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		
116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4		

'228660
 ISC-AF-1000-LED-E1-SLR-ULG

REPORT NUMBER: P228660
 CATALOG NUMBER: ISC-AF-10

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	0°	1365.3	1365.3
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	2.5°	1187.6	1185.6
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	5°	961.1	957.1
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	7.5°	687.5	679.8
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	10°	507.9	513.7
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	12.5°	406.3	429.7
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	15°	326.2	339.8
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	17.5°	252.0	257.8
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	20°	201.2	201.2
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	22.5°	175.8	173.8
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	25°	166.0	164.1
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	27.5°	150.4	152.3
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	30°	140.7	142.6
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	32.5°	128.9	130.8
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	35°	105.5	105.5
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	37.5°	97.7	97.7
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	40°	91.8	93.8
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	42.5°	87.9	87.9
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	45°	84.0	85.9
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°	82.0	82.0
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	50°	78.2	80.1
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	52.5°	76.2	78.2
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	55°	74.3	74.3
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	57.5°	70.3	72.3
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	60°	70.3	70.3
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	62.5°	68.3	68.3
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	65°	66.4	66.4
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	62.5	62.5
										70°	58.6	58.6
										72.5°	54.7	52.8
										75°	46.9	46.9
										77.5°	39.1	39.1
										80°	29.3	27.3
										82.5°	17.6	15.7
										85°	5.8	5.8
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8
										110°	104.3	103.3



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CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	126.8	126.8	126.8
1215.0	1236.4	1250.1	1302.8	1326.3	1355.6	1369.2	1388.8	1408.3	115°	150.4	149.4	150.4
992.3	1019.6	1043.1	1119.2	1164.1	1205.1	1238.4	1269.7	1314.6	117.5°	173.9	172.9	173.9
703.2	726.6	757.9	839.9	918.0	972.7	1021.5	1074.3	1132.9	120°	199.5	197.4	199.5
537.2	572.3	613.4	675.9	738.4	777.4	820.4	879.0	949.3	122.5°	225.0	224.0	225.0
449.3	492.2	541.0	611.4	677.8	709.0	740.3	769.6	806.7	125°	251.6	249.6	251.6
355.5	396.5	455.1	537.2	615.3	650.5	687.5	722.7	756.0	127.5°	275.2	273.1	275.2
265.7	294.9	347.7	445.4	531.3	576.2	619.2	668.0	713.0	130°	298.7	296.7	298.7
203.2	216.9	253.9	330.1	435.6	492.2	546.9	609.5	673.9	132.5°	321.2	320.2	321.2
175.8	181.7	199.3	244.2	339.8	406.3	476.6	554.7	634.8	135°	344.7	343.7	344.7
162.1	166.0	175.8	197.3	265.7	335.9	408.3	502.0	599.7	137.5°	368.3	367.2	368.3
154.3	158.3	166.0	177.8	220.8	273.4	353.5	457.1	574.3	140°	391.8	390.8	391.8
144.5	148.4	162.1	175.8	201.2	234.4	302.8	404.4	535.2	142.5°	415.3	413.3	415.3
132.8	134.8	138.7	154.3	171.9	199.3	257.8	357.4	494.2	145°	435.8	434.8	435.8
107.4	113.2	121.1	136.8	154.3	175.8	230.5	326.2	468.8	147.5°	454.2	454.2	454.2
99.6	105.5	113.2	126.9	142.6	162.1	218.8	314.5	445.4	150°	472.6	471.6	472.6
93.8	99.6	107.4	123.1	132.8	156.3	212.9	296.9	421.9	152.5°	491.0	490.0	491.0
89.8	95.7	105.5	117.2	130.8	152.3	197.3	281.3	408.3	155°	511.5	510.5	511.5
85.9	91.8	103.5	113.2	132.8	144.5	187.5	269.5	396.5	157.5°	526.8	524.8	526.8
84.0	89.8	101.6	115.3	128.9	136.8	177.8	259.8	386.8	160°	539.1	537.0	539.1
82.0	87.9	99.6	126.9	123.1	130.8	169.9	252.0	380.8	162.5°	548.3	547.3	548.3
80.1	85.9	99.6	128.9	119.2	123.1	164.1	244.2	377.0	165°	559.6	558.5	559.6
76.2	84.0	99.6	119.2	111.3	119.2	152.3	232.4	367.2	167.5°	568.8	567.7	568.8
74.3	80.1	97.7	109.4	105.5	113.2	140.7	212.9	353.5	170°	575.9	574.9	575.9
72.3	78.2	97.7	97.7	99.6	107.4	126.9	189.5	330.1	172.5°	579.0	578.0	579.0
70.3	78.2	99.6	87.9	93.8	101.6	117.2	169.9	300.8	175°	582.1	580.0	582.1
68.3	74.3	85.9	84.0	89.8	95.7	113.2	156.3	275.4	177.5°	586.2	585.1	586.2
64.4	70.3	76.2	78.2	85.9	91.8	111.3	154.3	252.0	180°	589.2	589.2	589.2
58.6	64.4	68.3	74.3	80.1	87.9	111.3	152.3	234.4				
54.7	58.6	62.5	66.4	72.3	82.0	109.4	154.3	226.6				
46.9	50.7	54.7	58.6	64.4	76.2	103.5	144.5	203.2				
37.1	43.0	46.9	48.8	54.7	66.4	89.8	123.1	164.1				
27.3	33.2	35.2	39.1	43.0	50.7	70.3	89.8	121.1				
15.7	21.5	23.4	25.4	33.2	37.1	46.9	58.6	82.0				
5.8	9.7	11.8	13.7	19.5	21.5	29.3	37.1	43.0				
0.0	0.0	0.0	0.0	3.9	5.8	9.7	11.8	9.7				
0.0	0.0	0.0	0.0	0.0	0.0	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				
2.0	2.0	3.1	4.1	9.2	11.3	13.3	10.2	7.2				
8.2	10.2	14.3	22.5	30.7	31.7	32.7	31.7	30.7				
28.6	32.7	38.9	46.0	51.1	51.7	52.2	51.7	51.1				
55.2	57.3	62.4	67.5	71.6	72.1	72.6	72.6	72.6				
78.8	81.8	85.9	90.0	93.1	94.1	95.1	94.6	94.1				
104.3	105.4	108.4	112.5	114.6	115.6	116.6	116.6	116.6				



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CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
128.9	132.0	135.0	137.1	138.1	139.1	139.1	139.1	0°	1365.3	1365.3	1365.3	1365.3
152.4	154.5	157.5	159.6	160.6	161.6	161.6	161.6	2.5°	1431.7	1451.3	1476.7	1500.2
175.9	178.0	181.1	183.1	183.6	184.1	184.6	185.2	5°	1349.7	1386.8	1441.5	1486.4
200.5	202.5	205.6	206.6	207.7	208.7	208.7	208.7	7.5°	1183.7	1234.5	1302.8	1365.3
226.1	228.1	231.2	232.2	232.7	233.2	233.2	233.2	10°	1009.9	1080.1	1152.5	1232.6
252.7	253.7	256.8	257.8	258.3	258.8	259.3	259.8	12.5°	867.3	947.4	1029.4	1129.0
276.2	278.2	280.3	282.3	283.4	284.4	283.9	283.4	15°	806.7	877.0	972.7	1082.1
299.7	300.7	304.8	305.9	306.9	307.9	307.9	307.9	17.5°	781.3	871.1	980.6	1095.8
324.3	325.3	328.4	329.4	330.9	332.5	332.5	332.5	20°	754.0	877.0	1023.6	1164.1
346.8	348.8	352.9	352.9	354.5	356.0	356.0	356.0	22.5°	738.4	896.5	1078.2	1275.5
371.3	372.4	375.4	375.4	376.4	377.5	377.5	377.5	25°	734.5	941.5	1172.0	1433.7
393.8	394.9	396.9	397.9	398.4	399.0	399.0	399.0	27.5°	738.4	992.3	1289.1	1603.7
417.4	416.3	419.4	419.4	420.4	421.5	421.5	421.5	30°	720.8	1045.0	1406.4	1752.1
437.8	437.8	440.9	441.9	442.9	444.0	443.4	442.9	32.5°	691.4	1084.1	1509.9	1871.3
457.3	458.3	462.4	463.4	463.9	464.4	463.4	462.4	35°	658.3	1101.6	1584.1	1982.6
474.6	475.7	479.8	480.8	481.3	481.8	480.8	479.8	37.5°	623.1	1103.6	1654.4	2099.8
494.1	493.1	496.1	497.2	497.7	498.2	497.7	497.2	40°	603.5	1095.8	1726.7	2244.4
513.5	512.5	514.5	514.5	515.1	515.6	515.1	514.5	42.5°	595.8	1082.1	1779.4	2353.7
528.9	527.8	530.9	530.9	530.9	530.9	529.9	528.9	45°	595.8	1068.5	1828.3	2435.7
541.1	541.1	544.2	544.2	544.2	544.2	543.2	542.2	47.5°	597.7	1074.3	1886.8	2568.5
551.4	550.3	553.4	553.4	553.9	554.4	553.4	552.4	50°	607.4	1140.7	1986.5	2715.1
561.6	560.6	564.7	564.7	565.2	565.7	564.2	562.6	52.5°	623.1	1246.2	2158.4	2888.9
571.8	570.8	573.9	572.9	572.9	572.9	571.8	570.8	55°	638.7	1353.7	2383.0	3179.9
579.0	578.0	580.0	579.0	578.5	578.0	577.5	576.9	57.5°	652.4	1433.7	2601.8	3469.0
582.1	580.0	582.1	581.0	581.5	582.1	581.0	580.0	60°	666.0	1496.2	2728.7	3597.9
583.1	582.1	585.1	585.1	585.6	586.2	584.6	583.1	62.5°	658.3	1472.7	2763.9	3533.5
588.2	587.2	591.3	590.2	590.2	590.2	588.7	587.2	65°	628.9	1349.7	2652.6	3310.8
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	548.9	1134.9	2310.7	2959.2
								70°	455.1	890.7	1884.9	2519.7
								72.5°	382.9	666.0	1449.3	1951.4
								75°	318.3	470.8	1019.6	1343.9
								77.5°	236.3	320.4	738.4	939.6
								80°	158.3	197.3	470.8	656.3
								82.5°	95.7	115.3	271.5	459.0
								85°	52.8	72.3	166.0	300.8
								87.5°	13.7	15.7	37.1	13.7
								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°	6.1	5.1	4.6	4.1
								100°	29.2	27.6	27.1	26.6
								102.5°	50.1	49.1	49.6	50.1
								105°	71.6	70.6	71.6	72.6
								107.5°	93.6	93.1	93.6	94.1
								110°	116.1	115.6	116.1	116.6



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CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	138.6	138.1	139.1	140.1	138.1
1517.8	1533.3	1552.8	1552.8	1576.3	1584.1	1599.8	115°	161.6	161.6	162.6	163.7	162.6
1541.2	1593.9	1642.8	1670.1	1716.9	1748.2	1779.4	117.5°	184.6	184.1	185.2	186.2	184.1
1445.4	1531.4	1611.5	1685.7	1763.8	1830.3	1879.1	120°	208.7	208.7	209.7	210.7	208.7
1318.5	1410.2	1507.9	1607.6	1701.3	1795.1	1875.2	122.5°	233.7	234.3	236.3	238.3	237.3
1228.7	1326.3	1441.5	1527.5	1625.2	1718.9	1797.0	125°	259.8	259.8	261.4	262.9	261.9
1187.6	1287.2	1394.7	1482.6	1574.3	1650.5	1705.3	127.5°	283.9	284.4	285.9	287.4	284.4
1209.1	1330.1	1425.9	1500.2	1568.5	1603.7	1611.5	130°	308.4	308.9	310.5	312.0	310.0
1302.8	1429.8	1500.2	1549.0	1560.7	1558.8	1529.4	132.5°	333.0	333.5	335.0	336.6	334.5
1449.3	1597.7	1646.6	1636.8	1588.0	1525.5	1476.7	135°	356.5	357.0	358.0	359.1	358.0
1646.6	1795.1	1822.4	1767.8	1658.3	1537.2	1455.1	137.5°	378.0	378.5	380.5	382.6	380.5
1853.7	2006.0	1996.3	1914.2	1757.9	1588.0	1457.2	140°	400.0	401.0	403.0	405.1	403.0
2000.2	2127.1	2088.0	1965.0	1791.2	1621.3	1482.6	142.5°	422.0	422.5	424.0	425.5	424.5
2152.5	2248.2	2178.0	2045.1	1865.4	1691.6	1549.0	145°	443.4	444.0	445.5	447.0	445.0
2316.6	2367.4	2254.1	2119.3	1955.3	1779.4	1625.2	147.5°	462.9	463.4	464.9	466.5	463.4
2474.8	2496.3	2332.2	2187.7	2027.5	1869.3	1728.7	150°	479.8	479.8	481.8	483.9	480.8
2644.7	2615.5	2414.3	2244.4	2086.1	1965.0	1849.8	152.5°	497.2	497.2	498.7	500.2	497.2
2791.2	2726.8	2490.5	2300.9	2158.4	2056.8	1976.8	155°	515.1	515.6	517.1	518.6	516.6
2900.7	2816.6	2562.7	2355.7	2228.7	2166.2	2127.1	157.5°	529.4	529.9	532.4	535.0	531.9
2994.4	2902.6	2619.4	2435.7	2326.4	2303.0	2316.6	160°	542.2	542.2	543.7	545.2	543.2
3111.6	2994.4	2695.6	2525.6	2459.2	2482.6	2560.8	162.5°	551.4	550.3	551.4	552.4	549.3
3293.3	3140.9	2822.5	2654.6	2623.3	2707.2	2855.7	165°	561.6	560.6	561.6	562.6	560.6
3586.3	3406.5	3047.2	2879.1	2842.1	2971.0	3183.8	167.5°	571.3	571.8	573.9	575.9	573.9
3840.2	3703.4	3344.0	3140.9	3125.2	3263.9	3496.3	170°	578.0	579.0	581.5	584.1	582.1
3955.4	3941.7	3650.7	3463.2	3439.8	3568.7	3789.4	172.5°	580.5	581.0	582.6	584.1	581.0
3945.6	4059.0	3900.7	3767.9	3687.8	3795.2	4010.1	175°	582.1	581.0	582.6	584.1	581.0
3803.0	3988.6	4002.3	3971.0	3826.4	3834.3	3986.6	177.5°	587.2	587.2	588.7	590.2	587.2
3523.8	3744.4	3975.0	3965.2	3781.5	3619.4	3650.7	180°	589.2	589.2	589.2	589.2	589.2
3127.3	3316.7	3683.9	3758.1	3496.3	3193.7	3051.1						
2506.0	2726.8	3271.8	3375.3	3017.8	2592.1	2371.3						
1728.7	2019.7	2855.7	2865.5	2449.5	2039.3	1800.9						
1187.6	1437.7	2308.8	2334.2	1943.5	1547.0	1341.9						
798.9	963.0	1693.5	1586.1	1283.3	1072.4	1019.6						
503.9	599.7	1064.6	994.2	845.8	773.5	793.0						
234.4	328.2	582.1	568.5	533.3	466.9	406.3						
5.8	17.6	113.2	74.3	74.3	43.0	15.7						
0.0	0.0	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						
4.1	4.1	4.6	5.1	6.1	7.2	10.2						
25.6	26.6	27.1	27.6	29.2	30.7	31.7						
49.1	50.1	49.6	49.1	50.1	51.1	51.7						
70.6	72.6	71.6	70.6	71.6	72.6	72.6						
93.1	94.1	93.6	93.1	93.6	94.1	94.6						
115.6	116.6	116.1	115.6	116.1	116.6	116.6						



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CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
140.1	139.1	138.1	138.6	139.1	139.1	0°	1365.3	1365.3	1365.3	1365.3	1365.3	1365.3
163.7	162.6	161.6	161.6	161.6	161.6	2.5°	1586.1	1591.9	1590.0	1576.3	1541.2	1527.5
186.2	185.2	184.1	184.6	185.2	184.6	5°	1777.5	1787.3	1775.5	1742.3	1652.5	1609.5
210.7	209.7	208.7	208.7	208.7	208.7	7.5°	1912.3	1920.1	1900.5	1824.3	1664.2	1591.9
238.3	236.3	234.3	233.7	233.2	233.2	10°	1937.7	1955.3	1933.8	1824.3	1638.8	1549.0
262.9	261.4	259.8	259.8	259.8	259.3	12.5°	1865.4	1902.5	1886.8	1806.8	1627.1	1531.4
287.4	285.9	284.4	283.9	283.4	283.9	15°	1754.1	1757.9	1767.8	1765.8	1605.6	1511.8
312.0	310.5	308.9	308.4	307.9	307.9	17.5°	1631.0	1627.1	1638.8	1675.9	1599.8	1525.5
336.6	335.0	333.5	333.0	332.5	332.5	20°	1519.7	1513.8	1525.5	1562.7	1576.3	1558.8
359.1	358.0	357.0	356.5	356.0	356.0	22.5°	1449.3	1429.8	1427.8	1482.6	1588.0	1634.9
382.6	380.5	378.5	378.0	377.5	377.5	25°	1410.2	1388.8	1398.6	1461.1	1636.8	1724.8
405.1	403.0	401.0	400.0	399.0	399.0	27.5°	1398.6	1375.2	1388.8	1459.1	1687.7	1834.2
425.5	424.0	422.5	422.0	421.5	421.5	30°	1406.4	1382.9	1388.8	1472.7	1713.0	1859.5
447.0	445.5	444.0	443.4	442.9	443.4	32.5°	1451.3	1410.2	1406.4	1513.8	1759.9	1916.2
466.5	464.9	463.4	462.9	462.4	463.4	35°	1511.8	1453.2	1445.4	1580.3	1820.4	1988.4
483.9	481.8	479.8	479.8	479.8	480.8	37.5°	1613.4	1541.2	1529.4	1691.6	1902.5	2049.0
500.2	498.7	497.2	497.2	497.2	497.7	40°	1750.2	1677.8	1677.8	1834.2	2013.9	2133.0
518.6	517.1	515.6	515.1	514.5	515.1	42.5°	1904.4	1857.6	1865.4	2006.0	2140.8	2238.4
535.0	532.4	529.9	529.4	528.9	529.9	45°	2109.5	2084.2	2123.2	2222.9	2269.7	2336.1
545.2	543.7	542.2	542.2	542.2	543.2	47.5°	2349.8	2371.3	2426.0	2457.2	2400.6	2435.7
552.4	551.4	550.3	551.4	552.4	553.4	50°	2650.6	2707.2	2760.0	2752.1	2562.7	2551.0
562.6	561.6	560.6	561.6	562.6	564.2	52.5°	2996.3	3070.6	3107.7	3064.7	2744.4	2676.0
575.9	573.9	571.8	571.3	570.8	571.8	55°	3347.9	3437.8	3426.1	3377.3	2941.7	2849.8
584.1	581.5	579.0	578.0	576.9	577.5	57.5°	3666.4	3736.6	3767.9	3662.4	3181.9	3060.8
584.1	582.6	581.0	580.5	580.0	581.0	60°	3918.3	3994.5	3994.5	3891.0	3443.7	3303.0
584.1	582.6	581.0	582.1	583.1	584.6	62.5°	4101.9	4162.5	4141.0	4041.4	3668.3	3560.9
590.2	588.7	587.2	587.2	587.2	588.7	65°	4088.2	4094.1	4070.6	4033.5	3803.0	3791.4
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	3703.4	3705.4	3752.3	3736.6	3701.4	3846.0
						70°	3035.4	3066.7	3146.7	3123.3	3303.0	3599.9
						72.5°	2310.7	2330.3	2426.0	2404.4	2648.6	2974.8
						75°	1681.7	1679.8	1720.8	1689.6	1998.2	2361.5
						77.5°	1295.1	1259.9	1252.1	1256.0	1416.2	1716.9
						80°	1045.0	1045.0	1033.3	990.3	867.3	1004.0
						82.5°	834.0	800.9	742.3	658.3	556.7	593.8
						85°	416.0	404.4	353.5	293.0	244.2	324.3
						87.5°	1.9	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	11.3	9.2	4.1	3.1	2.6
						100°	32.7	31.7	30.7	22.5	14.3	12.3
						102.5°	52.2	51.7	51.1	46.0	38.9	35.8
						105°	72.6	72.1	71.6	67.5	62.4	59.8
						107.5°	95.1	94.1	93.1	90.0	85.9	83.9
						110°	116.6	115.6	114.6	112.5	108.4	106.9

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CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
1365.3	1365.3	1365.3	1365.3	1365.3	112.5°	139.1	138.1	137.1	135.0	132.0	130.4	129.7
1521.6	1506.0	1488.4	1488.4	1472.7	115°	161.6	160.6	159.6	157.5	154.5	153.4	152.9
1584.1	1552.8	1527.5	1504.0	1480.6	117.5°	184.1	183.6	183.1	181.1	178.0	177.0	176.5
1552.8	1515.7	1484.5	1443.5	1406.4	120°	208.7	207.7	206.6	205.6	202.5	201.5	201.0
1506.0	1465.0	1420.1	1377.1	1324.3	122.5°	233.2	232.7	232.2	231.2	228.1	227.1	226.6
1480.6	1431.7	1377.1	1332.2	1271.6	125°	258.8	258.3	257.8	256.8	253.7	253.2	252.9
1461.1	1410.2	1361.4	1318.5	1265.7	127.5°	284.4	283.4	282.3	280.3	278.2	277.2	276.7
1492.3	1443.5	1408.3	1359.5	1318.5	130°	307.9	306.9	305.9	304.8	300.7	300.2	299.9
1545.1	1515.7	1488.4	1457.2	1423.9	132.5°	332.5	330.9	329.4	328.4	325.3	324.8	324.5
1644.7	1640.7	1638.8	1615.3	1591.9	135°	356.0	354.5	352.9	352.9	348.8	347.8	347.3
1769.7	1785.3	1806.8	1806.8	1806.8	137.5°	377.5	376.4	375.4	375.4	372.4	371.8	371.5
1898.6	1937.7	1978.7	1996.3	2008.0	140°	399.0	398.4	397.9	396.9	394.9	394.3	394.0
1935.7	1992.4	2056.8	2099.8	2129.1	142.5°	421.5	420.4	419.4	419.4	416.3	416.9	417.2
1996.3	2060.7	2133.0	2181.9	2234.5	145°	444.0	442.9	441.9	440.9	437.8	437.8	437.8
2068.5	2125.2	2199.4	2265.8	2341.9	147.5°	464.4	463.9	463.4	462.4	458.3	457.8	457.5
2129.1	2203.3	2283.4	2369.4	2467.1	150°	481.8	481.3	480.8	479.8	475.7	475.2	474.9
2220.9	2299.0	2387.0	2502.1	2621.3	152.5°	498.2	497.7	497.2	496.1	493.1	493.6	493.9
2322.5	2406.5	2498.3	2613.5	2752.1	155°	515.6	515.1	514.5	514.5	512.5	513.0	513.3
2410.4	2484.5	2584.2	2703.4	2861.6	157.5°	530.9	530.9	530.9	530.9	527.8	528.4	528.7
2494.4	2562.7	2679.9	2801.0	2957.2	160°	544.2	544.2	544.2	544.2	541.1	541.1	541.1
2605.7	2658.4	2775.6	2914.3	3080.3	162.5°	554.4	553.9	553.4	553.4	550.3	550.9	551.2
2720.9	2793.2	2922.2	3080.3	3265.9	165°	565.7	565.2	564.7	564.7	560.6	561.1	561.4
2877.2	2963.2	3121.3	3301.1	3535.4	167.5°	572.9	572.9	572.9	573.9	570.8	571.3	571.6
3092.1	3181.9	3349.9	3551.1	3791.4	170°	578.0	578.5	579.0	580.0	578.0	578.5	578.8
3355.8	3443.7	3588.2	3787.4	4012.0	172.5°	582.1	581.5	581.0	582.1	580.0	581.0	581.5
3601.8	3722.9	3853.9	4002.3	4180.1	175°	586.2	585.6	585.1	585.1	582.1	582.6	582.9
3869.4	3963.2	4072.6	4129.2	4228.9	177.5°	590.2	590.2	590.2	591.3	587.2	587.7	588.0
3947.6	4025.7	4121.5	4121.5	4109.7	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
3717.1	3836.3	3920.3	3920.3	3820.6								
3232.7	3431.9	3513.9	3564.8	3437.8								
2627.1	2875.2	3010.0	3053.0	2822.5								
1927.9	2086.1	2103.7	2109.5	1799.0								
1111.4	1236.4	1281.3	1345.8	1078.2								
644.6	691.4	767.6	795.0	656.3								
361.4	365.3	365.3	337.9	275.4								
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								
2.3	2.0	2.0	2.0	2.0								
11.3	10.2	9.7	9.2	8.7								
34.3	32.7	31.7	30.7	29.7								
58.5	57.3	56.8	56.3	55.8								
82.9	81.8	81.0	80.3	79.6								
106.2	105.4	105.2	104.9	104.5								

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CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
128.9	128.4	127.9	127.4	0°	1365.3	1365.3	1365.3
152.4	151.9	151.4	150.9	2.5°	1468.9	1445.4	1449.3
175.9	175.4	174.9	174.4	5°	1447.4	1414.2	1402.5
200.5	200.3	200.0	199.7	7.5°	1373.2	1316.5	1298.9
226.1	225.9	225.6	225.3	10°	1283.3	1211.1	1197.4
252.7	252.5	252.2	251.9	12.5°	1232.6	1150.5	1132.9
276.2	276.0	275.7	275.4	15°	1216.9	1138.7	1119.2
299.7	299.5	299.2	298.9	17.5°	1263.8	1179.8	1156.3
324.3	323.5	322.7	322.0	20°	1371.2	1271.6	1244.2
346.8	346.3	345.8	345.2	22.5°	1531.4	1418.1	1384.9
371.3	370.5	369.8	369.1	25°	1748.2	1619.2	1586.1
393.8	393.3	392.8	392.3	27.5°	1970.8	1816.6	1773.6
417.4	416.9	416.3	415.8	30°	2099.8	1957.2	1914.2
437.8	437.3	436.8	436.3	32.5°	2230.6	2093.9	2043.1
457.3	456.4	455.7	455.0	35°	2369.4	2230.6	2179.9
474.6	474.1	473.6	473.1	37.5°	2531.5	2414.3	2369.4
494.1	493.3	492.6	491.8	40°	2724.8	2617.4	2553.0
513.5	513.0	512.5	512.0	42.5°	2885.0	2785.4	2724.8
528.9	528.4	527.8	527.3	45°	3002.2	2918.2	2855.7
541.1	540.6	540.1	539.6	47.5°	3109.7	3045.2	2982.7
551.4	550.6	549.8	549.1	50°	3244.4	3189.8	3146.7
561.6	561.1	560.6	560.1	52.5°	3426.1	3406.5	3369.4
571.8	571.0	570.3	569.6	55°	3693.7	3736.6	3683.9
579.0	578.2	577.5	576.7	57.5°	3947.6	3978.9	3955.4
582.1	581.2	580.5	579.8	60°	4146.8	4103.9	4074.5
583.1	582.9	582.6	582.3	62.5°	4248.4	4143.0	4094.1
588.2	587.7	587.2	586.7	65°	4254.2	4092.1	4017.9
589.2	589.2	589.2	589.2	67.5°	4121.5	3931.9	3846.0
				70°	3763.9	3545.2	3431.9
				72.5°	3162.4	2826.4	2750.2
				75°	2318.5	1906.4	1861.5
				77.5°	1404.4	1095.8	1037.2
				80°	791.0	628.9	609.5
				82.5°	449.3	353.5	373.1
				85°	183.6	91.8	101.6
				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)