

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: P228663

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228663
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-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6249.2 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

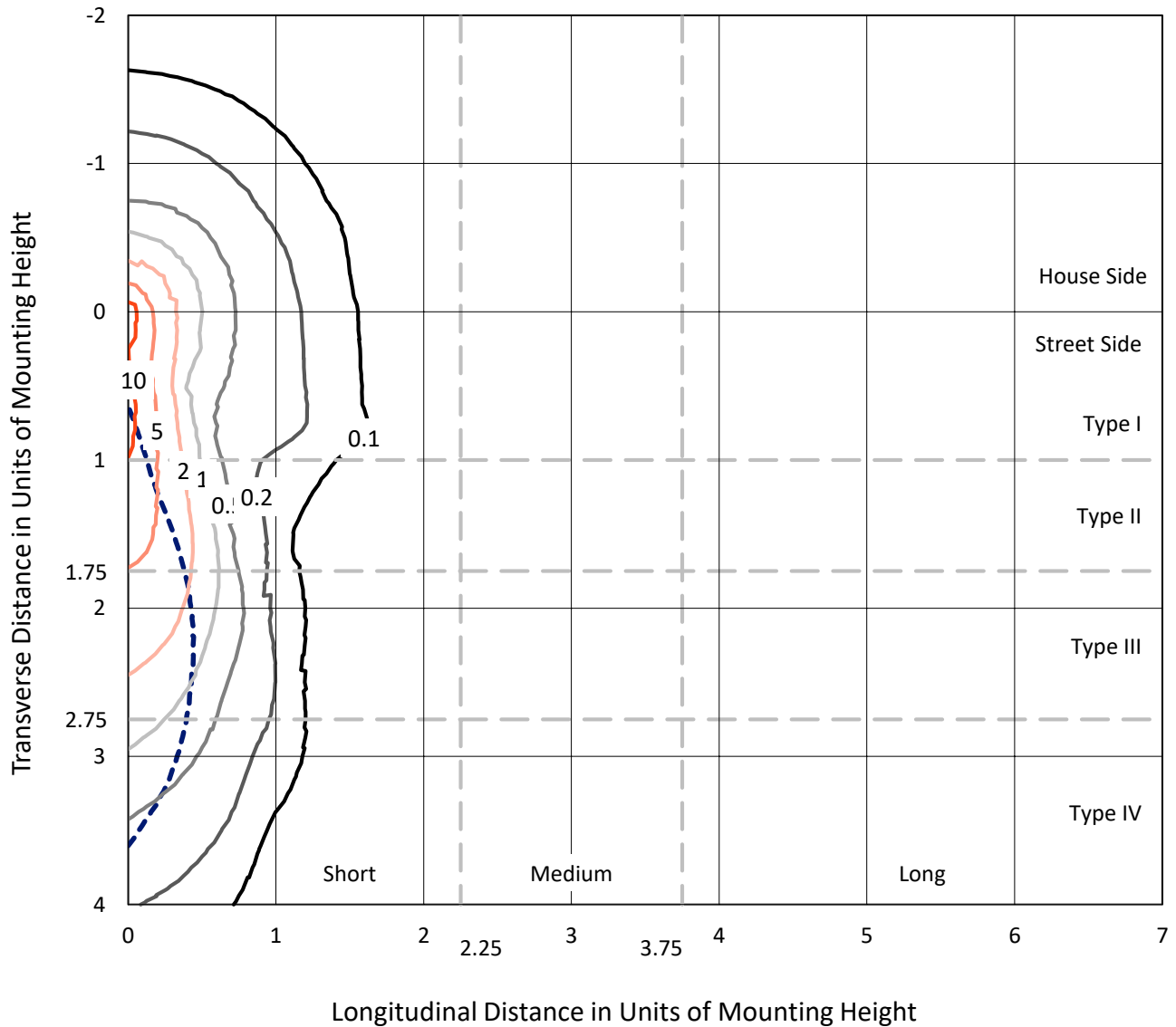
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

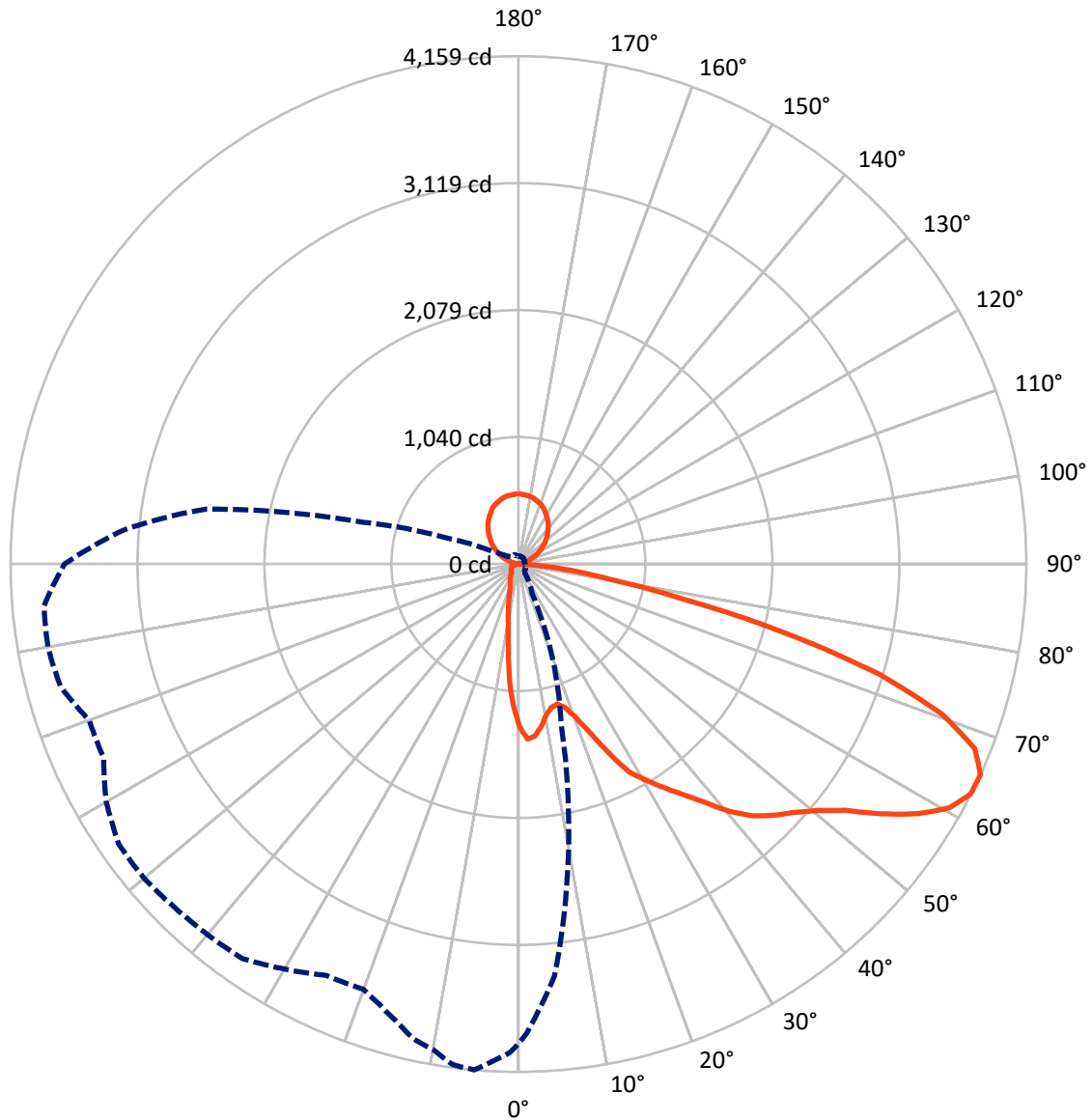
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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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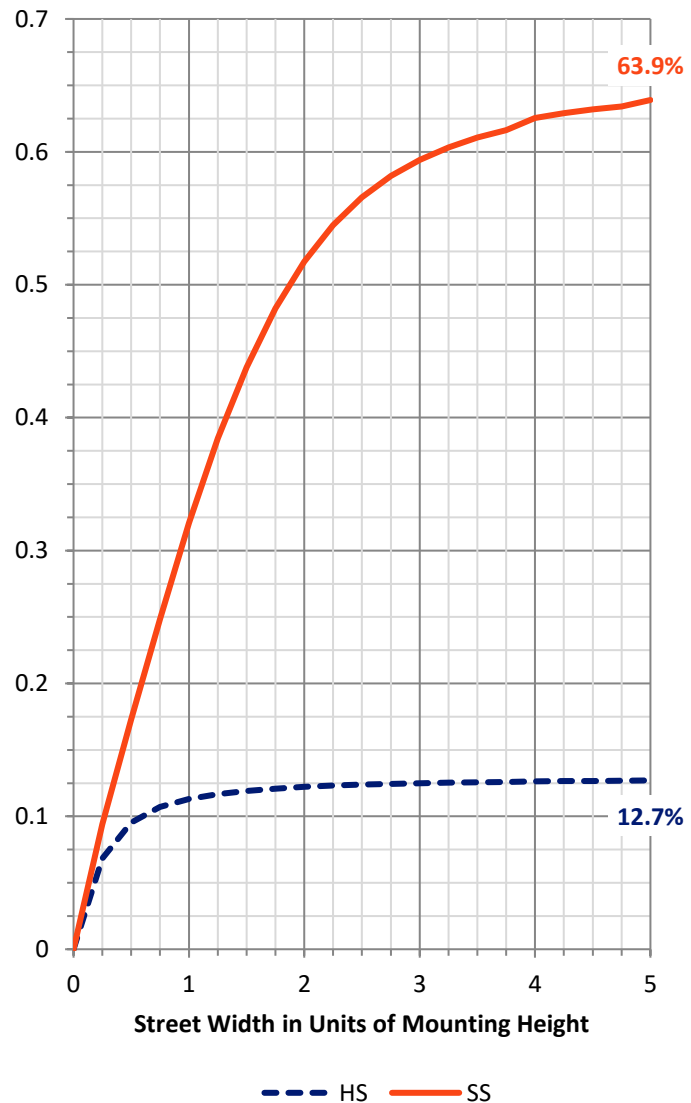
FLUX DISTRIBUTION:

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

Coefficient of Utilization

ZONAL LUMENS:

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



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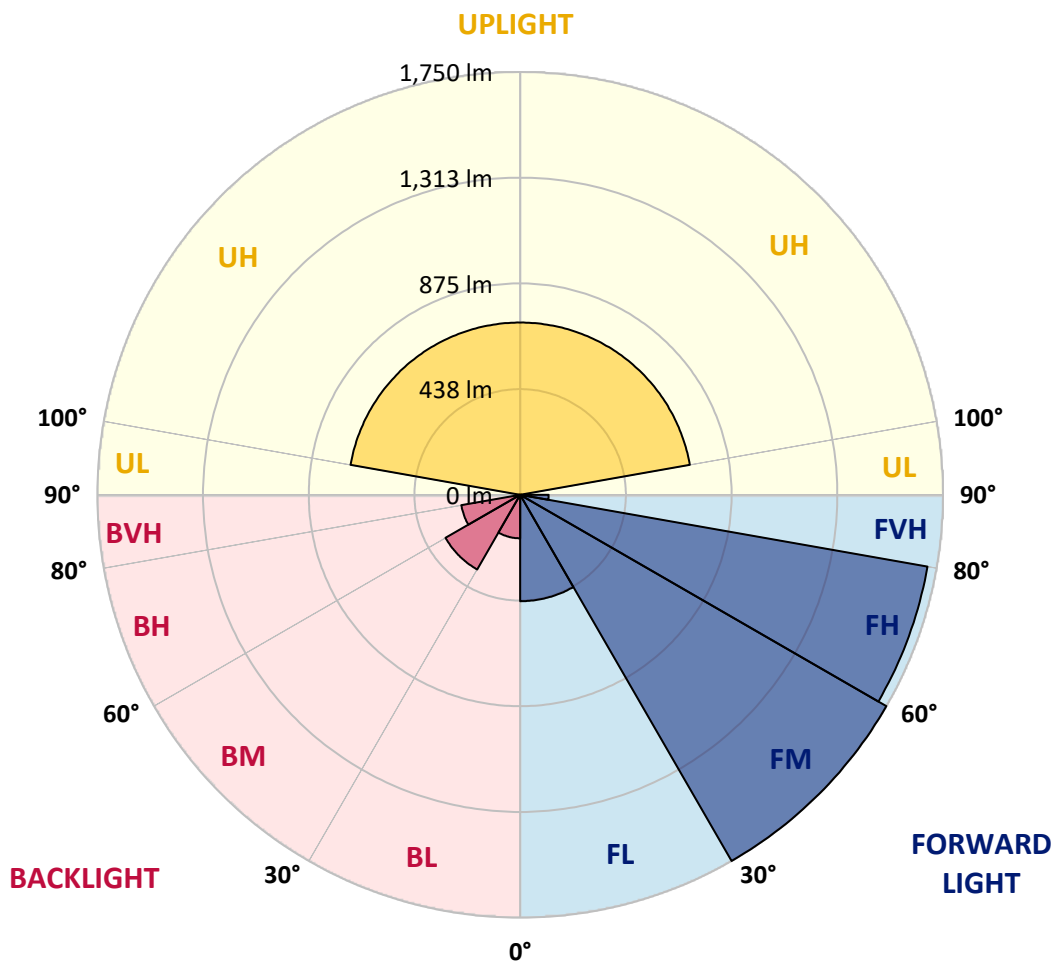
CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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

BUG Rating: B1-U5-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1416.8	1405.4	1382.5	1336.6	1288.9	1243.1	1235.4	1218.2	1220.1	1210.6	1206.8
5°	1371.0	1355.7	1308.0	1212.5	1130.4	1046.4	1040.7	1006.3	1010.1	989.1	977.6
7.5°	1269.8	1248.8	1195.3	1063.6	949.0	838.3	826.8	786.7	781.0	760.0	742.8
10°	1170.5	1149.5	1082.7	931.8	800.1	718.0	704.6	685.5	670.2	660.7	643.5
12.5°	1107.5	1096.0	1015.8	842.1	739.0	672.1	654.9	635.9	620.6	603.4	586.2
15°	1094.1	1071.2	989.1	813.4	693.1	611.0	590.0	569.0	551.8	534.6	509.8
17.5°	1130.4	1107.5	1015.8	800.1	641.6	542.3	515.6	486.9	469.7	448.7	422.0
20°	1216.3	1180.0	1067.4	781.0	586.2	462.1	429.6	395.3	376.2	339.9	320.8
22.5°	1353.8	1308.0	1155.2	781.0	534.6	378.1	341.8	311.2	290.2	257.8	236.8
25°	1550.5	1510.4	1298.4	802.0	488.8	307.4	271.1	240.6	219.6	196.7	183.3
27.5°	1733.8	1670.8	1451.2	832.5	452.5	257.8	221.5	196.7	181.4	169.9	162.3
30°	1871.3	1819.7	1584.9	853.5	399.1	215.8	192.9	177.6	169.9	164.2	160.4
32.5°	1997.3	1938.1	1680.3	866.9	366.6	183.3	162.3	150.8	143.2	135.6	133.7
35°	2131.0	2073.7	1793.0	865.0	345.6	168.0	147.0	133.7	126.0	124.1	120.3
37.5°	2316.2	2237.9	1922.8	865.0	338.0	162.3	137.5	124.1	118.4	114.6	112.7
40°	2495.7	2407.8	2066.0	870.7	330.3	158.5	137.5	124.1	114.6	110.7	106.9
42.5°	2663.7	2566.3	2195.9	880.3	326.5	147.0	129.8	122.2	118.4	110.7	105.0
45°	2791.6	2715.3	2297.1	899.4	326.5	139.4	122.2	116.5	114.6	114.6	112.7
47.5°	2915.8	2829.8	2413.6	935.6	332.2	133.7	116.5	108.8	108.8	108.8	110.7
50°	3076.1	2974.9	2574.0	1010.1	332.2	131.8	110.7	103.1	101.2	105.0	105.0
52.5°	3293.8	3221.3	2808.8	1117.0	328.4	129.8	108.8	97.4	95.5	97.4	101.2
55°	3601.2	3519.1	3093.3	1248.8	324.6	126.0	105.0	95.5	91.7	89.7	91.7
57.5°	3866.7	3796.0	3354.9	1353.8	315.1	116.5	101.2	93.6	87.8	85.9	84.0
60°	3983.1	3923.9	3523.0	1424.5	297.9	106.9	95.5	89.7	84.0	82.1	80.2
62.5°	4002.2	3927.8	3524.9	1439.7	278.8	97.4	89.7	84.0	80.2	78.3	76.4
65°	3927.8	3843.7	3385.5	1346.2	263.5	97.4	85.9	80.2	74.5	72.6	70.7
67.5°	3759.7	3629.9	3032.2	1141.9	250.1	99.3	84.0	74.5	70.7	68.7	66.8
70°	3354.9	3209.8	2560.6	907.0	244.4	101.2	84.0	70.7	64.9	63.0	63.0
72.5°	2688.5	2522.4	1997.3	683.6	234.9	103.1	82.1	66.8	61.1	57.3	57.3
75°	1819.7	1674.6	1353.8	462.1	194.8	89.7	74.5	61.1	53.5	49.6	47.7
77.5°	1013.9	966.2	861.2	244.4	124.1	66.8	57.3	49.6	43.9	42.0	40.1
80°	595.8	570.9	507.9	135.6	76.4	38.2	34.4	32.5	28.6	28.6	28.6
82.5°	364.7	339.9	315.1	61.1	36.3	19.1	19.1	15.3	15.3	13.4	13.4
85°	99.3	91.7	127.9	13.4	3.8	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	3.0	4.0	5.2	6.5	7.8	9.0	10.0
100°	8.0	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5
102.5°	28.0	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2
105°	54.0	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2
107.5°	78.0	77.8	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5
110°	101.0	101.2	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°
112.5°	124.0	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5
115°	146.0	146.2	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5
117.5°	169.0	169.2	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2
120°	193.0	193.4	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5
122.5°	219.0	219.2	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2
125°	244.0	244.4	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2
127.5°	267.0	267.4	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5
130°	290.0	290.4	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5
132.5°	313.0	313.2	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8
135°	336.0	336.2	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8
137.5°	359.0	359.2	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5
140°	382.0	382.2	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2
142.5°	404.0	404.4	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5
145°	425.0	425.2	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5
147.5°	444.0	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2
150°	461.0	461.2	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2
152.5°	479.0	479.2	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2
155°	499.0	499.2	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2
157.5°	513.0	513.4	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	525.4	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	535.2	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2
165°	546.0	546.2	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2
167.5°	555.0	555.2	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0
170°	562.0	562.2	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8
172.5°	565.0	565.2	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2
175°	567.0	567.4	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2
177.5°	572.0	572.2	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1191.5	1187.7	1187.7	1159.0	1159.0	1143.8	1139.9	1139.9	1145.7	1141.9	1118.9
5°	958.6	947.1	939.5	905.1	895.5	878.4	870.7	868.8	874.5	865.0	834.4
7.5°	721.8	712.2	700.8	674.0	662.6	660.7	637.8	632.0	628.2	620.6	601.5
10°	630.1	616.8	607.2	588.1	574.7	565.2	546.1	536.6	528.9	517.5	511.7
12.5°	567.1	553.7	540.4	515.6	498.4	486.9	475.5	456.4	448.7	435.4	427.7
15°	488.8	473.5	458.3	431.5	408.6	397.2	374.3	362.8	355.2	339.9	332.2
17.5°	393.3	372.3	355.2	330.3	318.9	299.8	286.4	267.3	252.0	246.3	240.6
20°	296.0	276.9	261.6	240.6	229.1	213.9	206.2	192.9	185.2	181.4	177.6
22.5°	217.7	202.4	192.9	181.4	175.7	169.9	166.1	162.3	158.5	156.6	156.6
25°	171.9	166.1	162.3	158.5	156.6	154.7	150.8	148.9	147.0	145.1	145.1
27.5°	156.6	152.8	150.8	148.9	147.0	143.2	143.2	139.4	137.5	137.5	135.6
30°	158.5	158.5	158.5	154.7	152.8	148.9	147.0	141.3	137.5	133.7	131.8
32.5°	129.8	129.8	127.9	124.1	122.2	120.3	120.3	116.5	114.6	114.6	118.4
35°	118.4	116.5	114.6	110.7	108.8	105.0	103.1	101.2	99.3	97.4	97.4
37.5°	112.7	110.7	108.8	105.0	103.1	101.2	99.3	95.5	93.6	93.6	91.7
40°	106.9	106.9	106.9	103.1	101.2	97.4	95.5	93.6	91.7	89.7	89.7
42.5°	103.1	103.1	103.1	101.2	99.3	97.4	93.6	91.7	89.7	87.8	85.9
45°	105.0	103.1	103.1	101.2	99.3	95.5	93.6	89.7	87.8	85.9	84.0
47.5°	112.7	110.7	106.9	103.1	99.3	95.5	91.7	87.8	85.9	84.0	82.1
50°	106.9	114.6	116.5	110.7	101.2	95.5	91.7	87.8	84.0	82.1	80.2
52.5°	105.0	106.9	114.6	114.6	105.0	97.4	91.7	87.8	84.0	80.2	78.3
55°	95.5	101.2	103.1	105.0	103.1	95.5	89.7	84.0	82.1	78.3	74.5
57.5°	84.0	87.8	89.7	93.6	95.5	93.6	85.9	80.2	78.3	74.5	70.7
60°	78.3	78.3	78.3	80.2	89.7	97.4	89.7	78.3	72.6	70.7	66.8
62.5°	72.6	72.6	70.7	72.6	74.5	84.0	82.1	74.5	70.7	68.7	64.9
65°	70.7	68.7	66.8	66.8	66.8	66.8	66.8	66.8	64.9	64.9	63.0
67.5°	64.9	63.0	63.0	61.1	61.1	61.1	61.1	61.1	59.2	59.2	57.3
70°	61.1	59.2	57.3	57.3	57.3	55.4	55.4	55.4	53.5	53.5	53.5
72.5°	55.4	53.5	53.5	53.5	51.6	51.6	51.6	49.6	49.6	47.7	47.7
75°	47.7	47.7	45.8	45.8	45.8	43.9	43.9	43.9	43.9	42.0	42.0
77.5°	40.1	38.2	40.1	38.2	38.2	38.2	38.2	38.2	36.3	36.3	34.4
80°	26.7	26.7	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	26.7
82.5°	15.3	13.4	15.3	15.3	15.3	17.2	17.2	19.1	17.2	17.2	15.3
85°	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	3.8	3.8	3.8
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°	11.0	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.0	31.5	32.0	31.5	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.5	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.5	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.0	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.0	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.0	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.0	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.5	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.0	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.5	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.5	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.0	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.0	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	323.5	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	346.5	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.0	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.5	389.8	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.0	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.0	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.5	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.5	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.5	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.5	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.5	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.5	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.5	565.2	565.0	564.8	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.5	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.5	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228663

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
2.5°	1130.4	1128.5	1109.4	1113.2	1107.5	1096.0	1097.9	1099.9	1103.7	1096.0	1092.2
5°	849.7	851.6	826.8	834.4	828.7	826.8	832.5	842.1	847.8	845.9	840.2
7.5°	603.4	605.3	584.3	582.4	576.7	574.7	582.4	591.9	597.7	595.8	597.7
10°	498.4	492.6	473.5	460.2	446.8	435.4	433.4	433.4	433.4	429.6	425.8
12.5°	412.4	406.7	383.8	372.3	360.9	345.6	343.7	341.8	336.1	330.3	322.7
15°	320.8	315.1	296.0	288.3	278.8	273.1	271.1	271.1	267.3	263.5	259.7
17.5°	233.0	229.1	217.7	210.0	208.1	210.0	212.0	215.8	217.7	219.6	219.6
20°	175.7	173.8	169.9	169.9	171.9	177.6	179.5	185.2	187.1	190.9	194.8
22.5°	154.7	154.7	152.8	152.8	156.6	162.3	166.1	168.0	169.9	171.9	171.9
25°	143.2	143.2	141.3	145.1	150.8	150.8	150.8	150.8	147.0	145.1	145.1
27.5°	135.6	135.6	135.6	137.5	135.6	133.7	133.7	133.7	131.8	131.8	129.8
30°	129.8	129.8	129.8	127.9	127.9	126.0	126.0	124.1	124.1	122.2	122.2
32.5°	120.3	116.5	120.3	116.5	116.5	114.6	116.5	116.5	112.7	112.7	112.7
35°	95.5	93.6	93.6	93.6	91.7	93.6	97.4	97.4	97.4	97.4	97.4
37.5°	89.7	89.7	87.8	85.9	85.9	84.0	85.9	84.0	84.0	84.0	85.9
40°	87.8	85.9	84.0	84.0	82.1	80.2	80.2	80.2	80.2	80.2	80.2
42.5°	84.0	84.0	80.2	78.3	78.3	76.4	76.4	76.4	76.4	76.4	76.4
45°	82.1	80.2	78.3	76.4	74.5	74.5	74.5	74.5	74.5	74.5	72.6
47.5°	80.2	78.3	76.4	74.5	72.6	70.7	70.7	70.7	70.7	70.7	70.7
50°	78.3	76.4	72.6	72.6	70.7	68.7	68.7	68.7	68.7	68.7	68.7
52.5°	74.5	74.5	70.7	68.7	66.8	66.8	66.8	66.8	66.8	66.8	66.8
55°	70.7	70.7	66.8	64.9	63.0	63.0	63.0	63.0	64.9	64.9	64.9
57.5°	68.7	66.8	63.0	63.0	59.2	59.2	59.2	61.1	61.1	63.0	63.0
60°	64.9	63.0	61.1	59.2	59.2	57.3	57.3	57.3	57.3	59.2	59.2
62.5°	63.0	61.1	57.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
65°	59.2	59.2	55.4	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
67.5°	55.4	55.4	51.6	49.6	49.6	49.6	51.6	49.6	49.6	49.6	49.6
70°	51.6	49.6	47.7	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
72.5°	45.8	45.8	43.9	42.0	42.0	42.0	42.0	42.0	42.0	42.0	43.9
75°	40.1	38.2	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3	36.3
77.5°	34.4	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	32.5
80°	24.8	22.9	22.9	22.9	22.9	24.8	24.8	24.8	24.8	24.8	24.8
82.5°	15.3	13.4	13.4	13.4	15.3	17.2	17.2	17.2	17.2	19.1	19.1
85°	3.8	3.8	3.8	3.8	7.6	9.5	9.5	9.5	11.5	9.5	9.5
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°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



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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°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

NUMBER: P228663
 NUMBER: ISC-AF-1000-LED-E1-SLR-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	136.0
1088.4	1111.3	1111.3	1096.0	1103.7	1096.0	1094.1	1107.5	1115.1	1139.9	1155.2	115°	158.0
842.1	870.7	872.6	865.0	874.5	868.8	874.5	891.7	905.1	922.3	937.5	117.5°	181.0
601.5	628.2	633.9	628.2	645.4	643.5	647.3	666.4	677.9	687.4	689.3	120°	204.0
423.9	427.7	443.0	439.2	450.6	448.7	454.5	469.7	485.0	490.7	494.6	122.5°	228.0
318.9	315.1	320.8	313.2	318.9	318.9	320.8	330.3	349.4	357.1	376.2	125°	254.0
257.8	254.0	254.0	250.1	250.1	248.2	250.1	257.8	271.1	282.6	297.9	127.5°	277.0
219.6	219.6	219.6	217.7	215.8	215.8	217.7	221.5	229.1	236.8	244.4	130°	301.0
196.7	200.5	202.4	204.3	206.2	208.1	210.0	215.8	213.9	206.2	196.7	132.5°	325.0
171.9	171.9	173.8	173.8	171.9	171.9	171.9	171.9	171.9	177.6	183.3	135°	348.0
143.2	143.2	143.2	145.1	143.2	143.2	145.1	145.1	147.0	150.8	156.6	137.5°	369.0
129.8	129.8	129.8	129.8	129.8	129.8	129.8	131.8	133.7	139.4	143.2	140°	390.0
120.3	120.3	118.4	118.4	118.4	116.5	118.4	118.4	120.3	127.9	133.7	142.5°	412.0
110.7	108.8	108.8	108.8	106.9	106.9	106.9	110.7	112.7	116.5	122.2	145°	433.0
97.4	97.4	97.4	99.3	99.3	99.3	99.3	103.1	103.1	105.0	105.0	147.5°	452.0
87.8	87.8	89.7	91.7	91.7	93.6	93.6	95.5	97.4	95.5	93.6	150°	469.0
80.2	82.1	82.1	85.9	85.9	85.9	87.8	89.7	91.7	87.8	87.8	152.5°	486.0
76.4	76.4	76.4	78.3	78.3	78.3	80.2	82.1	84.0	84.0	84.0	155°	503.0
72.6	72.6	72.6	74.5	72.6	72.6	72.6	74.5	78.3	78.3	80.2	157.5°	517.0
70.7	70.7	70.7	68.7	68.7	68.7	68.7	70.7	72.6	76.4	78.3	160°	530.0
68.7	66.8	66.8	66.8	66.8	66.8	66.8	68.7	70.7	72.6	76.4	162.5°	540.0
64.9	64.9	64.9	64.9	64.9	64.9	64.9	66.8	68.7	70.7	72.6	165°	550.0
64.9	64.9	63.0	63.0	64.9	64.9	64.9	66.8	68.7	70.7	70.7	167.5°	558.0
63.0	61.1	61.1	63.0	63.0	63.0	63.0	64.9	66.8	68.7	68.7	170°	564.0
59.2	59.2	59.2	59.2	61.1	61.1	63.0	64.9	64.9	66.8	66.8	172.5°	567.0
55.4	57.3	57.3	57.3	59.2	59.2	61.1	63.0	64.9	66.8	64.9	175°	570.0
53.5	55.4	55.4	55.4	57.3	57.3	57.3	61.1	63.0	64.9	66.8	177.5°	574.0
51.6	51.6	51.6	53.5	53.5	55.4	55.4	59.2	59.2	61.1	63.0	180°	576.0
47.7	47.7	47.7	49.6	49.6	51.6	53.5	55.4	55.4	57.3	59.2		
43.9	43.9	43.9	45.8	45.8	47.7	49.6	53.5	51.6	53.5	53.5		
38.2	38.2	40.1	40.1	42.0	43.9	45.8	45.8	45.8	45.8	45.8		
32.5	32.5	34.4	34.4	36.3	38.2	38.2	38.2	40.1	38.2	38.2		
26.7	26.7	28.6	28.6	28.6	28.6	30.6	28.6	30.6	28.6	30.6		
19.1	19.1	21.0	19.1	21.0	19.1	19.1	17.2	21.0	19.1	19.1		
7.6	9.5	9.5	9.5	9.5	7.6	7.6	5.7	7.6	7.6	5.7		
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	0.0	0.0	0.0	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

'228663
 ISC-AF-1000-LED-E1-SLR-7050-ULG

REPORT NUMBER: P228663
 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°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	1334.7	1334.7
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1161.0	1159.0
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	939.5	935.6
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	672.1	664.5
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	496.5	502.2
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	397.2	420.1
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	318.9	332.2
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	246.3	252.0
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	196.7	196.7
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	171.9	169.9
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	162.3	160.4
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	147.0	148.9
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	137.5	139.4
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	126.0	127.9
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	103.1	103.1
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	95.5	95.5
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	89.7	91.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	85.9	85.9
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	82.1	84.0
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	80.2	80.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	76.4	78.3
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	74.5	76.4
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	72.6	72.6
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	68.7	70.7
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	68.7	68.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	66.8	66.8
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	64.9	64.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	61.1	61.1
										70°	57.3	57.3
										72.5°	53.5	51.6
										75°	45.8	45.8
										77.5°	38.2	38.2
										80°	28.6	26.7
										82.5°	17.2	15.3
										85°	5.7	5.7
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0
										110°	102.0	101.0



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tinued):

CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	124.0	124.0	124.0
1187.7	1208.7	1222.1	1273.6	1296.5	1325.2	1338.5	1357.6	1376.7	115°	147.0	146.0	147.0
970.0	996.7	1019.7	1094.1	1138.0	1178.1	1210.6	1241.2	1285.1	117.5°	170.0	169.0	170.0
687.4	710.3	740.9	821.1	897.4	950.9	998.6	1050.2	1107.5	120°	195.0	193.0	195.0
525.1	559.5	599.6	660.7	721.8	760.0	802.0	859.3	928.0	122.5°	220.0	219.0	220.0
439.2	481.2	528.9	597.7	662.6	693.1	723.7	752.3	788.6	125°	246.0	244.0	246.0
347.5	387.6	444.9	525.1	601.5	635.9	672.1	706.5	739.0	127.5°	269.0	267.0	269.0
259.7	288.3	339.9	435.4	519.4	563.3	605.3	653.0	697.0	130°	292.0	290.0	292.0
198.6	212.0	248.2	322.7	425.8	481.2	534.6	595.8	658.8	132.5°	314.0	313.0	314.0
171.9	177.6	194.8	238.7	332.2	397.2	465.9	542.3	620.6	135°	337.0	336.0	337.0
158.5	162.3	171.9	192.9	259.7	328.4	399.1	490.7	586.2	137.5°	360.0	359.0	360.0
150.8	154.7	162.3	173.8	215.8	267.3	345.6	446.8	561.4	140°	383.0	382.0	383.0
141.3	145.1	158.5	171.9	196.7	229.1	296.0	395.3	523.2	142.5°	406.0	404.0	406.0
129.8	131.8	135.6	150.8	168.0	194.8	252.0	349.4	483.1	145°	426.0	425.0	426.0
105.0	110.7	118.4	133.7	150.8	171.9	225.3	318.9	458.3	147.5°	444.0	444.0	444.0
97.4	103.1	110.7	124.1	139.4	158.5	213.9	307.4	435.4	150°	462.0	461.0	462.0
91.7	97.4	105.0	120.3	129.8	152.8	208.1	290.2	412.4	152.5°	480.0	479.0	480.0
87.8	93.6	103.1	114.6	127.9	148.9	192.9	275.0	399.1	155°	500.0	499.0	500.0
84.0	89.7	101.2	110.7	129.8	141.3	183.3	263.5	387.6	157.5°	515.0	513.0	515.0
82.1	87.8	99.3	112.7	126.0	133.7	173.8	254.0	378.1	160°	527.0	525.0	527.0
80.2	85.9	97.4	124.1	120.3	127.9	166.1	246.3	372.3	162.5°	536.0	535.0	536.0
78.3	84.0	97.4	126.0	116.5	120.3	160.4	238.7	368.5	165°	547.0	546.0	547.0
74.5	82.1	97.4	116.5	108.8	116.5	148.9	227.2	359.0	167.5°	556.0	555.0	556.0
72.6	78.3	95.5	106.9	103.1	110.7	137.5	208.1	345.6	170°	563.0	562.0	563.0
70.7	76.4	95.5	95.5	97.4	105.0	124.1	185.2	322.7	172.5°	566.0	565.0	566.0
68.7	76.4	97.4	85.9	91.7	99.3	114.6	166.1	294.1	175°	569.0	567.0	569.0
66.8	72.6	84.0	82.1	87.8	93.6	110.7	152.8	269.2	177.5°	573.0	572.0	573.0
63.0	68.7	74.5	76.4	84.0	89.7	108.8	150.8	246.3	180°	576.0	576.0	576.0
57.3	63.0	66.8	72.6	78.3	85.9	108.8	148.9	229.1				
53.5	57.3	61.1	64.9	70.7	80.2	106.9	150.8	221.5				
45.8	49.6	53.5	57.3	63.0	74.5	101.2	141.3	198.6				
36.3	42.0	45.8	47.7	53.5	64.9	87.8	120.3	160.4				
26.7	32.5	34.4	38.2	42.0	49.6	68.7	87.8	118.4				
15.3	21.0	22.9	24.8	32.5	36.3	45.8	57.3	80.2				
5.7	9.5	11.5	13.4	19.1	21.0	28.6	36.3	42.0				
0.0	0.0	0.0	0.0	3.8	5.7	9.5	11.5	9.5				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
2.0	2.0	3.0	4.0	9.0	11.0	13.0	10.0	7.0				
8.0	10.0	14.0	22.0	30.0	31.0	32.0	31.0	30.0				
28.0	32.0	38.0	45.0	50.0	50.5	51.0	50.5	50.0				
54.0	56.0	61.0	66.0	70.0	70.5	71.0	71.0	71.0				
77.0	80.0	84.0	88.0	91.0	92.0	93.0	92.5	92.0				
102.0	103.0	106.0	110.0	112.0	113.0	114.0	114.0	114.0				



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CANDELA DISTRIBUTION (continued):

195°	205°	215°	225°	230°	235°	240°	245°		250°	255°	260°	265°
126.0	129.0	132.0	134.0	135.0	136.0	136.0	136.0	0°	1334.7	1334.7	1334.7	1334.7
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	1399.6	1418.7	1443.6	1466.5
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	1319.4	1355.7	1409.2	1453.1
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	1157.1	1206.8	1273.6	1334.7
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	987.2	1055.9	1126.6	1204.9
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	847.8	926.1	1006.3	1103.7
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	788.6	857.3	950.9	1057.8
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	763.8	851.6	958.6	1071.2
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	737.1	857.3	1000.6	1138.0
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	721.8	876.4	1054.0	1246.9
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	718.0	920.4	1145.7	1401.5
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	721.8	970.0	1260.2	1567.7
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	704.6	1021.6	1374.8	1712.8
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	675.9	1059.8	1476.0	1829.3
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	643.5	1076.9	1548.6	1938.1
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	609.1	1078.8	1617.3	2052.7
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	590.0	1071.2	1688.0	2194.0
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	582.4	1057.8	1739.5	2300.9
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	582.4	1044.5	1787.3	2381.1
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	584.3	1050.2	1844.5	2510.9
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	593.8	1115.1	1941.9	2654.2
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	609.1	1218.2	2110.0	2824.1
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	624.4	1323.3	2329.5	3108.6
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	637.8	1401.5	2543.4	3391.2
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	651.1	1462.6	2667.5	3517.2
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	643.5	1439.7	2701.9	3454.2
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	614.8	1319.4	2593.1	3236.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	536.6	1109.4	2258.9	2892.8
								70°	444.9	870.7	1842.6	2463.2
								72.5°	374.3	651.1	1416.8	1907.6
								75°	311.2	460.2	996.7	1313.7
								77.5°	231.0	313.2	721.8	918.5
								80°	154.7	192.9	460.2	641.6
								82.5°	93.6	112.7	265.4	448.7
								85°	51.6	70.7	162.3	294.1
								87.5°	13.4	15.3	36.3	13.4
								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°	6.0	5.0	4.5	4.0
								100°	28.5	27.0	26.5	26.0
								102.5°	49.0	48.0	48.5	49.0
								105°	70.0	69.0	70.0	71.0
								107.5°	91.5	91.0	91.5	92.0
								110°	113.5	113.0	113.5	114.0

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-ULG

CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	135.5	135.0	136.0	137.0	135.0
1483.7	1498.9	1518.0	1518.0	1540.9	1548.6	1563.9	115°	158.0	158.0	159.0	160.0	159.0
1506.6	1558.1	1605.9	1632.6	1678.4	1709.0	1739.5	117.5°	180.5	180.0	181.0	182.0	180.0
1413.0	1497.0	1575.3	1647.9	1724.2	1789.2	1836.9	120°	204.0	204.0	205.0	206.0	204.0
1288.9	1378.6	1474.1	1571.5	1663.1	1754.8	1833.1	122.5°	228.5	229.0	231.0	233.0	232.0
1201.1	1296.5	1409.2	1493.2	1588.7	1680.3	1756.7	125°	254.0	254.0	255.5	257.0	256.0
1161.0	1258.3	1363.4	1449.3	1539.0	1613.5	1667.0	127.5°	277.5	278.0	279.5	281.0	278.0
1182.0	1300.3	1393.9	1466.5	1533.3	1567.7	1575.3	130°	301.5	302.0	303.5	305.0	303.0
1273.6	1397.7	1466.5	1514.2	1525.7	1523.8	1495.1	132.5°	325.5	326.0	327.5	329.0	327.0
1416.8	1561.9	1609.7	1600.1	1552.4	1491.3	1443.6	135°	348.5	349.0	350.0	351.0	350.0
1609.7	1754.8	1781.5	1728.1	1621.1	1502.7	1422.5	137.5°	369.5	370.0	372.0	374.0	372.0
1812.1	1961.0	1951.5	1871.3	1718.5	1552.4	1424.5	140°	391.0	392.0	394.0	396.0	394.0
1955.3	2079.4	2041.2	1920.9	1751.0	1584.9	1449.3	142.5°	412.5	413.0	414.5	416.0	415.0
2104.2	2197.8	2129.1	1999.2	1823.5	1653.6	1514.2	145°	433.5	434.0	435.5	437.0	435.0
2264.6	2314.3	2203.5	2071.8	1911.4	1739.5	1588.7	147.5°	452.5	453.0	454.5	456.0	453.0
2419.3	2440.3	2279.9	2138.6	1982.0	1827.4	1689.9	150°	469.0	469.0	471.0	473.0	470.0
2585.4	2556.8	2360.1	2194.0	2039.3	1920.9	1808.3	152.5°	486.0	486.0	487.5	489.0	486.0
2728.6	2665.6	2434.6	2249.3	2110.0	2010.7	1932.4	155°	503.5	504.0	505.5	507.0	505.0
2835.6	2753.4	2505.2	2302.8	2178.7	2117.6	2079.4	157.5°	517.5	518.0	520.5	523.0	520.0
2927.2	2837.5	2560.6	2381.1	2274.2	2251.3	2264.6	160°	530.0	530.0	531.5	533.0	531.0
3041.8	2927.2	2635.1	2468.9	2404.0	2426.9	2503.3	162.5°	539.0	538.0	539.0	540.0	537.0
3219.4	3070.4	2759.2	2595.0	2564.4	2646.5	2791.6	165°	549.0	548.0	549.0	550.0	548.0
3505.8	3330.1	2978.8	2814.5	2778.3	2904.3	3112.4	167.5°	558.5	559.0	561.0	563.0	561.0
3754.0	3620.3	3269.0	3070.4	3055.1	3190.7	3417.9	170°	565.0	566.0	568.5	571.0	569.0
3866.7	3853.3	3568.8	3385.5	3362.6	3488.6	3704.4	172.5°	567.5	568.0	569.5	571.0	568.0
3857.1	3967.9	3813.2	3683.4	3605.1	3710.1	3920.1	175°	569.0	568.0	569.5	571.0	568.0
3717.7	3899.1	3912.5	3881.9	3740.6	3748.3	3897.2	177.5°	574.0	574.0	575.5	577.0	574.0
3444.7	3660.4	3885.8	3876.2	3696.7	3538.2	3568.8	180°	576.0	576.0	576.0	576.0	576.0
3057.1	3242.3	3601.2	3673.8	3417.9	3122.0	2982.6						
2449.8	2665.6	3198.4	3299.6	2950.1	2533.9	2318.1						
1689.9	1974.4	2791.6	2801.2	2394.5	1993.5	1760.5						
1161.0	1405.4	2257.0	2281.8	1899.9	1512.3	1311.8						
781.0	941.4	1655.5	1550.5	1254.5	1048.3	996.7						
492.6	586.2	1040.7	971.9	826.8	756.1	775.2						
229.1	320.8	569.0	555.7	521.3	456.4	397.2						
5.7	17.2	110.7	72.6	72.6	42.0	15.3						
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						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
4.0	4.0	4.5	5.0	6.0	7.0	10.0						
25.0	26.0	26.5	27.0	28.5	30.0	31.0						
48.0	49.0	48.5	48.0	49.0	50.0	50.5						
69.0	71.0	70.0	69.0	70.0	71.0	71.0						
91.0	92.0	91.5	91.0	91.5	92.0	92.5						
113.0	114.0	113.5	113.0	113.5	114.0	114.0						



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CANDELA DISTRIBUTION (continued):

275°	280°	285°	290°	295°	300°		305°	310°	315°	325°	335°	340°
137.0	136.0	135.0	135.5	136.0	136.0	0°	1334.7	1334.7	1334.7	1334.7	1334.7	1334.7
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1550.5	1556.2	1554.3	1540.9	1506.6	1493.2
182.0	181.0	180.0	180.5	181.0	180.5	5°	1737.6	1747.2	1735.7	1703.2	1615.4	1573.4
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	1869.4	1877.0	1857.9	1783.4	1626.9	1556.2
233.0	231.0	229.0	228.5	228.0	228.0	10°	1894.2	1911.4	1890.4	1783.4	1602.0	1514.2
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	1823.5	1859.8	1844.5	1766.3	1590.6	1497.0
281.0	279.5	278.0	277.5	277.0	277.5	15°	1714.7	1718.5	1728.1	1726.2	1569.6	1477.9
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1594.4	1590.6	1602.0	1638.3	1563.9	1491.3
329.0	327.5	326.0	325.5	325.0	325.0	20°	1485.6	1479.8	1491.3	1527.6	1540.9	1523.8
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	1416.8	1397.7	1395.8	1449.3	1552.4	1598.2
374.0	372.0	370.0	369.5	369.0	369.0	25°	1378.6	1357.6	1367.2	1428.3	1600.1	1686.1
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	1367.2	1344.3	1357.6	1426.4	1649.8	1793.0
416.0	414.5	413.0	412.5	412.0	412.0	30°	1374.8	1351.9	1357.6	1439.7	1674.6	1817.8
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	1418.7	1378.6	1374.8	1479.8	1720.4	1873.2
456.0	454.5	453.0	452.5	452.0	453.0	35°	1477.9	1420.6	1413.0	1544.8	1779.6	1943.8
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1577.2	1506.6	1495.1	1653.6	1859.8	2003.0
489.0	487.5	486.0	486.0	486.0	486.5	40°	1710.9	1640.2	1640.2	1793.0	1968.7	2085.1
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	1861.7	1815.9	1823.5	1961.0	2092.8	2188.2
523.0	520.5	518.0	517.5	517.0	518.0	45°	2062.2	2037.4	2075.6	2173.0	2218.8	2283.7
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	2297.1	2318.1	2371.6	2402.1	2346.7	2381.1
540.0	539.0	538.0	539.0	540.0	541.0	50°	2591.1	2646.5	2698.1	2690.4	2505.2	2493.8
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	2929.1	3001.7	3038.0	2995.9	2682.8	2616.0
563.0	561.0	559.0	558.5	558.0	559.0	55°	3272.8	3360.7	3349.2	3301.5	2875.7	2785.9
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	3584.1	3652.8	3683.4	3580.2	3110.5	2992.1
571.0	569.5	568.0	567.5	567.0	568.0	60°	3830.4	3904.9	3904.9	3803.7	3366.4	3228.9
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	4009.9	4069.1	4048.1	3950.7	3586.0	3481.0
577.0	575.5	574.0	574.0	574.0	575.5	65°	3996.5	4002.2	3979.3	3943.0	3717.7	3706.3
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	3620.3	3622.3	3668.1	3652.8	3618.4	3759.7
						70°	2967.3	2997.9	3076.1	3053.2	3228.9	3519.1
						72.5°	2258.9	2278.0	2371.6	2350.5	2589.2	2908.1
						75°	1644.0	1642.1	1682.2	1651.7	1953.4	2308.5
						77.5°	1266.0	1231.6	1224.0	1227.8	1384.4	1678.4
						80°	1021.6	1021.6	1010.1	968.1	847.8	981.5
						82.5°	815.3	782.9	725.6	643.5	544.2	580.5
						85°	406.7	395.3	345.6	286.4	238.7	317.0
						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°	13.0	11.0	9.0	4.0	3.0	2.5
						100°	32.0	31.0	30.0	22.0	14.0	12.0
						102.5°	51.0	50.5	50.0	45.0	38.0	35.0
						105°	71.0	70.5	70.0	66.0	61.0	58.5
						107.5°	93.0	92.0	91.0	88.0	84.0	82.0
						110°	114.0	113.0	112.0	110.0	106.0	104.5

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CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
1334.7	1334.7	1334.7	1334.7	1334.7	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1487.5	1472.2	1455.0	1455.0	1439.7	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1548.6	1518.0	1493.2	1470.3	1447.4	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1518.0	1481.7	1451.2	1411.1	1374.8	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
1472.2	1432.1	1388.2	1346.2	1294.6	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
1447.4	1399.6	1346.2	1302.3	1243.1	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
1428.3	1378.6	1330.9	1288.9	1237.3	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
1458.8	1411.1	1376.7	1329.0	1288.9	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1510.4	1481.7	1455.0	1424.5	1392.0	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1607.8	1603.9	1602.0	1579.1	1556.2	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1730.0	1745.2	1766.3	1766.3	1766.3	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
1856.0	1894.2	1934.3	1951.5	1962.9	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
1892.3	1947.7	2010.7	2052.7	2081.3	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
1951.5	2014.5	2085.1	2132.9	2184.4	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
2022.1	2077.5	2150.1	2215.0	2289.4	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
2081.3	2153.9	2232.2	2316.2	2411.7	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
2171.1	2247.4	2333.4	2446.0	2562.5	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
2270.4	2352.5	2442.2	2554.9	2690.4	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
2356.3	2428.8	2526.2	2642.7	2797.4	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
2438.4	2505.2	2619.8	2738.2	2890.9	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
2547.2	2598.8	2713.3	2848.9	3011.2	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
2659.9	2730.5	2856.6	3011.2	3192.6	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
2812.6	2896.7	3051.3	3227.0	3456.1	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
3022.7	3110.5	3274.7	3471.4	3706.3	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
3280.5	3366.4	3507.7	3702.4	3922.0	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
3521.0	3639.4	3767.4	3912.5	4086.3	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
3782.6	3874.3	3981.2	4036.6	4134.0	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
3859.0	3935.4	4029.0	4029.0	4017.5	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
3633.7	3750.2	3832.3	3832.3	3734.9								
3160.2	3354.9	3435.1	3484.8	3360.7								
2568.2	2810.7	2942.5	2984.5	2759.2								
1884.6	2039.3	2056.5	2062.2	1758.6								
1086.5	1208.7	1252.6	1315.6	1054.0								
630.1	675.9	750.4	777.2	641.6								
353.3	357.1	357.1	330.3	269.2								
0.0	0.0	0.0	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								
2.2	2.0	2.0	2.0	2.0								
11.0	10.0	9.5	9.0	8.5								
33.5	32.0	31.0	30.0	29.0								
57.2	56.0	55.5	55.0	54.5								
81.0	80.0	79.2	78.5	77.8								
103.8	103.0	102.8	102.5	102.2								

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CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	1334.7	1334.7	1334.7
149.0	148.5	148.0	147.5	2.5°	1435.9	1413.0	1416.8
172.0	171.5	171.0	170.5	5°	1414.9	1382.5	1371.0
196.0	195.8	195.5	195.2	7.5°	1342.4	1287.0	1269.8
221.0	220.8	220.5	220.2	10°	1254.5	1183.9	1170.5
247.0	246.8	246.5	246.2	12.5°	1204.9	1124.7	1107.5
270.0	269.8	269.5	269.2	15°	1189.6	1113.2	1094.1
293.0	292.8	292.5	292.2	17.5°	1235.4	1153.3	1130.4
317.0	316.2	315.5	314.8	20°	1340.4	1243.1	1216.3
339.0	338.5	338.0	337.5	22.5°	1497.0	1386.3	1353.8
363.0	362.2	361.5	360.8	25°	1709.0	1582.9	1550.5
385.0	384.5	384.0	383.5	27.5°	1926.6	1775.8	1733.8
408.0	407.5	407.0	406.5	30°	2052.7	1913.3	1871.3
428.0	427.5	427.0	426.5	32.5°	2180.6	2046.9	1997.3
447.0	446.2	445.5	444.8	35°	2316.2	2180.6	2131.0
464.0	463.5	463.0	462.5	37.5°	2474.7	2360.1	2316.2
483.0	482.2	481.5	480.8	40°	2663.7	2558.7	2495.7
502.0	501.5	501.0	500.5	42.5°	2820.3	2722.9	2663.7
517.0	516.5	516.0	515.5	45°	2934.8	2852.7	2791.6
529.0	528.5	528.0	527.5	47.5°	3039.9	2976.9	2915.8
539.0	538.2	537.5	536.8	50°	3171.6	3118.2	3076.1
549.0	548.5	548.0	547.5	52.5°	3349.2	3330.1	3293.8
559.0	558.2	557.5	556.8	55°	3610.8	3652.8	3601.2
566.0	565.2	564.5	563.8	57.5°	3859.0	3889.6	3866.7
569.0	568.2	567.5	566.8	60°	4053.8	4011.8	3983.1
570.0	569.8	569.5	569.2	62.5°	4153.1	4050.0	4002.2
575.0	574.5	574.0	573.5	65°	4158.8	4000.3	3927.8
576.0	576.0	576.0	576.0	67.5°	4029.0	3843.7	3759.7
				70°	3679.5	3465.7	3354.9
				72.5°	3091.4	2763.0	2688.5
				75°	2266.5	1863.6	1819.7
				77.5°	1372.9	1071.2	1013.9
				80°	773.3	614.8	595.8
				82.5°	439.2	345.6	364.7
				85°	179.5	89.7	99.3
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

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CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)