

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: P228664

Luminaire Tested: **ISC-AF-1000-LED-E1-SLR-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228664
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-7030-ULG
Description: IMPACT ELITE LED CYLINDER LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, WITH
UPLIGHT GLOW
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695.2 lumens
Efficiency: N/A
Efficacy: 79.9 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

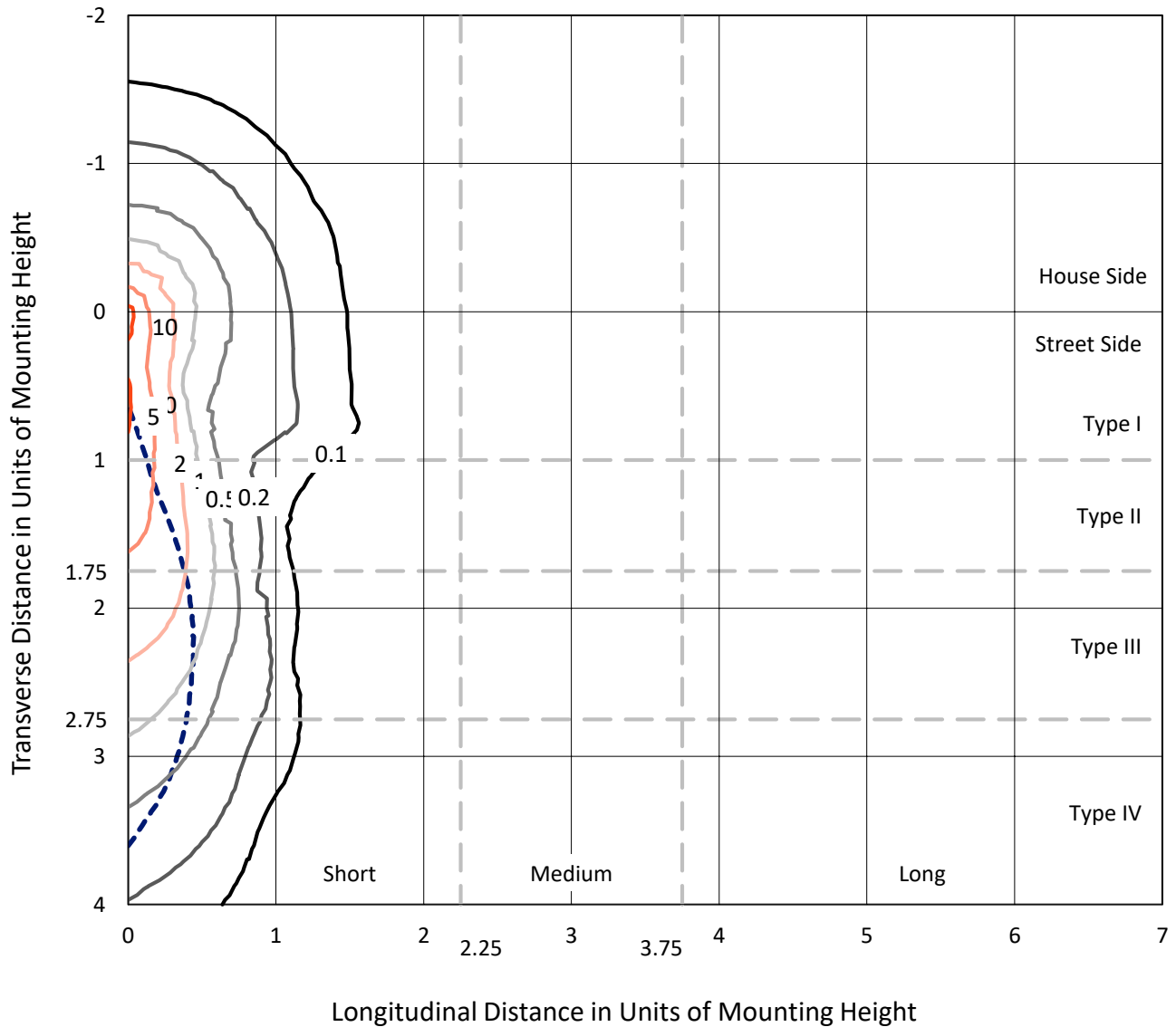


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

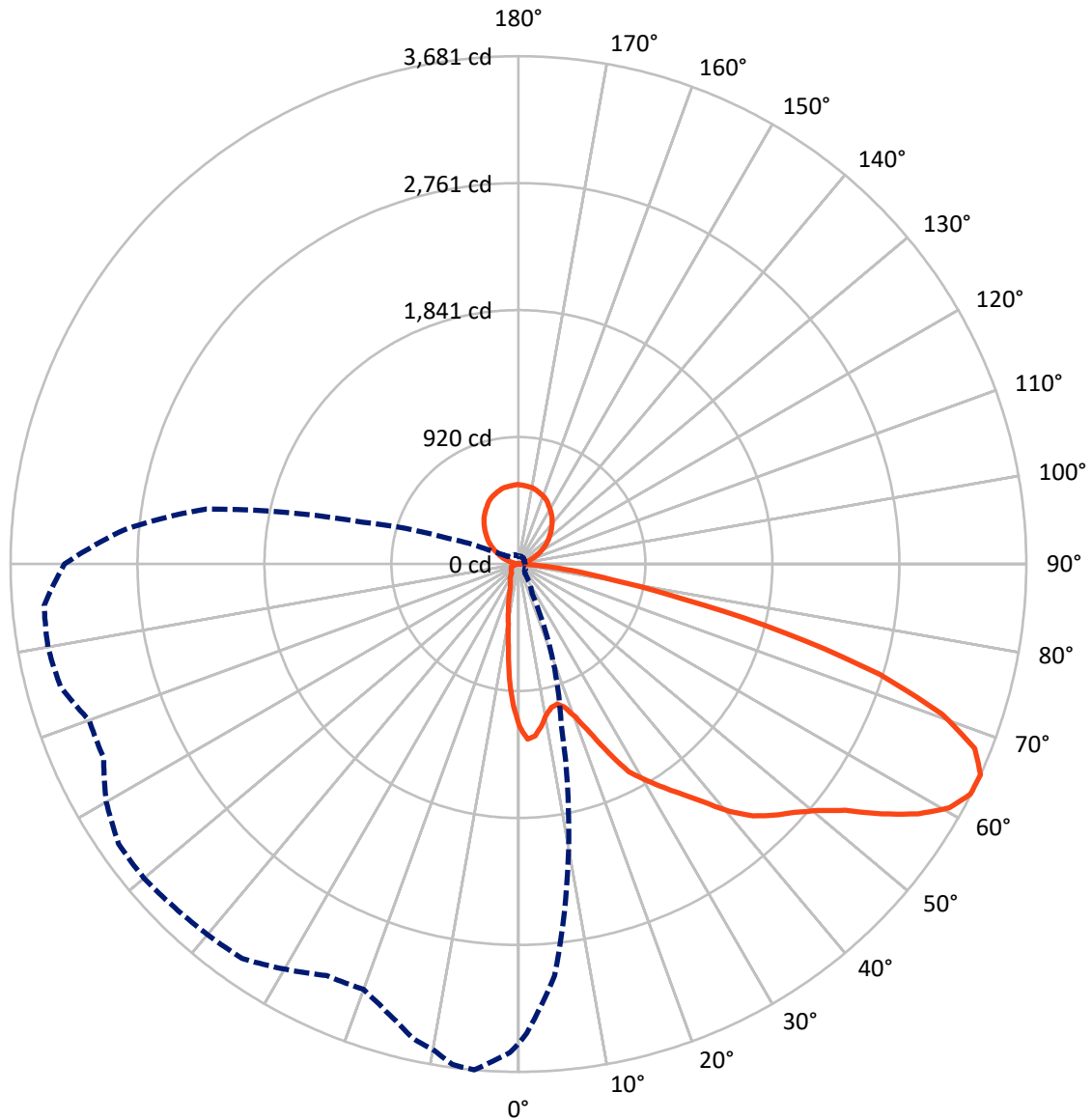


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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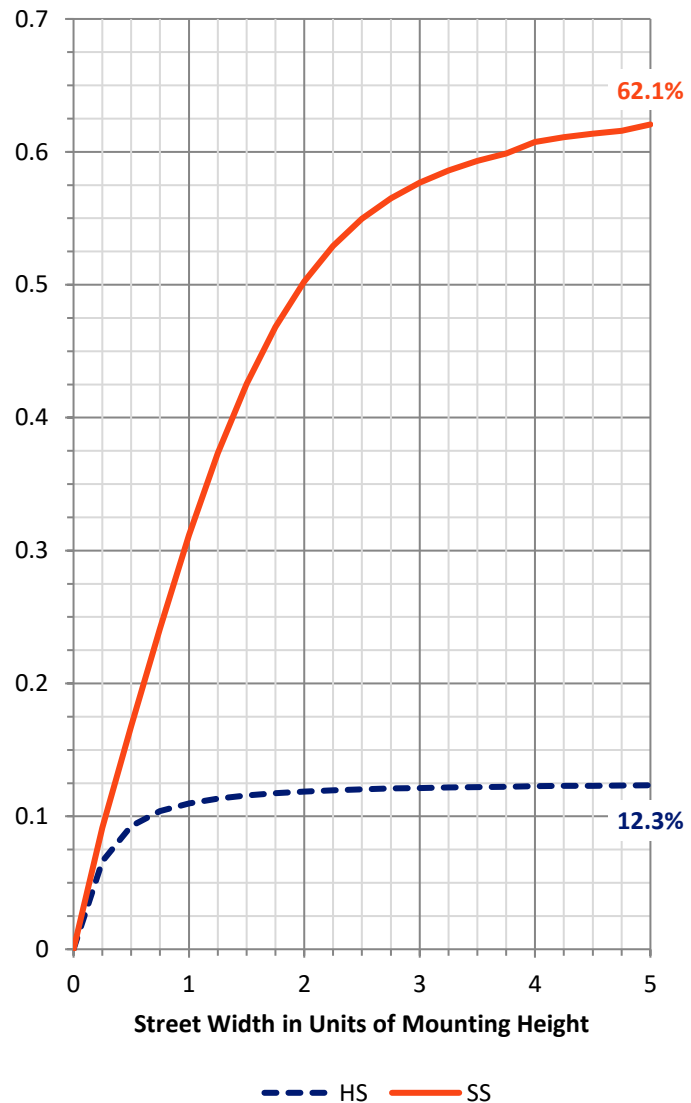
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.8	713.1	1422.9
	% Fixture	12.5	12.5	25.0
Street Side	Lumens	3559.2	713.1	4272.2
	% Fixture	62.5	12.5	75.0
Total	Lumens	4269.0	1426.2	5695.2
	% Fixture	75.0	25.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.6
10°-20°	186.9	3.3
20°-30°	271.7	4.8
30°-40°	401.9	7.1
40°-50°	585.6	10.3
50°-60°	877.8	15.4
60°-70°	1093.8	19.2
70°-80°	640.7	11.3
80°-90°	119.8	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.7
120°-130°	223.9	3.9
130°-140°	265.6	4.7
140°-150°	269.3	4.7
150°-160°	231.1	4.1
160°-170°	155.1	2.7
170°-180°	54.3	1.0
0°-90°	4269.0	75.0
0°-180°	5695.2	100.0



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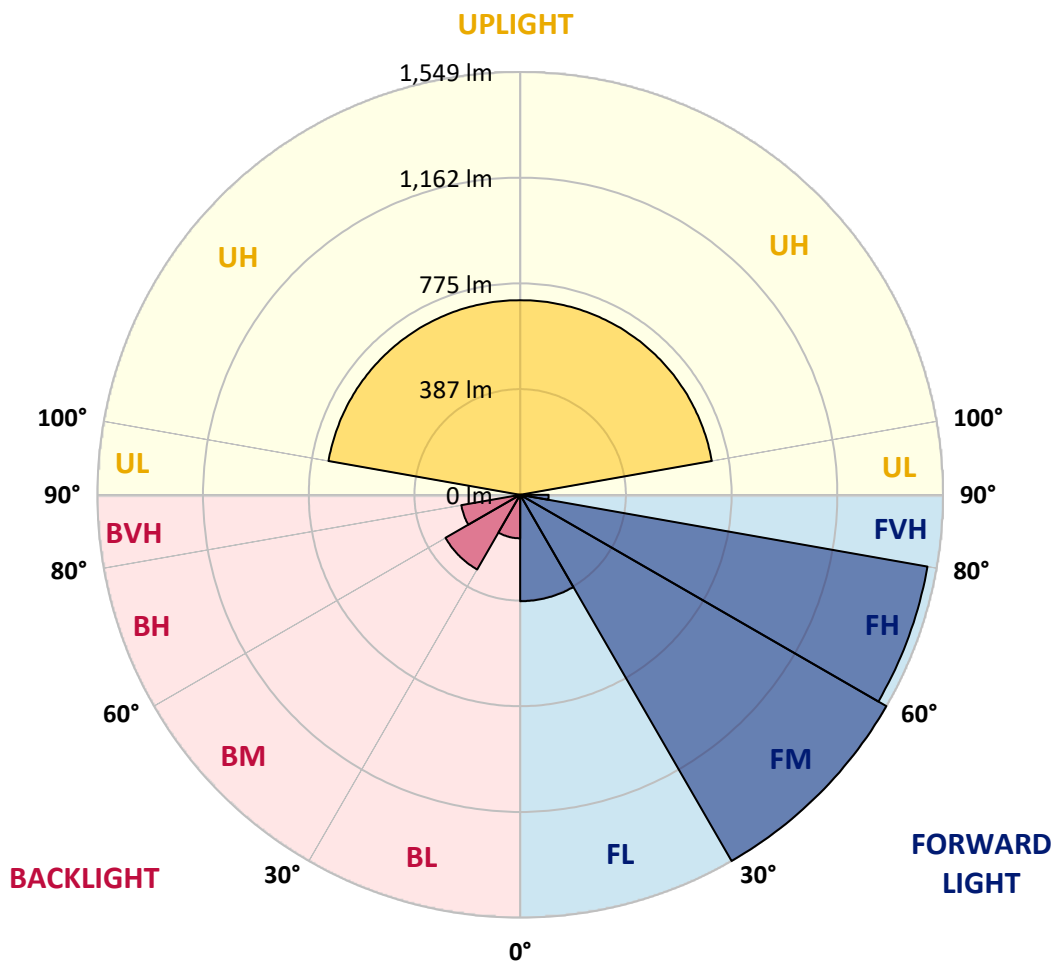
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.0	6.8			
FM	(30°-60°)	1549.3	27.2			
FH	(60°-80°)	1515.5	26.6			G1/1800
FVH	(80°-90°)	104.4	1.8			G2/225
BL	(0°-30°)	159.4	2.8	B1/500		
BM	(30°-60°)	315.9	5.5	B1/1000		
BH	(60°-80°)	219.1	3.8	B1/500		G1/500
BVH	(80°-90°)	15.4	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	12.5		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°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1254.1	1243.9	1223.7	1183.1	1140.8	1100.3	1093.5	1078.3	1080.0	1071.5	1068.2
5°	1213.5	1200.0	1157.7	1073.2	1000.6	926.2	921.1	890.7	894.1	875.5	865.3
7.5°	1123.9	1105.3	1058.0	941.4	840.0	742.0	731.8	696.3	691.3	672.7	657.5
10°	1036.0	1017.5	958.3	824.8	708.2	635.5	623.7	606.8	593.2	584.8	569.6
12.5°	980.3	970.1	899.1	745.3	654.1	594.9	579.7	562.8	549.3	534.1	518.9
15°	968.4	948.2	875.5	720.0	613.5	540.8	522.3	503.7	488.4	473.2	451.3
17.5°	1000.6	980.3	899.1	708.2	567.9	480.0	456.3	431.0	415.8	397.2	373.5
20°	1076.6	1044.5	944.8	691.3	518.9	409.0	380.3	349.9	333.0	300.8	283.9
22.5°	1198.3	1157.7	1022.5	691.3	473.2	334.6	302.5	275.5	256.9	228.2	209.6
25°	1372.4	1336.9	1149.3	709.9	432.7	272.1	240.0	213.0	194.4	174.1	162.3
27.5°	1534.6	1478.9	1284.5	736.9	400.6	228.2	196.1	174.1	160.6	150.4	143.7
30°	1656.3	1610.7	1402.8	755.5	353.2	191.0	170.7	157.2	150.4	145.4	142.0
32.5°	1767.9	1715.5	1487.3	767.3	324.5	162.3	143.7	133.5	126.8	120.0	118.3
35°	1886.2	1835.5	1587.0	765.6	305.9	148.7	130.1	118.3	111.5	109.9	106.5
37.5°	2050.1	1980.8	1702.0	765.6	299.2	143.7	121.7	109.9	104.8	101.4	99.7
40°	2209.0	2131.3	1828.7	770.7	292.4	140.3	121.7	109.9	101.4	98.0	94.6
42.5°	2357.7	2271.5	1943.6	779.2	289.0	130.1	114.9	108.2	104.8	98.0	93.0
45°	2471.0	2403.4	2033.2	796.1	289.0	123.4	108.2	103.1	101.4	101.4	99.7
47.5°	2580.8	2504.8	2136.3	828.2	294.1	118.3	103.1	96.3	96.3	96.3	98.0
50°	2722.8	2633.2	2278.3	894.1	294.1	116.6	98.0	91.3	89.6	93.0	93.0
52.5°	2915.5	2851.2	2486.2	988.7	290.7	114.9	96.3	86.2	84.5	86.2	89.6
55°	3187.6	3114.9	2738.0	1105.3	287.3	111.5	93.0	84.5	81.1	79.4	81.1
57.5°	3422.5	3360.0	2969.6	1198.3	278.9	103.1	89.6	82.8	77.7	76.1	74.4
60°	3525.6	3473.2	3118.3	1260.8	263.7	94.6	84.5	79.4	74.4	72.7	71.0
62.5°	3542.5	3476.6	3120.0	1274.4	246.8	86.2	79.4	74.4	71.0	69.3	67.6
65°	3476.6	3402.2	2996.6	1191.5	233.2	86.2	76.1	71.0	65.9	64.2	62.5
67.5°	3327.9	3212.9	2683.9	1010.7	221.4	87.9	74.4	65.9	62.5	60.8	59.2
70°	2969.6	2841.1	2266.5	802.8	216.3	89.6	74.4	62.5	57.5	55.8	55.8
72.5°	2379.7	2232.7	1767.9	605.1	207.9	91.3	72.7	59.2	54.1	50.7	50.7
75°	1610.7	1482.2	1198.3	409.0	172.4	79.4	65.9	54.1	47.3	43.9	42.3
77.5°	897.5	855.2	762.2	216.3	109.9	59.2	50.7	43.9	38.9	37.2	35.5
80°	527.3	505.3	449.6	120.0	67.6	33.8	30.4	28.7	25.4	25.4	25.4
82.5°	322.8	300.8	278.9	54.1	32.1	16.9	16.9	13.5	13.5	11.8	11.8
85°	87.9	81.1	113.2	11.8	3.4	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°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1054.6	1051.3	1051.3	1025.9	1025.9	1012.4	1009.0	1009.0	1014.1	1010.7	990.4
5°	848.4	838.3	831.5	801.1	792.7	777.5	770.7	769.0	774.1	765.6	738.6
7.5°	638.9	630.4	620.3	596.6	586.5	584.8	564.5	559.4	556.1	549.3	532.4
10°	557.7	545.9	537.5	520.6	508.7	500.3	483.4	474.9	468.2	458.0	453.0
12.5°	502.0	490.1	478.3	456.3	441.1	431.0	420.8	403.9	397.2	385.3	378.6
15°	432.7	419.2	405.6	382.0	361.7	351.5	331.3	321.1	314.4	300.8	294.1
17.5°	348.2	329.6	314.4	292.4	282.3	265.4	253.5	236.6	223.1	218.0	213.0
20°	262.0	245.1	231.5	213.0	202.8	189.3	182.5	170.7	163.9	160.6	157.2
22.5°	192.7	179.2	170.7	160.6	155.5	150.4	147.0	143.7	140.3	138.6	138.6
25°	152.1	147.0	143.7	140.3	138.6	136.9	133.5	131.8	130.1	128.4	128.4
27.5°	138.6	135.2	133.5	131.8	130.1	126.8	126.8	123.4	121.7	121.7	120.0
30°	140.3	140.3	140.3	136.9	135.2	131.8	130.1	125.1	121.7	118.3	116.6
32.5°	114.9	114.9	113.2	109.9	108.2	106.5	106.5	103.1	101.4	101.4	104.8
35°	104.8	103.1	101.4	98.0	96.3	93.0	91.3	89.6	87.9	86.2	86.2
37.5°	99.7	98.0	96.3	93.0	91.3	89.6	87.9	84.5	82.8	82.8	81.1
40°	94.6	94.6	94.6	91.3	89.6	86.2	84.5	82.8	81.1	79.4	79.4
42.5°	91.3	91.3	91.3	89.6	87.9	86.2	82.8	81.1	79.4	77.7	76.1
45°	93.0	91.3	91.3	89.6	87.9	84.5	82.8	79.4	77.7	76.1	74.4
47.5°	99.7	98.0	94.6	91.3	87.9	84.5	81.1	77.7	76.1	74.4	72.7
50°	94.6	101.4	103.1	98.0	89.6	84.5	81.1	77.7	74.4	72.7	71.0
52.5°	93.0	94.6	101.4	101.4	93.0	86.2	81.1	77.7	74.4	71.0	69.3
55°	84.5	89.6	91.3	93.0	91.3	84.5	79.4	74.4	72.7	69.3	65.9
57.5°	74.4	77.7	79.4	82.8	84.5	82.8	76.1	71.0	69.3	65.9	62.5
60°	69.3	69.3	69.3	71.0	79.4	86.2	79.4	69.3	64.2	62.5	59.2
62.5°	64.2	64.2	62.5	64.2	65.9	74.4	72.7	65.9	62.5	60.8	57.5
65°	62.5	60.8	59.2	59.2	59.2	59.2	59.2	59.2	57.5	57.5	55.8
67.5°	57.5	55.8	55.8	54.1	54.1	54.1	54.1	54.1	52.4	52.4	50.7
70°	54.1	52.4	50.7	50.7	50.7	49.0	49.0	49.0	47.3	47.3	47.3
72.5°	49.0	47.3	47.3	47.3	45.6	45.6	45.6	43.9	43.9	42.3	42.3
75°	42.3	42.3	40.6	40.6	40.6	38.9	38.9	38.9	38.9	37.2	37.2
77.5°	35.5	33.8	35.5	33.8	33.8	33.8	33.8	33.8	32.1	32.1	30.4
80°	23.7	23.7	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	23.7
82.5°	13.5	11.8	13.5	13.5	13.5	15.2	15.2	16.9	15.2	15.2	13.5
85°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	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-7030-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: P228664

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1000.6	998.9	982.0	985.3	980.3	970.1	971.8	973.5	976.9	970.1	966.8
5°	752.1	753.8	731.8	738.6	733.5	731.8	736.9	745.3	750.4	748.7	743.7
7.5°	534.1	535.8	517.2	515.5	510.4	508.7	515.5	523.9	529.0	527.3	529.0
10°	441.1	436.1	419.2	407.3	395.5	385.3	383.7	383.7	383.7	380.3	376.9
12.5°	365.1	360.0	339.7	329.6	319.4	305.9	304.2	302.5	297.5	292.4	285.6
15°	283.9	278.9	262.0	255.2	246.8	241.7	240.0	240.0	236.6	233.2	229.9
17.5°	206.2	202.8	192.7	185.9	184.2	185.9	187.6	191.0	192.7	194.4	194.4
20°	155.5	153.8	150.4	150.4	152.1	157.2	158.9	163.9	165.6	169.0	172.4
22.5°	136.9	136.9	135.2	135.2	138.6	143.7	147.0	148.7	150.4	152.1	152.1
25°	126.8	126.8	125.1	128.4	133.5	133.5	133.5	133.5	130.1	128.4	128.4
27.5°	120.0	120.0	120.0	121.7	120.0	118.3	118.3	118.3	116.6	116.6	114.9
30°	114.9	114.9	114.9	113.2	113.2	111.5	111.5	109.9	109.9	108.2	108.2
32.5°	106.5	103.1	106.5	103.1	103.1	101.4	103.1	103.1	99.7	99.7	99.7
35°	84.5	82.8	82.8	82.8	81.1	82.8	86.2	86.2	86.2	86.2	86.2
37.5°	79.4	79.4	77.7	76.1	76.1	74.4	76.1	74.4	74.4	74.4	76.1
40°	77.7	76.1	74.4	74.4	72.7	71.0	71.0	71.0	71.0	71.0	71.0
42.5°	74.4	74.4	71.0	69.3	69.3	67.6	67.6	67.6	67.6	67.6	67.6
45°	72.7	71.0	69.3	67.6	65.9	65.9	65.9	65.9	65.9	65.9	64.2
47.5°	71.0	69.3	67.6	65.9	64.2	62.5	62.5	62.5	62.5	62.5	62.5
50°	69.3	67.6	64.2	64.2	62.5	60.8	60.8	60.8	60.8	60.8	60.8
52.5°	65.9	65.9	62.5	60.8	59.2	59.2	59.2	59.2	59.2	59.2	59.2
55°	62.5	62.5	59.2	57.5	55.8	55.8	55.8	55.8	57.5	57.5	57.5
57.5°	60.8	59.2	55.8	55.8	52.4	52.4	52.4	54.1	54.1	55.8	55.8
60°	57.5	55.8	54.1	52.4	52.4	50.7	50.7	50.7	50.7	52.4	52.4
62.5°	55.8	54.1	50.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
65°	52.4	52.4	49.0	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
67.5°	49.0	49.0	45.6	43.9	43.9	43.9	45.6	43.9	43.9	43.9	43.9
70°	45.6	43.9	42.3	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
72.5°	40.6	40.6	38.9	37.2	37.2	37.2	37.2	37.2	37.2	37.2	38.9
75°	35.5	33.8	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
77.5°	30.4	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	28.7
80°	22.0	20.3	20.3	20.3	20.3	22.0	22.0	22.0	22.0	22.0	22.0
82.5°	13.5	11.8	11.8	11.8	13.5	15.2	15.2	15.2	15.2	16.9	16.9
85°	3.4	3.4	3.4	3.4	6.8	8.5	8.5	8.5	10.1	8.5	8.5
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°

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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°
1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	136.0
963.4	983.7	983.7	970.1	976.9	970.1	968.4	980.3	987.0	1009.0	1022.5	115°	158.0
745.3	770.7	772.4	765.6	774.1	769.0	774.1	789.3	801.1	816.3	829.9	117.5°	181.0
532.4	556.1	561.1	556.1	571.3	569.6	573.0	589.9	600.0	608.4	610.1	120°	204.0
375.2	378.6	392.1	388.7	398.9	397.2	402.3	415.8	429.3	434.4	437.7	122.5°	228.0
282.3	278.9	283.9	277.2	282.3	282.3	283.9	292.4	309.3	316.1	333.0	125°	254.0
228.2	224.8	224.8	221.4	221.4	219.7	221.4	228.2	240.0	250.1	263.7	127.5°	277.0
194.4	194.4	194.4	192.7	191.0	191.0	192.7	196.1	202.8	209.6	216.3	130°	301.0
174.1	177.5	179.2	180.8	182.5	184.2	185.9	191.0	189.3	182.5	174.1	132.5°	325.0
152.1	152.1	153.8	153.8	152.1	152.1	152.1	152.1	152.1	157.2	162.3	135°	348.0
126.8	126.8	126.8	128.4	126.8	126.8	128.4	128.4	130.1	133.5	138.6	137.5°	369.0
114.9	114.9	114.9	114.9	114.9	114.9	114.9	116.6	118.3	123.4	126.8	140°	390.0
106.5	106.5	104.8	104.8	104.8	103.1	104.8	104.8	106.5	113.2	118.3	142.5°	412.0
98.0	96.3	96.3	96.3	94.6	94.6	94.6	98.0	99.7	103.1	108.2	145°	433.0
86.2	86.2	86.2	87.9	87.9	87.9	87.9	91.3	91.3	93.0	93.0	147.5°	452.0
77.7	77.7	79.4	81.1	81.1	82.8	82.8	84.5	86.2	84.5	82.8	150°	469.0
71.0	72.7	72.7	76.1	76.1	76.1	77.7	79.4	81.1	77.7	77.7	152.5°	486.0
67.6	67.6	67.6	69.3	69.3	69.3	71.0	72.7	74.4	74.4	74.4	155°	503.0
64.2	64.2	64.2	65.9	64.2	64.2	64.2	65.9	69.3	69.3	71.0	157.5°	517.0
62.5	62.5	62.5	60.8	60.8	60.8	60.8	62.5	64.2	67.6	69.3	160°	530.0
60.8	59.2	59.2	59.2	59.2	59.2	59.2	60.8	62.5	64.2	67.6	162.5°	540.0
57.5	57.5	57.5	57.5	57.5	57.5	57.5	59.2	60.8	62.5	64.2	165°	550.0
57.5	57.5	55.8	55.8	57.5	57.5	57.5	59.2	60.8	62.5	62.5	167.5°	558.0
55.8	54.1	54.1	55.8	55.8	55.8	55.8	57.5	59.2	60.8	60.8	170°	564.0
52.4	52.4	52.4	52.4	54.1	54.1	55.8	57.5	57.5	59.2	59.2	172.5°	567.0
49.0	50.7	50.7	50.7	52.4	52.4	54.1	55.8	57.5	59.2	57.5	175°	570.0
47.3	49.0	49.0	49.0	50.7	50.7	50.7	54.1	55.8	55.8	57.5	177.5°	574.0
45.6	45.6	45.6	47.3	47.3	49.0	49.0	52.4	52.4	54.1	55.8	180°	576.0
42.3	42.3	42.3	43.9	43.9	45.6	47.3	49.0	49.0	50.7	52.4		
38.9	38.9	38.9	40.6	40.6	42.3	43.9	47.3	45.6	47.3	47.3		
33.8	33.8	35.5	35.5	37.2	38.9	40.6	40.6	40.6	40.6	40.6		
28.7	28.7	30.4	30.4	32.1	33.8	33.8	33.8	35.5	33.8	33.8		
23.7	23.7	25.4	25.4	25.4	25.4	27.0	25.4	27.0	25.4	27.0		
16.9	16.9	18.6	16.9	18.6	16.9	16.9	15.2	18.6	16.9	16.9		
6.8	8.5	8.5	8.5	8.5	6.8	6.8	5.1	6.8	6.8	5.1		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		

'228664
 ISC-AF-1000-LED-E1-SLR-7030-ULG

REPORT NUMBER: P228664
 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°	1181.4	1181.4
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	1027.6	1025.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	831.5	828.2
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	594.9	588.2
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	439.4	444.5
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	351.5	371.8
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	282.3	294.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	218.0	223.1
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	174.1	174.1
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	152.1	150.4
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	143.7	142.0
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	130.1	131.8
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	121.7	123.4
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	111.5	113.2
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	91.3	91.3
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	84.5	84.5
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	79.4	81.1
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	76.1	76.1
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	72.7	74.4
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	71.0	71.0
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	67.6	69.3
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	65.9	67.6
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	64.2	64.2
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	60.8	62.5
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	60.8	60.8
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	59.2	59.2
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	57.5	57.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	54.1	54.1
										70°	50.7	50.7
										72.5°	47.3	45.6
										75°	40.6	40.6
										77.5°	33.8	33.8
										80°	25.4	23.7
										82.5°	15.2	13.5
										85°	5.1	5.1
										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°
1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	124.0	124.0	124.0
1051.3	1069.9	1081.7	1127.3	1147.6	1173.0	1184.8	1201.7	1218.6	115°	147.0	146.0	147.0
858.6	882.2	902.5	968.4	1007.3	1042.8	1071.5	1098.6	1137.5	117.5°	170.0	169.0	170.0
608.4	628.7	655.8	726.8	794.4	841.7	883.9	929.6	980.3	120°	195.0	193.0	195.0
464.8	495.2	530.7	584.8	638.9	672.7	709.9	760.6	821.4	122.5°	220.0	219.0	220.0
388.7	425.9	468.2	529.0	586.5	613.5	640.6	665.9	698.0	125°	246.0	244.0	246.0
307.6	343.1	393.8	464.8	532.4	562.8	594.9	625.3	654.1	127.5°	269.0	267.0	269.0
229.9	255.2	300.8	385.3	459.7	498.6	535.8	578.0	616.9	130°	292.0	290.0	292.0
175.8	187.6	219.7	285.6	376.9	425.9	473.2	527.3	583.1	132.5°	314.0	313.0	314.0
152.1	157.2	172.4	211.3	294.1	351.5	412.4	480.0	549.3	135°	337.0	336.0	337.0
140.3	143.7	152.1	170.7	229.9	290.7	353.2	434.4	518.9	137.5°	360.0	359.0	360.0
133.5	136.9	143.7	153.8	191.0	236.6	305.9	395.5	496.9	140°	383.0	382.0	383.0
125.1	128.4	140.3	152.1	174.1	202.8	262.0	349.9	463.1	142.5°	406.0	404.0	406.0
114.9	116.6	120.0	133.5	148.7	172.4	223.1	309.3	427.6	145°	426.0	425.0	426.0
93.0	98.0	104.8	118.3	133.5	152.1	199.4	282.3	405.6	147.5°	444.0	444.0	444.0
86.2	91.3	98.0	109.9	123.4	140.3	189.3	272.1	385.3	150°	462.0	461.0	462.0
81.1	86.2	93.0	106.5	114.9	135.2	184.2	256.9	365.1	152.5°	480.0	479.0	480.0
77.7	82.8	91.3	101.4	113.2	131.8	170.7	243.4	353.2	155°	500.0	499.0	500.0
74.4	79.4	89.6	98.0	114.9	125.1	162.3	233.2	343.1	157.5°	515.0	513.0	515.0
72.7	77.7	87.9	99.7	111.5	118.3	153.8	224.8	334.6	160°	527.0	525.0	527.0
71.0	76.1	86.2	109.9	106.5	113.2	147.0	218.0	329.6	162.5°	536.0	535.0	536.0
69.3	74.4	86.2	111.5	103.1	106.5	142.0	211.3	326.2	165°	547.0	546.0	547.0
65.9	72.7	86.2	103.1	96.3	103.1	131.8	201.1	317.7	167.5°	556.0	555.0	556.0
64.2	69.3	84.5	94.6	91.3	98.0	121.7	184.2	305.9	170°	563.0	562.0	563.0
62.5	67.6	84.5	84.5	86.2	93.0	109.9	163.9	285.6	172.5°	566.0	565.0	566.0
60.8	67.6	86.2	76.1	81.1	87.9	101.4	147.0	260.3	175°	569.0	567.0	569.0
59.2	64.2	74.4	72.7	77.7	82.8	98.0	135.2	238.3	177.5°	573.0	572.0	573.0
55.8	60.8	65.9	67.6	74.4	79.4	96.3	133.5	218.0	180°	576.0	576.0	576.0
50.7	55.8	59.2	64.2	69.3	76.1	96.3	131.8	202.8				
47.3	50.7	54.1	57.5	62.5	71.0	94.6	133.5	196.1				
40.6	43.9	47.3	50.7	55.8	65.9	89.6	125.1	175.8				
32.1	37.2	40.6	42.3	47.3	57.5	77.7	106.5	142.0				
23.7	28.7	30.4	33.8	37.2	43.9	60.8	77.7	104.8				
13.5	18.6	20.3	22.0	28.7	32.1	40.6	50.7	71.0				
5.1	8.5	10.1	11.8	16.9	18.6	25.4	32.1	37.2				
0.0	0.0	0.0	0.0	3.4	5.1	8.5	10.1	8.5				
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°	1181.4	1181.4	1181.4	1181.4
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	1238.9	1255.8	1277.7	1298.0
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	1167.9	1200.0	1247.3	1286.2
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	1024.2	1068.2	1127.3	1181.4
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	873.8	934.6	997.2	1066.5
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	750.4	819.7	890.7	976.9
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	698.0	758.9	841.7	936.3
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	676.1	753.8	848.4	948.2
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	652.4	758.9	885.6	1007.3
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	638.9	775.8	933.0	1103.7
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	635.5	814.6	1014.1	1240.6
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	638.9	858.6	1115.5	1387.6
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	623.7	904.2	1216.9	1516.0
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	598.3	938.0	1306.5	1619.1
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	569.6	953.2	1370.7	1715.5
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	539.2	954.9	1431.5	1816.9
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	522.3	948.2	1494.1	1942.0
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	515.5	936.3	1539.7	2036.6
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	515.5	924.5	1582.0	2107.6
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	517.2	929.6	1632.7	2222.5
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	525.6	987.0	1718.9	2349.3
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	539.2	1078.3	1867.6	2499.7
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	552.7	1171.3	2062.0	2751.5
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	564.5	1240.6	2251.3	3001.7
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	576.3	1294.6	2361.1	3113.2
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	569.6	1274.4	2391.5	3057.4
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	544.2	1167.9	2295.2	2864.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	474.9	982.0	1999.4	2560.5
								70°	393.8	770.7	1631.0	2180.3
								72.5°	331.3	576.3	1254.1	1688.4
								75°	275.5	407.3	882.2	1162.8
								77.5°	204.5	277.2	638.9	813.0
								80°	136.9	170.7	407.3	567.9
								82.5°	82.8	99.7	234.9	397.2
								85°	45.6	62.5	143.7	260.3
								87.5°	11.8	13.5	32.1	11.8
								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°
1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	135.5	135.0	136.0	137.0	135.0
1313.2	1326.8	1343.7	1343.7	1363.9	1370.7	1384.2	115°	158.0	158.0	159.0	160.0	159.0
1333.5	1379.1	1421.4	1445.1	1485.6	1512.7	1539.7	117.5°	180.5	180.0	181.0	182.0	180.0
1250.7	1325.1	1394.4	1458.6	1526.2	1583.7	1625.9	120°	204.0	204.0	205.0	206.0	204.0
1140.8	1220.3	1304.8	1391.0	1472.1	1553.2	1622.5	122.5°	228.5	229.0	231.0	233.0	232.0
1063.1	1147.6	1247.3	1321.7	1406.2	1487.3	1554.9	125°	254.0	254.0	255.5	257.0	256.0
1027.6	1113.8	1206.8	1282.8	1362.2	1428.2	1475.5	127.5°	277.5	278.0	279.5	281.0	278.0
1046.2	1151.0	1233.8	1298.0	1357.2	1387.6	1394.4	130°	301.5	302.0	303.5	305.0	303.0
1127.3	1237.2	1298.0	1340.3	1350.4	1348.7	1323.4	132.5°	325.5	326.0	327.5	329.0	327.0
1254.1	1382.5	1424.8	1416.3	1374.1	1320.0	1277.7	135°	348.5	349.0	350.0	351.0	350.0
1424.8	1553.2	1576.9	1529.6	1434.9	1330.1	1259.1	137.5°	369.5	370.0	372.0	374.0	372.0
1603.9	1735.8	1727.3	1656.3	1521.1	1374.1	1260.8	140°	391.0	392.0	394.0	396.0	394.0
1730.7	1840.6	1806.7	1700.3	1549.8	1402.8	1282.8	142.5°	412.5	413.0	414.5	416.0	415.0
1862.5	1945.3	1884.5	1769.6	1614.1	1463.7	1340.3	145°	433.5	434.0	435.5	437.0	435.0
2004.5	2048.4	1950.4	1833.8	1691.8	1539.7	1406.2	147.5°	452.5	453.0	454.5	456.0	453.0
2141.4	2160.0	2018.0	1892.9	1754.4	1617.5	1495.8	150°	469.0	469.0	471.0	473.0	470.0
2288.4	2263.1	2089.0	1942.0	1805.1	1700.3	1600.6	152.5°	486.0	486.0	487.5	489.0	486.0
2415.2	2359.4	2154.9	1991.0	1867.6	1779.7	1710.4	155°	503.5	504.0	505.5	507.0	505.0
2509.8	2437.2	2217.5	2038.3	1928.4	1874.4	1840.6	157.5°	517.5	518.0	520.5	523.0	520.0
2591.0	2511.5	2266.5	2107.6	2012.9	1992.7	2004.5	160°	530.0	530.0	531.5	533.0	531.0
2692.4	2591.0	2332.4	2185.3	2127.9	2148.2	2215.8	162.5°	539.0	538.0	539.0	540.0	537.0
2849.6	2717.7	2442.2	2296.9	2269.8	2342.5	2471.0	165°	549.0	548.0	549.0	550.0	548.0
3103.1	2947.6	2636.6	2491.3	2459.1	2570.7	2754.9	167.5°	558.5	559.0	561.0	563.0	561.0
3322.8	3204.5	2893.5	2717.7	2704.2	2824.2	3025.3	170°	565.0	566.0	568.5	571.0	569.0
3422.5	3410.7	3158.9	2996.6	2976.3	3087.9	3278.9	172.5°	567.5	568.0	569.5	571.0	568.0
3414.1	3512.1	3375.2	3260.3	3191.0	3283.9	3469.8	175°	569.0	568.0	569.5	571.0	568.0
3290.7	3451.2	3463.1	3436.0	3311.0	3317.7	3449.6	177.5°	574.0	574.0	575.5	577.0	574.0
3049.0	3240.0	3439.4	3431.0	3272.1	3131.8	3158.9	180°	576.0	576.0	576.0	576.0	576.0
2705.9	2869.8	3187.6	3251.8	3025.3	2763.4	2640.0						
2168.4	2359.4	2831.0	2920.5	2611.3	2242.8	2051.8						
1495.8	1747.6	2471.0	2479.4	2119.4	1764.5	1558.3						
1027.6	1243.9	1997.7	2019.7	1681.7	1338.6	1161.1						
691.3	833.2	1465.3	1372.4	1110.4	927.9	882.2						
436.1	518.9	921.1	860.3	731.8	669.3	686.2						
202.8	283.9	503.7	491.8	461.4	403.9	351.5						
5.1	15.2	98.0	64.2	64.2	37.2	13.5						
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						
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°	1181.4	1181.4	1181.4	1181.4	1181.4	1181.4
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1372.4	1377.5	1375.8	1363.9	1333.5	1321.7
182.0	181.0	180.0	180.5	181.0	180.5	5°	1538.0	1546.5	1536.3	1507.6	1429.9	1392.7
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	1654.6	1661.4	1644.5	1578.6	1440.0	1377.5
233.0	231.0	229.0	228.5	228.0	228.0	10°	1676.6	1691.8	1673.2	1578.6	1418.0	1340.3
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	1614.1	1646.2	1632.7	1563.4	1407.9	1325.1
281.0	279.5	278.0	277.5	277.0	277.5	15°	1517.7	1521.1	1529.6	1527.9	1389.3	1308.2
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1411.3	1407.9	1418.0	1450.1	1384.2	1320.0
329.0	327.5	326.0	325.5	325.0	325.0	20°	1314.9	1309.9	1320.0	1352.1	1363.9	1348.7
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	1254.1	1237.2	1235.5	1282.8	1374.1	1414.6
374.0	372.0	370.0	369.5	369.0	369.0	25°	1220.3	1201.7	1210.1	1264.2	1416.3	1492.4
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	1210.1	1189.9	1201.7	1262.5	1460.3	1587.0
416.0	414.5	413.0	412.5	412.0	412.0	30°	1216.9	1196.6	1201.7	1274.4	1482.2	1609.0
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	1255.8	1220.3	1216.9	1309.9	1522.8	1658.0
456.0	454.5	453.0	452.5	452.0	453.0	35°	1308.2	1257.5	1250.7	1367.3	1575.2	1720.6
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1396.0	1333.5	1323.4	1463.7	1646.2	1772.9
489.0	487.5	486.0	486.0	486.0	486.5	40°	1514.4	1451.8	1451.8	1587.0	1742.5	1845.6
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	1647.9	1607.3	1614.1	1735.8	1852.4	1936.9
523.0	520.5	518.0	517.5	517.0	518.0	45°	1825.3	1803.4	1837.2	1923.4	1963.9	2021.4
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	2033.2	2051.8	2099.1	2126.2	2077.2	2107.6
540.0	539.0	538.0	539.0	540.0	541.0	50°	2293.5	2342.5	2388.2	2381.4	2217.5	2207.3
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	2592.7	2656.9	2689.0	2651.8	2374.6	2315.5
563.0	561.0	559.0	558.5	558.0	559.0	55°	2896.9	2974.6	2964.5	2922.2	2545.3	2465.9
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	3172.4	3233.2	3260.3	3169.0	2753.2	2648.4
571.0	569.5	568.0	567.5	567.0	568.0	60°	3390.4	3456.3	3456.3	3366.7	2979.7	2858.0
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	3549.3	3601.7	3583.1	3496.9	3174.1	3081.1
577.0	575.5	574.0	574.0	574.0	575.5	65°	3537.4	3542.5	3522.2	3490.1	3290.7	3280.5
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	3204.5	3206.2	3246.7	3233.2	3202.8	3327.9
						70°	2626.5	2653.5	2722.8	2702.5	2858.0	3114.9
						72.5°	1999.4	2016.3	2099.1	2080.6	2291.8	2574.1
						75°	1455.2	1453.5	1489.0	1462.0	1729.0	2043.4
						77.5°	1120.6	1090.1	1083.4	1086.8	1225.3	1485.6
						80°	904.2	904.2	894.1	856.9	750.4	868.7
						82.5°	721.7	693.0	642.2	569.6	481.7	513.8
						85°	360.0	349.9	305.9	253.5	211.3	280.6
						87.5°	1.7	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°
1181.4	1181.4	1181.4	1181.4	1181.4	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1316.6	1303.1	1287.9	1287.9	1274.4	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1370.7	1343.7	1321.7	1301.4	1281.1	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1343.7	1311.5	1284.5	1249.0	1216.9	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
1303.1	1267.6	1228.7	1191.5	1145.9	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
1281.1	1238.9	1191.5	1152.7	1100.3	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
1264.2	1220.3	1178.0	1140.8	1095.2	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
1291.3	1249.0	1218.6	1176.3	1140.8	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1336.9	1311.5	1287.9	1260.8	1232.1	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1423.1	1419.7	1418.0	1397.7	1377.5	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1531.3	1544.8	1563.4	1563.4	1563.4	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
1642.8	1676.6	1712.1	1727.3	1737.5	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
1674.9	1723.9	1779.7	1816.9	1842.2	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
1727.3	1783.1	1845.6	1887.9	1933.5	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
1789.8	1838.9	1903.1	1960.6	2026.5	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
1842.2	1906.5	1975.8	2050.1	2134.6	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
1921.7	1989.3	2065.3	2165.1	2268.2	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
2009.6	2082.2	2161.7	2261.4	2381.4	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
2085.6	2149.8	2236.0	2339.1	2476.0	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
2158.3	2217.5	2318.9	2423.6	2558.9	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
2254.6	2300.3	2401.7	2521.7	2665.3	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
2354.4	2416.9	2528.4	2665.3	2825.9	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
2489.6	2563.9	2700.8	2856.3	3059.1	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
2675.5	2753.2	2898.6	3072.7	3280.5	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
2903.6	2979.7	3104.8	3277.2	3471.5	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
3116.6	3221.4	3334.6	3463.1	3616.9	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
3348.1	3429.3	3523.9	3572.9	3659.1	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
3415.8	3483.4	3566.2	3566.2	3556.0	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
3216.3	3319.4	3392.1	3392.1	3305.9								
2797.2	2969.6	3040.5	3084.5	2974.6								
2273.2	2487.9	2604.5	2641.7	2442.2								
1668.2	1805.1	1820.3	1825.3	1556.6								
961.7	1069.9	1108.7	1164.5	933.0								
557.7	598.3	664.2	687.9	567.9								
312.7	316.1	316.1	292.4	238.3								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
0.0	0.0	0.0	0.0	0.0								
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°	1181.4	1181.4	1181.4
149.0	148.5	148.0	147.5	2.5°	1271.0	1250.7	1254.1
172.0	171.5	171.0	170.5	5°	1252.4	1223.7	1213.5
196.0	195.8	195.5	195.2	7.5°	1188.2	1139.1	1123.9
221.0	220.8	220.5	220.2	10°	1110.4	1047.9	1036.0
247.0	246.8	246.5	246.2	12.5°	1066.5	995.5	980.3
270.0	269.8	269.5	269.2	15°	1053.0	985.3	968.4
293.0	292.8	292.5	292.2	17.5°	1093.5	1020.8	1000.6
317.0	316.2	315.5	314.8	20°	1186.5	1100.3	1076.6
339.0	338.5	338.0	337.5	22.5°	1325.1	1227.0	1198.3
363.0	362.2	361.5	360.8	25°	1512.7	1401.1	1372.4
385.0	384.5	384.0	383.5	27.5°	1705.3	1571.8	1534.6
408.0	407.5	407.0	406.5	30°	1816.9	1693.5	1656.3
428.0	427.5	427.0	426.5	32.5°	1930.1	1811.8	1767.9
447.0	446.2	445.5	444.8	35°	2050.1	1930.1	1886.2
464.0	463.5	463.0	462.5	37.5°	2190.4	2089.0	2050.1
483.0	482.2	481.5	480.8	40°	2357.7	2264.8	2209.0
502.0	501.5	501.0	500.5	42.5°	2496.3	2410.1	2357.7
517.0	516.5	516.0	515.5	45°	2597.7	2525.1	2471.0
529.0	528.5	528.0	527.5	47.5°	2690.7	2634.9	2580.8
539.0	538.2	537.5	536.8	50°	2807.3	2760.0	2722.8
549.0	548.5	548.0	547.5	52.5°	2964.5	2947.6	2915.5
559.0	558.2	557.5	556.8	55°	3196.0	3233.2	3187.6
566.0	565.2	564.5	563.8	57.5°	3415.8	3442.8	3422.5
569.0	568.2	567.5	566.8	60°	3588.1	3551.0	3525.6
570.0	569.8	569.5	569.2	62.5°	3676.0	3584.8	3542.5
575.0	574.5	574.0	573.5	65°	3681.1	3540.8	3476.6
576.0	576.0	576.0	576.0	67.5°	3566.2	3402.2	3327.9
				70°	3256.9	3067.6	2969.6
				72.5°	2736.3	2445.6	2379.7
				75°	2006.2	1649.6	1610.7
				77.5°	1215.2	948.2	897.5
				80°	684.5	544.2	527.3
				82.5°	388.7	305.9	322.8
				85°	158.9	79.4	87.9
				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°	8.0	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)