

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: P228661

Luminaire Tested: **ISC-AF-1000-LED-E1-SLR-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228661
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-8030-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) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5361.2 lumens
Efficiency: N/A
Efficacy: 75.2 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 - G1

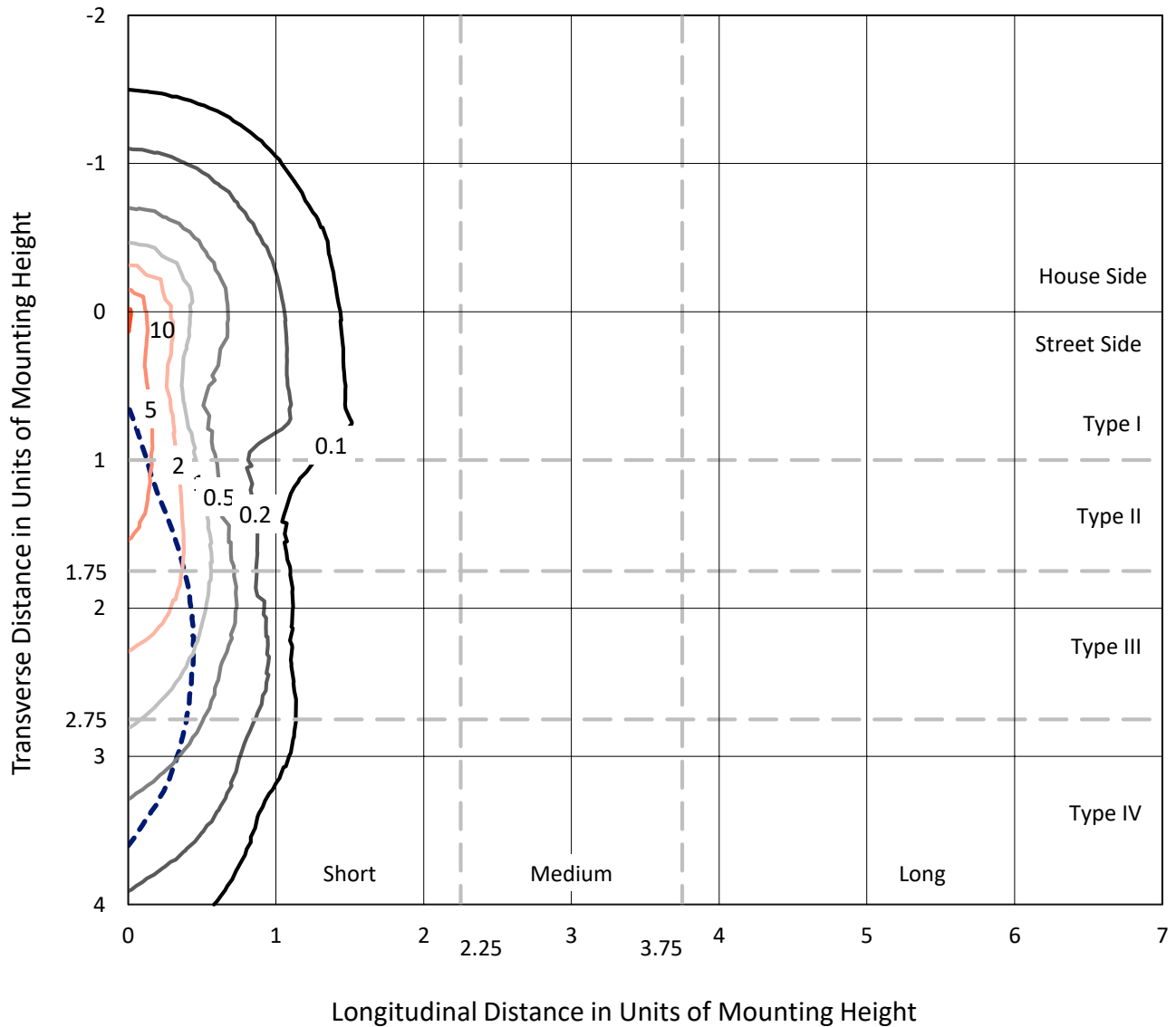
Input Watts (W): 71.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

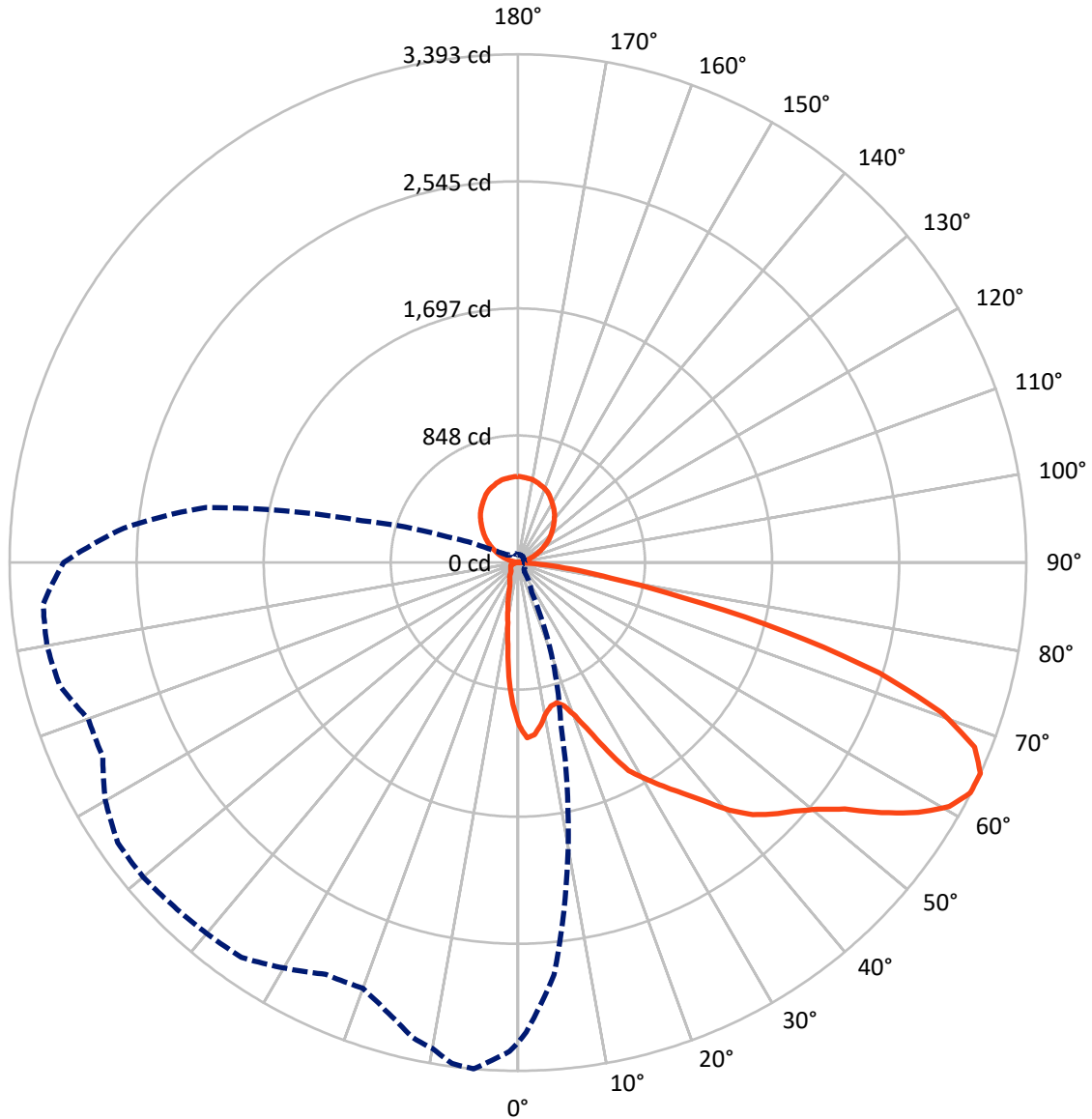
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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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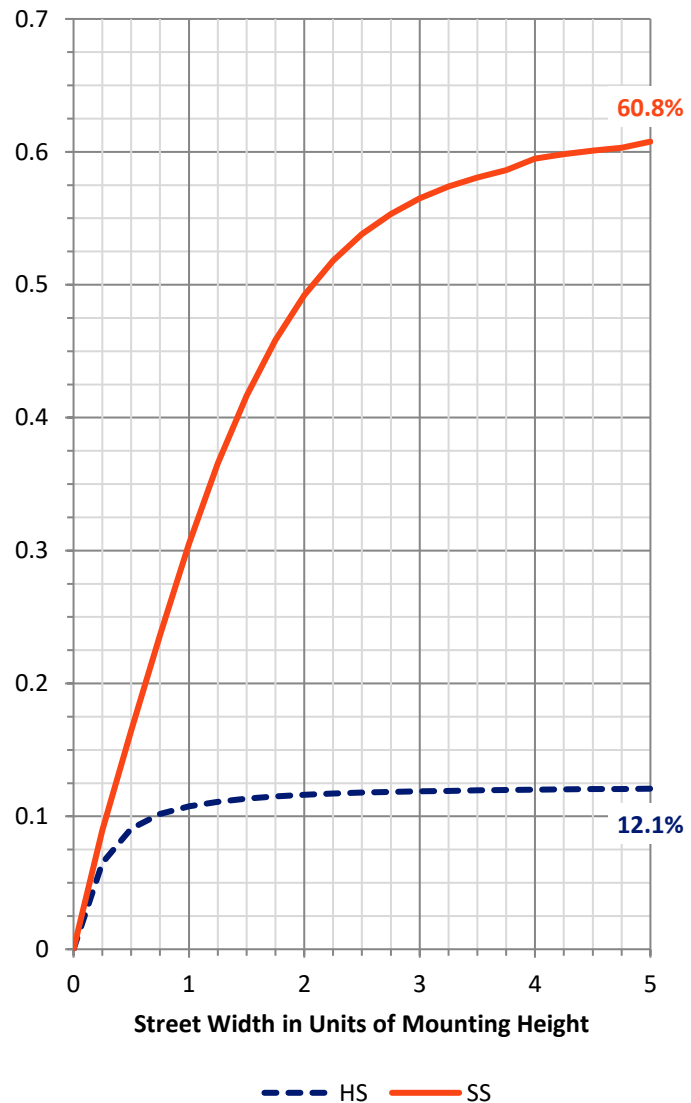
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.3	713.1	1367.4
	% Fixture	12.2	13.3	25.5
Street Side	Lumens	3280.7	713.1	3993.8
	% Fixture	61.2	13.3	74.5
Total	Lumens	3935.0	1426.2	5361.2
	% Fixture	73.4	26.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	1.6
10°-20°	172.3	3.2
20°-30°	250.5	4.7
30°-40°	370.4	6.9
40°-50°	539.8	10.1
50°-60°	809.1	15.1
60°-70°	1008.3	18.8
70°-80°	590.6	11.0
80°-90°	110.4	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.9
120°-130°	223.9	4.2
130°-140°	265.6	5.0
140°-150°	269.3	5.0
150°-160°	231.1	4.3
160°-170°	155.1	2.9
170°-180°	54.3	1.0
0°-90°	3935.0	73.4
0°-180°	5361.2	100.0



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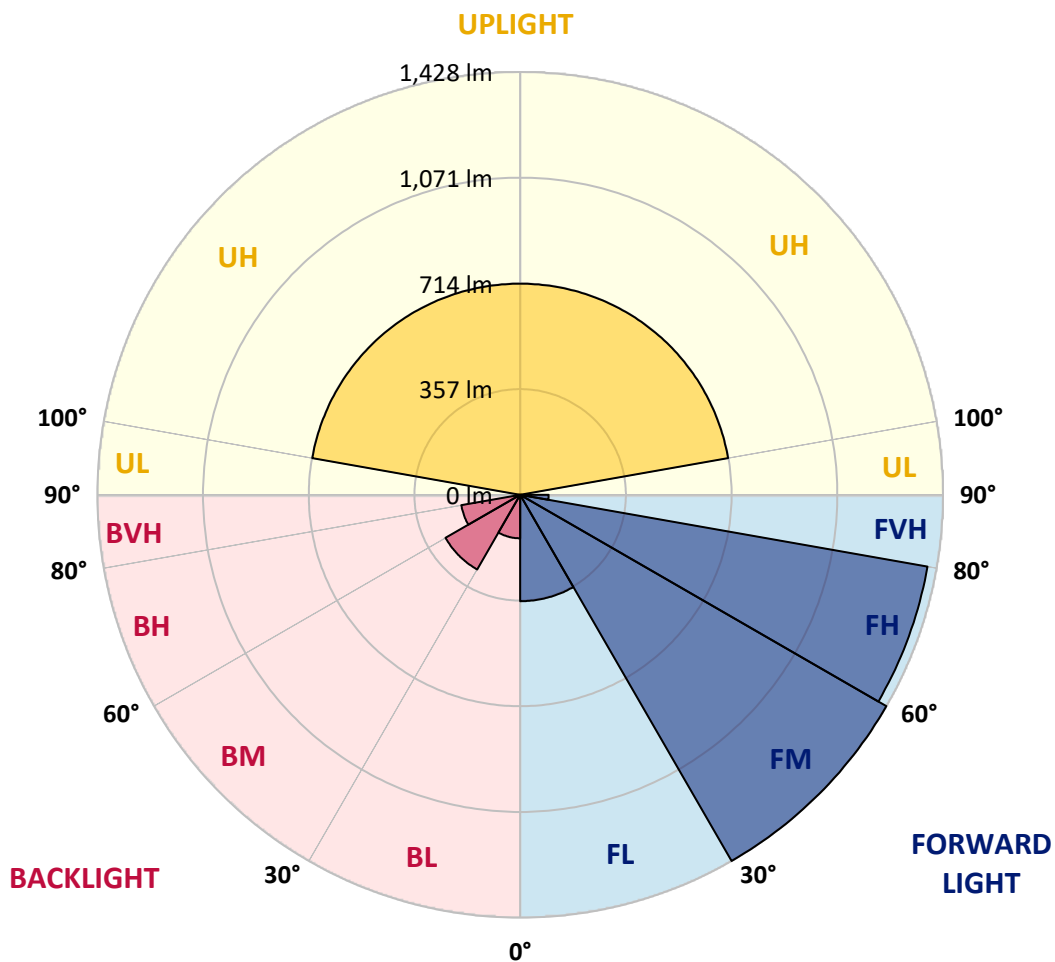
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.5	6.7			
FM	(30°-60°)	1428.1	26.6			
FH	(60°-80°)	1396.9	26.1			G1/1800
FVH	(80°-90°)	96.2	1.8			G1/100
BL	(0°-30°)	146.9	2.7	B1/500		
BM	(30°-60°)	291.2	5.4	B1/1000		
BH	(60°-80°)	202.0	3.8	B1/500		G1/500
BVH	(80°-90°)	14.2	0.3			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	13.3		U4/1000	

BUG Rating: B1-U5-G1

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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1156.0	1146.6	1127.9	1090.5	1051.6	1014.2	1008.0	993.9	995.5	987.7	984.6
5°	1118.6	1106.1	1067.2	989.3	922.3	853.7	849.1	821.0	824.1	807.0	797.6
7.5°	1036.0	1018.9	975.2	867.7	774.3	683.9	674.6	641.9	637.2	620.0	606.0
10°	955.0	937.9	883.3	760.3	652.8	585.8	574.9	559.3	546.8	539.0	525.0
12.5°	903.6	894.2	828.8	687.0	602.9	548.4	534.4	518.8	506.3	492.3	478.3
15°	892.7	874.0	807.0	663.7	565.5	498.5	481.4	464.3	450.2	436.2	416.0
17.5°	922.3	903.6	828.8	652.8	523.5	442.4	420.6	397.3	383.2	366.1	344.3
20°	992.4	962.8	870.9	637.2	478.3	377.0	350.5	322.5	306.9	277.3	261.7
22.5°	1104.5	1067.2	942.5	637.2	436.2	308.5	278.9	253.9	236.8	210.3	193.2
25°	1265.0	1232.3	1059.4	654.3	398.8	250.8	221.2	196.3	179.2	160.5	149.6
27.5°	1414.6	1363.2	1184.0	679.2	369.2	210.3	180.7	160.5	148.0	138.7	132.4
30°	1526.7	1484.7	1293.1	696.4	325.6	176.0	157.3	144.9	138.7	134.0	130.9
32.5°	1629.6	1581.3	1370.9	707.3	299.1	149.6	132.4	123.1	116.8	110.6	109.1
35°	1738.6	1691.9	1462.9	705.7	282.0	137.1	120.0	109.1	102.8	101.3	98.1
37.5°	1889.7	1825.9	1568.8	705.7	275.7	132.4	112.2	101.3	96.6	93.5	91.9
40°	2036.2	1964.5	1685.6	710.4	269.5	129.3	112.2	101.3	93.5	90.4	87.2
42.5°	2173.3	2093.8	1791.6	718.2	266.4	120.0	105.9	99.7	96.6	90.4	85.7
45°	2277.6	2215.3	1874.2	733.8	266.4	113.7	99.7	95.0	93.5	93.5	91.9
47.5°	2378.9	2308.8	1969.2	763.4	271.1	109.1	95.0	88.8	88.8	88.8	90.4
50°	2509.8	2427.2	2100.0	824.1	271.1	107.5	90.4	84.1	82.6	85.7	85.7
52.5°	2687.4	2628.2	2291.7	911.4	268.0	105.9	88.8	79.5	77.9	79.5	82.6
55°	2938.2	2871.2	2523.8	1018.9	264.8	102.8	85.7	77.9	74.8	73.2	74.8
57.5°	3154.7	3097.1	2737.2	1104.5	257.1	95.0	82.6	76.3	71.7	70.1	68.5
60°	3249.8	3201.5	2874.3	1162.2	243.0	87.2	77.9	73.2	68.5	67.0	65.4
62.5°	3265.4	3204.6	2875.9	1174.7	227.5	79.5	73.2	68.5	65.4	63.9	62.3
65°	3204.6	3136.0	2762.2	1098.3	215.0	79.5	70.1	65.4	60.8	59.2	57.6
67.5°	3067.5	2961.6	2473.9	931.6	204.1	81.0	68.5	60.8	57.6	56.1	54.5
70°	2737.2	2618.8	2089.1	740.0	199.4	82.6	68.5	57.6	53.0	51.4	51.4
72.5°	2193.5	2058.0	1629.6	557.7	191.6	84.1	67.0	54.5	49.9	46.7	46.7
75°	1484.7	1366.3	1104.5	377.0	158.9	73.2	60.8	49.9	43.6	40.5	38.9
77.5°	827.2	788.3	702.6	199.4	101.3	54.5	46.7	40.5	35.8	34.3	32.7
80°	486.1	465.8	414.4	110.6	62.3	31.2	28.0	26.5	23.4	23.4	23.4
82.5°	297.6	277.3	257.1	49.9	29.6	15.6	15.6	12.5	12.5	10.9	10.9
85°	81.0	74.8	104.4	10.9	3.1	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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	972.1	969.0	969.0	945.6	945.6	933.2	930.1	930.1	934.7	931.6	912.9
5°	782.1	772.7	766.5	738.4	730.7	716.6	710.4	708.8	713.5	705.7	680.8
7.5°	588.9	581.1	571.7	549.9	540.6	539.0	520.3	515.7	512.5	506.3	490.7
10°	514.1	503.2	495.4	479.8	468.9	461.1	445.6	437.8	431.5	422.2	417.5
12.5°	462.7	451.8	440.9	420.6	406.6	397.3	387.9	372.3	366.1	355.2	349.0
15°	398.8	386.4	373.9	352.1	333.4	324.0	305.3	296.0	289.8	277.3	271.1
17.5°	320.9	303.8	289.8	269.5	260.2	244.6	233.7	218.1	205.6	201.0	196.3
20°	241.5	225.9	213.4	196.3	186.9	174.5	168.3	157.3	151.1	148.0	144.9
22.5°	177.6	165.1	157.3	148.0	143.3	138.7	135.5	132.4	129.3	127.7	127.7
25°	140.2	135.5	132.4	129.3	127.7	126.2	123.1	121.5	120.0	118.4	118.4
27.5°	127.7	124.6	123.1	121.5	120.0	116.8	116.8	113.7	112.2	112.2	110.6
30°	129.3	129.3	129.3	126.2	124.6	121.5	120.0	115.3	112.2	109.1	107.5
32.5°	105.9	105.9	104.4	101.3	99.7	98.1	98.1	95.0	93.5	93.5	96.6
35°	96.6	95.0	93.5	90.4	88.8	85.7	84.1	82.6	81.0	79.5	79.5
37.5°	91.9	90.4	88.8	85.7	84.1	82.6	81.0	77.9	76.3	76.3	74.8
40°	87.2	87.2	87.2	84.1	82.6	79.5	77.9	76.3	74.8	73.2	73.2
42.5°	84.1	84.1	84.1	82.6	81.0	79.5	76.3	74.8	73.2	71.7	70.1
45°	85.7	84.1	84.1	82.6	81.0	77.9	76.3	73.2	71.7	70.1	68.5
47.5°	91.9	90.4	87.2	84.1	81.0	77.9	74.8	71.7	70.1	68.5	67.0
50°	87.2	93.5	95.0	90.4	82.6	77.9	74.8	71.7	68.5	67.0	65.4
52.5°	85.7	87.2	93.5	93.5	85.7	79.5	74.8	71.7	68.5	65.4	63.9
55°	77.9	82.6	84.1	85.7	84.1	77.9	73.2	68.5	67.0	63.9	60.8
57.5°	68.5	71.7	73.2	76.3	77.9	76.3	70.1	65.4	63.9	60.8	57.6
60°	63.9	63.9	63.9	65.4	73.2	79.5	73.2	63.9	59.2	57.6	54.5
62.5°	59.2	59.2	57.6	59.2	60.8	68.5	67.0	60.8	57.6	56.1	53.0
65°	57.6	56.1	54.5	54.5	54.5	54.5	54.5	54.5	53.0	53.0	51.4
67.5°	53.0	51.4	51.4	49.9	49.9	49.9	49.9	49.9	48.3	48.3	46.7
70°	49.9	48.3	46.7	46.7	46.7	45.2	45.2	45.2	43.6	43.6	43.6
72.5°	45.2	43.6	43.6	43.6	42.1	42.1	42.1	40.5	40.5	38.9	38.9
75°	38.9	38.9	37.4	37.4	37.4	35.8	35.8	35.8	35.8	34.3	34.3
77.5°	32.7	31.2	32.7	31.2	31.2	31.2	31.2	31.2	29.6	29.6	28.0
80°	21.8	21.8	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	21.8
82.5°	12.5	10.9	12.5	12.5	12.5	14.0	14.0	15.6	14.0	14.0	12.5
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.1	3.1	3.1	3.1
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-8030-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: P228661

CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	922.3	920.7	905.1	908.3	903.6	894.2	895.8	897.3	900.5	894.2	891.1
5°	693.3	694.8	674.6	680.8	676.1	674.6	679.2	687.0	691.7	690.1	685.5
7.5°	492.3	493.9	476.7	475.2	470.5	468.9	475.2	482.9	487.6	486.1	487.6
10°	406.6	401.9	386.4	375.5	364.5	355.2	353.6	353.6	353.6	350.5	347.4
12.5°	336.5	331.8	313.1	303.8	294.4	282.0	280.4	278.9	274.2	269.5	263.3
15°	261.7	257.1	241.5	235.2	227.5	222.8	221.2	221.2	218.1	215.0	211.9
17.5°	190.1	186.9	177.6	171.4	169.8	171.4	172.9	176.0	177.6	179.2	179.2
20°	143.3	141.8	138.7	138.7	140.2	144.9	146.4	151.1	152.7	155.8	158.9
22.5°	126.2	126.2	124.6	124.6	127.7	132.4	135.5	137.1	138.7	140.2	140.2
25°	116.8	116.8	115.3	118.4	123.1	123.1	123.1	123.1	120.0	118.4	118.4
27.5°	110.6	110.6	110.6	112.2	110.6	109.1	109.1	109.1	107.5	107.5	105.9
30°	105.9	105.9	105.9	104.4	104.4	102.8	102.8	101.3	101.3	99.7	99.7
32.5°	98.1	95.0	98.1	95.0	95.0	93.5	95.0	95.0	91.9	91.9	91.9
35°	77.9	76.3	76.3	76.3	74.8	76.3	79.5	79.5	79.5	79.5	79.5
37.5°	73.2	73.2	71.7	70.1	70.1	68.5	70.1	68.5	68.5	68.5	70.1
40°	71.7	70.1	68.5	68.5	67.0	65.4	65.4	65.4	65.4	65.4	65.4
42.5°	68.5	68.5	65.4	63.9	63.9	62.3	62.3	62.3	62.3	62.3	62.3
45°	67.0	65.4	63.9	62.3	60.8	60.8	60.8	60.8	60.8	60.8	59.2
47.5°	65.4	63.9	62.3	60.8	59.2	57.6	57.6	57.6	57.6	57.6	57.6
50°	63.9	62.3	59.2	59.2	57.6	56.1	56.1	56.1	56.1	56.1	56.1
52.5°	60.8	60.8	57.6	56.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5
55°	57.6	57.6	54.5	53.0	51.4	51.4	51.4	51.4	53.0	53.0	53.0
57.5°	56.1	54.5	51.4	51.4	48.3	48.3	48.3	49.9	49.9	51.4	51.4
60°	53.0	51.4	49.9	48.3	48.3	46.7	46.7	46.7	46.7	48.3	48.3
62.5°	51.4	49.9	46.7	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
65°	48.3	48.3	45.2	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
67.5°	45.2	45.2	42.1	40.5	40.5	40.5	42.1	40.5	40.5	40.5	40.5
70°	42.1	40.5	38.9	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
72.5°	37.4	37.4	35.8	34.3	34.3	34.3	34.3	34.3	34.3	34.3	35.8
75°	32.7	31.2	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
77.5°	28.0	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	26.5
80°	20.3	18.7	18.7	18.7	18.7	20.3	20.3	20.3	20.3	20.3	20.3
82.5°	12.5	10.9	10.9	10.9	12.5	14.0	14.0	14.0	14.0	15.6	15.6
85°	3.1	3.1	3.1	3.1	6.2	7.8	7.8	7.8	9.3	7.8	7.8
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°	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
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	136.0
888.0	906.7	906.7	894.2	900.5	894.2	892.7	903.6	909.8	930.1	942.5	115°	158.0
687.0	710.4	712.0	705.7	713.5	708.8	713.5	727.5	738.4	752.5	764.9	117.5°	181.0
490.7	512.5	517.2	512.5	526.6	525.0	528.1	543.7	553.1	560.8	562.4	120°	204.0
345.9	349.0	361.4	358.3	367.7	366.1	370.8	383.2	395.7	400.4	403.5	122.5°	228.0
260.2	257.1	261.7	255.5	260.2	260.2	261.7	269.5	285.1	291.3	306.9	125°	254.0
210.3	207.2	207.2	204.1	204.1	202.5	204.1	210.3	221.2	230.6	243.0	127.5°	277.0
179.2	179.2	179.2	177.6	176.0	176.0	177.6	180.7	186.9	193.2	199.4	130°	301.0
160.5	163.6	165.1	166.7	168.3	169.8	171.4	176.0	174.5	168.3	160.5	132.5°	325.0
140.2	140.2	141.8	141.8	140.2	140.2	140.2	140.2	140.2	144.9	149.6	135°	348.0
116.8	116.8	116.8	118.4	116.8	116.8	118.4	118.4	120.0	123.1	127.7	137.5°	369.0
105.9	105.9	105.9	105.9	105.9	105.9	105.9	107.5	109.1	113.7	116.8	140°	390.0
98.1	98.1	96.6	96.6	96.6	95.0	96.6	96.6	98.1	104.4	109.1	142.5°	412.0
90.4	88.8	88.8	88.8	87.2	87.2	87.2	90.4	91.9	95.0	99.7	145°	433.0
79.5	79.5	79.5	81.0	81.0	81.0	81.0	84.1	84.1	85.7	85.7	147.5°	452.0
71.7	71.7	73.2	74.8	74.8	76.3	76.3	77.9	79.5	77.9	76.3	150°	469.0
65.4	67.0	67.0	70.1	70.1	70.1	71.7	73.2	74.8	71.7	71.7	152.5°	486.0
62.3	62.3	62.3	63.9	63.9	63.9	65.4	67.0	68.5	68.5	68.5	155°	503.0
59.2	59.2	59.2	60.8	59.2	59.2	59.2	60.8	63.9	63.9	65.4	157.5°	517.0
57.6	57.6	57.6	56.1	56.1	56.1	56.1	57.6	59.2	62.3	63.9	160°	530.0
56.1	54.5	54.5	54.5	54.5	54.5	54.5	56.1	57.6	59.2	62.3	162.5°	540.0
53.0	53.0	53.0	53.0	53.0	53.0	53.0	54.5	56.1	57.6	59.2	165°	550.0
53.0	53.0	51.4	51.4	53.0	53.0	53.0	54.5	56.1	57.6	57.6	167.5°	558.0
51.4	49.9	49.9	51.4	51.4	51.4	51.4	53.0	54.5	56.1	56.1	170°	564.0
48.3	48.3	48.3	48.3	49.9	49.9	51.4	53.0	53.0	54.5	54.5	172.5°	567.0
45.2	46.7	46.7	46.7	48.3	48.3	49.9	51.4	53.0	54.5	53.0	175°	570.0
43.6	45.2	45.2	45.2	46.7	46.7	46.7	49.9	51.4	51.4	53.0	177.5°	574.0
42.1	42.1	42.1	43.6	43.6	45.2	45.2	48.3	48.3	49.9	51.4	180°	576.0
38.9	38.9	38.9	40.5	40.5	42.1	43.6	45.2	45.2	46.7	48.3		
35.8	35.8	35.8	37.4	37.4	38.9	40.5	43.6	42.1	43.6	43.6		
31.2	31.2	32.7	32.7	34.3	35.8	37.4	37.4	37.4	37.4	37.4		
26.5	26.5	28.0	28.0	29.6	31.2	31.2	31.2	32.7	31.2	31.2		
21.8	21.8	23.4	23.4	23.4	23.4	24.9	23.4	24.9	23.4	24.9		
15.6	15.6	17.1	15.6	17.1	15.6	15.6	14.0	17.1	15.6	15.6		
6.2	7.8	7.8	7.8	7.8	6.2	6.2	4.7	6.2	6.2	4.7		
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		

'228661
 ISC-AF-1000-LED-E1-SLR-8030-ULG

REPORT NUMBER: P228661
 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°	1089.0	1089.0
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	947.2	945.6
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	766.5	763.4
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	548.4	542.1
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	405.1	409.7
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	324.0	342.7
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	260.2	271.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	201.0	205.6
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	160.5	160.5
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	140.2	138.7
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	132.4	130.9
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	120.0	121.5
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	112.2	113.7
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	102.8	104.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	84.1	84.1
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	77.9	77.9
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	73.2	74.8
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	70.1	70.1
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	67.0	68.5
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	65.4	65.4
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	62.3	63.9
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	60.8	62.3
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	59.2	59.2
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	56.1	57.6
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	56.1	56.1
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	54.5	54.5
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	53.0	53.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	49.9	49.9
										70°	46.7	46.7
										72.5°	43.6	42.1
										75°	37.4	37.4
										77.5°	31.2	31.2
										80°	23.4	21.8
										82.5°	14.0	12.5
										85°	4.7	4.7
										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°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	124.0	124.0	124.0
969.0	986.1	997.1	1039.1	1057.8	1081.2	1092.1	1107.7	1123.2	115°	147.0	146.0	147.0
791.4	813.2	831.9	892.7	928.5	961.2	987.7	1012.6	1048.5	117.5°	170.0	169.0	170.0
560.8	579.5	604.5	669.9	732.2	775.8	814.8	856.8	903.6	120°	195.0	193.0	195.0
428.4	456.5	489.2	539.0	588.9	620.0	654.3	701.1	757.1	122.5°	220.0	219.0	220.0
358.3	392.6	431.5	487.6	540.6	565.5	590.4	613.8	643.4	125°	246.0	244.0	246.0
283.5	316.3	363.0	428.4	490.7	518.8	548.4	576.4	602.9	127.5°	269.0	267.0	269.0
211.9	235.2	277.3	355.2	423.7	459.6	493.9	532.8	568.6	130°	292.0	290.0	292.0
162.0	172.9	202.5	263.3	347.4	392.6	436.2	486.1	537.5	132.5°	314.0	313.0	314.0
140.2	144.9	158.9	194.7	271.1	324.0	380.1	442.4	506.3	135°	337.0	336.0	337.0
129.3	132.4	140.2	157.3	211.9	268.0	325.6	400.4	478.3	137.5°	360.0	359.0	360.0
123.1	126.2	132.4	141.8	176.0	218.1	282.0	364.5	458.0	140°	383.0	382.0	383.0
115.3	118.4	129.3	140.2	160.5	186.9	241.5	322.5	426.9	142.5°	406.0	404.0	406.0
105.9	107.5	110.6	123.1	137.1	158.9	205.6	285.1	394.1	145°	426.0	425.0	426.0
85.7	90.4	96.6	109.1	123.1	140.2	183.8	260.2	373.9	147.5°	444.0	444.0	444.0
79.5	84.1	90.4	101.3	113.7	129.3	174.5	250.8	355.2	150°	462.0	461.0	462.0
74.8	79.5	85.7	98.1	105.9	124.6	169.8	236.8	336.5	152.5°	480.0	479.0	480.0
71.7	76.3	84.1	93.5	104.4	121.5	157.3	224.3	325.6	155°	500.0	499.0	500.0
68.5	73.2	82.6	90.4	105.9	115.3	149.6	215.0	316.3	157.5°	515.0	513.0	515.0
67.0	71.7	81.0	91.9	102.8	109.1	141.8	207.2	308.5	160°	527.0	525.0	527.0
65.4	70.1	79.5	101.3	98.1	104.4	135.5	201.0	303.8	162.5°	536.0	535.0	536.0
63.9	68.5	79.5	102.8	95.0	98.1	130.9	194.7	300.7	165°	547.0	546.0	547.0
60.8	67.0	79.5	95.0	88.8	95.0	121.5	185.4	292.9	167.5°	556.0	555.0	556.0
59.2	63.9	77.9	87.2	84.1	90.4	112.2	169.8	282.0	170°	563.0	562.0	563.0
57.6	62.3	77.9	77.9	79.5	85.7	101.3	151.1	263.3	172.5°	566.0	565.0	566.0
56.1	62.3	79.5	70.1	74.8	81.0	93.5	135.5	239.9	175°	569.0	567.0	569.0
54.5	59.2	68.5	67.0	71.7	76.3	90.4	124.6	219.7	177.5°	573.0	572.0	573.0
51.4	56.1	60.8	62.3	68.5	73.2	88.8	123.1	201.0	180°	576.0	576.0	576.0
46.7	51.4	54.5	59.2	63.9	70.1	88.8	121.5	186.9				
43.6	46.7	49.9	53.0	57.6	65.4	87.2	123.1	180.7				
37.4	40.5	43.6	46.7	51.4	60.8	82.6	115.3	162.0				
29.6	34.3	37.4	38.9	43.6	53.0	71.7	98.1	130.9				
21.8	26.5	28.0	31.2	34.3	40.5	56.1	71.7	96.6				
12.5	17.1	18.7	20.3	26.5	29.6	37.4	46.7	65.4				
4.7	7.8	9.3	10.9	15.6	17.1	23.4	29.6	34.3				
0.0	0.0	0.0	0.0	3.1	4.7	7.8	9.3	7.8				
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				
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°	1089.0	1089.0	1089.0	1089.0
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	1141.9	1157.5	1177.8	1196.5
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	1076.5	1106.1	1149.7	1185.6
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	944.1	984.6	1039.1	1089.0
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	805.4	861.5	919.2	983.0
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	691.7	755.6	821.0	900.5
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	643.4	699.5	775.8	863.1
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	623.2	694.8	782.1	874.0
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	601.3	699.5	816.3	928.5
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	588.9	715.1	860.0	1017.3
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	585.8	750.9	934.7	1143.5
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	588.9	791.4	1028.2	1279.0
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	574.9	833.5	1121.7	1397.4
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	551.5	864.6	1204.3	1492.5
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	525.0	878.7	1263.5	1581.3
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	497.0	880.2	1319.5	1674.7
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	481.4	874.0	1377.2	1790.0
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	475.2	863.1	1419.2	1877.3
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	475.2	852.2	1458.2	1942.7
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	476.7	856.8	1504.9	2048.6
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	484.5	909.8	1584.4	2165.5
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	497.0	993.9	1721.5	2304.1
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	509.4	1079.6	1900.6	2536.3
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	520.3	1143.5	2075.1	2766.8
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	531.2	1193.3	2176.4	2869.6
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	525.0	1174.7	2204.4	2818.2
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	501.6	1076.5	2115.6	2640.6
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	437.8	905.1	1843.0	2360.2
								70°	363.0	710.4	1503.4	2009.7
								72.5°	305.3	531.2	1156.0	1556.3
								75°	253.9	375.5	813.2	1071.8
								77.5°	188.5	255.5	588.9	749.3
								80°	126.2	157.3	375.5	523.5
								82.5°	76.3	91.9	216.5	366.1
								85°	42.1	57.6	132.4	239.9
								87.5°	10.9	12.5	29.6	10.9
								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°
1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	135.5	135.0	136.0	137.0	135.0
1210.5	1222.9	1238.5	1238.5	1257.2	1263.5	1275.9	115°	158.0	158.0	159.0	160.0	159.0
1229.2	1271.2	1310.2	1332.0	1369.4	1394.3	1419.2	117.5°	180.5	180.0	181.0	182.0	180.0
1152.8	1221.4	1285.3	1344.5	1406.8	1459.7	1498.7	120°	204.0	204.0	205.0	206.0	204.0
1051.6	1124.8	1202.7	1282.1	1356.9	1431.7	1495.6	122.5°	228.5	229.0	231.0	233.0	232.0
979.9	1057.8	1149.7	1218.3	1296.2	1370.9	1433.3	125°	254.0	254.0	255.5	257.0	256.0
947.2	1026.7	1112.3	1182.4	1255.7	1316.4	1360.0	127.5°	277.5	278.0	279.5	281.0	278.0
964.3	1060.9	1137.3	1196.5	1251.0	1279.0	1285.3	130°	301.5	302.0	303.5	305.0	303.0
1039.1	1140.4	1196.5	1235.4	1244.8	1243.2	1219.8	132.5°	325.5	326.0	327.5	329.0	327.0
1156.0	1274.4	1313.3	1305.5	1266.6	1216.7	1177.8	135°	348.5	349.0	350.0	351.0	350.0
1313.3	1431.7	1453.5	1409.9	1322.7	1226.1	1160.6	137.5°	369.5	370.0	372.0	374.0	372.0
1478.4	1600.0	1592.2	1526.7	1402.1	1266.6	1162.2	140°	391.0	392.0	394.0	396.0	394.0
1595.3	1696.5	1665.4	1567.2	1428.6	1293.1	1182.4	142.5°	412.5	413.0	414.5	416.0	415.0
1716.8	1793.1	1737.1	1631.1	1487.8	1349.1	1235.4	145°	433.5	434.0	435.5	437.0	435.0
1847.7	1888.2	1797.8	1690.3	1559.5	1419.2	1296.2	147.5°	452.5	453.0	454.5	456.0	453.0
1973.9	1991.0	1860.1	1744.8	1617.1	1490.9	1378.7	150°	469.0	469.0	471.0	473.0	470.0
2109.4	2086.0	1925.6	1790.0	1663.8	1567.2	1475.3	152.5°	486.0	486.0	487.5	489.0	486.0
2226.2	2174.8	1986.3	1835.2	1721.5	1640.5	1576.6	155°	503.5	504.0	505.5	507.0	505.0
2313.5	2246.5	2044.0	1878.8	1777.6	1727.7	1696.5	157.5°	517.5	518.0	520.5	523.0	520.0
2388.3	2315.0	2089.1	1942.7	1855.5	1836.8	1847.7	160°	530.0	530.0	531.5	533.0	531.0
2481.7	2388.3	2149.9	2014.4	1961.4	1980.1	2042.4	162.5°	539.0	538.0	539.0	540.0	537.0
2626.6	2505.1	2251.2	2117.2	2092.3	2159.2	2277.6	165°	549.0	548.0	549.0	550.0	548.0
2860.3	2717.0	2430.3	2296.3	2266.7	2369.6	2539.4	167.5°	558.5	559.0	561.0	563.0	561.0
3062.8	2953.8	2667.1	2505.1	2492.6	2603.2	2788.6	170°	565.0	566.0	568.5	571.0	569.0
3154.7	3143.8	2911.7	2762.2	2743.5	2846.3	3022.3	172.5°	567.5	568.0	569.5	571.0	568.0
3147.0	3237.3	3111.1	3005.2	2941.3	3027.0	3198.4	175°	569.0	568.0	569.5	571.0	568.0
3033.2	3181.2	3192.1	3167.2	3051.9	3058.2	3179.7	177.5°	574.0	574.0	575.5	577.0	574.0
2810.4	2986.5	3170.3	3162.5	3016.1	2886.8	2911.7	180°	576.0	576.0	576.0	576.0	576.0
2494.2	2645.3	2938.2	2997.4	2788.6	2547.2	2433.4						
1998.8	2174.8	2609.5	2692.0	2407.0	2067.3	1891.3						
1378.7	1610.9	2277.6	2285.4	1953.6	1626.4	1436.4						
947.2	1146.6	1841.4	1861.7	1550.1	1233.9	1070.3						
637.2	768.0	1350.7	1265.0	1023.5	855.3	813.2						
401.9	478.3	849.1	793.0	674.6	616.9	632.5						
186.9	261.7	464.3	453.3	425.3	372.3	324.0						
4.7	14.0	90.4	59.2	59.2	34.3	12.5						
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°	1089.0	1089.0	1089.0	1089.0	1089.0	1089.0
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1265.0	1269.7	1268.1	1257.2	1229.2	1218.3
182.0	181.0	180.0	180.5	181.0	180.5	5°	1417.7	1425.5	1416.1	1389.6	1318.0	1283.7
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	1525.2	1531.4	1515.8	1455.1	1327.3	1269.7
233.0	231.0	229.0	228.5	228.0	228.0	10°	1545.4	1559.5	1542.3	1455.1	1307.1	1235.4
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	1487.8	1517.4	1504.9	1441.1	1297.7	1221.4
281.0	279.5	278.0	277.5	277.0	277.5	15°	1399.0	1402.1	1409.9	1408.3	1280.6	1205.8
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1300.8	1297.7	1307.1	1336.7	1275.9	1216.7
329.0	327.5	326.0	325.5	325.0	325.0	20°	1212.0	1207.4	1216.7	1246.3	1257.2	1243.2
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	1156.0	1140.4	1138.8	1182.4	1266.6	1304.0
374.0	372.0	370.0	369.5	369.0	369.0	25°	1124.8	1107.7	1115.5	1165.3	1305.5	1375.6
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	1115.5	1096.8	1107.7	1163.7	1346.0	1462.9
416.0	414.5	413.0	412.5	412.0	412.0	30°	1121.7	1103.0	1107.7	1174.7	1366.3	1483.1
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	1157.5	1124.8	1121.7	1207.4	1403.7	1528.3
456.0	454.5	453.0	452.5	452.0	453.0	35°	1205.8	1159.1	1152.8	1260.3	1452.0	1585.9
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1286.8	1229.2	1219.8	1349.1	1517.4	1634.2
489.0	487.5	486.0	486.0	486.0	486.5	40°	1395.9	1338.2	1338.2	1462.9	1606.2	1701.2
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	1518.9	1481.6	1487.8	1600.0	1707.5	1785.3
523.0	520.5	518.0	517.5	517.0	518.0	45°	1682.5	1662.3	1693.4	1772.9	1810.3	1863.2
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	1874.2	1891.3	1934.9	1959.8	1914.7	1942.7
540.0	539.0	538.0	539.0	540.0	541.0	50°	2114.1	2159.2	2201.3	2195.1	2044.0	2034.6
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	2389.8	2449.0	2478.6	2444.3	2188.8	2134.3
563.0	561.0	559.0	558.5	558.0	559.0	55°	2670.2	2741.9	2732.6	2693.6	2346.2	2273.0
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	2924.2	2980.3	3005.2	2921.1	2537.8	2441.2
571.0	569.5	568.0	567.5	567.0	568.0	60°	3125.1	3185.9	3185.9	3103.3	2746.6	2634.4
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	3271.6	3319.9	3302.7	3223.3	2925.7	2840.0
577.0	575.5	574.0	574.0	574.0	575.5	65°	3260.7	3265.4	3246.7	3217.1	3033.2	3023.9
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	2953.8	2955.3	2992.7	2980.3	2952.2	3067.5
						70°	2421.0	2445.9	2509.8	2491.1	2634.4	2871.2
						72.5°	1843.0	1858.6	1934.9	1917.8	2112.5	2372.7
						75°	1341.3	1339.8	1372.5	1347.6	1593.7	1883.5
						77.5°	1032.9	1004.8	998.6	1001.7	1129.5	1369.4
						80°	833.5	833.5	824.1	789.9	691.7	800.8
						82.5°	665.2	638.7	592.0	525.0	444.0	473.6
						85°	331.8	322.5	282.0	233.7	194.7	258.6
						87.5°	1.6	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°
1089.0	1089.0	1089.0	1089.0	1089.0	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1213.6	1201.1	1187.1	1187.1	1174.7	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1263.5	1238.5	1218.3	1199.6	1180.9	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1238.5	1208.9	1184.0	1151.3	1121.7	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
1201.1	1168.4	1132.6	1098.3	1056.3	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
1180.9	1141.9	1098.3	1062.5	1014.2	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
1165.3	1124.8	1085.9	1051.6	1009.5	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
1190.2	1151.3	1123.2	1084.3	1051.6	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1232.3	1208.9	1187.1	1162.2	1135.7	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1311.7	1308.6	1307.1	1288.4	1269.7	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1411.5	1423.9	1441.1	1441.1	1441.1	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
1514.3	1545.4	1578.1	1592.2	1601.5	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
1543.9	1589.1	1640.5	1674.7	1698.1	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
1592.2	1643.6	1701.2	1740.2	1782.2	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
1649.8	1695.0	1754.2	1807.2	1867.9	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
1698.1	1757.3	1821.2	1889.7	1967.6	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
1771.3	1833.6	1903.8	1995.7	2090.7	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
1852.3	1919.3	1992.6	2084.5	2195.1	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
1922.4	1981.6	2061.1	2156.1	2282.3	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
1989.4	2044.0	2137.4	2234.0	2358.7	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
2078.2	2120.3	2213.8	2324.4	2456.8	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
2170.2	2227.8	2330.6	2456.8	2604.8	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
2294.8	2363.3	2489.5	2632.8	2819.8	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
2466.2	2537.8	2671.8	2832.3	3023.9	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
2676.5	2746.6	2861.9	3020.8	3199.9	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
2872.8	2969.4	3073.7	3192.1	3333.9	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
3086.2	3161.0	3248.2	3293.4	3372.8	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
3148.5	3210.8	3287.2	3287.2	3277.8	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2964.7	3059.7	3126.7	3126.7	3047.2								
2578.3	2737.2	2802.7	2843.2	2741.9								
2095.4	2293.2	2400.7	2435.0	2251.2								
1537.6	1663.8	1677.9	1682.5	1434.8								
886.4	986.1	1022.0	1073.4	860.0								
514.1	551.5	612.3	634.1	523.5								
288.2	291.3	291.3	269.5	219.7								
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								
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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 CATALOG NUMBER: ISC-AF-1000-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	1089.0	1089.0	1089.0
149.0	148.5	148.0	147.5	2.5°	1171.5	1152.8	1156.0
172.0	171.5	171.0	170.5	5°	1154.4	1127.9	1118.6
196.0	195.8	195.5	195.2	7.5°	1095.2	1050.0	1036.0
221.0	220.8	220.5	220.2	10°	1023.5	965.9	955.0
247.0	246.8	246.5	246.2	12.5°	983.0	917.6	903.6
270.0	269.8	269.5	269.2	15°	970.6	908.3	892.7
293.0	292.8	292.5	292.2	17.5°	1008.0	941.0	922.3
317.0	316.2	315.5	314.8	20°	1093.6	1014.2	992.4
339.0	338.5	338.0	337.5	22.5°	1221.4	1131.0	1104.5
363.0	362.2	361.5	360.8	25°	1394.3	1291.5	1265.0
385.0	384.5	384.0	383.5	27.5°	1571.9	1448.8	1414.6
408.0	407.5	407.0	406.5	30°	1674.7	1561.0	1526.7
428.0	427.5	427.0	426.5	32.5°	1779.1	1670.1	1629.6
447.0	446.2	445.5	444.8	35°	1889.7	1779.1	1738.6
464.0	463.5	463.0	462.5	37.5°	2019.0	1925.6	1889.7
483.0	482.2	481.5	480.8	40°	2173.3	2087.6	2036.2
502.0	501.5	501.0	500.5	42.5°	2301.0	2221.6	2173.3
517.0	516.5	516.0	515.5	45°	2394.5	2327.5	2277.6
529.0	528.5	528.0	527.5	47.5°	2480.2	2428.8	2378.9
539.0	538.2	537.5	536.8	50°	2587.7	2544.0	2509.8
549.0	548.5	548.0	547.5	52.5°	2732.6	2717.0	2687.4
559.0	558.2	557.5	556.8	55°	2946.0	2980.3	2938.2
566.0	565.2	564.5	563.8	57.5°	3148.5	3173.4	3154.7
569.0	568.2	567.5	566.8	60°	3307.4	3273.1	3249.8
570.0	569.8	569.5	569.2	62.5°	3388.4	3304.3	3265.4
575.0	574.5	574.0	573.5	65°	3393.1	3263.8	3204.6
576.0	576.0	576.0	576.0	67.5°	3287.2	3136.0	3067.5
				70°	3002.1	2827.6	2737.2
				72.5°	2522.2	2254.3	2193.5
				75°	1849.2	1520.5	1484.7
				77.5°	1120.1	874.0	827.2
				80°	630.9	501.6	486.1
				82.5°	358.3	282.0	297.6
				85°	146.4	73.2	81.0
				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)