

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: P228643

Luminaire Tested: **ISC-AF-600-LED-E1-SLR-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228643
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-600-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: 4685.2 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

Input Watts (W): 50.4
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

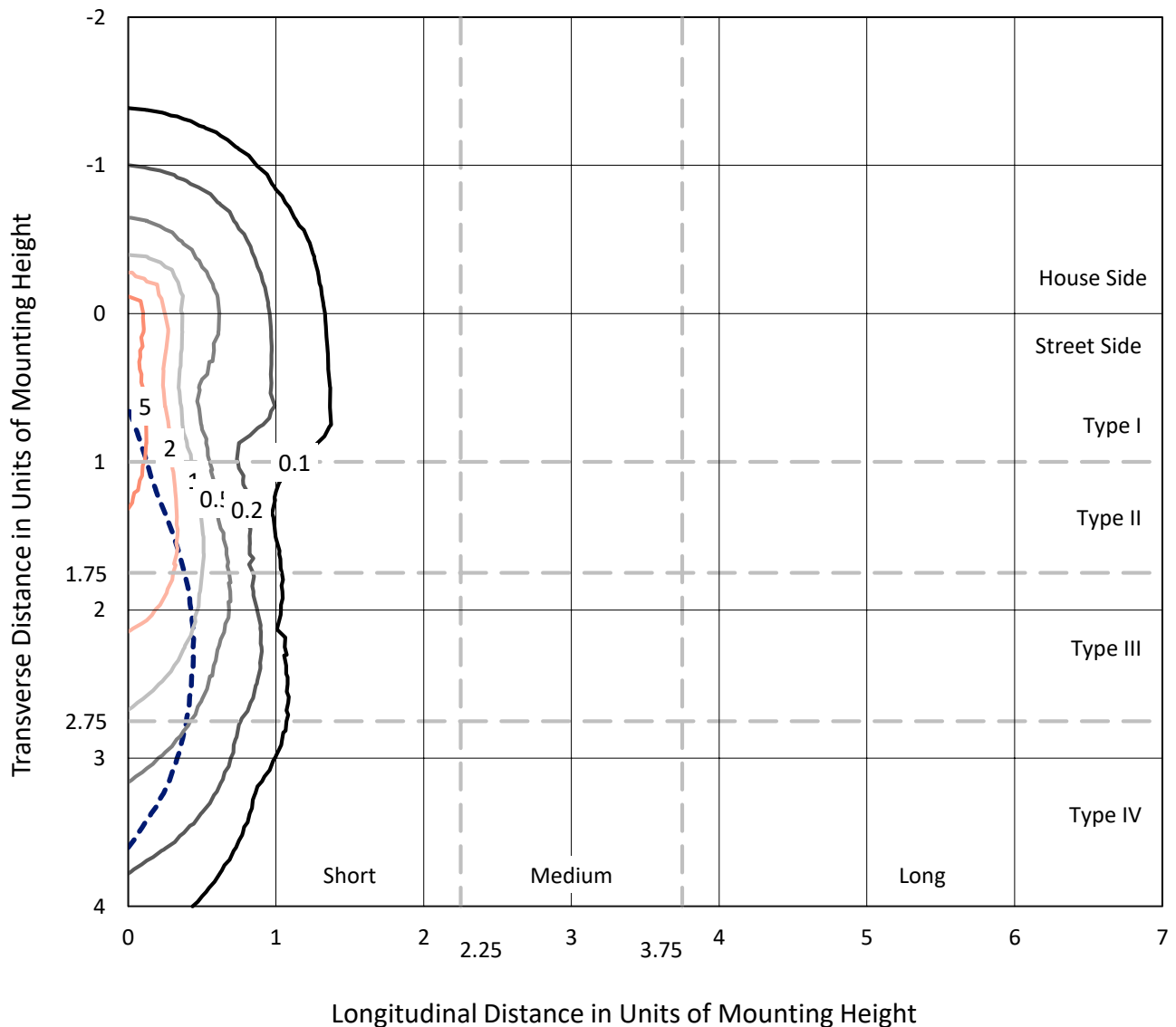


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

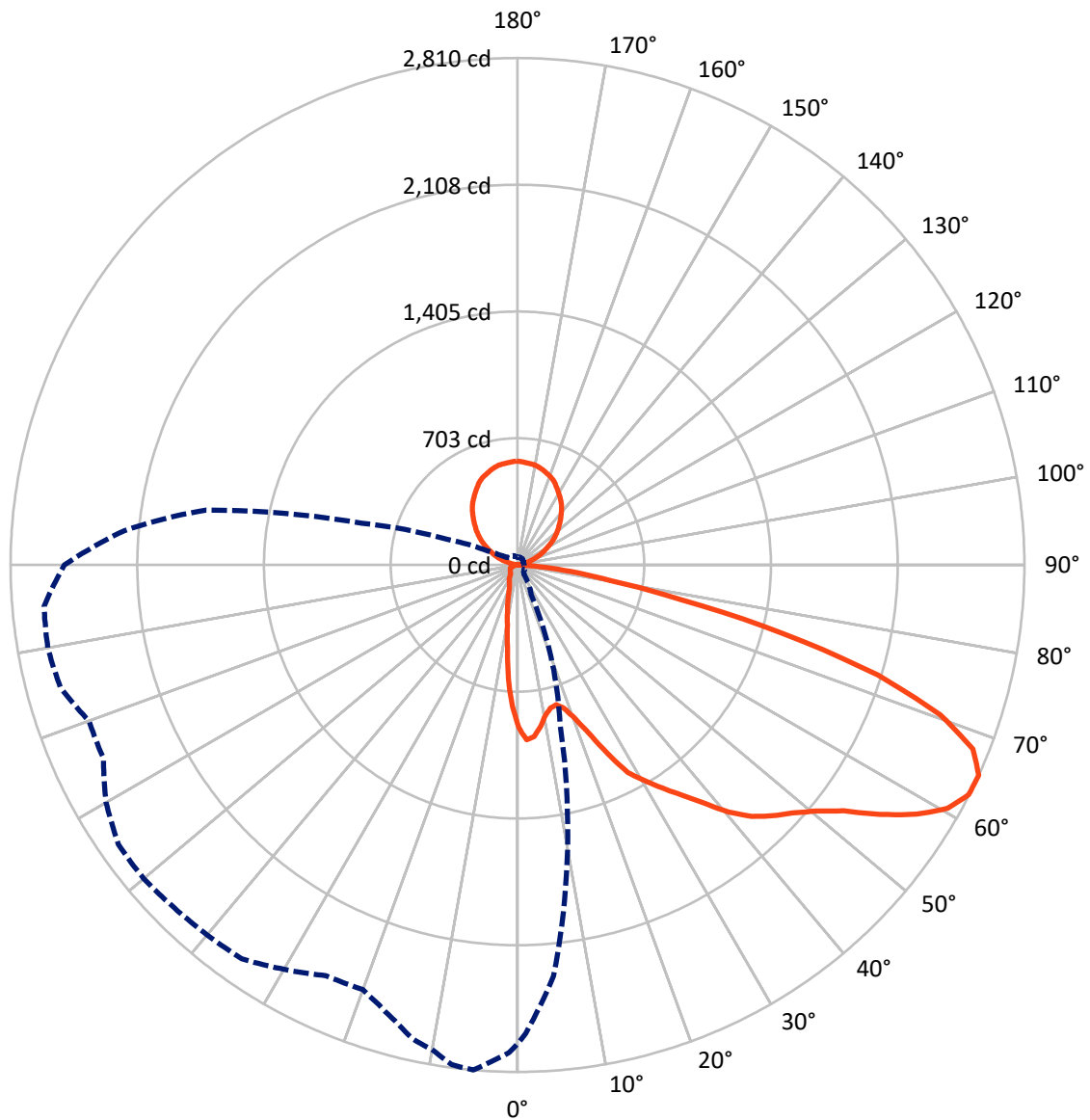


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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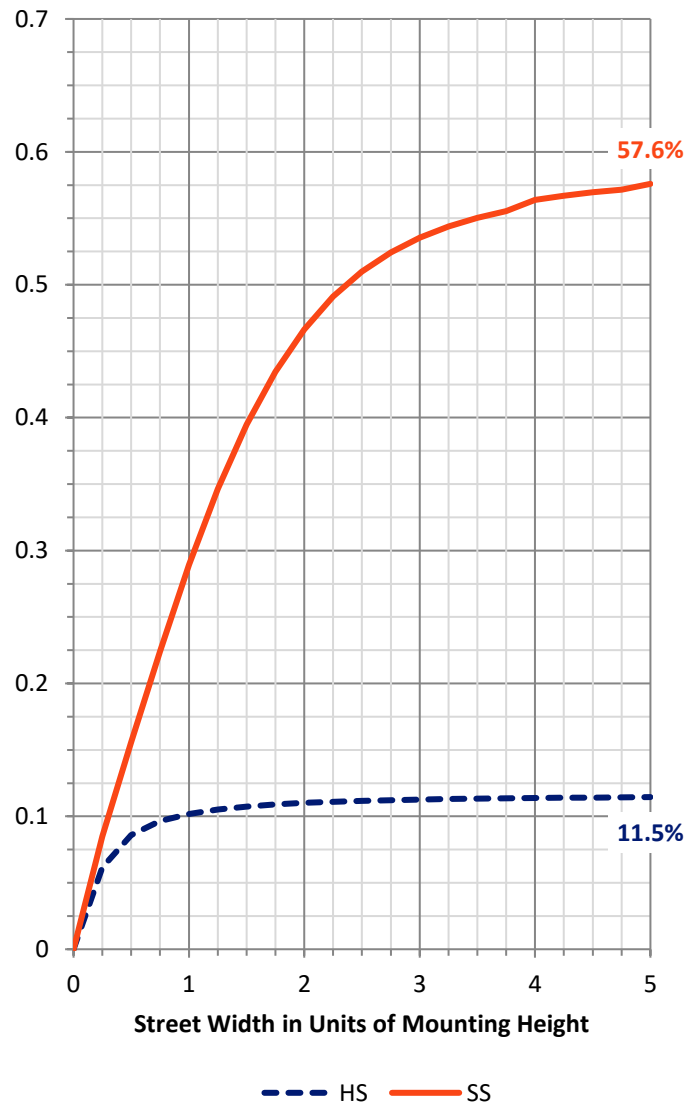
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.9	713.1	1255.0
	% Fixture	11.6	15.2	26.8
Street Side	Lumens	2717.1	713.1	3430.2
	% Fixture	58.0	15.2	73.2
Total	Lumens	3259.0	1426.2	4685.2
	% Fixture	69.6	30.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.5
10°-20°	142.7	3.0
20°-30°	207.4	4.4
30°-40°	306.8	6.5
40°-50°	447.0	9.5
50°-60°	670.1	14.3
60°-70°	835.0	17.8
70°-80°	489.2	10.4
80°-90°	91.5	2.0
90°-100°	4.7	0.1
100°-110°	69.0	1.5
110°-120°	153.0	3.3
120°-130°	223.9	4.8
130°-140°	265.6	5.7
140°-150°	269.3	5.7
150°-160°	231.1	4.9
160°-170°	155.1	3.3
170°-180°	54.3	1.2
0°-90°	3259.0	69.6
0°-180°	4685.2	100.0



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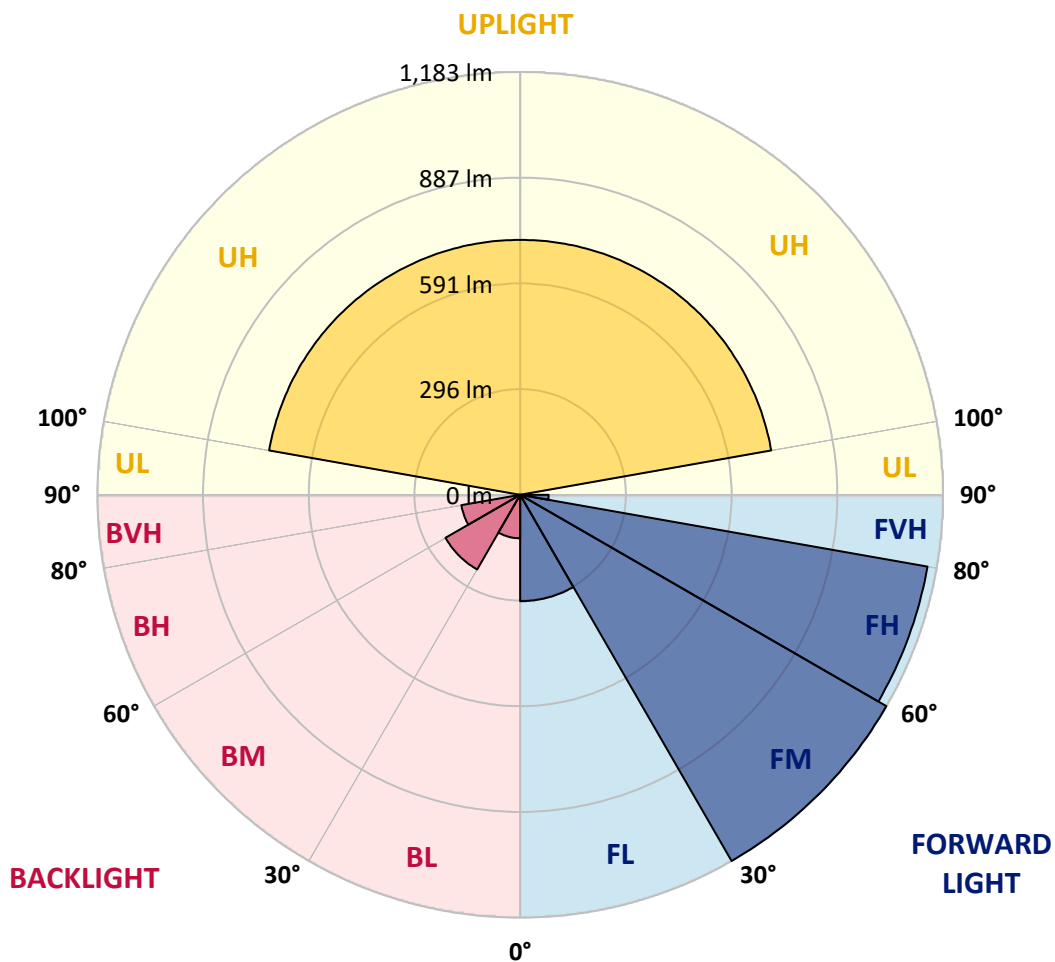
CATALOG NUMBER: ISC-AF-600-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.7	6.4			
FM (30°-60°)	1182.8	25.2			
FH (60°-80°)	1156.9	24.7			G1/1800
FVH (80°-90°)	79.7	1.7			G1/100
BL (0°-30°)	121.7	2.6	B1/500		
BM (30°-60°)	241.2	5.1	B1/1000		
BH (60°-80°)	167.3	3.6	B1/500		G1/500
BVH (80°-90°)	11.8	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	15.2		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°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	957.4	949.6	934.2	903.2	870.9	840.0	834.8	823.2	824.5	818.0	815.4
5°	926.4	916.1	883.8	819.3	763.8	707.1	703.2	680.0	682.5	668.4	660.6
7.5°	858.0	843.8	807.7	718.7	641.3	566.4	558.7	531.6	527.7	513.5	501.9
10°	790.9	776.7	731.6	629.6	540.6	485.1	476.1	463.2	452.9	446.4	434.8
12.5°	748.4	740.6	686.4	569.0	499.3	454.2	442.6	429.7	419.3	407.7	396.1
15°	739.3	723.8	668.4	549.7	468.4	412.9	398.7	384.5	372.9	361.3	344.5
17.5°	763.8	748.4	686.4	540.6	433.5	366.4	348.4	329.0	317.4	303.2	285.1
20°	821.9	797.4	721.3	527.7	396.1	312.2	290.3	267.1	254.2	229.7	216.8
22.5°	914.8	883.8	780.6	527.7	361.3	255.5	231.0	210.3	196.1	174.2	160.0
25°	1047.7	1020.6	877.4	541.9	330.3	207.7	183.2	162.6	148.4	132.9	123.9
27.5°	1171.6	1129.0	980.6	562.6	305.8	174.2	149.7	132.9	122.6	114.8	109.7
30°	1264.5	1229.6	1070.9	576.7	269.7	145.8	130.3	120.0	114.8	111.0	108.4
32.5°	1349.6	1309.6	1135.4	585.8	247.7	123.9	109.7	101.9	96.8	91.6	90.3
35°	1439.9	1401.2	1211.6	584.5	233.5	113.5	99.4	90.3	85.2	83.9	81.3
37.5°	1565.1	1512.2	1299.3	584.5	228.4	109.7	92.9	83.9	80.0	77.4	76.1
40°	1686.4	1627.0	1396.1	588.4	223.2	107.1	92.9	83.9	77.4	74.8	72.3
42.5°	1799.9	1734.1	1483.8	594.8	220.6	99.4	87.7	82.6	80.0	74.8	71.0
45°	1886.4	1834.8	1552.2	607.7	220.6	94.2	82.6	78.7	77.4	77.4	76.1
47.5°	1970.2	1912.2	1630.9	632.2	224.5	90.3	78.7	73.5	73.5	73.5	74.8
50°	2078.6	2010.2	1739.3	682.5	224.5	89.0	74.8	69.7	68.4	71.0	71.0
52.5°	2225.7	2176.7	1898.0	754.8	221.9	87.7	73.5	65.8	64.5	65.8	68.4
55°	2433.4	2378.0	2090.2	843.8	219.3	85.2	71.0	64.5	61.9	60.6	61.9
57.5°	2612.8	2565.0	2267.0	914.8	212.9	78.7	68.4	63.2	59.4	58.1	56.8
60°	2691.5	2651.5	2380.5	962.5	201.3	72.3	64.5	60.6	56.8	55.5	54.2
62.5°	2704.4	2654.1	2381.8	972.9	188.4	65.8	60.6	56.8	54.2	52.9	51.6
65°	2654.1	2597.3	2287.6	909.6	178.1	65.8	58.1	54.2	50.3	49.0	47.7
67.5°	2540.5	2452.8	2048.9	771.6	169.0	67.1	56.8	50.3	47.7	46.4	45.2
70°	2267.0	2168.9	1730.2	612.9	165.2	68.4	56.8	47.7	43.9	42.6	42.6
72.5°	1816.7	1704.4	1349.6	461.9	158.7	69.7	55.5	45.2	41.3	38.7	38.7
75°	1229.6	1131.6	914.8	312.2	131.6	60.6	50.3	41.3	36.1	33.5	32.3
77.5°	685.1	652.9	581.9	165.2	83.9	45.2	38.7	33.5	29.7	28.4	27.1
80°	402.6	385.8	343.2	91.6	51.6	25.8	23.2	21.9	19.4	19.4	19.4
82.5°	246.4	229.7	212.9	41.3	24.5	12.9	12.9	10.3	10.3	9.0	9.0
85°	67.1	61.9	86.4	9.0	2.6	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°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	805.1	802.5	802.5	783.2	783.2	772.9	770.3	770.3	774.2	771.6	756.1
5°	647.7	640.0	634.8	611.6	605.1	593.5	588.4	587.1	590.9	584.5	563.8
7.5°	487.7	481.3	473.5	455.5	447.7	446.4	430.9	427.1	424.5	419.3	406.4
10°	425.8	416.8	410.3	397.4	388.4	381.9	369.0	362.6	357.4	349.7	345.8
12.5°	383.2	374.2	365.1	348.4	336.8	329.0	321.3	308.4	303.2	294.2	289.0
15°	330.3	320.0	309.7	291.6	276.1	268.4	252.9	245.2	240.0	229.7	224.5
17.5°	265.8	251.6	240.0	223.2	215.5	202.6	193.5	180.6	170.3	166.4	162.6
20°	200.0	187.1	176.8	162.6	154.8	144.5	139.3	130.3	125.2	122.6	120.0
22.5°	147.1	136.8	130.3	122.6	118.7	114.8	112.3	109.7	107.1	105.8	105.8
25°	116.1	112.3	109.7	107.1	105.8	104.5	101.9	100.6	99.4	98.1	98.1
27.5°	105.8	103.2	101.9	100.6	99.4	96.8	96.8	94.2	92.9	92.9	91.6
30°	107.1	107.1	107.1	104.5	103.2	100.6	99.4	95.5	92.9	90.3	89.0
32.5°	87.7	87.7	86.4	83.9	82.6	81.3	81.3	78.7	77.4	77.4	80.0
35°	80.0	78.7	77.4	74.8	73.5	71.0	69.7	68.4	67.1	65.8	65.8
37.5°	76.1	74.8	73.5	71.0	69.7	68.4	67.1	64.5	63.2	63.2	61.9
40°	72.3	72.3	72.3	69.7	68.4	65.8	64.5	63.2	61.9	60.6	60.6
42.5°	69.7	69.7	69.7	68.4	67.1	65.8	63.2	61.9	60.6	59.4	58.1
45°	71.0	69.7	69.7	68.4	67.1	64.5	63.2	60.6	59.4	58.1	56.8
47.5°	76.1	74.8	72.3	69.7	67.1	64.5	61.9	59.4	58.1	56.8	55.5
50°	72.3	77.4	78.7	74.8	68.4	64.5	61.9	59.4	56.8	55.5	54.2
52.5°	71.0	72.3	77.4	77.4	71.0	65.8	61.9	59.4	56.8	54.2	52.9
55°	64.5	68.4	69.7	71.0	69.7	64.5	60.6	56.8	55.5	52.9	50.3
57.5°	56.8	59.4	60.6	63.2	64.5	63.2	58.1	54.2	52.9	50.3	47.7
60°	52.9	52.9	52.9	54.2	60.6	65.8	60.6	52.9	49.0	47.7	45.2
62.5°	49.0	49.0	47.7	49.0	50.3	56.8	55.5	50.3	47.7	46.4	43.9
65°	47.7	46.4	45.2	45.2	45.2	45.2	45.2	45.2	43.9	43.9	42.6
67.5°	43.9	42.6	42.6	41.3	41.3	41.3	41.3	41.3	40.0	40.0	38.7
70°	41.3	40.0	38.7	38.7	38.7	37.4	37.4	37.4	36.1	36.1	36.1
72.5°	37.4	36.1	36.1	36.1	34.8	34.8	34.8	33.5	33.5	32.3	32.3
75°	32.3	32.3	31.0	31.0	31.0	29.7	29.7	29.7	29.7	28.4	28.4
77.5°	27.1	25.8	27.1	25.8	25.8	25.8	25.8	25.8	24.5	24.5	23.2
80°	18.1	18.1	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	18.1
82.5°	10.3	9.0	10.3	10.3	10.3	11.6	11.6	12.9	11.6	11.6	10.3
85°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	2.6	2.6	2.6	2.6
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-600-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: P228643

CATALOG NUMBER: ISC-AF-600-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9
2.5°	763.8	762.5	749.6	752.2	748.4	740.6	741.9	743.2	745.8	740.6	738.0
5°	574.2	575.5	558.7	563.8	560.0	558.7	562.6	569.0	572.9	571.6	567.7
7.5°	407.7	409.0	394.8	393.5	389.7	388.4	393.5	400.0	403.9	402.6	403.9
10°	336.8	332.9	320.0	311.0	301.9	294.2	292.9	292.9	292.9	290.3	287.7
12.5°	278.7	274.8	259.3	251.6	243.9	233.5	232.2	231.0	227.1	223.2	218.1
15°	216.8	212.9	200.0	194.8	188.4	184.5	183.2	183.2	180.6	178.1	175.5
17.5°	157.4	154.8	147.1	141.9	140.6	141.9	143.2	145.8	147.1	148.4	148.4
20°	118.7	117.4	114.8	114.8	116.1	120.0	121.3	125.2	126.4	129.0	131.6
22.5°	104.5	104.5	103.2	103.2	105.8	109.7	112.3	113.5	114.8	116.1	116.1
25°	96.8	96.8	95.5	98.1	101.9	101.9	101.9	101.9	99.4	98.1	98.1
27.5°	91.6	91.6	91.6	92.9	91.6	90.3	90.3	90.3	89.0	89.0	87.7
30°	87.7	87.7	87.7	86.4	86.4	85.2	85.2	83.9	83.9	82.6	82.6
32.5°	81.3	78.7	81.3	78.7	78.7	77.4	78.7	78.7	76.1	76.1	76.1
35°	64.5	63.2	63.2	63.2	61.9	63.2	65.8	65.8	65.8	65.8	65.8
37.5°	60.6	60.6	59.4	58.1	58.1	56.8	58.1	56.8	56.8	56.8	58.1
40°	59.4	58.1	56.8	56.8	55.5	54.2	54.2	54.2	54.2	54.2	54.2
42.5°	56.8	56.8	54.2	52.9	52.9	51.6	51.6	51.6	51.6	51.6	51.6
45°	55.5	54.2	52.9	51.6	50.3	50.3	50.3	50.3	50.3	50.3	49.0
47.5°	54.2	52.9	51.6	50.3	49.0	47.7	47.7	47.7	47.7	47.7	47.7
50°	52.9	51.6	49.0	49.0	47.7	46.4	46.4	46.4	46.4	46.4	46.4
52.5°	50.3	50.3	47.7	46.4	45.2	45.2	45.2	45.2	45.2	45.2	45.2
55°	47.7	47.7	45.2	43.9	42.6	42.6	42.6	42.6	43.9	43.9	43.9
57.5°	46.4	45.2	42.6	42.6	40.0	40.0	40.0	41.3	41.3	42.6	42.6
60°	43.9	42.6	41.3	40.0	40.0	38.7	38.7	38.7	38.7	40.0	40.0
62.5°	42.6	41.3	38.7	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
65°	40.0	40.0	37.4	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
67.5°	37.4	37.4	34.8	33.5	33.5	33.5	34.8	33.5	33.5	33.5	33.5
70°	34.8	33.5	32.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
72.5°	31.0	31.0	29.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.7
75°	27.1	25.8	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
77.5°	23.2	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	21.9
80°	16.8	15.5	15.5	15.5	15.5	16.8	16.8	16.8	16.8	16.8	16.8
82.5°	10.3	9.0	9.0	9.0	10.3	11.6	11.6	11.6	11.6	12.9	12.9
85°	2.6	2.6	2.6	2.6	5.2	6.5	6.5	6.5	7.7	6.5	6.5
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



REPORT NUMBER: P228643
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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: P228643
 NUMBER: ISC-AF-600-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°	
901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	112.5°	136.0
735.5	750.9	750.9	740.6	745.8	740.6	739.3	748.4	753.5	770.3	780.6	115°	158.0
569.0	588.4	589.7	584.5	590.9	587.1	590.9	602.6	611.6	623.2	633.5	117.5°	181.0
406.4	424.5	428.4	424.5	436.1	434.8	437.4	450.3	458.0	464.5	465.8	120°	204.0
286.4	289.0	299.3	296.8	304.5	303.2	307.1	317.4	327.7	331.6	334.2	122.5°	228.0
215.5	212.9	216.8	211.6	215.5	215.5	216.8	223.2	236.1	241.3	254.2	125°	254.0
174.2	171.6	171.6	169.0	169.0	167.7	169.0	174.2	183.2	191.0	201.3	127.5°	277.0
148.4	148.4	148.4	147.1	145.8	145.8	147.1	149.7	154.8	160.0	165.2	130°	301.0
132.9	135.5	136.8	138.1	139.3	140.6	141.9	145.8	144.5	139.3	132.9	132.5°	325.0
116.1	116.1	117.4	117.4	116.1	116.1	116.1	116.1	116.1	120.0	123.9	135°	348.0
96.8	96.8	96.8	98.1	96.8	96.8	98.1	98.1	99.4	101.9	105.8	137.5°	369.0
87.7	87.7	87.7	87.7	87.7	87.7	87.7	89.0	90.3	94.2	96.8	140°	390.0
81.3	81.3	80.0	80.0	80.0	78.7	80.0	80.0	81.3	86.4	90.3	142.5°	412.0
74.8	73.5	73.5	73.5	72.3	72.3	72.3	74.8	76.1	78.7	82.6	145°	433.0
65.8	65.8	65.8	67.1	67.1	67.1	67.1	69.7	69.7	71.0	71.0	147.5°	452.0
59.4	59.4	60.6	61.9	61.9	63.2	63.2	64.5	65.8	64.5	63.2	150°	469.0
54.2	55.5	55.5	58.1	58.1	58.1	59.4	60.6	61.9	59.4	59.4	152.5°	486.0
51.6	51.6	51.6	52.9	52.9	52.9	54.2	55.5	56.8	56.8	56.8	155°	503.0
49.0	49.0	49.0	50.3	49.0	49.0	49.0	50.3	52.9	52.9	54.2	157.5°	517.0
47.7	47.7	47.7	46.4	46.4	46.4	46.4	47.7	49.0	51.6	52.9	160°	530.0
46.4	45.2	45.2	45.2	45.2	45.2	45.2	46.4	47.7	49.0	51.6	162.5°	540.0
43.9	43.9	43.9	43.9	43.9	43.9	43.9	45.2	46.4	47.7	49.0	165°	550.0
43.9	43.9	42.6	42.6	43.9	43.9	43.9	45.2	46.4	47.7	47.7	167.5°	558.0
42.6	41.3	41.3	42.6	42.6	42.6	42.6	43.9	45.2	46.4	46.4	170°	564.0
40.0	40.0	40.0	40.0	41.3	41.3	42.6	43.9	43.9	45.2	45.2	172.5°	567.0
37.4	38.7	38.7	38.7	40.0	40.0	41.3	42.6	43.9	45.2	43.9	175°	570.0
36.1	37.4	37.4	37.4	38.7	38.7	38.7	41.3	42.6	42.6	43.9	177.5°	574.0
34.8	34.8	34.8	36.1	36.1	37.4	37.4	40.0	40.0	41.3	42.6	180°	576.0
32.3	32.3	32.3	33.5	33.5	34.8	36.1	37.4	37.4	38.7	40.0		
29.7	29.7	29.7	31.0	31.0	32.3	33.5	36.1	34.8	36.1	36.1		
25.8	25.8	27.1	27.1	28.4	29.7	31.0	31.0	31.0	31.0	31.0		
21.9	21.9	23.2	23.2	24.5	25.8	25.8	25.8	27.1	25.8	25.8		
18.1	18.1	19.4	19.4	19.4	19.4	20.6	19.4	20.6	19.4	20.6		
12.9	12.9	14.2	12.9	14.2	12.9	12.9	11.6	14.2	12.9	12.9		
5.2	6.5	6.5	6.5	6.5	5.2	5.2	3.9	5.2	5.2	3.9		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		

'228643
 ISC-AF-600-LED-E1-SLR-7050-ULG

REPORT NUMBER: P228643
 CATALOG NUMBER: ISC-AF-60

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°	901.9	901.9
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	784.5	783.2
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	634.8	632.2
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	454.2	449.0
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	335.5	339.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	268.4	283.9
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	215.5	224.5
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	166.4	170.3
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	132.9	132.9
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	116.1	114.8
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	109.7	108.4
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	99.4	100.6
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	92.9	94.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	85.2	86.4
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	69.7	69.7
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	64.5	64.5
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	60.6	61.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	58.1	58.1
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	55.5	56.8
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	54.2	54.2
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	51.6	52.9
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	50.3	51.6
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	49.0	49.0
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	46.4	47.7
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	46.4	46.4
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	45.2	45.2
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	43.9	43.9
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	41.3	41.3
										70°	38.7	38.7
										72.5°	36.1	34.8
										75°	31.0	31.0
										77.5°	25.8	25.8
										80°	19.4	18.1
										82.5°	11.6	10.3
										85°	3.9	3.9
										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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O-LED-E1-SLR-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

185°	195°	205°	215°	225°	230°	235°	240°	245°		175°	180°	185°
901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	901.9	112.5°	124.0	124.0	124.0
802.5	816.7	825.8	860.6	876.1	895.4	904.5	917.4	930.3	115°	147.0	146.0	147.0
655.5	673.5	689.0	739.3	769.0	796.1	818.0	838.7	868.3	117.5°	170.0	169.0	170.0
464.5	480.0	500.6	554.8	606.4	642.6	674.8	709.6	748.4	120°	195.0	193.0	195.0
354.8	378.0	405.1	446.4	487.7	513.5	541.9	580.6	627.1	122.5°	220.0	219.0	220.0
296.8	325.1	357.4	403.9	447.7	468.4	489.0	508.4	532.9	125°	246.0	244.0	246.0
234.8	261.9	300.6	354.8	406.4	429.7	454.2	477.4	499.3	127.5°	269.0	267.0	269.0
175.5	194.8	229.7	294.2	351.0	380.6	409.0	441.3	470.9	130°	292.0	290.0	292.0
134.2	143.2	167.7	218.1	287.7	325.1	361.3	402.6	445.1	132.5°	314.0	313.0	314.0
116.1	120.0	131.6	161.3	224.5	268.4	314.8	366.4	419.3	135°	337.0	336.0	337.0
107.1	109.7	116.1	130.3	175.5	221.9	269.7	331.6	396.1	137.5°	360.0	359.0	360.0
101.9	104.5	109.7	117.4	145.8	180.6	233.5	301.9	379.3	140°	383.0	382.0	383.0
95.5	98.1	107.1	116.1	132.9	154.8	200.0	267.1	353.5	142.5°	406.0	404.0	406.0
87.7	89.0	91.6	101.9	113.5	131.6	170.3	236.1	326.4	145°	426.0	425.0	426.0
71.0	74.8	80.0	90.3	101.9	116.1	152.3	215.5	309.7	147.5°	444.0	444.0	444.0
65.8	69.7	74.8	83.9	94.2	107.1	144.5	207.7	294.2	150°	462.0	461.0	462.0
61.9	65.8	71.0	81.3	87.7	103.2	140.6	196.1	278.7	152.5°	480.0	479.0	480.0
59.4	63.2	69.7	77.4	86.4	100.6	130.3	185.8	269.7	155°	500.0	499.0	500.0
56.8	60.6	68.4	74.8	87.7	95.5	123.9	178.1	261.9	157.5°	515.0	513.0	515.0
55.5	59.4	67.1	76.1	85.2	90.3	117.4	171.6	255.5	160°	527.0	525.0	527.0
54.2	58.1	65.8	83.9	81.3	86.4	112.3	166.4	251.6	162.5°	536.0	535.0	536.0
52.9	56.8	65.8	85.2	78.7	81.3	108.4	161.3	249.0	165°	547.0	546.0	547.0
50.3	55.5	65.8	78.7	73.5	78.7	100.6	153.5	242.6	167.5°	556.0	555.0	556.0
49.0	52.9	64.5	72.3	69.7	74.8	92.9	140.6	233.5	170°	563.0	562.0	563.0
47.7	51.6	64.5	64.5	65.8	71.0	83.9	125.2	218.1	172.5°	566.0	565.0	566.0
46.4	51.6	65.8	58.1	61.9	67.1	77.4	112.3	198.7	175°	569.0	567.0	569.0
45.2	49.0	56.8	55.5	59.4	63.2	74.8	103.2	181.9	177.5°	573.0	572.0	573.0
42.6	46.4	50.3	51.6	56.8	60.6	73.5	101.9	166.4	180°	576.0	576.0	576.0
38.7	42.6	45.2	49.0	52.9	58.1	73.5	100.6	154.8				
36.1	38.7	41.3	43.9	47.7	54.2	72.3	101.9	149.7				
31.0	33.5	36.1	38.7	42.6	50.3	68.4	95.5	134.2				
24.5	28.4	31.0	32.3	36.1	43.9	59.4	81.3	108.4				
18.1	21.9	23.2	25.8	28.4	33.5	46.4	59.4	80.0				
10.3	14.2	15.5	16.8	21.9	24.5	31.0	38.7	54.2				
3.9	6.5	7.7	9.0	12.9	14.2	19.4	24.5	28.4				
0.0	0.0	0.0	0.0	2.6	3.9	6.5	7.7	6.5				
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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SLR-7050-ULG

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°	901.9	901.9	901.9	901.9
149.0	151.0	154.0	156.0	157.0	158.0	158.0	158.0	2.5°	945.8	958.7	975.4	990.9
172.0	174.0	177.0	179.0	179.5	180.0	180.5	181.0	5°	891.6	916.1	952.2	981.9
196.0	198.0	201.0	202.0	203.0	204.0	204.0	204.0	7.5°	781.9	815.4	860.6	901.9
221.0	223.0	226.0	227.0	227.5	228.0	228.0	228.0	10°	667.1	713.5	761.3	814.2
247.0	248.0	251.0	252.0	252.5	253.0	253.5	254.0	12.5°	572.9	625.8	680.0	745.8
270.0	272.0	274.0	276.0	277.0	278.0	277.5	277.0	15°	532.9	579.3	642.6	714.8
293.0	294.0	298.0	299.0	300.0	301.0	301.0	301.0	17.5°	516.1	575.5	647.7	723.8
317.0	318.0	321.0	322.0	323.5	325.0	325.0	325.0	20°	498.0	579.3	676.1	769.0
339.0	341.0	345.0	345.0	346.5	348.0	348.0	348.0	22.5°	487.7	592.2	712.2	842.5
363.0	364.0	367.0	367.0	368.0	369.0	369.0	369.0	25°	485.1	621.9	774.2	947.1
385.0	386.0	388.0	389.0	389.5	390.0	390.0	390.0	27.5°	487.7	655.5	851.6	1059.3
408.0	407.0	410.0	410.0	411.0	412.0	412.0	412.0	30°	476.1	690.3	929.0	1157.4
428.0	428.0	431.0	432.0	433.0	434.0	433.5	433.0	32.5°	456.8	716.1	997.4	1236.1
447.0	448.0	452.0	453.0	453.5	454.0	453.0	452.0	35°	434.8	727.7	1046.4	1309.6
464.0	465.0	469.0	470.0	470.5	471.0	470.0	469.0	37.5°	411.6	729.0	1092.9	1387.0
483.0	482.0	485.0	486.0	486.5	487.0	486.5	486.0	40°	398.7	723.8	1140.6	1482.5
502.0	501.0	503.0	503.0	503.5	504.0	503.5	503.0	42.5°	393.5	714.8	1175.4	1554.8
517.0	516.0	519.0	519.0	519.0	519.0	518.0	517.0	45°	393.5	705.8	1207.7	1609.0
529.0	529.0	532.0	532.0	532.0	532.0	531.0	530.0	47.5°	394.8	709.6	1246.4	1696.7
539.0	538.0	541.0	541.0	541.5	542.0	541.0	540.0	50°	401.3	753.5	1312.2	1793.5
549.0	548.0	552.0	552.0	552.5	553.0	551.5	550.0	52.5°	411.6	823.2	1425.7	1908.3
559.0	558.0	561.0	560.0	560.0	560.0	559.0	558.0	55°	421.9	894.2	1574.1	2100.5
566.0	565.0	567.0	566.0	565.5	565.0	564.5	564.0	57.5°	430.9	947.1	1718.6	2291.5
569.0	567.0	569.0	568.0	568.5	569.0	568.0	567.0	60°	440.0	988.3	1802.5	2376.7
570.0	569.0	572.0	572.0	572.5	573.0	571.5	570.0	62.5°	434.8	972.9	1825.7	2334.1
575.0	574.0	578.0	577.0	577.0	577.0	575.5	574.0	65°	415.5	891.6	1752.2	2187.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	362.6	749.6	1526.4	1954.7
								70°	300.6	588.4	1245.1	1664.4
								72.5°	252.9	440.0	957.4	1289.0
								75°	210.3	311.0	673.5	887.7
								77.5°	156.1	211.6	487.7	620.6
								80°	104.5	130.3	311.0	433.5
								82.5°	63.2	76.1	179.3	303.2
								85°	34.8	47.7	109.7	198.7
								87.5°	9.0	10.3	24.5	9.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	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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JLG

CANDELA DISTRIBUTION (continued):

270°	275°	280°	285°	290°	295°	300°		250°	255°	260°	265°	270°
901.9	901.9	901.9	901.9	901.9	901.9	901.9	112.5°	135.5	135.0	136.0	137.0	135.0
1002.5	1012.9	1025.8	1025.8	1041.2	1046.4	1056.7	115°	158.0	158.0	159.0	160.0	159.0
1018.0	1052.9	1085.1	1103.2	1134.1	1154.8	1175.4	117.5°	180.5	180.0	181.0	182.0	180.0
954.8	1011.6	1064.5	1113.5	1165.1	1209.0	1241.2	120°	204.0	204.0	205.0	206.0	204.0
870.9	931.6	996.1	1061.9	1123.8	1185.8	1238.7	122.5°	228.5	229.0	231.0	233.0	232.0
811.6	876.1	952.2	1009.0	1073.5	1135.4	1187.0	125°	254.0	254.0	255.5	257.0	256.0
784.5	850.3	921.2	979.3	1040.0	1090.3	1126.4	127.5°	277.5	278.0	279.5	281.0	278.0
798.7	878.7	941.9	990.9	1036.1	1059.3	1064.5	130°	301.5	302.0	303.5	305.0	303.0
860.6	944.5	990.9	1023.2	1030.9	1029.6	1010.3	132.5°	325.5	326.0	327.5	329.0	327.0
957.4	1055.4	1087.7	1081.2	1049.0	1007.7	975.4	135°	348.5	349.0	350.0	351.0	350.0
1087.7	1185.8	1203.8	1167.7	1095.4	1015.4	961.2	137.5°	369.5	370.0	372.0	374.0	372.0
1224.5	1325.1	1318.6	1264.5	1161.2	1049.0	962.5	140°	391.0	392.0	394.0	396.0	394.0
1321.2	1405.1	1379.3	1298.0	1183.2	1070.9	979.3	142.5°	412.5	413.0	414.5	416.0	415.0
1421.9	1485.1	1438.6	1350.9	1232.2	1117.4	1023.2	145°	433.5	434.0	435.5	437.0	435.0
1530.3	1563.8	1489.0	1399.9	1291.6	1175.4	1073.5	147.5°	452.5	453.0	454.5	456.0	453.0
1634.8	1649.0	1540.6	1445.1	1339.3	1234.8	1141.9	150°	469.0	469.0	471.0	473.0	470.0
1747.0	1727.7	1594.8	1482.5	1378.0	1298.0	1221.9	152.5°	486.0	486.0	487.5	489.0	486.0
1843.8	1801.2	1645.1	1519.9	1425.7	1358.6	1305.7	155°	503.5	504.0	505.5	507.0	505.0
1916.0	1860.6	1692.8	1556.1	1472.2	1430.9	1405.1	157.5°	517.5	518.0	520.5	523.0	520.0
1978.0	1917.3	1730.2	1609.0	1536.7	1521.2	1530.3	160°	530.0	530.0	531.5	533.0	531.0
2055.4	1978.0	1780.6	1668.3	1624.4	1639.9	1691.5	162.5°	539.0	538.0	539.0	540.0	537.0
2175.4	2074.7	1864.4	1753.5	1732.8	1788.3	1886.4	165°	549.0	548.0	549.0	550.0	548.0
2368.9	2250.2	2012.8	1901.8	1877.3	1962.5	2103.1	167.5°	558.5	559.0	561.0	563.0	561.0
2536.7	2446.3	2208.9	2074.7	2064.4	2156.0	2309.6	170°	565.0	566.0	568.5	571.0	569.0
2612.8	2603.8	2411.5	2287.6	2272.2	2357.3	2503.1	172.5°	567.5	568.0	569.5	571.0	568.0
2606.3	2681.2	2576.7	2488.9	2436.0	2507.0	2648.9	175°	569.0	568.0	569.5	571.0	568.0
2512.1	2634.7	2643.7	2623.1	2527.6	2532.8	2633.4	177.5°	574.0	574.0	575.5	577.0	574.0
2327.6	2473.4	2625.7	2619.2	2497.9	2390.9	2411.5	180°	576.0	576.0	576.0	576.0	576.0
2065.7	2190.9	2433.4	2482.5	2309.6	2109.6	2015.4						
1655.4	1801.2	2161.2	2229.6	1993.5	1712.2	1566.4						
1141.9	1334.1	1886.4	1892.8	1618.0	1347.0	1189.6						
784.5	949.6	1525.1	1541.9	1283.8	1021.9	886.4						
527.7	636.1	1118.7	1047.7	847.7	708.4	673.5						
332.9	396.1	703.2	656.7	558.7	510.9	523.8						
154.8	216.8	384.5	375.5	352.2	308.4	268.4						
3.9	11.6	74.8	49.0	49.0	28.4	10.3						
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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CATALOG NUMBER: ISC-AF-600-LED-E1-SLR-7050-ULG

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°	901.9	901.9	901.9	901.9	901.9	901.9
160.0	159.0	158.0	158.0	158.0	158.0	2.5°	1047.7	1051.6	1050.3	1041.2	1018.0	1009.0
182.0	181.0	180.0	180.5	181.0	180.5	5°	1174.1	1180.6	1172.8	1150.9	1091.6	1063.2
206.0	205.0	204.0	204.0	204.0	204.0	7.5°	1263.2	1268.3	1255.4	1205.1	1099.3	1051.6
233.0	231.0	229.0	228.5	228.0	228.0	10°	1279.9	1291.6	1277.4	1205.1	1082.5	1023.2
257.0	255.5	254.0	254.0	254.0	253.5	12.5°	1232.2	1256.7	1246.4	1193.5	1074.8	1011.6
281.0	279.5	278.0	277.5	277.0	277.5	15°	1158.7	1161.2	1167.7	1166.4	1060.6	998.7
305.0	303.5	302.0	301.5	301.0	301.0	17.5°	1077.4	1074.8	1082.5	1107.0	1056.7	1007.7
329.0	327.5	326.0	325.5	325.0	325.0	20°	1003.8	1000.0	1007.7	1032.2	1041.2	1029.6
351.0	350.0	349.0	348.5	348.0	348.0	22.5°	957.4	944.5	943.2	979.3	1049.0	1080.0
374.0	372.0	370.0	369.5	369.0	369.0	25°	931.6	917.4	923.8	965.1	1081.2	1139.3
396.0	394.0	392.0	391.0	390.0	390.0	27.5°	923.8	908.3	917.4	963.8	1114.8	1211.6
416.0	414.5	413.0	412.5	412.0	412.0	30°	929.0	913.5	917.4	972.9	1131.6	1228.3
437.0	435.5	434.0	433.5	433.0	433.5	32.5°	958.7	931.6	929.0	1000.0	1162.5	1265.7
456.0	454.5	453.0	452.5	452.0	453.0	35°	998.7	960.0	954.8	1043.8	1202.5	1313.5
473.0	471.0	469.0	469.0	469.0	470.0	37.5°	1065.8	1018.0	1010.3	1117.4	1256.7	1353.5
489.0	487.5	486.0	486.0	486.0	486.5	40°	1156.1	1108.3	1108.3	1211.6	1330.3	1409.0
507.0	505.5	504.0	503.5	503.0	503.5	42.5°	1258.0	1227.0	1232.2	1325.1	1414.1	1478.6
523.0	520.5	518.0	517.5	517.0	518.0	45°	1393.5	1376.7	1402.5	1468.3	1499.3	1543.2
533.0	531.5	530.0	530.0	530.0	531.0	47.5°	1552.2	1566.4	1602.5	1623.2	1585.7	1609.0
540.0	539.0	538.0	539.0	540.0	541.0	50°	1750.9	1788.3	1823.1	1818.0	1692.8	1685.1
550.0	549.0	548.0	549.0	550.0	551.5	52.5°	1979.3	2028.3	2052.8	2024.4	1812.8	1767.7
563.0	561.0	559.0	558.5	558.0	559.0	55°	2211.5	2270.9	2263.1	2230.9	1943.1	1882.5
571.0	568.5	566.0	565.0	564.0	564.5	57.5°	2421.8	2468.3	2488.9	2419.2	2101.8	2021.8
571.0	569.5	568.0	567.5	567.0	568.0	60°	2588.3	2638.6	2638.6	2570.2	2274.7	2181.8
571.0	569.5	568.0	569.0	570.0	571.5	62.5°	2709.6	2749.6	2735.4	2669.6	2423.1	2352.2
577.0	575.5	574.0	574.0	574.0	575.5	65°	2700.5	2704.4	2688.9	2664.4	2512.1	2504.4
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	2446.3	2447.6	2478.6	2468.3	2445.0	2540.5
						70°	2005.1	2025.7	2078.6	2063.1	2181.8	2378.0
						72.5°	1526.4	1539.3	1602.5	1588.3	1749.6	1965.1
						75°	1110.9	1109.6	1136.7	1116.1	1319.9	1559.9
						77.5°	855.4	832.2	827.1	829.6	935.4	1134.1
						80°	690.3	690.3	682.5	654.2	572.9	663.2
						82.5°	550.9	529.0	490.3	434.8	367.7	392.2
						85°	274.8	267.1	233.5	193.5	161.3	214.2
						87.5°	1.3	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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CATALOG NUMBER: ISC-AF-600-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

342.5°	345°	347.5°	350°	352.5°		305°	310°	315°	325°	335°	340°	342.5°
901.9	901.9	901.9	901.9	901.9	112.5°	136.0	135.0	134.0	132.0	129.0	127.5	126.8
1005.1	994.8	983.2	983.2	972.9	115°	158.0	157.0	156.0	154.0	151.0	150.0	149.5
1046.4	1025.8	1009.0	993.5	978.0	117.5°	180.0	179.5	179.0	177.0	174.0	173.0	172.5
1025.8	1001.2	980.6	953.5	929.0	120°	204.0	203.0	202.0	201.0	198.0	197.0	196.5
994.8	967.7	938.0	909.6	874.8	122.5°	228.0	227.5	227.0	226.0	223.0	222.0	221.5
978.0	945.8	909.6	880.0	840.0	125°	253.0	252.5	252.0	251.0	248.0	247.5	247.2
965.1	931.6	899.3	870.9	836.1	127.5°	278.0	277.0	276.0	274.0	272.0	271.0	270.5
985.8	953.5	930.3	898.0	870.9	130°	301.0	300.0	299.0	298.0	294.0	293.5	293.2
1020.6	1001.2	983.2	962.5	940.6	132.5°	325.0	323.5	322.0	321.0	318.0	317.5	317.2
1086.4	1083.8	1082.5	1067.0	1051.6	135°	348.0	346.5	345.0	345.0	341.0	340.0	339.5
1169.0	1179.3	1193.5	1193.5	1193.5	137.5°	369.0	368.0	367.0	367.0	364.0	363.5	363.2
1254.1	1279.9	1307.0	1318.6	1326.4	140°	390.0	389.5	389.0	388.0	386.0	385.5	385.2
1278.7	1316.1	1358.6	1387.0	1406.4	142.5°	412.0	411.0	410.0	410.0	407.0	407.5	407.8
1318.6	1361.2	1409.0	1441.2	1476.1	145°	434.0	433.0	432.0	431.0	428.0	428.0	428.0
1366.4	1403.8	1452.8	1496.7	1547.0	147.5°	454.0	453.5	453.0	452.0	448.0	447.5	447.2
1406.4	1455.4	1508.3	1565.1	1629.6	150°	471.0	470.5	470.0	469.0	465.0	464.5	464.2
1467.0	1518.6	1576.7	1652.8	1731.5	152.5°	487.0	486.5	486.0	485.0	482.0	482.5	482.8
1534.1	1589.6	1650.2	1726.4	1818.0	155°	504.0	503.5	503.0	503.0	501.0	501.5	501.8
1592.2	1641.2	1707.0	1785.7	1890.2	157.5°	519.0	519.0	519.0	519.0	516.0	516.5	516.8
1647.7	1692.8	1770.2	1850.2	1953.5	160°	532.0	532.0	532.0	532.0	529.0	529.0	529.0
1721.2	1756.0	1833.5	1925.1	2034.7	162.5°	542.0	541.5	541.0	541.0	538.0	538.5	538.8
1797.3	1845.1	1930.2	2034.7	2157.3	165°	553.0	552.5	552.0	552.0	548.0	548.5	548.8
1900.6	1957.3	2061.8	2180.5	2335.4	167.5°	560.0	560.0	560.0	561.0	558.0	558.5	558.8
2042.5	2101.8	2212.8	2345.7	2504.4	170°	565.0	565.5	566.0	567.0	565.0	565.5	565.8
2216.7	2274.7	2370.2	2501.8	2650.2	172.5°	569.0	568.5	568.0	569.0	567.0	568.0	568.5
2379.2	2459.2	2545.7	2643.7	2761.2	175°	573.0	572.5	572.0	572.0	569.0	569.5	569.8
2556.0	2617.9	2690.2	2727.6	2793.4	177.5°	577.0	577.0	577.0	578.0	574.0	574.5	574.8
2607.6	2659.2	2722.5	2722.5	2714.7	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
2455.4	2534.1	2589.6	2589.6	2523.8								
2135.4	2267.0	2321.2	2354.7	2270.9								
1735.4	1899.3	1988.3	2016.7	1864.4								
1273.5	1378.0	1389.6	1393.5	1188.3								
734.2	816.7	846.4	889.0	712.2								
425.8	456.8	507.1	525.1	433.5								
238.7	241.3	241.3	223.2	181.9								
0.0	0.0	0.0	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-600-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

345°	347.5°	350°	352.5°		355°	359°	360°
126.0	125.5	125.0	124.5	0°	901.9	901.9	901.9
149.0	148.5	148.0	147.5	2.5°	970.3	954.8	957.4
172.0	171.5	171.0	170.5	5°	956.1	934.2	926.4
196.0	195.8	195.5	195.2	7.5°	907.1	869.6	858.0
221.0	220.8	220.5	220.2	10°	847.7	800.0	790.9
247.0	246.8	246.5	246.2	12.5°	814.2	760.0	748.4
270.0	269.8	269.5	269.2	15°	803.8	752.2	739.3
293.0	292.8	292.5	292.2	17.5°	834.8	779.3	763.8
317.0	316.2	315.5	314.8	20°	905.8	840.0	821.9
339.0	338.5	338.0	337.5	22.5°	1011.6	936.7	914.8
363.0	362.2	361.5	360.8	25°	1154.8	1069.6	1047.7
385.0	384.5	384.0	383.5	27.5°	1301.9	1199.9	1171.6
408.0	407.5	407.0	406.5	30°	1387.0	1292.8	1264.5
428.0	427.5	427.0	426.5	32.5°	1473.5	1383.2	1349.6
447.0	446.2	445.5	444.8	35°	1565.1	1473.5	1439.9
464.0	463.5	463.0	462.5	37.5°	1672.2	1594.8	1565.1
483.0	482.2	481.5	480.8	40°	1799.9	1729.0	1686.4
502.0	501.5	501.0	500.5	42.5°	1905.7	1839.9	1799.9
517.0	516.5	516.0	515.5	45°	1983.1	1927.7	1886.4
529.0	528.5	528.0	527.5	47.5°	2054.1	2011.5	1970.2
539.0	538.2	537.5	536.8	50°	2143.1	2107.0	2078.6
549.0	548.5	548.0	547.5	52.5°	2263.1	2250.2	2225.7
559.0	558.2	557.5	556.8	55°	2439.9	2468.3	2433.4
566.0	565.2	564.5	563.8	57.5°	2607.6	2628.3	2612.8
569.0	568.2	567.5	566.8	60°	2739.2	2710.8	2691.5
570.0	569.8	569.5	569.2	62.5°	2806.3	2736.6	2704.4
575.0	574.5	574.0	573.5	65°	2810.2	2703.1	2654.1
576.0	576.0	576.0	576.0	67.5°	2722.5	2597.3	2540.5
				70°	2486.3	2341.8	2267.0
				72.5°	2088.9	1867.0	1816.7
				75°	1531.5	1259.3	1229.6
				77.5°	927.7	723.8	685.1
				80°	522.6	415.5	402.6
				82.5°	296.8	233.5	246.4
				85°	121.3	60.6	67.1
				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)