

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: P228433

Luminaire Tested: **ISC-AF-XXX-LED-E1-SL4-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-XXX-LED-E1-SL4-XXB
Description: IMPACT ELITE LED CYLINDER LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 573.9 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

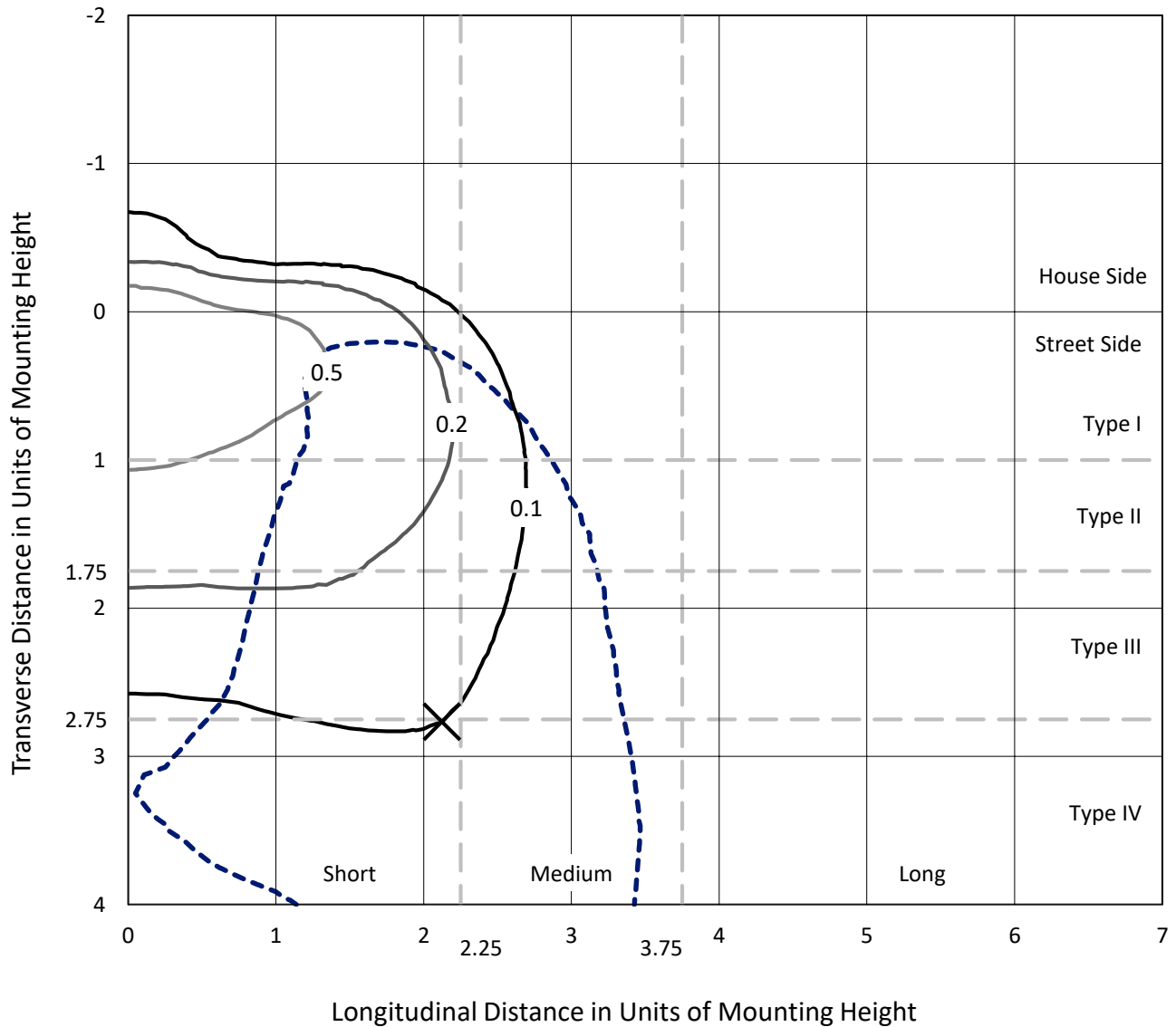
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

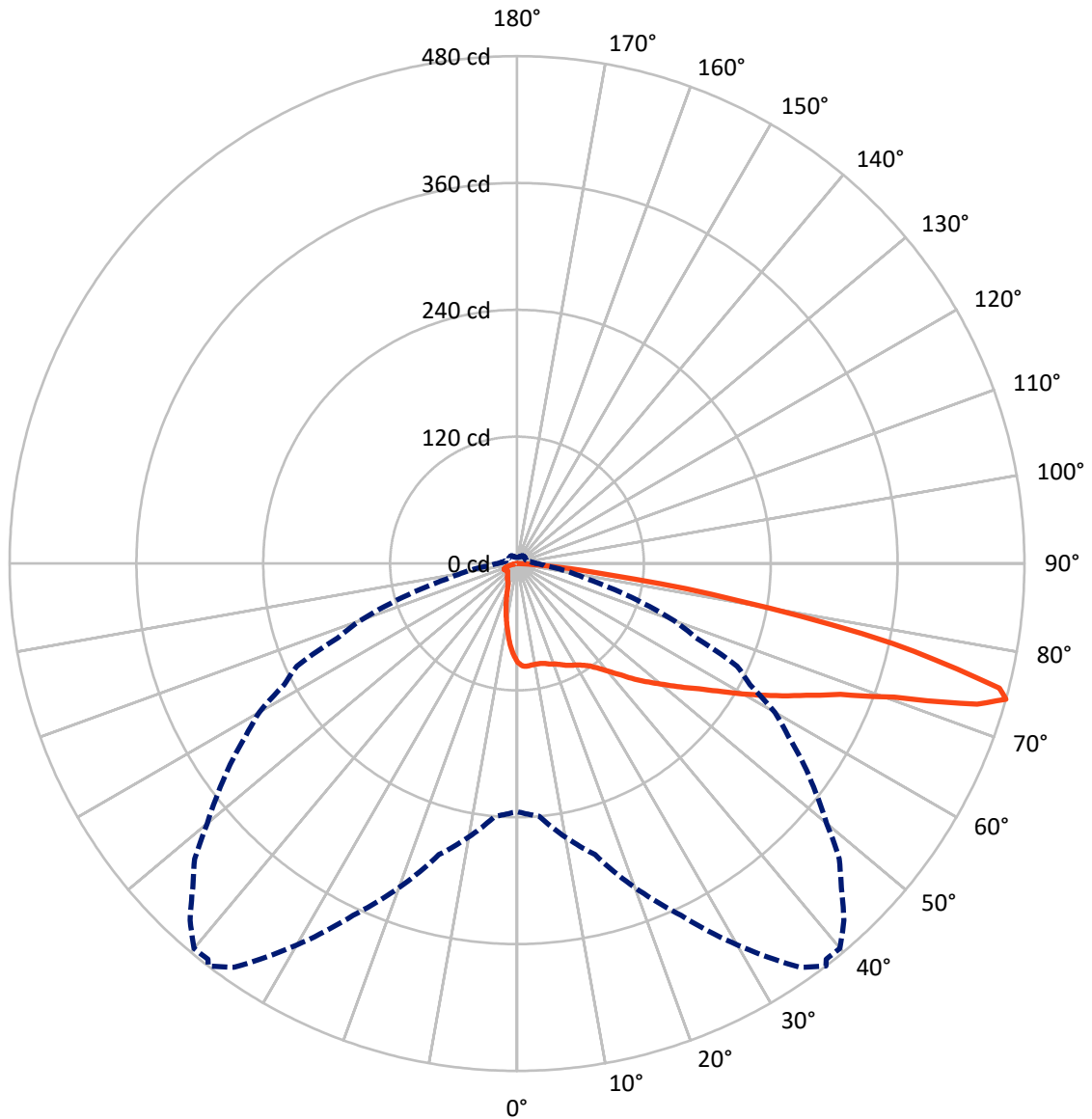
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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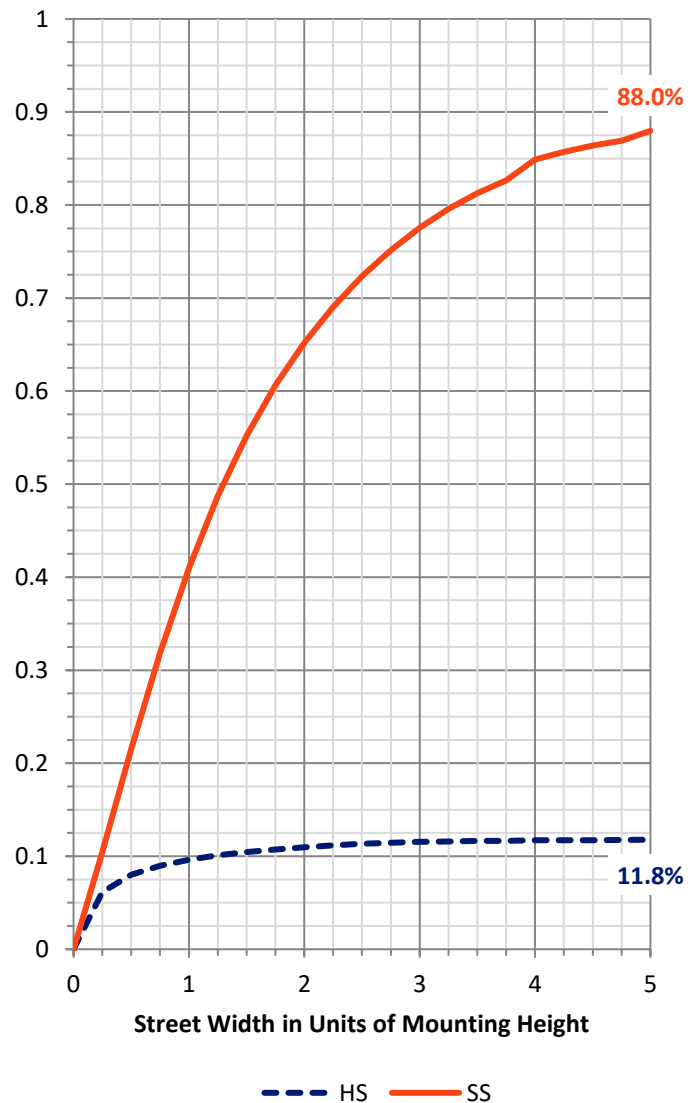
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	68.0	0.0	68.0
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	505.8	0.0	505.8
	% Fixture	88.1	0.0	88.1
Total	Lumens	573.9	0.0	573.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	1.4
10°-20°	20.8	3.6
20°-30°	32.2	5.6
30°-40°	47.7	8.3
40°-50°	73.4	12.8
50°-60°	108.6	18.9
60°-70°	144.7	25.2
70°-80°	124.9	21.8
80°-90°	13.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	573.9	100.0
0°-180°	573.9	100.0



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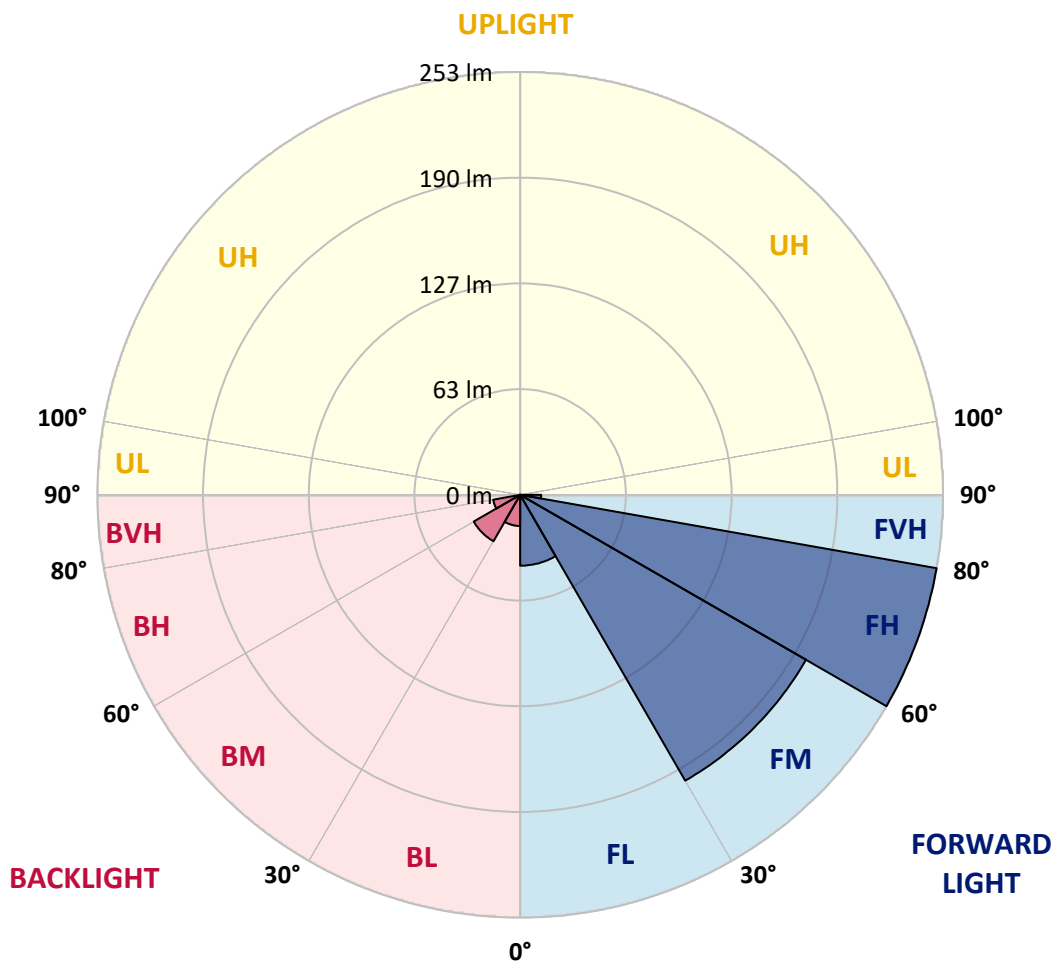
CATALOG NUMBER: ISC-AF-XXX-LED-E1-SL4-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	42.4	7.4			
FM	(30°-60°)	197.7	34.4			
FH	(60°-80°)	253.2	44.1			G0/660
FVH	(80°-90°)	12.6	2.2			G1/100
BL	(0°-30°)	18.7	3.3	B0/110		
BM	(30°-60°)	32.1	5.6	B0/220		
BH	(60°-80°)	16.4	2.9	B0/110		G0/110
BVH	(80°-90°)	0.9	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	99.0	98.8	98.4	98.1	97.7	97.1	97.7	96.9	96.5	96.9	96.1
5°	100.8	100.5	100.0	99.2	98.8	97.7	98.4	97.3	97.1	97.5	96.5
7.5°	101.0	100.5	99.8	98.8	98.4	97.1	97.5	96.3	95.7	96.3	95.5
10°	100.2	100.0	99.4	97.7	97.3	96.9	96.7	95.7	95.5	95.3	95.1
12.5°	99.2	99.2	98.8	98.1	97.9	97.1	97.3	96.5	96.7	96.3	95.7
15°	98.8	98.6	99.0	99.4	99.4	98.1	99.0	98.4	97.9	98.1	97.5
17.5°	98.4	98.6	100.0	101.0	101.4	100.0	101.4	100.0	99.2	100.2	99.2
20°	98.1	98.8	101.4	103.3	103.5	101.4	103.5	101.4	101.4	102.6	100.8
22.5°	99.2	100.2	103.9	106.1	106.5	103.7	106.3	103.5	103.5	104.5	102.6
25°	102.6	103.7	107.8	110.2	109.8	106.7	109.0	106.3	106.1	107.4	104.8
27.5°	107.1	108.6	112.5	114.7	113.1	109.0	112.5	108.4	108.4	110.4	106.9
30°	113.5	114.7	118.0	118.3	116.4	111.4	115.3	110.8	110.2	113.5	109.3
32.5°	120.6	121.5	124.1	122.5	119.8	114.7	119.2	113.8	113.5	117.2	112.3
35°	128.2	129.0	129.8	127.3	124.7	119.2	124.1	118.8	118.5	122.5	117.8
37.5°	135.8	135.8	135.8	132.9	131.1	125.8	130.3	126.0	125.6	129.8	125.4
40°	142.1	142.5	141.9	139.1	138.2	134.3	138.2	134.3	135.0	138.8	135.2
42.5°	147.2	147.6	147.8	145.5	146.4	144.2	147.2	144.4	144.6	148.9	146.8
45°	152.3	152.1	153.9	153.2	155.8	156.0	157.7	156.6	157.1	160.3	159.7
47.5°	157.7	156.6	158.6	161.3	166.1	167.6	168.7	169.1	170.8	172.3	173.8
50°	162.9	161.8	163.1	169.3	176.8	180.0	180.2	182.4	184.3	186.5	189.5
52.5°	168.2	167.4	168.7	177.5	189.5	194.0	193.3	196.9	199.7	202.0	207.0
55°	173.8	173.0	174.2	187.3	203.0	209.2	208.5	213.7	219.0	219.8	225.5
57.5°	179.1	178.1	181.7	198.9	219.0	228.4	225.5	233.3	238.6	238.0	245.8
60°	184.9	184.1	189.9	213.0	239.2	251.3	246.8	257.4	261.1	259.5	266.8
62.5°	190.5	190.3	200.0	229.6	263.6	275.4	271.3	280.5	283.1	281.1	284.8
65°	195.7	196.9	210.8	246.0	287.1	300.6	295.1	304.3	307.3	305.8	312.0
67.5°	204.2	205.7	224.3	267.0	316.3	330.2	325.5	335.1	339.6	339.2	346.1
70°	216.9	219.6	244.3	296.8	360.7	378.5	375.8	387.7	398.5	397.7	404.6
72.5°	239.0	243.5	277.1	343.1	433.5	455.2	452.1	458.8	456.8	441.2	428.6
74°	234.7	240.2	285.2	367.3	466.3	480.1	475.1	475.3	457.8	433.9	413.6
75°	219.0	224.8	273.4	364.3	463.9	471.5	464.4	455.6	434.3	410.2	385.1
77.5°	150.3	157.7	201.0	294.2	373.5	363.2	361.5	344.8	316.7	289.5	257.4
80°	76.9	82.2	103.9	153.9	221.6	211.3	214.7	201.2	177.9	158.1	125.4
82.5°	18.4	19.7	30.7	59.5	96.1	87.9	89.1	78.9	65.4	53.4	41.3
85°	9.6	10.9	15.0	16.5	25.3	26.2	25.5	24.7	20.2	16.9	14.8
87.5°	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.2	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: ISC-AF-XXX-LED-E1-SL4-XXB

CANDELA DISTRIBUTION (continued):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	96.7	96.3	96.7	95.3	96.1	94.9	95.3	94.3	94.7	93.9	94.1
5°	97.1	96.1	96.7	95.5	95.7	94.9	94.7	94.3	94.1	93.4	93.0
7.5°	96.1	95.1	94.9	94.5	93.9	94.1	93.2	93.0	92.4	92.4	91.0
10°	94.9	95.1	93.9	94.3	93.2	93.4	92.0	92.4	91.2	92.2	90.2
12.5°	95.7	96.1	94.9	95.5	93.6	94.1	92.8	93.4	92.0	93.0	90.6
15°	97.7	97.5	97.1	97.1	95.1	96.1	94.5	94.9	93.4	94.7	92.2
17.5°	99.4	99.2	98.6	98.4	97.1	97.3	95.7	96.7	94.9	96.1	93.4
20°	101.4	100.2	100.0	99.8	98.4	98.4	97.3	97.7	96.1	97.3	94.3
22.5°	102.9	102.0	101.8	101.0	99.8	100.2	98.8	99.0	97.3	98.6	96.1
25°	105.3	104.1	104.1	102.9	102.2	102.0	101.2	101.8	100.0	101.0	98.6
27.5°	108.4	106.1	106.9	105.7	105.3	105.0	104.5	105.0	103.7	104.3	102.0
30°	111.4	108.4	109.8	108.0	108.8	108.0	108.6	108.0	108.0	108.0	106.9
32.5°	115.5	111.9	114.5	111.9	113.5	112.3	114.5	113.1	114.0	113.8	113.3
35°	121.3	117.0	120.6	117.2	120.2	118.5	121.5	120.9	122.5	121.7	122.5
37.5°	129.0	124.5	128.8	125.6	129.2	126.6	130.9	130.5	134.1	132.9	134.1
40°	138.6	135.4	138.6	136.3	140.1	139.1	143.6	143.8	147.8	147.2	148.7
42.5°	149.4	147.0	150.3	148.9	152.8	153.6	158.8	160.1	164.0	165.0	165.2
45°	160.9	160.5	163.1	164.4	168.2	170.8	175.3	178.5	182.8	185.2	184.7
47.5°	174.4	176.2	177.9	181.1	184.5	189.9	194.4	198.5	203.4	204.9	205.5
50°	189.7	192.6	194.2	198.7	202.0	208.7	214.9	220.0	225.5	224.8	225.3
52.5°	205.7	209.6	211.8	217.1	221.6	229.3	234.7	239.6	246.2	244.5	243.9
55°	223.5	229.3	231.0	237.0	240.9	248.8	253.5	262.1	264.8	263.2	259.5
57.5°	242.3	249.2	251.1	259.3	261.3	269.8	273.8	279.7	282.0	279.3	274.6
60°	263.8	270.1	271.5	278.8	281.4	289.3	292.3	297.5	299.1	292.3	285.6
62.5°	285.2	291.6	292.6	298.9	301.5	308.4	311.8	314.8	313.9	303.9	295.5
65°	309.6	315.9	318.0	324.5	325.9	331.1	333.9	330.4	328.5	313.3	303.9
67.5°	348.4	355.1	356.0	357.4	357.2	354.7	353.3	341.6	333.0	304.9	291.4
70°	399.5	394.6	384.8	373.7	365.6	351.0	342.5	318.2	300.2	268.7	246.0
72.5°	408.7	392.6	368.8	349.7	330.0	307.1	288.7	252.1	226.7	193.7	169.7
74°	382.5	356.4	331.3	304.5	281.8	248.4	229.8	183.4	158.4	124.9	95.7
75°	351.0	320.4	292.1	258.0	236.8	196.7	179.1	129.2	104.1	74.2	49.9
77.5°	223.9	187.3	160.3	120.9	104.3	72.0	52.7	32.8	24.2	21.2	18.4
80°	100.5	71.6	56.8	39.2	32.8	25.1	21.2	17.2	15.7	13.7	13.1
82.5°	32.1	25.7	24.4	21.9	21.9	17.6	15.0	11.8	10.7	9.2	8.4
85°	13.9	13.1	13.5	12.5	12.7	9.6	7.7	5.8	5.8	4.1	3.7
87.5°	0.4	0.0	0.2	0.0	0.4	0.0	0.2	0.0	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	93.2	93.6	93.4	92.6	92.4	91.8	90.2	90.4	89.6	90.2	89.1
5°	92.4	92.2	91.2	90.2	89.1	87.9	86.7	86.3	85.5	85.1	84.4
7.5°	91.0	90.2	88.7	87.1	85.5	83.8	83.0	81.4	81.0	79.5	79.3
10°	90.6	89.1	87.5	85.3	82.8	80.1	79.9	77.3	77.1	74.8	74.2
12.5°	91.6	89.6	87.5	84.9	81.8	78.3	78.3	74.4	74.2	70.9	69.9
15°	93.2	90.8	88.1	85.1	81.2	76.7	76.5	72.0	71.6	67.7	66.4
17.5°	94.7	91.6	88.9	84.9	80.4	75.2	74.2	69.7	68.7	64.2	62.6
20°	95.7	92.2	89.1	84.4	78.9	72.8	71.4	66.7	64.8	60.3	57.9
22.5°	97.1	93.6	89.6	84.2	78.1	70.9	67.7	63.4	60.7	56.0	52.7
25°	99.0	96.1	91.0	84.9	77.3	69.0	64.8	60.3	56.4	51.7	47.0
27.5°	102.0	99.0	93.2	85.7	77.1	67.1	62.4	56.8	52.1	47.0	41.5
30°	106.3	103.1	96.9	88.1	77.3	65.6	59.7	53.8	48.2	42.2	36.6
32.5°	111.9	109.3	101.6	90.6	78.3	64.2	57.4	50.5	43.7	38.0	33.0
35°	119.6	117.8	108.2	95.5	80.4	63.6	55.0	47.6	39.9	34.1	28.7
37.5°	130.9	128.6	117.8	102.6	83.8	63.2	53.4	43.9	36.6	30.4	25.9
40°	145.3	142.1	129.2	111.2	89.1	63.4	51.9	41.1	33.9	27.2	23.5
42.5°	162.4	157.7	143.1	121.7	94.5	63.8	51.0	38.6	31.7	24.7	21.9
45°	181.7	176.4	159.7	134.8	102.2	65.0	50.3	36.4	29.8	22.7	20.8
47.5°	200.6	195.2	176.6	147.8	110.2	66.9	50.7	35.2	28.5	21.7	19.5
50°	219.0	213.5	191.6	159.7	117.0	69.5	52.5	35.4	28.3	21.2	18.8
52.5°	235.3	228.4	204.5	168.9	121.9	71.2	54.0	36.0	28.5	21.0	18.6
55°	251.5	242.8	214.7	176.2	124.9	71.4	54.0	36.2	28.7	21.0	18.4
57.5°	263.8	253.7	222.7	180.4	126.0	70.3	52.7	35.2	27.4	20.8	18.0
60°	271.5	260.8	228.2	183.2	124.5	65.8	45.8	31.1	24.2	19.3	16.7
62.5°	277.9	267.0	230.0	178.5	111.9	52.3	35.8	25.3	20.2	17.2	15.4
65°	279.5	266.4	217.9	157.7	87.5	36.2	25.9	19.9	16.5	15.2	13.9
67.5°	256.8	241.1	183.2	123.5	59.5	24.9	19.3	16.3	14.1	13.5	13.1
70°	208.7	191.6	134.1	80.8	33.2	17.4	14.8	13.5	12.2	12.2	11.6
72.5°	134.6	116.8	68.7	34.5	16.9	13.3	12.0	11.6	10.5	10.7	10.0
74°	68.7	53.6	28.0	18.2	13.9	11.8	10.7	10.5	9.4	9.6	9.0
75°	34.9	27.6	19.7	15.2	12.9	11.2	9.8	9.8	8.6	8.8	8.2
77.5°	16.3	15.7	13.5	12.0	10.9	9.4	8.2	8.0	6.6	7.1	6.2
80°	11.4	11.4	10.5	10.0	9.0	7.7	6.2	6.2	4.9	5.1	4.5
82.5°	6.4	6.0	6.0	6.9	7.1	5.8	4.5	4.3	3.7	3.7	3.0
85°	2.8	3.2	3.9	4.7	5.1	4.5	3.2	3.0	1.9	1.9	1.0
87.5°	0.0	0.2	0.2	0.4	0.8	0.8	0.0	0.4	0.0	0.2	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



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CATALOG NUMBER: ISC-AF-XXX-LED-E1-SL4-XXB

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2.5°	89.6	88.5	89.1	88.1	88.5	87.5	87.9	87.3	86.5	85.7	85.5
5°	83.8	83.0	82.8	81.6	81.8	81.0	80.1	79.1	77.7	76.1	75.4
7.5°	77.3	77.1	75.6	75.0	74.2	73.2	71.8	70.1	67.5	65.2	63.6
10°	71.8	71.2	69.0	67.9	66.7	65.6	63.4	61.1	57.4	53.8	51.9
12.5°	67.1	66.2	63.4	62.2	60.3	58.9	56.4	53.4	48.2	43.1	40.7
15°	63.2	61.9	58.7	56.8	54.2	52.9	50.1	45.8	39.7	34.3	31.1
17.5°	58.7	57.0	53.6	51.2	48.7	46.2	43.5	39.0	31.9	27.0	23.8
20°	53.8	51.7	48.0	44.8	42.0	39.9	37.0	32.5	25.5	21.7	19.9
22.5°	48.7	45.2	42.0	39.2	36.0	33.9	31.1	27.0	21.7	19.5	18.8
25°	43.3	39.4	36.2	33.5	30.4	28.5	26.2	22.9	19.7	19.0	19.0
27.5°	38.0	34.1	31.1	28.3	25.7	24.4	22.3	20.2	18.6	18.8	19.0
30°	33.0	29.2	26.4	24.2	21.9	21.0	19.3	18.0	17.8	18.4	18.6
32.5°	28.7	25.3	22.7	21.0	19.0	18.6	17.2	16.5	17.2	18.0	17.8
35°	25.1	22.3	19.7	18.6	16.9	16.7	15.7	15.2	16.1	17.2	17.2
37.5°	22.3	19.7	17.8	16.9	15.7	15.4	14.5	14.1	14.8	16.3	16.7
40°	19.9	18.4	16.5	15.7	14.8	14.3	13.9	13.5	13.7	15.7	15.9
42.5°	18.4	17.4	15.7	15.2	14.1	13.9	13.3	12.9	13.1	14.5	15.2
45°	17.4	16.5	15.0	14.8	13.7	13.5	12.9	12.5	12.7	13.9	14.5
47.5°	16.5	15.7	14.3	13.9	13.3	13.1	12.7	12.2	12.2	13.5	14.1
50°	16.1	15.2	13.9	13.5	12.9	12.7	12.2	11.8	12.0	13.1	13.5
52.5°	15.9	14.8	13.7	13.1	12.7	12.2	11.8	11.4	11.6	12.7	13.1
55°	15.9	14.5	13.7	13.1	12.5	11.8	11.6	10.9	11.4	12.2	12.9
57.5°	15.9	14.5	13.7	13.1	12.7	12.0	11.6	11.2	11.4	12.2	12.9
60°	15.4	14.3	13.9	13.3	13.1	12.5	12.2	11.8	11.8	12.9	13.9
62.5°	14.8	14.1	13.9	13.5	13.5	13.1	13.1	12.7	12.7	13.9	15.0
65°	13.9	13.5	13.7	13.5	13.5	13.5	13.3	13.3	13.3	14.3	15.7
67.5°	13.1	12.9	13.1	13.1	13.3	13.1	13.3	13.1	13.1	14.1	15.4
70°	11.8	11.8	12.0	11.8	12.0	12.0	12.2	12.2	12.2	12.9	14.1
72.5°	10.3	10.0	10.3	10.0	10.5	10.0	10.5	10.7	10.5	10.7	11.4
74°	9.2	9.0	9.2	9.0	9.4	9.0	9.2	9.2	9.0	7.3	6.2
75°	8.4	8.2	8.4	8.2	8.6	8.2	8.6	8.4	8.0	5.3	5.1
77.5°	6.6	6.0	6.6	6.0	6.4	5.8	6.2	5.3	4.1	3.9	3.9
80°	4.9	4.3	4.7	4.1	3.9	3.0	3.2	3.0	2.8	3.0	3.0
82.5°	3.0	2.1	2.6	1.9	2.4	1.7	2.1	1.9	1.7	1.7	1.7
85°	1.5	1.0	1.5	0.8	1.3	0.8	1.0	1.0	0.6	0.6	0.6
87.5°	0.2	0.0	0.4	0.0	0.4	0.0	0.2	0.2	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

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CANDELA DISTRIBUTION (continued):

	175°	180°
0°	93.6	93.6
2.5°	84.9	85.1
5°	74.4	75.0
7.5°	62.8	63.2
10°	50.5	51.0
12.5°	39.0	39.4
15°	29.4	28.9
17.5°	22.5	22.1
20°	19.0	19.0
22.5°	18.6	18.4
25°	18.8	18.6
27.5°	18.8	18.6
30°	18.4	18.2
32.5°	17.8	17.6
35°	17.2	17.2
37.5°	16.7	16.9
40°	16.1	16.3
42.5°	15.4	15.7
45°	14.8	15.0
47.5°	14.1	14.1
50°	13.3	13.3
52.5°	13.1	13.1
55°	13.1	13.1
57.5°	13.5	13.5
60°	14.8	15.0
62.5°	17.4	17.6
65°	19.9	20.4
67.5°	20.2	20.8
70°	19.5	20.2
72.5°	13.5	13.5
74°	6.0	5.8
75°	5.1	4.9
77.5°	3.9	3.9
80°	2.8	2.6
82.5°	1.5	1.5
85°	0.4	0.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)