

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: P271551

Luminaire Tested: **ISS-AF-XXX-LED-E1-RW-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-XXX-LED-E1-RW-7027-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUELED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 549.6 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G0

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

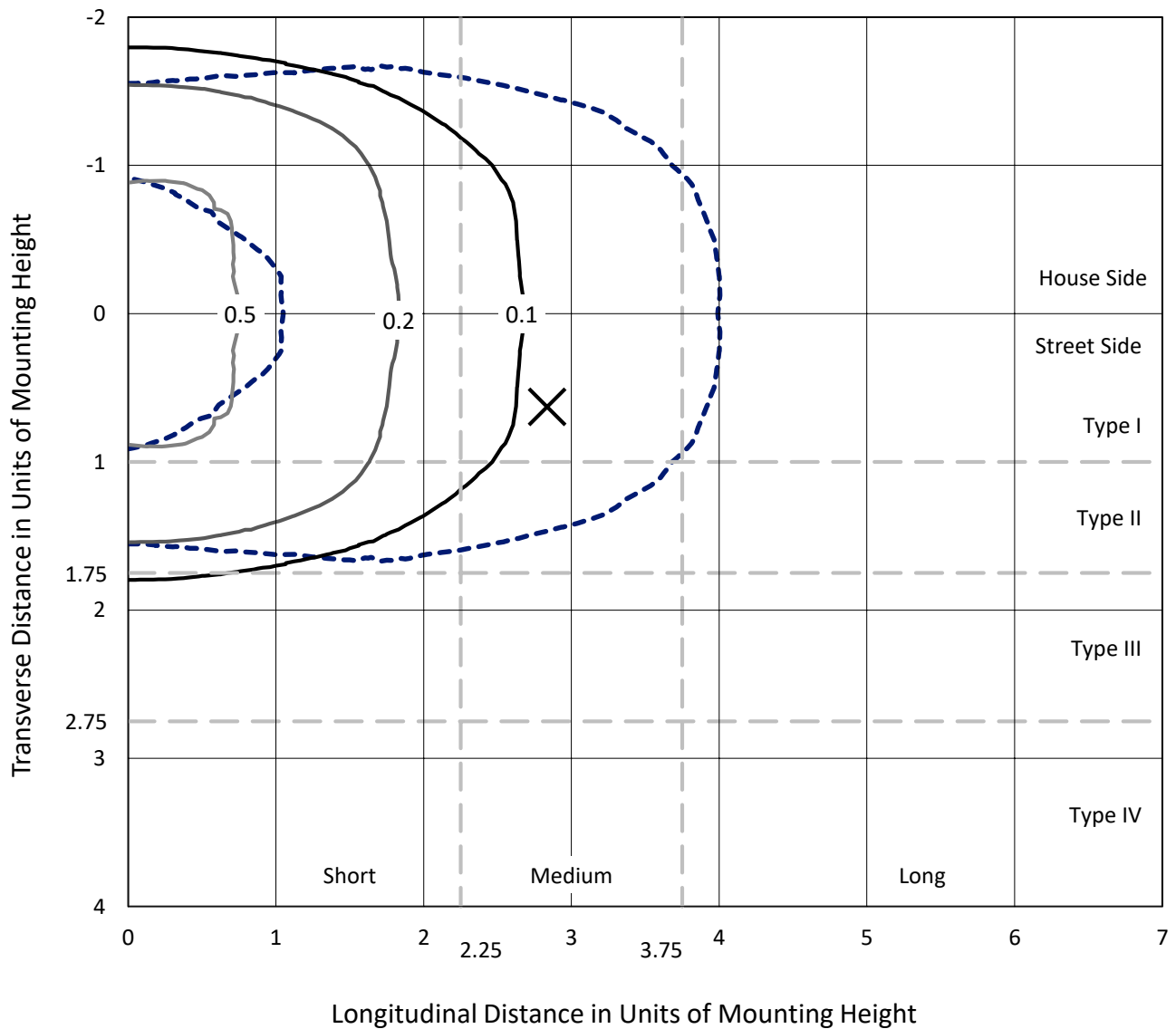


REPORT NUMBER: P271551

CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

Iso-Footcandle Lines of Horizontal Illumination

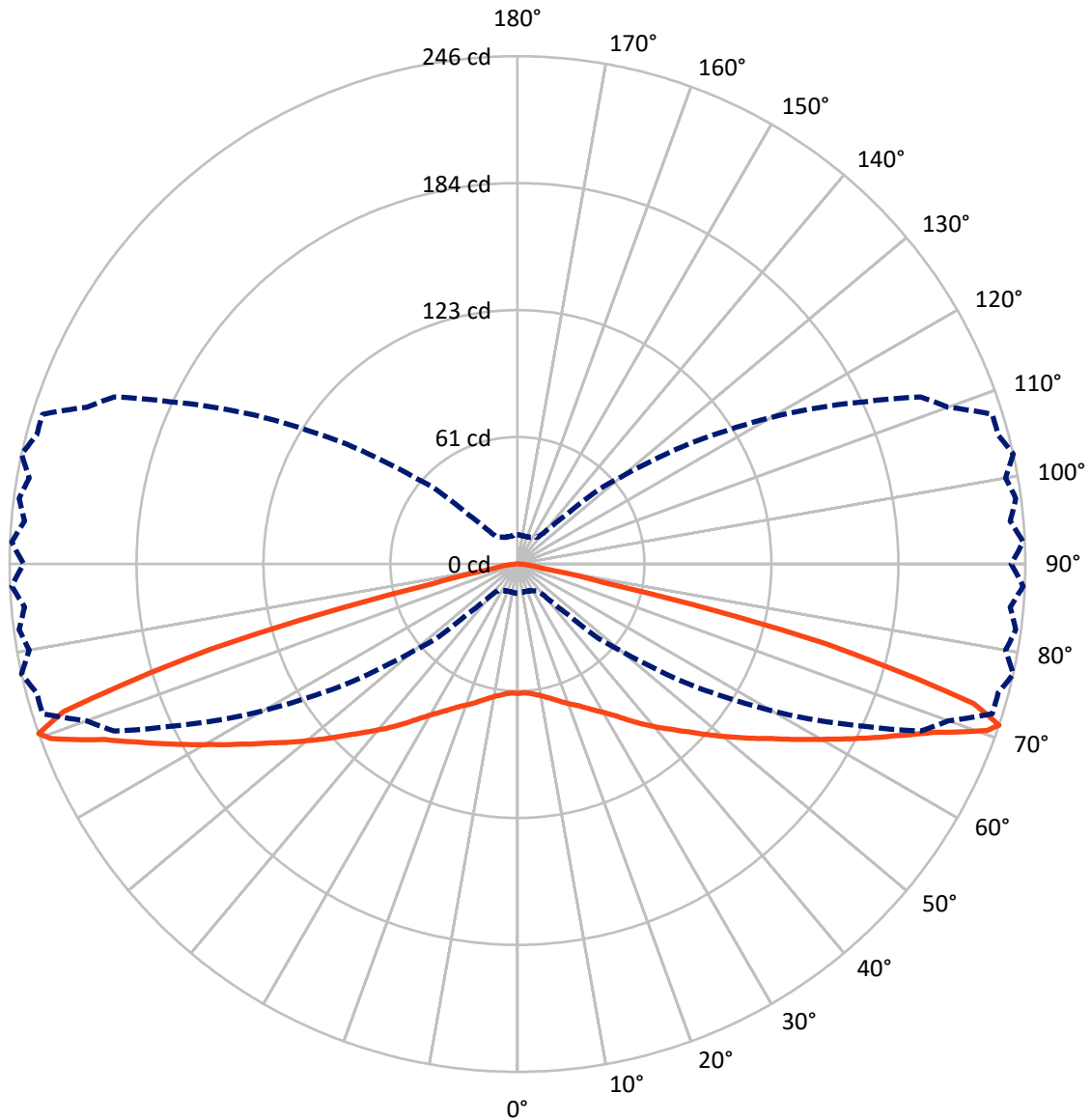
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P271551
CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P271551

CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

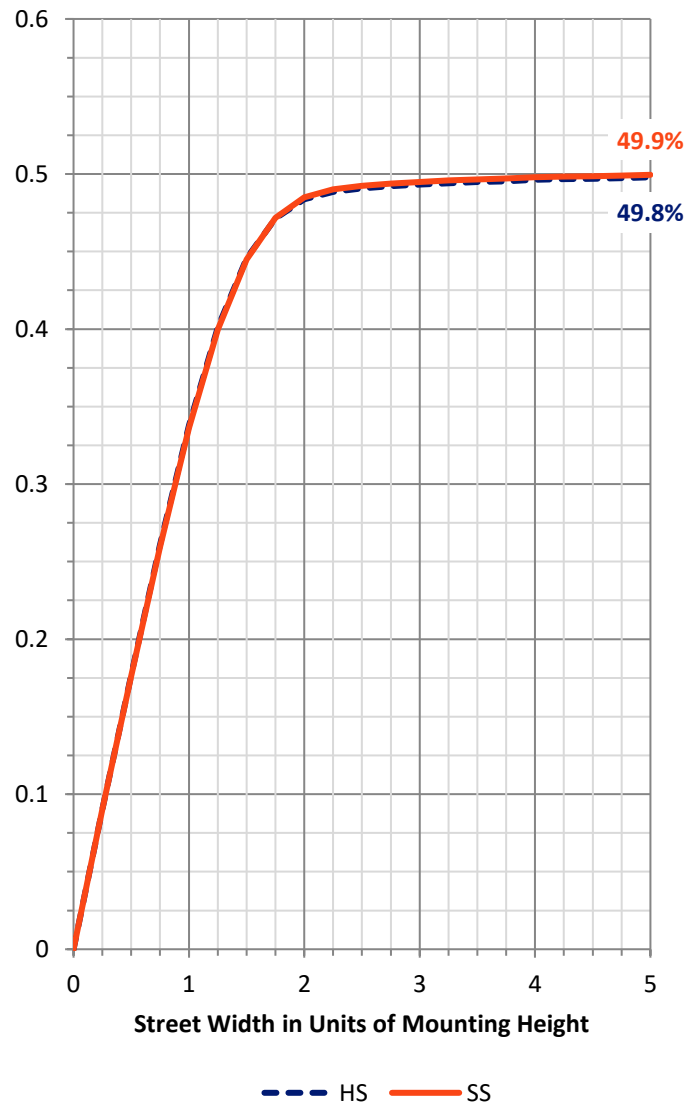
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	274.8	0.0	274.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	274.8	0.0	274.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	549.6	0.0	549.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	1.1
10°-20°	18.9	3.4
20°-30°	35.4	6.4
30°-40°	61.5	11.2
40°-50°	100.4	18.3
50°-60°	138.6	25.2
60°-70°	131.4	23.9
70°-80°	54.1	9.8
80°-90°	3.3	0.6
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°	549.6	100.0
0°-180°	549.6	100.0



REPORT NUMBER: P271551

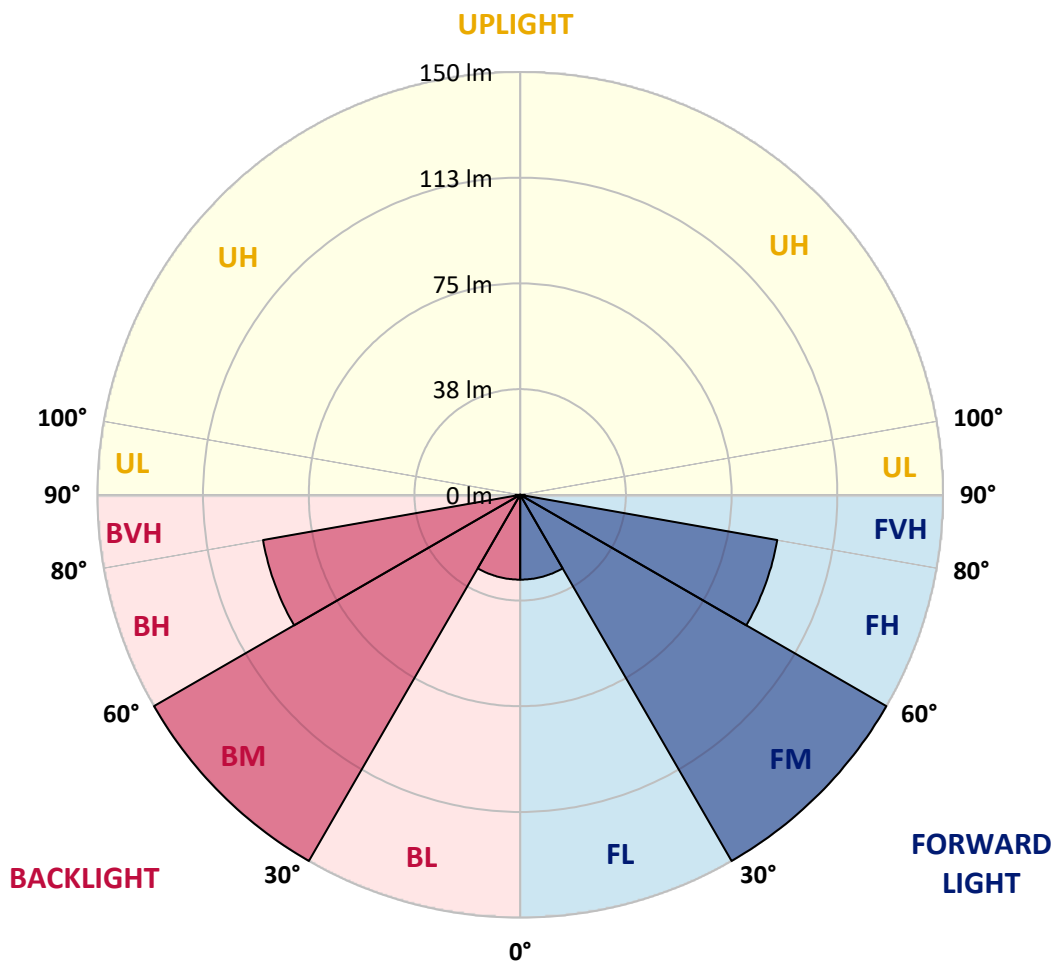
CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.1	5.5			
FM	(30°-60°)	150.3	27.3			
FH	(60°-80°)	92.8	16.9			G0/660
FVH	(80°-90°)	1.6	0.3			G0/10
BL	(0°-30°)	30.1	5.5	B0/110		
BM	(30°-60°)	150.3	27.3	B0/220		
BH	(60°-80°)	92.8	16.9	B0/110		G0/110
BVH	(80°-90°)	1.6	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Medium





REPORT NUMBER: P271551

CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	62.4	62.3	62.4	62.4	62.6	62.6	62.6	62.6	62.4	62.8	62.8
5°	62.4	62.4	62.6	62.6	62.9	63.3	62.8	62.9	63.2	62.9	63.3
7.5°	62.4	62.4	62.4	62.8	63.3	63.7	63.3	63.5	63.9	63.9	64.2
10°	61.8	61.6	62.1	62.8	63.7	64.2	64.0	64.8	64.6	64.8	65.1
12.5°	60.9	60.9	61.6	62.8	64.4	64.8	64.9	65.3	65.8	65.7	66.3
15°	61.2	61.4	62.1	63.5	65.5	65.8	66.0	66.0	66.9	66.6	67.7
17.5°	62.4	62.6	63.3	64.8	67.1	67.1	67.4	67.7	69.0	68.2	69.7
20°	64.4	64.6	65.3	66.9	69.1	69.0	69.3	69.7	71.3	70.6	72.0
22.5°	66.7	67.1	68.0	69.9	72.2	71.1	71.9	72.7	74.2	72.9	75.0
25°	70.1	70.6	71.4	73.5	76.1	74.8	75.5	76.1	77.8	76.1	78.1
27.5°	74.8	75.2	75.9	78.1	80.2	79.3	79.7	80.1	82.3	80.2	82.5
30°	80.4	80.9	81.7	83.7	85.9	84.4	85.2	85.5	87.3	85.2	87.1
32.5°	87.6	88.0	88.9	90.8	92.6	90.4	90.5	91.2	93.0	91.0	93.0
35°	95.8	96.3	97.6	99.7	101.0	97.6	97.6	97.6	100.1	97.4	99.5
37.5°	104.7	105.0	106.4	108.7	110.0	106.3	106.3	106.4	108.7	105.6	107.5
40°	113.7	114.8	116.4	118.7	119.7	115.3	115.7	115.5	118.0	114.4	116.4
42.5°	122.8	123.7	126.1	128.6	130.0	125.5	125.8	125.1	127.6	123.9	125.5
45°	130.6	131.3	134.3	137.9	139.9	135.4	135.4	135.4	137.9	133.2	135.1
47.5°	137.0	137.5	140.7	146.0	149.2	144.6	145.0	144.3	148.1	142.3	145.0
50°	141.6	141.8	145.7	151.7	157.3	153.3	153.7	154.1	157.7	152.6	155.0
52.5°	143.0	143.4	148.0	155.1	163.4	160.7	162.6	163.4	166.6	161.2	164.5
55°	137.9	138.8	145.7	156.5	167.5	166.6	169.0	170.5	174.7	170.0	173.6
57.5°	120.8	121.9	131.5	149.2	168.4	169.9	173.2	175.6	181.5	178.9	182.6
60°	96.4	97.4	107.2	128.5	157.0	166.0	173.5	180.1	186.3	186.8	191.8
62.5°	66.3	67.6	77.0	97.4	132.1	143.9	154.7	165.7	176.1	188.6	195.0
65°	32.4	33.1	41.1	60.7	96.9	112.1	124.7	140.2	149.8	167.9	178.3
67.5°	17.9	17.9	19.1	25.3	51.8	66.7	80.2	99.9	109.8	131.9	145.2
70°	14.9	14.9	14.6	15.5	19.7	23.3	30.3	41.5	55.2	77.5	89.5
71°	14.2	14.0	13.8	14.2	15.8	16.6	19.4	25.5	34.6	53.4	65.3
72.5°	13.3	12.9	12.4	12.6	13.5	13.5	14.0	14.9	18.3	25.2	33.7
75°	11.5	11.0	10.6	10.6	10.7	10.9	11.0	11.5	11.7	11.9	13.5
77.5°	9.4	9.2	8.5	8.5	8.4	8.5	8.9	9.2	8.7	9.4	9.6
80°	7.3	6.7	6.6	6.6	6.4	6.2	6.2	6.2	6.4	6.7	6.8
82.5°	4.5	4.2	4.3	4.2	4.0	4.0	4.0	4.0	4.2	4.2	4.5
85°	2.2	2.2	2.3	2.2	1.9	1.9	1.7	1.4	1.7	1.4	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P271551

CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	62.3	62.6	62.4	62.6	62.3	62.6	62.1	62.6	62.4	62.6	62.3
5°	62.8	63.3	62.8	63.5	62.8	63.5	62.8	63.5	62.9	63.5	62.8
7.5°	63.3	64.4	63.7	64.6	63.7	64.8	63.7	64.8	64.0	64.9	63.7
10°	64.4	65.7	64.6	65.7	64.6	65.8	64.6	66.0	64.9	66.5	64.8
12.5°	65.3	66.7	65.7	67.1	65.5	67.6	65.8	68.0	66.3	68.5	66.3
15°	66.6	68.5	67.4	69.0	67.4	69.5	67.6	70.1	68.0	70.3	68.0
17.5°	68.5	70.3	69.0	71.0	69.1	71.4	69.3	72.0	70.1	72.4	70.1
20°	71.0	72.7	71.1	73.3	71.3	73.5	71.7	73.9	72.2	74.4	72.2
22.5°	73.9	75.3	74.2	75.5	73.8	75.5	73.8	75.5	74.2	76.1	74.2
25°	77.2	78.2	77.0	78.2	76.5	78.1	76.4	77.8	76.5	78.2	77.0
27.5°	81.5	82.0	80.6	81.7	79.7	81.2	79.3	80.8	79.5	80.9	80.1
30°	86.2	86.8	85.2	86.1	83.9	84.8	82.7	84.0	82.9	84.0	83.5
32.5°	91.4	92.3	90.5	91.0	89.1	89.3	87.7	88.2	87.3	87.7	87.6
35°	97.6	98.5	96.6	97.2	95.1	95.1	93.7	93.5	93.2	92.7	92.7
37.5°	105.1	105.6	104.0	104.0	101.7	101.7	99.9	99.9	99.2	98.5	98.1
40°	113.5	113.7	111.3	111.2	108.8	108.8	106.8	106.3	105.0	104.0	103.6
42.5°	122.5	122.3	118.8	119.1	115.7	115.9	113.4	112.7	111.5	110.4	109.3
45°	131.5	130.8	127.4	127.2	123.2	123.3	120.2	119.9	118.0	117.0	115.7
47.5°	140.9	140.5	136.6	135.7	131.5	131.3	127.4	127.4	125.5	124.4	123.2
50°	150.5	150.3	146.0	145.3	141.0	140.2	135.6	135.6	133.4	132.9	131.2
52.5°	161.0	160.3	155.6	155.4	151.2	150.6	145.5	145.2	141.9	141.8	139.8
55°	171.4	170.0	167.1	165.6	161.3	161.2	156.7	155.8	151.5	151.5	149.0
57.5°	180.9	179.8	177.1	175.9	171.9	171.4	166.5	166.5	162.9	162.6	159.9
60°	190.7	191.0	188.4	187.7	184.0	183.7	178.9	178.9	175.2	175.0	171.9
62.5°	199.1	202.7	201.6	202.0	198.6	198.2	193.2	192.9	188.6	188.1	185.6
65°	190.8	203.6	211.8	217.2	216.9	216.7	212.0	211.2	205.9	204.5	200.3
67.5°	160.3	176.9	191.8	208.1	220.2	229.2	231.9	230.9	226.4	222.2	217.0
70°	107.3	126.4	145.3	165.7	186.3	206.3	226.9	235.7	245.2	241.9	241.0
71°	81.7	101.3	120.2	141.8	163.5	185.8	211.0	221.6	240.7	240.6	245.5
72.5°	46.0	63.5	83.7	102.5	123.0	146.0	171.9	183.5	211.0	216.5	230.7
75°	14.7	20.2	26.7	42.2	55.0	75.9	95.1	106.8	125.0	134.0	153.9
77.5°	9.8	10.9	11.3	13.0	14.7	20.9	28.4	34.8	38.2	40.1	42.0
80°	7.1	7.6	8.1	8.9	9.2	10.2	10.2	11.3	11.0	11.8	11.3
82.5°	4.5	5.1	5.3	5.6	5.7	6.6	6.8	7.6	7.6	8.1	7.8
85°	2.2	2.5	2.5	3.0	3.0	3.4	3.4	4.0	4.0	4.5	4.3
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271551

CATALOG NUMBER: ISS-AF-XXX-LED-E1-RW-7027-XXB

CANDELA DISTRIBUTION (continued):

	80°	82.5°	85°	87.5°	90°
0°	62.6	62.6	62.6	62.6	62.6
2.5°	62.8	62.6	62.8	62.4	62.8
5°	63.7	62.9	63.9	62.9	63.9
7.5°	65.1	64.2	65.3	63.9	65.1
10°	66.5	65.1	66.6	65.1	66.5
12.5°	68.6	66.6	69.0	66.6	69.0
15°	70.8	68.5	71.3	68.8	71.1
17.5°	72.8	70.6	73.3	70.8	73.1
20°	74.6	72.7	75.0	72.4	75.0
22.5°	76.4	75.2	77.0	75.2	77.0
25°	78.8	77.8	79.1	77.8	79.1
27.5°	81.5	81.2	81.8	80.9	82.0
30°	84.6	84.8	85.0	84.8	85.2
32.5°	88.4	89.3	88.9	88.9	88.9
35°	93.7	95.3	94.2	94.6	94.4
37.5°	98.6	101.0	99.5	100.1	99.7
40°	104.0	105.7	105.3	105.3	105.0
42.5°	110.0	112.1	111.5	111.7	111.3
45°	116.6	118.5	117.7	117.5	117.7
47.5°	124.1	126.1	125.1	125.0	125.1
50°	131.9	134.3	133.6	133.2	133.6
52.5°	140.5	143.4	143.0	142.7	143.2
55°	150.5	153.3	152.8	153.3	153.4
57.5°	160.4	163.5	162.9	163.7	164.1
60°	173.0	174.8	175.0	175.2	175.3
62.5°	185.8	186.5	187.0	187.6	187.7
65°	200.5	200.7	201.0	200.5	201.0
67.5°	214.7	213.3	213.2	213.8	214.2
70°	236.7	236.7	234.9	237.4	235.3
71°	239.6	243.0	239.1	244.7	238.7
72.5°	225.5	231.9	227.2	232.3	226.4
75°	156.8	171.6	171.4	178.7	172.8
77.5°	43.5	40.7	43.5	37.5	35.8
80°	11.8	10.7	11.7	9.8	11.0
82.5°	7.8	6.7	6.6	5.3	5.6
85°	4.5	3.4	3.4	2.8	3.0
87.5°	0.7	0.2	0.7	0.4	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)