

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: P271688

Luminaire Tested: **IST-AF-XXX-LED-E1-T3-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-XXX-LED-E1-T3-7027-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 578.6 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B0 - U1 - G0

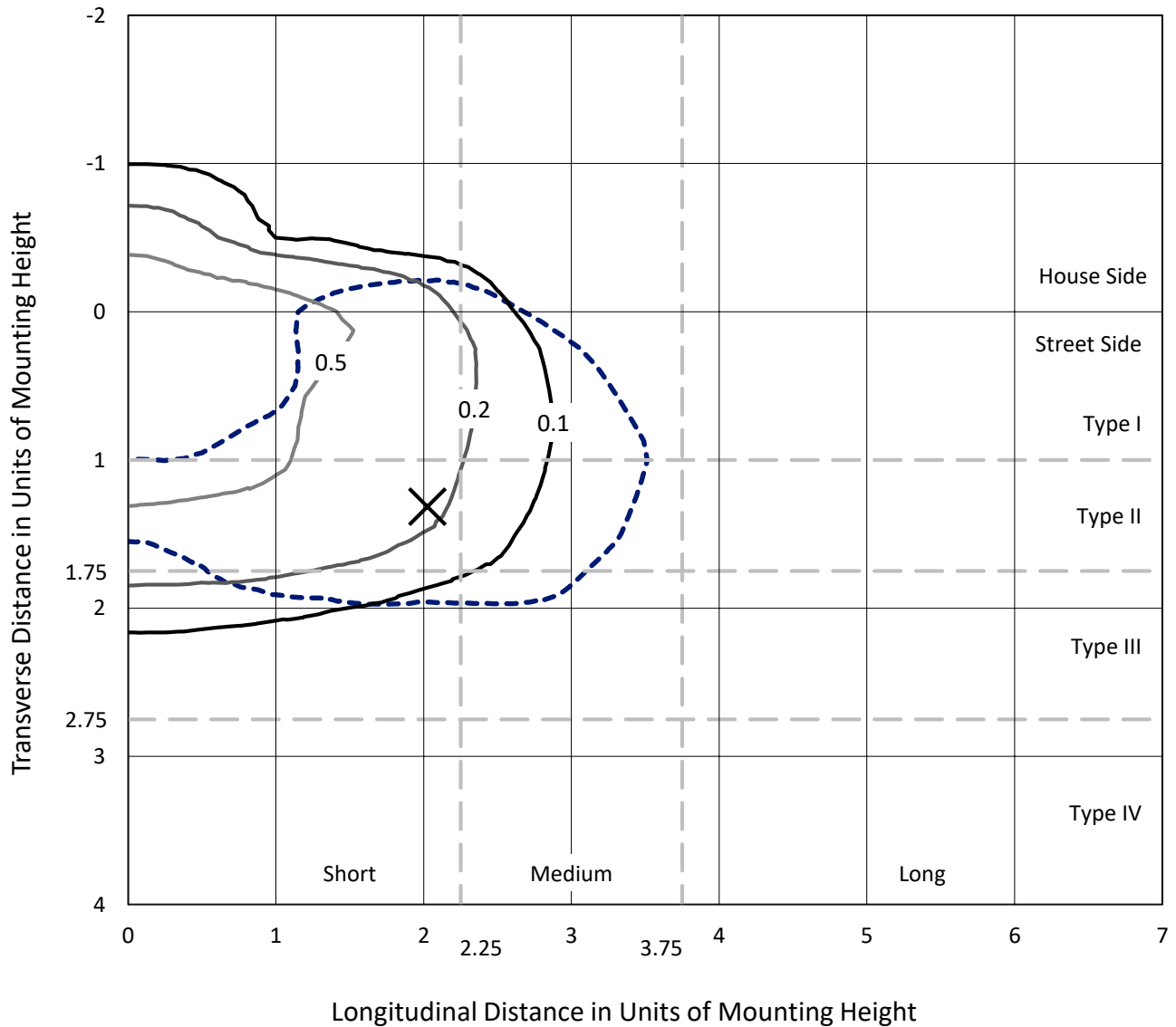
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

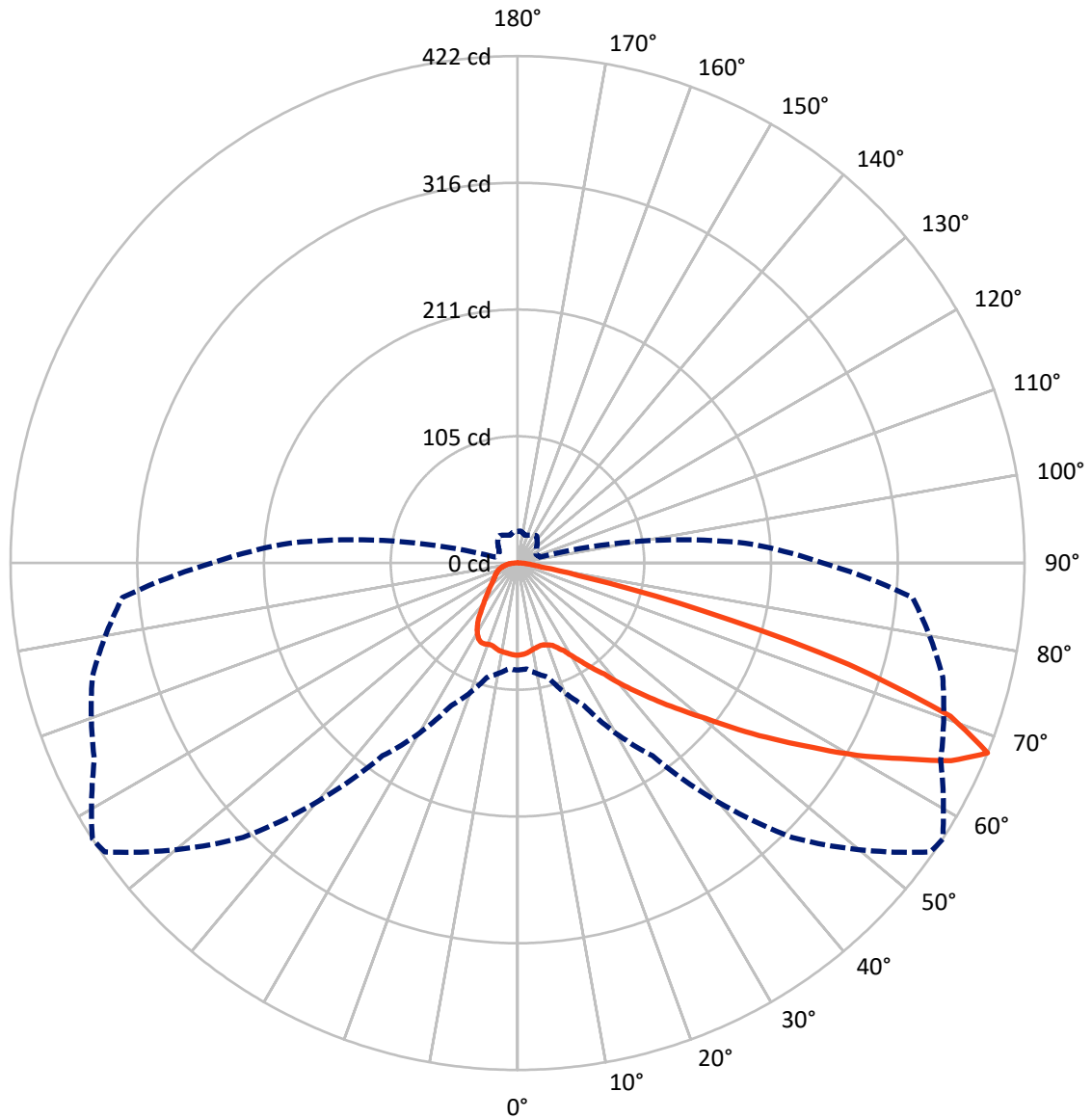
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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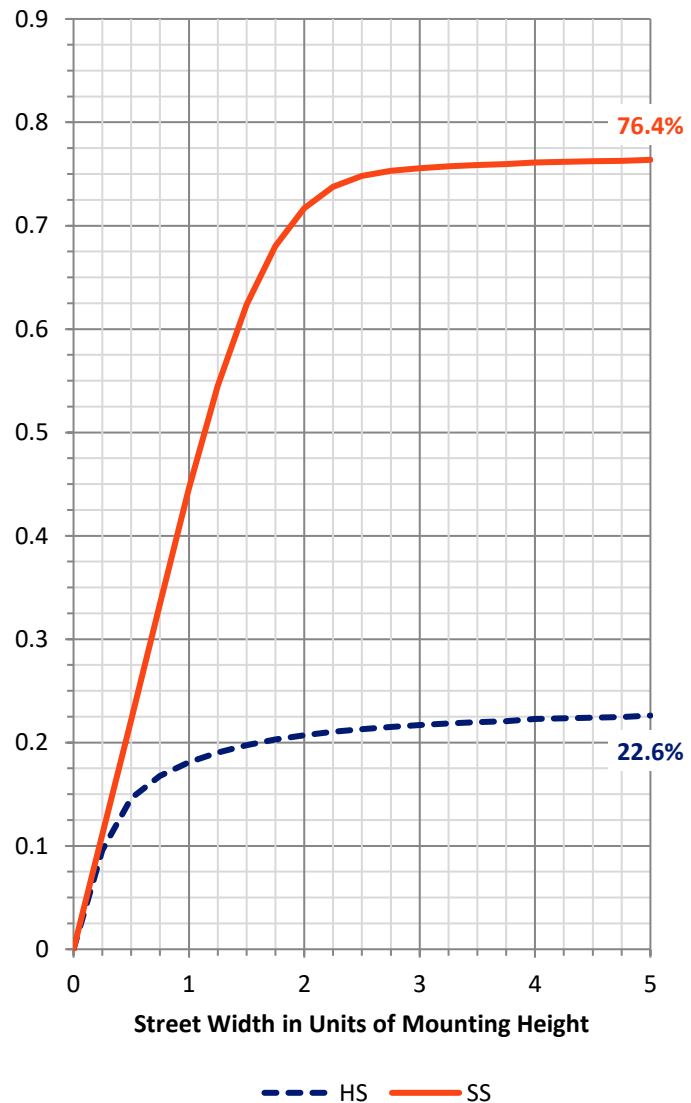
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	134.6	0.2	134.8
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	443.7	0.0	443.8
	% Fixture	76.7	0.0	76.7
Total	Lumens	578.4	0.2	578.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	1.2
10°-20°	20.6	3.6
20°-30°	35.5	6.1
30°-40°	57.7	10.0
40°-50°	93.0	16.1
50°-60°	138.7	24.0
60°-70°	156.2	27.0
70°-80°	60.2	10.4
80°-90°	9.3	1.6
90°-100°	0.2	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°	578.4	100.0
0°-180°	578.6	100.0



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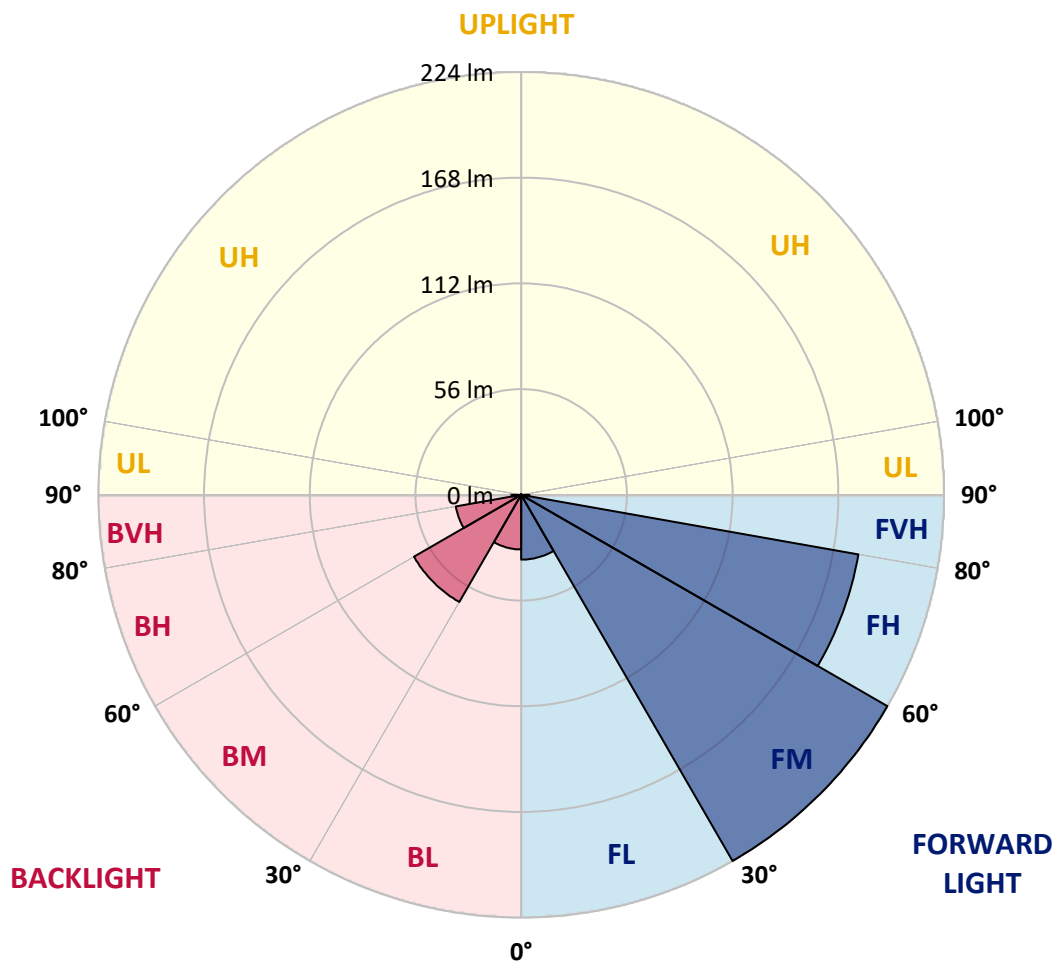
CATALOG NUMBER: IST-AF-XXX-LED-E1-T3-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	34.3	5.9			
FM	(30°-60°)	223.8	38.7			
FH	(60°-80°)	181.3	31.3			G0/660
FVH	(80°-90°)	4.3	0.7			G0/10
BL	(0°-30°)	28.9	5.0	B0/110		
BM	(30°-60°)	65.5	11.3	B0/220		
BH	(60°-80°)	35.1	6.1	B0/110		G0/110
BVH	(80°-90°)	5.0	0.9			G0/10
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	0.2	0.0		U1/10	

BUG Rating: B0-U1-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2.5°	76.1	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.3
5°	74.8	74.9	75.0	75.2	75.4	75.5	75.5	75.5	75.6	75.5	75.4
7.5°	73.0	73.1	73.4	73.4	73.6	73.9	74.1	74.2	74.5	74.5	74.4
10°	72.4	72.4	72.4	72.1	72.3	72.4	72.7	72.7	73.3	73.6	73.8
12.5°	73.1	73.0	73.0	72.3	71.8	71.4	71.8	71.9	72.5	73.1	73.4
15°	74.6	74.6	74.4	73.4	72.2	71.3	71.2	71.2	71.9	72.5	73.1
17.5°	78.2	78.4	77.3	75.6	73.8	72.2	71.7	71.5	72.0	72.5	73.1
20°	84.8	84.7	82.9	80.1	76.7	74.2	72.9	72.7	72.5	72.9	73.6
22.5°	92.7	92.4	90.3	86.8	82.1	77.5	74.8	74.4	73.8	74.0	74.9
25°	101.3	101.4	98.8	94.1	88.3	82.8	78.6	78.2	76.9	76.6	77.6
27.5°	109.9	110.9	107.4	102.9	96.1	89.5	83.5	82.8	81.7	81.2	82.3
30°	122.3	121.9	117.6	111.7	104.9	96.6	90.8	89.8	87.3	87.9	89.0
32.5°	132.9	133.8	129.9	123.0	113.9	105.2	98.5	97.9	95.5	96.2	97.7
35°	145.9	148.0	142.8	134.4	125.7	116.6	108.5	107.2	105.2	106.6	107.8
37.5°	160.5	161.7	157.7	146.7	137.8	128.5	119.3	117.2	115.1	117.8	119.9
40°	174.6	176.3	171.1	162.0	151.6	142.7	132.7	132.2	127.4	130.3	135.8
42.5°	195.5	197.6	189.5	178.7	169.4	158.6	149.0	146.7	141.4	145.7	154.9
45°	210.0	210.0	204.4	195.5	189.8	179.3	166.5	163.7	158.0	163.7	176.0
47.5°	215.3	216.6	214.7	213.5	211.6	203.9	184.9	182.4	177.1	185.5	196.9
50°	223.2	222.8	222.8	229.6	235.3	233.6	206.6	203.1	197.4	207.6	223.8
52.5°	225.1	222.2	226.8	239.7	258.0	259.3	231.9	229.9	223.2	233.0	253.1
55°	219.5	218.7	226.2	244.9	273.7	283.3	261.0	258.4	250.8	259.3	284.7
57.5°	207.0	208.9	220.9	243.8	284.7	304.4	293.2	289.3	278.5	283.5	316.0
60°	193.9	194.8	210.7	239.8	287.5	319.1	326.9	324.6	306.1	309.2	339.2
62.5°	179.2	177.1	193.5	236.7	284.3	339.3	359.6	357.9	336.0	335.0	355.7
65°	138.5	141.6	155.6	195.7	261.9	355.0	398.6	396.3	369.2	356.4	353.9
67.5°	89.0	88.4	98.3	130.8	195.7	322.7	418.9	421.5	388.2	366.0	329.7
70°	31.9	32.9	36.5	59.4	107.3	215.1	369.3	381.8	374.2	348.0	268.3
72.5°	19.4	19.4	22.1	26.7	43.5	102.0	263.2	288.0	305.4	286.8	198.2
75°	15.2	15.2	16.1	18.4	23.4	33.5	140.0	159.0	195.9	198.1	112.7
77.5°	12.0	11.9	12.8	14.0	17.4	17.7	44.6	58.2	89.9	84.6	40.3
80°	9.7	9.6	10.3	10.6	12.8	12.3	18.0	20.8	31.5	27.7	17.4
82.5°	8.8	8.8	9.4	8.2	8.9	8.6	11.2	11.9	15.8	16.3	10.5
85°	5.7	5.9	8.9	7.8	5.7	5.3	7.2	7.5	9.9	10.8	5.1
87.5°	2.7	3.0	6.7	6.6	3.9	2.9	4.0	4.3	5.4	6.6	3.1
90°	0.4	0.4	0.9	0.9	0.4	0.4	0.7	0.6	0.6	0.9	0.9
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	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: IST-AF-XXX-LED-E1-T3-7027-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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: IST-AF-XXX-LED-E1-T3-7027-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
2.5°	76.5	76.4	76.4	76.5	76.5	76.9	77.0	77.0	77.0	76.9	77.1
5°	75.5	75.4	75.4	75.6	76.0	76.3	76.7	77.2	77.3	77.4	77.4
7.5°	74.6	74.4	74.5	74.9	75.4	75.5	76.1	76.4	77.1	77.1	77.2
10°	73.9	74.1	74.2	74.6	74.9	74.9	74.8	74.6	74.5	74.9	74.8
12.5°	73.5	73.8	73.6	74.2	74.3	73.6	72.7	71.3	71.1	71.3	71.4
15°	73.3	73.3	73.6	73.6	72.8	71.3	70.2	70.2	70.3	70.9	70.9
17.5°	73.3	73.4	73.6	73.0	71.4	70.2	70.1	69.8	68.9	68.6	68.5
20°	73.9	73.8	73.9	72.9	71.4	70.6	68.6	66.7	65.0	64.3	63.9
22.5°	75.4	75.1	75.0	73.9	72.2	69.1	65.4	62.5	59.5	58.5	58.2
25°	77.8	77.7	77.2	76.4	71.8	65.7	60.9	56.4	53.1	51.3	51.5
27.5°	82.3	82.3	81.9	78.6	69.1	61.4	55.0	50.3	47.0	45.4	45.1
30°	89.0	89.1	89.3	79.2	65.0	55.2	48.4	45.4	43.3	42.1	42.0
32.5°	97.3	98.3	97.2	78.5	59.4	47.5	43.3	42.2	41.2	40.4	40.3
35°	108.2	110.9	103.9	75.9	53.1	42.3	40.2	39.4	38.6	38.1	38.2
37.5°	123.0	125.4	108.2	71.3	45.1	39.3	38.4	37.3	36.1	34.9	34.7
40°	140.5	139.7	109.8	62.7	40.1	38.0	36.7	35.2	33.1	31.4	31.0
42.5°	157.9	152.8	108.5	52.2	36.8	36.7	34.9	33.0	31.0	29.5	29.5
45°	177.3	164.4	104.7	42.3	34.1	35.3	33.1	31.2	29.4	28.2	28.0
47.5°	195.8	175.2	98.3	35.2	31.6	33.6	31.8	30.0	28.3	27.2	26.9
50°	217.5	187.6	93.4	30.5	29.0	31.8	31.1	29.5	27.8	26.6	26.4
52.5°	239.3	199.5	89.7	27.2	26.8	30.5	30.7	29.7	27.9	25.7	25.5
55°	262.1	214.5	82.4	24.6	24.8	29.6	31.2	30.5	29.1	25.5	25.3
57.5°	281.3	228.3	69.5	22.9	23.2	28.7	31.4	29.9	28.5	25.6	25.4
60°	296.4	237.8	50.9	21.5	21.8	27.8	30.6	28.2	26.3	25.6	25.2
62.5°	301.0	238.1	33.9	19.8	20.8	26.5	29.3	27.2	25.1	25.4	25.2
65°	289.4	225.6	24.3	18.1	19.8	24.8	28.7	26.3	24.4	25.8	25.6
67.5°	253.8	190.0	19.4	16.9	18.5	23.1	27.6	25.5	24.0	26.7	26.2
70°	197.8	136.4	16.5	15.7	17.2	21.4	26.1	24.5	23.3	26.1	25.3
72.5°	130.3	80.3	14.6	14.6	15.6	19.9	24.3	23.7	22.2	23.5	22.5
75°	68.0	37.2	12.7	13.1	13.8	18.7	22.9	22.2	20.5	21.0	20.8
77.5°	26.7	17.4	11.0	11.6	12.4	16.9	20.9	20.3	18.9	18.4	18.3
80°	14.6	11.8	9.2	9.9	10.4	15.2	19.0	18.1	16.7	16.3	16.2
82.5°	9.3	7.6	7.5	8.1	8.7	13.5	17.0	15.8	14.6	17.2	13.9
85°	4.3	4.5	5.4	6.0	6.7	11.5	14.8	13.6	12.4	11.9	10.6
87.5°	2.4	3.1	3.5	4.1	4.7	8.1	11.8	10.6	9.3	7.8	8.2
90°	0.6	0.6	1.0	0.9	1.0	1.2	5.7	5.2	4.6	2.2	1.4
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271688

CATALOG NUMBER: IST-AF-XXX-LED-E1-T3-7027-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)