

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: P226462

Luminaire Tested: **IST-AF-XXX-LED-E1-T3-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226462
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-T3-7030-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 589.5 lumens
Efficiency: N/A
Efficacy: 45.3 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

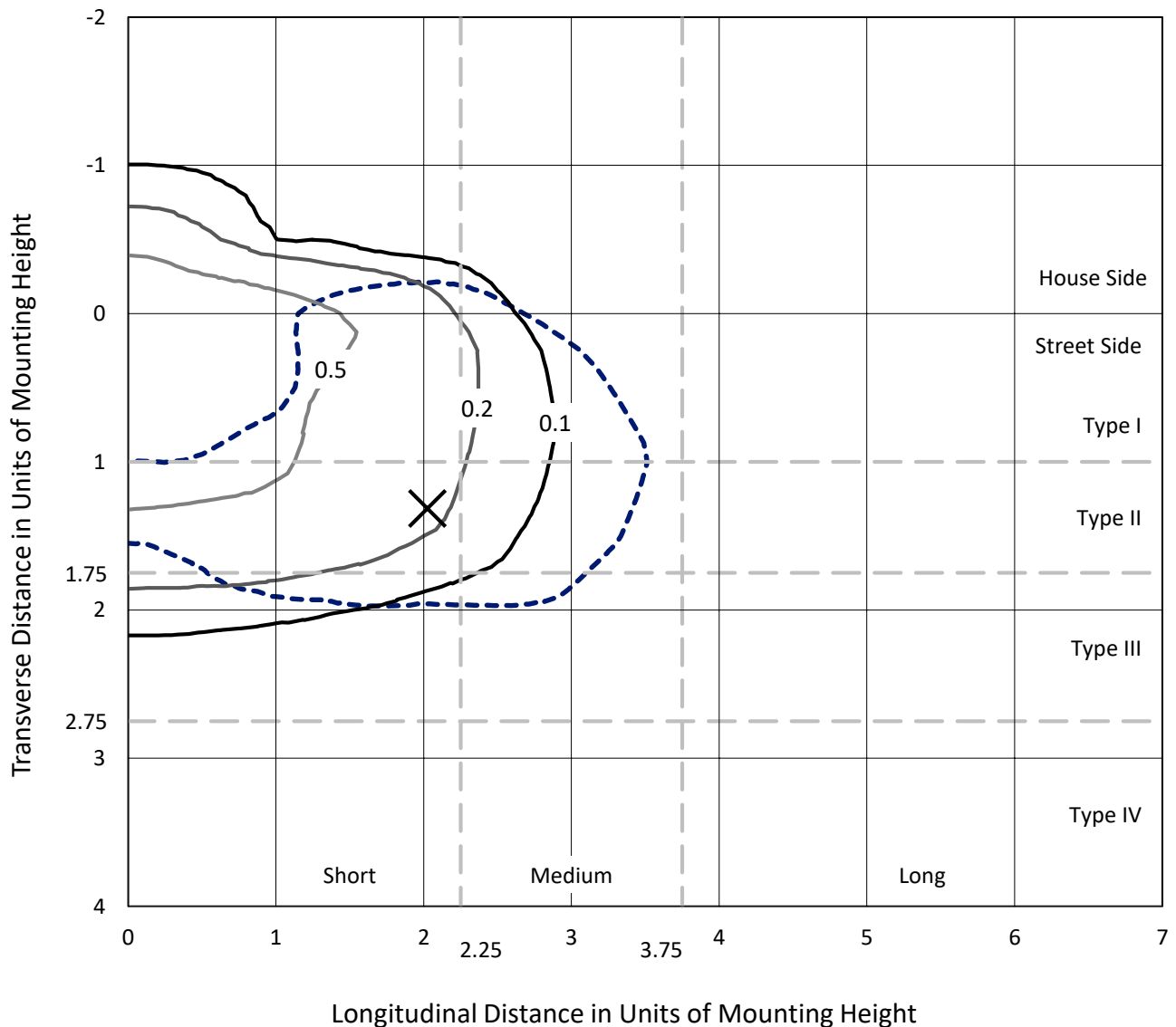
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

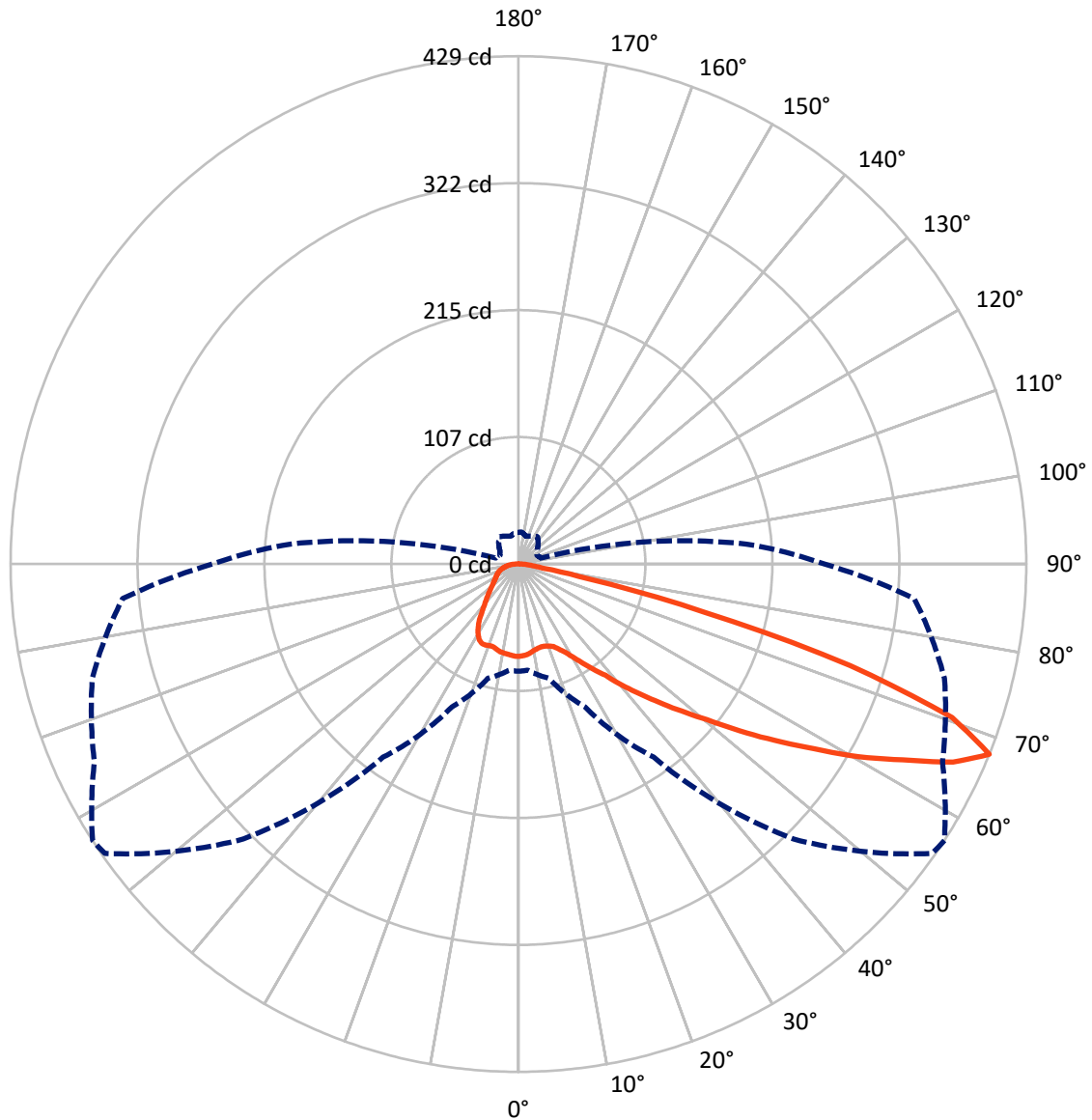
× Max cd
 - - - 1/2 Max cd



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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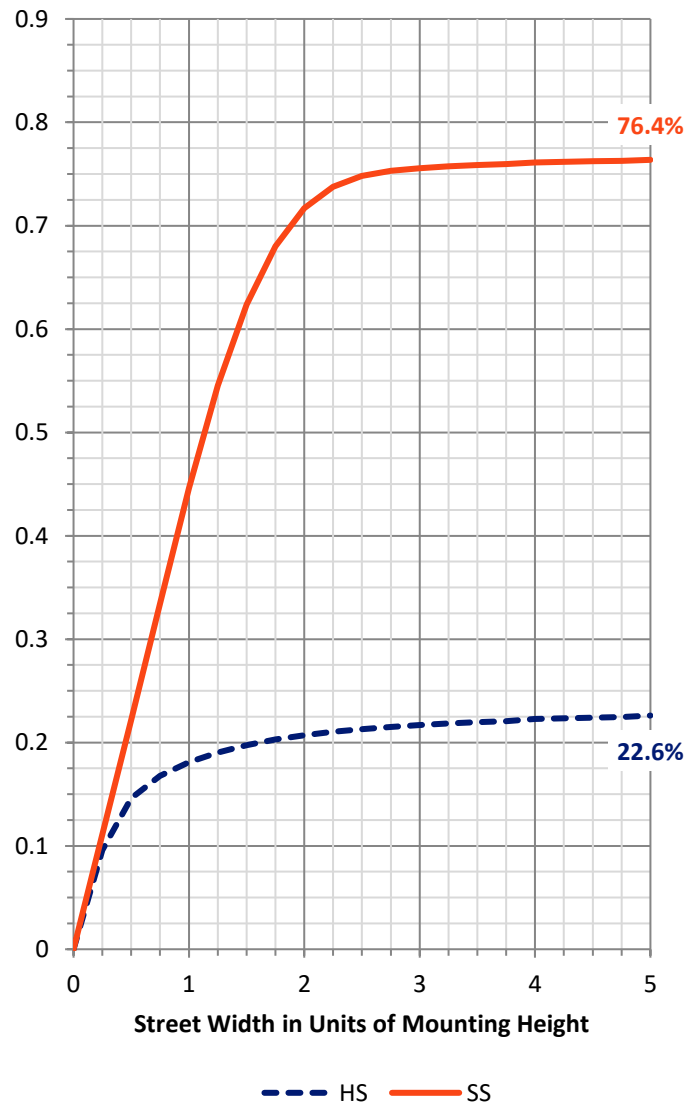
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.2	0.2	137.4
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	452.1	0.0	452.2
	% Fixture	76.7	0.0	76.7
Total	Lumens	589.3	0.2	589.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	1.2
10°-20°	21.0	3.6
20°-30°	36.1	6.1
30°-40°	58.8	10.0
40°-50°	94.8	16.1
50°-60°	141.3	24.0
60°-70°	159.1	27.0
70°-80°	61.4	10.4
80°-90°	9.5	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°	589.3	100.0
0°-180°	589.5	100.0



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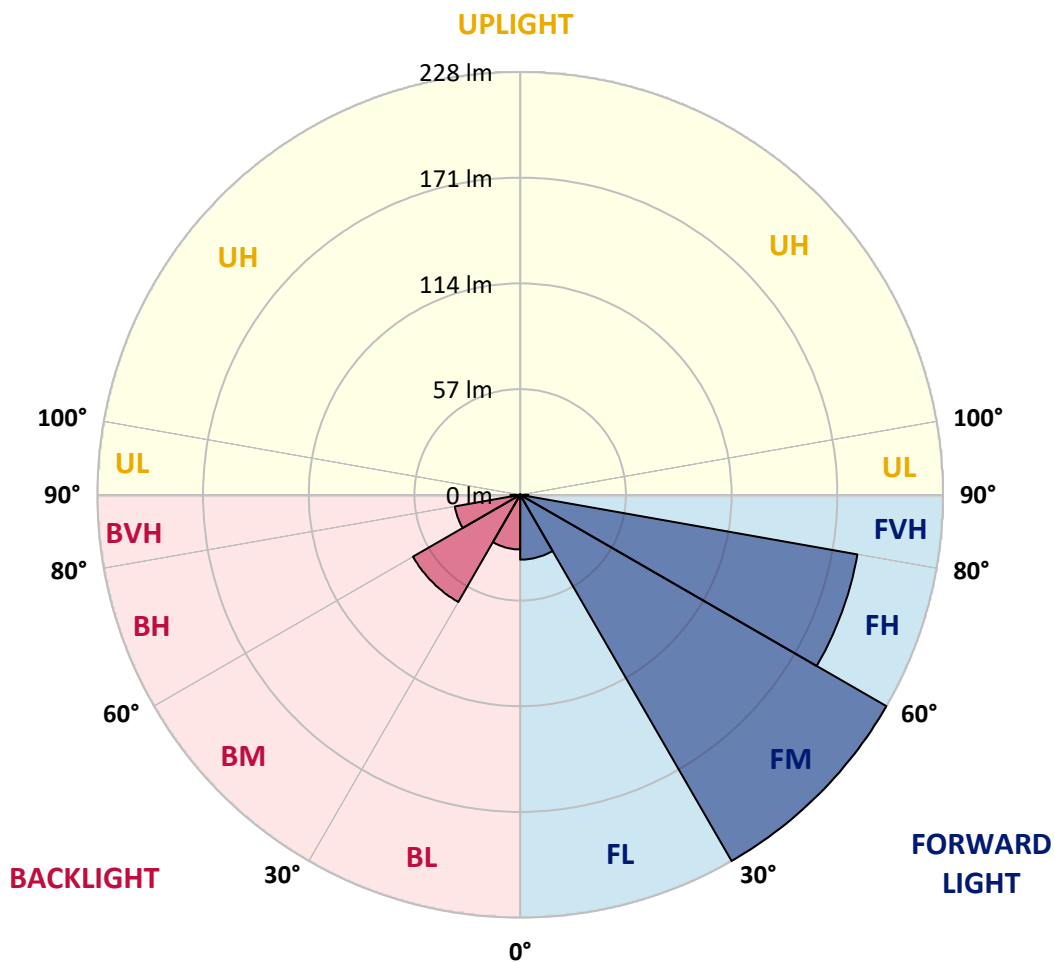
CATALOG NUMBER: IST-AF-XXX-LED-E1-T3-7030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	35.0	5.9			
FM	(30°-60°)	228.1	38.7			
FH	(60°-80°)	184.7	31.3			G0/660
FVH	(80°-90°)	4.4	0.7			G0/10
BL	(0°-30°)	29.5	5.0	B0/110		
BM	(30°-60°)	66.8	11.3	B0/220		
BH	(60°-80°)	35.8	6.1	B0/110		G0/110
BVH	(80°-90°)	5.1	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°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2.5°	77.5	77.7	77.9	77.8	77.8	77.8	77.8	77.6	77.9	77.9	77.7
5°	76.2	76.3	76.4	76.6	76.8	76.9	77.0	77.0	77.1	77.0	76.8
7.5°	74.4	74.5	74.8	74.8	75.0	75.3	75.5	75.6	75.9	75.9	75.8
10°	73.8	73.8	73.8	73.5	73.7	73.8	74.0	74.0	74.7	75.0	75.2
12.5°	74.5	74.4	74.4	73.7	73.1	72.8	73.1	73.2	73.9	74.5	74.8
15°	76.0	76.0	75.8	74.8	73.6	72.7	72.6	72.6	73.2	73.9	74.5
17.5°	79.6	79.9	78.7	77.1	75.1	73.6	73.0	72.9	73.3	73.9	74.5
20°	86.4	86.3	84.5	81.6	78.2	75.6	74.2	74.0	73.9	74.3	75.0
22.5°	94.5	94.2	92.0	88.4	83.7	79.0	76.2	75.8	75.1	75.4	76.3
25°	103.2	103.3	100.7	95.9	90.0	84.4	80.1	79.7	78.3	78.1	79.1
27.5°	111.9	113.0	109.5	104.9	97.9	91.2	85.0	84.4	83.2	82.7	83.8
30°	124.7	124.2	119.8	113.9	106.9	98.4	92.5	91.5	89.0	89.6	90.7
32.5°	135.4	136.3	132.3	125.3	116.1	107.2	100.3	99.8	97.3	98.0	99.6
35°	148.6	150.8	145.5	136.9	128.0	118.8	110.6	109.2	107.2	108.6	109.8
37.5°	163.6	164.7	160.6	149.5	140.4	130.9	121.5	119.4	117.2	120.0	122.2
40°	177.9	179.7	174.4	165.0	154.5	145.4	135.2	134.7	129.8	132.8	138.4
42.5°	199.2	201.4	193.0	182.0	172.6	161.5	151.8	149.5	144.1	148.5	157.8
45°	214.0	214.0	208.2	199.2	193.4	182.7	169.6	166.8	161.0	166.8	179.3
47.5°	219.4	220.7	218.7	217.6	215.6	207.8	188.4	185.9	180.4	189.0	200.6
50°	227.4	227.0	227.0	233.9	239.7	238.1	210.5	206.9	201.2	211.5	228.0
52.5°	229.4	226.3	231.1	244.2	262.9	264.2	236.2	234.2	227.4	237.4	257.8
55°	223.7	222.9	230.5	249.5	278.9	288.7	266.0	263.2	255.5	264.2	290.0
57.5°	210.9	212.8	225.1	248.4	290.0	310.2	298.7	294.7	283.7	288.9	322.0
60°	197.5	198.4	214.6	244.4	293.0	325.1	333.1	330.8	311.9	315.0	345.6
62.5°	182.6	180.4	197.1	241.2	289.7	345.7	366.4	364.6	342.3	341.3	362.4
65°	141.1	144.2	158.5	199.4	266.9	361.7	406.1	403.8	376.2	363.1	360.6
67.5°	90.7	90.1	100.1	133.3	199.4	328.8	426.8	429.4	395.6	372.9	335.9
70°	32.5	33.5	37.2	60.5	109.4	219.1	376.3	389.0	381.3	354.6	273.4
72.5°	19.8	19.8	22.5	27.2	44.3	103.9	268.2	293.4	311.2	292.2	201.9
75°	15.5	15.5	16.4	18.8	23.9	34.1	142.6	162.0	199.6	201.8	114.9
77.5°	12.3	12.2	13.1	14.3	17.8	18.0	45.5	59.3	91.6	86.2	41.1
80°	9.9	9.8	10.5	10.8	13.1	12.5	18.3	21.2	32.1	28.2	17.8
82.5°	9.0	9.0	9.6	8.3	9.1	8.8	11.4	12.1	16.1	16.7	10.7
85°	5.8	6.0	9.1	8.0	5.9	5.4	7.3	7.7	10.1	11.0	5.2
87.5°	2.7	3.0	6.9	6.7	3.9	2.9	4.1	4.4	5.5	6.7	3.1
90°	0.5	0.5	0.9	0.9	0.5	0.5	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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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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
2.5°	78.0	77.8	77.9	78.0	78.0	78.3	78.4	78.4	78.4	78.3	78.5
5°	77.0	76.8	76.8	77.1	77.4	77.7	78.2	78.6	78.8	78.9	78.9
7.5°	76.0	75.8	75.9	76.3	76.8	77.0	77.5	77.8	78.5	78.5	78.6
10°	75.3	75.5	75.6	76.0	76.3	76.3	76.2	76.1	75.9	76.3	76.2
12.5°	74.9	75.1	75.0	75.6	75.7	75.0	74.0	72.7	72.5	72.7	72.8
15°	74.7	74.7	75.0	75.0	74.1	72.7	71.5	71.5	71.7	72.2	72.2
17.5°	74.7	74.8	75.0	74.4	72.8	71.6	71.4	71.1	70.2	69.9	69.7
20°	75.3	75.1	75.3	74.2	72.8	71.9	69.9	68.0	66.3	65.5	65.1
22.5°	76.8	76.5	76.4	75.3	73.6	70.4	66.6	63.7	60.6	59.6	59.3
25°	79.3	79.2	78.6	77.9	73.1	66.9	62.1	57.5	54.1	52.3	52.4
27.5°	83.8	83.8	83.5	80.1	70.4	62.6	56.0	51.3	47.9	46.2	45.9
30°	90.7	90.8	91.0	80.7	66.3	56.2	49.3	46.2	44.1	42.9	42.8
32.5°	99.1	100.1	99.0	80.0	60.5	48.4	44.1	43.0	42.0	41.2	41.1
35°	110.3	112.9	105.9	77.3	54.1	43.1	41.0	40.2	39.4	38.8	38.9
37.5°	125.3	127.8	110.3	72.7	45.9	40.1	39.2	38.0	36.8	35.5	35.3
40°	143.1	142.3	111.8	63.9	40.8	38.7	37.4	35.9	33.8	31.9	31.6
42.5°	160.9	155.7	110.6	53.2	37.5	37.4	35.6	33.6	31.6	30.0	30.0
45°	180.7	167.5	106.6	43.1	34.8	36.0	33.8	31.8	29.9	28.7	28.6
47.5°	199.5	178.5	100.1	35.9	32.2	34.2	32.4	30.6	28.8	27.7	27.5
50°	221.6	191.1	95.2	31.1	29.6	32.4	31.7	30.0	28.3	27.1	26.9
52.5°	243.8	203.3	91.4	27.7	27.3	31.1	31.3	30.3	28.5	26.2	26.0
55°	267.1	218.6	83.9	25.1	25.3	30.1	31.8	31.0	29.7	26.0	25.8
57.5°	286.7	232.7	70.8	23.3	23.6	29.3	31.9	30.5	29.0	26.1	25.9
60°	302.0	242.3	51.9	21.9	22.2	28.4	31.2	28.7	26.8	26.1	25.7
62.5°	306.7	242.6	34.5	20.1	21.1	27.0	29.8	27.7	25.5	25.9	25.7
65°	294.9	229.8	24.7	18.5	20.1	25.3	29.2	26.8	24.9	26.3	26.1
67.5°	258.6	193.6	19.8	17.2	18.9	23.5	28.1	26.0	24.4	27.2	26.7
70°	201.5	138.9	16.8	16.0	17.5	21.8	26.6	25.0	23.7	26.5	25.8
72.5°	132.8	81.8	14.9	14.8	15.9	20.3	24.8	24.2	22.6	24.0	23.0
75°	69.3	37.9	12.9	13.4	14.1	19.0	23.3	22.6	20.9	21.4	21.1
77.5°	27.2	17.8	11.2	11.8	12.6	17.2	21.3	20.7	19.2	18.8	18.7
80°	14.9	12.0	9.3	10.1	10.6	15.5	19.3	18.5	17.0	16.7	16.5
82.5°	9.5	7.8	7.7	8.2	8.9	13.7	17.3	16.1	14.9	17.5	14.2
85°	4.4	4.6	5.5	6.1	6.9	11.7	15.1	13.8	12.6	12.2	10.8
87.5°	2.5	3.1	3.6	4.2	4.8	8.2	12.0	10.8	9.4	8.0	8.3
90°	0.6	0.6	1.0	0.9	1.0	1.2	5.9	5.3	4.7	2.2	1.5
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-T3-7030-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)