

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: P227112

Luminaire Tested: **IST-AF-XXX-LED-E1-SL4-7030-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)  
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-SL4-7030-XXB  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY  
BACKPACK BOX  
LIGHT SQUARE WITH ACCUED OPTICS-TYPE IV W/SPILL CONTROL  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 526.1 lumens  
Efficiency: N/A  
Efficacy: 40.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U1 - G0

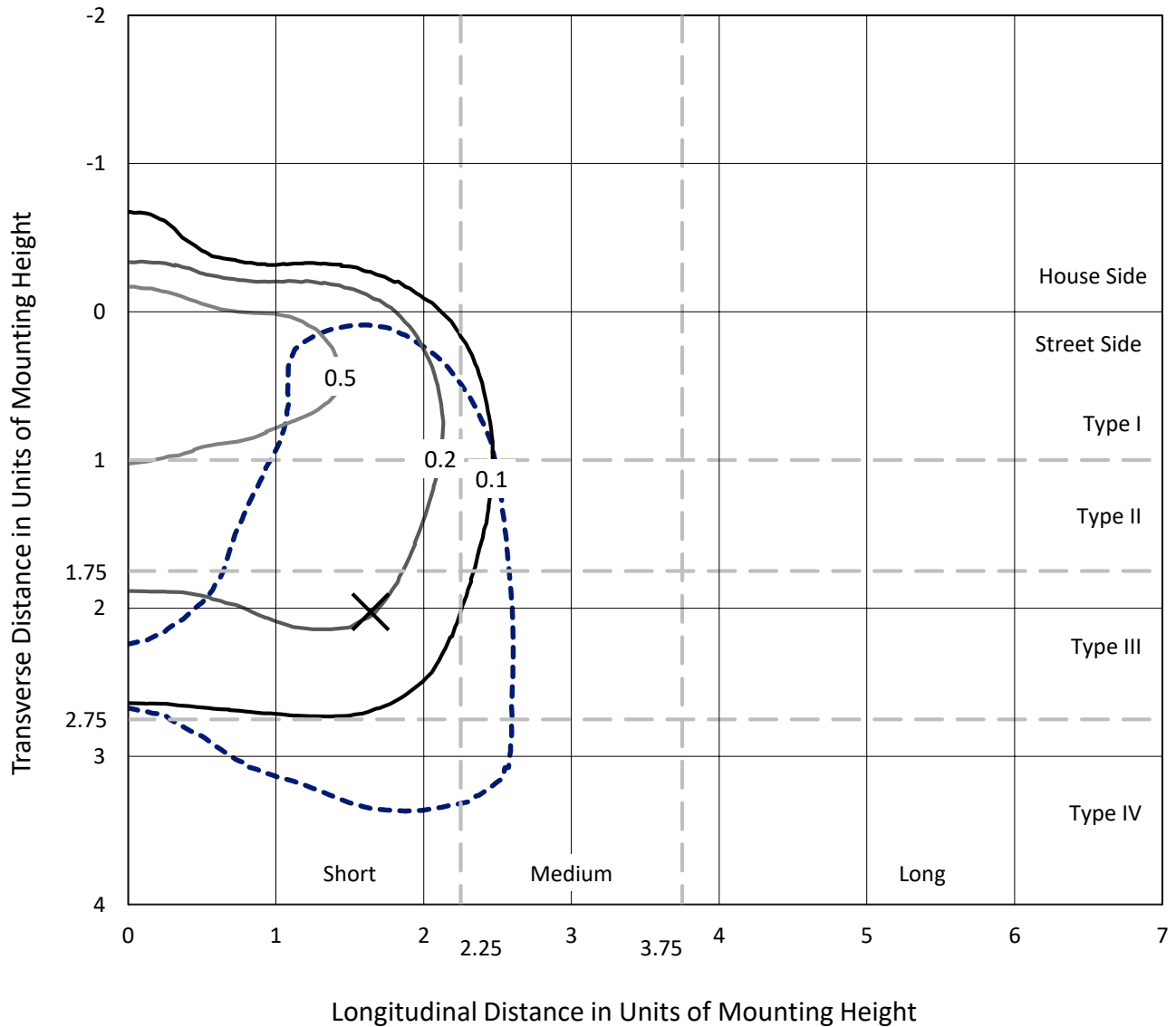
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

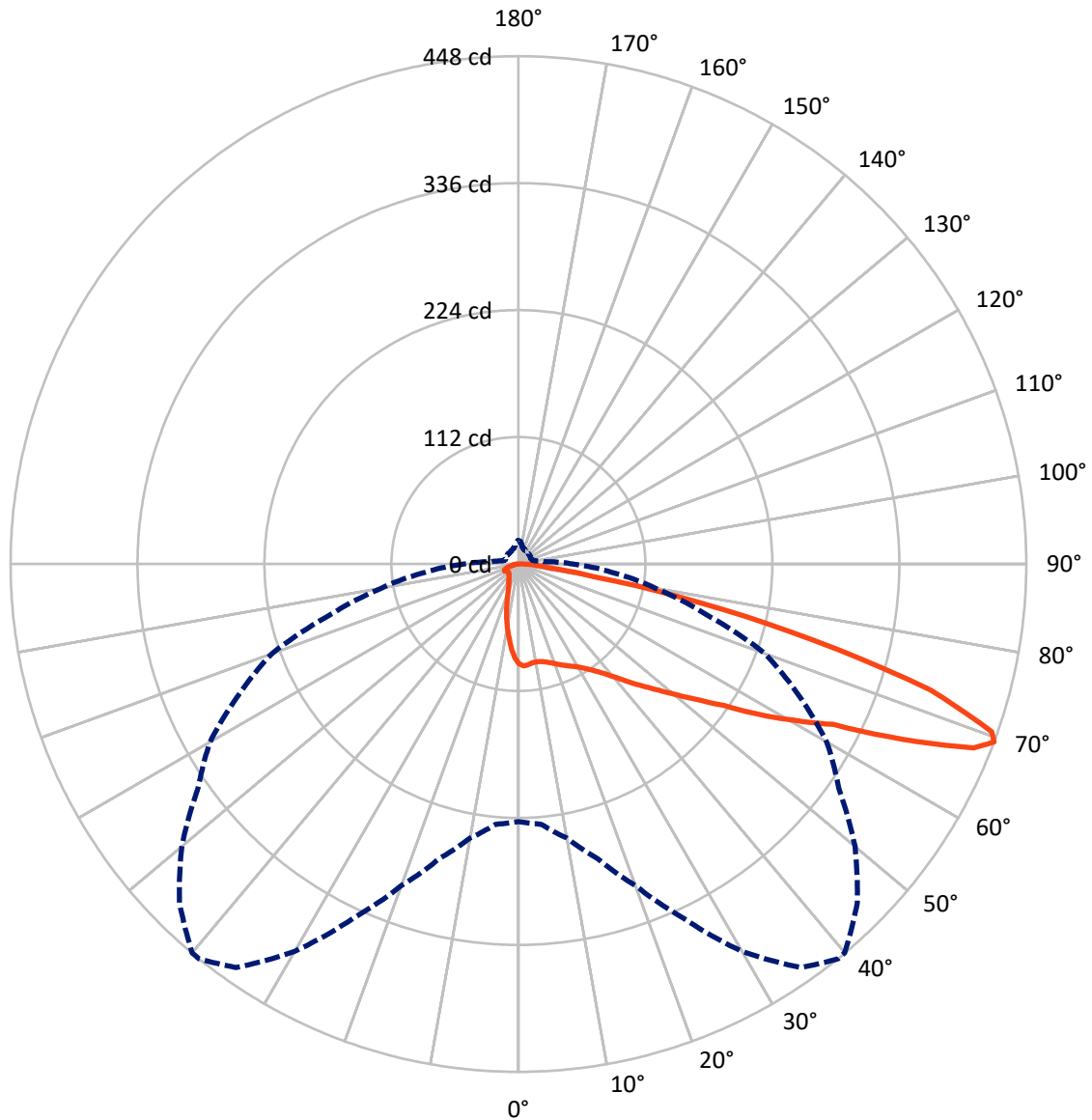
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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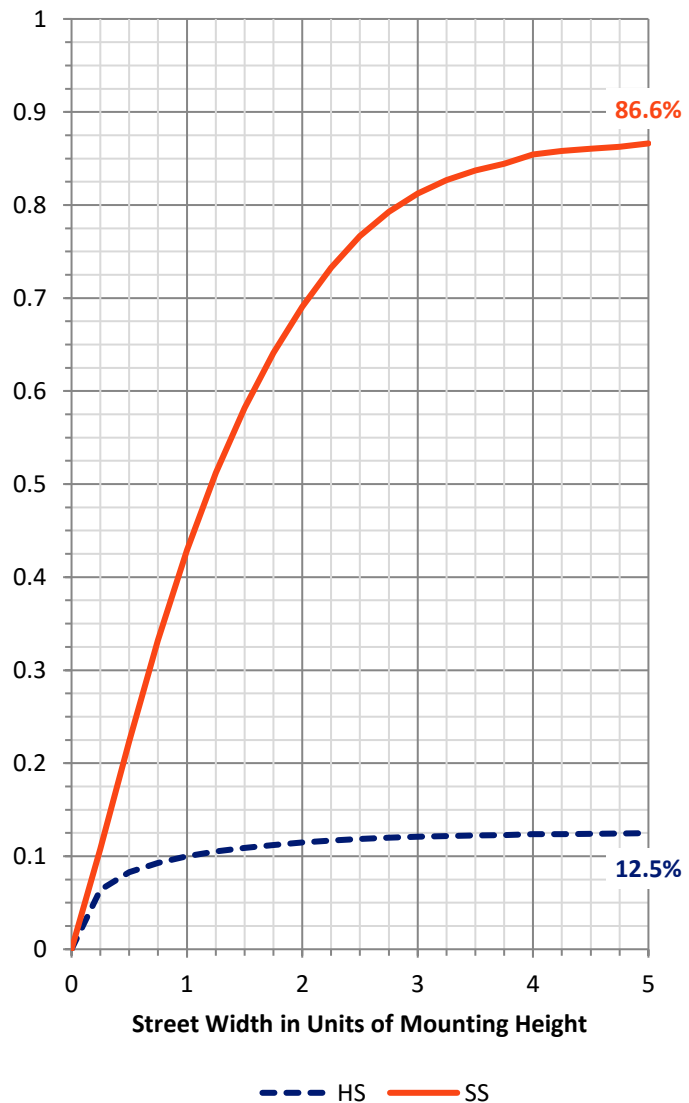
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	66.6	0.0	66.6
	% Fixture	12.7	0.0	12.7
<b>Street Side</b>	Lumens	459.4	0.1	459.5
	% Fixture	87.3	0.0	87.3
<b>Total</b>	Lumens	525.9	0.1	526.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.6	1.4
10°-20°	19.2	3.6
20°-30°	29.9	5.7
30°-40°	45.1	8.6
40°-50°	72.2	13.7
50°-60°	113.5	21.6
60°-70°	152.8	29.0
70°-80°	75.8	14.4
80°-90°	10.0	1.9
90°-100°	0.1	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°	525.9	100.0
0°-180°	526.1	100.0



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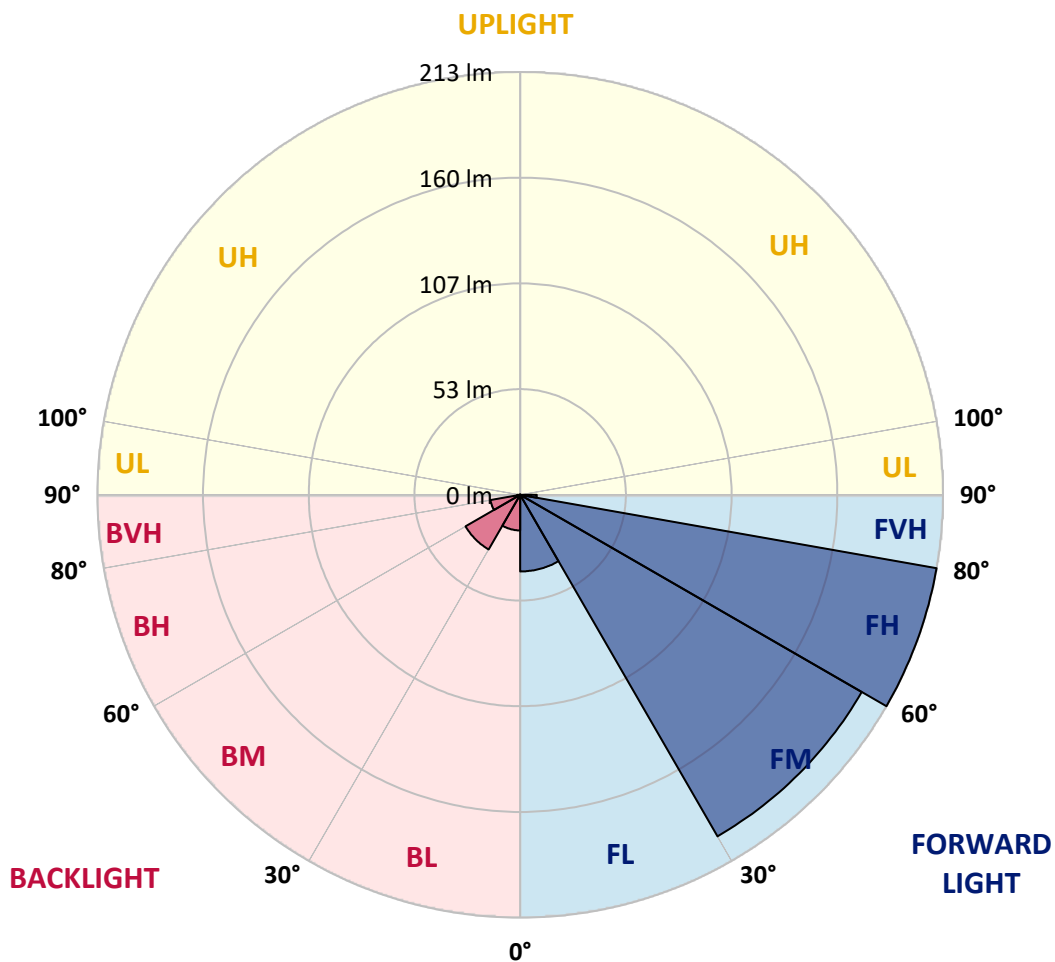
CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7030-XXB

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	38.7	7.4			
FM	(30°-60°)	199.0	37.8			
FH	(60°-80°)	213.3	40.6			G0/660
FVH	(80°-90°)	8.4	1.6			G0/10
BL	(0°-30°)	18.0	3.4	B0/110		
BM	(30°-60°)	31.8	6.0	B0/220		
BH	(60°-80°)	15.2	2.9	B0/110		G0/110
BVH	(80°-90°)	1.6	0.3			G0/10
UL	(90°-100°)	0.1	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

**BUG Rating: B0-U1-G0**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	90.2	90.3	90.3	90.4	90.1	90.1	90.2	89.8	90.0	89.9	89.5
5°	90.4	90.5	90.4	90.5	90.1	89.9	89.6	89.1	89.3	89.2	88.6
7.5°	90.0	90.1	89.9	90.0	89.5	89.1	88.6	88.3	88.0	87.9	87.2
10°	89.1	89.3	89.0	89.2	88.8	88.5	88.2	87.9	87.7	87.6	86.7
12.5°	87.7	87.9	87.9	88.3	88.3	88.4	88.4	88.1	88.2	88.1	87.4
15°	86.4	87.0	87.6	87.9	88.6	89.1	89.4	89.3	89.6	89.5	89.1
17.5°	86.4	86.9	87.9	89.1	90.3	90.9	91.4	91.4	91.5	91.4	90.7
20°	86.7	87.7	89.4	91.3	92.8	94.0	94.3	94.3	93.9	93.9	92.7
22.5°	89.6	90.2	92.0	94.1	96.2	97.4	97.5	97.2	96.6	96.4	94.9
25°	93.6	94.3	96.0	98.6	100.2	101.2	100.9	100.1	99.4	98.8	97.2
27.5°	99.8	100.3	102.0	103.8	104.8	105.1	104.1	102.9	102.1	101.9	99.8
30°	106.2	106.9	108.3	109.4	110.1	109.1	107.5	106.1	105.4	105.3	103.4
32.5°	114.1	114.2	115.1	115.3	115.4	113.7	111.5	110.2	110.0	109.6	108.2
35°	121.2	121.7	121.5	121.4	120.6	118.5	116.6	115.9	115.6	115.5	114.3
37.5°	127.6	128.3	127.9	127.1	126.2	124.5	122.5	121.7	122.5	122.0	122.3
40°	133.9	133.9	133.4	132.9	131.8	130.2	129.5	129.6	131.0	131.3	131.7
42.5°	139.3	139.2	138.7	138.3	138.1	137.8	137.5	139.1	141.7	142.2	143.0
45°	145.1	145.1	143.1	143.8	145.0	145.2	146.4	150.2	153.4	153.7	155.3
47.5°	150.9	150.2	148.3	149.0	152.4	154.2	156.2	161.5	166.0	166.9	171.4
50°	156.8	156.2	154.1	155.4	160.2	163.5	168.1	175.5	181.7	183.0	188.9
52.5°	163.1	163.0	161.4	163.3	169.2	176.0	183.2	191.5	199.1	200.7	209.4
55°	170.6	170.2	169.5	171.9	180.2	189.3	200.6	211.9	220.2	223.1	231.9
57.5°	179.0	178.9	179.0	183.9	194.0	207.7	221.6	236.8	250.5	252.6	260.8
60°	186.4	186.7	188.7	196.5	209.1	227.7	247.3	267.8	280.0	282.1	290.1
62.5°	195.4	197.3	201.7	211.5	226.3	248.9	274.2	296.0	311.6	316.0	331.2
65°	216.9	218.4	226.5	238.4	257.3	286.2	315.3	347.0	372.8	376.7	389.8
67.5°	232.6	236.5	249.2	268.6	296.0	332.9	372.9	411.2	433.0	434.8	425.6
69°	227.1	230.4	245.4	268.8	301.8	344.8	394.5	434.5	447.9	447.6	422.7
70°	218.7	221.7	238.3	261.0	297.0	343.4	394.8	434.7	442.8	439.7	411.3
72.5°	183.2	185.9	201.4	225.1	260.0	306.1	354.5	381.7	380.0	377.5	330.5
75°	114.4	114.2	127.8	141.6	168.6	215.2	251.3	273.1	269.6	267.7	212.2
77.5°	42.8	45.8	50.7	65.5	78.0	103.1	132.3	156.6	163.3	154.7	114.2
80°	22.3	23.9	27.2	32.4	37.2	42.6	51.2	65.9	68.2	63.6	46.1
82.5°	17.6	19.6	22.8	27.2	30.7	28.6	27.0	27.9	27.7	26.5	23.5
85°	13.3	15.6	20.9	25.4	30.3	25.6	20.4	17.8	15.9	16.0	17.0
87.5°	6.7	8.6	16.5	22.2	26.4	17.0	13.3	10.3	8.6	8.3	11.1
90°	2.0	2.0	3.3	4.4	6.0	3.0	2.9	2.2	1.6	1.6	2.6
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



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	89.1	89.1	89.0	88.9	88.6	88.3	88.0	87.6	87.3	86.9	86.4
5°	88.0	87.7	87.5	87.2	86.7	86.2	85.7	85.1	84.4	83.6	82.6
7.5°	86.6	86.1	85.5	85.3	84.7	84.2	83.6	82.7	81.8	80.3	79.1
10°	86.0	85.5	85.0	84.6	83.8	83.2	82.6	81.5	80.3	78.2	76.0
12.5°	86.6	86.1	85.6	85.0	84.3	83.6	82.6	81.3	79.7	77.0	74.3
15°	88.0	87.5	86.7	86.1	85.1	84.5	83.2	81.7	79.3	76.1	72.5
17.5°	89.7	88.9	88.1	87.2	86.3	85.6	84.2	82.2	79.2	75.4	70.8
20°	91.2	90.3	89.1	88.5	87.6	86.5	85.0	82.6	79.1	74.0	69.0
22.5°	93.0	91.9	90.6	89.8	89.1	88.2	86.5	83.4	79.1	73.3	66.9
25°	95.3	93.8	92.6	91.8	91.4	90.7	88.6	85.2	79.7	72.8	65.2
27.5°	98.0	96.1	95.0	94.5	94.4	93.9	91.9	87.6	81.0	72.8	63.6
30°	101.3	99.6	98.2	98.2	99.2	98.9	96.6	91.3	83.2	73.1	62.4
32.5°	105.8	104.2	103.3	104.2	105.3	105.6	103.0	96.5	86.7	74.3	61.2
35°	112.4	111.4	110.8	112.1	114.3	115.2	111.9	104.3	91.8	76.6	60.5
37.5°	121.2	120.5	119.7	121.9	126.1	127.8	123.1	113.2	99.1	80.4	60.2
40°	131.3	131.4	132.3	136.7	140.7	144.3	139.0	126.8	109.2	85.9	60.5
42.5°	143.3	144.2	147.1	153.3	161.0	163.8	158.7	143.2	121.8	92.5	61.4
45°	158.1	160.6	165.6	174.7	184.1	188.4	181.2	163.8	137.5	103.0	63.8
47.5°	173.9	179.4	187.8	198.9	209.8	212.6	203.6	182.5	153.0	112.3	67.5
50°	194.2	200.8	209.2	222.5	234.1	235.8	224.0	199.9	166.5	120.4	71.0
52.5°	213.0	222.1	232.7	248.2	260.0	257.9	242.5	215.3	177.2	125.9	72.9
55°	238.8	248.2	260.2	273.7	285.4	280.3	259.3	228.5	185.7	130.0	73.5
57.5°	268.3	275.4	287.2	301.1	308.7	299.9	275.9	241.3	193.8	130.1	68.8
60°	297.2	305.6	318.6	332.1	336.4	321.2	287.4	243.3	185.8	116.1	55.1
62.5°	340.1	348.5	355.1	357.3	349.6	319.1	274.0	222.5	160.2	91.6	39.0
65°	388.0	378.4	365.7	353.7	332.8	286.4	236.2	182.8	124.3	61.2	26.9
67.5°	400.5	371.4	343.7	317.1	278.1	228.1	178.2	128.6	79.7	34.8	18.3
69°	387.5	344.9	314.1	271.9	231.6	170.7	122.8	82.4	47.6	24.2	15.3
70°	363.6	319.3	277.6	232.3	179.4	130.4	81.6	54.0	31.1	17.7	13.7
72.5°	274.3	219.3	169.1	109.8	66.9	37.1	26.1	18.7	14.8	13.0	11.8
75°	158.6	105.6	69.2	36.9	21.9	16.2	14.2	12.6	11.7	11.3	10.2
77.5°	66.9	41.8	28.3	20.7	14.7	12.6	10.9	10.1	10.0	9.7	8.8
80°	30.5	26.1	22.3	15.6	11.2	9.6	8.4	8.2	8.4	8.1	7.2
82.5°	22.6	22.3	18.6	12.0	8.5	6.4	5.2	5.5	6.1	6.7	5.8
85°	18.9	18.9	15.6	9.0	5.6	4.1	4.0	4.5	5.1	5.5	4.7
87.5°	17.3	16.6	9.0	4.6	3.2	2.6	2.5	2.2	2.2	3.8	3.2
90°	1.7	0.8	0.4	0.3	0.4	0.3	0.5	0.4	0.4	0.4	0.4
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



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CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7030-XXB

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P227112

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7030-XXB

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	86.0	85.6	84.8	84.6	84.4	84.0	83.9	83.5	82.6	82.5	82.6
5°	82.1	80.7	79.7	79.0	78.4	76.8	76.2	75.6	74.4	74.0	73.5
7.5°	77.4	75.8	73.9	72.6	71.0	69.3	68.0	66.4	65.1	64.4	63.0
10°	73.9	71.6	69.2	66.4	64.3	61.8	60.2	58.3	56.3	54.4	53.0
12.5°	71.1	68.0	64.5	61.2	58.1	55.5	52.6	49.9	47.4	44.8	42.6
15°	68.9	65.1	60.5	56.4	52.7	48.8	45.5	41.8	38.6	36.4	33.6
17.5°	66.5	61.6	56.2	51.4	46.5	42.4	38.3	34.5	31.4	28.5	26.2
20°	63.6	57.6	51.8	46.3	40.7	36.0	31.8	28.2	25.2	22.9	21.2
22.5°	60.4	53.4	46.6	40.6	35.0	30.4	26.5	23.7	21.5	20.2	19.7
25°	57.2	49.2	41.6	34.9	29.4	25.4	22.8	20.5	19.4	18.9	18.9
27.5°	54.3	44.9	36.5	30.0	24.6	21.5	19.5	18.5	18.0	18.0	18.3
30°	51.6	40.6	31.6	25.0	20.7	18.4	17.3	17.0	17.1	17.4	17.8
32.5°	48.4	36.5	27.4	21.5	18.0	16.5	15.6	15.7	16.1	16.7	17.3
35°	45.1	32.2	23.7	18.9	16.1	14.9	14.4	14.5	15.1	15.9	16.5
37.5°	42.1	28.7	20.9	16.8	14.8	14.0	13.6	13.7	14.1	15.0	15.8
40°	39.1	25.7	18.6	15.6	14.0	13.2	13.0	12.9	13.2	14.1	15.0
42.5°	36.5	23.1	17.2	14.8	13.5	12.8	12.5	12.5	12.6	13.3	14.3
45°	35.0	21.6	16.3	14.2	13.1	12.5	12.1	12.0	12.2	12.6	13.5
47.5°	35.0	20.8	15.7	13.7	12.7	12.2	11.8	11.7	11.8	12.2	13.1
50°	36.2	21.0	15.6	13.6	12.6	11.9	11.4	11.4	11.6	12.2	12.9
52.5°	37.2	21.3	15.9	13.7	12.6	11.7	11.2	11.1	11.4	12.0	12.6
55°	37.1	21.3	16.1	14.0	12.8	11.8	11.1	11.0	11.2	11.8	12.4
57.5°	33.1	20.1	15.9	14.2	13.1	12.2	11.5	11.3	11.4	12.0	12.5
60°	26.8	17.8	15.2	14.2	13.7	13.0	12.3	12.1	12.2	12.7	13.3
62.5°	21.0	15.9	14.3	14.1	13.9	13.6	13.3	13.1	13.1	13.6	14.1
65°	17.1	14.3	13.7	13.7	13.9	13.8	13.7	13.7	13.7	13.9	14.4
67.5°	14.3	12.9	12.7	13.0	13.1	13.2	13.3	13.2	13.3	13.6	14.2
69°	13.0	12.1	12.0	12.1	12.5	12.6	12.7	12.6	12.7	13.0	13.6
70°	12.2	11.5	11.4	11.6	11.9	12.0	12.1	12.0	12.1	12.4	13.0
72.5°	10.6	9.8	9.6	9.7	10.0	10.0	10.2	10.3	10.2	10.2	10.7
75°	9.1	8.2	7.8	7.9	7.9	7.9	8.0	8.0	7.9	7.8	7.9
77.5°	7.6	6.7	6.1	6.1	6.1	6.1	5.8	5.9	6.0	5.9	6.0
80°	6.0	5.2	4.7	4.7	4.7	4.5	4.4	4.4	4.6	4.8	4.7
82.5°	4.6	3.8	3.6	3.5	3.5	3.3	3.3	3.5	3.4	3.5	3.7
85°	3.3	2.7	2.5	2.6	2.5	2.3	2.4	2.6	2.6	2.6	2.7
87.5°	2.0	1.7	1.6	1.7	1.5	1.3	1.2	1.3	1.5	1.4	1.5
90°	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3	0.2
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



REPORT NUMBER: P227112  
 CATALOG NUMBER: IST-AF-XXX-LED-E1-SL4-7030-XXB

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P227112  
 NUMBER: IST-AF-XXX-LED-E1-SL4-7030-XXB

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
88.1	88.1	88.1	88.1	88.1
82.0	82.2	81.1	81.6	81.3
73.0	72.6	72.5	72.2	71.7
62.5	62.2	61.1	61.5	60.7
51.7	51.6	49.7	49.8	48.8
41.7	40.1	39.4	38.3	38.8
32.3	31.0	29.4	28.9	29.5
24.3	23.1	22.3	21.6	21.3
20.1	19.4	19.0	18.7	18.5
19.5	19.3	19.2	19.0	19.0
19.0	19.2	19.2	19.2	19.0
18.6	19.0	19.0	19.0	18.8
18.2	18.4	18.4	18.4	18.1
17.6	17.8	17.8	17.8	17.6
16.9	17.1	17.2	17.2	17.2
16.4	16.6	16.7	16.9	17.2
15.8	16.1	16.1	16.5	16.8
15.0	15.4	15.5	15.8	16.1
14.3	14.7	14.8	15.1	15.5
13.9	14.3	14.3	14.5	14.8
13.5	13.7	13.6	13.7	13.8
13.1	13.2	13.1	13.3	13.4
12.7	12.9	13.1	13.2	13.3
12.9	13.1	13.2	13.5	13.6
13.7	14.0	14.3	14.7	14.9
14.4	14.9	15.6	17.2	17.8
14.9	15.5	17.2	19.9	20.7
14.6	15.4	17.5	20.3	21.3
14.1	14.7	17.0	19.9	20.7
13.4	14.0	16.3	19.5	20.2
10.8	11.2	13.7	16.7	17.2
7.9	8.2	10.2	11.4	11.3
6.1	6.5	7.2	7.3	7.2
4.9	5.0	5.4	5.4	5.5
3.8	3.8	4.0	3.8	3.8
2.8	2.7	2.6	2.6	2.5
1.6	1.6	1.4	1.2	1.1
0.2	0.3	0.3	0.2	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	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

**CANDELA DISTRIBUTION:**

	160°
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

'227112

IST-AF-XXX-LED-E1-SL4-7030-XXB

**TION (continued):**

165°	170°	175°	180°
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	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	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	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

(END OF REPORT)