

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: P226455

Luminaire Tested: **IST-AF-XXX-LED-E1-T3-8030-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226455  
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-T3-8030-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 543.4 lumens  
Efficiency: N/A  
Efficacy: 41.8 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

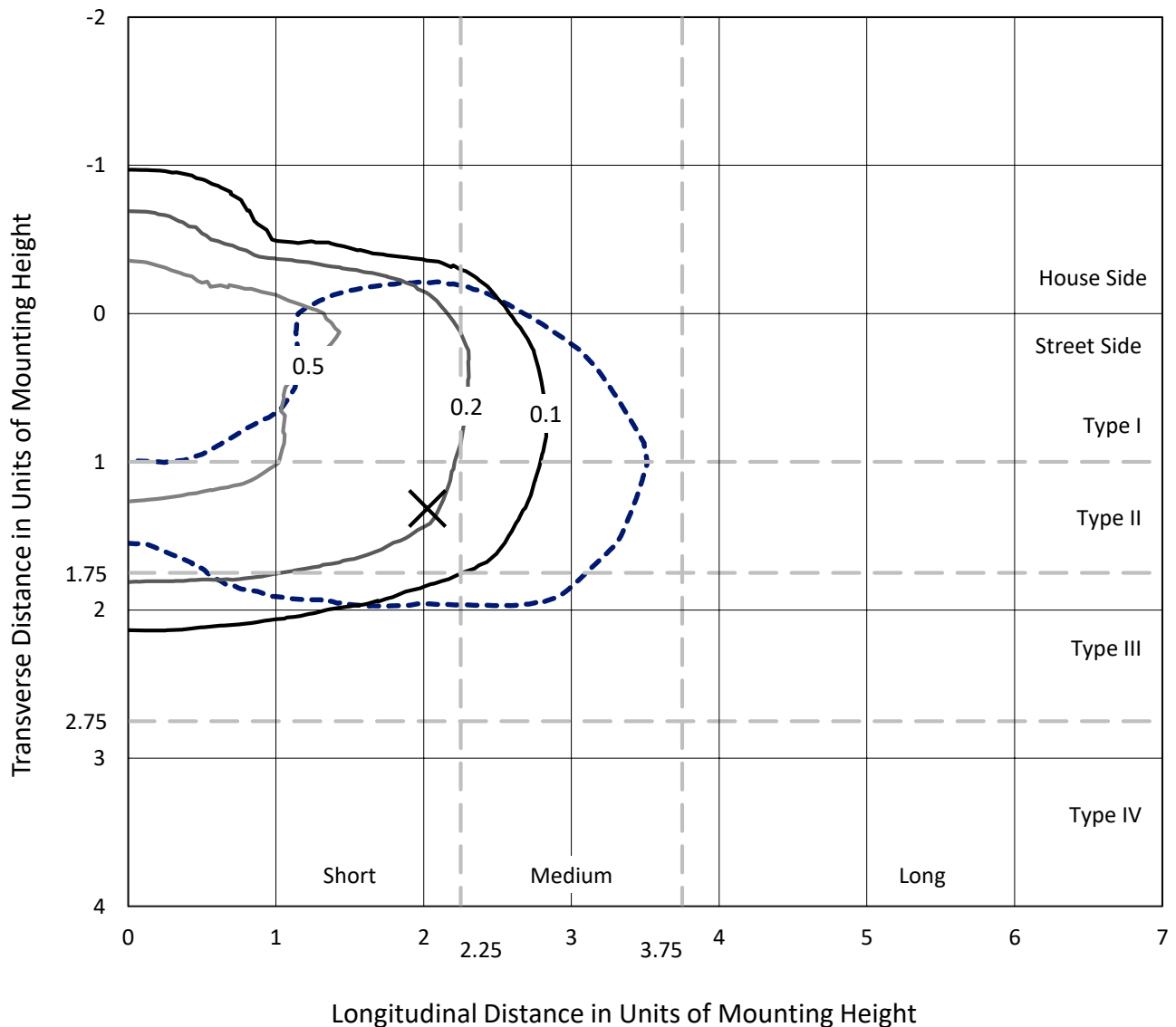
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

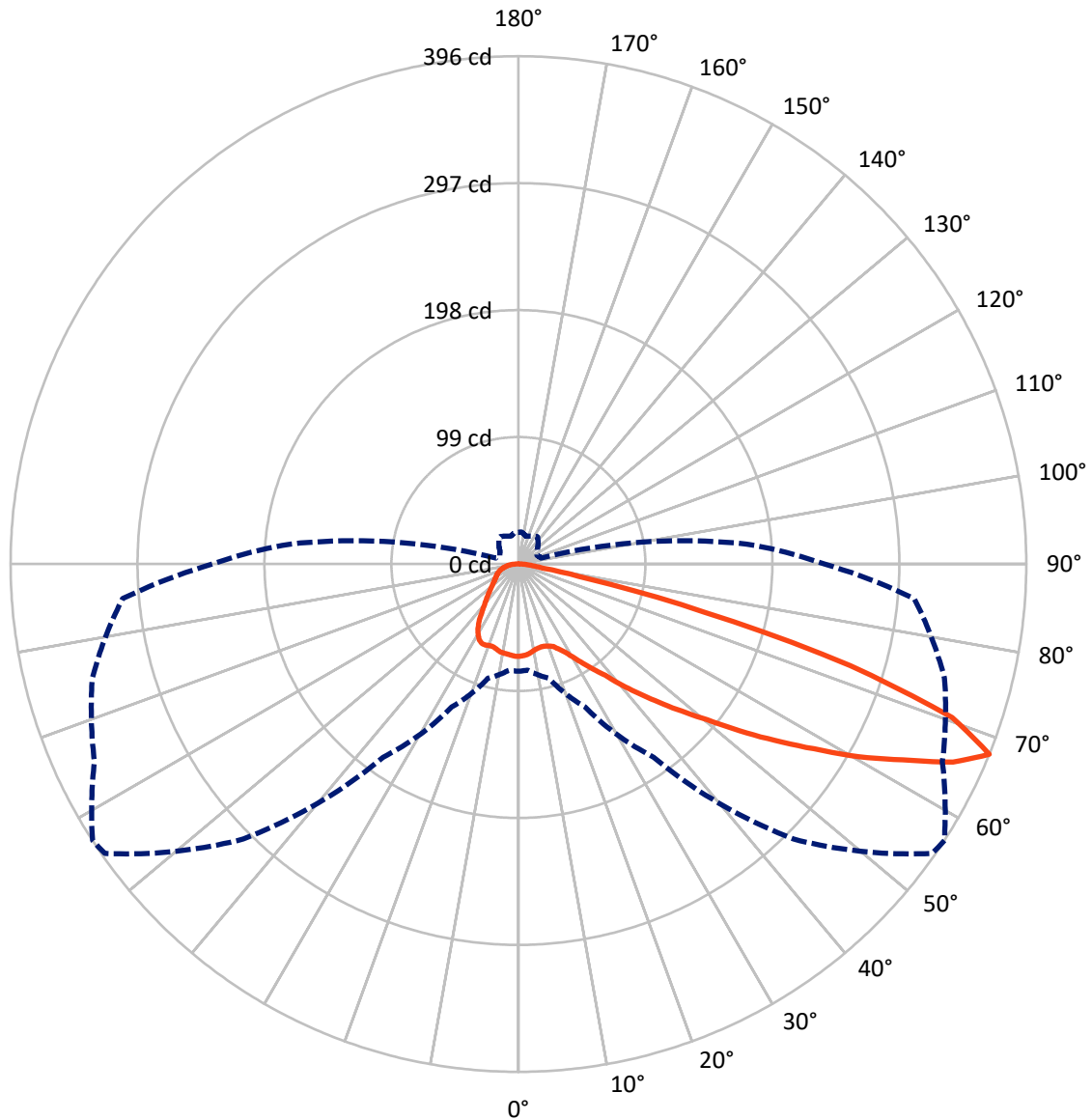
× Max cd  
 - - - 1/2 Max cd



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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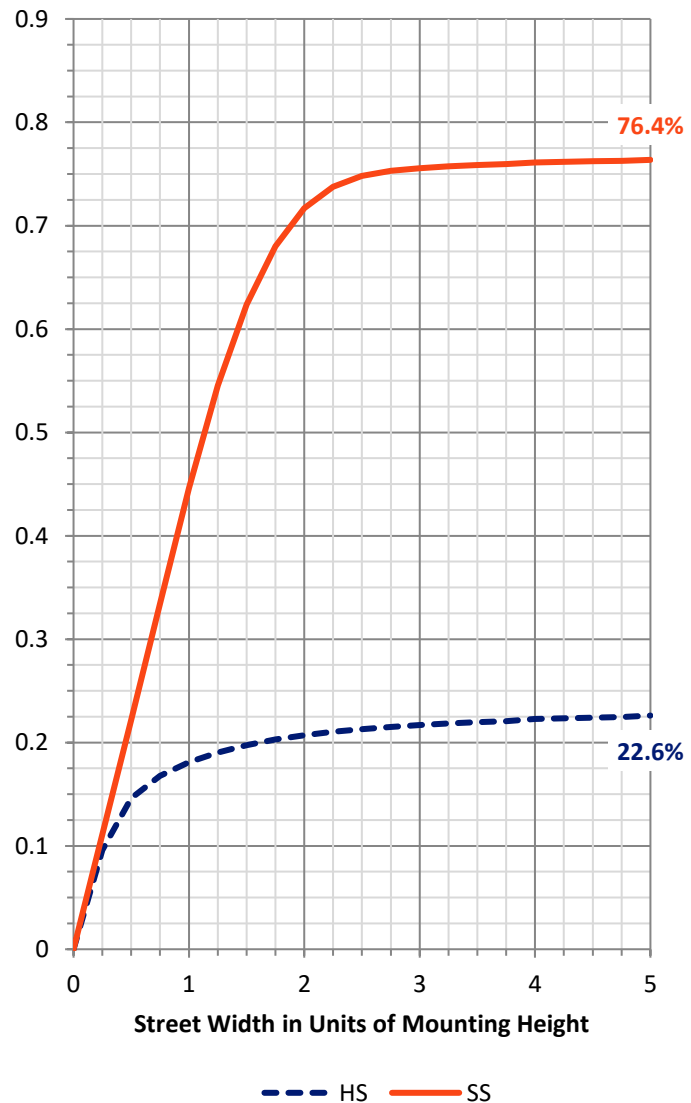
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	126.5	0.2	126.6
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	416.8	0.0	416.8
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	543.2	0.2	543.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.7	1.2
10°-20°	19.4	3.6
20°-30°	33.3	6.1
30°-40°	54.2	10.0
40°-50°	87.4	16.1
50°-60°	130.3	24.0
60°-70°	146.7	27.0
70°-80°	56.6	10.4
80°-90°	8.8	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°	543.2	100.0
0°-180°	543.4	100.0



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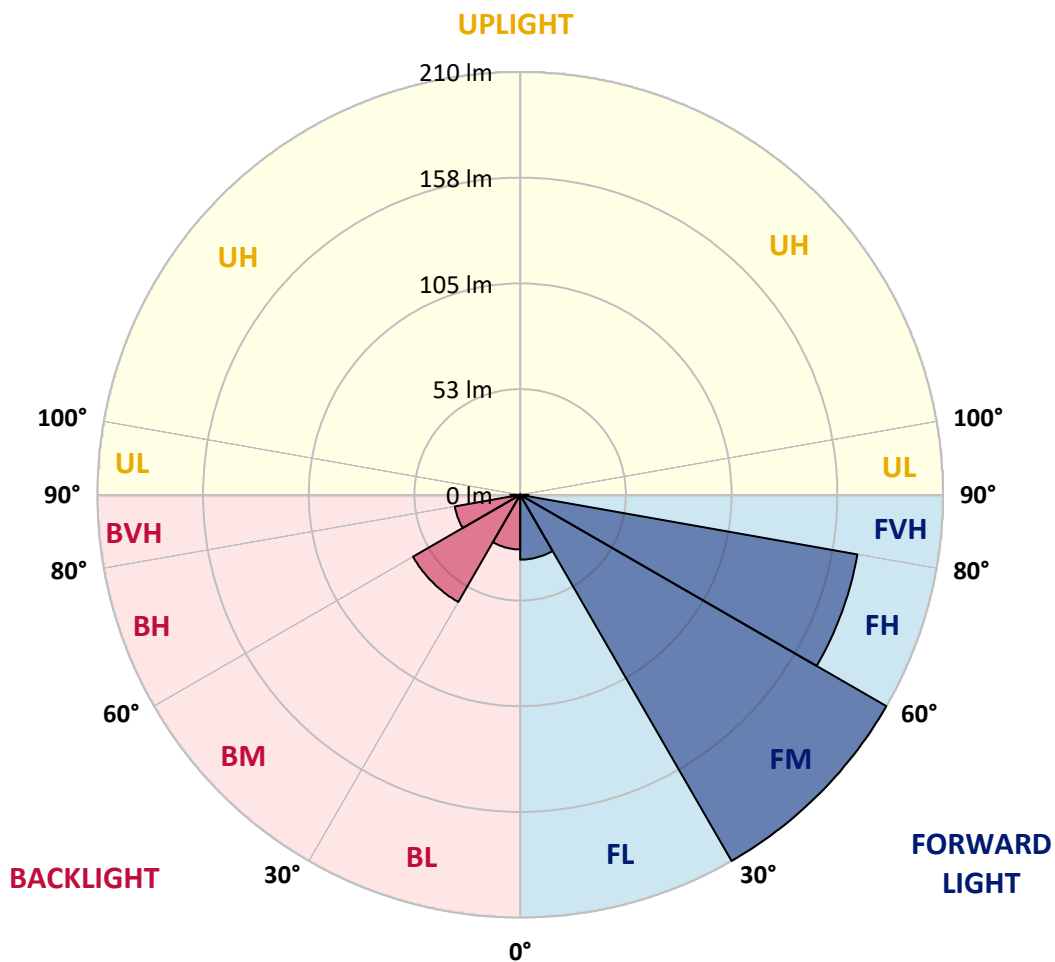
CATALOG NUMBER: IST-AF-XXX-LED-E1-T3-8030-XXB

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	32.2	5.9			
FM	(30°-60°)	210.2	38.7			
FH	(60°-80°)	170.3	31.3			G0/660
FVH	(80°-90°)	4.0	0.7			G0/10
BL	(0°-30°)	27.2	5.0	B0/110		
BM	(30°-60°)	61.5	11.3	B0/220		
BH	(60°-80°)	33.0	6.1	B0/110		G0/110
BVH	(80°-90°)	4.7	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°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2.5°	71.5	71.6	71.8	71.7	71.7	71.7	71.7	71.5	71.8	71.8	71.6
5°	70.3	70.4	70.4	70.6	70.8	70.9	71.0	71.0	71.1	71.0	70.8
7.5°	68.6	68.6	68.9	68.9	69.1	69.4	69.6	69.7	70.0	70.0	69.9
10°	68.0	68.0	68.0	67.8	67.9	68.0	68.2	68.2	68.9	69.2	69.3
12.5°	68.6	68.6	68.6	67.9	67.4	67.1	67.4	67.4	68.2	68.6	68.9
15°	70.0	70.0	69.9	68.9	67.8	67.0	66.9	66.9	67.4	68.2	68.7
17.5°	73.4	73.7	72.6	71.1	69.3	67.8	67.3	67.2	67.6	68.2	68.7
20°	79.6	79.6	77.9	75.2	72.1	69.7	68.4	68.2	68.2	68.5	69.1
22.5°	87.1	86.8	84.8	81.5	77.1	72.8	70.2	69.9	69.3	69.5	70.4
25°	95.2	95.2	92.8	88.4	83.0	77.8	73.8	73.5	72.2	72.0	73.0
27.5°	103.2	104.2	100.9	96.7	90.3	84.1	78.3	77.8	76.7	76.3	77.2
30°	114.9	114.5	110.4	105.0	98.5	90.7	85.2	84.4	82.0	82.6	83.6
32.5°	124.8	125.7	122.0	115.5	107.0	98.9	92.5	92.0	89.7	90.4	91.8
35°	136.9	139.0	134.1	126.2	118.0	109.6	101.9	100.7	98.9	100.1	101.2
37.5°	150.8	151.8	148.0	137.8	129.5	120.7	112.0	110.0	108.1	110.7	112.6
40°	164.0	165.7	160.8	152.1	142.5	134.0	124.6	124.2	119.6	122.5	127.6
42.5°	183.6	185.7	177.9	167.8	159.1	148.9	139.9	137.8	132.9	136.9	145.4
45°	197.3	197.2	192.0	183.6	178.3	168.4	156.3	153.8	148.4	153.8	165.3
47.5°	202.3	203.5	201.6	200.6	198.7	191.6	173.7	171.3	166.3	174.3	184.9
50°	209.6	209.3	209.3	215.6	221.0	219.5	194.1	190.7	185.4	195.0	210.2
52.5°	211.5	208.6	213.1	225.1	242.3	243.6	217.8	215.9	209.6	218.9	237.7
55°	206.2	205.5	212.5	230.0	257.1	266.1	245.2	242.6	235.6	243.5	267.4
57.5°	194.4	196.2	207.5	229.0	267.4	285.9	275.4	271.7	261.5	266.3	296.8
60°	182.0	182.9	197.8	225.3	270.1	299.7	307.0	304.9	287.5	290.3	318.6
62.5°	168.3	166.3	181.7	222.3	267.0	318.7	337.7	336.1	315.5	314.7	334.1
65°	130.1	132.9	146.1	183.8	246.0	333.5	374.3	372.2	346.8	334.7	332.4
67.5°	83.6	83.0	92.3	122.9	183.9	303.1	393.4	395.8	364.6	343.8	309.6
70°	30.0	30.9	34.3	55.8	100.8	202.0	346.8	358.6	351.5	326.9	252.0
72.5°	18.3	18.3	20.8	25.1	40.8	95.8	247.2	270.4	286.9	269.3	186.1
75°	14.3	14.2	15.1	17.3	22.0	31.4	131.4	149.4	184.0	186.1	105.9
77.5°	11.3	11.3	12.1	13.1	16.4	16.6	41.9	54.6	84.4	79.5	37.9
80°	9.1	9.1	9.7	10.0	12.0	11.5	16.8	19.5	29.6	26.0	16.4
82.5°	8.3	8.3	8.9	7.6	8.3	8.1	10.5	11.2	14.9	15.4	9.8
85°	5.4	5.5	8.3	7.4	5.4	5.0	6.7	7.1	9.3	10.2	4.8
87.5°	2.5	2.8	6.4	6.1	3.6	2.7	3.8	4.0	5.0	6.2	2.8
90°	0.5	0.5	0.8	0.9	0.5	0.5	0.6	0.6	0.6	0.8	0.8
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°	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
2.5°	71.9	71.7	71.8	71.9	71.9	72.2	72.3	72.3	72.3	72.2	72.3
5°	71.0	70.8	70.8	71.1	71.3	71.6	72.1	72.5	72.6	72.7	72.7
7.5°	70.0	69.9	70.0	70.4	70.8	71.0	71.5	71.7	72.3	72.3	72.5
10°	69.4	69.6	69.7	70.0	70.4	70.4	70.3	70.1	70.0	70.4	70.2
12.5°	69.0	69.3	69.2	69.7	69.8	69.2	68.2	67.0	66.8	67.0	67.1
15°	68.9	68.9	69.1	69.1	68.3	67.1	65.9	66.0	66.1	66.6	66.6
17.5°	68.9	68.9	69.1	68.6	67.1	66.0	65.8	65.6	64.7	64.5	64.2
20°	69.4	69.3	69.4	68.4	67.1	66.3	64.5	62.7	61.1	60.4	60.1
22.5°	70.8	70.5	70.4	69.4	67.8	64.9	61.4	58.7	55.9	54.9	54.6
25°	73.1	73.0	72.5	71.8	67.4	61.7	57.2	53.0	49.9	48.2	48.3
27.5°	77.3	77.3	77.0	73.8	64.9	57.7	51.6	47.3	44.2	42.6	42.3
30°	83.6	83.7	83.9	74.4	61.1	51.8	45.5	42.6	40.7	39.5	39.4
32.5°	91.4	92.2	91.2	73.7	55.8	44.6	40.7	39.7	38.7	37.9	37.9
35°	101.7	104.0	97.6	71.2	49.9	39.7	37.8	37.1	36.4	35.8	35.9
37.5°	115.5	117.8	101.7	67.0	42.3	37.0	36.1	35.0	33.9	32.7	32.6
40°	131.9	131.2	103.1	58.9	37.6	35.7	34.5	33.1	31.2	29.4	29.1
42.5°	148.3	143.6	101.9	49.0	34.6	34.5	32.8	31.0	29.1	27.6	27.6
45°	166.6	154.4	98.3	39.7	32.1	33.2	31.2	29.3	27.5	26.4	26.4
47.5°	183.9	164.6	92.3	33.1	29.7	31.6	29.9	28.2	26.5	25.6	25.3
50°	204.2	176.1	87.8	28.6	27.3	29.9	29.2	27.6	26.1	24.9	24.8
52.5°	224.8	187.4	84.3	25.6	25.2	28.6	28.9	27.9	26.3	24.2	24.0
55°	246.3	201.5	77.4	23.1	23.3	27.7	29.3	28.6	27.4	23.9	23.8
57.5°	264.3	214.5	65.2	21.5	21.8	27.0	29.4	28.1	26.8	24.1	23.8
60°	278.4	223.4	47.9	20.1	20.5	26.2	28.7	26.4	24.7	24.1	23.7
62.5°	282.7	223.7	31.8	18.6	19.4	24.9	27.5	25.6	23.5	23.8	23.7
65°	271.8	211.9	22.7	17.1	18.6	23.3	26.9	24.7	23.0	24.2	24.1
67.5°	238.4	178.5	18.3	15.9	17.4	21.6	25.9	23.9	22.5	25.1	24.6
70°	185.7	128.1	15.5	14.7	16.1	20.1	24.5	23.1	21.9	24.4	23.8
72.5°	122.5	75.4	13.7	13.6	14.6	18.7	22.9	22.3	20.9	22.1	21.2
75°	63.9	34.9	11.9	12.4	13.0	17.6	21.5	20.9	19.3	19.8	19.4
77.5°	25.1	16.4	10.3	10.9	11.6	15.8	19.7	19.0	17.7	17.3	17.2
80°	13.8	11.0	8.6	9.3	9.8	14.2	17.8	17.1	15.7	15.4	15.2
82.5°	8.7	7.2	7.1	7.6	8.2	12.7	16.0	14.9	13.7	16.1	13.1
85°	4.1	4.3	5.0	5.7	6.4	10.8	13.9	12.8	11.6	11.3	10.0
87.5°	2.3	2.8	3.3	3.9	4.4	7.6	11.0	9.9	8.7	7.4	7.6
90°	0.6	0.6	0.9	0.9	0.9	1.1	5.4	4.9	4.3	2.0	1.3
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-T3-8030-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)