

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: P226722

Luminaire Tested: **IST-AF-XXX-LED-E1-T4W-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)
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-T4W-7030-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 588.6 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 IV - Medium - 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

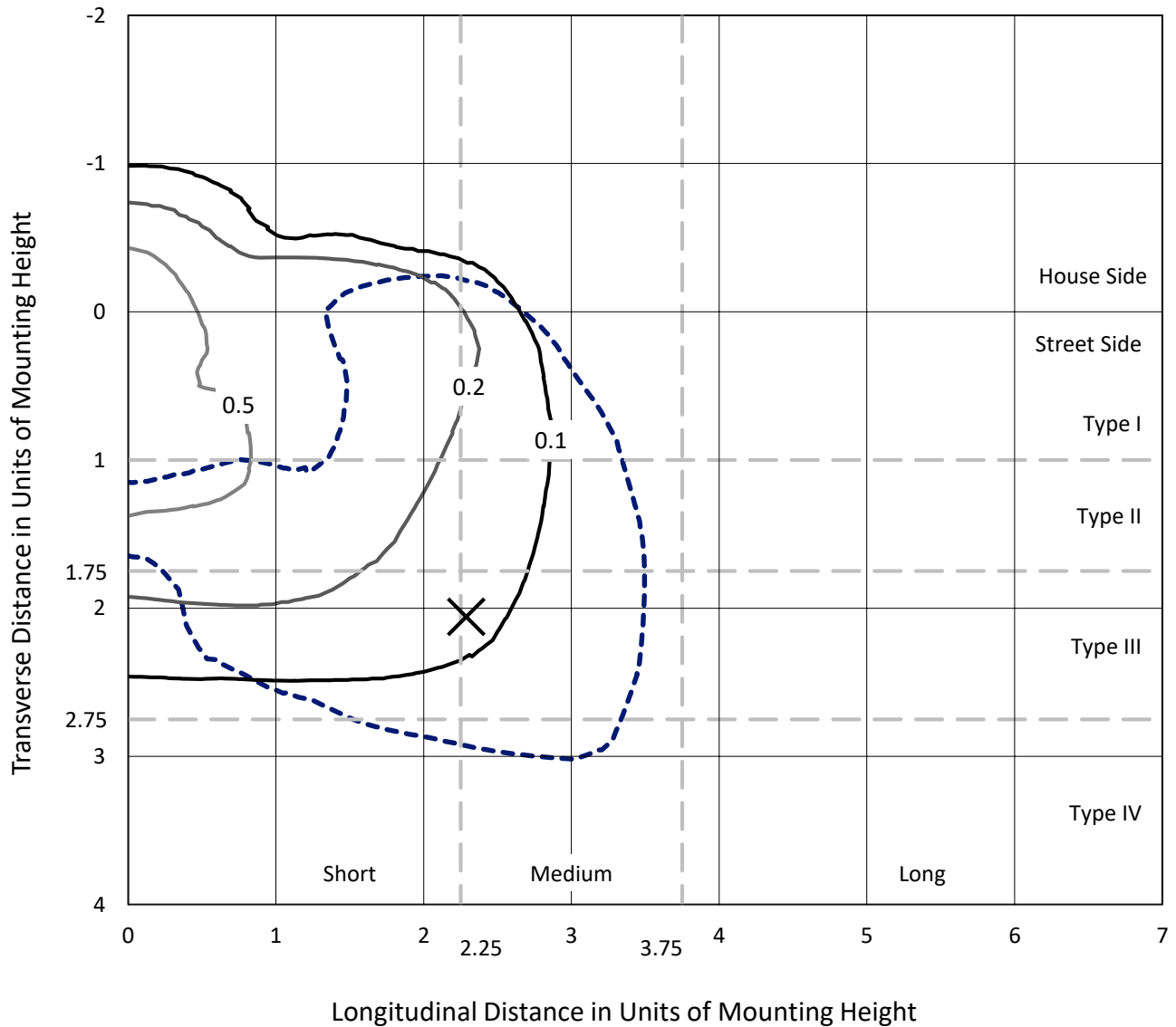


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Iso-Footcandle Lines of Horizontal Illumination

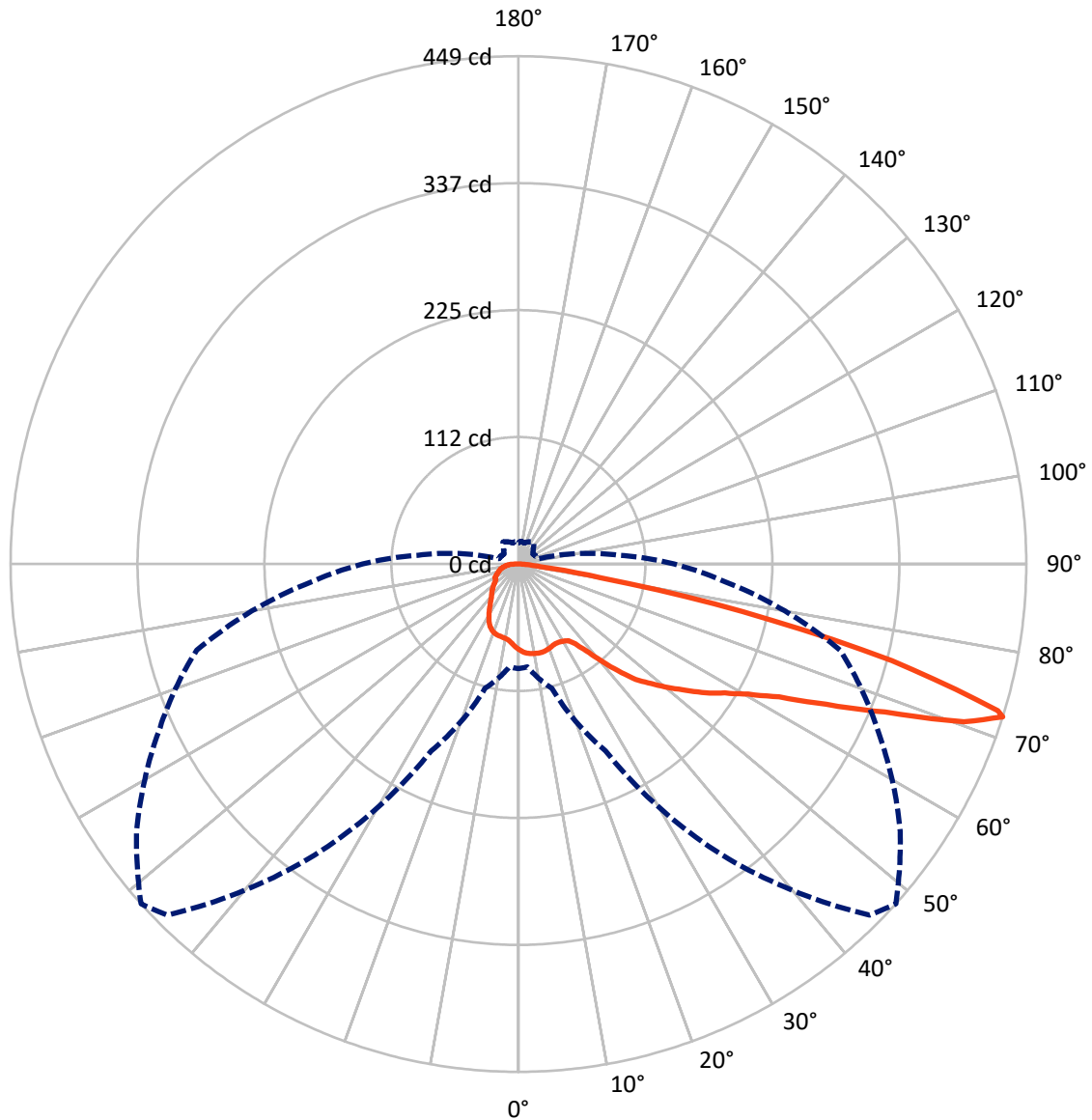
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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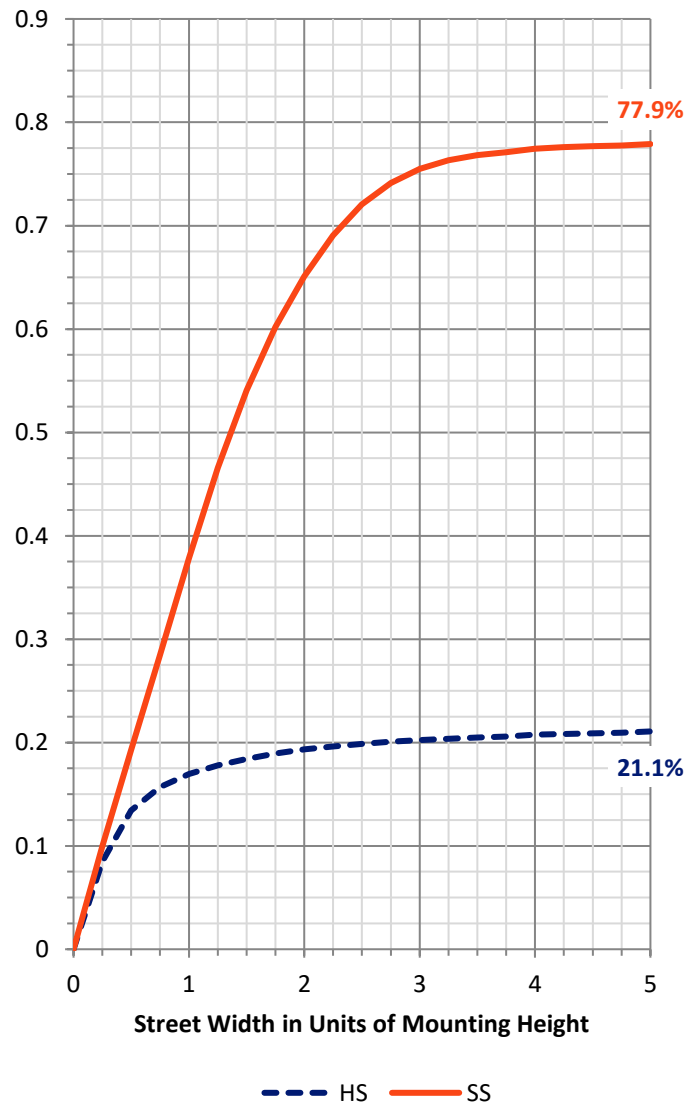
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.8	0.3	128.1
	% Fixture	21.7	0.0	21.8
Street Side	Lumens	460.4	0.1	460.5
	% Fixture	78.2	0.0	78.2
Total	Lumens	588.3	0.4	588.6
	% Fixture	99.9	0.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	1.2
10°-20°	20.9	3.6
20°-30°	32.3	5.5
30°-40°	48.3	8.2
40°-50°	80.5	13.7
50°-60°	125.8	21.4
60°-70°	166.2	28.2
70°-80°	96.1	16.3
80°-90°	11.0	1.9
90°-100°	0.4	0.1
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°	588.3	99.9
0°-180°	588.6	100.0



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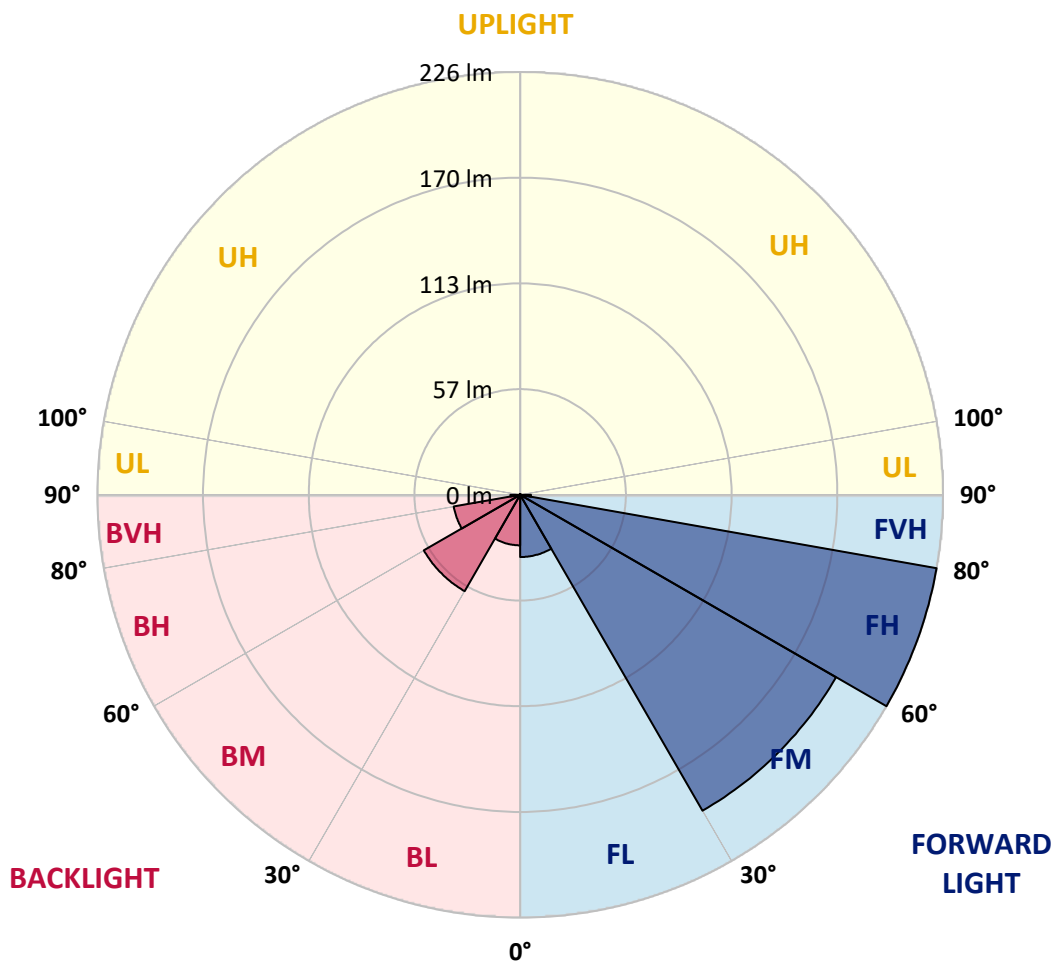
CATALOG NUMBER: IST-AF-XXX-LED-E1-T4W-7030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	33.3	5.7			
FM	(30°-60°)	195.2	33.2			
FH	(60°-80°)	226.2	38.4			G0/660
FVH	(80°-90°)	5.8	1.0			G0/10
BL	(0°-30°)	27.0	4.6	B0/110		
BM	(30°-60°)	59.5	10.1	B0/220		
BH	(60°-80°)	36.1	6.1	B0/110		G0/110
BVH	(80°-90°)	5.2	0.9			G0/10
UL	(90°-100°)	0.4	0.1		U1/10	
UH	(100°-180°)	0.3	0.0		U1/10	

BUG Rating: B0-U1-G0

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2.5°	79.7	79.7	79.7	79.0	78.7	78.3	77.9	77.4	76.9	76.3	75.6
5°	83.6	83.8	83.5	82.5	81.2	79.8	79.3	78.1	76.5	75.0	73.7
7.5°	87.3	87.3	86.4	84.7	82.7	80.6	79.9	78.3	76.5	74.5	72.6
10°	89.9	90.0	88.6	86.2	83.6	81.2	80.4	78.8	76.6	74.4	72.0
12.5°	91.4	91.5	89.5	87.0	83.8	81.4	80.8	79.1	76.8	74.0	71.3
15°	91.2	91.4	89.7	87.0	83.7	81.5	80.7	79.2	76.3	73.6	70.7
17.5°	89.5	89.8	88.4	85.5	82.8	81.1	80.2	78.7	75.9	73.0	69.8
20°	86.1	86.6	86.0	83.1	81.3	79.9	79.3	77.9	75.3	72.3	69.1
22.5°	82.4	82.8	82.6	80.3	79.4	78.7	78.1	77.1	74.8	71.8	68.7
25°	79.7	80.0	79.7	77.7	77.9	77.9	77.6	76.8	74.7	72.0	68.7
27.5°	84.2	84.2	82.0	77.8	77.4	78.1	77.9	77.5	75.8	72.8	69.4
30°	100.7	99.5	95.4	84.9	79.6	79.2	79.1	78.9	77.4	74.7	71.5
32.5°	119.3	118.0	113.2	100.1	88.9	81.5	80.8	80.9	80.4	77.9	74.8
35°	135.7	135.6	131.8	117.6	103.3	89.6	86.6	84.5	84.4	83.3	80.9
37.5°	149.1	149.1	149.4	133.2	118.9	102.5	97.3	90.8	90.8	90.2	88.7
40°	164.3	164.9	165.7	147.4	135.7	117.9	112.0	102.2	99.2	100.1	100.5
42.5°	184.2	185.1	184.6	164.9	150.9	136.3	129.0	117.1	109.8	111.3	114.9
45°	197.7	198.1	201.7	183.1	170.2	151.8	145.7	129.3	122.1	125.2	131.6
47.5°	213.0	213.9	214.5	203.9	192.7	169.4	158.1	141.2	136.5	141.3	151.3
50°	228.0	226.8	228.5	228.0	214.0	185.0	171.6	152.3	152.7	159.1	175.5
52.5°	240.9	237.2	240.9	245.6	241.5	201.1	185.4	165.4	170.3	178.3	204.1
55°	250.9	241.9	248.2	261.5	260.6	215.2	201.2	182.8	191.1	201.9	238.9
57.5°	230.5	231.6	249.0	272.2	271.8	229.6	215.1	204.6	214.7	226.8	280.0
60°	211.5	216.4	243.3	273.9	279.5	245.2	233.7	229.3	238.7	253.5	319.5
62.5°	201.4	206.1	234.0	270.7	291.9	268.3	258.7	255.4	268.2	284.7	354.7
65°	204.6	207.5	233.4	275.5	306.2	303.3	299.2	293.6	300.0	315.5	370.5
67.5°	195.7	200.5	228.5	284.0	332.2	346.0	349.5	343.6	338.2	336.0	347.4
70°	145.7	150.3	179.6	249.0	353.5	420.1	418.0	398.0	361.8	331.6	271.4
72°	92.5	91.3	113.7	182.4	314.3	439.2	449.2	412.3	351.1	294.5	184.3
72.5°	67.3	73.3	94.3	162.2	298.6	428.8	443.4	407.7	337.0	278.2	162.1
75°	16.4	17.3	22.6	58.1	174.8	322.6	341.1	315.0	246.0	165.1	71.9
77.5°	11.1	11.5	14.9	20.5	51.4	184.0	202.4	173.9	110.0	56.2	32.0
80°	8.3	8.5	10.8	14.5	21.3	62.8	74.0	58.8	27.4	31.2	22.8
82.5°	5.8	6.0	8.2	10.7	14.2	14.7	19.6	21.6	17.8	20.4	13.3
85°	4.0	4.0	6.0	7.3	9.0	7.3	7.8	10.8	12.0	12.1	8.1
87.5°	2.1	2.4	3.5	4.7	4.7	3.3	3.7	5.5	6.7	7.3	4.9
90°	0.8	0.8	1.5	1.8	1.1	0.9	0.8	1.1	1.6	2.3	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



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2.5°	75.4	74.9	74.2	73.8	73.7	73.3	73.0	72.8	72.8	72.5	72.6
5°	73.0	72.2	71.3	70.6	70.5	70.5	70.7	70.7	70.8	70.5	70.9
7.5°	71.8	70.9	69.6	68.8	68.2	68.1	68.5	69.2	69.5	69.2	69.6
10°	70.9	70.0	68.5	67.5	67.1	66.9	67.2	67.9	69.0	69.0	69.3
12.5°	70.1	68.9	67.4	66.7	66.3	66.4	66.8	67.3	68.5	68.9	69.1
15°	69.2	67.9	66.6	65.7	65.7	65.9	66.3	66.9	68.0	68.8	69.0
17.5°	68.4	67.0	65.9	65.1	65.1	65.5	65.9	66.7	67.4	68.6	68.6
20°	67.6	66.5	65.1	64.4	64.3	64.5	65.1	65.8	66.4	67.5	67.6
22.5°	67.2	65.8	64.5	63.4	63.0	62.8	63.3	64.1	64.7	65.8	66.0
25°	67.0	65.5	63.8	61.9	60.8	60.4	60.7	61.6	62.2	63.0	63.3
27.5°	67.6	66.2	63.5	60.1	57.8	56.9	57.1	57.7	57.9	58.8	59.3
30°	69.7	68.0	64.0	58.2	54.0	52.3	52.3	52.4	52.7	53.4	53.5
32.5°	73.0	71.4	65.6	56.3	50.2	47.8	47.2	46.8	46.8	46.7	46.8
35°	79.1	77.8	68.2	54.0	46.0	43.4	41.9	41.2	40.4	40.0	40.0
37.5°	88.0	86.8	72.0	51.5	42.3	39.7	37.9	36.4	35.5	35.4	35.9
40°	101.3	100.1	76.2	48.6	38.8	36.9	35.0	33.4	32.4	32.5	33.0
42.5°	117.6	113.9	80.7	44.7	36.0	35.0	33.0	31.6	30.6	30.1	30.1
45°	136.6	130.5	84.9	41.0	33.0	33.4	31.4	29.9	28.7	27.3	27.1
47.5°	160.3	147.0	88.7	37.3	29.6	31.7	29.8	28.3	26.6	24.9	24.7
50°	185.1	166.1	91.9	33.4	26.6	29.8	28.2	26.2	23.7	22.3	22.3
52.5°	213.7	188.9	96.1	29.0	24.3	27.7	26.1	23.6	21.5	21.3	21.3
55°	245.5	212.9	99.0	25.6	22.5	25.5	24.8	24.0	23.3	23.5	23.6
57.5°	278.8	237.9	96.5	23.2	21.1	25.0	27.2	26.2	24.1	24.0	23.9
60°	307.5	257.4	82.3	21.7	20.0	25.9	29.2	26.2	24.1	25.2	25.3
62.5°	326.3	266.6	54.8	19.7	18.4	24.4	28.5	25.4	24.2	27.3	27.6
65°	323.7	256.3	31.5	18.4	17.3	22.5	27.6	24.5	22.5	24.3	23.8
67.5°	285.6	214.8	22.8	17.8	16.6	21.1	25.9	23.1	21.0	23.2	22.3
70°	205.2	146.2	19.6	17.2	16.1	19.5	24.7	22.3	20.1	21.7	20.2
72°	137.7	89.0	18.0	16.8	15.5	18.4	23.8	21.6	19.4	20.2	18.6
72.5°	117.2	70.2	17.6	16.6	15.4	18.2	23.6	21.4	19.2	20.1	18.5
75°	43.8	27.5	15.6	15.4	14.2	16.9	22.5	20.7	18.4	18.1	17.4
77.5°	22.5	17.4	13.3	13.6	12.7	15.5	21.4	19.5	16.9	16.0	15.6
80°	16.4	12.6	10.8	11.5	10.8	13.9	19.9	17.7	15.4	14.3	13.9
82.5°	10.3	7.9	8.2	9.1	9.2	12.3	18.1	15.9	13.7	12.8	12.1
85°	5.0	4.7	5.8	6.7	7.4	10.4	16.6	14.1	12.0	10.2	10.3
87.5°	2.6	3.6	3.5	4.5	5.7	8.5	14.7	11.5	9.6	7.7	7.8
90°	0.6	0.9	1.0	1.8	2.3	3.7	9.5	6.6	6.4	2.7	2.4
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-T4W-7030-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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

(END OF REPORT)