

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: P226613

Luminaire Tested: **IST-AF-XXX-LED-E1-T4FT-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)
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-T4FT-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 688.5 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U1 - G0

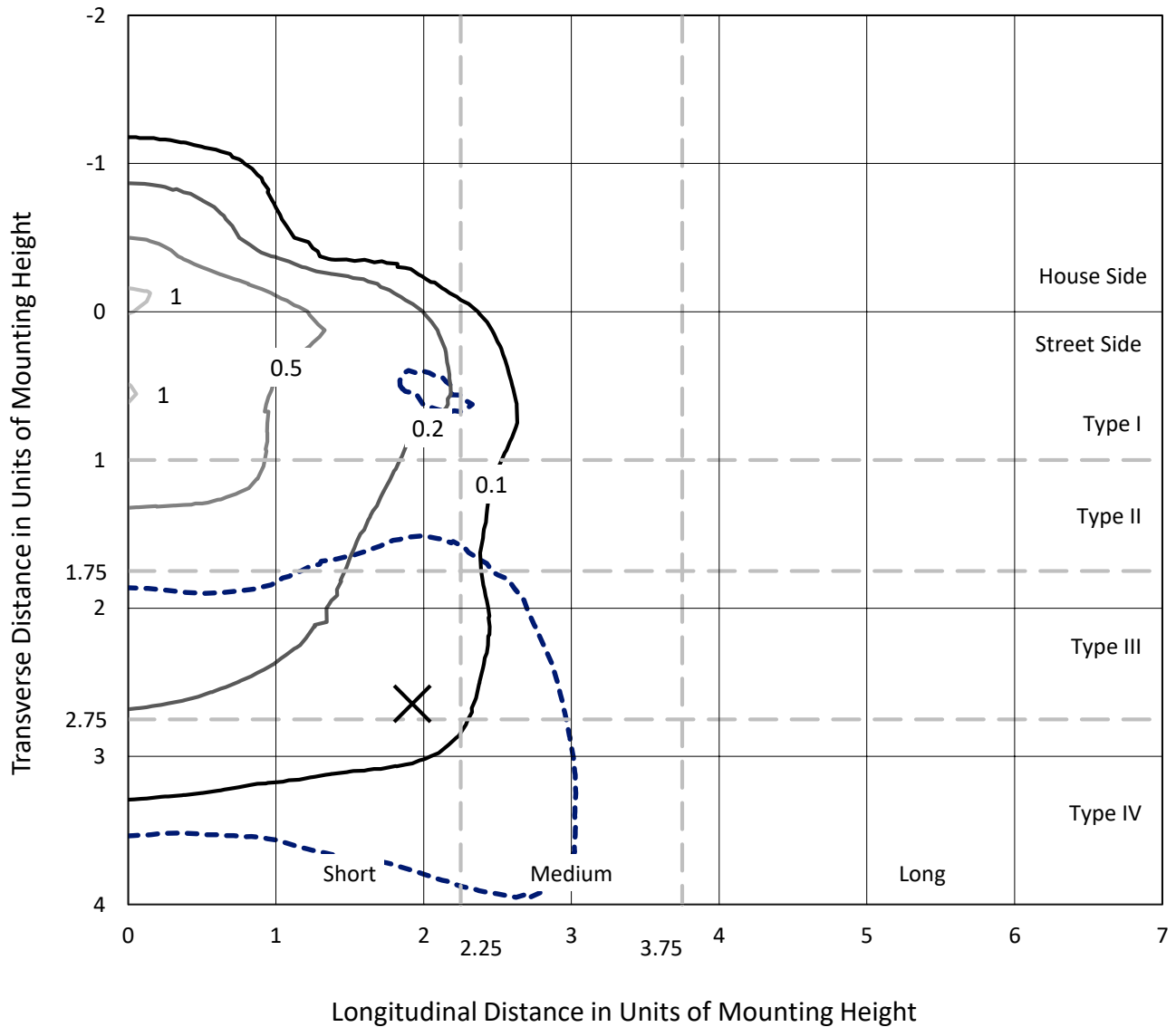
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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 CATALOG NUMBER: IST-AF-XXX-LED-E1-T4FT-XXB

Iso-Footcandle Lines of Horizontal Illumination

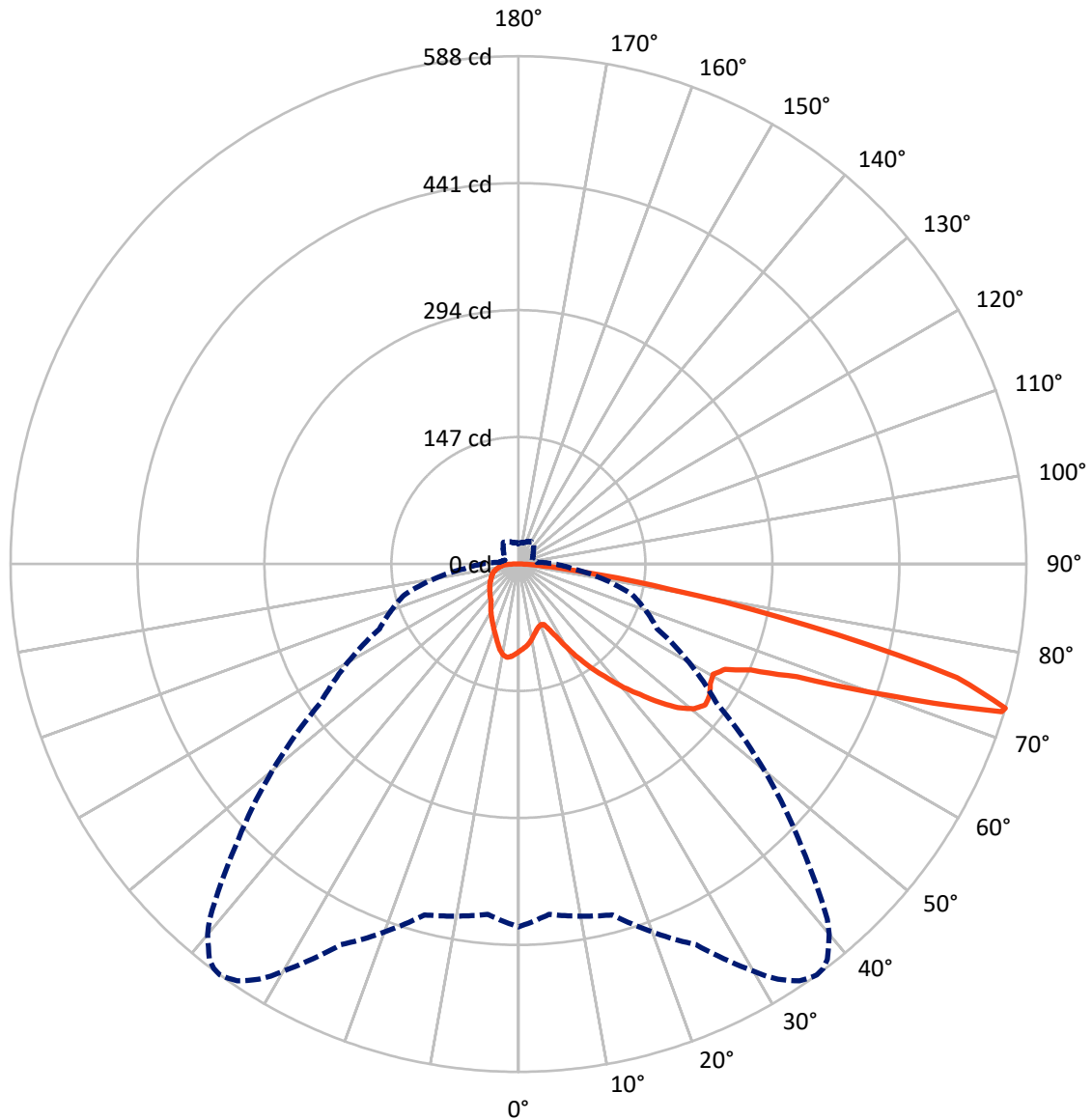
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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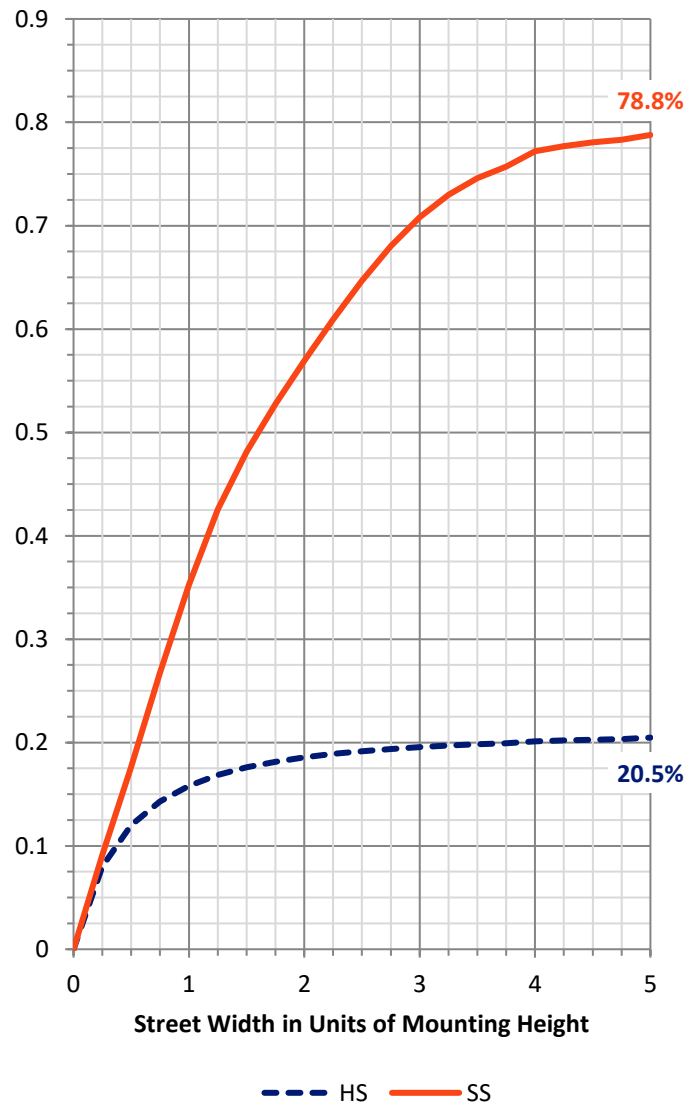
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	145.2	0.2	145.3
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	543.1	0.1	543.2
	% Fixture	78.9	0.0	78.9
Total	Lumens	688.3	0.2	688.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	1.4
10°-20°	25.2	3.7
20°-30°	41.3	6.0
30°-40°	68.5	9.9
40°-50°	100.6	14.6
50°-60°	126.9	18.4
60°-70°	166.2	24.1
70°-80°	134.5	19.5
80°-90°	15.5	2.2
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°	688.3	100.0
0°-180°	688.5	100.0



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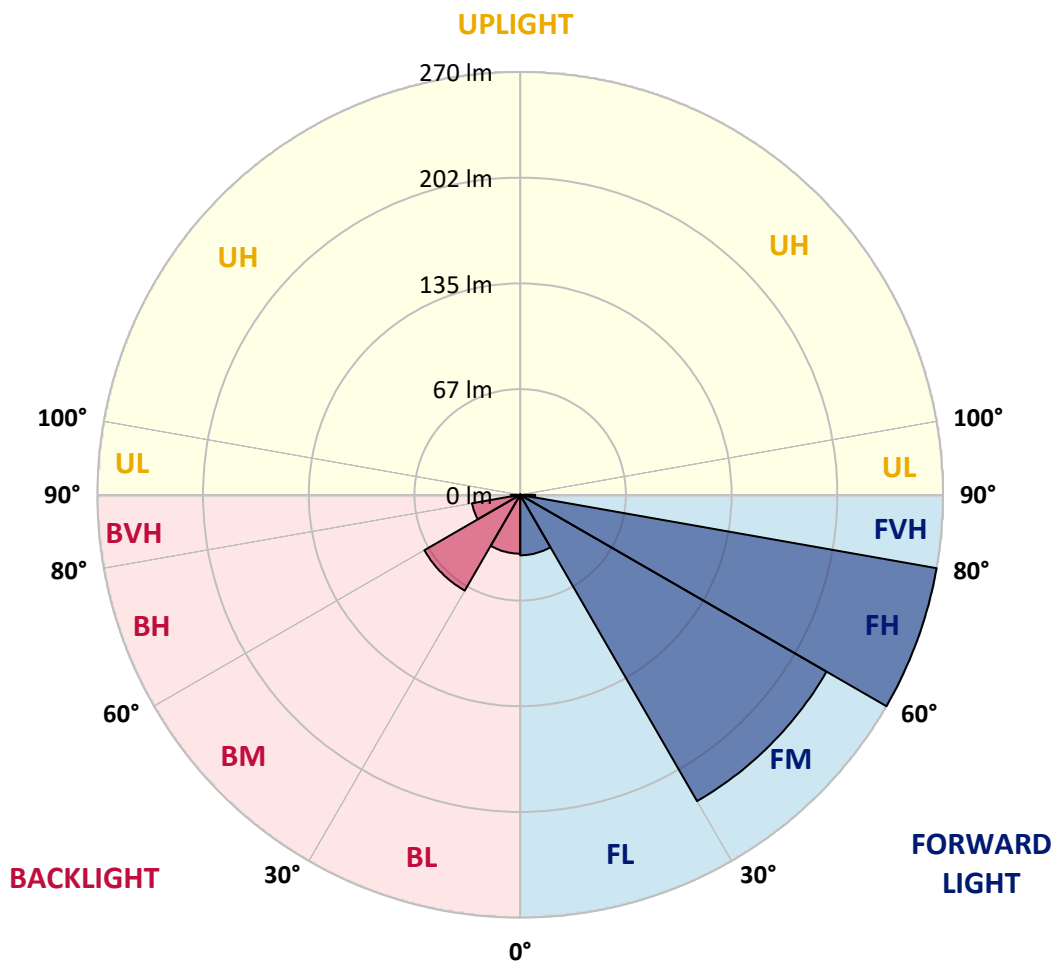
CATALOG NUMBER: IST-AF-XXX-LED-E1-T4FT-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	38.5	5.6			
FM	(30°-60°)	225.5	32.7			
FH	(60°-80°)	269.6	39.2			G0/660
FVH	(80°-90°)	9.5	1.4			G0/10
BL	(0°-30°)	37.5	5.5	B0/110		
BM	(30°-60°)	70.6	10.2	B0/220		
BH	(60°-80°)	31.1	4.5	B0/110		G0/110
BVH	(80°-90°)	5.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
0°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
2.5°	97.5	97.7	97.9	97.9	97.9	98.2	98.1	98.1	98.2	98.3	98.3
5°	93.8	93.9	94.5	94.7	95.3	95.2	95.2	95.2	95.6	95.3	95.5
7.5°	89.7	89.9	90.4	91.1	91.7	91.8	91.7	91.5	92.0	92.2	92.0
10°	84.7	84.8	85.6	86.2	87.1	87.0	87.3	87.3	87.4	87.4	87.7
12.5°	82.2	82.0	81.7	81.9	82.1	82.1	82.1	82.4	82.3	82.6	82.9
15°	81.9	81.5	79.5	78.9	78.7	78.7	78.6	78.5	78.8	79.1	79.1
17.5°	83.4	82.3	78.6	76.5	76.2	76.0	76.1	75.9	75.9	76.2	76.2
20°	90.1	88.3	80.6	76.2	75.1	75.1	75.0	74.7	74.7	74.8	74.8
22.5°	107.1	104.9	91.5	82.4	78.4	78.3	77.9	77.6	76.8	76.6	76.2
25°	130.9	128.3	105.3	95.6	89.8	89.6	88.1	87.9	86.0	86.1	84.8
27.5°	149.4	147.6	123.7	110.9	105.4	104.1	103.5	101.7	100.1	98.8	97.3
30°	155.7	155.4	142.4	132.0	123.7	122.3	120.5	119.7	117.4	115.6	114.6
32.5°	165.6	165.9	160.5	149.0	141.9	140.5	138.9	137.1	135.4	134.3	131.8
35°	179.8	179.9	176.2	167.7	159.4	157.4	156.6	154.4	152.9	151.4	150.2
37.5°	189.8	190.2	187.5	181.0	176.0	173.3	173.3	171.7	170.0	168.7	167.6
40°	208.7	206.0	197.2	192.9	188.9	188.6	187.7	186.9	187.2	186.6	187.8
42.5°	227.8	224.4	212.2	206.2	203.8	204.2	203.9	204.0	205.2	204.9	206.3
45°	244.2	240.3	228.7	221.6	223.5	224.1	225.9	226.8	226.3	228.1	228.1
47.5°	260.5	251.5	237.7	241.0	242.4	246.9	248.2	247.9	249.5	250.3	248.2
50°	249.0	246.6	245.5	255.5	261.8	263.2	264.8	265.8	266.6	265.5	263.3
52.5°	224.6	224.4	239.8	264.1	269.3	271.3	272.9	273.5	273.2	272.7	270.9
55°	216.5	214.9	228.1	255.2	263.2	265.0	267.4	268.7	270.2	270.0	268.5
57.5°	227.6	226.3	226.4	247.5	255.2	256.9	258.4	259.9	260.3	261.7	261.8
60°	259.9	258.3	244.8	247.1	255.0	256.9	257.1	258.0	258.1	258.8	258.9
62.5°	306.6	303.6	282.9	265.1	267.9	268.8	269.5	269.3	268.9	268.4	268.4
65°	357.7	354.9	328.4	307.6	299.6	301.8	298.3	297.7	296.9	296.9	295.9
67.5°	418.5	413.1	392.5	369.3	357.7	358.9	360.4	354.4	352.2	352.4	347.8
70°	480.5	474.8	465.7	465.4	471.3	468.7	461.5	471.1	459.6	456.8	455.9
72.5°	446.2	439.5	441.3	497.1	549.3	557.8	565.9	573.4	580.1	584.1	584.7
73°	420.0	407.0	420.4	486.0	544.0	556.5	566.6	574.6	581.8	585.4	587.7
75°	209.7	210.4	276.5	400.9	475.5	486.2	501.9	510.7	523.6	530.4	524.5
77.5°	48.6	50.4	83.8	190.3	285.0	300.4	312.9	325.8	340.8	346.5	341.6
80°	17.2	18.0	29.5	72.3	119.0	127.5	138.2	152.3	166.3	169.8	178.5
82.5°	9.1	9.9	15.5	31.4	50.8	55.5	58.3	64.1	69.0	72.0	73.6
85°	5.2	5.3	8.9	17.4	23.3	25.2	26.9	28.3	29.9	28.8	28.8
87.5°	2.0	2.3	4.5	8.2	11.3	12.5	12.5	12.5	12.5	10.9	9.9
90°	0.4	0.6	0.9	1.6	1.4	1.4	1.4	1.2	1.1	1.2	0.7
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-T4FT-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	30°	31°	32°	33°	34°	35°	36°
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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CATALOG NUMBER: IST-AF-XXX-LED-E1-T4FT-XXB

CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
0°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
2.5°	98.4	98.5	98.4	98.7	98.4	98.4	98.9	99.8	100.6	100.8	101.3
5°	95.6	95.7	95.7	95.9	95.7	96.0	96.9	97.7	99.0	99.7	100.7
7.5°	92.2	92.5	92.4	92.6	92.6	92.8	94.1	95.4	96.8	98.1	99.1
10°	87.9	88.1	88.5	88.3	88.3	88.9	90.3	92.3	93.9	95.7	97.1
12.5°	82.9	83.4	83.3	83.7	83.9	84.3	86.7	88.8	90.8	93.0	94.7
15°	79.0	79.2	79.4	79.5	79.5	80.4	82.9	85.4	88.2	90.7	92.6
17.5°	76.3	76.3	76.5	76.6	76.8	77.4	80.0	82.9	86.0	89.2	91.1
20°	74.9	74.9	75.0	75.1	75.1	75.8	78.2	81.4	84.8	88.9	91.2
22.5°	76.1	75.8	75.7	75.7	75.3	75.3	77.5	81.0	85.3	90.5	93.6
25°	84.2	83.3	81.8	81.6	81.1	78.8	78.5	82.3	87.7	94.2	98.8
27.5°	96.3	95.4	94.5	93.4	92.7	88.3	82.3	85.9	92.3	101.5	107.2
30°	112.2	110.4	109.1	107.9	104.4	99.7	90.5	91.5	99.2	111.7	118.9
32.5°	129.9	128.1	126.1	123.4	122.4	114.8	103.0	100.7	108.1	123.5	131.0
35°	147.1	146.2	144.8	143.7	141.7	135.2	119.2	111.7	118.4	137.4	143.2
37.5°	167.0	165.3	165.4	164.6	163.4	157.9	136.0	125.0	129.4	150.8	154.4
40°	186.7	186.3	186.9	185.4	183.4	176.0	148.3	134.7	141.0	163.6	162.6
42.5°	205.2	205.5	204.8	203.2	201.0	188.7	156.2	143.0	151.3	174.8	169.3
45°	226.4	225.4	222.5	219.5	216.9	199.6	160.4	152.3	161.3	187.0	176.0
47.5°	246.4	242.2	239.8	235.2	230.0	209.4	166.1	162.1	172.4	198.4	182.4
50°	261.2	257.2	253.1	247.6	242.0	218.0	173.7	173.2	184.8	211.2	191.2
52.5°	267.8	264.2	260.1	254.5	249.0	224.2	183.9	183.9	199.7	228.2	203.4
55°	266.8	264.1	260.5	255.4	251.1	227.6	194.4	195.7	218.2	246.5	217.4
57.5°	261.1	259.5	257.5	253.9	250.5	230.2	206.6	207.6	243.1	264.2	230.6
60°	259.1	258.5	257.3	255.2	252.6	235.8	219.8	221.8	270.9	280.4	238.0
62.5°	267.8	266.7	265.8	263.7	261.3	249.6	236.3	236.9	297.1	282.3	230.8
65°	292.6	290.3	288.9	286.1	283.4	270.4	257.3	250.9	309.9	263.9	206.0
67.5°	344.2	340.6	336.4	331.2	323.6	311.9	278.1	252.9	298.2	223.5	162.4
70°	446.4	438.7	428.9	417.8	414.9	381.0	291.1	238.2	248.0	156.2	107.7
72.5°	583.7	575.7	567.0	557.9	539.7	465.1	285.4	192.2	154.2	80.3	51.2
73°	586.0	580.6	570.1	559.5	544.7	463.7	279.2	177.2	136.0	63.2	42.0
75°	525.5	523.3	513.1	492.6	480.1	391.7	205.6	102.7	59.5	39.1	27.3
77.5°	341.1	338.7	332.9	330.9	307.8	253.9	92.1	40.0	32.3	26.0	19.3
80°	181.7	170.6	168.7	160.8	143.9	97.8	31.5	24.4	21.5	17.4	13.5
82.5°	73.7	68.9	67.2	60.9	57.2	29.3	15.8	17.0	14.4	10.2	8.3
85°	27.1	25.0	24.3	19.8	17.5	8.7	9.7	12.0	9.0	5.7	4.2
87.5°	9.4	8.1	7.0	5.4	5.0	3.6	5.3	6.5	5.7	3.5	1.9
90°	0.7	0.6	0.5	0.4	0.5	0.4	0.6	0.9	1.0	0.6	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



REPORT NUMBER: P226613

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4FT-XXB

CANDELA DISTRIBUTION (continued):

	37°	38°	39°	40°	41°	45°	55°	65°	75°	85°	90°
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: P226613

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4FT-XXB

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2
2.5°	101.5	101.9	102.7	103.3	103.8	104.4	104.6	105.1	104.5	105.2
5°	101.2	102.3	103.8	105.2	106.5	107.5	108.0	108.1	108.2	108.6
7.5°	100.1	101.9	104.2	106.2	108.1	108.8	109.1	109.3	108.5	108.8
10°	98.2	101.1	103.9	106.3	107.2	106.8	106.0	104.6	104.0	104.0
12.5°	96.0	99.6	103.1	104.3	103.5	101.6	99.4	97.1	96.2	96.2
15°	94.2	98.8	101.7	100.9	98.3	94.7	91.8	89.3	88.5	88.2
17.5°	93.2	98.4	99.5	96.8	92.5	88.0	85.0	83.0	82.2	82.2
20°	94.0	98.8	97.1	92.0	86.5	82.4	79.9	78.6	77.8	78.2
22.5°	97.4	100.4	94.9	87.3	80.6	77.1	76.0	75.1	75.0	75.2
25°	103.0	102.3	93.0	82.2	75.1	72.6	72.5	72.2	72.1	72.0
27.5°	110.3	104.8	90.7	76.7	69.6	68.3	68.9	68.8	68.7	68.8
30°	120.0	106.9	87.4	70.7	64.3	64.3	65.2	65.0	64.5	64.7
32.5°	128.9	108.5	82.2	64.0	60.1	60.4	60.7	59.8	58.9	59.1
35°	136.7	108.5	75.4	58.0	56.0	56.0	56.2	55.4	54.6	54.3
37.5°	143.0	106.4	66.7	53.5	52.5	52.5	53.3	52.6	51.1	50.8
40°	146.9	101.6	58.7	50.1	50.8	50.9	49.8	48.6	47.3	47.0
42.5°	149.4	94.7	52.4	47.8	49.7	48.9	46.3	44.5	44.4	44.8
45°	151.5	87.0	47.4	45.4	48.5	46.9	43.4	41.6	42.2	42.7
47.5°	153.7	79.1	43.3	42.8	46.3	45.2	41.5	39.6	39.3	39.9
50°	158.9	68.2	38.7	39.6	43.7	43.3	39.9	37.5	35.7	35.6
52.5°	165.7	53.8	34.7	36.8	41.6	42.2	38.0	35.8	33.2	32.8
55°	173.4	41.2	31.5	34.7	39.7	40.6	37.3	34.1	31.3	30.9
57.5°	175.7	32.5	28.4	31.6	37.0	39.2	36.2	31.9	29.9	29.5
60°	167.9	27.0	25.9	29.1	34.4	37.6	34.6	30.4	28.5	28.2
62.5°	144.1	23.8	24.4	27.3	32.3	36.3	33.2	29.2	27.7	27.5
65°	110.0	21.7	23.3	26.0	30.6	35.0	32.3	28.7	27.5	27.3
67.5°	69.0	20.2	22.1	24.4	28.8	33.7	31.7	28.1	27.2	26.9
70°	38.3	18.4	20.6	22.8	27.0	32.3	30.8	27.2	27.1	26.5
72.5°	23.3	16.7	18.8	21.0	25.1	30.8	29.2	26.2	25.2	23.9
73°	22.2	16.5	18.4	20.7	24.6	30.4	28.9	25.8	24.8	23.5
75°	18.0	14.8	16.9	18.7	22.8	28.8	27.2	24.3	22.8	21.9
77.5°	13.2	12.6	14.6	16.4	20.6	26.6	24.9	22.3	20.5	19.9
80°	9.7	10.4	12.4	13.9	18.0	24.4	22.4	19.9	18.7	18.1
82.5°	6.6	8.1	9.8	11.2	16.0	22.1	19.8	17.5	18.2	15.2
85°	3.9	5.6	7.1	8.7	12.8	19.7	17.3	14.9	13.0	11.8
87.5°	2.6	3.2	4.3	5.9	9.3	15.4	13.7	11.7	8.5	8.5
90°	0.3	0.4	0.6	0.7	1.3	6.6	4.5	5.4	1.0	0.9
92.5°	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
97.5°	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
102.5°	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
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226613

CATALOG NUMBER: IST-AF-XXX-LED-E1-T4FT-XXB

CANDELA DISTRIBUTION (continued):

	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
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)