

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: P227523

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29767)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-XXX-LED-E1-RW-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUELED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.7 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - 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

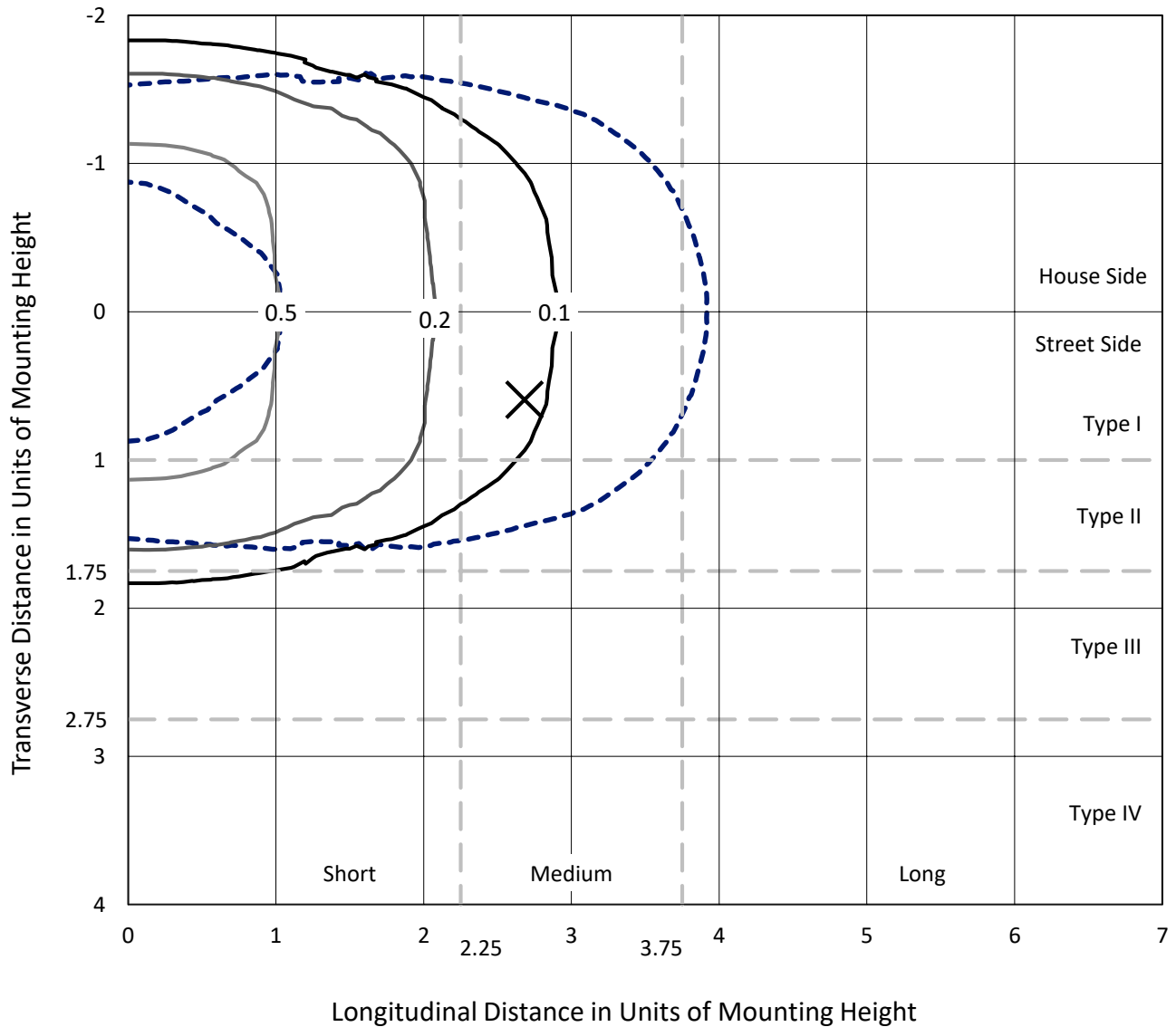


REPORT NUMBER: P227523

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

Iso-Footcandle Lines of Horizontal Illumination

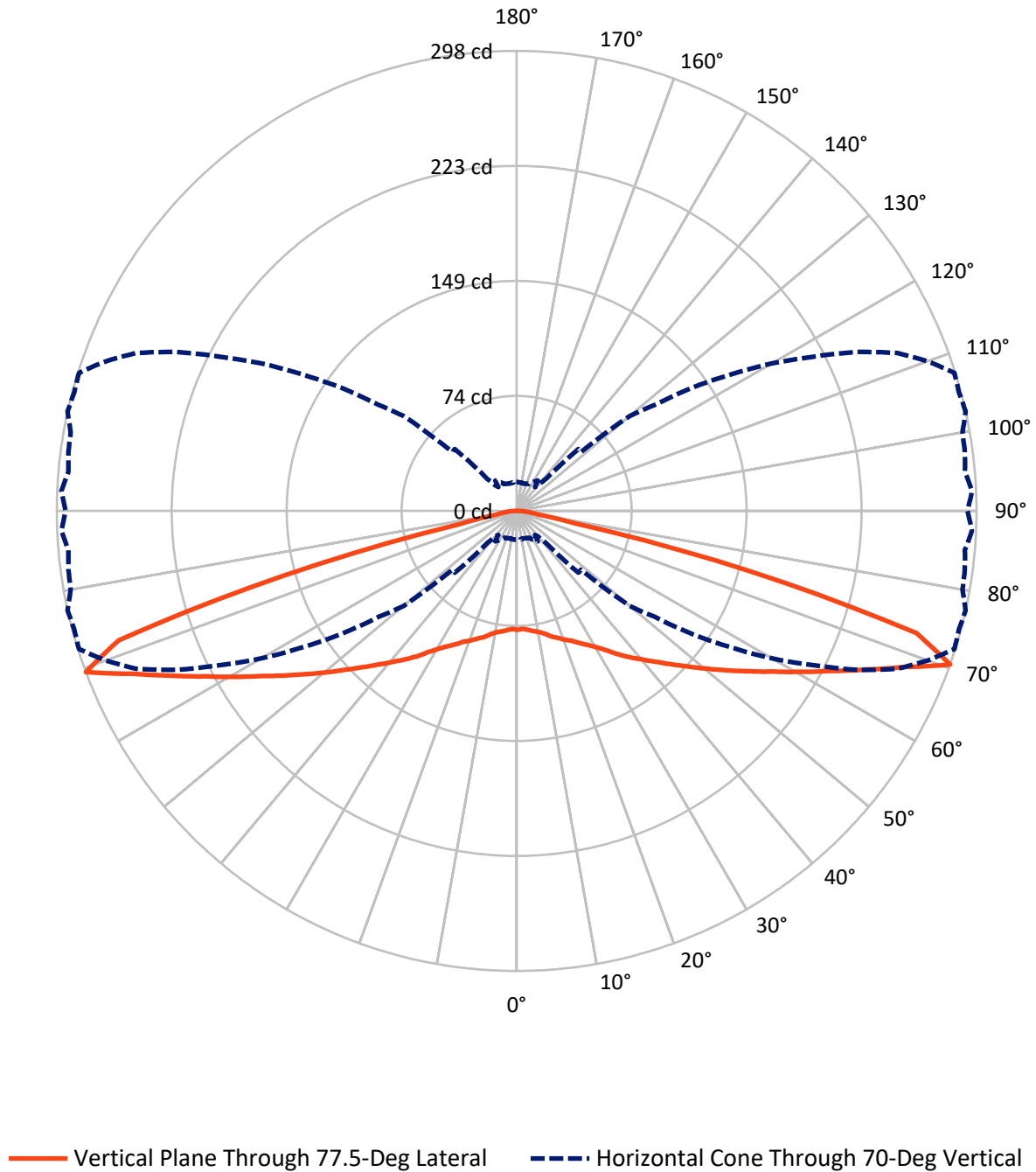
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P227523
CATALOG NUMBER: IST-AF-XXX-LED-E1-RW-XXB

Luminous Intensity Polar Plot



REPORT NUMBER: P227523

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

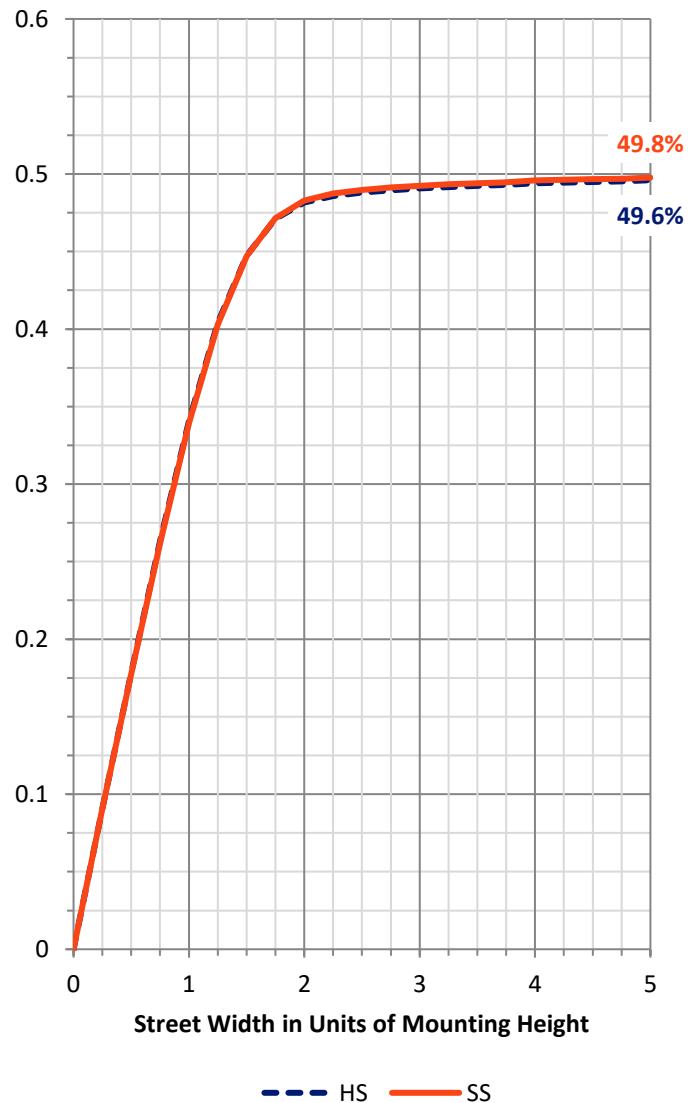
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	335.3	0.1	335.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	335.3	0.1	335.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	670.6	0.1	670.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	1.1
10°-20°	23.3	3.5
20°-30°	43.7	6.5
30°-40°	76.4	11.4
40°-50°	124.5	18.6
50°-60°	170.4	25.4
60°-70°	156.7	23.4
70°-80°	61.3	9.1
80°-90°	6.8	1.0
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°	670.6	100.0
0°-180°	670.7	100.0



REPORT NUMBER: P227523

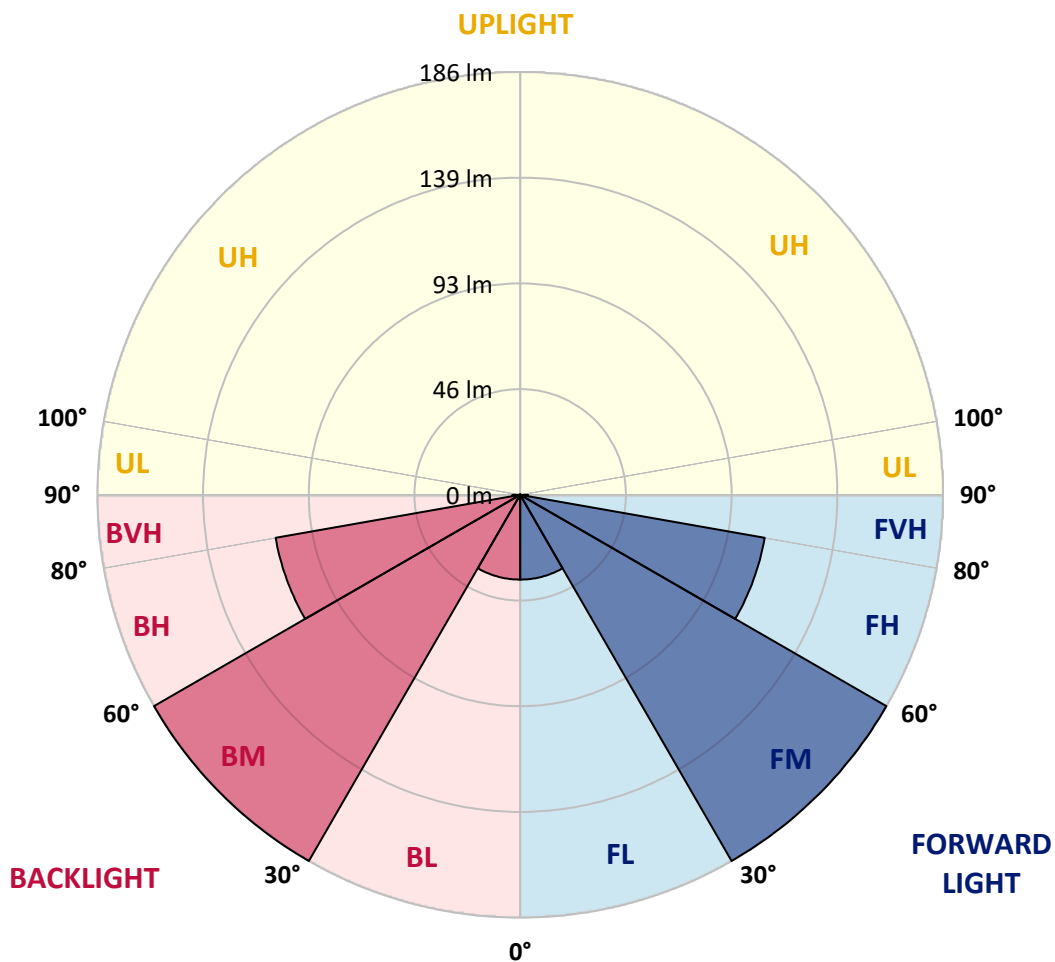
CATALOG NUMBER: IST-AF-XXX-LED-E1-RW-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	37.2	5.5			
FM	(30°-60°)	185.7	27.7			
FH	(60°-80°)	109.0	16.3			G0/660
FVH	(80°-90°)	3.4	0.5			G0/10
BL	(0°-30°)	37.2	5.5	B0/110		
BM	(30°-60°)	185.7	27.7	B0/220		
BH	(60°-80°)	109.0	16.3	B0/110		G0/110
BVH	(80°-90°)	3.4	0.5			G0/10
UL	(90°-100°)	0.1	0.0		U1/10	
UH	(100°-180°)	0.1	0.0		U1/10	

BUG Rating: B0-U1-G0

Type II Medium





REPORT NUMBER: P227523

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	76.7	76.6	76.6	76.7	76.9	77.0	76.8	76.9	76.9	76.8	77.1
5°	76.9	76.8	76.9	77.1	77.4	77.7	77.6	77.6	77.7	77.5	78.1
7.5°	76.7	76.6	76.8	77.3	78.1	78.5	78.5	78.5	78.7	78.6	79.1
10°	75.9	75.8	76.2	77.1	78.5	78.8	79.0	79.1	79.7	79.7	80.3
12.5°	75.1	75.2	75.9	77.2	79.3	79.4	79.8	80.2	81.0	80.6	81.6
15°	75.4	75.6	76.4	78.2	80.9	80.8	81.1	81.5	82.8	81.8	83.7
17.5°	76.8	77.1	78.2	80.1	83.0	82.4	82.9	83.5	85.1	84.1	86.1
20°	79.2	79.6	80.7	82.9	85.5	85.0	85.4	86.1	88.1	87.1	89.1
22.5°	82.3	82.8	84.0	86.4	89.3	88.7	89.1	89.7	91.9	90.1	92.8
25°	86.6	87.1	88.3	90.8	94.1	93.4	93.6	94.0	96.3	94.3	96.8
27.5°	92.6	92.9	94.0	96.5	99.6	99.0	99.2	99.6	102.0	100.0	102.2
30°	100.0	100.5	101.4	103.8	106.6	105.9	106.2	106.5	108.6	106.6	108.4
32.5°	108.9	108.8	110.3	112.8	115.2	114.0	114.0	114.0	116.0	114.1	115.4
35°	119.4	119.4	120.8	123.3	125.5	124.0	123.3	123.0	125.2	122.8	123.7
37.5°	130.8	130.3	132.6	134.8	137.0	135.0	134.4	134.0	135.6	132.9	133.4
40°	142.9	142.6	145.1	147.6	148.9	146.5	146.0	145.4	147.2	144.5	144.4
42.5°	154.0	153.6	156.8	159.8	161.5	158.4	157.6	157.0	159.1	156.4	155.8
45°	163.4	163.3	166.9	170.9	173.9	170.5	170.1	169.1	171.0	167.8	167.5
47.5°	170.6	170.2	174.7	180.7	185.4	181.9	181.8	181.2	183.2	179.6	179.2
50°	175.6	175.8	180.8	187.6	195.3	192.1	192.4	192.1	195.2	191.6	192.1
52.5°	176.5	177.1	183.3	192.4	203.2	199.2	201.4	202.3	206.2	203.2	204.1
55°	165.9	167.6	177.1	192.8	208.0	205.5	208.4	210.9	216.4	213.8	215.5
57.5°	142.4	145.8	156.7	179.6	207.4	208.8	214.5	218.5	225.2	222.8	227.0
60°	110.0	112.3	124.5	151.2	188.4	190.3	200.8	213.4	228.5	231.7	238.2
62.5°	72.0	73.3	85.2	112.3	155.8	156.4	169.5	185.8	212.1	219.0	237.2
65°	35.7	37.5	43.9	64.8	109.1	108.3	122.8	141.8	175.8	183.5	213.2
67.5°	22.3	22.6	23.8	30.0	54.6	48.5	60.4	80.3	121.6	128.5	166.1
70°	18.7	18.6	18.3	19.2	24.0	19.5	21.6	28.2	56.7	56.4	95.7
72.5°	17.3	17.0	16.2	16.1	16.8	15.3	15.5	16.0	22.7	19.0	36.9
75°	15.9	15.2	14.3	14.0	14.0	12.9	12.9	13.0	14.7	13.8	16.8
77.5°	14.2	13.5	12.5	12.2	11.8	10.5	10.4	10.5	11.9	11.0	12.5
80°	12.3	11.6	10.8	10.2	9.7	8.6	8.3	8.3	9.4	8.6	9.7
82.5°	10.6	9.7	9.6	8.6	7.7	6.8	6.4	5.9	7.0	6.0	7.3
85°	7.9	7.2	9.1	7.6	6.1	5.4	4.3	3.7	4.3	3.6	4.6
87.5°	4.5	4.2	8.0	6.0	5.4	5.8	3.6	2.6	2.5	2.1	2.6
90°	0.9	1.0	1.3	0.9	1.2	0.6	0.3	0.3	0.6	0.4	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227523

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

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
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: P227523

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

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	76.8	77.1	76.7	77.1	76.4	77.0	76.5	77.1	76.6	77.1	76.5
5°	77.3	78.2	77.2	78.4	77.0	78.4	77.2	78.5	77.4	78.5	77.3
7.5°	78.2	79.5	78.4	79.7	78.2	79.9	78.5	80.1	78.7	80.2	78.6
10°	79.1	80.9	79.3	81.1	79.2	81.3	79.4	81.6	79.6	81.7	79.7
12.5°	80.0	82.2	80.5	82.9	80.8	83.3	81.1	83.9	81.5	84.4	81.6
15°	81.6	84.6	82.3	85.2	82.9	85.7	83.4	86.5	83.9	87.2	84.4
17.5°	83.9	87.2	84.7	87.6	85.0	88.2	85.6	88.8	86.1	89.5	86.4
20°	86.8	90.0	87.6	90.3	87.9	90.7	88.2	91.0	88.8	91.7	89.0
22.5°	90.1	93.2	90.5	93.3	90.5	93.2	90.7	93.3	91.0	93.7	91.3
25°	94.2	97.1	94.4	96.8	94.0	96.4	94.0	96.4	94.3	96.6	94.8
27.5°	99.8	102.0	99.2	101.3	98.3	100.5	98.0	100.0	98.1	100.0	98.3
30°	106.2	108.1	105.0	106.6	103.4	105.0	102.3	104.0	102.0	103.8	102.5
32.5°	113.0	114.7	111.5	112.8	109.5	110.9	108.0	109.3	107.4	108.6	107.7
35°	120.7	122.3	119.1	120.4	117.0	118.2	115.3	115.9	114.2	114.9	114.2
37.5°	129.9	131.3	127.6	128.7	125.1	126.5	123.2	123.7	121.5	122.0	120.4
40°	139.8	141.3	136.9	138.0	133.5	135.1	131.3	131.7	128.7	129.2	126.7
42.5°	150.5	151.8	146.3	147.3	142.0	143.7	139.2	139.9	136.5	137.0	133.8
45°	162.1	163.0	156.8	157.5	151.1	152.9	147.2	148.6	144.4	145.4	141.8
47.5°	173.1	174.7	168.0	168.6	161.7	162.8	156.2	158.1	153.6	155.1	150.7
50°	185.7	186.9	180.4	180.6	173.8	174.2	166.8	168.8	163.9	165.4	160.7
52.5°	198.5	199.3	192.4	193.0	186.5	187.1	179.7	180.6	174.8	176.2	171.5
55°	210.9	211.1	205.4	205.2	199.0	200.3	192.1	193.8	187.0	188.5	183.3
57.5°	223.3	224.0	218.7	218.9	212.7	213.6	206.2	207.5	201.0	202.9	196.3
60°	236.5	238.7	233.4	234.1	228.2	230.0	221.0	222.7	215.6	218.5	211.5
62.5°	244.9	253.0	252.0	253.1	247.5	248.3	239.1	241.7	233.3	235.4	228.2
65°	228.8	248.7	258.8	269.9	270.1	272.9	264.0	264.9	256.6	256.0	247.7
67.5°	186.6	211.0	228.0	250.6	266.6	281.8	287.3	288.8	284.2	279.4	269.9
70°	112.5	139.3	164.3	191.0	216.0	243.6	267.0	283.2	297.3	296.6	297.9
72.5°	44.5	66.7	83.4	108.4	133.3	163.8	189.7	212.4	236.7	251.5	270.9
75°	17.6	23.2	27.1	41.1	53.0	75.7	98.4	110.8	129.8	142.8	156.3
77.5°	12.6	13.8	14.0	16.3	17.2	23.7	27.8	32.0	36.1	38.7	38.2
80°	9.7	10.5	10.5	11.6	11.5	12.7	12.5	13.6	13.5	14.5	13.8
82.5°	7.3	7.8	7.8	8.6	8.6	9.4	9.2	9.9	9.7	10.3	9.7
85°	4.7	5.2	5.2	5.6	5.4	6.2	6.1	6.8	6.4	6.8	6.2
87.5°	2.7	3.0	3.1	3.4	3.1	3.7	3.6	3.9	3.6	3.9	3.7
90°	0.4	0.6	0.4	0.6	0.3	0.9	0.5	1.0	0.3	1.2	0.5
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



REPORT NUMBER: P227523

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

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
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: P227523

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

CANDELA DISTRIBUTION (continued):

	80°	82.5°	85°	87.5°	90°
0°	77.0	77.0	77.0	77.0	77.0
2.5°	77.0	76.8	77.2	76.6	77.1
5°	78.5	77.5	78.7	77.5	78.6
7.5°	80.3	78.9	80.4	78.9	80.4
10°	82.0	79.6	82.1	79.8	82.2
12.5°	84.7	81.7	85.1	81.8	85.1
15°	87.7	84.4	88.1	84.4	88.3
17.5°	90.0	86.8	90.4	86.8	90.5
20°	92.1	89.5	92.6	89.5	92.8
22.5°	94.3	92.5	94.9	92.5	95.5
25°	97.3	96.0	98.0	96.2	98.3
27.5°	100.8	99.8	101.4	100.1	101.8
30°	104.8	104.4	105.3	104.6	105.7
32.5°	109.4	110.0	110.0	110.0	110.4
35°	115.9	116.5	116.5	116.7	116.8
37.5°	122.2	123.2	123.2	123.4	123.4
40°	128.8	130.1	130.1	130.1	130.3
42.5°	136.2	137.5	137.7	137.1	137.5
45°	144.3	144.8	145.4	145.1	145.7
47.5°	153.1	153.6	154.0	153.6	154.7
50°	163.5	163.4	164.5	163.4	164.9
52.5°	174.3	175.2	175.8	174.8	175.8
55°	186.6	186.3	188.5	187.0	188.5
57.5°	200.0	200.0	202.2	200.8	202.5
60°	215.8	214.5	217.7	215.4	217.7
62.5°	231.9	229.7	233.2	231.2	234.2
65°	250.5	247.2	250.5	248.0	250.6
67.5°	269.2	265.5	266.6	265.3	266.8
70°	293.3	292.8	291.5	295.2	292.1
72.5°	267.8	273.5	268.9	277.9	271.8
75°	164.6	175.1	181.0	190.1	188.6
77.5°	39.0	34.6	38.2	34.3	38.6
80°	14.4	13.1	13.7	12.0	13.3
82.5°	9.8	8.6	8.3	6.6	7.1
85°	6.3	5.1	4.7	4.0	4.3
87.5°	3.8	2.9	2.7	2.3	2.4
90°	1.1	0.4	0.8	0.2	0.7
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P227523

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

CANDELA DISTRIBUTION (continued):

	80°	82.5°	85°	87.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)