

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: P271682

Luminaire Tested: **IST-AF-XXX-LED-E1-SL2-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)
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-SL2-7027-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 557.7 lumens
Efficiency: N/A
Efficacy: 42.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U1 - G1

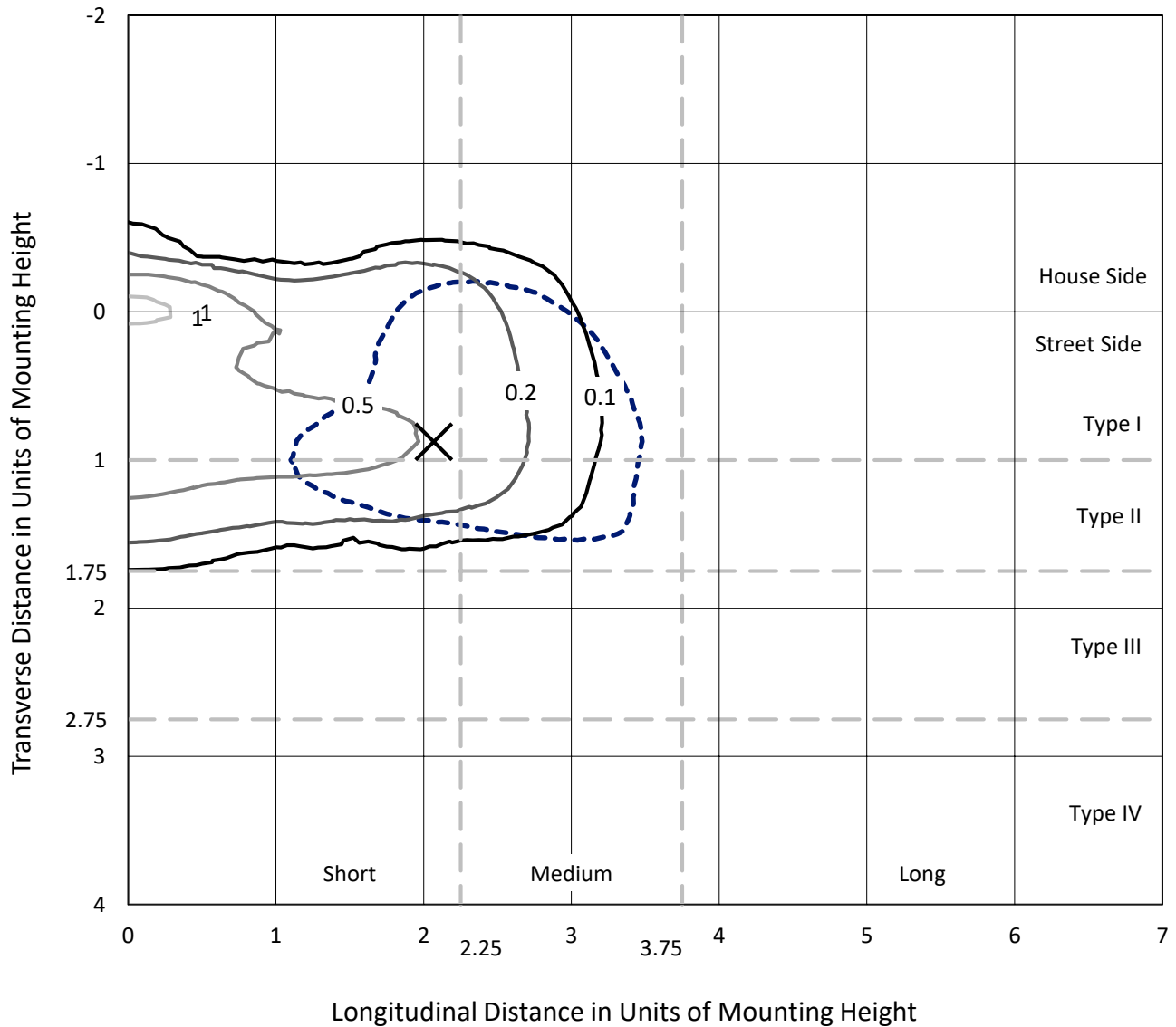
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

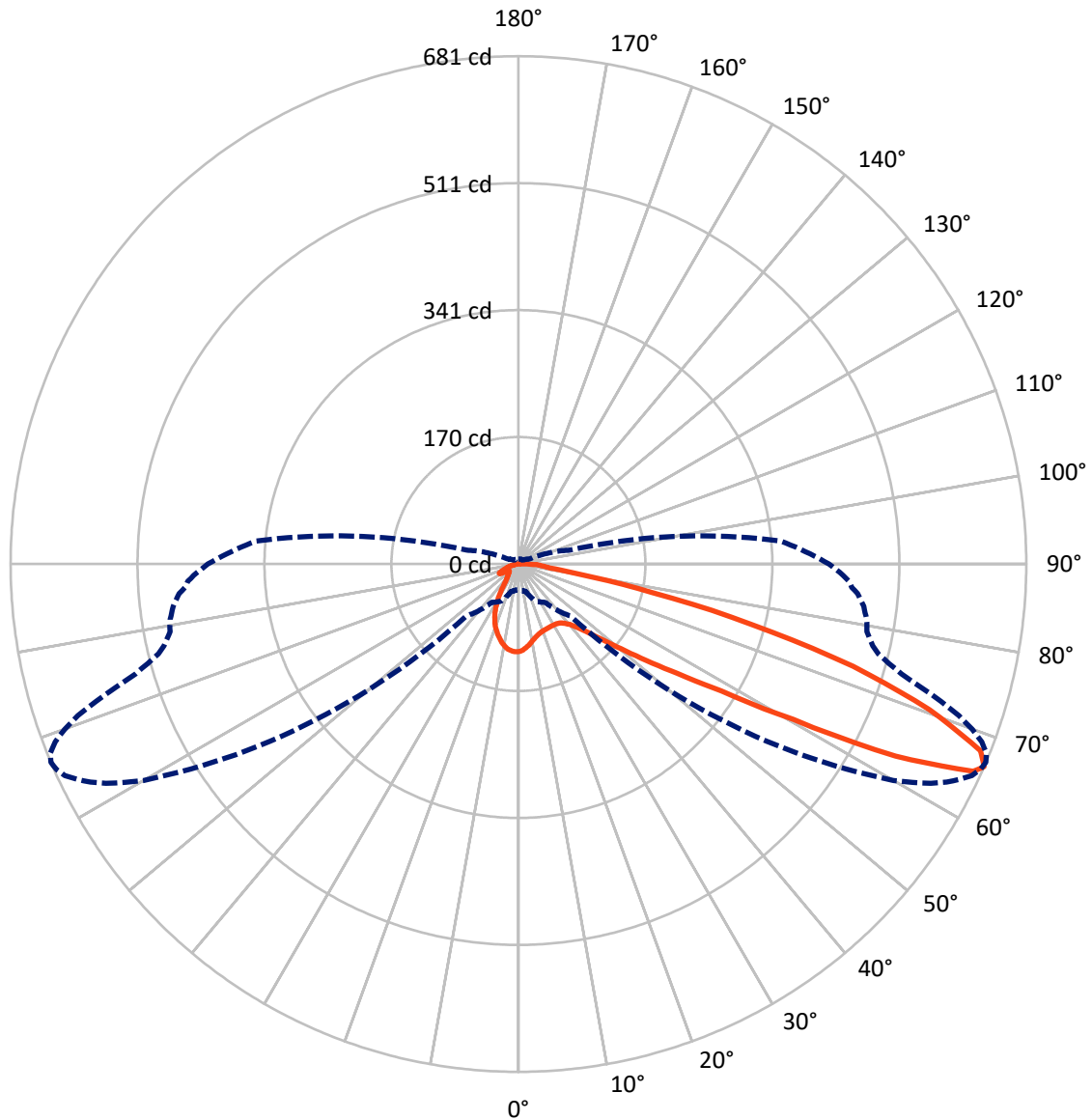


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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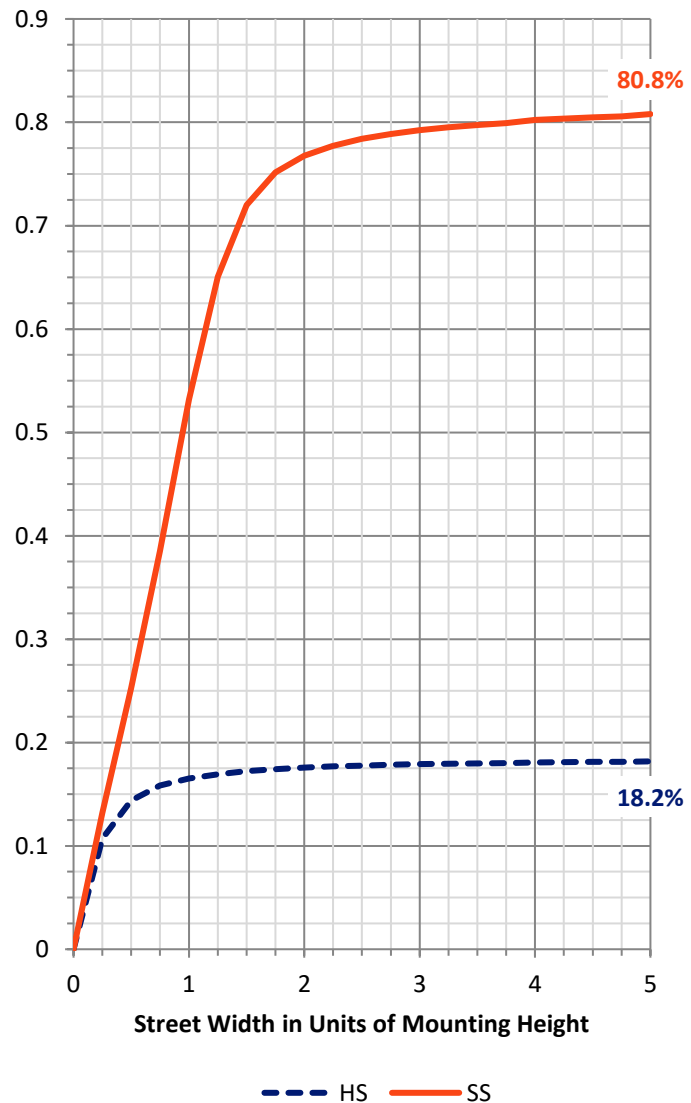
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	103.0	0.0	103.0
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	454.5	0.2	454.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	557.5	0.2	557.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	1.8
10°-20°	24.2	4.3
20°-30°	33.2	6.0
30°-40°	47.5	8.5
40°-50°	77.0	13.8
50°-60°	121.9	21.9
60°-70°	154.5	27.7
70°-80°	76.8	13.8
80°-90°	12.2	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°	557.5	100.0
0°-180°	557.7	100.0

Coefficient of Utilization



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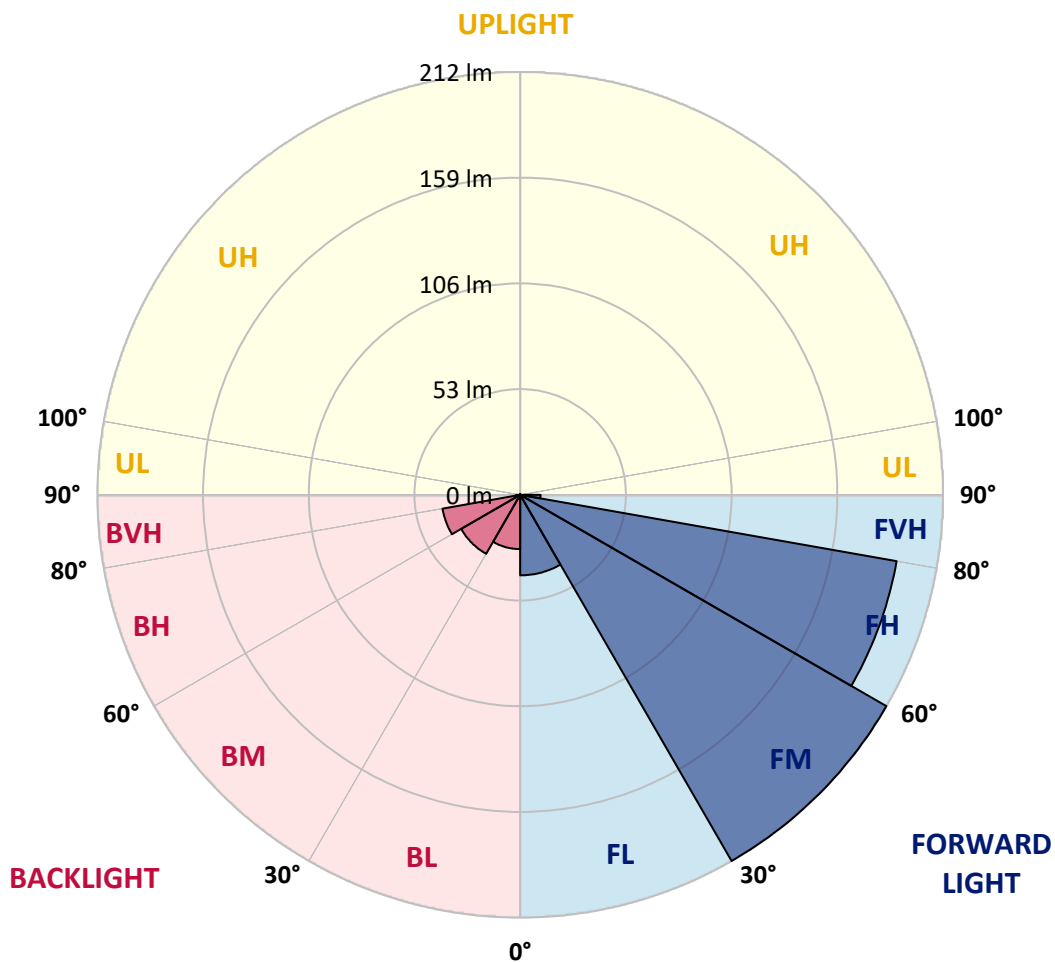
CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	40.4	7.2			
FM (30°-60°)	212.2	38.0			
FH (60°-80°)	191.8	34.4			G0/660
FVH (80°-90°)	10.2	1.8			G1/100
BL (0°-30°)	27.2	4.9	B0/110		
BM (30°-60°)	34.2	6.1	B0/220		
BH (60°-80°)	39.6	7.1	B0/110		G0/110
BVH (80°-90°)	2.0	0.4			G0/10
UL (90°-100°)	0.2	0.0		U1/10	
UH (100°-180°)	0.0	0.0		U1/10	

BUG Rating: B0-U1-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
0°	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4
2.5°	109.1	109.3	110.9	111.5	112.6	113.0	114.3	114.7	115.2	115.1	115.1
5°	99.4	100.0	100.7	102.2	103.8	105.7	108.2	110.0	110.3	110.9	111.0
7.5°	91.9	92.3	93.5	94.6	96.6	99.4	102.8	105.1	105.6	105.7	106.3
10°	86.6	86.9	87.9	89.3	91.6	94.2	97.8	100.3	101.1	101.4	101.9
12.5°	82.5	82.9	83.9	85.4	87.9	90.5	94.3	96.7	97.3	97.6	98.5
15°	79.9	80.2	81.0	82.7	85.0	87.7	91.4	94.2	94.6	95.0	95.7
17.5°	79.4	79.6	80.1	81.4	83.1	85.7	89.5	92.0	92.5	93.2	93.7
20°	81.4	81.6	81.7	81.8	82.8	84.5	88.2	90.8	91.4	91.9	92.6
22.5°	85.7	86.0	85.6	85.0	84.2	84.5	87.7	90.3	90.7	91.2	91.9
25°	93.2	93.1	91.8	90.8	88.1	86.0	87.9	90.1	90.5	91.0	91.8
27.5°	102.1	101.8	101.1	98.5	94.1	89.7	88.8	90.5	90.8	91.2	91.9
30°	111.7	111.7	111.1	108.3	102.7	95.2	91.1	91.4	91.6	92.0	92.4
32.5°	120.4	121.6	121.5	121.3	113.2	102.7	95.4	93.7	93.5	93.7	94.0
35°	130.3	130.5	132.9	134.0	127.5	113.5	101.8	98.2	97.1	97.2	97.1
37.5°	141.0	141.3	145.3	147.4	142.3	125.9	110.3	104.6	103.7	102.8	102.0
40°	156.7	157.9	160.1	162.3	159.8	142.7	121.5	113.7	111.4	111.2	109.9
42.5°	179.9	179.5	178.4	180.3	177.3	161.2	134.9	126.6	124.9	122.5	120.6
45°	202.7	203.6	199.3	200.2	200.3	183.0	154.4	142.8	141.8	139.1	137.1
47.5°	218.2	217.2	211.3	215.6	226.0	208.1	177.1	164.7	163.0	161.4	160.2
50°	219.1	218.2	214.4	222.0	244.4	253.0	208.6	194.3	191.6	189.0	188.3
52.5°	198.5	197.4	198.6	214.0	251.0	290.5	253.1	231.0	228.7	226.6	223.7
55°	162.1	163.5	169.4	191.5	240.8	317.1	340.5	287.5	277.8	277.7	270.5
57.5°	121.1	119.7	124.1	144.9	215.1	326.6	421.0	407.9	386.2	371.6	353.8
60°	81.7	82.0	86.1	96.7	149.7	316.3	474.9	520.7	513.1	510.1	505.3
62.5°	56.6	57.1	60.9	70.9	87.6	254.5	490.7	584.1	597.7	609.1	606.3
65°	39.6	39.7	43.5	58.9	65.6	130.7	455.9	592.4	612.7	632.2	649.7
66°	34.9	35.0	38.1	54.8	62.9	98.6	425.8	580.8	604.0	626.6	644.6
67.5°	29.9	30.5	32.9	46.6	60.4	76.1	351.7	546.0	570.3	595.1	619.0
70°	20.5	20.8	22.9	37.8	56.4	66.7	200.4	426.2	459.8	503.6	528.9
72.5°	14.6	14.6	14.7	23.4	58.0	66.4	105.3	280.5	327.5	365.9	393.4
75°	13.0	12.7	11.6	14.6	42.3	72.4	70.6	165.2	201.0	235.9	263.9
77.5°	11.7	11.0	10.4	11.2	20.9	68.3	63.3	94.6	112.8	139.0	160.5
80°	8.8	8.4	8.8	9.6	12.6	62.8	62.9	62.9	67.9	76.4	85.0
82.5°	5.9	5.4	6.1	7.9	9.4	47.3	65.0	55.5	54.7	54.3	54.9
85°	3.8	3.1	4.3	6.0	7.3	24.7	66.7	58.7	54.3	50.2	46.2
87.5°	1.3	1.4	2.2	3.4	4.9	10.7	58.5	51.7	48.8	43.7	38.9
90°	0.3	0.3	0.4	1.0	1.1	2.0	8.9	14.4	8.5	4.3	3.4
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-SL2-7027-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	63°
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-SL2-7027-XXB

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
0°	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4
2.5°	115.2	115.5	115.7	115.5	115.6	116.2	116.0	116.2	116.2	116.4	116.4
5°	111.4	111.7	112.4	112.3	113.0	113.2	113.5	113.7	114.3	114.4	114.9
7.5°	106.9	107.5	108.2	108.5	109.0	109.8	110.0	110.9	111.4	112.1	112.6
10°	102.7	103.6	104.2	104.6	105.4	105.8	106.8	107.3	108.2	109.1	109.8
12.5°	99.0	99.9	100.3	101.1	101.9	102.8	103.1	104.2	105.1	106.2	107.2
15°	96.4	97.2	97.8	98.5	99.4	100.1	100.8	101.9	102.9	104.0	104.9
17.5°	94.7	95.2	96.0	96.6	97.6	98.5	99.4	100.6	101.7	102.6	103.8
20°	93.4	94.1	94.8	95.5	96.5	97.6	98.4	99.7	100.9	102.0	103.1
22.5°	92.7	93.3	94.1	94.8	95.8	96.8	97.9	99.2	100.4	101.6	102.8
25°	92.5	93.1	93.6	94.4	95.5	96.6	97.6	98.8	100.0	101.1	102.7
27.5°	92.5	93.0	93.6	94.3	95.4	96.5	97.4	98.7	100.0	101.1	102.6
30°	93.0	93.2	94.0	94.5	95.4	96.5	97.3	98.7	99.8	101.1	102.6
32.5°	94.1	94.4	94.8	95.2	96.0	96.7	97.7	99.0	100.0	101.3	102.6
35°	96.8	96.6	96.8	97.1	97.6	98.4	99.2	100.3	101.1	102.2	103.6
37.5°	101.1	100.7	100.9	100.8	100.8	101.3	102.0	102.9	103.6	104.7	106.0
40°	109.2	108.0	107.7	106.8	106.4	106.9	107.4	107.4	108.4	109.9	110.4
42.5°	119.7	117.9	118.3	116.7	116.3	115.8	116.5	116.0	116.6	117.6	118.8
45°	136.0	134.5	132.8	130.3	131.0	129.1	128.5	128.6	128.6	129.0	130.4
47.5°	155.7	153.6	152.5	151.5	149.8	148.7	147.3	145.3	145.7	146.4	147.7
50°	184.3	183.6	181.5	178.5	178.1	176.6	176.2	174.3	173.6	173.6	173.5
52.5°	222.6	218.3	217.4	214.5	212.4	210.9	210.5	207.8	205.3	206.7	206.5
55°	269.3	265.7	261.0	258.6	256.8	253.2	252.3	249.0	247.6	246.7	244.6
57.5°	347.7	335.1	325.6	321.0	314.2	307.6	305.2	298.6	293.4	289.6	290.0
60°	484.5	462.0	435.4	423.6	396.0	391.9	373.0	368.3	357.0	349.4	345.1
62.5°	604.3	598.2	585.4	568.1	540.5	508.6	494.2	465.8	443.5	433.8	420.2
65°	661.5	670.1	673.7	670.5	659.4	640.0	622.9	594.9	557.7	536.6	510.2
66°	658.5	671.4	678.0	681.3	677.2	665.7	647.8	625.0	596.0	563.9	534.4
67.5°	637.2	649.7	658.5	668.9	668.9	665.3	658.0	642.6	622.3	594.2	567.8
70°	549.5	566.4	582.3	585.3	594.0	591.4	597.2	587.5	582.6	571.0	556.7
72.5°	428.1	442.2	455.8	469.5	467.2	464.2	463.6	465.6	455.8	459.2	455.6
75°	284.8	309.1	323.0	321.8	322.6	323.4	317.1	303.4	314.0	300.6	305.1
77.5°	173.0	184.3	188.1	184.0	178.4	171.5	160.2	153.5	144.1	144.8	138.5
80°	90.8	92.2	89.1	80.7	76.1	72.0	59.0	53.2	47.8	45.8	41.3
82.5°	52.0	48.6	44.9	42.1	36.7	33.0	27.8	24.7	21.3	18.2	17.2
85°	42.1	37.5	34.0	30.9	27.2	24.0	19.8	16.5	14.0	12.1	11.8
87.5°	34.8	31.6	28.0	25.1	21.5	18.1	14.0	10.9	8.6	7.0	6.5
90°	3.1	4.2	3.1	1.7	2.5	1.3	0.8	0.9	0.7	0.7	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



REPORT NUMBER: P271682

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-7027-XXB

CANDELA DISTRIBUTION (continued):

	64°	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°
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: P271682

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-7027-XXB

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4
2.5°	116.6	116.6	116.8	117.0	117.0	117.0	117.0	117.2	117.3	117.0	117.3
5°	115.3	115.6	116.0	116.2	116.3	116.6	116.8	117.0	117.2	117.2	117.4
7.5°	113.3	114.1	114.4	114.8	115.3	115.7	116.2	116.6	116.7	117.0	117.3
10°	110.9	111.7	112.6	113.3	113.8	114.7	115.4	115.9	116.6	116.7	117.3
12.5°	108.2	109.6	110.3	111.5	112.4	113.6	114.4	115.1	115.9	116.3	117.0
15°	106.4	107.5	108.9	110.0	111.4	112.8	113.7	114.7	115.9	116.8	117.7
17.5°	105.0	106.6	108.0	109.5	111.2	112.7	114.1	115.2	116.6	117.2	117.9
20°	104.6	106.3	107.8	109.3	111.1	113.2	114.7	115.9	117.4	118.3	118.9
22.5°	104.5	106.1	107.8	109.8	111.6	113.7	115.4	116.9	118.4	119.1	119.7
25°	104.2	106.0	107.9	110.0	112.1	114.4	116.2	117.7	119.0	119.8	120.4
27.5°	104.2	106.1	108.1	110.3	112.6	115.1	116.8	118.1	119.5	120.0	120.2
30°	104.1	106.1	108.0	110.4	112.8	115.4	117.4	118.7	119.7	120.1	120.0
32.5°	104.3	106.3	108.4	110.9	113.4	115.9	117.9	119.4	119.9	119.8	119.7
35°	105.1	107.0	109.4	111.9	114.4	116.8	118.8	119.7	120.2	120.0	119.7
37.5°	107.4	109.2	111.7	114.4	116.4	119.0	120.8	121.6	121.7	121.2	120.1
40°	112.1	113.9	116.2	119.0	121.5	123.3	125.0	125.9	125.3	124.4	123.3
42.5°	119.6	121.9	124.5	126.9	129.7	132.2	132.6	133.2	132.3	130.5	129.2
45°	131.5	132.9	136.4	138.1	141.8	143.0	144.0	144.2	142.4	140.9	138.6
47.5°	148.8	151.5	153.9	155.6	158.3	160.0	161.9	161.0	159.6	157.1	154.0
50°	176.0	177.8	180.8	183.7	186.6	187.7	187.7	186.9	185.9	181.4	177.5
52.5°	209.3	209.5	213.9	217.4	219.8	218.1	220.3	218.1	217.5	214.2	211.1
55°	247.9	246.3	251.6	254.8	256.9	259.1	258.7	258.4	256.3	252.5	248.8
57.5°	284.7	289.3	291.8	296.5	297.6	299.0	298.3	297.6	296.4	294.3	292.5
60°	337.7	340.6	343.0	343.9	346.9	347.5	349.5	346.0	346.9	344.5	339.2
62.5°	409.6	406.3	408.1	408.1	407.1	403.9	405.7	407.0	404.8	402.7	401.9
65°	490.4	479.5	469.2	467.4	462.6	461.5	460.2	456.9	455.4	451.8	449.1
66°	514.5	497.8	487.9	481.9	476.1	474.8	473.0	469.5	466.7	461.7	456.9
67.5°	541.6	520.0	505.2	496.7	489.6	484.8	481.1	476.1	471.6	464.2	456.6
70°	539.8	521.9	504.2	491.2	480.4	470.8	465.1	454.4	445.1	434.6	425.9
72.5°	453.6	450.4	440.1	432.8	419.7	414.6	399.5	392.6	379.8	366.1	361.9
75°	315.3	302.8	297.6	294.6	288.9	272.9	262.6	264.8	249.9	236.5	228.9
77.5°	137.8	140.3	125.8	119.3	114.3	105.6	97.6	92.0	88.8	86.8	77.3
80°	38.1	33.2	32.9	30.5	30.0	26.7	27.2	24.8	23.2	22.9	22.1
82.5°	16.7	16.3	15.8	15.6	15.3	15.0	14.6	14.6	14.0	13.6	13.7
85°	11.0	11.0	10.7	10.5	10.0	9.4	9.1	8.7	8.8	8.4	8.4
87.5°	6.5	6.3	6.2	5.9	5.7	5.3	5.4	4.9	4.9	4.9	4.5
90°	0.9	1.0	1.3	1.2	0.9	1.5	1.3	1.2	1.3	1.0	1.0
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: P271682
 CATALOG NUMBER: IST-AF-XXX-LED-E1-SL2-7027-XXB

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	
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	66°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												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: P271682
 NUMBER: IST-AF-XXX-LED-E1-SL2-7027-XXB

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	110°	86°
117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	117.4	110°	0.0
117.6	117.8	117.8	117.8	117.9	117.8	117.9	117.8	117.4	117.3	117.2	112.5°	0.0
117.8	118.0	118.1	118.3	118.0	118.3	117.9	116.6	115.1	113.4	112.0	115°	0.0
117.9	118.3	118.6	118.6	118.7	118.5	117.2	114.4	110.9	107.3	104.6	117.5°	0.0
117.8	118.4	118.7	118.8	118.8	118.4	115.4	110.7	105.3	100.0	94.5	120°	0.0
117.6	118.0	118.5	118.5	118.6	117.4	112.6	106.0	98.4	90.3	83.0	122.5°	0.0
118.0	118.6	118.6	118.6	118.5	116.5	109.9	100.1	89.9	79.1	68.2	125°	0.0
118.8	119.0	118.8	118.8	118.6	115.5	106.7	94.3	80.9	66.6	51.5	127.5°	0.0
119.5	119.7	119.6	119.1	118.8	114.5	103.5	88.2	70.2	51.5	36.4	130°	0.0
120.1	120.4	119.9	119.3	118.7	113.2	99.4	80.5	58.1	35.2	24.2	132.5°	0.0
120.2	120.5	119.7	118.8	117.9	111.2	94.7	72.1	44.7	22.7	18.9	135°	0.0
120.1	120.0	118.8	117.6	116.6	108.8	89.4	61.8	29.8	17.2	16.3	137.5°	0.0
119.6	118.8	117.8	116.5	115.2	106.1	84.1	50.3	18.9	14.9	14.9	140°	0.0
118.8	117.9	116.7	114.9	113.5	103.5	78.2	38.6	15.1	13.7	13.9	142.5°	0.0
118.4	117.6	115.7	113.8	112.0	101.1	71.8	26.1	13.6	12.9	13.0	145°	0.0
119.0	117.7	115.8	113.7	111.4	99.2	65.0	18.1	12.8	12.1	12.4	147.5°	0.0
121.3	120.0	117.8	115.2	112.6	97.9	58.1	15.0	12.0	11.5	11.5	150°	0.0
126.8	125.0	122.1	118.8	116.0	98.7	51.8	13.7	11.5	10.9	10.9	152.5°	0.0
135.6	133.5	130.1	126.4	122.6	102.4	44.6	13.1	11.0	10.2	10.0	155°	0.0
150.6	148.0	143.4	139.1	134.5	108.8	37.5	12.8	10.6	9.8	9.4	157.5°	0.0
174.5	170.3	164.9	159.3	153.7	120.5	31.8	12.5	10.2	9.4	9.2	160°	0.0
204.8	202.1	195.4	188.0	181.4	143.5	28.5	12.3	10.0	9.1	8.8	162.5°	0.0
243.8	239.2	234.0	227.3	219.4	173.7	28.2	12.1	9.7	8.7	8.5	165°	0.0
284.9	283.1	274.2	270.0	261.4	213.8	34.2	12.4	9.5	8.4	8.3	167.5°	0.0
331.7	332.4	324.0	319.3	312.3	264.6	54.5	12.8	9.5	8.3	7.9	170°	0.0
392.9	394.0	384.1	378.7	372.7	321.4	85.7	13.7	9.8	7.9	7.7	172.5°	0.0
443.1	437.3	430.8	421.5	413.8	353.2	82.6	15.2	10.2	7.7	7.5	175°	0.0
448.3	444.1	436.0	426.0	416.6	353.3	72.0	15.7	10.2	7.6	7.4	177.5°	0.0
447.6	440.2	431.1	422.6	413.4	344.3	55.8	16.3	10.5	7.5	7.2	180°	0.0
416.6	406.1	397.3	385.5	375.9	308.1	34.2	16.3	10.2	7.0	6.7		
343.5	338.2	327.6	318.2	308.2	249.4	23.4	14.6	8.9	6.3	6.4		
222.2	216.1	205.4	200.1	194.4	159.6	18.2	11.8	7.6	5.6	5.9		
74.2	71.8	67.8	70.0	66.7	62.2	13.5	8.9	6.1	4.9	5.2		
22.2	21.6	22.5	21.1	22.4	19.0	8.8	6.3	4.7	4.2	4.6		
13.1	12.9	12.9	12.9	12.7	11.8	5.7	4.3	3.6	3.5	3.9		
8.1	7.8	7.9	7.8	8.1	7.2	4.0	3.1	2.7	2.5	3.1		
4.6	4.6	4.7	4.5	4.6	4.4	2.8	2.0	1.8	1.7	2.2		
1.1	1.1	0.9	0.8	0.9	1.2	0.8	0.6	0.4	0.4	0.8		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'271682
 IST-AF-XXX-LED-E1-SL2-7027-XXB

REPORT NUMBER: P271682
 CATALOG NUMBER: IST-AF-XX

TION (continued):

CANDELA DISTRIBUTION (con

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°		155°	165°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	117.4	117.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	116.6	116.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	110.0	108.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	100.4	98.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	89.5	86.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	75.5	70.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	59.5	52.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	41.0	35.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	28.7	26.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	22.2	22.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	18.4	19.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	16.3	17.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	14.9	15.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	14.0	14.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	12.8	13.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	11.9	11.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	11.2	11.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	10.4	10.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	9.6	9.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	9.3	9.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	8.8	8.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	8.4	8.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	8.2	8.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	7.8	7.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	7.6	7.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	7.5	7.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	7.3	7.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	7.2	7.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	7.2	7.0
										70°	6.7	6.6
										72.5°	6.3	6.2
										75°	5.7	5.6
										77.5°	5.1	5.0
										80°	4.3	4.3
										82.5°	3.8	3.5
										85°	3.0	2.8
										87.5°	2.0	1.9
										90°	0.4	0.6
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P271682

CATALOG NUMBER: IST-AF-XXX-LED-E1-5

X-LED-E1-SL2-7027-XXB

tinued):

175°	180°
117.4	117.4
115.4	116.2
107.9	107.5
97.1	97.1
83.9	84.1
67.0	66.0
48.0	48.4
33.5	33.3
26.8	26.9
23.0	23.0
20.4	20.4
18.1	18.1
16.3	16.5
14.8	14.9
13.4	13.5
12.0	12.0
11.2	11.3
10.6	10.6
10.0	10.0
9.5	9.7
9.1	9.2
8.5	8.6
8.1	8.1
7.6	7.6
7.3	7.2
7.1	6.8
6.7	6.6
6.6	6.6
6.5	6.4
6.2	6.1
5.7	5.5
5.2	5.0
4.9	4.5
4.0	3.9
3.0	2.8
1.8	1.8
0.4	0.4
0.0	0.0
0.0	0.0
0.0	0.0
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 (continued):

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

SL2-7027-XXB

180°
0.0
0.0
0.0
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0.0
0.0
0.0
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(END OF REPORT)