

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: P271683

Luminaire Tested: **IST-AF-XXX-LED-E1-SL3-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)
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-SL3-7027-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCUED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 546.6 lumens
Efficiency: N/A
Efficacy: 42.0 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 - 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

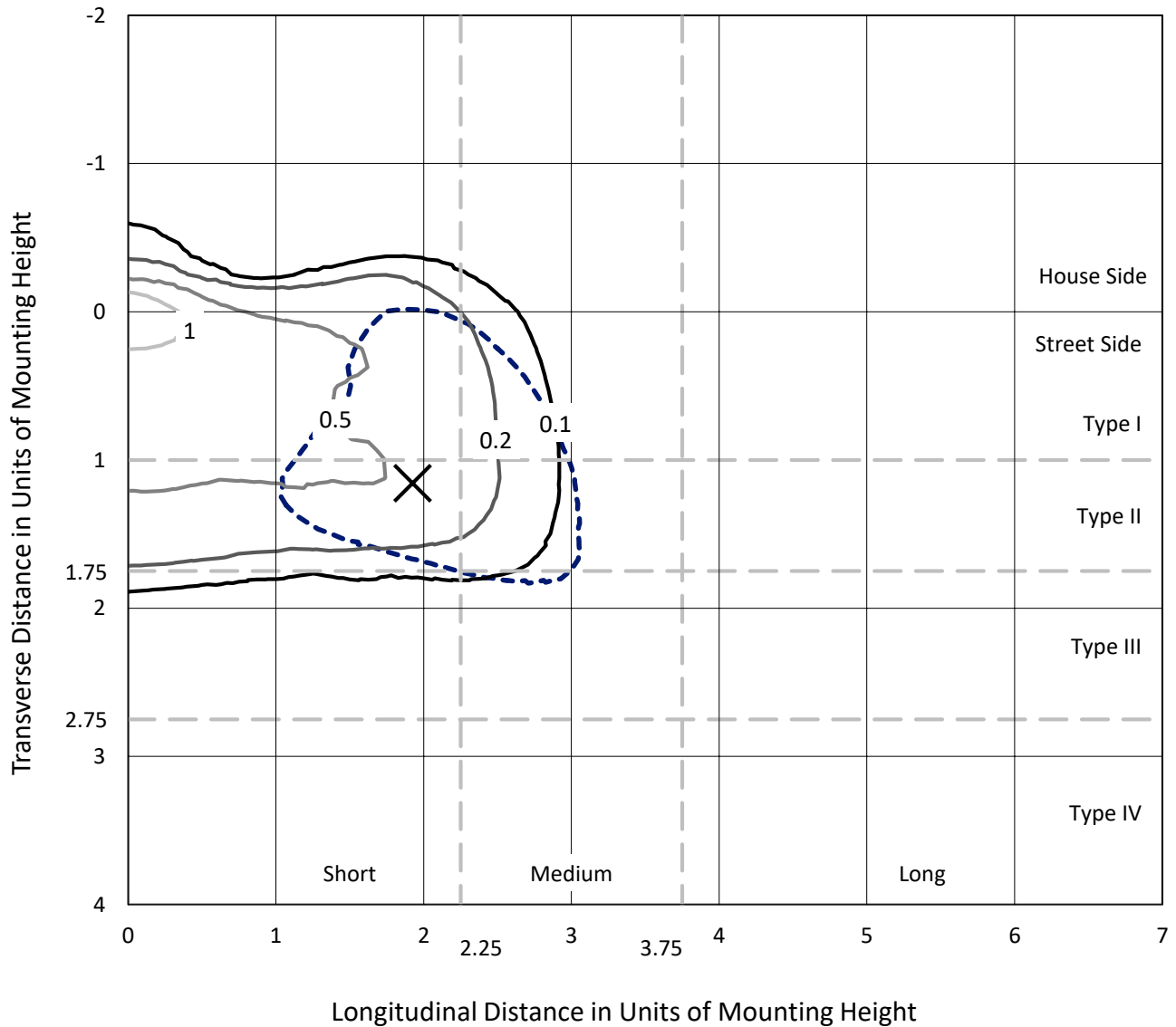


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

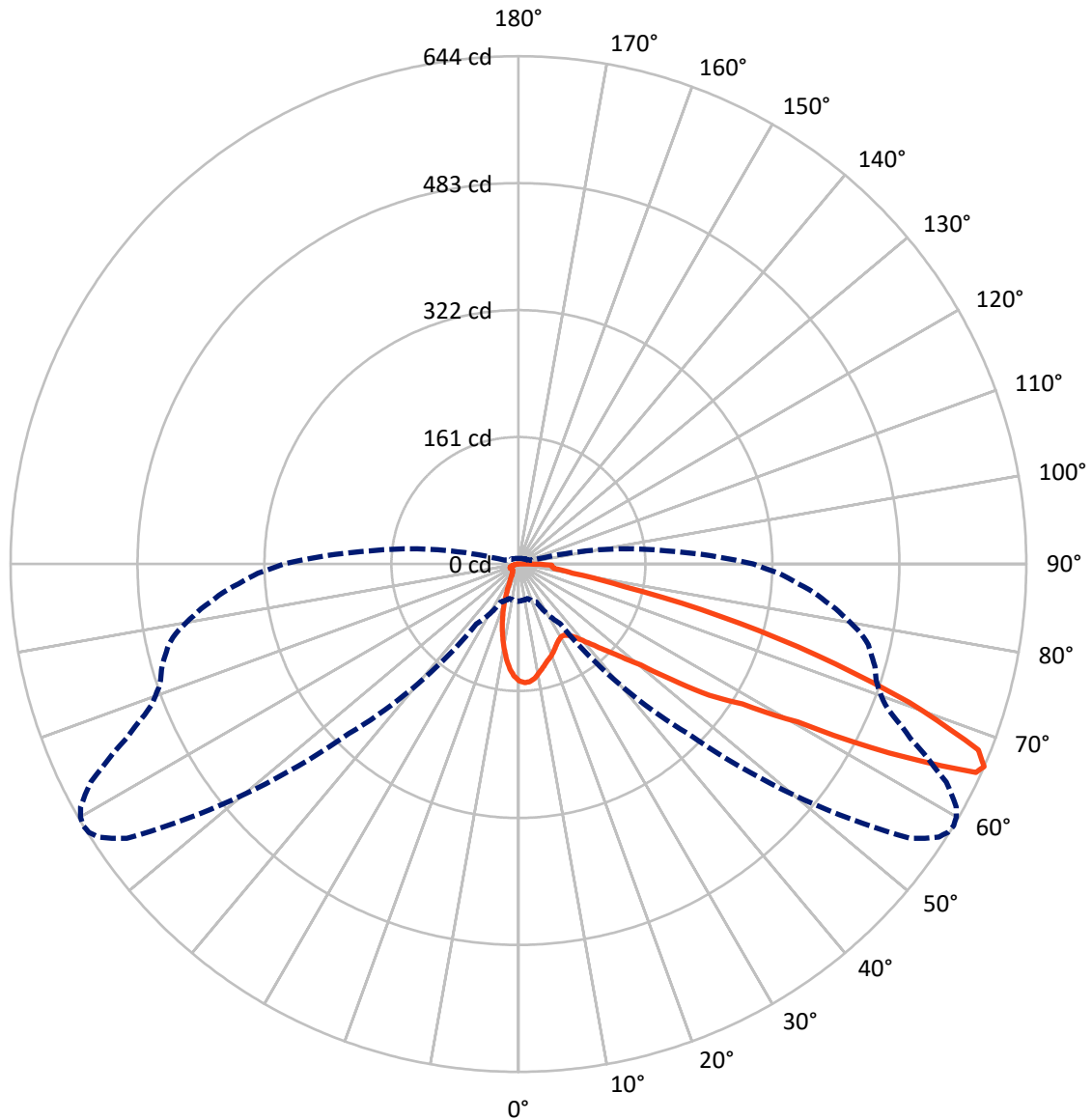


Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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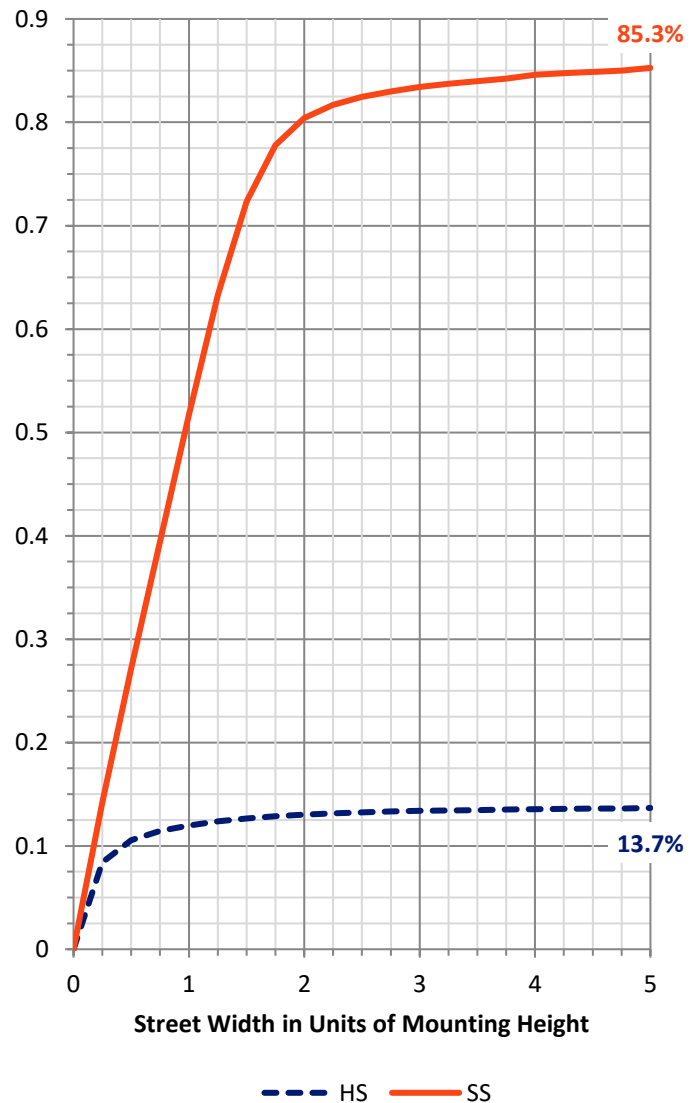
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	75.8	0.0	75.9
	% Fixture	13.9	0.0	13.9
Street Side	Lumens	470.5	0.2	470.7
	% Fixture	86.1	0.0	86.1
Total	Lumens	546.4	0.2	546.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	2.3
10°-20°	26.7	4.9
20°-30°	33.5	6.1
30°-40°	45.9	8.4
40°-50°	73.8	13.5
50°-60°	128.3	23.5
60°-70°	155.9	28.5
70°-80°	58.1	10.6
80°-90°	11.4	2.1
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°	546.4	100.0
0°-180°	546.6	100.0



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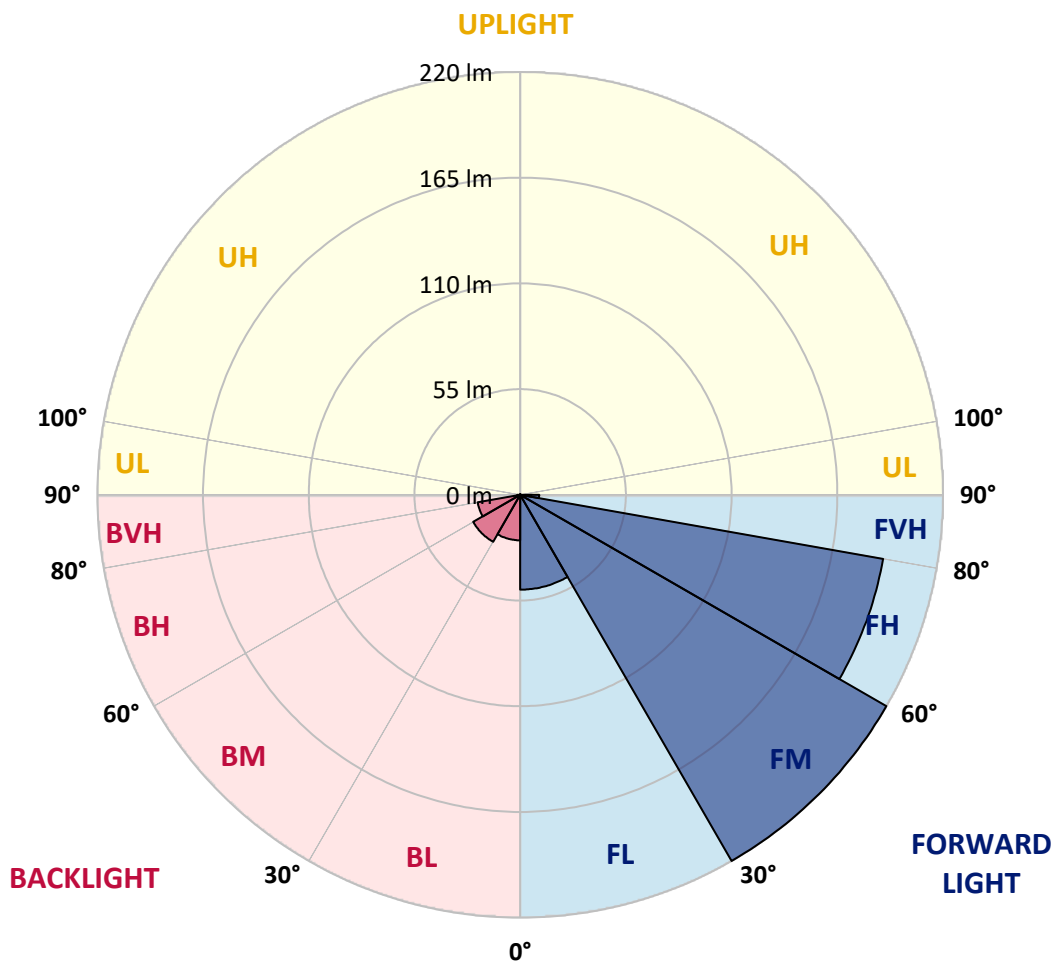
CATALOG NUMBER: IST-AF-XXX-LED-E1-SL3-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	49.3	9.0			
FM	(30°-60°)	219.8	40.2			
FH	(60°-80°)	191.6	35.0			G0/660
FVH	(80°-90°)	9.9	1.8			G0/10
BL	(0°-30°)	23.6	4.3	B0/110		
BM	(30°-60°)	28.2	5.2	B0/220		
BH	(60°-80°)	22.4	4.1	B0/110		G0/110
BVH	(80°-90°)	1.6	0.3			G0/10
UL	(90°-100°)	0.2	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B0-U1-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
2.5°	152.4	151.8	152.7	152.4	152.7	151.5	151.2	150.9	151.1	150.8	150.8
5°	148.7	148.5	149.6	150.2	150.6	150.5	150.5	150.5	150.5	149.8	149.9
7.5°	138.2	138.0	139.6	140.7	143.0	144.4	146.3	146.4	146.5	146.3	146.9
10°	127.0	127.5	128.7	130.5	134.2	136.4	139.9	140.6	140.8	140.9	140.9
12.5°	116.2	115.7	117.4	120.7	125.7	129.2	133.6	133.8	134.4	134.9	135.6
15°	106.7	107.3	108.7	112.1	117.2	122.2	128.0	128.3	129.2	129.6	130.4
17.5°	100.1	100.1	101.7	104.9	109.8	116.0	123.2	123.9	124.5	125.2	126.1
20°	96.8	96.8	97.5	99.4	103.6	109.6	118.4	119.0	120.2	121.0	122.3
22.5°	96.6	96.6	96.5	96.8	99.4	104.0	113.2	114.2	115.2	116.3	117.4
25°	99.4	99.5	98.5	97.8	98.2	100.3	108.2	108.8	110.7	111.5	112.7
27.5°	103.1	103.6	102.8	101.8	100.3	98.8	104.0	104.9	106.2	107.4	109.1
30°	108.7	108.7	108.5	107.9	104.9	100.5	102.9	103.5	104.6	105.6	106.9
32.5°	114.6	115.3	115.8	115.5	112.5	104.9	104.7	105.1	106.1	106.7	107.5
35°	122.3	122.7	124.7	124.7	121.6	112.8	109.5	110.0	110.4	110.7	111.4
37.5°	130.8	132.1	134.8	136.5	131.8	122.8	117.3	117.3	117.6	117.8	118.1
40°	140.7	142.3	146.2	149.4	146.4	135.0	127.5	128.3	128.1	127.6	128.6
42.5°	152.0	153.9	158.6	161.7	159.9	149.8	141.3	140.8	141.6	140.6	140.9
45°	165.3	166.6	171.6	174.7	176.2	168.2	159.3	158.3	158.3	156.1	157.0
47.5°	177.1	177.5	182.3	187.8	192.5	192.7	180.3	179.6	178.0	176.6	176.2
50°	188.3	189.5	192.5	198.5	208.2	216.6	209.0	207.0	205.3	200.0	201.5
52.5°	207.4	209.8	211.8	215.4	226.8	243.9	253.1	249.9	249.5	244.7	243.6
55°	211.0	211.2	217.6	238.9	265.7	277.9	295.8	295.7	297.1	295.5	294.1
57.5°	194.0	192.1	202.7	230.8	284.7	347.6	342.1	342.6	340.9	336.2	334.9
60°	151.2	152.8	164.3	200.1	271.0	392.4	428.4	417.7	425.3	413.4	406.9
62.5°	85.1	83.1	90.9	128.5	222.3	394.7	545.9	547.1	550.8	544.1	528.3
65°	54.9	54.1	53.3	65.0	133.3	345.3	610.9	625.4	634.0	637.5	637.8
66°	47.3	46.5	45.5	53.2	92.9	304.3	606.7	622.2	635.9	642.5	644.4
67.5°	40.2	39.2	39.0	44.1	64.6	236.1	566.8	591.1	603.2	620.1	629.4
70°	30.6	30.1	31.7	38.1	49.6	111.1	451.7	483.3	504.2	517.4	526.0
72.5°	25.7	25.5	27.7	34.8	47.0	63.0	316.1	350.1	372.0	384.7	396.3
75°	20.1	20.3	23.1	33.1	46.7	54.9	183.7	216.0	228.8	248.7	263.9
77.5°	15.1	14.9	17.1	26.8	45.5	55.7	95.4	108.9	122.9	132.9	136.7
80°	10.6	10.7	12.3	18.4	35.6	57.2	59.5	62.6	65.6	68.8	69.5
82.5°	7.1	7.2	9.1	12.7	24.6	54.7	55.5	54.2	51.9	49.0	45.9
85°	4.3	4.4	6.5	8.5	19.1	49.5	57.5	53.7	50.2	46.5	42.7
87.5°	2.2	2.4	3.9	5.0	11.3	24.3	59.8	57.0	52.4	46.6	42.4
90°	0.6	0.6	0.9	1.3	2.2	4.9	15.1	13.6	6.7	12.8	6.4
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-SL3-7027-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
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-SL3-7027-XXB

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
2.5°	150.7	150.9	150.7	150.5	150.7	150.5	150.5	150.4	150.5	150.3	150.2
5°	149.9	150.2	150.2	149.7	149.6	149.8	149.4	149.6	149.4	149.3	148.8
7.5°	146.4	146.4	146.5	146.2	146.4	146.4	146.3	146.3	146.2	146.2	145.9
10°	141.3	141.8	142.0	141.8	141.8	142.5	142.2	142.4	142.4	142.2	142.3
12.5°	135.9	136.5	136.9	136.9	137.4	138.1	138.0	138.2	138.9	138.9	138.6
15°	131.0	131.5	132.1	132.7	133.3	133.8	134.4	134.9	135.4	135.4	135.7
17.5°	127.0	127.8	128.5	128.7	129.7	130.7	131.0	131.8	132.3	132.6	133.1
20°	123.1	124.1	125.0	125.9	126.6	127.8	128.4	128.9	129.7	130.3	131.0
22.5°	118.6	120.0	121.2	122.2	123.6	124.7	125.9	126.6	127.6	128.4	129.0
25°	114.4	116.2	117.8	118.8	120.7	122.2	123.6	124.9	126.1	127.2	128.1
27.5°	110.3	112.6	114.4	116.2	118.1	120.5	121.8	124.0	125.7	127.1	128.1
30°	108.4	110.3	112.3	114.2	116.2	119.0	121.5	124.1	126.2	128.1	129.6
32.5°	108.9	110.5	112.3	113.8	116.2	119.3	121.7	124.8	127.9	130.4	132.3
35°	112.2	113.7	114.9	116.3	118.3	120.6	123.2	126.5	130.4	133.8	136.3
37.5°	119.3	119.7	120.8	121.9	123.0	125.2	127.6	130.4	134.8	138.4	141.8
40°	128.0	129.1	130.2	130.6	131.8	133.3	134.4	137.4	141.2	145.9	149.7
42.5°	140.9	141.3	141.6	141.8	142.1	143.1	144.8	147.4	151.3	155.4	159.6
45°	155.6	156.0	156.6	156.8	156.1	156.8	158.6	159.7	163.5	167.4	172.8
47.5°	175.7	174.2	173.5	174.5	173.9	175.2	176.0	176.8	181.3	185.9	190.5
50°	201.6	200.7	199.5	199.6	200.5	199.7	200.2	202.9	204.5	208.4	214.4
52.5°	243.0	240.2	235.7	233.8	234.9	234.2	234.5	235.1	234.1	237.6	242.8
55°	294.1	290.4	287.5	285.8	279.6	279.1	275.0	273.5	270.2	273.7	272.5
57.5°	330.6	328.2	326.7	321.8	318.9	313.1	311.5	309.5	305.0	307.2	309.3
60°	400.9	392.6	389.8	380.9	378.0	372.5	365.6	362.2	359.8	361.9	360.7
62.5°	518.4	506.8	504.6	483.6	478.5	466.0	452.9	451.2	443.9	439.2	438.1
65°	633.1	616.5	604.0	581.2	565.8	547.9	527.9	513.3	498.4	490.8	480.9
66°	641.7	635.1	622.5	609.2	586.8	567.2	544.6	528.7	511.9	498.6	490.1
67.5°	627.2	623.6	619.2	610.1	596.0	577.8	556.3	536.2	516.0	500.4	486.7
70°	530.1	534.0	539.1	536.6	528.7	521.5	502.5	491.4	476.0	455.6	447.3
72.5°	400.1	410.4	406.9	393.6	387.5	382.6	375.7	368.1	346.3	343.7	333.9
75°	257.5	254.0	256.3	240.2	229.2	224.7	208.4	201.6	185.2	174.5	166.5
77.5°	135.6	129.0	123.8	109.6	99.4	93.5	85.6	76.2	61.7	60.9	47.8
80°	62.9	57.9	53.1	48.1	43.3	36.7	31.8	26.1	23.0	19.8	18.3
82.5°	42.7	39.4	36.7	33.3	29.6	25.1	21.6	18.3	15.7	14.0	12.8
85°	38.6	35.2	32.0	27.8	24.0	20.2	16.5	13.7	11.2	9.7	8.9
87.5°	37.5	33.2	29.9	25.5	21.6	17.8	14.2	11.0	8.6	7.1	6.0
90°	4.9	5.1	3.8	3.5	1.4	2.0	1.4	0.9	0.9	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: P271683

CATALOG NUMBER: IST-AF-XXX-LED-E1-SL3-7027-XXB

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
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-SL3-7027-XXB

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5
2.5°	149.9	149.7	149.9	149.8	149.6	149.7	149.7	149.4	149.3	149.3	149.2
5°	148.7	148.5	148.7	148.6	148.1	148.0	148.0	147.7	147.4	147.1	147.1
7.5°	145.4	145.6	145.5	145.3	145.1	145.1	144.8	144.2	143.9	143.5	143.2
10°	141.8	141.8	141.9	141.8	141.4	141.3	140.9	140.7	140.8	139.9	139.1
12.5°	138.7	138.7	138.6	138.4	138.2	138.1	138.1	137.1	136.8	136.6	135.8
15°	135.6	135.8	135.8	135.8	135.5	135.5	134.9	134.4	134.4	133.6	132.8
17.5°	133.3	133.6	133.5	133.6	133.7	133.2	132.4	132.1	131.5	131.1	130.1
20°	131.3	131.5	131.5	131.5	131.3	131.0	130.3	129.6	129.3	128.5	127.2
22.5°	129.4	129.9	129.9	129.9	129.5	129.3	128.6	127.6	127.0	125.9	124.8
25°	128.6	129.2	128.9	129.1	128.6	128.1	127.2	126.4	125.3	124.1	122.9
27.5°	129.0	129.5	129.4	129.3	128.9	128.5	127.3	126.3	125.1	123.6	122.0
30°	130.4	131.5	131.1	130.7	130.6	129.6	128.5	127.1	125.9	124.1	122.2
32.5°	133.3	133.8	133.8	133.7	133.3	132.4	131.0	129.1	127.5	125.4	123.2
35°	138.0	138.5	138.4	138.4	137.9	136.6	134.7	132.9	130.8	128.5	126.2
37.5°	144.5	145.4	145.3	145.0	144.4	142.9	141.4	139.1	136.8	133.8	131.2
40°	152.7	154.1	155.5	155.1	154.0	152.6	151.3	148.7	146.3	142.9	140.0
42.5°	163.9	165.7	167.4	168.5	168.1	166.2	163.9	162.8	159.4	155.9	152.9
45°	178.0	182.0	183.4	184.8	184.8	183.7	183.2	181.0	177.4	172.8	170.0
47.5°	196.7	202.1	203.6	206.0	207.5	206.3	205.4	201.6	199.2	192.9	192.1
50°	219.4	224.8	229.1	231.9	231.5	232.6	230.4	228.3	225.0	219.8	218.0
52.5°	248.4	252.6	256.6	258.3	260.0	259.8	259.3	257.8	253.7	250.9	246.1
55°	278.1	281.7	286.4	289.2	291.5	291.1	289.2	285.8	286.4	280.5	277.8
57.5°	312.0	315.8	321.1	323.6	324.6	329.8	328.5	328.2	326.6	324.6	321.9
60°	370.2	371.3	375.6	382.0	390.1	388.6	390.7	391.9	392.9	388.2	387.9
62.5°	439.6	441.0	444.6	446.0	447.2	447.4	444.6	444.6	440.0	434.0	429.3
65°	477.4	474.8	472.1	470.8	467.7	465.0	460.9	455.4	447.6	438.4	430.0
66°	482.9	477.3	474.0	470.4	465.5	460.4	455.6	448.2	439.0	428.0	416.9
67.5°	477.7	469.9	462.3	457.1	450.2	441.0	432.5	423.9	415.3	400.0	389.8
70°	429.5	420.2	411.9	400.4	389.4	380.3	366.0	350.8	338.3	322.4	312.3
72.5°	319.0	308.1	297.2	280.9	265.1	262.8	244.6	226.7	217.2	204.4	194.0
75°	157.6	143.8	124.2	115.5	102.9	96.7	93.2	80.4	77.3	64.6	64.5
77.5°	44.5	38.2	34.0	29.6	27.8	26.4	21.8	20.9	19.0	18.7	17.4
80°	16.9	15.9	15.5	15.1	14.6	14.5	14.2	13.6	13.3	12.8	12.5
82.5°	12.1	11.8	11.0	10.8	10.5	10.0	9.9	9.4	9.3	8.7	8.5
85°	8.3	7.7	7.4	7.0	6.7	6.6	6.5	6.3	6.1	5.9	5.7
87.5°	5.5	5.1	4.6	4.4	4.3	4.4	4.5	4.3	4.3	4.1	4.0
90°	0.7	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9	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



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
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: P271683

REPORT NUMBER: P

NUMBER: IST-AF-XXX-LED-E1-SL3-7027-XXB

CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	110°	82°
148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	148.5	110°	0.0
149.0	148.7	148.8	148.5	148.4	148.6	148.7	148.7	148.4	147.0	145.2	112.5°	0.0
146.9	146.3	146.2	146.0	145.5	146.1	145.9	145.3	144.9	143.1	139.7	115°	0.0
142.8	142.4	142.0	141.8	141.4	141.3	141.2	140.8	139.9	136.6	130.8	117.5°	0.0
139.0	138.5	138.0	137.4	136.9	136.5	136.5	135.5	134.7	130.6	122.1	120°	0.0
135.1	134.4	134.2	133.7	132.7	132.3	131.7	130.7	129.7	124.8	113.5	122.5°	0.0
132.3	131.5	130.4	130.2	129.2	128.2	127.5	126.1	125.0	118.5	104.7	125°	0.0
129.3	128.6	127.5	126.8	125.7	124.5	123.2	121.6	120.8	112.6	96.0	127.5°	0.0
126.8	125.3	124.1	123.3	122.0	120.7	119.6	117.5	116.0	106.7	87.0	130°	0.0
123.8	122.6	121.2	120.0	118.1	116.7	115.3	113.2	111.4	100.7	77.8	132.5°	0.0
121.8	120.0	118.6	117.2	115.2	113.5	111.5	109.1	107.3	95.0	67.8	135°	0.0
120.6	118.9	117.0	115.3	112.8	110.9	108.8	106.3	103.9	90.4	58.3	137.5°	0.0
120.2	118.3	116.2	114.2	111.6	109.1	106.6	104.0	101.1	86.0	48.0	140°	0.0
121.2	118.8	116.6	114.1	111.1	108.3	105.7	102.5	99.4	82.1	37.9	142.5°	0.0
124.1	121.1	118.5	115.7	112.4	109.3	106.3	102.6	99.3	79.4	28.9	145°	0.0
128.4	125.7	122.6	119.8	116.0	112.6	109.1	105.2	101.1	78.3	21.9	147.5°	0.0
137.2	133.5	130.4	127.5	123.0	119.6	115.6	110.9	106.3	79.4	18.2	150°	0.0
149.5	144.9	142.0	139.5	133.8	130.2	125.7	120.1	115.1	82.3	16.1	152.5°	0.0
166.5	163.0	157.9	153.9	148.2	144.1	139.0	132.5	126.8	86.2	15.0	155°	0.0
187.7	183.2	178.1	174.0	167.9	160.7	155.4	147.5	141.0	92.5	14.6	157.5°	0.0
213.9	208.4	201.5	198.1	189.6	184.0	176.9	168.4	160.2	102.2	14.7	160°	0.0
242.1	236.3	231.0	224.4	216.7	210.3	203.6	194.7	184.3	120.6	15.8	162.5°	0.0
272.1	268.2	263.2	254.8	250.5	242.5	234.0	224.0	216.6	144.6	18.1	165°	0.0
315.7	311.5	310.9	302.5	296.2	289.0	282.2	274.1	265.2	187.2	23.9	167.5°	0.0
382.7	378.4	373.4	367.0	359.4	350.4	342.1	330.9	321.2	229.9	26.6	170°	0.0
422.5	414.4	405.6	395.7	384.7	373.4	362.4	348.3	333.9	232.4	24.0	172.5°	0.0
419.1	409.1	397.8	384.5	372.9	359.1	347.0	328.8	315.8	207.0	19.5	175°	0.0
406.7	393.0	382.4	370.1	355.7	343.2	330.6	312.6	297.8	189.8	17.9	177.5°	0.0
375.0	363.3	348.5	336.8	326.1	311.3	299.3	282.4	272.3	164.6	16.0	180°	0.0
299.7	283.5	271.1	261.9	249.8	236.4	225.8	211.7	202.6	109.0	13.8		
174.5	170.5	156.6	148.7	141.3	130.4	122.0	115.3	103.3	52.8	12.3		
53.8	50.0	49.6	42.1	44.5	38.1	37.0	33.7	33.7	20.3	9.6		
17.2	16.9	16.2	15.2	14.9	14.9	14.6	14.5	13.7	10.9	7.2		
12.1	11.9	11.7	11.4	11.2	11.3	11.0	10.8	10.6	7.8	5.7		
8.4	8.2	7.6	7.6	7.5	7.4	7.5	7.2	7.1	5.5	4.9		
5.7	5.6	5.5	5.4	5.4	5.3	5.2	4.9	4.9	3.9	3.3		
3.8	3.1	3.1	2.7	2.5	2.5	2.3	2.5	2.8	2.8	2.2		
0.9	0.8	0.9	0.9	0.7	0.8	0.8	0.6	0.6	0.9	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		
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		

'271683
 IST-AF-XXX-LED-E1-SL3-7027-XXB

REPORT NUMBER: P271683
 CATALOG NUMBER: IST-AF-XX

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	148.5	148.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	143.5	142.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	136.0	132.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	125.8	119.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	113.8	105.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	101.7	90.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	90.3	76.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	78.2	60.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	66.7	45.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	53.8	32.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	39.4	23.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	28.2	18.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	21.0	15.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	16.9	13.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	14.4	12.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	12.8	11.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	11.9	11.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	11.5	10.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	11.2	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	11.0	10.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	10.9	10.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	11.0	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	11.4	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	12.0	10.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	12.6	10.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	12.8	10.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	12.6	10.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66°	12.4	10.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	12.1	10.7
										70°	11.6	10.0
										72.5°	10.4	9.1
										75°	8.9	7.3
										77.5°	7.2	5.9
										80°	5.4	4.4
										82.5°	4.0	3.4
										85°	2.8	2.4
										87.5°	1.7	1.4
										90°	0.4	0.4
										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: P271683

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

X-LED-E1-SL3-7027-XXB

tinued):

135°	145°	155°	165°	175°	180°
148.5	148.5	148.5	148.5	148.5	148.5
141.3	141.3	139.1	138.8	137.4	138.1
129.4	128.0	124.1	123.4	121.8	121.5
115.1	111.1	108.1	104.7	101.6	103.1
98.4	91.6	85.1	80.7	78.9	78.3
82.4	70.4	62.3	53.6	50.7	51.7
63.2	49.6	38.4	33.6	30.6	30.1
44.5	31.8	26.7	25.4	24.8	24.8
30.1	24.3	22.3	21.6	21.6	21.8
23.0	20.3	19.5	19.7	19.9	20.0
19.0	18.1	17.6	18.1	18.9	19.0
16.3	16.2	16.3	17.0	17.7	17.8
14.5	14.6	15.0	15.7	16.3	16.3
12.9	13.5	13.7	14.0	14.5	14.6
11.9	12.5	12.4	12.7	12.8	12.9
11.4	11.7	11.4	11.6	11.6	11.8
10.9	11.0	10.6	10.6	10.8	10.8
10.4	10.3	9.9	10.0	10.3	10.4
9.9	9.7	9.4	9.7	10.2	10.2
9.4	9.3	9.2	9.5	10.0	10.2
9.3	9.2	8.9	9.5	10.0	10.2
9.3	9.2	8.9	9.4	9.9	10.0
9.4	9.3	8.9	9.3	9.6	9.7
9.4	9.3	8.7	8.9	9.2	9.3
9.4	9.2	8.5	8.6	8.6	8.7
9.3	8.9	8.3	8.3	8.2	8.2
9.3	8.5	7.8	7.7	7.5	7.5
9.3	8.4	7.7	7.5	7.3	7.3
9.1	8.4	7.6	7.3	7.1	7.1
8.4	7.9	7.2	6.8	6.6	6.6
7.5	7.3	6.6	6.5	6.2	6.1
6.4	6.5	6.1	6.0	5.7	5.6
5.4	5.5	5.4	5.3	5.1	5.0
4.3	4.6	4.4	4.4	4.5	4.3
3.2	3.8	3.5	3.8	3.9	3.6
2.2	2.7	2.7	2.8	2.9	2.7
1.4	1.8	1.7	1.8	1.8	1.7
0.3	0.6	0.3	0.4	0.4	0.3
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

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
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



İL3-7027-XXB

145°	155°	165°	175°	180°
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	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

(END OF REPORT)