

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: P226264

Luminaire Tested: **IST-AF-XXX-LED-E1-T2-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)
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-T2-XXB
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 679.7 lumens
Efficiency: N/A
Efficacy: 52.3 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

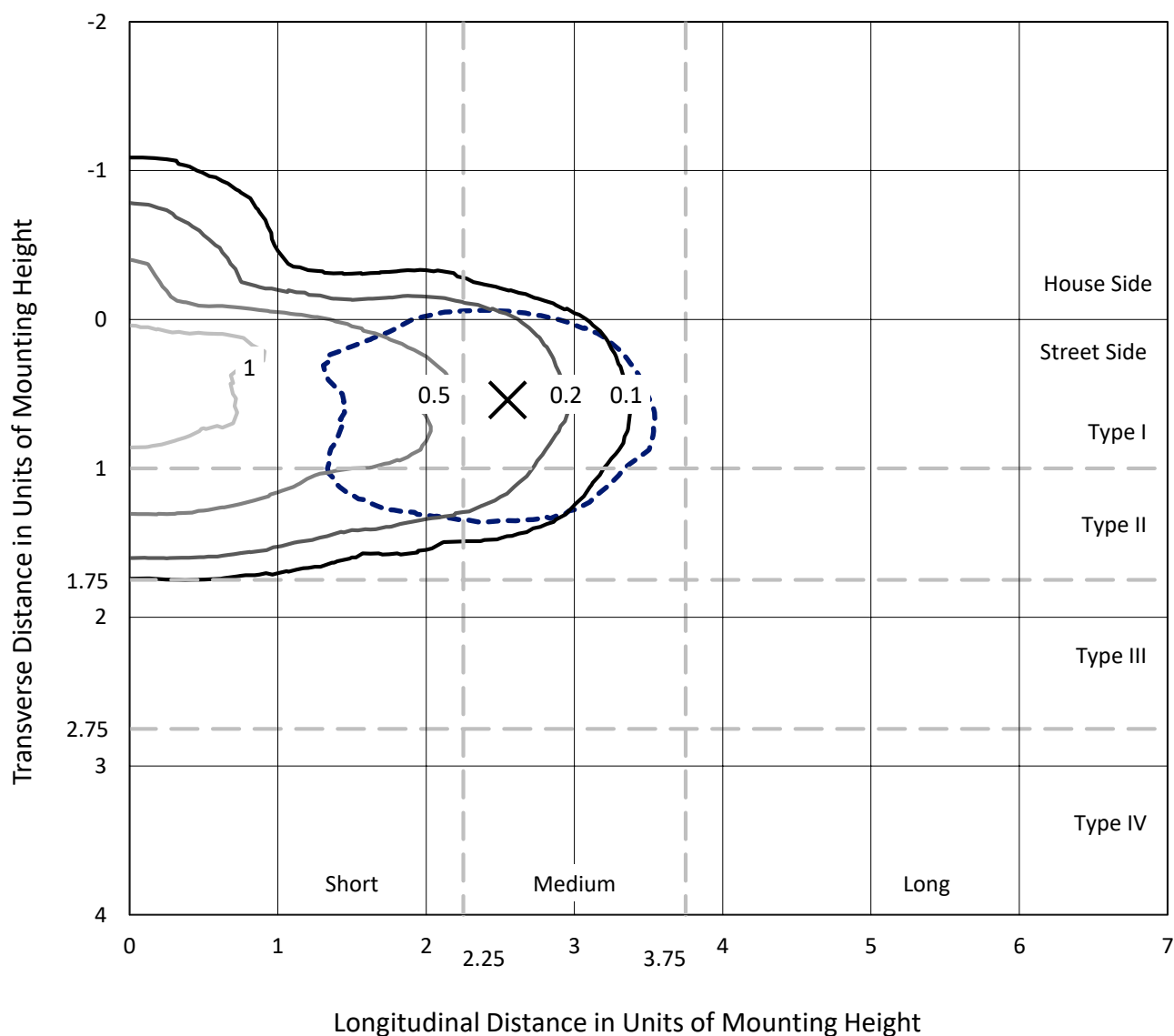


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

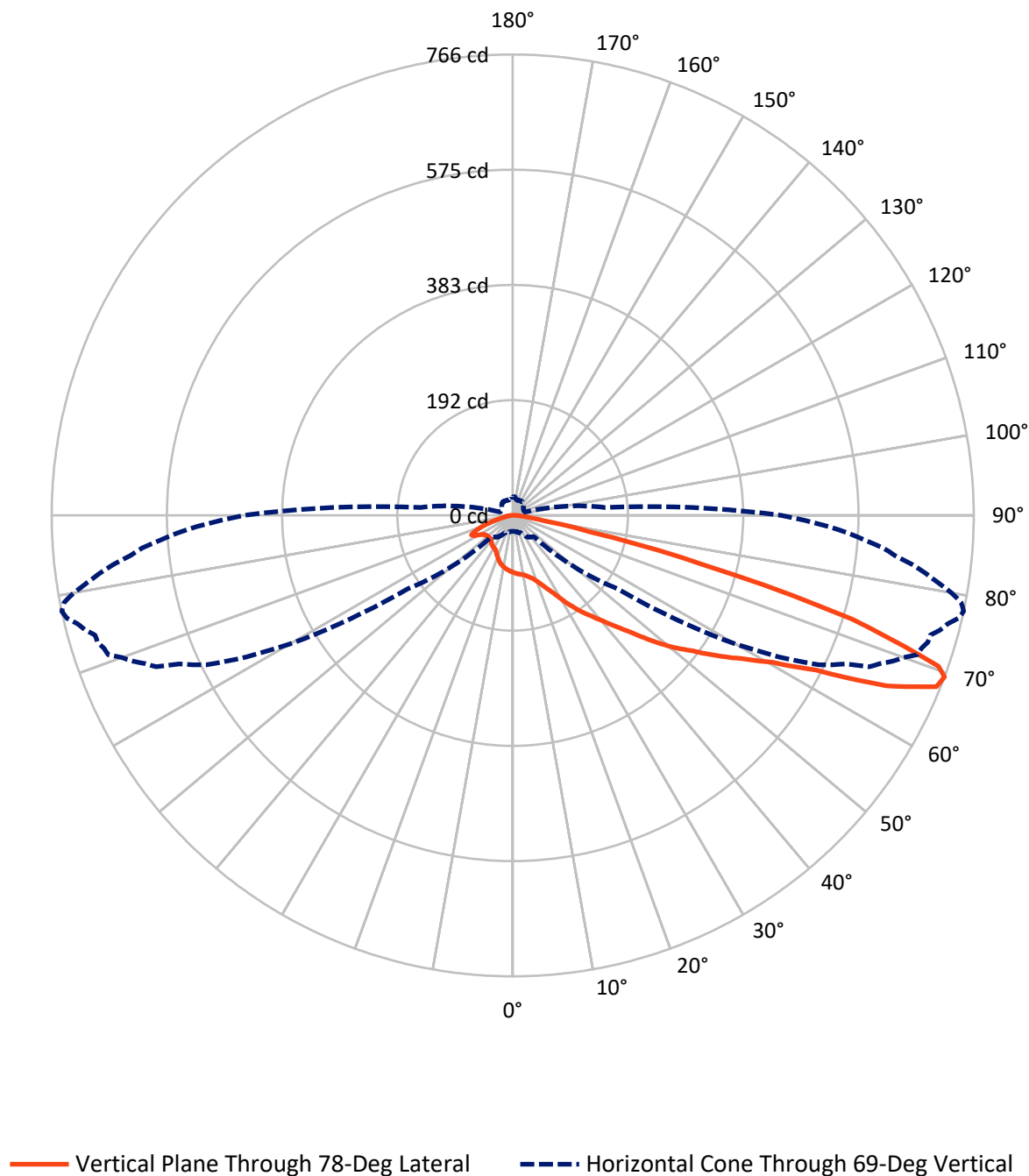


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



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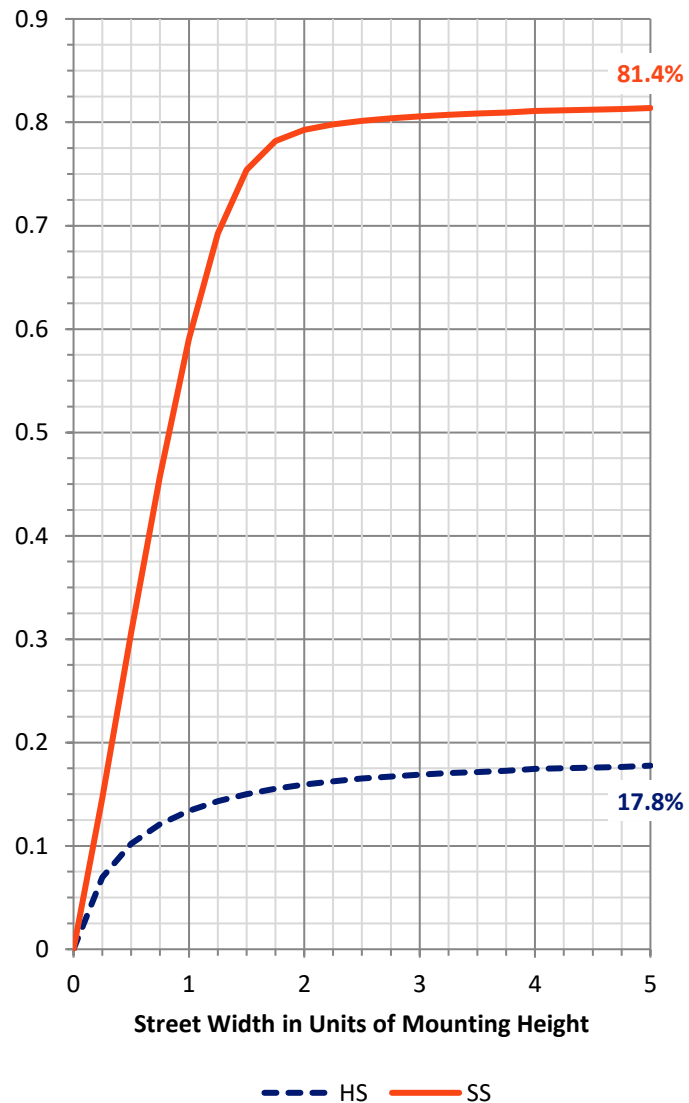
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	124.3	0.2	124.5
	% Fixture	18.3	0.0	18.3
Street Side	Lumens	555.1	0.1	555.2
	% Fixture	81.7	0.0	81.7
Total	Lumens	679.3	0.3	679.7
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	1.3
10°-20°	26.5	3.9
20°-30°	47.5	7.0
30°-40°	77.6	11.4
40°-50°	114.7	16.9
50°-60°	149.8	22.0
60°-70°	167.5	24.6
70°-80°	75.2	11.1
80°-90°	11.7	1.7
90°-100°	0.3	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°	679.3	99.9
0°-180°	679.7	100.0

Coefficient of Utilization



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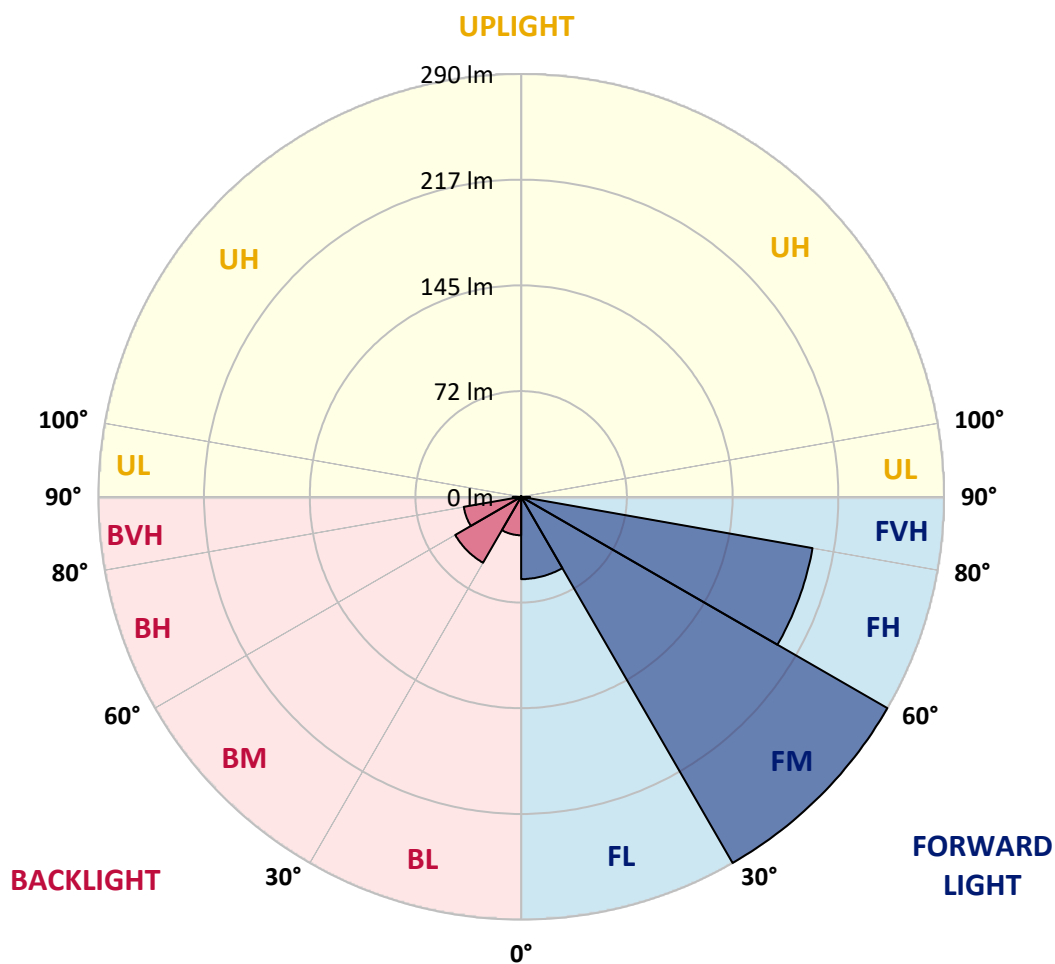
CATALOG NUMBER: IST-AF-XXX-LED-E1-T2-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	56.4	8.3			
FM	(30°-60°)	289.8	42.6			
FH	(60°-80°)	202.8	29.8			G0/660
FVH	(80°-90°)	6.0	0.9			G0/10
BL	(0°-30°)	26.4	3.9	B0/110		
BM	(30°-60°)	52.2	7.7	B0/220		
BH	(60°-80°)	39.9	5.9	B0/110		G0/110
BVH	(80°-90°)	5.7	0.8			G0/10
UL	(90°-100°)	0.3	0.1		U1/10	
UH	(100°-180°)	0.2	0.0		U1/10	

BUG Rating: B0-U1-G0

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	101.3	101.3	101.0	100.8	100.5	99.6	98.5	98.3	98.2	98.0	97.8
5°	108.6	107.8	108.0	107.5	106.5	105.1	102.9	101.8	101.3	101.2	100.8
7.5°	114.7	114.8	114.5	113.4	112.0	110.3	107.3	105.7	105.2	104.9	104.2
10°	119.0	118.7	118.5	118.3	117.1	115.7	112.0	109.9	109.6	108.7	107.9
12.5°	122.1	122.1	122.1	121.9	121.2	120.2	117.2	115.2	114.7	113.5	112.8
15°	125.6	125.2	124.8	124.5	124.6	124.6	122.4	120.9	120.1	119.5	118.2
17.5°	133.0	132.2	131.2	130.0	128.2	127.7	127.6	127.5	126.4	126.3	124.9
20°	139.3	138.5	137.7	136.6	133.9	131.0	132.5	133.9	133.7	133.8	133.1
22.5°	147.1	146.5	145.0	143.5	140.1	136.7	136.9	139.8	140.2	140.6	140.8
25°	157.7	157.4	154.9	152.2	148.3	145.1	142.0	145.7	146.4	147.3	149.0
27.5°	168.5	167.9	165.1	162.8	157.7	154.4	150.1	152.0	153.2	154.9	157.6
30°	182.4	180.6	179.5	174.2	169.7	164.7	161.0	161.6	161.4	163.4	167.7
32.5°	202.5	199.6	194.7	189.3	184.0	177.3	174.2	174.1	173.7	175.9	178.3
35°	213.4	212.8	209.7	204.4	198.6	192.2	190.3	188.3	188.6	189.9	190.7
37.5°	225.2	224.5	222.2	219.2	214.8	218.3	207.2	204.5	203.3	202.6	203.0
40°	230.3	230.8	232.1	232.5	230.0	246.5	224.9	215.8	215.5	214.6	213.7
42.5°	231.4	232.6	235.2	240.8	243.4	279.5	239.6	228.6	227.0	226.4	226.5
45°	235.3	237.3	237.8	243.0	254.5	281.1	256.0	239.9	238.7	238.6	237.9
47.5°	244.9	247.6	247.6	249.8	260.9	284.4	261.7	251.1	250.3	249.9	251.5
50°	246.2	249.8	257.0	264.2	272.2	287.0	268.1	263.3	263.6	264.5	269.1
52.5°	222.9	226.5	245.2	266.7	292.8	294.3	277.7	279.6	281.6	285.9	294.4
55°	191.1	193.6	215.8	250.3	293.5	322.0	302.0	307.3	311.4	312.7	326.0
57.5°	150.5	154.1	176.7	221.3	274.0	329.9	357.8	360.2	355.6	359.9	364.7
60°	81.5	81.1	112.6	160.0	233.2	315.4	411.7	452.3	453.4	459.9	452.0
62.5°	45.6	45.6	54.6	82.1	150.1	266.8	437.6	532.1	544.4	554.8	577.6
65°	34.5	34.8	38.0	49.5	84.3	168.4	418.6	559.3	583.0	606.8	646.7
67.5°	28.6	28.6	31.0	36.9	52.7	76.5	308.2	504.7	534.3	562.7	618.0
69°	26.5	26.6	28.4	32.4	44.1	49.7	212.9	427.9	461.8	501.1	566.2
70°	25.6	25.3	26.9	30.3	40.0	39.3	156.0	372.0	398.3	433.6	508.5
72.5°	22.7	22.4	23.3	25.9	31.5	28.0	63.6	200.2	239.8	279.4	339.0
75°	20.3	19.9	20.7	21.8	24.4	21.4	32.0	83.9	101.6	131.2	181.1
77.5°	17.9	17.3	17.9	18.6	19.2	16.0	21.7	38.8	47.6	58.4	82.4
80°	16.2	15.5	16.3	15.9	15.1	12.4	14.4	22.6	25.1	30.0	39.3
82.5°	11.6	11.5	15.4	16.0	12.1	9.0	10.2	14.5	16.2	17.1	20.8
85°	7.1	6.9	9.0	11.5	12.3	5.6	6.6	8.6	9.0	9.7	11.6
87.5°	3.7	3.8	4.8	5.9	8.0	3.4	4.0	5.0	5.0	5.0	5.7
90°	0.9	1.1	1.4	2.0	1.6	0.9	1.4	1.2	1.4	1.2	1.4
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-T2-XXB

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
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-T2-XXB

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	97.9	97.6	97.2	97.3	97.1	96.8	96.9	96.8	96.9	96.7	96.5
5°	100.8	100.6	99.9	99.8	99.6	99.4	99.1	98.8	98.7	98.6	98.2
7.5°	104.0	103.4	103.1	102.7	102.2	101.5	101.4	101.0	100.7	100.5	99.9
10°	107.3	106.7	106.3	105.8	105.3	104.8	104.3	103.6	102.9	102.7	102.1
12.5°	112.4	111.5	110.7	109.9	109.5	108.5	107.8	107.0	106.3	106.0	105.0
15°	117.9	116.7	115.9	115.4	114.6	113.8	112.8	112.1	111.0	110.1	109.3
17.5°	124.4	123.4	122.8	121.6	120.7	119.8	119.1	118.2	117.2	115.6	114.9
20°	133.0	132.2	131.4	130.2	129.2	128.3	127.7	125.6	124.4	123.1	121.7
22.5°	141.0	141.1	140.5	139.6	138.9	137.7	136.8	135.2	133.8	132.2	130.3
25°	149.7	150.5	150.6	150.4	150.0	148.6	148.1	146.6	145.5	142.7	141.9
27.5°	159.4	160.2	161.3	162.8	163.0	161.5	162.2	160.7	158.7	157.4	154.9
30°	168.7	171.1	173.5	175.0	176.0	176.7	176.3	175.7	174.3	172.4	170.1
32.5°	180.8	183.3	185.6	189.0	190.8	193.0	192.6	192.8	192.3	190.4	187.7
35°	192.9	195.2	198.1	200.4	204.7	207.1	209.1	209.0	209.0	207.8	205.2
37.5°	203.7	204.9	207.4	211.1	214.0	217.8	221.0	222.2	224.2	224.3	221.6
40°	214.9	216.1	218.1	220.9	223.9	228.4	232.6	236.8	238.8	240.8	239.8
42.5°	227.0	228.4	229.8	231.6	236.1	239.6	245.3	250.9	254.9	259.2	258.7
45°	239.1	240.6	242.6	245.3	249.3	254.9	260.4	266.8	276.1	281.1	284.6
47.5°	252.7	255.2	258.9	263.1	266.4	272.2	279.3	289.0	298.4	307.1	312.5
50°	273.2	274.2	280.1	284.3	290.5	296.3	303.4	312.0	324.1	333.0	341.7
52.5°	297.4	301.2	307.1	311.8	316.7	322.6	329.8	337.6	349.5	359.6	370.8
55°	328.6	333.9	339.0	341.6	348.5	353.8	359.7	367.2	380.1	391.0	404.3
57.5°	365.8	371.1	373.6	377.3	380.2	386.2	394.0	399.2	410.6	421.9	435.9
60°	442.1	438.7	441.7	435.9	435.1	435.5	437.2	441.1	447.5	458.0	472.8
62.5°	580.0	575.1	562.3	557.7	548.7	536.5	525.1	523.5	520.2	528.0	537.4
65°	660.5	678.0	680.0	684.9	681.3	671.8	658.4	654.1	643.2	635.6	635.2
67.5°	641.2	667.5	683.9	704.8	716.3	727.5	730.5	734.4	727.4	723.9	724.9
69°	587.4	606.9	643.8	658.0	676.3	691.2	711.0	714.4	721.3	722.2	735.4
70°	534.1	562.8	583.9	605.2	630.4	646.9	655.8	670.4	687.3	695.6	709.8
72.5°	384.0	393.4	408.4	436.0	443.0	460.1	477.5	490.0	509.8	523.9	557.3
75°	207.2	212.8	236.4	252.1	256.2	261.9	274.7	277.7	285.1	289.7	321.8
77.5°	94.6	103.2	106.3	114.9	110.0	112.4	115.4	114.8	116.8	126.6	137.9
80°	43.6	45.3	46.4	50.0	50.2	49.4	49.7	49.2	48.8	50.4	51.6
82.5°	21.2	23.7	23.7	26.0	27.0	26.7	27.3	27.1	27.5	27.1	28.4
85°	12.5	12.5	13.4	14.6	14.4	14.8	14.8	15.5	15.7	15.9	15.9
87.5°	5.8	6.4	6.8	7.2	7.4	7.7	7.9	7.9	8.0	7.8	8.0
90°	1.4	1.4	2.5	2.5	2.7	3.0	2.6	2.8	3.5	2.6	3.3
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: P226264

CATALOG NUMBER: IST-AF-XXX-LED-E1-T2-XXB

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
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: P226264

CATALOG NUMBER: IST-AF-XXX-LED-E1-T2-XXB

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	96.3	96.5	96.4	96.0	96.0	96.0	95.7	95.6	95.4	95.3	95.5
5°	98.1	98.1	97.8	97.4	97.0	96.9	96.8	96.3	96.1	96.0	95.7
7.5°	99.7	99.5	99.1	98.5	98.1	98.0	97.6	97.1	96.6	96.2	96.0
10°	101.6	101.4	100.6	100.0	99.2	99.1	98.5	97.9	97.4	96.9	96.5
12.5°	104.1	103.9	103.0	101.8	101.3	100.9	99.9	99.2	98.6	98.0	97.3
15°	108.0	107.2	106.7	105.5	104.5	103.8	102.7	101.7	100.8	99.7	99.1
17.5°	113.5	112.5	110.9	110.2	109.0	107.7	106.3	105.6	104.3	103.1	101.9
20°	120.8	119.7	117.2	116.3	114.7	112.7	111.6	110.1	109.0	107.1	105.9
22.5°	128.8	127.8	125.4	123.1	121.4	120.0	118.2	116.2	114.2	112.4	111.0
25°	139.1	137.7	135.5	133.2	130.8	128.8	126.2	123.6	121.7	119.3	117.3
27.5°	153.2	150.7	147.2	144.6	142.8	139.6	136.5	134.1	131.3	128.1	125.9
30°	168.5	165.6	163.1	160.1	157.0	154.0	149.6	146.1	143.2	139.7	136.2
32.5°	185.5	183.0	179.4	175.5	172.1	168.3	165.1	161.4	156.3	152.6	148.8
35°	202.5	199.7	196.0	192.7	188.7	184.8	181.3	176.5	171.8	166.5	161.3
37.5°	219.0	216.6	212.5	207.5	204.1	199.8	196.1	191.0	185.5	179.6	175.7
40°	237.4	233.4	230.6	224.8	221.3	216.6	211.3	207.4	202.0	195.8	190.2
42.5°	258.4	255.6	252.6	248.0	244.2	238.6	232.0	226.9	222.0	214.5	206.7
45°	285.1	283.3	278.2	274.5	269.4	263.5	257.8	251.7	243.9	235.2	228.1
47.5°	317.0	315.7	311.1	305.8	299.1	291.1	285.8	277.4	270.9	260.0	251.5
50°	346.1	346.7	344.2	336.0	330.1	322.1	313.7	306.5	296.2	285.1	274.2
52.5°	380.6	379.9	373.8	369.2	362.2	352.5	343.4	334.0	322.8	311.2	297.7
55°	413.8	415.8	411.5	405.1	396.6	383.1	373.9	361.7	350.0	337.2	321.5
57.5°	446.0	452.6	449.3	441.6	432.9	423.2	410.9	397.3	385.2	368.5	350.9
60°	486.0	494.8	496.2	491.2	481.8	470.5	454.4	443.7	427.0	411.5	398.0
62.5°	547.7	567.6	566.4	568.9	562.1	555.1	536.2	524.8	503.1	491.9	473.1
65°	650.7	665.4	683.0	682.5	677.8	661.0	641.5	622.4	608.0	586.0	566.4
67.5°	737.1	749.3	759.7	754.3	743.7	724.8	701.9	675.2	653.5	629.2	603.4
69°	745.2	760.1	766.2	759.4	740.3	715.8	693.4	668.6	638.5	617.8	586.4
70°	723.5	738.2	750.4	733.1	715.7	691.6	667.2	641.4	614.6	592.2	560.5
72.5°	574.7	591.2	589.5	587.7	573.7	549.6	527.1	513.3	494.5	467.5	444.6
75°	334.2	341.8	328.5	342.5	325.7	301.6	304.6	289.1	275.3	259.7	247.7
77.5°	131.2	137.9	130.9	128.7	121.1	119.5	107.0	108.4	102.2	90.0	84.4
80°	49.7	50.6	49.4	47.0	46.4	43.6	42.9	40.1	38.8	34.8	33.2
82.5°	26.7	27.2	26.4	25.7	25.1	23.4	22.3	20.3	19.0	17.8	17.7
85°	15.3	15.0	14.6	14.2	13.3	12.4	11.6	10.7	9.8	9.2	8.5
87.5°	8.1	8.2	8.3	7.9	7.3	6.5	6.0	5.7	5.0	4.7	4.4
90°	2.7	1.9	2.3	2.9	2.7	2.1	2.0	1.7	1.4	1.4	1.2
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: P226264
CATALOG NUMBER: IST-AF-XXX-LED-E1-T2-XXB

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
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	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												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: P226264

REPORT NUMBER: P

NUMBER: IST-AF-XXX-LED-E1-T2-XXB

CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBU'

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	87°	
94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	110°	0.0
95.2	95.2	94.9	94.7	94.0	92.9	91.7	90.5	89.1	88.5	87.7	112.5°	0.0
95.5	95.3	95.0	94.6	93.2	90.4	87.7	84.6	81.4	78.6	75.2	115°	0.0
95.7	95.3	94.9	94.4	92.5	88.2	82.4	76.5	70.9	66.6	64.9	117.5°	0.0
95.9	95.5	95.0	94.3	91.6	85.2	76.1	67.4	62.5	60.8	60.5	120°	0.0
96.9	96.4	95.6	94.8	91.1	82.0	68.8	60.6	58.6	59.4	60.8	122.5°	0.0
98.3	97.7	96.7	96.0	90.9	77.7	61.9	56.8	57.4	59.6	61.9	125°	0.0
100.8	99.7	98.7	97.9	91.3	72.5	56.3	54.7	56.9	59.6	62.6	127.5°	0.0
104.3	103.0	101.7	100.4	92.0	66.0	52.9	53.5	56.0	58.9	62.3	130°	0.0
108.9	107.3	105.6	103.5	92.7	60.4	51.0	52.1	54.3	57.0	59.7	132.5°	0.0
115.1	112.8	110.6	108.0	93.6	54.2	49.3	50.5	51.9	53.4	54.7	135°	0.0
122.8	119.8	117.3	113.9	94.6	50.1	48.0	48.4	48.7	48.8	48.7	137.5°	0.0
133.0	128.5	125.6	121.3	95.7	48.0	46.3	45.9	45.4	44.7	43.9	140°	0.0
143.8	140.1	135.5	130.1	96.4	46.4	44.9	43.3	41.9	41.2	41.2	142.5°	0.0
156.5	151.8	146.1	139.3	95.5	44.9	43.0	40.8	40.1	40.9	40.6	145°	0.0
169.1	162.8	156.4	148.6	93.3	43.1	40.7	39.7	40.3	39.1	38.4	147.5°	0.0
183.0	175.9	167.2	158.0	90.2	41.2	39.7	40.3	38.2	36.8	37.4	150°	0.0
198.7	190.3	180.8	168.4	88.1	40.1	38.0	38.5	36.7	35.7	35.4	152.5°	0.0
219.8	207.9	196.3	181.9	89.7	38.2	34.8	36.7	35.7	34.8	34.1	155°	0.0
240.6	227.9	214.3	197.2	92.5	36.8	32.1	34.8	35.5	34.1	32.5	157.5°	0.0
261.6	248.1	232.2	213.1	95.9	35.9	30.2	32.5	35.0	33.2	32.0	160°	0.0
283.6	266.5	250.2	229.7	100.1	35.0	28.6	30.6	34.2	33.2	31.5	162.5°	0.0
306.7	286.5	270.3	248.1	107.7	33.8	26.6	29.1	33.2	33.1	30.9	165°	0.0
333.5	315.6	294.6	272.0	118.3	32.2	24.9	27.8	32.4	32.7	30.2	167.5°	0.0
379.2	360.6	335.3	313.8	139.2	30.3	23.7	26.6	31.2	32.0	29.6	170°	0.0
453.3	428.0	404.8	384.7	175.0	27.5	23.0	25.4	29.8	31.0	29.2	172.5°	0.0
538.3	513.5	485.5	451.7	195.0	25.0	21.9	23.7	28.4	30.0	28.6	175°	0.0
574.4	542.1	508.0	467.9	175.9	22.9	20.8	22.3	26.8	28.6	27.9	177.5°	0.0
557.7	525.1	485.5	446.2	153.0	21.8	20.0	21.5	25.7	27.7	27.2	180°	0.0
529.0	496.1	460.7	413.5	136.7	21.2	19.5	21.0	25.2	27.2	26.8		
418.4	389.0	356.5	320.5	93.2	19.2	18.0	19.5	23.2	25.5	25.4		
221.7	213.1	189.0	168.0	48.3	17.2	16.3	17.9	21.4	23.7	23.7		
79.8	72.4	69.3	57.5	25.7	15.0	14.6	15.8	19.4	21.7	21.6		
30.2	29.4	26.4	24.7	16.3	12.3	12.4	13.5	17.1	19.2	19.1		
17.1	15.4	15.0	14.5	10.3	9.7	10.1	11.4	14.6	16.5	16.8		
8.2	7.6	7.4	7.0	6.9	7.4	8.0	9.0	11.7	13.9	13.6		
4.0	3.8	3.7	3.6	4.8	4.7	5.8	6.2	7.8	11.0	9.9		
1.3	1.3	1.2	1.0	1.4	1.5	1.8	2.7	3.3	6.4	5.2		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

'226264
IST-AF-XXX-LED-E1-T2-XXB

REPORT NUMBER: P226264
CATALOG NUMBER: IST-AF-XX

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	94.5	94.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	87.1	85.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	72.7	72.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	63.7	62.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	60.8	60.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	62.1	62.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	63.7	64.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	64.9	65.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	64.5	65.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	61.3	61.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	55.4	55.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	48.5	48.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	43.5	42.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	41.2	40.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	39.7	38.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	41.1	41.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	42.6	42.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	40.2	38.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	35.8	33.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	32.8	31.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	31.5	31.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	31.1	32.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	30.9	32.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	29.5	31.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	28.5	30.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	27.9	30.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	27.4	30.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	26.6	31.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°	26.3	31.2
										70°	25.9	30.9
										72.5°	24.4	28.5
										75°	22.8	25.2
										77.5°	20.7	21.6
										80°	18.2	18.8
										82.5°	15.9	18.1
										85°	12.5	15.3
										87.5°	9.2	8.5
										90°	5.2	3.9
										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



X-LED-E1-T2-XXB

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tinued):

180°
94.5
85.9
71.9
62.6
61.0
62.2
64.5
66.3
66.1
62.4
55.9
49.0
43.2
41.3
39.0
41.5
42.8
38.8
33.8
31.5
30.9
32.3
31.9
31.5
30.9
30.4
30.3
30.5
30.1
29.6
26.6
23.9
21.6
19.0
16.1
12.1
9.2
3.3
0.0
0.0
0.0
0.0
0.0
0.0
0.0
0.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
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

(END OF F

