

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: P226456

Luminaire Tested: **IST-AF-350-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-350-LED-E1-T3-8030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2043 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U1 - G1

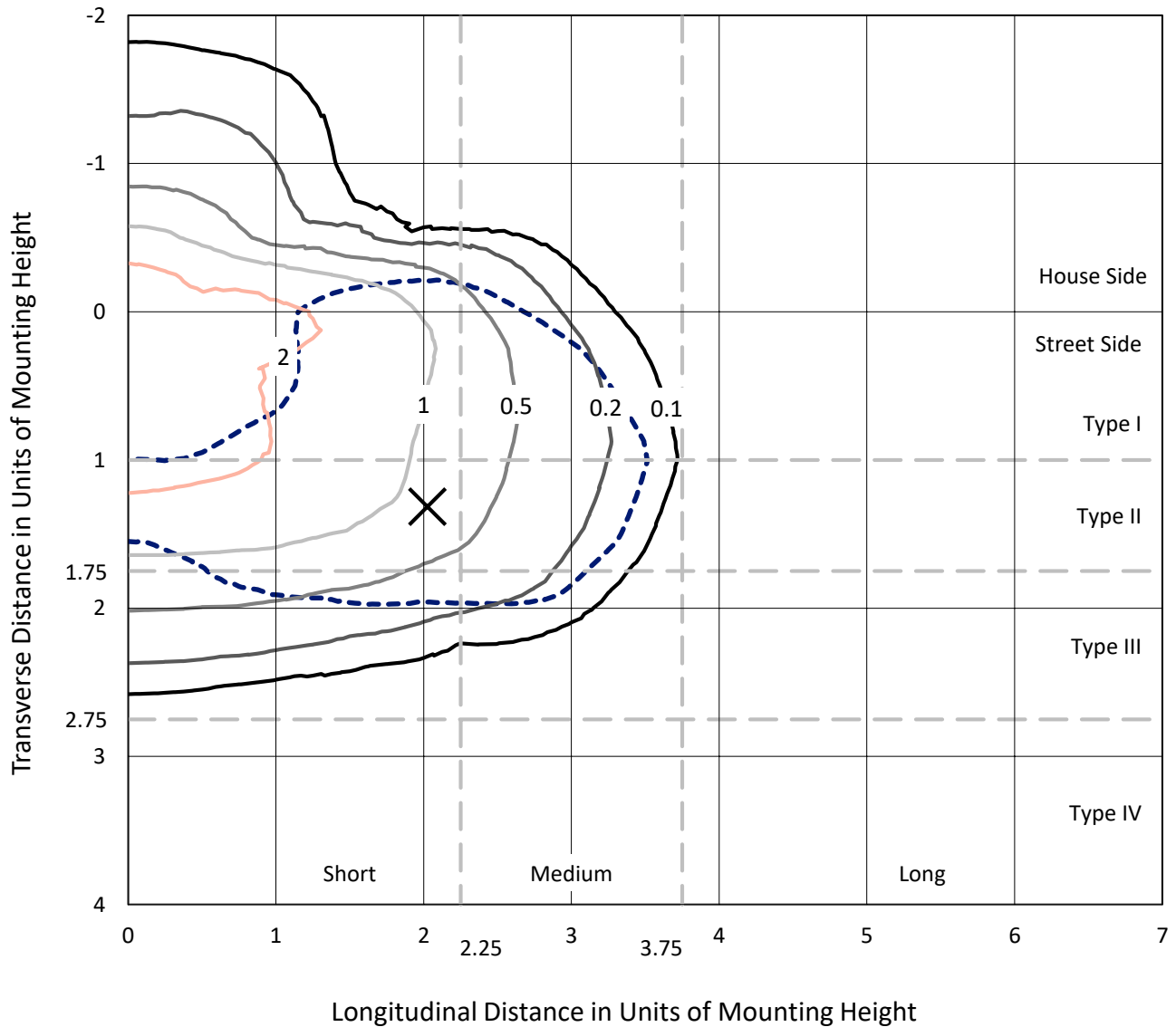
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226456
 CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

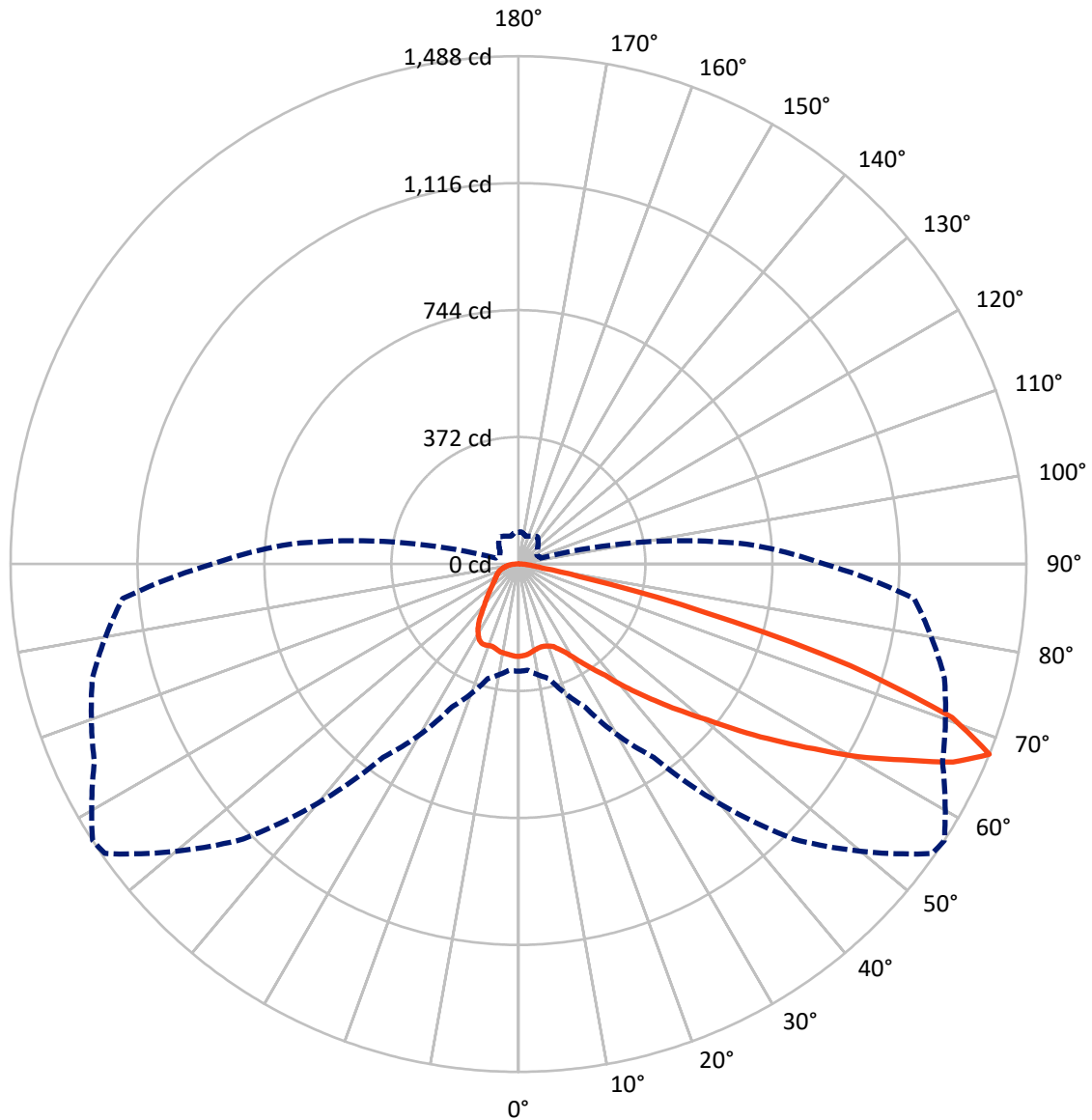
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Cutoff

REPORT NUMBER: P226456
CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P226456

CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

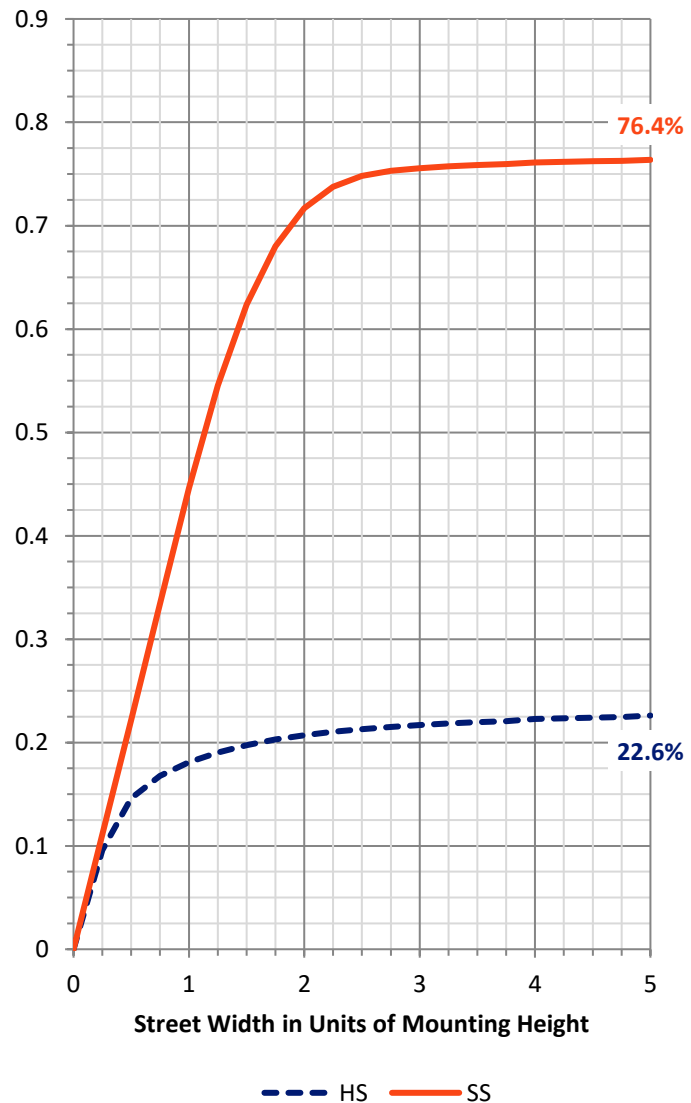
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.4	0.6	476.0
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	1566.8	0.2	1566.9
	% Fixture	76.7	0.0	76.7
Total	Lumens	2042.2	0.8	2043.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	1.2
10°-20°	72.8	3.6
20°-30°	125.2	6.1
30°-40°	203.6	10.0
40°-50°	328.5	16.1
50°-60°	489.7	24.0
60°-70°	551.5	27.0
70°-80°	212.6	10.4
80°-90°	33.0	1.6
90°-100°	0.8	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°	2042.2	100.0
0°-180°	2043.0	100.0



REPORT NUMBER: P226456

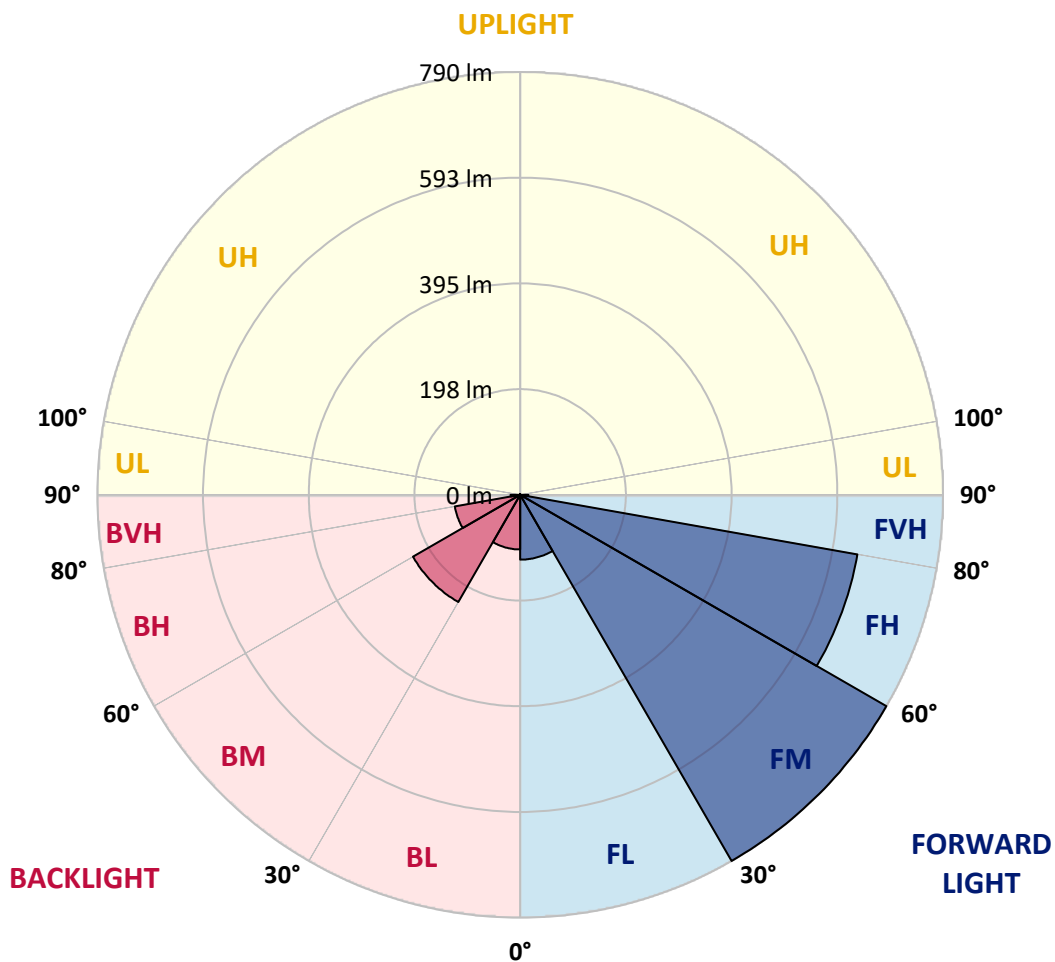
CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.2	5.9			
FM	(30°-60°)	790.4	38.7			
FH	(60°-80°)	640.1	31.3			G0/660
FVH	(80°-90°)	15.1	0.7			G1/100
BL	(0°-30°)	102.2	5.0	B0/110		
BM	(30°-60°)	231.4	11.3	B1/1000		
BH	(60°-80°)	124.1	6.1	B1/500		G1/500
BVH	(80°-90°)	17.8	0.9			G1/100
UL	(90°-100°)	0.8	0.0		U1/10	
UH	(100°-180°)	0.6	0.0		U1/10	

BUG Rating: B1-U1-G1

Type III Short





REPORT NUMBER: P226456

CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
2.5°	268.7	269.3	269.8	269.5	269.5	269.5	269.5	269.5	269.8	269.8	269.3
5°	264.2	264.5	264.8	265.4	266.0	266.6	266.9	266.9	267.2	266.9	266.3
7.5°	257.7	258.0	259.2	259.2	259.8	261.0	261.6	262.1	263.0	263.0	262.7
10°	255.6	255.6	255.6	254.8	255.3	255.6	256.5	256.5	258.9	260.1	260.7
12.5°	258.0	257.7	257.7	255.3	253.3	252.4	253.3	253.6	256.2	258.0	259.2
15°	263.3	263.3	262.7	259.2	255.0	251.8	251.5	251.5	253.6	256.2	258.3
17.5°	275.8	276.9	272.8	267.2	260.4	255.0	253.0	252.7	254.2	256.2	258.3
20°	299.4	299.1	292.9	282.9	271.0	262.1	257.1	256.5	256.2	257.4	259.8
22.5°	327.5	326.4	319.0	306.2	290.0	273.7	263.9	262.7	260.4	261.3	264.5
25°	357.7	358.0	348.8	332.3	311.9	292.3	277.5	276.4	271.3	270.7	274.3
27.5°	387.9	391.7	379.3	363.6	339.4	316.0	294.4	292.6	288.2	286.7	290.3
30°	432.0	430.5	415.1	394.7	370.4	341.1	320.4	317.2	308.3	310.4	314.2
32.5°	469.3	472.5	458.6	434.4	402.4	371.6	347.7	345.9	337.3	339.7	345.0
35°	514.8	522.5	504.2	474.3	443.5	411.9	383.2	378.4	371.6	376.4	380.5
37.5°	566.9	570.8	556.6	518.1	486.7	453.6	421.0	413.6	406.2	416.0	423.4
40°	616.6	622.8	604.5	571.9	535.5	503.9	468.4	466.9	449.7	460.4	479.6
42.5°	690.3	698.0	668.7	630.8	598.0	559.8	526.1	518.1	499.4	514.5	546.8
45°	741.8	741.5	721.7	690.3	670.2	633.2	587.6	578.2	558.0	578.2	621.3
47.5°	760.4	764.9	758.0	754.2	747.1	720.2	653.0	644.1	625.2	655.1	695.0
50°	787.9	786.7	786.7	810.4	830.8	825.2	729.6	716.9	697.1	732.9	790.3
52.5°	795.0	784.4	800.9	846.2	911.0	915.7	818.7	811.6	787.9	822.8	893.6
55°	775.2	772.5	798.9	864.6	966.6	1000.4	922.0	912.2	885.6	915.5	1005.1
57.5°	730.8	737.6	779.9	860.7	1005.1	1074.9	1035.3	1021.4	983.2	1001.3	1115.8
60°	684.4	687.6	743.5	847.1	1015.5	1126.7	1154.2	1146.2	1080.9	1091.5	1197.7
62.5°	632.9	625.2	683.2	835.9	1003.9	1198.0	1269.6	1263.4	1186.2	1182.9	1256.0
65°	489.1	499.7	549.2	690.9	924.9	1253.6	1407.2	1399.2	1303.6	1258.4	1249.8
67.5°	314.2	312.2	347.1	461.9	691.2	1139.4	1479.1	1488.0	1370.8	1292.4	1164.0
70°	112.7	116.0	129.0	209.8	379.0	759.2	1303.9	1348.0	1321.4	1228.8	947.4
72.5°	68.6	68.6	78.1	94.4	153.6	360.1	929.4	1016.6	1078.5	1012.5	699.8
75°	53.9	53.6	56.8	65.1	82.8	118.1	494.1	561.6	691.8	699.5	398.3
77.5°	42.6	42.3	45.6	49.4	61.8	62.4	157.7	205.3	317.5	298.8	142.3
80°	34.3	34.0	36.4	37.6	45.3	43.2	63.3	73.4	111.3	97.6	61.5
82.5°	31.1	31.1	33.4	28.7	31.4	30.5	39.4	42.0	55.9	58.0	37.0
85°	20.1	20.7	31.4	27.8	20.4	18.6	25.1	26.6	34.9	38.2	18.0
87.5°	9.5	10.4	24.0	23.1	13.6	10.1	14.2	15.1	18.9	23.4	10.7
90°	1.8	1.8	3.0	3.3	1.8	1.8	2.4	2.1	2.1	3.0	3.0
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
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: P226456

CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
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: P226456

CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
2.5°	270.1	269.5	269.8	270.1	270.4	271.3	271.6	271.6	271.6	271.3	271.9
5°	266.9	266.3	266.3	267.2	268.1	269.3	271.0	272.5	273.1	273.4	273.4
7.5°	263.3	262.7	263.0	264.5	266.0	266.9	268.7	269.5	271.9	271.9	272.5
10°	261.0	261.6	261.9	263.3	264.5	264.5	264.2	263.6	263.0	264.5	263.9
12.5°	259.5	260.4	260.1	261.9	262.4	260.1	256.5	251.8	251.2	251.8	252.4
15°	258.9	258.9	259.8	259.8	256.8	252.1	247.7	247.9	248.5	250.3	250.3
17.5°	258.9	259.2	259.8	257.7	252.4	248.2	247.4	246.5	243.2	242.3	241.4
20°	261.0	260.4	261.0	257.1	252.4	249.1	242.3	235.8	229.6	226.9	225.8
22.5°	266.0	265.1	264.8	261.0	255.0	244.1	230.8	220.7	210.1	206.5	205.3
25°	274.9	274.6	272.5	269.8	253.3	232.0	215.1	199.1	187.6	181.4	181.7
27.5°	290.6	290.6	289.4	277.5	244.1	216.9	194.1	177.8	166.0	160.1	159.2
30°	314.2	314.8	315.4	279.6	229.6	194.7	171.0	160.1	153.0	148.5	148.2
32.5°	343.5	346.8	342.9	277.2	209.8	167.8	153.0	149.1	145.6	142.6	142.3
35°	382.3	391.2	366.9	267.8	187.6	149.4	142.0	139.4	136.7	134.6	134.9
37.5°	434.4	442.9	382.3	251.8	159.2	139.1	135.8	131.7	127.5	123.1	122.5
40°	495.9	493.2	387.6	221.6	141.4	134.0	129.6	124.3	117.2	110.7	109.5
42.5°	557.4	539.7	383.2	184.3	129.9	129.6	123.4	116.6	109.5	103.9	103.9
45°	626.4	580.5	369.6	149.4	120.7	124.9	117.2	110.1	103.6	99.4	99.1
47.5°	691.5	618.7	347.1	124.6	111.5	118.6	112.4	105.9	99.7	96.2	95.3
50°	767.8	662.2	329.9	107.7	102.7	112.4	109.8	103.9	97.9	93.8	93.2
52.5°	845.0	704.5	316.9	96.2	94.7	107.7	108.6	105.0	98.8	90.8	90.2
55°	925.8	757.5	290.9	87.0	87.6	104.1	110.1	107.4	103.0	89.9	89.4
57.5°	993.6	806.3	245.3	80.8	82.0	101.5	110.7	105.6	100.6	90.5	89.7
60°	1046.5	839.7	179.9	75.7	76.9	98.5	108.0	99.4	92.9	90.5	89.1
62.5°	1062.8	840.9	119.5	69.8	73.1	93.5	103.3	96.2	88.5	89.7	89.1
65°	1022.0	796.5	85.5	64.2	69.8	87.6	101.2	92.9	86.4	91.1	90.5
67.5°	896.2	671.1	68.6	59.8	65.4	81.4	97.3	89.9	84.6	94.4	92.6
70°	698.3	481.4	58.3	55.3	60.7	75.4	92.0	86.7	82.3	91.7	89.4
72.5°	460.4	283.5	51.5	51.2	55.0	70.4	86.1	83.7	78.4	83.1	79.6
75°	240.3	131.4	44.7	46.5	48.8	66.0	80.8	78.4	72.5	74.3	73.1
77.5°	94.4	61.5	38.8	40.8	43.5	59.5	74.0	71.6	66.6	65.1	64.8
80°	51.8	41.4	32.3	34.9	36.7	53.6	66.9	64.2	58.9	58.0	57.1
82.5°	32.8	26.9	26.6	28.4	30.8	47.6	60.1	55.9	51.5	60.7	49.1
85°	15.4	16.0	18.9	21.3	24.0	40.5	52.4	47.9	43.5	42.3	37.6
87.5°	8.6	10.7	12.4	14.5	16.6	28.4	41.4	37.3	32.5	27.8	28.7
90°	2.1	2.1	3.6	3.3	3.6	4.1	20.4	18.3	16.3	7.7	5.0
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
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: P226456

CATALOG NUMBER: IST-AF-350-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
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

(END OF REPORT)