

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: P271628

Luminaire Tested: **IST-AF-350-LED-E1-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271628
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-T3-7027
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2175.2 lumens
Efficiency: N/A
Efficacy: 108.3 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

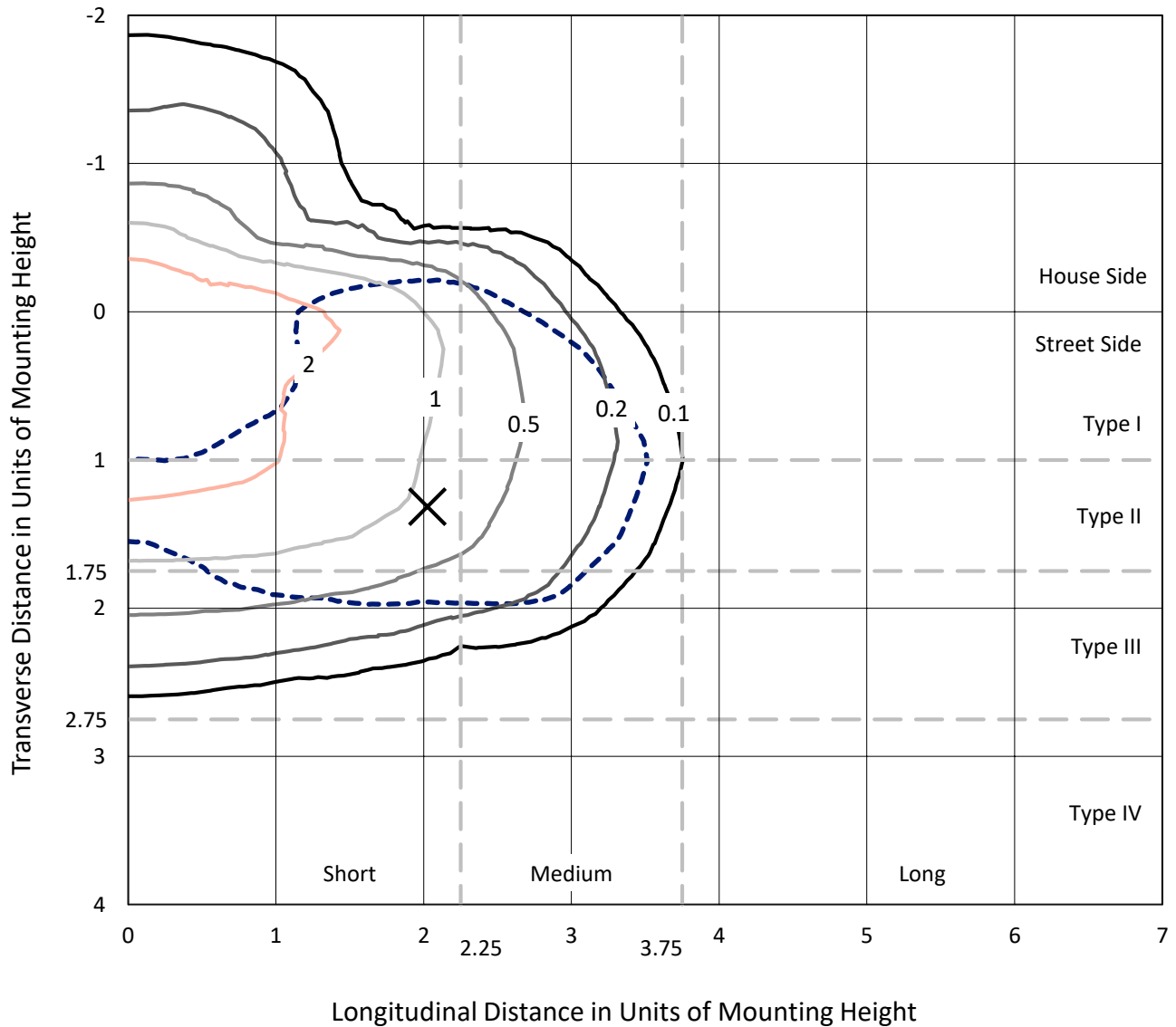
Input Watts (W): 20.09
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

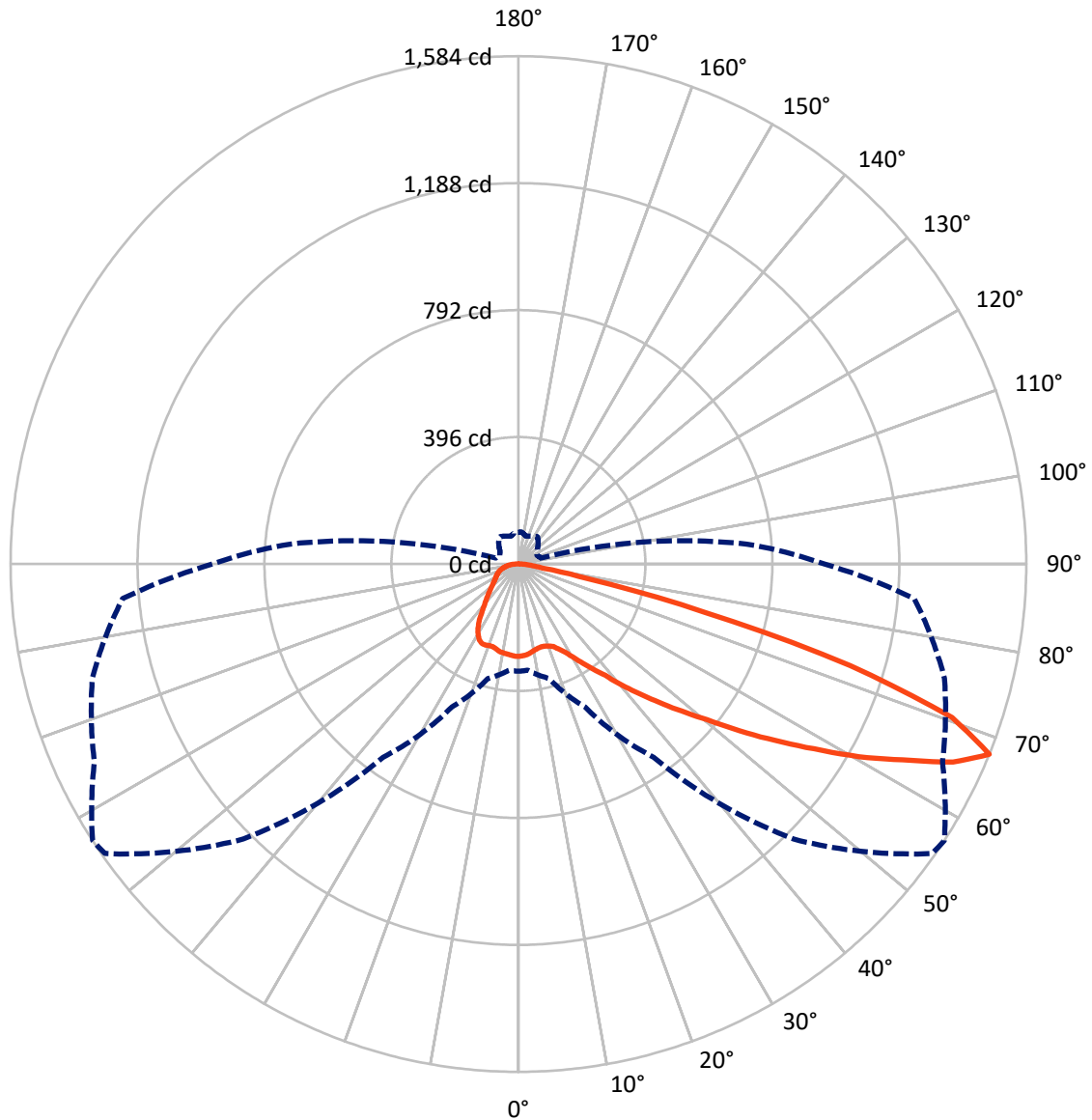
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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

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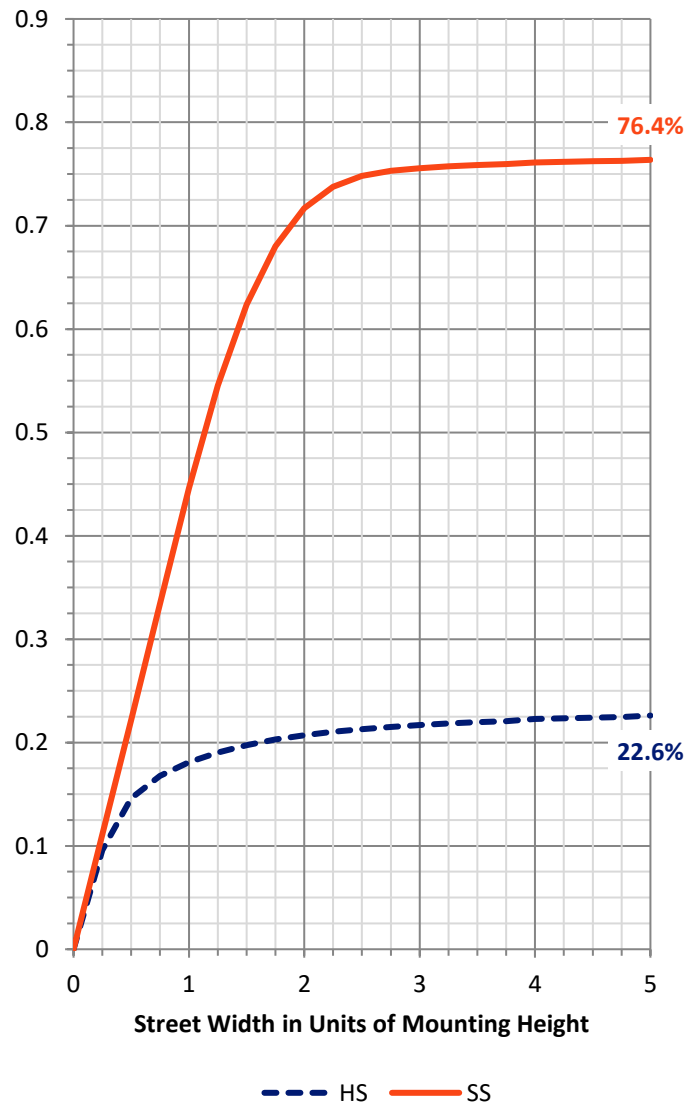
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.2	0.6	506.8
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	1668.2	0.2	1668.3
	% Fixture	76.7	0.0	76.7
Total	Lumens	2174.4	0.8	2175.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	1.2
10°-20°	77.5	3.6
20°-30°	133.4	6.1
30°-40°	216.8	10.0
40°-50°	349.7	16.1
50°-60°	521.4	24.0
60°-70°	587.2	27.0
70°-80°	226.4	10.4
80°-90°	35.1	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°	2174.4	100.0
0°-180°	2175.2	100.0



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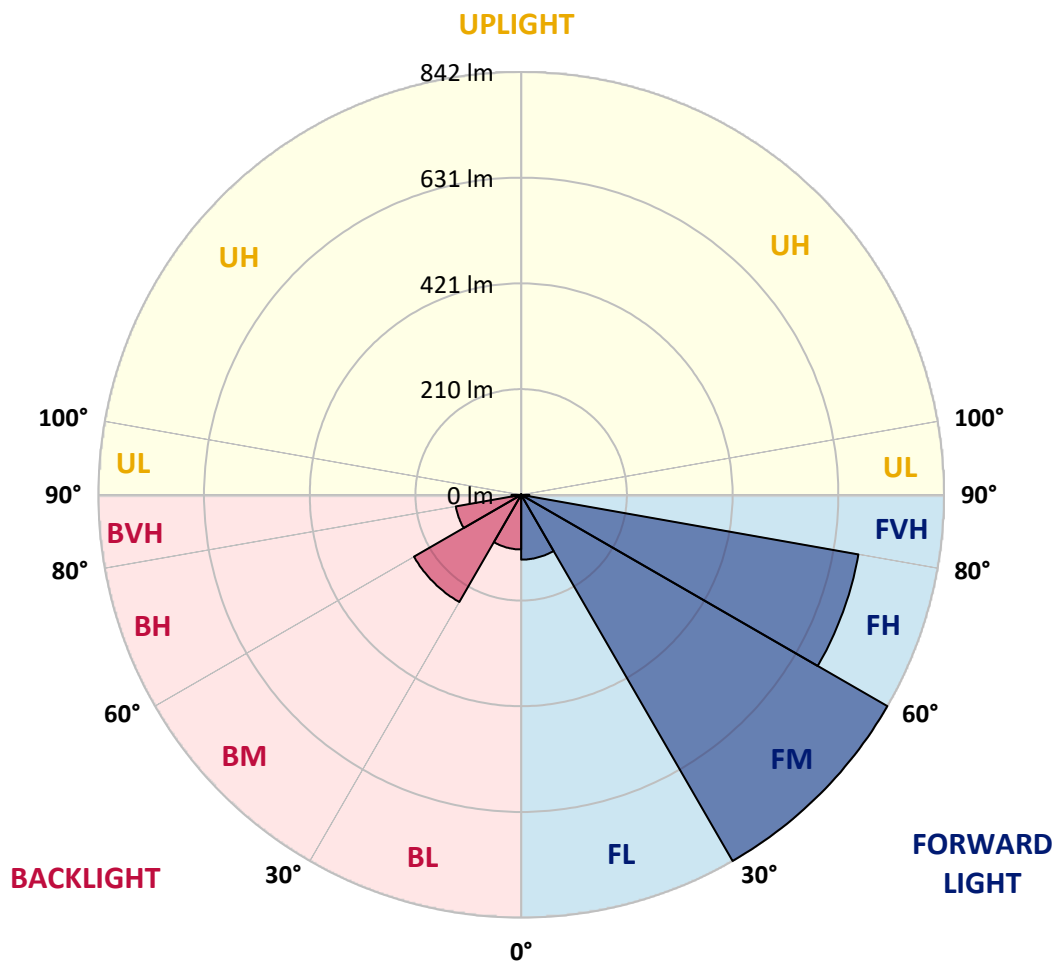
CATALOG NUMBER: IST-AF-350-LED-E1-T3-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.0	5.9			
FM	(30°-60°)	841.5	38.7			
FH	(60°-80°)	681.5	31.3			G1/1800
FVH	(80°-90°)	16.1	0.7			G1/100
BL	(0°-30°)	108.8	5.0	B0/110		
BM	(30°-60°)	246.4	11.3	B1/1000		
BH	(60°-80°)	132.1	6.1	B1/500		G1/500
BVH	(80°-90°)	19.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3
2.5°	286.0	286.6	287.3	287.0	287.0	287.0	287.0	286.4	287.3	287.3	286.6
5°	281.3	281.6	282.0	282.6	283.2	283.9	284.1	284.1	284.4	284.1	283.5
7.5°	274.4	274.7	276.0	276.0	276.6	277.8	278.5	279.1	280.0	280.0	279.7
10°	272.2	272.2	272.2	271.3	271.8	272.2	273.2	273.2	275.7	276.9	277.6
12.5°	274.7	274.4	274.4	271.8	269.7	268.8	269.7	270.0	272.8	274.7	276.0
15°	280.5	280.5	279.7	276.0	271.6	268.1	267.8	267.8	270.0	272.8	275.0
17.5°	293.6	294.8	290.4	284.4	277.3	271.6	269.3	269.0	270.6	272.8	275.0
20°	318.8	318.4	311.9	301.1	288.5	279.1	273.7	273.2	272.8	274.1	276.6
22.5°	348.7	347.5	339.6	326.1	308.7	291.4	281.0	279.7	277.3	278.1	281.6
25°	380.9	381.2	371.4	353.8	332.0	311.3	295.5	294.3	288.9	288.3	291.9
27.5°	413.0	417.2	403.9	387.2	361.4	336.4	313.5	311.5	306.8	305.2	309.1
30°	459.9	458.3	442.0	420.2	394.4	363.3	341.2	337.8	328.3	330.5	334.6
32.5°	499.6	503.1	488.3	462.4	428.4	395.6	370.1	368.2	359.1	361.7	367.4
35°	548.1	556.3	536.7	504.9	472.1	438.6	408.0	402.9	395.6	400.7	405.1
37.5°	603.6	607.7	592.5	551.6	518.2	483.0	448.3	440.3	432.5	443.0	450.8
40°	656.5	663.1	643.5	608.9	570.2	536.5	498.6	497.1	478.9	490.1	510.7
42.5°	734.9	743.2	712.0	671.7	636.7	596.0	560.1	551.6	531.8	547.9	582.2
45°	789.8	789.5	768.4	734.9	713.5	674.2	625.7	615.6	594.2	615.6	661.5
47.5°	809.6	814.3	807.0	803.1	795.4	766.7	695.3	685.9	665.6	697.4	740.0
50°	838.8	837.7	837.7	862.8	884.7	878.6	776.9	763.3	742.2	780.3	841.4
52.5°	846.6	835.2	852.9	901.0	970.0	975.0	871.6	864.1	838.8	876.0	951.3
55°	825.4	822.6	850.5	920.5	1029.2	1065.1	981.6	971.2	943.0	974.8	1070.2
57.5°	778.1	785.4	830.4	916.5	1070.2	1144.5	1102.3	1087.5	1046.9	1066.1	1188.0
60°	728.6	732.1	791.7	901.9	1081.2	1199.7	1228.9	1220.3	1150.8	1162.1	1275.2
62.5°	673.9	665.6	727.4	890.0	1068.9	1275.5	1351.8	1345.2	1262.9	1259.4	1337.3
65°	520.7	532.1	584.7	735.6	984.8	1334.8	1498.2	1489.7	1388.0	1339.8	1330.7
67.5°	334.6	332.4	369.6	491.7	735.9	1213.3	1574.8	1584.3	1459.6	1376.0	1239.3
70°	120.0	123.4	137.4	223.4	403.6	808.4	1388.3	1435.2	1406.9	1308.3	1008.8
72.5°	73.1	73.1	83.1	100.5	163.5	383.4	989.6	1082.5	1148.2	1078.1	745.1
75°	57.3	57.0	60.5	69.3	88.2	125.8	526.0	597.9	736.5	744.8	424.0
77.5°	45.4	45.1	48.5	52.6	65.8	66.5	167.9	218.6	338.0	318.2	151.5
80°	36.5	36.2	38.8	40.1	48.1	46.0	67.5	78.2	118.5	103.9	65.6
82.5°	33.1	33.1	35.7	30.5	33.3	32.5	42.0	44.7	59.6	61.7	39.3
85°	21.4	22.1	33.3	29.6	21.6	19.9	26.8	28.4	37.2	40.6	19.2
87.5°	10.2	11.0	25.5	24.5	14.6	10.7	15.1	16.1	20.1	25.0	11.4
90°	1.9	1.9	3.1	3.4	1.9	1.9	2.5	2.2	2.2	3.1	3.1
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



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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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3	288.3
2.5°	287.5	287.0	287.3	287.5	288.0	288.9	289.3	289.3	289.3	288.9	289.5
5°	284.1	283.5	283.5	284.4	285.4	286.6	288.5	290.2	290.8	291.1	291.1
7.5°	280.5	279.7	280.0	281.6	283.2	284.1	286.0	287.0	289.5	289.5	290.2
10°	277.8	278.5	278.8	280.5	281.6	281.6	281.3	280.7	280.0	281.6	281.0
12.5°	276.3	277.3	276.9	278.8	279.5	276.9	273.2	268.1	267.4	268.1	268.8
15°	275.7	275.7	276.6	276.6	273.4	268.4	263.7	264.0	264.6	266.4	266.4
17.5°	275.7	276.0	276.6	274.4	268.8	264.3	263.3	262.5	258.9	258.0	257.1
20°	277.8	277.3	277.8	273.7	268.8	265.3	258.0	251.1	244.5	241.6	240.4
22.5°	283.2	282.2	282.0	277.8	271.6	259.9	245.8	235.0	223.7	219.8	218.6
25°	292.7	292.4	290.2	287.3	269.7	246.9	229.0	212.0	199.7	193.1	193.5
27.5°	309.4	309.4	308.1	295.5	259.9	231.0	206.7	189.4	176.8	170.4	169.5
30°	334.6	335.2	335.9	297.7	244.5	207.3	182.1	170.4	162.9	158.1	157.8
32.5°	365.7	369.2	365.1	295.3	223.4	178.7	162.9	158.8	155.0	151.8	151.5
35°	407.0	416.5	390.7	285.1	199.7	159.1	151.3	148.4	145.5	143.3	143.7
37.5°	462.4	471.6	407.0	268.1	169.5	148.1	144.5	140.1	135.7	131.1	130.4
40°	527.9	525.1	412.7	236.0	150.6	142.7	138.0	132.3	124.8	117.8	116.6
42.5°	593.5	574.6	408.0	196.3	138.2	138.0	131.3	124.1	116.6	110.6	110.6
45°	666.9	618.0	393.5	159.1	128.5	132.9	124.8	117.2	110.2	105.8	105.6
47.5°	736.3	658.7	369.6	132.6	118.8	126.3	119.7	112.7	106.2	102.4	101.5
50°	817.5	705.0	351.2	114.6	109.3	119.7	116.9	110.6	104.2	99.8	99.3
52.5°	899.7	750.1	337.4	102.4	100.8	114.6	115.6	111.7	105.2	96.7	96.1
55°	985.7	806.5	309.6	92.6	93.2	110.9	117.2	114.4	109.6	95.8	95.1
57.5°	1057.8	858.4	261.1	86.0	87.2	108.1	117.8	112.5	107.1	96.4	95.5
60°	1114.3	894.0	191.6	80.7	81.9	104.9	115.1	105.8	98.9	96.4	94.8
62.5°	1131.5	895.3	127.3	74.3	77.8	99.5	110.0	102.4	94.2	95.5	94.8
65°	1088.0	848.1	91.1	68.5	74.3	93.2	107.8	98.9	92.0	97.1	96.4
67.5°	954.2	714.5	73.1	63.6	69.6	86.7	103.7	95.8	90.1	100.5	98.6
70°	743.4	512.6	62.1	58.9	64.6	80.3	97.9	92.3	87.6	97.6	95.1
72.5°	490.1	301.8	54.8	54.4	58.6	75.0	91.6	89.1	83.5	88.6	84.7
75°	255.7	139.9	47.6	49.5	52.0	70.2	86.0	83.5	77.2	79.1	77.8
77.5°	100.5	65.6	41.2	43.5	46.4	63.3	78.7	76.3	70.9	69.3	69.0
80°	55.2	44.1	34.3	37.2	39.1	57.0	71.1	68.5	62.7	61.7	60.7
82.5°	34.9	28.7	28.4	30.3	32.8	50.8	64.0	59.6	54.8	64.6	52.3
85°	16.3	17.0	20.1	22.6	25.5	43.2	55.8	51.0	46.4	45.1	40.1
87.5°	9.2	11.4	13.3	15.5	17.7	30.3	44.1	39.6	34.7	29.6	30.5
90°	2.2	2.2	3.9	3.4	3.9	4.4	21.6	19.5	17.3	8.2	5.4
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
110°	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-350-LED-E1-T3-7027

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)