

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: P226463

Luminaire Tested: **IST-AF-350-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226463
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-T3-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2216.2 lumens
Efficiency: N/A
Efficacy: 110.3 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

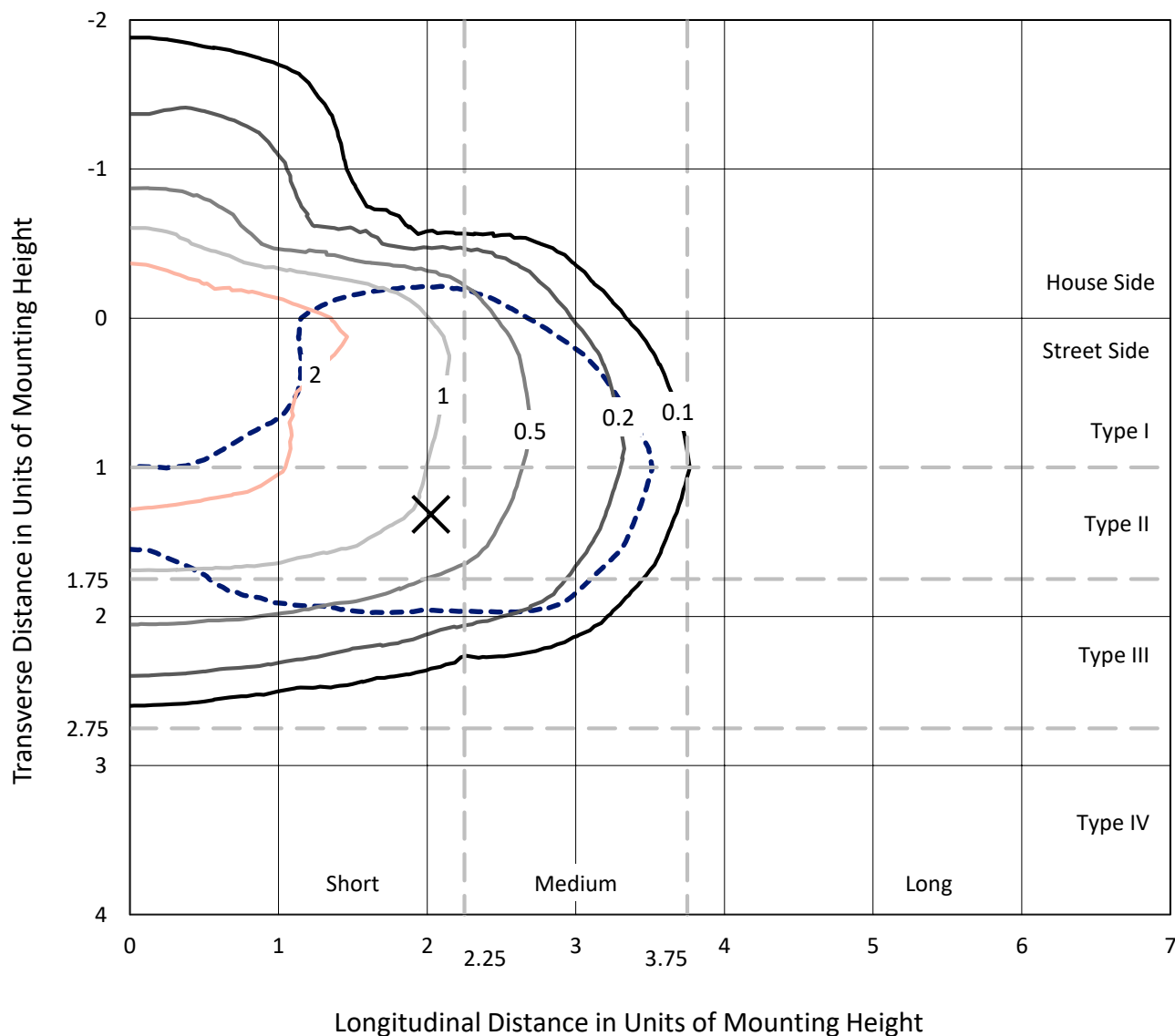


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

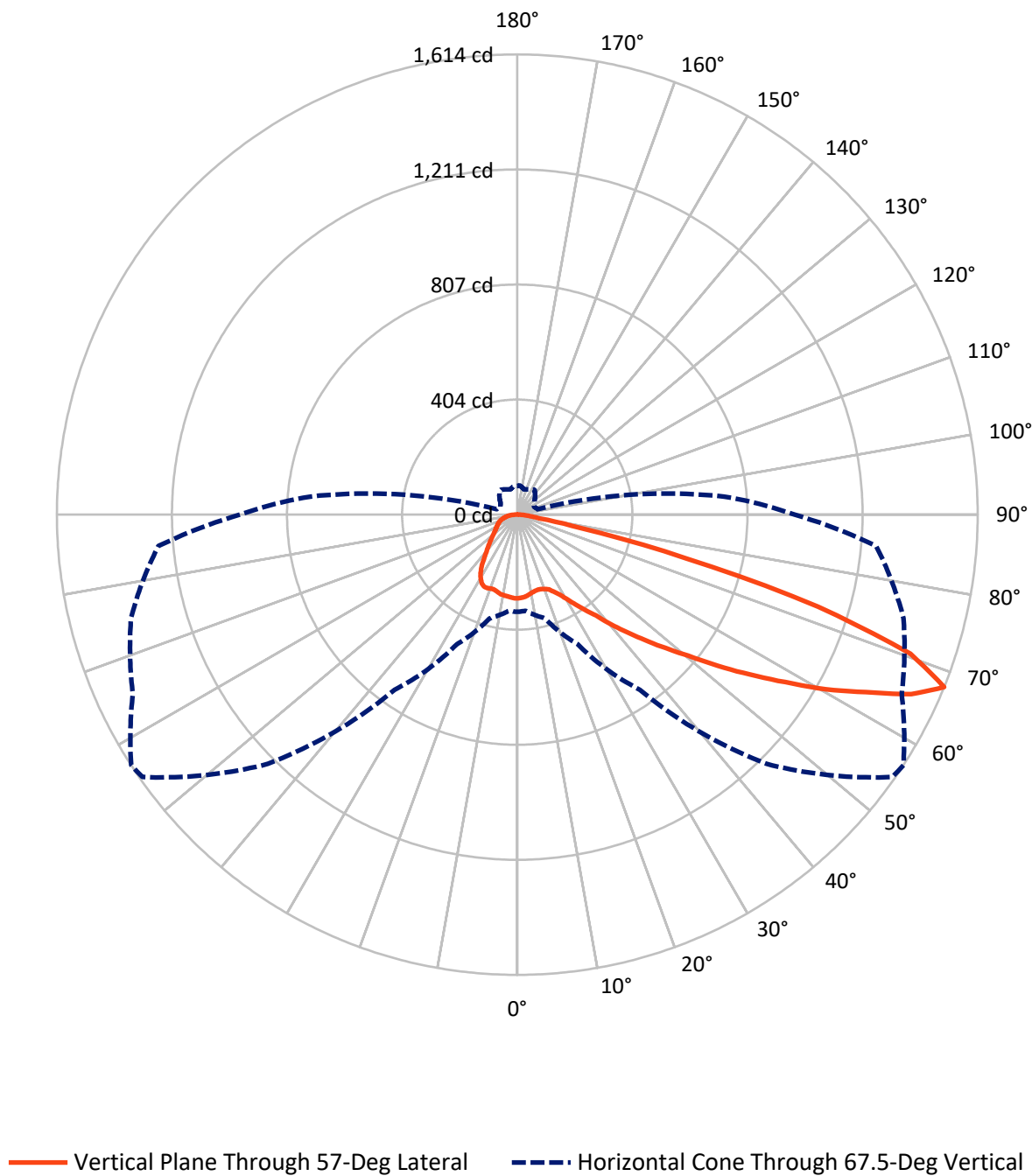


Based on 10 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



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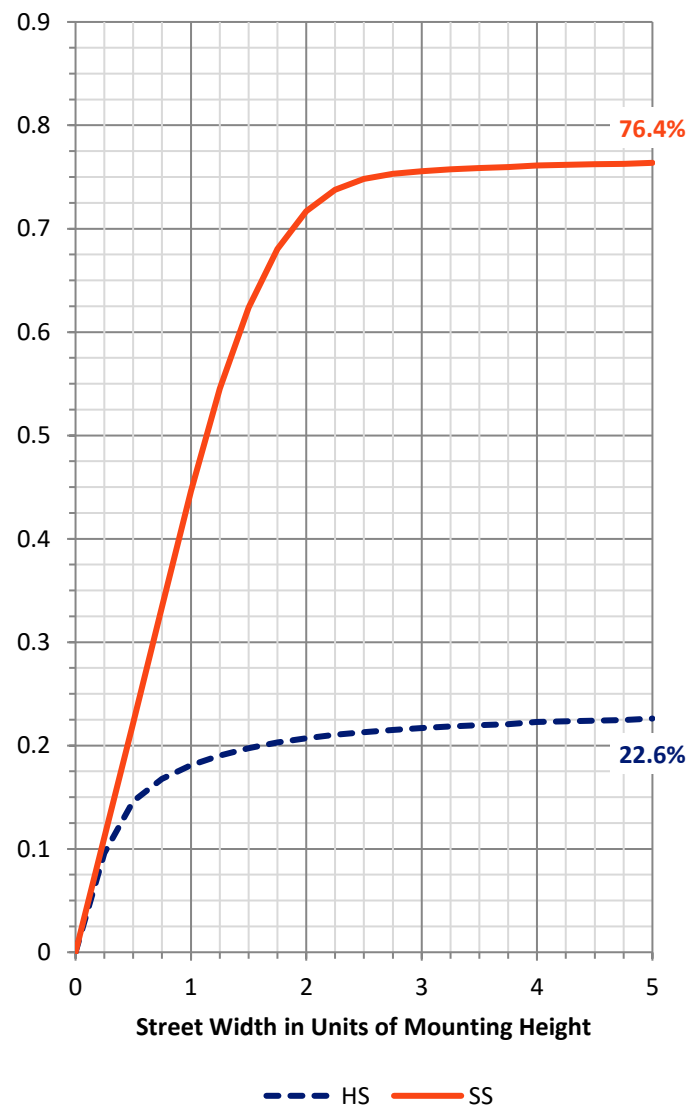
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.7	0.6	516.4
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	1699.6	0.2	1699.8
	% Fixture	76.7	0.0	76.7
Total	Lumens	2215.4	0.8	2216.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.5	1.2
10°-20°	79.0	3.6
20°-30°	135.9	6.1
30°-40°	220.9	10.0
40°-50°	356.3	16.1
50°-60°	531.2	24.0
60°-70°	598.3	27.0
70°-80°	230.7	10.4
80°-90°	35.7	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°	2215.4	100.0
0°-180°	2216.2	100.0

Coefficient of Utilization



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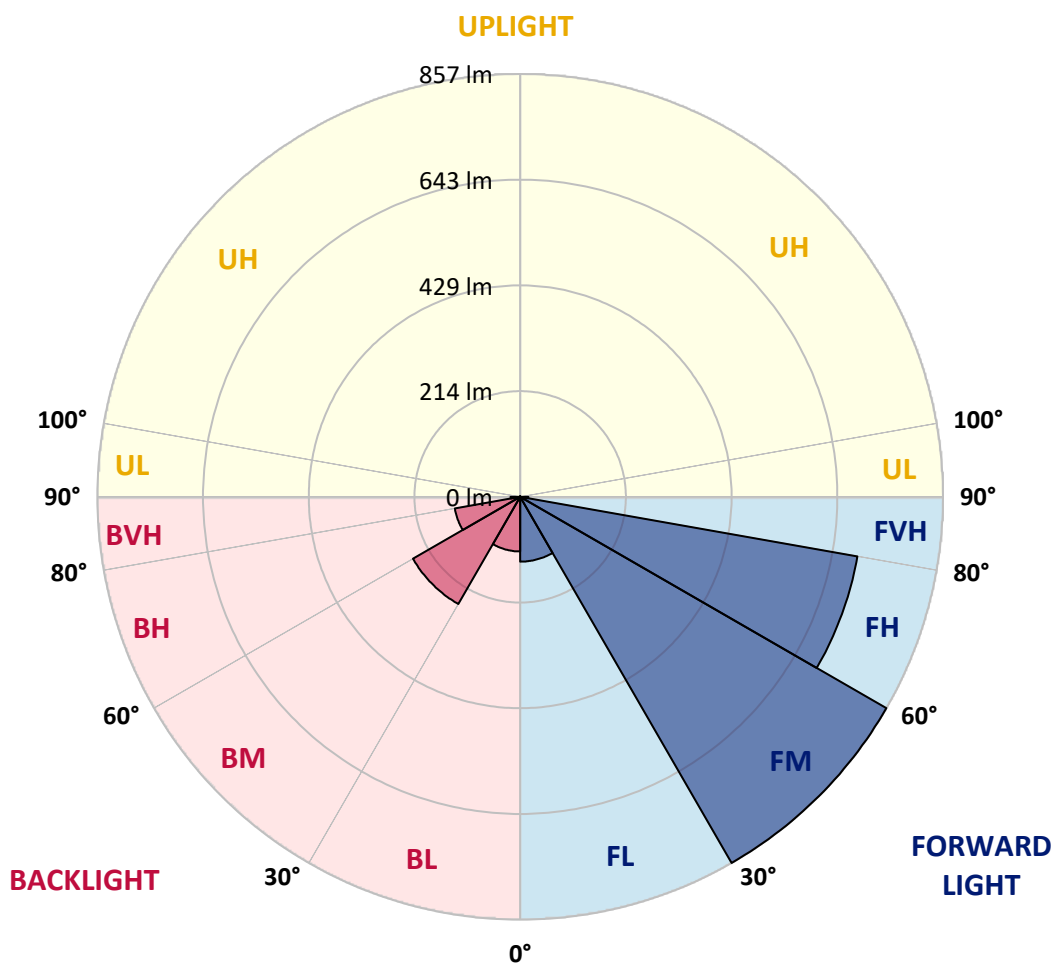
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.5	5.9			
FM	(30°-60°)	857.4	38.7			
FH	(60°-80°)	694.4	31.3			G1/1800
FVH	(80°-90°)	16.4	0.7			G1/100
BL	(0°-30°)	110.8	5.0	B1/500		
BM	(30°-60°)	251.0	11.3	B1/1000		
BH	(60°-80°)	134.6	6.1	B1/500		G1/500
BVH	(80°-90°)	19.3	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°	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7
2.5°	291.4	292.1	292.7	292.4	292.4	292.4	292.4	291.8	292.7	292.7	292.1
5°	286.6	286.9	287.3	287.9	288.6	289.2	289.5	289.5	289.8	289.5	288.9
7.5°	279.6	279.9	281.2	281.2	281.8	283.1	283.7	284.4	285.3	285.3	285.0
10°	277.3	277.3	277.3	276.4	277.0	277.3	278.3	278.3	280.9	282.1	282.8
12.5°	279.9	279.6	279.6	277.0	274.8	273.8	274.8	275.1	278.0	279.9	281.2
15°	285.7	285.7	285.0	281.2	276.7	273.1	272.8	272.8	275.1	278.0	280.2
17.5°	299.1	300.4	295.9	289.8	282.5	276.7	274.4	274.1	275.7	278.0	280.2
20°	324.8	324.5	317.8	306.8	294.0	284.4	278.9	278.3	278.0	279.2	281.8
22.5°	355.3	354.0	346.0	332.2	314.6	296.9	286.3	285.0	282.5	283.4	286.9
25°	388.1	388.4	378.4	360.5	338.3	317.1	301.1	299.8	294.3	293.7	297.5
27.5°	420.8	425.0	411.5	394.5	368.2	342.8	319.4	317.4	312.6	311.0	314.9
30°	468.6	467.0	450.3	428.2	401.9	370.1	347.6	344.1	334.5	336.7	340.9
32.5°	509.1	512.6	497.5	471.2	436.5	403.1	377.1	375.2	365.9	368.5	374.3
35°	558.5	566.8	546.9	514.5	481.1	446.8	415.7	410.5	403.1	408.3	412.8
37.5°	615.0	619.2	603.7	562.0	528.0	492.1	456.7	448.7	440.7	451.3	459.3
40°	668.9	675.6	655.7	620.4	581.0	546.6	508.1	506.5	487.9	499.4	520.3
42.5°	748.8	757.2	725.4	684.3	648.7	607.3	570.7	562.0	541.8	558.2	593.2
45°	804.7	804.4	782.9	748.8	727.0	686.9	637.5	627.2	605.4	627.2	674.0
47.5°	824.9	829.7	822.3	818.2	810.5	781.2	708.4	698.8	678.2	710.6	754.0
50°	854.7	853.5	853.5	879.1	901.3	895.2	791.5	777.7	756.2	795.0	857.3
52.5°	862.5	850.9	868.9	918.0	988.3	993.4	888.1	880.4	854.7	892.6	969.3
55°	840.9	838.1	866.6	937.9	1048.6	1085.2	1000.1	989.6	960.7	993.1	1090.3
57.5°	792.8	800.2	846.1	933.7	1090.3	1166.1	1123.1	1108.0	1066.6	1086.2	1210.4
60°	742.4	745.9	806.6	918.9	1101.6	1222.3	1252.1	1243.4	1172.5	1184.1	1299.3
62.5°	686.6	678.2	741.1	906.7	1089.1	1299.6	1377.3	1370.6	1286.8	1283.2	1362.5
65°	530.6	542.1	595.7	749.5	1003.4	1360.0	1526.5	1517.9	1414.2	1365.1	1355.8
67.5°	340.9	338.6	376.5	501.0	749.8	1236.1	1604.5	1614.2	1487.1	1402.0	1262.7
70°	122.3	125.8	139.9	227.6	411.2	823.6	1414.5	1462.3	1433.5	1333.0	1027.8
72.5°	74.5	74.5	84.7	102.4	166.6	390.6	1008.2	1102.9	1169.9	1098.4	759.1
75°	58.4	58.1	61.6	70.6	89.9	128.1	536.0	609.2	750.4	758.8	432.0
77.5°	46.2	45.9	49.4	53.6	67.1	67.7	171.1	222.8	344.4	324.2	154.4
80°	37.2	36.9	39.5	40.8	49.1	46.9	68.7	79.6	120.7	105.9	66.8
82.5°	33.7	33.7	36.3	31.1	34.0	33.1	42.7	45.6	60.7	62.9	40.1
85°	21.8	22.5	34.0	30.2	22.1	20.2	27.3	28.9	37.9	41.4	19.6
87.5°	10.3	11.2	26.0	25.0	14.8	10.9	15.4	16.4	20.5	25.4	11.6
90°	1.9	1.9	3.2	3.5	1.9	1.9	2.6	2.2	2.2	3.2	3.2
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
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°	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7	293.7
2.5°	293.0	292.4	292.7	293.0	293.4	294.3	294.7	294.7	294.7	294.3	295.0
5°	289.5	288.9	288.9	289.8	290.8	292.1	294.0	295.6	296.3	296.6	296.6
7.5°	285.7	285.0	285.3	286.9	288.6	289.5	291.4	292.4	295.0	295.0	295.6
10°	283.1	283.7	284.1	285.7	286.9	286.9	286.6	286.0	285.3	286.9	286.3
12.5°	281.5	282.5	282.1	284.1	284.7	282.1	278.3	273.1	272.5	273.1	273.8
15°	280.9	280.9	281.8	281.8	278.6	273.5	268.7	269.0	269.6	271.5	271.5
17.5°	280.9	281.2	281.8	279.6	273.8	269.3	268.3	267.4	263.8	262.9	261.9
20°	283.1	282.5	283.1	278.9	273.8	270.3	262.9	255.8	249.1	246.2	244.9
22.5°	288.6	287.6	287.3	283.1	276.7	264.8	250.4	239.4	227.9	224.0	222.8
25°	298.2	297.9	295.6	292.7	274.8	251.6	233.3	216.0	203.5	196.8	197.1
27.5°	315.2	315.2	313.9	301.1	264.8	235.3	210.6	192.9	180.1	173.6	172.7
30°	340.9	341.5	342.2	303.3	249.1	211.2	185.5	173.6	165.9	161.1	160.8
32.5°	372.6	376.2	372.0	300.8	227.6	182.0	165.9	161.8	157.9	154.7	154.4
35°	414.7	424.3	398.0	290.5	203.5	162.1	154.1	151.2	148.3	146.0	146.4
37.5°	471.2	480.5	414.7	273.1	172.7	150.9	147.3	142.8	138.3	133.5	132.9
40°	537.9	535.1	420.5	240.4	153.4	145.4	140.6	134.8	127.1	120.0	118.8
42.5°	604.7	585.5	415.7	200.0	140.9	140.6	133.8	126.5	118.8	112.7	112.7
45°	679.5	629.7	400.9	162.1	131.0	135.5	127.1	119.4	112.3	107.8	107.5
47.5°	750.1	671.2	376.5	135.1	121.0	128.7	122.0	114.9	108.2	104.3	103.4
50°	832.9	718.3	357.9	116.8	111.4	122.0	119.1	112.7	106.2	101.7	101.1
52.5°	916.7	764.2	343.8	104.3	102.7	116.8	117.8	113.9	107.2	98.5	97.9
55°	1004.3	821.7	315.5	94.4	95.0	113.0	119.4	116.5	111.7	97.6	96.9
57.5°	1077.8	874.6	266.1	87.6	88.9	110.1	120.0	114.6	109.1	98.2	97.3
60°	1135.3	910.9	195.2	82.2	83.5	106.9	117.2	107.8	100.8	98.2	96.6
62.5°	1152.9	912.2	129.7	75.7	79.3	101.4	112.0	104.3	96.0	97.3	96.6
65°	1108.6	864.1	92.8	69.7	75.7	95.0	109.8	100.8	93.7	98.9	98.2
67.5°	972.2	728.0	74.5	64.8	70.9	88.3	105.6	97.6	91.8	102.4	100.5
70°	757.5	522.2	63.2	60.0	65.8	81.8	99.8	94.0	89.2	99.5	96.9
72.5°	499.4	307.5	55.8	55.5	59.7	76.4	93.4	90.8	85.1	90.2	86.3
75°	260.6	142.5	48.5	50.4	53.0	71.6	87.6	85.1	78.6	80.6	79.3
77.5°	102.4	66.8	42.0	44.3	47.2	64.5	80.2	77.7	72.2	70.6	70.3
80°	56.2	44.9	35.0	37.9	39.8	58.1	72.5	69.7	63.9	62.9	61.9
82.5°	35.6	29.2	28.9	30.8	33.4	51.7	65.2	60.7	55.8	65.8	53.3
85°	16.7	17.3	20.5	23.1	26.0	44.0	56.8	52.0	47.2	45.9	40.8
87.5°	9.3	11.6	13.5	15.7	18.0	30.8	44.9	40.4	35.3	30.2	31.1
90°	2.2	2.2	3.9	3.5	3.9	4.5	22.1	19.9	17.7	8.3	5.5
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-T3-7030

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)