

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: P226477

Luminaire Tested: **IST-AF-350-LED-E1-T3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226477  
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-T3-7050  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

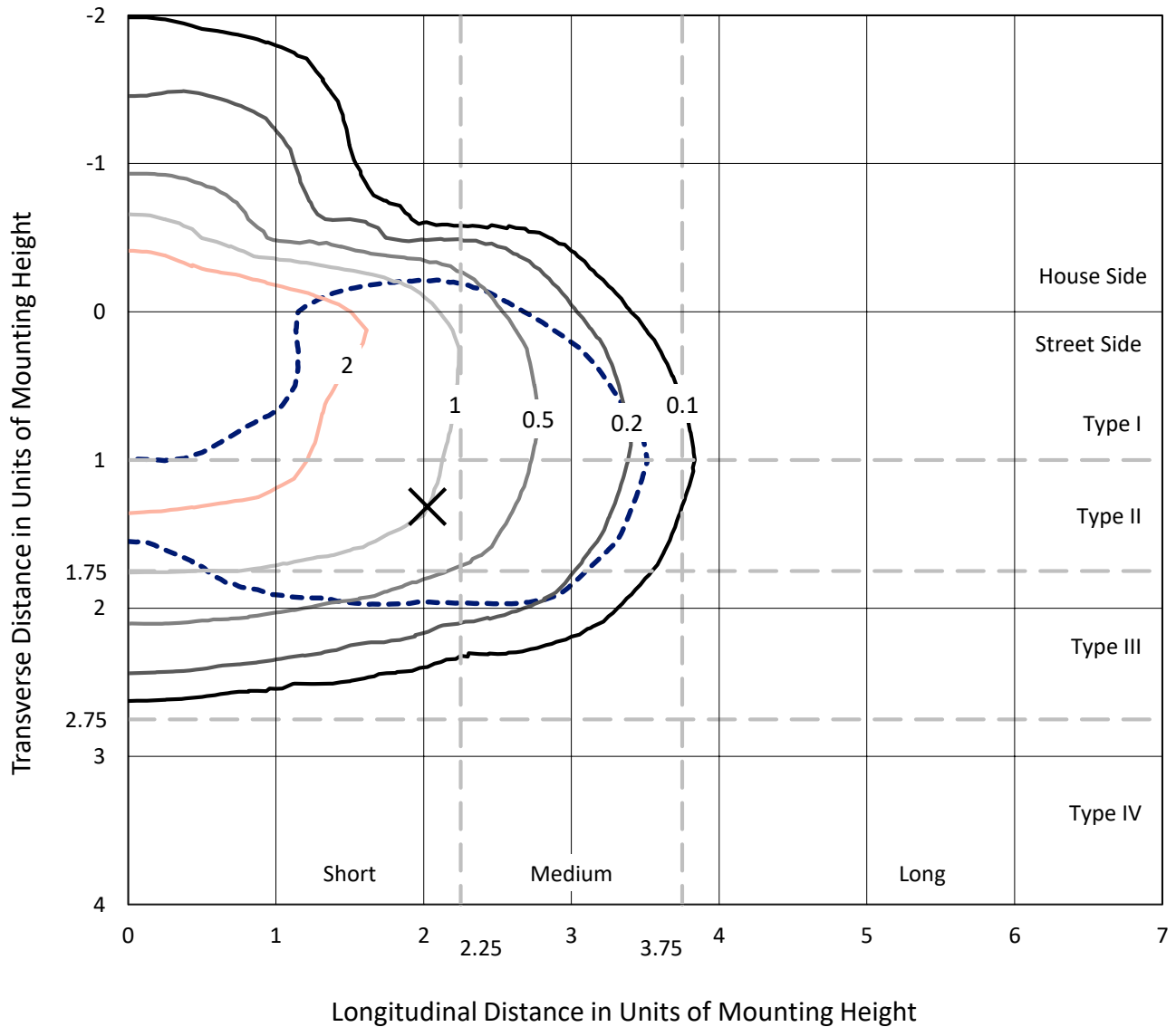
Lumens per Lamp: N/A  
Luminaire Lumens: 2503.6 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B1 - U1 - G1  
  
Input Watts (W): 20.09  
Input Voltage (V): 120  
Input Current (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

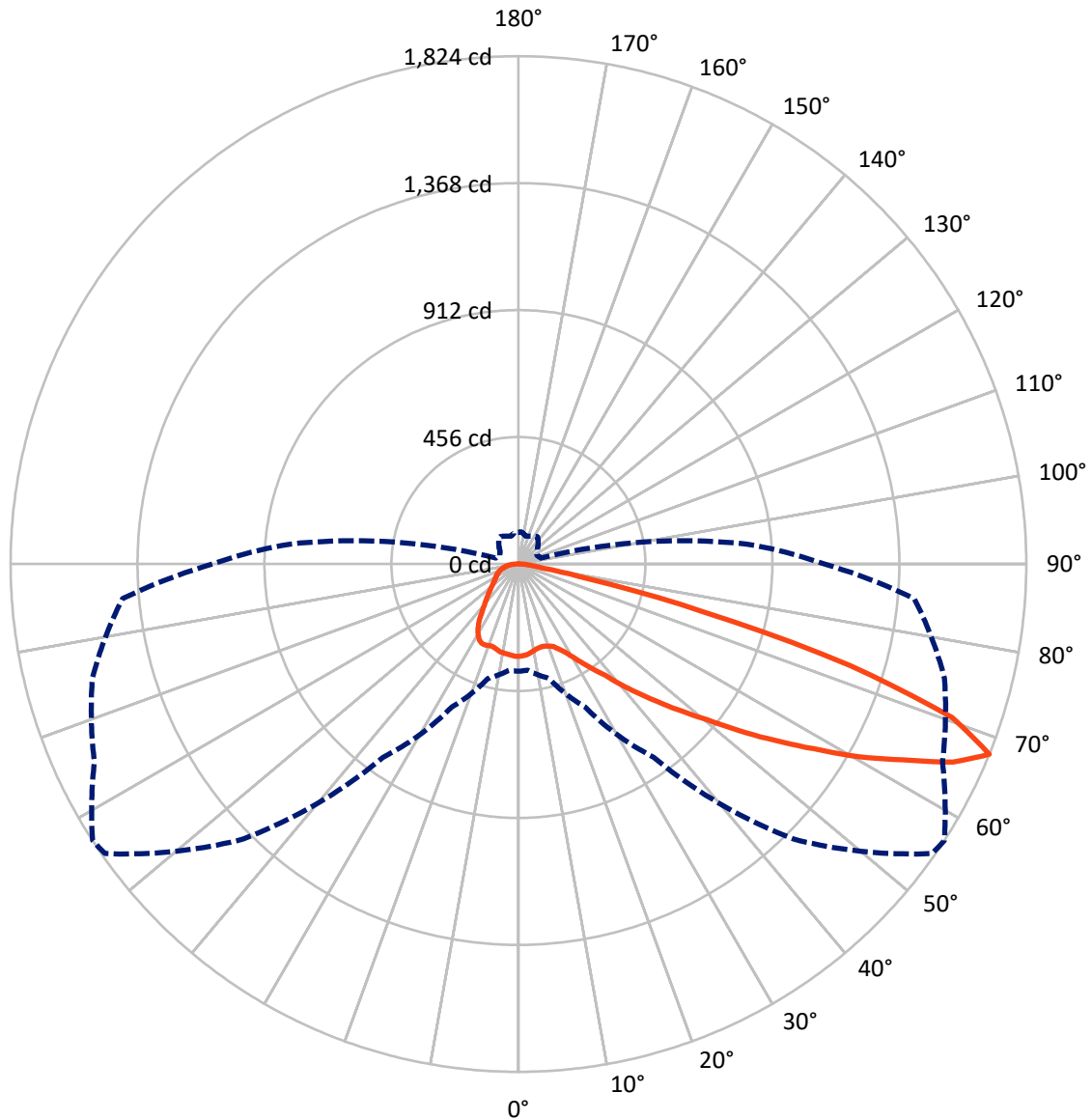
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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
<b>House Side</b>	Lumens	582.6	0.7	583.4
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	1920.1	0.2	1920.3
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	2502.7	0.9	2503.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.0	1.2
10°-20°	89.2	3.6
20°-30°	153.5	6.1
30°-40°	249.5	10.0
40°-50°	402.5	16.1
50°-60°	600.1	24.0
60°-70°	675.9	27.0
70°-80°	260.6	10.4
80°-90°	40.4	1.6
90°-100°	0.9	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°	2502.7	100.0
0°-180°	2503.6	100.0



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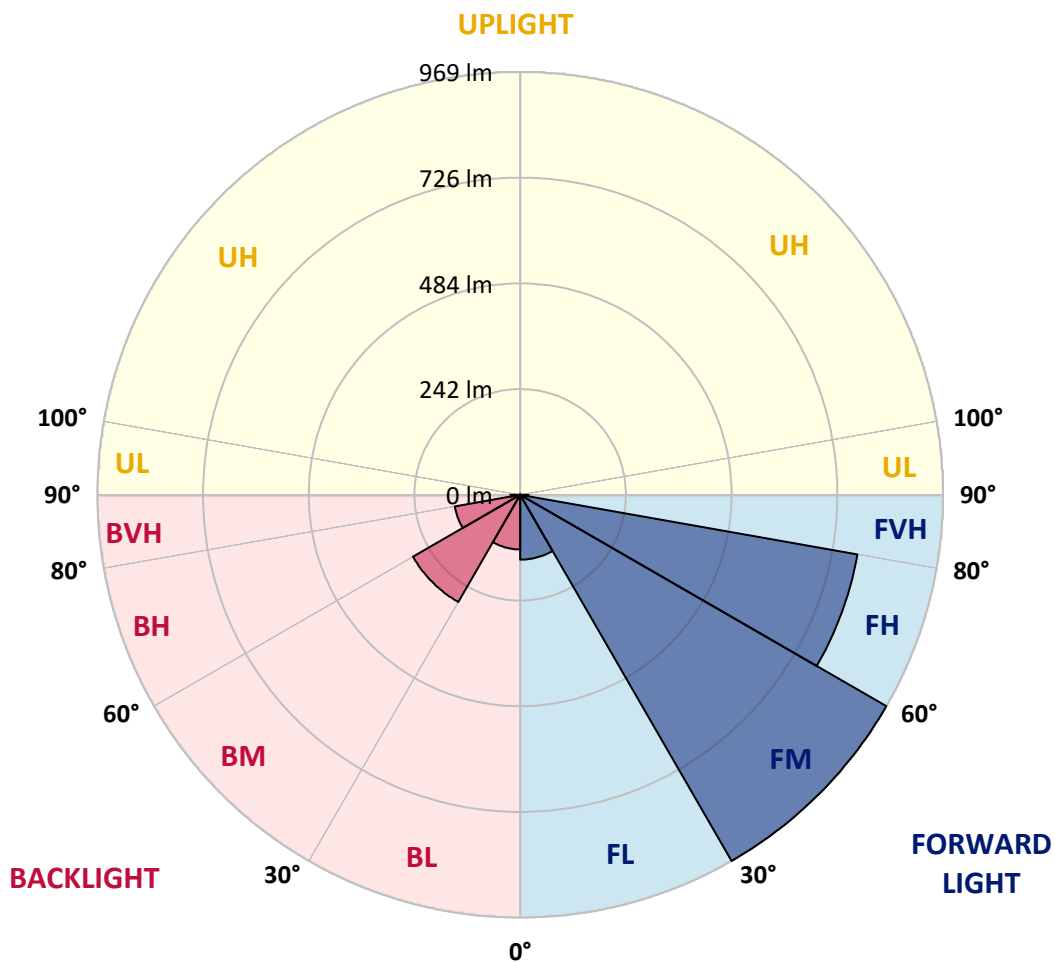
CATALOG NUMBER: IST-AF-350-LED-E1-T3-7050

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	148.5	5.9			
FM	(30°-60°)	968.6	38.7			
FH	(60°-80°)	784.4	31.3			G1/1800
FVH	(80°-90°)	18.5	0.7			G1/100
BL	(0°-30°)	125.2	5.0	B1/500		
BM	(30°-60°)	283.6	11.3	B1/1000		
BH	(60°-80°)	152.0	6.1	B1/500		G1/500
BVH	(80°-90°)	21.8	0.9			G1/100
UL	(90°-100°)	0.9	0.0		U1/10	
UH	(100°-180°)	0.7	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°	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8
2.5°	329.2	330.0	330.7	330.3	330.3	330.3	330.3	329.6	330.7	330.7	330.0
5°	323.8	324.2	324.5	325.3	326.0	326.7	327.1	327.1	327.4	327.1	326.3
7.5°	315.8	316.2	317.6	317.6	318.4	319.8	320.5	321.3	322.3	322.3	322.0
10°	313.3	313.3	313.3	312.2	312.9	313.3	314.4	314.4	317.3	318.7	319.4
12.5°	316.2	315.8	315.8	312.9	310.4	309.3	310.4	310.7	314.0	316.2	317.6
15°	322.7	322.7	322.0	317.6	312.6	308.6	308.2	308.2	310.7	314.0	316.5
17.5°	337.9	339.4	334.3	327.4	319.1	312.6	310.0	309.7	311.5	314.0	316.5
20°	366.9	366.6	359.0	346.6	332.1	321.3	315.1	314.4	314.0	315.5	318.4
22.5°	401.4	399.9	390.9	375.3	355.3	335.4	323.4	322.0	319.1	320.2	324.2
25°	438.4	438.7	427.5	407.2	382.2	358.2	340.1	338.7	332.5	331.8	336.1
27.5°	475.4	480.1	464.9	445.6	415.9	387.3	360.8	358.6	353.2	351.4	355.7
30°	529.4	527.6	508.7	483.7	454.0	418.1	392.7	388.7	377.8	380.4	385.1
32.5°	575.1	579.1	562.0	532.3	493.1	455.4	426.1	423.9	413.4	416.3	422.8
35°	630.9	640.3	617.9	581.2	543.5	504.7	469.6	463.8	455.4	461.2	466.3
37.5°	694.7	699.5	682.0	634.9	596.5	555.9	516.0	506.9	497.8	509.8	518.9
40°	755.7	763.3	740.8	700.9	656.3	617.5	574.0	572.2	551.1	564.2	587.8
42.5°	845.9	855.4	819.5	773.1	732.8	686.0	644.7	634.9	612.1	630.6	670.1
45°	909.0	908.7	884.4	845.9	821.3	776.0	720.1	708.5	683.9	708.5	761.5
47.5°	931.9	937.3	929.0	924.3	915.6	882.6	800.3	789.4	766.2	802.8	851.7
50°	965.6	964.1	964.1	993.2	1018.2	1011.3	894.2	878.6	854.3	898.2	968.5
52.5°	974.3	961.2	981.6	1037.0	1116.4	1122.2	1003.3	994.6	965.6	1008.4	1095.0
55°	950.0	946.7	979.0	1059.5	1184.6	1225.9	1129.9	1117.9	1085.3	1121.9	1231.7
57.5°	895.6	904.0	955.8	1054.8	1231.7	1317.3	1268.7	1251.7	1204.9	1227.0	1367.4
60°	838.7	842.7	911.2	1038.1	1244.4	1380.8	1414.5	1404.7	1324.6	1337.6	1467.8
62.5°	775.6	766.2	837.2	1024.3	1230.3	1468.2	1555.9	1548.3	1453.7	1449.7	1539.2
65°	599.4	612.4	673.0	846.7	1133.5	1536.3	1724.5	1714.7	1597.6	1542.1	1531.6
67.5°	385.1	382.5	425.3	566.0	847.0	1396.4	1812.6	1823.5	1679.9	1583.8	1426.5
70°	138.1	142.1	158.1	257.1	464.5	930.4	1598.0	1652.0	1619.4	1505.9	1161.0
72.5°	84.1	84.1	95.7	115.7	188.2	441.3	1138.9	1245.9	1321.7	1240.8	857.5
75°	66.0	65.6	69.6	79.8	101.5	144.7	605.5	688.2	847.8	857.2	488.1
77.5°	52.2	51.9	55.8	60.6	75.8	76.5	193.3	251.6	389.1	366.2	174.4
80°	42.1	41.7	44.6	46.0	55.5	52.9	77.6	89.9	136.3	119.7	75.4
82.5°	38.1	38.1	41.0	35.2	38.4	37.3	48.2	51.5	68.5	71.1	45.3
85°	24.7	25.4	38.4	34.1	25.0	22.8	30.8	32.6	42.8	46.8	22.1
87.5°	11.6	12.7	29.4	28.3	16.7	12.3	17.4	18.5	23.2	28.6	13.1
90°	2.2	2.2	3.6	4.0	2.2	2.2	2.9	2.5	2.5	3.6	3.6
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°	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8	331.8
2.5°	331.1	330.3	330.7	331.1	331.4	332.5	332.9	332.9	332.9	332.5	333.2
5°	327.1	326.3	326.3	327.4	328.5	330.0	332.1	334.0	334.7	335.0	335.0
7.5°	322.7	322.0	322.3	324.2	326.0	327.1	329.2	330.3	333.2	333.2	334.0
10°	319.8	320.5	320.9	322.7	324.2	324.2	323.8	323.1	322.3	324.2	323.4
12.5°	318.0	319.1	318.7	320.9	321.6	318.7	314.4	308.6	307.8	308.6	309.3
15°	317.3	317.3	318.4	318.4	314.7	308.9	303.5	303.9	304.6	306.8	306.8
17.5°	317.3	317.6	318.4	315.8	309.3	304.2	303.1	302.0	298.1	297.0	295.9
20°	319.8	319.1	319.8	315.1	309.3	305.3	297.0	289.0	281.4	278.1	276.7
22.5°	326.0	324.9	324.5	319.8	312.6	299.1	282.8	270.5	257.4	253.1	251.6
25°	336.9	336.5	334.0	330.7	310.4	284.3	263.6	244.0	229.9	222.3	222.6
27.5°	356.1	356.1	354.6	340.1	299.1	265.8	237.9	217.9	203.4	196.2	195.1
30°	385.1	385.8	386.5	342.7	281.4	238.6	209.6	196.2	187.5	182.0	181.7
32.5°	421.0	425.0	420.3	339.8	257.1	205.6	187.5	182.7	178.4	174.8	174.4
35°	468.5	479.4	449.6	328.2	229.9	183.1	174.0	170.8	167.5	165.0	165.3
37.5°	532.3	542.8	468.5	308.6	195.1	170.4	166.4	161.4	156.3	150.8	150.1
40°	607.7	604.5	475.0	271.6	173.3	164.3	158.8	152.3	143.6	135.6	134.2
42.5°	683.1	661.4	469.6	225.9	159.2	158.8	151.2	142.9	134.2	127.3	127.3
45°	767.6	711.4	452.9	183.1	147.9	153.0	143.6	134.9	126.9	121.8	121.5
47.5°	847.4	758.2	425.3	152.7	136.7	145.4	137.8	129.8	122.2	117.8	116.8
50°	940.9	811.5	404.3	132.0	125.8	137.8	134.5	127.3	120.0	114.9	114.2
52.5°	1035.6	863.3	388.3	117.8	116.0	132.0	133.1	128.7	121.1	111.3	110.6
55°	1134.6	928.3	356.4	106.6	107.3	127.6	134.9	131.6	126.2	110.2	109.5
57.5°	1217.6	988.1	300.6	99.0	100.4	124.4	135.6	129.4	123.3	111.0	109.9
60°	1282.5	1029.1	220.5	92.8	94.3	120.7	132.3	121.8	113.9	111.0	109.1
62.5°	1302.5	1030.5	146.5	85.6	89.6	114.6	126.5	117.8	108.4	109.9	109.1
65°	1252.4	976.1	104.8	78.7	85.6	107.3	124.0	113.9	105.9	111.7	111.0
67.5°	1098.3	822.4	84.1	73.2	80.1	99.7	119.3	110.2	103.7	115.7	113.5
70°	855.7	589.9	71.4	67.8	74.3	92.5	112.8	106.2	100.8	112.4	109.5
72.5°	564.2	347.4	63.1	62.7	67.4	86.3	105.5	102.6	96.1	101.9	97.5
75°	294.4	161.0	54.8	56.9	59.8	80.9	99.0	96.1	88.8	91.0	89.6
77.5°	115.7	75.4	47.5	50.0	53.3	72.9	90.6	87.7	81.6	79.8	79.4
80°	63.5	50.8	39.5	42.8	45.0	65.6	81.9	78.7	72.2	71.1	70.0
82.5°	40.2	33.0	32.6	34.8	37.7	58.4	73.6	68.5	63.1	74.3	60.2
85°	18.9	19.6	23.2	26.1	29.4	49.7	64.2	58.7	53.3	51.9	46.0
87.5°	10.5	13.1	15.2	17.8	20.3	34.8	50.8	45.7	39.9	34.1	35.2
90°	2.5	2.5	4.4	4.0	4.4	5.1	25.0	22.5	19.9	9.4	6.2
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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CATALOG NUMBER: IST-AF-350-LED-E1-T3-7050

**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)