

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: P226480

Luminaire Tested: **IST-AF-800-LED-E1-T3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226480  
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-800-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: 5133.4 lumens  
Efficiency: N/A  
Efficacy: 118.0 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

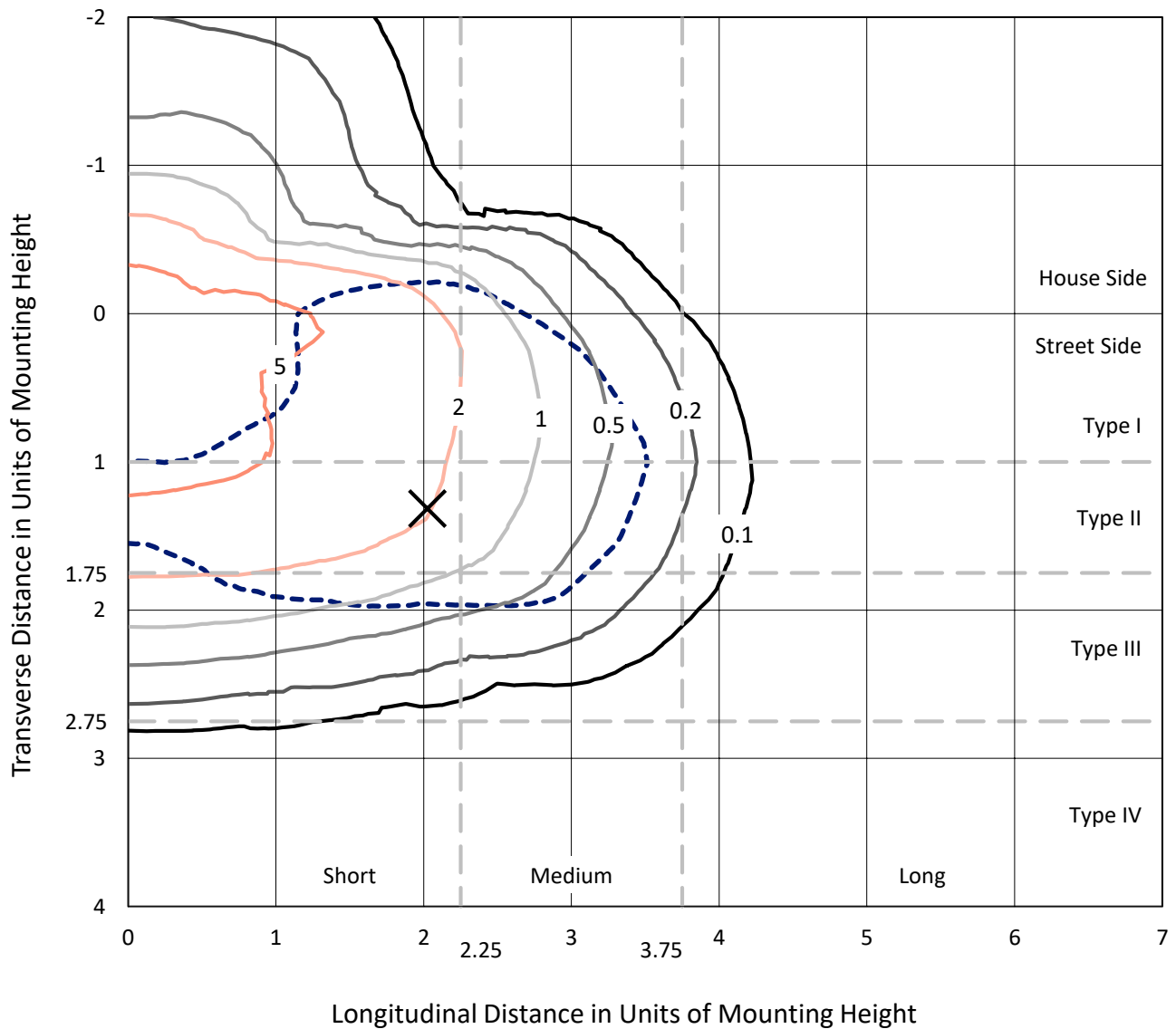
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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 CATALOG NUMBER: IST-AF-800-LED-E1-T3-7050

### Iso-Footcandle Lines of Horizontal Illumination

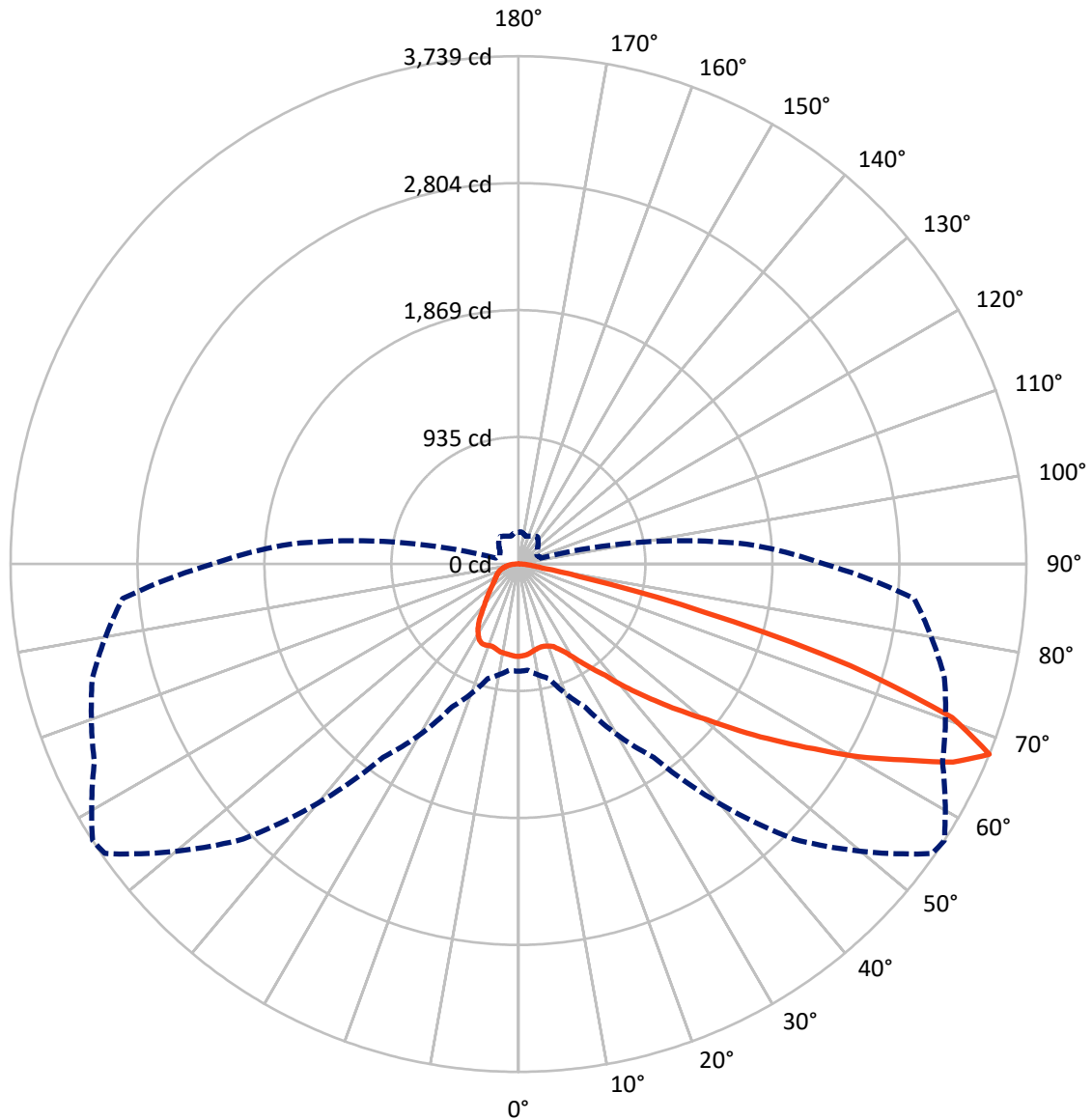
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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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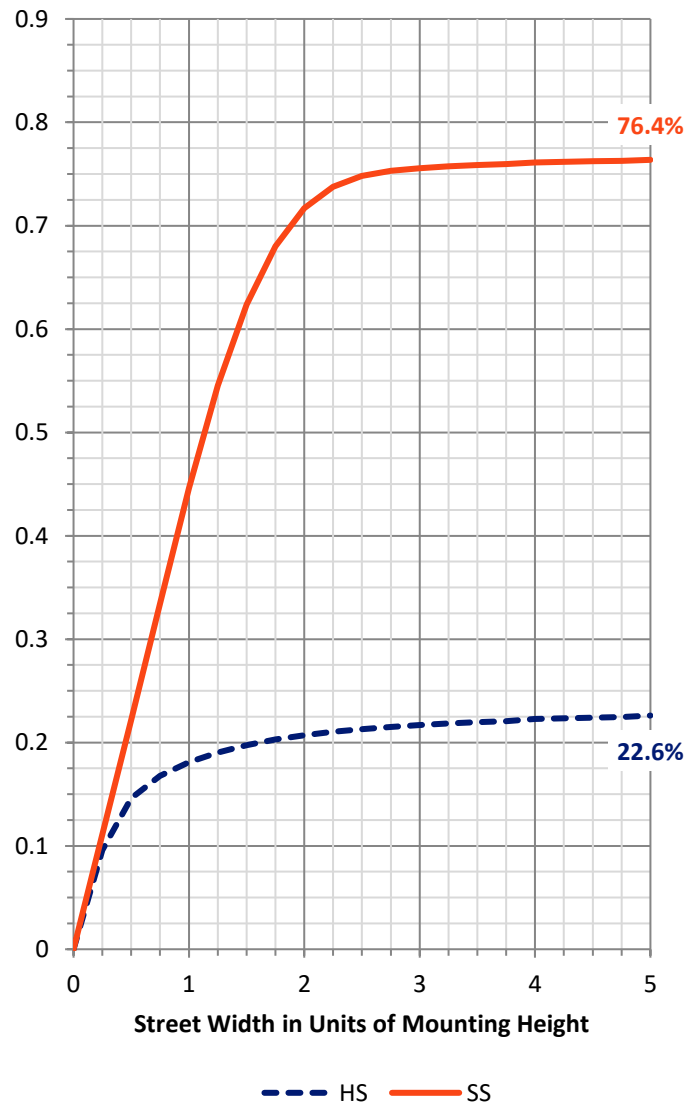
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1194.6	1.5	1196.1
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	3936.9	0.4	3937.3
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	5131.5	1.9	5133.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	1.2
10°-20°	182.9	3.6
20°-30°	314.7	6.1
30°-40°	511.7	10.0
40°-50°	825.3	16.1
50°-60°	1230.5	24.0
60°-70°	1385.8	27.0
70°-80°	534.3	10.4
80°-90°	82.8	1.6
90°-100°	1.9	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°	5131.5	100.0
0°-180°	5133.4	100.0

**Coefficient of Utilization**



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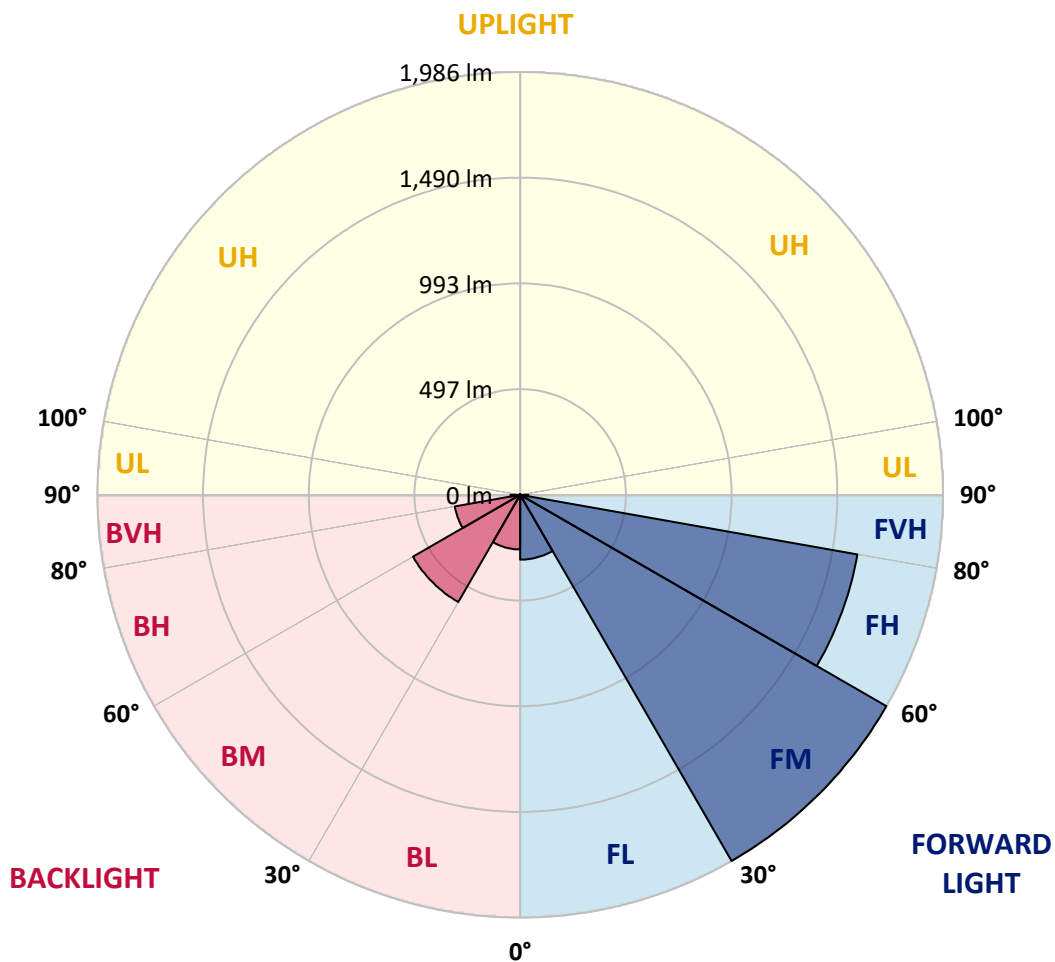
CATALOG NUMBER: IST-AF-800-LED-E1-T3-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.5	5.9			
FM	(30°-60°)	1986.0	38.7			
FH	(60°-80°)	1608.4	31.3			G1/1800
FVH	(80°-90°)	38.0	0.7			G1/100
BL	(0°-30°)	256.7	5.0	B1/500		
BM	(30°-60°)	581.4	11.3	B1/1000		
BH	(60°-80°)	311.7	6.1	B1/500		G1/500
BVH	(80°-90°)	44.8	0.9			G1/100
UL	(90°-100°)	1.9	0.0		U1/10	
UH	(100°-180°)	1.5	0.0		U1/10	

**BUG Rating: B1-U1-G1**

Type III Short





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CATALOG NUMBER: IST-AF-800-LED-E1-T3-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3
2.5°	675.1	676.6	678.0	677.3	677.3	677.3	677.3	675.8	678.0	678.0	676.6
5°	663.9	664.7	665.4	666.9	668.4	669.9	670.6	670.6	671.4	670.6	669.1
7.5°	647.6	648.3	651.3	651.3	652.8	655.7	657.2	658.7	660.9	660.9	660.2
10°	642.4	642.4	642.4	640.1	641.6	642.4	644.6	644.6	650.5	653.5	655.0
12.5°	648.3	647.6	647.6	641.6	636.4	634.2	636.4	637.2	643.8	648.3	651.3
15°	661.7	661.7	660.2	651.3	640.9	632.7	632.0	632.0	637.2	643.8	649.1
17.5°	692.9	695.9	685.5	671.4	654.3	640.9	635.7	634.9	638.6	643.8	649.1
20°	752.4	751.6	736.0	710.8	681.0	658.7	646.1	644.6	643.8	646.8	652.8
22.5°	823.0	820.0	801.5	769.5	728.6	687.7	663.2	660.2	654.3	656.5	664.7
25°	898.9	899.6	876.6	834.9	783.6	734.6	697.4	694.4	681.8	680.3	689.2
27.5°	974.7	984.4	953.1	913.7	852.8	794.0	739.8	735.3	724.1	720.4	729.3
30°	1085.5	1081.8	1043.1	991.8	930.8	857.2	805.2	797.0	774.7	779.9	789.6
32.5°	1179.1	1187.3	1152.4	1091.4	1011.1	933.8	873.6	869.1	847.6	853.5	866.9
35°	1293.6	1313.0	1266.9	1191.8	1114.5	1034.9	962.8	950.9	933.8	945.7	956.1
37.5°	1424.5	1434.2	1398.5	1301.8	1223.0	1139.7	1058.0	1039.4	1020.8	1045.3	1063.9
40°	1549.4	1565.0	1518.9	1437.1	1345.7	1266.1	1176.9	1173.2	1130.1	1156.8	1205.2
42.5°	1734.5	1753.8	1680.2	1585.1	1502.6	1406.6	1321.9	1301.8	1255.0	1292.9	1373.9
45°	1863.9	1863.1	1813.3	1734.5	1684.0	1591.0	1476.5	1452.7	1402.2	1452.7	1561.3
47.5°	1910.7	1921.9	1904.8	1895.1	1877.3	1809.6	1640.8	1618.5	1571.0	1646.0	1746.4
50°	1979.9	1976.9	1976.9	2036.4	2087.7	2073.5	1833.4	1801.4	1751.6	1841.6	1985.8
52.5°	1997.7	1970.9	2012.6	2126.3	2289.1	2301.0	2057.2	2039.3	1979.9	2067.6	2245.3
55°	1947.9	1941.2	2007.4	2172.4	2428.9	2513.7	2316.7	2292.1	2225.2	2300.3	2525.6
57.5°	1836.4	1853.5	1959.8	2162.8	2525.6	2701.0	2601.4	2566.5	2470.6	2515.9	2803.6
60°	1719.7	1727.8	1868.3	2128.6	2551.6	2831.1	2900.3	2880.2	2715.9	2742.7	3009.6
62.5°	1590.3	1571.0	1716.7	2100.3	2522.6	3010.3	3190.2	3174.6	2980.6	2972.4	3156.0
65°	1229.0	1255.7	1379.9	1736.0	2324.1	3150.1	3536.0	3515.9	3275.7	3162.0	3140.4
67.5°	789.6	784.4	872.1	1160.6	1736.7	2863.1	3716.6	3738.9	3444.5	3247.5	2924.8
70°	283.3	291.4	324.2	527.1	952.4	1907.7	3276.5	3387.3	3320.3	3087.6	2380.6
72.5°	172.5	172.5	196.3	237.2	385.9	904.8	2335.2	2554.6	2710.0	2544.2	1758.3
75°	135.3	134.6	142.7	163.6	208.2	296.6	1241.6	1411.1	1738.2	1757.6	1000.7
77.5°	107.1	106.3	114.5	124.2	155.4	156.9	396.3	516.0	797.7	750.9	357.6
80°	86.2	85.5	91.4	94.4	113.8	108.5	159.1	184.4	279.5	245.3	154.6
82.5°	78.1	78.1	84.0	72.1	78.8	76.6	98.9	105.6	140.5	145.7	92.9
85°	50.6	52.0	78.8	69.9	51.3	46.8	63.2	66.9	87.7	95.9	45.4
87.5°	23.8	26.0	60.2	58.0	34.2	25.3	35.7	37.9	47.6	58.7	26.8
90°	4.5	4.5	7.4	8.2	4.5	4.5	5.9	5.2	5.2	7.4	7.4
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-800-LED-E1-T3-7050

**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°	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3	680.3
2.5°	678.8	677.3	678.0	678.8	679.5	681.8	682.5	682.5	682.5	681.8	683.3
5°	670.6	669.1	669.1	671.4	673.6	676.6	681.0	684.7	686.2	687.0	687.0
7.5°	661.7	660.2	660.9	664.7	668.4	670.6	675.1	677.3	683.3	683.3	684.7
10°	655.7	657.2	658.0	661.7	664.7	664.7	663.9	662.4	660.9	664.7	663.2
12.5°	652.0	654.3	653.5	658.0	659.5	653.5	644.6	632.7	631.2	632.7	634.2
15°	650.5	650.5	652.8	652.8	645.3	633.4	622.3	623.0	624.5	629.0	629.0
17.5°	650.5	651.3	652.8	647.6	634.2	623.8	621.5	619.3	611.1	608.9	606.7
20°	655.7	654.3	655.7	646.1	634.2	626.0	608.9	592.5	576.9	570.2	567.3
22.5°	668.4	666.2	665.4	655.7	640.9	613.4	579.9	554.6	527.9	518.9	516.0
25°	690.7	689.9	684.7	678.0	636.4	582.9	540.5	500.4	471.4	455.7	456.5
27.5°	730.1	730.1	727.1	697.4	613.4	545.0	487.7	446.8	417.1	402.2	400.0
30°	789.6	791.1	792.5	702.6	576.9	489.2	429.7	402.2	384.4	373.2	372.5
32.5°	863.2	871.3	861.7	696.6	527.1	421.5	384.4	374.7	365.8	358.4	357.6
35°	960.6	982.9	921.9	672.8	471.4	375.5	356.9	350.2	343.5	338.3	339.0
37.5°	1091.4	1113.0	960.6	632.7	400.0	349.4	341.3	330.8	320.4	309.3	307.8
40°	1246.1	1239.4	973.9	556.9	355.4	336.8	325.6	312.3	294.4	278.1	275.1
42.5°	1400.7	1356.1	962.8	463.2	326.4	325.6	310.0	292.9	275.1	261.0	261.0
45°	1573.9	1458.7	928.6	375.5	303.3	313.7	294.4	276.6	260.2	249.8	249.1
47.5°	1737.5	1554.6	872.1	313.0	280.3	298.1	282.5	266.2	250.5	241.6	239.4
50°	1929.3	1663.9	829.0	270.6	258.0	282.5	275.8	261.0	246.1	235.7	234.2
52.5°	2123.4	1770.2	796.3	241.6	237.9	270.6	272.9	263.9	248.3	228.2	226.8
55°	2326.3	1903.3	730.8	218.6	220.1	261.7	276.6	269.9	258.7	226.0	224.5
57.5°	2496.6	2026.0	616.3	203.0	205.9	255.0	278.1	265.4	252.8	227.5	225.3
60°	2629.7	2110.0	452.0	190.3	193.3	247.6	271.4	249.8	233.5	227.5	223.8
62.5°	2670.6	2112.9	300.4	175.5	183.6	234.9	259.5	241.6	222.3	225.3	223.8
65°	2568.0	2001.4	214.9	161.3	175.5	220.1	254.3	233.5	217.1	229.0	227.5
67.5°	2252.0	1686.2	172.5	150.2	164.3	204.5	244.6	226.0	212.6	237.2	232.7
70°	1754.6	1209.6	146.5	139.0	152.4	189.6	231.2	217.8	206.7	230.5	224.5
72.5°	1156.8	712.2	129.4	128.6	138.3	176.9	216.4	210.4	197.0	208.9	200.0
75°	603.7	330.1	112.3	116.7	122.7	165.8	203.0	197.0	182.2	186.6	183.6
77.5°	237.2	154.6	97.4	102.6	109.3	149.4	185.9	179.9	167.3	163.6	162.8
80°	130.1	104.1	81.0	87.7	92.2	134.6	168.0	161.3	148.0	145.7	143.5
82.5°	82.5	67.7	66.9	71.4	77.3	119.7	150.9	140.5	129.4	152.4	123.4
85°	38.7	40.1	47.6	53.5	60.2	101.9	131.6	120.4	109.3	106.3	94.4
87.5°	21.6	26.8	31.2	36.4	41.6	71.4	104.1	93.7	81.8	69.9	72.1
90°	5.2	5.2	8.9	8.2	8.9	10.4	51.3	46.1	40.9	19.3	12.6
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



REPORT NUMBER: P226480

CATALOG NUMBER: IST-AF-800-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)