

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: P226488

Luminaire Tested: **IST-AF-1000-LED-E1-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226488  
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-1000-LED-E1-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6207.1 lumens  
Efficiency: N/A  
Efficacy: 113.7 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 - G2

Input Watts (W): 54.6  
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

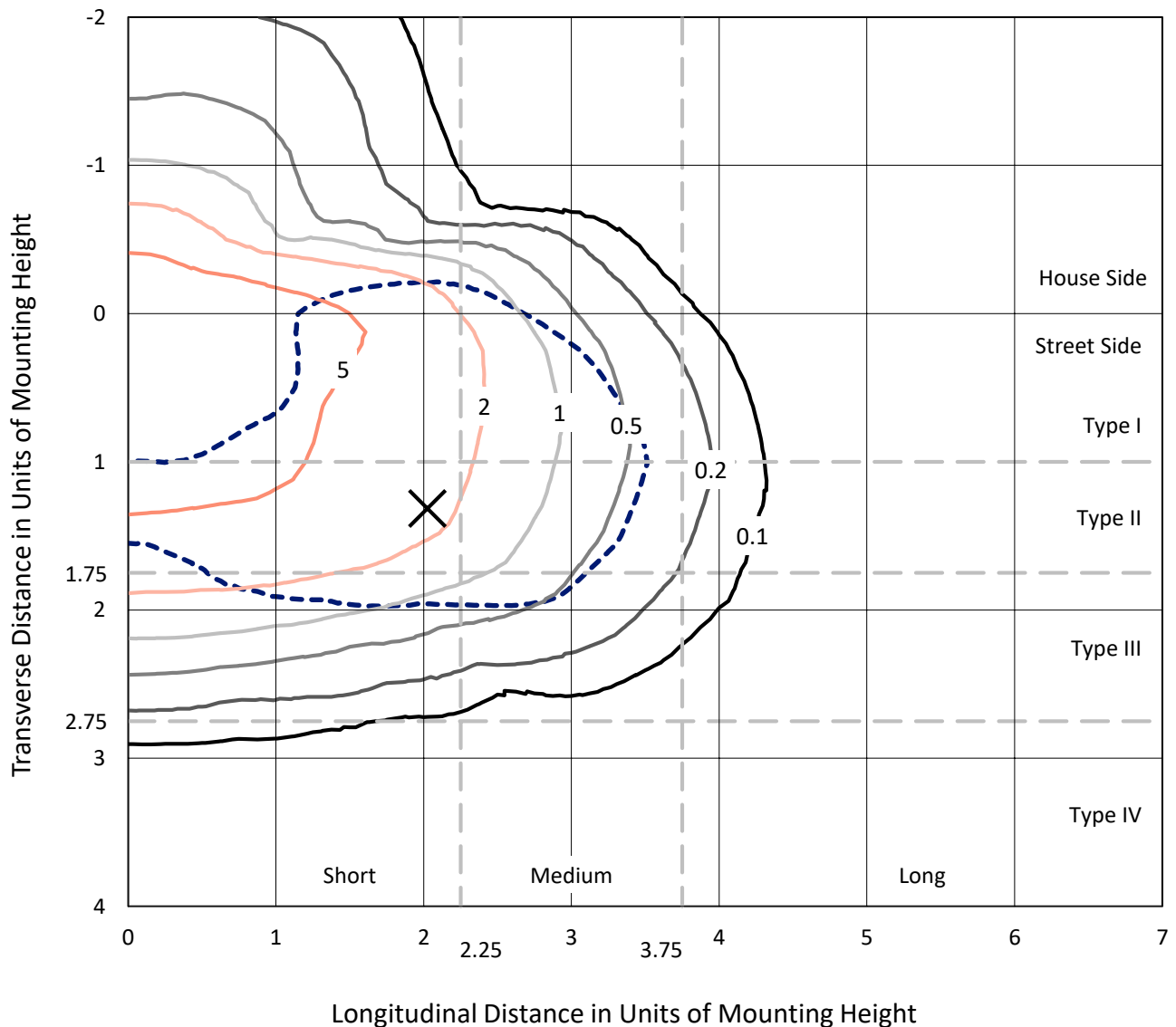


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

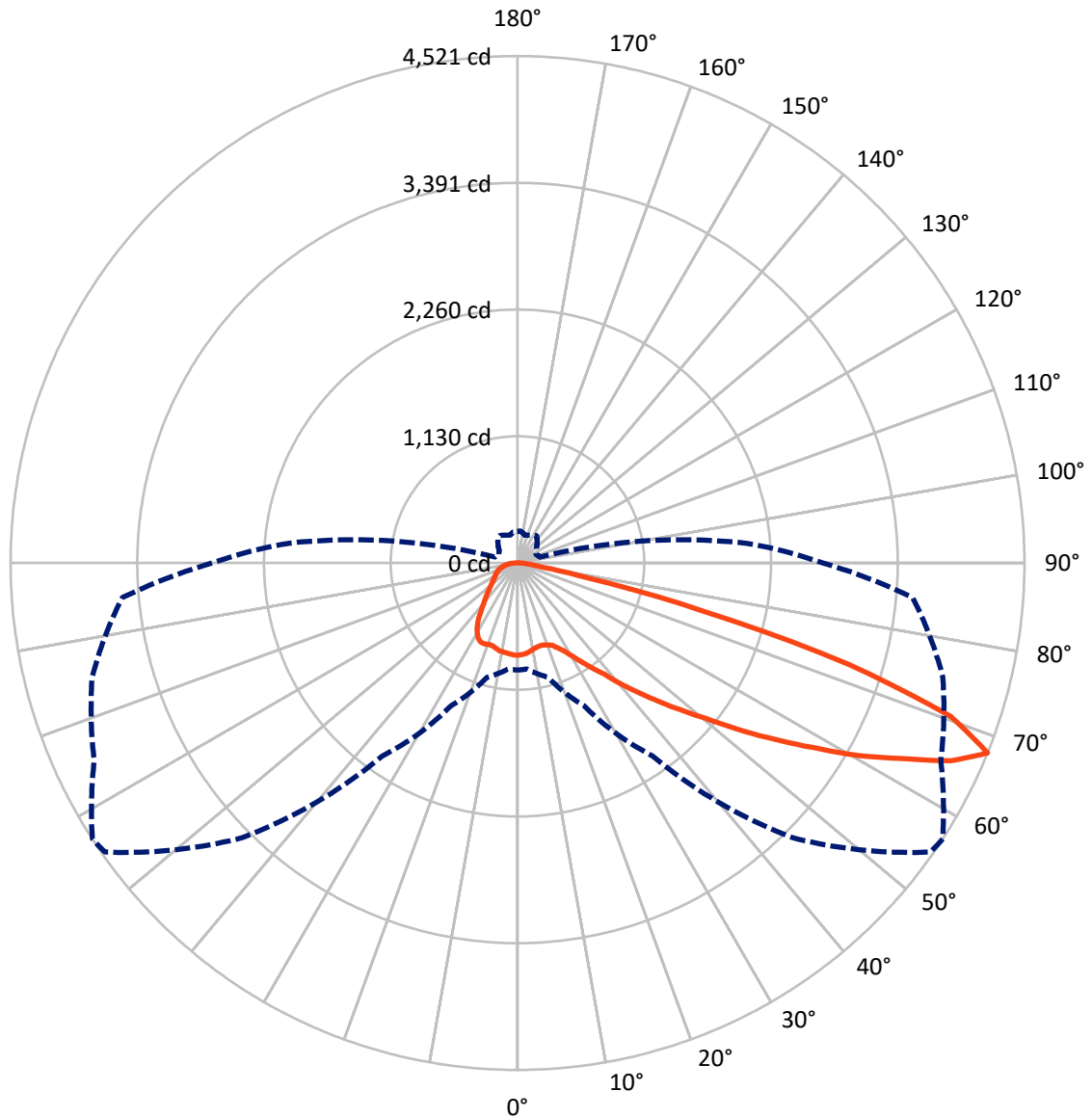


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - Cutoff

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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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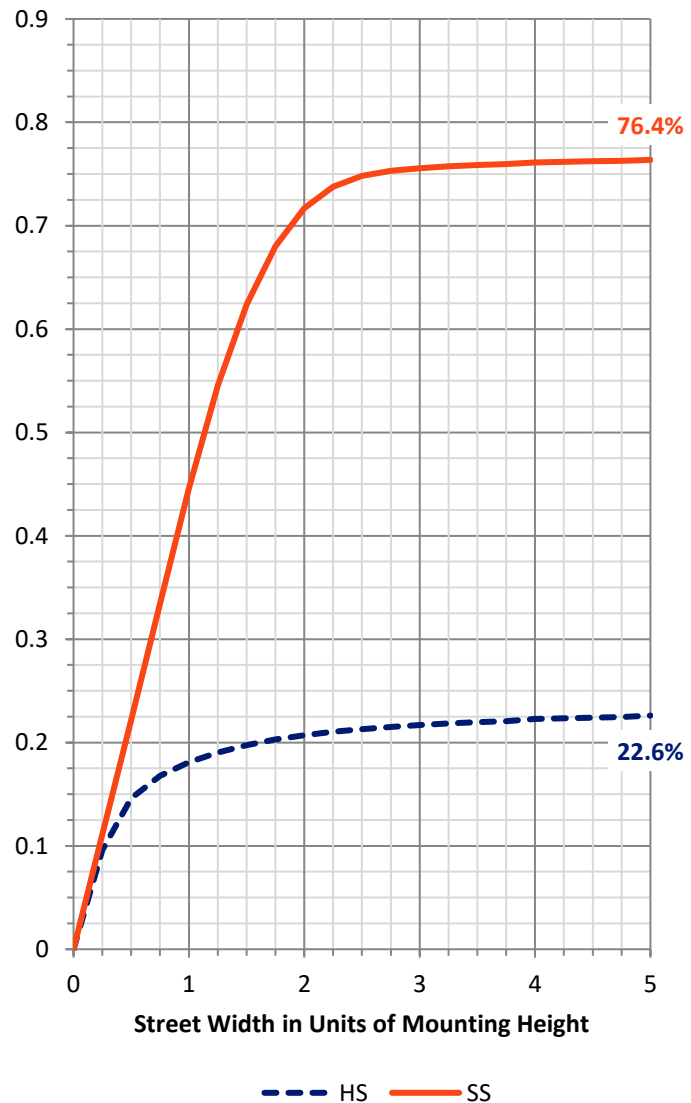
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1444.5	1.8	1446.3
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	4760.3	0.5	4760.8
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	6204.7	2.3	6207.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.9	1.2
10°-20°	221.1	3.6
20°-30°	380.5	6.1
30°-40°	618.7	10.0
40°-50°	998.0	16.1
50°-60°	1487.8	24.0
60°-70°	1675.6	27.0
70°-80°	646.0	10.4
80°-90°	100.1	1.6
90°-100°	2.3	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°	6204.7	100.0
0°-180°	6207.1	100.0



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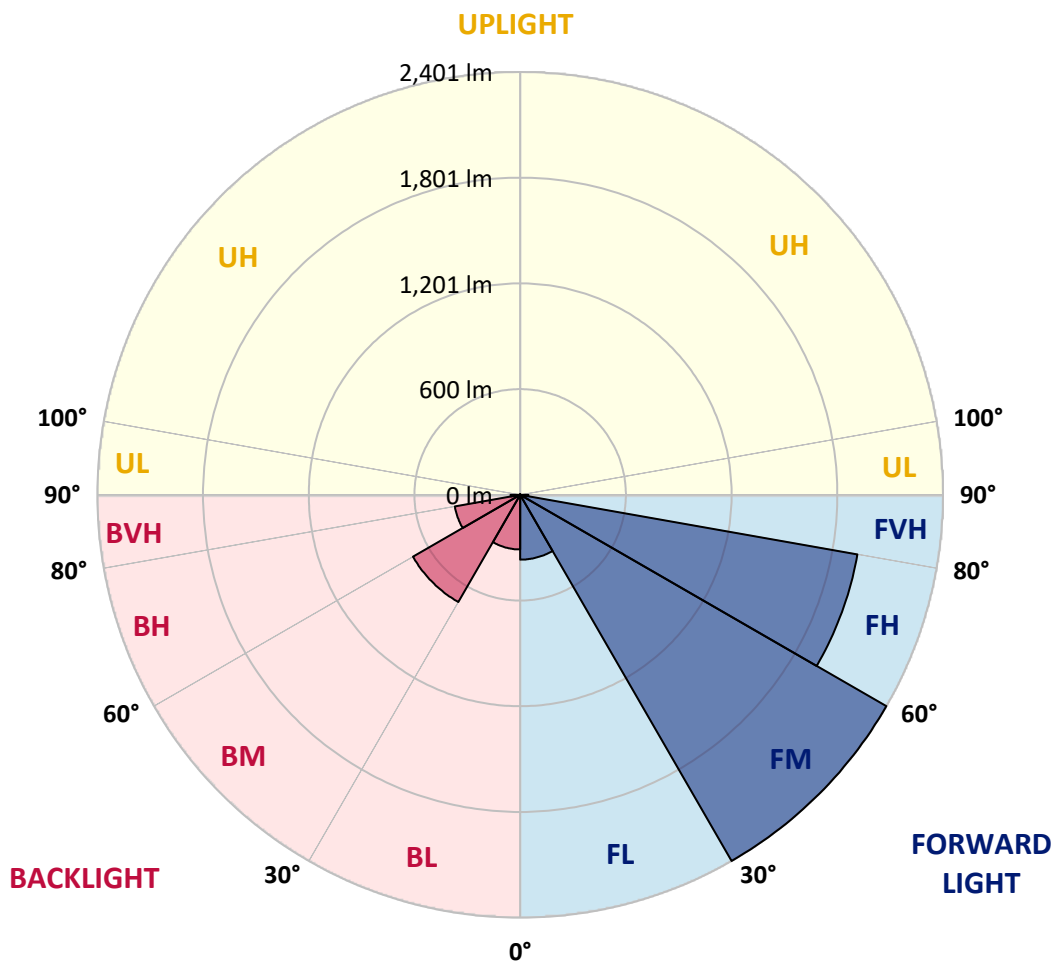
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	368.2	5.9			
FM	(30°-60°)	2401.4	38.7			
FH	(60°-80°)	1944.7	31.3			G2/5000
FVH	(80°-90°)	46.0	0.7			G1/100
BL	(0°-30°)	310.4	5.0	B1/500		
BM	(30°-60°)	703.0	11.3	B1/1000		
BH	(60°-80°)	376.9	6.1	B1/500		G1/500
BVH	(80°-90°)	54.1	0.9			G1/100
UL	(90°-100°)	2.3	0.0		U1/10	
UH	(100°-180°)	1.8	0.0		U1/10	

**BUG Rating: B1-U1-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6
2.5°	816.2	818.1	819.9	819.0	819.0	819.0	819.0	819.0	819.9	819.9	818.1
5°	802.8	803.6	804.6	806.4	808.1	810.0	810.9	810.9	811.8	810.9	809.1
7.5°	783.0	783.9	787.5	787.5	789.3	792.9	794.7	796.5	799.1	799.1	798.3
10°	776.7	776.7	776.7	774.0	775.8	776.7	779.4	779.4	786.5	790.2	792.0
12.5°	783.9	783.0	783.0	775.8	769.5	766.8	769.5	770.4	778.5	783.9	787.5
15°	800.0	800.0	798.3	787.5	774.9	765.1	764.1	764.1	770.4	778.5	784.8
17.5°	837.8	841.5	828.8	811.8	791.0	774.9	768.6	767.7	772.2	778.5	784.8
20°	909.7	908.9	890.0	859.4	823.5	796.5	781.2	779.4	778.5	782.1	789.3
22.5°	995.1	991.5	969.0	930.5	881.0	831.6	801.9	798.3	791.0	793.8	803.6
25°	1086.9	1087.7	1059.9	1009.6	947.5	888.1	843.2	839.6	824.4	822.6	833.3
27.5°	1178.5	1190.2	1152.5	1104.8	1031.1	960.1	894.5	889.0	875.5	871.1	881.9
30°	1312.4	1307.9	1261.2	1199.2	1125.5	1036.5	973.5	963.7	936.7	943.1	954.7
32.5°	1425.8	1435.6	1393.4	1319.7	1222.6	1129.1	1056.3	1050.9	1024.8	1032.1	1048.2
35°	1564.2	1587.5	1531.9	1441.0	1347.5	1251.4	1164.1	1149.8	1129.1	1143.5	1156.0
37.5°	1722.4	1734.1	1690.9	1574.1	1478.8	1378.1	1279.2	1256.8	1234.3	1264.0	1286.5
40°	1873.4	1892.4	1836.6	1737.7	1627.1	1530.9	1423.0	1418.5	1366.5	1398.8	1457.2
42.5°	2097.3	2120.7	2031.7	1916.6	1816.8	1700.9	1598.4	1574.1	1517.4	1563.3	1661.3
45°	2253.7	2252.8	2192.6	2097.3	2036.2	1923.8	1785.4	1756.6	1695.4	1756.6	1887.9
47.5°	2310.3	2323.8	2303.2	2291.4	2269.9	2188.1	1984.0	1957.0	1899.5	1990.3	2111.7
50°	2393.9	2390.3	2390.3	2462.2	2524.3	2507.3	2216.8	2178.2	2117.9	2226.8	2401.2
52.5°	2415.5	2383.2	2433.5	2571.0	2767.9	2782.3	2487.4	2465.8	2393.9	2500.0	2714.9
55°	2355.2	2347.2	2427.2	2626.7	2936.9	3039.4	2801.1	2771.5	2690.6	2781.4	3053.8
57.5°	2220.4	2241.1	2369.7	2615.1	3053.8	3266.0	3145.5	3103.2	2987.2	3042.1	3390.0
60°	2079.2	2089.2	2259.1	2573.7	3085.2	3423.2	3506.9	3482.5	3283.9	3316.3	3639.0
62.5°	1922.8	1899.5	2075.7	2539.6	3050.1	3639.9	3857.4	3838.5	3604.0	3594.0	3816.1
65°	1485.9	1518.4	1668.4	2099.1	2810.1	3808.9	4275.4	4251.2	3960.9	3823.3	3797.2
67.5°	954.7	948.4	1054.5	1403.3	2100.0	3461.9	4493.9	4520.9	4164.8	3926.7	3536.5
70°	342.5	352.4	392.0	637.4	1151.5	2306.8	3961.7	4095.7	4014.8	3733.4	2878.5
72.5°	208.6	208.6	237.3	286.7	466.6	1094.0	2823.7	3088.8	3276.7	3076.2	2126.0
75°	163.6	162.8	172.6	197.7	251.7	358.6	1501.3	1706.2	2101.8	2125.2	1210.0
77.5°	129.4	128.6	138.4	150.2	187.9	189.7	479.2	623.9	964.5	908.0	432.4
80°	104.2	103.4	110.6	114.2	137.6	131.2	192.4	222.9	338.0	296.7	187.0
82.5°	94.4	94.4	101.6	87.2	95.3	92.6	119.6	127.7	169.9	176.2	112.3
85°	61.2	62.9	95.3	84.5	62.0	56.7	76.4	80.9	106.1	116.0	54.8
87.5°	28.7	31.5	72.8	70.1	41.3	30.6	43.2	45.8	57.5	71.0	32.3
90°	5.4	5.4	9.0	9.9	5.4	5.4	7.2	6.3	6.3	9.0	9.0
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



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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°	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6	822.6
2.5°	820.7	819.0	819.9	820.7	821.6	824.4	825.2	825.2	825.2	824.4	826.1
5°	810.9	809.1	809.1	811.8	814.5	818.1	823.5	828.0	829.7	830.6	830.6
7.5°	800.0	798.3	799.1	803.6	808.1	810.9	816.2	819.0	826.1	826.1	828.0
10°	792.9	794.7	795.5	800.0	803.6	803.6	802.8	801.0	799.1	803.6	801.9
12.5°	788.4	791.0	790.2	795.5	797.4	790.2	779.4	765.1	763.2	765.1	766.8
15°	786.5	786.5	789.3	789.3	780.3	765.9	752.5	753.3	755.1	760.6	760.6
17.5°	786.5	787.5	789.3	783.0	766.8	754.2	751.6	748.8	739.0	736.2	733.6
20°	792.9	791.0	792.9	781.2	766.8	756.9	736.2	716.5	697.6	689.5	685.9
22.5°	808.1	805.5	804.6	792.9	774.9	741.6	701.2	670.6	638.2	627.5	623.9
25°	835.1	834.2	828.0	819.9	769.5	704.8	653.6	605.0	570.0	551.1	552.0
27.5°	882.8	882.8	879.2	843.2	741.6	659.0	589.7	540.3	504.3	486.3	483.7
30°	954.7	956.5	958.3	849.6	697.6	591.5	519.6	486.3	464.7	451.3	450.4
32.5°	1043.7	1053.5	1041.9	842.3	637.4	509.7	464.7	453.1	442.3	433.3	432.4
35°	1161.5	1188.5	1114.7	813.6	570.0	454.0	431.5	423.4	415.3	409.1	409.9
37.5°	1319.7	1345.8	1161.5	765.1	483.7	422.5	412.7	400.1	387.5	374.0	372.1
40°	1506.7	1498.5	1177.6	673.3	429.7	407.2	393.7	377.6	356.0	336.2	332.7
42.5°	1693.6	1639.7	1164.1	560.1	394.7	393.7	374.9	354.1	332.7	315.6	315.6
45°	1903.1	1763.8	1122.8	454.0	366.7	379.4	356.0	334.4	314.7	302.1	301.2
47.5°	2100.8	1879.8	1054.5	378.5	338.9	360.5	341.6	321.8	303.0	292.2	289.5
50°	2332.8	2011.8	1002.4	327.2	311.9	341.6	333.5	315.6	297.6	285.0	283.2
52.5°	2567.4	2140.4	962.8	292.2	287.7	327.2	329.9	319.2	300.2	276.0	274.2
55°	2812.8	2301.3	883.7	264.3	266.1	316.4	334.4	326.3	312.8	273.3	271.5
57.5°	3018.7	2449.7	745.2	245.4	249.0	308.3	336.2	320.9	305.7	275.1	272.4
60°	3179.6	2551.2	546.6	230.2	233.7	299.3	328.2	302.1	282.2	275.1	270.6
62.5°	3229.0	2554.8	363.1	212.2	222.1	284.1	313.7	292.2	268.8	272.4	270.6
65°	3105.1	2420.0	259.8	195.1	212.2	266.1	307.4	282.2	262.5	276.9	275.1
67.5°	2723.0	2038.8	208.6	181.6	198.7	247.2	295.7	273.3	257.1	286.7	281.4
70°	2121.6	1462.6	177.1	168.1	184.3	229.2	279.6	263.4	249.9	278.7	271.5
72.5°	1398.8	861.2	156.4	155.5	167.3	214.0	261.6	254.4	238.2	252.6	241.8
75°	730.0	399.2	135.7	141.2	148.3	200.5	245.4	238.2	220.2	225.7	222.1
77.5°	286.7	187.0	117.7	124.1	132.2	180.7	224.7	217.6	202.2	197.7	196.9
80°	157.3	125.8	98.0	106.1	111.5	162.8	203.2	195.1	178.9	176.2	173.5
82.5°	99.7	81.8	80.9	86.3	93.5	144.7	182.5	169.9	156.4	184.3	149.2
85°	46.7	48.6	57.5	64.8	72.8	123.2	159.1	145.7	132.2	128.6	114.2
87.5°	26.1	32.3	37.7	44.1	50.3	86.3	125.8	113.2	98.9	84.5	87.2
90°	6.3	6.3	10.7	9.9	10.7	12.6	62.0	55.8	49.4	23.3	15.2
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



REPORT NUMBER: P226488

CATALOG NUMBER: IST-AF-1000-LED-E1-T3

**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)