

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: P227117

Luminaire Tested: **IST-AF-1000-LED-E1-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)  
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-SL4-7030  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

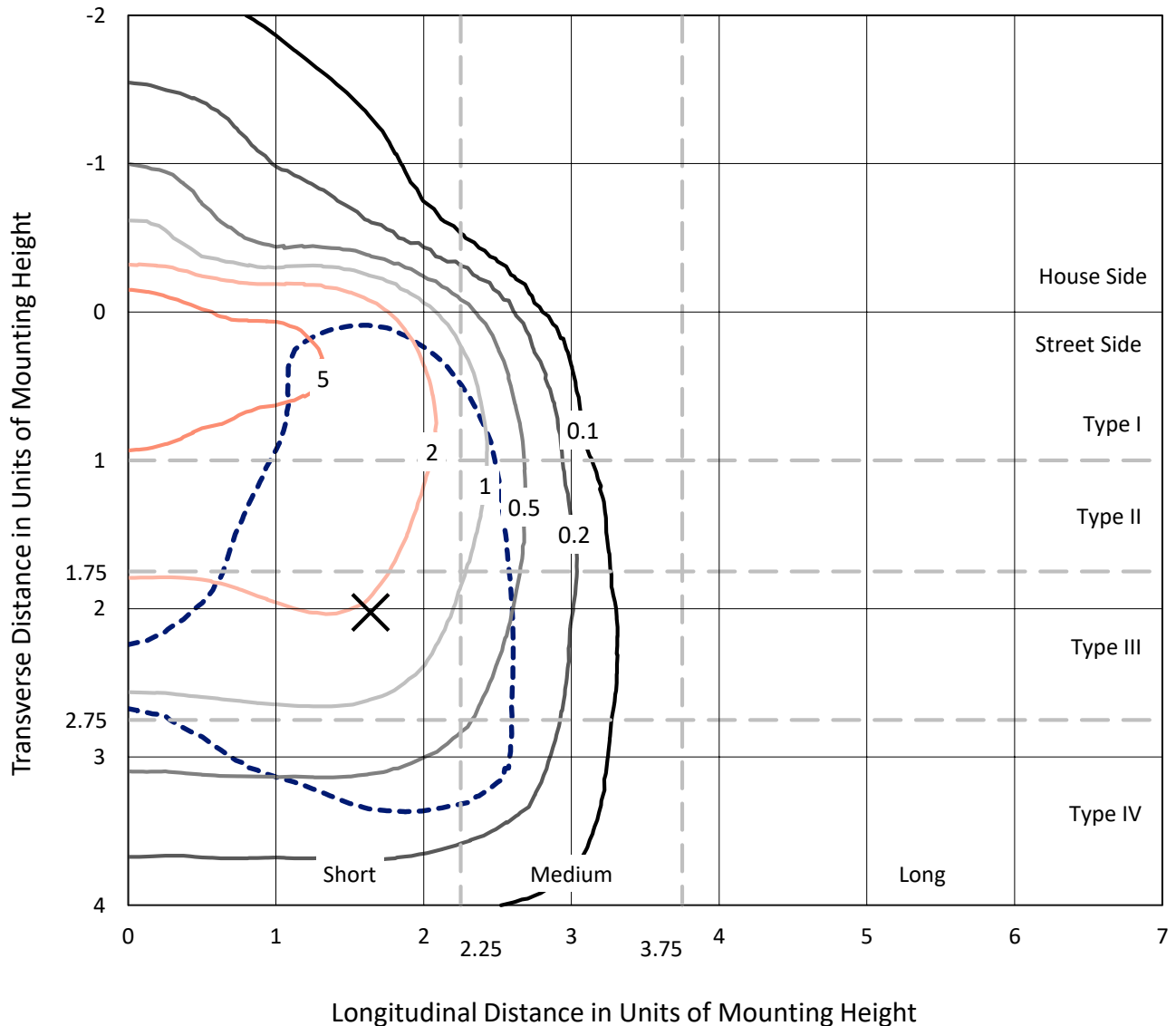
Lumens per Lamp: N/A  
Luminaire Lumens: 4793.3 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U1 - G2  
  
Input Watts (W): 54.6  
Input Voltage (V): 120  
Input Current (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

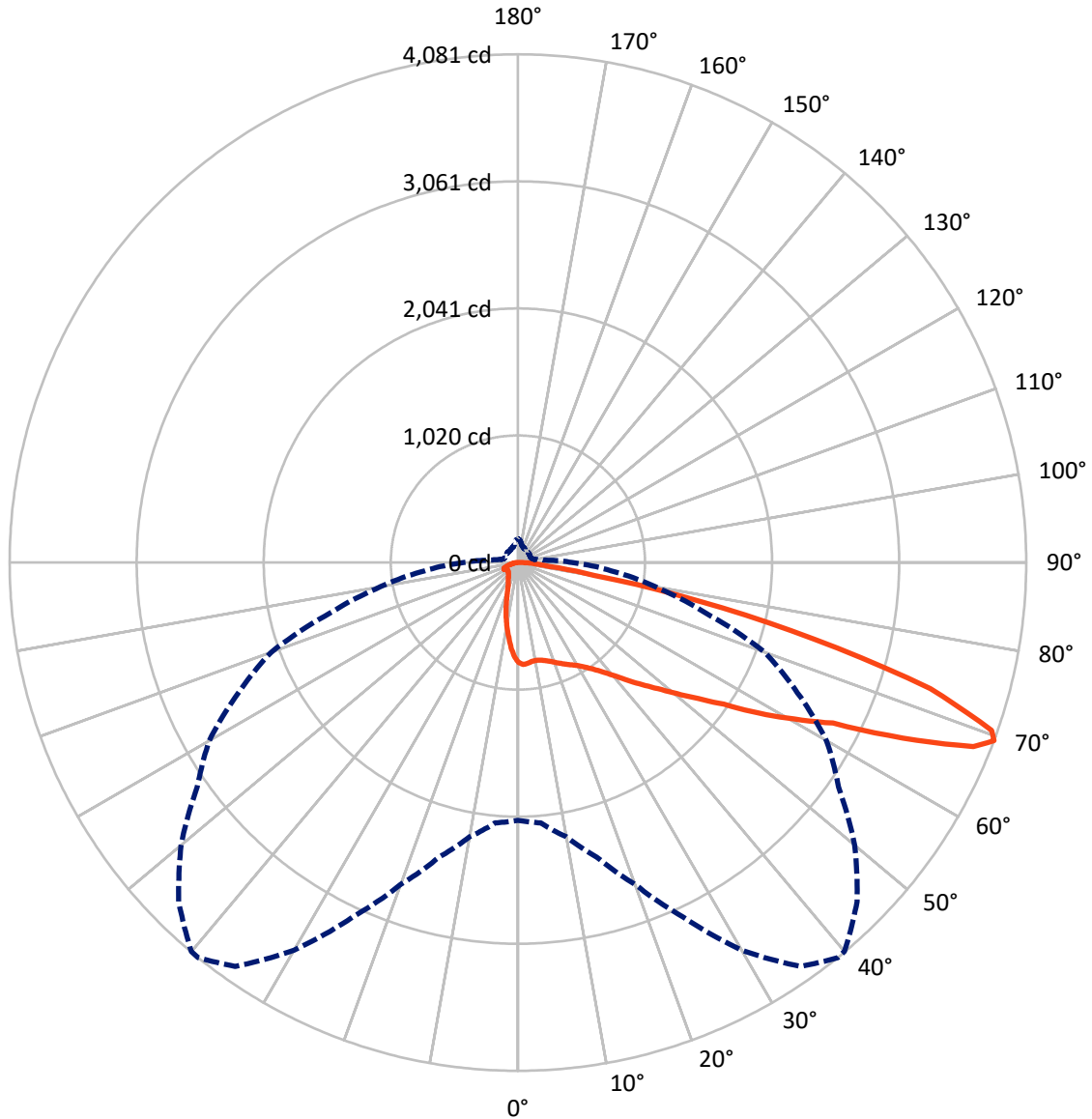
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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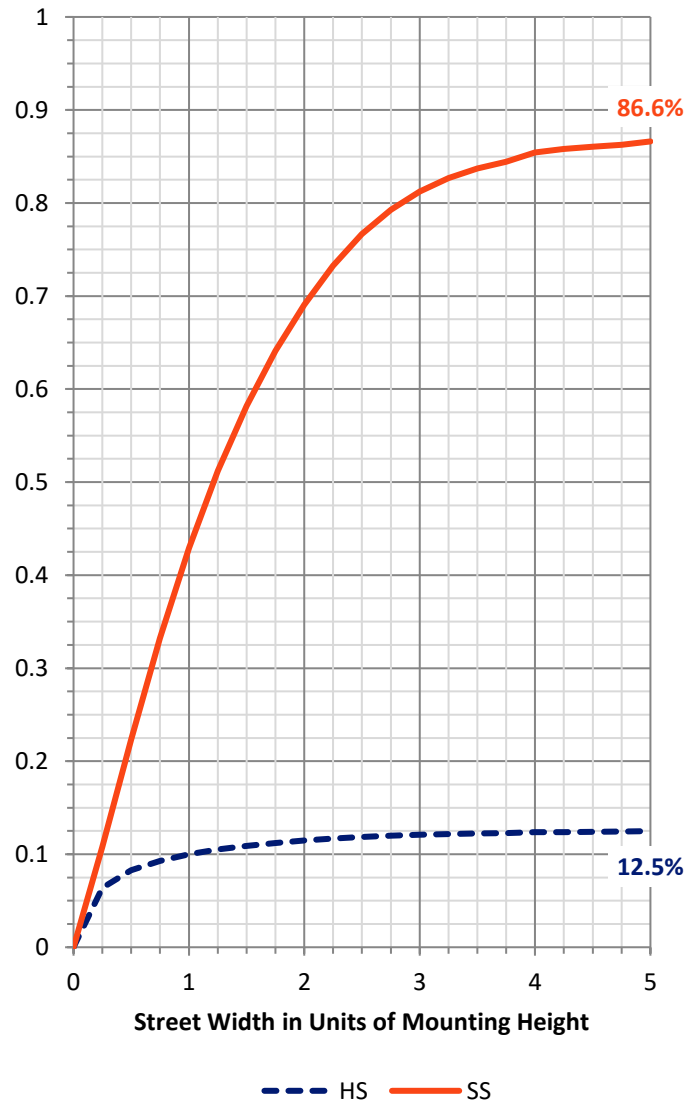
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	606.5	0.1	606.6
	% Fixture	12.7	0.0	12.7
<b>Street Side</b>	Lumens	4185.5	1.2	4186.6
	% Fixture	87.3	0.0	87.3
<b>Total</b>	Lumens	4791.9	1.3	4793.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.4
10°-20°	174.7	3.6
20°-30°	272.0	5.7
30°-40°	411.1	8.6
40°-50°	657.8	13.7
50°-60°	1033.8	21.6
60°-70°	1392.0	29.0
70°-80°	690.5	14.4
80°-90°	90.7	1.9
90°-100°	1.3	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°	4791.9	100.0
0°-180°	4793.3	100.0



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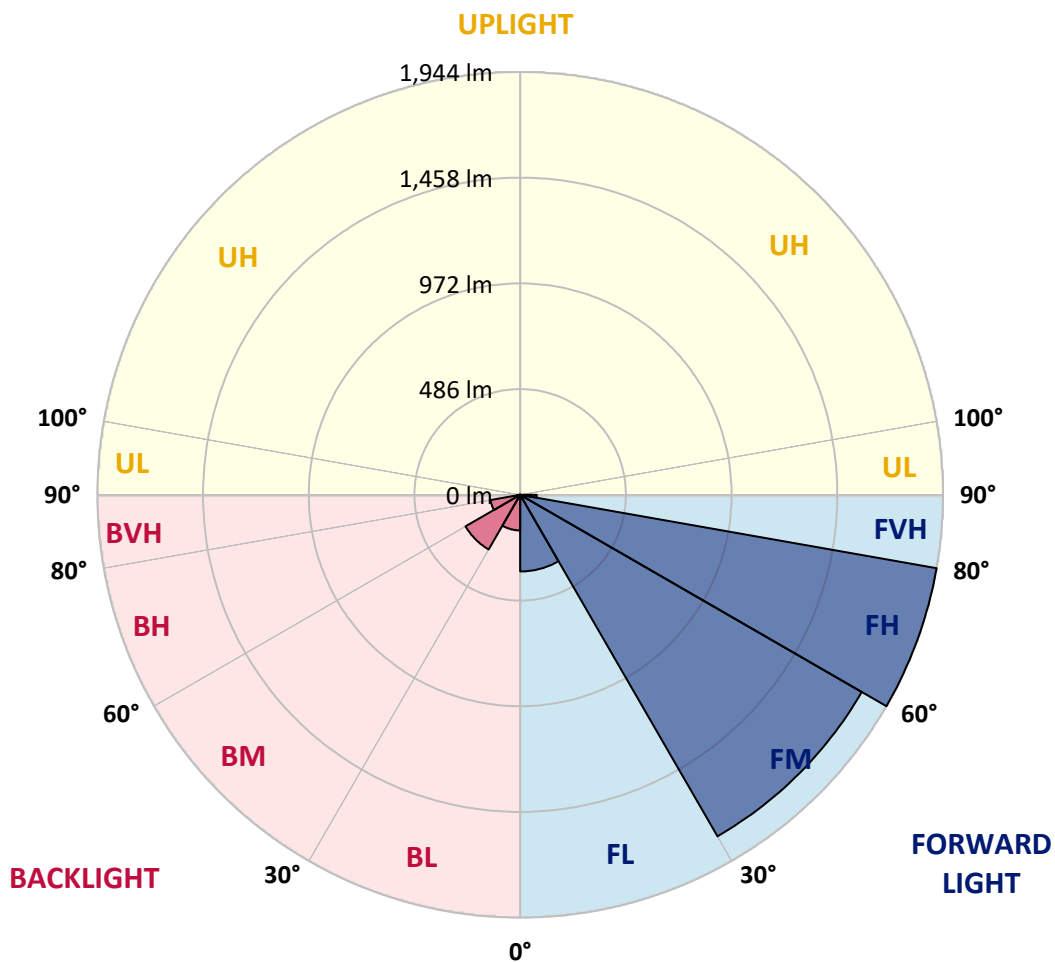
CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.4	7.4			
FM	(30°-60°)	1812.9	37.8			
FH	(60°-80°)	1943.7	40.6			G2/5000
FVH	(80°-90°)	76.4	1.6			G1/100
BL	(0°-30°)	163.6	3.4	B1/500		
BM	(30°-60°)	289.7	6.0	B1/1000		
BH	(60°-80°)	138.8	2.9	B1/500		G1/500
BVH	(80°-90°)	14.3	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	0.1	0.0		U1/10	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8
2.5°	822.3	823.1	823.1	823.8	820.7	820.7	821.5	818.4	819.9	819.2	815.3
5°	823.8	824.6	823.8	824.6	820.7	819.2	816.0	812.2	813.7	812.9	807.5
7.5°	819.9	820.7	819.2	819.9	815.3	812.2	807.5	804.4	802.0	801.3	794.3
10°	811.4	813.7	810.6	812.9	809.0	805.9	803.6	800.5	798.9	798.2	790.4
12.5°	798.9	800.5	801.3	804.4	804.4	805.2	805.2	802.8	803.6	802.8	796.6
15°	787.3	792.7	798.2	801.3	807.5	811.4	814.5	813.7	816.0	815.3	811.4
17.5°	787.3	791.9	801.3	811.4	823.1	828.5	833.2	833.2	833.9	832.4	826.2
20°	790.4	798.9	814.5	831.6	845.6	856.5	859.6	858.8	855.7	855.7	844.8
22.5°	816.0	821.5	838.6	857.3	876.7	887.6	888.4	886.1	879.8	878.3	865.1
25°	852.6	858.8	874.4	898.5	913.3	921.8	919.5	911.7	905.5	900.1	886.1
27.5°	909.4	914.1	929.6	946.0	954.5	957.6	948.3	937.4	930.4	928.1	909.4
30°	967.7	974.0	986.4	996.5	1003.5	994.2	979.4	967.0	960.7	959.2	942.1
32.5°	1039.3	1040.1	1048.7	1051.0	1051.8	1036.2	1016.0	1004.3	1002.0	998.9	985.6
35°	1104.7	1108.6	1107.0	1106.2	1099.2	1079.8	1062.7	1055.7	1053.3	1052.5	1041.6
37.5°	1163.0	1169.2	1165.3	1158.3	1149.8	1134.2	1116.3	1108.6	1116.3	1111.7	1114.0
40°	1219.8	1219.8	1215.1	1211.2	1201.1	1186.3	1180.1	1180.9	1193.3	1196.5	1199.6
42.5°	1268.8	1268.0	1263.4	1260.2	1258.7	1255.6	1252.5	1267.2	1291.4	1296.0	1303.0
45°	1322.5	1321.7	1303.8	1310.0	1320.9	1323.3	1334.2	1368.4	1397.9	1400.3	1415.1
47.5°	1374.6	1368.4	1351.3	1357.5	1388.6	1404.9	1422.8	1471.1	1512.3	1520.9	1562.1
50°	1429.1	1422.8	1404.2	1415.8	1459.4	1489.7	1531.7	1598.6	1655.4	1667.1	1720.8
52.5°	1485.8	1485.1	1470.3	1488.2	1541.9	1603.3	1669.4	1744.9	1814.1	1828.9	1908.3
55°	1554.3	1550.4	1544.2	1566.0	1642.2	1724.7	1828.1	1930.8	2006.3	2032.7	2112.9
57.5°	1631.3	1629.8	1630.5	1675.7	1767.5	1892.7	2019.5	2158.0	2282.4	2301.1	2375.8
60°	1698.2	1701.3	1719.2	1790.0	1905.2	2074.7	2252.9	2440.4	2550.8	2570.3	2643.4
62.5°	1779.9	1797.8	1837.5	1926.9	2062.3	2267.7	2498.7	2697.1	2839.4	2879.1	3017.6
65°	1975.9	1989.9	2063.9	2172.0	2344.7	2607.6	2872.9	3161.5	3396.4	3432.2	3551.3
67.5°	2119.1	2154.9	2270.8	2447.4	2697.1	3033.2	3397.2	3746.5	3944.9	3961.2	3878.0
69°	2069.3	2098.9	2235.8	2448.9	2750.0	3141.3	3594.0	3958.9	4081.0	4077.9	3851.5
70°	1993.1	2020.3	2171.2	2378.1	2705.6	3128.8	3597.2	3960.4	4034.3	4006.3	3747.3
72.5°	1669.4	1693.6	1835.1	2051.4	2368.8	2788.9	3230.0	3478.1	3462.6	3439.2	3011.4
75°	1042.4	1040.9	1164.6	1289.8	1536.4	1961.2	2289.4	2488.6	2456.7	2438.8	1933.2
77.5°	389.7	417.0	462.1	596.7	710.3	939.7	1205.0	1426.7	1488.2	1409.6	1040.9
80°	203.0	217.8	247.4	294.8	339.2	388.2	466.8	600.6	621.6	579.6	420.1
82.5°	160.3	178.1	207.7	248.2	279.3	260.6	245.8	254.4	252.8	241.2	213.9
85°	121.4	142.4	190.6	231.8	276.2	233.4	185.9	162.6	144.7	145.5	154.8
87.5°	60.7	78.6	150.1	202.3	240.4	154.8	121.4	94.1	78.6	75.5	101.1
90°	18.7	18.7	30.3	39.7	54.5	27.2	26.4	20.2	14.8	14.8	23.3
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



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8
2.5°	812.2	812.2	810.6	809.8	807.5	804.4	802.0	798.2	795.8	791.9	787.3
5°	802.0	798.9	797.4	794.3	789.6	785.7	781.0	775.6	769.4	761.6	753.0
7.5°	788.8	784.2	778.7	777.2	771.7	767.0	761.6	753.8	745.3	731.3	720.4
10°	783.4	778.7	774.0	770.9	763.9	758.5	752.3	742.1	731.3	712.6	692.4
12.5°	788.8	784.2	779.5	774.0	767.8	761.6	753.0	740.6	725.8	701.7	676.8
15°	802.0	797.4	789.6	784.2	775.6	770.2	758.5	744.5	722.7	693.1	660.5
17.5°	816.8	809.8	802.8	794.3	786.5	779.5	767.0	749.1	721.9	686.9	644.9
20°	830.8	823.1	812.2	805.9	798.2	788.0	774.8	753.0	720.4	674.5	628.6
22.5°	847.2	837.1	825.4	818.4	812.2	803.6	788.0	760.0	720.4	667.5	609.9
25°	868.2	854.9	843.3	836.3	832.4	826.2	807.5	776.4	725.8	663.6	594.3
27.5°	893.1	875.9	865.8	861.2	860.4	855.7	837.1	798.2	738.3	663.6	579.6
30°	922.6	907.8	894.6	894.6	904.0	900.8	879.8	831.6	757.7	665.9	568.7
32.5°	963.9	949.1	941.3	949.1	959.2	962.3	938.2	879.1	789.6	676.8	557.8
35°	1024.5	1015.2	1009.8	1021.4	1041.6	1049.4	1019.9	949.9	836.3	697.8	551.6
37.5°	1104.7	1097.7	1090.7	1110.9	1149.0	1164.6	1121.8	1031.5	903.2	732.8	548.4
40°	1196.5	1197.2	1205.0	1245.5	1282.0	1314.7	1266.5	1155.2	995.0	782.6	551.6
42.5°	1305.4	1313.9	1340.4	1396.4	1467.2	1492.8	1446.2	1304.6	1109.3	842.5	559.3
45°	1440.7	1463.3	1508.4	1591.6	1677.2	1716.9	1650.8	1492.8	1253.2	938.2	581.1
47.5°	1584.6	1634.4	1710.7	1811.8	1911.4	1937.0	1855.4	1663.2	1394.1	1023.0	614.6
50°	1769.0	1829.7	1905.9	2027.3	2133.1	2148.6	2040.5	1821.1	1517.0	1096.9	646.5
52.5°	1940.9	2023.4	2120.6	2261.4	2368.8	2349.4	2209.3	1961.9	1614.2	1147.4	664.4
55°	2175.9	2261.4	2371.1	2494.0	2600.6	2553.9	2362.6	2081.7	1692.0	1184.8	669.8
57.5°	2444.3	2509.6	2617.0	2743.0	2813.0	2732.9	2513.5	2198.4	1765.9	1185.6	627.0
60°	2708.0	2784.2	2902.5	3026.2	3065.0	2926.6	2618.5	2216.3	1692.8	1058.0	501.8
62.5°	3098.5	3175.5	3235.4	3255.6	3185.6	2907.1	2496.4	2027.3	1459.4	834.7	355.5
65°	3534.9	3447.8	3331.9	3223.0	3032.4	2609.2	2152.5	1665.5	1132.7	557.8	245.0
67.5°	3649.3	3384.0	3131.9	2889.2	2533.7	2077.9	1623.5	1171.6	726.6	317.4	166.5
69°	3530.2	3142.8	2862.0	2476.9	2109.7	1555.1	1118.7	750.7	434.1	220.9	139.2
70°	3312.4	2909.5	2529.1	2116.7	1634.4	1187.9	743.7	491.7	283.2	161.0	125.2
72.5°	2499.5	1998.5	1540.3	1000.4	609.9	338.4	238.0	170.4	134.6	118.2	107.4
75°	1445.4	962.3	630.1	336.1	199.2	147.8	129.1	115.1	106.6	102.7	93.4
77.5°	609.9	381.2	258.3	189.0	133.8	114.4	99.6	91.8	91.0	88.7	80.1
80°	277.7	238.0	203.0	142.4	101.9	87.1	76.2	74.7	76.2	73.9	65.3
82.5°	206.2	203.0	169.6	109.7	77.8	58.3	47.5	49.8	56.0	60.7	52.9
85°	171.9	171.9	142.4	81.7	51.3	37.3	36.6	41.2	46.7	50.6	42.8
87.5°	157.9	151.7	81.7	42.0	29.6	24.1	22.6	20.2	20.2	35.0	29.6
90°	15.6	7.0	3.9	3.1	3.9	3.1	4.7	3.9	3.9	3.9	3.9
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



REPORT NUMBER: P227117

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7030

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P227117

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8	802.8
2.5°	783.4	780.3	772.5	770.9	768.6	765.5	764.7	760.8	753.0	751.5	752.3
5°	747.6	735.1	726.6	719.6	714.1	700.1	694.7	688.5	677.6	674.5	669.8
7.5°	705.6	690.8	673.7	661.2	646.5	631.7	620.0	605.2	593.6	586.6	574.1
10°	672.9	652.7	630.1	605.2	585.8	563.2	548.4	531.3	512.7	495.5	483.1
12.5°	648.0	620.0	587.3	557.8	529.8	505.7	479.2	455.1	431.8	408.4	388.2
15°	627.8	592.8	551.6	514.2	480.0	444.2	414.6	381.2	351.6	331.4	305.7
17.5°	606.0	560.9	511.9	468.3	424.0	386.6	349.3	314.3	286.3	259.8	238.8
20°	579.6	525.1	472.2	421.6	371.1	328.3	290.2	256.7	229.5	208.5	192.9
22.5°	550.0	486.2	424.8	369.5	319.0	276.9	241.2	216.3	196.0	184.4	179.7
25°	521.2	448.1	378.9	318.2	267.6	231.8	207.7	186.7	176.6	171.9	171.9
27.5°	494.8	409.2	332.2	273.1	224.0	196.0	177.4	168.8	164.1	164.1	166.5
30°	469.9	370.3	287.8	227.9	189.0	168.0	157.9	154.8	155.6	158.7	161.8
32.5°	441.1	333.0	249.7	196.0	164.1	150.1	142.4	143.1	147.0	152.5	157.9
35°	410.7	293.3	216.3	171.9	147.0	136.1	131.5	132.2	137.7	144.7	150.1
37.5°	383.5	261.4	190.6	153.3	134.6	127.6	123.7	124.5	128.4	136.9	143.9
40°	356.3	234.2	169.6	142.4	127.6	120.6	118.2	117.5	120.6	128.4	136.9
42.5°	333.0	210.8	157.1	134.6	122.9	116.7	113.6	113.6	115.1	121.4	129.9
45°	319.0	196.8	148.6	129.1	119.0	113.6	110.5	108.9	111.2	115.1	122.9
47.5°	319.0	189.8	143.1	125.2	115.9	111.2	107.4	106.6	107.4	111.2	119.0
50°	329.8	191.4	142.4	123.7	114.4	108.1	104.2	104.2	105.8	111.2	117.5
52.5°	339.2	194.5	144.7	125.2	114.4	106.6	101.9	101.1	103.5	108.9	114.4
55°	337.6	194.5	147.0	127.6	116.7	107.4	101.1	100.4	101.9	107.4	112.8
57.5°	301.8	182.8	144.7	129.1	119.8	111.2	105.0	102.7	104.2	108.9	113.6
60°	244.3	162.6	138.5	129.1	124.5	118.2	112.0	110.5	111.2	115.9	121.4
62.5°	191.4	144.7	130.7	128.4	126.8	123.7	121.4	119.8	119.8	123.7	128.4
65°	155.6	130.7	124.5	125.2	126.8	126.0	125.2	124.5	124.5	126.8	131.5
67.5°	129.9	117.5	115.9	118.2	119.8	120.6	121.4	120.6	121.4	123.7	129.1
69°	118.2	110.5	108.9	110.5	113.6	114.4	115.9	115.1	115.9	118.2	123.7
70°	111.2	105.0	103.5	105.8	108.1	108.9	110.5	109.7	110.5	112.8	118.2
72.5°	96.5	89.5	87.1	88.7	91.0	91.0	93.4	94.1	92.6	93.4	97.2
75°	82.5	74.7	70.8	71.6	71.6	71.6	73.1	73.1	71.6	70.8	71.6
77.5°	69.2	60.7	56.0	56.0	56.0	55.2	52.9	53.7	54.5	53.7	54.5
80°	54.5	47.5	42.8	42.8	42.8	41.2	40.5	40.5	42.0	43.6	42.8
82.5°	42.0	35.0	32.7	31.9	31.9	30.3	30.3	31.9	31.1	31.9	33.5
85°	30.3	24.9	22.6	23.3	22.6	21.0	21.8	24.1	24.1	23.3	24.9
87.5°	18.7	15.6	14.8	15.6	14.0	11.7	10.9	11.7	13.2	12.4	14.0
90°	2.3	1.6	1.6	1.6	2.3	1.6	1.6	1.6	2.3	2.3	1.6
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



REPORT NUMBER: P227117  
 CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P227117  
 NUMBER: IST-AF-1000-LED-E1-SL4-7030

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
802.8	802.8	802.8	802.8	802.8
746.8	749.1	739.0	743.7	740.6
665.1	661.2	660.5	658.1	653.5
569.4	566.3	557.0	560.1	553.1
470.6	469.9	452.8	453.5	445.0
379.6	365.6	358.6	348.5	354.0
294.1	282.4	267.6	263.7	269.2
221.7	210.0	203.0	196.8	194.5
183.6	176.6	172.7	170.4	168.8
177.4	175.8	175.0	173.5	172.7
173.5	175.0	175.0	175.0	173.5
169.6	172.7	173.5	172.7	171.1
165.7	168.0	168.0	167.3	164.9
160.3	162.6	162.6	161.8	160.3
154.0	155.6	156.4	156.4	157.1
149.4	150.9	152.5	154.0	156.4
143.9	146.3	147.0	150.1	153.3
136.9	140.0	141.6	143.9	147.0
129.9	133.8	134.6	137.7	140.8
126.8	129.9	129.9	132.2	134.6
122.9	124.5	123.7	125.2	126.0
119.0	120.6	119.8	121.4	122.1
115.9	117.5	119.0	120.6	121.4
117.5	119.8	120.6	122.9	123.7
124.5	127.6	130.7	133.8	136.1
131.5	135.4	142.4	156.4	161.8
135.4	140.8	157.1	181.3	188.3
133.0	140.0	159.5	185.1	193.7
128.4	133.8	154.8	181.3	189.0
122.1	127.6	148.6	177.4	184.4
98.8	101.9	125.2	152.5	157.1
72.3	74.7	92.6	103.5	102.7
56.0	59.1	65.3	66.1	65.3
44.3	45.9	49.0	49.0	49.8
34.2	35.0	36.6	35.0	34.2
25.7	24.9	24.1	23.3	22.6
14.8	14.8	12.4	10.9	10.1
1.6	2.3	2.3	1.6	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

**CANDELA DISTRIBUTION:**

	160°
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

'227117  
IST-AF-1000-LED-E1-SL4-7030

**TION (continued):**

<u>165°</u>	<u>170°</u>	<u>175°</u>	<u>180°</u>
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0
0.0	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)