

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: P271734

Luminaire Tested: **IST-AF-1000-LED-E1-SL4-7027-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)-DOWNLIGHT AND  
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-SL4-7027-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCUELED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6409.8 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2

Input Watts (W): 71.3  
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

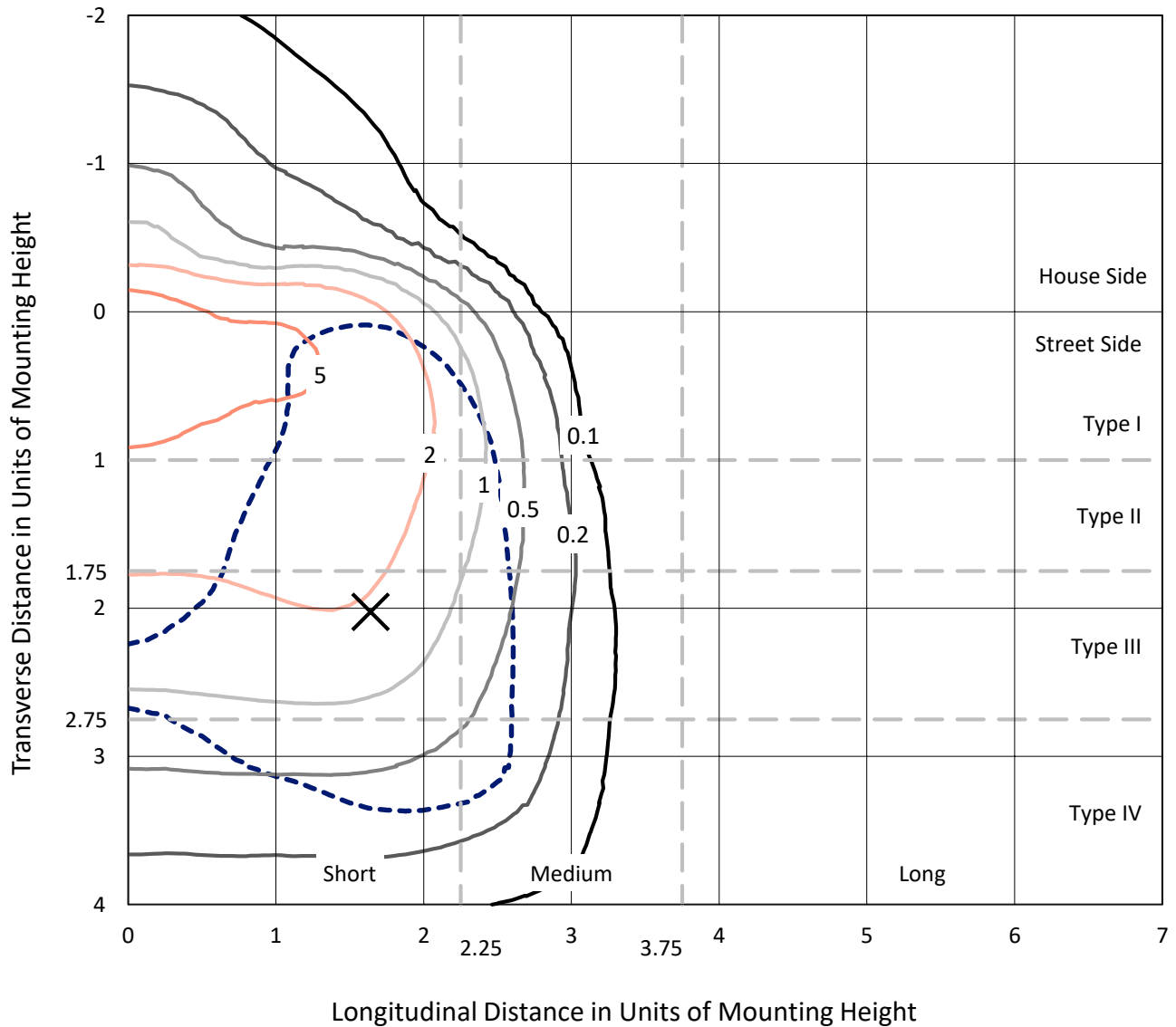


REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

### Iso-Footcandle Lines of Horizontal Illumination

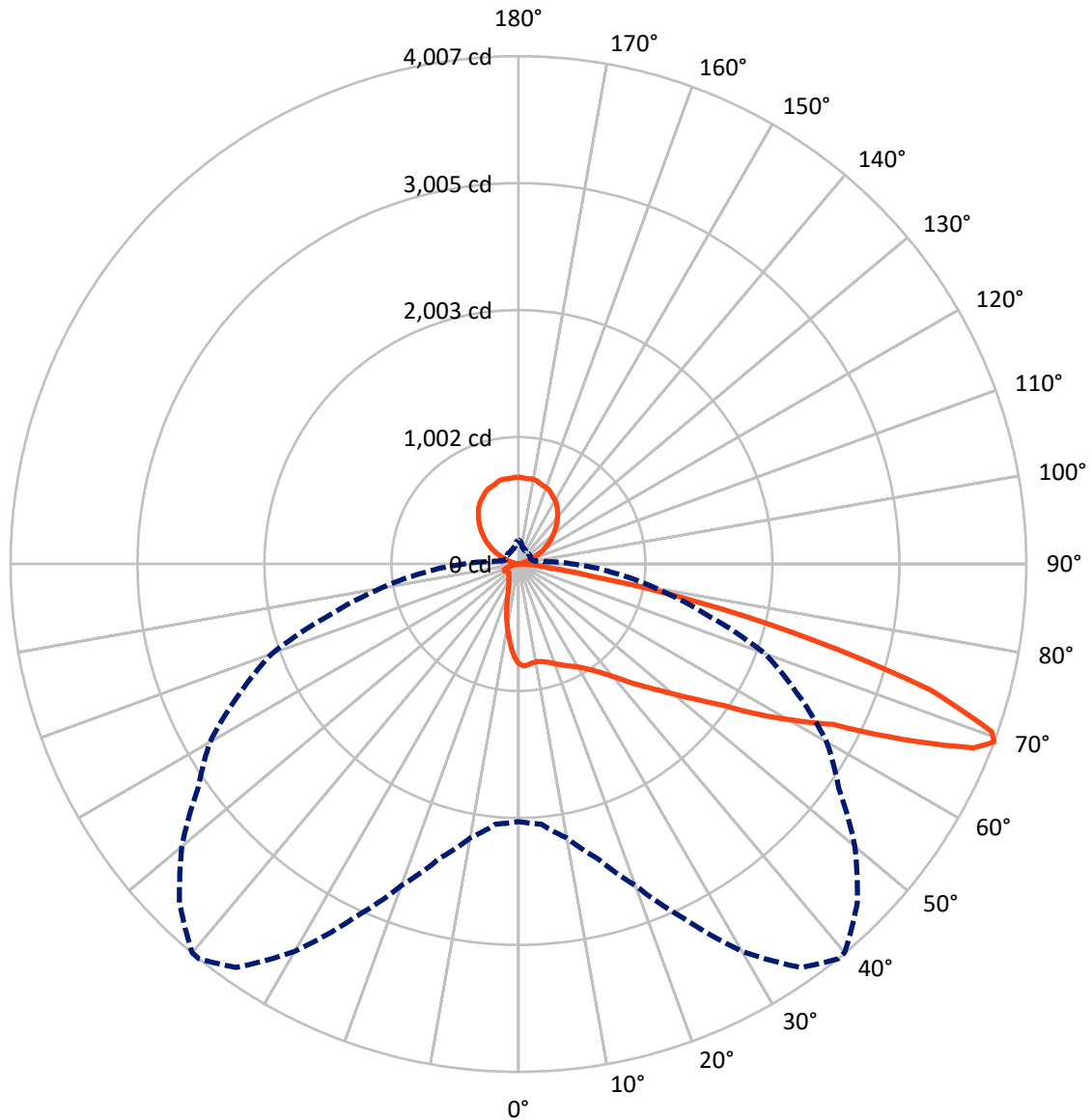
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271734  
CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

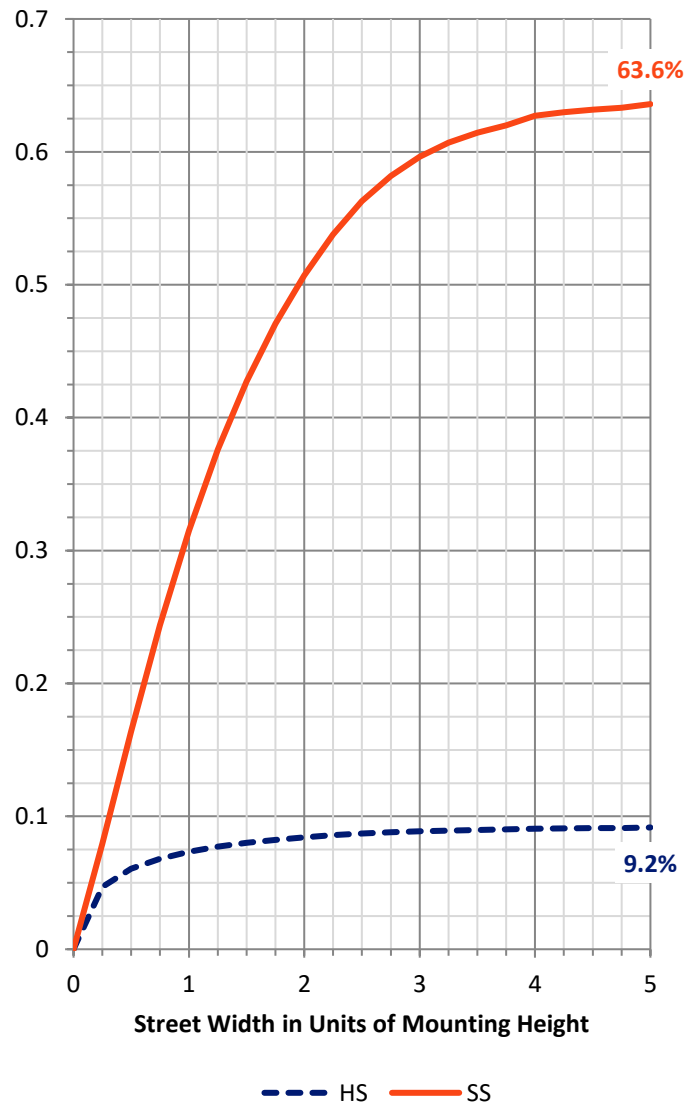
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.9	851.6	1447.5
	% Fixture	9.3	13.3	22.6
<b>Street Side</b>	Lumens	4109.6	852.7	4962.2
	% Fixture	64.1	13.3	77.4
<b>Total</b>	Lumens	4705.5	1704.3	6409.8
	% Fixture	73.4	26.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	1.1
10°-20°	171.6	2.7
20°-30°	267.0	4.2
30°-40°	403.6	6.3
40°-50°	645.8	10.1
50°-60°	1015.0	15.8
60°-70°	1366.6	21.3
70°-80°	677.9	10.6
80°-90°	90.1	1.4
90°-100°	10.4	0.2
100°-110°	56.3	0.9
110°-120°	163.0	2.5
120°-130°	268.1	4.2
130°-140°	330.6	5.2
140°-150°	338.2	5.3
150°-160°	284.9	4.4
160°-170°	187.6	2.9
170°-180°	65.0	1.0
0°-90°	4705.5	73.4
0°-180°	6409.8	100.0



REPORT NUMBER: P271734

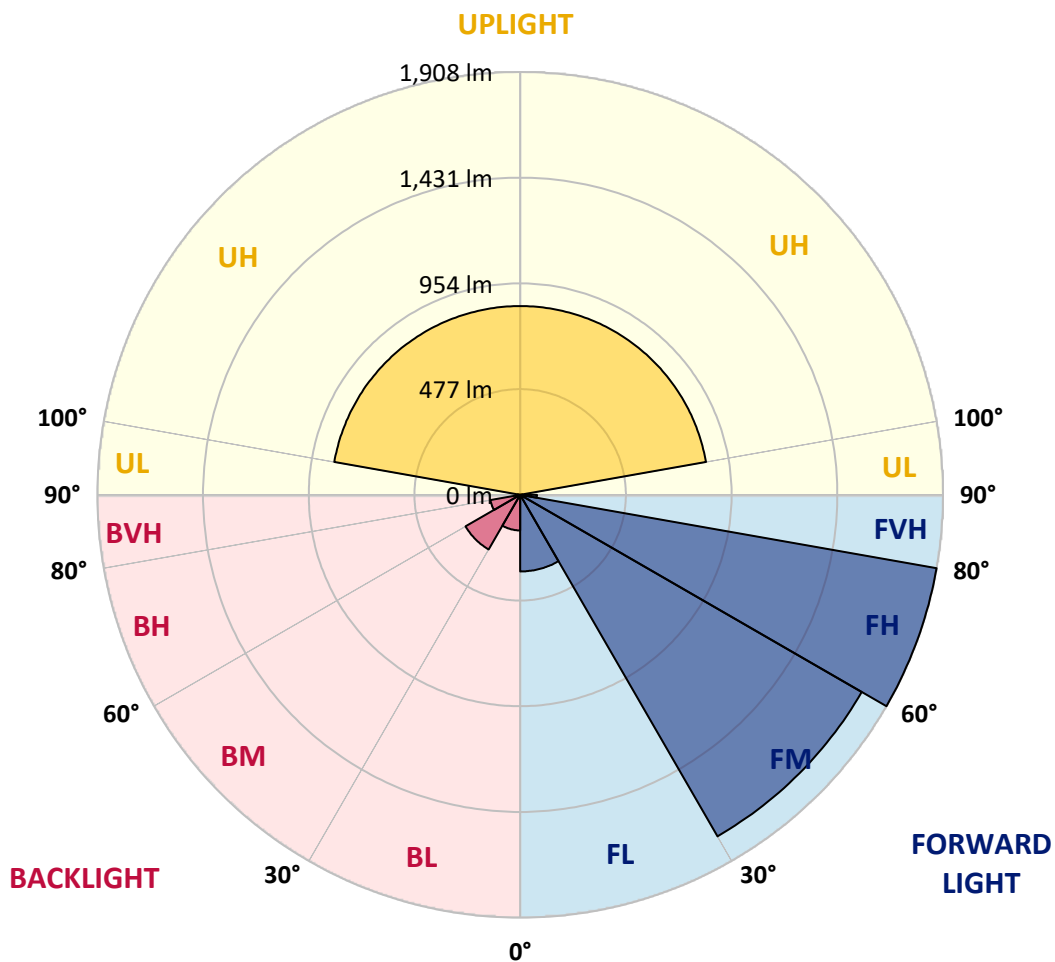
CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.0	5.4			
FM	(30°-60°)	1779.9	27.8			
FH	(60°-80°)	1908.2	29.8			G2/5000
FVH	(80°-90°)	75.5	1.2			G1/100
BL	(0°-30°)	160.6	2.5	B1/500		
BM	(30°-60°)	284.5	4.4	B1/1000		
BH	(60°-80°)	136.3	2.1	B1/500		G1/500
BVH	(80°-90°)	14.5	0.2			G1/100
UL	(90°-100°)	10.4	0.2		U2/50	
UH	(100°-180°)	851.6	13.3		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Short





REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	807.3	808.0	808.0	808.8	805.7	805.7	806.5	803.4	805.0	804.3	800.4
5°	808.8	809.6	808.8	809.6	805.7	804.3	801.2	797.3	798.9	798.1	792.8
7.5°	805.0	805.7	804.3	805.0	800.4	797.3	792.8	789.7	787.5	786.6	779.8
10°	796.5	798.9	795.8	798.1	794.3	791.2	788.9	785.8	784.4	783.6	776.0
12.5°	784.4	785.8	786.6	789.7	789.7	790.5	790.5	788.2	788.9	788.2	782.1
15°	772.9	778.2	783.6	786.6	792.8	796.5	799.6	798.9	801.2	800.4	796.5
17.5°	772.9	777.6	786.6	796.5	808.0	813.3	818.0	818.0	818.7	817.2	811.1
20°	776.0	784.4	799.6	816.4	830.1	840.8	844.0	843.1	840.2	840.2	829.5
22.5°	801.2	806.5	823.3	841.6	860.8	871.4	872.2	869.9	863.8	862.2	849.3
25°	837.0	843.1	858.4	882.1	896.6	905.0	902.8	895.1	889.1	883.7	869.9
27.5°	892.8	897.4	912.7	928.7	937.1	940.2	931.0	920.3	913.5	911.2	892.8
30°	950.0	956.2	968.5	978.3	985.2	976.1	961.5	949.3	943.2	941.7	924.9
32.5°	1020.4	1021.1	1029.5	1031.8	1032.6	1017.3	997.5	986.0	983.7	980.6	967.7
35°	1084.5	1088.4	1086.8	1086.1	1079.1	1060.1	1043.2	1036.4	1034.1	1033.3	1022.6
37.5°	1141.7	1147.9	1144.1	1137.3	1128.8	1113.4	1095.9	1088.4	1095.9	1091.4	1093.7
40°	1197.5	1197.5	1192.9	1189.2	1179.3	1164.7	1158.5	1159.4	1171.6	1174.6	1177.7
42.5°	1245.7	1244.9	1240.3	1237.2	1235.7	1232.7	1229.6	1244.2	1267.8	1272.4	1279.3
45°	1298.3	1297.6	1280.1	1286.1	1296.8	1299.1	1309.8	1343.4	1372.4	1374.8	1389.2
47.5°	1349.5	1343.4	1326.5	1332.7	1363.3	1379.3	1396.9	1444.3	1484.7	1493.2	1533.6
50°	1403.1	1396.9	1378.6	1389.9	1432.8	1462.5	1503.9	1569.5	1625.2	1636.7	1689.4
52.5°	1458.8	1457.9	1443.5	1461.0	1513.7	1574.1	1639.0	1713.1	1781.0	1795.5	1873.4
55°	1526.0	1522.1	1516.0	1537.4	1612.3	1693.2	1794.7	1895.6	1969.6	1995.7	2074.3
57.5°	1601.6	1600.0	1600.8	1645.1	1735.2	1858.1	1982.6	2118.7	2240.8	2259.1	2332.4
60°	1667.3	1670.3	1687.8	1757.4	1870.5	2036.9	2211.8	2395.8	2504.3	2523.4	2595.1
62.5°	1747.5	1765.0	1804.0	1891.8	2024.7	2226.3	2453.1	2647.8	2787.6	2826.6	2962.5
65°	1939.9	1953.6	2026.1	2132.4	2301.9	2560.0	2820.5	3103.8	3334.5	3369.6	3486.4
67.5°	2080.5	2115.6	2229.3	2402.7	2647.8	2977.8	3335.2	3678.2	3873.0	3888.9	3807.3
69°	2031.6	2060.5	2195.0	2404.2	2699.8	3084.0	3528.5	3886.7	4006.6	4003.5	3781.2
70°	1956.7	1983.4	2131.6	2334.8	2656.3	3071.8	3531.5	3888.1	3960.8	3933.3	3678.9
72.5°	1639.0	1662.7	1801.6	2014.0	2325.6	2738.0	3171.1	3414.6	3399.4	3376.5	2956.4
75°	1023.3	1021.9	1143.4	1266.3	1508.3	1925.3	2247.6	2443.2	2411.9	2394.3	1897.8
77.5°	382.7	409.4	453.6	585.8	697.3	922.6	1183.0	1400.6	1461.0	1383.9	1021.9
80°	199.3	213.9	242.9	289.4	333.0	381.2	458.2	589.6	610.2	569.0	412.4
82.5°	157.3	174.9	203.9	243.6	274.3	255.8	241.4	249.8	248.2	236.7	210.0
85°	119.1	139.8	187.0	227.6	271.1	229.1	182.5	159.6	142.0	142.8	152.0
87.5°	59.6	77.2	147.4	198.5	236.0	152.0	119.1	92.4	77.2	74.1	99.4
90°	23.3	23.3	35.7	45.8	60.8	34.6	33.9	27.7	22.0	21.9	29.7
92.5°	4.0	4.0	4.4	4.9	5.4	5.9	5.9	5.9	5.9	5.9	5.9
95°	4.9	4.9	5.4	5.9	6.4	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	6.8	6.8	7.4	7.8	7.8	7.8	8.4	8.8	8.8	8.8	8.8
100°	7.8	7.8	8.4	8.8	9.3	9.8	10.8	11.8	15.3	16.2	20.6
102.5°	10.8	10.8	11.8	12.8	15.2	17.7	22.1	26.5	31.6	32.9	39.3
105°	20.6	21.6	24.1	26.5	30.9	35.3	41.2	47.1	53.0	54.4	61.8
107.5°	40.2	41.2	44.6	48.1	52.6	57.0	64.3	71.7	77.5	79.1	86.3



REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	64.8	66.7	69.7	72.7	79.1	85.4	92.7	100.1	104.8	106.0	111.9
112.5°	97.2	97.2	100.6	104.0	111.4	118.8	125.1	131.5	135.0	135.9	140.3
115°	137.4	136.5	140.3	144.3	150.2	156.0	160.4	164.9	167.3	167.8	170.8
117.5°	180.6	180.6	183.1	185.5	189.5	193.3	195.8	198.3	199.4	199.7	201.2
120°	220.8	218.8	220.4	221.8	225.3	228.7	230.7	232.6	235.0	235.5	238.5
122.5°	258.2	255.2	255.7	256.2	259.1	262.0	264.0	266.0	268.3	269.0	271.8
125°	292.5	288.5	289.5	290.5	291.9	293.5	296.4	299.3	301.3	301.8	304.3
127.5°	323.9	322.9	322.9	322.9	324.8	326.8	329.8	332.7	333.1	333.2	333.7
130°	356.3	354.3	354.8	355.3	357.3	359.2	361.2	363.2	363.9	364.2	365.1
132.5°	388.7	386.7	386.2	385.7	389.7	393.5	395.1	396.5	396.9	397.1	397.5
135°	421.0	418.1	418.1	418.1	421.0	424.0	425.4	427.0	427.8	428.0	428.9
137.5°	451.5	448.5	449.5	450.5	450.9	451.5	453.5	455.4	457.0	457.3	459.3
140°	479.0	476.0	477.0	478.0	479.0	480.0	481.0	481.9	484.3	484.8	487.8
142.5°	508.4	505.5	506.5	507.5	507.9	508.4	509.9	511.3	512.9	513.3	515.3
145°	539.8	535.9	534.9	534.0	535.4	536.8	538.4	539.8	540.2	540.3	540.8
147.5°	564.3	561.4	560.9	560.5	561.9	563.3	563.3	563.3	563.8	563.9	564.3
150°	584.0	581.0	581.6	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
152.5°	599.7	596.7	596.7	596.7	597.2	597.7	598.2	598.7	598.7	598.7	598.7
155°	617.3	613.5	613.5	613.5	614.4	615.4	616.9	618.3	617.6	617.3	616.3
157.5°	634.0	631.1	631.1	631.1	631.6	632.0	633.0	634.0	633.7	633.6	633.0
160°	650.7	647.8	647.3	646.8	645.3	643.8	643.4	642.8	642.8	642.8	642.8
162.5°	660.5	656.6	656.6	656.6	654.7	652.7	650.7	648.8	649.6	649.7	650.7
165°	668.4	665.5	664.5	663.5	663.5	663.5	662.1	660.5	660.5	660.5	660.5
167.5°	677.2	674.3	672.8	671.3	672.3	673.3	674.3	675.3	674.1	673.8	672.3
170°	685.0	682.2	680.6	679.2	679.2	679.2	679.7	680.2	679.4	679.2	678.2
172.5°	686.0	684.1	683.1	682.2	681.2	680.2	678.7	677.2	677.2	677.2	677.2
175°	687.0	685.0	684.6	684.1	683.1	682.2	680.2	678.2	677.8	677.7	677.2
177.5°	693.9	692.0	689.4	687.0	686.6	686.0	685.0	684.1	683.3	683.1	682.2
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0





REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	797.3	797.3	795.8	795.1	792.8	789.7	787.5	783.6	781.3	777.6	772.9
5°	787.5	784.4	782.9	779.8	775.1	771.4	766.8	761.4	755.4	747.7	739.2
7.5°	774.4	769.8	764.5	763.0	757.6	753.0	747.7	740.0	731.7	717.9	707.2
10°	769.1	764.5	760.0	756.8	749.9	744.7	738.6	728.6	717.9	699.6	679.7
12.5°	774.4	769.8	765.3	760.0	753.8	747.7	739.2	727.1	712.5	688.9	664.5
15°	787.5	782.9	775.1	769.8	761.4	756.1	744.7	731.0	709.5	680.5	648.4
17.5°	802.0	795.1	788.2	779.8	772.1	765.3	753.0	735.5	708.8	674.4	633.1
20°	815.8	808.0	797.3	791.2	783.6	773.7	760.7	739.2	707.2	662.2	617.0
22.5°	831.7	821.8	810.3	803.4	797.3	788.9	773.7	746.1	707.2	655.2	598.8
25°	852.3	839.4	827.9	821.1	817.2	811.1	792.8	762.2	712.5	651.5	583.4
27.5°	876.7	859.9	850.1	845.5	844.7	840.2	821.8	783.6	724.8	651.5	569.0
30°	905.9	891.3	878.4	878.4	887.4	884.4	863.8	816.4	743.9	653.8	558.3
32.5°	946.3	931.7	924.2	931.7	941.7	944.7	921.0	863.0	775.1	664.5	547.6
35°	1005.8	996.7	991.3	1002.8	1022.6	1030.3	1001.3	932.5	821.1	685.0	541.5
37.5°	1084.5	1077.7	1070.8	1090.6	1128.0	1143.4	1101.3	1012.7	886.6	719.5	538.4
40°	1174.6	1175.4	1183.0	1222.8	1258.6	1290.8	1243.3	1134.1	976.7	768.3	541.5
42.5°	1281.5	1290.0	1315.8	1370.9	1440.4	1465.7	1419.8	1280.8	1089.0	827.1	549.1
45°	1414.4	1436.6	1480.9	1562.6	1646.6	1685.6	1620.6	1465.7	1230.4	921.0	570.5
47.5°	1555.8	1604.6	1679.4	1778.7	1876.5	1901.7	1821.5	1632.8	1368.6	1004.3	603.3
50°	1736.7	1796.3	1871.2	1990.3	2094.2	2109.4	2003.3	1787.9	1489.3	1076.9	634.7
52.5°	1905.6	1986.5	2081.9	2220.3	2325.6	2306.5	2169.0	1926.1	1584.8	1126.6	652.2
55°	2136.2	2220.3	2327.9	2448.5	2553.2	2507.3	2319.4	2043.7	1661.1	1163.1	657.6
57.5°	2399.6	2463.8	2569.2	2692.8	2761.7	2683.0	2467.6	2158.3	1733.7	1163.9	615.6
60°	2658.5	2733.5	2849.5	2971.0	3009.1	2873.2	2570.7	2175.9	1661.9	1038.7	492.6
62.5°	3042.0	3117.6	3176.4	3196.2	3127.4	2854.1	2450.8	1990.3	1432.8	819.5	349.0
65°	3470.4	3384.8	3271.1	3164.2	2977.1	2561.6	2113.3	1635.2	1112.0	547.6	240.6
67.5°	3582.7	3322.2	3074.8	2836.5	2487.5	2039.9	1594.0	1150.2	713.3	311.6	163.4
69°	3465.8	3085.5	2809.8	2431.7	2071.2	1526.7	1098.3	737.0	426.2	216.9	136.7
70°	3252.0	2856.4	2482.9	2078.0	1604.6	1166.2	730.1	482.7	277.9	158.1	123.0
72.5°	2453.9	1962.1	1512.2	982.2	598.8	332.2	233.6	167.3	132.1	116.2	105.4
75°	1419.1	944.7	618.7	329.9	195.5	145.1	126.8	113.1	104.7	100.8	91.6
77.5°	598.8	374.2	253.5	185.6	131.3	112.3	97.7	90.1	89.3	87.0	78.6
80°	272.6	233.6	199.3	139.8	100.0	85.6	74.9	73.3	74.9	72.5	64.2
82.5°	202.4	199.3	166.5	107.7	76.4	57.3	46.6	48.9	55.0	59.6	51.9
85°	168.8	168.8	139.8	80.2	50.5	36.7	35.9	40.4	45.8	49.7	42.0
87.5°	155.0	148.8	80.2	41.2	29.0	23.6	22.2	19.9	19.9	34.3	29.0
90°	22.2	13.7	11.7	11.9	12.7	11.9	12.5	10.7	10.7	10.7	11.7
92.5°	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	10.3	11.8	10.8	9.8	9.3	8.8	8.4	7.8	7.8	7.8	8.4
100°	24.5	28.5	26.9	25.5	24.1	22.5	20.6	18.7	18.7	18.7	20.6
102.5°	44.2	49.0	47.6	46.2	43.7	41.2	39.7	38.3	37.3	38.3	39.7
105°	66.3	70.7	69.7	68.7	66.3	63.8	61.8	59.8	59.8	59.8	61.8
107.5°	89.8	93.2	92.7	92.3	90.3	88.3	86.9	85.4	84.4	85.4	86.9



REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	114.8	117.8	118.3	118.8	117.8	116.8	115.3	113.8	114.8	113.8	115.3
112.5°	142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	144.3	144.3	145.3
115°	173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	174.7	173.7	174.7
117.5°	204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	205.2	204.2	205.2
120°	239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	238.5	238.5	239.5
122.5°	272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	271.8	270.9	271.8
125°	305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	304.3	304.3	304.3
127.5°	336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	340.5	338.6	339.1
130°	367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	373.0	372.0	373.0
132.5°	400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	407.3	406.3	406.3
135°	431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	442.7	441.7	440.2
137.5°	461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	473.0	472.1	469.6
140°	489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	501.5	499.5	497.1
142.5°	516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	526.0	524.1	523.6
145°	543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	549.7	547.7	549.1
147.5°	566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	574.2	572.2	573.7
150°	584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	598.7	594.8	593.3
152.5°	599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	616.3	611.5	609.1
155°	615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	629.2	626.2	625.2
157.5°	632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	642.8	638.0	638.0
160°	644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	653.7	647.8	648.3
162.5°	652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	661.5	655.7	656.6
165°	660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	669.3	665.5	666.5
167.5°	668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	681.2	675.3	675.3
170°	675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	688.0	683.1	682.2
172.5°	676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	688.0	683.1	682.2
175°	677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	686.0	681.2	682.2
177.5°	681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	689.0	685.0	686.6
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271734

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2	788.2
2.5°	769.1	766.1	758.3	756.8	754.6	751.5	750.7	746.9	739.2	737.8	738.6
5°	733.9	721.7	713.3	706.4	701.0	687.3	682.0	676.0	665.3	662.2	657.6
7.5°	692.8	678.2	661.4	649.1	634.7	620.2	608.7	594.2	582.7	575.8	563.7
10°	660.6	640.9	618.7	594.2	575.1	553.0	538.4	521.6	503.3	486.5	474.2
12.5°	636.2	608.7	576.6	547.6	520.1	496.4	470.4	446.7	423.9	400.9	381.2
15°	616.3	581.9	541.5	504.8	471.3	436.0	407.1	374.2	345.2	325.4	300.1
17.5°	594.9	550.6	502.5	459.8	416.3	379.5	343.0	308.6	281.1	255.1	234.5
20°	569.0	515.4	463.5	414.0	364.4	322.3	284.9	252.1	225.4	204.6	189.5
22.5°	539.9	477.3	417.0	362.7	313.1	271.8	236.7	212.3	192.5	181.0	176.4
25°	511.8	439.9	372.0	312.4	262.8	227.6	203.9	183.3	173.4	168.8	168.8
27.5°	485.7	401.7	326.2	268.1	219.9	192.5	174.1	165.7	161.2	161.2	163.4
30°	461.3	363.5	282.6	223.8	185.6	165.0	155.0	152.0	152.7	155.8	158.9
32.5°	433.1	326.8	245.1	192.5	161.2	147.4	139.8	140.6	144.4	149.7	155.0
35°	403.2	288.0	212.3	168.8	144.4	133.7	129.1	129.9	135.1	142.0	147.4
37.5°	376.5	256.6	187.0	150.5	132.1	125.2	121.5	122.2	126.0	134.5	141.3
40°	349.8	229.9	166.5	139.8	125.2	118.4	116.2	115.3	118.4	126.0	134.5
42.5°	326.8	207.0	154.3	132.1	120.6	114.5	111.5	111.5	113.1	119.1	127.6
45°	313.1	193.2	145.9	126.8	116.9	111.5	108.4	106.9	109.2	113.1	120.6
47.5°	313.1	186.4	140.6	123.0	113.7	109.2	105.4	104.7	105.4	109.2	116.9
50°	323.7	187.8	139.8	121.5	112.3	106.2	102.4	102.4	103.8	109.2	115.3
52.5°	333.0	190.9	142.0	123.0	112.3	104.7	100.0	99.4	101.6	106.9	112.3
55°	331.5	190.9	144.4	125.2	114.5	105.4	99.4	98.5	100.0	105.4	110.7
57.5°	296.4	179.5	142.0	126.8	117.6	109.2	103.0	100.8	102.4	106.9	111.5
60°	239.8	159.6	135.9	126.8	122.2	116.2	110.0	108.4	109.2	113.7	119.1
62.5°	187.8	142.0	128.3	126.0	124.4	121.5	119.1	117.6	117.6	121.5	126.0
65°	152.7	128.3	122.2	123.0	124.4	123.8	123.0	122.2	122.2	124.4	129.1
67.5°	127.6	115.3	113.7	116.2	117.6	118.4	119.1	118.4	119.1	121.5	126.8
69°	116.2	108.4	106.9	108.4	111.5	112.3	113.7	113.1	113.7	116.2	121.5
70°	109.2	103.0	101.6	103.8	106.2	106.9	108.4	107.7	108.4	110.7	116.2
72.5°	94.7	87.9	85.6	87.0	89.3	89.3	91.6	92.4	90.9	91.6	95.5
75°	80.9	73.3	69.5	70.2	70.2	70.2	71.8	71.8	70.2	69.5	70.2
77.5°	68.0	59.6	55.0	55.0	55.0	54.2	51.9	52.7	53.4	52.7	53.4
80°	53.4	46.6	42.0	42.0	42.0	40.4	39.7	39.7	41.2	42.8	42.0
82.5°	41.2	34.3	32.1	31.4	31.4	29.7	29.7	31.4	30.5	31.4	32.9
85°	29.7	24.4	22.2	22.9	22.2	20.6	21.4	23.6	23.6	22.9	24.4
87.5°	18.3	15.3	14.6	15.3	13.7	11.5	10.7	11.5	12.9	12.3	13.7
90°	11.0	10.4	10.4	9.4	9.2	8.4	8.4	8.9	10.2	10.2	9.4
92.5°	5.9	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9
95°	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	9.3	9.8	10.8	11.8	10.3	8.8	8.8	8.8	8.4	7.8
100°	22.5	24.1	25.5	26.9	28.5	24.5	20.6	16.2	11.8	10.8	9.8
102.5°	41.2	43.7	46.2	47.6	49.0	44.2	39.3	32.9	26.5	22.1	17.7
105°	63.8	66.3	68.7	69.7	70.7	66.3	61.8	54.4	47.1	41.2	35.3
107.5°	88.3	90.3	92.3	92.7	93.2	89.8	86.3	79.1	71.7	64.3	57.0

REPORT NUMBER: P271734  
 CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	116.8	117.8	118.8	118.3	117.8	114.8	111.9	106.0	100.1	92.7	85.4	0°
112.5°	146.2	146.7	147.2	146.2	145.3	142.8	140.3	135.9	131.5	125.1	118.8	2.5°
115°	175.7	177.1	178.7	177.1	175.7	173.2	170.8	167.8	164.9	160.4	156.0	5°
117.5°	206.1	208.6	211.0	209.0	207.1	204.2	201.2	199.7	198.3	195.8	193.3	7.5°
120°	240.5	242.9	245.3	243.4	241.5	239.9	238.5	235.5	232.6	230.7	228.7	10°
122.5°	272.8	275.3	277.8	275.8	273.8	272.8	271.8	269.0	266.0	264.0	262.0	12.5°
125°	304.3	306.7	309.2	308.2	307.2	305.7	304.3	301.8	299.3	296.4	293.5	15°
127.5°	339.6	339.6	339.6	339.1	338.6	336.1	333.7	333.2	332.7	329.8	326.8	17.5°
130°	374.0	374.0	374.0	372.0	370.0	367.6	365.1	364.2	363.2	361.2	359.2	20°
132.5°	406.3	407.3	408.3	405.9	403.4	400.5	397.5	397.1	396.5	395.1	393.5	22.5°
135°	438.7	439.2	439.7	437.3	434.8	431.8	428.9	428.0	427.0	425.4	424.0	25°
137.5°	467.2	466.7	466.2	465.2	464.2	461.8	459.3	457.3	455.4	453.5	451.5	27.5°
140°	494.7	493.7	492.7	491.7	490.7	489.3	487.8	484.8	481.9	481.0	480.0	30°
142.5°	523.2	523.2	523.2	520.2	517.2	516.3	515.3	513.3	511.3	509.9	508.4	32.5°
145°	550.6	551.1	551.6	548.7	545.7	543.3	540.8	540.3	539.8	538.4	536.8	35°
147.5°	575.2	574.6	574.2	571.7	569.3	566.8	564.3	563.9	563.3	563.3	563.3	37.5°
150°	591.8	590.4	588.9	587.4	586.0	584.0	582.0	582.0	582.0	582.0	582.0	40°
152.5°	606.5	604.6	602.7	601.1	599.7	599.2	598.7	598.7	598.7	598.2	597.7	42.5°
155°	624.2	621.8	619.3	616.9	614.4	615.4	616.3	617.3	618.3	616.9	615.4	45°
157.5°	638.0	637.0	636.0	634.0	632.0	632.6	633.0	633.6	634.0	633.0	632.0	47.5°
160°	648.8	650.2	651.7	648.8	645.8	644.4	642.8	642.8	642.8	643.4	643.8	50°
162.5°	657.6	658.1	658.5	656.6	654.7	652.7	650.7	649.7	648.8	650.7	652.7	52.5°
165°	667.4	665.9	664.5	662.1	659.5	660.1	660.5	660.5	660.5	662.1	663.5	55°
167.5°	675.3	673.3	671.3	668.4	665.5	668.9	672.3	673.8	675.3	674.3	673.3	57.5°
170°	681.2	678.7	676.2	674.8	673.3	675.7	678.2	679.2	680.2	679.7	679.2	60°
172.5°	681.2	680.2	679.2	677.7	676.2	676.7	677.2	677.2	677.2	678.7	680.2	62.5°
175°	683.1	682.6	682.2	679.7	677.2	677.2	677.2	677.7	678.2	680.2	682.2	65°
177.5°	688.0	687.0	686.0	683.6	681.2	681.6	682.2	683.1	684.1	685.0	686.0	67.5°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	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: P271734  
 NUMBER: IST-AF-1000-LED-E1-SL4-7027-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
788.2	788.2	788.2	788.2	788.2
733.2	735.5	725.5	730.1	727.1
653.0	649.1	648.4	646.2	641.5
559.0	556.1	546.9	549.9	543.0
462.1	461.3	444.5	445.3	436.8
372.7	359.0	352.0	342.2	347.6
288.6	277.3	262.8	258.9	264.2
217.7	206.3	199.3	193.2	190.9
180.2	173.4	169.5	167.3	165.7
174.1	172.7	171.8	170.3	169.5
170.3	171.8	171.8	171.8	170.3
166.5	169.5	170.3	169.5	168.1
162.6	165.0	165.0	164.2	162.0
157.3	159.6	159.6	158.9	157.3
151.3	152.7	153.5	153.5	154.3
146.6	148.2	149.7	151.3	153.5
141.3	143.5	144.4	147.4	150.5
134.5	137.5	139.0	141.3	144.4
127.6	131.3	132.1	135.1	138.2
124.4	127.6	127.6	129.9	132.1
120.6	122.2	121.5	123.0	123.8
116.9	118.4	117.6	119.1	119.9
113.7	115.3	116.9	118.4	119.1
115.3	117.6	118.4	120.6	121.5
122.2	125.2	128.3	131.3	133.7
129.1	132.9	139.8	153.5	158.9
132.9	138.2	154.3	178.0	184.8
130.6	137.5	156.6	181.7	190.2
126.0	131.3	152.0	178.0	185.6
119.9	125.2	145.9	174.1	181.0
96.9	100.0	123.0	149.7	154.3
71.1	73.3	90.9	101.6	100.8
55.0	58.0	64.2	64.9	64.2
43.6	45.1	48.1	48.1	48.9
33.6	34.3	35.9	34.3	33.6
25.2	24.4	23.6	22.9	22.2
14.6	14.6	12.3	10.7	9.9
8.9	9.2	8.2	6.5	4.9
5.4	4.9	4.4	4.0	4.0
6.4	5.9	5.4	4.9	4.9
7.8	7.8	7.4	6.8	6.8
9.3	8.8	8.4	7.8	7.8
15.2	12.8	11.8	10.8	10.8
30.9	26.5	24.1	21.6	20.6
52.6	48.1	44.6	41.2	40.2

**CANDELA DISTRIBUTION:**

	160°
110°	79.1
112.5°	111.4
115°	150.2
117.5°	189.5
120°	225.3
122.5°	259.1
125°	291.9
127.5°	324.8
130°	357.3
132.5°	389.7
135°	421.0
137.5°	450.9
140°	479.0
142.5°	507.9
145°	535.4
147.5°	561.9
150°	582.0
152.5°	597.2
155°	614.4
157.5°	631.6
160°	645.3
162.5°	654.7
165°	663.5
167.5°	672.3
170°	679.2
172.5°	681.2
175°	683.1
177.5°	686.6
180°	687.0

271734

IST-AF-1000-LED-E1-SL4-7027-ULG

**TION (continued):**

165°	170°	175°	180°
72.7	69.7	66.7	64.8
104.0	100.6	97.2	97.2
144.3	140.3	136.5	137.4
185.5	183.1	180.6	180.6
221.8	220.4	218.8	220.8
256.2	255.7	255.2	258.2
290.5	289.5	288.5	292.5
322.9	322.9	322.9	323.9
355.3	354.8	354.3	356.3
385.7	386.2	386.7	388.7
418.1	418.1	418.1	421.0
450.5	449.5	448.5	451.5
478.0	477.0	476.0	479.0
507.5	506.5	505.5	508.4
534.0	534.9	535.9	539.8
560.5	560.9	561.4	564.3
582.0	581.6	581.0	584.0
596.7	596.7	596.7	599.7
613.5	613.5	613.5	617.3
631.1	631.1	631.1	634.0
646.8	647.3	647.8	650.7
656.6	656.6	656.6	660.5
663.5	664.5	665.5	668.4
671.3	672.8	674.3	677.2
679.2	680.6	682.2	685.0
682.2	683.1	684.1	686.0
684.1	684.6	685.0	687.0
687.0	689.4	692.0	693.9
687.0	687.0	687.0	687.0

(END OF REPORT)