

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: P271724

Luminaire Tested: **IST-AF-800-LED-E1-SL4-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271724
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-800-LED-E1-SL4-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED 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: 5685.2 lumens
Efficiency: N/A
Efficacy: 94.4 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 - G1

Input Watts (W): 60.2
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

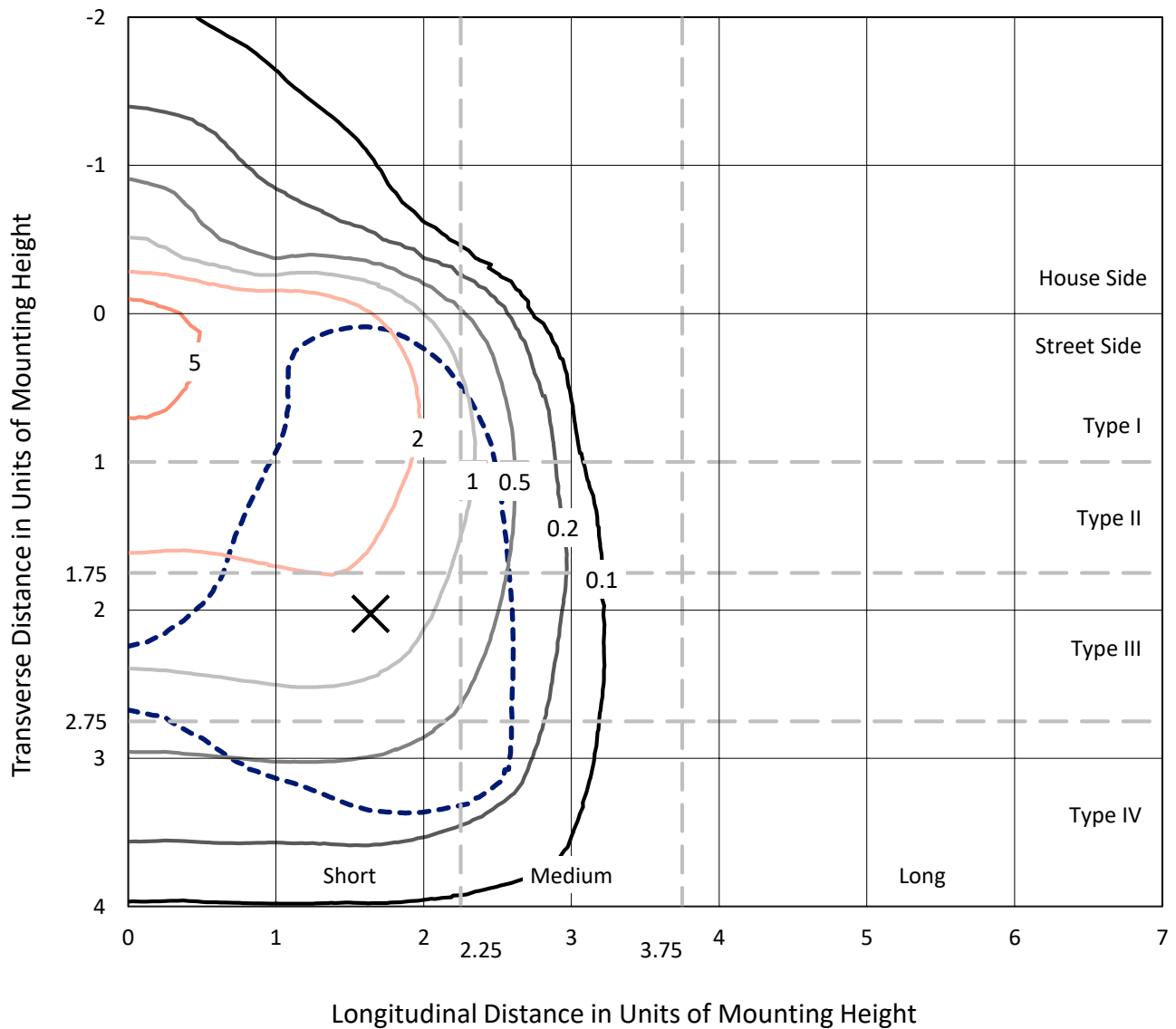


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

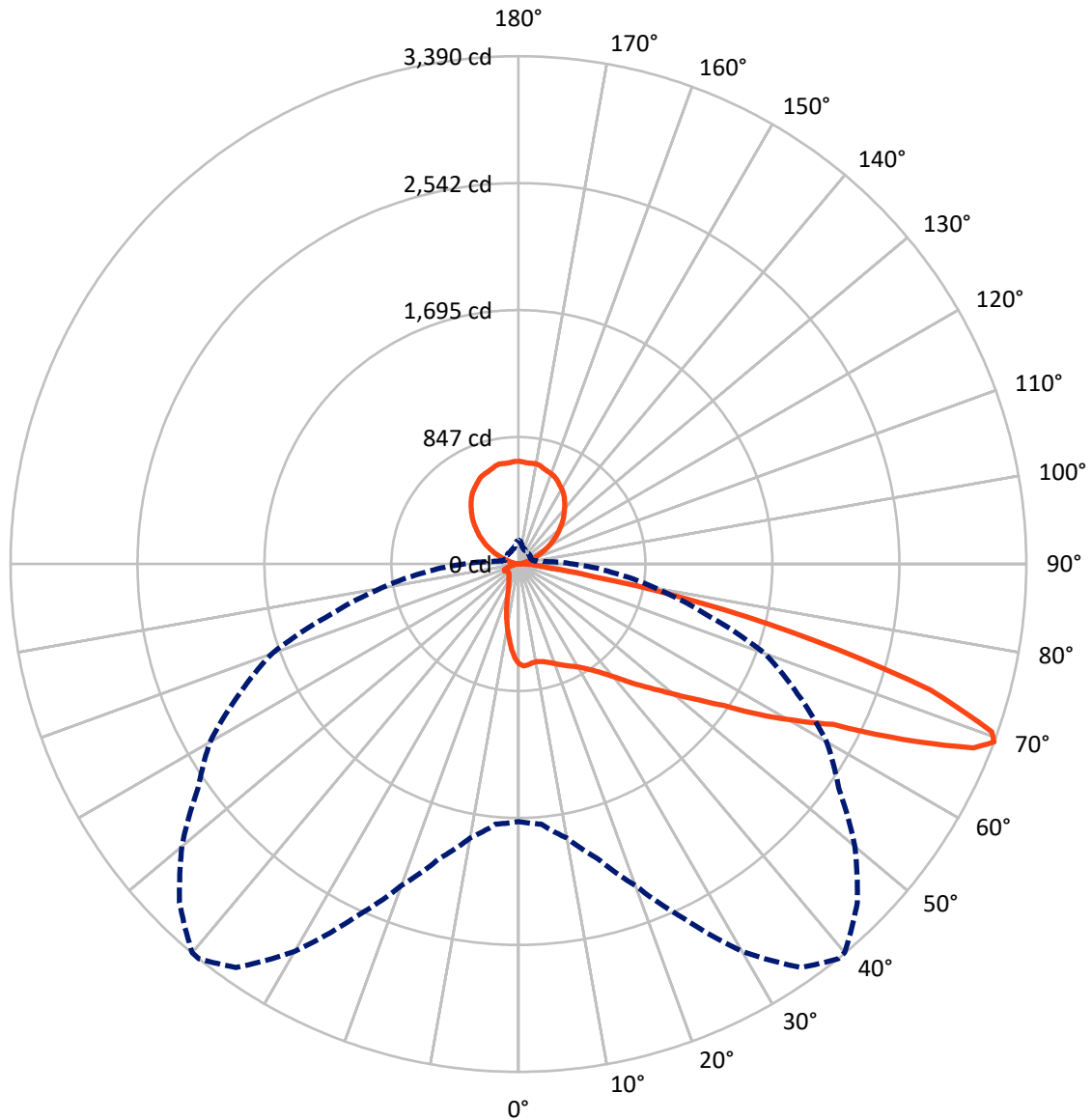


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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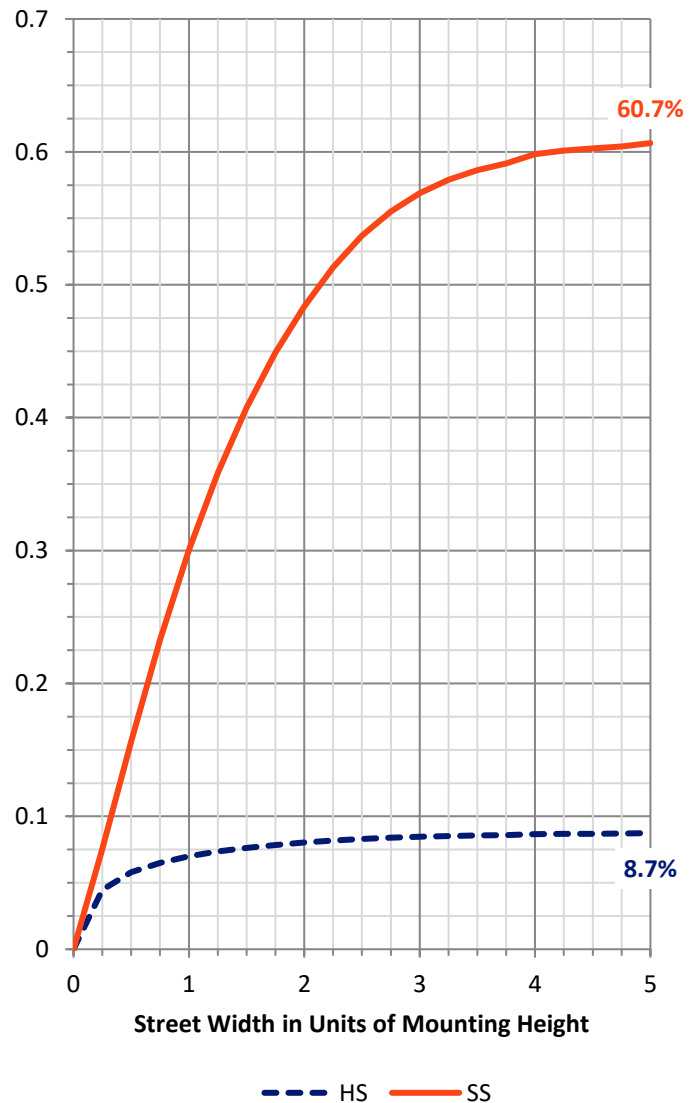
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	504.2	851.6	1355.8
	% Fixture	8.9	15.0	23.8
Street Side	Lumens	3476.8	852.5	4329.3
	% Fixture	61.2	15.0	76.2
Total	Lumens	3981.1	1704.1	5685.2
	% Fixture	70.0	30.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	1.0
10°-20°	145.1	2.6
20°-30°	225.9	4.0
30°-40°	341.4	6.0
40°-50°	546.3	9.6
50°-60°	858.7	15.1
60°-70°	1156.2	20.3
70°-80°	573.5	10.1
80°-90°	76.3	1.3
90°-100°	10.2	0.2
100°-110°	56.3	1.0
110°-120°	163.0	2.9
120°-130°	268.1	4.7
130°-140°	330.6	5.8
140°-150°	338.2	5.9
150°-160°	284.9	5.0
160°-170°	187.6	3.3
170°-180°	65.0	1.1
0°-90°	3981.1	70.0
0°-180°	5685.2	100.0



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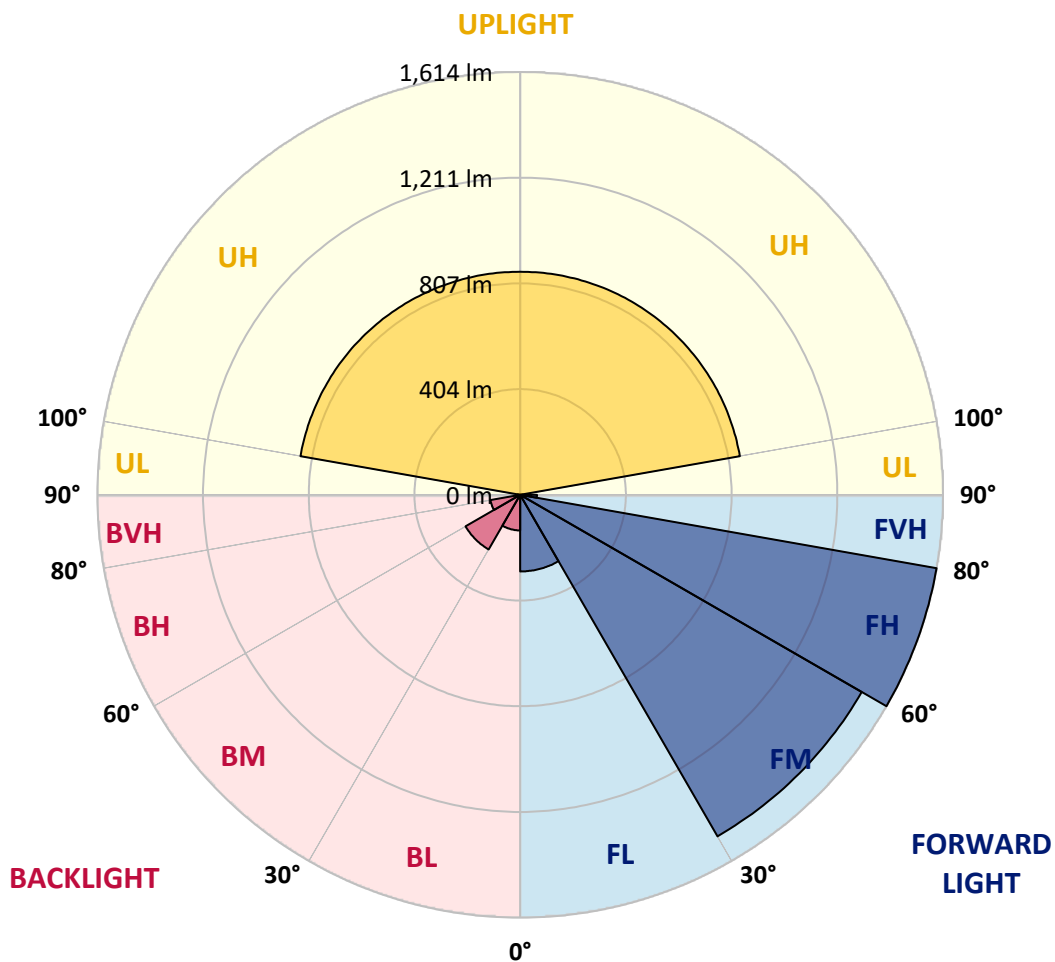
CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.7	5.1			
FM	(30°-60°)	1505.8	26.5			
FH	(60°-80°)	1614.4	28.4			G1/1800
FVH	(80°-90°)	64.0	1.1			G1/100
BL	(0°-30°)	135.9	2.4	B1/500		
BM	(30°-60°)	240.6	4.2	B1/1000		
BH	(60°-80°)	115.3	2.0	B1/500		G1/500
BVH	(80°-90°)	12.4	0.2			G1/100
UL	(90°-100°)	10.2	0.2		U2/50	
UH	(100°-180°)	851.6	15.0		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8
2.5°	682.9	683.6	683.6	684.3	681.6	681.6	682.4	679.7	681.1	680.4	677.1
5°	684.3	684.9	684.3	684.9	681.6	680.4	677.8	674.5	675.9	675.2	670.7
7.5°	681.1	681.6	680.4	681.1	677.1	674.5	670.7	668.1	666.1	665.6	659.6
10°	673.9	675.9	673.3	675.2	672.0	669.3	667.4	664.8	663.6	662.9	656.5
12.5°	663.6	664.8	665.6	668.1	668.1	668.8	668.8	666.8	667.4	666.8	661.6
15°	653.9	658.4	662.9	665.6	670.7	673.9	676.5	675.9	677.8	677.1	673.9
17.5°	653.9	657.8	665.6	673.9	683.6	688.1	692.1	692.1	692.6	691.3	686.1
20°	656.5	663.6	676.5	690.7	702.4	711.4	714.0	713.3	710.8	710.8	701.7
22.5°	677.8	682.4	696.5	712.1	728.2	737.1	737.9	735.9	730.8	729.4	718.6
25°	708.1	713.3	726.3	746.3	758.6	765.6	763.6	757.3	752.2	747.6	735.9
27.5°	755.4	759.2	772.1	785.7	792.8	795.4	787.6	778.7	772.8	770.8	755.4
30°	803.8	808.9	819.3	827.7	833.4	825.7	813.4	803.2	798.0	796.7	782.4
32.5°	863.2	863.9	871.0	873.0	873.6	860.7	843.9	834.2	832.2	829.7	818.6
35°	917.5	920.8	919.4	918.8	912.9	896.9	882.7	876.7	874.9	874.2	865.2
37.5°	965.9	971.2	967.9	962.1	955.0	942.1	927.2	920.8	927.2	923.3	925.3
40°	1013.2	1013.2	1009.2	1006.0	997.7	985.4	980.2	980.8	991.2	993.7	996.3
42.5°	1053.8	1053.3	1049.3	1046.7	1045.4	1042.8	1040.2	1052.5	1072.6	1076.5	1082.3
45°	1098.4	1097.8	1082.9	1088.0	1097.1	1099.1	1108.1	1136.5	1161.1	1163.0	1175.3
47.5°	1141.7	1136.5	1122.3	1127.6	1153.3	1166.9	1181.8	1221.9	1256.1	1263.2	1297.4
50°	1186.9	1181.8	1166.3	1175.9	1212.2	1237.3	1272.2	1327.9	1374.9	1384.6	1429.2
52.5°	1234.1	1233.5	1221.2	1236.1	1280.6	1331.6	1386.6	1449.2	1506.7	1519.0	1585.0
55°	1291.0	1287.7	1282.6	1300.7	1364.0	1432.4	1518.5	1603.7	1666.4	1688.4	1754.9
57.5°	1354.9	1353.7	1354.3	1391.7	1468.0	1572.0	1677.3	1792.4	1895.7	1911.2	1973.3
60°	1410.5	1413.1	1427.9	1486.8	1582.4	1723.2	1871.2	2026.9	2118.7	2134.8	2195.5
62.5°	1478.3	1493.3	1526.2	1600.5	1712.9	1883.5	2075.4	2240.1	2358.4	2391.4	2506.3
65°	1641.1	1652.8	1714.1	1804.0	1947.4	2165.8	2386.2	2625.8	2820.9	2850.7	2949.6
67.5°	1760.0	1789.9	1886.0	2032.8	2240.1	2519.3	2821.7	3111.8	3276.6	3290.1	3221.0
69°	1718.6	1743.3	1857.0	2034.0	2284.1	2609.0	2985.2	3288.2	3389.7	3387.0	3199.0
70°	1655.4	1678.0	1803.3	1975.2	2247.2	2598.8	2987.8	3289.4	3350.9	3327.6	3112.4
72.5°	1386.6	1406.7	1524.2	1703.8	1967.5	2316.4	2682.8	2888.9	2875.9	2856.5	2501.2
75°	865.9	864.5	967.3	1071.3	1276.1	1628.9	1901.5	2067.0	2040.5	2025.6	1605.6
77.5°	323.7	346.4	383.8	495.5	589.8	780.5	1000.8	1185.0	1236.1	1170.9	864.5
80°	168.6	180.9	205.4	244.9	281.7	322.4	387.7	498.8	516.3	481.4	348.9
82.5°	133.1	148.0	172.6	206.1	231.9	216.4	204.2	211.3	210.0	200.3	177.7
85°	100.8	118.3	158.3	192.6	229.3	193.9	154.4	135.0	120.1	120.8	128.5
87.5°	50.3	65.3	124.8	168.1	199.6	128.5	100.8	78.2	65.3	62.7	84.0
90°	20.4	20.4	31.1	39.9	52.6	30.5	29.8	24.6	19.8	19.7	26.2
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



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CATALOG NUMBER: IST-AF-800-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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8
2.5°	674.5	674.5	673.3	672.7	670.7	668.1	666.1	662.9	661.1	657.8	653.9
5°	666.1	663.6	662.3	659.6	655.9	652.6	648.8	644.2	639.1	632.6	625.5
7.5°	655.1	651.3	646.8	645.5	641.0	637.1	632.6	626.1	619.0	607.3	598.3
10°	650.6	646.8	642.8	640.3	634.6	630.0	624.8	616.3	607.3	591.8	575.1
12.5°	655.1	651.3	647.4	642.8	637.8	632.6	625.5	615.1	602.9	582.8	562.1
15°	666.1	662.3	655.9	651.3	644.2	639.6	630.0	618.3	600.2	575.7	548.5
17.5°	678.4	672.7	666.8	659.6	653.2	647.4	637.1	622.3	599.6	570.5	535.6
20°	690.1	683.6	674.5	669.3	662.9	654.5	643.5	625.5	598.3	560.3	522.1
22.5°	703.6	695.3	685.6	679.7	674.5	667.4	654.5	631.3	598.3	554.3	506.6
25°	721.1	710.1	700.4	694.6	691.3	686.1	670.7	644.8	602.9	551.1	493.7
27.5°	741.8	727.5	719.1	715.3	714.6	710.8	695.3	662.9	613.1	551.1	481.4
30°	766.3	754.0	743.1	743.1	750.8	748.2	730.8	690.7	629.4	553.1	472.3
32.5°	800.6	788.4	781.9	788.4	796.7	799.2	779.2	730.1	655.9	562.1	463.3
35°	851.0	843.1	838.7	848.4	865.2	871.6	847.1	788.9	694.6	579.6	458.1
37.5°	917.5	911.7	905.9	922.6	954.3	967.3	931.7	856.7	750.2	608.6	455.5
40°	993.7	994.4	1000.8	1034.5	1064.9	1092.0	1051.8	959.5	826.4	650.0	458.1
42.5°	1084.3	1091.4	1113.3	1159.8	1218.6	1239.9	1201.1	1083.5	921.4	699.8	464.5
45°	1196.6	1215.4	1252.9	1321.9	1393.0	1426.0	1371.2	1239.9	1041.0	779.2	482.7
47.5°	1316.2	1357.5	1420.8	1504.8	1587.6	1608.9	1541.0	1381.4	1157.8	849.7	510.5
50°	1469.3	1519.8	1583.0	1683.9	1771.6	1784.7	1694.8	1512.6	1260.0	911.0	537.0
52.5°	1612.1	1680.5	1761.4	1878.3	1967.5	1951.3	1835.0	1629.5	1340.7	953.0	551.8
55°	1807.2	1878.3	1969.4	2071.5	2160.1	2121.3	1962.3	1729.1	1405.4	984.0	556.3
57.5°	2030.1	2084.3	2173.6	2278.2	2336.4	2269.8	2087.6	1826.0	1466.8	984.7	520.7
60°	2249.2	2312.5	2410.7	2513.5	2545.8	2430.7	2174.9	1840.9	1405.9	878.7	416.7
62.5°	2573.6	2637.5	2687.3	2704.1	2645.9	2414.6	2073.5	1683.9	1212.2	693.3	295.4
65°	2936.0	2863.7	2767.4	2676.9	2518.6	2167.1	1787.9	1383.4	940.7	463.3	203.6
67.5°	3031.0	2810.7	2601.3	2399.7	2104.5	1725.8	1348.4	973.0	603.5	263.7	138.2
69°	2932.2	2610.4	2377.2	2057.3	1752.3	1291.7	929.2	623.5	360.5	183.5	115.6
70°	2751.1	2416.5	2100.6	1758.2	1357.5	986.7	617.8	408.4	235.2	133.8	104.0
72.5°	2076.1	1659.9	1279.4	830.9	506.6	281.1	197.6	141.6	111.7	98.3	89.1
75°	1200.6	799.2	523.4	279.1	165.4	122.8	107.3	95.6	88.6	85.2	77.5
77.5°	506.6	316.7	214.5	157.0	111.1	95.0	82.7	76.3	75.5	73.6	66.6
80°	230.7	197.6	168.6	118.3	84.6	72.3	63.3	62.1	63.3	61.4	54.3
82.5°	171.3	168.6	140.9	91.1	64.6	48.5	39.4	41.3	46.5	50.3	43.9
85°	142.8	142.8	118.3	67.8	42.6	31.0	30.4	34.2	38.8	42.0	35.6
87.5°	131.2	126.0	67.8	34.9	24.5	20.0	18.8	16.8	16.8	29.0	24.5
90°	19.9	12.7	11.0	11.4	12.0	11.4	11.7	10.2	10.2	10.2	11.0
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: P271724

CATALOG NUMBER: IST-AF-800-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: P271724

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8	666.8
2.5°	650.6	648.0	641.6	640.3	638.3	635.8	635.1	631.9	625.5	624.1	624.8
5°	620.9	610.6	603.5	597.6	593.2	581.6	577.0	571.8	562.8	560.3	556.3
7.5°	586.1	573.7	559.6	549.2	537.0	524.7	515.0	502.7	493.0	487.2	476.8
10°	558.8	542.0	523.4	502.7	486.5	467.7	455.5	441.2	425.8	411.6	401.3
12.5°	538.3	515.0	487.8	463.3	440.0	420.0	397.9	378.0	358.6	339.2	322.4
15°	521.5	492.3	458.1	427.1	398.7	368.9	344.4	316.7	292.1	275.2	254.0
17.5°	503.3	466.0	425.2	389.0	352.1	321.1	290.2	261.0	237.8	215.9	198.3
20°	481.4	436.1	392.2	350.2	308.2	272.6	241.0	213.2	190.6	173.1	160.3
22.5°	456.8	403.9	352.8	307.0	264.9	230.1	200.3	179.6	162.9	153.1	149.3
25°	432.9	372.2	314.7	264.3	222.3	192.6	172.6	155.0	146.6	142.8	142.8
27.5°	411.0	339.9	275.9	226.8	186.1	162.9	147.3	140.2	136.4	136.4	138.2
30°	390.2	307.6	239.1	189.4	157.0	139.6	131.2	128.5	129.3	131.8	134.4
32.5°	366.4	276.6	207.4	162.9	136.4	124.8	118.3	118.8	122.1	126.6	131.2
35°	341.2	243.6	179.6	142.8	122.1	113.1	109.2	109.9	114.4	120.1	124.8
37.5°	318.6	217.1	158.3	127.3	111.7	106.0	102.8	103.3	106.6	113.7	119.6
40°	295.9	194.6	140.9	118.3	106.0	100.1	98.3	97.6	100.1	106.6	113.7
42.5°	276.6	175.1	130.5	111.7	102.0	96.8	94.3	94.3	95.6	100.8	107.9
45°	264.9	163.5	123.3	107.3	98.8	94.3	91.8	90.5	92.3	95.6	102.0
47.5°	264.9	157.7	118.8	104.0	96.3	92.3	89.1	88.6	89.1	92.3	98.8
50°	273.9	158.9	118.3	102.8	95.0	89.8	86.6	86.6	87.9	92.3	97.6
52.5°	281.7	161.5	120.1	104.0	95.0	88.6	84.6	84.0	86.0	90.5	95.0
55°	280.5	161.5	122.1	106.0	96.8	89.1	84.0	83.4	84.6	89.1	93.7
57.5°	250.6	151.8	120.1	107.3	99.5	92.3	87.2	85.2	86.6	90.5	94.3
60°	202.8	135.0	115.1	107.3	103.3	98.3	93.1	91.8	92.3	96.3	100.8
62.5°	158.9	120.1	108.5	106.6	105.3	102.8	100.8	99.5	99.5	102.8	106.6
65°	129.3	108.5	103.3	104.0	105.3	104.7	104.0	103.3	103.3	105.3	109.2
67.5°	107.9	97.6	96.3	98.3	99.5	100.1	100.8	100.1	100.8	102.8	107.3
69°	98.3	91.8	90.5	91.8	94.3	95.0	96.3	95.6	96.3	98.3	102.8
70°	92.3	87.2	86.0	87.9	89.8	90.5	91.8	91.1	91.8	93.7	98.3
72.5°	80.1	74.3	72.3	73.6	75.5	75.5	77.5	78.2	76.9	77.5	80.8
75°	68.5	62.1	58.7	59.5	59.5	59.5	60.7	60.7	59.5	58.7	59.5
77.5°	57.5	50.3	46.5	46.5	46.5	45.8	43.9	44.6	45.3	44.6	45.3
80°	45.3	39.4	35.6	35.6	35.6	34.2	33.6	33.6	34.9	36.2	35.6
82.5°	34.9	29.0	27.1	26.5	26.5	25.2	25.2	26.5	25.8	26.5	27.8
85°	25.2	20.8	18.8	19.3	18.8	17.4	18.1	20.0	20.0	19.3	20.8
87.5°	15.5	12.9	12.3	12.9	11.6	9.7	9.1	9.7	11.0	10.3	11.6
90°	10.8	10.2	10.2	9.2	8.8	8.2	8.2	8.6	9.8	9.8	9.2
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: P271724
 CATALOG NUMBER: IST-AF-800-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: P271724
 NUMBER: IST-AF-800-LED-E1-SL4-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
666.8	666.8	666.8	666.8	666.8
620.3	622.3	613.8	617.8	615.1
552.5	549.2	548.5	546.6	542.8
473.0	470.4	462.6	465.2	459.4
390.9	390.2	376.0	376.7	369.7
315.3	303.6	297.9	289.4	293.9
244.2	234.5	222.3	219.1	223.6
184.2	174.5	168.6	163.5	161.5
152.5	146.6	143.4	141.6	140.2
147.3	146.1	145.3	144.1	143.4
144.1	145.3	145.3	145.3	144.1
140.9	143.4	144.1	143.4	142.1
137.6	139.6	139.6	138.9	137.0
133.1	135.0	135.0	134.4	133.1
127.9	129.3	129.9	129.9	130.5
124.1	125.3	126.6	127.9	129.9
119.6	121.5	122.1	124.8	127.3
113.7	116.3	117.6	119.6	122.1
107.9	111.1	111.7	114.4	117.0
105.3	107.9	107.9	109.9	111.7
102.0	103.3	102.8	104.0	104.7
98.8	100.1	99.5	100.8	101.5
96.3	97.6	98.8	100.1	100.8
97.6	99.5	100.1	102.0	102.8
103.3	106.0	108.5	111.1	113.1
109.2	112.4	118.3	129.9	134.4
112.4	117.0	130.5	150.6	156.3
110.5	116.3	132.5	153.8	160.9
106.6	111.1	128.5	150.6	157.0
101.5	106.0	123.3	147.3	153.1
82.0	84.6	104.0	126.6	130.5
60.1	62.1	76.9	86.0	85.2
46.5	49.0	54.3	55.0	54.3
36.8	38.1	40.7	40.7	41.3
28.5	29.0	30.4	29.0	28.5
21.3	20.8	20.0	19.3	18.8
12.3	12.3	10.3	9.1	8.4
8.6	8.8	7.8	6.2	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

271724

IST-AF-800-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)