

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: P271714

Luminaire Tested: **IST-AF-600-LED-E1-SL4-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271714
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-600-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: 4884.4 lumens
Efficiency: N/A
Efficacy: 96.9 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: B0 - U5 - G1

Input Watts (W): 50.4
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

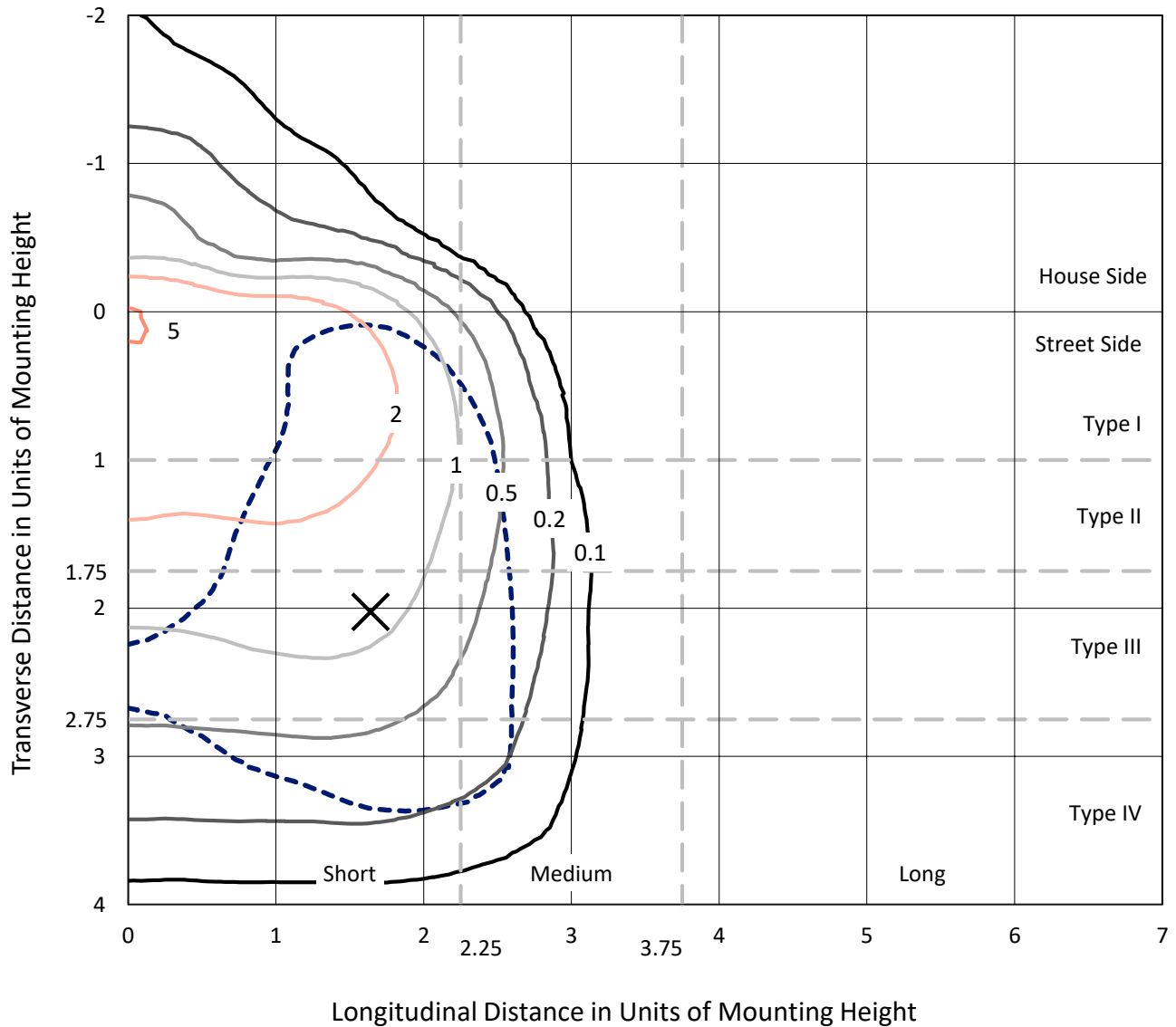


REPORT NUMBER: P271714

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

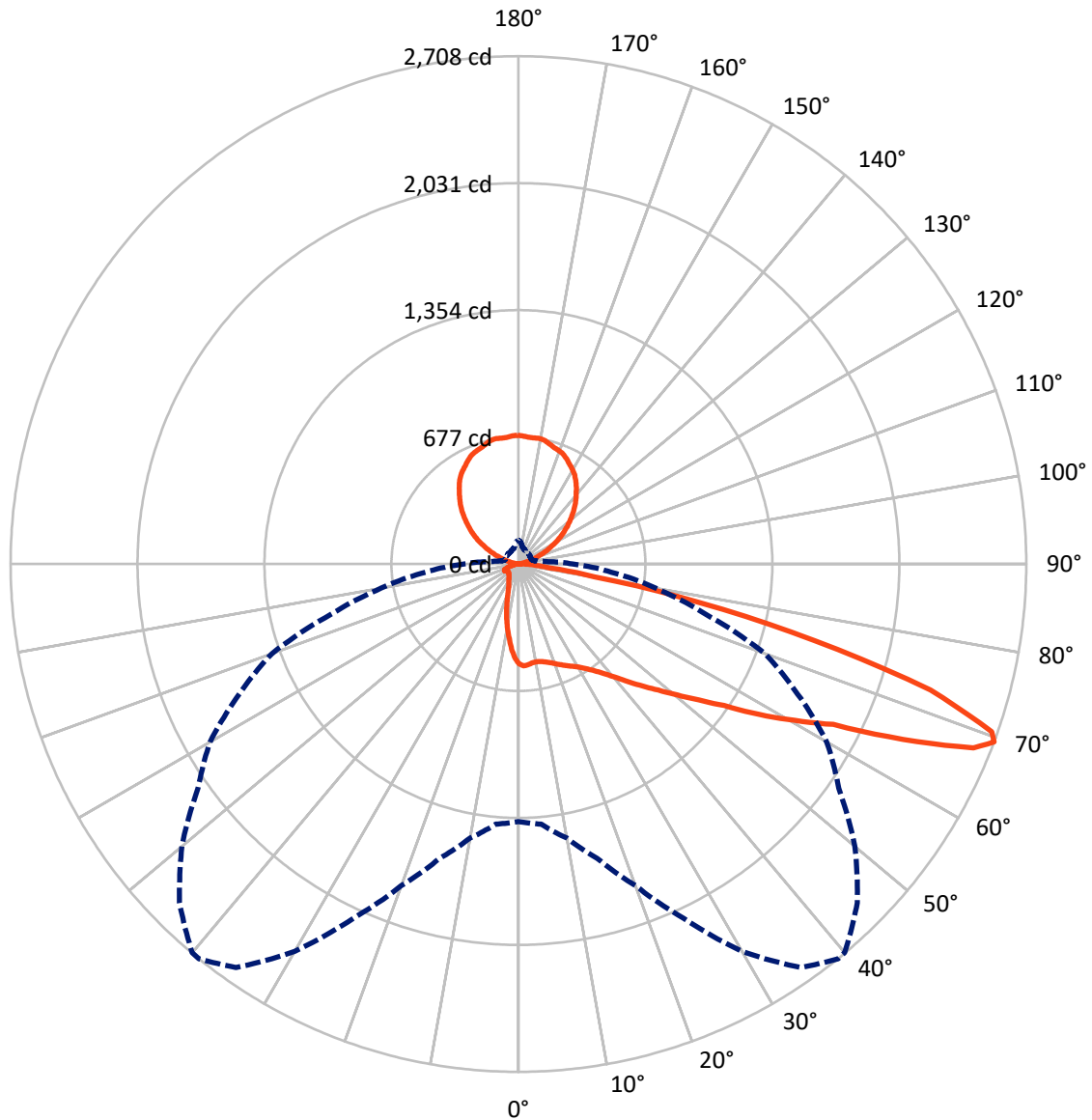


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271714

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P271714

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

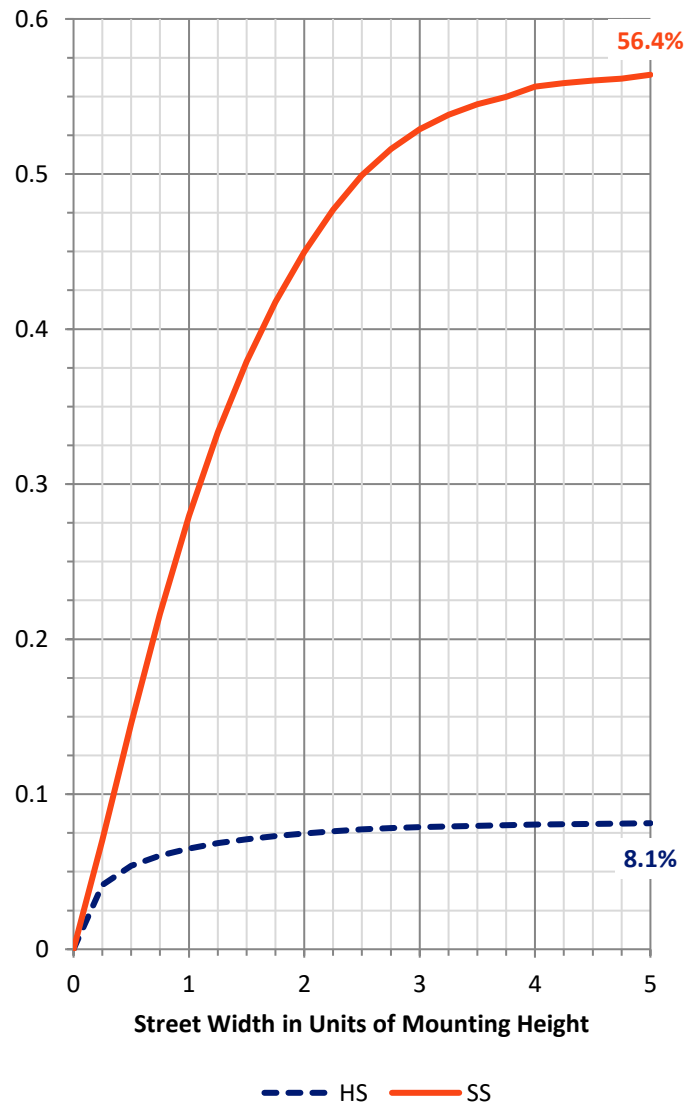
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	402.9	851.6	1254.5
	% Fixture	8.2	17.4	25.7
Street Side	Lumens	2777.6	852.3	3629.9
	% Fixture	56.9	17.4	74.3
Total	Lumens	3180.5	1703.9	4884.4
	% Fixture	65.1	34.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	0.9
10°-20°	115.9	2.4
20°-30°	180.5	3.7
30°-40°	272.7	5.6
40°-50°	436.5	8.9
50°-60°	686.0	14.0
60°-70°	923.6	18.9
70°-80°	458.2	9.4
80°-90°	61.2	1.3
90°-100°	10.0	0.2
100°-110°	56.3	1.2
110°-120°	163.0	3.3
120°-130°	268.1	5.5
130°-140°	330.6	6.8
140°-150°	338.2	6.9
150°-160°	284.9	5.8
160°-170°	187.6	3.8
170°-180°	65.0	1.3
0°-90°	3180.5	65.1
0°-180°	4884.4	100.0



REPORT NUMBER: P271714

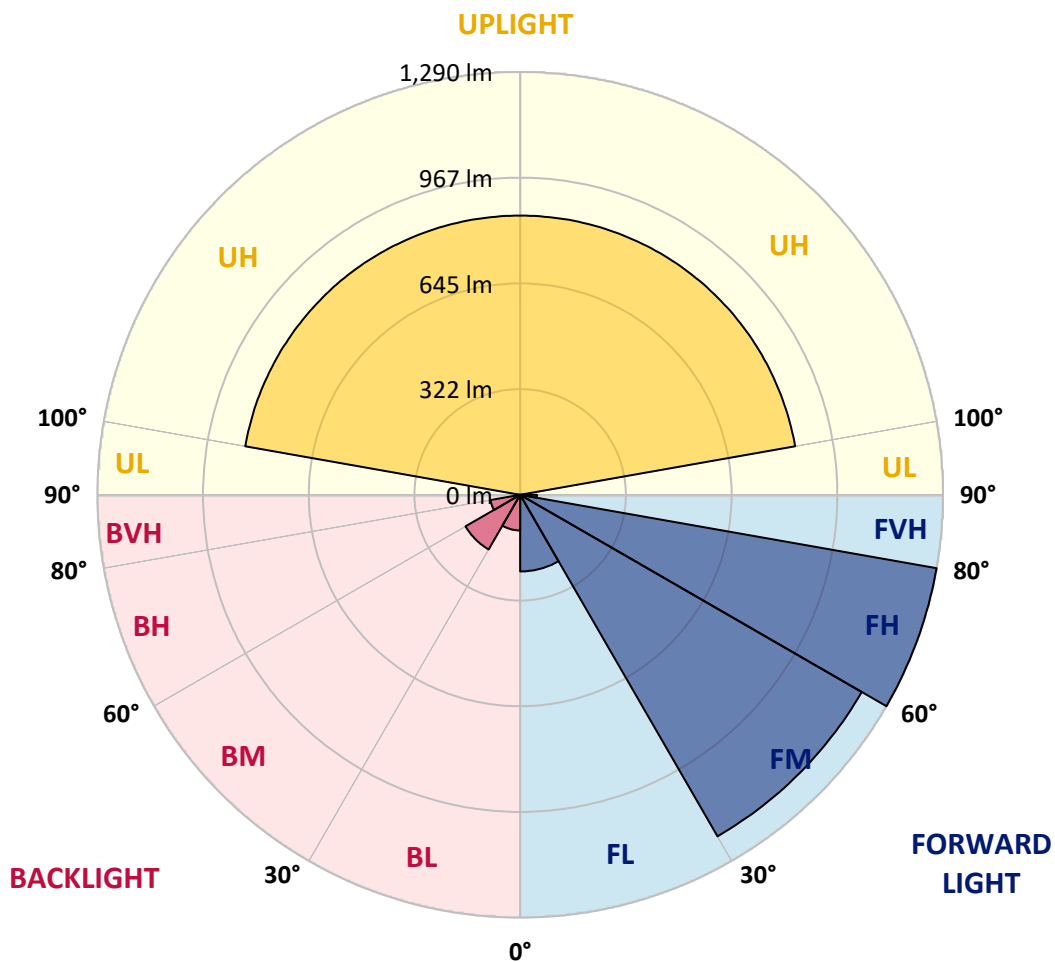
CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.8	4.8			
FM	(30°-60°)	1202.9	24.6			
FH	(60°-80°)	1289.7	26.4			G1/1800
FVH	(80°-90°)	51.2	1.0			G1/100
BL	(0°-30°)	108.6	2.2	B0/110		
BM	(30°-60°)	192.2	3.9	B0/220		
BH	(60°-80°)	92.1	1.9	B0/110		G0/110
BVH	(80°-90°)	10.0	0.2			G0/10
UL	(90°-100°)	10.0	0.2		U1/10	
UH	(100°-180°)	851.6	17.4		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





REPORT NUMBER: P271714

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7
2.5°	545.6	546.1	546.1	546.6	544.6	544.6	545.1	543.0	544.0	543.6	541.0
5°	546.6	547.2	546.6	547.2	544.6	543.6	541.5	538.9	539.9	539.4	535.7
7.5°	544.0	544.6	543.6	544.0	541.0	538.9	535.7	533.8	532.2	531.7	527.0
10°	538.4	539.9	537.8	539.4	536.7	534.7	533.2	531.2	530.1	529.6	524.4
12.5°	530.1	531.2	531.7	533.8	533.8	534.2	534.2	532.7	533.2	532.7	528.6
15°	522.4	526.0	529.6	531.7	535.7	538.4	540.4	539.9	541.5	541.0	538.4
17.5°	522.4	525.5	531.7	538.4	546.1	549.8	552.9	552.9	553.4	552.3	548.1
20°	524.4	530.1	540.4	551.8	561.1	568.3	570.3	569.9	567.8	567.8	560.5
22.5°	541.5	545.1	556.4	568.9	581.7	589.0	589.5	587.9	583.8	582.8	573.9
25°	565.8	569.9	580.1	596.1	606.0	611.7	610.1	605.0	600.9	597.2	587.9
27.5°	603.4	606.4	616.9	627.6	633.3	635.4	629.3	622.0	617.3	615.8	603.4
30°	642.1	646.2	654.5	661.2	665.8	659.6	649.8	641.6	637.4	636.4	625.1
32.5°	689.6	690.1	695.7	697.4	697.8	687.6	674.1	666.5	664.8	662.8	654.0
35°	732.9	735.5	734.5	733.9	729.3	716.5	705.1	700.5	698.9	698.4	691.2
37.5°	771.6	775.8	773.2	768.6	762.9	752.6	740.7	735.5	740.7	737.6	739.1
40°	809.4	809.4	806.3	803.6	797.0	787.2	783.1	783.5	791.9	793.9	796.0
42.5°	841.9	841.4	838.3	836.2	835.2	833.1	831.0	840.8	856.8	859.9	864.6
45°	877.6	876.9	865.1	869.2	876.5	878.0	885.2	908.0	927.6	929.0	938.9
47.5°	912.0	908.0	896.6	900.7	921.4	932.2	944.1	976.1	1003.5	1009.2	1036.5
50°	948.3	944.1	931.7	939.4	968.4	988.5	1016.3	1060.8	1098.4	1106.2	1141.7
52.5°	985.9	985.4	975.6	987.5	1023.1	1063.9	1107.7	1157.7	1203.7	1213.5	1266.3
55°	1031.3	1028.6	1024.6	1039.1	1089.6	1144.4	1213.0	1281.2	1331.2	1348.7	1402.0
57.5°	1082.4	1081.4	1081.9	1111.8	1172.7	1255.8	1340.0	1431.9	1514.5	1526.8	1576.3
60°	1126.8	1128.9	1140.8	1187.6	1264.2	1376.7	1494.8	1619.3	1692.6	1705.4	1754.0
62.5°	1181.0	1192.9	1219.2	1278.6	1368.4	1504.6	1657.9	1789.5	1884.0	1910.3	2002.2
65°	1311.1	1320.4	1369.4	1441.2	1555.8	1730.2	1906.2	2097.7	2253.6	2277.3	2356.3
67.5°	1406.0	1429.8	1506.6	1623.9	1789.5	2012.6	2254.2	2485.9	2617.5	2628.4	2573.1
69°	1373.0	1392.6	1483.6	1624.9	1824.6	2084.2	2384.7	2626.8	2707.9	2705.8	2555.6
70°	1322.5	1340.5	1440.6	1578.0	1795.3	2076.1	2386.8	2627.8	2676.9	2658.4	2486.4
72.5°	1107.7	1123.7	1217.7	1361.1	1571.8	1850.5	2143.2	2307.8	2297.4	2282.1	1998.1
75°	691.7	690.7	772.7	855.8	1019.5	1301.3	1519.1	1651.3	1630.1	1618.2	1282.7
77.5°	258.6	276.7	306.6	396.0	471.3	623.5	799.5	946.6	987.5	935.3	690.7
80°	134.7	144.5	164.1	195.7	225.0	257.5	309.6	398.5	412.4	384.6	278.7
82.5°	106.3	118.1	137.8	164.7	185.3	172.9	163.1	168.8	167.7	160.0	141.9
85°	80.5	94.4	126.4	153.8	183.3	154.9	123.3	107.9	96.0	96.5	102.8
87.5°	40.2	52.1	99.6	134.2	159.4	102.8	80.5	62.4	52.1	50.0	67.1
90°	17.2	17.2	26.1	33.1	43.5	25.9	25.4	21.3	17.2	17.2	22.4
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: P271714

CATALOG NUMBER: IST-AF-600-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: P271714

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7
2.5°	538.9	538.9	537.8	537.4	535.7	533.8	532.2	529.6	528.0	525.5	522.4
5°	532.2	530.1	529.1	527.0	523.9	521.4	518.2	514.5	510.5	505.4	499.6
7.5°	523.4	520.3	516.6	515.6	512.0	509.0	505.4	500.2	494.4	485.3	478.0
10°	519.8	516.6	513.7	511.6	506.8	503.3	499.2	492.5	485.3	472.8	459.4
12.5°	523.4	520.3	517.2	513.7	509.5	505.4	499.6	491.5	481.6	465.6	449.1
15°	532.2	529.1	523.9	520.3	514.5	511.0	503.3	494.0	479.5	459.9	438.2
17.5°	541.9	537.4	532.7	527.0	521.8	517.2	509.0	497.1	479.0	455.8	428.0
20°	551.3	546.1	538.9	534.7	529.6	522.9	514.1	499.6	478.0	447.5	417.0
22.5°	562.1	555.4	547.7	543.0	538.9	533.2	522.9	504.3	478.0	442.9	404.7
25°	576.0	567.3	559.6	555.0	552.3	548.1	535.7	515.2	481.6	440.3	394.4
27.5°	592.5	581.2	574.5	571.4	571.0	567.8	555.4	529.6	489.8	440.3	384.6
30°	612.1	602.3	593.6	593.6	599.8	597.7	583.8	551.8	502.7	441.9	377.3
32.5°	639.5	629.7	624.6	629.7	636.4	638.5	622.5	583.3	523.9	449.1	370.1
35°	679.7	673.5	670.0	677.7	691.2	696.4	676.7	630.3	555.0	463.0	366.0
37.5°	732.9	728.3	723.7	737.1	762.4	772.7	744.3	684.5	599.3	486.3	363.9
40°	793.9	794.4	799.5	826.4	850.7	872.3	840.4	766.5	660.2	519.3	366.0
42.5°	866.1	871.9	889.3	926.5	973.5	990.5	959.6	865.7	736.1	559.0	371.1
45°	956.0	970.9	1000.8	1056.0	1112.9	1139.2	1095.3	990.5	831.5	622.5	385.6
47.5°	1051.5	1084.4	1135.1	1202.2	1268.2	1285.3	1231.0	1103.6	925.0	678.8	407.8
50°	1173.7	1214.0	1264.6	1345.1	1415.4	1425.7	1353.9	1208.4	1006.6	727.8	428.9
52.5°	1287.9	1342.6	1407.0	1500.5	1571.8	1558.9	1465.9	1301.8	1071.0	761.3	440.8
55°	1443.8	1500.5	1573.3	1654.9	1725.6	1694.7	1567.6	1381.2	1122.7	786.2	444.4
57.5°	1621.8	1665.2	1736.4	1820.1	1866.5	1813.3	1667.7	1458.7	1171.7	786.6	416.1
60°	1796.8	1847.4	1925.9	2007.9	2033.8	1941.9	1737.4	1470.5	1123.2	701.9	332.9
62.5°	2056.0	2107.1	2146.8	2160.2	2113.7	1928.9	1656.5	1345.1	968.4	553.9	235.9
65°	2345.5	2287.6	2210.8	2138.5	2012.0	1731.2	1428.2	1105.2	751.5	370.1	162.6
67.5°	2421.4	2245.3	2078.0	1917.1	1681.2	1378.7	1077.2	777.3	482.1	210.7	110.4
69°	2342.4	2085.3	1898.9	1643.4	1399.9	1031.8	742.3	498.1	288.1	146.6	92.3
70°	2197.8	1930.5	1678.0	1404.5	1084.4	788.3	493.5	326.3	187.8	106.9	83.1
72.5°	1658.5	1326.1	1022.0	663.8	404.7	224.6	157.9	113.1	89.3	78.4	71.2
75°	959.0	638.5	418.1	223.0	132.1	98.1	85.7	76.4	70.8	68.1	61.9
77.5°	404.7	253.0	171.4	125.4	88.8	75.9	66.0	60.9	60.4	58.9	53.2
80°	184.3	157.9	134.7	94.4	67.6	57.9	50.6	49.6	50.6	49.0	43.4
82.5°	136.8	134.7	112.5	72.9	51.7	38.6	31.5	33.1	37.2	40.2	35.1
85°	114.1	114.1	94.4	54.2	34.0	24.7	24.3	27.4	31.0	33.6	28.4
87.5°	104.8	100.7	54.2	27.8	19.7	16.0	15.0	13.5	13.5	23.3	19.7
90°	17.2	11.5	10.4	10.9	11.4	10.9	11.0	9.4	9.4	9.4	10.4
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: P271714

CATALOG NUMBER: IST-AF-600-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: P271714

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7
2.5°	519.8	517.7	512.6	511.6	510.0	507.9	507.5	504.8	499.6	498.6	499.2
5°	496.0	487.8	482.1	477.4	473.9	464.5	460.9	456.8	449.6	447.5	444.4
7.5°	468.2	458.3	447.0	438.7	428.9	419.1	411.4	401.6	393.9	389.1	380.9
10°	446.5	433.1	418.1	401.6	388.7	373.8	363.9	352.6	340.2	328.8	320.5
12.5°	430.0	411.4	389.8	370.1	351.5	335.4	318.0	302.0	286.5	271.0	257.5
15°	416.5	393.3	366.0	341.2	318.4	294.7	275.2	253.0	233.3	219.8	202.8
17.5°	402.1	372.2	339.6	310.7	281.3	256.6	231.8	208.6	189.9	172.5	158.6
20°	384.6	348.5	313.3	279.7	246.2	217.7	192.6	170.4	152.3	138.2	128.0
22.5°	364.9	322.6	281.8	245.1	211.6	183.7	160.0	143.5	130.1	122.3	119.3
25°	345.8	297.2	251.3	211.1	177.5	153.8	137.8	123.9	117.2	114.1	114.1
27.5°	328.3	271.5	220.4	181.2	148.7	130.1	117.7	112.0	109.0	109.0	110.4
30°	311.8	245.7	191.0	151.3	125.4	111.5	104.8	102.8	103.2	105.3	107.3
32.5°	292.7	220.9	165.6	130.1	109.0	99.6	94.4	95.0	97.6	101.1	104.8
35°	272.5	194.7	143.5	114.1	97.6	90.3	87.2	87.8	91.4	96.0	99.6
37.5°	254.5	173.5	126.4	101.7	89.3	84.6	82.0	82.6	85.2	90.9	95.5
40°	236.4	155.4	112.5	94.4	84.6	79.9	78.4	78.0	79.9	85.2	90.9
42.5°	220.9	139.9	104.2	89.3	81.6	77.4	75.4	75.4	76.4	80.5	86.1
45°	211.6	130.6	98.5	85.7	79.1	75.4	73.3	72.2	73.8	76.4	81.6
47.5°	211.6	125.9	95.0	83.1	77.0	73.8	71.2	70.8	71.2	73.8	79.1
50°	218.8	127.0	94.4	82.0	75.9	71.8	69.2	69.2	70.2	73.8	78.0
52.5°	225.0	129.1	96.0	83.1	75.9	70.8	67.6	67.1	68.6	72.2	75.9
55°	223.9	129.1	97.6	84.6	77.4	71.2	67.1	66.6	67.6	71.2	74.9
57.5°	200.3	121.3	96.0	85.7	79.5	73.8	69.7	68.1	69.2	72.2	75.4
60°	162.1	107.9	91.9	85.7	82.6	78.4	74.3	73.3	73.8	77.0	80.5
62.5°	127.0	96.0	86.8	85.2	84.1	82.0	80.5	79.5	79.5	82.0	85.2
65°	103.2	86.8	82.6	83.1	84.1	83.6	83.1	82.6	82.6	84.1	87.2
67.5°	86.1	78.0	77.0	78.4	79.5	79.9	80.5	79.9	80.5	82.0	85.7
69°	78.4	73.3	72.2	73.3	75.4	75.9	77.0	76.4	77.0	78.4	82.0
70°	73.8	69.7	68.6	70.2	71.8	72.2	73.3	72.9	73.3	74.9	78.4
72.5°	64.0	59.4	57.9	58.9	60.4	60.4	61.9	62.4	61.4	61.9	64.5
75°	54.7	49.6	47.0	47.5	47.5	47.5	48.5	48.5	47.5	47.0	47.5
77.5°	45.9	40.2	37.2	37.2	37.2	36.7	35.1	35.7	36.1	35.7	36.1
80°	36.1	31.5	28.4	28.4	28.4	27.4	26.8	26.8	27.8	28.9	28.4
82.5°	27.8	23.3	21.6	21.2	21.2	20.1	20.1	21.2	20.6	21.2	22.2
85°	20.1	16.5	15.0	15.5	15.0	13.9	14.5	16.0	16.0	15.5	16.5
87.5°	12.4	10.3	9.8	10.3	9.3	7.7	7.3	7.7	8.7	8.3	9.3
90°	10.4	9.9	9.9	8.9	8.4	7.9	7.9	8.4	9.4	9.4	8.9
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: P271714
 CATALOG NUMBER: IST-AF-600-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: P271714
 NUMBER: IST-AF-600-LED-E1-SL4-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
532.7	532.7	532.7	532.7	532.7
495.5	497.1	490.4	493.5	491.5
441.3	438.7	438.2	436.7	433.6
377.8	375.9	369.7	371.7	367.0
312.3	311.8	300.4	300.9	295.3
251.9	242.6	237.9	231.2	234.9
195.1	187.4	177.5	175.0	178.7
147.1	139.3	134.7	130.6	129.1
121.8	117.2	114.6	113.1	112.0
117.7	116.7	116.2	115.2	114.6
115.2	116.2	116.2	116.2	115.2
112.5	114.6	115.2	114.6	113.5
110.0	111.5	111.5	111.0	109.4
106.3	107.9	107.9	107.3	106.3
102.1	103.2	103.8	103.8	104.2
99.2	100.1	101.1	102.1	103.8
95.5	97.1	97.6	99.6	101.7
90.9	93.0	94.0	95.5	97.6
86.1	88.8	89.3	91.4	93.4
84.1	86.1	86.1	87.8	89.3
81.6	82.6	82.0	83.1	83.6
79.1	79.9	79.5	80.5	81.0
77.0	78.0	79.1	79.9	80.5
78.0	79.5	79.9	81.6	82.0
82.6	84.6	86.8	88.8	90.3
87.2	89.8	94.4	103.8	107.3
89.8	93.4	104.2	120.2	125.0
88.2	93.0	105.8	122.9	128.5
85.2	88.8	102.8	120.2	125.4
81.0	84.6	98.5	117.7	122.3
65.6	67.6	83.1	101.1	104.2
48.0	49.6	61.4	68.6	68.1
37.2	39.3	43.4	43.8	43.4
29.5	30.5	32.5	32.5	33.1
22.6	23.3	24.3	23.3	22.6
17.1	16.5	16.0	15.5	15.0
9.8	9.8	8.3	7.3	6.6
8.4	8.4	7.5	6.0	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

271714

IST-AF-600-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)