

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: P227083

Luminaire Tested: **IST-AF-600-LED-E1-SL4-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227083
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-SL4-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5396.8 lumens
Efficiency: N/A
Efficacy: 107.1 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): 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

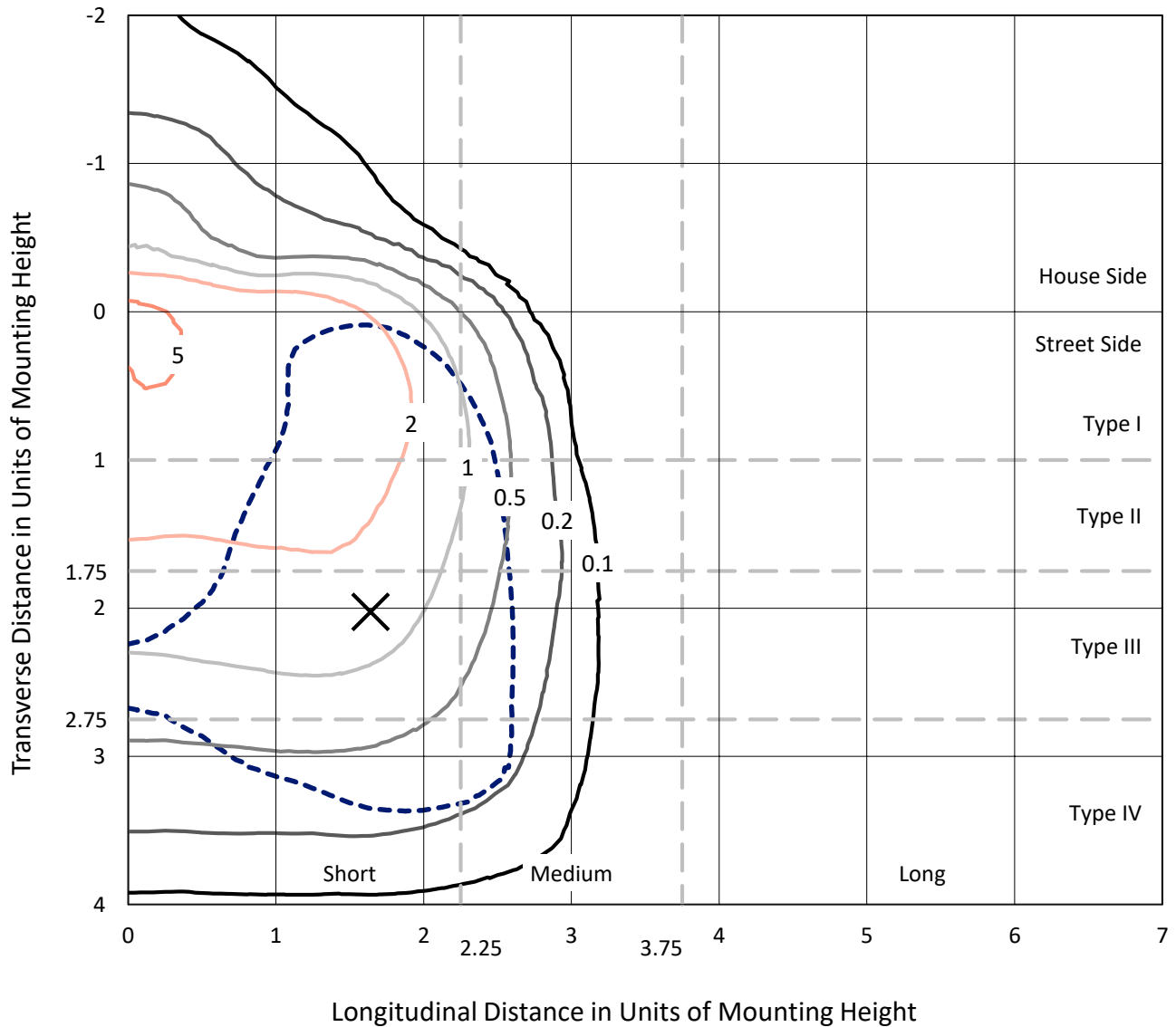


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

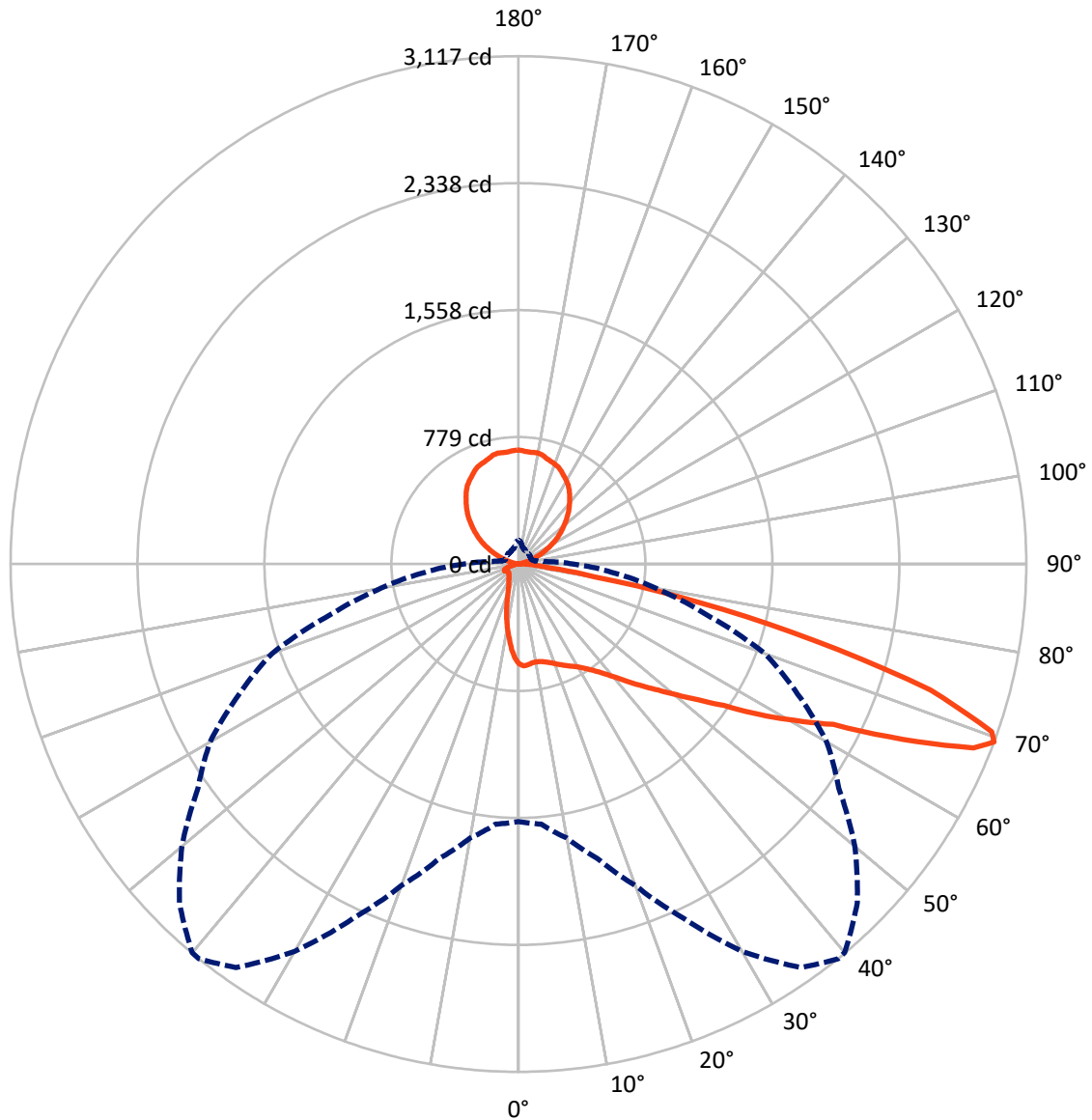


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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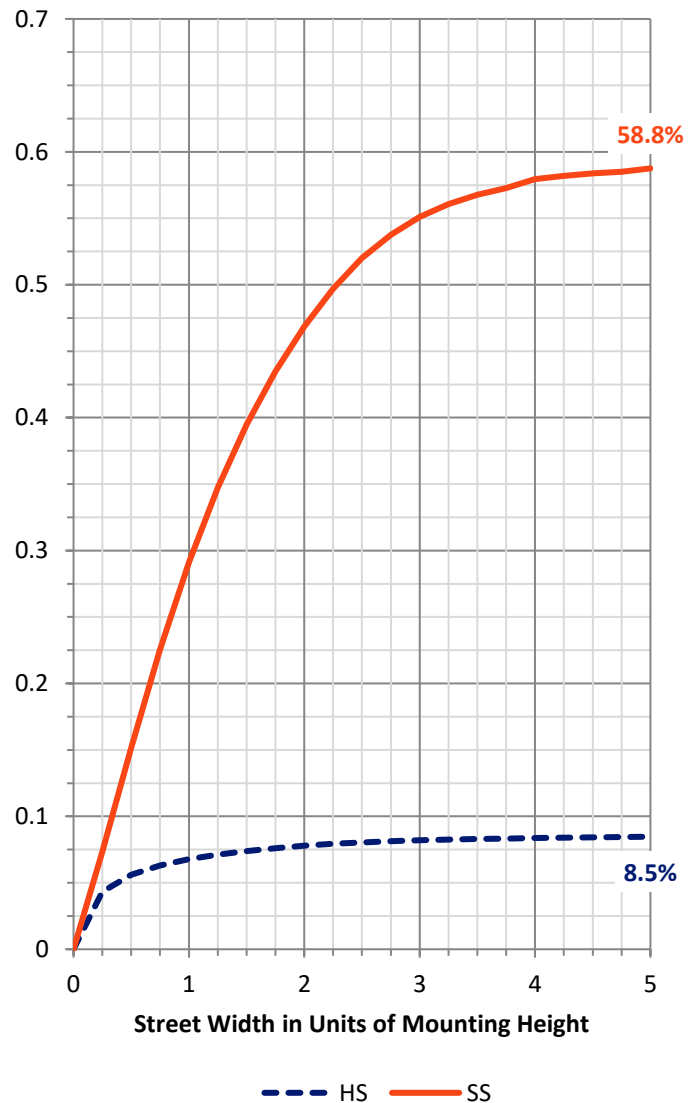
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.7	867.7	1331.4
	% Fixture	8.6	16.1	24.7
Street Side	Lumens	3197.0	868.5	4065.5
	% Fixture	59.2	16.1	75.3
Total	Lumens	3660.7	1736.2	5396.8
	% Fixture	67.8	32.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.0
10°-20°	133.5	2.5
20°-30°	207.7	3.8
30°-40°	313.9	5.8
40°-50°	502.4	9.3
50°-60°	789.6	14.6
60°-70°	1063.1	19.7
70°-80°	527.3	9.8
80°-90°	70.3	1.3
90°-100°	10.3	0.2
100°-110°	57.4	1.1
110°-120°	166.1	3.1
120°-130°	273.2	5.1
130°-140°	336.8	6.2
140°-150°	344.6	6.4
150°-160°	290.3	5.4
160°-170°	191.2	3.5
170°-180°	66.3	1.2
0°-90°	3660.7	67.8
0°-180°	5396.8	100.0



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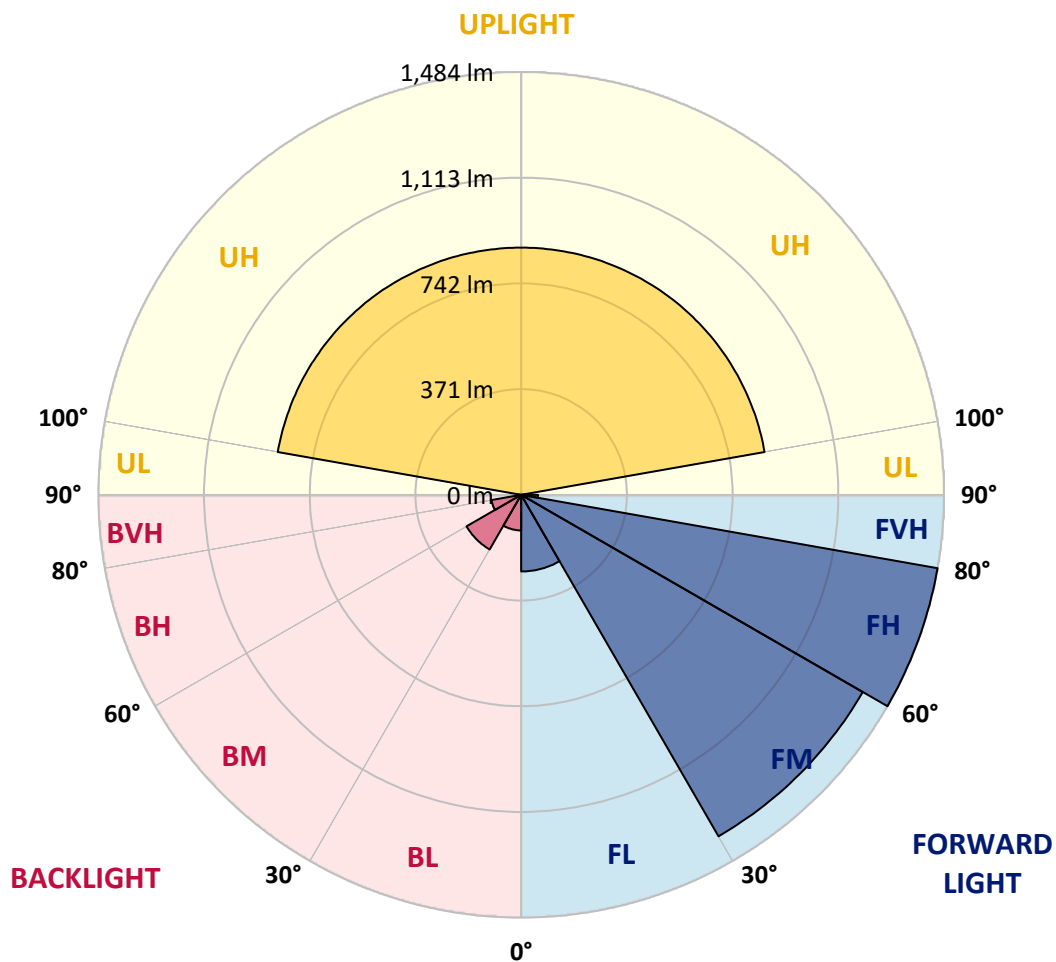
CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.1	5.0			
FM	(30°-60°)	1384.6	25.7			
FH	(60°-80°)	1484.4	27.5			G1/1800
FVH	(80°-90°)	58.9	1.1			G1/100
BL	(0°-30°)	125.0	2.3	B1/500		
BM	(30°-60°)	221.3	4.1	B1/1000		
BH	(60°-80°)	106.0	2.0	B0/110		G0/110
BVH	(80°-90°)	11.4	0.2			G1/100
UL	(90°-100°)	10.3	0.2		U2/50	
UH	(100°-180°)	867.7	16.1		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°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
2.5°	628.0	628.6	628.6	629.2	626.8	626.8	627.4	625.0	626.2	625.6	622.6
5°	629.2	629.8	629.2	629.8	626.8	625.6	623.2	620.3	621.4	620.9	616.7
7.5°	626.2	626.8	625.6	626.2	622.6	620.3	616.7	614.3	612.5	611.9	606.6
10°	619.7	621.4	619.1	620.9	617.9	615.5	613.7	611.3	610.2	609.6	603.6
12.5°	610.2	611.3	611.9	614.3	614.3	614.9	614.9	613.1	613.7	613.1	608.4
15°	601.2	605.4	609.6	611.9	616.7	619.7	622.0	621.4	623.2	622.6	619.7
17.5°	601.2	604.8	611.9	619.7	628.6	632.7	636.3	636.3	636.9	635.7	631.0
20°	603.6	610.2	622.0	635.1	645.8	654.1	656.5	655.9	653.5	653.5	645.2
22.5°	623.2	627.4	640.5	654.7	669.6	677.9	678.5	676.7	671.9	670.8	660.7
25°	651.2	655.9	667.8	686.2	697.5	704.0	702.2	696.3	691.6	687.4	676.7
27.5°	694.5	698.1	710.0	722.4	729.0	731.4	724.2	715.9	710.6	708.8	694.5
30°	739.1	743.8	753.3	761.1	766.4	759.3	748.0	738.5	733.7	732.5	719.5
32.5°	793.7	794.3	800.9	802.7	803.2	791.4	775.9	767.0	765.2	762.8	752.7
35°	843.6	846.6	845.4	844.8	839.5	824.6	811.6	806.2	804.4	803.8	795.5
37.5°	888.2	893.0	890.0	884.6	878.1	866.2	852.6	846.6	852.6	849.0	850.8
40°	931.6	931.6	928.0	925.0	917.3	906.0	901.3	901.9	911.4	913.8	916.1
42.5°	969.0	968.4	964.8	962.5	961.3	958.9	956.5	967.8	986.2	989.8	995.1
45°	1010.0	1009.4	995.7	1000.5	1008.8	1010.6	1018.9	1045.1	1067.6	1069.4	1080.7
47.5°	1049.8	1045.1	1032.0	1036.7	1060.5	1073.0	1086.6	1123.5	1155.0	1161.5	1193.0
50°	1091.4	1086.6	1072.4	1081.3	1114.6	1137.7	1169.8	1220.9	1264.3	1273.2	1314.2
52.5°	1134.8	1134.2	1122.9	1136.5	1177.5	1224.5	1275.0	1332.6	1385.5	1396.8	1457.4
55°	1187.0	1184.1	1179.3	1196.0	1254.2	1317.2	1396.2	1474.6	1532.2	1552.4	1613.6
57.5°	1245.9	1244.7	1245.3	1279.7	1349.8	1445.5	1542.3	1648.1	1743.1	1757.4	1814.4
60°	1297.0	1299.3	1313.0	1367.1	1455.0	1584.5	1720.6	1863.7	1948.1	1963.0	2018.8
62.5°	1359.3	1373.0	1403.3	1471.6	1575.0	1731.9	1908.3	2059.8	2168.5	2198.8	2304.6
65°	1509.1	1519.8	1576.2	1658.8	1790.7	1991.5	2194.1	2414.5	2593.9	2621.2	2712.1
67.5°	1618.4	1645.7	1734.2	1869.1	2059.8	2316.5	2594.5	2861.3	3012.8	3025.2	2961.7
69°	1580.4	1602.9	1707.5	1870.3	2100.2	2399.0	2744.8	3023.5	3116.7	3114.4	2941.5
70°	1522.1	1542.9	1658.2	1816.2	2066.3	2389.5	2747.2	3024.7	3081.1	3059.7	2861.9
72.5°	1275.0	1293.4	1401.5	1566.7	1809.1	2129.9	2466.8	2656.3	2644.4	2626.6	2299.8
75°	796.1	794.9	889.4	985.0	1173.4	1497.8	1748.5	1900.6	1876.2	1862.6	1476.4
77.5°	297.7	318.4	352.9	455.7	542.4	717.7	920.3	1089.6	1136.5	1076.5	794.9
80°	155.1	166.4	188.9	225.2	259.0	296.5	356.5	458.7	474.7	442.6	320.8
82.5°	122.4	136.1	158.6	189.5	213.3	199.0	187.7	194.3	193.1	184.2	163.4
85°	92.7	108.7	145.6	177.0	210.9	178.2	142.0	124.2	110.5	111.1	118.2
87.5°	46.3	60.0	114.7	154.5	183.6	118.2	92.7	71.9	60.0	57.6	77.2
90°	19.3	19.3	29.2	37.3	49.1	28.8	28.2	23.4	18.9	18.8	24.8
92.5°	4.0	4.0	4.5	5.0	5.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	5.0	5.0	5.5	6.0	6.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	7.0	7.0	7.5	8.0	8.0	8.0	8.5	9.0	9.0	9.0	9.0
100°	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	15.6	16.5	21.0
102.5°	11.0	11.0	12.0	13.0	15.5	18.0	22.5	27.0	32.2	33.5	40.0
105°	21.0	22.0	24.5	27.0	31.5	36.0	42.0	48.0	54.0	55.5	63.0
107.5°	41.0	42.0	45.5	49.0	53.5	58.0	65.5	73.0	79.0	80.5	88.0



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CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	66.0	68.0	71.0	74.0	80.5	87.0	94.5	102.0	106.8	108.0	114.0
112.5°	99.0	99.0	102.5	106.0	113.5	121.0	127.5	134.0	137.6	138.5	143.0
115°	140.0	139.0	143.0	147.0	153.0	159.0	163.5	168.0	170.4	171.0	174.0
117.5°	184.0	184.0	186.5	189.0	193.0	197.0	199.5	202.0	203.2	203.5	205.0
120°	225.0	223.0	224.5	226.0	229.5	233.0	235.0	237.0	239.4	240.0	243.0
122.5°	263.0	260.0	260.5	261.0	264.0	267.0	269.0	271.0	273.4	274.0	277.0
125°	298.0	294.0	295.0	296.0	297.5	299.0	302.0	305.0	307.0	307.5	310.0
127.5°	330.0	329.0	329.0	329.0	331.0	333.0	336.0	339.0	339.4	339.5	340.0
130°	363.0	361.0	361.5	362.0	364.0	366.0	368.0	370.0	370.8	371.0	372.0
132.5°	396.0	394.0	393.5	393.0	397.0	401.0	402.5	404.0	404.4	404.5	405.0
135°	429.0	426.0	426.0	426.0	429.0	432.0	433.5	435.0	435.8	436.0	437.0
137.5°	460.0	457.0	458.0	459.0	459.5	460.0	462.0	464.0	465.6	466.0	468.0
140°	488.0	485.0	486.0	487.0	488.0	489.0	490.0	491.0	493.4	494.0	497.0
142.5°	518.0	515.0	516.0	517.0	517.5	518.0	519.5	521.0	522.6	523.0	525.0
145°	550.0	546.0	545.0	544.0	545.5	547.0	548.5	550.0	550.4	550.5	551.0
147.5°	575.0	572.0	571.5	571.0	572.5	574.0	574.0	574.0	574.4	574.5	575.0
150°	595.0	592.0	592.5	593.0	593.0	593.0	593.0	593.0	593.0	593.0	593.0
152.5°	611.0	608.0	608.0	608.0	608.5	609.0	609.5	610.0	610.0	610.0	610.0
155°	629.0	625.0	625.0	625.0	626.0	627.0	628.5	630.0	629.2	629.0	628.0
157.5°	646.0	643.0	643.0	643.0	643.5	644.0	645.0	646.0	645.6	645.5	645.0
160°	663.0	660.0	659.5	659.0	657.5	656.0	655.5	655.0	655.0	655.0	655.0
162.5°	673.0	669.0	669.0	669.0	667.0	665.0	663.0	661.0	661.8	662.0	663.0
165°	681.0	678.0	677.0	676.0	676.0	676.0	674.5	673.0	673.0	673.0	673.0
167.5°	690.0	687.0	685.5	684.0	685.0	686.0	687.0	688.0	686.8	686.5	685.0
170°	698.0	695.0	693.5	692.0	692.0	692.0	692.5	693.0	692.2	692.0	691.0
172.5°	699.0	697.0	696.0	695.0	694.0	693.0	691.5	690.0	690.0	690.0	690.0
175°	700.0	698.0	697.5	697.0	696.0	695.0	693.0	691.0	690.6	690.5	690.0
177.5°	707.0	705.0	702.5	700.0	699.5	699.0	698.0	697.0	696.2	696.0	695.0
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
2.5°	620.3	620.3	619.1	618.5	616.7	614.3	612.5	609.6	607.8	604.8	601.2
5°	612.5	610.2	609.0	606.6	603.0	600.1	596.5	592.3	587.6	581.6	575.1
7.5°	602.4	598.9	594.7	593.5	589.4	585.8	581.6	575.7	569.2	558.5	550.2
10°	598.3	594.7	591.1	588.8	583.4	579.3	574.5	566.8	558.5	544.2	528.8
12.5°	602.4	598.9	595.3	591.1	586.4	581.6	575.1	565.6	554.3	535.9	516.9
15°	612.5	609.0	603.0	598.9	592.3	588.2	579.3	568.6	551.9	529.4	504.4
17.5°	623.8	618.5	613.1	606.6	600.7	595.3	585.8	572.1	551.3	524.6	492.5
20°	634.5	628.6	620.3	615.5	609.6	601.8	591.7	575.1	550.2	515.1	480.0
22.5°	647.0	639.3	630.4	625.0	620.3	613.7	601.8	580.5	550.2	509.8	465.8
25°	663.0	652.9	644.0	638.7	635.7	631.0	616.7	592.9	554.3	506.8	453.9
27.5°	682.0	669.0	661.3	657.7	657.1	653.5	639.3	609.6	563.8	506.8	442.6
30°	704.6	693.3	683.2	683.2	690.4	688.0	671.9	635.1	578.7	508.6	434.3
32.5°	736.1	724.8	718.9	724.8	732.5	734.9	716.5	671.4	603.0	516.9	426.0
35°	782.5	775.3	771.2	780.1	795.5	801.5	778.9	725.4	638.7	532.9	421.2
37.5°	843.6	838.3	833.0	848.4	877.5	889.4	856.7	787.8	689.8	559.7	418.9
40°	913.8	914.3	920.3	951.2	979.1	1004.1	967.2	882.3	759.9	597.7	421.2
42.5°	996.9	1003.5	1023.7	1066.4	1120.5	1140.1	1104.5	996.3	847.2	643.4	427.2
45°	1100.3	1117.5	1152.0	1215.6	1280.9	1311.2	1260.7	1140.1	957.1	716.5	443.8
47.5°	1210.2	1248.2	1306.5	1383.7	1459.7	1479.4	1417.0	1270.2	1064.7	781.3	469.4
50°	1351.0	1397.4	1455.6	1548.3	1629.1	1641.0	1558.4	1390.8	1158.5	837.7	493.7
52.5°	1482.3	1545.3	1619.6	1727.1	1809.1	1794.2	1687.3	1498.4	1232.8	876.3	507.4
55°	1661.7	1727.1	1810.9	1904.7	1986.1	1950.5	1804.3	1589.9	1292.2	904.8	511.5
57.5°	1866.7	1916.6	1998.6	2094.9	2148.3	2087.1	1919.6	1679.0	1348.6	905.4	478.9
60°	2068.1	2126.3	2216.7	2311.1	2340.8	2235.1	1999.8	1692.6	1292.8	808.0	383.2
62.5°	2366.4	2425.2	2470.9	2486.4	2432.9	2220.2	1906.5	1548.3	1114.6	637.5	271.5
65°	2699.7	2633.1	2544.6	2461.4	2315.9	1992.7	1643.9	1272.0	865.0	426.0	187.1
67.5°	2787.0	2584.4	2391.9	2206.6	1935.0	1586.9	1239.9	894.7	554.9	242.4	127.1
69°	2696.1	2400.2	2185.8	1891.7	1611.2	1187.6	854.3	573.3	331.5	168.7	106.3
70°	2529.8	2222.0	1931.5	1616.6	1248.2	907.2	568.0	375.5	216.3	123.0	95.7
72.5°	1908.9	1526.3	1176.4	764.0	465.8	258.4	181.8	130.1	102.8	90.3	82.0
75°	1103.9	734.9	481.2	256.7	152.1	112.9	98.6	87.9	81.4	78.4	71.3
77.5°	465.8	291.1	197.2	144.4	102.2	87.3	76.0	70.1	69.5	67.7	61.2
80°	212.1	181.8	155.1	108.7	77.8	66.5	58.2	57.0	58.2	56.4	49.9
82.5°	157.4	155.1	129.5	83.8	59.4	44.6	36.2	38.0	42.8	46.3	40.4
85°	131.3	131.3	108.7	62.4	39.2	28.5	27.9	31.5	35.6	38.6	32.7
87.5°	120.6	115.9	62.4	32.1	22.6	18.4	17.2	15.4	15.4	26.7	22.6
90°	18.9	12.3	11.0	11.4	12.0	11.4	11.6	10.0	10.0	10.0	11.0
92.5°	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	10.5	12.0	11.0	10.0	9.5	9.0	8.5	8.0	8.0	8.0	8.5
100°	25.0	29.0	27.5	26.0	24.5	23.0	21.0	19.0	19.0	19.0	21.0
102.5°	45.0	50.0	48.5	47.0	44.5	42.0	40.5	39.0	38.0	39.0	40.5
105°	67.5	72.0	71.0	70.0	67.5	65.0	63.0	61.0	61.0	61.0	63.0
107.5°	91.5	95.0	94.5	94.0	92.0	90.0	88.5	87.0	86.0	87.0	88.5



REPORT NUMBER: P227083

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7050-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	117.0	120.0	120.5	121.0	120.0	119.0	117.5	116.0	117.0	116.0	117.5
112.5°	145.5	148.0	149.0	150.0	149.5	149.0	148.0	147.0	147.0	147.0	148.0
115°	176.5	179.0	180.5	182.0	180.5	179.0	178.0	177.0	178.0	177.0	178.0
117.5°	208.0	211.0	213.0	215.0	212.5	210.0	209.0	208.0	209.0	208.0	209.0
120°	244.5	246.0	248.0	250.0	247.5	245.0	244.0	243.0	243.0	243.0	244.0
122.5°	278.0	279.0	281.0	283.0	280.5	278.0	277.0	276.0	277.0	276.0	277.0
125°	311.5	313.0	314.0	315.0	312.5	310.0	310.0	310.0	310.0	310.0	310.0
127.5°	342.5	345.0	345.5	346.0	346.0	346.0	345.5	345.0	347.0	345.0	345.5
130°	374.5	377.0	379.0	381.0	381.0	381.0	380.0	379.0	380.0	379.0	380.0
132.5°	408.0	411.0	413.5	416.0	415.0	414.0	414.0	414.0	415.0	414.0	414.0
135°	440.0	443.0	445.5	448.0	447.5	447.0	448.5	450.0	451.0	450.0	448.5
137.5°	470.5	473.0	474.0	475.0	475.5	476.0	478.5	481.0	482.0	481.0	478.5
140°	498.5	500.0	501.0	502.0	503.0	504.0	506.5	509.0	511.0	509.0	506.5
142.5°	526.0	527.0	530.0	533.0	533.0	533.0	533.5	534.0	536.0	534.0	533.5
145°	553.5	556.0	559.0	562.0	561.5	561.0	559.5	558.0	560.0	558.0	559.5
147.5°	577.5	580.0	582.5	585.0	585.5	586.0	584.5	583.0	585.0	583.0	584.5
150°	595.0	597.0	598.5	600.0	601.5	603.0	604.5	606.0	610.0	606.0	604.5
152.5°	610.5	611.0	612.5	614.0	616.0	618.0	620.5	623.0	628.0	623.0	620.5
155°	627.0	626.0	628.5	631.0	633.5	636.0	637.0	638.0	641.0	638.0	637.0
157.5°	644.5	644.0	646.0	648.0	649.0	650.0	650.0	650.0	655.0	650.0	650.0
160°	656.5	658.0	661.0	664.0	662.5	661.0	660.5	660.0	666.0	660.0	660.5
162.5°	665.0	667.0	669.0	671.0	670.5	670.0	669.0	668.0	674.0	668.0	669.0
165°	672.5	672.0	674.5	677.0	678.5	680.0	679.0	678.0	682.0	678.0	679.0
167.5°	681.5	678.0	681.0	684.0	686.0	688.0	688.0	688.0	694.0	688.0	688.0
170°	688.5	686.0	687.5	689.0	691.5	694.0	695.0	696.0	701.0	696.0	695.0
172.5°	689.5	689.0	690.5	692.0	693.0	694.0	695.0	696.0	701.0	696.0	695.0
175°	690.0	690.0	692.5	695.0	695.5	696.0	695.0	694.0	699.0	694.0	695.0
177.5°	694.5	694.0	696.5	699.0	700.0	701.0	699.5	698.0	702.0	698.0	699.5
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0



REPORT NUMBER: P227083

CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7050-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
2.5°	598.3	595.9	590.0	588.8	587.0	584.6	584.0	581.0	575.1	573.9	574.5
5°	570.9	561.4	554.9	549.6	545.4	534.7	530.5	525.8	517.5	515.1	511.5
7.5°	538.9	527.6	514.5	505.0	493.7	482.4	473.5	462.2	453.3	448.0	438.5
10°	513.9	498.5	481.2	462.2	447.4	430.1	418.9	405.8	391.5	378.5	368.9
12.5°	494.9	473.5	448.6	426.0	404.6	386.2	366.0	347.6	329.7	311.9	296.5
15°	479.5	452.7	421.2	392.7	366.6	339.2	316.7	291.1	268.5	253.1	233.5
17.5°	462.8	428.4	390.9	357.7	323.8	295.3	266.8	240.0	218.6	198.4	182.4
20°	442.6	401.0	360.6	322.0	283.4	250.7	221.6	196.1	175.3	159.2	147.3
22.5°	420.0	371.3	324.4	282.2	243.6	211.5	184.2	165.2	149.7	140.8	137.2
25°	398.1	342.2	289.3	243.0	204.4	177.0	158.6	142.6	134.9	131.3	131.3
27.5°	377.9	312.5	253.7	208.5	171.1	149.7	135.5	128.9	125.4	125.4	127.1
30°	358.8	282.8	219.8	174.1	144.4	128.3	120.6	118.2	118.8	121.2	123.6
32.5°	336.9	254.3	190.7	149.7	125.4	114.7	108.7	109.3	112.3	116.4	120.6
35°	313.7	224.0	165.2	131.3	112.3	104.0	100.4	101.0	105.2	110.5	114.7
37.5°	292.9	199.6	145.6	117.0	102.8	97.4	94.5	95.1	98.0	104.6	109.9
40°	272.1	178.8	129.5	108.7	97.4	92.1	90.3	89.7	92.1	98.0	104.6
42.5°	254.3	161.0	120.0	102.8	93.9	89.1	86.7	86.7	87.9	92.7	99.2
45°	243.6	150.3	113.5	98.6	90.9	86.7	84.4	83.2	85.0	87.9	93.9
47.5°	243.6	145.0	109.3	95.7	88.5	85.0	82.0	81.4	82.0	85.0	90.9
50°	251.9	146.2	108.7	94.5	87.3	82.6	79.6	79.6	80.8	85.0	89.7
52.5°	259.0	148.5	110.5	95.7	87.3	81.4	77.8	77.2	79.0	83.2	87.3
55°	257.8	148.5	112.3	97.4	89.1	82.0	77.2	76.6	77.8	82.0	86.1
57.5°	230.5	139.6	110.5	98.6	91.5	85.0	80.2	78.4	79.6	83.2	86.7
60°	186.6	124.2	105.8	98.6	95.1	90.3	85.6	84.4	85.0	88.5	92.7
62.5°	146.2	110.5	99.8	98.0	96.8	94.5	92.7	91.5	91.5	94.5	98.0
65°	118.8	99.8	95.1	95.7	96.8	96.2	95.7	95.1	95.1	96.8	100.4
67.5°	99.2	89.7	88.5	90.3	91.5	92.1	92.7	92.1	92.7	94.5	98.6
69°	90.3	84.4	83.2	84.4	86.7	87.3	88.5	87.9	88.5	90.3	94.5
70°	85.0	80.2	79.0	80.8	82.6	83.2	84.4	83.8	84.4	86.1	90.3
72.5°	73.7	68.3	66.5	67.7	69.5	69.5	71.3	71.9	70.7	71.3	74.3
75°	63.0	57.0	54.1	54.7	54.7	54.7	55.8	55.8	54.7	54.1	54.7
77.5°	52.9	46.3	42.8	42.8	42.8	42.2	40.4	41.0	41.6	41.0	41.6
80°	41.6	36.2	32.7	32.7	32.7	31.5	30.9	30.9	32.1	33.3	32.7
82.5°	32.1	26.7	25.0	24.4	24.4	23.2	23.2	24.4	23.8	24.4	25.5
85°	23.2	19.0	17.2	17.8	17.2	16.0	16.6	18.4	18.4	17.8	19.0
87.5°	14.3	11.9	11.3	11.9	10.7	8.9	8.3	8.9	10.1	9.5	10.7
90°	10.8	10.2	10.2	9.2	8.8	8.2	8.2	8.7	9.8	9.8	9.2
92.5°	6.0	6.5	7.0	7.0	7.0	6.5	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.5	8.0	7.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.0	9.5	10.0	11.0	12.0	10.5	9.0	9.0	9.0	8.5	8.0
100°	23.0	24.5	26.0	27.5	29.0	25.0	21.0	16.5	12.0	11.0	10.0
102.5°	42.0	44.5	47.0	48.5	50.0	45.0	40.0	33.5	27.0	22.5	18.0
105°	65.0	67.5	70.0	71.0	72.0	67.5	63.0	55.5	48.0	42.0	36.0
107.5°	90.0	92.0	94.0	94.5	95.0	91.5	88.0	80.5	73.0	65.5	58.0



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 CATALOG NUMBER: IST-AF-600-LED-E1-SL4-7050-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	119.0	120.0	121.0	120.5	120.0	117.0	114.0	108.0	102.0	94.5	87.0	0°
112.5°	149.0	149.5	150.0	149.0	148.0	145.5	143.0	138.5	134.0	127.5	121.0	2.5°
115°	179.0	180.5	182.0	180.5	179.0	176.5	174.0	171.0	168.0	163.5	159.0	5°
117.5°	210.0	212.5	215.0	213.0	211.0	208.0	205.0	203.5	202.0	199.5	197.0	7.5°
120°	245.0	247.5	250.0	248.0	246.0	244.5	243.0	240.0	237.0	235.0	233.0	10°
122.5°	278.0	280.5	283.0	281.0	279.0	278.0	277.0	274.0	271.0	269.0	267.0	12.5°
125°	310.0	312.5	315.0	314.0	313.0	311.5	310.0	307.5	305.0	302.0	299.0	15°
127.5°	346.0	346.0	346.0	345.5	345.0	342.5	340.0	339.5	339.0	336.0	333.0	17.5°
130°	381.0	381.0	381.0	379.0	377.0	374.5	372.0	371.0	370.0	368.0	366.0	20°
132.5°	414.0	415.0	416.0	413.5	411.0	408.0	405.0	404.5	404.0	402.5	401.0	22.5°
135°	447.0	447.5	448.0	445.5	443.0	440.0	437.0	436.0	435.0	433.5	432.0	25°
137.5°	476.0	475.5	475.0	474.0	473.0	470.5	468.0	466.0	464.0	462.0	460.0	27.5°
140°	504.0	503.0	502.0	501.0	500.0	498.5	497.0	494.0	491.0	490.0	489.0	30°
142.5°	533.0	533.0	533.0	530.0	527.0	526.0	525.0	523.0	521.0	519.5	518.0	32.5°
145°	561.0	561.5	562.0	559.0	556.0	553.5	551.0	550.5	550.0	548.5	547.0	35°
147.5°	586.0	585.5	585.0	582.5	580.0	577.5	575.0	574.5	574.0	574.0	574.0	37.5°
150°	603.0	601.5	600.0	598.5	597.0	595.0	593.0	593.0	593.0	593.0	593.0	40°
152.5°	618.0	616.0	614.0	612.5	611.0	610.5	610.0	610.0	610.0	609.5	609.0	42.5°
155°	636.0	633.5	631.0	628.5	626.0	627.0	628.0	629.0	630.0	628.5	627.0	45°
157.5°	650.0	649.0	648.0	646.0	644.0	644.5	645.0	645.5	646.0	645.0	644.0	47.5°
160°	661.0	662.5	664.0	661.0	658.0	656.5	655.0	655.0	655.0	655.5	656.0	50°
162.5°	670.0	670.5	671.0	669.0	667.0	665.0	663.0	662.0	661.0	663.0	665.0	52.5°
165°	680.0	678.5	677.0	674.5	672.0	672.5	673.0	673.0	673.0	674.5	676.0	55°
167.5°	688.0	686.0	684.0	681.0	678.0	681.5	685.0	686.5	688.0	687.0	686.0	57.5°
170°	694.0	691.5	689.0	687.5	686.0	688.5	691.0	692.0	693.0	692.5	692.0	60°
172.5°	694.0	693.0	692.0	690.5	689.0	689.5	690.0	690.0	690.0	691.5	693.0	62.5°
175°	696.0	695.5	695.0	692.5	690.0	690.0	690.0	690.5	691.0	693.0	695.0	65°
177.5°	701.0	700.0	699.0	696.5	694.0	694.5	695.0	696.0	697.0	698.0	699.0	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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: P227083
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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
613.1	613.1	613.1	613.1	613.1
570.4	572.1	564.4	568.0	565.6
508.0	505.0	504.4	502.6	499.1
434.9	432.5	425.4	427.8	422.4
359.4	358.8	345.8	346.4	339.8
289.9	279.2	273.9	266.2	270.3
224.6	215.7	204.4	201.4	205.6
169.3	160.4	155.1	150.3	148.5
140.2	134.9	131.9	130.1	128.9
135.5	134.3	133.7	132.5	131.9
132.5	133.7	133.7	133.7	132.5
129.5	131.9	132.5	131.9	130.7
126.5	128.3	128.3	127.7	126.0
122.4	124.2	124.2	123.6	122.4
117.6	118.8	119.4	119.4	120.0
114.1	115.3	116.4	117.6	119.4
109.9	111.7	112.3	114.7	117.0
104.6	106.9	108.1	109.9	112.3
99.2	102.2	102.8	105.2	107.5
96.8	99.2	99.2	101.0	102.8
93.9	95.1	94.5	95.7	96.2
90.9	92.1	91.5	92.7	93.3
88.5	89.7	90.9	92.1	92.7
89.7	91.5	92.1	93.9	94.5
95.1	97.4	99.8	102.2	104.0
100.4	103.4	108.7	119.4	123.6
103.4	107.5	120.0	138.4	143.8
101.6	106.9	121.8	141.4	147.9
98.0	102.2	118.2	138.4	144.4
93.3	97.4	113.5	135.5	140.8
75.5	77.8	95.7	116.4	120.0
55.3	57.0	70.7	79.0	78.4
42.8	45.2	49.9	50.5	49.9
33.9	35.1	37.4	37.4	38.0
26.1	26.7	27.9	26.7	26.1
19.6	19.0	18.4	17.8	17.2
11.3	11.3	9.5	8.3	7.7
8.7	8.8	7.8	6.2	5.0
5.5	5.0	4.5	4.0	4.0
6.5	6.0	5.5	5.0	5.0
8.0	8.0	7.5	7.0	7.0
9.5	9.0	8.5	8.0	8.0
15.5	13.0	12.0	11.0	11.0
31.5	27.0	24.5	22.0	21.0
53.5	49.0	45.5	42.0	41.0

CANDELA DISTRIBUTION:

	160°
110°	80.5
112.5°	113.5
115°	153.0
117.5°	193.0
120°	229.5
122.5°	264.0
125°	297.5
127.5°	331.0
130°	364.0
132.5°	397.0
135°	429.0
137.5°	459.5
140°	488.0
142.5°	517.5
145°	545.5
147.5°	572.5
150°	593.0
152.5°	608.5
155°	626.0
157.5°	643.5
160°	657.5
162.5°	667.0
165°	676.0
167.5°	685.0
170°	692.0
172.5°	694.0
175°	696.0
177.5°	699.5
180°	700.0

'227083

IST-AF-600-LED-E1-SL4-7050-ULG

TION (continued):

165°	170°	175°	180°
74.0	71.0	68.0	66.0
106.0	102.5	99.0	99.0
147.0	143.0	139.0	140.0
189.0	186.5	184.0	184.0
226.0	224.5	223.0	225.0
261.0	260.5	260.0	263.0
296.0	295.0	294.0	298.0
329.0	329.0	329.0	330.0
362.0	361.5	361.0	363.0
393.0	393.5	394.0	396.0
426.0	426.0	426.0	429.0
459.0	458.0	457.0	460.0
487.0	486.0	485.0	488.0
517.0	516.0	515.0	518.0
544.0	545.0	546.0	550.0
571.0	571.5	572.0	575.0
593.0	592.5	592.0	595.0
608.0	608.0	608.0	611.0
625.0	625.0	625.0	629.0
643.0	643.0	643.0	646.0
659.0	659.5	660.0	663.0
669.0	669.0	669.0	673.0
676.0	677.0	678.0	681.0
684.0	685.5	687.0	690.0
692.0	693.5	695.0	698.0
695.0	696.0	697.0	699.0
697.0	697.5	698.0	700.0
700.0	702.5	705.0	707.0
700.0	700.0	700.0	700.0

(END OF REPORT)