

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: P227079

Luminaire Tested: **IST-AF-800-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227079
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-SL4-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5792.4 lumens
Efficiency: N/A
Efficacy: 96.2 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

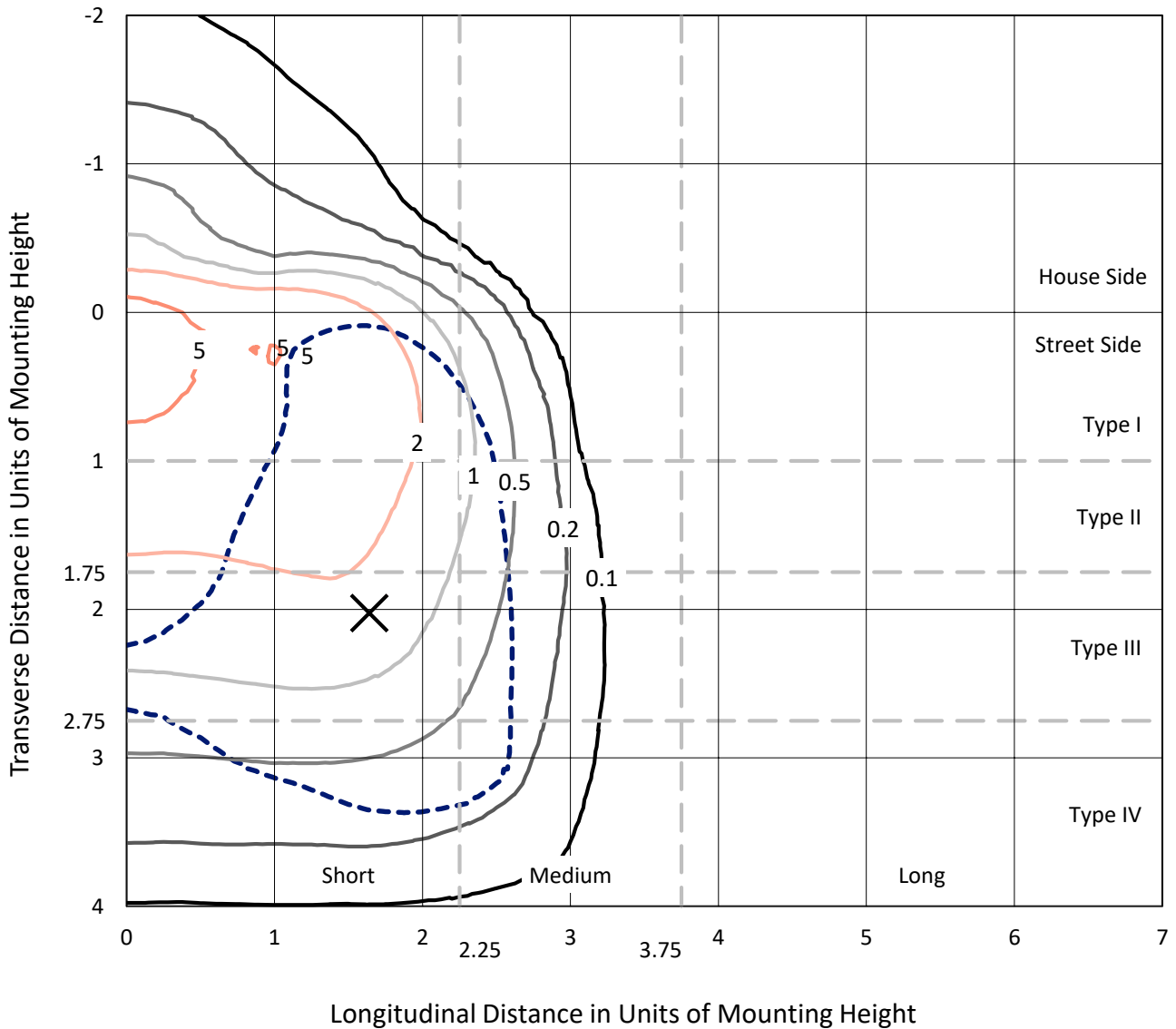


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

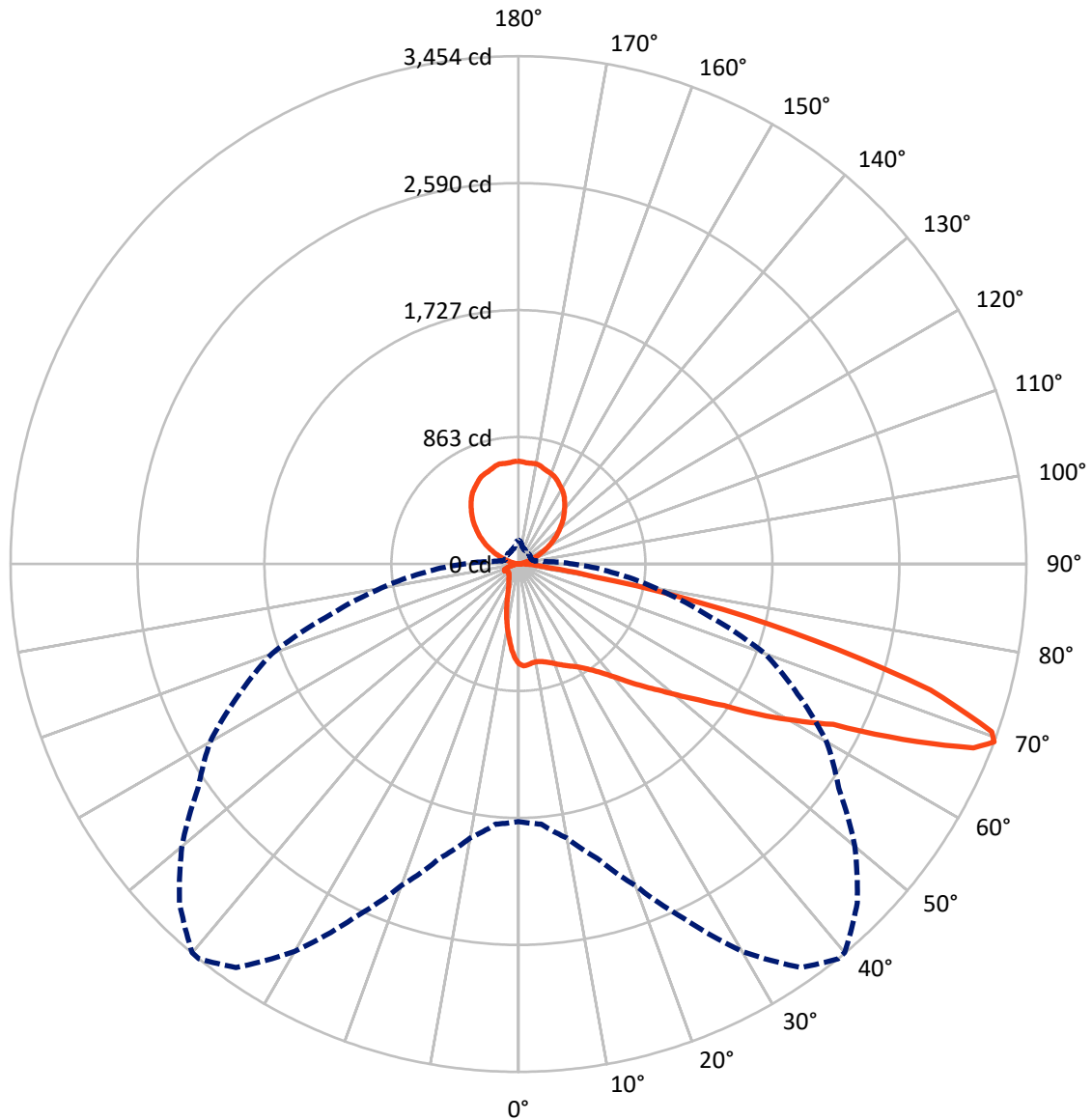


Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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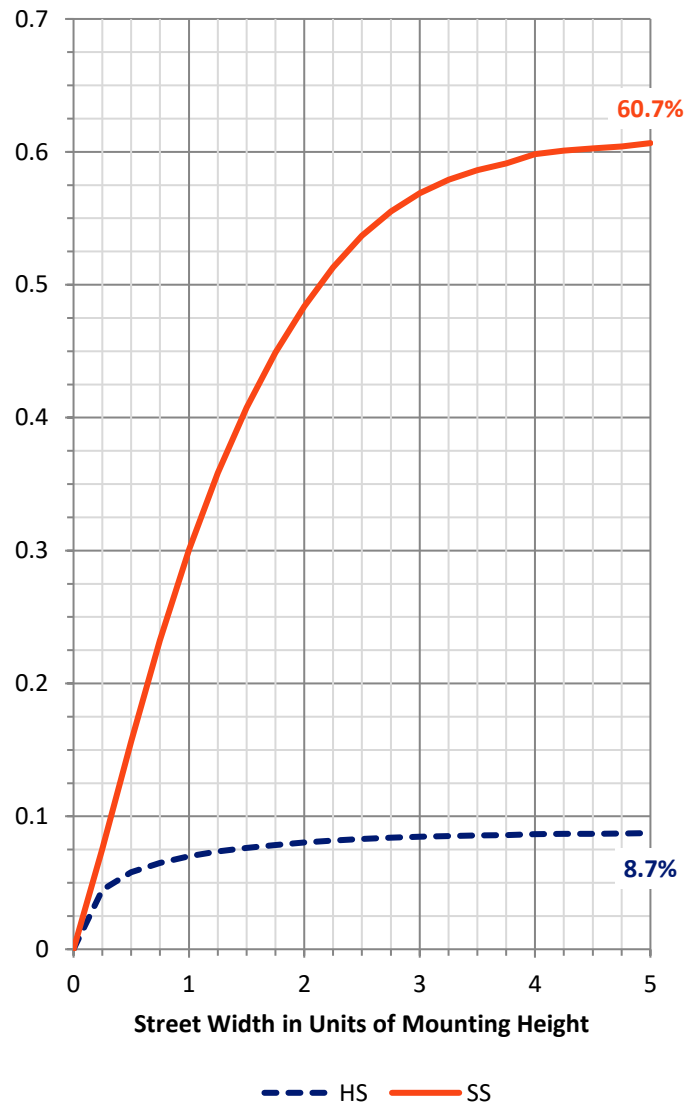
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	513.7	867.7	1381.4
	% Fixture	8.9	15.0	23.8
Street Side	Lumens	3542.4	868.6	4411.0
	% Fixture	61.2	15.0	76.2
Total	Lumens	4056.2	1736.3	5792.4
	% Fixture	70.0	30.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.0
10°-20°	147.9	2.6
20°-30°	230.2	4.0
30°-40°	347.9	6.0
40°-50°	556.6	9.6
50°-60°	874.9	15.1
60°-70°	1178.0	20.3
70°-80°	584.3	10.1
80°-90°	77.8	1.3
90°-100°	10.4	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.9
120°-130°	273.2	4.7
130°-140°	336.8	5.8
140°-150°	344.6	5.9
150°-160°	290.3	5.0
160°-170°	191.2	3.3
170°-180°	66.3	1.1
0°-90°	4056.2	70.0
0°-180°	5792.4	100.0

Coefficient of Utilization



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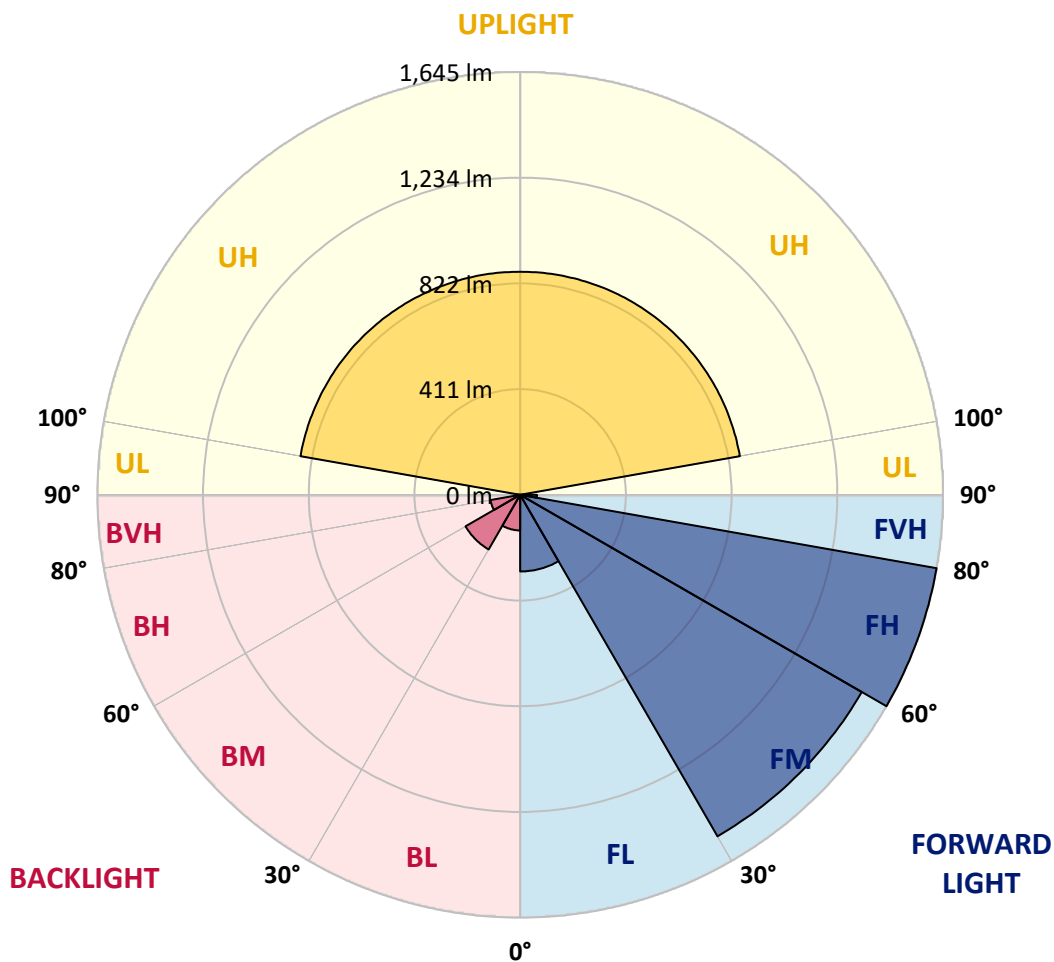
CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.2	5.1			
FM	(30°-60°)	1534.2	26.5			
FH	(60°-80°)	1644.8	28.4			G1/1800
FVH	(80°-90°)	65.2	1.1			G1/100
BL	(0°-30°)	138.5	2.4	B1/500		
BM	(30°-60°)	245.2	4.2	B1/1000		
BH	(60°-80°)	117.5	2.0	B1/500		G1/500
BVH	(80°-90°)	12.6	0.2			G1/100
UL	(90°-100°)	10.4	0.2		U2/50	
UH	(100°-180°)	867.7	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°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	695.8	696.5	696.5	697.2	694.5	694.5	695.2	692.6	693.9	693.2	689.9
5°	697.2	697.8	697.2	697.8	694.5	693.2	690.6	687.3	688.6	687.9	683.3
7.5°	693.9	694.5	693.2	693.9	689.9	687.3	683.3	680.7	678.7	678.1	672.1
10°	686.6	688.6	686.0	687.9	684.7	682.0	680.0	677.4	676.1	675.4	668.9
12.5°	676.1	677.4	678.1	680.7	680.7	681.4	681.4	679.4	680.0	679.4	674.1
15°	666.2	670.8	675.4	678.1	683.3	686.6	689.3	688.6	690.6	689.9	686.6
17.5°	666.2	670.2	678.1	686.6	696.5	701.1	705.1	705.1	705.7	704.4	699.1
20°	668.9	676.1	689.3	703.7	715.6	724.8	727.4	726.8	724.2	724.2	714.9
22.5°	690.6	695.2	709.7	725.5	741.9	751.1	751.8	749.8	744.6	743.2	732.1
25°	721.5	726.8	740.0	760.4	772.9	780.1	778.1	771.6	766.3	761.7	749.8
27.5°	769.6	773.5	786.7	800.5	807.8	810.4	802.5	793.3	787.4	785.4	769.6
30°	819.0	824.2	834.8	843.3	849.2	841.3	828.8	818.3	813.0	811.7	797.2
32.5°	879.5	880.2	887.4	889.4	890.1	876.9	859.8	849.9	847.9	845.3	834.1
35°	934.8	938.1	936.8	936.1	930.2	913.8	899.3	893.3	891.4	890.7	881.5
37.5°	984.2	989.5	986.2	980.2	973.0	959.8	944.7	938.1	944.7	940.7	942.7
40°	1032.3	1032.3	1028.3	1025.0	1016.5	1003.9	998.7	999.3	1009.9	1012.5	1015.1
42.5°	1073.7	1073.1	1069.1	1066.5	1065.2	1062.5	1059.9	1072.4	1092.8	1096.8	1102.7
45°	1119.1	1118.5	1103.3	1108.6	1117.8	1119.8	1129.0	1158.0	1183.0	1185.0	1197.5
47.5°	1163.3	1158.0	1143.5	1148.8	1175.1	1188.9	1204.1	1244.9	1279.8	1287.0	1321.9
50°	1209.3	1204.1	1188.3	1198.1	1235.0	1260.7	1296.2	1352.9	1400.9	1410.8	1456.2
52.5°	1257.4	1256.7	1244.2	1259.4	1304.8	1356.8	1412.8	1476.6	1535.2	1547.7	1614.9
55°	1315.3	1312.0	1306.8	1325.2	1389.7	1459.5	1547.1	1634.0	1697.8	1720.2	1788.0
57.5°	1380.5	1379.2	1379.8	1418.0	1495.7	1601.7	1709.0	1826.2	1931.5	1947.3	2010.5
60°	1437.1	1439.8	1454.9	1514.8	1612.2	1755.7	1906.5	2065.2	2158.6	2175.1	2237.0
62.5°	1506.2	1521.4	1555.0	1630.7	1745.2	1919.0	2114.5	2282.4	2402.9	2436.5	2553.6
65°	1672.1	1684.0	1746.5	1838.0	1984.2	2206.7	2431.2	2675.4	2874.2	2904.5	3005.2
67.5°	1793.3	1823.6	1921.6	2071.1	2282.4	2566.8	2874.9	3170.5	3338.4	3352.2	3281.7
69°	1751.1	1776.2	1892.0	2072.4	2327.2	2658.3	3041.5	3350.2	3453.6	3450.9	3259.4
70°	1686.6	1709.7	1837.4	2012.5	2289.6	2647.8	3044.1	3351.5	3414.1	3390.4	3171.1
72.5°	1412.8	1433.2	1553.0	1736.0	2004.6	2360.1	2733.4	2943.4	2930.2	2910.4	2548.4
75°	882.2	880.8	985.5	1091.5	1300.2	1659.6	1937.4	2106.0	2079.0	2063.8	1635.9
77.5°	329.8	352.9	391.0	504.9	601.0	795.3	1019.7	1207.4	1259.4	1192.9	880.8
80°	171.8	184.3	209.3	249.5	287.0	328.5	395.0	508.2	526.0	490.5	355.5
82.5°	135.6	150.8	175.8	210.0	236.3	220.5	208.0	215.3	214.0	204.1	181.0
85°	102.7	120.5	161.3	196.2	233.7	197.5	157.3	137.6	122.4	123.1	131.0
87.5°	51.3	66.5	127.1	171.2	203.4	131.0	102.7	79.7	66.5	63.9	85.6
90°	20.8	20.8	31.7	40.6	53.6	31.0	30.4	25.1	20.1	20.0	26.7
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-800-LED-E1-SL4-7030-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°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	687.3	687.3	686.0	685.3	683.3	680.7	678.7	675.4	673.5	670.2	666.2
5°	678.7	676.1	674.8	672.1	668.2	664.9	661.0	656.3	651.1	644.5	637.3
7.5°	667.5	663.6	659.0	657.7	653.1	649.1	644.5	637.9	630.7	618.8	609.6
10°	662.9	659.0	655.0	652.4	646.5	641.9	636.6	628.0	618.8	603.0	585.9
12.5°	667.5	663.6	659.6	655.0	649.8	644.5	637.3	626.7	614.2	593.8	572.7
15°	678.7	674.8	668.2	663.6	656.3	651.7	641.9	630.0	611.6	586.6	558.9
17.5°	691.2	685.3	679.4	672.1	665.6	659.6	649.1	634.0	610.9	581.3	545.7
20°	703.1	696.5	687.3	682.0	675.4	666.9	655.7	637.3	609.6	570.8	531.9
22.5°	716.9	708.4	698.5	692.6	687.3	680.0	666.9	643.2	609.6	564.8	516.1
25°	734.7	723.5	713.6	707.7	704.4	699.1	683.3	657.0	614.2	561.5	503.0
27.5°	755.8	741.3	732.7	728.8	728.1	724.2	708.4	675.4	624.7	561.5	490.5
30°	780.8	768.3	757.1	757.1	765.0	762.3	744.6	703.7	641.2	563.5	481.2
32.5°	815.7	803.2	796.6	803.2	811.7	814.3	793.9	743.9	668.2	572.7	472.0
35°	867.0	859.1	854.5	864.4	881.5	888.1	863.1	803.8	707.7	590.5	466.8
37.5°	934.8	928.9	923.0	940.1	972.3	985.5	949.3	872.9	764.3	620.1	464.1
40°	1012.5	1013.2	1019.7	1054.0	1084.9	1112.6	1071.7	977.6	842.0	662.3	466.8
42.5°	1104.7	1111.9	1134.3	1181.7	1241.6	1263.3	1223.8	1104.0	938.8	713.0	473.3
45°	1219.2	1238.3	1276.5	1346.9	1419.3	1452.9	1397.0	1263.3	1060.6	793.9	491.8
47.5°	1341.0	1383.1	1447.7	1533.2	1617.5	1639.2	1570.1	1407.5	1179.7	865.7	520.1
50°	1497.0	1548.4	1612.9	1715.6	1805.1	1818.3	1726.8	1541.1	1283.7	928.2	547.1
52.5°	1642.5	1712.3	1794.6	1913.7	2004.6	1988.1	1869.6	1660.3	1366.0	971.0	562.2
55°	1841.3	1913.7	2006.6	2110.6	2200.8	2161.3	1999.3	1761.7	1431.9	1002.6	566.8
57.5°	2068.4	2123.7	2214.6	2321.2	2380.5	2312.7	2127.0	1860.4	1494.4	1003.3	530.6
60°	2291.6	2356.1	2456.2	2560.9	2593.8	2476.6	2215.9	1875.6	1432.5	895.3	424.6
62.5°	2622.1	2687.3	2738.0	2755.1	2695.8	2460.2	2112.6	1715.6	1235.0	706.4	300.9
65°	2991.4	2917.7	2819.6	2727.4	2566.1	2208.0	1821.6	1409.5	958.5	472.0	207.4
67.5°	3088.2	2863.7	2650.4	2445.0	2144.2	1758.4	1373.9	991.4	614.9	268.6	140.9
69°	2987.5	2659.6	2422.0	2096.1	1785.4	1316.0	946.7	635.3	367.3	187.0	117.8
70°	2803.1	2462.1	2140.2	1791.3	1383.1	1005.3	629.4	416.1	239.6	136.3	106.0
72.5°	2115.2	1691.2	1303.5	846.6	516.1	286.4	201.4	144.2	113.9	100.1	90.8
75°	1223.2	814.3	533.2	284.4	168.5	125.1	109.3	97.4	90.2	86.9	79.0
77.5°	516.1	322.6	218.6	160.0	113.2	96.8	84.3	77.7	77.0	75.0	67.8
80°	235.0	201.4	171.8	120.5	86.2	73.7	64.5	63.2	64.5	62.5	55.3
82.5°	174.5	171.8	143.5	92.8	65.8	49.4	40.2	42.1	47.4	51.3	44.8
85°	145.5	145.5	120.5	69.1	43.4	31.6	30.9	34.9	39.5	42.8	36.2
87.5°	133.6	128.4	69.1	35.5	25.0	20.4	19.1	17.1	17.1	29.6	25.0
90°	20.2	12.9	11.3	11.6	12.3	11.6	11.9	10.3	10.3	10.3	11.3
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: P227079

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7030-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: P227079

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7030-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4	679.4
2.5°	662.9	660.3	653.7	652.4	650.4	647.8	647.1	643.8	637.3	635.9	636.6
5°	632.6	622.1	614.9	608.9	604.3	592.5	587.9	582.6	573.4	570.8	566.8
7.5°	597.1	584.6	570.1	559.6	547.1	534.6	524.7	512.2	502.3	496.4	485.8
10°	569.4	552.3	533.2	512.2	495.7	476.6	464.1	449.6	433.8	419.4	408.8
12.5°	548.4	524.7	497.0	472.0	448.3	427.9	405.5	385.1	365.4	345.6	328.5
15°	531.3	501.6	466.8	435.2	406.2	375.9	350.9	322.6	297.6	280.4	258.7
17.5°	512.8	474.7	433.2	396.3	358.8	327.2	295.6	266.0	242.3	219.9	202.1
20°	490.5	444.4	399.6	356.8	314.0	277.8	245.6	217.2	194.2	176.4	163.3
22.5°	465.4	411.5	359.4	312.7	269.9	234.4	204.1	183.0	165.9	156.0	152.1
25°	441.1	379.2	320.6	269.3	226.5	196.2	175.8	158.0	149.4	145.5	145.5
27.5°	418.7	346.3	281.1	231.1	189.6	165.9	150.1	142.9	138.9	138.9	140.9
30°	397.6	313.4	243.6	192.9	160.0	142.2	133.6	131.0	131.7	134.3	136.9
32.5°	373.3	281.8	211.3	165.9	138.9	127.1	120.5	121.1	124.4	129.0	133.6
35°	347.6	248.2	183.0	145.5	124.4	115.2	111.3	111.9	116.5	122.4	127.1
37.5°	324.6	221.2	161.3	129.7	113.9	108.0	104.7	105.3	108.6	115.9	121.8
40°	301.5	198.2	143.5	120.5	108.0	102.0	100.1	99.4	102.0	108.6	115.9
42.5°	281.8	178.4	133.0	113.9	104.0	98.7	96.1	96.1	97.4	102.7	109.9
45°	269.9	166.6	125.7	109.3	100.7	96.1	93.5	92.2	94.1	97.4	104.0
47.5°	269.9	160.6	121.1	106.0	98.1	94.1	90.8	90.2	90.8	94.1	100.7
50°	279.1	161.9	120.5	104.7	96.8	91.5	88.2	88.2	89.5	94.1	99.4
52.5°	287.0	164.6	122.4	106.0	96.8	90.2	86.2	85.6	87.6	92.2	96.8
55°	285.7	164.6	124.4	108.0	98.7	90.8	85.6	84.9	86.2	90.8	95.5
57.5°	255.4	154.7	122.4	109.3	101.4	94.1	88.9	86.9	88.2	92.2	96.1
60°	206.7	137.6	117.2	109.3	105.3	100.1	94.8	93.5	94.1	98.1	102.7
62.5°	161.9	122.4	110.6	108.6	107.3	104.7	102.7	101.4	101.4	104.7	108.6
65°	131.7	110.6	105.3	106.0	107.3	106.6	106.0	105.3	105.3	107.3	111.3
67.5°	109.9	99.4	98.1	100.1	101.4	102.0	102.7	102.0	102.7	104.7	109.3
69°	100.1	93.5	92.2	93.5	96.1	96.8	98.1	97.4	98.1	100.1	104.7
70°	94.1	88.9	87.6	89.5	91.5	92.2	93.5	92.8	93.5	95.5	100.1
72.5°	81.6	75.7	73.7	75.0	77.0	77.0	79.0	79.7	78.3	79.0	82.3
75°	69.8	63.2	59.9	60.6	60.6	60.6	61.9	61.9	60.6	59.9	60.6
77.5°	58.6	51.3	47.4	47.4	47.4	46.7	44.8	45.4	46.1	45.4	46.1
80°	46.1	40.2	36.2	36.2	36.2	34.9	34.2	34.2	35.5	36.9	36.2
82.5°	35.5	29.6	27.6	27.0	27.0	25.7	25.7	27.0	26.3	27.0	28.3
85°	25.7	21.1	19.1	19.7	19.1	17.8	18.4	20.4	20.4	19.7	21.1
87.5°	15.8	13.2	12.5	13.2	11.8	9.9	9.2	9.9	11.2	10.5	11.8
90°	11.0	10.3	10.3	9.3	9.0	8.3	8.3	8.8	10.0	10.0	9.3
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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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: P227079
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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
679.4	679.4	679.4	679.4	679.4
632.0	634.0	625.4	629.4	626.7
562.9	559.6	558.9	556.9	553.0
481.9	479.3	471.4	474.0	468.1
398.3	397.6	383.1	383.8	376.6
321.3	309.4	303.5	294.9	299.5
248.8	239.0	226.5	223.2	227.8
187.6	177.7	171.8	166.6	164.6
155.4	149.4	146.1	144.2	142.9
150.1	148.8	148.1	146.8	146.1
146.8	148.1	148.1	148.1	146.8
143.5	146.1	146.8	146.1	144.8
140.2	142.2	142.2	141.5	139.6
135.6	137.6	137.6	136.9	135.6
130.3	131.7	132.3	132.3	133.0
126.4	127.7	129.0	130.3	132.3
121.8	123.8	124.4	127.1	129.7
115.9	118.5	119.8	121.8	124.4
109.9	113.2	113.9	116.5	119.2
107.3	109.9	109.9	111.9	113.9
104.0	105.3	104.7	106.0	106.6
100.7	102.0	101.4	102.7	103.4
98.1	99.4	100.7	102.0	102.7
99.4	101.4	102.0	104.0	104.7
105.3	108.0	110.6	113.2	115.2
111.3	114.5	120.5	132.3	136.9
114.5	119.2	133.0	153.4	159.3
112.6	118.5	135.0	156.7	163.9
108.6	113.2	131.0	153.4	160.0
103.4	108.0	125.7	150.1	156.0
83.6	86.2	106.0	129.0	133.0
61.2	63.2	78.3	87.6	86.9
47.4	50.0	55.3	56.0	55.3
37.5	38.8	41.5	41.5	42.1
29.0	29.6	30.9	29.6	29.0
21.7	21.1	20.4	19.7	19.1
12.5	12.5	10.5	9.2	8.6
8.8	9.0	8.0	6.3	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

'227079

IST-AF-800-LED-E1-SL4-7030-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)