

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: P227076

Luminaire Tested: **IST-AF-800-LED-E1-SL4-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227076  
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-SL4-8030-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) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

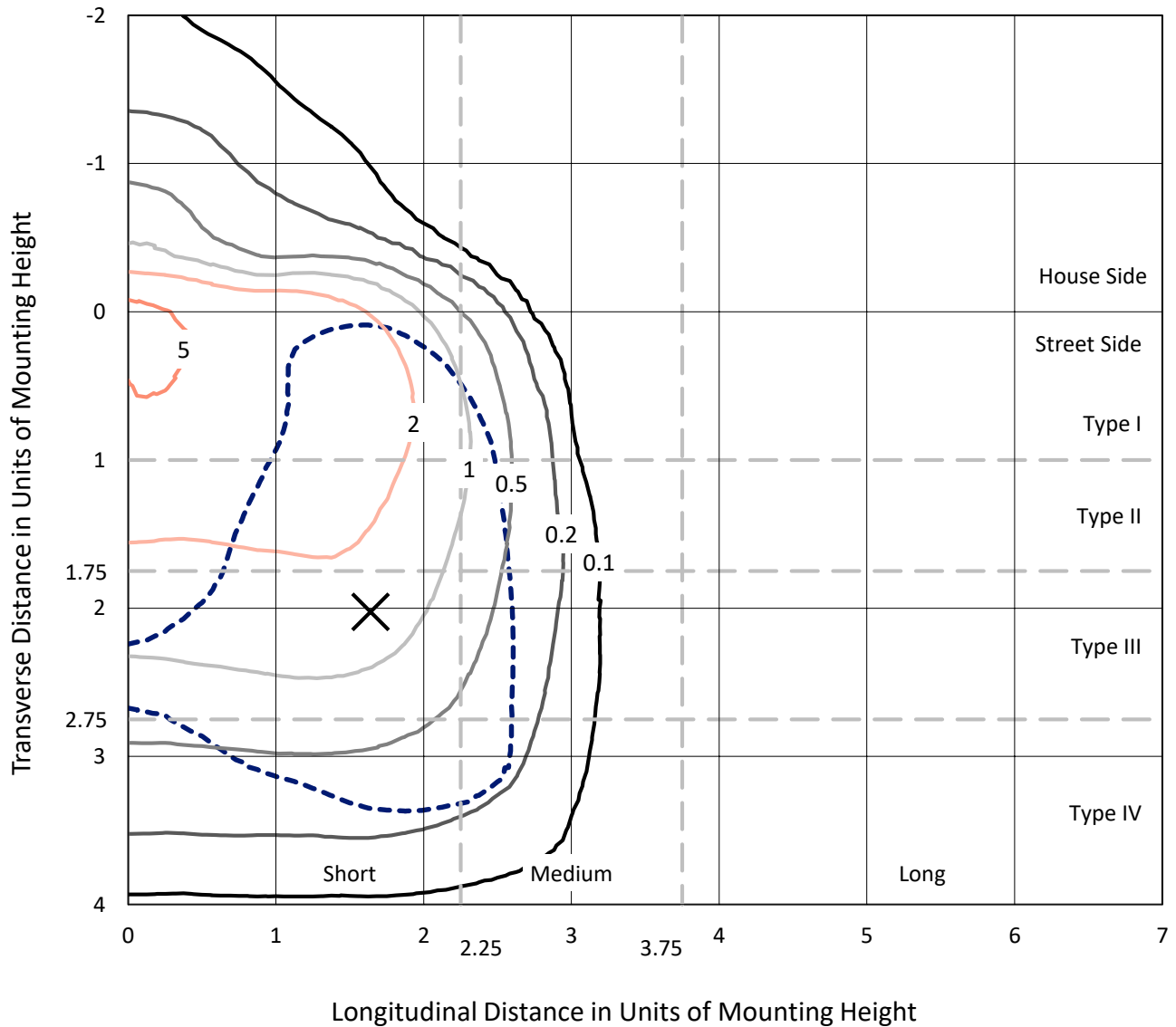
Lumens per Lamp: N/A  
Luminaire Lumens: 5475.3 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 120  
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

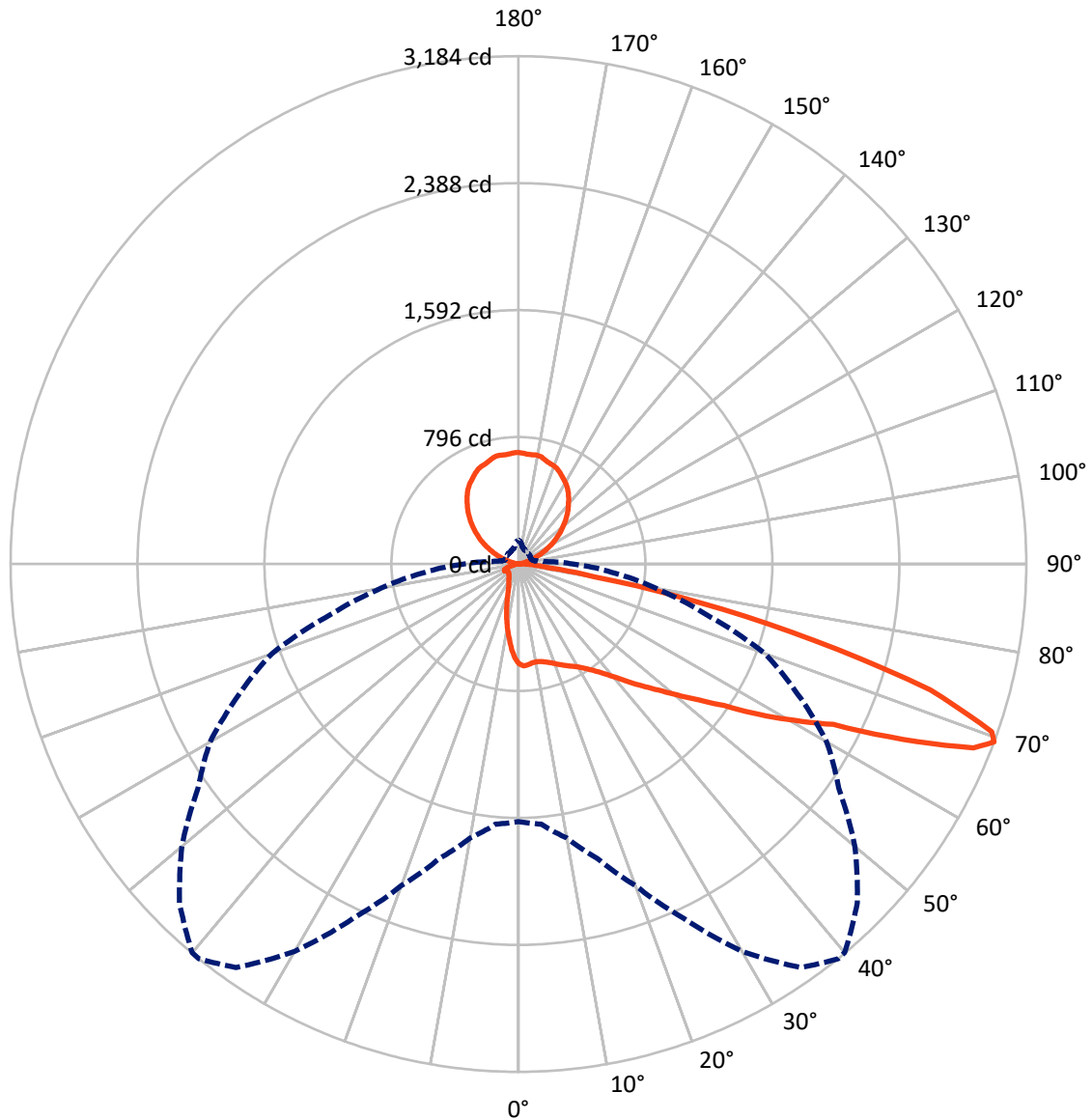
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 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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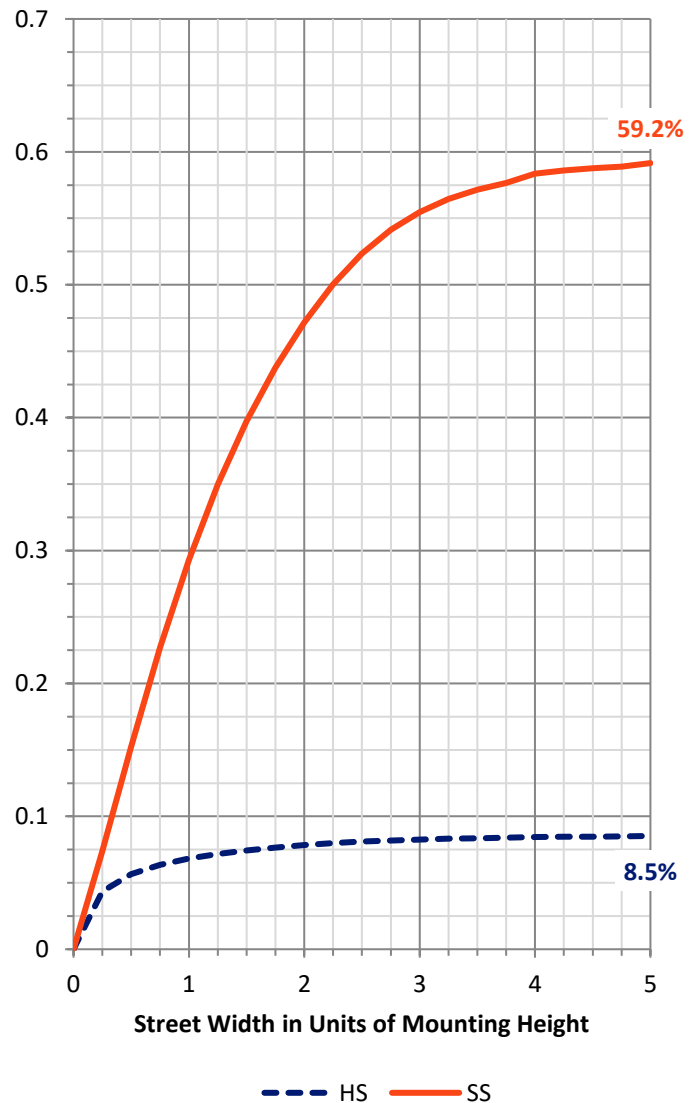
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	473.6	867.7	1341.3
	% Fixture	8.6	15.8	24.5
<b>Street Side</b>	Lumens	3265.6	868.5	4134.1
	% Fixture	59.6	15.9	75.5
<b>Total</b>	Lumens	3739.2	1736.2	5475.3
	% Fixture	68.3	31.7	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	1.0
10°-20°	136.3	2.5
20°-30°	212.2	3.9
30°-40°	320.7	5.9
40°-50°	513.1	9.4
50°-60°	806.5	14.7
60°-70°	1085.9	19.8
70°-80°	538.6	9.8
80°-90°	71.8	1.3
90°-100°	10.3	0.2
100°-110°	57.4	1.0
110°-120°	166.1	3.0
120°-130°	273.2	5.0
130°-140°	336.8	6.2
140°-150°	344.6	6.3
150°-160°	290.3	5.3
160°-170°	191.2	3.5
170°-180°	66.3	1.2
0°-90°	3739.2	68.3
0°-180°	5475.3	100.0

**Coefficient of Utilization**



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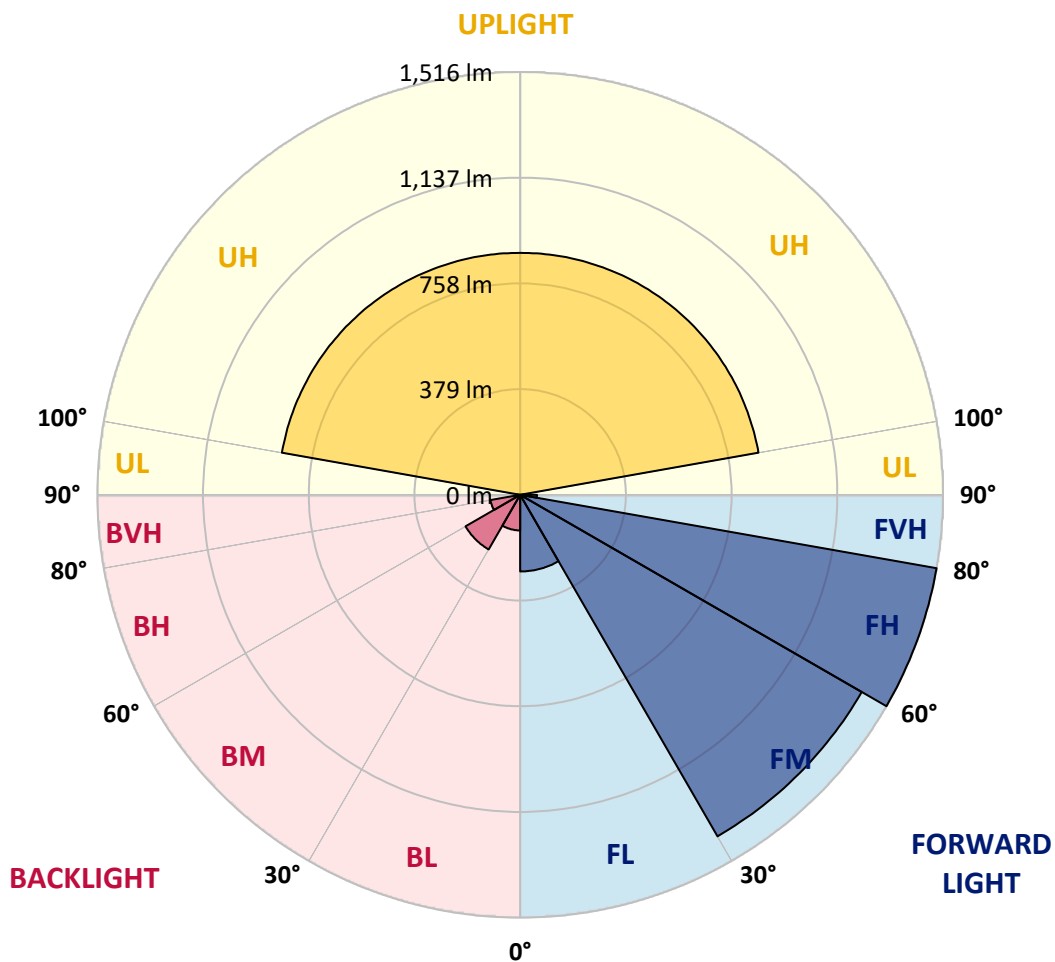
CATALOG NUMBER: IST-AF-800-LED-E1-SL4-8030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.9	5.0			
FM	(30°-60°)	1414.3	25.8			
FH	(60°-80°)	1516.3	27.7			G1/1800
FVH	(80°-90°)	60.1	1.1			G1/100
BL	(0°-30°)	127.6	2.3	B1/500		
BM	(30°-60°)	226.0	4.1	B1/1000		
BH	(60°-80°)	108.3	2.0	B0/110		G0/110
BVH	(80°-90°)	11.7	0.2			G1/100
UL	(90°-100°)	10.3	0.2		U2/50	
UH	(100°-180°)	867.7	15.8		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°	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	641.4	642.1	642.1	642.7	640.2	640.2	640.8	638.4	639.6	639.0	636.0
5°	642.7	643.3	642.7	643.3	640.2	639.0	636.6	633.6	634.8	634.2	629.9
7.5°	639.6	640.2	639.0	639.6	636.0	633.6	629.9	627.5	625.7	625.1	619.6
10°	633.0	634.8	632.3	634.2	631.1	628.7	626.9	624.5	623.2	622.6	616.6
12.5°	623.2	624.5	625.1	627.5	627.5	628.1	628.1	626.3	626.9	626.3	621.4
15°	614.1	618.4	622.6	625.1	629.9	633.0	635.4	634.8	636.6	636.0	633.0
17.5°	614.1	617.8	625.1	633.0	642.1	646.3	649.9	649.9	650.6	649.3	644.5
20°	616.6	623.2	635.4	648.7	659.7	668.2	670.6	670.0	667.5	667.5	659.0
22.5°	636.6	640.8	654.2	668.8	683.9	692.4	693.0	691.2	686.4	685.1	674.8
25°	665.1	670.0	682.1	700.9	712.5	719.1	717.3	711.2	706.4	702.1	691.2
27.5°	709.4	713.1	725.2	737.9	744.6	747.0	739.8	731.3	725.8	724.0	709.4
30°	754.9	759.8	769.5	777.4	782.8	775.6	764.0	754.3	749.5	748.3	734.9
32.5°	810.8	811.4	818.0	819.9	820.5	808.3	792.6	783.5	781.6	779.2	768.9
35°	861.7	864.8	863.6	863.0	857.5	842.3	829.0	823.5	821.7	821.1	812.6
37.5°	907.3	912.1	909.1	903.6	896.9	884.8	870.8	864.8	870.8	867.2	869.0
40°	951.6	951.6	947.9	944.9	937.0	925.5	920.6	921.2	930.9	933.3	935.8
42.5°	989.8	989.2	985.5	983.1	981.9	979.5	977.0	988.6	1007.4	1011.0	1016.5
45°	1031.7	1031.1	1017.1	1022.0	1030.4	1032.3	1040.8	1067.5	1090.5	1092.3	1103.9
47.5°	1072.3	1067.5	1054.1	1059.0	1083.2	1096.0	1109.9	1147.6	1179.7	1186.4	1218.6
50°	1114.8	1109.9	1095.4	1104.5	1138.5	1162.1	1194.9	1247.1	1291.4	1300.5	1342.4
52.5°	1159.1	1158.5	1147.0	1160.9	1202.8	1250.7	1302.3	1361.2	1415.2	1426.7	1488.6
55°	1212.5	1209.5	1204.6	1221.6	1281.1	1345.4	1426.1	1506.2	1565.1	1585.7	1648.2
57.5°	1272.6	1271.4	1272.0	1307.2	1378.8	1476.5	1575.4	1683.4	1780.5	1795.1	1853.3
60°	1324.8	1327.2	1341.2	1396.4	1486.2	1618.5	1757.5	1903.7	1989.9	2005.1	2062.1
62.5°	1388.5	1402.5	1433.4	1503.2	1608.8	1769.0	1949.2	2104.0	2215.0	2246.0	2354.0
65°	1541.4	1552.3	1610.0	1694.3	1829.1	2034.2	2241.1	2466.3	2649.5	2677.5	2770.3
67.5°	1653.1	1681.0	1771.4	1909.2	2104.0	2366.1	2650.2	2922.6	3077.4	3090.1	3025.2
69°	1614.2	1637.3	1744.1	1910.4	2145.2	2450.5	2803.7	3088.3	3183.6	3181.2	3004.6
70°	1554.8	1576.0	1693.7	1855.2	2110.7	2440.8	2806.1	3089.5	3147.2	3125.3	2923.2
72.5°	1302.3	1321.1	1431.6	1600.3	1847.9	2175.6	2519.7	2713.3	2701.1	2682.9	2349.2
75°	813.2	812.0	908.5	1006.2	1198.5	1529.9	1786.0	1941.3	1916.5	1902.5	1508.0
77.5°	304.0	325.3	360.5	465.5	554.1	733.1	940.0	1113.0	1160.9	1099.6	812.0
80°	158.4	169.9	193.0	230.0	264.6	302.8	364.1	468.5	484.9	452.1	327.7
82.5°	125.0	139.0	162.0	193.6	217.9	203.3	191.8	198.4	197.2	188.1	166.9
85°	94.7	111.1	148.7	180.8	215.4	182.1	145.0	126.8	112.9	113.5	120.8
87.5°	47.3	61.3	117.1	157.8	187.5	120.8	94.7	73.4	61.3	58.9	78.9
90°	19.6	19.6	29.7	37.9	50.0	29.2	28.6	23.8	19.1	19.0	25.2
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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**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°	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	633.6	633.6	632.3	631.7	629.9	627.5	625.7	622.6	620.8	617.8	614.1
5°	625.7	623.2	622.0	619.6	616.0	612.9	609.3	605.0	600.2	594.1	587.4
7.5°	615.4	611.7	607.5	606.3	602.0	598.4	594.1	588.0	581.4	570.4	562.0
10°	611.1	607.5	603.8	601.4	595.9	591.7	586.8	578.9	570.4	555.9	540.1
12.5°	615.4	611.7	608.1	603.8	599.0	594.1	587.4	577.7	566.2	547.4	528.0
15°	625.7	622.0	616.0	611.7	605.0	600.8	591.7	580.8	563.8	540.7	515.2
17.5°	637.2	631.7	626.3	619.6	613.5	608.1	598.4	584.4	563.2	535.9	503.1
20°	648.1	642.1	633.6	628.7	622.6	614.7	604.4	587.4	562.0	526.1	490.3
22.5°	660.9	653.0	643.9	638.4	633.6	626.9	614.7	592.9	562.0	520.7	475.8
25°	677.3	666.9	657.8	652.4	649.3	644.5	629.9	605.6	566.2	517.7	463.6
27.5°	696.7	683.3	675.4	671.8	671.2	667.5	653.0	622.6	575.9	517.7	452.1
30°	719.7	708.2	697.9	697.9	705.2	702.7	686.4	648.7	591.1	519.5	443.6
32.5°	751.9	740.4	734.3	740.4	748.3	750.7	731.9	685.8	616.0	528.0	435.1
35°	799.2	792.0	787.7	796.8	812.6	818.7	795.6	741.0	652.4	544.4	430.3
37.5°	861.7	856.3	850.8	866.6	896.3	908.5	875.1	804.7	704.6	571.7	427.8
40°	933.3	934.0	940.0	971.6	1000.1	1025.6	988.0	901.2	776.2	610.5	430.3
42.5°	1018.3	1025.0	1045.6	1089.3	1144.5	1164.6	1128.2	1017.7	865.4	657.2	436.3
45°	1123.9	1141.5	1176.7	1241.6	1308.4	1339.3	1287.8	1164.6	977.6	731.9	453.3
47.5°	1236.2	1275.0	1334.5	1413.4	1491.1	1511.1	1447.4	1297.5	1087.5	798.0	479.4
50°	1380.0	1427.3	1486.8	1581.5	1664.0	1676.1	1591.8	1420.7	1183.4	855.7	504.3
52.5°	1514.1	1578.4	1654.3	1764.1	1847.9	1832.7	1723.5	1530.5	1259.2	895.1	518.3
55°	1697.4	1764.1	1849.7	1945.6	2028.7	1992.3	1843.0	1624.0	1319.9	924.2	522.5
57.5°	1906.8	1957.7	2041.5	2139.8	2194.4	2131.9	1960.8	1715.0	1377.6	924.9	489.1
60°	2112.5	2171.9	2264.2	2360.7	2391.0	2283.0	2042.7	1728.9	1320.5	825.3	391.4
62.5°	2417.1	2477.2	2523.9	2539.7	2485.1	2267.8	1947.4	1581.5	1138.5	651.2	277.3
65°	2757.6	2689.6	2599.2	2514.2	2365.5	2035.4	1679.2	1299.3	883.6	435.1	191.2
67.5°	2846.8	2639.8	2443.2	2253.9	1976.5	1620.9	1266.5	913.9	566.8	247.6	129.9
69°	2753.9	2451.7	2232.6	1932.2	1645.8	1213.1	872.7	585.6	338.6	172.3	108.6
70°	2584.0	2269.7	1972.9	1651.3	1275.0	926.7	580.2	383.5	220.9	125.6	97.7
72.5°	1949.8	1559.0	1201.6	780.4	475.8	264.0	185.7	132.9	105.0	92.2	83.7
75°	1127.5	750.7	491.6	262.2	155.4	115.3	100.7	89.8	83.1	80.1	72.8
77.5°	475.8	297.4	201.5	147.5	104.4	89.2	77.7	71.6	71.0	69.2	62.5
80°	216.6	185.7	158.4	111.1	79.5	68.0	59.5	58.3	59.5	57.7	51.0
82.5°	160.8	158.4	132.3	85.6	60.7	45.5	37.0	38.8	43.7	47.3	41.3
85°	134.1	134.1	111.1	63.7	40.1	29.1	28.5	32.2	36.4	39.4	33.4
87.5°	123.2	118.3	63.7	32.8	23.1	18.8	17.6	15.8	15.8	27.3	23.1
90°	19.1	12.5	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: P227076

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-8030-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: P227076

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3	626.3
2.5°	611.1	608.7	602.6	601.4	599.6	597.1	596.5	593.5	587.4	586.2	586.8
5°	583.2	573.5	566.8	561.3	557.1	546.2	541.9	537.1	528.6	526.1	522.5
7.5°	550.4	538.9	525.5	515.8	504.3	492.8	483.7	472.1	463.0	457.6	447.9
10°	524.9	509.2	491.6	472.1	457.0	439.4	427.8	414.5	399.9	386.6	376.9
12.5°	505.5	483.7	458.2	435.1	413.3	394.5	373.8	355.0	336.8	318.6	302.8
15°	489.7	462.4	430.3	401.1	374.4	346.5	323.5	297.4	274.3	258.5	238.5
17.5°	472.7	437.5	399.3	365.3	330.7	301.6	272.5	245.2	223.3	202.7	186.3
20°	452.1	409.6	368.4	328.9	289.5	256.1	226.4	200.3	179.0	162.6	150.5
22.5°	429.0	379.3	331.3	288.3	248.8	216.0	188.1	168.7	152.9	143.8	140.2
25°	406.6	349.6	295.5	248.2	208.8	180.8	162.0	145.6	137.8	134.1	134.1
27.5°	386.0	319.2	259.1	213.0	174.8	152.9	138.4	131.7	128.0	128.0	129.9
30°	366.5	288.9	224.5	177.8	147.5	131.1	123.2	120.8	121.4	123.8	126.2
32.5°	344.1	259.7	194.8	152.9	128.0	117.1	111.1	111.7	114.7	118.9	123.2
35°	320.4	228.8	168.7	134.1	114.7	106.2	102.6	103.2	107.4	112.9	117.1
37.5°	299.2	203.9	148.7	119.6	105.0	99.5	96.5	97.1	100.1	106.8	112.3
40°	277.9	182.7	132.3	111.1	99.5	94.1	92.2	91.6	94.1	100.1	106.8
42.5°	259.7	164.5	122.6	105.0	95.9	91.0	88.6	88.6	89.8	94.7	101.3
45°	248.8	153.5	115.9	100.7	92.8	88.6	86.2	85.0	86.8	89.8	95.9
47.5°	248.8	148.1	111.7	97.7	90.4	86.8	83.7	83.1	83.7	86.8	92.8
50°	257.3	149.3	111.1	96.5	89.2	84.4	81.3	81.3	82.5	86.8	91.6
52.5°	264.6	151.7	112.9	97.7	89.2	83.1	79.5	78.9	80.7	85.0	89.2
55°	263.4	151.7	114.7	99.5	91.0	83.7	78.9	78.3	79.5	83.7	88.0
57.5°	235.5	142.6	112.9	100.7	93.5	86.8	81.9	80.1	81.3	85.0	88.6
60°	190.6	126.8	108.0	100.7	97.1	92.2	87.4	86.2	86.8	90.4	94.7
62.5°	149.3	112.9	102.0	100.1	98.9	96.5	94.7	93.5	93.5	96.5	100.1
65°	121.4	102.0	97.1	97.7	98.9	98.3	97.7	97.1	97.1	98.9	102.6
67.5°	101.3	91.6	90.4	92.2	93.5	94.1	94.7	94.1	94.7	96.5	100.7
69°	92.2	86.2	85.0	86.2	88.6	89.2	90.4	89.8	90.4	92.2	96.5
70°	86.8	81.9	80.7	82.5	84.4	85.0	86.2	85.6	86.2	88.0	92.2
72.5°	75.3	69.8	68.0	69.2	71.0	71.0	72.8	73.4	72.2	72.8	75.9
75°	64.3	58.3	55.2	55.8	55.8	55.8	57.0	57.0	55.8	55.2	55.8
77.5°	54.0	47.3	43.7	43.7	43.7	43.1	41.3	41.9	42.5	41.9	42.5
80°	42.5	37.0	33.4	33.4	33.4	32.2	31.6	31.6	32.8	34.0	33.4
82.5°	32.8	27.3	25.5	24.9	24.9	23.7	23.7	24.9	24.3	24.9	26.1
85°	23.7	19.4	17.6	18.2	17.6	16.4	17.0	18.8	18.8	18.2	19.4
87.5°	14.6	12.1	11.5	12.1	10.9	9.1	8.5	9.1	10.3	9.7	10.9
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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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°

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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
626.3	626.3	626.3	626.3	626.3
582.6	584.4	576.5	580.2	577.7
518.9	515.8	515.2	513.4	509.8
444.2	441.8	434.5	436.9	431.5
367.1	366.5	353.2	353.8	347.1
296.1	285.2	279.8	271.9	276.1
229.4	220.3	208.8	205.7	210.0
173.0	163.9	158.4	153.5	151.7
143.2	137.8	134.7	132.9	131.7
138.4	137.2	136.5	135.3	134.7
135.3	136.5	136.5	136.5	135.3
132.3	134.7	135.3	134.7	133.5
129.3	131.1	131.1	130.5	128.7
125.0	126.8	126.8	126.2	125.0
120.2	121.4	122.0	122.0	122.6
116.5	117.7	118.9	120.2	122.0
112.3	114.1	114.7	117.1	119.6
106.8	109.2	110.4	112.3	114.7
101.3	104.4	105.0	107.4	109.8
98.9	101.3	101.3	103.2	105.0
95.9	97.1	96.5	97.7	98.3
92.8	94.1	93.5	94.7	95.3
90.4	91.6	92.8	94.1	94.7
91.6	93.5	94.1	95.9	96.5
97.1	99.5	102.0	104.4	106.2
102.6	105.6	111.1	122.0	126.2
105.6	109.8	122.6	141.4	146.9
103.8	109.2	124.4	144.4	151.1
100.1	104.4	120.8	141.4	147.5
95.3	99.5	115.9	138.4	143.8
77.1	79.5	97.7	118.9	122.6
56.4	58.3	72.2	80.7	80.1
43.7	46.1	51.0	51.6	51.0
34.6	35.8	38.2	38.2	38.8
26.7	27.3	28.5	27.3	26.7
20.0	19.4	18.8	18.2	17.6
11.5	11.5	9.7	8.5	7.9
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

'227076

IST-AF-800-LED-E1-SL4-8030-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)