

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: P227104

Luminaire Tested: **IST-AF-1000-LED-E1-SL4-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227104  
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-1000-LED-E1-SL4-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCUED 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: 6530.7 lumens  
Efficiency: N/A  
Efficacy: 91.6 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 - G2

Input Watts (W): 71.3  
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

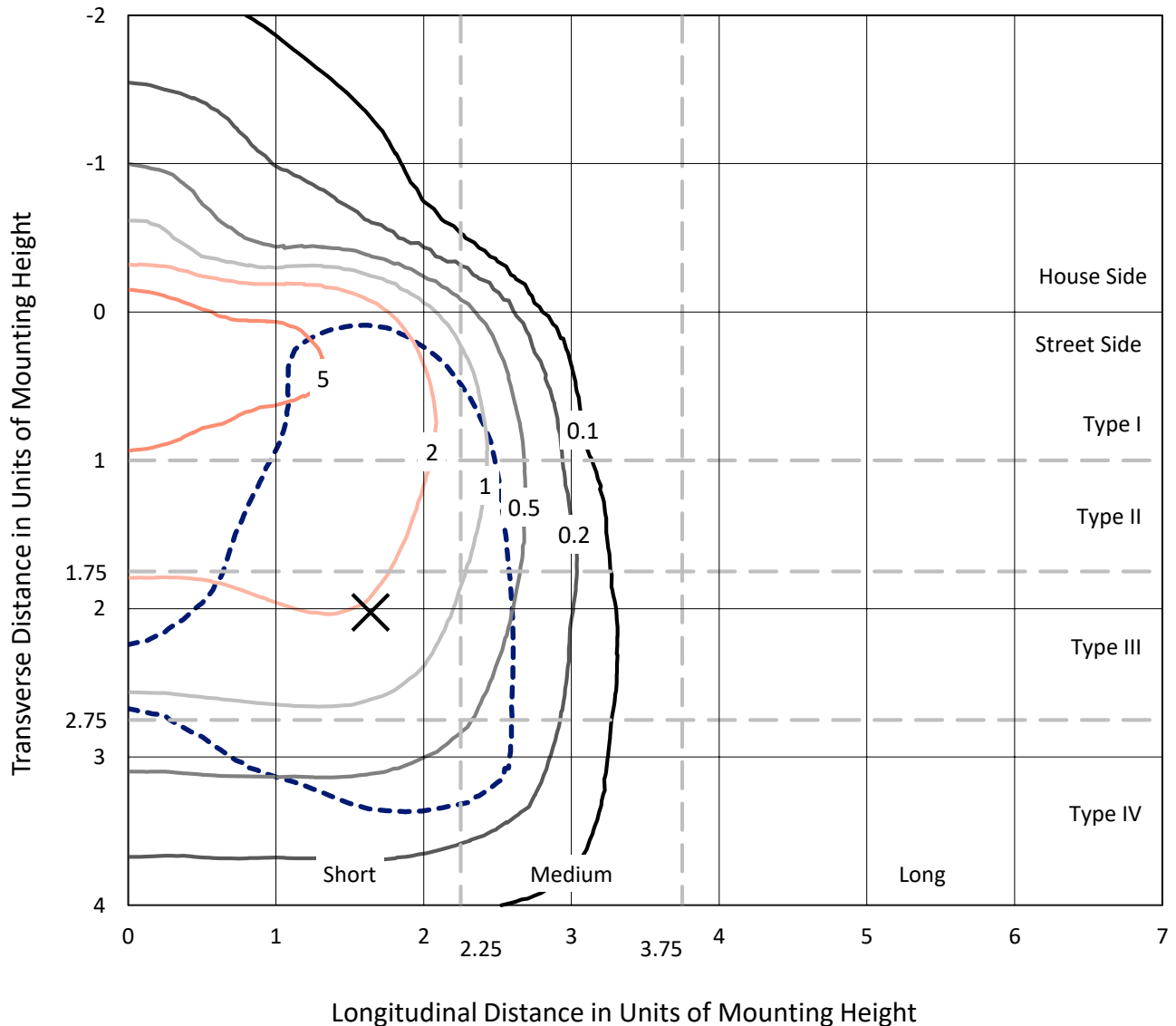


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### Iso-Footcandle Lines of Horizontal Illumination

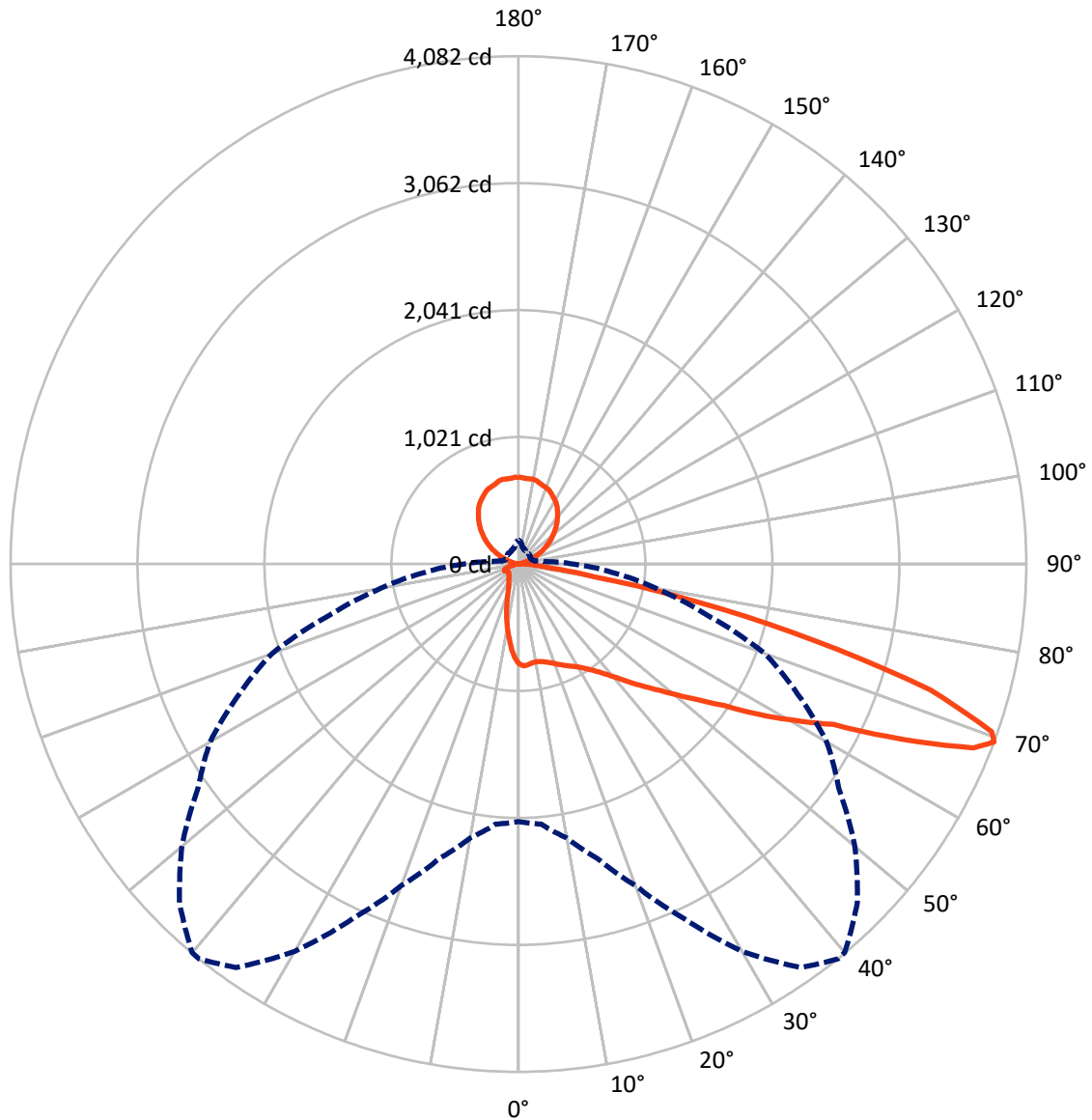
✕ Max cd  
 - - - 1/2 Max cd



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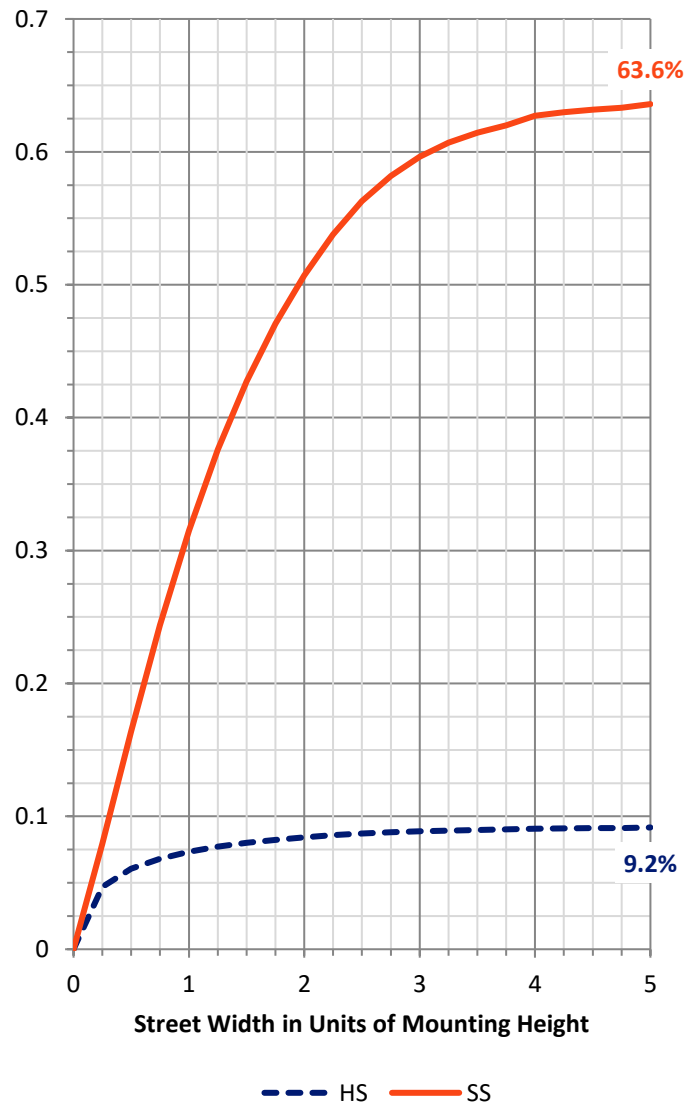
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	607.1	867.7	1474.9
	% Fixture	9.3	13.3	22.6
<b>Street Side</b>	Lumens	4187.1	868.8	5055.9
	% Fixture	64.1	13.3	77.4
<b>Total</b>	Lumens	4794.3	1736.5	6530.7
	% Fixture	73.4	26.6	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.1
10°-20°	174.8	2.7
20°-30°	272.1	4.2
30°-40°	411.2	6.3
40°-50°	658.0	10.1
50°-60°	1034.1	15.8
60°-70°	1392.4	21.3
70°-80°	690.7	10.6
80°-90°	91.8	1.4
90°-100°	10.6	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.5
120°-130°	273.2	4.2
130°-140°	336.8	5.2
140°-150°	344.6	5.3
150°-160°	290.3	4.4
160°-170°	191.2	2.9
170°-180°	66.3	1.0
0°-90°	4794.3	73.4
0°-180°	6530.7	100.0

**Coefficient of Utilization**



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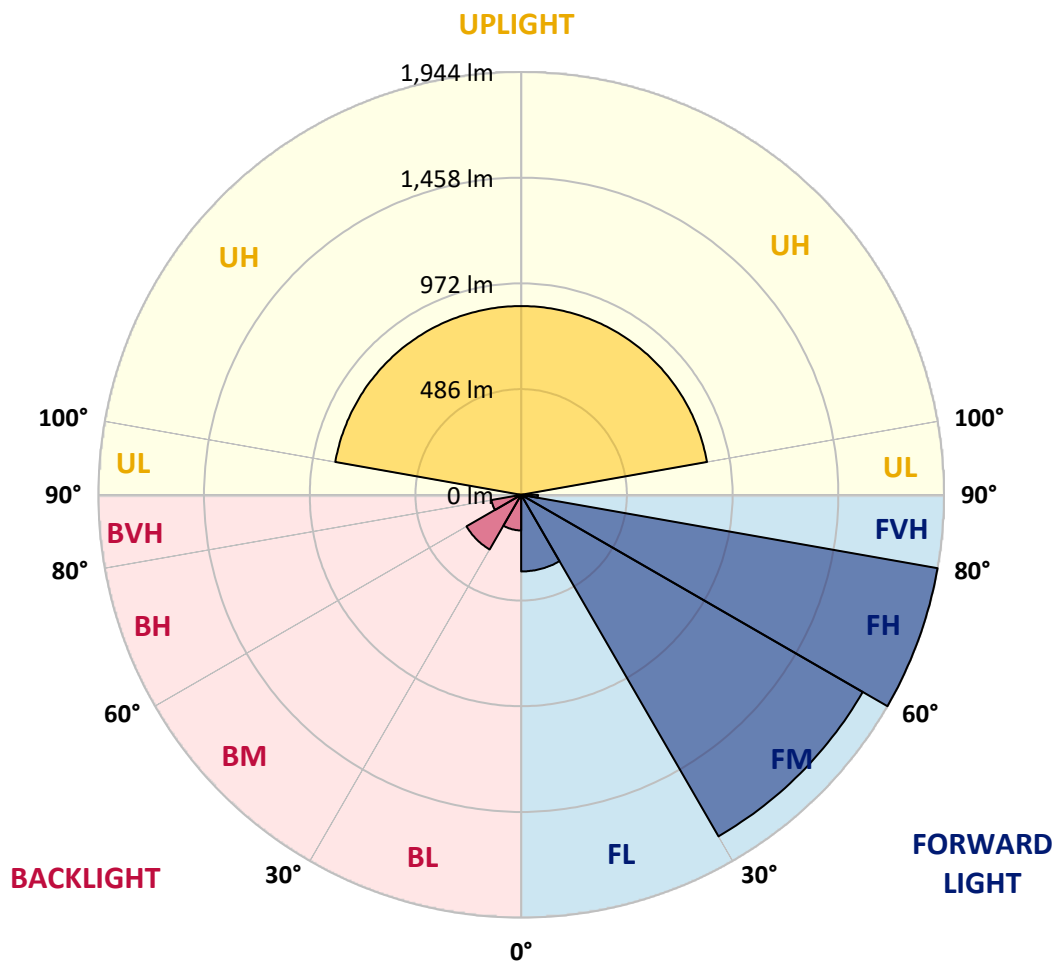
CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.5	5.4			
FM	(30°-60°)	1813.4	27.8			
FH	(60°-80°)	1944.2	29.8			G2/5000
FVH	(80°-90°)	76.9	1.2			G1/100
BL	(0°-30°)	163.7	2.5	B1/500		
BM	(30°-60°)	289.8	4.4	B1/1000		
BH	(60°-80°)	138.9	2.1	B1/500		G1/500
BVH	(80°-90°)	14.8	0.2			G1/100
UL	(90°-100°)	10.6	0.2		U2/50	
UH	(100°-180°)	867.7	13.3		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0
2.5°	822.5	823.3	823.3	824.1	820.9	820.9	821.7	818.6	820.2	819.4	815.5
5°	824.1	824.8	824.1	824.8	820.9	819.4	816.3	812.4	813.9	813.2	807.7
7.5°	820.2	820.9	819.4	820.2	815.5	812.4	807.7	804.6	802.3	801.5	794.5
10°	811.6	813.9	810.8	813.2	809.3	806.2	803.8	800.7	799.2	798.4	790.6
12.5°	799.2	800.7	801.5	804.6	804.6	805.4	805.4	803.0	803.8	803.0	796.8
15°	787.5	792.9	798.4	801.5	807.7	811.6	814.7	813.9	816.3	815.5	811.6
17.5°	787.5	792.2	801.5	811.6	823.3	828.7	833.4	833.4	834.2	832.6	826.4
20°	790.6	799.2	814.7	831.8	845.8	856.7	859.9	859.1	856.0	856.0	845.1
22.5°	816.3	821.7	838.8	857.5	877.0	887.9	888.6	886.3	880.1	878.5	865.3
25°	852.8	859.1	874.6	898.8	913.5	922.1	919.8	912.0	905.8	900.3	886.3
27.5°	909.7	914.3	929.9	946.2	954.8	957.9	948.6	937.7	930.7	928.3	909.7
30°	968.0	974.2	986.7	996.8	1003.8	994.5	979.7	967.2	961.0	959.5	942.3
32.5°	1039.6	1040.4	1048.9	1051.3	1052.1	1036.5	1016.3	1004.6	1002.3	999.1	985.9
35°	1105.0	1108.9	1107.3	1106.5	1099.5	1080.1	1062.9	1055.9	1053.6	1052.8	1041.9
37.5°	1163.3	1169.6	1165.7	1158.7	1150.1	1134.5	1116.6	1108.9	1116.6	1112.0	1114.3
40°	1220.1	1220.1	1215.5	1211.6	1201.5	1186.7	1180.4	1181.2	1193.7	1196.8	1199.9
42.5°	1269.2	1268.4	1263.7	1260.6	1259.0	1255.9	1252.8	1267.6	1291.7	1296.4	1303.4
45°	1322.8	1322.1	1304.2	1310.4	1321.3	1323.6	1334.5	1368.8	1398.3	1400.7	1415.4
47.5°	1375.0	1368.8	1351.6	1357.9	1389.0	1405.3	1423.2	1471.5	1512.7	1521.3	1562.5
50°	1429.5	1423.2	1404.6	1416.2	1459.8	1490.1	1532.2	1599.1	1655.9	1667.6	1721.3
52.5°	1486.3	1485.5	1470.7	1488.6	1542.3	1603.8	1669.9	1745.4	1814.6	1829.4	1908.8
55°	1554.7	1550.8	1544.6	1566.4	1642.7	1725.2	1828.6	1931.4	2006.8	2033.3	2113.4
57.5°	1631.8	1630.2	1631.0	1676.1	1767.9	1893.2	2020.1	2158.6	2283.1	2301.8	2376.5
60°	1698.7	1701.8	1719.7	1790.5	1905.7	2075.3	2253.5	2441.0	2551.5	2571.0	2644.1
62.5°	1780.4	1798.3	1838.0	1927.5	2062.9	2268.3	2499.4	2697.8	2840.2	2879.9	3018.4
65°	1976.5	1990.5	2064.4	2172.6	2345.3	2608.3	2873.7	3162.4	3397.4	3433.2	3552.2
67.5°	2119.7	2155.5	2271.4	2448.0	2697.8	3034.0	3398.2	3747.6	3946.0	3962.3	3879.1
69°	2069.9	2099.4	2236.4	2449.6	2750.7	3142.2	3595.0	3960.0	4082.2	4079.0	3852.6
70°	1993.6	2020.8	2171.8	2378.8	2706.4	3129.7	3598.1	3961.5	4035.5	4007.5	3748.3
72.5°	1669.9	1694.0	1835.6	2052.0	2369.5	2789.7	3230.9	3479.1	3463.5	3440.2	3012.2
75°	1042.7	1041.2	1164.9	1290.2	1536.8	1961.7	2290.1	2489.3	2457.4	2439.5	1933.7
77.5°	389.9	417.1	462.2	596.8	710.4	940.0	1205.3	1427.1	1488.6	1410.0	1041.2
80°	203.1	217.9	247.5	294.9	339.3	388.3	466.9	600.7	621.7	579.7	420.2
82.5°	160.3	178.2	207.8	248.2	279.4	260.7	245.9	254.5	252.9	241.2	214.0
85°	121.4	142.4	190.6	231.9	276.2	233.4	186.0	162.6	144.7	145.5	154.9
87.5°	60.7	78.6	150.2	202.3	240.4	154.9	121.4	94.2	78.6	75.5	101.2
90°	23.7	23.7	36.3	46.7	62.0	35.2	34.5	28.2	22.4	22.3	30.3
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°	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0
2.5°	812.4	812.4	810.8	810.1	807.7	804.6	802.3	798.4	796.0	792.2	787.5
5°	802.3	799.2	797.6	794.5	789.8	785.9	781.3	775.8	769.6	761.8	753.2
7.5°	789.0	784.4	778.9	777.4	771.9	767.3	761.8	754.0	745.5	731.5	720.6
10°	783.6	778.9	774.3	771.1	764.1	758.7	752.5	742.4	731.5	712.8	692.6
12.5°	789.0	784.4	779.7	774.3	768.0	761.8	753.2	740.8	726.0	701.9	677.0
15°	802.3	797.6	789.8	784.4	775.8	770.4	758.7	744.7	722.9	693.3	660.6
17.5°	817.1	810.1	803.0	794.5	786.7	779.7	767.3	749.4	722.1	687.1	645.1
20°	831.1	823.3	812.4	806.2	798.4	788.3	775.0	753.2	720.6	674.7	628.7
22.5°	847.4	837.3	825.6	818.6	812.4	803.8	788.3	760.2	720.6	667.6	610.1
25°	868.4	855.2	843.5	836.5	832.6	826.4	807.7	776.6	726.0	663.8	594.5
27.5°	893.3	876.2	866.1	861.4	860.6	856.0	837.3	798.4	738.5	663.8	579.7
30°	922.9	908.1	894.9	894.9	904.2	901.1	880.1	831.8	757.9	666.1	568.8
32.5°	964.1	949.3	941.6	949.3	959.5	962.6	938.4	879.3	789.8	677.0	557.9
35°	1024.8	1015.5	1010.0	1021.7	1041.9	1049.7	1020.1	950.1	836.5	698.0	551.7
37.5°	1105.0	1098.0	1091.0	1111.2	1149.3	1164.9	1122.1	1031.8	903.4	733.0	548.6
40°	1196.8	1197.6	1205.3	1245.8	1282.4	1315.1	1266.8	1155.5	995.2	782.8	551.7
42.5°	1305.7	1314.3	1340.7	1396.8	1467.6	1493.3	1446.6	1305.0	1109.6	842.7	559.5
45°	1441.1	1463.7	1508.8	1592.1	1677.7	1717.4	1651.2	1493.3	1253.6	938.4	581.3
47.5°	1585.1	1634.9	1711.1	1812.3	1911.9	1937.6	1855.9	1663.7	1394.4	1023.3	614.7
50°	1769.5	1830.2	1906.5	2027.8	2133.7	2149.2	2041.1	1821.6	1517.4	1097.2	646.6
52.5°	1941.5	2024.0	2121.2	2262.1	2369.5	2350.0	2209.9	1962.5	1614.7	1147.8	664.5
55°	2176.5	2262.1	2371.8	2494.7	2601.3	2554.7	2363.2	2082.3	1692.5	1185.1	670.0
57.5°	2444.9	2510.3	2617.7	2743.7	2813.8	2733.6	2514.2	2199.0	1766.4	1185.9	627.2
60°	2708.7	2785.0	2903.3	3027.0	3065.9	2927.4	2619.2	2216.9	1693.2	1058.3	501.9
62.5°	3099.4	3176.4	3236.3	3256.5	3186.5	2907.9	2497.1	2027.8	1459.8	835.0	355.6
65°	3535.9	3448.7	3332.8	3223.9	3033.2	2609.9	2153.1	1666.0	1133.0	557.9	245.1
67.5°	3650.3	3384.9	3132.8	2890.0	2534.4	2078.4	1624.0	1171.9	726.8	317.5	166.5
69°	3531.2	3143.7	2862.8	2477.6	2110.3	1555.5	1119.0	750.9	434.2	221.0	139.3
70°	3313.3	2910.3	2529.8	2117.3	1634.9	1188.2	743.9	491.8	283.2	161.1	125.3
72.5°	2500.2	1999.1	1540.7	1000.7	610.1	338.5	238.1	170.4	134.6	118.3	107.4
75°	1445.8	962.6	630.3	336.2	199.2	147.8	129.2	115.2	106.6	102.7	93.4
77.5°	610.1	381.3	258.3	189.1	133.8	114.4	99.6	91.8	91.0	88.7	80.1
80°	277.8	238.1	203.1	142.4	101.9	87.2	76.3	74.7	76.3	73.9	65.4
82.5°	206.2	203.1	169.6	109.7	77.8	58.4	47.5	49.8	56.0	60.7	52.9
85°	172.0	172.0	142.4	81.7	51.4	37.4	36.6	41.2	46.7	50.6	42.8
87.5°	158.0	151.7	81.7	42.0	29.6	24.1	22.6	20.2	20.2	35.0	29.6
90°	22.6	14.0	11.9	12.1	12.9	12.1	12.7	10.9	10.9	10.9	11.9
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: P227104

CATALOG NUMBER: IST-AF-1000-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: P227104

CATALOG NUMBER: IST-AF-1000-LED-E1-SL4-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0	803.0
2.5°	783.6	780.5	772.7	771.1	768.8	765.7	764.9	761.0	753.2	751.7	752.5
5°	747.8	735.3	726.8	719.8	714.3	700.3	694.9	688.7	677.8	674.7	670.0
7.5°	705.8	691.0	673.9	661.4	646.6	631.9	620.2	605.4	593.7	586.7	574.3
10°	673.1	652.9	630.3	605.4	585.9	563.4	548.6	531.5	512.8	495.7	483.2
12.5°	648.2	620.2	587.5	557.9	529.9	505.8	479.3	455.2	431.9	408.5	388.3
15°	628.0	592.9	551.7	514.4	480.1	444.3	414.8	381.3	351.7	331.5	305.8
17.5°	606.2	561.0	512.0	468.4	424.1	386.7	349.4	314.4	286.4	259.9	238.9
20°	579.7	525.2	472.3	421.8	371.2	328.4	290.2	256.8	229.6	208.5	193.0
22.5°	550.1	486.3	424.9	369.6	319.0	277.0	241.2	216.3	196.1	184.4	179.8
25°	521.4	448.2	379.0	318.3	267.7	231.9	207.8	186.8	176.6	172.0	172.0
27.5°	494.9	409.3	332.3	273.1	224.1	196.1	177.4	168.9	164.2	164.2	166.5
30°	470.0	370.4	287.9	228.0	189.1	168.1	158.0	154.9	155.6	158.7	161.9
32.5°	441.2	333.0	249.8	196.1	164.2	150.2	142.4	143.2	147.1	152.5	158.0
35°	410.9	293.4	216.3	172.0	147.1	136.2	131.5	132.3	137.7	144.7	150.2
37.5°	383.6	261.5	190.6	153.3	134.6	127.6	123.7	124.5	128.4	137.0	144.0
40°	356.4	234.2	169.6	142.4	127.6	120.6	118.3	117.5	120.6	128.4	137.0
42.5°	333.0	210.9	157.2	134.6	122.9	116.7	113.6	113.6	115.2	121.4	130.0
45°	319.0	196.9	148.6	129.2	119.1	113.6	110.5	108.9	111.3	115.2	122.9
47.5°	319.0	189.9	143.2	125.3	115.9	111.3	107.4	106.6	107.4	111.3	119.1
50°	329.9	191.4	142.4	123.7	114.4	108.2	104.3	104.3	105.8	111.3	117.5
52.5°	339.3	194.5	144.7	125.3	114.4	106.6	101.9	101.2	103.5	108.9	114.4
55°	337.7	194.5	147.1	127.6	116.7	107.4	101.2	100.4	101.9	107.4	112.8
57.5°	301.9	182.9	144.7	129.2	119.8	111.3	105.0	102.7	104.3	108.9	113.6
60°	244.3	162.6	138.5	129.2	124.5	118.3	112.1	110.5	111.3	115.9	121.4
62.5°	191.4	144.7	130.7	128.4	126.8	123.7	121.4	119.8	119.8	123.7	128.4
65°	155.6	130.7	124.5	125.3	126.8	126.1	125.3	124.5	124.5	126.8	131.5
67.5°	130.0	117.5	115.9	118.3	119.8	120.6	121.4	120.6	121.4	123.7	129.2
69°	118.3	110.5	108.9	110.5	113.6	114.4	115.9	115.2	115.9	118.3	123.7
70°	111.3	105.0	103.5	105.8	108.2	108.9	110.5	109.7	110.5	112.8	118.3
72.5°	96.5	89.5	87.2	88.7	91.0	91.0	93.4	94.2	92.6	93.4	97.3
75°	82.5	74.7	70.8	71.6	71.6	71.6	73.1	73.1	71.6	70.8	71.6
77.5°	69.3	60.7	56.0	56.0	56.0	55.2	52.9	53.7	54.5	53.7	54.5
80°	54.5	47.5	42.8	42.8	42.8	41.2	40.5	40.5	42.0	43.6	42.8
82.5°	42.0	35.0	32.7	31.9	31.9	30.3	30.3	31.9	31.1	31.9	33.5
85°	30.3	24.9	22.6	23.3	22.6	21.0	21.8	24.1	24.1	23.3	24.9
87.5°	18.7	15.6	14.8	15.6	14.0	11.7	10.9	11.7	13.2	12.5	14.0
90°	11.3	10.6	10.6	9.6	9.3	8.6	8.6	9.1	10.3	10.3	9.6
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°
803.0	803.0	803.0	803.0	803.0
747.0	749.4	739.2	743.9	740.8
665.3	661.4	660.6	658.3	653.6
569.6	566.5	557.2	560.3	553.3
470.8	470.0	452.9	453.7	445.1
379.7	365.7	358.7	348.6	354.1
294.1	282.5	267.7	263.8	269.2
221.8	210.1	203.1	196.9	194.5
183.6	176.6	172.7	170.4	168.9
177.4	175.9	175.1	173.5	172.7
173.5	175.1	175.1	175.1	173.5
169.6	172.7	173.5	172.7	171.2
165.7	168.1	168.1	167.3	165.0
160.3	162.6	162.6	161.9	160.3
154.1	155.6	156.4	156.4	157.2
149.4	151.0	152.5	154.1	156.4
144.0	146.3	147.1	150.2	153.3
137.0	140.1	141.6	144.0	147.1
130.0	133.8	134.6	137.7	140.8
126.8	130.0	130.0	132.3	134.6
122.9	124.5	123.7	125.3	126.1
119.1	120.6	119.8	121.4	122.2
115.9	117.5	119.1	120.6	121.4
117.5	119.8	120.6	122.9	123.7
124.5	127.6	130.7	133.8	136.2
131.5	135.4	142.4	156.4	161.9
135.4	140.8	157.2	181.3	188.3
133.1	140.1	159.5	185.2	193.8
128.4	133.8	154.9	181.3	189.1
122.2	127.6	148.6	177.4	184.4
98.8	101.9	125.3	152.5	157.2
72.4	74.7	92.6	103.5	102.7
56.0	59.1	65.4	66.1	65.4
44.4	45.9	49.0	49.0	49.8
34.2	35.0	36.6	35.0	34.2
25.7	24.9	24.1	23.3	22.6
14.8	14.8	12.5	10.9	10.1
9.1	9.3	8.3	6.6	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

'227104

IST-AF-1000-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)