

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: P271744

Luminaire Tested: **IST-AF-1200-LED-E1-SL4-7027-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271744
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-1200-LED-E1-SL4-7027-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 2700K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7059.1 lumens
Efficiency: N/A
Efficacy: 85.4 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

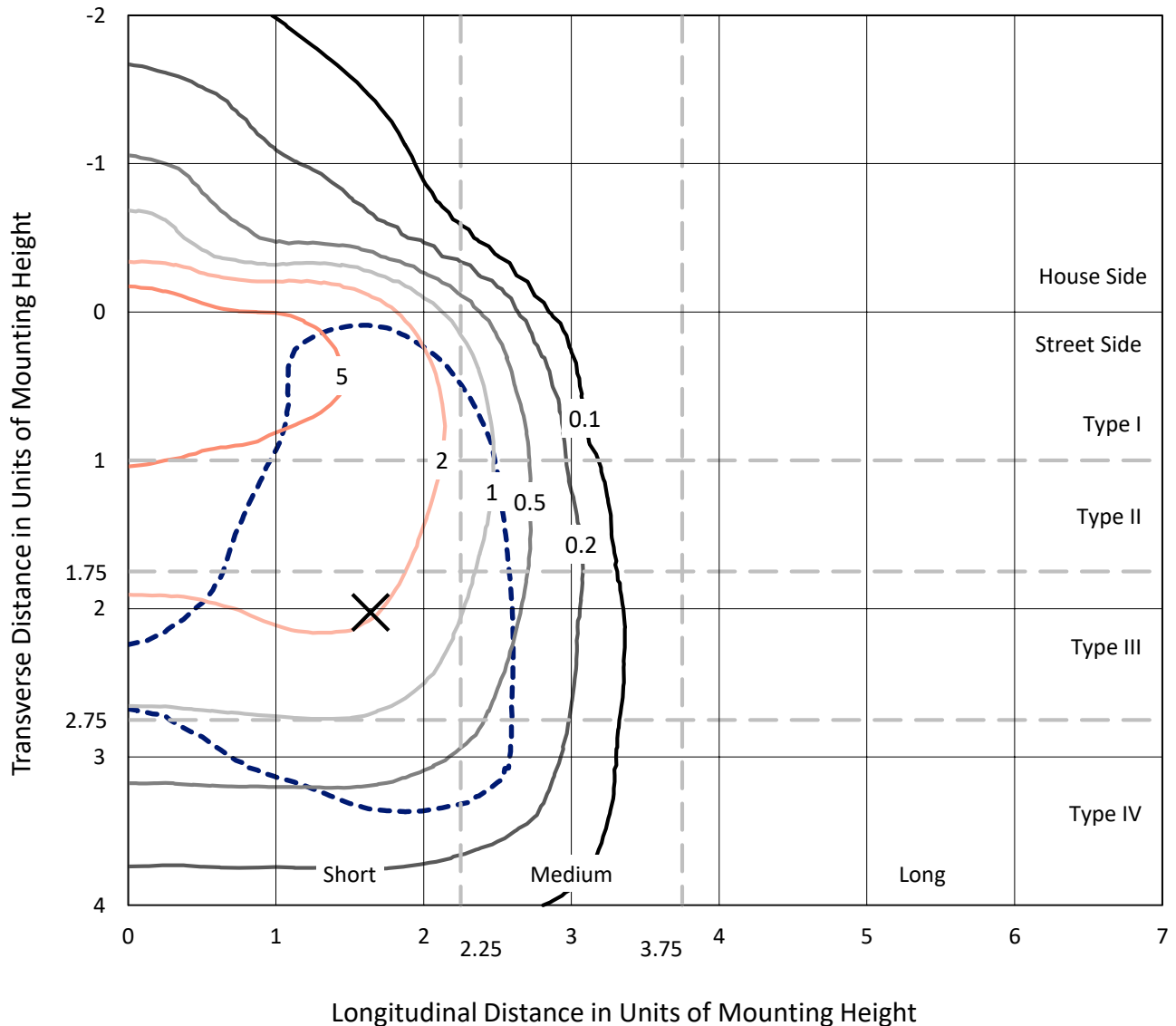
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

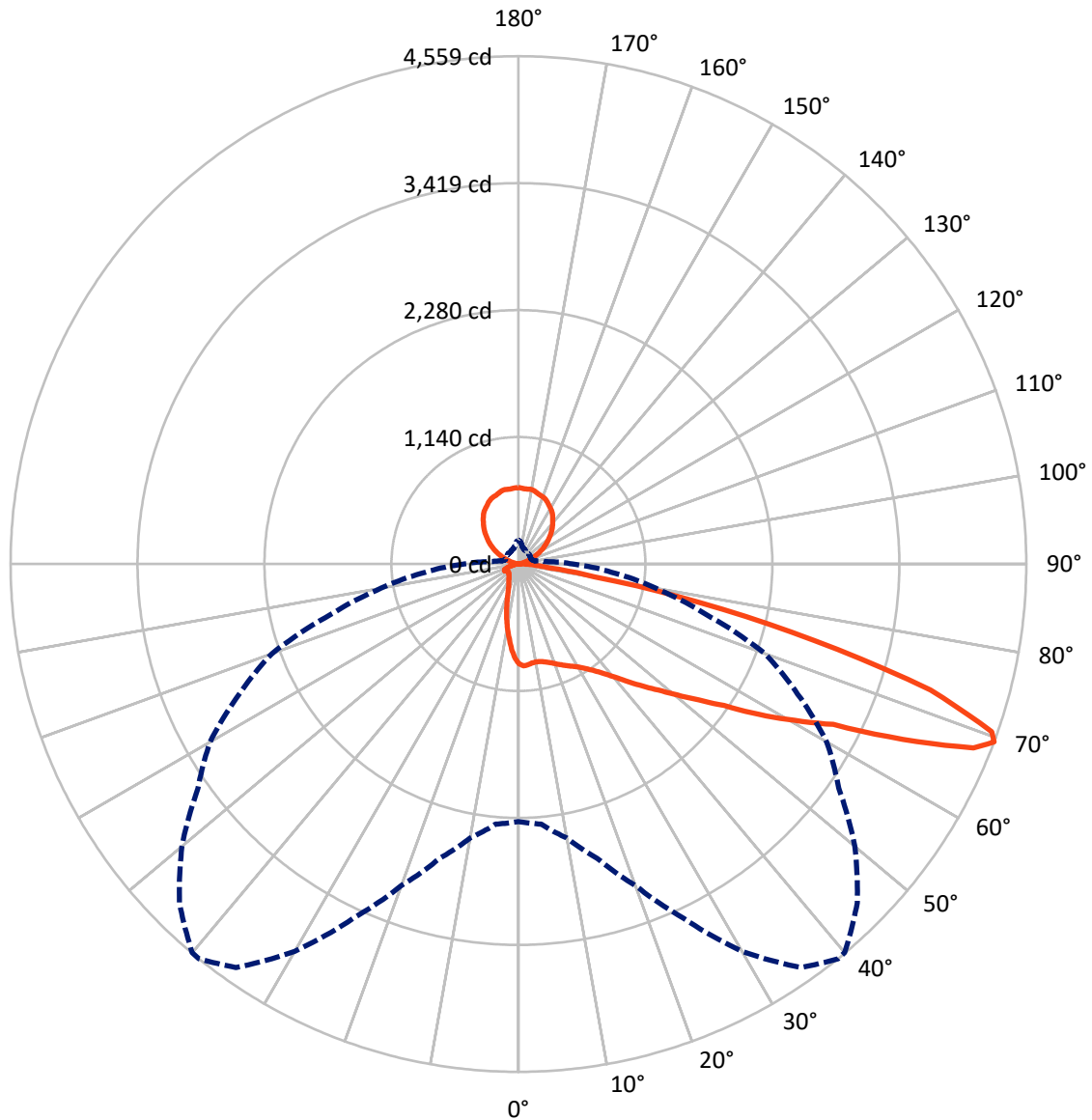


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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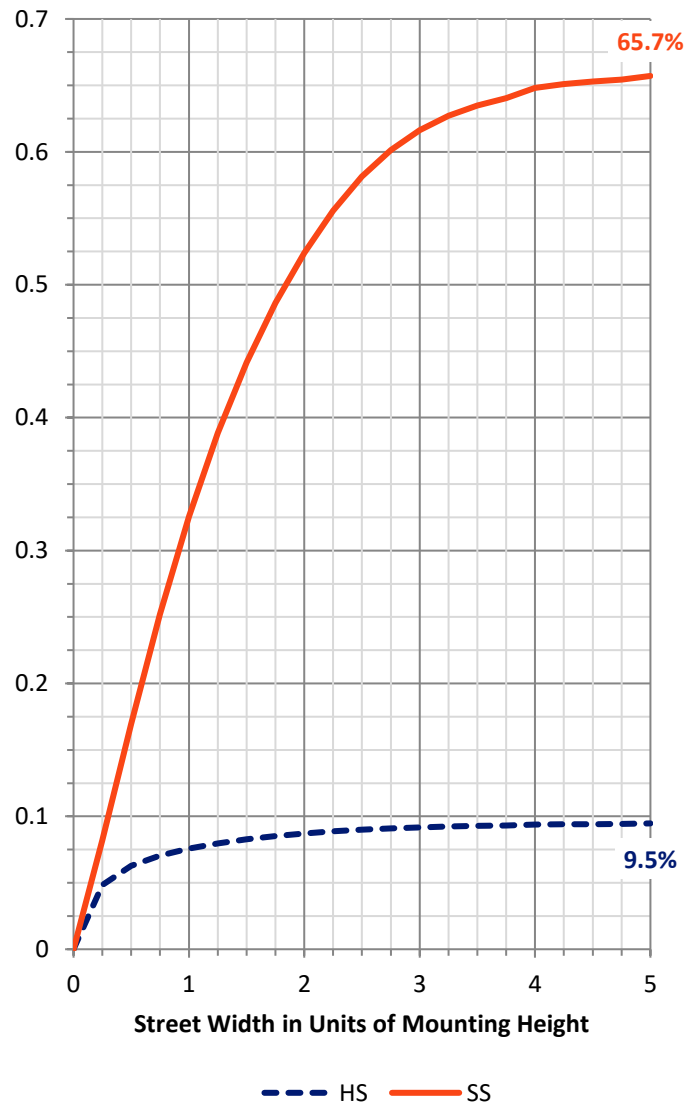
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	678.1	851.7	1529.7
	% Fixture	9.6	12.1	21.7
Street Side	Lumens	4676.5	852.8	5529.4
	% Fixture	66.2	12.1	78.3
Total	Lumens	5354.6	1704.5	7059.1
	% Fixture	75.9	24.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.1
10°-20°	195.2	2.8
20°-30°	303.9	4.3
30°-40°	459.2	6.5
40°-50°	734.9	10.4
50°-60°	1155.0	16.4
60°-70°	1555.2	22.0
70°-80°	771.4	10.9
80°-90°	102.3	1.4
90°-100°	10.6	0.1
100°-110°	56.3	0.8
110°-120°	163.0	2.3
120°-130°	268.1	3.8
130°-140°	330.6	4.7
140°-150°	338.2	4.8
150°-160°	284.9	4.0
160°-170°	187.6	2.7
170°-180°	65.0	0.9
0°-90°	5354.6	75.9
0°-180°	7059.1	100.0

Coefficient of Utilization



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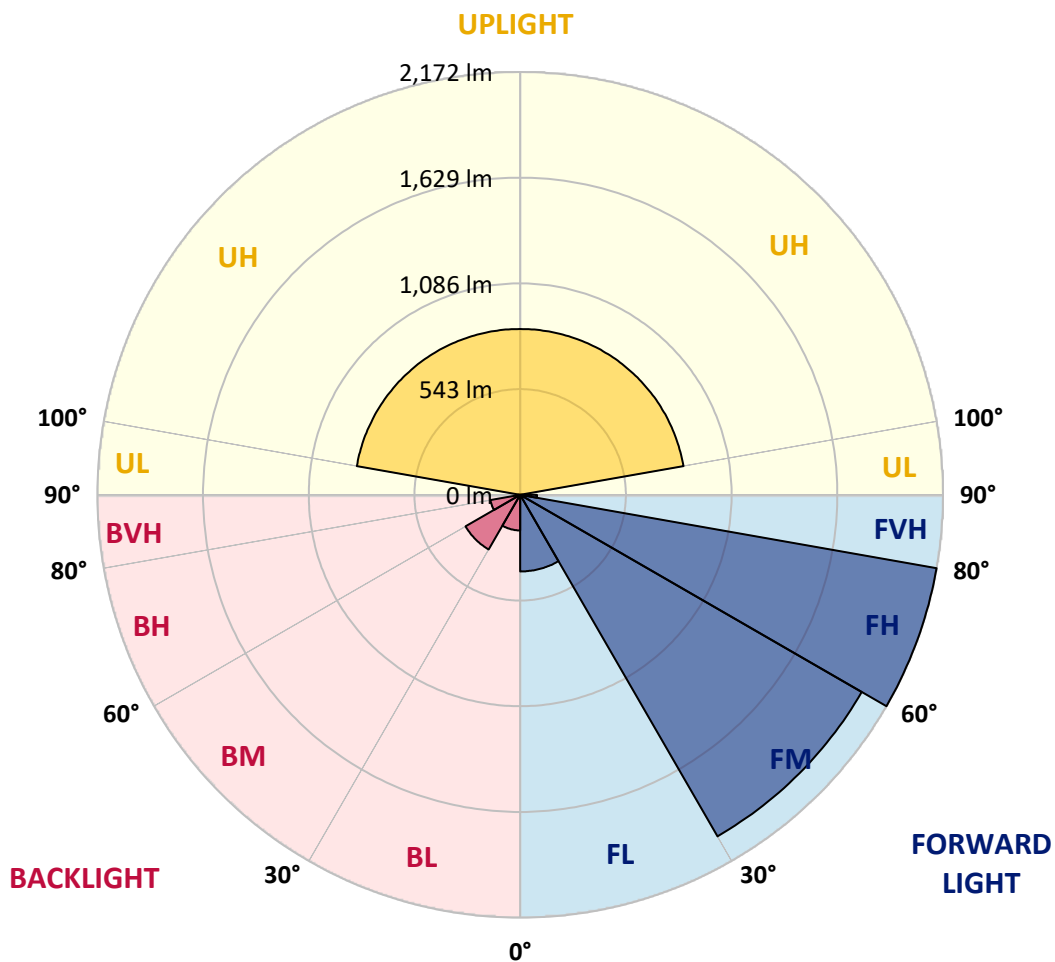
CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-7027-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.7	5.6			
FM	(30°-60°)	2025.4	28.7			
FH	(60°-80°)	2171.5	30.8			G2/5000
FVH	(80°-90°)	85.9	1.2			G1/100
BL	(0°-30°)	182.8	2.6	B1/500		
BM	(30°-60°)	323.7	4.6	B1/1000		
BH	(60°-80°)	155.1	2.2	B1/500		G1/500
BVH	(80°-90°)	16.5	0.2			G1/100
UL	(90°-100°)	10.6	0.1		U2/50	
UH	(100°-180°)	851.7	12.1		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°	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9
2.5°	918.7	919.5	919.5	920.4	916.9	916.9	917.8	914.4	916.0	915.1	910.8
5°	920.4	921.2	920.4	921.2	916.9	915.1	911.7	907.4	909.1	908.3	902.2
7.5°	916.0	916.9	915.1	916.0	910.8	907.4	902.2	898.7	896.1	895.3	887.3
10°	906.5	909.1	905.6	908.3	903.9	900.4	897.8	894.4	892.6	891.7	883.0
12.5°	892.6	894.4	895.3	898.7	898.7	899.6	899.6	896.9	897.8	896.9	890.0
15°	879.5	885.5	891.7	895.3	902.2	906.5	909.9	909.1	911.7	910.8	906.5
17.5°	879.5	884.8	895.3	906.5	919.5	925.6	930.8	930.8	931.7	929.9	923.0
20°	883.0	892.6	909.9	929.0	944.7	956.9	960.4	959.5	956.1	956.1	943.8
22.5°	911.7	917.8	936.9	957.8	979.5	991.7	992.5	989.9	982.9	981.2	966.5
25°	952.6	959.5	976.9	1003.9	1020.4	1029.9	1027.3	1018.6	1011.6	1005.6	989.9
27.5°	1016.1	1021.2	1038.6	1056.9	1066.4	1069.9	1059.4	1047.2	1039.5	1036.8	1016.1
30°	1081.2	1088.2	1102.0	1113.3	1121.2	1110.8	1094.2	1080.3	1073.4	1071.6	1052.5
32.5°	1161.1	1162.0	1171.6	1174.2	1175.1	1157.6	1135.1	1122.1	1119.4	1116.0	1101.1
35°	1234.1	1238.5	1236.8	1235.9	1228.1	1206.3	1187.2	1179.4	1176.8	1175.9	1163.8
37.5°	1299.3	1306.2	1301.9	1294.1	1284.6	1267.1	1247.2	1238.5	1247.2	1242.0	1244.6
40°	1362.8	1362.8	1357.6	1353.2	1341.9	1325.4	1318.4	1319.3	1333.3	1336.7	1340.2
42.5°	1417.5	1416.6	1411.5	1407.9	1406.3	1402.7	1399.3	1415.8	1442.8	1448.0	1455.7
45°	1477.5	1476.6	1456.6	1463.6	1475.7	1478.4	1490.6	1528.7	1561.8	1564.4	1580.8
47.5°	1535.7	1528.7	1509.6	1516.6	1551.4	1569.6	1589.6	1643.4	1689.5	1699.1	1745.1
50°	1596.6	1589.6	1568.7	1581.7	1630.4	1664.4	1711.3	1786.0	1849.5	1862.5	1922.6
52.5°	1660.0	1659.1	1642.6	1662.7	1722.6	1791.2	1865.2	1949.4	2026.8	2043.3	2131.9
55°	1736.5	1732.1	1725.1	1749.4	1834.7	1926.9	2042.5	2157.1	2241.5	2270.9	2360.6
57.5°	1822.5	1820.8	1821.7	1872.1	1974.7	2114.6	2256.3	2410.9	2550.0	2570.8	2654.3
60°	1897.3	1900.7	1920.8	1999.9	2128.4	2318.0	2516.9	2726.4	2849.9	2871.5	2953.3
62.5°	1988.6	2008.5	2052.9	2152.8	2304.1	2533.5	2791.7	3013.3	3172.3	3216.7	3371.2
65°	2207.6	2223.1	2305.8	2426.5	2619.5	2913.2	3209.6	3532.0	3794.5	3834.5	3967.5
67.5°	2367.4	2407.5	2536.9	2734.2	3013.3	3388.7	3795.4	4185.7	4407.3	4425.5	4332.5
69°	2311.9	2344.8	2497.8	2736.0	3072.3	3509.5	4015.3	4423.0	4559.3	4555.9	4303.0
70°	2226.7	2257.1	2425.7	2656.8	3022.8	3495.6	4018.7	4424.6	4507.2	4476.0	4186.6
72.5°	1865.2	1892.1	2050.2	2291.8	2646.5	3115.8	3608.5	3885.8	3868.4	3842.3	3364.3
75°	1164.7	1162.9	1301.0	1441.0	1716.5	2191.1	2557.8	2780.3	2744.6	2724.6	2159.7
77.5°	435.4	465.8	516.3	666.6	793.6	1049.8	1346.3	1594.0	1662.7	1574.8	1162.9
80°	226.8	243.4	276.4	329.4	378.9	433.7	521.5	670.9	694.4	647.5	469.4
82.5°	179.0	199.1	232.0	277.3	312.0	291.1	274.6	284.2	282.4	269.4	238.9
85°	135.6	159.0	213.0	259.0	308.6	260.8	207.7	181.6	161.7	162.5	172.9
87.5°	67.8	87.8	167.7	225.9	268.5	172.9	135.6	105.1	87.8	84.4	113.0
90°	25.8	25.8	39.7	51.2	68.2	38.3	37.4	30.5	24.0	23.9	33.0
92.5°	4.0	4.0	4.4	4.9	5.4	5.9	5.9	5.9	5.9	5.9	5.9
95°	4.9	4.9	5.4	5.9	6.4	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	6.8	6.8	7.4	7.8	7.8	7.8	8.4	8.8	8.8	8.8	8.8
100°	7.8	7.8	8.4	8.8	9.3	9.8	10.8	11.8	15.3	16.2	20.6
102.5°	10.8	10.8	11.8	12.8	15.2	17.7	22.1	26.5	31.6	32.9	39.3
105°	20.6	21.6	24.1	26.5	30.9	35.3	41.2	47.1	53.0	54.4	61.8
107.5°	40.2	41.2	44.6	48.1	52.6	57.0	64.3	71.7	77.5	79.1	86.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	64.8	66.7	69.7	72.7	79.1	85.4	92.7	100.1	104.8	106.0	111.9
112.5°	97.2	97.2	100.6	104.0	111.4	118.8	125.1	131.5	135.0	135.9	140.3
115°	137.4	136.5	140.3	144.3	150.2	156.0	160.4	164.9	167.3	167.8	170.8
117.5°	180.6	180.6	183.1	185.5	189.5	193.3	195.8	198.3	199.4	199.7	201.2
120°	220.8	218.8	220.4	221.8	225.3	228.7	230.7	232.6	235.0	235.5	238.5
122.5°	258.2	255.2	255.7	256.2	259.1	262.0	264.0	266.0	268.3	269.0	271.8
125°	292.5	288.5	289.5	290.5	291.9	293.5	296.4	299.3	301.3	301.8	304.3
127.5°	323.9	322.9	322.9	322.9	324.8	326.8	329.8	332.7	333.1	333.2	333.7
130°	356.3	354.3	354.8	355.3	357.3	359.2	361.2	363.2	363.9	364.2	365.1
132.5°	388.7	386.7	386.2	385.7	389.7	393.5	395.1	396.5	396.9	397.1	397.5
135°	421.0	418.1	418.1	418.1	421.0	424.0	425.4	427.0	427.8	428.0	428.9
137.5°	451.5	448.5	449.5	450.5	450.9	451.5	453.5	455.4	457.0	457.3	459.3
140°	479.0	476.0	477.0	478.0	479.0	480.0	481.0	481.9	484.3	484.8	487.8
142.5°	508.4	505.5	506.5	507.5	507.9	508.4	509.9	511.3	512.9	513.3	515.3
145°	539.8	535.9	534.9	534.0	535.4	536.8	538.4	539.8	540.2	540.3	540.8
147.5°	564.3	561.4	560.9	560.5	561.9	563.3	563.3	563.3	563.8	563.9	564.3
150°	584.0	581.0	581.6	582.0	582.0	582.0	582.0	582.0	582.0	582.0	582.0
152.5°	599.7	596.7	596.7	596.7	597.2	597.7	598.2	598.7	598.7	598.7	598.7
155°	617.3	613.5	613.5	613.5	614.4	615.4	616.9	618.3	617.6	617.3	616.3
157.5°	634.0	631.1	631.1	631.1	631.6	632.0	633.0	634.0	633.7	633.6	633.0
160°	650.7	647.8	647.3	646.8	645.3	643.8	643.4	642.8	642.8	642.8	642.8
162.5°	660.5	656.6	656.6	656.6	654.7	652.7	650.7	648.8	649.6	649.7	650.7
165°	668.4	665.5	664.5	663.5	663.5	663.5	662.1	660.5	660.5	660.5	660.5
167.5°	677.2	674.3	672.8	671.3	672.3	673.3	674.3	675.3	674.1	673.8	672.3
170°	685.0	682.2	680.6	679.2	679.2	679.2	679.7	680.2	679.4	679.2	678.2
172.5°	686.0	684.1	683.1	682.2	681.2	680.2	678.7	677.2	677.2	677.2	677.2
175°	687.0	685.0	684.6	684.1	683.1	682.2	680.2	678.2	677.8	677.7	677.2
177.5°	693.9	692.0	689.4	687.0	686.6	686.0	685.0	684.1	683.3	683.1	682.2
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9
2.5°	907.4	907.4	905.6	904.8	902.2	898.7	896.1	891.7	889.1	884.8	879.5
5°	896.1	892.6	890.8	887.3	882.1	877.8	872.6	866.5	859.6	850.9	841.4
7.5°	881.2	876.0	870.0	868.2	862.1	856.9	850.9	842.3	832.5	817.0	804.8
10°	875.2	870.0	864.8	861.3	853.5	847.4	840.5	829.1	817.0	796.1	773.5
12.5°	881.2	876.0	870.9	864.8	857.8	850.9	841.4	827.4	810.9	784.0	756.1
15°	896.1	890.8	882.1	876.0	866.5	860.5	847.4	831.7	807.4	774.4	737.9
17.5°	912.6	904.8	896.9	887.3	878.7	870.9	856.9	837.0	806.6	767.4	720.5
20°	928.2	919.5	907.4	900.4	891.7	880.4	865.7	841.4	804.8	753.5	702.3
22.5°	946.5	935.1	922.1	914.4	907.4	897.8	880.4	849.1	804.8	745.8	681.4
25°	969.9	955.2	942.1	934.2	929.9	923.0	902.2	867.3	810.9	741.3	663.9
27.5°	997.7	978.6	967.4	962.2	961.3	956.1	935.1	891.7	824.8	741.3	647.5
30°	1030.7	1014.3	999.5	999.5	1010.0	1006.4	982.9	929.0	846.6	744.0	635.3
32.5°	1076.8	1060.3	1051.6	1060.3	1071.6	1075.1	1048.1	982.0	882.1	756.1	623.2
35°	1144.6	1134.2	1128.1	1141.2	1163.8	1172.5	1139.4	1061.2	934.2	779.5	616.1
37.5°	1234.1	1226.4	1218.6	1241.1	1283.7	1301.0	1253.2	1152.4	1009.1	818.7	612.7
40°	1336.7	1337.6	1346.3	1391.5	1432.3	1468.8	1414.9	1290.7	1111.7	874.3	616.1
42.5°	1458.4	1467.9	1497.5	1560.1	1639.1	1667.8	1615.7	1457.5	1239.3	941.2	625.0
45°	1609.7	1634.7	1685.2	1778.3	1873.9	1918.2	1844.3	1667.8	1400.2	1048.1	649.3
47.5°	1770.4	1826.1	1911.1	2024.2	2135.5	2164.1	2072.7	1858.1	1557.4	1142.8	686.7
50°	1976.5	2044.1	2129.3	2264.9	2383.1	2400.5	2279.7	2034.6	1694.7	1225.5	722.2
52.5°	2168.5	2260.6	2369.2	2526.6	2646.5	2624.7	2468.4	2192.0	1803.3	1281.9	742.2
55°	2430.9	2526.6	2649.0	2786.5	2905.5	2853.3	2639.5	2325.7	1890.3	1323.7	748.3
57.5°	2730.8	2803.8	2923.7	3064.5	3142.7	3053.2	2808.1	2456.1	1972.9	1324.6	700.5
60°	3025.4	3110.5	3242.6	3380.8	3424.2	3269.7	2925.4	2476.1	1891.2	1182.0	560.6
62.5°	3461.7	3547.8	3614.6	3637.2	3559.1	3247.9	2789.0	2264.9	1630.4	932.6	397.2
65°	3949.3	3851.9	3722.4	3600.8	3387.8	2915.0	2404.9	1860.7	1265.4	623.2	273.7
67.5°	4077.0	3780.7	3499.1	3227.9	2830.6	2321.4	1813.9	1308.9	811.8	354.7	185.9
69°	3944.1	3511.3	3197.4	2767.3	2357.1	1737.3	1249.8	838.7	484.9	246.9	155.6
70°	3700.7	3250.4	2825.5	2364.9	1826.1	1327.2	830.8	549.2	316.3	179.9	140.0
72.5°	2792.5	2232.7	1720.8	1117.7	681.4	378.1	266.0	190.4	150.4	132.1	119.9
75°	1614.8	1075.1	704.0	375.4	222.5	165.1	144.3	128.6	119.0	114.7	104.3
77.5°	681.4	425.9	288.5	211.2	149.5	127.8	111.2	102.6	101.7	99.0	89.5
80°	310.3	266.0	226.8	159.0	113.8	97.4	85.2	83.5	85.2	82.6	73.0
82.5°	230.3	226.8	189.5	122.6	87.0	65.1	53.0	55.7	62.6	67.8	59.1
85°	192.1	192.1	159.0	91.3	57.3	41.7	40.9	46.0	52.1	56.5	47.8
87.5°	176.4	169.5	91.3	46.9	33.0	26.9	25.2	22.5	22.5	39.1	33.0
90°	24.3	14.7	12.1	12.3	13.1	12.3	13.0	11.2	11.2	11.2	12.1
92.5°	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9	5.9
95°	6.8	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	10.3	11.8	10.8	9.8	9.3	8.8	8.4	7.8	7.8	7.8	8.4
100°	24.5	28.5	26.9	25.5	24.1	22.5	20.6	18.7	18.7	18.7	20.6
102.5°	44.2	49.0	47.6	46.2	43.7	41.2	39.7	38.3	37.3	38.3	39.7
105°	66.3	70.7	69.7	68.7	66.3	63.8	61.8	59.8	59.8	59.8	61.8
107.5°	89.8	93.2	92.7	92.3	90.3	88.3	86.9	85.4	84.4	85.4	86.9



REPORT NUMBER: P271744

CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-7027-ULG

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	114.8	117.8	118.3	118.8	117.8	116.8	115.3	113.8	114.8	113.8	115.3
112.5°	142.8	145.3	146.2	147.2	146.7	146.2	145.3	144.3	144.3	144.3	145.3
115°	173.2	175.7	177.1	178.7	177.1	175.7	174.7	173.7	174.7	173.7	174.7
117.5°	204.2	207.1	209.0	211.0	208.6	206.1	205.2	204.2	205.2	204.2	205.2
120°	239.9	241.5	243.4	245.3	242.9	240.5	239.5	238.5	238.5	238.5	239.5
122.5°	272.8	273.8	275.8	277.8	275.3	272.8	271.8	270.9	271.8	270.9	271.8
125°	305.7	307.2	308.2	309.2	306.7	304.3	304.3	304.3	304.3	304.3	304.3
127.5°	336.1	338.6	339.1	339.6	339.6	339.6	339.1	338.6	340.5	338.6	339.1
130°	367.6	370.0	372.0	374.0	374.0	374.0	373.0	372.0	373.0	372.0	373.0
132.5°	400.5	403.4	405.9	408.3	407.3	406.3	406.3	406.3	407.3	406.3	406.3
135°	431.8	434.8	437.3	439.7	439.2	438.7	440.2	441.7	442.7	441.7	440.2
137.5°	461.8	464.2	465.2	466.2	466.7	467.2	469.6	472.1	473.0	472.1	469.6
140°	489.3	490.7	491.7	492.7	493.7	494.7	497.1	499.5	501.5	499.5	497.1
142.5°	516.3	517.2	520.2	523.2	523.2	523.2	523.6	524.1	526.0	524.1	523.6
145°	543.3	545.7	548.7	551.6	551.1	550.6	549.1	547.7	549.7	547.7	549.1
147.5°	566.8	569.3	571.7	574.2	574.6	575.2	573.7	572.2	574.2	572.2	573.7
150°	584.0	586.0	587.4	588.9	590.4	591.8	593.3	594.8	598.7	594.8	593.3
152.5°	599.2	599.7	601.1	602.7	604.6	606.5	609.1	611.5	616.3	611.5	609.1
155°	615.4	614.4	616.9	619.3	621.8	624.2	625.2	626.2	629.2	626.2	625.2
157.5°	632.6	632.0	634.0	636.0	637.0	638.0	638.0	638.0	642.8	638.0	638.0
160°	644.4	645.8	648.8	651.7	650.2	648.8	648.3	647.8	653.7	647.8	648.3
162.5°	652.7	654.7	656.6	658.5	658.1	657.6	656.6	655.7	661.5	655.7	656.6
165°	660.1	659.5	662.1	664.5	665.9	667.4	666.5	665.5	669.3	665.5	666.5
167.5°	668.9	665.5	668.4	671.3	673.3	675.3	675.3	675.3	681.2	675.3	675.3
170°	675.7	673.3	674.8	676.2	678.7	681.2	682.2	683.1	688.0	683.1	682.2
172.5°	676.7	676.2	677.7	679.2	680.2	681.2	682.2	683.1	688.0	683.1	682.2
175°	677.2	677.2	679.7	682.2	682.6	683.1	682.2	681.2	686.0	681.2	682.2
177.5°	681.6	681.2	683.6	686.0	687.0	688.0	686.6	685.0	689.0	685.0	686.6
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0



REPORT NUMBER: P271744

CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-7027-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9	896.9
2.5°	875.2	871.7	863.0	861.3	858.7	855.2	854.4	850.0	841.4	839.6	840.5
5°	835.2	821.3	811.8	803.9	797.9	782.2	776.1	769.2	757.0	753.5	748.3
7.5°	788.4	771.7	752.7	738.8	722.2	705.7	692.8	676.2	663.1	655.3	641.4
10°	751.8	729.2	704.0	676.2	654.4	629.3	612.7	593.6	572.8	553.6	539.7
12.5°	723.9	692.8	656.2	623.2	591.8	564.9	535.4	508.4	482.4	456.2	433.7
15°	701.4	662.3	616.1	574.5	536.3	496.2	463.3	425.9	392.9	370.2	341.5
17.5°	677.1	626.7	572.0	523.3	473.7	431.9	390.2	351.1	319.9	290.3	266.9
20°	647.5	586.6	527.6	471.0	414.6	366.8	324.2	286.8	256.4	232.9	215.5
22.5°	614.5	543.1	474.6	412.8	356.4	309.4	269.4	241.6	219.0	206.0	200.8
25°	582.3	500.6	423.2	355.5	299.0	259.0	232.0	208.6	197.3	192.1	192.1
27.5°	552.7	457.1	371.1	305.1	250.3	219.0	198.2	188.6	183.3	183.3	185.9
30°	524.9	413.7	321.5	254.7	211.2	187.7	176.4	172.9	173.8	177.2	180.8
32.5°	492.8	372.0	278.9	219.0	183.3	167.7	159.0	159.9	164.3	170.4	176.4
35°	458.9	327.6	241.6	192.1	164.3	152.2	147.0	147.7	153.8	161.7	167.7
37.5°	428.5	291.9	213.0	171.1	150.4	142.5	138.2	139.1	143.4	153.0	160.8
40°	398.1	261.6	189.5	159.0	142.5	134.7	132.1	131.2	134.7	143.4	153.0
42.5°	372.0	235.5	175.6	150.4	137.4	130.3	126.9	126.9	128.6	135.6	145.2
45°	356.4	219.8	166.0	144.3	132.9	126.9	123.3	121.7	124.2	128.6	137.4
47.5°	356.4	212.1	159.9	140.0	129.4	124.2	119.9	119.0	119.9	124.2	132.9
50°	368.6	213.8	159.0	138.2	127.8	120.8	116.5	116.5	118.1	124.2	131.2
52.5°	378.9	217.3	161.7	140.0	127.8	119.0	113.8	113.0	115.6	121.7	127.8
55°	377.2	217.3	164.3	142.5	130.3	119.9	113.0	112.1	113.8	119.9	126.0
57.5°	337.2	204.3	161.7	144.3	133.8	124.2	117.3	114.7	116.5	121.7	126.9
60°	272.9	181.6	154.7	144.3	139.1	132.1	125.1	123.3	124.2	129.4	135.6
62.5°	213.8	161.7	146.1	143.4	141.7	138.2	135.6	133.8	133.8	138.2	143.4
65°	173.8	146.1	139.1	140.0	141.7	140.9	140.0	139.1	139.1	141.7	147.0
67.5°	145.2	131.2	129.4	132.1	133.8	134.7	135.6	134.7	135.6	138.2	144.3
69°	132.1	123.3	121.7	123.3	126.9	127.8	129.4	128.6	129.4	132.1	138.2
70°	124.2	117.3	115.6	118.1	120.8	121.7	123.3	122.6	123.3	126.0	132.1
72.5°	107.8	99.9	97.4	99.0	101.7	101.7	104.3	105.1	103.5	104.3	108.7
75°	92.2	83.5	79.1	79.9	79.9	79.9	81.7	81.7	79.9	79.1	79.9
77.5°	77.3	67.8	62.6	62.6	62.6	61.7	59.1	60.0	60.8	60.0	60.8
80°	60.8	53.0	47.8	47.8	47.8	46.0	45.2	45.2	46.9	48.7	47.8
82.5°	46.9	39.1	36.5	35.7	35.7	33.9	33.9	35.7	34.8	35.7	37.4
85°	33.9	27.8	25.2	26.1	25.2	23.4	24.3	26.9	26.9	26.1	27.8
87.5°	20.9	17.3	16.5	17.3	15.6	13.0	12.1	13.0	14.8	13.9	15.6
90°	11.5	10.6	10.6	9.6	9.5	8.6	8.6	9.2	10.5	10.5	9.6
92.5°	5.9	6.4	6.8	6.8	6.8	6.4	5.9	5.9	5.9	5.9	5.9
95°	6.8	7.4	7.8	7.4	6.8	6.8	6.8	6.8	6.8	6.8	6.8
97.5°	8.8	9.3	9.8	10.8	11.8	10.3	8.8	8.8	8.8	8.4	7.8
100°	22.5	24.1	25.5	26.9	28.5	24.5	20.6	16.2	11.8	10.8	9.8
102.5°	41.2	43.7	46.2	47.6	49.0	44.2	39.3	32.9	26.5	22.1	17.7
105°	63.8	66.3	68.7	69.7	70.7	66.3	61.8	54.4	47.1	41.2	35.3
107.5°	88.3	90.3	92.3	92.7	93.2	89.8	86.3	79.1	71.7	64.3	57.0



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 CATALOG NUMBER: IST-AF-1200-LED-E1-SL4-7027-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	116.8	117.8	118.8	118.3	117.8	114.8	111.9	106.0	100.1	92.7	85.4	0°
112.5°	146.2	146.7	147.2	146.2	145.3	142.8	140.3	135.9	131.5	125.1	118.8	2.5°
115°	175.7	177.1	178.7	177.1	175.7	173.2	170.8	167.8	164.9	160.4	156.0	5°
117.5°	206.1	208.6	211.0	209.0	207.1	204.2	201.2	199.7	198.3	195.8	193.3	7.5°
120°	240.5	242.9	245.3	243.4	241.5	239.9	238.5	235.5	232.6	230.7	228.7	10°
122.5°	272.8	275.3	277.8	275.8	273.8	272.8	271.8	269.0	266.0	264.0	262.0	12.5°
125°	304.3	306.7	309.2	308.2	307.2	305.7	304.3	301.8	299.3	296.4	293.5	15°
127.5°	339.6	339.6	339.6	339.1	338.6	336.1	333.7	333.2	332.7	329.8	326.8	17.5°
130°	374.0	374.0	374.0	372.0	370.0	367.6	365.1	364.2	363.2	361.2	359.2	20°
132.5°	406.3	407.3	408.3	405.9	403.4	400.5	397.5	397.1	396.5	395.1	393.5	22.5°
135°	438.7	439.2	439.7	437.3	434.8	431.8	428.9	428.0	427.0	425.4	424.0	25°
137.5°	467.2	466.7	466.2	465.2	464.2	461.8	459.3	457.3	455.4	453.5	451.5	27.5°
140°	494.7	493.7	492.7	491.7	490.7	489.3	487.8	484.8	481.9	481.0	480.0	30°
142.5°	523.2	523.2	523.2	520.2	517.2	516.3	515.3	513.3	511.3	509.9	508.4	32.5°
145°	550.6	551.1	551.6	548.7	545.7	543.3	540.8	540.3	539.8	538.4	536.8	35°
147.5°	575.2	574.6	574.2	571.7	569.3	566.8	564.3	563.9	563.3	563.3	563.3	37.5°
150°	591.8	590.4	588.9	587.4	586.0	584.0	582.0	582.0	582.0	582.0	582.0	40°
152.5°	606.5	604.6	602.7	601.1	599.7	599.2	598.7	598.7	598.7	598.2	597.7	42.5°
155°	624.2	621.8	619.3	616.9	614.4	615.4	616.3	617.3	618.3	616.9	615.4	45°
157.5°	638.0	637.0	636.0	634.0	632.0	632.6	633.0	633.6	634.0	633.0	632.0	47.5°
160°	648.8	650.2	651.7	648.8	645.8	644.4	642.8	642.8	642.8	643.4	643.8	50°
162.5°	657.6	658.1	658.5	656.6	654.7	652.7	650.7	649.7	648.8	650.7	652.7	52.5°
165°	667.4	665.9	664.5	662.1	659.5	660.1	660.5	660.5	660.5	662.1	663.5	55°
167.5°	675.3	673.3	671.3	668.4	665.5	668.9	672.3	673.8	675.3	674.3	673.3	57.5°
170°	681.2	678.7	676.2	674.8	673.3	675.7	678.2	679.2	680.2	679.7	679.2	60°
172.5°	681.2	680.2	679.2	677.7	676.2	676.7	677.2	677.2	677.2	678.7	680.2	62.5°
175°	683.1	682.6	682.2	679.7	677.2	677.2	677.2	677.7	678.2	680.2	682.2	65°
177.5°	688.0	687.0	686.0	683.6	681.2	681.6	682.2	683.1	684.1	685.0	686.0	67.5°
180°	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	687.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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 NUMBER: IST-AF-1200-LED-E1-SL4-7027-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
896.9	896.9	896.9	896.9	896.9
834.3	837.0	825.6	830.8	827.4
743.1	738.8	737.9	735.3	730.1
636.2	632.8	622.3	625.8	617.9
525.8	524.9	505.8	506.7	497.1
424.1	408.5	400.6	389.3	395.4
328.5	315.5	299.0	294.6	300.8
247.8	234.6	226.8	219.8	217.3
205.2	197.3	193.0	190.4	188.6
198.2	196.4	195.5	193.9	193.0
193.9	195.5	195.5	195.5	193.9
189.5	193.0	193.9	193.0	191.2
185.1	187.7	187.7	186.8	184.2
179.0	181.6	181.6	180.8	179.0
172.0	173.8	174.7	174.7	175.6
166.8	168.6	170.4	172.0	174.7
160.8	163.4	164.3	167.7	171.1
153.0	156.5	158.2	160.8	164.3
145.2	149.5	150.4	153.8	157.3
141.7	145.2	145.2	147.7	150.4
137.4	139.1	138.2	140.0	140.9
132.9	134.7	133.8	135.6	136.5
129.4	131.2	132.9	134.7	135.6
131.2	133.8	134.7	137.4	138.2
139.1	142.5	146.1	149.5	152.2
147.0	151.3	159.0	174.7	180.8
151.3	157.3	175.6	202.5	210.3
148.6	156.5	178.1	206.9	216.4
143.4	149.5	172.9	202.5	211.2
136.5	142.5	166.0	198.2	206.0
110.4	113.8	140.0	170.4	175.6
80.8	83.5	103.5	115.6	114.7
62.6	66.0	73.0	73.9	73.0
49.6	51.2	54.8	54.8	55.7
38.3	39.1	40.9	39.1	38.3
28.7	27.8	26.9	26.1	25.2
16.5	16.5	13.9	12.1	11.3
9.2	9.5	8.5	6.6	4.9
5.4	4.9	4.4	4.0	4.0
6.4	5.9	5.4	4.9	4.9
7.8	7.8	7.4	6.8	6.8
9.3	8.8	8.4	7.8	7.8
15.2	12.8	11.8	10.8	10.8
30.9	26.5	24.1	21.6	20.6
52.6	48.1	44.6	41.2	40.2

CANDELA DISTRIBUTION:

	160°
110°	79.1
112.5°	111.4
115°	150.2
117.5°	189.5
120°	225.3
122.5°	259.1
125°	291.9
127.5°	324.8
130°	357.3
132.5°	389.7
135°	421.0
137.5°	450.9
140°	479.0
142.5°	507.9
145°	535.4
147.5°	561.9
150°	582.0
152.5°	597.2
155°	614.4
157.5°	631.6
160°	645.3
162.5°	654.7
165°	663.5
167.5°	672.3
170°	679.2
172.5°	681.2
175°	683.1
177.5°	686.6
180°	687.0



'271744

IST-AF-1200-LED-E1-SL4-7027-ULG

TION (continued):

165°	170°	175°	180°
72.7	69.7	66.7	64.8
104.0	100.6	97.2	97.2
144.3	140.3	136.5	137.4
185.5	183.1	180.6	180.6
221.8	220.4	218.8	220.8
256.2	255.7	255.2	258.2
290.5	289.5	288.5	292.5
322.9	322.9	322.9	323.9
355.3	354.8	354.3	356.3
385.7	386.2	386.7	388.7
418.1	418.1	418.1	421.0
450.5	449.5	448.5	451.5
478.0	477.0	476.0	479.0
507.5	506.5	505.5	508.4
534.0	534.9	535.9	539.8
560.5	560.9	561.4	564.3
582.0	581.6	581.0	584.0
596.7	596.7	596.7	599.7
613.5	613.5	613.5	617.3
631.1	631.1	631.1	634.0
646.8	647.3	647.8	650.7
656.6	656.6	656.6	660.5
663.5	664.5	665.5	668.4
671.3	672.8	674.3	677.2
679.2	680.6	682.2	685.0
682.2	683.1	684.1	686.0
684.1	684.6	685.0	687.0
687.0	689.4	692.0	693.9
687.0	687.0	687.0	687.0

(END OF REPORT)