

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: P227075

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227075
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-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) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6463.5 lumens
Efficiency: N/A
Efficacy: 107.4 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

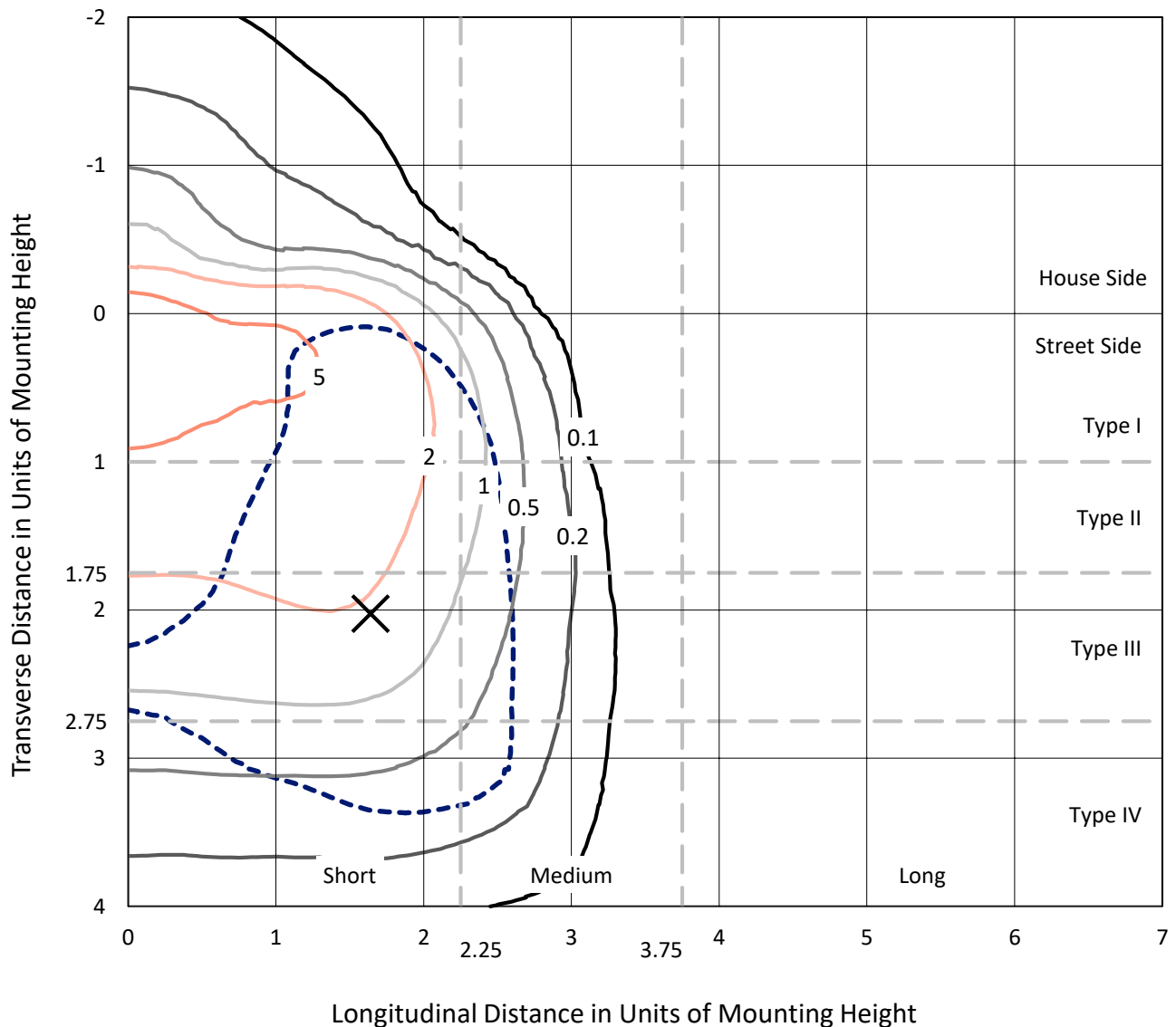
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

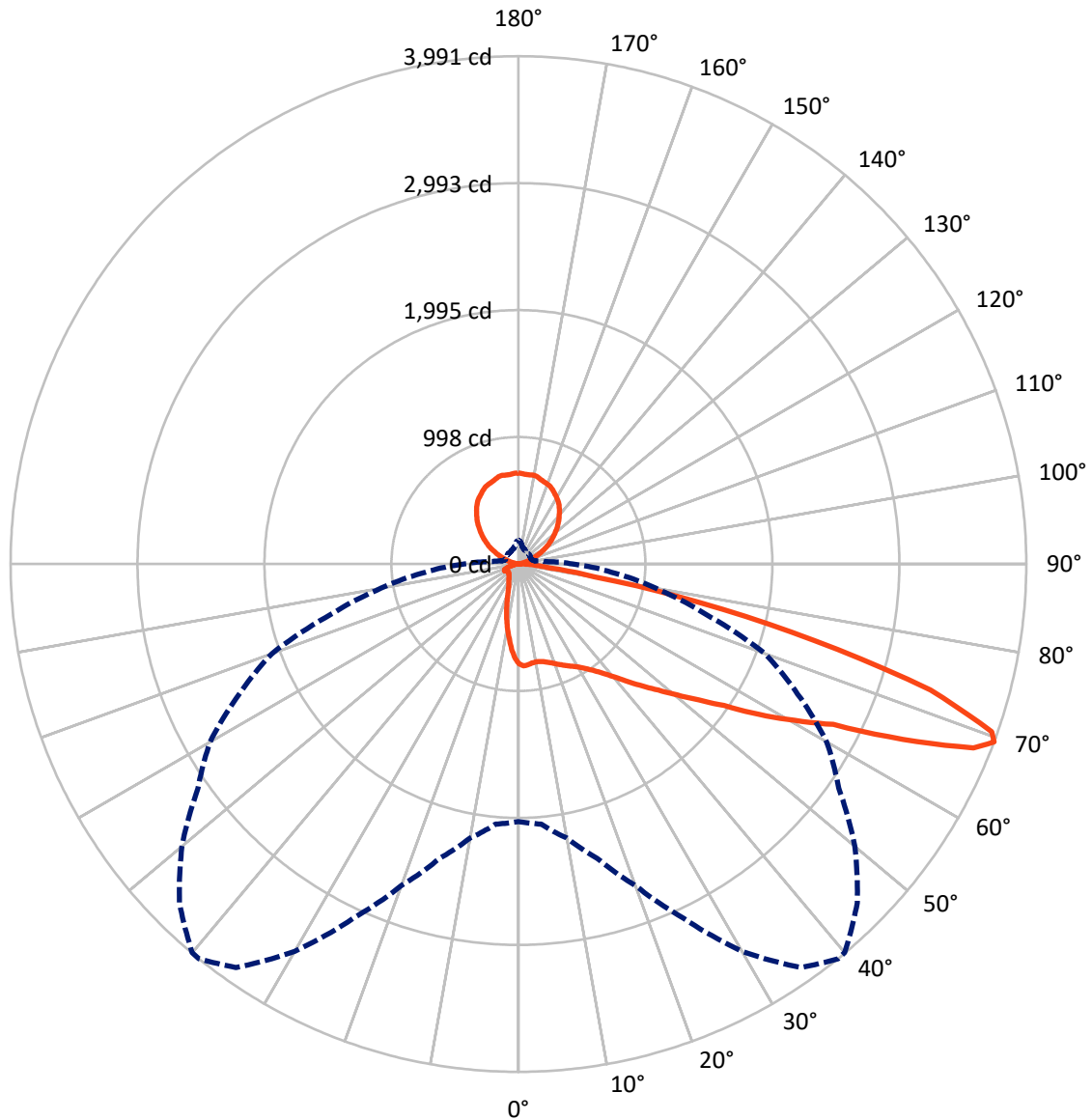
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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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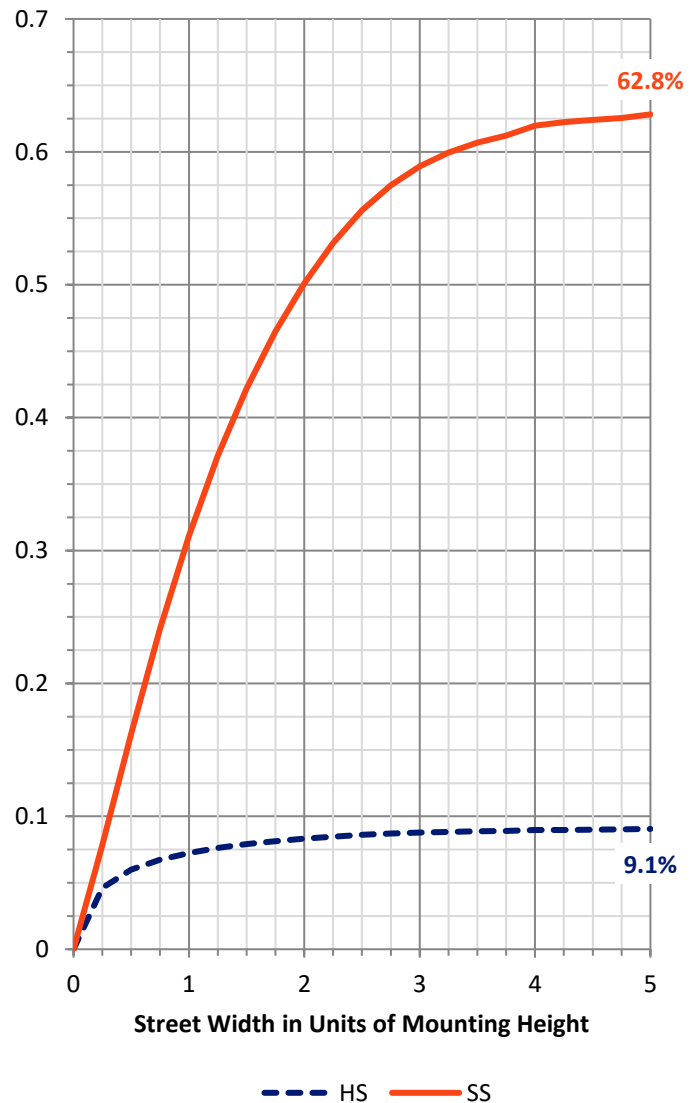
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.6	887.6	1481.2
	% Fixture	9.2	13.7	22.9
Street Side	Lumens	4093.6	888.6	4982.3
	% Fixture	63.3	13.7	77.1
Total	Lumens	4687.2	1776.2	6463.5
	% Fixture	72.5	27.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.0
10°-20°	170.9	2.6
20°-30°	266.0	4.1
30°-40°	402.0	6.2
40°-50°	643.3	10.0
50°-60°	1011.0	15.6
60°-70°	1361.3	21.1
70°-80°	675.3	10.4
80°-90°	89.8	1.4
90°-100°	10.8	0.2
100°-110°	58.7	0.9
110°-120°	169.9	2.6
120°-130°	279.4	4.3
130°-140°	344.6	5.3
140°-150°	352.5	5.5
150°-160°	297.0	4.6
160°-170°	195.5	3.0
170°-180°	67.8	1.0
0°-90°	4687.2	72.5
0°-180°	6463.5	100.0



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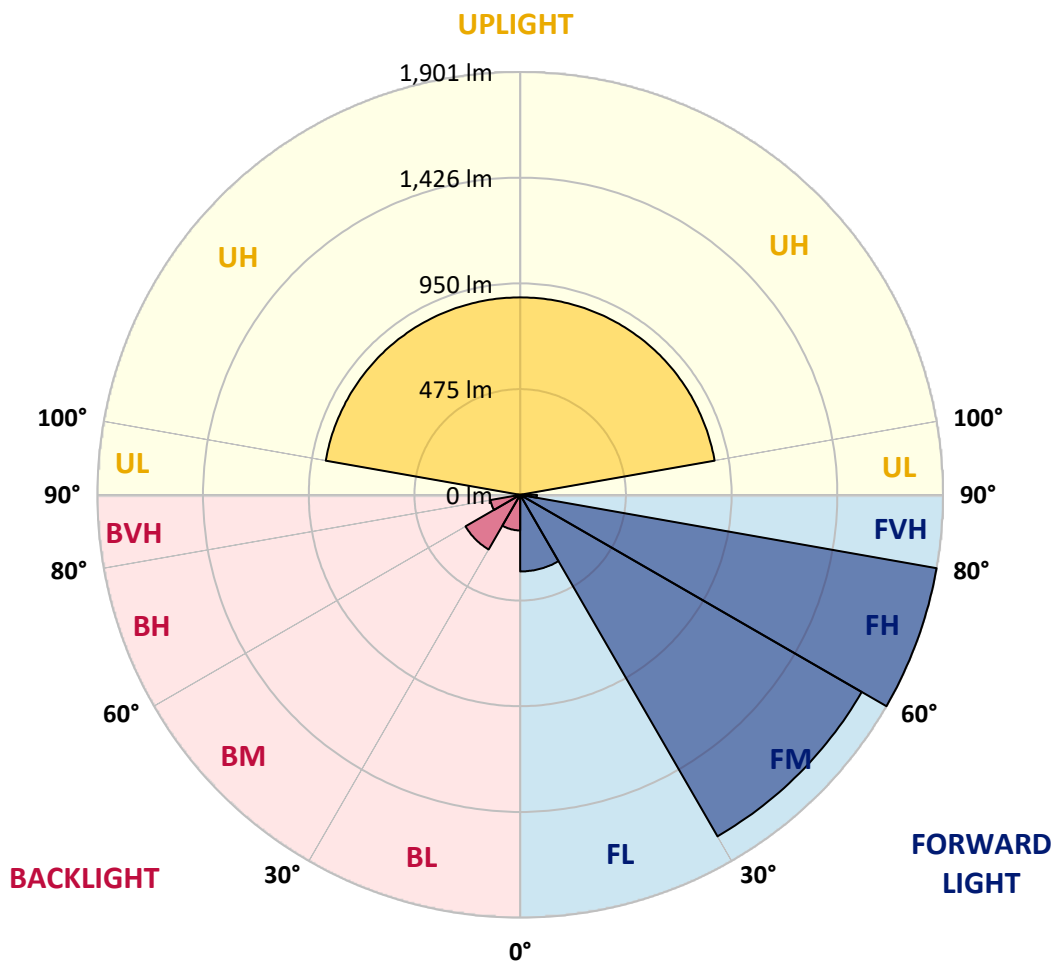
CATALOG NUMBER: IST-AF-800-LED-E1-SL4-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.6	5.3			
FM	(30°-60°)	1772.9	27.4			
FH	(60°-80°)	1900.8	29.4			G2/5000
FVH	(80°-90°)	75.2	1.2			G1/100
BL	(0°-30°)	160.0	2.5	B1/500		
BM	(30°-60°)	283.3	4.4	B1/1000		
BH	(60°-80°)	135.8	2.1	B1/500		G1/500
BVH	(80°-90°)	14.5	0.2			G1/100
UL	(90°-100°)	10.8	0.2		U2/50	
UH	(100°-180°)	887.6	13.7		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°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1
2.5°	804.1	804.9	804.9	805.7	802.6	802.6	803.3	800.4	801.9	801.1	797.3
5°	805.7	806.4	805.7	806.4	802.6	801.1	798.0	794.2	795.8	795.0	789.7
7.5°	801.9	802.6	801.1	801.9	797.3	794.2	789.7	786.6	784.4	783.6	776.7
10°	793.5	795.8	792.7	795.0	791.2	788.2	785.8	782.9	781.3	780.5	772.9
12.5°	781.3	782.9	783.6	786.6	786.6	787.4	787.4	785.1	785.8	785.1	779.0
15°	769.9	775.2	780.5	783.6	789.7	793.5	796.6	795.8	798.0	797.3	793.5
17.5°	769.9	774.5	783.6	793.5	804.9	810.2	814.8	814.8	815.5	814.1	807.9
20°	772.9	781.3	796.6	813.2	827.0	837.6	840.7	839.8	836.9	836.9	826.2
22.5°	798.0	803.3	820.1	838.4	857.3	868.1	868.8	866.5	860.4	858.9	846.0
25°	833.8	839.8	855.1	878.7	893.1	901.5	899.3	891.6	885.6	880.2	866.5
27.5°	889.4	893.9	909.1	925.1	933.4	936.5	927.4	916.8	909.9	907.6	889.4
30°	946.4	952.5	964.6	974.6	981.4	972.2	957.8	945.6	939.6	938.0	921.3
32.5°	1016.4	1017.1	1025.5	1027.8	1028.6	1013.3	993.6	982.1	979.9	976.8	963.9
35°	1080.3	1084.1	1082.6	1081.8	1074.9	1056.0	1039.2	1032.4	1030.1	1029.3	1018.7
37.5°	1137.3	1143.5	1139.7	1132.8	1124.4	1109.2	1091.7	1084.1	1091.7	1087.1	1089.4
40°	1192.9	1192.9	1188.4	1184.5	1174.7	1160.1	1154.1	1154.8	1167.0	1170.1	1173.1
42.5°	1240.8	1240.0	1235.5	1232.5	1230.9	1227.8	1224.9	1239.3	1262.8	1267.4	1274.3
45°	1293.3	1292.5	1275.0	1281.1	1291.8	1294.0	1304.7	1338.2	1367.1	1369.4	1383.8
47.5°	1344.3	1338.2	1321.4	1327.6	1358.0	1373.9	1391.4	1438.6	1479.0	1487.3	1527.6
50°	1397.6	1391.4	1373.2	1384.6	1427.2	1456.9	1497.9	1563.4	1618.9	1630.3	1682.9
52.5°	1453.1	1452.3	1437.9	1455.4	1507.8	1568.0	1632.6	1706.4	1774.1	1788.5	1866.2
55°	1520.0	1516.2	1510.1	1531.5	1605.9	1686.6	1787.8	1888.3	1962.0	1987.9	2066.3
57.5°	1595.3	1593.9	1594.6	1638.7	1728.5	1850.9	1974.9	2110.3	2232.1	2250.4	2323.4
60°	1660.8	1663.8	1681.3	1750.6	1863.1	2028.9	2203.2	2386.5	2494.6	2513.6	2585.1
62.5°	1740.7	1758.1	1796.9	1884.4	2016.7	2217.7	2443.6	2637.6	2776.8	2815.6	2951.0
65°	1932.4	1946.1	2018.3	2124.1	2292.9	2550.1	2809.5	3091.8	3321.5	3356.5	3472.9
67.5°	2072.3	2107.3	2220.7	2393.4	2637.6	2966.3	3322.2	3663.9	3857.9	3873.8	3792.4
69°	2023.6	2052.6	2186.5	2394.9	2689.3	3072.0	3514.8	3871.6	3990.9	3988.0	3766.6
70°	1949.1	1975.7	2123.3	2325.7	2646.0	3059.9	3517.8	3873.1	3945.3	3918.0	3664.6
72.5°	1632.6	1656.2	1794.7	2006.1	2316.6	2727.4	3158.7	3401.4	3386.2	3363.4	2945.0
75°	1019.5	1017.9	1138.9	1261.4	1502.5	1917.9	2238.9	2433.7	2402.5	2385.0	1890.5
77.5°	381.2	407.7	451.9	583.5	694.6	919.0	1178.4	1395.2	1455.4	1378.5	1017.9
80°	198.6	213.0	241.9	288.4	331.7	379.6	456.4	587.3	607.8	566.8	410.8
82.5°	156.7	174.2	203.2	242.6	273.1	254.8	240.4	248.8	247.2	235.8	209.2
85°	118.7	139.2	186.4	226.7	270.1	228.2	181.8	159.0	141.5	142.3	151.4
87.5°	59.3	76.8	146.8	197.8	235.1	151.4	118.7	92.1	76.8	73.8	98.9
90°	23.3	23.3	35.8	45.9	61.0	34.8	34.1	27.9	22.2	22.1	30.0
92.5°	4.1	4.1	4.6	5.1	5.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	5.1	5.1	5.6	6.1	6.6	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	7.2	7.2	7.7	8.2	8.2	8.2	8.7	9.2	9.2	9.2	9.2
100°	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	16.0	16.9	21.5
102.5°	11.3	11.3	12.3	13.3	15.9	18.4	23.0	27.6	32.9	34.3	40.9
105°	21.5	22.5	25.1	27.6	32.2	36.8	43.0	49.1	55.2	56.8	64.4
107.5°	41.9	43.0	46.5	50.1	54.7	59.3	67.0	74.7	80.8	82.3	90.0

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
110°	67.5	69.6	72.6	75.7	82.3	89.0	96.7	104.3	109.3	110.5	116.6
112.5°	101.3	101.3	104.9	108.4	116.1	123.8	130.4	137.1	140.8	141.7	146.3
115°	143.2	142.2	146.3	150.4	156.5	162.6	167.3	171.9	174.3	174.9	178.0
117.5°	188.2	188.2	190.8	193.3	197.4	201.5	204.1	206.6	207.9	208.2	209.7
120°	230.2	228.1	229.7	231.2	234.8	238.3	240.4	242.4	244.9	245.5	248.6
122.5°	269.0	266.0	266.5	267.0	270.1	273.1	275.2	277.2	279.7	280.3	283.4
125°	304.8	300.7	301.8	302.8	304.3	305.9	308.9	312.0	314.0	314.6	317.1
127.5°	337.6	336.6	336.6	336.6	338.6	340.6	343.7	346.8	347.2	347.3	347.8
130°	371.3	369.3	369.8	370.3	372.4	374.4	376.4	378.5	379.3	379.5	380.5
132.5°	405.1	403.0	402.5	402.0	406.1	410.2	411.7	413.3	413.7	413.8	414.3
135°	438.8	435.8	435.8	435.8	438.8	441.9	443.4	445.0	445.8	446.0	447.0
137.5°	470.6	467.5	468.5	469.5	470.0	470.6	472.6	474.6	476.3	476.7	478.7
140°	499.2	496.1	497.2	498.2	499.2	500.2	501.2	502.3	504.7	505.3	508.4
142.5°	529.9	526.8	527.8	528.9	529.4	529.9	531.4	533.0	534.6	535.0	537.0
145°	562.6	558.5	557.5	556.5	558.0	559.6	561.1	562.6	563.0	563.1	563.6
147.5°	588.2	585.1	584.6	584.1	585.6	587.2	587.2	587.2	587.6	587.7	588.2
150°	608.7	605.6	606.1	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
152.5°	625.0	622.0	622.0	622.0	622.5	623.0	623.5	624.0	624.0	624.0	624.0
155°	643.4	639.3	639.3	639.3	640.4	641.4	642.9	644.5	643.6	643.4	642.4
157.5°	660.8	657.8	657.8	657.8	658.3	658.8	659.8	660.8	660.4	660.3	659.8
160°	678.2	675.1	674.6	674.1	672.6	671.1	670.5	670.0	670.0	670.0	670.0
162.5°	688.4	684.4	684.4	684.4	682.3	680.3	678.2	676.2	677.0	677.2	678.2
165°	696.6	693.6	692.5	691.5	691.5	691.5	690.0	688.4	688.4	688.4	688.4
167.5°	705.8	702.8	701.2	699.7	700.7	701.7	702.8	703.8	702.6	702.3	700.7
170°	714.0	711.0	709.4	707.9	707.9	707.9	708.4	708.9	708.1	707.9	706.9
172.5°	715.0	713.0	712.0	711.0	709.9	708.9	707.4	705.8	705.8	705.8	705.8
175°	716.1	714.0	713.5	713.0	712.0	711.0	708.9	706.9	706.4	706.3	705.8
177.5°	723.2	721.2	718.6	716.1	715.6	715.0	714.0	713.0	712.2	712.0	711.0
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1
2.5°	794.2	794.2	792.7	792.0	789.7	786.6	784.4	780.5	778.3	774.5	769.9
5°	784.4	781.3	779.8	776.7	772.2	768.3	763.8	758.5	752.4	744.8	736.4
7.5°	771.4	766.8	761.5	760.1	754.6	750.1	744.8	737.1	728.9	715.1	704.5
10°	766.1	761.5	757.0	753.9	747.1	741.7	735.7	725.8	715.1	696.8	677.1
12.5°	771.4	766.8	762.3	757.0	750.8	744.8	736.4	724.2	709.8	686.2	661.8
15°	784.4	779.8	772.2	766.8	758.5	753.2	741.7	728.0	706.8	677.8	645.9
17.5°	798.8	792.0	785.1	776.7	769.2	762.3	750.1	732.6	706.0	671.8	630.6
20°	812.5	804.9	794.2	788.2	780.5	770.7	757.7	736.4	704.5	659.6	614.7
22.5°	828.5	818.6	807.2	800.4	794.2	785.8	770.7	743.3	704.5	652.7	596.5
25°	849.0	836.1	824.7	817.8	814.1	807.9	789.7	759.2	709.8	649.0	581.2
27.5°	873.4	856.6	846.7	842.2	841.4	836.9	818.6	780.5	722.0	649.0	566.8
30°	902.2	887.8	874.9	874.9	884.0	881.0	860.4	813.2	741.0	651.2	556.1
32.5°	942.5	928.1	920.6	928.1	938.0	941.1	917.5	859.7	772.2	661.8	545.4
35°	1002.0	992.8	987.5	998.9	1018.7	1026.3	997.4	928.9	817.8	682.4	539.4
37.5°	1080.3	1073.5	1066.6	1086.4	1123.6	1138.9	1097.0	1008.7	883.2	716.7	536.3
40°	1170.1	1170.9	1178.4	1218.0	1253.7	1285.7	1238.5	1129.7	973.0	765.4	539.4
42.5°	1276.5	1284.9	1310.8	1365.5	1434.8	1460.0	1414.2	1275.8	1084.8	823.9	547.0
45°	1408.9	1431.0	1475.1	1556.5	1640.2	1679.0	1614.3	1460.0	1225.6	917.5	568.2
47.5°	1549.7	1598.4	1672.9	1771.9	1869.2	1894.3	1814.4	1626.5	1363.3	1000.4	601.0
50°	1730.0	1789.3	1863.9	1982.6	2086.0	2101.2	1995.5	1781.0	1483.5	1072.7	632.2
52.5°	1898.1	1978.8	2073.8	2211.5	2316.6	2297.5	2160.6	1918.6	1578.6	1122.2	649.7
55°	2127.8	2211.5	2318.8	2439.0	2543.3	2497.6	2310.4	2035.8	1654.6	1158.7	655.0
57.5°	2390.3	2454.3	2559.2	2682.5	2750.9	2672.6	2458.0	2149.9	1726.9	1159.4	613.2
60°	2648.2	2722.8	2838.4	2959.4	2997.5	2862.0	2560.8	2167.4	1655.4	1034.6	490.7
62.5°	3030.2	3105.5	3164.0	3183.8	3115.3	2843.0	2441.3	1982.6	1427.2	816.3	347.7
65°	3457.0	3371.7	3258.4	3151.8	2965.4	2551.6	2105.0	1628.8	1107.7	545.4	239.7
67.5°	3568.8	3309.3	3062.8	2825.5	2477.8	2032.0	1587.7	1145.7	710.5	310.4	162.9
69°	3452.4	3073.5	2798.9	2422.2	2063.2	1520.8	1093.9	734.2	424.5	216.0	136.2
70°	3239.4	2845.2	2473.3	2070.0	1598.4	1161.7	727.3	480.8	276.9	157.4	122.4
72.5°	2444.3	1954.4	1506.3	978.4	596.5	330.9	232.8	166.6	131.7	115.6	105.0
75°	1413.5	941.1	616.2	328.7	194.8	144.5	126.3	112.6	104.2	100.5	91.2
77.5°	596.5	372.8	252.6	184.8	130.8	111.8	97.4	89.8	89.0	86.7	78.4
80°	271.6	232.8	198.6	139.2	99.6	85.2	74.6	73.0	74.6	72.3	63.9
82.5°	201.6	198.6	165.8	107.3	76.1	57.1	46.4	48.7	54.7	59.3	51.8
85°	168.2	168.2	139.2	79.9	50.2	36.5	35.8	40.3	45.6	49.4	41.8
87.5°	154.5	148.3	79.9	41.1	28.9	23.6	22.1	19.7	19.7	34.3	28.9
90°	22.4	14.0	12.0	12.3	13.0	12.3	12.8	10.9	10.9	10.9	12.0
92.5°	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	10.7	12.3	11.3	10.2	9.7	9.2	8.7	8.2	8.2	8.2	8.7
100°	25.6	29.7	28.1	26.6	25.1	23.5	21.5	19.4	19.4	19.4	21.5
102.5°	46.0	51.1	49.6	48.1	45.5	43.0	41.4	39.9	38.9	39.9	41.4
105°	69.0	73.7	72.6	71.6	69.0	66.5	64.4	62.4	62.4	62.4	64.4
107.5°	93.6	97.2	96.7	96.2	94.1	92.1	90.5	89.0	88.0	89.0	90.5



REPORT NUMBER: P227075

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	119.7	122.8	123.3	123.8	122.8	121.7	120.2	118.7	119.7	118.7	120.2
112.5°	148.8	151.4	152.4	153.4	152.9	152.4	151.4	150.4	150.4	150.4	151.4
115°	180.6	183.1	184.6	186.2	184.6	183.1	182.1	181.1	182.1	181.1	182.1
117.5°	212.8	215.8	217.9	219.9	217.4	214.8	213.8	212.8	213.8	212.8	213.8
120°	250.1	251.6	253.7	255.7	253.2	250.6	249.6	248.6	248.6	248.6	249.6
122.5°	284.4	285.4	287.4	289.5	286.9	284.4	283.4	282.3	283.4	282.3	283.4
125°	318.6	320.2	321.2	322.2	319.7	317.1	317.1	317.1	317.1	317.1	317.1
127.5°	350.4	352.9	353.4	353.9	353.9	353.9	353.4	352.9	355.0	352.9	353.4
130°	383.1	385.7	387.7	389.7	389.7	389.7	388.7	387.7	388.7	387.7	388.7
132.5°	417.4	420.4	423.0	425.5	424.5	423.5	423.5	423.5	424.5	423.5	423.5
135°	450.1	453.2	455.7	458.3	457.8	457.3	458.8	460.3	461.4	460.3	458.8
137.5°	481.3	483.9	484.9	485.9	486.4	486.9	489.5	492.0	493.1	492.0	489.5
140°	509.9	511.5	512.5	513.5	514.5	515.6	518.1	520.7	522.7	520.7	518.1
142.5°	538.1	539.1	542.2	545.2	545.2	545.2	545.7	546.3	548.3	546.3	545.7
145°	566.2	568.8	571.8	574.9	574.4	573.9	572.3	570.8	572.9	570.8	572.3
147.5°	590.8	593.3	595.9	598.4	598.9	599.4	597.9	596.4	598.4	596.4	597.9
150°	608.7	610.7	612.2	613.8	615.3	616.8	618.4	619.9	624.0	619.9	618.4
152.5°	624.5	625.0	626.6	628.1	630.1	632.2	634.7	637.3	642.4	637.3	634.7
155°	641.4	640.4	642.9	645.5	648.0	650.6	651.6	652.6	655.7	652.6	651.6
157.5°	659.3	658.8	660.8	662.9	663.9	664.9	664.9	664.9	670.0	664.9	664.9
160°	671.6	673.1	676.2	679.2	677.7	676.2	675.7	675.1	681.3	675.1	675.7
162.5°	680.3	682.3	684.4	686.4	685.9	685.4	684.4	683.3	689.5	683.3	684.4
165°	687.9	687.4	690.0	692.5	694.1	695.6	694.6	693.6	697.7	693.6	694.6
167.5°	697.1	693.6	696.6	699.7	701.7	703.8	703.8	703.8	709.9	703.8	703.8
170°	704.3	701.7	703.3	704.8	707.4	709.9	711.0	712.0	717.1	712.0	711.0
172.5°	705.3	704.8	706.3	707.9	708.9	709.9	711.0	712.0	717.1	712.0	711.0
175°	705.8	705.8	708.4	711.0	711.5	712.0	711.0	709.9	715.0	709.9	711.0
177.5°	710.4	709.9	712.5	715.0	716.1	717.1	715.6	714.0	718.1	714.0	715.6
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1



REPORT NUMBER: P227075

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

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1	785.1
2.5°	766.1	763.0	755.4	753.9	751.7	748.6	747.9	744.0	736.4	734.9	735.7
5°	731.1	718.9	710.5	703.7	698.4	684.7	679.3	673.3	662.7	659.6	655.0
7.5°	690.0	675.6	658.8	646.6	632.2	617.8	606.3	591.9	580.4	573.6	561.5
10°	658.1	638.3	616.2	591.9	572.9	550.8	536.3	519.6	501.3	484.6	472.4
12.5°	633.7	606.3	574.4	545.4	518.1	494.5	468.6	445.1	422.3	399.4	379.6
15°	614.0	579.7	539.4	502.9	469.4	434.4	405.5	372.8	343.9	324.1	299.0
17.5°	592.6	548.5	500.6	458.0	414.6	378.1	341.6	307.4	280.0	254.1	233.5
20°	566.8	513.5	461.8	412.4	362.8	321.0	283.8	251.0	224.4	203.9	188.6
22.5°	537.9	475.5	415.4	361.4	311.9	270.9	235.8	211.4	191.7	180.3	175.7
25°	509.7	438.2	370.5	311.2	261.7	226.7	203.2	182.6	172.7	168.2	168.2
27.5°	483.9	400.2	324.9	267.0	219.1	191.7	173.5	165.1	160.5	160.5	162.9
30°	459.5	362.1	281.5	222.9	184.8	164.3	154.5	151.4	152.1	155.2	158.3
32.5°	431.4	325.6	244.2	191.7	160.5	146.8	139.2	139.9	143.8	149.1	154.5
35°	401.7	286.8	211.4	168.2	143.8	133.1	128.6	129.3	134.6	141.5	146.8
37.5°	375.0	255.6	186.4	149.9	131.7	124.8	120.9	121.7	125.5	133.9	140.8
40°	348.4	229.0	165.8	139.2	124.8	117.9	115.6	114.9	117.9	125.5	133.9
42.5°	325.6	206.1	153.6	131.7	120.2	114.2	111.1	111.1	112.6	118.7	127.1
45°	311.9	192.5	145.3	126.3	116.4	111.1	108.0	106.5	108.7	112.6	120.2
47.5°	311.9	185.7	139.9	122.4	113.3	108.7	105.0	104.2	105.0	108.7	116.4
50°	322.5	187.2	139.2	120.9	111.8	105.8	102.0	102.0	103.4	108.7	114.9
52.5°	331.7	190.2	141.5	122.4	111.8	104.2	99.6	98.9	101.2	106.5	111.8
55°	330.2	190.2	143.8	124.8	114.2	105.0	98.9	98.1	99.6	105.0	110.3
57.5°	295.2	178.8	141.5	126.3	117.1	108.7	102.7	100.5	102.0	106.5	111.1
60°	238.9	159.0	135.4	126.3	121.7	115.6	109.6	108.0	108.7	113.3	118.7
62.5°	187.2	141.5	127.8	125.5	124.0	120.9	118.7	117.1	117.1	120.9	125.5
65°	152.1	127.8	121.7	122.4	124.0	123.3	122.4	121.7	121.7	124.0	128.6
67.5°	127.1	114.9	113.3	115.6	117.1	117.9	118.7	117.9	118.7	120.9	126.3
69°	115.6	108.0	106.5	108.0	111.1	111.8	113.3	112.6	113.3	115.6	120.9
70°	108.7	102.7	101.2	103.4	105.8	106.5	108.0	107.3	108.0	110.3	115.6
72.5°	94.3	87.5	85.2	86.7	89.0	89.0	91.2	92.1	90.5	91.2	95.1
75°	80.6	73.0	69.3	70.0	70.0	70.0	71.5	71.5	70.0	69.3	70.0
77.5°	67.7	59.3	54.7	54.7	54.7	54.0	51.8	52.5	53.3	52.5	53.3
80°	53.3	46.4	41.8	41.8	41.8	40.3	39.6	39.6	41.1	42.6	41.8
82.5°	41.1	34.3	31.9	31.2	31.2	29.7	29.7	31.2	30.4	31.2	32.7
85°	29.7	24.3	22.1	22.8	22.1	20.6	21.3	23.6	23.6	22.8	24.3
87.5°	18.2	15.2	14.4	15.2	13.7	11.5	10.6	11.5	12.9	12.2	13.7
90°	11.5	10.7	10.7	9.7	9.4	8.7	8.7	9.2	10.4	10.4	9.7
92.5°	6.1	6.6	7.2	7.2	7.2	6.6	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.7	8.2	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.2	9.7	10.2	11.3	12.3	10.7	9.2	9.2	9.2	8.7	8.2
100°	23.5	25.1	26.6	28.1	29.7	25.6	21.5	16.9	12.3	11.3	10.2
102.5°	43.0	45.5	48.1	49.6	51.1	46.0	40.9	34.3	27.6	23.0	18.4
105°	66.5	69.0	71.6	72.6	73.7	69.0	64.4	56.8	49.1	43.0	36.8
107.5°	92.1	94.1	96.2	96.7	97.2	93.6	90.0	82.3	74.7	67.0	59.3



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

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	121.7	122.8	123.8	123.3	122.8	119.7	116.6	110.5	104.3	96.7	89.0	0°
112.5°	152.4	152.9	153.4	152.4	151.4	148.8	146.3	141.7	137.1	130.4	123.8	2.5°
115°	183.1	184.6	186.2	184.6	183.1	180.6	178.0	174.9	171.9	167.3	162.6	5°
117.5°	214.8	217.4	219.9	217.9	215.8	212.8	209.7	208.2	206.6	204.1	201.5	7.5°
120°	250.6	253.2	255.7	253.7	251.6	250.1	248.6	245.5	242.4	240.4	238.3	10°
122.5°	284.4	286.9	289.5	287.4	285.4	284.4	283.4	280.3	277.2	275.2	273.1	12.5°
125°	317.1	319.7	322.2	321.2	320.2	318.6	317.1	314.6	312.0	308.9	305.9	15°
127.5°	353.9	353.9	353.9	353.4	352.9	350.4	347.8	347.3	346.8	343.7	340.6	17.5°
130°	389.7	389.7	389.7	387.7	385.7	383.1	380.5	379.5	378.5	376.4	374.4	20°
132.5°	423.5	424.5	425.5	423.0	420.4	417.4	414.3	413.8	413.3	411.7	410.2	22.5°
135°	457.3	457.8	458.3	455.7	453.2	450.1	447.0	446.0	445.0	443.4	441.9	25°
137.5°	486.9	486.4	485.9	484.9	483.9	481.3	478.7	476.7	474.6	472.6	470.6	27.5°
140°	515.6	514.5	513.5	512.5	511.5	509.9	508.4	505.3	502.3	501.2	500.2	30°
142.5°	545.2	545.2	545.2	542.2	539.1	538.1	537.0	535.0	533.0	531.4	529.9	32.5°
145°	573.9	574.4	574.9	571.8	568.8	566.2	563.6	563.1	562.6	561.1	559.6	35°
147.5°	599.4	598.9	598.4	595.9	593.3	590.8	588.2	587.7	587.2	587.2	587.2	37.5°
150°	616.8	615.3	613.8	612.2	610.7	608.7	606.6	606.6	606.6	606.6	606.6	40°
152.5°	632.2	630.1	628.1	626.6	625.0	624.5	624.0	624.0	624.0	623.5	623.0	42.5°
155°	650.6	648.0	645.5	642.9	640.4	641.4	642.4	643.4	644.5	642.9	641.4	45°
157.5°	664.9	663.9	662.9	660.8	658.8	659.3	659.8	660.3	660.8	659.8	658.8	47.5°
160°	676.2	677.7	679.2	676.2	673.1	671.6	670.0	670.0	670.0	670.5	671.1	50°
162.5°	685.4	685.9	686.4	684.4	682.3	680.3	678.2	677.2	676.2	678.2	680.3	52.5°
165°	695.6	694.1	692.5	690.0	687.4	687.9	688.4	688.4	688.4	690.0	691.5	55°
167.5°	703.8	701.7	699.7	696.6	693.6	697.1	700.7	702.3	703.8	702.8	701.7	57.5°
170°	709.9	707.4	704.8	703.3	701.7	704.3	706.9	707.9	708.9	708.4	707.9	60°
172.5°	709.9	708.9	707.9	706.3	704.8	705.3	705.8	705.8	705.8	707.4	708.9	62.5°
175°	712.0	711.5	711.0	708.4	705.8	705.8	705.8	706.3	706.9	708.9	711.0	65°
177.5°	717.1	716.1	715.0	712.5	709.9	710.4	711.0	712.0	713.0	714.0	715.0	67.5°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	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-800-LED-E1-SL4-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
785.1	785.1	785.1	785.1	785.1
730.4	732.6	722.7	727.3	724.2
650.5	646.6	645.9	643.6	639.0
556.9	553.8	544.7	547.8	540.9
460.2	459.5	442.7	443.6	435.2
371.2	357.5	350.7	340.8	346.2
287.6	276.2	261.7	257.9	263.2
216.9	205.4	198.6	192.5	190.2
179.5	172.7	168.9	166.6	165.1
173.5	172.0	171.1	169.6	168.9
169.6	171.1	171.1	171.1	169.6
165.8	168.9	169.6	168.9	167.4
162.0	164.3	164.3	163.6	161.3
156.7	159.0	159.0	158.3	156.7
150.7	152.1	152.9	152.9	153.6
146.1	147.6	149.1	150.7	152.9
140.8	143.0	143.8	146.8	149.9
133.9	137.0	138.5	140.8	143.8
127.1	130.8	131.7	134.6	137.7
124.0	127.1	127.1	129.3	131.7
120.2	121.7	120.9	122.4	123.3
116.4	117.9	117.1	118.7	119.5
113.3	114.9	116.4	117.9	118.7
114.9	117.1	117.9	120.2	120.9
121.7	124.8	127.8	130.8	133.1
128.6	132.4	139.2	152.9	158.3
132.4	137.7	153.6	177.3	184.1
130.1	137.0	156.0	181.1	189.5
125.5	130.8	151.4	177.3	184.8
119.5	124.8	145.3	173.5	180.3
96.6	99.6	122.4	149.1	153.6
70.8	73.0	90.5	101.2	100.5
54.7	57.8	63.9	64.7	63.9
43.4	44.9	48.0	48.0	48.7
33.5	34.3	35.8	34.3	33.5
25.1	24.3	23.6	22.8	22.1
14.4	14.4	12.2	10.6	9.9
9.2	9.4	8.4	6.6	5.1
5.6	5.1	4.6	4.1	4.1
6.6	6.1	5.6	5.1	5.1
8.2	8.2	7.7	7.2	7.2
9.7	9.2	8.7	8.2	8.2
15.9	13.3	12.3	11.3	11.3
32.2	27.6	25.1	22.5	21.5
54.7	50.1	46.5	43.0	41.9

CANDELA DISTRIBUTION:

	160°
110°	82.3
112.5°	116.1
115°	156.5
117.5°	197.4
120°	234.8
122.5°	270.1
125°	304.3
127.5°	338.6
130°	372.4
132.5°	406.1
135°	438.8
137.5°	470.0
140°	499.2
142.5°	529.4
145°	558.0
147.5°	585.6
150°	606.6
152.5°	622.5
155°	640.4
157.5°	658.3
160°	672.6
162.5°	682.3
165°	691.5
167.5°	700.7
170°	707.9
172.5°	709.9
175°	712.0
177.5°	715.6
180°	716.1

'227075

IST-AF-800-LED-E1-SL4-ULG

TION (continued):

165°	170°	175°	180°
75.7	72.6	69.6	67.5
108.4	104.9	101.3	101.3
150.4	146.3	142.2	143.2
193.3	190.8	188.2	188.2
231.2	229.7	228.1	230.2
267.0	266.5	266.0	269.0
302.8	301.8	300.7	304.8
336.6	336.6	336.6	337.6
370.3	369.8	369.3	371.3
402.0	402.5	403.0	405.1
435.8	435.8	435.8	438.8
469.5	468.5	467.5	470.6
498.2	497.2	496.1	499.2
528.9	527.8	526.8	529.9
556.5	557.5	558.5	562.6
584.1	584.6	585.1	588.2
606.6	606.1	605.6	608.7
622.0	622.0	622.0	625.0
639.3	639.3	639.3	643.4
657.8	657.8	657.8	660.8
674.1	674.6	675.1	678.2
684.4	684.4	684.4	688.4
691.5	692.5	693.6	696.6
699.7	701.2	702.8	705.8
707.9	709.4	711.0	714.0
711.0	712.0	713.0	715.0
713.0	713.5	714.0	716.1
716.1	718.6	721.2	723.2
716.1	716.1	716.1	716.1

(END OF REPORT)