

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: P226950

Luminaire Tested: **IST-AF-600-LED-E1-SL3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-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-600-LED-E1-SL3-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III 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: 5740.7 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

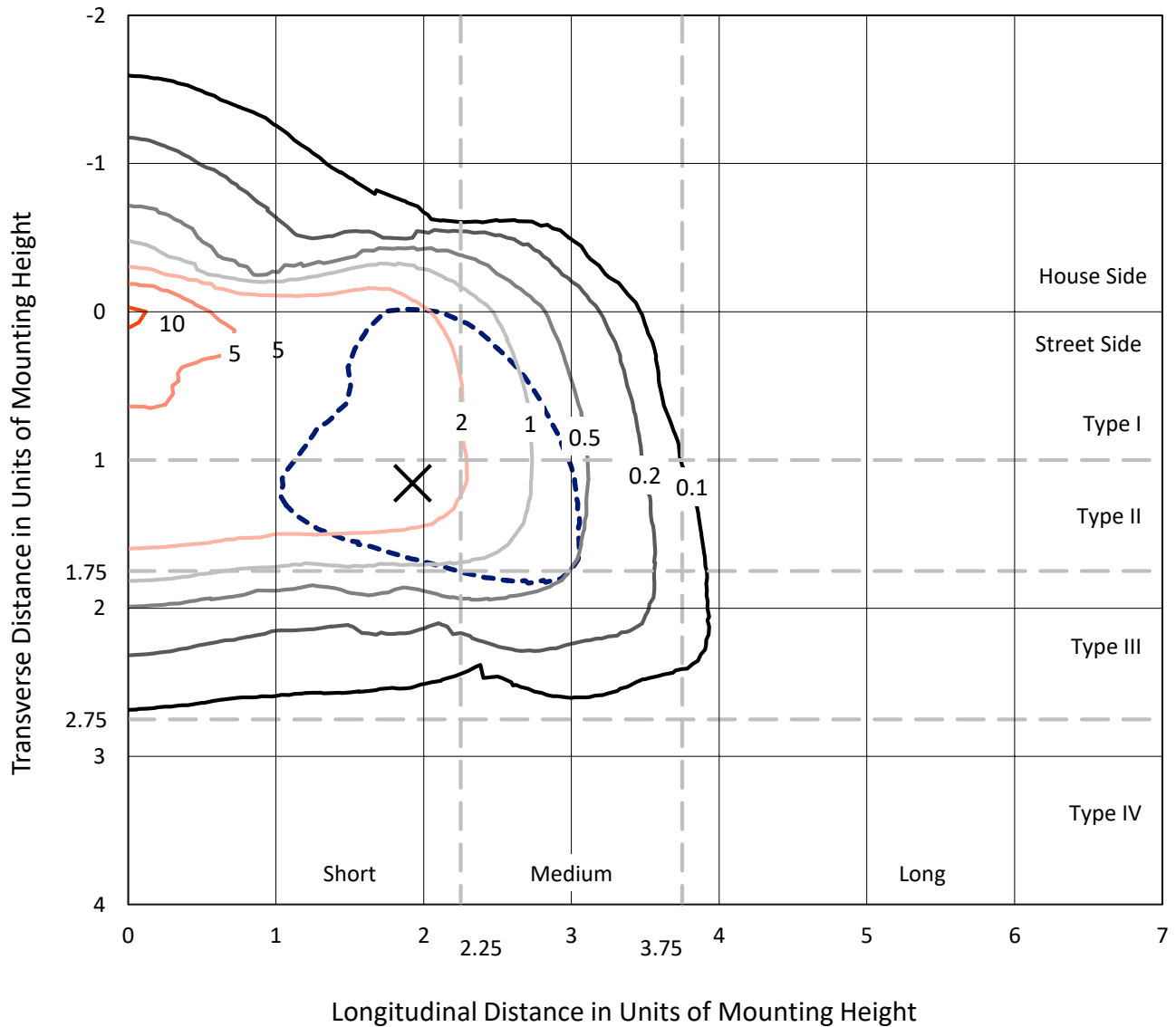
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

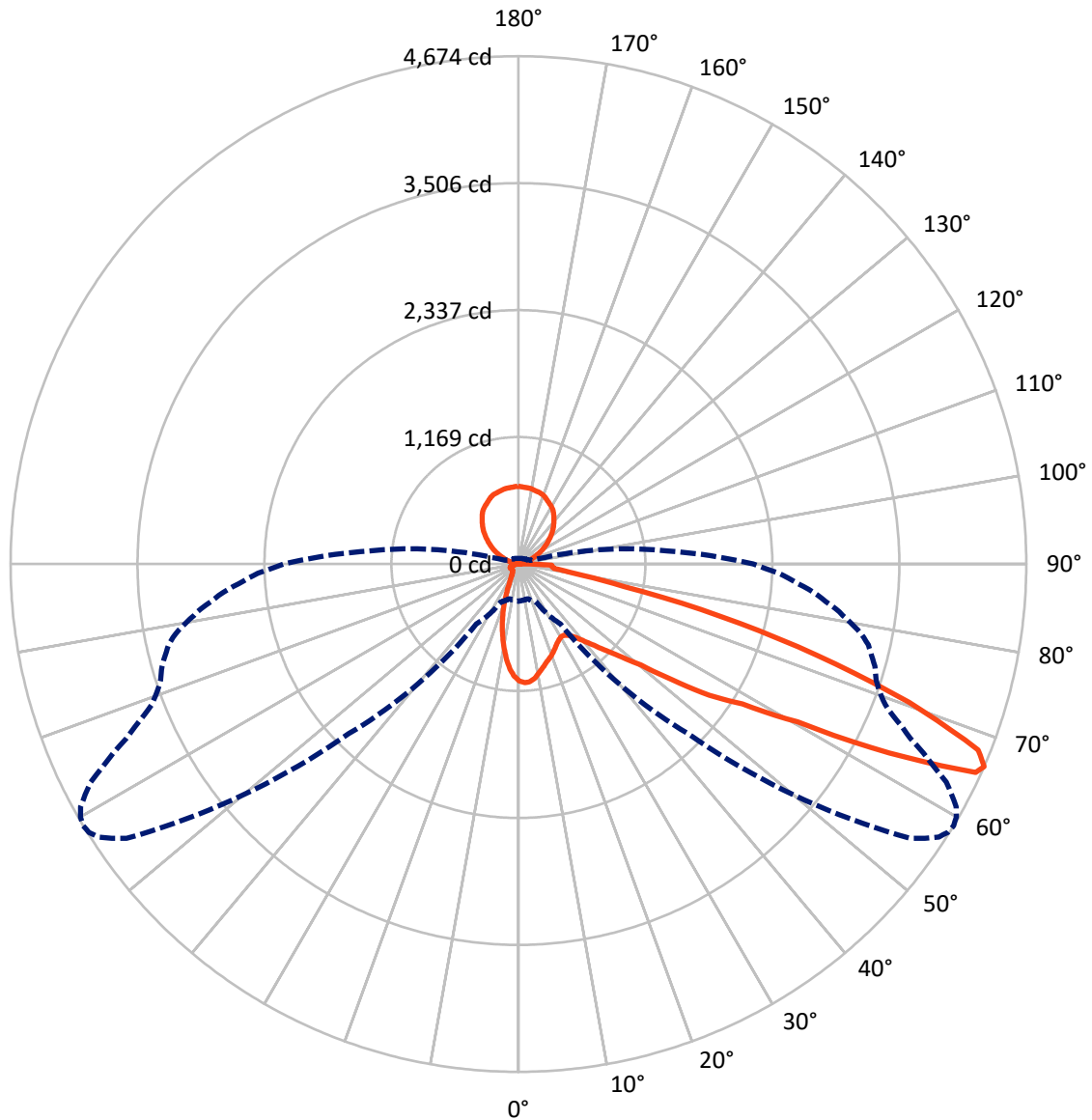
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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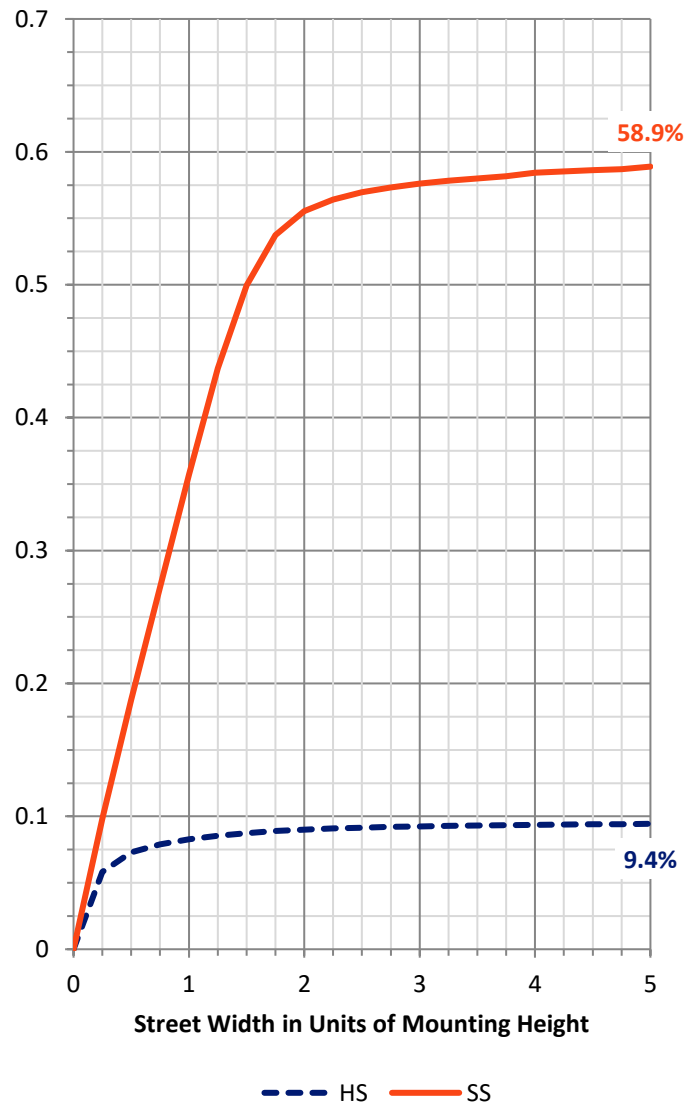
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.6	887.7	1438.3
	% Fixture	9.6	15.5	25.1
Street Side	Lumens	3413.4	888.9	4302.4
	% Fixture	59.5	15.5	74.9
Total	Lumens	3964.0	1776.7	5740.7
	% Fixture	69.1	30.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.6
10°-20°	194.0	3.4
20°-30°	243.3	4.2
30°-40°	332.9	5.8
40°-50°	535.5	9.3
50°-60°	930.4	16.2
60°-70°	1130.5	19.7
70°-80°	421.7	7.3
80°-90°	84.0	1.5
90°-100°	11.2	0.2
100°-110°	58.7	1.0
110°-120°	169.9	3.0
120°-130°	279.4	4.9
130°-140°	344.6	6.0
140°-150°	352.5	6.1
150°-160°	297.0	5.2
160°-170°	195.5	3.4
170°-180°	67.8	1.2
0°-90°	3964.0	69.1
0°-180°	5740.7	100.0



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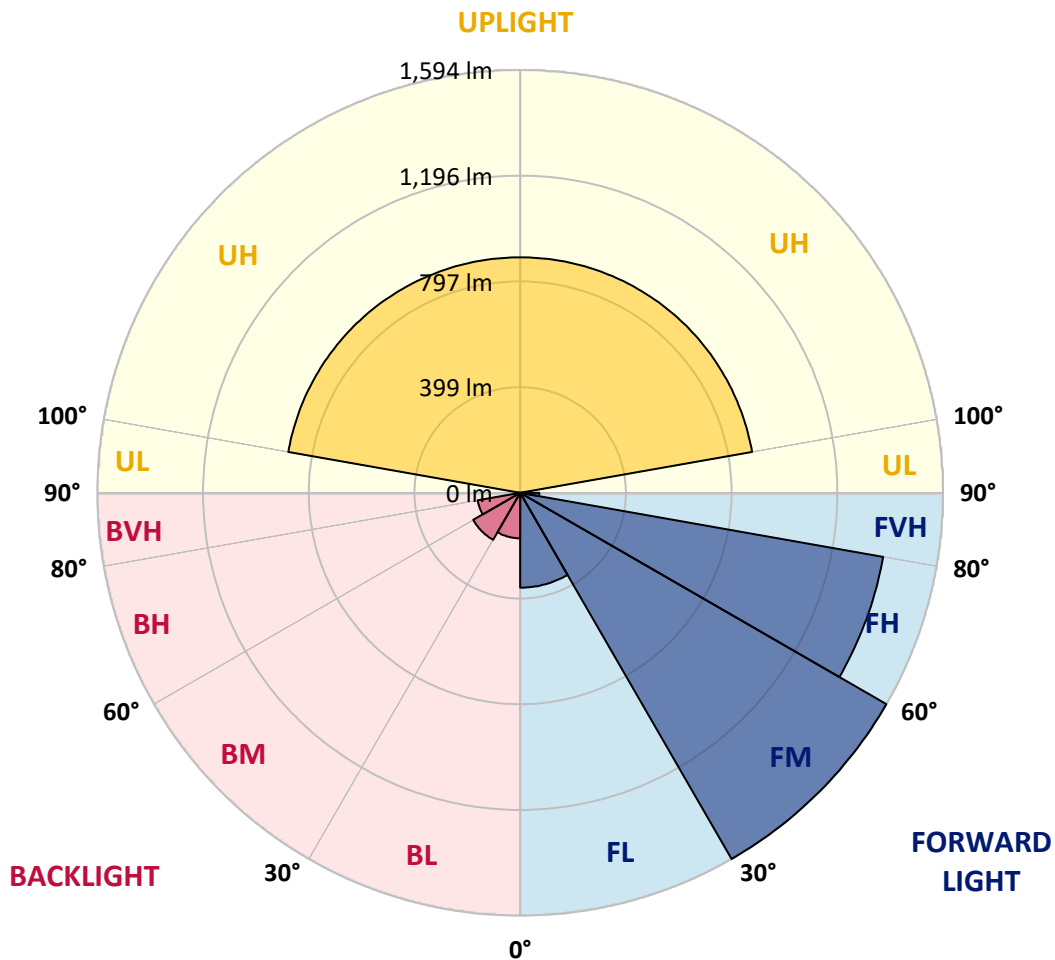
CATALOG NUMBER: IST-AF-600-LED-E1-SL3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.5	6.2			
FM	(30°-60°)	1594.3	27.8			
FH	(60°-80°)	1389.6	24.2			G1/1800
FVH	(80°-90°)	72.1	1.3			G1/100
BL	(0°-30°)	171.5	3.0	B1/500		
BM	(30°-60°)	204.5	3.6	B0/220		
BH	(60°-80°)	162.7	2.8	B1/500		G1/500
BVH	(80°-90°)	11.9	0.2			G1/100
UL	(90°-100°)	11.2	0.2		U2/50	
UH	(100°-180°)	887.7	15.5		U4/1000	

BUG Rating: B1-U5-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1
2.5°	1105.1	1101.4	1108.1	1105.6	1107.4	1098.3	1096.5	1094.8	1095.9	1094.1	1094.1
5°	1078.9	1077.1	1084.9	1089.2	1092.9	1091.7	1091.1	1091.1	1091.7	1087.4	1088.0
7.5°	1002.3	1001.1	1012.0	1020.0	1037.6	1047.9	1061.3	1061.9	1063.2	1061.3	1064.9
10°	920.9	924.5	934.3	947.0	973.1	989.0	1014.5	1019.4	1021.2	1021.7	1022.3
12.5°	843.1	839.4	851.6	875.9	911.1	936.7	968.9	971.3	974.4	978.7	982.9
15°	773.8	778.1	787.8	813.2	850.4	886.2	928.1	930.6	936.7	940.3	946.4
17.5°	726.4	726.4	737.3	761.0	795.7	841.3	894.2	898.4	903.3	908.1	914.8
20°	702.7	702.7	707.0	720.9	751.3	795.0	858.9	863.8	872.3	877.7	886.8
22.5°	700.8	700.2	699.6	702.7	720.9	754.9	821.2	827.9	835.1	843.6	851.6
25°	720.3	722.1	714.8	709.9	711.8	727.6	785.3	789.0	802.9	808.4	818.2
27.5°	748.3	751.3	745.2	738.0	727.0	716.7	754.9	761.0	770.1	779.3	791.4
30°	788.4	787.8	787.2	782.3	761.0	728.8	745.8	750.0	758.0	765.3	775.6
32.5°	831.6	836.4	840.0	837.6	815.7	761.0	758.6	762.2	769.6	773.8	780.5
35°	887.4	889.9	903.9	903.9	882.0	818.8	794.4	797.5	801.2	802.9	807.8
37.5°	948.8	957.4	978.0	990.1	956.2	890.5	851.0	851.0	852.8	854.0	857.0
40°	1020.0	1032.1	1060.7	1083.8	1061.9	979.8	925.2	930.6	928.7	926.4	933.0
42.5°	1102.6	1115.9	1150.6	1172.5	1159.7	1087.4	1024.8	1021.2	1026.6	1019.4	1021.7
45°	1198.7	1209.0	1244.2	1267.3	1277.7	1219.4	1155.5	1148.2	1148.2	1132.4	1139.1
47.5°	1284.9	1288.0	1322.1	1362.8	1396.2	1397.5	1307.4	1302.6	1291.1	1280.7	1278.3
50°	1365.2	1374.3	1396.2	1440.6	1510.5	1571.3	1516.5	1501.4	1488.6	1450.3	1461.8
52.5°	1504.4	1522.0	1536.0	1562.8	1645.4	1768.8	1836.3	1812.6	1809.5	1774.9	1766.9
55°	1530.5	1532.4	1578.5	1733.0	1927.4	2016.2	2145.6	2145.0	2154.7	2143.8	2133.5
57.5°	1407.8	1393.2	1470.4	1674.0	2064.8	2520.7	2481.2	2485.5	2472.7	2439.2	2428.9
60°	1096.5	1108.7	1191.9	1451.5	1965.7	2846.5	3107.2	3030.1	3085.4	2998.5	2951.6
62.5°	616.9	602.9	659.5	932.4	1612.6	2863.5	3960.0	3968.5	3995.3	3946.6	3832.4
65°	398.1	392.1	386.6	471.7	966.5	2504.9	4431.7	4536.3	4598.9	4624.5	4626.2
66°	342.2	337.4	330.6	386.0	673.5	2207.0	4401.3	4513.2	4612.9	4660.3	4674.3
67.5°	291.1	283.9	282.6	319.7	468.6	1712.3	4111.4	4287.1	4375.2	4498.0	4564.8
70°	222.5	218.8	229.8	276.0	359.9	806.0	3276.2	3505.3	3657.4	3753.4	3815.4
72.5°	186.6	185.4	200.6	252.3	340.9	457.1	2293.4	2539.6	2698.1	2790.0	2875.1
75°	145.9	147.1	167.2	240.7	339.2	398.1	1332.4	1567.0	1659.4	1804.1	1914.7
77.5°	109.5	108.2	124.0	194.5	330.6	403.6	692.3	789.6	891.1	964.6	991.3
80°	76.6	77.8	88.8	133.7	257.7	415.1	431.6	454.1	475.4	499.0	503.9
82.5°	51.0	51.7	65.7	91.8	178.7	396.3	403.0	392.7	376.2	355.6	333.1
85°	31.0	32.2	46.9	62.0	138.6	358.6	417.0	389.6	364.7	337.4	310.0
87.5°	15.8	17.6	27.9	36.5	82.0	176.9	434.0	413.9	379.9	338.0	307.6
90°	9.4	9.4	13.2	17.3	24.6	43.1	116.6	105.9	56.8	101.4	54.2
92.5°	4.1	4.1	5.1	6.1	6.1	6.1	7.2	7.2	7.2	7.2	7.2
95°	5.1	5.1	6.1	7.2	7.2	7.2	7.2	7.3	7.4	7.5	7.6
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	12.1	11.9	11.7	11.5
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	29.4	29.1	28.7	28.4
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	50.8	50.5	50.2	49.9
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	73.4	73.2	73.0	72.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	97.1	97.0	96.9	96.8



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CATALOG NUMBER: IST-AF-600-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	122.9	123.0	123.1	123.2
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	151.6	151.8	152.0	152.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	183.4	183.7	184.0	184.3
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	216.3	216.7	217.1	217.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	252.1	252.5	252.9	253.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	285.8	286.2	286.6	287.0
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	320.4	320.6	320.8	321.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.0	353.1	353.2	353.3
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	386.1	386.5	386.9	387.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	420.9	421.5	422.0	422.5
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	453.7	454.2	454.7	455.2
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.1	484.3	484.5	484.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	511.7	511.9	512.1	512.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	539.7	540.3	540.9	541.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	569.4	570.0	570.6	571.2
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	593.8	594.3	594.8	595.4
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	611.0	611.3	611.6	611.9
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	625.3	625.6	625.9	626.3
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	640.9	641.4	641.9	642.4
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	659.2	659.6	660.0	660.4
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	673.7	674.3	674.9	675.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	682.7	683.1	683.5	683.9
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	687.9	688.4	689.0	689.5
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	694.2	694.8	695.4	696.0
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	702.1	702.4	702.7	703.0
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	705.1	705.4	705.7	706.0
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	706.3	706.9	707.4	707.9
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	710.4	711.0	711.5	712.0
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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CATALOG NUMBER: IST-AF-600-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1
2.5°	1093.5	1094.8	1093.5	1091.7	1093.5	1091.7	1091.1	1090.5	1091.1	1089.9	1089.2
5°	1088.0	1089.2	1089.2	1085.6	1084.9	1087.4	1083.8	1084.9	1083.8	1082.6	1080.1
7.5°	1061.9	1062.5	1063.2	1060.7	1062.5	1062.5	1061.3	1061.3	1060.1	1060.7	1058.2
10°	1025.4	1027.9	1030.3	1029.1	1028.5	1033.9	1031.5	1033.3	1033.3	1031.5	1032.1
12.5°	985.9	990.1	993.2	993.2	995.6	1001.7	1001.1	1002.3	1007.2	1007.2	1005.4
15°	949.4	953.7	958.6	962.2	967.1	971.3	974.4	979.3	981.6	981.6	984.7
17.5°	920.9	927.0	932.4	934.3	940.9	948.2	950.0	956.2	959.7	961.6	965.3
20°	892.9	899.6	906.3	912.4	918.4	927.0	931.2	934.9	940.9	944.6	950.0
22.5°	860.1	870.4	878.9	886.2	896.5	903.9	912.4	918.4	925.8	931.2	935.5
25°	829.1	843.1	854.6	861.9	875.9	886.2	896.5	905.7	914.8	922.7	928.7
27.5°	800.6	816.3	830.3	841.9	857.0	873.5	883.8	899.0	911.1	922.1	929.4
30°	786.5	799.9	814.5	827.9	843.1	863.8	880.8	900.2	915.4	929.4	940.3
32.5°	789.6	801.7	814.5	826.0	841.9	864.9	882.6	905.1	927.5	945.8	959.7
35°	813.9	824.8	833.3	843.6	857.6	875.2	894.2	917.8	945.8	970.1	988.4
37.5°	864.9	868.0	876.5	884.4	891.7	908.1	925.8	945.8	978.0	1003.5	1029.1
40°	928.1	936.1	944.0	947.7	956.2	966.5	974.4	995.6	1024.2	1057.6	1085.6
42.5°	1022.3	1025.4	1026.6	1027.9	1030.9	1038.2	1049.8	1069.2	1097.1	1126.9	1157.9
45°	1128.1	1131.8	1135.5	1137.2	1133.0	1137.2	1149.4	1158.5	1185.9	1213.8	1253.3
47.5°	1274.6	1263.7	1258.2	1265.5	1261.9	1271.0	1276.4	1282.0	1314.8	1348.1	1381.6
50°	1462.4	1455.8	1447.3	1447.9	1454.5	1448.5	1452.1	1472.1	1483.1	1511.1	1555.5
52.5°	1762.7	1742.1	1709.9	1695.8	1703.7	1698.9	1700.8	1705.0	1697.7	1723.8	1761.5
55°	2133.5	2106.8	2085.5	2073.3	2028.3	2024.7	1995.0	1984.0	1960.3	1985.2	1976.6
57.5°	2397.9	2380.9	2370.0	2333.5	2312.8	2271.5	2259.3	2244.8	2211.9	2228.3	2242.9
60°	2908.5	2847.7	2827.0	2763.2	2741.9	2702.4	2652.0	2627.0	2610.1	2625.8	2616.1
62.5°	3760.7	3676.2	3659.8	3508.4	3471.4	3380.1	3285.3	3272.6	3219.1	3185.7	3177.8
65°	4592.8	4471.8	4381.3	4216.0	4104.1	3974.1	3829.4	3723.6	3614.8	3560.1	3487.8
66°	4654.8	4606.8	4515.6	4418.9	4256.1	4113.8	3949.7	3835.5	3713.3	3617.3	3555.3
67.5°	4549.1	4523.5	4491.3	4425.7	4323.5	4191.0	4035.4	3889.6	3742.5	3629.4	3530.3
70°	3845.2	3873.1	3909.6	3892.5	3834.2	3782.6	3645.2	3563.8	3453.1	3304.8	3244.0
72.5°	2902.4	2977.2	2951.6	2855.6	2810.7	2774.8	2724.9	2670.2	2511.5	2493.3	2421.6
75°	1867.3	1842.3	1858.8	1742.1	1662.4	1629.6	1511.1	1462.4	1343.3	1266.1	1207.2
77.5°	984.1	935.5	897.7	795.0	721.5	678.3	620.6	552.5	448.0	441.9	346.5
80°	456.4	419.4	385.3	349.5	313.6	266.3	231.0	188.4	166.5	142.8	133.1
82.5°	310.0	286.3	265.7	241.9	214.6	181.8	156.8	133.1	113.6	102.1	93.0
85°	280.8	255.3	232.2	202.4	173.8	146.5	119.8	99.1	80.8	70.5	64.4
87.5°	272.9	241.3	217.0	184.7	156.8	128.9	103.3	80.2	62.6	51.0	43.8
90°	42.9	45.4	35.3	34.4	19.9	23.2	19.5	15.2	15.9	14.1	14.6
92.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.0	6.9	6.8	6.6
95°	7.7	7.8	7.9	8.0	8.1	8.2	8.1	8.0	7.9	7.8	7.7
97.5°	11.3	11.0	10.8	10.6	10.4	10.2	10.1	10.0	9.9	9.8	9.7
100°	28.1	27.8	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1
102.5°	49.6	49.3	49.0	48.7	48.4	48.1	47.6	47.1	46.5	46.0	45.5
105°	72.6	72.4	72.2	72.0	71.8	71.6	71.1	70.6	70.1	69.6	69.0
107.5°	96.7	96.6	96.5	96.4	96.3	96.2	95.7	95.3	94.9	94.5	94.1



REPORT NUMBER: P226950

CATALOG NUMBER: IST-AF-600-LED-E1-SL3-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	123.3	123.4	123.5	123.6	123.7	123.8	123.6	123.4	123.2	123.0	122.8
112.5°	152.4	152.6	152.8	153.0	153.2	153.4	153.3	153.2	153.1	153.0	152.9
115°	184.6	184.9	185.3	185.6	185.9	186.2	185.9	185.6	185.3	184.9	184.6
117.5°	217.9	218.3	218.7	219.1	219.5	219.9	219.4	218.9	218.4	217.9	217.4
120°	253.7	254.1	254.5	254.9	255.3	255.7	255.2	254.7	254.2	253.7	253.2
122.5°	287.4	287.9	288.3	288.7	289.1	289.5	289.0	288.5	288.0	287.4	286.9
125°	321.2	321.4	321.6	321.8	322.0	322.2	321.7	321.2	320.7	320.2	319.7
127.5°	353.4	353.5	353.6	353.7	353.8	353.9	353.9	353.9	353.9	353.9	353.9
130°	387.7	388.1	388.5	388.9	389.3	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	423.0	423.5	424.0	424.5	425.0	425.5	425.3	425.1	424.9	424.7	424.5
135°	455.7	456.2	456.7	457.3	457.8	458.3	458.2	458.1	458.0	457.9	457.8
137.5°	484.9	485.1	485.3	485.5	485.7	485.9	486.0	486.1	486.2	486.3	486.4
140°	512.5	512.7	512.9	513.1	513.3	513.5	513.7	513.9	514.1	514.3	514.5
142.5°	542.2	542.8	543.4	544.0	544.6	545.2	545.2	545.2	545.2	545.2	545.2
145°	571.8	572.4	573.1	573.7	574.3	574.9	574.8	574.7	574.6	574.5	574.4
147.5°	595.9	596.4	596.9	597.4	597.9	598.4	598.5	598.6	598.7	598.8	598.9
150°	612.2	612.5	612.8	613.2	613.5	613.8	614.1	614.4	614.7	615.0	615.3
152.5°	626.6	626.9	627.2	627.5	627.8	628.1	628.5	628.9	629.3	629.7	630.1
155°	642.9	643.4	643.9	644.5	645.0	645.5	646.0	646.5	647.0	647.5	648.0
157.5°	660.8	661.2	661.6	662.1	662.5	662.9	663.1	663.3	663.5	663.7	663.9
160°	676.2	676.8	677.4	678.0	678.6	679.2	678.9	678.6	678.3	678.0	677.7
162.5°	684.4	684.8	685.2	685.6	686.0	686.4	686.3	686.2	686.1	686.0	685.9
165°	690.0	690.5	691.0	691.5	692.0	692.5	692.8	693.2	693.5	693.8	694.1
167.5°	696.6	697.2	697.9	698.5	699.1	699.7	700.1	700.5	700.9	701.3	701.7
170°	703.3	703.6	703.9	704.2	704.5	704.8	705.3	705.8	706.3	706.9	707.4
172.5°	706.3	706.7	707.0	707.3	707.6	707.9	708.1	708.3	708.5	708.7	708.9
175°	708.4	708.9	709.4	709.9	710.4	711.0	711.1	711.2	711.3	711.4	711.5
177.5°	712.5	713.0	713.5	714.0	714.5	715.0	715.2	715.5	715.7	715.9	716.1
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):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1
2.5°	1088.0	1086.2	1088.0	1087.4	1084.9	1085.6	1086.2	1083.8	1082.6	1082.6	1082.0
5°	1078.3	1077.1	1078.3	1077.7	1074.0	1073.5	1073.5	1071.6	1069.2	1067.3	1066.1
7.5°	1055.2	1056.4	1055.8	1053.9	1052.2	1052.2	1050.4	1046.1	1043.6	1041.3	1038.8
10°	1029.1	1029.1	1029.7	1029.1	1026.0	1024.8	1022.3	1020.0	1020.6	1014.5	1009.7
12.5°	1006.0	1006.0	1005.4	1004.1	1002.3	1001.7	1001.7	994.4	992.6	990.7	985.3
15°	984.1	985.3	985.3	985.3	982.2	982.2	979.3	974.4	974.4	968.9	963.4
17.5°	967.1	968.9	968.3	968.9	969.5	965.9	960.3	957.4	953.7	950.6	943.4
20°	952.5	953.7	954.3	954.3	952.5	950.0	945.2	940.3	937.8	931.8	922.7
22.5°	939.1	941.5	942.1	942.1	939.7	937.8	933.0	925.8	920.9	913.6	905.1
25°	933.6	936.7	934.9	936.1	933.6	929.4	922.7	916.7	909.3	900.2	891.1
27.5°	935.5	939.7	938.5	937.8	934.9	931.8	923.3	916.1	907.5	896.5	885.1
30°	946.4	953.7	950.6	948.2	947.7	940.3	932.4	922.1	912.4	899.6	886.2
32.5°	967.1	970.7	971.3	969.5	966.5	960.3	949.4	936.1	925.2	909.9	894.2
35°	1001.1	1004.7	1003.5	1003.5	1000.5	990.7	977.4	964.0	948.8	931.8	915.4
37.5°	1048.5	1055.2	1053.9	1051.6	1047.9	1036.4	1026.0	1009.7	992.6	970.1	951.2
40°	1108.1	1118.4	1127.5	1125.8	1117.2	1106.8	1097.1	1078.3	1061.3	1036.4	1015.7
42.5°	1188.4	1202.3	1213.8	1222.3	1218.7	1205.3	1188.4	1180.4	1156.1	1130.6	1109.3
45°	1291.1	1320.2	1330.6	1340.9	1340.9	1332.4	1328.7	1313.0	1287.4	1253.3	1233.3
47.5°	1426.6	1465.5	1477.0	1494.6	1505.0	1495.9	1489.2	1462.4	1445.4	1398.7	1393.8
50°	1591.3	1630.2	1661.8	1682.4	1679.5	1687.4	1671.5	1656.4	1632.6	1594.4	1581.0
52.5°	1801.6	1832.6	1861.2	1873.3	1886.1	1884.3	1880.7	1870.3	1840.5	1819.8	1785.9
55°	2017.4	2042.9	2077.6	2097.7	2114.0	2111.1	2097.0	2072.1	2077.6	2034.4	2015.6
57.5°	2263.0	2290.9	2328.6	2347.5	2354.7	2391.9	2382.8	2379.7	2369.4	2354.1	2334.7
60°	2685.5	2693.3	2724.3	2771.7	2830.1	2818.5	2833.2	2842.9	2850.1	2816.1	2813.6
62.5°	3188.7	3198.5	3225.2	3234.9	3243.4	3244.6	3225.2	3225.2	3191.7	3148.0	3114.0
65°	3463.4	3443.4	3425.1	3414.8	3392.3	3372.3	3343.1	3303.6	3247.1	3179.6	3118.8
66°	3503.0	3462.3	3438.5	3412.4	3376.6	3339.4	3304.8	3250.7	3184.4	3104.2	3023.9
67.5°	3464.6	3408.8	3353.4	3315.2	3265.3	3198.5	3137.7	3074.5	3011.9	2901.8	2827.0
70°	3115.2	3048.3	2987.5	2903.6	2824.6	2759.0	2654.5	2544.4	2453.9	2338.4	2264.8
72.5°	2313.4	2234.4	2155.4	2037.5	1922.6	1905.6	1774.3	1644.8	1575.5	1482.6	1407.8
75°	1142.7	1043.0	901.4	838.2	746.4	701.4	676.5	582.9	560.5	468.6	467.4
77.5°	322.7	277.2	246.2	214.6	201.2	191.5	158.0	151.4	137.4	134.9	127.1
80°	122.1	115.5	112.4	109.5	106.4	104.5	103.3	98.5	96.1	92.4	90.5
82.5°	88.2	85.7	80.2	78.5	76.0	72.3	71.7	68.6	66.9	63.2	62.0
85°	59.5	56.6	53.5	50.4	49.2	48.6	46.9	45.6	44.4	42.6	41.9
87.5°	40.1	37.0	33.5	32.2	31.6	32.2	32.8	31.6	31.0	29.8	29.2
90°	14.1	15.9	15.2	15.2	16.5	15.0	14.8	15.2	14.4	14.2	13.4
92.5°	6.5	6.4	6.3	6.2	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.6	9.5	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6
100°	24.8	24.4	24.1	23.8	23.5	23.1	22.7	22.3	21.9	21.5	21.1
102.5°	45.0	44.5	44.0	43.5	43.0	42.7	42.4	42.0	41.7	41.4	41.1
105°	68.5	68.0	67.5	67.0	66.5	66.1	65.7	65.3	64.9	64.4	64.0
107.5°	93.7	93.3	92.9	92.5	92.1	91.8	91.5	91.1	90.8	90.5	90.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	122.5	122.3	122.1	121.9	121.7	121.4	121.1	120.8	120.5	120.2	119.9	0°
112.5°	152.8	152.7	152.6	152.5	152.4	152.2	152.0	151.8	151.6	151.4	151.2	2.5°
115°	184.3	184.0	183.7	183.4	183.1	182.9	182.7	182.5	182.3	182.1	181.9	5°
117.5°	216.9	216.4	215.8	215.3	214.8	214.6	214.4	214.2	214.0	213.8	213.6	7.5°
120°	252.7	252.2	251.6	251.1	250.6	250.4	250.2	250.0	249.8	249.6	249.4	10°
122.5°	286.4	285.9	285.4	284.9	284.4	284.2	284.0	283.8	283.6	283.4	283.2	12.5°
125°	319.2	318.6	318.1	317.6	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.9	353.9	353.9	353.9	353.9	353.8	353.7	353.6	353.5	353.4	353.3	17.5°
130°	389.7	389.7	389.7	389.7	389.7	389.5	389.3	389.1	388.9	388.7	388.5	20°
132.5°	424.3	424.1	423.9	423.7	423.5	423.5	423.5	423.5	423.5	423.5	423.5	22.5°
135°	457.7	457.6	457.5	457.4	457.3	457.6	457.9	458.2	458.5	458.8	459.1	25°
137.5°	486.5	486.6	486.7	486.8	486.9	487.4	487.9	488.5	489.0	489.5	490.0	27.5°
140°	514.7	515.0	515.2	515.4	515.6	516.1	516.6	517.1	517.6	518.1	518.6	30°
142.5°	545.2	545.2	545.2	545.2	545.2	545.3	545.4	545.5	545.6	545.7	545.8	32.5°
145°	574.3	574.2	574.1	574.0	573.9	573.6	573.3	573.0	572.6	572.3	572.0	35°
147.5°	599.0	599.1	599.2	599.3	599.4	599.1	598.8	598.5	598.2	597.9	597.6	37.5°
150°	615.6	615.9	616.2	616.5	616.8	617.1	617.5	617.8	618.1	618.4	618.7	40°
152.5°	630.5	631.0	631.4	631.8	632.2	632.7	633.2	633.7	634.2	634.7	635.3	42.5°
155°	648.6	649.1	649.6	650.1	650.6	650.8	651.0	651.2	651.4	651.6	651.8	45°
157.5°	664.1	664.3	664.5	664.7	664.9	664.9	664.9	664.9	664.9	664.9	664.9	47.5°
160°	677.4	677.1	676.8	676.5	676.2	676.1	676.0	675.9	675.8	675.7	675.6	50°
162.5°	685.8	685.7	685.6	685.5	685.4	685.2	685.0	684.8	684.6	684.4	684.1	52.5°
165°	694.4	694.7	695.0	695.3	695.6	695.4	695.2	695.0	694.8	694.6	694.4	55°
167.5°	702.2	702.6	703.0	703.4	703.8	703.8	703.8	703.8	703.8	703.8	703.8	57.5°
170°	707.9	708.4	708.9	709.4	709.9	710.1	710.3	710.5	710.7	711.0	711.2	60°
172.5°	709.1	709.3	709.5	709.7	709.9	710.1	710.3	710.5	710.7	711.0	711.2	62.5°
175°	711.6	711.7	711.8	711.9	712.0	711.8	711.6	711.4	711.2	711.0	710.7	65°
177.5°	716.3	716.5	716.7	716.9	717.1	716.8	716.5	716.2	715.9	715.6	715.2	66°
180°	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°
												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-600-LED-E1-SL3-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	1077.1	110°	119.6
1080.7	1078.9	1079.5	1077.1	1076.5	1077.7	1078.3	1078.3	1076.5	1065.5	1052.8	112.5°	151.0
1064.9	1061.3	1060.7	1058.9	1055.8	1059.5	1057.6	1054.6	1051.0	1038.2	1013.2	115°	181.7
1035.7	1033.3	1030.3	1027.9	1026.0	1024.8	1024.2	1021.2	1014.5	990.7	948.8	117.5°	213.4
1007.8	1004.7	1001.1	995.6	993.2	989.6	989.6	982.2	977.4	947.7	885.6	120°	249.2
980.4	975.0	973.1	969.5	962.8	959.7	955.5	948.2	940.9	905.1	823.6	122.5°	282.9
959.7	954.3	946.4	944.0	936.7	930.0	924.5	914.8	906.8	859.5	758.6	125°	317.1
937.3	933.0	924.5	919.0	911.1	903.3	894.2	882.0	876.5	816.3	696.6	127.5°	353.2
919.0	909.3	899.6	894.8	885.1	875.9	866.7	852.2	841.3	773.8	631.0	130°	388.3
897.7	889.3	878.9	870.4	857.0	846.7	836.4	821.2	807.8	730.6	564.7	132.5°	423.5
883.2	871.0	860.1	850.4	835.1	823.0	808.4	792.0	778.7	689.3	491.7	135°	459.4
874.7	862.6	848.5	836.4	818.8	804.8	789.0	770.7	753.7	655.8	423.1	137.5°	490.5
872.3	857.6	843.1	827.9	809.7	792.0	773.1	754.9	733.0	623.6	348.3	140°	519.1
879.5	861.9	845.5	827.3	806.0	785.9	767.1	743.4	721.5	595.7	274.8	142.5°	545.9
899.6	878.3	859.5	839.4	815.1	793.2	770.7	744.0	719.6	576.2	210.3	145°	571.7
931.2	911.1	889.3	869.2	841.3	816.9	792.0	763.4	734.3	568.4	158.7	147.5°	597.3
995.0	968.3	945.8	924.5	892.3	867.4	838.8	804.1	771.3	575.6	132.5	150°	619.0
1084.4	1051.0	1030.3	1011.4	971.3	944.0	911.1	871.7	834.5	596.3	116.7	152.5°	635.8
1207.8	1182.2	1145.2	1115.9	1075.2	1044.8	1008.4	961.0	919.6	625.4	108.8	155°	652.0
1362.2	1328.7	1292.3	1262.5	1218.1	1165.2	1126.9	1069.8	1023.0	671.1	105.2	157.5°	664.9
1551.2	1511.1	1461.8	1436.9	1375.6	1334.2	1283.2	1221.7	1162.2	741.5	107.0	160°	675.5
1756.6	1713.4	1675.2	1627.8	1571.9	1525.6	1477.0	1412.0	1337.2	875.2	114.3	162.5°	683.9
1973.7	1945.7	1909.2	1847.9	1817.5	1759.1	1697.1	1625.4	1571.3	1049.1	131.9	165°	694.2
2289.7	2259.3	2255.1	2194.9	2148.7	2095.8	2047.2	1987.6	1923.8	1357.9	173.2	167.5°	703.8
2776.0	2744.4	2708.5	2661.7	2607.0	2541.3	2481.2	2401.0	2329.9	1667.3	192.7	170°	711.4
3064.1	3005.7	2941.3	2870.2	2790.6	2709.1	2628.3	2525.6	2422.2	1686.1	173.8	172.5°	711.4
3039.8	2967.5	2885.4	2788.8	2704.9	2604.5	2517.7	2385.1	2290.9	1501.4	141.6	175°	710.5
2949.8	2850.8	2773.5	2684.8	2579.7	2489.7	2397.9	2267.3	2159.7	1376.8	129.5	177.5°	714.9
2719.4	2635.0	2528.0	2442.9	2365.1	2257.6	2171.2	2049.0	1974.9	1193.8	116.1	180°	716.1
2173.7	2056.9	1966.3	1900.1	1812.0	1714.7	1638.2	1535.3	1469.8	790.2	100.2		
1266.1	1237.0	1135.5	1078.3	1024.8	945.8	885.1	835.8	749.4	382.9	88.8		
390.3	362.8	359.3	305.1	322.7	276.0	268.6	244.4	244.4	147.1	69.9		
124.6	122.1	117.3	110.6	108.2	108.2	105.2	104.5	99.6	79.0	52.3		
88.2	86.3	84.5	82.7	81.4	82.0	79.6	78.5	77.2	57.2	41.3		
60.8	58.9	55.3	55.3	54.1	53.5	54.1	51.7	51.0	40.1	34.7		
41.3	40.7	40.1	39.5	38.9	38.3	37.6	35.9	34.7	27.9	24.3		
27.3	23.1	22.5	19.4	18.8	18.2	17.0	18.2	20.0	20.0	15.8		
13.8	13.0	13.4	13.2	12.1	12.6	12.6	11.5	11.5	13.2	14.6		
6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2		
8.5	8.4	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.2		
20.7	20.3	19.8	19.4	19.4	19.4	19.4	19.4	19.4	19.4	23.5		
40.8	40.5	40.2	39.9	39.7	39.5	39.3	39.1	38.9	39.9	43.0		
63.6	63.2	62.8	62.4	62.4	62.4	62.4	62.4	62.4	62.4	66.5		
89.9	89.6	89.3	89.0	88.8	88.6	88.4	88.2	88.0	89.0	92.1		

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 IST-AF-600-LED-E1-SL3-ULG

REPORT NUMBER: P226950
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TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
119.3	119.0	118.7	118.9	119.1	119.3	119.5	119.7	118.7	121.7	0°	1077.1	1077.1
150.8	150.6	150.4	150.4	150.4	150.4	150.4	150.4	150.4	152.4	2.5°	1041.9	1032.1
181.5	181.3	181.1	181.3	181.5	181.7	181.9	182.1	181.1	183.1	5°	986.5	964.6
213.2	213.0	212.8	213.0	213.2	213.4	213.6	213.8	212.8	214.8	7.5°	911.8	869.2
249.0	248.8	248.6	248.6	248.6	248.6	248.6	248.6	248.6	250.6	10°	826.0	764.7
282.7	282.5	282.3	282.5	282.7	282.9	283.2	283.4	282.3	284.4	12.5°	737.3	658.9
317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°	654.7	550.7
353.1	353.0	352.9	353.3	353.7	354.1	354.6	355.0	352.9	353.9	17.5°	567.7	439.5
388.1	387.9	387.7	387.9	388.1	388.3	388.5	388.7	387.7	389.7	20°	484.5	331.8
423.5	423.5	423.5	423.7	423.9	424.1	424.3	424.5	423.5	423.5	22.5°	390.3	232.8
459.7	460.0	460.3	460.5	460.7	460.9	461.1	461.4	460.3	457.3	25°	286.3	169.0
491.0	491.5	492.0	492.2	492.4	492.7	492.9	493.1	492.0	486.9	27.5°	204.3	134.9
519.7	520.2	520.7	521.1	521.5	521.9	522.3	522.7	520.7	515.6	30°	152.5	113.6
546.1	546.2	546.3	546.7	547.1	547.5	547.9	548.3	546.3	545.2	32.5°	122.1	98.5
571.4	571.1	570.8	571.2	571.6	572.0	572.4	572.9	570.8	573.9	35°	103.9	89.3
597.0	596.7	596.4	596.8	597.2	597.6	598.0	598.4	596.4	599.4	37.5°	93.0	83.3
619.3	619.6	619.9	620.7	621.5	622.4	623.2	624.0	619.9	616.8	40°	87.0	80.2
636.3	636.8	637.3	638.3	639.3	640.4	641.4	642.4	637.3	632.2	42.5°	83.3	77.2
652.2	652.4	652.6	653.3	653.9	654.5	655.1	655.7	652.6	650.6	45°	81.4	75.4
664.9	664.9	664.9	665.9	667.0	668.0	669.0	670.0	664.9	664.9	47.5°	80.2	72.9
675.4	675.2	675.1	676.4	677.6	678.8	680.1	681.3	675.1	676.2	50°	79.0	72.9
683.7	683.5	683.3	684.6	685.8	687.0	688.2	689.5	683.3	685.4	52.5°	79.6	74.2
694.0	693.8	693.6	694.4	695.2	696.0	696.8	697.7	693.6	695.6	55°	82.7	74.2
703.8	703.8	703.8	705.0	706.2	707.5	708.7	709.9	703.8	703.8	57.5°	87.6	74.2
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	60°	91.1	75.4
711.6	711.8	712.0	713.0	714.0	715.0	716.1	717.1	712.0	709.9	62.5°	92.4	77.8
710.3	710.1	709.9	711.0	712.0	713.0	714.0	715.0	709.9	712.0	65°	91.1	79.0
714.6	714.3	714.0	714.8	715.7	716.5	717.3	718.1	714.0	717.1	66°	89.9	79.0
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	67.5°	88.2	77.8
										70°	83.9	72.9
										72.5°	75.4	65.7
										75°	64.4	52.9
										77.5°	52.3	42.6
										80°	38.9	32.2
										82.5°	28.5	25.0
										85°	20.0	17.6
										87.5°	12.2	10.9
										90°	12.3	10.2
										92.5°	7.2	7.2
										95°	8.2	7.2
										97.5°	10.2	12.3
										100°	26.6	29.7
										102.5°	48.1	51.1
										105°	71.6	73.7
										107.5°	96.2	97.2



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tinued):

135°	145°	155°	165°	175°	180°
1077.1	1077.1	1077.1	1077.1	1077.1	1077.1
1025.4	1024.8	1009.7	1006.6	996.3	1001.7
938.5	928.1	900.8	895.4	883.8	880.8
834.5	806.0	784.1	759.7	736.7	748.3
713.0	665.0	616.9	585.3	572.5	568.4
597.5	511.2	451.0	389.0	367.1	375.0
457.7	359.3	279.0	243.2	222.5	218.8
322.7	230.4	193.3	184.1	179.9	179.9
218.8	175.6	161.7	157.4	157.4	158.0
166.5	147.7	141.6	142.2	144.6	145.3
138.0	130.7	127.7	131.9	136.8	137.4
119.2	117.3	117.9	123.4	128.3	128.9
104.5	106.4	108.8	113.6	117.9	119.2
94.2	97.3	99.1	102.1	104.5	105.2
87.0	90.5	89.9	91.8	93.6	94.2
82.7	84.5	82.7	83.9	83.9	85.1
79.0	79.6	76.6	77.2	78.5	78.5
75.4	74.8	71.7	72.9	74.8	75.4
71.7	70.5	68.1	70.5	73.6	74.2
68.6	67.5	66.3	69.3	72.9	73.6
67.5	66.3	65.1	69.3	72.9	73.6
67.5	66.3	65.1	68.1	71.7	72.3
68.1	66.9	64.4	67.5	69.9	70.5
68.6	67.5	63.2	65.1	66.3	66.9
68.6	66.3	62.0	62.6	62.6	63.2
67.5	64.4	59.5	59.5	58.9	58.9
67.5	62.0	57.2	56.0	54.7	54.7
66.9	61.4	56.6	54.7	52.9	52.9
65.7	60.1	55.3	52.9	51.0	51.0
61.4	57.7	52.3	49.8	48.0	47.4
54.7	52.9	48.6	46.9	45.0	44.4
46.2	46.9	44.4	43.2	41.3	40.7
38.9	40.1	38.9	38.3	37.0	36.5
31.0	33.5	32.2	32.2	32.8	31.6
23.7	26.7	25.6	26.7	27.9	26.2
16.4	19.4	19.4	20.0	20.7	19.4
10.3	12.8	12.2	12.8	12.8	12.2
9.6	12.5	10.6	10.8	8.2	7.6
6.1	6.1	6.1	5.1	4.1	4.1
7.2	7.2	7.2	6.1	5.1	5.1
9.2	9.2	8.2	8.2	7.2	7.2
21.5	12.3	10.2	9.2	8.2	8.2
40.9	27.6	18.4	13.3	11.3	11.3
64.4	49.1	36.8	27.6	22.5	21.5
90.0	74.7	59.3	50.1	43.0	41.9

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	123.8	122.8	116.6
112.5°	153.4	151.4	146.3
115°	186.2	183.1	178.0
117.5°	219.9	215.8	209.7
120°	255.7	251.6	248.6
122.5°	289.5	285.4	283.4
125°	322.2	320.2	317.1
127.5°	353.9	352.9	347.8
130°	389.7	385.7	380.5
132.5°	425.5	420.4	414.3
135°	458.3	453.2	447.0
137.5°	485.9	483.9	478.7
140°	513.5	511.5	508.4
142.5°	545.2	539.1	537.0
145°	574.9	568.8	563.6
147.5°	598.4	593.3	588.2
150°	613.8	610.7	606.6
152.5°	628.1	625.0	624.0
155°	645.5	640.4	642.4
157.5°	662.9	658.8	659.8
160°	679.2	673.1	670.0
162.5°	686.4	682.3	678.2
165°	692.5	687.4	688.4
167.5°	699.7	693.6	700.7
170°	704.8	701.7	706.9
172.5°	707.9	704.8	705.8
175°	711.0	705.8	705.8
177.5°	715.0	709.9	711.0
180°	716.1	716.1	716.1



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145°	155°	165°	175°	180°
104.3	89.0	75.7	69.6	67.5
137.1	123.8	108.4	101.3	101.3
171.9	162.6	150.4	142.2	143.2
206.6	201.5	193.3	188.2	188.2
242.4	238.3	231.2	228.1	230.2
277.2	273.1	267.0	266.0	269.0
312.0	305.9	302.8	300.7	304.8
346.8	340.6	336.6	336.6	337.6
378.5	374.4	370.3	369.3	371.3
413.3	410.2	402.0	403.0	405.1
445.0	441.9	435.8	435.8	438.8
474.6	470.6	469.5	467.5	470.6
502.3	500.2	498.2	496.1	499.2
533.0	529.9	528.9	526.8	529.9
562.6	559.6	556.5	558.5	562.6
587.2	587.2	584.1	585.1	588.2
606.6	606.6	606.6	605.6	608.7
624.0	623.0	622.0	622.0	625.0
644.5	641.4	639.3	639.3	643.4
660.8	658.8	657.8	657.8	660.8
670.0	671.1	674.1	675.1	678.2
676.2	680.3	684.4	684.4	688.4
688.4	691.5	691.5	693.6	696.6
703.8	701.7	699.7	702.8	705.8
708.9	707.9	707.9	711.0	714.0
705.8	708.9	711.0	713.0	715.0
706.9	711.0	713.0	714.0	716.1
713.0	715.0	716.1	721.2	723.2
716.1	716.1	716.1	716.1	716.1

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