

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: P226951

Luminaire Tested: **IST-AF-600-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226951
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-SL3-8030-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) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4898.7 lumens
Efficiency: N/A
Efficacy: 97.2 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

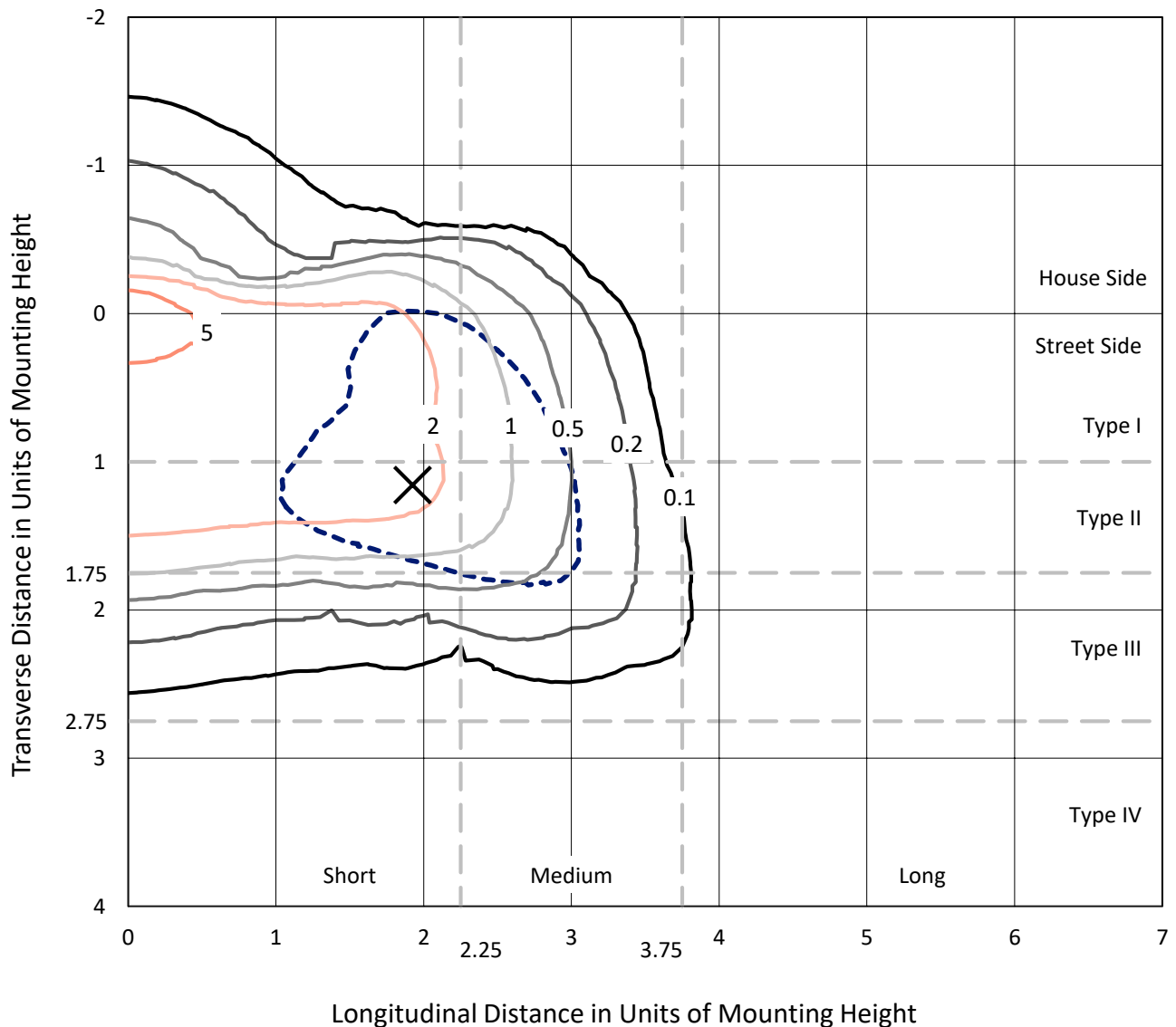


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

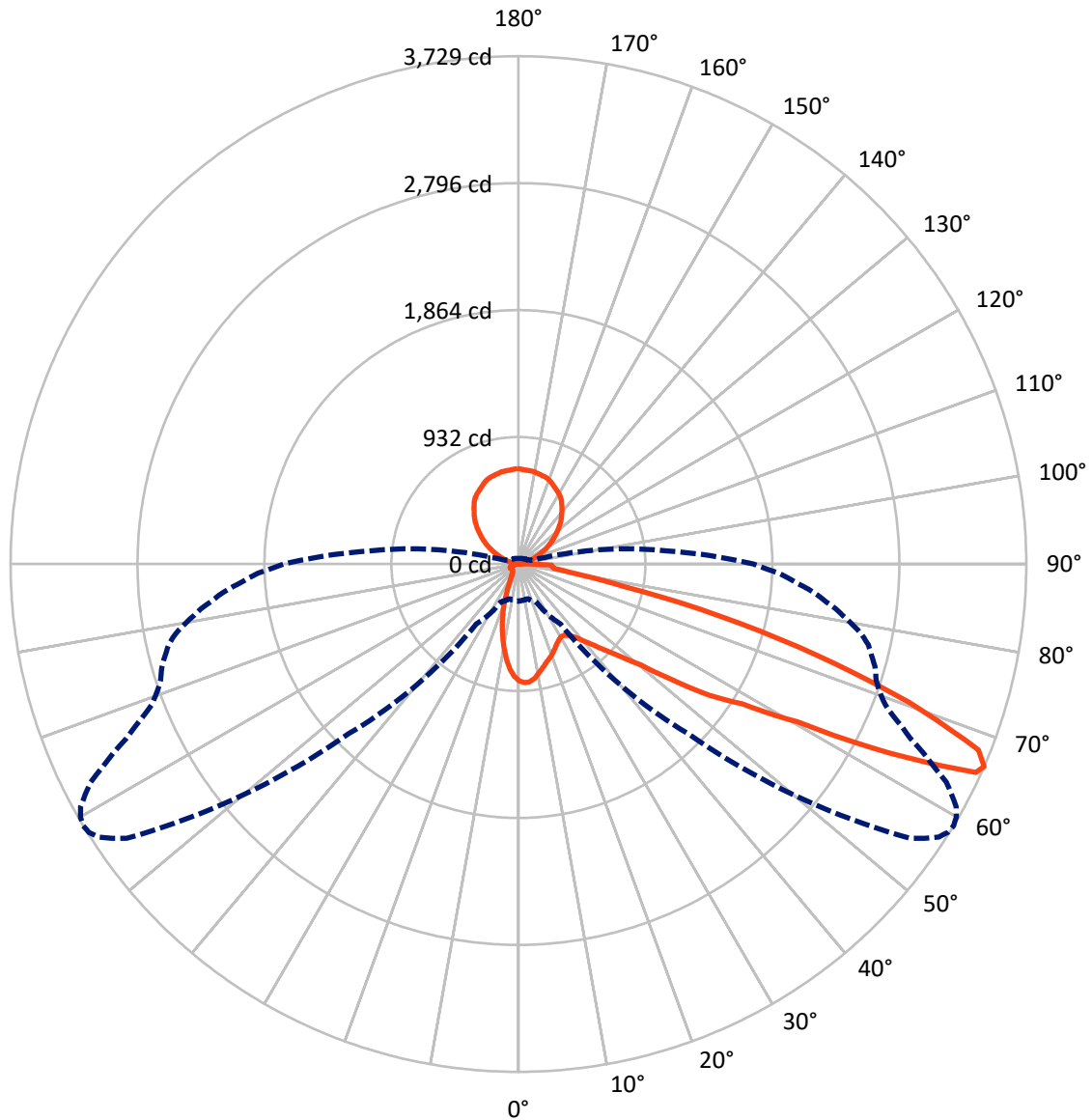


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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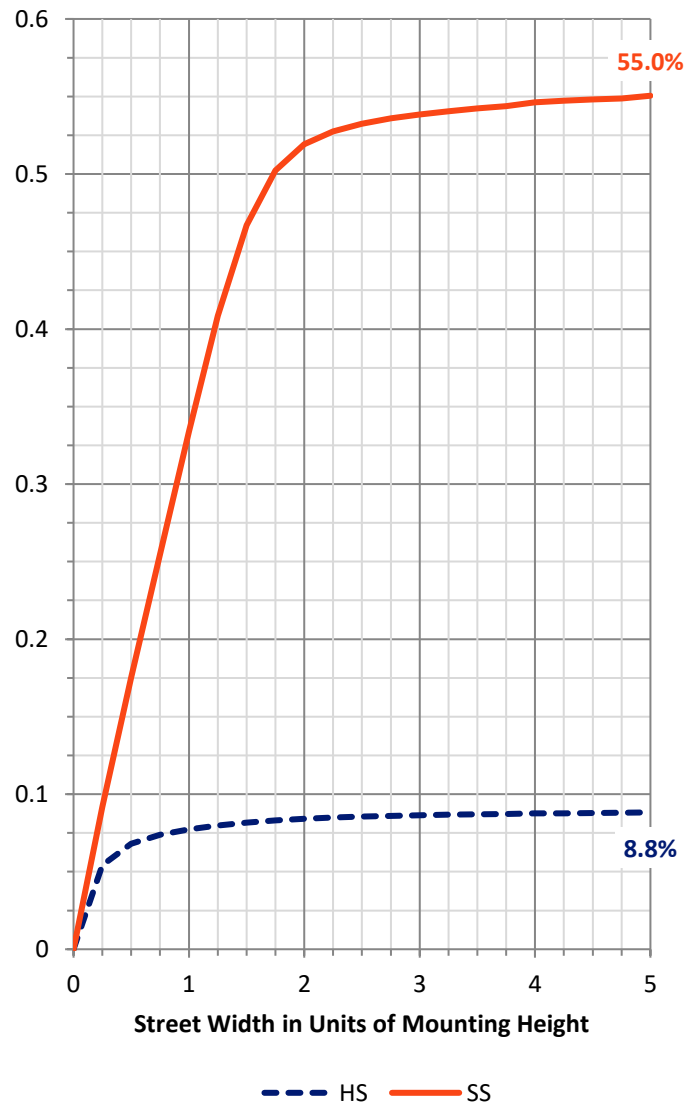
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	439.3	867.8	1307.1
	% Fixture	9.0	17.7	26.7
Street Side	Lumens	2723.0	868.7	3591.7
	% Fixture	55.6	17.7	73.3
Total	Lumens	3162.3	1736.5	4898.7
	% Fixture	64.6	35.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.5
10°-20°	154.7	3.2
20°-30°	194.1	4.0
30°-40°	265.5	5.4
40°-50°	427.1	8.7
50°-60°	742.2	15.2
60°-70°	901.8	18.4
70°-80°	336.4	6.9
80°-90°	67.2	1.4
90°-100°	10.6	0.2
100°-110°	57.4	1.2
110°-120°	166.1	3.4
120°-130°	273.2	5.6
130°-140°	336.8	6.9
140°-150°	344.6	7.0
150°-160°	290.3	5.9
160°-170°	191.2	3.9
170°-180°	66.3	1.4
0°-90°	3162.3	64.6
0°-180°	4898.7	100.0



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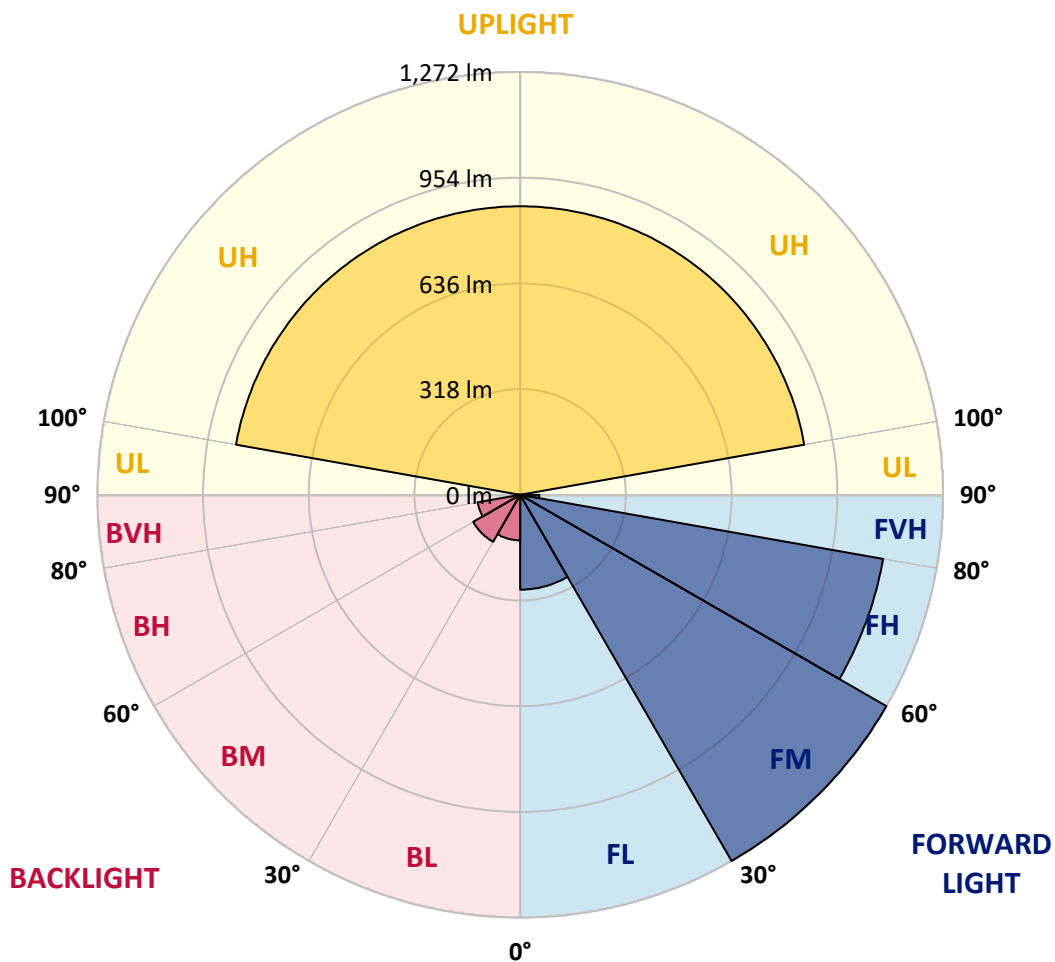
CATALOG NUMBER: IST-AF-600-LED-E1-SL3-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	285.2	5.8			
FM	(30°-60°)	1271.7	26.0			
FH	(60°-80°)	1108.4	22.6			G1/1800
FVH	(80°-90°)	57.6	1.2			G1/100
BL	(0°-30°)	136.8	2.8	B1/500		
BM	(30°-60°)	163.1	3.3	B0/220		
BH	(60°-80°)	129.7	2.6	B1/500		G1/500
BVH	(80°-90°)	9.6	0.2			G0/10
UL	(90°-100°)	10.6	0.2		U2/50	
UH	(100°-180°)	867.8	17.7		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°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	881.5	878.6	883.9	882.0	883.4	876.2	874.7	873.2	874.2	872.8	872.8
5°	860.6	859.2	865.5	868.9	871.8	870.8	870.3	870.3	870.8	867.4	867.9
7.5°	799.5	798.6	807.3	813.6	827.7	835.9	846.6	847.1	848.0	846.6	849.5
10°	734.6	737.5	745.2	755.4	776.3	788.9	809.2	813.1	814.6	815.1	815.5
12.5°	672.5	669.6	679.3	698.7	726.8	747.2	772.9	774.8	777.2	780.6	784.0
15°	617.2	620.6	628.4	648.8	678.3	706.9	740.4	742.3	747.2	750.1	754.9
17.5°	579.4	579.4	588.1	607.1	634.7	671.1	713.2	716.6	720.5	724.4	729.7
20°	560.5	560.5	563.9	575.1	599.3	634.2	685.1	689.0	695.8	700.1	707.4
22.5°	559.1	558.6	558.1	560.5	575.1	602.2	655.1	660.4	666.2	673.0	679.3
25°	574.6	576.0	570.2	566.3	567.8	580.4	626.4	629.4	640.5	644.9	652.6
27.5°	596.9	599.3	594.4	588.6	579.9	571.7	602.2	607.1	614.3	621.6	631.3
30°	628.9	628.4	627.9	624.0	607.1	581.4	594.9	598.3	604.6	610.4	618.7
32.5°	663.3	667.2	670.1	668.1	650.7	607.1	605.1	608.0	613.8	617.2	622.6
35°	707.9	709.8	721.0	721.0	703.5	653.1	633.7	636.1	639.1	640.5	644.4
37.5°	756.9	763.7	780.1	789.8	762.7	710.3	678.8	678.8	680.3	681.2	683.7
40°	813.6	823.3	846.1	864.5	847.1	781.6	738.0	742.3	740.9	738.9	744.3
42.5°	879.5	890.2	917.9	935.3	925.1	867.4	817.5	814.6	818.9	813.1	815.1
45°	956.2	964.4	992.5	1010.9	1019.2	972.6	921.7	915.9	915.9	903.3	908.6
47.5°	1025.0	1027.4	1054.6	1087.1	1113.7	1114.7	1042.9	1039.1	1029.9	1021.6	1019.7
50°	1089.0	1096.3	1113.7	1149.1	1204.9	1253.4	1209.7	1197.6	1187.4	1156.9	1166.1
52.5°	1200.0	1214.1	1225.3	1246.6	1312.5	1411.0	1464.8	1445.9	1443.4	1415.8	1409.5
55°	1220.9	1222.3	1259.2	1382.4	1537.5	1608.3	1711.6	1711.1	1718.9	1710.1	1701.9
57.5°	1122.9	1111.3	1172.9	1335.3	1647.1	2010.7	1979.2	1982.6	1972.4	1945.8	1937.5
60°	874.7	884.4	950.8	1157.9	1568.1	2270.6	2478.6	2417.1	2461.2	2391.8	2354.5
62.5°	492.1	481.0	526.1	743.8	1286.3	2284.2	3158.9	3165.7	3187.0	3148.2	3057.1
65°	317.6	312.7	308.4	376.3	770.9	1998.1	3535.2	3618.6	3668.5	3688.9	3690.3
66°	273.0	269.1	263.8	307.9	537.2	1760.5	3510.9	3600.1	3679.6	3717.5	3728.6
67.5°	232.3	226.4	225.5	255.0	373.8	1365.9	3279.6	3419.8	3490.1	3588.0	3641.3
70°	177.5	174.6	183.3	220.1	287.0	642.9	2613.4	2796.2	2917.4	2994.0	3043.5
72.5°	148.9	147.9	160.0	201.2	272.0	364.6	1829.4	2025.8	2152.3	2225.5	2293.4
75°	116.4	117.3	133.3	192.0	270.6	317.6	1062.8	1250.0	1323.7	1439.1	1527.3
77.5°	87.3	86.3	98.9	155.2	263.8	322.0	552.3	629.8	710.8	769.5	790.8
80°	61.1	62.1	70.8	106.7	205.6	331.2	344.3	362.2	379.2	398.1	402.0
82.5°	40.7	41.2	52.4	73.2	142.6	316.1	321.5	313.2	300.1	283.6	265.7
85°	24.7	25.7	37.3	49.5	110.5	286.1	332.6	310.8	290.9	269.1	247.3
87.5°	12.6	14.1	22.3	29.1	65.5	141.1	346.2	330.2	303.0	269.6	245.3
90°	8.4	8.4	11.8	15.3	21.1	35.6	94.3	85.7	46.7	82.3	44.6
92.5°	4.0	4.0	5.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0	7.0
95°	5.0	5.0	6.0	7.0	7.0	7.0	7.0	7.1	7.2	7.3	7.4
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.8	11.6	11.4	11.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	28.7	28.4	28.1	27.8
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	49.7	49.4	49.1	48.8
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.8	71.6	71.4	71.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.9	94.8	94.7	94.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.1	120.2	120.3	120.4
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	148.2	148.4	148.6	148.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	179.3	179.6	179.9	180.2
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	211.4	211.8	212.2	212.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	246.4	246.8	247.2	247.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	279.4	279.8	280.2	280.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	313.2	313.4	313.6	313.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.1	345.2	345.3	345.4
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	377.4	377.8	378.2	378.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	411.5	412.0	412.5	413.0
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	443.5	444.0	444.5	445.0
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	473.2	473.4	473.6	473.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	500.2	500.4	500.6	500.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	527.6	528.2	528.8	529.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	556.6	557.2	557.8	558.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	580.5	581.0	581.5	582.0
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	597.3	597.6	597.9	598.2
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	611.3	611.6	611.9	612.2
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	626.5	627.0	627.5	628.0
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	644.4	644.8	645.2	645.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	658.6	659.2	659.8	660.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	667.4	667.8	668.2	668.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	672.5	673.0	673.5	674.0
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	678.6	679.2	679.8	680.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	686.3	686.6	686.9	687.2
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	689.3	689.6	689.9	690.2
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	690.5	691.0	691.5	692.0
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	694.5	695.0	695.5	696.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	872.3	873.2	872.3	870.8	872.3	870.8	870.3	869.8	870.3	869.4	868.9
5°	867.9	868.9	868.9	866.0	865.5	867.4	864.5	865.5	864.5	863.5	861.6
7.5°	847.1	847.5	848.0	846.1	847.5	847.5	846.6	846.6	845.6	846.1	844.2
10°	818.0	819.9	821.8	820.9	820.4	824.8	822.8	824.3	824.3	822.8	823.3
12.5°	786.5	789.8	792.3	792.3	794.2	799.1	798.6	799.5	803.4	803.4	802.0
15°	757.4	760.8	764.6	767.5	771.4	774.8	777.2	781.1	783.1	783.1	785.5
17.5°	734.6	739.4	743.8	745.2	750.6	756.4	757.8	762.7	765.6	767.1	770.0
20°	712.3	717.6	722.9	727.8	732.6	739.4	742.8	745.7	750.6	753.5	757.8
22.5°	686.1	694.3	701.1	706.9	715.2	721.0	727.8	732.6	738.5	742.8	746.2
25°	661.4	672.5	681.7	687.5	698.7	706.9	715.2	722.5	729.7	736.0	740.9
27.5°	638.6	651.2	662.3	671.5	683.7	696.8	705.0	717.1	726.8	735.5	741.4
30°	627.4	638.1	649.7	660.4	672.5	689.0	702.6	718.1	730.2	741.4	750.1
32.5°	629.8	639.5	649.7	658.9	671.5	690.0	704.0	722.0	739.9	754.5	765.6
35°	649.2	658.0	664.8	673.0	684.1	698.2	713.2	732.1	754.5	773.8	788.4
37.5°	690.0	692.4	699.2	705.5	711.3	724.4	738.5	754.5	780.1	800.5	820.9
40°	740.4	746.7	753.0	755.9	762.7	770.9	777.2	794.2	817.0	843.7	866.0
42.5°	815.5	818.0	818.9	819.9	822.3	828.2	837.4	852.9	875.2	898.9	923.7
45°	899.9	902.8	905.7	907.2	903.8	907.2	916.9	924.2	946.0	968.3	999.8
47.5°	1016.8	1008.0	1003.7	1009.5	1006.6	1013.9	1018.2	1022.6	1048.8	1075.4	1102.1
50°	1166.6	1161.3	1154.5	1155.0	1160.3	1155.4	1158.3	1174.3	1183.1	1205.4	1240.8
52.5°	1406.1	1389.6	1363.9	1352.8	1359.1	1355.2	1356.7	1360.0	1354.2	1375.1	1405.1
55°	1701.9	1680.5	1663.6	1653.9	1618.0	1615.1	1591.3	1582.6	1563.7	1583.6	1576.8
57.5°	1912.8	1899.2	1890.5	1861.4	1844.9	1811.9	1802.2	1790.6	1764.4	1777.5	1789.2
60°	2320.1	2271.6	2255.1	2204.2	2187.2	2155.7	2115.5	2095.6	2082.0	2094.6	2086.9
62.5°	2999.9	2932.5	2919.4	2798.6	2769.1	2696.3	2620.7	2610.5	2567.9	2541.2	2534.9
65°	3663.6	3567.2	3494.9	3363.0	3273.8	3170.1	3054.7	2970.3	2883.5	2839.9	2782.2
66°	3713.1	3674.8	3602.1	3525.0	3395.0	3281.6	3150.7	3059.5	2962.0	2885.4	2836.0
67.5°	3628.7	3608.4	3582.7	3530.3	3448.9	3343.2	3219.0	3102.7	2985.3	2895.1	2816.1
70°	3067.3	3089.6	3118.7	3105.1	3058.5	3017.3	2907.7	2842.8	2754.5	2636.2	2587.7
72.5°	2315.2	2374.9	2354.5	2277.9	2242.0	2213.4	2173.7	2130.0	2003.5	1988.9	1931.7
75°	1489.5	1469.6	1482.7	1389.6	1326.1	1299.9	1205.4	1166.6	1071.6	1010.0	962.9
77.5°	785.0	746.2	716.1	634.2	575.5	541.1	495.0	440.7	357.3	352.5	276.4
80°	364.1	334.6	307.4	278.8	250.2	212.4	184.2	150.3	132.9	113.9	106.2
82.5°	247.3	228.4	211.9	193.0	171.2	145.0	125.1	106.2	90.7	81.5	74.2
85°	224.0	203.6	185.2	161.5	138.7	116.9	95.5	79.0	64.5	56.2	51.4
87.5°	217.7	192.5	173.1	147.4	125.1	102.8	82.4	64.0	49.9	40.7	34.9
90°	35.6	37.8	29.7	29.0	17.5	20.2	17.2	13.8	14.3	12.9	13.4
92.5°	7.0	7.0	7.0	7.0	7.0	7.0	6.9	6.8	6.7	6.6	6.5
95°	7.5	7.6	7.7	7.8	7.9	8.0	7.9	7.8	7.7	7.6	7.5
97.5°	11.0	10.8	10.6	10.4	10.2	10.0	9.9	9.8	9.7	9.6	9.5
100°	27.5	27.2	26.9	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.5
102.5°	48.5	48.2	47.9	47.6	47.3	47.0	46.5	46.0	45.5	45.0	44.5
105°	71.0	70.8	70.6	70.4	70.2	70.0	69.5	69.0	68.5	68.0	67.5
107.5°	94.5	94.4	94.3	94.2	94.1	94.0	93.6	93.2	92.8	92.4	92.0



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CATALOG NUMBER: IST-AF-600-LED-E1-SL3-8030-ULG

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
110°	120.5	120.6	120.7	120.8	120.9	121.0	120.8	120.6	120.4	120.2	120.0
112.5°	149.0	149.2	149.4	149.6	149.8	150.0	149.9	149.8	149.7	149.6	149.5
115°	180.5	180.8	181.1	181.4	181.7	182.0	181.7	181.4	181.1	180.8	180.5
117.5°	213.0	213.4	213.8	214.2	214.6	215.0	214.5	214.0	213.5	213.0	212.5
120°	248.0	248.4	248.8	249.2	249.6	250.0	249.5	249.0	248.5	248.0	247.5
122.5°	281.0	281.4	281.8	282.2	282.6	283.0	282.5	282.0	281.5	281.0	280.5
125°	314.0	314.2	314.4	314.6	314.8	315.0	314.5	314.0	313.5	313.0	312.5
127.5°	345.5	345.6	345.7	345.8	345.9	346.0	346.0	346.0	346.0	346.0	346.0
130°	379.0	379.4	379.8	380.2	380.6	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	413.5	414.0	414.5	415.0	415.5	416.0	415.8	415.6	415.4	415.2	415.0
135°	445.5	446.0	446.5	447.0	447.5	448.0	447.9	447.8	447.7	447.6	447.5
137.5°	474.0	474.2	474.4	474.6	474.8	475.0	475.1	475.2	475.3	475.4	475.5
140°	501.0	501.2	501.4	501.6	501.8	502.0	502.2	502.4	502.6	502.8	503.0
142.5°	530.0	530.6	531.2	531.8	532.4	533.0	533.0	533.0	533.0	533.0	533.0
145°	559.0	559.6	560.2	560.8	561.4	562.0	561.9	561.8	561.7	561.6	561.5
147.5°	582.5	583.0	583.5	584.0	584.5	585.0	585.1	585.2	585.3	585.4	585.5
150°	598.5	598.8	599.1	599.4	599.7	600.0	600.3	600.6	600.9	601.2	601.5
152.5°	612.5	612.8	613.1	613.4	613.7	614.0	614.4	614.8	615.2	615.6	616.0
155°	628.5	629.0	629.5	630.0	630.5	631.0	631.5	632.0	632.5	633.0	633.5
157.5°	646.0	646.4	646.8	647.2	647.6	648.0	648.2	648.4	648.6	648.8	649.0
160°	661.0	661.6	662.2	662.8	663.4	664.0	663.7	663.4	663.1	662.8	662.5
162.5°	669.0	669.4	669.8	670.2	670.6	671.0	670.9	670.8	670.7	670.6	670.5
165°	674.5	675.0	675.5	676.0	676.5	677.0	677.3	677.6	677.9	678.2	678.5
167.5°	681.0	681.6	682.2	682.8	683.4	684.0	684.4	684.8	685.2	685.6	686.0
170°	687.5	687.8	688.1	688.4	688.7	689.0	689.5	690.0	690.5	691.0	691.5
172.5°	690.5	690.8	691.1	691.4	691.7	692.0	692.2	692.4	692.6	692.8	693.0
175°	692.5	693.0	693.5	694.0	694.5	695.0	695.1	695.2	695.3	695.4	695.5
177.5°	696.5	697.0	697.5	698.0	698.5	699.0	699.2	699.4	699.6	699.8	700.0
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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CATALOG NUMBER: IST-AF-600-LED-E1-SL3-8030-ULG

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°
0°	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2
2.5°	867.9	866.5	867.9	867.4	865.5	866.0	866.5	864.5	863.5	863.5	863.1
5°	860.2	859.2	860.2	859.7	856.8	856.3	856.3	854.8	852.9	851.4	850.5
7.5°	841.7	842.7	842.2	840.8	839.3	839.3	837.8	834.5	832.5	830.6	828.6
10°	820.9	820.9	821.4	820.9	818.5	817.5	815.5	813.6	814.1	809.2	805.4
12.5°	802.5	802.5	802.0	801.0	799.5	799.1	799.1	793.2	791.8	790.3	786.0
15°	785.0	786.0	786.0	786.0	783.5	783.5	781.1	777.2	777.2	772.9	768.5
17.5°	771.4	772.9	772.4	772.9	773.4	770.5	766.1	763.7	760.8	758.3	752.5
20°	759.8	760.8	761.2	761.2	759.8	757.8	754.0	750.1	748.1	743.3	736.0
22.5°	749.1	751.1	751.5	751.5	749.6	748.1	744.3	738.5	734.6	728.8	722.0
25°	744.8	747.2	745.7	746.7	744.8	741.4	736.0	731.2	725.4	718.1	710.8
27.5°	746.2	749.6	748.6	748.1	745.7	743.3	736.5	730.7	723.9	715.2	706.0
30°	754.9	760.8	758.3	756.4	755.9	750.1	743.8	735.5	727.8	717.6	706.9
32.5°	771.4	774.3	774.8	773.4	770.9	766.1	757.4	746.7	738.0	725.8	713.2
35°	798.6	801.5	800.5	800.5	798.1	790.3	779.7	769.0	756.9	743.3	730.2
37.5°	836.4	841.7	840.8	838.8	835.9	826.7	818.5	805.4	791.8	773.8	758.8
40°	883.9	892.2	899.4	898.0	891.2	882.9	875.2	860.2	846.6	826.7	810.2
42.5°	947.9	959.1	968.3	975.1	972.2	961.5	947.9	941.6	922.2	901.9	884.9
45°	1029.9	1053.1	1061.4	1069.6	1069.6	1062.8	1059.9	1047.3	1026.9	999.8	983.8
47.5°	1138.0	1169.0	1178.2	1192.3	1200.5	1193.3	1187.9	1166.6	1153.0	1115.7	1111.8
50°	1269.4	1300.4	1325.6	1342.1	1339.7	1346.0	1333.4	1321.3	1302.4	1271.8	1261.1
52.5°	1437.1	1461.9	1484.7	1494.4	1504.5	1503.1	1500.2	1491.9	1468.2	1451.7	1424.5
55°	1609.3	1629.6	1657.3	1673.3	1686.4	1683.9	1672.8	1652.9	1657.3	1622.8	1607.8
57.5°	1805.2	1827.5	1857.5	1872.6	1878.4	1907.9	1900.7	1898.3	1890.0	1877.9	1862.4
60°	2142.1	2148.4	2173.2	2211.0	2257.5	2248.3	2260.0	2267.7	2273.5	2246.4	2244.4
62.5°	2543.6	2551.4	2572.7	2580.5	2587.2	2588.2	2572.7	2572.7	2546.0	2511.1	2484.0
65°	2762.8	2746.8	2732.2	2724.0	2706.0	2690.0	2666.8	2635.2	2590.2	2536.3	2487.8
66°	2794.3	2761.8	2742.9	2722.0	2693.4	2663.9	2636.2	2593.1	2540.2	2476.2	2412.2
67.5°	2763.7	2719.1	2675.0	2644.5	2604.7	2551.4	2502.9	2452.5	2402.5	2314.8	2255.1
70°	2484.9	2431.6	2383.1	2316.2	2253.2	2200.8	2117.4	2029.6	1957.4	1865.3	1806.6
72.5°	1845.4	1782.4	1719.3	1625.3	1533.6	1520.1	1415.3	1312.0	1256.8	1182.6	1122.9
75°	911.5	832.0	719.1	668.6	595.4	559.5	539.7	465.0	447.0	373.8	372.9
77.5°	257.5	221.1	196.4	171.2	160.5	152.7	126.1	120.7	109.6	107.6	101.3
80°	97.5	92.1	89.7	87.3	84.9	83.4	82.4	78.5	76.6	73.7	72.2
82.5°	70.3	68.4	64.0	62.5	60.6	57.7	57.2	54.8	53.3	50.4	49.5
85°	47.5	45.1	42.7	40.2	39.3	38.8	37.3	36.4	35.4	33.9	33.5
87.5°	32.0	29.6	26.7	25.7	25.2	25.7	26.2	25.2	24.7	23.8	23.3
90°	12.9	14.3	13.8	13.8	14.8	13.6	13.4	13.7	13.0	12.8	12.2
92.5°	6.4	6.3	6.2	6.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.4	7.3	7.2	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	9.4	9.3	9.2	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4
100°	24.2	23.9	23.6	23.3	23.0	22.6	22.2	21.8	21.4	21.0	20.6
102.5°	44.0	43.5	43.0	42.5	42.0	41.7	41.4	41.1	40.8	40.5	40.2
105°	67.0	66.5	66.0	65.5	65.0	64.6	64.2	63.8	63.4	63.0	62.6
107.5°	91.6	91.2	90.8	90.4	90.0	89.7	89.4	89.1	88.8	88.5	88.2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	71°	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	
110°	119.8	119.6	119.4	119.2	119.0	118.7	118.4	118.1	117.8	117.5	117.2	0°
112.5°	149.4	149.3	149.2	149.1	149.0	148.8	148.6	148.4	148.2	148.0	147.8	2.5°
115°	180.2	179.9	179.6	179.3	179.0	178.8	178.6	178.4	178.2	178.0	177.8	5°
117.5°	212.0	211.5	211.0	210.5	210.0	209.8	209.6	209.4	209.2	209.0	208.8	7.5°
120°	247.0	246.5	246.0	245.5	245.0	244.8	244.6	244.4	244.2	244.0	243.8	10°
122.5°	280.0	279.5	279.0	278.5	278.0	277.8	277.6	277.4	277.2	277.0	276.8	12.5°
125°	312.0	311.5	311.0	310.5	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	346.0	346.0	346.0	346.0	346.0	345.9	345.8	345.7	345.6	345.5	345.4	17.5°
130°	381.0	381.0	381.0	381.0	381.0	380.8	380.6	380.4	380.2	380.0	379.8	20°
132.5°	414.8	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.0	414.0	22.5°
135°	447.4	447.3	447.2	447.1	447.0	447.3	447.6	447.9	448.2	448.5	448.8	25°
137.5°	475.6	475.7	475.8	475.9	476.0	476.5	477.0	477.5	478.0	478.5	479.0	27.5°
140°	503.2	503.4	503.6	503.8	504.0	504.5	505.0	505.5	506.0	506.5	507.0	30°
142.5°	533.0	533.0	533.0	533.0	533.0	533.1	533.2	533.3	533.4	533.5	533.6	32.5°
145°	561.4	561.3	561.2	561.1	561.0	560.7	560.4	560.1	559.8	559.5	559.2	35°
147.5°	585.6	585.7	585.8	585.9	586.0	585.7	585.4	585.1	584.8	584.5	584.2	37.5°
150°	601.8	602.1	602.4	602.7	603.0	603.3	603.6	603.9	604.2	604.5	604.8	40°
152.5°	616.4	616.8	617.2	617.6	618.0	618.5	619.0	619.5	620.0	620.5	621.0	42.5°
155°	634.0	634.5	635.0	635.5	636.0	636.2	636.4	636.6	636.8	637.0	637.2	45°
157.5°	649.2	649.4	649.6	649.8	650.0	650.0	650.0	650.0	650.0	650.0	650.0	47.5°
160°	662.2	661.9	661.6	661.3	661.0	660.9	660.8	660.7	660.6	660.5	660.4	50°
162.5°	670.4	670.3	670.2	670.1	670.0	669.8	669.6	669.4	669.2	669.0	668.8	52.5°
165°	678.8	679.1	679.4	679.7	680.0	679.8	679.6	679.4	679.2	679.0	678.8	55°
167.5°	686.4	686.8	687.2	687.6	688.0	688.0	688.0	688.0	688.0	688.0	688.0	57.5°
170°	692.0	692.5	693.0	693.5	694.0	694.2	694.4	694.6	694.8	695.0	695.2	60°
172.5°	693.2	693.4	693.6	693.8	694.0	694.2	694.4	694.6	694.8	695.0	695.2	62.5°
175°	695.6	695.7	695.8	695.9	696.0	695.8	695.6	695.4	695.2	695.0	694.8	65°
177.5°	700.2	700.4	700.6	700.8	701.0	700.7	700.4	700.1	699.8	699.5	699.2	66°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	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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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82°	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	82°	
859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	859.2	110°	116.9
862.1	860.6	861.1	859.2	858.7	859.7	860.2	860.2	858.7	850.0	839.8	112.5°	147.6
849.5	846.6	846.1	844.6	842.2	845.1	843.7	841.2	838.3	828.2	808.3	115°	177.6
826.2	824.3	821.8	819.9	818.5	817.5	817.0	814.6	809.2	790.3	756.9	117.5°	208.6
803.9	801.5	798.6	794.2	792.3	789.4	789.4	783.5	779.7	755.9	706.4	120°	243.6
782.1	777.7	776.3	773.4	768.0	765.6	762.2	756.4	750.6	722.0	657.0	122.5°	276.6
765.6	761.2	754.9	753.0	747.2	741.8	737.5	729.7	723.4	685.6	605.1	125°	310.0
747.7	744.3	737.5	733.1	726.8	720.5	713.2	703.5	699.2	651.2	555.7	127.5°	345.3
733.1	725.4	717.6	713.7	706.0	698.7	691.4	679.8	671.1	617.2	503.3	130°	379.6
716.1	709.4	701.1	694.3	683.7	675.4	667.2	655.1	644.4	582.8	450.4	132.5°	414.0
704.5	694.8	686.1	678.3	666.2	656.5	644.9	631.8	621.1	549.8	392.3	135°	449.1
697.7	688.0	676.9	667.2	653.1	642.0	629.4	614.8	601.2	523.2	337.5	137.5°	479.5
695.8	684.1	672.5	660.4	645.8	631.8	616.7	602.2	584.7	497.5	277.8	140°	507.5
701.6	687.5	674.4	659.9	642.9	626.9	611.9	593.0	575.5	475.2	219.2	142.5°	533.7
717.6	700.6	685.6	669.6	650.2	632.8	614.8	593.5	574.1	459.7	167.8	145°	558.9
742.8	726.8	709.4	693.4	671.1	651.7	631.8	609.0	585.7	453.3	126.6	147.5°	583.9
793.7	772.4	754.5	737.5	711.8	691.9	669.1	641.5	615.3	459.2	105.7	150°	605.1
865.0	838.3	821.8	806.8	774.8	753.0	726.8	695.3	665.7	475.7	93.1	152.5°	621.5
963.4	943.1	913.5	890.2	857.7	833.5	804.4	766.6	733.6	498.9	86.8	155°	637.4
1086.6	1059.9	1030.8	1007.1	971.7	929.5	898.9	853.4	816.0	535.3	83.9	157.5°	650.0
1237.4	1205.4	1166.1	1146.2	1097.3	1064.3	1023.6	974.6	927.1	591.5	85.3	160°	660.3
1401.3	1366.8	1336.3	1298.5	1253.9	1217.0	1178.2	1126.3	1066.7	698.2	91.2	162.5°	668.6
1574.4	1552.1	1523.0	1474.0	1449.7	1403.2	1353.7	1296.5	1253.4	836.9	105.2	165°	678.6
1826.5	1802.2	1798.9	1750.9	1714.0	1671.8	1633.0	1585.5	1534.6	1083.2	138.2	167.5°	688.0
2214.4	2189.2	2160.6	2123.2	2079.6	2027.2	1979.2	1915.2	1858.5	1330.0	153.7	170°	695.4
2444.2	2397.7	2346.3	2289.5	2226.0	2161.0	2096.6	2014.6	1932.2	1345.0	138.7	172.5°	695.4
2424.8	2367.1	2301.7	2224.6	2157.7	2077.7	2008.3	1902.6	1827.5	1197.6	113.0	175°	694.6
2353.1	2274.0	2212.4	2141.7	2057.8	1986.0	1912.8	1808.6	1722.7	1098.2	103.3	177.5°	698.9
2169.3	2101.9	2016.6	1948.7	1886.6	1800.8	1731.9	1634.5	1575.3	952.3	92.6	180°	700.0
1733.9	1640.8	1568.5	1515.7	1445.4	1367.8	1306.7	1224.8	1172.4	630.3	80.0		
1010.0	986.7	905.7	860.2	817.5	754.5	706.0	666.7	597.8	305.5	70.8		
311.3	289.5	286.6	243.4	257.5	220.1	214.3	194.9	194.9	117.3	55.8		
99.4	97.5	93.6	88.2	86.3	86.3	83.9	83.4	79.5	63.0	41.7		
70.3	68.9	67.4	65.9	65.0	65.5	63.5	62.5	61.6	45.6	33.0		
48.5	47.0	44.1	44.1	43.2	42.7	43.2	41.2	40.7	32.0	27.6		
33.0	32.5	32.0	31.5	31.0	30.5	30.1	28.6	27.6	22.3	19.4		
21.8	18.4	17.9	15.5	15.0	14.5	13.6	14.5	16.0	16.0	12.6		
12.4	11.8	12.0	11.8	10.9	11.4	11.4	10.4	10.4	11.8	13.4		
6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
8.3	8.2	8.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.0		
20.2	19.8	19.4	19.0	19.0	19.0	19.0	19.0	19.0	19.0	23.0		
39.9	39.6	39.3	39.0	38.8	38.6	38.4	38.2	38.0	39.0	42.0		
62.2	61.8	61.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	65.0		
87.9	87.6	87.3	87.0	86.8	86.6	86.4	86.2	86.0	87.0	90.0		

'226951
 IST-AF-600-LED-E1-SL3-8030-ULG

REPORT NUMBER: P226951
 CATALOG NUMBER: IST-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

83°	84°	85°	86°	87°	88°	89°	90°	95°	105°		115°	125°
116.6	116.3	116.0	116.2	116.4	116.6	116.8	117.0	116.0	119.0	0°	859.2	859.2
147.4	147.2	147.0	147.0	147.0	147.0	147.0	147.0	147.0	149.0	2.5°	831.1	823.3
177.4	177.2	177.0	177.2	177.4	177.6	177.8	178.0	177.0	179.0	5°	786.9	769.5
208.4	208.2	208.0	208.2	208.4	208.6	208.8	209.0	208.0	210.0	7.5°	727.3	693.4
243.4	243.2	243.0	243.0	243.0	243.0	243.0	243.0	243.0	245.0	10°	658.9	610.0
276.4	276.2	276.0	276.2	276.4	276.6	276.8	277.0	276.0	278.0	12.5°	588.1	525.6
310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°	522.2	439.3
345.2	345.1	345.0	345.4	345.8	346.2	346.6	347.0	345.0	346.0	17.5°	452.9	350.6
379.4	379.2	379.0	379.2	379.4	379.6	379.8	380.0	379.0	381.0	20°	386.4	264.7
414.0	414.0	414.0	414.2	414.4	414.6	414.8	415.0	414.0	414.0	22.5°	311.3	185.7
449.4	449.7	450.0	450.2	450.4	450.6	450.8	451.0	450.0	447.0	25°	228.4	134.8
480.0	480.5	481.0	481.2	481.4	481.6	481.8	482.0	481.0	476.0	27.5°	162.9	107.6
508.0	508.5	509.0	509.4	509.8	510.2	510.6	511.0	509.0	504.0	30°	121.7	90.7
533.8	533.9	534.0	534.4	534.8	535.2	535.6	536.0	534.0	533.0	32.5°	97.5	78.5
558.6	558.3	558.0	558.4	558.8	559.2	559.6	560.0	558.0	561.0	35°	82.9	71.3
583.6	583.3	583.0	583.4	583.8	584.2	584.6	585.0	583.0	586.0	37.5°	74.2	66.4
605.4	605.7	606.0	606.8	607.6	608.4	609.2	610.0	606.0	603.0	40°	69.3	64.0
622.0	622.5	623.0	624.0	625.0	626.0	627.0	628.0	623.0	618.0	42.5°	66.4	61.6
637.6	637.8	638.0	638.6	639.2	639.8	640.4	641.0	638.0	636.0	45°	65.0	60.1
650.0	650.0	650.0	651.0	652.0	653.0	654.0	655.0	650.0	650.0	47.5°	64.0	58.2
660.2	660.1	660.0	661.2	662.4	663.6	664.8	666.0	660.0	661.0	50°	63.0	58.2
668.4	668.2	668.0	669.2	670.4	671.6	672.8	674.0	668.0	670.0	52.5°	63.5	59.2
678.4	678.2	678.0	678.8	679.6	680.4	681.2	682.0	678.0	680.0	55°	65.9	59.2
688.0	688.0	688.0	689.2	690.4	691.6	692.8	694.0	688.0	688.0	57.5°	69.8	59.2
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	60°	72.7	60.1
695.6	695.8	696.0	697.0	698.0	699.0	700.0	701.0	696.0	694.0	62.5°	73.7	62.1
694.4	694.2	694.0	695.0	696.0	697.0	698.0	699.0	694.0	696.0	65°	72.7	63.0
698.6	698.3	698.0	698.8	699.6	700.4	701.2	702.0	698.0	701.0	66°	71.8	63.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	67.5°	70.3	62.1
										70°	66.9	58.2
										72.5°	60.1	52.4
										75°	51.4	42.2
										77.5°	41.7	33.9
										80°	31.0	25.7
										82.5°	22.8	19.9
										85°	16.0	14.1
										87.5°	9.7	8.7
										90°	11.4	9.4
										92.5°	7.0	7.0
										95°	8.0	7.0
										97.5°	10.0	12.0
										100°	26.0	29.0
										102.5°	47.0	50.0
										105°	70.0	72.0
										107.5°	94.0	95.0



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tinued):

135°	145°	155°	165°	175°	180°
859.2	859.2	859.2	859.2	859.2	859.2
818.0	817.5	805.4	802.9	794.7	799.1
748.6	740.4	718.6	714.2	705.0	702.6
665.7	642.9	625.5	606.1	587.7	596.9
568.7	530.4	492.1	466.9	456.7	453.3
476.6	407.8	359.8	310.3	292.9	299.2
365.1	286.6	222.6	193.9	177.5	174.6
257.5	183.8	154.2	146.9	143.5	143.5
174.6	140.1	129.0	125.6	125.6	126.1
132.9	117.8	113.0	113.5	115.4	115.9
110.1	104.2	101.8	105.2	109.1	109.6
95.0	93.6	94.1	98.4	102.3	102.8
83.4	84.9	86.8	90.7	94.1	95.0
75.2	77.6	79.0	81.5	83.4	83.9
69.3	72.2	71.8	73.2	74.7	75.2
65.9	67.4	65.9	66.9	66.9	67.9
63.0	63.5	61.1	61.6	62.5	62.5
60.1	59.6	57.2	58.2	59.6	60.1
57.2	56.2	54.3	56.2	58.7	59.2
54.8	53.8	52.9	55.3	58.2	58.7
53.8	52.9	51.9	55.3	58.2	58.7
53.8	52.9	51.9	54.3	57.2	57.7
54.3	53.3	51.4	53.8	55.8	56.2
54.8	53.8	50.4	51.9	52.9	53.3
54.8	52.9	49.5	49.9	49.9	50.4
53.8	51.4	47.5	47.5	47.0	47.0
53.8	49.5	45.6	44.6	43.6	43.6
53.3	49.0	45.1	43.6	42.2	42.2
52.4	48.0	44.1	42.2	40.7	40.7
49.0	46.1	41.7	39.8	38.3	37.8
43.6	42.2	38.8	37.3	35.9	35.4
36.8	37.3	35.4	34.4	33.0	32.5
31.0	32.0	31.0	30.5	29.6	29.1
24.7	26.7	25.7	25.7	26.2	25.2
18.9	21.3	20.4	21.3	22.3	20.8
13.1	15.5	15.5	16.0	16.5	15.5
8.2	10.2	9.7	10.2	10.2	9.7
8.9	11.4	9.9	9.9	7.4	6.9
6.0	6.0	6.0	5.0	4.0	4.0
7.0	7.0	7.0	6.0	5.0	5.0
9.0	9.0	8.0	8.0	7.0	7.0
21.0	12.0	10.0	9.0	8.0	8.0
40.0	27.0	18.0	13.0	11.0	11.0
63.0	48.0	36.0	27.0	22.0	21.0
88.0	73.0	58.0	49.0	42.0	41.0

CANDELA DISTRIBUTION (continued):

	115°	125°	135°
110°	121.0	120.0	114.0
112.5°	150.0	148.0	143.0
115°	182.0	179.0	174.0
117.5°	215.0	211.0	205.0
120°	250.0	246.0	243.0
122.5°	283.0	279.0	277.0
125°	315.0	313.0	310.0
127.5°	346.0	345.0	340.0
130°	381.0	377.0	372.0
132.5°	416.0	411.0	405.0
135°	448.0	443.0	437.0
137.5°	475.0	473.0	468.0
140°	502.0	500.0	497.0
142.5°	533.0	527.0	525.0
145°	562.0	556.0	551.0
147.5°	585.0	580.0	575.0
150°	600.0	597.0	593.0
152.5°	614.0	611.0	610.0
155°	631.0	626.0	628.0
157.5°	648.0	644.0	645.0
160°	664.0	658.0	655.0
162.5°	671.0	667.0	663.0
165°	677.0	672.0	673.0
167.5°	684.0	678.0	685.0
170°	689.0	686.0	691.0
172.5°	692.0	689.0	690.0
175°	695.0	690.0	690.0
177.5°	699.0	694.0	695.0
180°	700.0	700.0	700.0



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145°	155°	165°	175°	180°
102.0	87.0	74.0	68.0	66.0
134.0	121.0	106.0	99.0	99.0
168.0	159.0	147.0	139.0	140.0
202.0	197.0	189.0	184.0	184.0
237.0	233.0	226.0	223.0	225.0
271.0	267.0	261.0	260.0	263.0
305.0	299.0	296.0	294.0	298.0
339.0	333.0	329.0	329.0	330.0
370.0	366.0	362.0	361.0	363.0
404.0	401.0	393.0	394.0	396.0
435.0	432.0	426.0	426.0	429.0
464.0	460.0	459.0	457.0	460.0
491.0	489.0	487.0	485.0	488.0
521.0	518.0	517.0	515.0	518.0
550.0	547.0	544.0	546.0	550.0
574.0	574.0	571.0	572.0	575.0
593.0	593.0	593.0	592.0	595.0
610.0	609.0	608.0	608.0	611.0
630.0	627.0	625.0	625.0	629.0
646.0	644.0	643.0	643.0	646.0
655.0	656.0	659.0	660.0	663.0
661.0	665.0	669.0	669.0	673.0
673.0	676.0	676.0	678.0	681.0
688.0	686.0	684.0	687.0	690.0
693.0	692.0	692.0	695.0	698.0
690.0	693.0	695.0	697.0	699.0
691.0	695.0	697.0	698.0	700.0
697.0	699.0	700.0	705.0	707.0
700.0	700.0	700.0	700.0	700.0

(END OF REPORT)