

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: P226308

Luminaire Tested: **IST-AF-600-LED-E1-T2-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-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-T2-7050-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5829.7 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

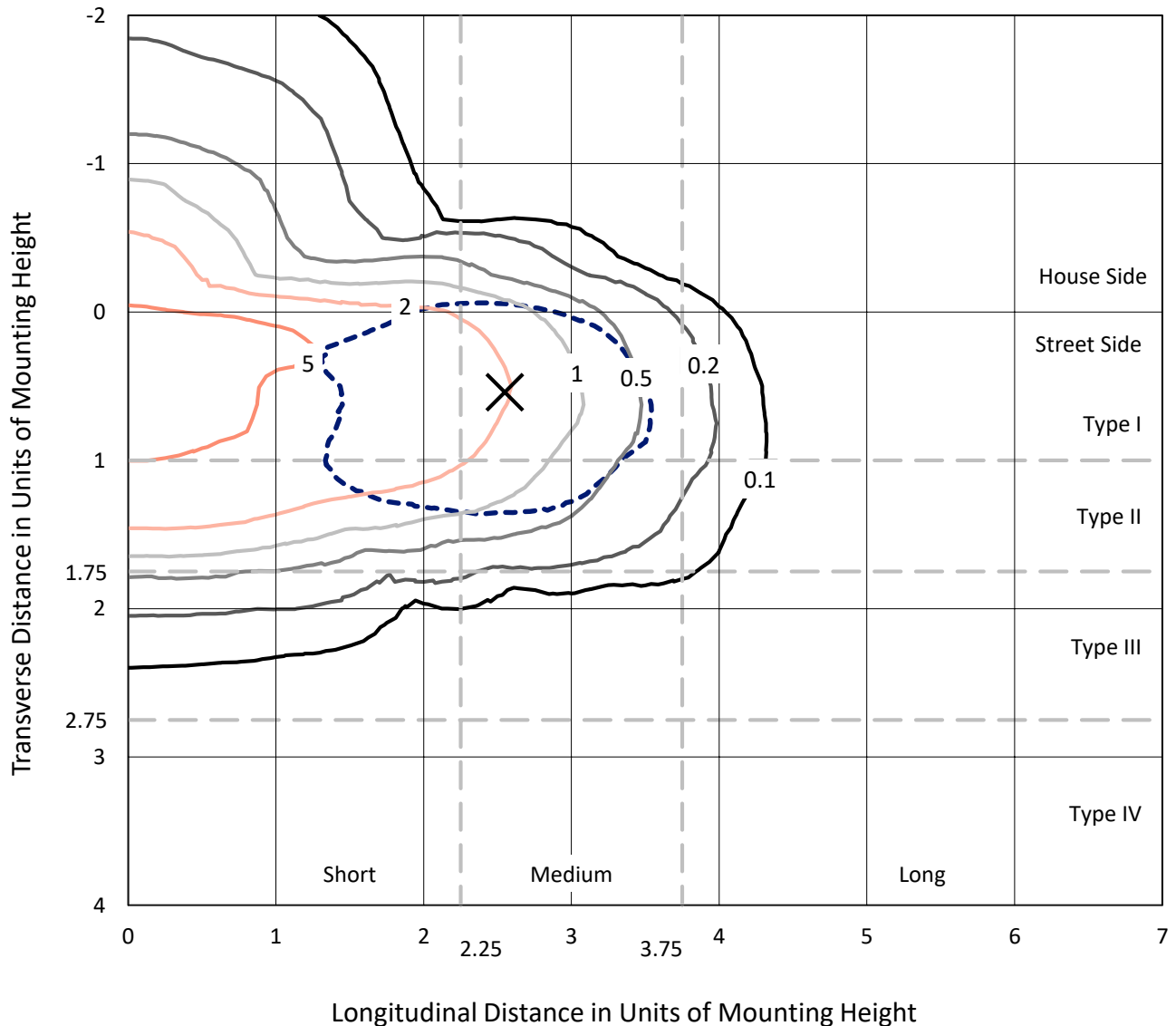
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

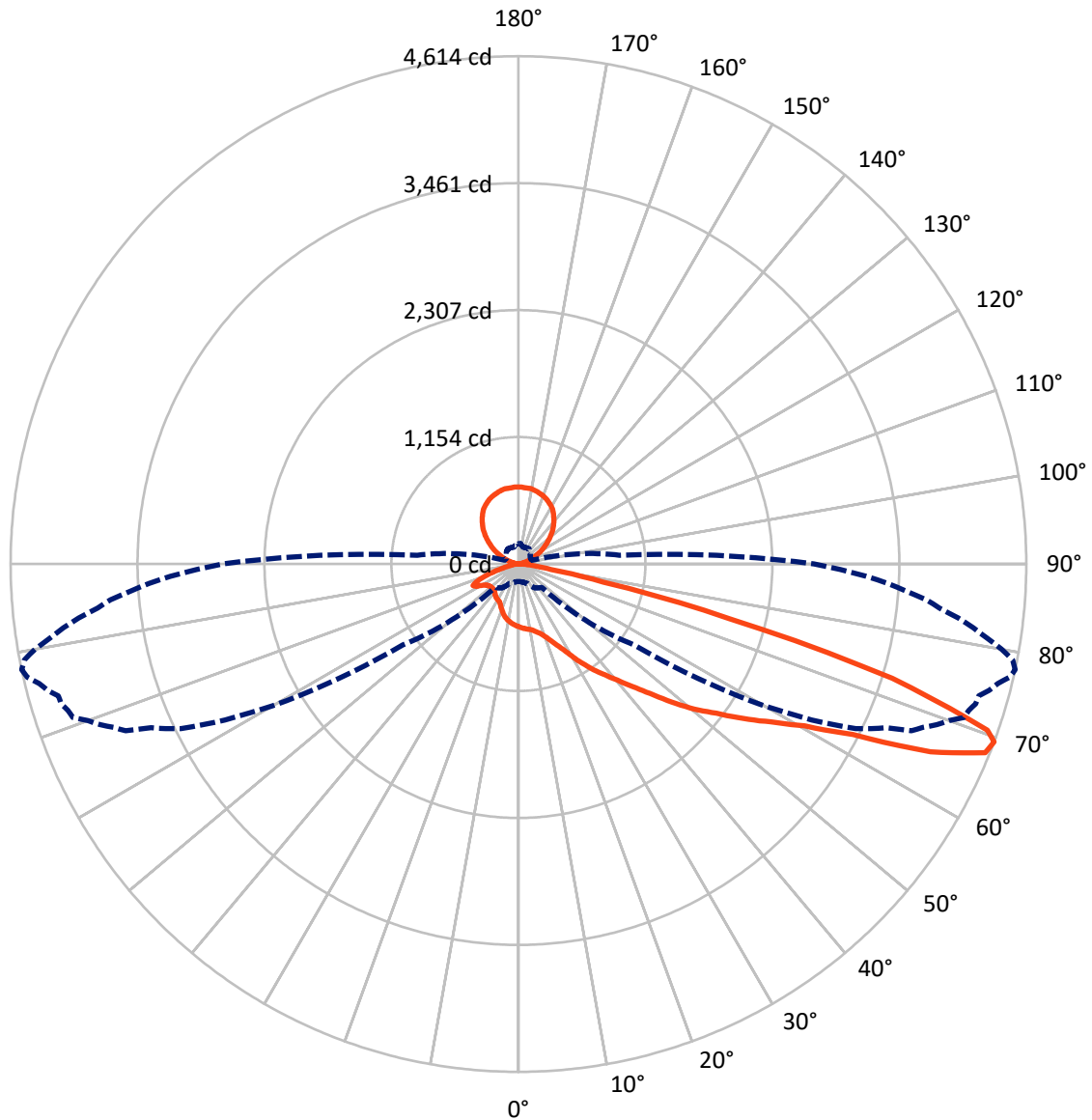
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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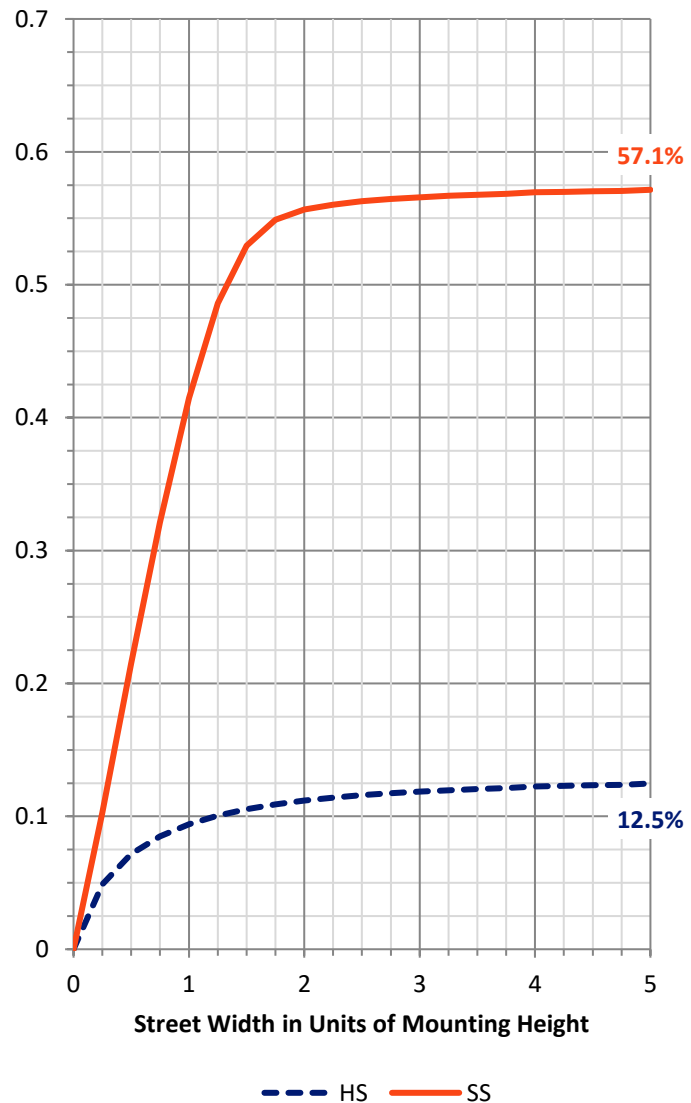
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	749.0	869.0	1617.9
	% Fixture	12.8	14.9	27.8
Street Side	Lumens	3343.5	868.2	4211.7
	% Fixture	57.4	14.9	72.2
Total	Lumens	4092.5	1737.2	5829.7
	% Fixture	70.2	29.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	0.9
10°-20°	159.6	2.7
20°-30°	286.2	4.9
30°-40°	467.1	8.0
40°-50°	690.9	11.9
50°-60°	902.2	15.5
60°-70°	1009.0	17.3
70°-80°	453.0	7.8
80°-90°	71.7	1.2
90°-100°	11.4	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.8
120°-130°	273.2	4.7
130°-140°	336.8	5.8
140°-150°	344.6	5.9
150°-160°	290.3	5.0
160°-170°	191.2	3.3
170°-180°	66.3	1.1
0°-90°	4092.5	70.2
0°-180°	5829.7	100.0



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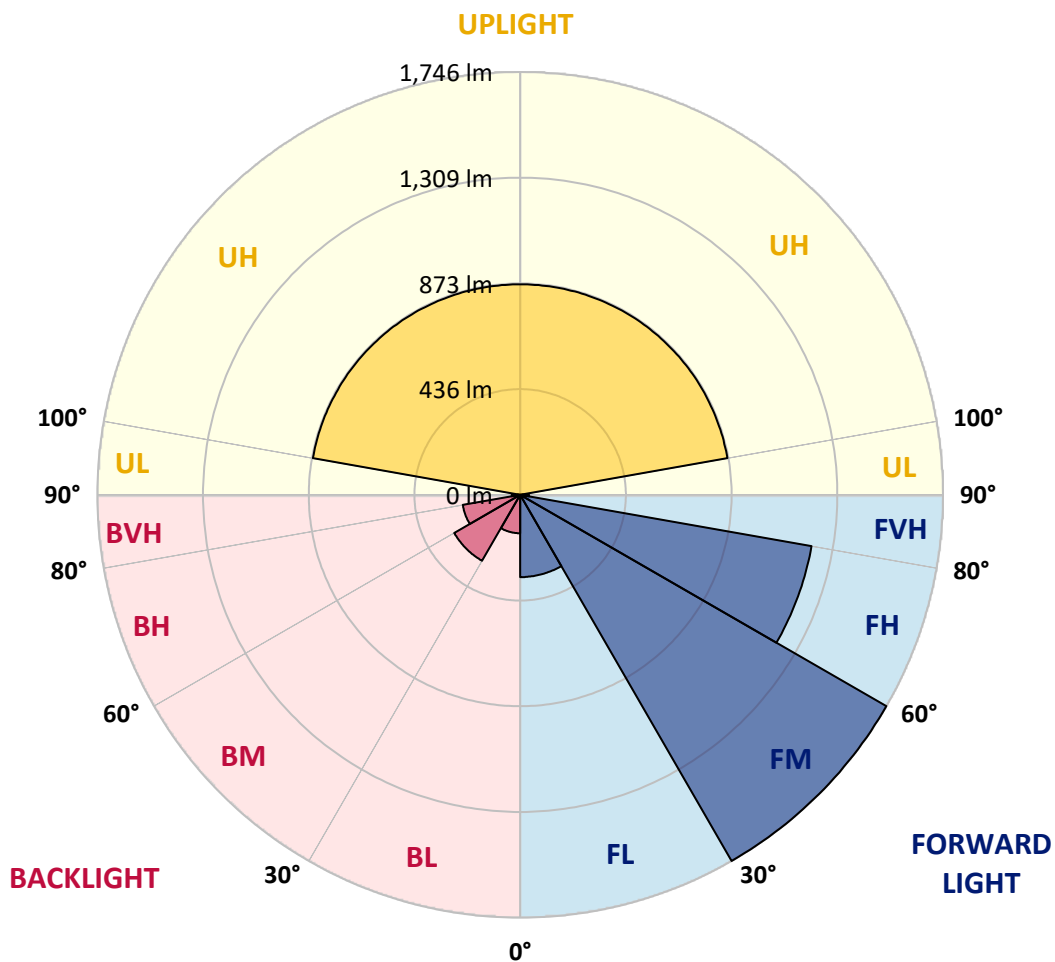
CATALOG NUMBER: IST-AF-600-LED-E1-T2-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.8	5.8			
FM (30°-60°)	1745.7	29.9			
FH (60°-80°)	1221.4	21.0			G1/1800
FVH (80°-90°)	36.6	0.6			G1/100
BL (0°-30°)	158.9	2.7	B1/500		
BM (30°-60°)	314.5	5.4	B1/1000		
BH (60°-80°)	240.5	4.1	B1/500		G1/500
BVH (80°-90°)	35.1	0.6			G1/100
UL (90°-100°)	11.4	0.2		U2/50	
UH (100°-180°)	869.0	14.9		U4/1000	

BUG Rating: B1-U5-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	609.7	609.7	607.9	606.7	604.9	600.2	593.1	591.9	591.3	590.1	588.9
5°	654.3	649.5	650.7	647.7	641.2	632.9	619.8	613.3	609.7	609.1	606.7
7.5°	690.5	691.1	689.3	683.4	674.5	664.4	646.5	636.4	633.5	631.7	627.5
10°	716.7	714.9	713.7	712.5	705.4	697.1	674.5	662.0	659.6	654.9	650.1
12.5°	735.7	735.7	735.7	734.5	730.3	723.8	706.0	693.5	690.5	684.0	679.8
15°	756.5	754.1	751.7	749.9	750.5	750.5	737.5	728.0	723.2	719.6	711.3
17.5°	801.1	795.7	790.4	783.2	771.9	769.0	768.4	767.8	761.2	760.6	752.3
20°	839.1	834.3	829.6	822.4	806.4	789.2	798.1	806.4	805.2	805.8	801.6
22.5°	886.0	882.5	873.0	864.6	843.8	823.0	824.2	842.1	844.4	846.8	848.0
25°	950.2	948.4	933.0	916.9	893.2	873.6	855.1	877.1	881.9	887.2	897.9
27.5°	1015.0	1010.8	994.2	979.9	950.2	929.4	903.9	915.7	922.9	933.0	949.6
30°	1098.8	1087.5	1081.5	1049.4	1022.1	991.8	969.8	973.4	972.2	984.1	1009.6
32.5°	1220.0	1202.2	1172.5	1140.4	1108.3	1067.9	1049.4	1048.9	1045.9	1059.6	1073.8
35°	1285.4	1281.2	1262.8	1230.7	1195.6	1157.6	1145.7	1134.4	1136.2	1143.3	1148.7
37.5°	1356.1	1352.5	1338.3	1320.4	1293.7	1314.5	1248.5	1231.9	1224.2	1220.6	1222.4
40°	1387.0	1390.0	1397.7	1400.7	1385.2	1485.0	1354.9	1300.2	1297.8	1292.5	1287.2
42.5°	1393.5	1401.2	1416.7	1450.6	1465.4	1682.9	1442.8	1376.9	1367.4	1363.2	1363.8
45°	1417.3	1429.2	1432.1	1463.0	1533.2	1693.0	1542.1	1444.6	1437.5	1436.9	1433.3
47.5°	1474.9	1491.0	1491.0	1504.6	1571.2	1712.6	1576.0	1512.4	1507.6	1505.2	1514.7
50°	1483.3	1504.6	1547.4	1591.4	1639.5	1728.7	1614.6	1586.1	1587.8	1593.2	1621.1
52.5°	1342.4	1363.8	1476.7	1606.3	1763.1	1772.7	1672.8	1684.1	1696.0	1722.1	1773.2
55°	1151.1	1166.5	1300.2	1507.6	1767.9	1939.6	1819.0	1850.5	1875.5	1883.2	1963.4
57.5°	906.2	927.6	1063.7	1332.9	1650.8	1987.2	2155.4	2169.6	2141.7	2167.2	2196.4
60°	490.9	488.5	678.0	963.9	1404.8	1899.2	2479.8	2724.6	2730.6	2769.8	2722.9
62.5°	274.5	274.5	329.2	495.0	903.9	1606.9	2635.5	3204.8	3279.1	3341.5	3478.8
65°	207.4	209.2	228.8	298.3	507.5	1014.4	2521.4	3368.8	3511.4	3654.7	3895.3
67.5°	172.3	172.3	186.6	222.3	317.3	460.5	1856.4	3039.6	3217.9	3389.0	3721.8
69°	159.9	160.4	171.1	195.5	265.6	299.5	1282.4	2577.3	2781.1	3018.2	3410.4
70°	153.9	152.1	162.2	182.4	240.7	236.5	939.5	2240.9	2399.0	2611.7	3062.8
72.5°	136.7	134.9	140.2	155.7	189.6	168.8	383.3	1205.7	1444.0	1682.3	2041.9
75°	121.8	120.0	124.2	131.3	147.4	129.0	192.5	505.1	611.5	790.4	1090.5
77.5°	107.6	104.0	107.6	112.3	115.9	96.3	130.7	233.5	286.4	351.8	496.8
80°	97.5	93.9	98.1	95.7	90.9	74.3	86.8	136.1	150.9	180.7	236.5
82.5°	69.5	68.9	93.3	96.3	72.5	54.1	61.8	87.4	97.5	102.8	124.8
85°	42.8	41.0	54.1	68.9	73.7	33.9	39.8	51.7	54.1	58.8	69.5
87.5°	22.0	22.6	29.1	35.7	48.1	20.2	23.8	30.3	30.3	30.3	34.5
90°	10.3	11.5	15.9	20.5	18.1	12.3	15.9	15.1	16.5	15.5	17.1
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	7.5	7.6	7.7	7.9
97.5°	7.0	7.0	8.0	8.0	9.0	9.0	12.0	11.0	10.8	10.6	10.2
100°	8.0	8.0	9.0	10.0	12.0	21.0	29.0	27.5	27.2	26.9	26.3
102.5°	11.0	11.0	13.0	18.0	27.0	40.0	50.0	48.5	48.2	47.9	47.3
105°	21.0	22.0	27.0	36.0	48.0	63.0	72.0	71.0	70.8	70.6	70.2
107.5°	41.0	42.0	49.0	58.0	73.0	88.0	95.0	94.5	94.4	94.3	94.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	66.0	68.0	74.0	87.0	102.0	114.0	120.0	120.5	120.6	120.7	120.9
112.5°	99.0	99.0	106.0	121.0	134.0	143.0	148.0	149.0	149.2	149.4	149.8
115°	140.0	139.0	147.0	159.0	168.0	174.0	179.0	180.5	180.8	181.1	181.7
117.5°	184.0	184.0	189.0	197.0	202.0	205.0	211.0	213.0	213.4	213.8	214.6
120°	225.0	223.0	226.0	233.0	237.0	243.0	246.0	248.0	248.4	248.8	249.6
122.5°	263.0	260.0	261.0	267.0	271.0	277.0	279.0	281.0	281.4	281.8	282.6
125°	298.0	294.0	296.0	299.0	305.0	310.0	313.0	314.0	314.2	314.4	314.8
127.5°	330.0	329.0	329.0	333.0	339.0	340.0	345.0	345.5	345.6	345.7	345.9
130°	363.0	361.0	362.0	366.0	370.0	372.0	377.0	379.0	379.4	379.8	380.6
132.5°	396.0	394.0	393.0	401.0	404.0	405.0	411.0	413.5	414.0	414.5	415.5
135°	429.0	426.0	426.0	432.0	435.0	437.0	443.0	445.5	446.0	446.5	447.5
137.5°	460.0	457.0	459.0	460.0	464.0	468.0	473.0	474.0	474.2	474.4	474.8
140°	488.0	485.0	487.0	489.0	491.0	497.0	500.0	501.0	501.2	501.4	501.8
142.5°	518.0	515.0	517.0	518.0	521.0	525.0	527.0	530.0	530.6	531.2	532.4
145°	550.0	546.0	544.0	547.0	550.0	551.0	556.0	559.0	559.6	560.2	561.4
147.5°	575.0	572.0	571.0	574.0	574.0	575.0	580.0	582.5	583.0	583.5	584.5
150°	595.0	592.0	593.0	593.0	593.0	593.0	597.0	598.5	598.8	599.1	599.7
152.5°	611.0	608.0	608.0	609.0	610.0	610.0	611.0	612.5	612.8	613.1	613.7
155°	629.0	625.0	625.0	627.0	630.0	628.0	626.0	628.5	629.0	629.5	630.5
157.5°	646.0	643.0	643.0	644.0	646.0	645.0	644.0	646.0	646.4	646.8	647.6
160°	663.0	660.0	659.0	656.0	655.0	655.0	658.0	661.0	661.6	662.2	663.4
162.5°	673.0	669.0	669.0	665.0	661.0	663.0	667.0	669.0	669.4	669.8	670.6
165°	681.0	678.0	676.0	676.0	673.0	673.0	672.0	674.5	675.0	675.5	676.5
167.5°	690.0	687.0	684.0	686.0	688.0	685.0	678.0	681.0	681.6	682.2	683.4
170°	698.0	695.0	692.0	692.0	693.0	691.0	686.0	687.5	687.8	688.1	688.7
172.5°	699.0	697.0	695.0	693.0	690.0	690.0	689.0	690.5	690.8	691.1	691.7
175°	700.0	698.0	697.0	695.0	691.0	690.0	690.0	692.5	693.0	693.5	694.5
177.5°	707.0	705.0	700.0	699.0	697.0	695.0	694.0	696.5	697.0	697.5	698.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	589.5	587.7	585.3	585.9	584.7	583.0	583.6	583.0	583.6	582.4	581.2
5°	606.7	605.5	602.0	601.4	600.2	599.0	597.2	595.4	594.8	593.7	591.3
7.5°	626.3	622.8	621.0	618.6	615.6	610.9	610.3	607.9	606.1	604.9	602.0
10°	646.5	642.4	640.0	637.0	634.1	631.1	628.1	624.0	619.8	618.6	615.1
12.5°	676.9	671.5	666.8	662.0	659.0	653.7	649.5	644.2	640.0	638.2	632.3
15°	710.1	703.0	698.2	694.7	689.9	685.2	679.8	675.1	668.5	663.2	657.8
17.5°	749.4	742.8	739.2	732.7	726.8	721.4	717.3	711.3	706.0	696.5	691.7
20°	801.1	795.7	791.5	784.4	777.9	772.5	769.0	756.5	749.4	741.0	733.3
22.5°	849.2	849.8	845.6	840.9	836.7	829.6	823.6	814.7	805.8	795.7	785.0
25°	901.5	906.2	906.8	905.6	903.3	894.9	892.0	883.1	875.9	859.3	854.5
27.5°	959.7	965.1	971.6	979.9	981.7	972.8	977.0	968.0	955.6	948.4	933.0
30°	1016.2	1031.0	1044.7	1054.2	1060.1	1064.3	1061.3	1058.4	1050.0	1038.2	1024.5
32.5°	1088.7	1104.1	1117.8	1138.6	1149.3	1162.4	1160.0	1161.2	1158.2	1146.3	1130.3
35°	1161.8	1175.4	1193.3	1206.9	1233.1	1247.3	1259.2	1258.6	1258.6	1251.5	1236.0
37.5°	1226.5	1234.3	1249.1	1271.7	1288.9	1311.5	1330.5	1338.3	1350.7	1351.3	1334.7
40°	1294.3	1302.0	1313.3	1329.9	1349.0	1375.7	1401.2	1426.2	1438.1	1450.6	1444.0
42.5°	1367.4	1375.7	1384.0	1394.7	1422.0	1442.8	1477.3	1511.2	1535.5	1561.1	1558.1
45°	1439.9	1449.4	1461.3	1477.3	1501.7	1535.5	1568.8	1606.9	1662.7	1693.0	1713.8
47.5°	1521.9	1537.3	1559.3	1584.9	1604.5	1639.5	1681.7	1740.6	1797.0	1849.3	1882.0
50°	1645.5	1651.4	1687.1	1712.0	1749.5	1785.1	1827.3	1879.0	1952.1	2005.6	2057.9
52.5°	1791.1	1813.7	1849.3	1877.8	1907.5	1943.2	1986.6	2032.9	2105.4	2165.5	2233.2
55°	1978.9	2010.9	2041.9	2057.3	2098.9	2131.0	2166.0	2211.8	2289.7	2355.0	2434.7
57.5°	2202.9	2235.0	2249.8	2272.4	2290.2	2325.9	2373.4	2404.3	2473.3	2541.0	2625.4
60°	2662.8	2642.6	2660.5	2625.4	2620.1	2623.0	2633.1	2656.9	2695.5	2758.5	2847.7
62.5°	3493.0	3463.9	3386.6	3358.7	3304.6	3231.5	3162.6	3153.1	3132.9	3180.4	3236.3
65°	3977.9	4083.7	4095.0	4124.7	4103.3	4046.3	3965.4	3939.3	3873.9	3828.2	3825.2
67.5°	3861.5	4020.1	4119.4	4244.7	4314.3	4382.0	4399.8	4423.0	4380.8	4360.0	4366.0
69°	3537.6	3655.2	3877.5	3963.1	4073.0	4163.3	4282.2	4303.0	4344.0	4349.9	4429.0
70°	3216.7	3389.6	3516.8	3645.1	3797.3	3896.5	3950.0	4037.9	4139.6	4189.5	4275.0
72.5°	2312.8	2369.3	2459.6	2626.0	2668.2	2771.0	2876.2	2951.1	3070.5	3154.9	3356.3
75°	1247.9	1281.8	1423.8	1518.3	1543.3	1577.1	1654.4	1672.8	1717.4	1744.7	1938.5
77.5°	569.9	621.6	640.0	691.7	662.6	676.9	695.3	691.1	703.6	763.0	830.8
80°	262.7	272.8	279.9	301.3	302.5	297.7	299.5	296.5	294.2	303.7	310.8
82.5°	127.8	143.2	143.2	156.3	162.8	161.0	164.6	163.4	165.8	163.4	171.1
85°	74.9	74.9	80.8	87.9	86.8	89.1	89.1	93.9	94.5	95.7	95.7
87.5°	35.1	38.6	40.4	43.4	44.6	46.4	47.5	47.5	48.1	46.9	48.1
90°	17.9	17.9	23.9	23.9	25.0	26.8	24.5	25.6	29.8	24.5	28.6
92.5°	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0
95°	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2	7.1	7.0
97.5°	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0
100°	26.0	25.7	25.4	25.1	24.8	24.5	24.2	23.9	23.6	23.3	23.0
102.5°	47.0	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0	42.5	42.0
105°	70.0	69.5	69.0	68.5	68.0	67.5	67.0	66.5	66.0	65.5	65.0
107.5°	94.0	93.6	93.2	92.8	92.4	92.0	91.6	91.2	90.8	90.4	90.0



REPORT NUMBER: P226308

CATALOG NUMBER: IST-AF-600-LED-E1-T2-7050-ULG

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	121.0	120.8	120.6	120.4	120.2	120.0	119.8	119.6	119.4	119.2	119.0
112.5°	150.0	149.9	149.8	149.7	149.6	149.5	149.4	149.3	149.2	149.1	149.0
115°	182.0	181.7	181.4	181.1	180.8	180.5	180.2	179.9	179.6	179.3	179.0
117.5°	215.0	214.5	214.0	213.5	213.0	212.5	212.0	211.5	211.0	210.5	210.0
120°	250.0	249.5	249.0	248.5	248.0	247.5	247.0	246.5	246.0	245.5	245.0
122.5°	283.0	282.5	282.0	281.5	281.0	280.5	280.0	279.5	279.0	278.5	278.0
125°	315.0	314.5	314.0	313.5	313.0	312.5	312.0	311.5	311.0	310.5	310.0
127.5°	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0	346.0
130°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
132.5°	416.0	415.8	415.6	415.4	415.2	415.0	414.8	414.6	414.4	414.2	414.0
135°	448.0	447.9	447.8	447.7	447.6	447.5	447.4	447.3	447.2	447.1	447.0
137.5°	475.0	475.1	475.2	475.3	475.4	475.5	475.6	475.7	475.8	475.9	476.0
140°	502.0	502.2	502.4	502.6	502.8	503.0	503.2	503.4	503.6	503.8	504.0
142.5°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
145°	562.0	561.9	561.8	561.7	561.6	561.5	561.4	561.3	561.2	561.1	561.0
147.5°	585.0	585.1	585.2	585.3	585.4	585.5	585.6	585.7	585.8	585.9	586.0
150°	600.0	600.3	600.6	600.9	601.2	601.5	601.8	602.1	602.4	602.7	603.0
152.5°	614.0	614.4	614.8	615.2	615.6	616.0	616.4	616.8	617.2	617.6	618.0
155°	631.0	631.5	632.0	632.5	633.0	633.5	634.0	634.5	635.0	635.5	636.0
157.5°	648.0	648.2	648.4	648.6	648.8	649.0	649.2	649.4	649.6	649.8	650.0
160°	664.0	663.7	663.4	663.1	662.8	662.5	662.2	661.9	661.6	661.3	661.0
162.5°	671.0	670.9	670.8	670.7	670.6	670.5	670.4	670.3	670.2	670.1	670.0
165°	677.0	677.3	677.6	677.9	678.2	678.5	678.8	679.1	679.4	679.7	680.0
167.5°	684.0	684.4	684.8	685.2	685.6	686.0	686.4	686.8	687.2	687.6	688.0
170°	689.0	689.5	690.0	690.5	691.0	691.5	692.0	692.5	693.0	693.5	694.0
172.5°	692.0	692.2	692.4	692.6	692.8	693.0	693.2	693.4	693.6	693.8	694.0
175°	695.0	695.1	695.2	695.3	695.4	695.5	695.6	695.7	695.8	695.9	696.0
177.5°	699.0	699.2	699.4	699.6	699.8	700.0	700.2	700.4	700.6	700.8	701.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3
2.5°	580.0	581.2	580.6	578.2	577.6	577.6	576.4	575.8	574.6	574.0	575.2
5°	590.7	590.7	588.9	586.5	584.1	583.6	583.0	580.0	578.8	577.6	576.4
7.5°	600.8	599.6	597.2	593.1	590.7	590.1	587.7	584.7	581.8	579.4	578.2
10°	611.5	610.3	605.5	602.6	597.8	597.2	593.1	589.5	586.5	583.6	581.2
12.5°	626.9	625.7	620.4	613.3	609.7	607.3	602.0	597.8	593.7	590.1	585.9
15°	650.7	646.0	642.4	635.3	629.9	625.2	618.6	612.7	606.7	600.8	597.2
17.5°	684.0	677.4	667.9	663.8	656.6	648.9	640.0	635.8	628.1	621.0	613.9
20°	727.4	720.8	706.0	700.6	690.5	679.2	672.1	663.2	656.6	645.4	637.6
22.5°	775.5	769.6	755.3	741.0	731.5	722.6	711.3	700.0	687.5	676.9	668.5
25°	837.9	829.0	816.5	802.2	788.0	775.5	760.0	744.0	733.3	718.5	706.6
27.5°	922.9	907.4	886.6	871.2	859.9	840.9	821.9	807.6	790.9	771.3	758.3
30°	1015.0	997.7	982.3	964.5	945.5	927.0	900.9	880.1	862.3	841.5	820.1
32.5°	1117.2	1102.3	1080.4	1057.2	1036.4	1013.2	994.2	972.2	941.3	919.3	896.7
35°	1220.0	1202.8	1180.2	1160.6	1136.8	1113.0	1091.6	1062.5	1034.6	1003.1	971.6
37.5°	1319.2	1304.4	1279.4	1249.7	1228.9	1203.4	1181.4	1150.5	1117.2	1082.1	1058.4
40°	1429.8	1406.0	1388.8	1354.3	1332.9	1304.4	1272.9	1249.1	1217.0	1179.0	1145.1
42.5°	1556.3	1539.7	1521.3	1493.4	1470.8	1436.9	1397.1	1366.8	1337.1	1291.9	1245.0
45°	1716.8	1706.1	1675.8	1653.2	1622.9	1587.2	1552.8	1515.9	1469.0	1416.7	1373.9
47.5°	1909.3	1901.0	1873.7	1841.6	1801.8	1753.6	1721.5	1671.0	1631.2	1565.9	1514.7
50°	2084.0	2088.2	2073.3	2024.0	1988.4	1940.2	1889.7	1845.7	1784.5	1716.8	1651.4
52.5°	2292.6	2288.5	2251.0	2223.7	2181.5	2123.3	2068.0	2011.5	1944.4	1874.3	1792.9
55°	2492.3	2504.8	2478.6	2440.0	2388.9	2307.5	2251.6	2178.5	2107.8	2030.6	1936.7
57.5°	2686.0	2725.8	2705.6	2659.9	2607.6	2548.7	2475.1	2393.1	2320.0	2218.9	2113.2
60°	2927.3	2980.2	2988.5	2958.8	2901.7	2833.4	2736.5	2672.4	2571.9	2478.6	2397.2
62.5°	3298.7	3418.7	3411.6	3425.9	3385.5	3343.3	3229.8	3160.8	3030.1	2962.9	2849.4
65°	3919.1	4007.6	4114.0	4110.4	4082.5	3981.5	3863.8	3748.5	3662.4	3529.9	3411.6
67.5°	4439.7	4512.8	4575.7	4543.1	4478.9	4365.4	4227.5	4067.1	3935.7	3789.5	3634.4
69°	4488.4	4577.5	4614.4	4574.0	4458.7	4310.7	4175.8	4026.7	3846.0	3720.6	3531.6
70°	4357.7	4445.6	4519.9	4415.9	4310.1	4165.7	4018.3	3863.2	3701.6	3566.7	3375.9
72.5°	3461.5	3560.8	3550.7	3539.4	3455.0	3310.6	3175.1	3091.9	2978.4	2815.6	2677.7
75°	2012.7	2058.5	1978.3	2062.6	1961.6	1816.0	1835.1	1741.2	1658.0	1564.1	1491.6
77.5°	790.4	830.8	788.6	774.9	729.7	719.6	644.2	653.1	615.6	542.0	508.1
80°	299.5	304.9	297.7	282.9	279.9	262.7	257.9	241.3	233.5	209.2	200.3
82.5°	161.0	164.0	159.3	154.5	150.9	140.8	134.3	121.8	114.7	107.0	106.4
85°	92.7	90.3	87.9	85.6	80.2	74.3	69.5	64.8	59.4	55.3	51.1
87.5°	48.7	49.3	49.9	47.5	44.0	39.2	36.2	34.5	30.3	28.5	26.7
90°	24.8	20.5	22.1	25.4	24.0	20.9	20.1	18.1	16.1	15.9	14.1
92.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
95°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
97.5°	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.1	8.0	8.0
100°	22.6	22.2	21.8	21.4	21.0	20.6	20.2	19.8	19.4	19.0	19.0
102.5°	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.8
105°	64.6	64.2	63.8	63.4	63.0	62.6	62.2	61.8	61.4	61.0	61.0
107.5°	89.7	89.4	89.1	88.8	88.5	88.2	87.9	87.6	87.3	87.0	86.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	118.7	118.4	118.1	117.8	117.5	117.2	116.9	116.6	116.3	116.0	116.2	0°
112.5°	148.8	148.6	148.4	148.2	148.0	147.8	147.6	147.4	147.2	147.0	147.0	2.5°
115°	178.8	178.6	178.4	178.2	178.0	177.8	177.6	177.4	177.2	177.0	177.2	5°
117.5°	209.8	209.6	209.4	209.2	209.0	208.8	208.6	208.4	208.2	208.0	208.2	7.5°
120°	244.8	244.6	244.4	244.2	244.0	243.8	243.6	243.4	243.2	243.0	243.0	10°
122.5°	277.8	277.6	277.4	277.2	277.0	276.8	276.6	276.4	276.2	276.0	276.2	12.5°
125°	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	15°
127.5°	345.9	345.8	345.7	345.6	345.5	345.4	345.3	345.2	345.1	345.0	345.4	17.5°
130°	380.8	380.6	380.4	380.2	380.0	379.8	379.6	379.4	379.2	379.0	379.2	20°
132.5°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.2	22.5°
135°	447.3	447.6	447.9	448.2	448.5	448.8	449.1	449.4	449.7	450.0	450.2	25°
137.5°	476.5	477.0	477.5	478.0	478.5	479.0	479.5	480.0	480.5	481.0	481.2	27.5°
140°	504.5	505.0	505.5	506.0	506.5	507.0	507.5	508.0	508.5	509.0	509.4	30°
142.5°	533.1	533.2	533.3	533.4	533.5	533.6	533.7	533.8	533.9	534.0	534.4	32.5°
145°	560.7	560.4	560.1	559.8	559.5	559.2	558.9	558.6	558.3	558.0	558.4	35°
147.5°	585.7	585.4	585.1	584.8	584.5	584.2	583.9	583.6	583.3	583.0	583.4	37.5°
150°	603.3	603.6	603.9	604.2	604.5	604.8	605.1	605.4	605.7	606.0	606.8	40°
152.5°	618.5	619.0	619.5	620.0	620.5	621.0	621.5	622.0	622.5	623.0	624.0	42.5°
155°	636.2	636.4	636.6	636.8	637.0	637.2	637.4	637.6	637.8	638.0	638.6	45°
157.5°	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	650.0	651.0	47.5°
160°	660.9	660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	661.2	50°
162.5°	669.8	669.6	669.4	669.2	669.0	668.8	668.6	668.4	668.2	668.0	669.2	52.5°
165°	679.8	679.6	679.4	679.2	679.0	678.8	678.6	678.4	678.2	678.0	678.8	55°
167.5°	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	688.0	689.2	57.5°
170°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	60°
172.5°	694.2	694.4	694.6	694.8	695.0	695.2	695.4	695.6	695.8	696.0	697.0	62.5°
175°	695.8	695.6	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	695.0	65°
177.5°	700.7	700.4	700.1	699.8	699.5	699.2	698.9	698.6	698.3	698.0	698.8	67.5°
180°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	569.3	110°	116.4
573.5	573.5	571.7	570.5	566.3	559.2	552.1	545.5	536.6	533.0	528.3	112.5°	147.0
575.2	574.0	572.3	569.9	561.6	544.9	527.7	509.3	490.3	473.0	452.8	115°	177.4
576.4	574.0	571.7	568.7	556.8	531.3	496.8	460.5	426.7	401.1	390.4	117.5°	208.4
577.0	575.2	572.3	568.1	551.5	513.4	458.2	405.9	376.2	366.1	364.3	120°	243.0
583.6	580.6	575.8	571.1	549.1	493.8	414.8	364.9	353.0	357.7	366.1	122.5°	276.4
591.9	588.3	582.4	577.6	547.9	468.3	372.6	341.7	345.9	358.9	372.6	125°	310.0
606.7	600.8	594.3	589.5	550.3	436.8	338.7	329.8	342.3	358.9	377.4	127.5°	345.8
628.7	620.4	612.7	604.4	553.8	397.6	318.5	322.1	336.9	354.8	375.0	130°	379.4
656.1	646.5	635.8	623.4	558.0	363.7	307.2	313.8	327.4	342.9	359.5	132.5°	414.4
692.9	679.8	666.2	650.7	563.9	326.8	297.1	304.3	312.6	321.5	329.8	135°	450.4
739.2	721.4	706.6	685.8	569.9	301.9	288.8	291.2	293.0	294.2	293.6	137.5°	481.4
801.1	773.7	756.5	730.9	576.4	288.8	279.3	276.3	273.4	269.2	264.4	140°	509.8
866.4	843.8	816.5	783.8	580.6	279.9	270.4	260.9	252.6	248.4	248.4	142.5°	534.8
942.5	914.6	880.1	839.1	575.2	270.4	258.5	246.0	241.3	246.6	244.8	145°	558.8
1018.5	979.9	941.9	894.9	562.2	259.7	245.4	238.9	242.5	235.3	231.2	147.5°	583.8
1102.3	1059.6	1006.7	952.0	543.1	248.4	238.9	242.5	230.0	221.7	225.2	150°	607.6
1196.2	1145.7	1088.7	1014.4	530.7	241.3	228.8	231.8	221.1	215.1	213.3	152.5°	625.0
1324.0	1252.1	1182.6	1095.2	540.2	230.0	209.2	221.1	215.1	209.8	205.0	155°	639.2
1449.4	1372.7	1290.7	1187.9	556.8	221.7	193.7	209.8	213.9	205.0	196.1	157.5°	652.0
1575.4	1493.9	1398.3	1283.6	577.0	216.3	181.8	196.1	211.0	200.3	193.1	160°	662.4
1707.9	1605.1	1507.0	1383.4	603.2	211.0	172.3	184.2	205.6	200.3	189.6	162.5°	670.4
1846.9	1725.7	1627.7	1493.9	648.9	203.2	160.4	174.7	200.3	199.7	186.0	165°	679.6
2008.6	1900.4	1774.4	1638.4	712.5	194.3	149.8	167.6	195.5	197.3	181.8	167.5°	690.4
2283.7	2172.0	2019.9	1890.3	838.5	182.4	143.2	160.4	187.8	192.5	178.3	170°	698.0
2730.0	2577.9	2438.2	2317.0	1054.2	165.8	138.5	152.7	179.5	186.6	175.3	172.5°	698.0
3241.6	3093.1	2924.3	2720.5	1174.2	150.3	131.9	143.2	171.1	180.7	172.3	175°	696.0
3459.1	3264.8	3059.8	2817.9	1059.6	137.9	124.8	134.3	161.6	172.3	168.2	177.5°	699.6
3359.3	3162.6	2924.3	2687.2	921.7	131.3	120.6	129.5	154.5	167.0	164.0	180°	700.0
3185.8	2987.9	2775.2	2490.5	823.0	127.8	117.7	126.6	151.5	164.0	161.6		
2519.6	2343.1	2147.0	1930.1	561.0	115.9	108.2	117.7	139.6	153.3	152.7		
1335.3	1283.6	1138.6	1011.4	290.6	103.4	98.1	107.6	129.0	143.2	143.2		
480.7	436.2	417.2	346.4	154.5	90.3	87.9	95.1	117.1	130.7	130.1		
181.8	177.1	158.7	148.6	98.1	73.7	74.3	81.4	102.8	115.9	115.3		
102.8	93.3	90.3	87.4	62.4	58.2	61.2	68.3	87.9	99.2	101.0		
49.3	45.8	44.6	41.6	41.0	44.6	48.1	54.1	70.1	83.8	82.0		
23.8	22.6	22.0	21.4	29.1	28.5	35.1	37.4	46.9	66.6	60.0		
14.7	14.7	14.1	12.9	15.3	18.5	20.3	23.0	26.6	46.6	39.5		
6.0	6.0	6.0	6.0	6.0	6.0	7.0	7.0	6.0	6.0	6.0		
7.0	7.0	7.0	7.0	7.0	7.0	8.0	7.0	7.0	7.0	7.0		
8.0	8.0	8.0	8.0	8.0	9.0	10.0	12.0	9.0	9.0	8.0		
19.0	19.0	19.0	19.0	19.0	23.0	26.0	29.0	21.0	12.0	10.0		
38.6	38.4	38.2	38.0	39.0	42.0	47.0	50.0	40.0	27.0	18.0		
61.0	61.0	61.0	61.0	61.0	65.0	70.0	72.0	63.0	48.0	36.0		
86.6	86.4	86.2	86.0	87.0	90.0	94.0	95.0	88.0	73.0	58.0		

'226308
 IST-AF-600-LED-E1-T2-7050-ULG

REPORT NUMBER: P226308
 CATALOG NUMBER: IST-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
116.6	116.8	117.0	116.0	119.0	121.0	120.0	114.0	102.0	87.0	0°	569.3	569.3
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	524.1	515.8
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	438.0	436.8
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	383.9	376.2
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	366.1	365.5
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	373.8	375.6
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	383.9	387.5
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	390.4	397.0
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	388.6	396.4
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	369.0	372.6
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	334.0	335.2
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	291.8	290.6
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	262.1	254.3
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	248.4	243.6
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	238.9	231.2
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	247.8	247.2
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	256.1	254.9
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	241.9	231.2
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	215.7	203.2
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	197.9	190.8
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	189.6	187.2
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	187.2	193.1
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	186.0	192.5
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	177.7	189.0
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	171.7	185.4
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	168.2	183.6
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	165.2	184.8
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	160.4	188.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	158.1	187.8
										70°	155.7	186.0
										72.5°	147.4	171.7
										75°	137.3	151.5
										77.5°	124.2	130.1
										80°	109.9	113.5
										82.5°	95.7	109.3
										85°	74.9	92.7
										87.5°	55.3	51.1
										90°	38.5	28.2
										92.5°	5.0	4.0
										95°	6.0	5.0
										97.5°	8.0	7.0
										100°	9.0	8.0
										102.5°	13.0	11.0
										105°	27.0	22.0
										107.5°	49.0	42.0



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CATALOG NUMBER: IST-AF-600-LED-E1-1

0-LED-E1-T2-7050-ULG

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180°
569.3
517.6
433.2
376.8
367.2
374.4
388.6
399.3
398.1
375.6
336.3
295.3
260.3
249.0
234.7
250.2
257.3
233.5
203.2
189.6
186.0
194.9
191.9
189.6
186.0
183.0
182.4
183.6
181.2
178.3
160.4
144.4
130.1
114.7
96.9
72.5
55.3
24.6
4.0
5.0
7.0
8.0
11.0
21.0
41.0

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
110°	74.0	68.0	66.0
112.5°	106.0	99.0	99.0
115°	147.0	139.0	140.0
117.5°	189.0	184.0	184.0
120°	226.0	223.0	225.0
122.5°	261.0	260.0	263.0
125°	296.0	294.0	298.0
127.5°	329.0	329.0	330.0
130°	362.0	361.0	363.0
132.5°	393.0	394.0	396.0
135°	426.0	426.0	429.0
137.5°	459.0	457.0	460.0
140°	487.0	485.0	488.0
142.5°	517.0	515.0	518.0
145°	544.0	546.0	550.0
147.5°	571.0	572.0	575.0
150°	593.0	592.0	595.0
152.5°	608.0	608.0	611.0
155°	625.0	625.0	629.0
157.5°	643.0	643.0	646.0
160°	659.0	660.0	663.0
162.5°	669.0	669.0	673.0
165°	676.0	678.0	681.0
167.5°	684.0	687.0	690.0
170°	692.0	695.0	698.0
172.5°	695.0	697.0	699.0
175°	697.0	698.0	700.0
177.5°	700.0	705.0	707.0
180°	700.0	700.0	700.0

(END OF F

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

