

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: P226305

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226305  
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-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 5963.5 lumens  
Efficiency: N/A  
Efficacy: 118.3 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

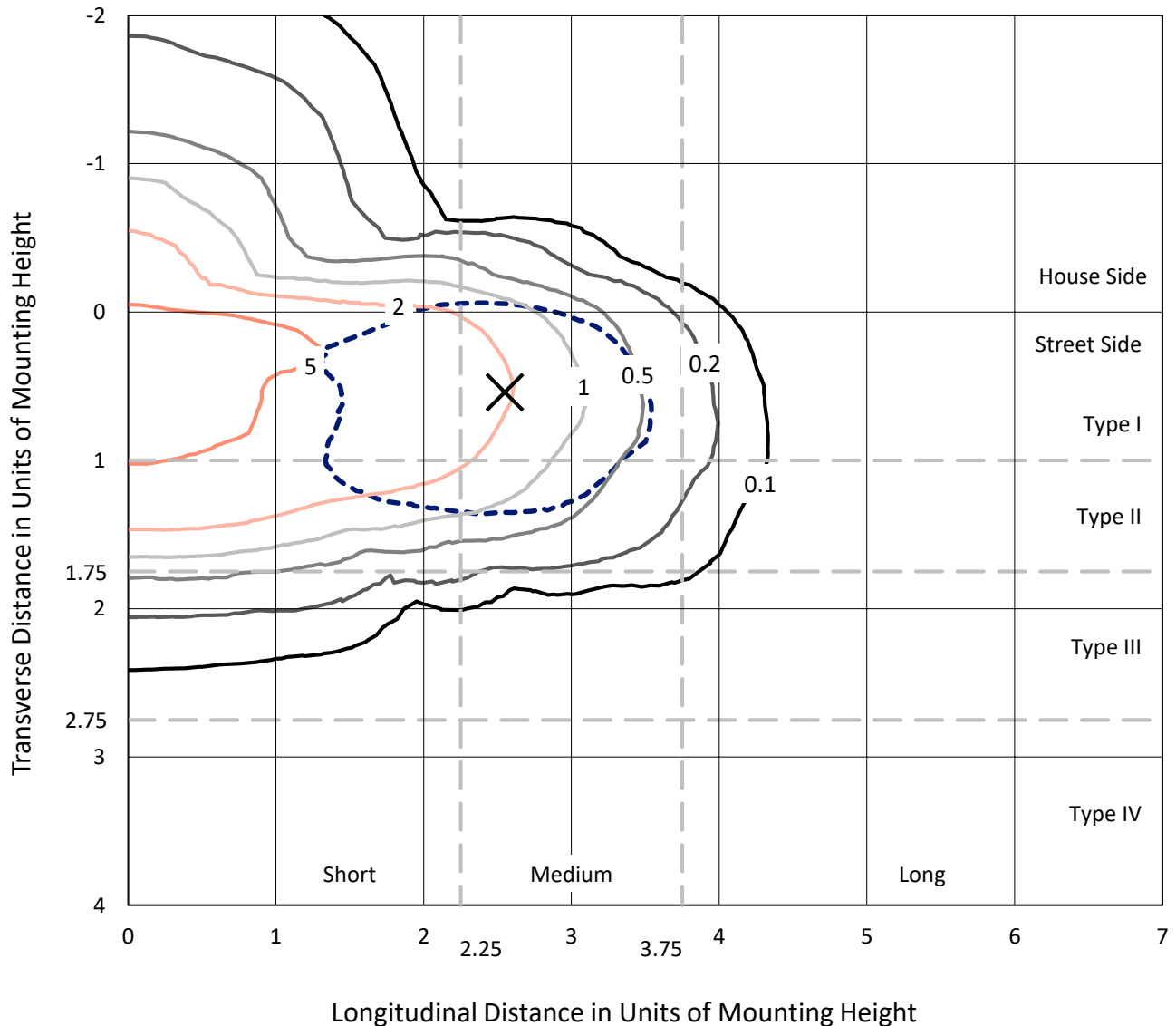
Input Watts (W): 50.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

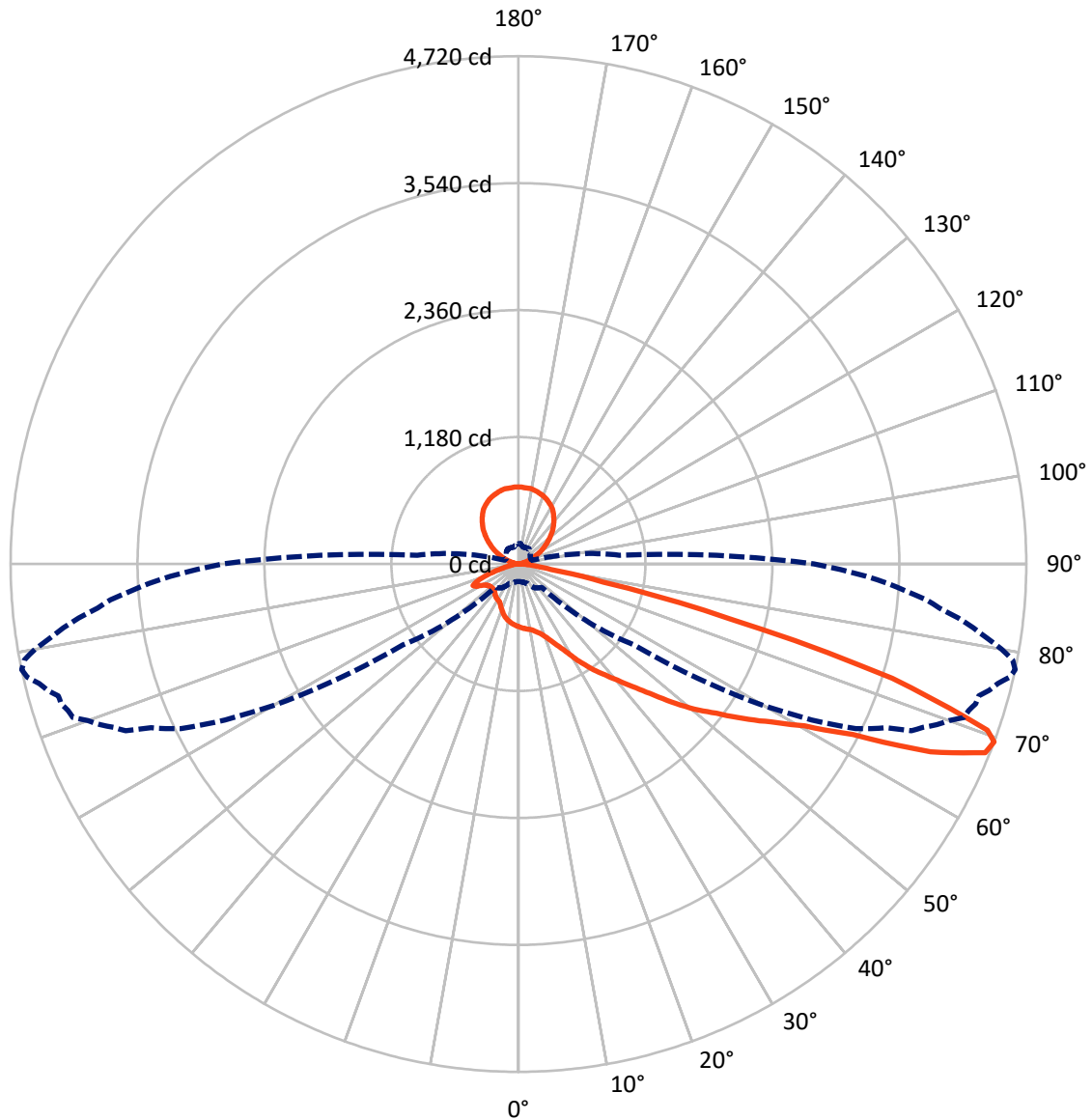
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 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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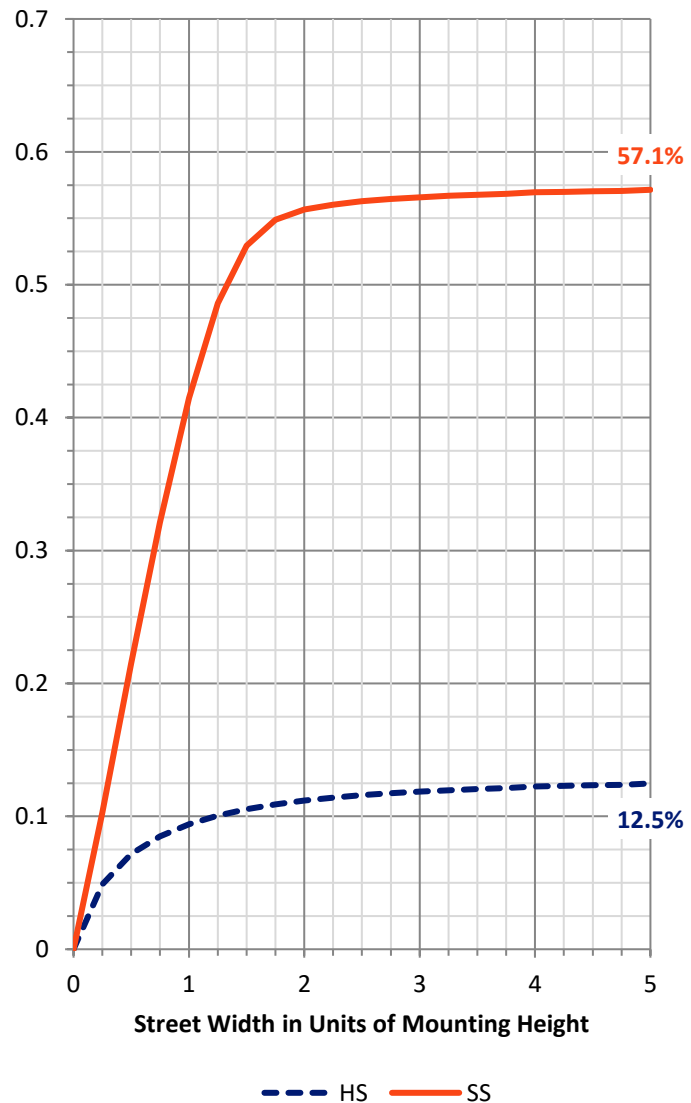
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	766.2	888.9	1655.1
	% Fixture	12.8	14.9	27.8
<b>Street Side</b>	Lumens	3420.2	888.2	4308.4
	% Fixture	57.4	14.9	72.2
<b>Total</b>	Lumens	4186.4	1777.1	5963.5
	% Fixture	70.2	29.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	0.9
10°-20°	163.3	2.7
20°-30°	292.7	4.9
30°-40°	477.9	8.0
40°-50°	706.8	11.9
50°-60°	922.9	15.5
60°-70°	1032.1	17.3
70°-80°	463.4	7.8
80°-90°	73.3	1.2
90°-100°	11.6	0.2
100°-110°	58.7	1.0
110°-120°	169.9	2.8
120°-130°	279.4	4.7
130°-140°	344.6	5.8
140°-150°	352.5	5.9
150°-160°	297.0	5.0
160°-170°	195.5	3.3
170°-180°	67.8	1.1
0°-90°	4186.4	70.2
0°-180°	5963.5	100.0



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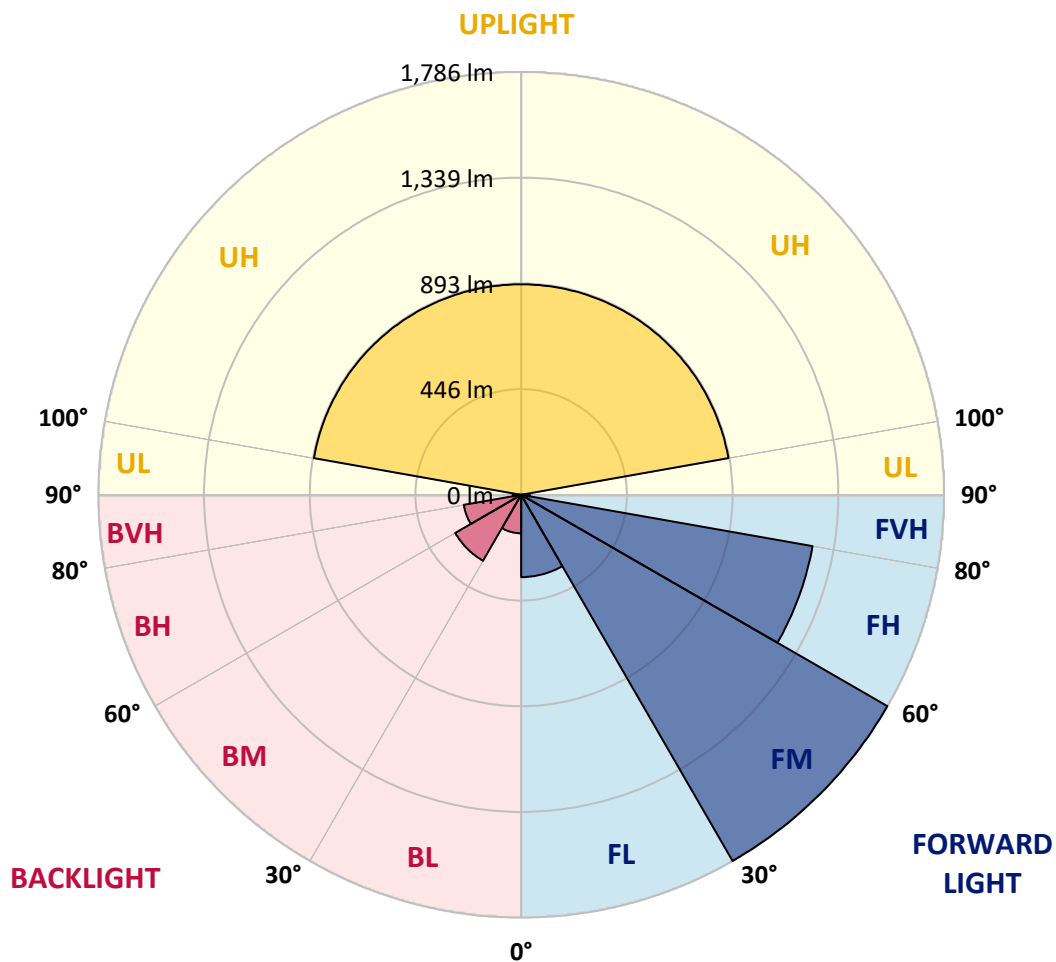
CATALOG NUMBER: IST-AF-600-LED-E1-T2-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.6	5.8			
FM (30°-60°)	1785.8	29.9			
FH (60°-80°)	1249.4	21.0			G1/1800
FVH (80°-90°)	37.4	0.6			G1/100
BL (0°-30°)	162.5	2.7	B1/500		
BM (30°-60°)	321.7	5.4	B1/1000		
BH (60°-80°)	246.1	4.1	B1/500		G1/500
BVH (80°-90°)	35.9	0.6			G1/100
UL (90°-100°)	11.6	0.2		U2/50	
UH (100°-180°)	888.9	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°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4
2.5°	623.7	623.7	621.9	620.6	618.8	614.0	606.7	605.5	604.9	603.6	602.4
5°	669.3	664.4	665.6	662.6	655.9	647.4	634.0	627.4	623.7	623.1	620.6
7.5°	706.3	707.0	705.1	699.1	690.0	679.6	661.3	651.0	648.0	646.2	641.9
10°	733.1	731.3	730.1	728.9	721.6	713.1	690.0	677.2	674.7	669.9	665.0
12.5°	752.6	752.6	752.6	751.4	747.1	740.4	722.2	709.4	706.3	699.7	695.4
15°	773.9	771.4	769.0	767.1	767.7	767.7	754.4	744.7	739.8	736.1	727.6
17.5°	819.5	814.0	808.5	801.2	789.6	786.6	786.0	785.4	778.7	778.1	769.6
20°	858.4	853.4	848.6	841.3	824.9	807.3	816.4	824.9	823.7	824.3	820.0
22.5°	906.3	902.8	893.0	884.4	863.2	841.9	843.1	861.4	863.8	866.2	867.5
25°	972.0	970.2	954.4	937.9	913.7	893.6	874.7	897.2	902.1	907.6	918.5
27.5°	1038.3	1034.0	1017.0	1002.4	972.0	950.7	924.6	936.7	944.1	954.4	971.4
30°	1124.0	1112.5	1106.3	1073.5	1045.6	1014.6	992.1	995.7	994.5	1006.7	1032.8
32.5°	1248.0	1229.8	1199.4	1166.6	1133.7	1092.4	1073.5	1073.0	1069.9	1083.9	1098.4
35°	1314.9	1310.6	1291.8	1258.9	1223.0	1184.2	1172.0	1160.4	1162.3	1169.5	1175.1
37.5°	1387.2	1383.5	1369.0	1350.7	1323.4	1344.7	1277.2	1260.2	1252.3	1248.6	1250.5
40°	1418.8	1421.9	1429.8	1432.8	1417.0	1519.1	1386.0	1330.0	1327.6	1322.2	1316.7
42.5°	1425.5	1433.4	1449.2	1483.9	1499.0	1721.5	1475.9	1408.5	1398.8	1394.5	1395.1
45°	1449.8	1462.0	1465.0	1496.6	1568.4	1731.9	1577.5	1477.8	1470.5	1469.9	1466.2
47.5°	1508.8	1525.2	1525.2	1539.1	1607.3	1751.9	1612.2	1547.1	1542.2	1539.7	1549.5
50°	1517.3	1539.1	1582.9	1627.9	1677.1	1768.4	1651.7	1622.5	1624.2	1629.8	1658.3
52.5°	1373.2	1395.1	1510.6	1643.2	1803.6	1813.4	1711.2	1722.8	1734.9	1761.6	1813.9
55°	1177.5	1193.3	1330.0	1542.2	1808.5	1984.1	1860.7	1893.0	1918.5	1926.4	2008.5
57.5°	927.0	948.9	1088.1	1363.5	1688.7	2032.8	2204.9	2219.4	2190.9	2216.9	2246.8
60°	502.2	499.7	693.6	986.0	1437.0	1942.8	2536.7	2787.1	2793.3	2833.4	2785.4
62.5°	280.8	280.8	336.8	506.4	924.6	1643.8	2696.0	3278.4	3354.4	3418.2	3558.6
65°	212.2	214.0	234.1	305.1	519.1	1037.7	2579.3	3446.1	3592.0	3738.6	3984.7
67.5°	176.3	176.3	190.9	227.4	324.6	471.1	1899.0	3109.4	3291.8	3466.8	3807.2
69°	163.6	164.1	175.0	200.0	271.7	306.4	1311.8	2636.5	2844.9	3087.5	3488.7
70°	157.4	155.6	165.9	186.6	246.2	241.9	961.1	2292.3	2454.1	2671.6	3133.1
72.5°	139.8	138.0	143.4	159.3	194.0	172.7	392.1	1233.4	1477.1	1720.9	2088.8
75°	124.6	122.8	127.1	134.3	150.8	132.0	196.9	516.7	625.5	808.5	1115.5
77.5°	110.1	106.4	110.1	114.9	118.6	98.5	133.7	238.9	293.0	359.9	508.2
80°	99.7	96.1	100.4	97.9	93.0	76.0	88.8	139.2	154.4	184.8	241.9
82.5°	71.1	70.5	95.4	98.5	74.2	55.3	63.2	89.4	99.7	105.2	127.7
85°	43.8	41.9	55.3	70.5	75.4	34.7	40.7	52.9	55.3	60.1	71.1
87.5°	22.5	23.1	29.8	36.5	49.2	20.7	24.3	31.0	31.0	31.0	35.3
90°	10.5	11.8	16.3	21.0	18.5	12.6	16.3	15.4	16.9	15.9	17.5
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	7.7	7.8	7.9	8.1
97.5°	7.2	7.2	8.2	8.2	9.2	9.2	12.3	11.3	11.0	10.8	10.4
100°	8.2	8.2	9.2	10.2	12.3	21.5	29.7	28.1	27.8	27.5	26.9
102.5°	11.3	11.3	13.3	18.4	27.6	40.9	51.1	49.6	49.3	49.0	48.4
105°	21.5	22.5	27.6	36.8	49.1	64.4	73.7	72.6	72.4	72.2	71.8
107.5°	41.9	43.0	50.1	59.3	74.7	90.0	97.2	96.7	96.6	96.5	96.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
110°	67.5	69.6	75.7	89.0	104.3	116.6	122.8	123.3	123.4	123.5	123.7
112.5°	101.3	101.3	108.4	123.8	137.1	146.3	151.4	152.4	152.6	152.8	153.2
115°	143.2	142.2	150.4	162.6	171.9	178.0	183.1	184.6	184.9	185.3	185.9
117.5°	188.2	188.2	193.3	201.5	206.6	209.7	215.8	217.9	218.3	218.7	219.5
120°	230.2	228.1	231.2	238.3	242.4	248.6	251.6	253.7	254.1	254.5	255.3
122.5°	269.0	266.0	267.0	273.1	277.2	283.4	285.4	287.4	287.9	288.3	289.1
125°	304.8	300.7	302.8	305.9	312.0	317.1	320.2	321.2	321.4	321.6	322.0
127.5°	337.6	336.6	336.6	340.6	346.8	347.8	352.9	353.4	353.5	353.6	353.8
130°	371.3	369.3	370.3	374.4	378.5	380.5	385.7	387.7	388.1	388.5	389.3
132.5°	405.1	403.0	402.0	410.2	413.3	414.3	420.4	423.0	423.5	424.0	425.0
135°	438.8	435.8	435.8	441.9	445.0	447.0	453.2	455.7	456.2	456.7	457.8
137.5°	470.6	467.5	469.5	470.6	474.6	478.7	483.9	484.9	485.1	485.3	485.7
140°	499.2	496.1	498.2	500.2	502.3	508.4	511.5	512.5	512.7	512.9	513.3
142.5°	529.9	526.8	528.9	529.9	533.0	537.0	539.1	542.2	542.8	543.4	544.6
145°	562.6	558.5	556.5	559.6	562.6	563.6	568.8	571.8	572.4	573.1	574.3
147.5°	588.2	585.1	584.1	587.2	587.2	588.2	593.3	595.9	596.4	596.9	597.9
150°	608.7	605.6	606.6	606.6	606.6	606.6	610.7	612.2	612.5	612.8	613.5
152.5°	625.0	622.0	622.0	623.0	624.0	624.0	625.0	626.6	626.9	627.2	627.8
155°	643.4	639.3	639.3	641.4	644.5	642.4	640.4	642.9	643.4	643.9	645.0
157.5°	660.8	657.8	657.8	658.8	660.8	659.8	658.8	660.8	661.2	661.6	662.5
160°	678.2	675.1	674.1	671.1	670.0	670.0	673.1	676.2	676.8	677.4	678.6
162.5°	688.4	684.4	684.4	680.3	676.2	678.2	682.3	684.4	684.8	685.2	686.0
165°	696.6	693.6	691.5	691.5	688.4	688.4	687.4	690.0	690.5	691.0	692.0
167.5°	705.8	702.8	699.7	701.7	703.8	700.7	693.6	696.6	697.2	697.9	699.1
170°	714.0	711.0	707.9	707.9	708.9	706.9	701.7	703.3	703.6	703.9	704.5
172.5°	715.0	713.0	711.0	708.9	705.8	705.8	704.8	706.3	706.7	707.0	707.6
175°	716.1	714.0	713.0	711.0	706.9	705.8	705.8	708.4	708.9	709.4	710.4
177.5°	723.2	721.2	716.1	715.0	713.0	711.0	709.9	712.5	713.0	713.5	714.5
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4
2.5°	603.0	601.2	598.7	599.3	598.1	596.4	597.0	596.4	597.0	595.8	594.5
5°	620.6	619.4	615.8	615.2	614.0	612.7	610.9	609.1	608.5	607.3	604.9
7.5°	640.7	637.1	635.3	632.8	629.7	624.9	624.3	621.9	620.0	618.8	615.8
10°	661.3	657.1	654.7	651.6	648.7	645.6	642.5	638.3	634.0	632.8	629.2
12.5°	692.4	686.9	682.1	677.2	674.1	668.7	664.4	659.0	654.7	652.8	646.8
15°	726.4	719.1	714.2	710.6	705.7	700.9	695.4	690.6	683.8	678.4	672.9
17.5°	766.6	759.8	756.2	749.5	743.5	738.0	733.8	727.6	722.2	712.5	707.6
20°	819.5	814.0	809.7	802.4	795.8	790.2	786.6	773.9	766.6	758.0	750.1
22.5°	868.7	869.3	865.0	860.2	855.9	848.6	842.5	833.4	824.3	814.0	803.0
25°	922.2	927.0	927.6	926.4	924.0	915.4	912.5	903.4	896.0	879.0	874.1
27.5°	981.7	987.2	993.9	1002.4	1004.2	995.1	999.4	990.2	977.5	970.2	954.4
30°	1039.5	1054.7	1068.7	1078.4	1084.4	1088.7	1085.7	1082.7	1074.1	1062.0	1048.0
32.5°	1113.7	1129.4	1143.5	1164.7	1175.7	1189.1	1186.6	1187.9	1184.8	1172.6	1156.2
35°	1188.5	1202.4	1220.7	1234.6	1261.4	1275.9	1288.1	1287.5	1287.5	1280.2	1264.4
37.5°	1254.6	1262.6	1277.8	1300.9	1318.5	1341.6	1361.0	1369.0	1381.7	1382.3	1365.3
40°	1324.0	1331.9	1343.4	1360.4	1380.0	1407.3	1433.4	1458.9	1471.1	1483.9	1477.1
42.5°	1398.8	1407.3	1415.8	1426.7	1454.6	1475.9	1511.2	1545.9	1570.7	1596.9	1593.9
45°	1472.9	1482.7	1494.8	1511.2	1536.2	1570.7	1604.8	1643.8	1700.9	1731.9	1753.1
47.5°	1556.8	1572.6	1595.1	1621.3	1641.3	1677.1	1720.3	1780.5	1838.2	1891.7	1925.2
50°	1683.3	1689.3	1725.8	1751.3	1789.7	1826.1	1869.2	1922.1	1996.9	2051.6	2105.1
52.5°	1832.2	1855.3	1891.7	1920.9	1951.3	1987.8	2032.2	2079.6	2153.7	2215.2	2284.5
55°	2024.3	2057.1	2088.8	2104.5	2147.1	2179.9	2215.7	2262.6	2342.3	2409.0	2490.6
57.5°	2253.5	2286.3	2301.4	2324.6	2342.8	2379.3	2427.9	2459.5	2530.1	2599.3	2685.7
60°	2723.9	2703.2	2721.6	2685.7	2680.2	2683.2	2693.5	2717.9	2757.4	2821.8	2913.1
62.5°	3573.2	3543.4	3464.3	3435.8	3380.4	3305.7	3235.2	3225.5	3204.8	3253.4	3310.6
65°	4069.2	4177.4	4189.0	4219.4	4197.5	4139.2	4056.4	4029.7	3962.8	3916.1	3913.0
67.5°	3950.1	4112.4	4213.9	4342.1	4413.3	4482.6	4500.8	4524.5	4481.3	4460.1	4466.2
69°	3618.8	3739.1	3966.5	4054.1	4166.5	4258.9	4380.5	4401.8	4443.7	4449.7	4530.6
70°	3290.5	3467.4	3597.5	3728.8	3884.5	3985.9	4040.7	4130.6	4234.6	4285.7	4373.1
72.5°	2365.9	2423.7	2516.0	2686.3	2729.4	2834.6	2942.2	3018.8	3141.0	3227.3	3433.3
75°	1276.5	1311.2	1456.5	1553.1	1578.7	1613.3	1692.4	1711.2	1756.8	1784.7	1983.0
77.5°	583.0	635.9	654.7	707.6	677.8	692.4	711.3	707.0	719.7	780.5	849.9
80°	268.7	279.1	286.3	308.2	309.4	304.5	306.4	303.3	301.0	310.7	317.9
82.5°	130.7	146.5	146.5	159.9	166.5	164.7	168.4	167.2	169.6	167.2	175.0
85°	76.6	76.6	82.7	89.9	88.8	91.1	91.1	96.1	96.7	97.9	97.9
87.5°	35.9	39.5	41.3	44.4	45.6	47.5	48.6	48.6	49.2	48.0	49.2
90°	18.3	18.3	24.4	24.4	25.6	27.4	25.1	26.2	30.5	25.1	29.3
92.5°	7.2	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.1
95°	8.2	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.2
97.5°	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2
100°	26.6	26.3	26.0	25.7	25.4	25.1	24.8	24.4	24.1	23.8	23.5
102.5°	48.1	47.6	47.1	46.5	46.0	45.5	45.0	44.5	44.0	43.5	43.0
105°	71.6	71.1	70.6	70.1	69.6	69.0	68.5	68.0	67.5	67.0	66.5
107.5°	96.2	95.7	95.3	94.9	94.5	94.1	93.7	93.3	92.9	92.5	92.1



REPORT NUMBER: P226305

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

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
110°	123.8	123.6	123.4	123.2	123.0	122.8	122.5	122.3	122.1	121.9	121.7
112.5°	153.4	153.3	153.2	153.1	153.0	152.9	152.8	152.7	152.6	152.5	152.4
115°	186.2	185.9	185.6	185.3	184.9	184.6	184.3	184.0	183.7	183.4	183.1
117.5°	219.9	219.4	218.9	218.4	217.9	217.4	216.9	216.4	215.8	215.3	214.8
120°	255.7	255.2	254.7	254.2	253.7	253.2	252.7	252.2	251.6	251.1	250.6
122.5°	289.5	289.0	288.5	288.0	287.4	286.9	286.4	285.9	285.4	284.9	284.4
125°	322.2	321.7	321.2	320.7	320.2	319.7	319.2	318.6	318.1	317.6	317.1
127.5°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9
130°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7
132.5°	425.5	425.3	425.1	424.9	424.7	424.5	424.3	424.1	423.9	423.7	423.5
135°	458.3	458.2	458.1	458.0	457.9	457.8	457.7	457.6	457.5	457.4	457.3
137.5°	485.9	486.0	486.1	486.2	486.3	486.4	486.5	486.6	486.7	486.8	486.9
140°	513.5	513.7	513.9	514.1	514.3	514.5	514.7	515.0	515.2	515.4	515.6
142.5°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
145°	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2	574.1	574.0	573.9
147.5°	598.4	598.5	598.6	598.7	598.8	598.9	599.0	599.1	599.2	599.3	599.4
150°	613.8	614.1	614.4	614.7	615.0	615.3	615.6	615.9	616.2	616.5	616.8
152.5°	628.1	628.5	628.9	629.3	629.7	630.1	630.5	631.0	631.4	631.8	632.2
155°	645.5	646.0	646.5	647.0	647.5	648.0	648.6	649.1	649.6	650.1	650.6
157.5°	662.9	663.1	663.3	663.5	663.7	663.9	664.1	664.3	664.5	664.7	664.9
160°	679.2	678.9	678.6	678.3	678.0	677.7	677.4	677.1	676.8	676.5	676.2
162.5°	686.4	686.3	686.2	686.1	686.0	685.9	685.8	685.7	685.6	685.5	685.4
165°	692.5	692.8	693.2	693.5	693.8	694.1	694.4	694.7	695.0	695.3	695.6
167.5°	699.7	700.1	700.5	700.9	701.3	701.7	702.2	702.6	703.0	703.4	703.8
170°	704.8	705.3	705.8	706.3	706.9	707.4	707.9	708.4	708.9	709.4	709.9
172.5°	707.9	708.1	708.3	708.5	708.7	708.9	709.1	709.3	709.5	709.7	709.9
175°	711.0	711.1	711.2	711.3	711.4	711.5	711.6	711.7	711.8	711.9	712.0
177.5°	715.0	715.2	715.5	715.7	715.9	716.1	716.3	716.5	716.7	716.9	717.1
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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CATALOG NUMBER: IST-AF-600-LED-E1-T2-ULG

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4
2.5°	593.3	594.5	593.9	591.5	590.9	590.9	589.6	589.0	587.8	587.2	588.4
5°	604.3	604.3	602.4	600.0	597.5	597.0	596.4	593.3	592.1	590.9	589.6
7.5°	614.6	613.4	610.9	606.7	604.3	603.6	601.2	598.1	595.2	592.7	591.5
10°	625.5	624.3	619.4	616.4	611.5	610.9	606.7	603.0	600.0	597.0	594.5
12.5°	641.3	640.1	634.6	627.4	623.7	621.2	615.8	611.5	607.3	603.6	599.3
15°	665.6	660.8	657.1	649.9	644.4	639.5	632.8	626.8	620.6	614.6	610.9
17.5°	699.7	692.9	683.2	679.0	671.7	663.8	654.7	650.4	642.5	635.3	628.0
20°	744.1	737.3	722.2	716.7	706.3	694.8	687.5	678.4	671.7	660.2	652.2
22.5°	793.3	787.3	772.6	758.0	748.3	739.2	727.6	716.1	703.3	692.4	683.8
25°	857.1	848.0	835.2	820.6	806.1	793.3	777.4	761.1	750.1	735.0	722.8
27.5°	944.1	928.2	906.9	891.2	879.6	860.2	840.8	826.1	809.1	789.0	775.7
30°	1038.3	1020.6	1004.8	986.6	967.2	948.3	921.6	900.3	882.1	860.8	838.9
32.5°	1142.8	1127.6	1105.2	1081.5	1060.2	1036.5	1017.0	994.5	962.9	940.4	917.3
35°	1248.0	1230.4	1207.3	1187.2	1162.9	1138.5	1116.7	1086.9	1058.3	1026.1	993.9
37.5°	1349.5	1334.3	1308.8	1278.4	1257.1	1231.0	1208.5	1176.9	1142.8	1106.9	1082.7
40°	1462.6	1438.3	1420.7	1385.4	1363.5	1334.3	1302.1	1277.8	1244.9	1206.1	1171.4
42.5°	1592.0	1575.0	1556.2	1527.7	1504.6	1469.9	1429.2	1398.2	1367.8	1321.6	1273.6
45°	1756.2	1745.3	1714.3	1691.1	1660.1	1623.6	1588.4	1550.7	1502.7	1449.2	1405.4
47.5°	1953.1	1944.6	1916.7	1883.9	1843.2	1793.8	1761.0	1709.4	1668.6	1601.8	1549.5
50°	2131.8	2136.1	2120.9	2070.5	2034.0	1984.7	1933.1	1888.1	1825.5	1756.2	1689.3
52.5°	2345.2	2341.0	2302.7	2274.7	2231.6	2172.0	2115.5	2057.7	1989.0	1917.3	1834.0
55°	2549.5	2562.3	2535.5	2496.0	2443.7	2360.5	2303.3	2228.5	2156.2	2077.2	1981.1
57.5°	2747.6	2788.4	2767.7	2720.9	2667.4	2607.2	2531.9	2448.0	2373.2	2269.8	2161.7
60°	2994.5	3048.6	3057.1	3026.7	2968.3	2898.4	2799.3	2733.7	2630.9	2535.5	2452.2
62.5°	3374.4	3497.2	3489.9	3504.5	3463.2	3420.0	3303.9	3233.3	3099.6	3030.9	2914.8
65°	4009.0	4099.6	4208.4	4204.7	4176.2	4072.9	3952.5	3834.5	3746.5	3610.9	3489.9
67.5°	4541.6	4616.4	4680.7	4647.4	4581.7	4465.6	4324.5	4160.4	4026.0	3876.5	3717.8
69°	4591.4	4682.6	4720.3	4679.0	4561.0	4409.6	4271.6	4119.1	3934.3	3806.0	3612.7
70°	4457.7	4547.6	4623.6	4517.2	4409.0	4261.3	4110.5	3951.9	3786.6	3648.6	3453.4
72.5°	3540.9	3642.5	3632.2	3620.6	3534.3	3386.6	3248.0	3162.9	3046.8	2880.2	2739.2
75°	2058.9	2105.7	2023.7	2109.9	2006.6	1857.7	1877.2	1781.2	1696.1	1600.0	1525.8
77.5°	808.5	849.9	806.7	792.7	746.4	736.1	659.0	668.1	629.7	554.4	519.8
80°	306.4	311.9	304.5	289.4	286.3	268.7	263.8	246.8	238.9	214.0	204.9
82.5°	164.7	167.8	163.0	158.0	154.4	144.0	137.4	124.6	117.3	109.5	108.8
85°	94.8	92.4	89.9	87.6	82.0	76.0	71.1	66.3	60.8	56.6	52.3
87.5°	49.8	50.4	51.0	48.6	45.0	40.1	37.0	35.3	31.0	29.2	27.3
90°	25.4	21.0	22.6	26.0	24.6	21.4	20.6	18.5	16.5	16.3	14.4
92.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
95°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
97.5°	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.2
100°	23.1	22.7	22.3	21.9	21.5	21.1	20.7	20.3	19.8	19.4	19.4
102.5°	42.7	42.4	42.0	41.7	41.4	41.1	40.8	40.5	40.2	39.9	39.7
105°	66.1	65.7	65.3	64.9	64.4	64.0	63.6	63.2	62.8	62.4	62.4
107.5°	91.8	91.5	91.1	90.8	90.5	90.2	89.9	89.6	89.3	89.0	88.8

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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°	
110°	121.4	121.1	120.8	120.5	120.2	119.9	119.6	119.3	119.0	118.7	118.9	0°
112.5°	152.2	152.0	151.8	151.6	151.4	151.2	151.0	150.8	150.6	150.4	150.4	2.5°
115°	182.9	182.7	182.5	182.3	182.1	181.9	181.7	181.5	181.3	181.1	181.3	5°
117.5°	214.6	214.4	214.2	214.0	213.8	213.6	213.4	213.2	213.0	212.8	213.0	7.5°
120°	250.4	250.2	250.0	249.8	249.6	249.4	249.2	249.0	248.8	248.6	248.6	10°
122.5°	284.2	284.0	283.8	283.6	283.4	283.2	282.9	282.7	282.5	282.3	282.5	12.5°
125°	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	317.1	15°
127.5°	353.8	353.7	353.6	353.5	353.4	353.3	353.2	353.1	353.0	352.9	353.3	17.5°
130°	389.5	389.3	389.1	388.9	388.7	388.5	388.3	388.1	387.9	387.7	387.9	20°
132.5°	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.5	423.7	22.5°
135°	457.6	457.9	458.2	458.5	458.8	459.1	459.4	459.7	460.0	460.3	460.5	25°
137.5°	487.4	487.9	488.5	489.0	489.5	490.0	490.5	491.0	491.5	492.0	492.2	27.5°
140°	516.1	516.6	517.1	517.6	518.1	518.6	519.1	519.7	520.2	520.7	521.1	30°
142.5°	545.3	545.4	545.5	545.6	545.7	545.8	545.9	546.1	546.2	546.3	546.7	32.5°
145°	573.6	573.3	573.0	572.6	572.3	572.0	571.7	571.4	571.1	570.8	571.2	35°
147.5°	599.1	598.8	598.5	598.2	597.9	597.6	597.3	597.0	596.7	596.4	596.8	37.5°
150°	617.1	617.5	617.8	618.1	618.4	618.7	619.0	619.3	619.6	619.9	620.7	40°
152.5°	632.7	633.2	633.7	634.2	634.7	635.3	635.8	636.3	636.8	637.3	638.3	42.5°
155°	650.8	651.0	651.2	651.4	651.6	651.8	652.0	652.2	652.4	652.6	653.3	45°
157.5°	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	664.9	665.9	47.5°
160°	676.1	676.0	675.9	675.8	675.7	675.6	675.5	675.4	675.2	675.1	676.4	50°
162.5°	685.2	685.0	684.8	684.6	684.4	684.1	683.9	683.7	683.5	683.3	684.6	52.5°
165°	695.4	695.2	695.0	694.8	694.6	694.4	694.2	694.0	693.8	693.6	694.4	55°
167.5°	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8	705.0	57.5°
170°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	60°
172.5°	710.1	710.3	710.5	710.7	711.0	711.2	711.4	711.6	711.8	712.0	713.0	62.5°
175°	711.8	711.6	711.4	711.2	711.0	710.7	710.5	710.3	710.1	709.9	711.0	65°
177.5°	716.8	716.5	716.2	715.9	715.6	715.2	714.9	714.6	714.3	714.0	714.8	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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REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	582.4	110°	119.1
586.7	586.7	584.8	583.6	579.3	572.0	564.8	558.0	548.9	545.2	540.4	112.5°	150.4
588.4	587.2	585.4	583.0	574.5	557.4	539.8	521.0	501.6	483.9	463.2	115°	181.5
589.6	587.2	584.8	581.8	569.6	543.5	508.2	471.1	436.5	410.3	399.4	117.5°	213.2
590.2	588.4	585.4	581.1	564.2	525.2	468.7	415.2	384.8	374.5	372.7	120°	248.6
597.0	593.9	589.0	584.2	561.7	505.1	424.3	373.3	361.1	365.9	374.5	122.5°	282.7
605.5	601.8	595.8	590.9	560.5	479.0	381.2	349.5	353.8	367.1	381.2	125°	317.1
620.6	614.6	607.9	603.0	562.9	446.8	346.5	337.4	350.2	367.1	386.1	127.5°	353.7
643.1	634.6	626.8	618.3	566.5	406.7	325.8	329.5	344.6	362.9	383.6	130°	388.1
671.2	661.3	650.4	637.7	570.8	372.0	314.3	321.0	334.9	350.8	367.8	132.5°	423.9
708.8	695.4	681.5	665.6	576.8	334.3	303.9	311.3	319.8	328.9	337.4	135°	460.7
756.2	738.0	722.8	701.5	583.0	308.8	295.4	297.9	299.7	301.0	300.3	137.5°	492.4
819.5	791.5	773.9	747.7	589.6	295.4	285.7	282.6	279.7	275.4	270.5	140°	521.5
886.3	863.2	835.2	801.8	593.9	286.3	276.6	266.9	258.4	254.1	254.1	142.5°	547.1
964.1	935.6	900.3	858.4	588.4	276.6	264.4	251.6	246.8	252.3	250.4	145°	571.6
1041.9	1002.4	963.5	915.4	575.1	265.7	251.0	244.4	248.1	240.7	236.5	147.5°	597.2
1127.6	1083.9	1029.8	973.8	555.6	254.1	244.4	248.1	235.3	226.8	230.4	150°	621.5
1223.7	1172.0	1113.7	1037.7	542.9	246.8	234.1	237.1	226.2	220.0	218.2	152.5°	639.3
1354.4	1280.8	1209.7	1120.3	552.6	235.3	214.0	226.2	220.0	214.6	209.7	155°	653.9
1482.7	1404.2	1320.3	1215.2	569.6	226.8	198.1	214.6	218.8	209.7	200.6	157.5°	667.0
1611.6	1528.2	1430.4	1313.1	590.2	221.3	186.0	200.6	215.8	204.9	197.5	160°	677.6
1747.1	1641.9	1541.6	1415.2	617.0	215.8	176.3	188.4	210.3	204.9	194.0	162.5°	685.8
1889.3	1765.3	1665.1	1528.2	663.8	207.9	164.1	178.7	204.9	204.3	190.3	165°	695.2
2054.7	1944.0	1815.1	1676.0	728.9	198.8	153.2	171.4	200.0	201.8	186.0	167.5°	706.2
2336.1	2221.8	2066.3	1933.7	857.7	186.6	146.5	164.1	192.1	196.9	182.4	170°	714.0
2792.7	2637.1	2494.2	2370.2	1078.4	169.6	141.7	156.2	183.6	190.9	179.3	172.5°	714.0
3316.0	3164.1	2991.4	2782.9	1201.1	153.7	134.9	146.5	175.0	184.8	176.3	175°	712.0
3538.5	3339.7	3130.0	2882.6	1083.9	141.1	127.7	137.4	165.3	176.3	172.1	177.5°	715.7
3436.4	3235.2	2991.4	2748.9	942.9	134.3	123.4	132.5	158.0	170.8	167.8	180°	716.1
3258.9	3056.5	2838.9	2547.7	841.9	130.7	120.4	129.5	155.0	167.8	165.3		
2577.4	2396.9	2196.3	1974.4	573.9	118.6	110.7	120.4	142.8	156.8	156.2		
1365.9	1313.1	1164.7	1034.6	297.3	105.8	100.4	110.1	132.0	146.5	146.5		
491.7	446.2	426.8	354.4	158.0	92.4	89.9	97.3	119.8	133.7	133.1		
186.0	181.2	162.3	152.0	100.4	75.4	76.0	83.3	105.2	118.6	117.9		
105.2	95.4	92.4	89.4	63.8	59.5	62.6	69.9	89.9	101.5	103.3		
50.4	46.9	45.6	42.6	41.9	45.6	49.2	55.3	71.7	85.7	83.9		
24.3	23.1	22.5	21.9	29.8	29.2	35.9	38.3	48.0	68.1	61.4		
15.0	15.0	14.4	13.2	15.7	18.9	20.8	23.5	27.2	47.7	40.4		
6.1	6.1	6.1	6.1	6.1	6.1	7.2	7.2	6.1	6.1	6.1		
7.2	7.2	7.2	7.2	7.2	7.2	8.2	7.2	7.2	7.2	7.2		
8.2	8.2	8.2	8.2	8.2	9.2	10.2	12.3	9.2	9.2	8.2		
19.4	19.4	19.4	19.4	19.4	23.5	26.6	29.7	21.5	12.3	10.2		
39.5	39.3	39.1	38.9	39.9	43.0	48.1	51.1	40.9	27.6	18.4		
62.4	62.4	62.4	62.4	62.4	66.5	71.6	73.7	64.4	49.1	36.8		
88.6	88.4	88.2	88.0	89.0	92.1	96.2	97.2	90.0	74.7	59.3		

'226305  
 IST-AF-600-LED-E1-T2-ULG

REPORT NUMBER: P226305  
 CATALOG NUMBER: IST-AF-60

**TION (continued):**

**CANDELA DISTRIBUTION (con**

88°	89°	90°	95°	105°	115°	125°	135°	145°	155°		165°	175°
119.3	119.5	119.7	118.7	121.7	123.8	122.8	116.6	104.3	89.0	0°	582.4	582.4
150.4	150.4	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	2.5°	536.1	527.6
181.7	181.9	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	5°	448.1	446.8
213.4	213.6	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	7.5°	392.7	384.8
248.6	248.6	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	10°	374.5	373.9
282.9	283.2	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	12.5°	382.4	384.2
317.1	317.1	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	15°	392.7	396.4
354.1	354.6	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	17.5°	399.4	406.1
388.3	388.5	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	20°	397.5	405.5
424.1	424.3	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	22.5°	377.5	381.2
460.9	461.1	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	25°	341.7	342.9
492.7	492.9	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	27.5°	298.5	297.3
521.9	522.3	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	30°	268.1	260.1
547.5	547.9	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	32.5°	254.1	249.2
572.0	572.4	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	35°	244.4	236.5
597.6	598.0	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	37.5°	253.5	252.9
622.4	623.2	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	40°	262.0	260.8
640.4	641.4	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	42.5°	247.5	236.5
654.5	655.1	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	45°	220.7	207.9
668.0	669.0	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	47.5°	202.4	195.2
678.8	680.1	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	50°	194.0	191.5
687.0	688.2	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	52.5°	191.5	197.5
696.0	696.8	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	55°	190.3	196.9
707.5	708.7	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	57.5°	181.8	193.3
715.0	716.1	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	60°	175.6	189.7
715.0	716.1	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	62.5°	172.1	187.8
713.0	714.0	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	65°	169.0	189.0
716.5	717.3	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	67.5°	164.1	192.7
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°	161.7	192.1
										70°	159.3	190.3
										72.5°	150.8	175.6
										75°	140.5	155.0
										77.5°	127.1	133.1
										80°	112.4	116.1
										82.5°	97.9	111.8
										85°	76.6	94.8
										87.5°	56.6	52.3
										90°	39.4	28.8
										92.5°	5.1	4.1
										95°	6.1	5.1
										97.5°	8.2	7.2
										100°	9.2	8.2
										102.5°	13.3	11.3
										105°	27.6	22.5
										107.5°	50.1	43.0



REPORT NUMBER: P226305

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

0-LED-E1-T2-ULG

**tinued):**

180°
582.4
529.5
443.1
385.4
375.6
383.0
397.5
408.5
407.2
384.2
344.0
302.1
266.3
254.7
240.1
255.9
263.2
238.9
207.9
194.0
190.3
199.4
196.3
194.0
190.3
187.2
186.6
187.8
185.4
182.4
164.1
147.7
133.1
117.3
99.1
74.2
56.6
25.2
4.1
5.1
7.2
8.2
11.3
21.5
41.9

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
110°	75.7	69.6	67.5
112.5°	108.4	101.3	101.3
115°	150.4	142.2	143.2
117.5°	193.3	188.2	188.2
120°	231.2	228.1	230.2
122.5°	267.0	266.0	269.0
125°	302.8	300.7	304.8
127.5°	336.6	336.6	337.6
130°	370.3	369.3	371.3
132.5°	402.0	403.0	405.1
135°	435.8	435.8	438.8
137.5°	469.5	467.5	470.6
140°	498.2	496.1	499.2
142.5°	528.9	526.8	529.9
145°	556.5	558.5	562.6
147.5°	584.1	585.1	588.2
150°	606.6	605.6	608.7
152.5°	622.0	622.0	625.0
155°	639.3	639.3	643.4
157.5°	657.8	657.8	660.8
160°	674.1	675.1	678.2
162.5°	684.4	684.4	688.4
165°	691.5	693.6	696.6
167.5°	699.7	702.8	705.8
170°	707.9	711.0	714.0
172.5°	711.0	713.0	715.0
175°	713.0	714.0	716.1
177.5°	716.1	721.2	723.2
180°	716.1	716.1	716.1

(END OF F

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

Scaled Data Report

