

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: P226303

Luminaire Tested: **IST-AF-800-LED-E1-T2-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226303  
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-800-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**

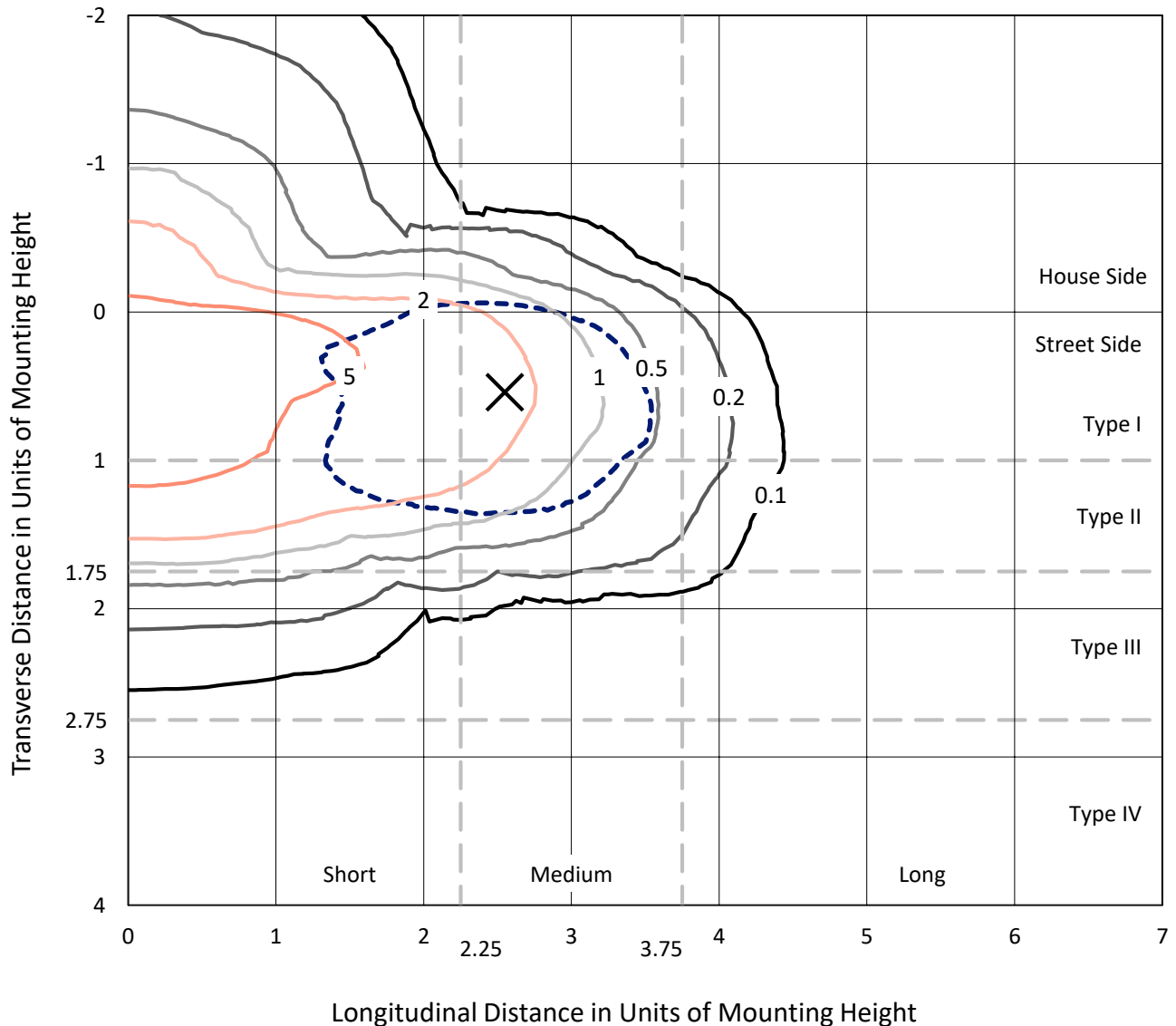
Lumens per Lamp: N/A  
Luminaire Lumens: 6860.3 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 60.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

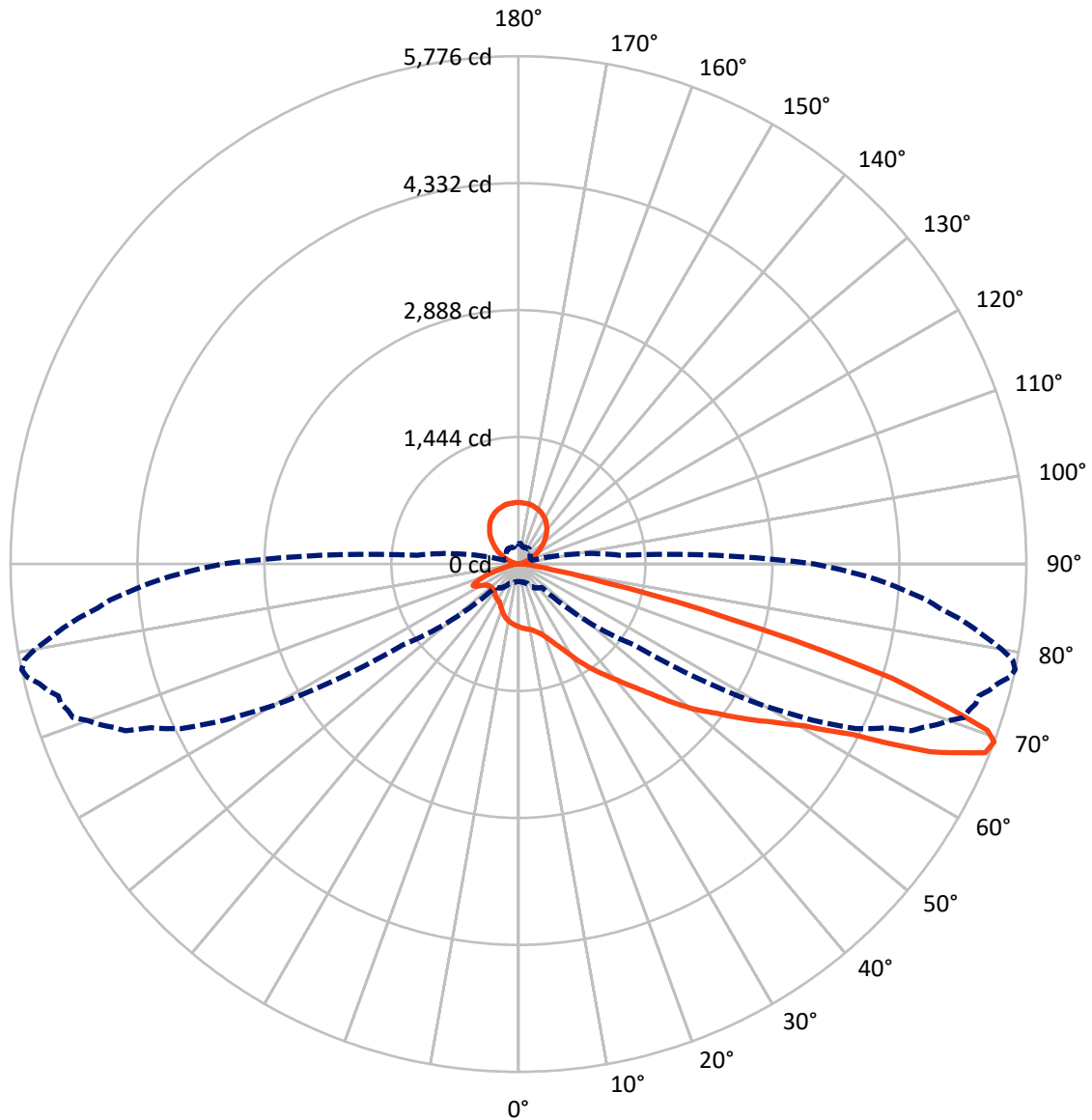
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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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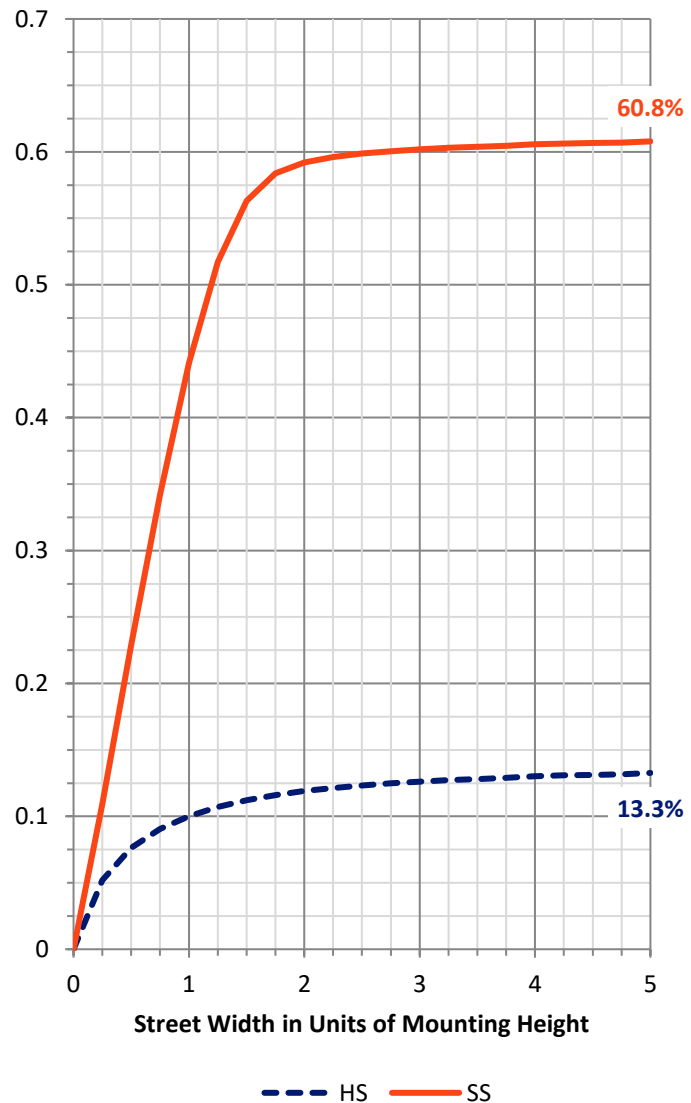
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	937.4	869.4	1806.7
	% Fixture	13.7	12.7	26.3
<b>Street Side</b>	Lumens	4185.2	868.4	5053.6
	% Fixture	61.0	12.7	73.7
<b>Total</b>	Lumens	5122.6	1737.8	6860.3
	% Fixture	74.7	25.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	1.0
10°-20°	199.8	2.9
20°-30°	358.2	5.2
30°-40°	584.7	8.5
40°-50°	864.9	12.6
50°-60°	1129.3	16.5
60°-70°	1263.0	18.4
70°-80°	567.0	8.3
80°-90°	89.5	1.3
90°-100°	11.9	0.2
100°-110°	57.4	0.8
110°-120°	166.1	2.4
120°-130°	273.2	4.0
130°-140°	336.8	4.9
140°-150°	344.6	5.0
150°-160°	290.3	4.2
160°-170°	191.2	2.8
170°-180°	66.3	1.0
0°-90°	5122.6	74.7
0°-180°	6860.3	100.0



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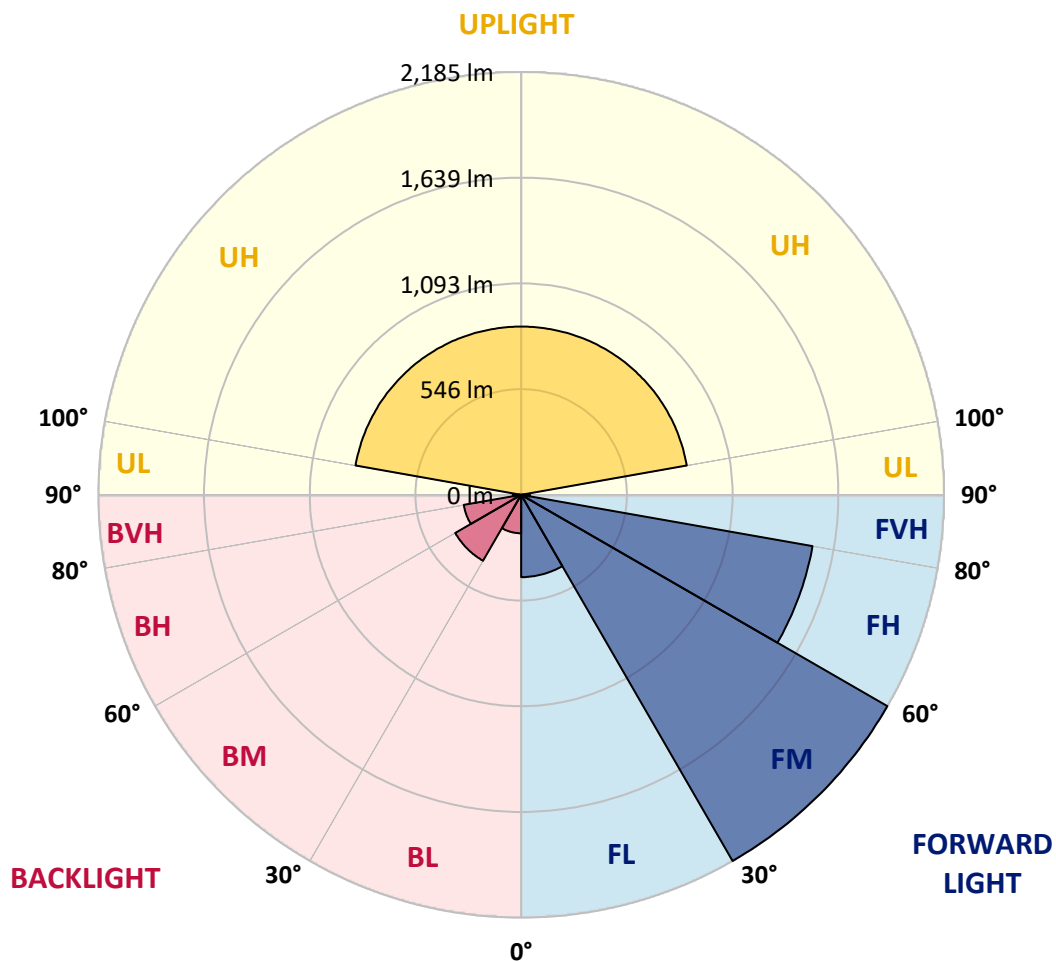
CATALOG NUMBER: IST-AF-800-LED-E1-T2-7050-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.4	6.2			
FM (30°-60°)	2185.3	31.9			
FH (60°-80°)	1528.9	22.3			G1/1800
FVH (80°-90°)	45.7	0.7			G1/100
BL (0°-30°)	198.8	2.9	B1/500		
BM (30°-60°)	393.6	5.7	B1/1000		
BH (60°-80°)	301.1	4.4	B1/500		G1/500
BVH (80°-90°)	43.8	0.6			G1/100
UL (90°-100°)	11.9	0.2		U2/50	
UH (100°-180°)	869.4	12.7		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°	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6
2.5°	763.2	763.2	761.0	759.5	757.3	751.3	742.4	740.9	740.1	738.7	737.2
5°	819.0	813.0	814.5	810.8	802.6	792.2	775.9	767.7	763.2	762.5	759.5
7.5°	864.4	865.1	862.9	855.4	844.3	831.6	809.3	796.7	793.0	790.7	785.5
10°	897.1	894.9	893.4	891.9	883.0	872.6	844.3	828.7	825.7	819.7	813.8
12.5°	920.9	920.9	920.9	919.4	914.2	906.0	883.7	868.1	864.4	856.2	851.0
15°	946.9	944.0	941.0	938.8	939.5	939.5	923.1	911.2	905.3	900.8	890.4
17.5°	1002.7	996.0	989.3	980.4	966.3	962.6	961.8	961.1	952.9	952.2	941.7
20°	1050.3	1044.4	1038.4	1029.5	1009.4	987.9	999.0	1009.4	1007.9	1008.7	1003.5
22.5°	1109.1	1104.6	1092.7	1082.3	1056.3	1030.3	1031.7	1054.1	1057.0	1060.0	1061.5
25°	1189.4	1187.2	1167.9	1147.8	1118.0	1093.5	1070.4	1097.9	1103.9	1110.6	1124.0
27.5°	1270.5	1265.3	1244.5	1226.6	1189.4	1163.4	1131.4	1146.3	1155.2	1167.9	1188.7
30°	1375.4	1361.3	1353.8	1313.7	1279.5	1241.5	1214.0	1218.5	1217.0	1231.8	1263.8
32.5°	1527.2	1504.8	1467.7	1427.5	1387.3	1336.7	1313.7	1312.9	1309.2	1326.3	1344.2
35°	1609.0	1603.8	1580.7	1540.5	1496.7	1449.1	1434.2	1420.0	1422.3	1431.2	1437.9
37.5°	1697.5	1693.0	1675.2	1652.9	1619.4	1645.4	1562.9	1542.0	1532.4	1527.9	1530.1
40°	1736.2	1739.9	1749.6	1753.3	1734.0	1858.9	1696.0	1627.6	1624.6	1617.9	1611.2
42.5°	1744.4	1754.0	1773.4	1815.8	1834.4	2106.6	1806.1	1723.5	1711.6	1706.4	1707.2
45°	1774.1	1789.0	1792.7	1831.4	1919.2	2119.3	1930.3	1808.3	1799.4	1798.7	1794.2
47.5°	1846.3	1866.4	1866.4	1883.5	1966.8	2143.8	1972.7	1893.1	1887.2	1884.2	1896.1
50°	1856.7	1883.5	1937.0	1992.1	2052.3	2163.9	2021.1	1985.4	1987.6	1994.3	2029.3
52.5°	1680.4	1707.2	1848.5	2010.7	2207.1	2219.0	2094.0	2108.1	2123.0	2155.7	2219.7
55°	1440.9	1460.2	1627.6	1887.2	2213.0	2428.0	2277.0	2316.4	2347.6	2357.3	2457.7
57.5°	1134.4	1161.2	1331.5	1668.5	2066.5	2487.5	2698.0	2715.9	2680.9	2712.9	2749.3
60°	614.4	611.5	848.8	1206.6	1758.5	2377.4	3104.2	3410.6	3418.1	3467.2	3408.4
62.5°	343.7	343.7	412.1	619.6	1131.4	2011.4	3299.1	4011.7	4104.7	4182.8	4354.6
65°	259.6	261.8	286.4	373.4	635.3	1269.8	3156.2	4217.0	4395.5	4574.8	4876.1
67.5°	215.7	215.7	233.6	278.2	397.2	576.5	2323.8	3804.9	4028.0	4242.3	4658.8
69°	200.1	200.8	214.2	244.7	332.5	374.9	1605.3	3226.2	3481.3	3778.1	4269.1
70°	192.7	190.4	203.1	228.4	301.3	296.1	1176.1	2805.1	3003.0	3269.3	3833.9
72.5°	171.1	168.9	175.6	194.9	237.3	211.3	479.8	1509.3	1807.6	2105.9	2555.9
75°	152.5	150.3	155.5	164.4	184.5	161.4	241.0	632.3	765.4	989.3	1365.0
77.5°	134.6	130.2	134.6	140.6	145.1	120.5	163.7	292.3	358.5	440.4	621.9
80°	122.0	117.5	122.7	119.8	113.8	93.0	108.6	170.3	188.9	226.1	296.1
82.5°	87.0	86.3	116.8	120.5	90.8	67.7	77.4	109.3	122.0	128.7	156.2
85°	53.6	51.3	67.7	86.3	92.2	42.4	49.8	64.7	67.7	73.6	87.0
87.5°	27.5	28.3	36.4	44.6	60.3	25.3	29.8	37.9	37.9	37.9	43.1
90°	11.7	13.2	18.2	23.6	20.6	13.7	18.2	16.9	18.6	17.3	19.2
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°	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6
2.5°	737.9	735.7	732.7	733.5	732.0	729.7	730.5	729.7	730.5	729.0	727.5
5°	759.5	758.0	753.5	752.8	751.3	749.8	747.6	745.4	744.6	743.1	740.1
7.5°	784.0	779.6	777.3	774.4	770.6	764.7	764.0	761.0	758.7	757.3	753.5
10°	809.3	804.1	801.1	797.4	793.7	790.0	786.3	781.1	775.9	774.4	769.9
12.5°	847.3	840.6	834.6	828.7	824.9	818.3	813.0	806.4	801.1	798.9	791.5
15°	888.9	880.0	874.0	869.6	863.6	857.7	851.0	845.0	836.9	830.2	823.5
17.5°	938.0	929.8	925.4	917.2	909.7	903.1	897.8	890.4	883.7	871.8	865.9
20°	1002.7	996.0	990.8	981.9	973.7	967.0	962.6	946.9	938.0	927.6	917.9
22.5°	1063.0	1063.7	1058.5	1052.6	1047.4	1038.4	1031.0	1019.8	1008.7	996.0	982.6
25°	1128.4	1134.4	1135.1	1133.7	1130.7	1120.3	1116.5	1105.4	1096.5	1075.6	1069.7
27.5°	1201.3	1208.0	1216.2	1226.6	1228.9	1217.7	1222.9	1211.8	1196.1	1187.2	1167.9
30°	1272.0	1290.6	1307.7	1319.6	1327.1	1332.3	1328.5	1324.8	1314.4	1299.5	1282.4
32.5°	1362.8	1382.1	1399.2	1425.2	1438.6	1455.0	1452.0	1453.5	1449.8	1434.9	1414.8
35°	1454.3	1471.4	1493.7	1510.8	1543.5	1561.4	1576.3	1575.5	1575.5	1566.6	1547.2
37.5°	1535.3	1545.0	1563.6	1591.9	1613.4	1641.7	1665.5	1675.2	1690.8	1691.6	1670.7
40°	1620.1	1629.8	1643.9	1664.8	1688.6	1722.1	1754.0	1785.3	1800.2	1815.8	1807.6
42.5°	1711.6	1722.1	1732.5	1745.9	1780.1	1806.1	1849.3	1891.7	1922.2	1954.1	1950.4
45°	1802.4	1814.3	1829.2	1849.3	1879.8	1922.2	1963.8	2011.4	2081.3	2119.3	2145.3
47.5°	1905.0	1924.4	1951.9	1983.9	2008.4	2052.3	2105.1	2178.8	2249.5	2314.9	2355.8
50°	2059.8	2067.2	2111.8	2143.1	2189.9	2234.6	2287.4	2352.1	2443.6	2510.6	2576.0
52.5°	2242.0	2270.3	2314.9	2350.6	2387.8	2432.4	2486.7	2544.8	2635.5	2710.7	2795.5
55°	2477.1	2517.2	2555.9	2575.3	2627.3	2667.5	2711.4	2768.7	2866.1	2947.9	3047.6
57.5°	2757.5	2797.7	2816.3	2844.5	2866.9	2911.5	2971.0	3009.7	3096.0	3180.8	3286.4
60°	3333.3	3308.0	3330.3	3286.4	3279.7	3283.4	3296.1	3325.8	3374.2	3453.0	3564.6
62.5°	4372.5	4336.0	4239.3	4204.3	4136.6	4045.2	3958.9	3947.0	3921.7	3981.2	4051.1
65°	4979.4	5111.9	5126.0	5163.2	5136.4	5065.0	4963.8	4931.1	4849.3	4792.0	4788.3
67.5°	4833.6	5032.3	5156.5	5313.4	5400.5	5485.3	5507.6	5536.6	5483.8	5457.8	5465.2
69°	4428.2	4575.5	4853.7	4960.9	5098.5	5211.5	5360.3	5386.3	5437.7	5445.1	5544.0
70°	4026.6	4243.0	4402.2	4562.9	4753.3	4877.5	4944.5	5054.6	5181.8	5244.3	5351.4
72.5°	2895.1	2965.8	3078.9	3287.1	3340.0	3468.7	3600.3	3694.0	3843.6	3949.2	4201.4
75°	1562.1	1604.5	1782.3	1900.6	1931.8	1974.2	2070.9	2094.0	2149.8	2184.0	2426.5
77.5°	713.4	778.1	801.1	865.9	829.4	847.3	870.3	865.1	880.7	955.1	1039.9
80°	328.8	341.4	350.4	377.1	378.6	372.7	374.9	371.2	368.2	380.1	389.0
82.5°	159.9	179.3	179.3	195.6	203.8	201.6	206.1	204.6	207.5	204.6	214.2
85°	93.7	93.7	101.2	110.1	108.6	111.6	111.6	117.5	118.3	119.8	119.8
87.5°	43.9	48.4	50.6	54.3	55.8	58.0	59.5	59.5	60.3	58.8	60.3
90°	20.2	20.2	27.6	27.6	29.1	31.3	28.3	29.8	35.0	28.3	33.5
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



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**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°	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6
2.5°	726.0	727.5	726.8	723.8	723.0	723.0	721.6	720.8	719.3	718.6	720.1
5°	739.4	739.4	737.2	734.2	731.2	730.5	729.7	726.0	724.5	723.0	721.6
7.5°	752.0	750.6	747.6	742.4	739.4	738.7	735.7	732.0	728.2	725.3	723.8
10°	765.4	764.0	758.0	754.3	748.3	747.6	742.4	737.9	734.2	730.5	727.5
12.5°	784.8	783.3	776.6	767.7	763.2	760.2	753.5	748.3	743.1	738.7	733.5
15°	814.5	808.6	804.1	795.2	788.5	782.5	774.4	766.9	759.5	752.0	747.6
17.5°	856.2	848.0	836.1	830.9	822.0	812.3	801.1	795.9	786.3	777.3	768.4
20°	910.5	902.3	883.7	877.0	864.4	850.2	841.3	830.2	822.0	807.8	798.2
22.5°	970.7	963.3	945.5	927.6	915.7	904.5	890.4	876.3	860.7	847.3	836.9
25°	1048.9	1037.7	1022.1	1004.2	986.4	970.7	951.4	931.3	917.9	899.3	884.5
27.5°	1155.2	1135.9	1109.8	1090.5	1076.4	1052.6	1028.8	1010.9	990.1	965.5	949.2
30°	1270.5	1249.0	1229.6	1207.3	1183.5	1160.4	1127.7	1101.7	1079.4	1053.3	1026.5
32.5°	1398.5	1379.9	1352.4	1323.3	1297.3	1268.3	1244.5	1217.0	1178.3	1150.8	1122.5
35°	1527.2	1505.6	1477.3	1452.8	1423.0	1393.3	1366.5	1330.0	1295.1	1255.6	1216.2
37.5°	1651.4	1632.8	1601.5	1564.4	1538.3	1506.3	1478.8	1440.1	1398.5	1354.6	1324.8
40°	1789.7	1760.0	1738.4	1695.3	1668.5	1632.8	1593.4	1563.6	1523.4	1475.8	1433.4
42.5°	1948.2	1927.4	1904.3	1869.3	1841.1	1798.7	1748.8	1710.9	1673.7	1617.2	1558.4
45°	2149.0	2135.6	2097.7	2069.4	2031.5	1986.9	1943.7	1897.6	1838.8	1773.4	1719.8
47.5°	2390.0	2379.6	2345.4	2305.2	2255.4	2195.2	2155.0	2091.8	2041.9	1960.1	1896.1
50°	2608.7	2613.9	2595.4	2533.6	2489.0	2428.7	2365.5	2310.5	2233.8	2149.0	2067.2
52.5°	2869.8	2864.6	2817.8	2783.6	2730.7	2657.8	2588.7	2518.0	2433.9	2346.2	2244.2
55°	3119.8	3135.4	3102.7	3054.3	2990.3	2888.4	2818.5	2727.0	2638.5	2541.8	2424.3
57.5°	3362.3	3412.1	3386.8	3329.5	3264.1	3190.4	3098.2	2995.6	2904.1	2777.6	2645.2
60°	3664.3	3730.5	3740.9	3703.7	3632.3	3546.8	3425.5	3345.2	3219.5	3102.7	3000.8
62.5°	4129.2	4279.5	4270.5	4288.4	4237.8	4185.0	4042.9	3956.6	3793.0	3708.9	3566.8
65°	4905.8	5016.6	5149.8	5145.3	5110.4	4983.9	4836.6	4692.3	4584.5	4418.6	4270.5
67.5°	5557.4	5648.9	5727.8	5686.9	5606.5	5464.4	5291.9	5091.0	4926.6	4743.6	4549.5
69°	5618.4	5730.0	5776.1	5725.5	5581.2	5396.0	5227.2	5040.4	4814.3	4657.4	4420.8
70°	5454.8	5564.9	5657.9	5527.7	5395.3	5214.5	5030.0	4835.9	4633.5	4464.7	4225.9
72.5°	4333.0	4457.3	4444.6	4430.5	4324.8	4144.1	3974.5	3870.3	3728.3	3524.4	3351.9
75°	2519.5	2576.8	2476.3	2582.0	2455.5	2273.3	2297.1	2179.5	2075.4	1957.9	1867.1
77.5°	989.3	1039.9	987.1	970.0	913.5	900.8	806.4	817.5	770.6	678.4	636.0
80°	374.9	381.6	372.7	354.1	350.4	328.8	322.8	302.0	292.3	261.8	250.7
82.5°	201.6	205.3	199.4	193.4	188.9	176.3	168.1	152.5	143.6	133.9	133.2
85°	116.0	113.1	110.1	107.1	100.4	93.0	87.0	81.1	74.4	69.2	64.0
87.5°	61.0	61.7	62.5	59.5	55.0	49.1	45.4	43.1	37.9	35.7	33.5
90°	28.9	23.5	25.5	29.8	28.1	24.2	23.2	20.8	18.4	18.2	15.9
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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 NUMBER: IST-AF-800-LED-E1-T2-7050-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	712.6	110°	116.4
717.8	717.8	715.6	714.1	708.9	700.0	691.1	682.9	671.7	667.2	661.3	112.5°	147.0
720.1	718.6	716.3	713.4	703.0	682.1	660.6	637.5	613.7	592.1	566.8	115°	177.4
721.6	718.6	715.6	711.9	697.0	665.0	621.9	576.5	534.1	502.1	488.7	117.5°	208.4
722.3	720.1	716.3	711.1	690.3	642.7	573.5	508.1	470.9	458.2	456.0	120°	243.0
730.5	726.8	720.8	714.9	687.3	618.2	519.2	456.7	441.9	447.8	458.2	122.5°	276.4
740.9	736.4	729.0	723.0	685.8	586.2	466.4	427.7	432.9	449.3	466.4	125°	310.0
759.5	752.0	743.9	737.9	688.8	546.7	424.0	412.8	428.5	449.3	472.4	127.5°	345.8
787.0	776.6	766.9	756.5	693.3	497.6	398.7	403.2	421.8	444.1	469.4	130°	379.4
821.2	809.3	795.9	780.3	698.5	455.2	384.6	392.8	409.9	429.2	450.0	132.5°	414.4
867.3	851.0	833.9	814.5	705.9	409.1	371.9	380.9	391.3	402.4	412.8	135°	450.4
925.4	903.1	884.5	858.4	713.4	377.9	361.5	364.5	366.7	368.2	367.5	137.5°	481.4
1002.7	968.5	946.9	915.0	721.6	361.5	349.6	345.9	342.2	337.0	331.0	140°	509.8
1084.6	1056.3	1022.1	981.2	726.8	350.4	338.5	326.6	316.1	310.9	310.9	142.5°	534.8
1179.8	1144.8	1101.7	1050.3	720.1	338.5	323.6	308.0	302.0	308.7	306.5	145°	558.8
1275.0	1226.6	1179.0	1120.3	703.7	325.1	307.2	299.0	303.5	294.6	289.4	147.5°	583.8
1379.9	1326.3	1260.1	1191.7	679.9	310.9	299.0	303.5	287.9	277.5	281.9	150°	607.6
1497.4	1434.2	1362.8	1269.8	664.3	302.0	286.4	290.1	276.7	269.3	267.0	152.5°	625.0
1657.3	1567.3	1480.3	1370.9	676.2	287.9	261.8	276.7	269.3	262.6	256.6	155°	639.2
1814.3	1718.3	1615.7	1487.0	697.0	277.5	242.5	262.6	267.8	256.6	245.5	157.5°	652.0
1972.0	1870.1	1750.3	1606.8	722.3	270.8	227.6	245.5	264.1	250.7	241.8	160°	662.4
2137.9	2009.2	1886.4	1731.7	755.0	264.1	215.7	230.6	257.4	250.7	237.3	162.5°	670.4
2311.9	2160.2	2037.5	1870.1	812.3	254.4	200.8	218.7	250.7	249.9	232.8	165°	679.6
2514.3	2378.9	2221.2	2050.8	891.9	243.2	187.5	209.8	244.7	247.0	227.6	167.5°	690.4
2858.7	2718.8	2528.4	2366.2	1049.6	228.4	179.3	200.8	235.1	241.0	223.2	170°	698.0
3417.3	3226.9	3052.1	2900.3	1319.6	207.5	173.3	191.2	224.6	233.6	219.4	172.5°	698.0
4057.8	3871.8	3660.6	3405.4	1469.9	188.2	165.1	179.3	214.2	226.1	215.7	175°	696.0
4330.1	4086.8	3830.2	3527.4	1326.3	172.6	156.2	168.1	202.3	215.7	210.5	177.5°	699.6
<b>4205.1</b>	<b>3958.9</b>	<b>3660.6</b>	<b>3363.8</b>	<b>1153.7</b>	<b>164.4</b>	<b>151.0</b>	<b>162.2</b>	<b>193.4</b>	<b>209.0</b>	<b>205.3</b>	180°	700.0
3987.9	3740.2	3473.9	3117.5	1030.3	159.9	147.3	158.4	189.7	205.3	202.3		
3154.0	2933.1	2687.6	2416.1	702.2	145.1	135.4	147.3	174.8	191.9	191.2		
1671.5	1606.8	1425.2	1266.1	363.8	129.4	122.7	134.6	161.4	179.3	179.3		
601.8	546.0	522.2	433.7	193.4	113.1	110.1	119.0	146.5	163.7	162.9		
227.6	221.7	198.6	186.0	122.7	92.2	93.0	101.9	128.7	145.1	144.3		
128.7	116.8	113.1	109.3	78.1	72.9	76.6	85.5	110.1	124.2	126.5		
61.7	57.3	55.8	52.1	51.3	55.8	60.3	67.7	87.8	104.9	102.7		
29.8	28.3	27.5	26.8	36.4	35.7	43.9	46.9	58.8	83.3	75.1		
16.7	16.7	15.9	14.4	17.4	20.9	23.1	27.1	31.5	56.4	47.4		
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		

'226303  
 IST-AF-800-LED-E1-T2-7050-ULG

REPORT NUMBER: P226303  
 CATALOG NUMBER: IST-AF-80

**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°	712.6	712.6
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	656.1	645.7
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	548.2	546.7
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	480.5	470.9
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	458.2	457.5
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	467.9	470.1
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	480.5	485.0
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	488.7	496.9
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	486.5	496.2
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	461.9	466.4
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	418.1	419.5
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	365.2	363.8
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	328.0	318.4
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	310.9	305.0
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	299.0	289.4
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	310.2	309.4
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	320.6	319.1
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	302.8	289.4
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	270.0	254.4
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	247.7	238.8
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	237.3	234.3
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	234.3	241.8
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	232.8	241.0
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	222.4	236.5
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	215.0	232.1
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	210.5	229.9
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	206.8	231.3
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	200.8	235.8
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	197.9	235.1
										70°	194.9	232.8
										72.5°	184.5	215.0
										75°	171.8	189.7
										77.5°	155.5	162.9
										80°	137.6	142.1
										82.5°	119.8	136.9
										85°	93.7	116.0
										87.5°	69.2	64.0
										90°	46.4	34.0
										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



REPORT NUMBER: P226303

CATALOG NUMBER: IST-AF-800-LED-E1-1

0-LED-E1-T2-7050-ULG

**tinued):**

180°
712.6
647.9
542.3
471.6
459.7
468.6
486.5
499.9
498.4
470.1
421.0
369.7
325.8
311.7
293.8
313.2
322.1
292.3
254.4
237.3
232.8
244.0
240.3
237.3
232.8
229.1
228.4
229.9
226.9
223.2
200.8
180.8
162.9
143.6
121.3
90.8
69.2
29.5
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

