

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: P226304

Luminaire Tested: **IST-AF-800-LED-E1-T2-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226304  
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-T2-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6272.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

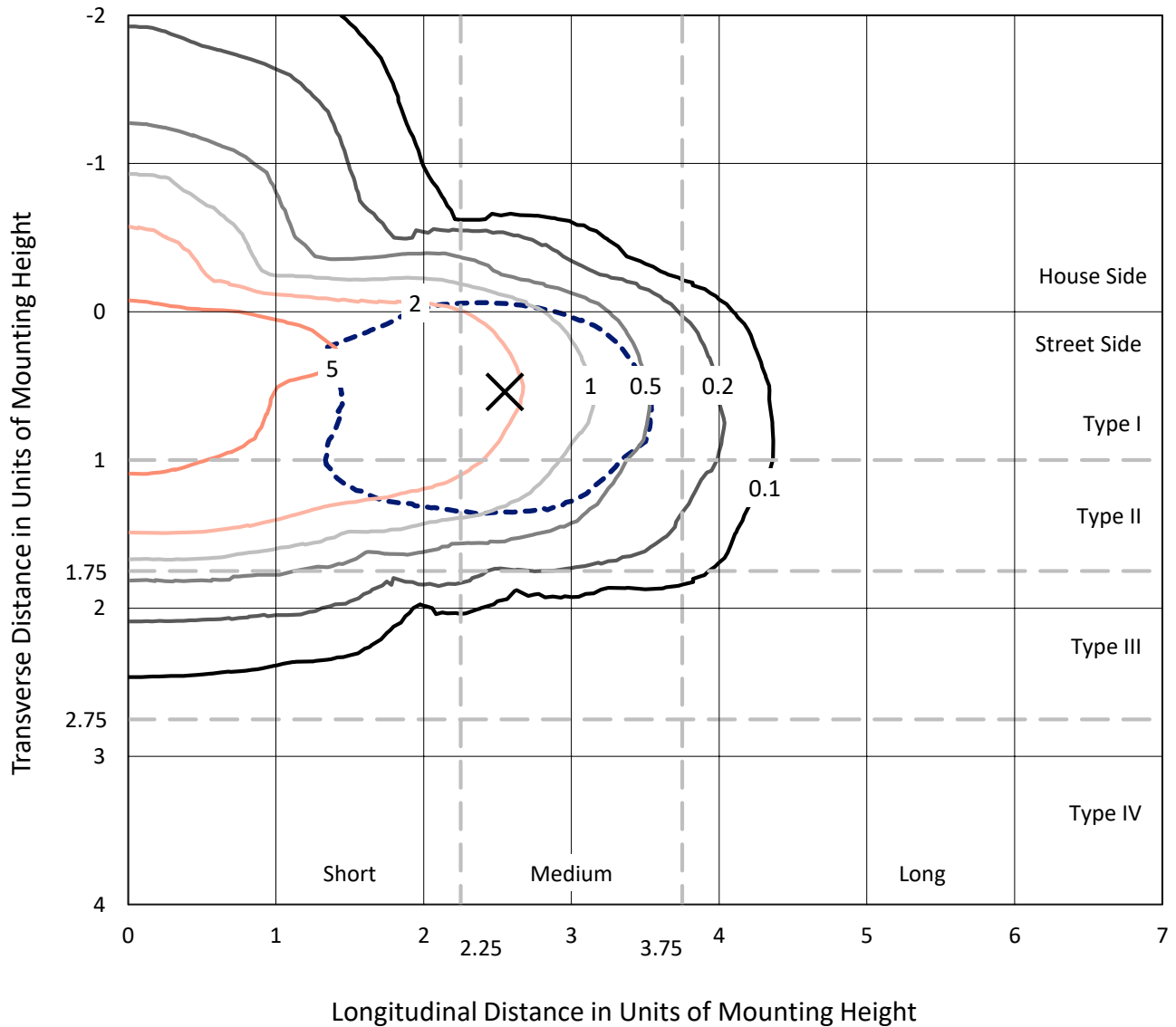
Input Watts (W): 60.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

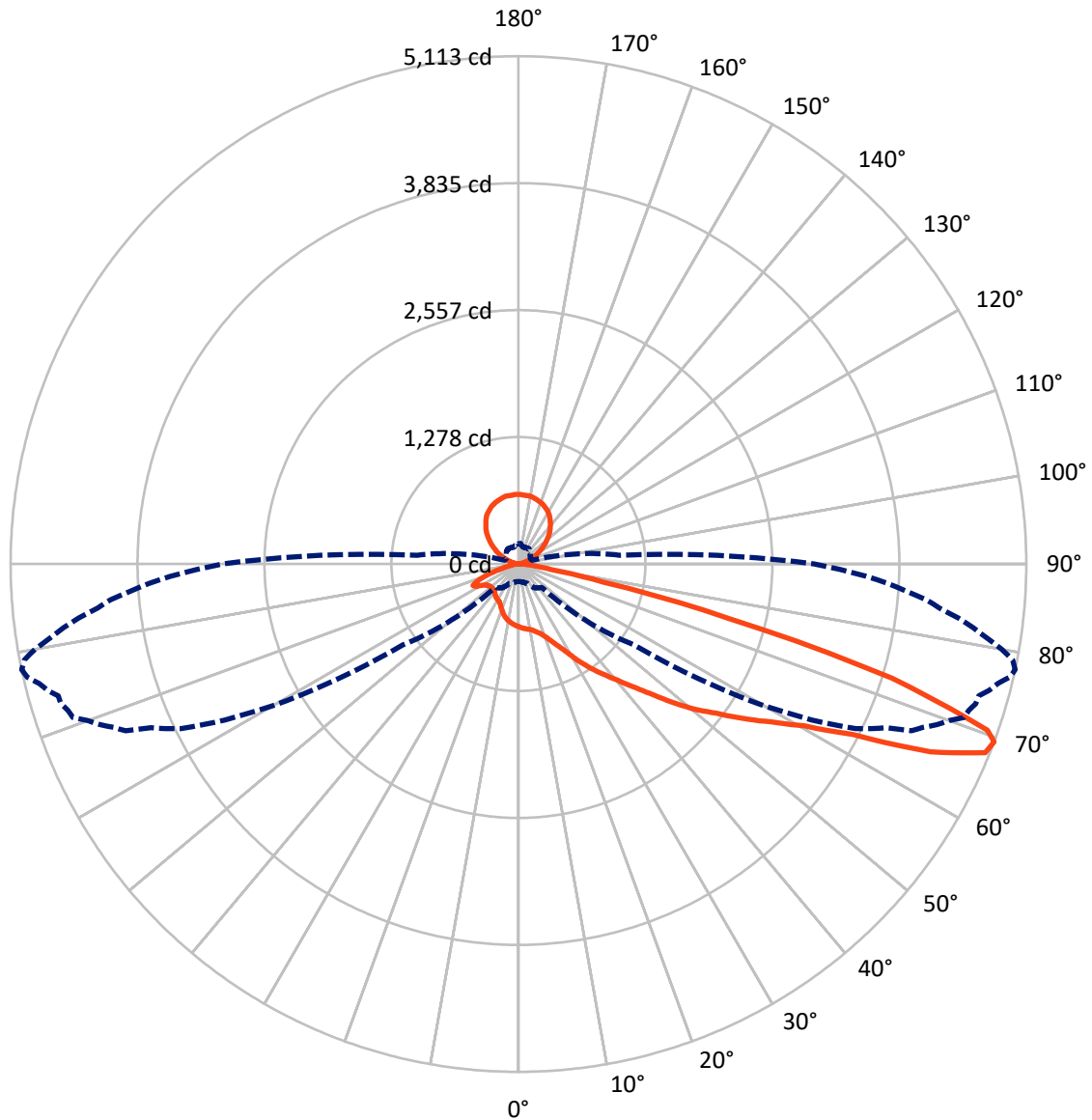
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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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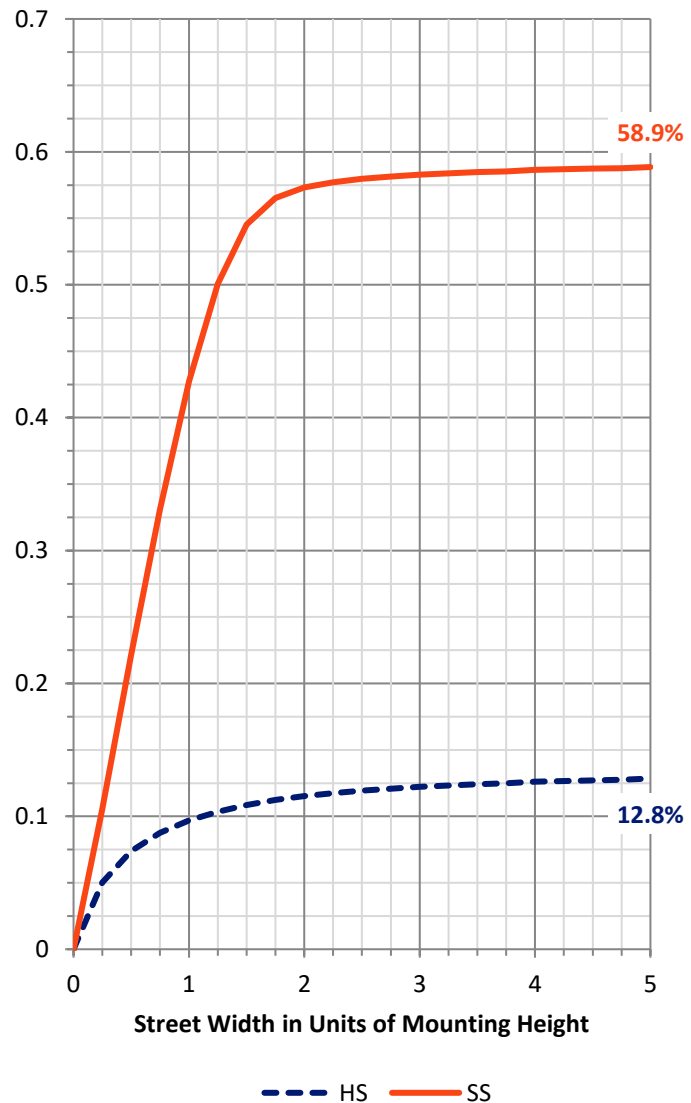
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	829.8	869.2	1699.0
	% Fixture	13.2	13.9	27.1
<b>Street Side</b>	Lumens	3704.8	868.3	4573.1
	% Fixture	59.1	13.8	72.9
<b>Total</b>	Lumens	4534.6	1737.5	6272.1
	% Fixture	72.3	27.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	0.9
10°-20°	176.9	2.8
20°-30°	317.1	5.1
30°-40°	517.6	8.3
40°-50°	765.6	12.2
50°-60°	999.7	15.9
60°-70°	1118.0	17.8
70°-80°	501.9	8.0
80°-90°	79.3	1.3
90°-100°	11.6	0.2
100°-110°	57.4	0.9
110°-120°	166.1	2.6
120°-130°	273.2	4.4
130°-140°	336.8	5.4
140°-150°	344.6	5.5
150°-160°	290.3	4.6
160°-170°	191.2	3.0
170°-180°	66.3	1.1
0°-90°	4534.6	72.3
0°-180°	6272.1	100.0



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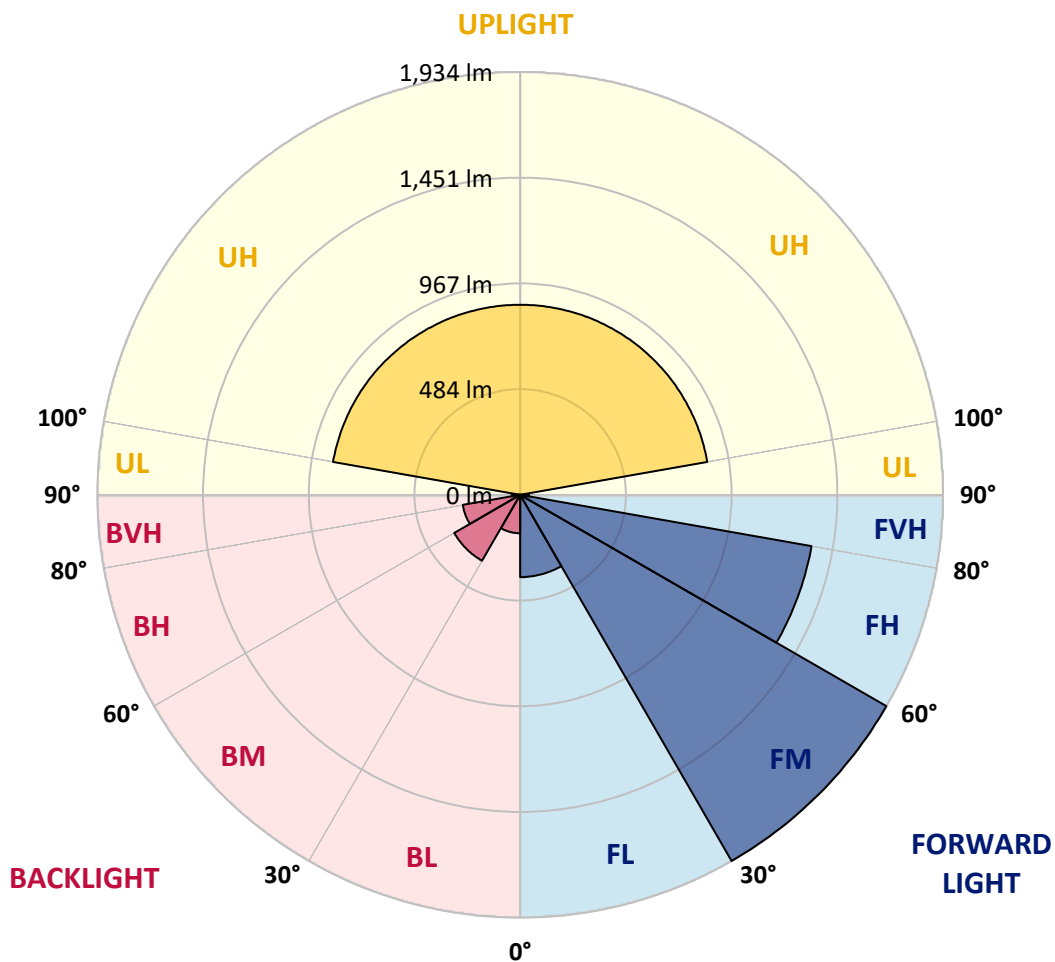
CATALOG NUMBER: IST-AF-800-LED-E1-T2-7030-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.5	6.0			
FM (30°-60°)	1934.4	30.8			
FH (60°-80°)	1353.4	21.6			G1/1800
FVH (80°-90°)	40.5	0.6			G1/100
BL (0°-30°)	176.0	2.8	B1/500		
BM (30°-60°)	348.5	5.6	B1/1000		
BH (60°-80°)	266.5	4.2	B1/500		G1/500
BVH (80°-90°)	38.8	0.6			G1/100
UL (90°-100°)	11.6	0.2		U2/50	
UH (100°-180°)	869.2	13.9		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°	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
2.5°	675.6	675.6	673.6	672.3	670.3	665.1	657.2	655.8	655.2	653.9	652.5
5°	725.0	719.7	721.0	717.7	710.5	701.3	686.8	679.5	675.6	674.9	672.3
7.5°	765.1	765.8	763.8	757.2	747.4	736.2	716.4	705.2	701.9	700.0	695.3
10°	794.1	792.1	790.8	789.5	781.6	772.4	747.4	733.5	730.9	725.6	720.4
12.5°	815.2	815.2	815.2	813.9	809.3	802.0	782.3	768.4	765.1	757.9	753.3
15°	838.2	835.6	833.0	831.0	831.6	831.6	817.2	806.6	801.4	797.4	788.2
17.5°	887.6	881.7	875.8	867.9	855.4	852.1	851.4	850.7	843.5	842.8	833.6
20°	929.8	924.5	919.2	911.3	893.5	874.4	884.3	893.5	892.2	892.9	888.3
22.5°	981.8	977.8	967.3	958.1	935.0	912.0	913.3	933.1	935.7	938.3	939.6
25°	1052.9	1050.9	1033.8	1016.0	989.7	968.0	947.5	971.9	977.2	983.1	995.0
27.5°	1124.7	1120.1	1101.6	1085.8	1052.9	1029.8	1001.5	1014.7	1022.6	1033.8	1052.2
30°	1217.5	1205.0	1198.4	1162.9	1132.6	1099.0	1074.6	1078.6	1077.3	1090.4	1118.7
32.5°	1351.8	1332.1	1299.2	1263.6	1228.0	1183.3	1162.9	1162.2	1158.9	1174.1	1189.9
35°	1424.3	1419.7	1399.3	1363.7	1324.8	1282.7	1269.5	1257.0	1259.0	1266.9	1272.8
37.5°	1502.6	1498.7	1482.9	1463.1	1433.5	1456.5	1383.4	1365.0	1356.5	1352.5	1354.5
40°	1536.9	1540.2	1548.7	1552.0	1534.9	1645.5	1501.3	1440.7	1438.1	1432.2	1426.2
42.5°	1544.1	1552.7	1569.8	1607.3	1623.8	1864.8	1598.8	1525.7	1515.1	1510.5	1511.2
45°	1570.5	1583.6	1586.9	1621.2	1698.9	1876.0	1708.7	1600.7	1592.8	1592.2	1588.2
47.5°	1634.3	1652.1	1652.1	1667.2	1741.0	1897.7	1746.3	1675.8	1670.5	1667.9	1678.4
50°	1643.5	1667.2	1714.7	1763.4	1816.7	1915.5	1789.1	1757.5	1759.4	1765.4	1796.3
52.5°	1487.5	1511.2	1636.3	1779.8	1953.7	1964.2	1853.6	1866.1	1879.3	1908.2	1964.9
55°	1275.5	1292.6	1440.7	1670.5	1959.0	2149.3	2015.6	2050.5	2078.1	2086.7	2175.6
57.5°	1004.2	1027.9	1178.7	1477.0	1829.2	2201.9	2388.3	2404.1	2373.1	2401.4	2433.7
60°	543.9	541.3	751.3	1068.0	1556.6	2104.5	2747.8	3019.1	3025.7	3069.1	3017.1
62.5°	304.2	304.2	364.8	548.5	1001.5	1780.5	2920.3	3551.1	3633.4	3702.6	3854.7
65°	229.8	231.8	253.5	330.6	562.3	1124.0	2793.9	3732.9	3890.9	4049.6	4316.3
67.5°	191.0	191.0	206.8	246.3	351.6	510.3	2057.1	3368.1	3565.6	3755.3	4124.0
69°	177.1	177.8	189.6	216.6	294.3	331.9	1421.0	2855.8	3081.6	3344.4	3779.0
70°	170.5	168.6	179.8	202.2	266.7	262.1	1041.0	2483.1	2658.2	2894.0	3393.8
72.5°	151.4	149.5	155.4	172.5	210.1	187.0	424.7	1336.0	1600.1	1864.1	2262.5
75°	135.0	133.0	137.6	145.5	163.3	142.9	213.3	559.7	677.6	875.8	1208.3
77.5°	119.2	115.2	119.2	124.5	128.4	106.7	144.9	258.8	317.4	389.8	550.5
80°	108.0	104.0	108.6	106.0	100.7	82.3	96.1	150.8	167.3	200.2	262.1
82.5°	77.0	76.4	103.4	106.7	80.3	59.9	68.5	96.8	108.0	113.9	138.3
85°	47.4	45.4	59.9	76.4	81.7	37.5	44.1	57.3	59.9	65.2	77.0
87.5°	24.4	25.0	32.3	39.5	53.3	22.4	26.3	33.6	33.6	33.6	38.2
90°	10.9	12.2	16.9	21.8	19.2	12.9	16.9	15.9	17.4	16.3	18.0
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°	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
2.5°	653.2	651.2	648.6	649.3	647.9	646.0	646.6	646.0	646.6	645.3	644.0
5°	672.3	671.0	667.0	666.4	665.1	663.7	661.8	659.8	659.1	657.8	655.2
7.5°	694.0	690.1	688.1	685.5	682.2	676.9	676.3	673.6	671.6	670.3	667.0
10°	716.4	711.8	709.2	705.9	702.6	699.3	696.0	691.4	686.8	685.5	681.5
12.5°	750.0	744.1	738.8	733.5	730.2	724.3	719.7	713.8	709.2	707.2	700.6
15°	786.9	779.0	773.7	769.8	764.5	759.2	753.3	748.0	740.8	734.9	728.9
17.5°	830.3	823.1	819.1	811.9	805.3	799.4	794.8	788.2	782.3	771.7	766.5
20°	887.6	881.7	877.1	869.2	861.9	856.0	852.1	838.2	830.3	821.1	812.6
22.5°	941.0	941.6	937.0	931.7	927.1	919.2	912.6	902.8	892.9	881.7	869.8
25°	998.9	1004.2	1004.8	1003.5	1000.9	991.7	988.4	978.5	970.6	952.1	946.9
27.5°	1063.4	1069.4	1076.6	1085.8	1087.8	1077.9	1082.5	1072.6	1058.8	1050.9	1033.8
30°	1126.0	1142.4	1157.6	1168.1	1174.7	1179.3	1176.0	1172.7	1163.5	1150.3	1135.2
32.5°	1206.3	1223.4	1238.6	1261.6	1273.5	1288.0	1285.3	1286.7	1283.4	1270.2	1252.4
35°	1287.3	1302.5	1322.2	1337.4	1366.3	1382.1	1395.3	1394.6	1394.6	1386.7	1369.6
37.5°	1359.1	1367.6	1384.1	1409.1	1428.2	1453.2	1474.3	1482.9	1496.7	1497.4	1478.9
40°	1434.2	1442.7	1455.2	1473.7	1494.7	1524.4	1552.7	1580.3	1593.5	1607.3	1600.1
42.5°	1515.1	1524.4	1533.6	1545.4	1575.7	1598.8	1637.0	1674.5	1701.5	1729.8	1726.5
45°	1595.5	1606.0	1619.2	1637.0	1664.0	1701.5	1738.4	1780.5	1842.4	1876.0	1899.0
47.5°	1686.3	1703.5	1727.8	1756.1	1777.9	1816.7	1863.5	1928.7	1991.2	2049.2	2085.4
50°	1823.3	1829.9	1869.4	1897.1	1938.5	1978.0	2024.8	2082.1	2163.1	2222.3	2280.3
52.5°	1984.6	2009.7	2049.2	2080.8	2113.7	2153.2	2201.3	2252.6	2333.0	2399.5	2474.5
55°	2192.7	2228.3	2262.5	2279.6	2325.7	2361.3	2400.1	2450.8	2537.1	2609.5	2697.8
57.5°	2441.0	2476.5	2493.0	2518.0	2537.7	2577.3	2629.9	2664.2	2740.6	2815.6	2909.1
60°	2950.6	2928.2	2948.0	2909.1	2903.2	2906.5	2917.7	2944.0	2986.8	3056.6	3155.4
62.5°	3870.5	3838.2	3752.6	3721.7	3661.8	3580.8	3504.4	3493.8	3471.5	3524.1	3586.0
65°	4407.8	4525.0	4537.5	4570.4	4546.7	4483.5	4394.0	4365.0	4292.6	4241.9	4238.6
67.5°	4278.7	4454.6	4564.5	4703.5	4780.5	4855.6	4875.3	4901.0	4854.3	4831.2	4837.8
69°	3919.9	4050.3	4296.5	4391.3	4513.2	4613.3	4744.9	4768.0	4813.4	4820.0	4907.6
70°	3564.3	3755.9	3896.8	4039.1	4207.6	4317.6	4376.9	4474.3	4586.9	4642.2	4737.0
72.5°	2562.8	2625.3	2725.4	2909.8	2956.5	3070.5	3187.0	3270.0	3402.3	3495.8	3719.0
75°	1382.8	1420.3	1577.7	1682.4	1710.1	1747.6	1833.2	1853.6	1903.0	1933.3	2147.9
77.5°	631.5	688.8	709.2	766.5	734.2	750.0	770.4	765.8	779.6	845.5	920.5
80°	291.0	302.2	310.1	333.8	335.2	329.9	331.9	328.6	325.9	336.5	344.4
82.5°	141.6	158.7	158.7	173.2	180.4	178.4	182.4	181.1	183.7	181.1	189.6
85°	83.0	83.0	89.6	97.5	96.1	98.8	98.8	104.0	104.7	106.0	106.0
87.5°	38.8	42.8	44.8	48.1	49.4	51.4	52.7	52.7	53.3	52.0	53.3
90°	18.9	18.9	25.5	25.5	26.8	28.8	26.1	27.4	32.0	26.1	30.7
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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CATALOG NUMBER: IST-AF-800-LED-E1-T2-7030-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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CATALOG NUMBER: IST-AF-800-LED-E1-T2-7030-ULG

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8
2.5°	642.7	644.0	643.3	640.7	640.0	640.0	638.7	638.1	636.7	636.1	637.4
5°	654.5	654.5	652.5	649.9	647.3	646.6	646.0	642.7	641.4	640.0	638.7
7.5°	665.7	664.4	661.8	657.2	654.5	653.9	651.2	647.9	644.6	642.0	640.7
10°	677.6	676.3	671.0	667.7	662.4	661.8	657.2	653.2	649.9	646.6	644.0
12.5°	694.7	693.4	687.4	679.5	675.6	673.0	667.0	662.4	657.8	653.9	649.3
15°	721.0	715.8	711.8	703.9	698.0	692.7	685.5	678.9	672.3	665.7	661.8
17.5°	757.9	750.7	740.1	735.5	727.6	719.1	709.2	704.6	696.0	688.1	680.2
20°	806.0	798.7	782.3	776.3	765.1	752.6	744.7	734.9	727.6	715.1	706.5
22.5°	859.3	852.7	836.9	821.1	810.6	800.7	788.2	775.7	761.9	750.0	740.8
25°	928.4	918.6	904.7	888.9	873.1	859.3	842.2	824.4	812.6	796.1	782.9
27.5°	1022.6	1005.5	982.4	965.3	952.8	931.7	910.7	894.9	876.4	854.7	840.2
30°	1124.7	1105.6	1088.5	1068.7	1047.6	1027.2	998.2	975.2	955.4	932.4	908.7
32.5°	1237.9	1221.5	1197.1	1171.4	1148.4	1122.7	1101.6	1077.3	1043.0	1018.7	993.6
35°	1351.8	1332.7	1307.7	1286.0	1259.7	1233.3	1209.6	1177.3	1146.4	1111.5	1076.6
37.5°	1461.8	1445.3	1417.7	1384.8	1361.7	1333.4	1309.0	1274.8	1237.9	1199.1	1172.7
40°	1584.3	1557.9	1538.8	1500.7	1477.0	1445.3	1410.4	1384.1	1348.5	1306.4	1268.9
42.5°	1724.5	1706.1	1685.7	1654.7	1629.7	1592.2	1548.1	1514.5	1481.6	1431.5	1379.5
45°	1902.3	1890.5	1856.9	1831.9	1798.3	1758.8	1720.6	1679.8	1627.7	1569.8	1522.4
47.5°	2115.7	2106.4	2076.2	2040.6	1996.5	1943.1	1907.6	1851.6	1807.5	1735.1	1678.4
50°	2309.3	2313.9	2297.4	2242.8	2203.2	2149.9	2093.9	2045.2	1977.4	1902.3	1829.9
52.5°	2540.4	2535.8	2494.3	2464.0	2417.2	2352.7	2291.5	2228.9	2154.5	2076.8	1986.6
55°	2761.6	2775.5	2746.5	2703.7	2647.1	2556.8	2494.9	2414.0	2335.6	2250.0	2146.0
57.5°	2976.3	3020.4	2998.0	2947.3	2889.4	2824.2	2742.5	2651.7	2570.7	2458.7	2341.5
60°	3243.6	3302.2	3311.5	3278.5	3215.3	3139.6	3032.3	2961.1	2849.9	2746.5	2656.3
62.5°	3655.2	3788.2	3780.3	3796.1	3751.3	3704.6	3578.8	3502.4	3357.5	3283.1	3157.4
65°	4342.6	4440.7	4558.6	4554.6	4523.7	4411.8	4281.4	4153.6	4058.2	3911.3	3780.3
67.5°	4919.4	5000.4	5070.2	5034.0	4962.9	4837.1	4684.4	4506.6	4361.1	4199.1	4027.2
69°	4973.4	5072.2	5113.0	5068.3	4940.5	4776.6	4627.1	4461.8	4261.6	4122.7	3913.3
70°	4828.6	4926.0	5008.3	4893.1	4775.9	4615.9	4452.6	4280.7	4101.6	3952.1	3740.8
72.5°	3835.6	3945.6	3934.4	3921.9	3828.4	3668.3	3518.2	3426.0	3300.3	3119.8	2967.1
75°	2230.2	2280.9	2192.1	2285.6	2173.6	2012.3	2033.4	1929.3	1837.1	1733.1	1652.8
77.5°	875.8	920.5	873.8	858.6	808.6	797.4	713.8	723.7	682.2	600.5	563.0
80°	331.9	337.8	329.9	313.4	310.1	291.0	285.8	267.3	258.8	231.8	221.9
82.5°	178.4	181.7	176.5	171.2	167.3	156.1	148.8	135.0	127.1	118.5	117.9
85°	102.7	100.1	97.5	94.8	88.9	82.3	77.0	71.8	65.8	61.2	56.6
87.5°	54.0	54.7	55.3	52.7	48.7	43.5	40.2	38.2	33.6	31.6	29.6
90°	26.6	21.8	23.5	27.3	25.8	22.3	21.4	19.3	17.1	16.9	14.9
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-T2-7030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	630.8	110°	116.4
635.4	635.4	633.4	632.1	627.5	619.6	611.7	604.5	594.6	590.6	585.4	112.5°	147.0
637.4	636.1	634.1	631.5	622.3	603.8	584.7	564.3	543.2	524.1	501.8	115°	177.4
638.7	636.1	633.4	630.2	617.0	588.7	550.5	510.3	472.8	444.5	432.6	117.5°	208.4
639.4	637.4	634.1	629.5	611.1	568.9	507.7	449.7	416.8	405.6	403.6	120°	243.0
646.6	643.3	638.1	632.8	608.4	547.2	459.6	404.3	391.1	396.4	405.6	122.5°	276.4
655.8	651.9	645.3	640.0	607.1	518.9	412.9	378.6	383.2	397.7	412.9	125°	310.0
672.3	665.7	658.5	653.2	609.7	484.0	375.3	365.5	379.3	397.7	418.1	127.5°	345.8
696.7	687.4	678.9	669.7	613.7	440.5	352.9	356.9	373.4	393.1	415.5	130°	379.4
727.0	716.4	704.6	690.7	618.3	403.0	340.4	347.7	362.8	379.9	398.4	132.5°	414.4
767.8	753.3	738.1	721.0	624.9	362.2	329.2	337.1	346.4	356.2	365.5	135°	450.4
819.1	799.4	782.9	759.9	631.5	334.5	320.0	322.7	324.6	325.9	325.3	137.5°	481.4
887.6	857.3	838.2	809.9	638.7	320.0	309.5	306.2	302.9	298.3	293.0	140°	509.8
960.1	935.0	904.7	868.5	643.3	310.1	299.6	289.1	279.9	275.2	275.2	142.5°	534.8
1044.3	1013.4	975.2	929.8	637.4	299.6	286.4	272.6	267.3	273.3	271.3	145°	558.8
1128.6	1085.8	1043.7	991.7	622.9	287.8	271.9	264.7	268.7	260.8	256.1	147.5°	583.8
1221.5	1174.1	1115.5	1054.9	601.8	275.2	264.7	268.7	254.8	245.6	249.6	150°	607.6
1325.5	1269.5	1206.3	1124.0	588.0	267.3	253.5	256.8	245.0	238.4	236.4	152.5°	625.0
1467.1	1387.4	1310.4	1213.6	598.6	254.8	231.8	245.0	238.4	232.4	227.2	155°	639.2
1606.0	1521.1	1430.2	1316.3	617.0	245.6	214.7	232.4	237.0	227.2	217.3	157.5°	652.0
1745.6	1655.4	1549.4	1422.3	639.4	239.7	201.5	217.3	233.8	221.9	214.0	160°	662.4
1892.4	1778.5	1669.9	1532.9	668.3	233.8	191.0	204.1	227.8	221.9	210.1	162.5°	670.4
2046.5	1912.2	1803.6	1655.4	719.1	225.2	177.8	193.6	221.9	221.2	206.1	165°	679.6
2225.6	2105.8	1966.2	1815.4	789.5	215.3	165.9	185.7	216.6	218.6	201.5	167.5°	690.4
2530.5	2406.7	2238.1	2094.6	929.1	202.2	158.7	177.8	208.1	213.3	197.5	170°	698.0
3025.0	2856.4	2701.7	2567.4	1168.1	183.7	153.4	169.2	198.9	206.8	194.2	172.5°	698.0
3592.0	3427.3	3240.3	3014.5	1301.1	166.6	146.2	158.7	189.6	200.2	191.0	175°	696.0
3833.0	3617.6	3390.5	3122.5	1174.1	152.8	138.3	148.8	179.1	191.0	186.3	177.5°	699.6
3722.3	3504.4	3240.3	2977.6	1021.3	145.5	133.7	143.5	171.2	185.0	181.7	180°	700.0
3530.1	3310.8	3075.1	2759.7	912.0	141.6	130.4	140.3	167.9	181.7	179.1		
2791.9	2596.4	2379.1	2138.7	621.6	128.4	119.8	130.4	154.7	169.9	169.2		
1479.6	1422.3	1261.6	1120.7	322.0	114.6	108.6	119.2	142.9	158.7	158.7		
532.7	483.3	462.2	383.9	171.2	100.1	97.5	105.4	129.7	144.9	144.2		
201.5	196.2	175.8	164.6	108.6	81.7	82.3	90.2	113.9	128.4	127.7		
113.9	103.4	100.1	96.8	69.1	64.5	67.8	75.7	97.5	110.0	111.9		
54.7	50.7	49.4	46.1	45.4	49.4	53.3	59.9	77.7	92.8	90.9		
26.3	25.0	24.4	23.7	32.3	31.6	38.8	41.5	52.0	73.7	66.5		
15.6	15.6	14.9	13.6	16.2	19.5	21.5	24.8	28.7	50.8	42.9		
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		

'226304  
 IST-AF-800-LED-E1-T2-7030-ULG

REPORT NUMBER: P226304  
 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°	630.8	630.8
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	580.8	571.6
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	485.3	484.0
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	425.4	416.8
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	405.6	405.0
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	414.2	416.2
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	425.4	429.3
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	432.6	439.9
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	430.6	439.2
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	408.9	412.9
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	370.1	371.4
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	323.3	322.0
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	290.4	281.8
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	275.2	270.0
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	264.7	256.1
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	274.6	273.9
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	283.8	282.5
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	268.0	256.1
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	239.0	225.2
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	219.3	211.4
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	210.1	207.4
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	207.4	214.0
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	206.1	213.3
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	196.9	209.4
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	190.3	205.4
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	186.3	203.5
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	183.1	204.8
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	177.8	208.7
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	175.2	208.1
										70°	172.5	206.1
										72.5°	163.3	190.3
										75°	152.1	167.9
										77.5°	137.6	144.2
										80°	121.8	125.8
										82.5°	106.0	121.2
										85°	83.0	102.7
										87.5°	61.2	56.6
										90°	41.9	30.7
										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-800-LED-E1-1

0-LED-E1-T2-7030-ULG

**tinued):**

180°
630.8
573.5
480.0
417.5
406.9
414.8
430.6
442.5
441.2
416.2
372.7
327.3
288.4
275.9
260.1
277.2
285.1
258.8
225.2
210.1
206.1
216.0
212.7
210.1
206.1
202.8
202.2
203.5
200.8
197.5
177.8
160.0
144.2
127.1
107.3
80.3
61.2
26.7
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

