

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: P226301

Luminaire Tested: **IST-AF-800-LED-E1-T2-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226301  
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-T2-8030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, WITH UPLIGHT GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5917.5 lumens  
Efficiency: N/A  
Efficacy: 98.3 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

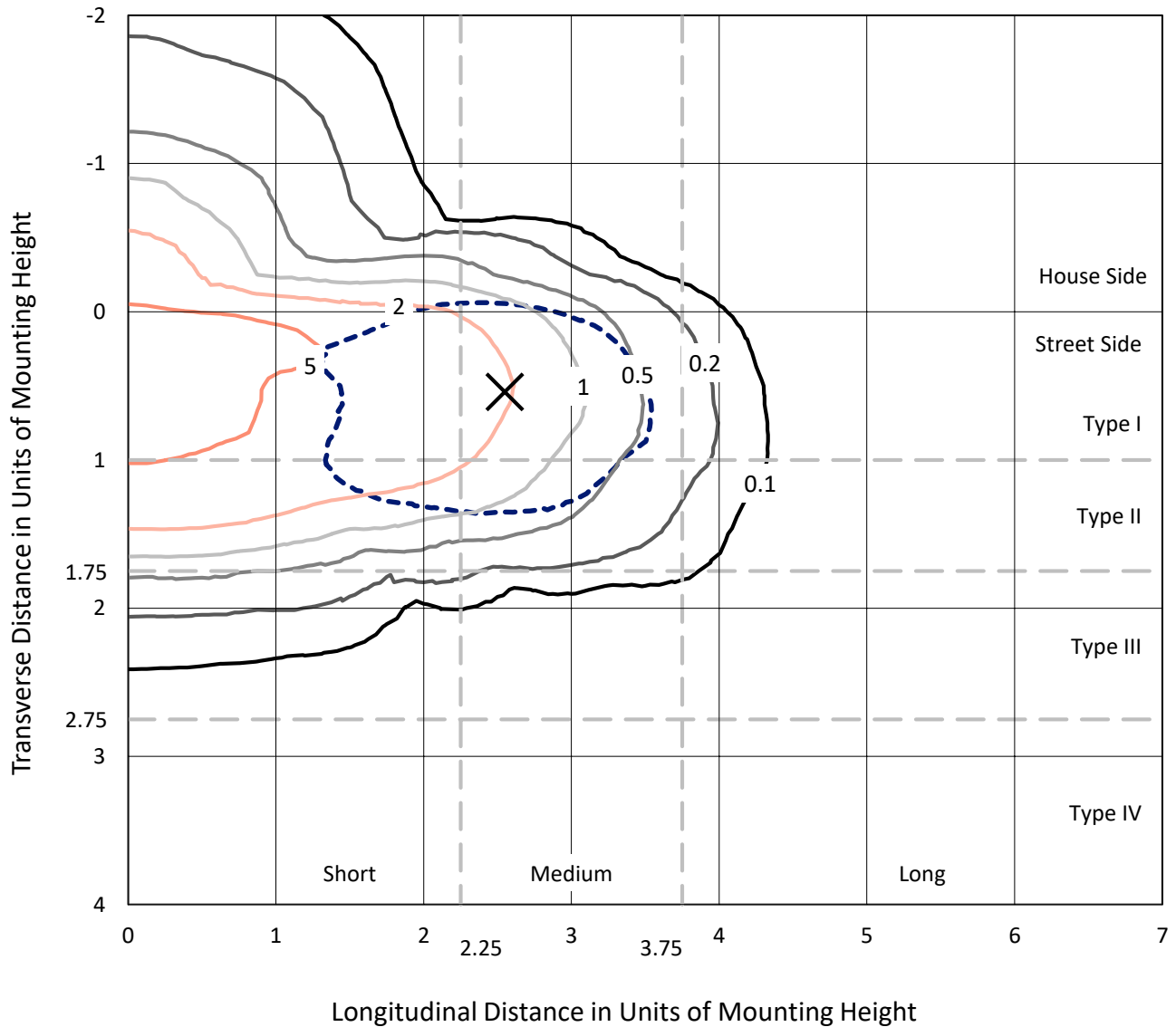
Input Watts (W): 60.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

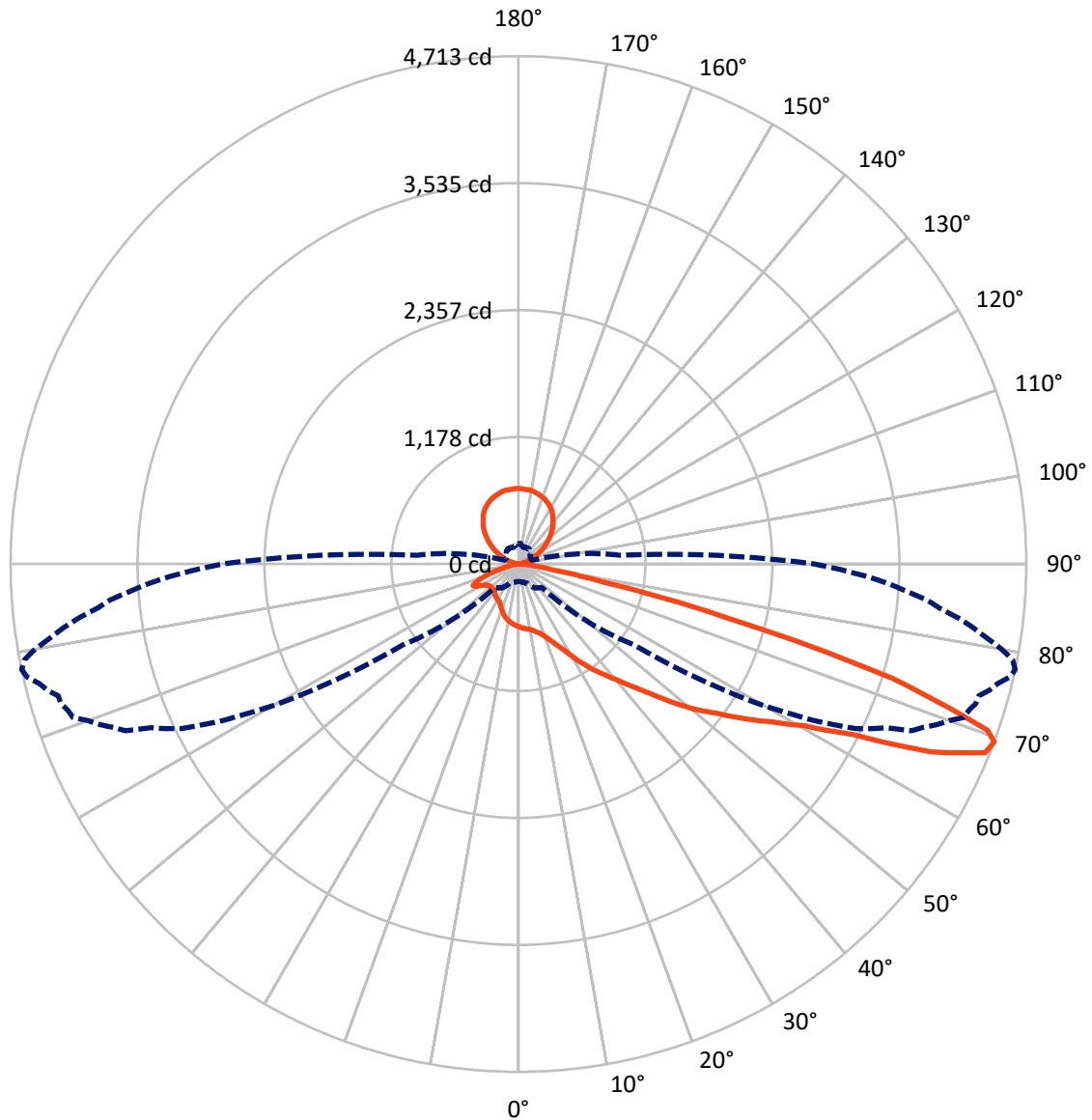
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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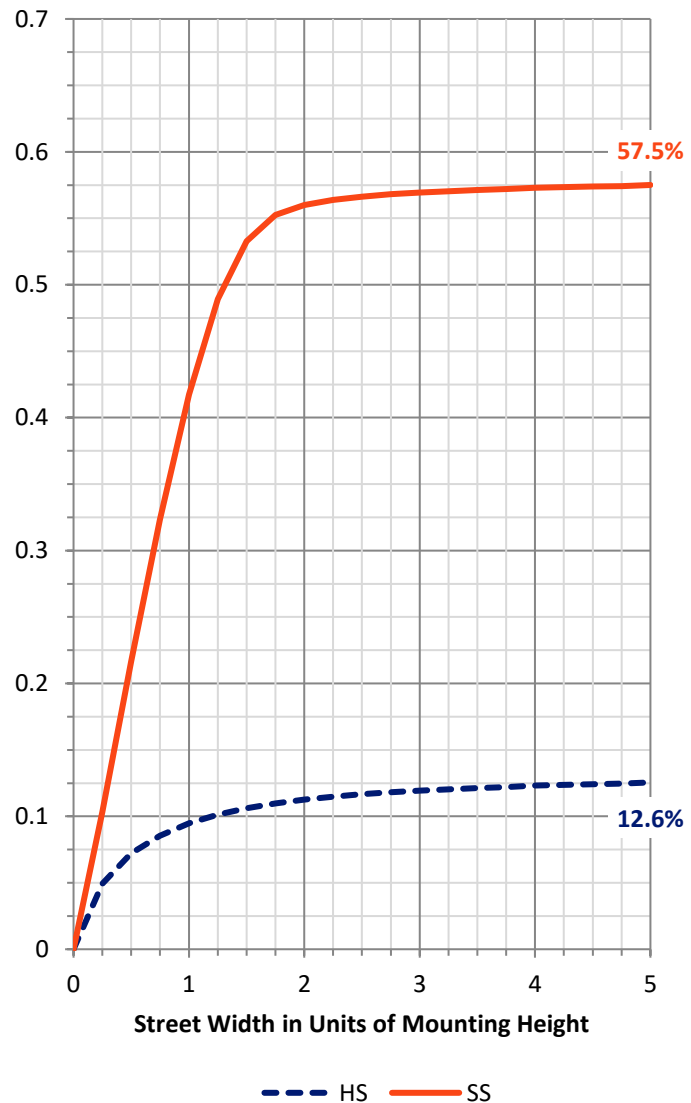
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	765.0	869.0	1634.0
	% Fixture	12.9	14.7	27.6
<b>Street Side</b>	Lumens	3415.2	868.3	4283.4
	% Fixture	57.7	14.7	72.4
<b>Total</b>	Lumens	4180.2	1737.3	5917.5
	% Fixture	70.6	29.4	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	0.9
10°-20°	163.1	2.8
20°-30°	292.3	4.9
30°-40°	477.1	8.1
40°-50°	705.7	11.9
50°-60°	921.5	15.6
60°-70°	1030.6	17.4
70°-80°	462.7	7.8
80°-90°	73.2	1.2
90°-100°	11.4	0.2
100°-110°	57.4	1.0
110°-120°	166.1	2.8
120°-130°	273.2	4.6
130°-140°	336.8	5.7
140°-150°	344.6	5.8
150°-160°	290.3	4.9
160°-170°	191.2	3.2
170°-180°	66.3	1.1
0°-90°	4180.2	70.6
0°-180°	5917.5	100.0



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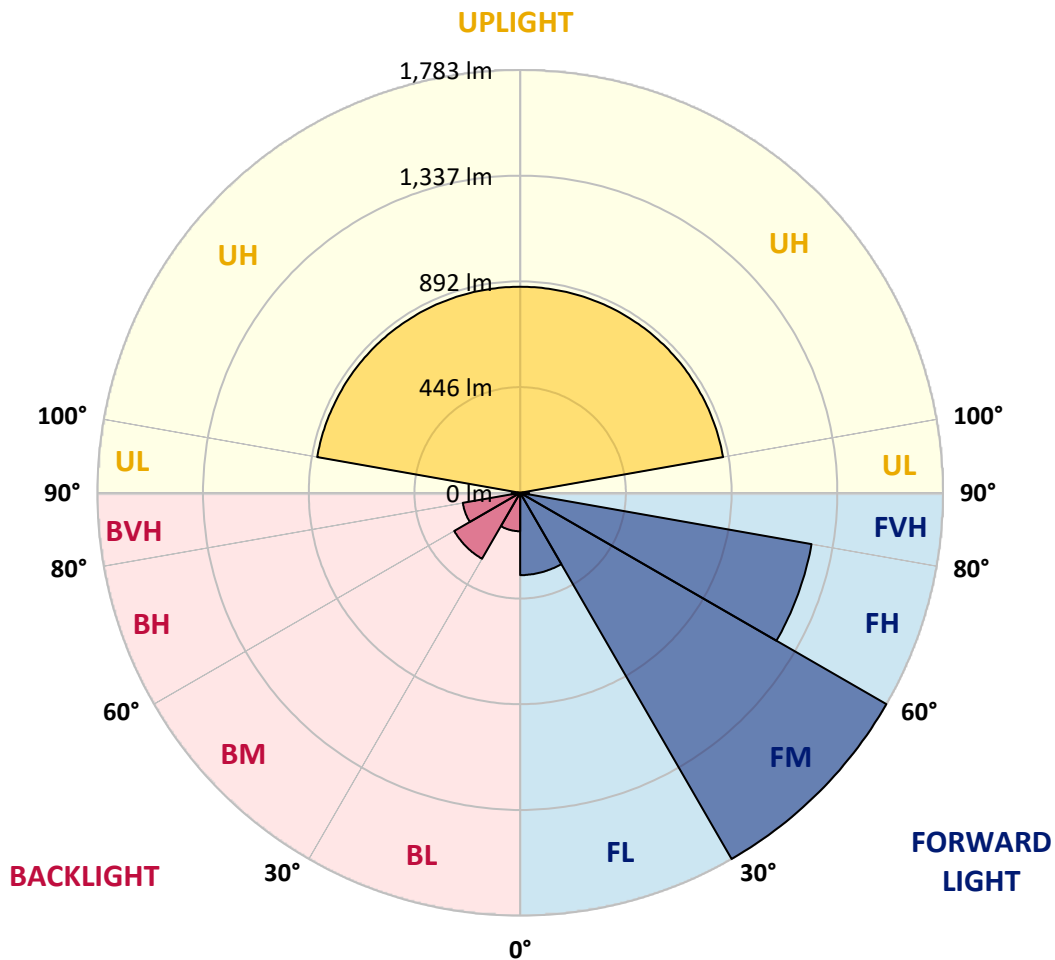
CATALOG NUMBER: IST-AF-800-LED-E1-T2-8030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.1	5.9			
FM	(30°-60°)	1783.2	30.1			
FH	(60°-80°)	1247.6	21.1			G1/1800
FVH	(80°-90°)	37.4	0.6			G1/100
BL	(0°-30°)	162.3	2.7	B1/500		
BM	(30°-60°)	321.2	5.4	B1/1000		
BH	(60°-80°)	245.7	4.2	B1/500		G1/500
BVH	(80°-90°)	35.8	0.6			G1/100
UL	(90°-100°)	11.4	0.2		U2/50	
UH	(100°-180°)	869.0	14.7		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°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	622.8	622.8	621.0	619.7	617.9	613.1	605.8	604.6	604.0	602.7	601.5
5°	668.3	663.4	664.7	661.6	654.9	646.5	633.1	626.4	622.8	622.2	619.7
7.5°	705.3	705.9	704.1	698.0	688.9	678.6	660.4	650.1	647.1	645.2	641.0
10°	732.0	730.2	729.0	727.8	720.5	712.0	688.9	676.2	673.8	668.9	664.1
12.5°	751.5	751.5	751.5	750.2	746.0	739.3	721.1	708.4	705.3	698.7	694.4
15°	772.7	770.3	767.8	766.0	766.6	766.6	753.3	743.6	738.7	735.1	726.6
17.5°	818.2	812.8	807.3	800.0	788.5	785.5	784.8	784.2	777.6	777.0	768.5
20°	857.1	852.2	847.4	840.1	823.7	806.1	815.2	823.7	822.5	823.1	818.8
22.5°	905.0	901.4	891.7	883.2	861.9	840.7	841.9	860.1	862.5	865.0	866.2
25°	970.6	968.8	953.0	936.6	912.3	892.3	873.5	895.9	900.8	906.2	917.2
27.5°	1036.7	1032.5	1015.5	1000.9	970.6	949.3	923.2	935.4	942.7	953.0	970.0
30°	1122.3	1110.8	1104.7	1072.0	1044.0	1013.1	990.6	994.3	993.0	1005.2	1031.3
32.5°	1246.2	1228.0	1197.6	1164.8	1132.0	1090.8	1072.0	1071.3	1068.3	1082.3	1096.8
35°	1312.9	1308.7	1289.9	1257.1	1221.3	1182.4	1170.3	1158.8	1160.6	1167.9	1173.3
37.5°	1385.2	1381.5	1367.0	1348.7	1321.4	1342.7	1275.3	1258.3	1250.4	1246.8	1248.6
40°	1416.7	1419.8	1427.7	1430.7	1414.9	1516.9	1384.0	1328.1	1325.7	1320.2	1314.8
42.5°	1423.4	1431.3	1447.1	1481.7	1496.9	1719.0	1473.8	1406.4	1396.7	1392.4	1393.1
45°	1447.7	1459.8	1462.9	1494.4	1566.0	1729.3	1575.2	1475.6	1468.3	1467.7	1464.1
47.5°	1506.6	1523.0	1523.0	1536.9	1604.9	1749.4	1609.8	1544.8	1539.9	1537.5	1547.2
50°	1515.1	1536.9	1580.6	1625.5	1674.7	1765.8	1649.2	1620.1	1621.9	1627.4	1655.9
52.5°	1371.2	1393.1	1508.4	1640.7	1801.0	1810.7	1708.7	1720.2	1732.4	1759.1	1811.3
55°	1175.8	1191.5	1328.1	1539.9	1805.8	1981.2	1858.0	1890.2	1915.7	1923.6	2005.5
57.5°	925.7	947.5	1086.5	1361.5	1686.2	2029.8	2201.6	2216.1	2187.6	2213.7	2243.5
60°	501.4	499.0	692.6	984.5	1434.9	1940.0	2533.0	2783.1	2789.1	2829.2	2781.3
62.5°	280.4	280.4	336.3	505.6	923.2	1641.3	2692.0	3273.5	3349.4	3413.1	3553.4
65°	211.8	213.7	233.7	304.7	518.4	1036.1	2575.5	3441.1	3586.7	3733.0	3978.9
67.5°	176.0	176.0	190.6	227.0	324.1	470.4	1896.3	3104.8	3286.9	3461.7	3801.6
69°	163.3	163.9	174.8	199.7	271.3	305.9	1309.9	2632.5	2840.7	3082.9	3483.5
70°	157.2	155.4	165.7	186.3	245.8	241.6	959.7	2289.0	2450.4	2667.7	3128.5
72.5°	139.6	137.8	143.3	159.0	193.6	172.4	391.5	1231.6	1475.0	1718.4	2085.6
75°	124.4	122.6	126.9	134.1	150.5	131.7	196.7	515.9	624.6	807.3	1113.8
77.5°	109.9	106.2	109.9	114.7	118.4	98.3	133.5	238.5	292.6	359.3	507.4
80°	99.5	95.9	100.2	97.7	92.9	75.9	88.6	139.0	154.2	184.5	241.6
82.5°	71.0	70.4	95.3	98.3	74.1	55.2	63.1	89.2	99.5	105.0	127.5
85°	43.7	41.9	55.2	70.4	75.3	34.6	40.7	52.8	55.2	60.1	71.0
87.5°	22.5	23.1	29.7	36.4	49.2	20.6	24.3	31.0	31.0	31.0	35.2
90°	10.5	11.7	16.1	20.7	18.3	12.5	16.1	15.3	16.7	15.7	17.3
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°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	602.1	600.3	597.9	598.5	597.3	595.5	596.1	595.5	596.1	594.9	593.6
5°	619.7	618.5	614.9	614.3	613.1	611.9	610.0	608.2	607.6	606.4	604.0
7.5°	639.8	636.1	634.3	631.9	628.8	624.0	623.4	621.0	619.1	617.9	614.9
10°	660.4	656.2	653.7	650.7	647.7	644.6	641.6	637.3	633.1	631.9	628.2
12.5°	691.4	685.9	681.0	676.2	673.2	667.7	663.4	658.0	653.7	651.9	645.8
15°	725.4	718.1	713.2	709.6	704.7	699.9	694.4	689.5	682.9	677.4	671.9
17.5°	765.4	758.7	755.1	748.4	742.4	736.9	732.6	726.6	721.1	711.4	706.5
20°	818.2	812.8	808.5	801.2	794.6	789.1	785.5	772.7	765.4	756.9	749.0
22.5°	867.4	868.0	863.8	858.9	854.6	847.4	841.3	832.2	823.1	812.8	801.8
25°	920.8	925.7	926.3	925.1	922.6	914.1	911.1	902.0	894.7	877.7	872.9
27.5°	980.3	985.8	992.4	1000.9	1002.8	993.7	997.9	988.8	976.0	968.8	953.0
30°	1038.0	1053.1	1067.1	1076.8	1082.9	1087.1	1084.1	1081.1	1072.6	1060.4	1046.5
32.5°	1112.0	1127.8	1141.8	1163.0	1173.9	1187.3	1184.9	1186.1	1183.0	1170.9	1154.5
35°	1186.7	1200.6	1218.8	1232.8	1259.5	1274.1	1286.2	1285.6	1285.6	1278.3	1262.6
37.5°	1252.8	1260.7	1275.9	1299.0	1316.6	1339.6	1359.1	1367.0	1379.7	1380.3	1363.3
40°	1322.0	1329.9	1341.5	1358.5	1377.9	1405.2	1431.3	1456.8	1468.9	1481.7	1475.0
42.5°	1396.7	1405.2	1413.7	1424.6	1452.5	1473.8	1509.0	1543.6	1568.5	1594.6	1591.5
45°	1470.8	1480.5	1492.6	1509.0	1533.9	1568.5	1602.5	1641.3	1698.4	1729.3	1750.6
47.5°	1554.5	1570.3	1592.8	1618.9	1638.9	1674.7	1717.8	1777.9	1835.6	1889.0	1922.4
50°	1680.8	1686.8	1723.3	1748.8	1787.0	1823.4	1866.5	1919.3	1994.0	2048.6	2102.0
52.5°	1829.5	1852.6	1889.0	1918.1	1948.5	1984.9	2029.2	2076.5	2150.6	2211.9	2281.1
55°	2021.3	2054.1	2085.6	2101.4	2143.9	2176.7	2212.5	2259.2	2338.8	2405.5	2486.9
57.5°	2250.1	2282.9	2298.1	2321.2	2339.4	2375.8	2424.3	2455.9	2526.3	2595.5	2681.7
60°	2719.9	2699.3	2717.5	2681.7	2676.2	2679.3	2689.6	2713.9	2753.3	2817.7	2908.7
62.5°	3567.9	3538.2	3459.3	3430.7	3375.5	3300.8	3230.4	3220.7	3200.1	3248.6	3305.7
65°	4063.2	4171.3	4182.8	4213.2	4191.3	4133.0	4050.5	4023.8	3957.0	3910.3	3907.2
67.5°	3944.3	4106.3	4207.7	4335.8	4406.8	4476.0	4494.2	4517.9	4474.8	4453.5	4459.6
69°	3613.4	3733.6	3960.6	4048.1	4160.3	4252.6	4374.0	4395.3	4437.1	4443.2	4523.9
70°	3285.7	3462.3	3592.2	3723.3	3878.7	3980.1	4034.7	4124.5	4228.3	4279.3	4366.7
72.5°	2362.4	2420.1	2512.4	2682.3	2725.4	2830.4	2937.9	3014.3	3136.3	3222.5	3428.3
75°	1274.7	1309.3	1454.4	1550.9	1576.4	1611.0	1689.9	1708.7	1754.2	1782.1	1980.0
77.5°	582.1	634.9	653.7	706.5	676.8	691.4	710.2	705.9	718.7	779.4	848.6
80°	268.3	278.6	285.9	307.7	309.0	304.1	305.9	302.9	300.5	310.2	317.5
82.5°	130.5	146.3	146.3	159.6	166.3	164.5	168.1	166.9	169.4	166.9	174.8
85°	76.5	76.5	82.6	89.8	88.6	91.0	91.0	95.9	96.5	97.7	97.7
87.5°	35.8	39.5	41.3	44.3	45.5	47.3	48.6	48.6	49.2	48.0	49.2
90°	18.1	18.1	24.2	24.2	25.4	27.2	24.8	26.0	30.2	24.8	29.0
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: P226301

CATALOG NUMBER: IST-AF-800-LED-E1-T2-8030-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



REPORT NUMBER: P226301  
 CATALOG NUMBER: IST-AF-800-LED-E1-T2-8030-ULG

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5
2.5°	592.4	593.6	593.0	590.6	590.0	590.0	588.8	588.2	587.0	586.4	587.6
5°	603.4	603.4	601.5	599.1	596.7	596.1	595.5	592.4	591.2	590.0	588.8
7.5°	613.7	612.5	610.0	605.8	603.4	602.7	600.3	597.3	594.2	591.8	590.6
10°	624.6	623.4	618.5	615.5	610.6	610.0	605.8	602.1	599.1	596.1	593.6
12.5°	640.4	639.2	633.7	626.4	622.8	620.3	614.9	610.6	606.4	602.7	598.5
15°	664.7	659.8	656.2	648.9	643.4	638.6	631.9	625.8	619.7	613.7	610.0
17.5°	698.7	692.0	682.3	678.0	670.7	662.8	653.7	649.5	641.6	634.3	627.0
20°	743.0	736.3	721.1	715.6	705.3	693.8	686.5	677.4	670.7	659.2	651.3
22.5°	792.1	786.1	771.5	756.9	747.2	738.1	726.6	715.0	702.3	691.4	682.9
25°	855.9	846.8	834.0	819.4	804.9	792.1	776.3	760.0	749.0	733.9	721.7
27.5°	942.7	926.9	905.6	889.9	878.3	858.9	839.5	824.9	807.9	787.9	774.5
30°	1036.7	1019.1	1003.4	985.2	965.7	946.9	920.2	899.0	880.8	859.5	837.7
32.5°	1141.2	1126.0	1103.5	1079.8	1058.6	1034.9	1015.5	993.0	961.5	939.0	916.0
35°	1246.2	1228.6	1205.5	1185.5	1161.2	1136.9	1115.1	1085.3	1056.8	1024.6	992.4
37.5°	1347.5	1332.4	1306.9	1276.5	1255.3	1229.2	1206.7	1175.1	1141.2	1105.3	1081.1
40°	1460.4	1436.2	1418.5	1383.3	1361.5	1332.4	1300.2	1275.9	1243.1	1204.3	1169.7
42.5°	1589.7	1572.7	1553.9	1525.4	1502.3	1467.7	1427.0	1396.1	1365.7	1319.6	1271.7
45°	1753.6	1742.7	1711.7	1688.7	1657.7	1621.3	1586.1	1548.4	1500.5	1447.1	1403.4
47.5°	1950.3	1941.8	1913.9	1881.1	1840.4	1791.2	1758.5	1706.9	1666.2	1599.4	1547.2
50°	2128.7	2133.0	2117.8	2067.4	2031.0	1981.8	1930.2	1885.3	1822.8	1753.6	1686.8
52.5°	2341.8	2337.5	2299.3	2271.4	2228.3	2168.8	2112.3	2054.7	1986.1	1914.5	1831.3
55°	2545.7	2558.5	2531.8	2492.3	2440.1	2357.0	2299.9	2225.2	2153.0	2074.1	1978.2
57.5°	2743.6	2784.3	2763.7	2716.9	2663.5	2603.4	2528.1	2444.4	2369.7	2266.5	2158.5
60°	2990.1	3044.1	3052.6	3022.2	2964.0	2894.2	2795.2	2729.7	2627.1	2531.8	2448.6
62.5°	3369.4	3492.0	3484.8	3499.3	3458.1	3415.0	3299.0	3228.6	3095.1	3026.5	2910.5
65°	4003.1	4093.6	4202.2	4198.6	4170.1	4066.9	3946.7	3828.9	3740.9	3605.6	3484.8
67.5°	4534.9	4609.5	4673.9	4640.5	4574.9	4459.0	4318.2	4154.3	4020.1	3870.8	3712.4
69°	4584.6	4675.7	4713.3	4672.0	4554.3	4403.1	4265.4	4113.0	3928.5	3800.4	3607.4
70°	4451.1	4540.9	4616.8	4510.6	4402.5	4255.0	4104.5	3946.1	3781.0	3643.2	3448.3
72.5°	3535.7	3637.1	3626.8	3615.3	3529.1	3381.6	3243.2	3158.2	3042.3	2875.9	2735.1
75°	2055.9	2102.6	2020.7	2106.9	2003.7	1855.0	1874.4	1778.5	1693.5	1597.6	1523.6
77.5°	807.3	848.6	805.5	791.5	745.4	735.1	658.0	667.1	628.8	553.6	519.0
80°	305.9	311.4	304.1	288.9	285.9	268.3	263.4	246.4	238.5	213.7	204.6
82.5°	164.5	167.5	162.7	157.8	154.2	143.9	137.2	124.4	117.2	109.3	108.7
85°	94.7	92.3	89.8	87.4	81.9	75.9	71.0	66.2	60.7	56.5	52.2
87.5°	49.8	50.4	51.0	48.6	44.9	40.1	37.0	35.2	31.0	29.1	27.3
90°	25.2	20.7	22.4	25.8	24.4	21.2	20.3	18.3	16.3	16.1	14.3
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



REPORT NUMBER: P226301  
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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°

NUMBER: P226301  
 NUMBER: IST-AF-800-LED-E1-T2-8030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	581.5	110°	116.4
585.8	585.8	583.9	582.7	578.5	571.2	563.9	557.2	548.1	544.5	539.6	112.5°	147.0
587.6	586.4	584.5	582.1	573.6	556.6	539.0	520.2	500.8	483.2	462.5	115°	177.4
588.8	586.4	583.9	580.9	568.8	542.7	507.4	470.4	435.8	409.7	398.8	117.5°	208.4
589.4	587.6	584.5	580.3	563.3	524.4	468.0	414.6	384.2	373.9	372.1	120°	243.0
596.1	593.0	588.2	583.3	560.9	504.4	423.7	372.7	360.6	365.4	373.9	122.5°	276.4
604.6	600.9	594.9	590.0	559.7	478.3	380.6	349.0	353.3	366.6	380.6	125°	310.0
619.7	613.7	607.0	602.1	562.1	446.1	346.0	336.9	349.6	366.6	385.4	127.5°	345.8
642.2	633.7	625.8	617.3	565.7	406.1	325.3	329.0	344.2	362.4	383.0	130°	379.4
670.1	660.4	649.5	636.7	570.0	371.5	313.8	320.5	334.5	350.2	367.2	132.5°	414.4
707.8	694.4	680.4	664.7	576.0	333.8	303.5	310.8	319.3	328.4	336.9	135°	450.4
755.1	736.9	721.7	700.5	582.1	308.4	295.0	297.4	299.2	300.5	299.9	137.5°	481.4
818.2	790.3	772.7	746.6	588.8	295.0	285.3	282.3	279.2	275.0	270.1	140°	509.8
885.0	861.9	834.0	800.6	593.0	285.9	276.2	266.5	258.0	253.7	253.7	142.5°	534.8
962.7	934.2	899.0	857.1	587.6	276.2	264.0	251.3	246.4	251.9	250.1	145°	558.8
1040.4	1000.9	962.1	914.1	574.2	265.3	250.7	244.0	247.7	240.4	236.1	147.5°	583.8
1126.0	1082.3	1028.3	972.4	554.8	253.7	244.0	247.7	234.9	226.4	230.1	150°	607.6
1221.9	1170.3	1112.0	1036.1	542.0	246.4	233.7	236.7	225.8	219.7	217.9	152.5°	625.0
1352.4	1278.9	1207.9	1118.7	551.8	234.9	213.7	225.8	219.7	214.3	209.4	155°	639.2
1480.5	1402.2	1318.4	1213.4	568.8	226.4	197.9	214.3	218.5	209.4	200.3	157.5°	652.0
1609.1	1526.0	1428.3	1311.1	589.4	220.9	185.7	200.3	215.5	204.6	197.3	160°	662.4
1744.5	1639.5	1539.3	1413.1	616.1	215.5	176.0	188.2	210.0	204.6	193.6	162.5°	670.4
1886.5	1762.7	1662.6	1526.0	662.8	207.6	163.9	178.5	204.6	204.0	190.0	165°	679.6
2051.6	1941.2	1812.5	1673.5	727.8	198.5	153.0	171.2	199.7	201.5	185.7	167.5°	690.4
2332.7	2218.6	2063.2	1930.9	856.5	186.3	146.3	163.9	191.8	196.7	182.1	170°	698.0
2788.5	2633.1	2490.5	2366.7	1076.8	169.4	141.4	156.0	183.3	190.6	179.1	172.5°	698.0
3311.2	3159.4	2987.0	2778.8	1199.4	153.6	134.8	146.3	174.8	184.5	176.0	175°	696.0
3533.3	3334.8	3125.4	2878.4	1082.3	140.8	127.5	137.2	165.1	176.0	171.8	177.5°	699.6
<b>3431.3</b>	<b>3230.4</b>	<b>2987.0</b>	<b>2744.8</b>	<b>941.5</b>	<b>134.1</b>	<b>123.2</b>	<b>132.3</b>	<b>157.8</b>	<b>170.6</b>	<b>167.5</b>	180°	700.0
3254.1	3052.0	2834.7	2543.9	840.7	130.5	120.2	129.3	154.8	167.5	165.1		
2573.7	2393.4	2193.1	1971.5	573.0	118.4	110.5	120.2	142.6	156.6	156.0		
1363.9	1311.1	1163.0	1033.1	296.8	105.6	100.2	109.9	131.7	146.3	146.3		
491.1	445.5	426.1	353.9	157.8	92.3	89.8	97.1	119.6	133.5	132.9		
185.7	180.9	162.1	151.7	100.2	75.3	75.9	83.2	105.0	118.4	117.8		
105.0	95.3	92.3	89.2	63.7	59.5	62.5	69.8	89.8	101.4	103.2		
50.4	46.7	45.5	42.5	41.9	45.5	49.2	55.2	71.6	85.6	83.8		
24.3	23.1	22.5	21.9	29.7	29.1	35.8	38.2	48.0	68.0	61.3		
14.9	14.9	14.3	13.1	15.5	18.7	20.5	23.4	27.0	47.5	40.2		
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		

'226301  
 IST-AF-800-LED-E1-T2-8030-ULG

REPORT NUMBER: P226301  
 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°	581.5	581.5
147.0	147.0	147.0	147.0	149.0	150.0	148.0	143.0	134.0	121.0	2.5°	535.4	526.9
177.6	177.8	178.0	177.0	179.0	182.0	179.0	174.0	168.0	159.0	5°	447.4	446.1
208.6	208.8	209.0	208.0	210.0	215.0	211.0	205.0	202.0	197.0	7.5°	392.1	384.2
243.0	243.0	243.0	243.0	245.0	250.0	246.0	243.0	237.0	233.0	10°	373.9	373.3
276.6	276.8	277.0	276.0	278.0	283.0	279.0	277.0	271.0	267.0	12.5°	381.8	383.6
310.0	310.0	310.0	310.0	310.0	315.0	313.0	310.0	305.0	299.0	15°	392.1	395.8
346.2	346.6	347.0	345.0	346.0	346.0	345.0	340.0	339.0	333.0	17.5°	398.8	405.5
379.6	379.8	380.0	379.0	381.0	381.0	377.0	372.0	370.0	366.0	20°	397.0	404.9
414.6	414.8	415.0	414.0	414.0	416.0	411.0	405.0	404.0	401.0	22.5°	376.9	380.6
450.6	450.8	451.0	450.0	447.0	448.0	443.0	437.0	435.0	432.0	25°	341.1	342.3
481.6	481.8	482.0	481.0	476.0	475.0	473.0	468.0	464.0	460.0	27.5°	298.0	296.8
510.2	510.6	511.0	509.0	504.0	502.0	500.0	497.0	491.0	489.0	30°	267.7	259.8
535.2	535.6	536.0	534.0	533.0	533.0	527.0	525.0	521.0	518.0	32.5°	253.7	248.9
559.2	559.6	560.0	558.0	561.0	562.0	556.0	551.0	550.0	547.0	35°	244.0	236.1
584.2	584.6	585.0	583.0	586.0	585.0	580.0	575.0	574.0	574.0	37.5°	253.1	252.5
608.4	609.2	610.0	606.0	603.0	600.0	597.0	593.0	593.0	593.0	40°	261.6	260.4
626.0	627.0	628.0	623.0	618.0	614.0	611.0	610.0	610.0	609.0	42.5°	247.0	236.1
639.8	640.4	641.0	638.0	636.0	631.0	626.0	628.0	630.0	627.0	45°	220.3	207.6
653.0	654.0	655.0	650.0	650.0	648.0	644.0	645.0	646.0	644.0	47.5°	202.1	194.8
663.6	664.8	666.0	660.0	661.0	664.0	658.0	655.0	655.0	656.0	50°	193.6	191.2
671.6	672.8	674.0	668.0	670.0	671.0	667.0	663.0	661.0	665.0	52.5°	191.2	197.3
680.4	681.2	682.0	678.0	680.0	677.0	672.0	673.0	673.0	676.0	55°	190.0	196.7
691.6	692.8	694.0	688.0	688.0	684.0	678.0	685.0	688.0	686.0	57.5°	181.5	193.0
699.0	700.0	701.0	696.0	694.0	689.0	686.0	691.0	693.0	692.0	60°	175.4	189.4
699.0	700.0	701.0	696.0	694.0	692.0	689.0	690.0	690.0	693.0	62.5°	171.8	187.6
697.0	698.0	699.0	694.0	696.0	695.0	690.0	690.0	691.0	695.0	65°	168.7	188.8
700.4	701.2	702.0	698.0	701.0	699.0	694.0	695.0	697.0	699.0	67.5°	163.9	192.4
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	69°	161.5	191.8
										70°	159.0	190.0
										72.5°	150.5	175.4
										75°	140.2	154.8
										77.5°	126.9	132.9
										80°	112.3	115.9
										82.5°	97.7	111.7
										85°	76.5	94.7
										87.5°	56.5	52.2
										90°	39.2	28.7
										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-T2-8030-ULG

**tinued):**

180°
581.5
528.7
442.5
384.8
375.1
382.4
397.0
407.9
406.7
383.6
343.6
301.7
265.9
254.3
239.8
255.5
262.8
238.5
207.6
193.6
190.0
199.1
196.1
193.6
190.0
187.0
186.3
187.6
<b>185.1</b>
182.1
163.9
147.5
132.9
117.2
98.9
74.1
56.5
25.0
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

