

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: P226300

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226300  
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-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: 7017.8 lumens  
Efficiency: N/A  
Efficacy: 116.6 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

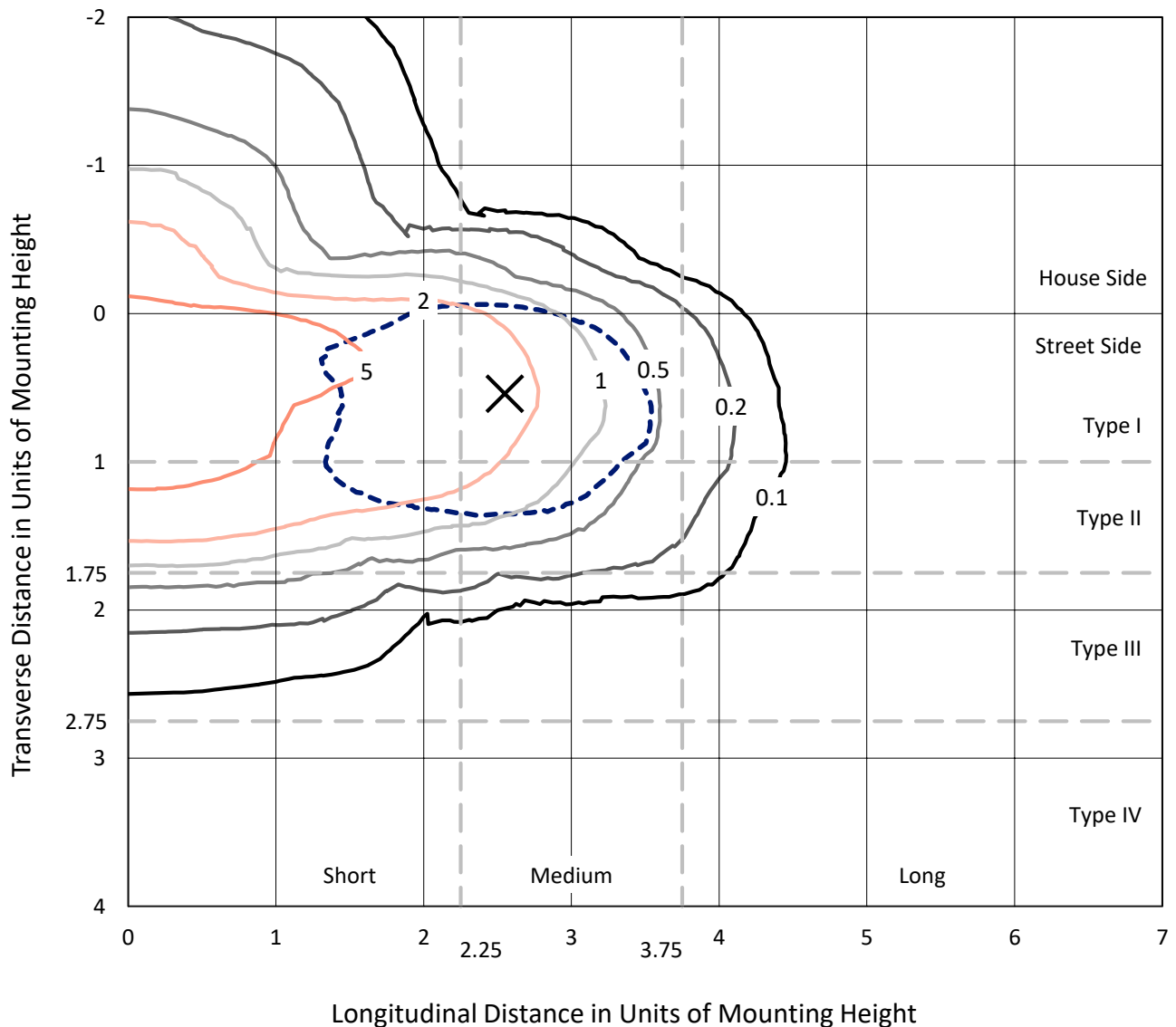
Input Watts (W): 60.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

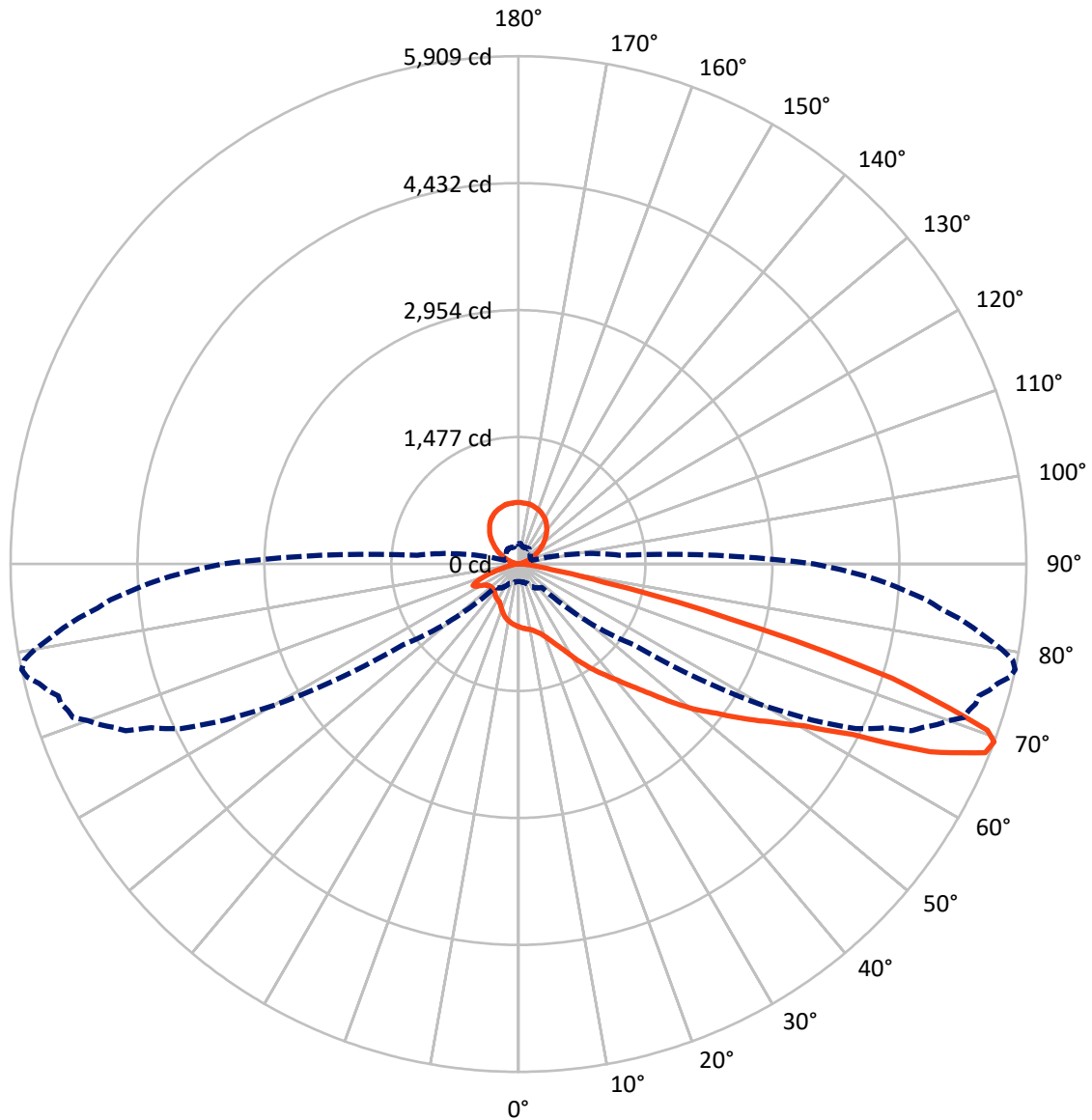
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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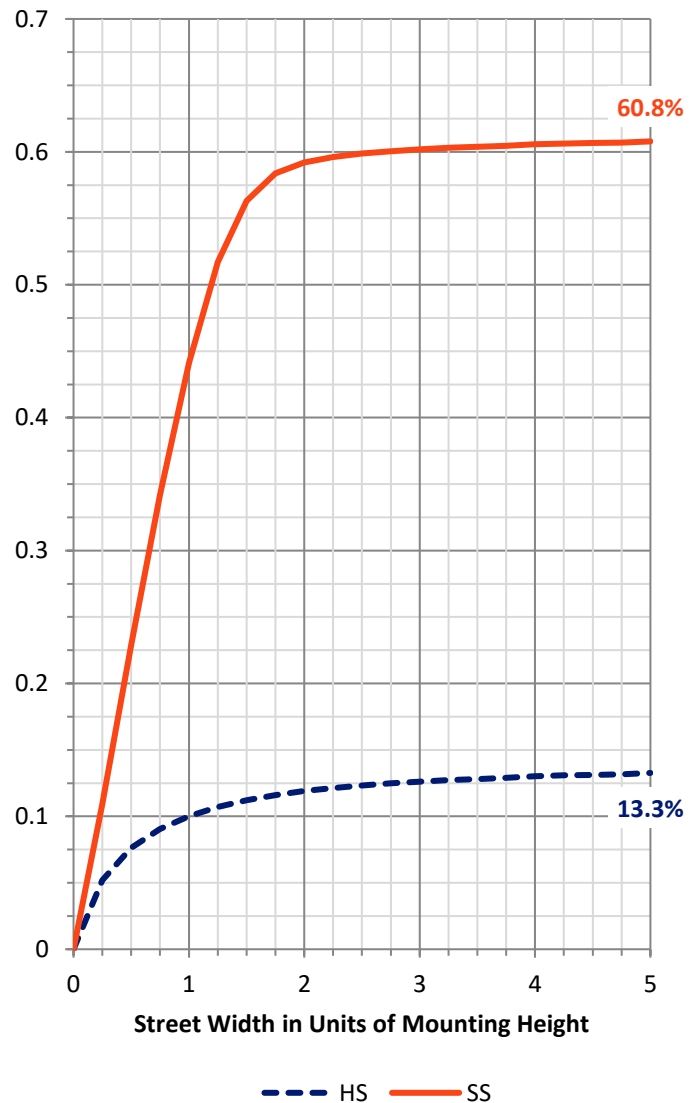
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	958.9	889.3	1848.2
	% Fixture	13.7	12.7	26.3
<b>Street Side</b>	Lumens	4281.2	888.3	5169.6
	% Fixture	61.0	12.7	73.7
<b>Total</b>	Lumens	5240.1	1777.6	7017.8
	% Fixture	74.7	25.3	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	1.0
10°-20°	204.4	2.9
20°-30°	366.4	5.2
30°-40°	598.2	8.5
40°-50°	884.7	12.6
50°-60°	1155.2	16.5
60°-70°	1292.0	18.4
70°-80°	580.0	8.3
80°-90°	91.5	1.3
90°-100°	12.2	0.2
100°-110°	58.7	0.8
110°-120°	169.9	2.4
120°-130°	279.4	4.0
130°-140°	344.6	4.9
140°-150°	352.5	5.0
150°-160°	297.0	4.2
160°-170°	195.5	2.8
170°-180°	67.8	1.0
0°-90°	5240.1	74.7
0°-180°	7017.8	100.0



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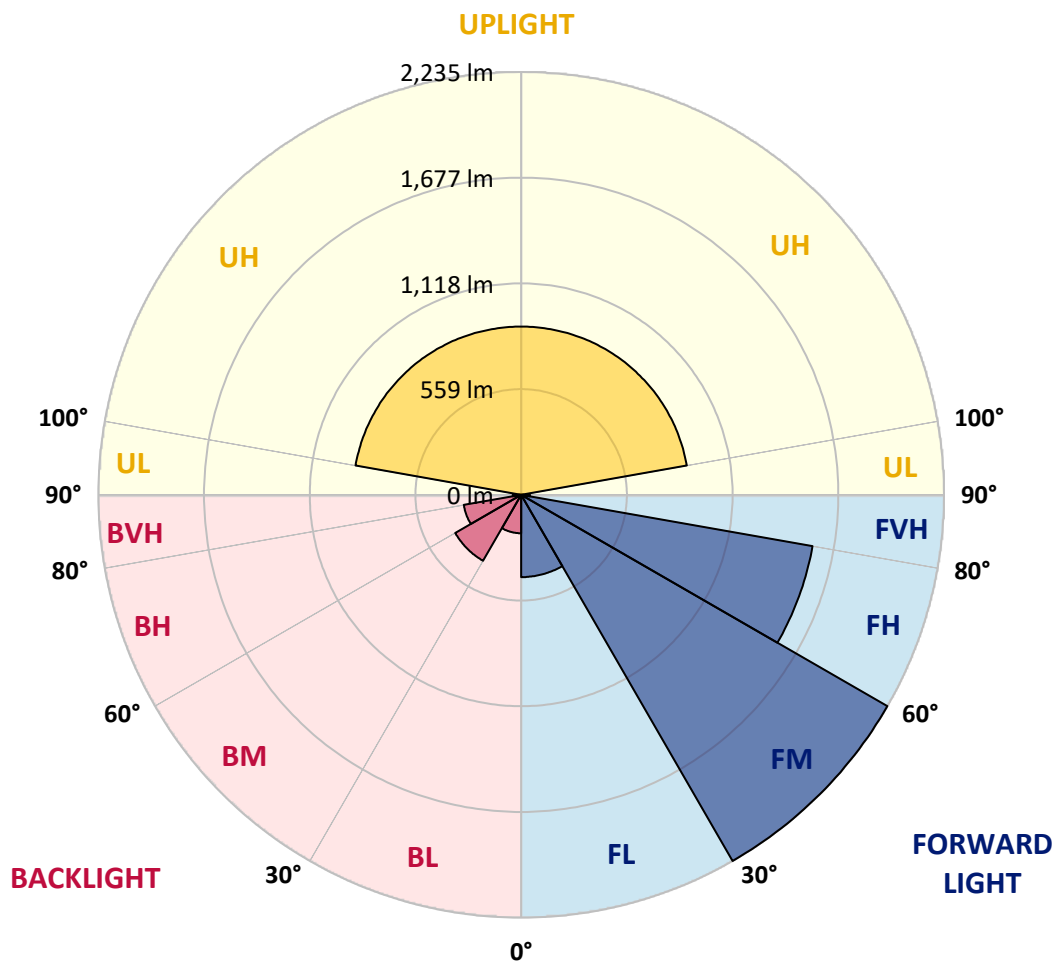
CATALOG NUMBER: IST-AF-800-LED-E1-T2-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.1	6.2			
FM (30°-60°)	2235.4	31.9			
FH (60°-80°)	1564.0	22.3			G1/1800
FVH (80°-90°)	46.7	0.7			G1/100
BL (0°-30°)	203.4	2.9	B1/500		
BM (30°-60°)	402.7	5.7	B1/1000		
BH (60°-80°)	308.0	4.4	B1/500		G1/500
BVH (80°-90°)	44.8	0.6			G1/100
UL (90°-100°)	12.2	0.2		U2/50	
UH (100°-180°)	889.3	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°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	780.7	780.7	778.5	776.9	774.7	768.5	759.4	757.9	757.1	755.7	754.1
5°	837.8	831.7	833.2	829.4	821.0	810.4	793.7	785.3	780.7	780.0	776.9
7.5°	884.2	885.0	882.7	875.0	863.7	850.7	827.9	815.0	811.2	808.8	803.5
10°	917.7	915.4	913.9	912.4	903.3	892.6	863.7	847.7	844.7	838.5	832.5
12.5°	942.0	942.0	942.0	940.5	935.2	926.8	904.0	888.0	884.2	875.9	870.5
15°	968.6	965.7	962.6	960.3	961.1	961.1	944.3	932.1	926.1	921.5	910.8
17.5°	1025.7	1018.9	1012.0	1002.9	988.5	984.7	983.9	983.2	974.8	974.1	963.3
20°	1074.4	1068.4	1062.2	1053.1	1032.6	1010.6	1021.9	1032.6	1031.0	1031.9	1026.5
22.5°	1134.6	1130.0	1117.8	1107.1	1080.5	1053.9	1055.4	1078.3	1081.3	1084.3	1085.9
25°	1216.7	1214.4	1194.7	1174.1	1143.7	1118.6	1095.0	1123.1	1129.2	1136.1	1149.8
27.5°	1299.7	1294.3	1273.1	1254.8	1216.7	1190.1	1157.4	1172.6	1181.7	1194.7	1216.0
30°	1407.0	1392.5	1384.9	1343.9	1308.9	1270.0	1241.9	1246.5	1244.9	1260.1	1292.8
32.5°	1562.3	1539.3	1501.4	1460.3	1419.1	1367.4	1343.9	1343.0	1339.2	1356.7	1375.1
35°	1645.9	1640.6	1617.0	1575.9	1531.1	1482.4	1467.1	1452.6	1454.9	1464.0	1470.9
37.5°	1736.5	1731.9	1713.6	1690.8	1656.6	1683.2	1598.8	1577.4	1567.6	1563.0	1565.2
40°	1776.0	1779.8	1789.8	1793.5	1773.8	1901.6	1734.9	1665.0	1661.9	1655.0	1648.2
42.5°	1784.4	1794.3	1814.1	1857.5	1876.5	2154.9	1847.6	1763.1	1750.9	1745.6	1746.4
45°	1814.8	1830.1	1833.8	1873.4	1963.2	2167.9	1974.6	1849.8	1840.7	1840.0	1835.4
47.5°	1888.7	1909.2	1909.2	1926.7	2011.9	2193.0	2018.0	1936.5	1930.5	1927.4	1939.6
50°	1899.3	1926.7	1981.5	2037.8	2099.4	2213.6	2067.5	2031.0	2033.2	2040.1	2075.9
52.5°	1719.0	1746.4	1890.9	2056.8	2257.8	2269.9	2142.1	2156.5	2171.7	2205.2	2270.6
55°	1474.0	1493.7	1665.0	1930.5	2263.8	2483.7	2329.3	2369.6	2401.5	2411.4	2514.1
57.5°	1160.4	1187.9	1362.1	1706.8	2113.9	2544.6	2759.9	2778.2	2742.4	2775.2	2812.4
60°	628.5	625.5	868.3	1234.3	1798.9	2432.0	3175.4	3488.9	3496.5	3546.8	3486.6
62.5°	351.6	351.6	421.6	633.8	1157.4	2057.6	3374.8	4103.8	4198.9	4278.8	4454.5
65°	265.6	267.8	293.0	382.0	649.9	1298.9	3228.6	4313.8	4496.4	4679.8	4988.0
67.5°	220.7	220.7	239.0	284.6	406.3	589.7	2377.1	3892.2	4120.4	4339.7	4765.7
69°	204.7	205.4	219.1	250.3	340.1	383.5	1642.1	3300.2	3561.2	3864.8	4367.1
70°	197.1	194.8	207.8	233.6	308.2	302.9	1203.1	2869.5	3071.9	3344.3	3921.9
72.5°	175.0	172.8	179.6	199.4	242.7	216.1	490.8	1543.9	1849.1	2154.2	2614.6
75°	156.0	153.7	159.1	168.2	188.7	165.1	246.5	646.8	783.0	1012.0	1396.3
77.5°	137.7	133.2	137.7	143.8	148.4	123.3	167.5	299.0	366.7	450.5	636.2
80°	124.8	120.2	125.5	122.5	116.4	95.1	111.1	174.2	193.2	231.3	302.9
82.5°	89.0	88.3	119.5	123.3	92.9	69.3	79.2	111.8	124.8	131.7	159.8
85°	54.8	52.5	69.3	88.3	94.3	43.4	50.9	66.2	69.3	75.3	89.0
87.5°	28.1	28.9	37.2	45.6	61.7	25.9	30.5	38.8	38.8	38.8	44.1
90°	12.0	13.5	18.6	24.1	21.1	14.0	18.6	17.3	19.0	17.7	19.6
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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CATALOG NUMBER: IST-AF-800-LED-E1-T2-ULG

**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°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	754.8	752.6	749.5	750.3	748.8	746.4	747.3	746.4	747.3	745.7	744.2
5°	776.9	775.4	770.8	770.1	768.5	767.0	764.8	762.5	761.7	760.2	757.1
7.5°	802.0	797.5	795.1	792.2	788.3	782.3	781.5	778.5	776.1	774.7	770.8
10°	827.9	822.6	819.5	815.7	811.9	808.1	804.3	799.0	793.7	792.2	787.6
12.5°	866.7	859.9	853.8	847.7	843.8	837.1	831.7	824.9	819.5	817.2	809.7
15°	909.3	900.2	894.1	889.6	883.4	877.4	870.5	864.4	856.1	849.3	842.4
17.5°	959.5	951.1	946.6	938.3	930.6	923.8	918.4	910.8	904.0	891.8	885.8
20°	1025.7	1018.9	1013.5	1004.4	996.0	989.2	984.7	968.6	959.5	948.9	939.0
22.5°	1087.4	1088.1	1082.8	1076.8	1071.4	1062.2	1054.7	1043.2	1031.9	1018.9	1005.2
25°	1154.3	1160.4	1161.2	1159.7	1156.7	1146.0	1142.1	1130.8	1121.7	1100.3	1094.3
27.5°	1228.9	1235.7	1244.1	1254.8	1257.1	1245.6	1251.0	1239.6	1223.6	1214.4	1194.7
30°	1301.2	1320.2	1337.7	1349.9	1357.6	1362.9	1359.0	1355.2	1344.6	1329.3	1311.8
32.5°	1394.1	1413.8	1431.3	1457.9	1471.6	1488.4	1485.3	1486.9	1483.1	1467.8	1447.3
35°	1487.7	1505.2	1528.0	1545.5	1578.9	1597.2	1612.5	1611.7	1611.7	1602.6	1582.7
37.5°	1570.5	1580.5	1599.5	1628.4	1650.4	1679.4	1703.7	1713.6	1729.6	1730.4	1709.0
40°	1657.3	1667.2	1681.6	1703.0	1727.4	1761.6	1794.3	1826.3	1841.5	1857.5	1849.1
42.5°	1750.9	1761.6	1772.3	1786.0	1821.0	1847.6	1891.7	1935.1	1966.3	1998.9	1995.2
45°	1843.8	1855.9	1871.2	1891.7	1922.9	1966.3	2008.9	2057.6	2129.1	2167.9	2194.5
47.5°	1948.7	1968.6	1996.7	2029.4	2054.5	2099.4	2153.4	2228.8	2301.1	2368.0	2409.9
50°	2107.1	2114.6	2160.3	2192.3	2240.2	2285.9	2339.9	2406.1	2499.7	2568.2	2635.1
52.5°	2293.5	2322.4	2368.0	2404.5	2442.6	2488.2	2543.8	2603.2	2696.0	2772.9	2859.7
55°	2534.0	2575.0	2614.6	2634.4	2687.6	2728.7	2773.6	2832.2	2931.9	3015.6	3117.5
57.5°	2820.8	2861.9	2880.9	2909.8	2932.7	2978.3	3039.2	3078.8	3167.1	3253.8	3361.8
60°	3409.8	3383.9	3406.7	3361.8	3355.0	3358.8	3371.7	3402.1	3451.6	3532.2	3646.4
62.5°	4472.9	4435.5	4336.6	4300.8	4231.5	4138.0	4049.8	4037.6	4011.7	4072.6	4144.1
65°	5093.7	5229.2	5243.6	5281.7	5254.3	5181.2	5077.7	5044.3	4960.6	4902.0	4898.2
67.5°	4944.5	5147.8	5274.8	5435.3	5524.4	5611.2	5634.0	5663.7	5609.7	5583.1	5590.6
69°	4529.8	4680.5	4965.1	5074.8	5215.5	5331.1	5483.3	5509.9	5562.5	5570.1	5671.2
70°	4119.0	4340.4	4503.2	4667.6	4862.4	4989.4	5058.0	5170.6	5300.7	5364.7	5474.2
72.5°	2961.5	3033.9	3149.6	3362.5	3416.7	3548.3	3682.9	3778.8	3931.8	4039.8	4297.8
75°	1598.0	1641.3	1823.2	1944.2	1976.1	2019.5	2118.4	2142.1	2199.1	2234.1	2482.2
77.5°	729.8	796.0	819.5	885.8	848.4	866.7	890.3	885.0	900.9	977.0	1063.8
80°	336.3	349.2	358.4	385.8	387.3	381.3	383.5	379.7	376.7	388.8	397.9
82.5°	163.6	183.4	183.4	200.1	208.5	206.2	210.8	209.3	212.3	209.3	219.1
85°	95.9	95.9	103.5	112.6	111.1	114.2	114.2	120.2	121.0	122.5	122.5
87.5°	44.9	49.5	51.8	55.5	57.1	59.3	60.9	60.9	61.7	60.1	61.7
90°	20.7	20.7	28.2	28.2	29.8	32.0	28.9	30.5	35.8	28.9	34.3
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: P226300

CATALOG NUMBER: IST-AF-800-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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**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0
2.5°	742.7	744.2	743.5	740.4	739.6	739.6	738.2	737.3	735.8	735.1	736.6
5°	756.4	756.4	754.1	751.1	748.0	747.3	746.4	742.7	741.1	739.6	738.2
7.5°	769.3	767.8	764.8	759.4	756.4	755.7	752.6	748.8	744.9	741.9	740.4
10°	783.0	781.5	775.4	771.6	765.5	764.8	759.4	754.8	751.1	747.3	744.2
12.5°	802.8	801.3	794.4	785.3	780.7	777.6	770.8	765.5	760.2	755.7	750.3
15°	833.2	827.2	822.6	813.5	806.6	800.5	792.2	784.5	776.9	769.3	764.8
17.5°	875.9	867.5	855.3	850.0	840.9	830.9	819.5	814.2	804.3	795.1	786.0
20°	931.4	923.0	904.0	897.1	884.2	869.7	860.6	849.3	840.9	826.3	816.5
22.5°	993.0	985.4	967.2	948.9	936.7	925.3	910.8	896.4	880.5	866.7	856.1
25°	1073.0	1061.5	1045.6	1027.2	1009.0	993.0	973.2	952.7	939.0	919.9	904.8
27.5°	1181.7	1162.0	1135.3	1115.5	1101.1	1076.8	1052.4	1034.1	1012.8	987.7	971.0
30°	1299.7	1277.7	1257.8	1235.0	1210.7	1187.0	1153.6	1127.0	1104.2	1077.5	1050.1
32.5°	1430.6	1411.6	1383.4	1353.7	1327.1	1297.4	1273.1	1244.9	1205.3	1177.2	1148.3
35°	1562.3	1540.2	1511.2	1486.1	1455.7	1425.3	1397.9	1360.5	1324.8	1284.4	1244.1
37.5°	1689.3	1670.3	1638.3	1600.3	1573.6	1540.9	1512.7	1473.2	1430.6	1385.7	1355.2
40°	1830.8	1800.4	1778.3	1734.2	1706.8	1670.3	1630.0	1599.5	1558.4	1509.7	1466.3
42.5°	1992.9	1971.6	1948.0	1912.2	1883.4	1840.0	1788.9	1750.2	1712.1	1654.3	1594.2
45°	2198.3	2184.6	2145.8	2116.9	2078.1	2032.5	1988.3	1941.2	1881.0	1814.1	1759.3
47.5°	2444.9	2434.2	2399.2	2358.1	2307.2	2245.6	2204.5	2139.8	2088.8	2005.1	1939.6
50°	2668.6	2673.9	2655.0	2591.7	2546.1	2484.4	2419.8	2363.5	2285.1	2198.3	2114.6
52.5°	2935.7	2930.3	2882.5	2847.5	2793.4	2718.8	2648.1	2575.8	2489.8	2400.0	2295.7
55°	3191.4	3207.4	3173.9	3124.4	3058.9	2954.7	2883.2	2789.6	2699.1	2600.1	2479.9
57.5°	3439.5	3490.4	3464.5	3405.9	3339.0	3263.6	3169.3	3064.4	2970.8	2841.3	2705.9
60°	3748.4	3816.1	3826.8	3788.7	3715.7	3628.2	3504.1	3422.0	3293.4	3173.9	3069.7
62.5°	4224.0	4377.7	4368.5	4386.8	4335.1	4281.0	4135.7	4047.4	3880.1	3794.0	3648.7
65°	5018.4	5131.7	5268.0	5263.4	5227.7	5098.3	4947.6	4800.0	4689.7	4520.0	4368.5
67.5°	5684.9	5778.5	5859.3	5817.4	5735.2	5589.8	5413.4	5207.8	5039.7	4852.5	4653.9
69°	5747.3	5861.5	5908.7	5856.9	5709.3	5519.8	5347.2	5156.1	4924.8	4764.3	4522.3
70°	5580.0	5692.6	5787.8	5654.6	5519.1	5334.2	5145.4	4946.9	4739.8	4567.2	4322.9
72.5°	4432.4	4559.6	4546.6	4532.2	4424.1	4239.2	4065.7	3959.1	3813.9	3605.3	3428.8
75°	2577.3	2635.9	2533.1	2641.3	2511.9	2325.5	2349.8	2229.5	2123.0	2002.8	1910.0
77.5°	1012.0	1063.8	1009.8	992.3	934.5	921.5	824.9	836.3	788.3	694.0	650.6
80°	383.5	390.4	381.3	362.2	358.4	336.3	330.2	308.9	299.0	267.8	256.5
82.5°	206.2	210.0	204.0	197.8	193.2	180.3	172.0	156.0	146.9	137.0	136.3
85°	118.7	115.7	112.6	109.6	102.7	95.1	89.0	83.0	76.1	70.8	65.5
87.5°	62.4	63.1	63.9	60.9	56.3	50.2	46.4	44.1	38.8	36.5	34.3
90°	29.6	24.0	26.1	30.5	28.7	24.8	23.7	21.3	18.8	18.6	16.3
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

REPORT NUMBER: P226300  
 CATALOG NUMBER: IST-AF-800-LED-E1-T2-ULG

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

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°	110°	87°
729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	729.0	110°	119.1
734.3	734.3	732.0	730.5	725.2	716.1	707.0	698.6	687.1	682.5	676.5	112.5°	150.4
736.6	735.1	732.7	729.8	719.1	697.8	675.8	652.1	627.8	605.7	579.8	115°	181.5
738.2	735.1	732.0	728.2	713.0	680.3	636.2	589.7	546.4	513.6	499.9	117.5°	213.2
738.9	736.6	732.7	727.4	706.1	657.5	586.7	519.8	481.7	468.7	466.5	120°	248.6
747.3	743.5	737.3	731.3	703.1	632.4	531.1	467.2	452.0	458.1	468.7	122.5°	282.7
757.9	753.3	745.7	739.6	701.5	599.7	477.1	437.5	442.8	459.6	477.1	125°	317.1
776.9	769.3	761.0	754.8	704.6	559.2	433.7	422.3	438.3	459.6	483.2	127.5°	353.7
805.1	794.4	784.5	773.9	709.2	509.0	407.9	412.5	431.5	454.3	480.2	130°	388.1
840.0	827.9	814.2	798.2	714.5	465.6	393.4	401.8	419.3	439.1	460.3	132.5°	423.9
887.2	870.5	853.0	833.2	722.1	418.5	380.4	389.6	400.3	411.6	422.3	135°	460.7
946.6	923.8	904.8	878.1	729.8	386.6	369.8	372.9	375.1	376.7	375.9	137.5°	492.4
1025.7	990.7	968.6	936.0	738.2	369.8	357.6	353.8	350.1	344.7	338.6	140°	521.5
1109.5	1080.5	1045.6	1003.7	743.5	358.4	346.3	334.1	323.4	318.0	318.0	142.5°	547.1
1206.9	1171.1	1127.0	1074.4	736.6	346.3	331.0	315.1	308.9	315.8	313.5	145°	571.6
1304.3	1254.8	1206.1	1146.0	719.9	332.6	314.3	305.9	310.5	301.4	296.0	147.5°	597.2
1411.6	1356.7	1289.0	1219.1	695.5	318.0	305.9	310.5	294.5	283.9	288.4	150°	621.5
1531.8	1467.1	1394.1	1298.9	679.5	308.9	293.0	296.8	283.1	275.5	273.1	152.5°	639.3
1695.3	1603.3	1514.3	1402.4	691.7	294.5	267.8	283.1	275.5	268.6	262.5	155°	653.9
1855.9	1757.7	1652.8	1521.1	713.0	283.9	248.1	268.6	273.9	262.5	251.1	157.5°	667.0
2017.3	1913.0	1790.5	1643.7	738.9	277.0	232.8	251.1	270.2	256.5	247.3	160°	677.6
2187.0	2055.3	1929.7	1771.4	772.3	270.2	220.7	235.9	263.3	256.5	242.7	162.5°	685.8
2365.0	2209.8	2084.3	1913.0	830.9	260.2	205.4	223.7	256.5	255.6	238.1	165°	695.2
2572.0	2433.5	2272.2	2097.9	912.4	248.8	191.8	214.6	250.3	252.7	232.8	167.5°	706.2
2924.3	2781.2	2586.4	2420.5	1073.7	233.6	183.4	205.4	240.5	246.5	228.3	170°	714.0
3495.7	3301.0	3122.1	2966.9	1349.9	212.3	177.3	195.6	229.8	239.0	224.4	172.5°	714.0
4150.9	3960.7	3744.6	3483.6	1503.6	192.5	168.9	183.4	219.1	231.3	220.7	175°	712.0
4429.5	4180.6	3918.1	3608.4	1356.7	176.6	159.8	172.0	206.9	220.7	215.3	177.5°	715.7
4301.6	4049.8	3744.6	3441.0	1180.2	168.2	154.5	165.9	197.8	213.8	210.0	180°	716.1
4079.4	3826.0	3553.6	3189.0	1053.9	163.6	150.7	162.0	194.1	210.0	206.9		
3226.4	3000.4	2749.3	2471.6	718.3	148.4	138.5	150.7	178.8	196.3	195.6		
1709.9	1643.7	1457.9	1295.2	372.1	132.4	125.5	137.7	165.1	183.4	183.4		
615.6	558.5	534.2	443.7	197.8	115.7	112.6	121.7	149.9	167.5	166.6		
232.8	226.8	203.2	190.3	125.5	94.3	95.1	104.2	131.7	148.4	147.6		
131.7	119.5	115.7	111.8	79.9	74.6	78.4	87.5	112.6	127.1	129.4		
63.1	58.6	57.1	53.3	52.5	57.1	61.7	69.3	89.8	107.3	105.1		
30.5	28.9	28.1	27.4	37.2	36.5	44.9	48.0	60.1	85.2	76.8		
17.1	17.1	16.3	14.7	17.8	21.4	23.6	27.7	32.2	57.7	48.5		
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		

'226300  
 IST-AF-800-LED-E1-T2-ULG

REPORT NUMBER: P226300  
 CATALOG NUMBER: IST-AF-80

**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°	729.0	729.0
150.4	150.4	150.4	150.4	152.4	153.4	151.4	146.3	137.1	123.8	2.5°	671.2	660.5
181.7	181.9	182.1	181.1	183.1	186.2	183.1	178.0	171.9	162.6	5°	560.8	559.2
213.4	213.6	213.8	212.8	214.8	219.9	215.8	209.7	206.6	201.5	7.5°	491.5	481.7
248.6	248.6	248.6	248.6	250.6	255.7	251.6	248.6	242.4	238.3	10°	468.7	468.0
282.9	283.2	283.4	282.3	284.4	289.5	285.4	283.4	277.2	273.1	12.5°	478.6	480.9
317.1	317.1	317.1	317.1	317.1	322.2	320.2	317.1	312.0	305.9	15°	491.5	496.1
354.1	354.6	355.0	352.9	353.9	353.9	352.9	347.8	346.8	340.6	17.5°	499.9	508.3
388.3	388.5	388.7	387.7	389.7	389.7	385.7	380.5	378.5	374.4	20°	497.7	507.6
424.1	424.3	424.5	423.5	423.5	425.5	420.4	414.3	413.3	410.2	22.5°	472.5	477.1
460.9	461.1	461.4	460.3	457.3	458.3	453.2	447.0	445.0	441.9	25°	427.7	429.1
492.7	492.9	493.1	492.0	486.9	485.9	483.9	478.7	474.6	470.6	27.5°	373.6	372.1
521.9	522.3	522.7	520.7	515.6	513.5	511.5	508.4	502.3	500.2	30°	335.5	325.7
547.5	547.9	548.3	546.3	545.2	545.2	539.1	537.0	533.0	529.9	32.5°	318.0	312.0
572.0	572.4	572.9	570.8	573.9	574.9	568.8	563.6	562.6	559.6	35°	305.9	296.0
597.6	598.0	598.4	596.4	599.4	598.4	593.3	588.2	587.2	587.2	37.5°	317.3	316.5
622.4	623.2	624.0	619.9	616.8	613.8	610.7	606.6	606.6	606.6	40°	328.0	326.4
640.4	641.4	642.4	637.3	632.2	628.1	625.0	624.0	624.0	623.0	42.5°	309.7	296.0
654.5	655.1	655.7	652.6	650.6	645.5	640.4	642.4	644.5	641.4	45°	276.2	260.2
668.0	669.0	670.0	664.9	664.9	662.9	658.8	659.8	660.8	658.8	47.5°	253.4	244.3
678.8	680.1	681.3	675.1	676.2	679.2	673.1	670.0	670.0	671.1	50°	242.7	239.7
687.0	688.2	689.5	683.3	685.4	686.4	682.3	678.2	676.2	680.3	52.5°	239.7	247.3
696.0	696.8	697.7	693.6	695.6	692.5	687.4	688.4	688.4	691.5	55°	238.1	246.5
707.5	708.7	709.9	703.8	703.8	699.7	693.6	700.7	703.8	701.7	57.5°	227.5	241.9
715.0	716.1	717.1	712.0	709.9	704.8	701.7	706.9	708.9	707.9	60°	219.9	237.4
715.0	716.1	717.1	712.0	709.9	707.9	704.8	705.8	705.8	708.9	62.5°	215.3	235.2
713.0	714.0	715.0	709.9	712.0	711.0	705.8	705.8	706.9	711.0	65°	211.5	236.6
716.5	717.3	718.1	714.0	717.1	715.0	709.9	711.0	713.0	715.0	67.5°	205.4	241.2
716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	69°	202.4	240.5
										70°	199.4	238.1
										72.5°	188.7	219.9
										75°	175.7	194.1
										77.5°	159.1	166.6
										80°	140.8	145.4
										82.5°	122.5	140.0
										85°	95.9	118.7
										87.5°	70.8	65.5
										90°	47.5	34.8
										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: P226300

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

0-LED-E1-T2-ULG

**tinued):**

180°
729.0
662.8
554.7
482.4
470.3
479.4
497.7
511.4
509.8
480.9
430.7
378.2
333.3
318.9
300.5
320.4
329.5
299.0
260.2
242.7
238.1
249.6
245.8
242.7
238.1
234.4
233.6
235.2
<b>232.1</b>
228.3
205.4
184.9
166.6
146.9
124.1
92.9
70.8
30.2
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

