

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: P228310

Luminaire Tested: **ISS-AF-800-LED-E1-SL4-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-800-LED-E1-SL4-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCUED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

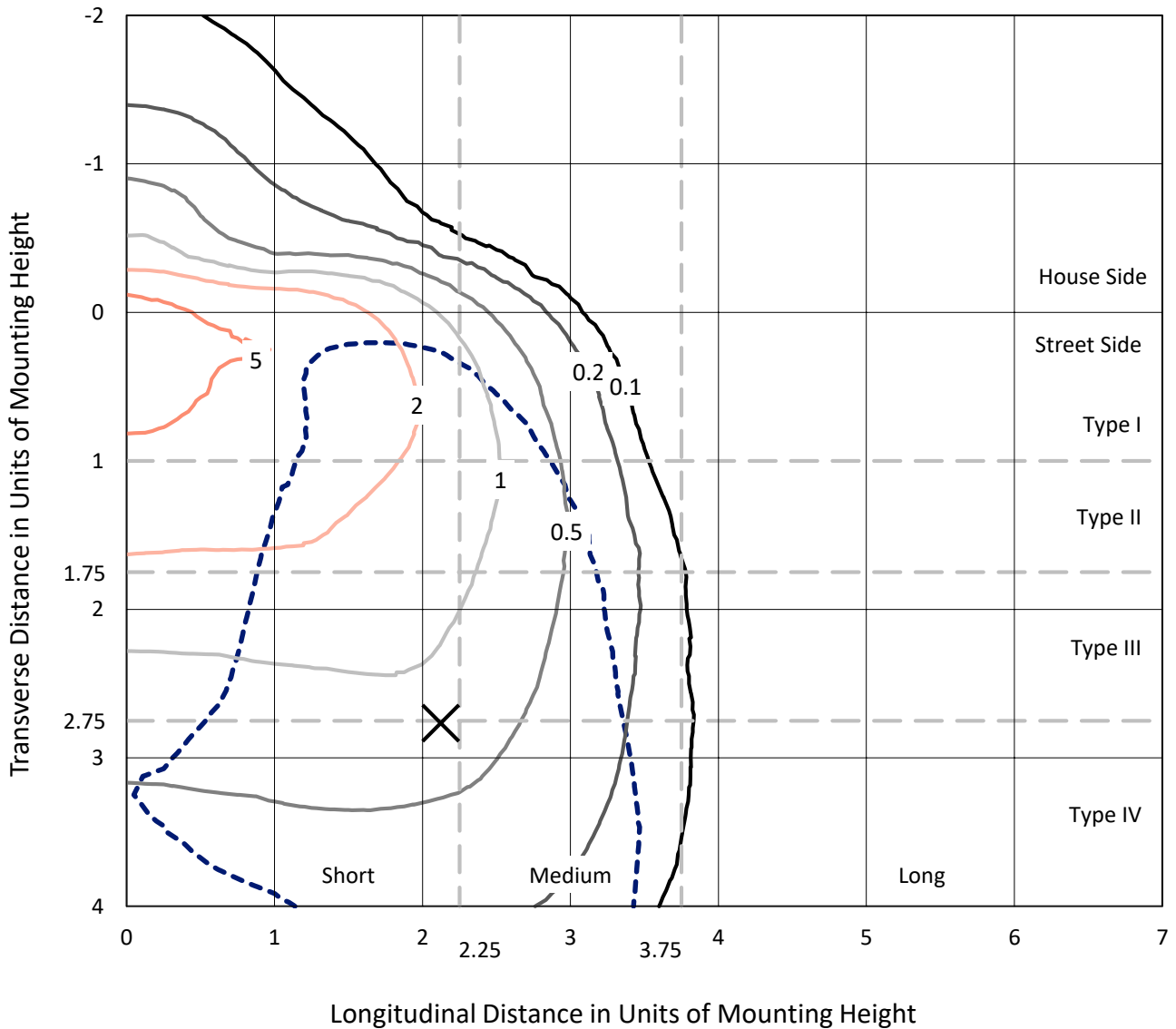
Lumens per Lamp: N/A  
Luminaire Lumens: 5884.2 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 60.2  
Input Voltage (V): 120  
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



REPORT NUMBER: P228310  
 CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

### Iso-Footcandle Lines of Horizontal Illumination

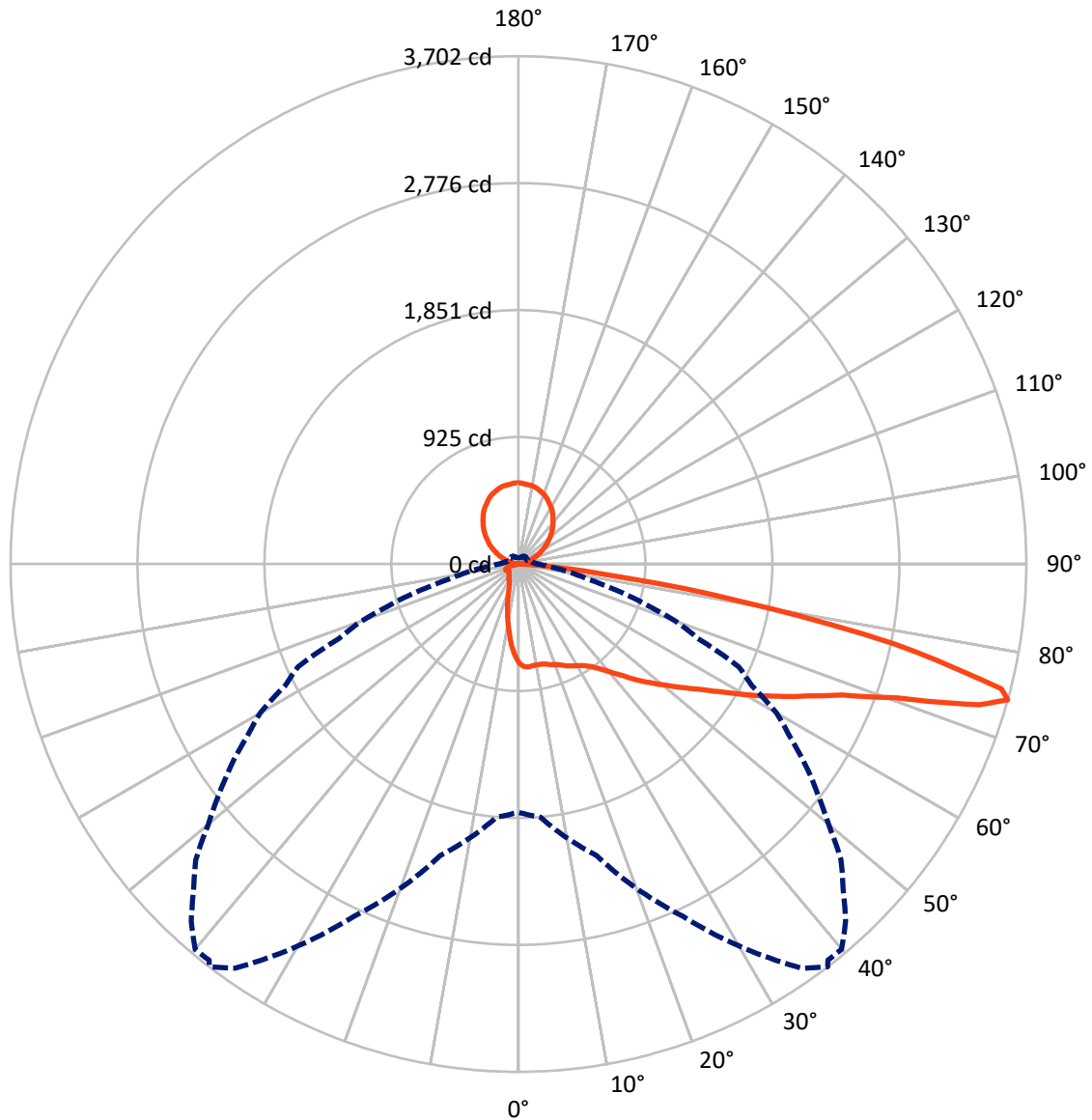
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228310  
CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

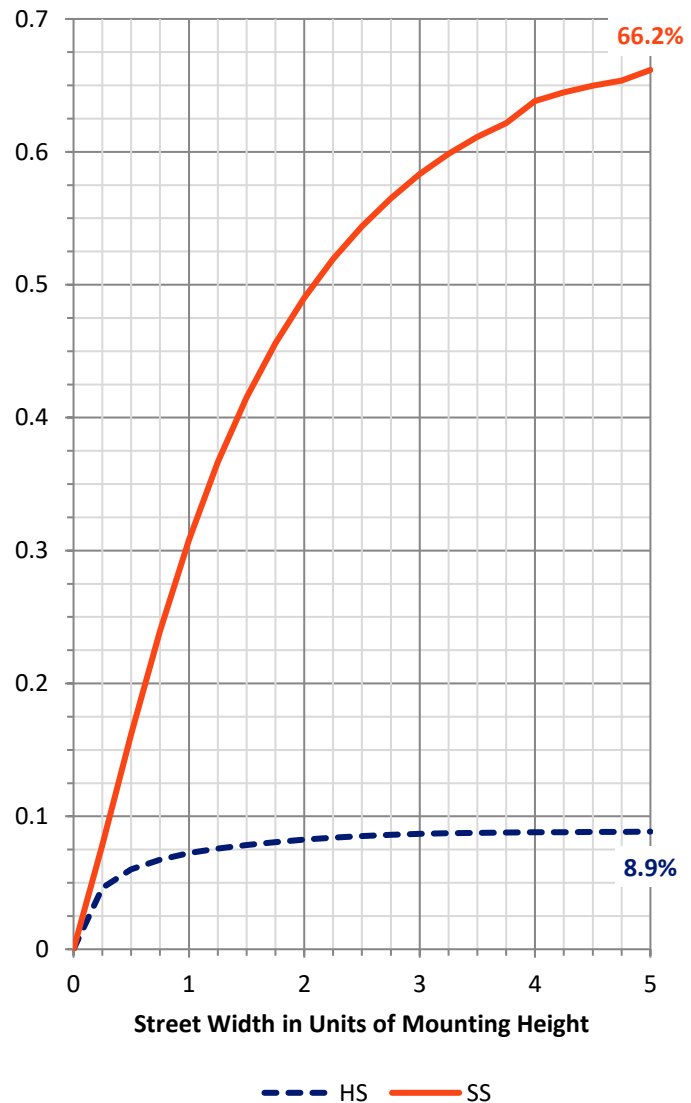
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	524.7	729.4	1254.2
	% Fixture	8.9	12.4	21.3
<b>Street Side</b>	Lumens	3900.6	729.4	4630.0
	% Fixture	66.3	12.4	78.7
<b>Total</b>	Lumens	4425.3	1458.9	5884.2
	% Fixture	75.2	24.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	1.1
10°-20°	160.2	2.7
20°-30°	248.2	4.2
30°-40°	368.1	6.3
40°-50°	566.3	9.6
50°-60°	837.1	14.2
60°-70°	1115.8	19.0
70°-80°	963.1	16.4
80°-90°	103.6	1.8
90°-100°	4.8	0.1
100°-110°	70.6	1.2
110°-120°	156.6	2.7
120°-130°	229.0	3.9
130°-140°	271.7	4.6
140°-150°	275.5	4.7
150°-160°	236.4	4.0
160°-170°	158.7	2.7
170°-180°	55.6	0.9
0°-90°	4425.3	75.2
0°-180°	5884.2	100.0



REPORT NUMBER: P228310

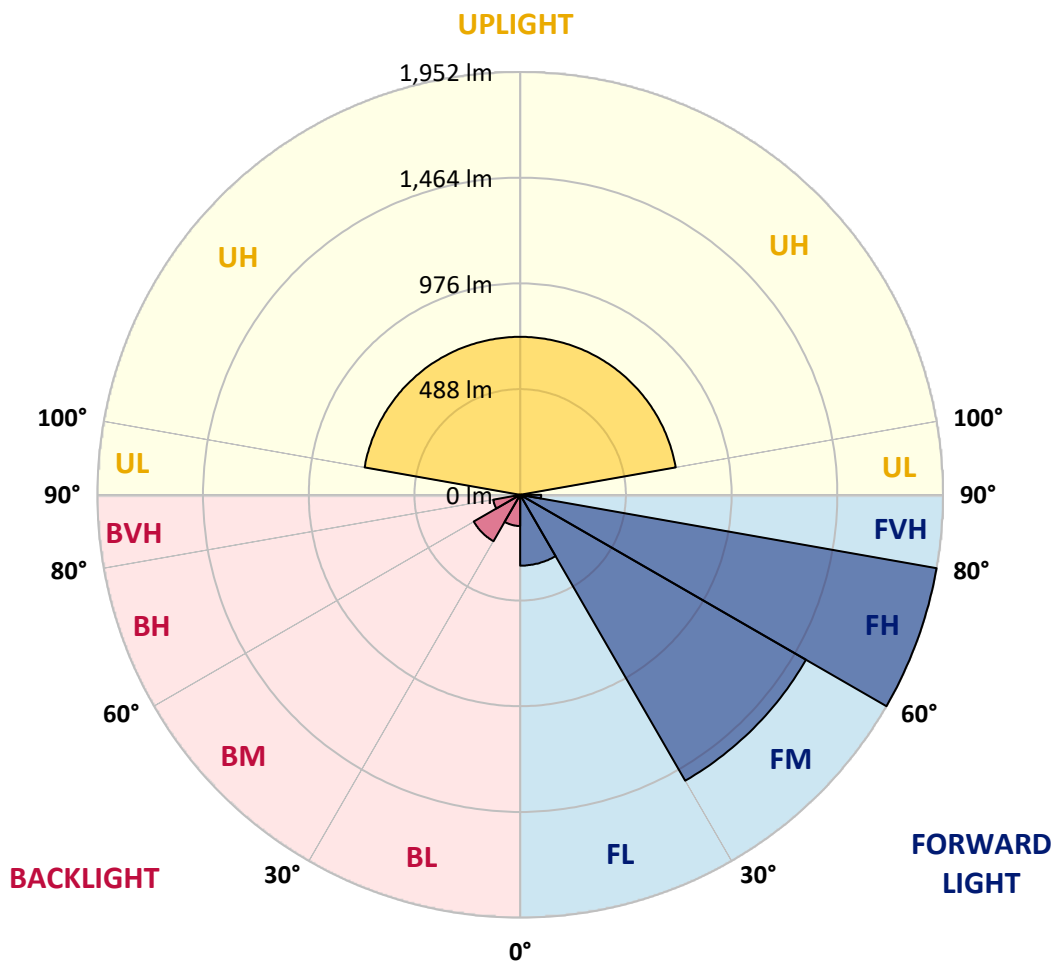
CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.2	5.6			
FM	(30°-60°)	1524.2	25.9			
FH	(60°-80°)	1952.4	33.2			G2/5000
FVH	(80°-90°)	96.8	1.6			G1/100
BL	(0°-30°)	144.1	2.4	B1/500		
BM	(30°-60°)	247.3	4.2	B1/1000		
BH	(60°-80°)	126.5	2.2	B1/500		G1/500
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	12.4		U4/1000	

**BUG Rating: B1-U5-G2**

Type IV Short



REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1
2.5°	763.4	761.8	758.5	756.9	753.5	748.6	753.5	747.0	743.6	747.0	740.3
5°	776.6	775.0	771.7	765.1	761.8	753.5	758.5	750.2	748.6	751.9	743.6
7.5°	778.4	775.0	770.1	761.8	758.5	748.6	751.9	741.9	738.7	741.9	737.0
10°	773.4	771.7	766.8	753.5	750.2	747.0	745.3	738.7	737.0	735.4	733.7
12.5°	765.1	765.1	761.8	756.9	755.1	748.6	750.2	743.6	745.3	741.9	738.7
15°	761.8	760.2	763.4	766.8	766.8	756.9	763.4	758.5	755.1	756.9	751.9
17.5°	758.5	760.2	771.7	778.4	781.6	771.7	781.6	771.7	765.1	773.4	765.1
20°	756.9	761.8	781.6	796.5	798.1	781.6	798.1	781.6	781.6	791.6	776.6
22.5°	765.1	773.4	801.5	818.0	821.3	799.8	819.6	798.1	798.1	806.4	791.6
25°	791.6	799.8	831.2	849.4	846.1	823.0	841.1	819.6	818.0	827.9	808.0
27.5°	826.2	837.8	867.6	884.0	872.5	841.1	867.6	836.2	836.2	851.0	824.6
30°	875.9	884.0	910.5	912.2	897.3	859.3	889.0	854.4	849.4	875.9	842.8
32.5°	930.4	936.9	956.8	945.2	923.7	884.0	918.8	877.5	875.9	903.9	865.9
35°	988.2	994.8	1001.4	981.6	961.8	918.8	956.8	915.4	913.8	945.2	908.9
37.5°	1047.7	1047.7	1047.7	1024.6	1011.3	970.0	1004.7	971.7	968.3	1001.4	966.7
40°	1095.6	1098.9	1093.9	1072.5	1065.8	1036.1	1065.8	1036.1	1041.1	1070.8	1042.7
42.5°	1135.3	1138.5	1140.2	1122.1	1128.6	1112.2	1135.3	1113.8	1115.4	1148.5	1132.0
45°	1175.0	1173.2	1186.5	1181.5	1201.4	1203.0	1216.2	1208.0	1211.3	1236.0	1231.1
47.5°	1216.2	1208.0	1222.8	1244.3	1280.6	1292.3	1300.5	1303.9	1317.0	1328.6	1340.2
50°	1255.9	1247.6	1257.5	1305.5	1363.3	1388.0	1389.8	1406.3	1421.2	1437.7	1460.8
52.5°	1297.2	1290.6	1300.5	1368.3	1460.8	1495.5	1490.5	1518.7	1540.2	1558.3	1596.3
55°	1340.2	1333.5	1343.4	1444.3	1564.9	1612.8	1607.9	1647.6	1688.9	1695.4	1738.4
57.5°	1381.5	1373.2	1401.3	1533.5	1688.9	1761.5	1738.4	1799.6	1839.3	1835.9	1895.4
60°	1426.1	1419.4	1464.1	1642.6	1844.2	1938.4	1903.7	1984.6	2012.8	2001.2	2057.4
62.5°	1469.1	1467.4	1541.8	1769.8	2032.6	2123.4	2092.0	2163.1	2183.0	2168.0	2196.2
65°	1508.8	1518.7	1626.1	1897.1	2214.4	2318.4	2275.5	2346.5	2369.7	2358.1	2406.0
67.5°	1574.8	1586.4	1730.1	2059.0	2439.0	2546.4	2510.1	2584.5	2619.2	2615.9	2668.8
70°	1672.3	1693.8	1883.9	2288.6	2781.1	2918.3	2898.4	2989.4	3073.7	3067.0	3119.9
72.5°	1842.5	1877.2	2136.6	2645.7	3343.0	3509.8	3486.7	3538.0	3523.1	3402.4	3304.9
74°	1809.5	1852.5	2199.4	2832.3	3595.8	3701.5	3663.6	3665.2	3529.7	3346.3	3189.3
75°	1688.9	1733.5	2108.6	2809.2	3577.7	3635.5	3580.9	3513.2	3349.6	3162.9	2969.5
77.5°	1158.4	1216.2	1550.1	2268.9	2880.3	2800.9	2787.7	2658.9	2442.4	2232.5	1984.6
80°	593.2	634.5	801.5	1186.5	1708.6	1629.4	1655.7	1551.7	1371.6	1219.6	966.7
82.5°	142.1	152.0	236.3	459.4	740.3	677.5	687.4	608.1	504.0	411.4	319.0
85°	74.4	84.3	115.7	127.3	195.0	201.6	196.6	190.1	155.3	130.5	114.1
87.5°	0.0	0.0	0.0	3.3	1.6	0.0	1.6	0.0	0.0	1.6	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.1	4.1	5.3	5.6	6.6	8.0	9.2	10.2
100°	8.2	8.2	10.2	14.3	22.5	24.6	25.0	26.6	28.6	30.7	31.2
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	47.6	48.6	49.9	51.1	51.4
105°	55.2	55.2	57.3	62.4	67.5	68.5	68.7	69.6	70.6	71.6	71.8
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	90.9	91.6	92.3	93.1	93.6



REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.1	113.5	114.1	114.6	115.1
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	135.6	136.1	136.6	137.1	137.6
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.1	158.6	159.1	159.6	160.1
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	181.7	182.1	182.6	183.1	183.3
120°	197.4	199.5	200.5	202.5	205.6	205.8	205.9	206.1	206.4	206.6	207.1
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.5	231.7	232.0	232.2	232.4
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.1	257.3	257.6	257.8	258.0
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	280.9	281.3	281.8	282.3	282.8
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.1	305.4	305.7	305.9	306.4
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.7	328.9	329.2	329.4	330.2
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	352.9	353.7
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.4	375.9
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.2	397.4	397.7	397.9	398.1
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.4	419.9
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.2	441.4	441.7	441.9	442.4
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.7	462.9	463.2	463.4	463.6
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.1	480.3	480.6	480.8	481.0
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.4	496.6	496.9	497.2	497.4
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.5	514.7
157.5°	524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.9	530.9
160°	537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	544.2	544.2
162.5°	547.3	548.3	551.4	550.3	553.4	553.4	553.4	553.4	553.4	553.4	553.6
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.7	564.9
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.6	573.4	573.1	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.7	579.5	579.2	579.0	578.8
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.8	581.5	581.2	581.0	581.2
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.1	585.3
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	591.0	590.8	590.4	590.2	590.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2





REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1
2.5°	745.3	741.9	745.3	735.4	740.3	732.0	735.4	727.1	730.4	723.8	725.5
5°	748.6	740.3	745.3	737.0	738.7	732.0	730.4	727.1	725.5	720.5	717.2
7.5°	740.3	733.7	732.0	728.8	723.8	725.5	718.8	717.2	712.2	712.2	702.3
10°	732.0	733.7	723.8	727.1	718.8	720.5	708.9	712.2	704.0	710.5	695.7
12.5°	738.7	740.3	732.0	737.0	722.1	725.5	715.6	720.5	708.9	717.2	699.0
15°	753.5	751.9	748.6	748.6	733.7	740.3	728.8	732.0	720.5	730.4	710.5
17.5°	766.8	765.1	760.2	758.5	748.6	750.2	738.7	745.3	732.0	740.3	720.5
20°	781.6	773.4	771.7	770.1	758.5	758.5	750.2	753.5	740.3	750.2	727.1
22.5°	793.2	786.5	784.9	778.4	770.1	773.4	761.8	763.4	750.2	760.2	740.3
25°	811.4	803.1	803.1	793.2	788.3	786.5	780.0	784.9	771.7	778.4	760.2
27.5°	836.2	818.0	824.6	814.7	811.4	809.8	806.4	809.8	799.8	804.8	786.5
30°	859.3	836.2	846.1	832.9	839.4	832.9	837.8	832.9	832.9	832.9	824.6
32.5°	890.7	862.6	882.4	862.6	875.9	865.9	882.4	872.5	879.1	877.5	874.2
35°	935.3	902.2	930.4	903.9	927.0	913.8	936.9	932.0	945.2	938.7	945.2
37.5°	994.8	960.1	993.2	968.3	996.5	976.6	1009.7	1006.4	1034.4	1024.6	1034.4
40°	1069.2	1044.3	1069.2	1051.0	1080.7	1072.5	1107.1	1108.8	1140.2	1135.3	1146.8
42.5°	1151.7	1133.6	1158.4	1148.5	1178.2	1184.8	1224.5	1234.4	1264.2	1272.4	1274.1
45°	1241.0	1237.7	1257.5	1267.4	1297.2	1317.0	1351.7	1376.5	1409.5	1427.7	1424.5
47.5°	1345.1	1358.4	1371.6	1396.3	1422.8	1464.1	1498.8	1530.2	1568.2	1579.7	1584.8
50°	1462.4	1485.6	1497.2	1531.9	1558.3	1609.5	1657.5	1697.1	1738.4	1733.5	1736.8
52.5°	1586.4	1616.2	1632.6	1674.0	1708.6	1768.2	1809.5	1847.4	1898.7	1885.5	1880.5
55°	1723.6	1768.2	1781.4	1827.6	1857.4	1918.5	1954.9	2020.9	2042.4	2029.2	2001.2
57.5°	1868.9	1921.8	1936.8	1999.5	2014.4	2080.5	2111.9	2156.5	2174.7	2153.2	2116.8
60°	2034.2	2082.1	2093.7	2149.9	2169.7	2230.9	2254.0	2293.7	2306.9	2254.0	2202.7
62.5°	2199.4	2249.1	2255.6	2305.2	2325.1	2378.0	2404.3	2427.5	2420.9	2343.3	2278.8
65°	2387.9	2435.7	2452.3	2501.8	2513.4	2553.1	2574.6	2548.2	2533.2	2415.9	2343.3
67.5°	2687.0	2738.1	2744.8	2756.3	2754.7	2734.9	2724.9	2634.1	2567.9	2351.5	2247.4
70°	3080.2	3042.3	2967.9	2882.0	2819.2	2706.7	2640.6	2454.0	2315.1	2072.2	1897.1
72.5°	3151.3	3027.3	2843.9	2696.9	2544.8	2368.0	2225.9	1943.3	1748.3	1493.8	1308.8
74°	2949.7	2748.1	2554.7	2348.2	2173.1	1915.3	1771.4	1414.5	1221.2	963.4	738.7
75°	2706.7	2470.4	2252.3	1989.6	1826.0	1516.9	1381.5	996.5	803.1	571.7	385.0
77.5°	1726.8	1444.3	1236.0	932.0	804.8	555.3	406.5	252.9	186.7	163.6	142.1
80°	775.0	551.9	437.9	302.4	252.9	193.3	163.6	132.2	120.6	105.8	100.8
82.5°	247.9	198.2	188.4	168.6	168.6	135.5	115.7	90.8	82.7	71.1	64.4
85°	107.4	100.8	104.1	95.9	97.5	74.4	59.5	44.6	44.6	31.4	28.1
87.5°	3.3	0.0	1.6	0.0	3.3	0.0	1.6	0.0	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	11.3	12.3	13.3	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	31.7	32.2	32.7	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	51.7	52.0	52.2	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.1	72.4	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.1	94.6	95.1	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1

REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

**CANDELA DISTRIBUTION (continued):**

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	115.6	116.1	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6
112.5°	138.1	138.6	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	160.6	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.6	183.9	184.1	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	207.7	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	232.7	233.0	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.3	258.6	258.8	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.4	283.9	284.4	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	306.9	307.4	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	330.9	331.6	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	354.5	355.2	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	376.4	377.0	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.4	398.7	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.4	420.9	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	442.9	443.4	444.0	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	463.9	464.2	464.4	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.3	481.6	481.8	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	497.7	498.0	498.2	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.1	515.4	515.6	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.9	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	544.2	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	553.9	554.2	554.4	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.2	565.5	565.7	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.9	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.5	578.2	578.0	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.5	581.9	582.1	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.6	585.9	586.2	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	590.2	589.4	588.7	588.0	587.2	587.2	587.2	587.2	587.2
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2



REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1
2.5°	718.8	722.1	720.5	713.9	712.2	707.3	695.7	697.3	690.7	695.7	687.4
5°	712.2	710.5	704.0	695.7	687.4	677.5	669.2	665.9	659.3	656.0	651.1
7.5°	702.3	695.7	684.1	671.0	659.3	646.1	639.5	628.0	624.6	613.1	611.4
10°	699.0	687.4	674.2	657.7	637.8	618.1	616.3	596.6	594.8	576.7	571.7
12.5°	705.6	690.7	674.2	654.4	631.3	603.1	603.1	573.4	571.7	547.0	538.7
15°	718.8	700.6	679.1	656.0	626.3	591.6	589.9	555.3	551.9	522.2	512.3
17.5°	730.4	705.6	685.8	654.4	619.7	580.0	571.7	537.0	530.4	495.7	482.5
20°	738.7	710.5	687.4	651.1	608.1	561.8	550.2	513.9	499.1	464.3	446.2
22.5°	748.6	722.1	690.7	649.5	601.5	547.0	522.2	489.2	467.7	431.3	406.5
25°	763.4	740.3	702.3	654.4	596.6	532.1	499.1	464.3	434.7	398.2	361.9
27.5°	786.5	763.4	718.8	661.0	594.8	517.2	480.9	437.9	401.5	361.9	320.6
30°	819.6	794.8	747.0	679.1	596.6	505.6	461.0	414.8	371.8	325.5	282.5
32.5°	862.6	842.8	783.3	699.0	603.1	495.7	442.8	389.9	337.1	292.5	254.5
35°	922.1	908.9	834.5	737.0	619.7	490.8	424.7	366.8	307.4	262.8	221.5
37.5°	1009.7	991.4	908.9	791.6	646.1	487.4	411.4	338.8	282.5	234.7	200.0
40°	1120.3	1095.6	996.5	857.6	687.4	489.2	399.9	317.3	261.1	209.9	181.8
42.5°	1252.6	1216.2	1103.9	938.7	728.8	492.4	393.3	297.5	244.6	190.1	168.6
45°	1401.3	1360.0	1231.1	1039.4	788.3	500.7	388.3	280.9	229.7	175.1	160.3
47.5°	1546.7	1505.4	1361.6	1140.2	849.4	515.6	391.7	271.0	219.7	166.9	150.4
50°	1688.9	1645.8	1477.3	1231.1	902.2	535.4	404.9	272.6	218.1	163.6	145.5
52.5°	1814.4	1761.5	1576.5	1302.1	940.3	548.6	416.4	277.6	219.7	161.9	143.7
55°	1940.0	1872.3	1655.7	1358.4	963.4	550.2	416.4	279.3	221.5	161.9	142.1
57.5°	2034.2	1956.5	1716.9	1391.4	971.7	542.1	406.5	271.0	211.5	160.3	138.8
60°	2093.7	2011.1	1759.9	1412.9	960.1	507.3	353.6	239.6	186.7	148.7	128.9
62.5°	2143.3	2059.0	1773.1	1376.5	862.6	403.2	276.0	195.0	155.3	132.2	119.0
65°	2154.8	2054.1	1680.6	1216.2	674.2	279.3	200.0	153.6	127.3	117.3	107.4
67.5°	1979.7	1859.0	1412.9	951.9	459.4	191.7	148.7	125.6	109.0	104.1	100.8
70°	1609.5	1477.3	1034.4	623.0	256.1	133.8	114.1	104.1	94.2	94.2	89.2
72.5°	1037.8	900.6	530.4	266.1	130.5	102.5	92.6	89.2	81.0	82.7	77.6
74°	530.4	413.2	216.5	140.5	107.4	90.8	82.7	81.0	72.7	74.4	69.4
75°	269.3	213.2	152.0	117.3	99.1	85.9	76.0	76.0	66.1	67.7	62.8
77.5°	125.6	120.6	104.1	92.6	84.3	72.7	62.8	61.2	51.2	54.5	47.9
80°	87.6	87.6	81.0	77.6	69.4	59.5	47.9	47.9	38.1	39.7	34.7
82.5°	49.6	46.2	46.2	52.9	54.5	44.6	34.7	33.0	28.1	28.1	23.1
85°	21.5	24.8	29.8	36.3	39.7	34.7	24.8	23.1	14.8	14.8	8.3
87.5°	0.0	1.6	1.6	3.3	6.6	6.6	0.0	3.3	0.0	1.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.9	4.6	4.1	4.1	4.1	4.6	4.9	5.1	5.6	6.1	6.6
100°	27.4	27.1	26.6	25.6	26.6	27.1	27.4	27.6	28.4	29.2	29.9
102.5°	49.3	49.6	50.1	49.1	50.1	49.6	49.3	49.1	49.6	50.1	50.6
105°	71.1	71.6	72.6	70.6	72.6	71.6	71.1	70.6	71.1	71.6	72.1
107.5°	93.3	93.6	94.1	93.1	94.1	93.6	93.3	93.1	93.3	93.6	93.9



REPORT NUMBER: P228310  
 CATALOG NUMBER: ISS-AF-800-LED-E1-SL4-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	115.8	116.1	116.6	115.6	116.6	116.1	115.8	115.6	115.8	116.1	116.4	0°
112.5°	138.6	139.1	140.1	138.1	140.1	139.1	138.6	138.1	138.3	138.6	138.9	2.5°
115°	162.1	162.6	163.7	162.6	163.7	162.6	162.1	161.6	161.6	161.6	161.6	5°
117.5°	184.6	185.2	186.2	184.1	186.2	185.2	184.6	184.1	184.3	184.6	184.9	7.5°
120°	209.2	209.7	210.7	208.7	210.7	209.7	209.2	208.7	208.7	208.7	208.7	10°
122.5°	235.3	236.3	238.3	237.3	238.3	236.3	235.3	234.3	234.1	233.7	233.4	12.5°
125°	260.6	261.4	262.9	261.9	262.9	261.4	260.6	259.8	259.8	259.8	259.8	15°
127.5°	285.2	285.9	287.4	284.4	287.4	285.9	285.2	284.4	284.2	283.9	283.6	17.5°
130°	309.7	310.5	312.0	310.0	312.0	310.5	309.7	308.9	308.7	308.4	308.1	20°
132.5°	334.3	335.0	336.6	334.5	336.6	335.0	334.3	333.5	333.3	333.0	332.7	22.5°
135°	357.5	358.0	359.1	358.0	359.1	358.0	357.5	357.0	356.8	356.5	356.2	25°
137.5°	379.5	380.5	382.6	380.5	382.6	380.5	379.5	378.5	378.3	378.0	377.7	27.5°
140°	402.0	403.0	405.1	403.0	405.1	403.0	402.0	401.0	400.5	400.0	399.5	30°
142.5°	423.3	424.0	425.5	424.5	425.5	424.0	423.3	422.5	422.3	422.0	421.7	32.5°
145°	444.8	445.5	447.0	445.0	447.0	445.5	444.8	444.0	443.8	443.4	443.1	35°
147.5°	464.2	464.9	466.5	463.4	466.5	464.9	464.2	463.4	463.2	462.9	462.6	37.5°
150°	480.8	481.8	483.9	480.8	483.9	481.8	480.8	479.8	479.8	479.8	479.8	40°
152.5°	498.0	498.7	500.2	497.2	500.2	498.7	498.0	497.2	497.2	497.2	497.2	42.5°
155°	516.4	517.1	518.6	516.6	518.6	517.1	516.4	515.6	515.4	515.1	514.7	45°
157.5°	531.1	532.4	535.0	531.9	535.0	532.4	531.1	529.9	529.7	529.4	529.1	47.5°
160°	543.0	543.7	545.2	543.2	545.2	543.7	543.0	542.2	542.2	542.2	542.2	50°
162.5°	550.9	551.4	552.4	549.3	552.4	551.4	550.9	550.3	550.9	551.4	551.9	52.5°
165°	561.1	561.6	562.6	560.6	562.6	561.6	561.1	560.6	561.1	561.6	562.1	55°
167.5°	572.9	573.9	575.9	573.9	575.9	573.9	572.9	571.8	571.6	571.3	571.0	57.5°
170°	580.2	581.5	584.1	582.1	584.1	581.5	580.2	579.0	578.5	578.0	577.5	60°
172.5°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	580.8	580.5	580.2	62.5°
175°	581.9	582.6	584.1	581.0	584.1	582.6	581.9	581.0	581.5	582.1	582.6	65°
177.5°	588.0	588.7	590.2	587.2	590.2	588.7	588.0	587.2	587.2	587.2	587.2	67.5°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°
												72.5°
												74°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P228310  
 NUMBER: ISS-AF-800-LED-E1-SL4-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	722.1	110°	116.6
690.7	682.5	687.4	679.1	682.5	674.2	677.5	672.6	667.6	661.0	659.3	112.5°	139.1
646.1	639.5	637.8	629.6	631.3	624.6	618.1	609.8	599.9	586.7	581.6	115°	161.6
596.6	594.8	583.3	578.4	571.7	565.2	553.6	540.3	520.6	502.4	490.8	117.5°	185.2
553.6	548.6	532.1	523.9	513.9	505.6	489.2	471.0	442.8	414.8	399.9	120°	208.7
517.2	510.7	489.2	479.3	464.3	454.4	434.7	411.4	371.8	332.2	313.9	122.5°	233.2
487.4	477.6	452.8	437.9	418.1	408.2	386.7	353.6	305.8	264.4	239.6	125°	259.8
452.8	439.6	413.2	395.0	375.1	356.9	335.4	300.7	246.2	208.2	183.4	127.5°	283.4
414.8	398.2	370.2	345.3	323.9	307.4	285.9	251.1	196.6	166.9	153.6	130°	307.9
375.1	348.7	323.9	302.4	277.6	261.1	239.6	208.2	166.9	150.4	145.5	132.5°	332.5
333.8	304.0	279.3	257.8	234.7	219.7	201.6	176.8	152.0	147.1	147.1	135°	356.0
292.5	262.8	239.6	218.1	198.2	188.4	171.9	155.3	143.7	145.5	147.1	137.5°	377.5
254.5	224.7	203.3	186.7	168.6	161.9	148.7	138.8	137.2	142.1	143.7	140°	399.0
221.5	195.0	175.1	161.9	147.1	143.7	132.2	127.3	132.2	138.8	137.2	142.5°	421.5
193.3	171.9	152.0	143.7	130.5	128.9	120.6	117.3	124.0	132.2	132.2	145°	442.9
171.9	152.0	137.2	130.5	120.6	119.0	112.3	109.0	114.1	125.6	128.9	147.5°	462.4
153.6	142.1	127.3	120.6	114.1	110.7	107.4	104.1	105.8	120.6	122.2	150°	479.8
142.1	133.8	120.6	117.3	109.0	107.4	102.5	99.1	100.8	112.3	117.3	152.5°	497.2
133.8	127.3	115.7	114.1	105.8	104.1	99.1	95.9	97.5	107.4	112.3	155°	514.5
127.3	120.6	110.7	107.4	102.5	100.8	97.5	94.2	94.2	104.1	109.0	157.5°	528.9
124.0	117.3	107.4	104.1	99.1	97.5	94.2	90.8	92.6	100.8	104.1	160°	542.2
122.2	114.1	105.8	100.8	97.5	94.2	90.8	87.6	89.2	97.5	100.8	162.5°	552.4
122.2	112.3	105.8	100.8	95.9	90.8	89.2	84.3	87.6	94.2	99.1	165°	562.6
122.2	112.3	105.8	100.8	97.5	92.6	89.2	85.9	87.6	94.2	99.1	167.5°	570.8
119.0	110.7	107.4	102.5	100.8	95.9	94.2	90.8	90.8	99.1	107.4	170°	576.9
114.1	109.0	107.4	104.1	104.1	100.8	100.8	97.5	97.5	107.4	115.7	172.5°	580.0
107.4	104.1	105.8	104.1	104.1	104.1	102.5	102.5	102.5	110.7	120.6	175°	583.1
100.8	99.1	100.8	100.8	102.5	100.8	102.5	100.8	100.8	109.0	119.0	177.5°	587.2
90.8	90.8	92.6	90.8	92.6	92.6	94.2	94.2	94.2	99.1	109.0	180°	589.2
79.3	77.6	79.3	77.6	81.0	77.6	81.0	82.7	81.0	82.7	87.6		
71.1	69.4	71.1	69.4	72.7	69.4	71.1	71.1	69.4	56.2	47.9		
64.4	62.8	64.4	62.8	66.1	62.8	66.1	64.4	61.2	41.3	39.7		
51.2	46.2	51.2	46.2	49.6	44.6	47.9	41.3	31.4	29.8	29.8		
38.1	33.0	36.3	31.4	29.8	23.1	24.8	23.1	21.5	23.1	23.1		
23.1	16.6	19.8	14.8	18.2	13.2	16.6	14.8	13.2	13.2	13.2		
11.6	8.3	11.6	6.6	9.9	6.6	8.3	8.3	4.9	4.9	4.9		
1.6	0.0	3.3	0.0	3.3	0.0	1.6	1.6	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1	3.1	2.0		
30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5	14.3	10.2		
51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0	38.9	32.7		
72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5	62.4	57.3		
94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0	85.9	81.8		

'228310  
 ISS-AF-800-LED-E1-SL4-ULG

REPORT NUMBER: P228310  
 CATALOG NUMBER: ISS-AF-800

**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	108.4	105.4	0°	722.1	722.1
139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	132.0	128.9	2.5°	654.4	656.0
161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	154.5	152.4	5°	573.4	578.4
184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	178.0	175.9	7.5°	484.2	487.4
208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	202.5	200.5	10°	389.9	393.3
233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	228.1	226.1	12.5°	300.7	304.0
259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	253.7	252.7	15°	226.4	223.1
283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	278.2	276.2	17.5°	173.5	170.2
307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	300.7	299.7	20°	147.1	147.1
332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	325.3	324.3	22.5°	143.7	142.1
356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	348.8	346.8	25°	145.5	143.7
377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	372.4	371.3	27.5°	145.5	143.7
399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	394.9	393.8	30°	142.1	140.5
421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	416.3	417.4	32.5°	137.2	135.5
443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	437.8	437.8	35°	132.2	132.2
462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	458.3	457.3	37.5°	128.9	130.5
480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	475.7	474.6	40°	124.0	125.6
497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	493.1	494.1	42.5°	119.0	120.6
514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	512.5	513.5	45°	114.1	115.7
529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	527.8	528.9	47.5°	109.0	109.0
542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	541.1	541.1	50°	102.5	102.5
552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	550.3	551.4	52.5°	100.8	100.8
563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	560.6	561.6	55°	100.8	100.8
571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	570.8	571.8	57.5°	104.1	104.1
577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	578.0	579.0	60°	114.1	115.7
580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	580.0	582.1	62.5°	133.8	135.5
583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	582.1	583.1	65°	153.6	157.0
588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	587.2	588.2	67.5°	155.3	160.3
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	150.4	155.3
										72.5°	104.1	104.1
										74°	46.2	44.6
										75°	39.7	38.1
										77.5°	29.8	29.8
										80°	21.5	19.8
										82.5°	11.6	11.6
										85°	3.3	3.3
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.2	8.2
										102.5°	28.6	28.6
										105°	55.2	55.2
										107.5°	78.8	79.8



REPORT NUMBER: P228310

CATALOG NUMBER: ISS-AF-800-LED-E1-S

**CANDELA DISTRIBUTION (continued):**

	175°	180°
110°	104.3	103.3
112.5°	126.8	126.8
115°	150.4	149.4
117.5°	173.9	172.9
120°	199.5	197.4
122.5°	225.0	224.0
125°	251.6	249.6
127.5°	275.2	273.1
130°	298.7	296.7
132.5°	321.2	320.2
135°	344.7	343.7
137.5°	368.3	367.2
140°	391.8	390.8
142.5°	415.3	413.3
145°	435.8	434.8
147.5°	454.2	454.2
150°	472.6	471.6
152.5°	491.0	490.0
155°	511.5	510.5
157.5°	526.8	524.8
160°	539.1	537.0
162.5°	548.3	547.3
165°	559.6	558.5
167.5°	568.8	567.7
170°	575.9	574.9
172.5°	579.0	578.0
175°	582.1	580.0
177.5°	586.2	585.1
180°	589.2	589.2

(END OF REPORT)

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

Scaled Data Report

