

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: P227660

Luminaire Tested: **ISS-AF-800-LED-E1-T3-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-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-T3-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, 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: 6460.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U5 - G1

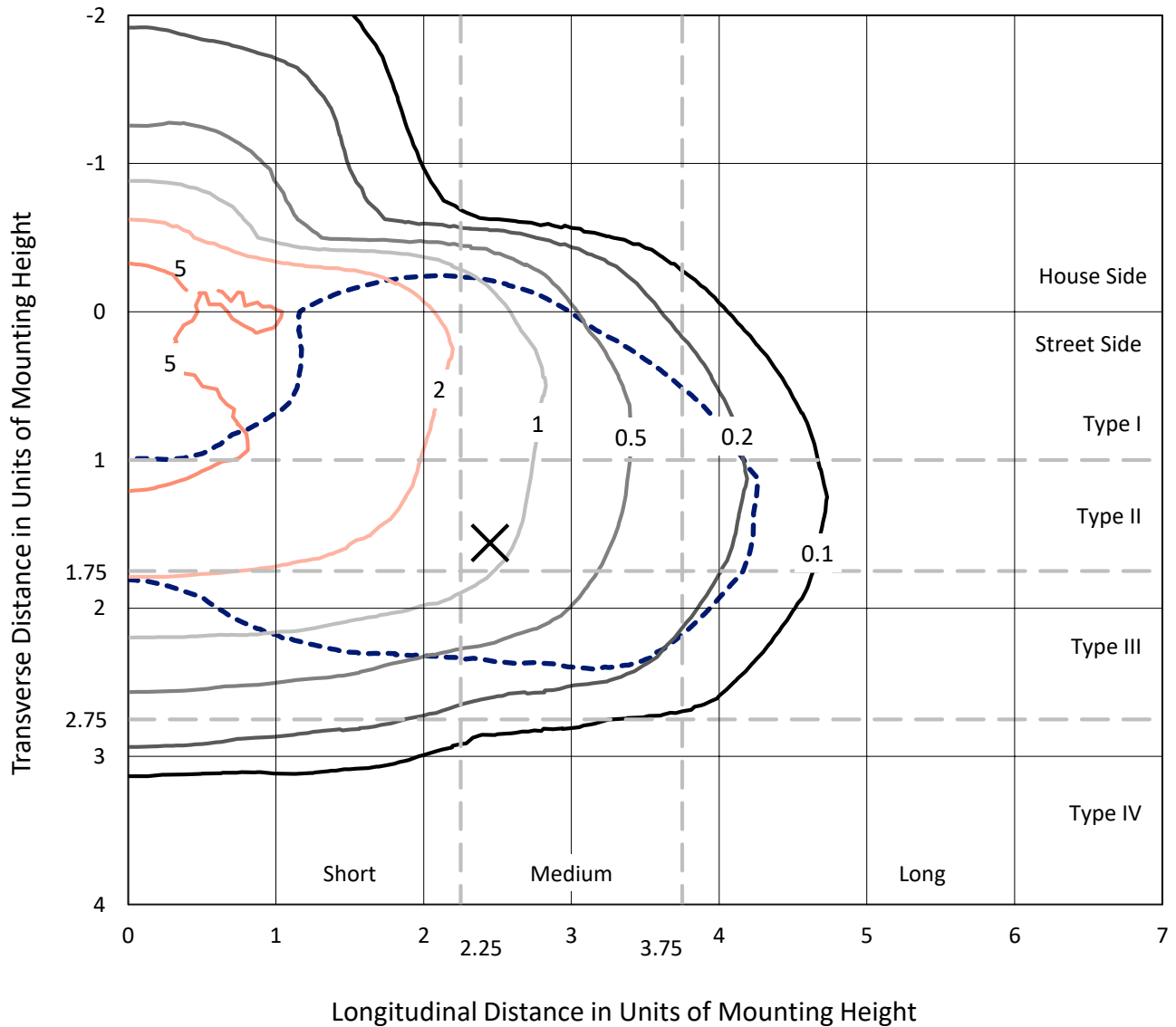
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227660
 CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

Iso-Footcandle Lines of Horizontal Illumination

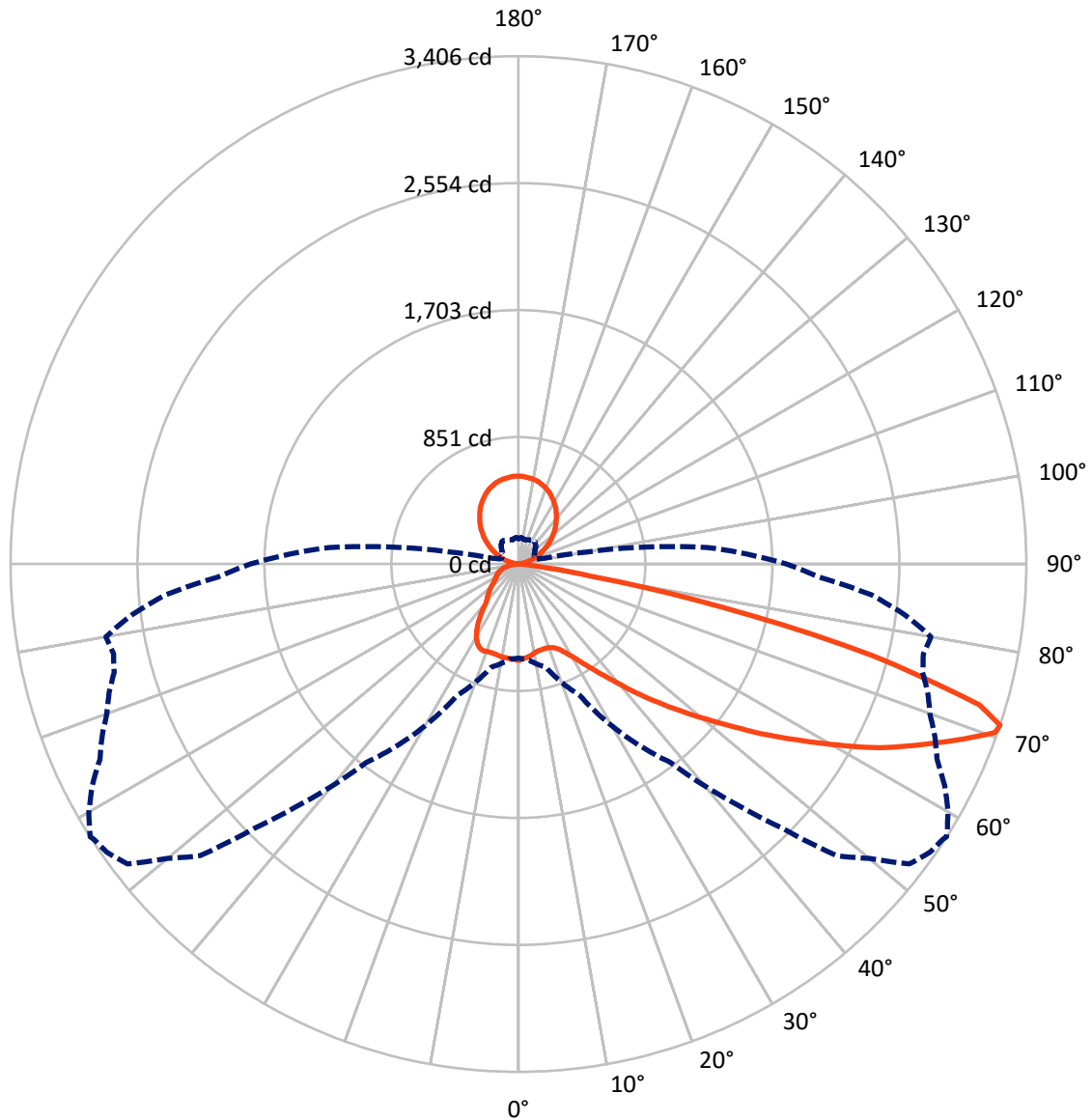
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P227660
CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P227660

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

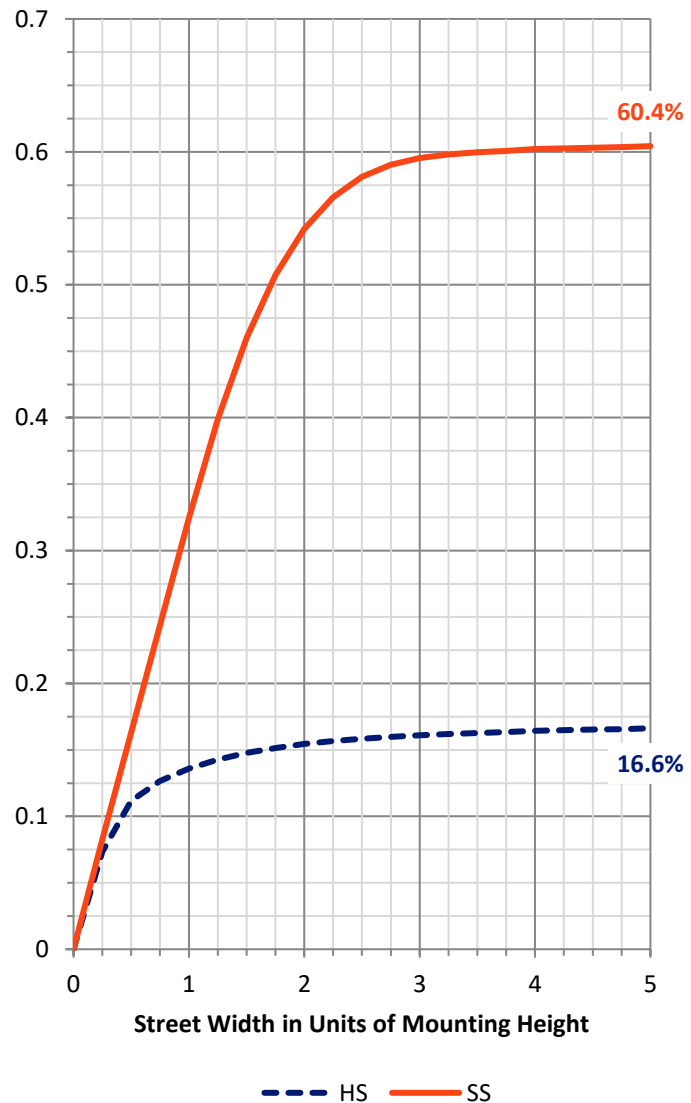
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.8	729.4	1818.2
	% Fixture	16.9	11.3	28.1
Street Side	Lumens	3912.4	729.4	4641.9
	% Fixture	60.6	11.3	71.9
Total	Lumens	5001.2	1458.9	6460.1
	% Fixture	77.4	22.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	0.9
10°-20°	175.2	2.7
20°-30°	290.9	4.5
30°-40°	463.0	7.2
40°-50°	752.2	11.6
50°-60°	1127.8	17.5
60°-70°	1345.5	20.8
70°-80°	726.7	11.2
80°-90°	59.1	0.9
90°-100°	4.8	0.1
100°-110°	70.6	1.1
110°-120°	156.6	2.4
120°-130°	229.0	3.5
130°-140°	271.7	4.2
140°-150°	275.5	4.3
150°-160°	236.4	3.7
160°-170°	158.7	2.5
170°-180°	55.6	0.9
0°-90°	5001.2	77.4
0°-180°	6460.1	100.0



REPORT NUMBER: P227660

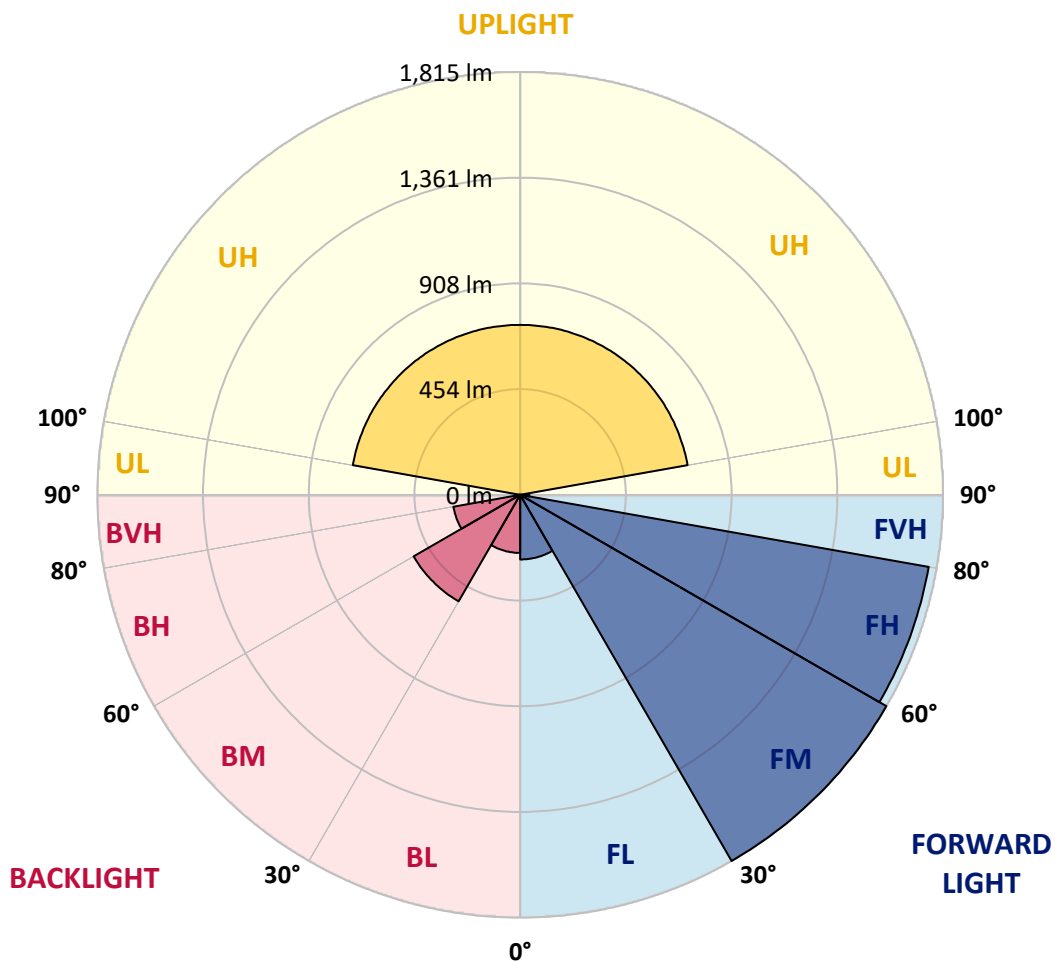
CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	277.5	4.3			
FM	(30°-60°)	1815.1	28.1			
FH	(60°-80°)	1780.9	27.6			G1/1800
FVH	(80°-90°)	39.0	0.6			G1/100
BL	(0°-30°)	249.4	3.9	B1/500		
BM	(30°-60°)	528.0	8.2	B1/1000		
BH	(60°-80°)	291.2	4.5	B1/500		G1/500
BVH	(80°-90°)	20.2	0.3			G1/100
UL	(90°-100°)	4.8	0.1		U1/10	
UH	(100°-180°)	729.4	11.3		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





REPORT NUMBER: P227660

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	646.1	644.5	642.8	642.8	642.8	641.1	636.2	637.8	642.8	639.4	644.5
5°	644.5	641.1	639.4	639.4	639.4	634.5	632.9	631.2	641.1	632.9	639.4
7.5°	626.3	626.3	623.0	626.3	629.5	624.6	621.3	623.0	631.2	623.0	631.2
10°	613.1	609.7	608.0	608.0	611.4	604.8	601.5	604.8	614.7	604.8	616.3
12.5°	608.0	609.7	604.8	604.8	603.1	594.8	594.8	594.8	603.1	594.8	604.8
15°	616.3	614.7	609.7	606.4	601.5	594.8	593.2	594.8	601.5	591.6	603.1
17.5°	627.9	627.9	619.6	611.4	606.4	599.9	599.9	596.5	601.5	594.8	603.1
20°	657.7	652.6	641.1	627.9	614.7	611.4	604.8	604.8	608.0	601.5	606.4
22.5°	708.9	703.9	684.0	659.3	637.8	629.5	626.3	624.6	621.3	618.0	618.0
25°	776.6	768.3	745.2	715.5	679.1	672.5	665.9	660.9	649.4	649.4	641.1
27.5°	849.4	841.1	816.3	783.3	738.6	728.8	720.5	713.8	694.0	694.0	679.1
30°	931.9	922.0	892.3	855.9	804.8	801.4	789.8	779.9	753.5	751.9	732.0
32.5°	1027.8	1014.6	984.8	936.9	882.4	884.0	865.8	859.3	824.5	826.2	799.7
35°	1136.8	1122.0	1092.2	1029.4	973.2	978.2	961.7	950.1	907.2	907.2	879.0
37.5°	1252.5	1252.5	1214.5	1141.8	1074.0	1085.7	1065.8	1054.3	1011.3	1017.8	973.2
40°	1381.4	1389.7	1348.4	1265.7	1196.3	1201.3	1186.4	1173.2	1122.0	1133.5	1085.7
42.5°	1516.9	1531.8	1495.5	1409.5	1331.8	1348.4	1323.6	1310.3	1255.8	1280.6	1224.4
45°	1713.5	1716.8	1649.1	1566.4	1502.0	1516.9	1482.2	1477.2	1409.5	1435.9	1379.8
47.5°	1837.4	1829.1	1779.6	1730.0	1692.1	1721.7	1690.4	1682.1	1604.5	1622.6	1543.3
50°	1921.7	1926.6	1888.7	1883.7	1890.3	1946.5	1941.6	1925.0	1832.5	1819.3	1720.1
52.5°	1997.7	1976.2	1969.6	2015.9	2086.9	2153.0	2179.5	2158.0	2057.3	2020.8	1925.0
55°	1984.5	1953.1	1987.8	2100.2	2240.7	2343.1	2346.3	2331.5	2240.7	2225.7	2121.7
57.5°	1895.3	1901.9	1973.0	2133.3	2371.2	2476.9	2495.1	2476.9	2402.6	2415.8	2329.9
60°	1771.3	1784.5	1897.0	2103.5	2475.2	2566.2	2574.4	2595.8	2546.3	2581.0	2521.6
62.5°	1586.3	1604.5	1748.2	2029.1	2402.6	2538.0	2614.0	2663.7	2653.7	2733.0	2701.6
65°	1457.4	1457.4	1597.8	1943.2	2331.5	2510.0	2624.0	2716.5	2729.7	2855.3	2843.7
67.5°	1217.8	1226.1	1346.7	1703.6	2245.6	2447.2	2619.1	2776.0	2855.3	3053.6	3063.5
70°	842.7	849.4	928.6	1216.2	1814.3	1986.2	2238.9	2495.1	2733.0	3032.1	3187.4
71°	631.2	639.4	717.1	970.0	1536.7	1678.9	1941.6	2207.5	2506.6	2895.0	3070.1
72.5°	309.0	313.9	389.9	623.0	1069.1	1250.9	1402.9	1657.4	1974.6	2419.1	2666.9
75°	143.7	145.4	161.9	224.7	408.2	485.8	553.5	717.1	913.8	1303.8	1604.5
77.5°	105.8	105.8	115.7	147.1	211.5	214.8	211.5	216.5	261.1	373.5	561.8
80°	77.6	77.6	84.3	99.1	140.5	140.5	135.5	137.2	132.2	137.2	155.3
82.5°	51.2	51.2	54.5	59.5	85.9	85.9	82.7	82.7	79.3	77.6	84.3
85°	29.8	31.4	33.0	28.1	36.3	34.7	31.4	34.7	33.0	29.8	36.3
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	0.0	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°	2.0	2.0	2.0	3.1	4.1	5.3	6.6	8.0	9.2	10.2	11.3
100°	8.2	8.2	10.2	14.3	22.5	24.6	26.6	28.6	30.7	31.2	31.7
102.5°	28.6	28.6	32.7	38.9	46.0	47.3	48.6	49.9	51.1	51.4	51.7
105°	55.2	55.2	57.3	62.4	67.5	68.5	69.6	70.6	71.6	71.8	72.1
107.5°	79.8	78.8	81.8	85.9	90.0	90.8	91.6	92.3	93.1	93.6	94.1



REPORT NUMBER: P227660

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	103.3	104.3	105.4	108.4	112.5	113.0	113.5	114.1	114.6	115.1	115.6
112.5°	126.8	126.8	128.9	132.0	135.0	135.5	136.1	136.6	137.1	137.6	138.1
115°	149.4	150.4	152.4	154.5	157.5	158.0	158.6	159.1	159.6	160.1	160.6
117.5°	172.9	173.9	175.9	178.0	181.1	181.6	182.1	182.6	183.1	183.3	183.6
120°	197.4	199.5	200.5	202.5	205.6	205.8	206.1	206.4	206.6	207.1	207.7
122.5°	224.0	225.0	226.1	228.1	231.2	231.4	231.7	232.0	232.2	232.4	232.7
125°	249.6	251.6	252.7	253.7	256.8	257.0	257.3	257.6	257.8	258.0	258.3
127.5°	273.1	275.2	276.2	278.2	280.3	280.8	281.3	281.8	282.3	282.8	283.4
130°	296.7	298.7	299.7	300.7	304.8	305.0	305.4	305.7	305.9	306.4	306.9
132.5°	320.2	321.2	324.3	325.3	328.4	328.6	328.9	329.2	329.4	330.2	330.9
135°	343.7	344.7	346.8	348.8	352.9	352.9	352.9	352.9	352.9	353.7	354.5
137.5°	367.2	368.3	371.3	372.4	375.4	375.4	375.4	375.4	375.4	375.9	376.4
140°	390.8	391.8	393.8	394.9	396.9	397.1	397.4	397.7	397.9	398.1	398.4
142.5°	413.3	415.3	417.4	416.3	419.4	419.4	419.4	419.4	419.4	419.9	420.4
145°	434.8	435.8	437.8	437.8	440.9	441.1	441.4	441.7	441.9	442.4	442.9
147.5°	454.2	454.2	457.3	458.3	462.4	462.6	462.9	463.2	463.4	463.6	463.9
150°	471.6	472.6	474.6	475.7	479.8	480.0	480.3	480.6	480.8	481.0	481.3
152.5°	490.0	491.0	494.1	493.1	496.1	496.3	496.6	496.9	497.2	497.4	497.7
155°	510.5	511.5	513.5	512.5	514.5	514.5	514.5	514.5	514.5	514.7	515.1
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	553.6	553.9
165°	558.5	559.6	561.6	560.6	564.7	564.7	564.7	564.7	564.7	564.9	565.2
167.5°	567.7	568.8	571.8	570.8	573.9	573.7	573.4	573.1	572.9	572.9	572.9
170°	574.9	575.9	579.0	578.0	580.0	579.8	579.5	579.2	579.0	578.8	578.5
172.5°	578.0	579.0	582.1	580.0	582.1	581.9	581.5	581.2	581.0	581.2	581.5
175°	580.0	582.1	583.1	582.1	585.1	585.1	585.1	585.1	585.1	585.3	585.6
177.5°	585.1	586.2	588.2	587.2	591.3	591.1	590.8	590.4	590.2	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: P227660

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	637.8	642.8	642.8	636.2	641.1	636.2	639.4	634.5	639.4	631.2	641.1
5°	632.9	637.8	637.8	627.9	637.8	627.9	636.2	624.6	636.2	623.0	636.2
7.5°	619.6	631.2	631.2	618.0	629.5	619.6	629.5	618.0	627.9	613.1	629.5
10°	604.8	616.3	618.0	604.8	618.0	606.4	621.3	606.4	621.3	604.8	623.0
12.5°	594.8	608.0	611.4	596.5	613.1	598.1	616.3	599.9	616.3	598.1	619.6
15°	593.2	604.8	608.0	594.8	609.7	593.2	614.7	594.8	616.3	596.5	621.3
17.5°	594.8	604.8	608.0	593.2	608.0	594.8	613.1	596.5	616.3	598.1	621.3
20°	599.9	606.4	606.4	598.1	609.7	598.1	613.1	596.5	618.0	601.5	623.0
22.5°	614.7	616.3	616.3	609.7	616.3	608.0	619.6	608.0	623.0	609.7	629.5
25°	639.4	637.8	634.5	632.9	634.5	629.5	636.2	627.9	642.8	631.2	651.0
27.5°	682.4	675.9	672.5	672.5	670.9	672.5	672.5	669.2	675.9	672.5	685.8
30°	735.3	723.7	718.8	723.7	717.1	723.7	722.1	720.5	727.0	723.7	735.3
32.5°	804.8	784.9	781.5	791.5	778.3	789.8	779.9	784.9	789.8	793.1	799.7
35°	885.7	862.6	859.3	869.2	854.3	870.8	859.3	865.8	869.2	877.4	882.4
37.5°	981.5	953.4	948.5	961.7	941.8	960.0	943.5	963.3	958.4	970.0	974.9
40°	1097.2	1064.2	1052.6	1070.7	1047.6	1062.4	1046.0	1067.4	1062.4	1085.7	1090.6
42.5°	1239.3	1191.3	1179.8	1198.0	1163.3	1168.2	1155.0	1179.8	1176.5	1207.9	1212.8
45°	1386.3	1328.5	1312.0	1330.1	1290.6	1300.4	1280.6	1307.0	1305.4	1330.1	1350.0
47.5°	1550.0	1478.9	1457.4	1477.2	1429.3	1440.8	1421.1	1449.1	1450.7	1478.9	1498.7
50°	1720.1	1645.7	1617.7	1635.9	1591.2	1599.5	1579.6	1614.4	1612.7	1650.7	1665.6
52.5°	1905.1	1829.1	1807.7	1815.9	1763.1	1773.0	1756.5	1799.5	1789.6	1812.7	1842.4
55°	2110.0	2022.5	1997.7	2022.5	1959.8	1973.0	1951.5	1991.1	1974.6	2004.4	2012.6
57.5°	2320.0	2234.0	2214.2	2232.4	2172.8	2182.8	2154.7	2187.8	2174.5	2194.3	2207.5
60°	2543.1	2465.3	2445.6	2465.3	2407.5	2409.2	2361.3	2396.0	2376.1	2400.9	2396.0
62.5°	2756.1	2690.1	2685.1	2713.2	2640.5	2632.3	2574.4	2599.2	2571.1	2587.7	2567.8
65°	2937.9	2900.0	2906.5	2929.6	2865.2	2845.4	2779.3	2792.6	2751.2	2751.2	2726.5
67.5°	3175.9	3134.5	3134.5	3154.4	3073.5	3022.2	2931.4	2919.7	2852.0	2838.8	2781.0
70°	3374.2	3385.8	3372.5	3389.0	3293.2	3189.0	3068.4	3010.6	2921.4	2878.5	2810.7
71°	3303.1	3369.2	3392.3	3405.5	3326.2	3222.1	3096.6	3022.2	2936.3	2878.5	2805.7
72.5°	2980.9	3141.2	3232.0	3232.0	3241.9	3175.9	3055.2	2974.3	2876.7	2800.7	2733.0
75°	2088.6	2349.7	2467.1	2453.8	2539.7	2569.4	2579.4	2544.7	2490.2	2381.1	2333.1
77.5°	930.3	1226.1	1402.9	1404.5	1497.1	1578.0	1642.4	1710.2	1685.4	1632.5	1629.3
80°	211.5	383.4	490.7	495.7	580.0	654.4	699.0	766.7	775.0	699.0	656.0
82.5°	90.8	107.4	122.2	120.6	148.7	178.5	211.5	229.7	221.5	183.4	173.5
85°	38.1	49.6	52.9	49.6	61.2	67.7	79.3	81.0	94.2	84.3	89.2
87.5°	0.0	1.6	1.6	0.0	3.3	0.0	3.3	1.6	8.3	3.3	9.9
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°	12.3	13.3	12.1	11.8	10.2	8.7	7.2	6.6	6.1	5.6	5.1
100°	32.2	32.7	32.3	32.2	31.7	31.2	30.7	29.9	29.2	28.4	27.6
102.5°	52.0	52.2	52.0	52.0	51.7	51.4	51.1	50.6	50.1	49.6	49.1
105°	72.4	72.6	72.6	72.6	72.6	72.6	72.6	72.1	71.6	71.1	70.6
107.5°	94.6	95.1	94.9	94.9	94.6	94.3	94.1	93.9	93.6	93.3	93.1



REPORT NUMBER: P227660

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
110°	116.1	116.6	116.6	116.6	116.6	116.6	116.6	116.4	116.1	115.8	115.6
112.5°	138.6	139.1	139.1	139.1	139.1	139.1	139.1	138.9	138.6	138.3	138.1
115°	161.1	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6	161.6
117.5°	183.9	184.1	184.3	184.3	184.6	184.9	185.2	184.9	184.6	184.3	184.1
120°	208.2	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7	208.7
122.5°	233.0	233.2	233.2	233.2	233.2	233.2	233.2	233.4	233.7	234.1	234.3
125°	258.6	258.8	259.0	259.0	259.3	259.6	259.8	259.8	259.8	259.8	259.8
127.5°	283.9	284.4	284.2	284.2	283.9	283.6	283.4	283.6	283.9	284.2	284.4
130°	307.4	307.9	307.9	307.9	307.9	307.9	307.9	308.1	308.4	308.7	308.9
132.5°	331.6	332.5	332.5	332.5	332.5	332.5	332.5	332.7	333.0	333.3	333.5
135°	355.2	356.0	356.0	356.0	356.0	356.0	356.0	356.2	356.5	356.8	357.0
137.5°	377.0	377.5	377.5	377.5	377.5	377.5	377.5	377.7	378.0	378.3	378.5
140°	398.7	399.0	399.0	399.0	399.0	399.0	399.0	399.5	400.0	400.5	401.0
142.5°	420.9	421.5	421.5	421.5	421.5	421.5	421.5	421.7	422.0	422.3	422.5
145°	443.4	444.0	443.8	443.8	443.4	443.1	442.9	443.1	443.4	443.8	444.0
147.5°	464.2	464.4	464.0	463.9	463.4	462.9	462.4	462.6	462.9	463.2	463.4
150°	481.6	481.8	481.4	481.3	480.8	480.3	479.8	479.8	479.8	479.8	479.8
152.5°	498.0	498.2	498.0	498.0	497.7	497.4	497.2	497.2	497.2	497.2	497.2
155°	515.4	515.6	515.4	515.4	515.1	514.7	514.5	514.7	515.1	515.4	515.6
157.5°	530.9	530.9	530.5	530.4	529.9	529.4	528.9	529.1	529.4	529.7	529.9
160°	544.2	544.2	543.8	543.7	543.2	542.7	542.2	542.2	542.2	542.2	542.2
162.5°	554.2	554.4	554.0	553.9	553.4	552.9	552.4	551.9	551.4	550.9	550.3
165°	565.5	565.7	565.1	564.9	564.2	563.4	562.6	562.1	561.6	561.1	560.6
167.5°	572.9	572.9	572.4	572.3	571.8	571.3	570.8	571.0	571.3	571.6	571.8
170°	578.2	578.0	577.8	577.8	577.5	577.1	576.9	577.5	578.0	578.5	579.0
172.5°	581.9	582.1	581.6	581.5	581.0	580.5	580.0	580.2	580.5	580.8	581.0
175°	585.9	586.2	585.5	585.3	584.6	583.9	583.1	582.6	582.1	581.5	581.0
177.5°	590.2	590.2	589.6	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: P227660

CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1
2.5°	634.5	642.8	634.5	642.8	637.8	642.8	641.1	642.8	634.5	642.8	632.9
5°	623.0	636.2	624.6	634.5	624.6	636.2	636.2	636.2	624.6	637.8	626.3
7.5°	613.1	627.9	613.1	627.9	618.0	629.5	629.5	634.5	621.3	636.2	619.6
10°	603.1	621.3	603.1	624.6	608.0	626.3	627.9	631.2	613.1	632.9	616.3
12.5°	598.1	621.3	599.9	621.3	601.5	626.3	627.9	631.2	611.4	636.2	614.7
15°	598.1	623.0	599.9	623.0	601.5	626.3	629.5	632.9	611.4	637.8	614.7
17.5°	598.1	623.0	603.1	624.6	604.8	627.9	631.2	634.5	614.7	637.8	618.0
20°	603.1	626.3	606.4	629.5	609.7	632.9	634.5	639.4	618.0	639.4	621.3
22.5°	614.7	634.5	618.0	639.4	624.6	642.8	644.5	649.4	632.9	651.0	636.2
25°	634.5	656.0	642.8	659.3	651.0	665.9	669.2	669.2	662.6	674.1	669.2
27.5°	675.9	692.3	682.4	697.3	692.3	703.9	703.9	705.5	710.5	713.8	718.8
30°	728.8	740.3	736.9	745.2	746.9	753.5	753.5	763.4	783.3	763.4	761.8
32.5°	799.7	806.4	808.0	811.3	818.0	822.9	829.5	841.1	857.5	811.3	796.5
35°	887.3	888.9	894.0	898.9	910.4	913.8	935.3	927.0	927.0	854.3	822.9
37.5°	983.2	983.2	996.4	996.4	1024.5	1026.1	1047.6	1004.6	979.9	885.7	839.4
40°	1103.8	1102.1	1117.0	1120.3	1158.3	1159.9	1156.7	1062.4	1009.7	894.0	831.1
42.5°	1231.0	1235.9	1255.8	1262.4	1290.6	1300.4	1259.2	1102.1	1022.8	888.9	803.0
45°	1369.8	1379.8	1404.5	1422.7	1452.5	1440.8	1341.7	1120.3	1007.9	859.3	748.5
47.5°	1521.8	1531.8	1551.6	1586.3	1599.5	1586.3	1409.5	1126.9	984.8	812.9	669.2
50°	1675.5	1692.1	1720.1	1769.7	1776.4	1743.2	1492.1	1151.7	966.7	765.1	578.4
52.5°	1849.0	1865.6	1898.6	1981.3	1964.7	1897.0	1589.6	1198.0	971.6	735.3	500.6
55°	2032.4	2055.5	2120.0	2201.0	2164.7	2058.9	1697.0	1265.7	991.4	703.9	414.7
57.5°	2225.7	2250.5	2334.8	2430.6	2359.6	2217.5	1806.0	1318.6	1001.4	639.4	320.6
60°	2417.4	2452.1	2561.2	2640.5	2529.8	2353.0	1903.5	1353.3	974.9	517.2	247.9
62.5°	2592.6	2648.7	2771.1	2814.0	2637.2	2438.9	1956.4	1328.5	867.5	356.9	200.0
65°	2716.5	2789.2	2868.6	2863.5	2617.3	2410.8	1916.8	1214.5	646.1	236.3	170.2
67.5°	2769.4	2837.2	2855.3	2771.1	2475.2	2286.9	1774.6	978.2	371.7	176.8	148.7
70°	2789.2	2847.1	2744.6	2541.3	2197.7	1982.9	1450.7	623.0	203.3	143.7	128.9
71°	2781.0	2809.0	2614.0	2376.1	2020.8	1796.1	1272.3	474.2	173.5	133.8	122.2
72.5°	2668.6	2629.0	2328.2	2063.8	1713.5	1485.5	989.8	299.1	142.1	120.6	114.1
75°	2181.1	2002.7	1713.5	1464.0	1166.6	933.5	537.0	153.6	114.1	104.1	99.1
77.5°	1426.0	1270.7	1032.8	839.4	637.8	484.2	219.7	105.8	90.8	87.6	85.9
80°	508.9	408.2	309.0	271.0	204.9	168.6	107.4	81.0	71.1	72.7	71.1
82.5°	143.7	132.2	114.1	105.8	92.6	90.8	69.4	61.2	56.2	59.5	57.8
85°	71.1	61.2	44.6	43.0	33.0	38.1	34.7	41.3	36.3	38.1	34.7
87.5°	4.9	6.6	1.6	4.9	0.0	4.9	6.6	8.3	1.6	6.6	4.9
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	4.3	4.1	4.1	4.1	4.1	4.6	4.9	5.1	5.6
100°	27.4	27.1	26.8	26.6	26.1	25.6	26.6	27.1	27.4	27.6	28.4
102.5°	49.3	49.6	49.9	50.1	49.6	49.1	50.1	49.6	49.3	49.1	49.6
105°	71.1	71.6	72.1	72.6	71.6	70.6	72.6	71.6	71.1	70.6	71.1
107.5°	93.3	93.6	93.9	94.1	93.6	93.1	94.1	93.6	93.3	93.1	93.3



REPORT NUMBER: P227660
 CATALOG NUMBER: ISS-AF-800-LED-E1-T3-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°	
110°	115.8	116.1	116.4	116.6	116.1	115.6	116.6	116.1	115.8	115.6	115.8	0°
112.5°	138.6	139.1	139.6	140.1	139.1	138.1	140.1	139.1	138.6	138.1	138.3	2.5°
115°	162.1	162.6	163.2	163.7	163.2	162.6	163.7	162.6	162.1	161.6	161.6	5°
117.5°	184.6	185.2	185.7	186.2	185.2	184.1	186.2	185.2	184.6	184.1	184.3	7.5°
120°	209.2	209.7	210.2	210.7	209.7	208.7	210.7	209.7	209.2	208.7	208.7	10°
122.5°	235.3	236.3	237.3	238.3	237.8	237.3	238.3	236.3	235.3	234.3	234.1	12.5°
125°	260.6	261.4	262.1	262.9	262.4	261.9	262.9	261.4	260.6	259.8	259.8	15°
127.5°	285.2	285.9	286.6	287.4	285.9	284.4	287.4	285.9	285.2	284.4	284.2	17.5°
130°	309.7	310.5	311.2	312.0	311.0	310.0	312.0	310.5	309.7	308.9	308.7	20°
132.5°	334.3	335.0	335.7	336.6	335.5	334.5	336.6	335.0	334.3	333.5	333.3	22.5°
135°	357.5	358.0	358.5	359.1	358.5	358.0	359.1	358.0	357.5	357.0	356.8	25°
137.5°	379.5	380.5	381.6	382.6	381.6	380.5	382.6	380.5	379.5	378.5	378.3	27.5°
140°	402.0	403.0	404.1	405.1	404.1	403.0	405.1	403.0	402.0	401.0	400.5	30°
142.5°	423.3	424.0	424.7	425.5	425.0	424.5	425.5	424.0	423.3	422.5	422.3	32.5°
145°	444.8	445.5	446.2	447.0	446.0	445.0	447.0	445.5	444.8	444.0	443.8	35°
147.5°	464.2	464.9	465.6	466.5	464.9	463.4	466.5	464.9	464.2	463.4	463.2	37.5°
150°	480.8	481.8	482.8	483.9	482.3	480.8	483.9	481.8	480.8	479.8	479.8	40°
152.5°	498.0	498.7	499.4	500.2	498.7	497.2	500.2	498.7	498.0	497.2	497.2	42.5°
155°	516.4	517.1	517.8	518.6	517.6	516.6	518.6	517.1	516.4	515.6	515.4	45°
157.5°	531.1	532.4	533.8	535.0	533.5	531.9	535.0	532.4	531.1	529.9	529.7	47.5°
160°	543.0	543.7	544.4	545.2	544.2	543.2	545.2	543.7	543.0	542.2	542.2	50°
162.5°	550.9	551.4	551.9	552.4	550.9	549.3	552.4	551.4	550.9	550.3	550.9	52.5°
165°	561.1	561.6	562.1	562.6	561.6	560.6	562.6	561.6	561.1	560.6	561.1	55°
167.5°	572.9	573.9	574.9	575.9	574.9	573.9	575.9	573.9	572.9	571.8	571.6	57.5°
170°	580.2	581.5	582.9	584.1	583.1	582.1	584.1	581.5	580.2	579.0	578.5	60°
172.5°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	580.8	62.5°
175°	581.9	582.6	583.3	584.1	582.6	581.0	584.1	582.6	581.9	581.0	581.5	65°
177.5°	588.0	588.7	589.4	590.2	588.7	587.2	590.2	588.7	588.0	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°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P227660
 NUMBER: ISS-AF-800-LED-E1-T3-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	110°	110°
646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	646.1	110°	116.1
644.5	637.8	646.1	637.8	646.1	641.1	646.1	641.1	646.1	649.4	649.4	112.5°	138.6
641.1	629.5	644.5	636.2	646.1	637.8	644.5	639.4	647.7	651.0	654.4	115°	161.6
639.4	627.9	642.8	631.2	646.1	634.5	644.5	637.8	647.7	651.0	657.7	117.5°	184.6
637.8	623.0	642.8	626.3	644.5	632.9	644.5	634.5	646.1	649.4	651.0	120°	208.7
637.8	621.3	642.8	624.6	644.5	627.9	642.8	627.9	644.5	642.8	637.8	122.5°	233.7
639.4	618.0	642.8	621.3	642.8	623.0	641.1	621.3	637.8	632.9	629.5	125°	259.8
639.4	618.0	641.1	619.6	639.4	621.3	636.2	618.0	632.9	631.2	626.3	127.5°	283.9
642.8	621.3	641.1	626.3	641.1	623.0	634.5	618.0	629.5	619.6	599.9	130°	308.4
652.6	637.8	652.6	637.8	644.5	627.9	632.9	613.1	611.4	594.8	563.4	132.5°	333.0
675.9	669.2	665.9	647.7	642.8	621.3	614.7	591.6	583.3	558.5	515.6	135°	356.5
705.5	690.7	670.9	649.4	627.9	601.5	583.3	565.1	547.0	515.6	461.0	137.5°	378.0
725.4	703.9	662.6	632.9	593.2	571.7	540.3	520.5	494.1	454.4	401.5	140°	400.0
738.6	705.5	642.8	608.0	555.2	527.1	485.8	464.3	426.3	388.3	350.3	142.5°	422.0
741.9	699.0	616.3	578.4	508.9	477.5	423.0	399.9	363.6	337.1	322.2	145°	443.4
728.8	675.9	575.0	525.5	449.5	413.1	361.9	345.3	323.9	313.9	307.3	147.5°	462.9
702.3	631.2	510.6	452.8	375.1	347.0	320.6	320.6	309.0	304.0	292.5	150°	479.8
654.4	565.1	428.0	371.7	319.0	313.9	299.1	305.7	297.5	294.1	277.6	152.5°	497.2
580.0	471.0	345.3	312.3	287.6	290.8	280.9	287.6	282.5	280.9	261.1	155°	515.1
484.2	375.1	290.8	279.3	262.7	267.7	259.4	267.7	262.7	264.3	249.5	157.5°	529.4
386.7	304.0	257.8	251.1	239.6	243.0	237.9	246.2	244.6	251.1	243.0	160°	542.2
309.0	259.4	229.7	224.7	218.1	219.7	218.1	226.4	228.0	241.2	241.2	162.5°	551.4
256.1	223.1	206.5	204.9	198.2	200.0	201.6	209.8	216.5	233.0	241.2	165°	561.6
219.7	200.0	188.3	186.7	183.4	185.1	188.3	198.2	204.9	226.4	244.6	167.5°	571.3
193.3	181.8	173.5	173.5	170.2	173.5	176.8	186.7	195.0	219.7	237.9	170°	578.0
173.5	165.2	160.3	161.9	160.3	163.6	166.8	176.8	186.7	209.8	228.0	172.5°	580.5
155.3	150.4	147.1	148.7	148.7	153.6	157.0	166.8	175.1	196.6	219.7	175°	582.1
140.5	137.2	135.5	137.2	138.8	143.7	148.7	155.3	161.9	181.8	208.2	177.5°	587.2
128.9	125.6	125.6	125.6	127.3	132.2	138.8	142.1	148.7	170.2	195.0	180°	589.2
122.2	120.6	120.6	120.6	122.2	127.3	133.8	137.2	143.7	165.2	188.3		
114.1	114.1	115.7	114.1	117.3	119.0	125.6	128.9	137.2	158.7	180.1		
100.8	100.8	102.4	102.4	105.8	105.8	110.7	114.1	123.9	142.1	161.9		
89.2	89.2	92.6	90.8	90.8	87.6	94.2	97.5	105.8	123.9	143.7		
76.0	74.4	77.6	72.7	71.1	67.7	72.7	77.6	90.8	102.4	105.8		
59.5	54.5	56.2	51.2	51.2	47.9	52.9	54.5	62.8	74.4	81.0		
36.3	29.8	33.0	28.1	31.4	28.1	29.8	31.4	38.1	46.2	44.6		
8.3	4.9	6.6	1.6	4.9	0.0	4.9	1.6	4.9	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		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.1	6.6	7.2	8.7	10.2	11.8	13.3	12.3	11.3	9.2	4.1		
29.2	29.9	30.7	31.2	31.7	32.2	32.7	32.2	31.7	30.7	22.5		
50.1	50.6	51.1	51.4	51.7	52.0	52.2	52.0	51.7	51.1	46.0		
71.6	72.1	72.6	72.6	72.6	72.6	72.6	72.4	72.1	71.6	67.5		
93.6	93.9	94.1	94.3	94.6	94.9	95.1	94.6	94.1	93.1	90.0		

'227660
 ISS-AF-800-LED-E1-T3-ULG

REPORT NUMBER: P227660
 CATALOG NUMBER: ISS-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°		155°	165°
116.4	116.6	116.6	116.6	116.6	116.6	116.1	115.6	114.6	112.5	0°	646.1	646.1
138.9	139.1	139.1	139.1	139.1	139.1	138.6	138.1	137.1	135.0	2.5°	652.6	651.0
161.6	161.6	161.6	161.6	161.6	161.6	161.1	160.6	159.6	157.5	5°	660.9	660.9
184.9	185.2	184.9	184.6	184.3	184.1	183.9	183.6	183.1	181.1	7.5°	662.6	665.9
208.7	208.7	208.7	208.7	208.7	208.7	208.2	207.7	206.6	205.6	10°	651.0	647.7
233.4	233.2	233.2	233.2	233.2	233.2	233.0	232.7	232.2	231.2	12.5°	632.9	629.5
259.8	259.8	259.6	259.3	259.0	258.8	258.6	258.3	257.8	256.8	15°	631.2	629.5
283.6	283.4	283.6	283.9	284.2	284.4	283.9	283.4	282.3	280.3	17.5°	619.6	611.4
308.1	307.9	307.9	307.9	307.9	307.9	307.4	306.9	305.9	304.8	20°	586.6	571.7
332.7	332.5	332.5	332.5	332.5	332.5	331.6	330.9	329.4	328.4	22.5°	540.3	518.8
356.2	356.0	356.0	356.0	356.0	356.0	355.2	354.5	352.9	352.9	25°	484.2	454.4
377.7	377.5	377.5	377.5	377.5	377.5	377.0	376.4	375.4	375.4	27.5°	423.0	393.2
399.5	399.0	399.0	399.0	399.0	399.0	398.7	398.4	397.9	396.9	30°	375.1	352.0
421.7	421.5	421.5	421.5	421.5	421.5	420.9	420.4	419.4	419.4	32.5°	340.4	327.1
443.1	442.9	443.1	443.4	443.8	444.0	443.4	442.9	441.9	440.9	35°	312.3	304.0
462.6	462.4	462.9	463.4	463.9	464.4	464.2	463.9	463.4	462.4	37.5°	294.1	280.9
479.8	479.8	480.3	480.8	481.3	481.8	481.6	481.3	480.8	479.8	40°	276.0	259.4
497.2	497.2	497.4	497.7	498.0	498.2	498.0	497.7	497.2	496.1	42.5°	259.4	243.0
514.7	514.5	514.7	515.1	515.4	515.6	515.4	515.1	514.5	514.5	45°	243.0	231.3
529.1	528.9	529.4	529.9	530.4	530.9	530.9	530.9	530.9	530.9	47.5°	234.7	224.7
542.2	542.2	542.7	543.2	543.7	544.2	544.2	544.2	544.2	544.2	50°	231.3	221.5
551.9	552.4	552.9	553.4	553.9	554.4	554.2	553.9	553.4	553.4	52.5°	234.7	226.4
562.1	562.6	563.4	564.2	564.9	565.7	565.5	565.2	564.7	564.7	55°	241.2	236.3
571.0	570.8	571.3	571.8	572.3	572.9	572.9	572.9	572.9	573.9	57.5°	234.7	226.4
577.5	576.9	577.1	577.5	577.8	578.0	578.2	578.5	579.0	580.0	60°	219.7	206.5
580.2	580.0	580.5	581.0	581.5	582.1	581.9	581.5	581.0	582.1	62.5°	209.8	196.6
582.6	583.1	583.9	584.6	585.3	586.2	585.9	585.6	585.1	585.1	65°	201.6	191.7
587.2	587.2	588.0	588.7	589.4	590.2	590.2	590.2	590.2	591.3	67.5°	193.3	183.4
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	70°	183.4	173.5
										71°	178.5	166.8
										72.5°	170.2	157.0
										75°	153.6	140.5
										77.5°	127.3	112.3
										80°	97.5	87.6
										82.5°	72.7	64.4
										85°	38.1	29.8
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	3.1	2.0
										100°	14.3	10.2
										102.5°	38.9	32.7
										105°	62.4	57.3
										107.5°	85.9	81.8



REPORT NUMBER: P227660

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

0-LED-E1-T3-ULG

tinued):

175°	180°
646.1	646.1
652.6	651.0
662.6	664.3
669.2	667.6
651.0	647.7
632.9	632.9
631.2	631.2
608.0	606.4
568.5	563.4
512.2	507.3
442.8	436.2
381.7	381.7
340.4	340.4
319.0	320.6
299.1	300.7
269.3	269.3
244.6	244.6
233.0	231.3
223.1	221.5
216.5	214.8
209.8	209.8
204.9	204.9
204.9	201.6
206.5	201.6
203.3	200.0
203.3	201.6
206.5	203.3
206.5	200.0
188.3	176.8
178.5	168.6
160.3	153.6
137.2	135.5
107.4	105.8
87.6	82.7
62.8	54.5
24.8	24.8
0.0	0.0
0.0	0.0
0.0	0.0
1.0	1.0
2.0	2.0
8.2	8.2
28.6	28.6
55.2	55.2
78.8	79.8

CANDELA DISTRIBUTION (continued):

	155°	165°	175°
110°	108.4	105.4	104.3
112.5°	132.0	128.9	126.8
115°	154.5	152.4	150.4
117.5°	178.0	175.9	173.9
120°	202.5	200.5	199.5
122.5°	228.1	226.1	225.0
125°	253.7	252.7	251.6
127.5°	278.2	276.2	275.2
130°	300.7	299.7	298.7
132.5°	325.3	324.3	321.2
135°	348.8	346.8	344.7
137.5°	372.4	371.3	368.3
140°	394.9	393.8	391.8
142.5°	416.3	417.4	415.3
145°	437.8	437.8	435.8
147.5°	458.3	457.3	454.2
150°	475.7	474.6	472.6
152.5°	493.1	494.1	491.0
155°	512.5	513.5	511.5
157.5°	527.8	528.9	526.8
160°	541.1	541.1	539.1
162.5°	550.3	551.4	548.3
165°	560.6	561.6	559.6
167.5°	570.8	571.8	568.8
170°	578.0	579.0	575.9
172.5°	580.0	582.1	579.0
175°	582.1	583.1	582.1
177.5°	587.2	588.2	586.2
180°	589.2	589.2	589.2

Γ3-ULG

180°
<hr/>
103.3
126.8
149.4
172.9
197.4
224.0
249.6
273.1
296.7
320.2
343.7
367.2
390.8
413.3
434.8
454.2
471.6
490.0
510.5
524.8
537.0
547.3
558.5
567.7
574.9
578.0
580.0
585.1
589.2

(END OF REPORT)