

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: P228443

Luminaire Tested: **ISS-AF-800-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29764)-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-SLL-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCUED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, WITH
UPLIGHT GLOW
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5506.2 lumens
Efficiency: N/A
Efficacy: 91.5 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 - 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

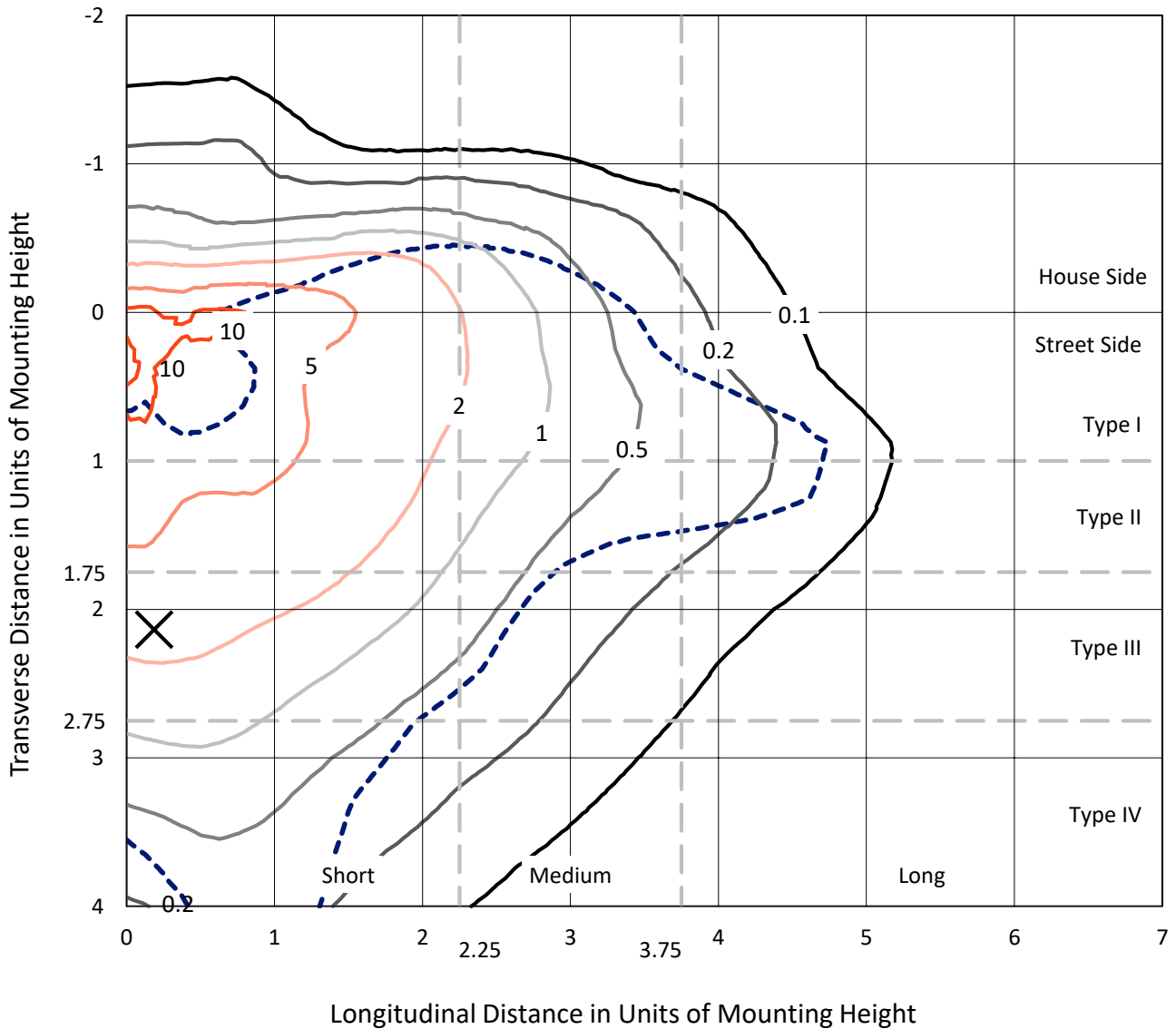


REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

Iso-Footcandle Lines of Horizontal Illumination

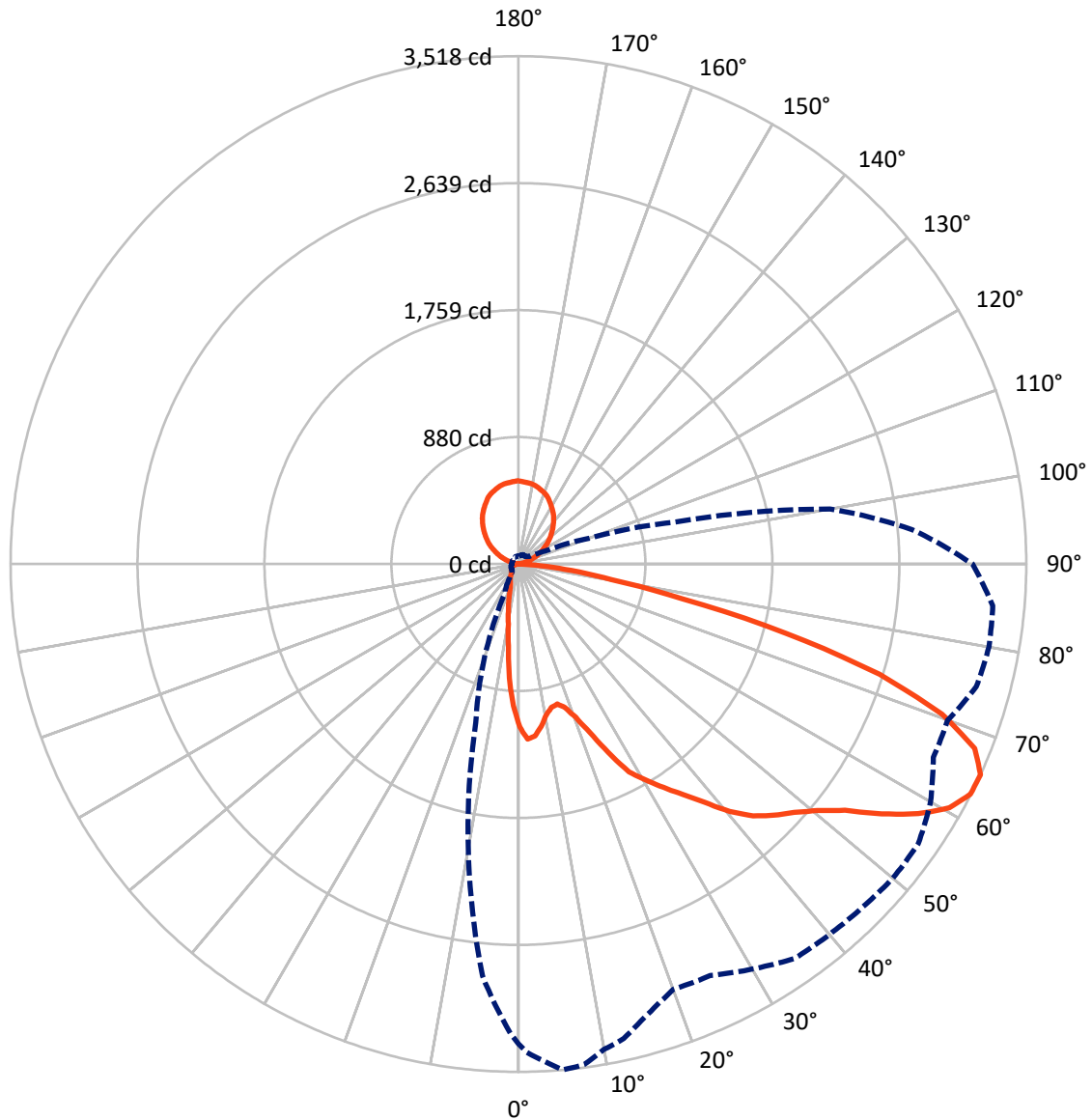
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228443
CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

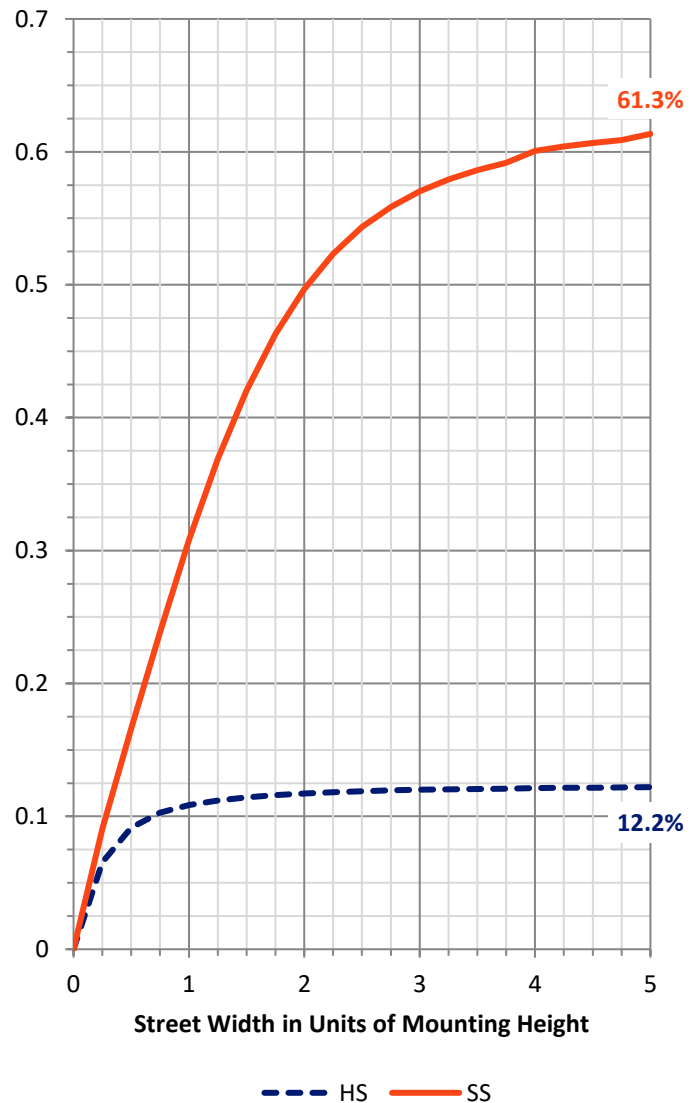
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	678.4	713.1	1391.5
	% Fixture	12.3	13.0	25.3
Street Side	Lumens	3401.6	713.1	4114.7
	% Fixture	61.8	13.0	74.7
Total	Lumens	4080.0	1426.2	5506.2
	% Fixture	74.1	25.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.6
10°-20°	178.7	3.2
20°-30°	259.7	4.7
30°-40°	384.1	7.0
40°-50°	559.6	10.2
50°-60°	838.9	15.2
60°-70°	1045.4	19.0
70°-80°	612.4	11.1
80°-90°	114.5	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	2.8
120°-130°	223.9	4.1
130°-140°	265.6	4.8
140°-150°	269.3	4.9
150°-160°	231.1	4.2
160°-170°	155.1	2.8
170°-180°	54.3	1.0
0°-90°	4080.0	74.1
0°-180°	5506.2	100.0



REPORT NUMBER: P228443

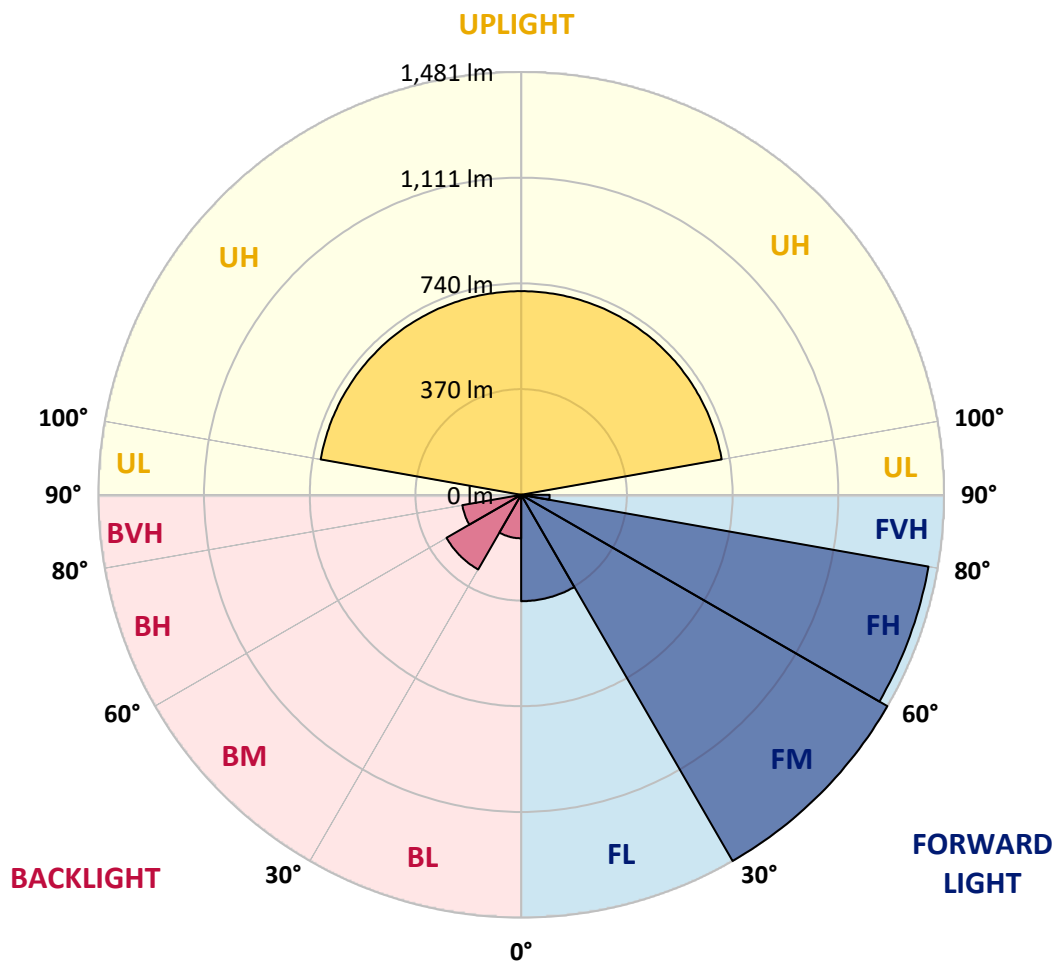
CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.7	6.8			
FM (30°-60°)	1480.7	26.9			
FH (60°-80°)	1448.4	26.3			G1/1800
FVH (80°-90°)	99.8	1.8			G1/100
BL (0°-30°)	152.3	2.8	B1/500		
BM (30°-60°)	301.9	5.5	B1/1000		
BH (60°-80°)	209.4	3.8	B1/500		G1/500
BVH (80°-90°)	14.8	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	13.0		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1198.6	1195.3	1214.7	1217.9	1230.9	1230.9	1245.4	1258.3	1263.2	1274.5	1303.6
5°	1159.8	1169.5	1196.9	1224.4	1243.8	1263.2	1284.2	1310.0	1331.0	1366.5	1440.9
7.5°	1074.2	1088.7	1135.6	1163.0	1193.7	1227.6	1253.5	1284.2	1316.5	1376.2	1508.7
10°	990.2	1001.5	1061.3	1095.2	1138.8	1174.3	1211.5	1245.4	1280.9	1355.2	1508.7
12.5°	936.9	951.4	1019.3	1051.6	1101.6	1138.8	1184.0	1224.4	1266.4	1345.5	1494.2
15°	925.6	941.7	1006.3	1046.7	1090.3	1125.9	1166.2	1208.2	1250.2	1327.8	1460.2
17.5°	956.3	975.6	1045.1	1090.3	1124.3	1164.6	1193.7	1234.1	1261.6	1322.9	1385.9
20°	1028.9	1051.6	1133.9	1177.6	1205.0	1230.9	1253.5	1277.7	1289.0	1303.6	1292.2
22.5°	1145.3	1172.7	1266.4	1316.5	1335.9	1355.2	1356.9	1360.1	1352.0	1313.2	1226.0
25°	1311.6	1339.1	1445.7	1494.2	1494.2	1494.2	1476.4	1463.5	1426.3	1353.6	1208.2
27.5°	1466.7	1502.2	1629.8	1660.5	1650.8	1636.3	1602.4	1570.1	1516.8	1395.6	1206.6
30°	1583.0	1618.5	1736.5	1760.7	1736.5	1700.9	1647.6	1600.8	1537.8	1416.6	1217.9
32.5°	1689.6	1731.6	1844.7	1847.9	1804.3	1763.9	1704.1	1650.8	1584.6	1455.4	1251.9
35°	1802.7	1844.7	1959.4	1936.7	1873.8	1818.8	1757.5	1710.6	1644.4	1505.5	1306.8
37.5°	1959.4	1996.5	2093.4	2040.1	1959.4	1888.3	1822.1	1760.7	1694.5	1573.3	1398.9
40°	2111.2	2164.5	2253.3	2167.7	2069.2	1973.9	1901.2	1836.6	1763.9	1665.4	1516.8
42.5°	2253.3	2303.4	2385.8	2276.0	2161.3	2066.0	1990.1	1920.6	1851.1	1770.4	1658.9
45°	2361.6	2413.3	2482.7	2366.4	2235.6	2137.0	2054.7	1993.3	1931.9	1877.0	1838.2
47.5°	2466.6	2518.3	2571.6	2445.6	2316.3	2216.2	2119.3	2062.7	2014.3	1985.2	2032.1
50°	2602.3	2637.8	2683.0	2547.3	2410.0	2295.3	2198.4	2154.8	2109.6	2119.3	2276.0
52.5°	2786.4	2817.1	2833.2	2700.8	2547.3	2416.5	2309.9	2250.1	2213.0	2269.5	2534.4
55°	3046.5	3090.1	3054.5	2923.7	2729.9	2581.3	2450.4	2379.3	2356.7	2432.6	2792.9
57.5°	3271.0	3290.4	3264.5	3135.3	2936.6	2770.2	2631.3	2557.0	2531.2	2631.3	3028.7
60°	3369.5	3393.8	3429.3	3317.8	3132.1	2967.3	2847.8	2775.1	2731.5	2847.8	3217.7
62.5°	3385.7	3426.1	3513.3	3456.7	3309.8	3187.0	3078.8	2978.6	2944.7	3033.5	3342.1
65°	3322.7	3384.1	3518.1	3497.1	3414.8	3367.9	3277.5	3199.9	3135.3	3145.0	3335.6
67.5°	3180.5	3251.6	3408.3	3398.6	3408.3	3408.3	3329.1	3264.5	3180.5	3061.0	3090.1
70°	2838.1	2931.8	3112.7	3159.5	3241.9	3241.9	3172.5	3073.9	2977.0	2731.5	2582.9
72.5°	2274.3	2337.3	2615.2	2842.9	2947.9	2905.9	2838.1	2673.3	2460.1	2190.4	1988.4
75°	1539.4	1576.5	1917.4	2334.1	2524.7	2489.2	2377.7	2172.6	1952.9	1652.5	1397.2
77.5°	857.7	906.2	1161.4	1487.7	1744.5	1739.7	1725.1	1594.3	1419.9	1171.1	1038.6
80°	504.0	520.1	654.2	891.6	1112.9	1059.6	1022.5	919.1	830.3	717.2	819.0
82.5°	308.5	292.4	371.5	542.7	657.4	634.8	571.8	533.1	491.1	460.4	544.4
85°	84.0	75.9	151.8	227.8	279.4	302.1	302.1	298.8	268.1	201.9	242.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.5	3.0	4.0
100°	8.0	8.0	8.0	8.5	9.0	9.5	10.0	11.0	12.0	14.0	22.0
102.5°	28.0	28.0	28.0	29.0	30.0	31.0	32.0	33.5	35.0	38.0	45.0
105°	54.0	54.0	54.0	54.5	55.0	55.5	56.0	57.2	58.5	61.0	66.0
107.5°	78.0	77.8	77.0	77.8	78.5	79.2	80.0	81.0	82.0	84.0	88.0
110°	101.0	101.2	102.0	102.2	102.5	102.8	103.0	103.8	104.5	106.0	110.0



REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	124.0	124.0	124.0	124.5	125.0	125.5	126.0	126.8	127.5	129.0	132.0
115°	146.0	146.2	147.0	147.5	148.0	148.5	149.0	149.5	150.0	151.0	154.0
117.5°	169.0	169.2	170.0	170.5	171.0	171.5	172.0	172.5	173.0	174.0	177.0
120°	193.0	193.4	195.0	195.2	195.5	195.8	196.0	196.5	197.0	198.0	201.0
122.5°	219.0	219.2	220.0	220.2	220.5	220.8	221.0	221.5	222.0	223.0	226.0
125°	244.0	244.4	246.0	246.2	246.5	246.8	247.0	247.2	247.5	248.0	251.0
127.5°	267.0	267.4	269.0	269.2	269.5	269.8	270.0	270.5	271.0	272.0	274.0
130°	290.0	290.4	292.0	292.2	292.5	292.8	293.0	293.2	293.5	294.0	298.0
132.5°	313.0	313.2	314.0	314.8	315.5	316.2	317.0	317.2	317.5	318.0	321.0
135°	336.0	336.2	337.0	337.5	338.0	338.5	339.0	339.5	340.0	341.0	345.0
137.5°	359.0	359.2	360.0	360.8	361.5	362.2	363.0	363.2	363.5	364.0	367.0
140°	382.0	382.2	383.0	383.5	384.0	384.5	385.0	385.2	385.5	386.0	388.0
142.5°	404.0	404.4	406.0	406.5	407.0	407.5	408.0	407.8	407.5	407.0	410.0
145°	425.0	425.2	426.0	426.5	427.0	427.5	428.0	428.0	428.0	428.0	431.0
147.5°	444.0	444.0	444.0	444.8	445.5	446.2	447.0	447.2	447.5	448.0	452.0
150°	461.0	461.2	462.0	462.5	463.0	463.5	464.0	464.2	464.5	465.0	469.0
152.5°	479.0	479.2	480.0	480.8	481.5	482.2	483.0	482.8	482.5	482.0	485.0
155°	499.0	499.2	500.0	500.5	501.0	501.5	502.0	501.8	501.5	501.0	503.0
157.5°	513.0	513.4	515.0	515.5	516.0	516.5	517.0	516.8	516.5	516.0	519.0
160°	525.0	525.4	527.0	527.5	528.0	528.5	529.0	529.0	529.0	529.0	532.0
162.5°	535.0	535.2	536.0	536.8	537.5	538.2	539.0	538.8	538.5	538.0	541.0
165°	546.0	546.2	547.0	547.5	548.0	548.5	549.0	548.8	548.5	548.0	552.0
167.5°	555.0	555.2	556.0	556.8	557.5	558.2	559.0	558.8	558.5	558.0	561.0
170°	562.0	562.2	563.0	563.8	564.5	565.2	566.0	565.8	565.5	565.0	567.0
172.5°	565.0	565.2	566.0	566.8	567.5	568.2	569.0	568.5	568.0	567.0	569.0
175°	567.0	567.4	569.0	569.2	569.5	569.8	570.0	569.8	569.5	569.0	572.0
177.5°	572.0	572.2	573.0	573.5	574.0	574.5	575.0	574.8	574.5	574.0	578.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1314.9	1316.5	1311.6	1322.9	1310.0	1303.6	1284.2	1284.2	1268.0	1255.1	1240.6
5°	1468.3	1478.0	1469.9	1471.5	1445.7	1419.9	1381.1	1358.5	1318.1	1274.5	1229.2
7.5°	1571.7	1587.8	1581.4	1553.9	1513.5	1458.6	1394.0	1332.6	1266.4	1195.3	1129.1
10°	1599.2	1616.9	1602.4	1550.7	1484.5	1406.9	1329.4	1247.0	1166.2	1090.3	1019.3
12.5°	1560.4	1573.3	1542.6	1486.1	1421.5	1343.9	1263.2	1192.1	1096.8	1016.0	933.6
15°	1461.8	1453.8	1450.5	1410.2	1364.9	1301.9	1226.0	1153.3	1064.5	982.1	894.9
17.5°	1355.2	1345.5	1348.8	1332.6	1326.2	1297.1	1240.6	1179.2	1100.0	999.9	906.2
20°	1261.6	1251.9	1256.7	1264.8	1289.0	1290.6	1280.9	1240.6	1182.4	1077.4	962.7
22.5°	1180.8	1182.4	1198.6	1221.2	1261.6	1313.2	1353.6	1361.7	1321.3	1198.6	1054.8
25°	1156.6	1148.5	1166.2	1203.4	1271.2	1371.4	1461.8	1507.1	1484.5	1361.7	1185.6
27.5°	1148.5	1137.2	1156.6	1205.0	1313.2	1453.8	1583.0	1650.8	1658.9	1532.9	1326.2
30°	1148.5	1143.6	1163.0	1226.0	1340.7	1481.2	1625.0	1726.8	1759.1	1654.1	1448.9
32.5°	1163.0	1166.2	1200.2	1280.9	1398.9	1542.6	1691.2	1801.1	1859.2	1780.1	1547.5
35°	1195.3	1201.8	1250.2	1343.9	1471.5	1616.9	1752.6	1864.1	1957.7	1915.8	1639.5
37.5°	1264.8	1274.5	1334.2	1429.5	1545.8	1676.7	1809.1	1928.7	2064.4	2046.6	1736.5
40°	1387.5	1387.5	1447.3	1529.7	1625.0	1725.1	1856.0	1996.5	2162.9	2187.1	1856.0
42.5°	1542.6	1536.2	1574.9	1634.7	1700.9	1784.9	1902.8	2059.5	2255.0	2308.3	1946.4
45°	1755.8	1723.5	1744.5	1759.1	1791.4	1843.1	1948.1	2119.3	2329.3	2398.7	2014.3
47.5°	2006.2	1961.0	1943.2	1915.8	1904.4	1923.8	2014.3	2166.1	2400.3	2476.3	2124.1
50°	2282.4	2238.8	2192.0	2117.7	2053.1	2033.7	2088.6	2229.1	2476.3	2573.2	2245.3
52.5°	2569.9	2539.3	2477.9	2361.6	2238.8	2169.4	2195.2	2334.1	2597.4	2723.4	2389.0
55°	2833.2	2842.9	2768.6	2632.9	2456.9	2350.3	2381.0	2519.9	2817.1	2965.7	2629.7
57.5°	3115.9	3090.1	3031.9	2891.4	2699.2	2584.5	2597.4	2765.4	3062.6	3175.7	2868.8
60°	3303.3	3303.3	3240.3	3133.7	2951.2	2844.5	2863.9	3019.0	3259.7	3271.0	2975.4
62.5°	3424.4	3442.2	3392.1	3316.2	3138.5	3049.7	3115.9	3225.8	3356.6	3262.9	2922.1
65°	3366.3	3385.7	3380.8	3296.8	3170.8	3164.4	3283.9	3309.8	3298.4	3145.0	2737.9
67.5°	3103.0	3064.2	3062.6	3019.0	2993.2	3127.2	3279.1	3287.1	3096.5	2914.0	2447.2
70°	2602.3	2536.0	2510.2	2523.1	2641.0	2891.4	3107.8	3046.5	2742.8	2586.1	2083.7
72.5°	2006.2	1927.1	1910.9	1961.0	2143.5	2495.6	2791.2	2705.6	2255.0	2072.4	1613.7
75°	1423.1	1389.2	1390.8	1489.3	1686.4	2025.6	2369.7	2361.6	1670.2	1429.5	1111.3
77.5°	1035.4	1041.9	1070.9	1109.7	1279.3	1607.2	1930.3	1909.3	1188.9	982.1	777.0
80°	854.5	864.2	864.2	843.2	886.8	1061.3	1311.6	1400.5	796.3	660.7	542.7
82.5°	613.8	662.3	689.7	655.8	639.7	699.4	822.2	880.3	495.9	416.7	379.6
85°	292.4	334.4	344.1	336.0	386.1	441.0	470.1	481.4	271.4	193.8	248.8
87.5°	0.0	0.0	1.6	12.9	35.5	61.4	61.4	93.7	14.5	4.8	11.3
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°	9.0	11.0	13.0	10.0	7.0	6.0	5.0	4.5	4.0	4.0	4.0
100°	30.0	31.0	32.0	31.0	30.0	28.5	27.0	26.5	26.0	25.0	26.0
102.5°	50.0	50.5	51.0	50.5	50.0	49.0	48.0	48.5	49.0	48.0	49.0
105°	70.0	70.5	71.0	71.0	71.0	70.0	69.0	70.0	71.0	69.0	71.0
107.5°	91.0	92.0	93.0	92.5	92.0	91.5	91.0	91.5	92.0	91.0	92.0
110°	112.0	113.0	114.0	114.0	114.0	113.5	113.0	113.5	114.0	113.0	114.0



REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	134.0	135.0	136.0	136.0	136.0	135.5	135.0	136.0	137.0	135.0	137.0
115°	156.0	157.0	158.0	158.0	158.0	158.0	158.0	159.0	160.0	159.0	160.0
117.5°	179.0	179.5	180.0	180.5	181.0	180.5	180.0	181.0	182.0	180.0	182.0
120°	202.0	203.0	204.0	204.0	204.0	204.0	204.0	205.0	206.0	204.0	206.0
122.5°	227.0	227.5	228.0	228.0	228.0	228.5	229.0	231.0	233.0	232.0	233.0
125°	252.0	252.5	253.0	253.5	254.0	254.0	254.0	255.5	257.0	256.0	257.0
127.5°	276.0	277.0	278.0	277.5	277.0	277.5	278.0	279.5	281.0	278.0	281.0
130°	299.0	300.0	301.0	301.0	301.0	301.5	302.0	303.5	305.0	303.0	305.0
132.5°	322.0	323.5	325.0	325.0	325.0	325.5	326.0	327.5	329.0	327.0	329.0
135°	345.0	346.5	348.0	348.0	348.0	348.5	349.0	350.0	351.0	350.0	351.0
137.5°	367.0	368.0	369.0	369.0	369.0	369.5	370.0	372.0	374.0	372.0	374.0
140°	389.0	389.5	390.0	390.0	390.0	391.0	392.0	394.0	396.0	394.0	396.0
142.5°	410.0	411.0	412.0	412.0	412.0	412.5	413.0	414.5	416.0	415.0	416.0
145°	432.0	433.0	434.0	433.5	433.0	433.5	434.0	435.5	437.0	435.0	437.0
147.5°	453.0	453.5	454.0	453.0	452.0	452.5	453.0	454.5	456.0	453.0	456.0
150°	470.0	470.5	471.0	470.0	469.0	469.0	469.0	471.0	473.0	470.0	473.0
152.5°	486.0	486.5	487.0	486.5	486.0	486.0	486.0	487.5	489.0	486.0	489.0
155°	503.0	503.5	504.0	503.5	503.0	503.5	504.0	505.5	507.0	505.0	507.0
157.5°	519.0	519.0	519.0	518.0	517.0	517.5	518.0	520.5	523.0	520.0	523.0
160°	532.0	532.0	532.0	531.0	530.0	530.0	530.0	531.5	533.0	531.0	533.0
162.5°	541.0	541.5	542.0	541.0	540.0	539.0	538.0	539.0	540.0	537.0	540.0
165°	552.0	552.5	553.0	551.5	550.0	549.0	548.0	549.0	550.0	548.0	550.0
167.5°	560.0	560.0	560.0	559.0	558.0	558.5	559.0	561.0	563.0	561.0	563.0
170°	566.0	565.5	565.0	564.5	564.0	565.0	566.0	568.5	571.0	569.0	571.0
172.5°	568.0	568.5	569.0	568.0	567.0	567.5	568.0	569.5	571.0	568.0	571.0
175°	572.0	572.5	573.0	571.5	570.0	569.0	568.0	569.5	571.0	568.0	571.0
177.5°	577.0	577.0	577.0	575.5	574.0	574.0	574.0	575.5	577.0	574.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
2.5°	1221.2	1200.2	1184.0	1164.6	1148.5	1132.3	1121.0	1096.8	1077.4	1033.8	1022.5
5°	1192.1	1146.9	1116.2	1087.1	1049.9	1024.1	996.6	962.7	925.6	862.6	843.2
7.5°	1077.4	1020.9	978.9	936.9	888.4	844.8	804.4	759.2	694.6	626.7	600.9
10°	953.0	893.3	835.1	785.0	726.9	678.4	642.9	610.6	558.9	507.2	473.3
12.5°	851.3	783.4	717.2	667.1	636.4	612.2	586.4	560.5	505.6	447.4	407.1
15°	804.4	725.3	667.1	625.1	597.7	568.6	537.9	508.8	444.2	376.4	327.9
17.5°	810.9	720.4	646.1	589.6	552.4	512.1	476.5	439.4	368.3	287.5	243.9
20°	846.4	725.3	623.5	557.3	504.0	452.3	407.1	360.2	273.0	210.0	179.3
22.5°	891.6	741.4	610.6	525.0	458.7	394.1	336.0	281.1	201.9	164.8	150.2
25°	969.2	778.6	607.4	495.9	415.1	337.6	277.8	219.7	163.1	145.4	137.3
27.5°	1066.1	820.6	610.6	474.9	378.0	292.4	226.1	182.5	147.0	137.3	130.8
30°	1163.0	864.2	596.0	442.6	334.4	250.4	193.8	166.4	145.4	134.1	122.8
32.5°	1248.6	896.5	571.8	408.7	295.6	213.2	164.8	142.1	127.6	114.7	111.5
35°	1310.0	911.0	544.4	387.7	269.8	190.6	145.4	127.6	113.1	100.1	93.7
37.5°	1368.2	912.6	515.3	368.3	260.1	180.9	134.1	117.9	105.0	93.7	87.2
40°	1427.9	906.2	499.1	348.9	245.5	176.1	129.2	109.8	101.8	88.8	82.4
42.5°	1471.5	894.9	492.7	337.6	232.6	163.1	126.0	108.2	96.9	87.2	79.1
45°	1511.9	883.6	492.7	327.9	222.9	155.1	119.5	109.8	93.7	85.6	75.9
47.5°	1560.4	888.4	494.3	319.8	214.8	147.0	113.1	106.6	95.3	84.0	74.3
50°	1642.8	943.3	502.4	315.0	208.4	140.5	108.2	101.8	105.0	82.4	72.7
52.5°	1784.9	1030.6	515.3	311.8	201.9	135.7	101.8	98.5	106.6	82.4	71.1
55°	1970.7	1119.4	528.2	303.7	192.2	126.0	98.5	92.1	98.5	82.4	69.5
57.5°	2151.6	1185.6	539.5	292.4	176.1	116.3	93.7	87.2	90.5	80.8	66.2
60°	2256.6	1237.3	550.8	273.0	156.7	105.0	88.8	82.4	80.8	80.8	64.6
62.5°	2285.7	1217.9	544.4	248.8	140.5	96.9	84.0	77.5	72.7	82.4	64.6
65°	2193.6	1116.2	520.1	227.8	129.2	93.7	79.1	74.3	69.5	71.1	61.4
67.5°	1910.9	938.5	453.9	208.4	127.6	92.1	75.9	71.1	64.6	63.0	58.2
70°	1558.8	736.6	376.4	193.8	126.0	92.1	72.7	66.2	61.4	56.5	53.3
72.5°	1198.6	550.8	316.6	187.4	127.6	90.5	67.8	59.8	54.9	51.7	48.5
75°	843.2	389.3	263.3	168.0	119.5	85.6	63.0	53.3	48.5	45.2	42.0
77.5°	610.6	264.9	195.5	135.7	101.8	74.3	54.9	45.2	40.4	38.8	35.5
80°	389.3	163.1	130.8	100.1	74.3	58.2	42.0	35.5	32.3	29.1	27.5
82.5°	224.5	95.3	79.1	67.8	48.5	38.8	30.7	27.5	21.0	19.4	17.8
85°	137.3	59.8	43.6	35.5	30.7	24.2	17.8	16.2	11.3	9.7	8.1
87.5°	30.7	12.9	11.3	8.1	9.7	8.1	4.8	3.2	0.0	0.0	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°	4.5	5.0	6.0	7.0	10.0	13.0	11.0	9.0	4.0	3.0	2.0
100°	26.5	27.0	28.5	30.0	31.0	32.0	31.0	30.0	22.0	14.0	10.0
102.5°	48.5	48.0	49.0	50.0	50.5	51.0	50.5	50.0	45.0	38.0	32.0
105°	70.0	69.0	70.0	71.0	71.0	71.0	70.5	70.0	66.0	61.0	56.0
107.5°	91.5	91.0	91.5	92.0	92.5	93.0	92.0	91.0	88.0	84.0	80.0
110°	113.5	113.0	113.5	114.0	114.0	114.0	113.0	112.0	110.0	106.0	103.0



REPORT NUMBER: P228443
 CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	136.0	135.0	135.5	136.0	136.0	136.0	135.0	134.0	132.0	129.0	126.0	0°
115°	159.0	158.0	158.0	158.0	158.0	158.0	157.0	156.0	154.0	151.0	149.0	2.5°
117.5°	181.0	180.0	180.5	181.0	180.5	180.0	179.5	179.0	177.0	174.0	172.0	5°
120°	205.0	204.0	204.0	204.0	204.0	204.0	203.0	202.0	201.0	198.0	196.0	7.5°
122.5°	231.0	229.0	228.5	228.0	228.0	228.0	227.5	227.0	226.0	223.0	221.0	10°
125°	255.5	254.0	254.0	254.0	253.5	253.0	252.5	252.0	251.0	248.0	247.0	12.5°
127.5°	279.5	278.0	277.5	277.0	277.5	278.0	277.0	276.0	274.0	272.0	270.0	15°
130°	303.5	302.0	301.5	301.0	301.0	301.0	300.0	299.0	298.0	294.0	293.0	17.5°
132.5°	327.5	326.0	325.5	325.0	325.0	325.0	323.5	322.0	321.0	318.0	317.0	20°
135°	350.0	349.0	348.5	348.0	348.0	348.0	346.5	345.0	345.0	341.0	339.0	22.5°
137.5°	372.0	370.0	369.5	369.0	369.0	369.0	368.0	367.0	367.0	364.0	363.0	25°
140°	394.0	392.0	391.0	390.0	390.0	390.0	389.5	389.0	388.0	386.0	385.0	27.5°
142.5°	414.5	413.0	412.5	412.0	412.0	412.0	411.0	410.0	410.0	407.0	408.0	30°
145°	435.5	434.0	433.5	433.0	433.5	434.0	433.0	432.0	431.0	428.0	428.0	32.5°
147.5°	454.5	453.0	452.5	452.0	453.0	454.0	453.5	453.0	452.0	448.0	447.0	35°
150°	471.0	469.0	469.0	469.0	470.0	471.0	470.5	470.0	469.0	465.0	464.0	37.5°
152.5°	487.5	486.0	486.0	486.0	486.5	487.0	486.5	486.0	485.0	482.0	483.0	40°
155°	505.5	504.0	503.5	503.0	503.5	504.0	503.5	503.0	503.0	501.0	502.0	42.5°
157.5°	520.5	518.0	517.5	517.0	518.0	519.0	519.0	519.0	519.0	516.0	517.0	45°
160°	531.5	530.0	530.0	530.0	531.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°
162.5°	539.0	538.0	539.0	540.0	541.0	542.0	541.5	541.0	541.0	538.0	539.0	50°
165°	549.0	548.0	549.0	550.0	551.5	553.0	552.5	552.0	552.0	548.0	549.0	52.5°
167.5°	561.0	559.0	558.5	558.0	559.0	560.0	560.0	560.0	561.0	558.0	559.0	55°
170°	568.5	566.0	565.0	564.0	564.5	565.0	565.5	566.0	567.0	565.0	566.0	57.5°
172.5°	569.5	568.0	567.5	567.0	568.0	569.0	568.5	568.0	569.0	567.0	569.0	60°
175°	569.5	568.0	569.0	570.0	571.5	573.0	572.5	572.0	572.0	569.0	570.0	62.5°
177.5°	575.5	574.0	574.0	574.0	575.5	577.0	577.0	577.0	578.0	574.0	575.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



NUMBER: P228443
 NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	112.5°	175°
1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	124.0
1004.7	980.5	982.1	977.3	964.3	943.3	936.9	925.6	927.2	933.6	927.2	115°	147.0
820.6	791.5	794.7	793.1	780.2	765.7	754.3	739.8	735.0	739.8	731.7	117.5°	170.0
581.5	562.1	568.6	583.1	581.5	573.4	563.7	547.6	544.4	546.0	531.4	120°	195.0
444.2	424.8	420.0	418.4	415.1	410.3	397.4	384.4	379.6	381.2	371.5	122.5°	220.0
371.5	355.4	336.0	318.2	302.1	295.6	279.4	271.4	269.8	269.8	264.9	125°	246.0
294.0	281.1	269.8	252.0	239.1	229.4	218.1	211.6	210.0	211.6	211.6	127.5°	269.0
219.7	213.2	208.4	206.8	200.3	193.8	187.4	184.1	182.5	182.5	184.1	130°	292.0
168.0	166.4	166.4	166.4	174.5	180.9	182.5	177.7	176.1	174.5	172.8	132.5°	314.0
145.4	143.8	145.4	155.1	150.2	145.4	145.4	145.4	145.4	145.4	147.0	135°	337.0
134.1	135.7	137.3	132.5	127.6	124.4	122.8	122.8	121.1	121.1	122.8	137.5°	360.0
127.6	126.0	124.4	121.1	117.9	113.1	111.5	109.8	109.8	109.8	109.8	140°	383.0
119.5	117.9	116.3	113.1	108.2	101.8	100.1	100.1	98.5	100.1	100.1	142.5°	406.0
109.8	108.2	106.6	103.4	98.5	95.3	93.7	90.5	90.5	90.5	92.1	145°	426.0
88.8	87.2	87.2	88.8	88.8	87.2	87.2	84.0	84.0	84.0	84.0	147.5°	444.0
82.4	80.8	80.8	79.1	80.8	82.4	80.8	79.1	79.1	77.5	77.5	150°	462.0
77.5	77.5	75.9	74.3	74.3	77.5	75.9	74.3	72.7	72.7	72.7	152.5°	480.0
74.3	72.7	72.7	71.1	71.1	71.1	69.5	67.8	66.2	66.2	66.2	155°	500.0
71.1	71.1	69.5	67.8	66.2	66.2	63.0	61.4	61.4	61.4	63.0	157.5°	515.0
69.5	67.8	67.8	66.2	64.6	61.4	59.8	58.2	58.2	58.2	58.2	160°	527.0
67.8	66.2	64.6	64.6	61.4	59.8	58.2	56.5	56.5	56.5	56.5	162.5°	536.0
66.2	64.6	63.0	61.4	59.8	58.2	56.5	54.9	54.9	54.9	54.9	165°	547.0
63.0	61.4	61.4	59.8	59.8	58.2	56.5	54.9	54.9	54.9	53.3	167.5°	556.0
61.4	59.8	58.2	58.2	58.2	56.5	54.9	53.3	53.3	53.3	53.3	170°	563.0
59.8	58.2	58.2	56.5	56.5	54.9	54.9	53.3	51.7	51.7	50.1	172.5°	566.0
58.2	56.5	56.5	54.9	56.5	54.9	53.3	51.7	50.1	50.1	48.5	175°	569.0
56.5	54.9	54.9	54.9	53.3	53.3	51.7	48.5	48.5	48.5	46.8	177.5°	573.0
53.3	51.7	51.7	53.3	51.7	50.1	50.1	46.8	46.8	45.2	45.2	180°	576.0
48.5	48.5	48.5	50.1	48.5	46.8	46.8	45.2	43.6	42.0	42.0		
45.2	43.6	45.2	45.2	45.2	43.6	45.2	42.0	40.4	38.8	38.8		
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	37.2	35.5	33.9		
30.7	32.3	32.3	32.3	32.3	33.9	32.3	32.3	32.3	30.7	29.1		
22.6	22.6	24.2	25.8	24.2	25.8	24.2	25.8	24.2	24.2	24.2		
12.9	12.9	14.5	16.2	16.2	17.8	14.5	16.2	16.2	17.8	16.2		
4.8	4.8	4.8	4.8	6.5	6.5	4.8	6.5	6.5	8.1	8.1		
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	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		
2.0	2.0	2.0	2.0	3.0	4.0	9.0	11.0	12.0	13.0	11.5		
8.0	8.0	8.0	10.0	14.0	22.0	30.0	31.0	31.5	32.0	31.5		
28.0	28.0	28.0	32.0	38.0	45.0	50.0	50.5	50.8	51.0	50.8		
54.0	54.0	54.0	56.0	61.0	66.0	70.0	70.5	70.8	71.0	71.0		
77.0	78.0	77.0	80.0	84.0	88.0	91.0	92.0	92.5	93.0	92.8		
102.0	101.0	102.0	103.0	106.0	110.0	112.0	113.0	113.5	114.0	114.0		

'228443
 ISS-AF-800-LED-E1-SLL-7050-ULG

REPORT NUMBER: P228443
 CATALOG NUMBER: ISS-AF-800

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	1129.1	1129.1
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	940.1	940.1
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	738.2	736.6
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	536.3	531.4
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	374.8	361.8
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	271.4	266.5
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	214.8	214.8
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	185.8	185.8
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	171.2	169.6
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	147.0	145.4
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	121.1	121.1
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	109.8	109.8
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	100.1	101.8
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	92.1	92.1
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	82.4	82.4
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	75.9	74.3
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	69.5	69.5
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	64.6	64.6
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	61.4	61.4
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	59.8	59.8
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	56.5	56.5
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	54.9	54.9
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	53.3	54.9
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	51.7	51.7
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	50.1	50.1
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	48.5	48.5
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	46.8	46.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	43.6	43.6
										70°	40.4	40.4
										72.5°	37.2	37.2
										75°	33.9	32.3
										77.5°	29.1	27.5
										80°	24.2	22.6
										82.5°	17.8	16.2
										85°	8.1	8.1
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.0	8.5
										100°	31.0	30.5
										102.5°	50.5	50.2
										105°	71.0	71.0
										107.5°	92.5	92.2
										110°	114.0	114.0

REPORT NUMBER: P228443

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

0-LED-E1-SLL-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	112.5°	136.0	136.0	136.0
920.7	924.0	927.2	933.6	930.4	928.8	927.2	936.9	941.7	115°	158.0	158.0	158.0
712.3	710.7	715.6	717.2	712.3	704.3	699.4	701.0	705.9	117.5°	180.5	180.8	181.0
508.8	505.6	504.0	505.6	500.7	492.7	486.2	487.8	492.7	120°	204.0	204.0	204.0
358.6	360.2	363.4	366.7	366.7	366.7	368.3	378.0	389.3	122.5°	228.0	228.0	228.0
269.8	273.0	279.4	284.3	289.1	290.8	292.4	305.3	315.0	125°	253.5	253.8	254.0
218.1	219.7	222.9	226.1	229.4	229.4	231.0	235.8	243.9	127.5°	277.5	277.2	277.0
185.8	185.8	185.8	184.1	182.5	179.3	177.7	176.1	177.7	130°	301.0	301.0	301.0
166.4	164.8	161.5	158.3	156.7	151.8	150.2	145.4	143.8	132.5°	325.0	325.0	325.0
145.4	145.4	145.4	143.8	142.1	140.5	137.3	132.5	129.2	135°	348.0	348.0	348.0
121.1	122.8	122.8	124.4	127.6	127.6	127.6	127.6	122.8	137.5°	369.0	369.0	369.0
109.8	109.8	111.5	111.5	113.1	113.1	113.1	114.7	116.3	140°	390.0	390.0	390.0
101.8	103.4	103.4	105.0	105.0	106.6	106.6	108.2	108.2	142.5°	412.0	412.0	412.0
93.7	95.3	95.3	95.3	98.5	98.5	96.9	98.5	98.5	145°	433.5	433.2	433.0
82.4	82.4	82.4	82.4	82.4	82.4	79.1	77.5	79.1	147.5°	453.0	452.5	452.0
74.3	72.7	71.1	71.1	71.1	72.7	71.1	72.7	72.7	150°	470.0	469.5	469.0
67.8	67.8	67.8	67.8	67.8	67.8	67.8	69.5	71.1	152.5°	486.5	486.2	486.0
64.6	64.6	64.6	64.6	64.6	64.6	64.6	66.2	66.2	155°	503.5	503.2	503.0
61.4	61.4	63.0	63.0	63.0	63.0	63.0	63.0	64.6	157.5°	518.0	517.5	517.0
59.8	59.8	59.8	59.8	59.8	59.8	59.8	61.4	63.0	160°	531.0	530.5	530.0
58.2	58.2	58.2	58.2	58.2	58.2	58.2	59.8	61.4	162.5°	541.0	540.5	540.0
54.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	58.2	165°	551.5	550.8	550.0
54.9	54.9	54.9	54.9	53.3	53.3	53.3	53.3	54.9	167.5°	559.0	558.5	558.0
53.3	53.3	53.3	51.7	51.7	50.1	50.1	50.1	53.3	170°	564.5	564.2	564.0
50.1	50.1	50.1	48.5	48.5	48.5	48.5	50.1	50.1	172.5°	568.0	567.5	567.0
46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	175°	571.5	570.8	570.0
45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	177.5°	575.5	574.8	574.0
43.6	42.0	42.0	42.0	42.0	43.6	42.0	42.0	42.0	180°	576.0	576.0	576.0
40.4	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8				
37.2	37.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5				
32.3	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7				
27.5	27.5	25.8	25.8	25.8	25.8	25.8	25.8	25.8				
22.6	21.0	21.0	21.0	21.0	21.0	21.0	19.4	19.4				
16.2	16.2	16.2	14.5	14.5	14.5	14.5	12.9	11.3				
6.5	8.1	8.1	9.7	8.1	8.1	8.1	6.5	3.2				
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	0.0	0.0				
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
7.0	6.5	6.0	5.5	5.0	4.8	4.5	4.0	4.0				
30.0	29.2	28.5	27.8	27.0	26.8	26.5	26.0	25.0				
50.0	49.5	49.0	48.5	48.0	48.2	48.5	49.0	48.0				
71.0	70.5	70.0	69.5	69.0	69.5	70.0	71.0	69.0				
92.0	91.8	91.5	91.2	91.0	91.2	91.5	92.0	91.0				
114.0	113.8	113.5	113.2	113.0	113.2	113.5	114.0	113.0				



REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-U

SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	1129.1	1129.1	1129.1	1129.1
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	938.5	954.6	956.3	946.6
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	699.4	720.4	718.8	705.9
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	494.3	512.1	510.4	508.8
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	400.6	416.7	421.6	432.9
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	324.7	344.1	348.9	361.8
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	250.4	266.5	271.4	281.1
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	184.1	193.8	197.1	203.5
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	143.8	147.0	148.6	150.2
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	129.2	130.8	130.8	132.5
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	119.5	121.1	121.1	122.8
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	114.7	114.7	114.7	114.7
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	109.8	109.8	109.8	111.5
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	101.8	98.5	101.8	100.1
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	79.1	79.1	80.8	82.4
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	74.3	75.9	75.9	77.5
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	71.1	72.7	74.3	75.9
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	67.8	71.1	71.1	72.7
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	66.2	67.8	69.5	71.1
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	64.6	66.2	67.8	69.5
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	61.4	64.6	66.2	67.8
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	59.8	63.0	63.0	66.2
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	56.5	59.8	59.8	63.0
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	53.3	56.5	58.2	59.8
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	51.7	53.3	54.9	56.5
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	48.5	51.7	53.3	54.9
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	46.8	50.1	50.1	53.3
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	43.6	46.8	46.8	48.5
								70°	40.4	42.0	43.6	45.2
								72.5°	37.2	38.8	38.8	40.4
								75°	30.7	32.3	33.9	35.5
								77.5°	25.8	25.8	29.1	29.1
								80°	19.4	19.4	21.0	22.6
								82.5°	11.3	11.3	12.9	12.9
								85°	3.2	3.2	3.2	3.2
								87.5°	0.0	0.0	0.0	0.0
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	1.0	1.0	1.0	1.0
								97.5°	4.0	4.5	4.8	5.0
								100°	26.0	26.5	26.8	27.0
								102.5°	49.0	48.5	48.2	48.0
								105°	71.0	70.0	69.5	69.0
								107.5°	92.0	91.5	91.2	91.0
								110°	114.0	113.5	113.2	113.0

REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

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CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1	112.5°	137.0	136.0	135.5	135.0	135.2
966.0	969.2	964.3	964.3	967.6	980.5	980.5	115°	160.0	159.0	158.5	158.0	158.0
731.7	739.8	735.0	736.6	743.0	757.6	765.7	117.5°	182.0	181.0	180.5	180.0	180.2
525.0	531.4	534.7	539.5	558.9	560.5	570.2	120°	206.0	205.0	204.5	204.0	204.0
437.7	447.4	453.9	462.0	478.1	486.2	497.5	122.5°	233.0	231.0	230.0	229.0	228.8
368.3	379.6	386.1	402.2	411.9	421.6	436.1	125°	257.0	255.5	254.8	254.0	254.0
287.5	300.4	306.9	316.6	336.0	345.7	365.1	127.5°	281.0	279.5	278.8	278.0	277.8
208.4	213.2	226.1	242.3	253.6	269.8	279.4	130°	305.0	303.5	302.8	302.0	301.8
153.5	156.7	163.1	174.5	180.9	193.8	203.5	132.5°	329.0	327.5	326.8	326.0	325.8
132.5	134.1	137.3	140.5	143.8	148.6	153.5	135°	351.0	350.0	349.5	349.0	348.8
122.8	124.4	126.0	127.6	130.8	132.5	134.1	137.5°	374.0	372.0	371.0	370.0	369.8
116.3	116.3	117.9	121.1	121.1	124.4	126.0	140°	396.0	394.0	393.0	392.0	391.5
113.1	116.3	119.5	124.4	126.0	129.2	130.8	142.5°	416.0	414.5	413.8	413.0	412.8
96.9	96.9	98.5	101.8	101.8	103.4	105.0	145°	437.0	435.5	434.8	434.0	433.8
82.4	84.0	85.6	87.2	88.8	92.1	93.7	147.5°	456.0	454.5	453.8	453.0	452.8
79.1	79.1	80.8	84.0	85.6	87.2	88.8	150°	473.0	471.0	470.0	469.0	469.0
75.9	77.5	79.1	80.8	82.4	85.6	87.2	152.5°	489.0	487.5	486.8	486.0	486.0
74.3	75.9	77.5	79.1	82.4	84.0	85.6	155°	507.0	505.5	504.8	504.0	503.8
72.7	74.3	75.9	79.1	80.8	84.0	85.6	157.5°	523.0	520.5	519.2	518.0	517.8
71.1	72.7	74.3	77.5	80.8	84.0	87.2	160°	533.0	531.5	530.8	530.0	530.0
69.5	71.1	74.3	77.5	80.8	85.6	93.7	162.5°	540.0	539.0	538.5	538.0	538.5
67.8	71.1	74.3	77.5	82.4	88.8	96.9	165°	550.0	549.0	548.5	548.0	548.5
66.2	69.5	71.1	75.9	80.8	87.2	88.8	167.5°	563.0	561.0	560.0	559.0	558.8
63.0	66.2	67.8	72.7	79.1	80.8	79.1	170°	571.0	568.5	567.2	566.0	565.5
59.8	61.4	66.2	75.9	82.4	75.9	67.8	172.5°	571.0	569.5	568.8	568.0	567.8
58.2	59.8	63.0	69.5	71.1	63.0	61.4	175°	571.0	569.5	568.8	568.0	568.5
54.9	54.9	56.5	56.5	56.5	56.5	56.5	177.5°	577.0	575.5	574.8	574.0	574.0
50.1	50.1	51.7	51.7	51.7	51.7	51.7	180°	576.0	576.0	576.0	576.0	576.0
45.2	45.2	46.8	46.8	46.8	48.5	48.5						
40.4	42.0	42.0	43.6	43.6	43.6	45.2						
35.5	37.2	37.2	37.2	37.2	38.8	38.8						
30.7	30.7	32.3	32.3	32.3	32.3	32.3						
24.2	24.2	24.2	24.2	24.2	24.2	24.2						
14.5	14.5	16.2	14.5	14.5	12.9	12.9						
3.2	3.2	3.2	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						
1.0	1.0	1.0	1.0	1.0	1.0	1.0						
5.5	6.0	6.5	7.0	8.5	10.0	11.5						
27.8	28.5	29.2	30.0	30.5	31.0	31.5						
48.5	49.0	49.5	50.0	50.2	50.5	50.8						
69.5	70.0	70.5	71.0	71.0	71.0	71.0						
91.2	91.5	91.8	92.0	92.2	92.5	92.8						
113.2	113.5	113.8	114.0	114.0	114.0	114.0						



REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	1129.1	1129.1	1129.1	1129.1	1129.1	1129.1
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	1004.7	1004.7	1007.9	1020.9	1024.1	1032.2
180.5	180.8	181.0	180.8	180.5	180.2	5°	794.7	801.2	810.9	827.0	836.7	854.5
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	592.8	602.5	610.6	628.4	642.9	660.7
228.5	228.2	228.0	228.0	228.0	228.0	10°	513.7	521.7	533.1	544.4	558.9	567.0
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	457.1	468.4	479.7	495.9	510.4	525.0
277.5	277.2	277.0	277.2	277.5	277.8	15°	387.7	400.6	413.5	431.3	452.3	466.8
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	300.4	315.0	332.8	357.0	379.6	397.4
325.5	325.2	325.0	325.0	325.0	325.0	20°	221.3	234.2	250.4	271.4	287.5	318.2
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	163.1	171.2	184.1	200.3	218.1	245.5
369.5	369.2	369.0	369.0	369.0	369.0	25°	137.3	140.5	145.4	155.1	166.4	185.8
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	127.6	129.2	132.5	137.3	143.8	153.5
412.5	412.2	412.0	412.0	412.0	412.0	30°	134.1	134.1	134.1	135.7	138.9	143.8
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	108.2	109.8	109.8	113.1	114.7	121.1
452.5	452.2	452.0	452.5	453.0	453.5	35°	96.9	98.5	100.1	101.8	105.0	106.6
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	92.1	93.7	95.3	95.3	96.9	100.1
486.0	486.0	486.0	486.2	486.5	486.8	40°	90.5	90.5	90.5	90.5	93.7	96.9
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	87.2	87.2	87.2	88.8	93.7	100.1
517.5	517.2	517.0	517.5	518.0	518.5	45°	87.2	87.2	88.8	95.3	96.9	96.9
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	90.5	93.7	95.3	93.7	92.1	92.1
539.0	539.5	540.0	540.5	541.0	541.5	50°	98.5	96.9	90.5	88.8	88.8	85.6
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	96.9	90.5	88.8	85.6	82.4	80.8
558.5	558.2	558.0	558.5	559.0	559.5	55°	87.2	85.6	80.8	77.5	75.9	77.5
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	75.9	74.3	71.1	71.1	72.7	74.3
567.5	567.2	567.0	567.5	568.0	568.5	60°	66.2	66.2	66.2	67.8	69.5	71.1
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	59.8	61.4	61.4	64.6	66.2	67.8
574.0	574.0	574.0	574.8	575.5	576.2	65°	56.5	58.2	59.8	59.8	61.4	63.0
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	53.3	53.3	54.9	56.5	58.2	59.8
						70°	48.5	50.1	51.7	53.3	53.3	54.9
						72.5°	45.2	45.2	46.8	48.5	48.5	51.7
						75°	38.8	40.4	40.4	40.4	42.0	45.2
						77.5°	33.9	32.3	33.9	33.9	35.5	37.2
						80°	24.2	22.6	22.6	24.2	24.2	24.2
						82.5°	12.9	11.3	12.9	11.3	11.3	12.9
						85°	0.0	0.0	0.0	0.0	0.0	0.0
						87.5°	0.0	0.0	0.0	0.0	0.0	0.0
						90°	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
						95°	1.0	1.0	1.0	1.0	1.0	1.0
						97.5°	13.0	12.0	11.0	10.0	9.0	7.8
						100°	32.0	31.5	31.0	30.5	30.0	28.0
						102.5°	51.0	50.8	50.5	50.2	50.0	48.8
						105°	71.0	70.8	70.5	70.2	70.0	69.0
						107.5°	93.0	92.5	92.0	91.5	91.0	90.2
						110°	114.0	113.5	113.0	112.5	112.0	111.5

REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1129.1	1129.1	1129.1	1129.1	1129.1	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
1030.6	1045.1	1051.6	1090.3	1130.7	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
851.3	880.3	885.2	956.3	1025.7	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
665.5	699.4	709.1	802.8	899.7	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
579.9	596.0	607.4	676.8	788.3	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
537.9	554.0	568.6	625.1	712.3	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
481.4	499.1	516.9	586.4	688.1	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
411.9	436.1	458.7	542.7	676.8	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
334.4	363.4	390.9	495.9	660.7	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
263.3	289.1	319.8	452.3	660.7	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
203.5	229.4	260.1	413.5	678.4	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
166.4	187.4	218.1	382.8	704.3	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
150.2	163.1	182.5	337.6	722.0	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
127.6	137.3	155.1	310.1	733.3	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
113.1	124.4	142.1	292.4	731.7	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
105.0	116.3	137.3	285.9	731.7	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
105.0	116.3	134.1	279.4	736.6	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
103.4	109.8	124.4	276.2	744.7	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
98.5	103.4	117.9	276.2	760.8	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
92.1	98.5	113.1	281.1	791.5	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
87.2	93.7	111.5	281.1	854.5	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
82.4	92.1	109.8	277.8	945.0	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
80.8	88.8	106.6	274.6	1056.4	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
79.1	85.6	98.5	266.5	1145.3	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
75.9	80.8	90.5	252.0	1205.0	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
71.1	75.9	82.4	235.8	1217.9	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
67.8	72.7	82.4	222.9	1138.8	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
63.0	71.1	84.0	211.6	966.0	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
59.8	71.1	85.6	206.8	767.3								
56.5	69.5	87.2	198.7	578.3								
51.7	63.0	75.9	164.8	390.9								
42.0	48.5	56.5	105.0	206.8								
27.5	29.1	32.3	64.6	114.7								
12.9	16.2	16.2	30.7	51.7								
0.0	0.0	0.0	3.2	11.3								
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								
6.5	5.2	4.0	3.0	2.0								
26.0	24.0	22.0	14.0	10.0								
47.5	46.2	45.0	38.0	32.0								
68.0	67.0	66.0	61.0	56.0								
89.5	88.8	88.0	84.0	80.0								
111.0	110.5	110.0	106.0	103.0								

REPORT NUMBER: P228443
 CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	1129.1	1129.1	1129.1
154.5	154.0	151.0	149.0	2.5°	1169.5	1188.9	1198.6
177.5	177.0	174.0	172.0	5°	1106.5	1146.9	1159.8
201.2	201.0	198.0	196.0	7.5°	1011.2	1056.4	1074.2
226.2	226.0	223.0	221.0	10°	915.9	972.4	990.2
251.2	251.0	248.0	247.0	12.5°	859.3	927.2	936.9
274.5	274.0	272.0	270.0	15°	836.7	906.2	925.6
298.2	298.0	294.0	293.0	17.5°	859.3	936.9	956.3
321.2	321.0	318.0	317.0	20°	903.0	998.3	1028.9
345.0	345.0	341.0	339.0	22.5°	977.3	1106.5	1145.3
367.0	367.0	364.0	363.0	25°	1098.4	1277.7	1311.6
388.2	388.0	386.0	385.0	27.5°	1227.6	1413.4	1466.7
410.0	410.0	407.0	408.0	30°	1340.7	1539.4	1583.0
431.2	431.0	428.0	428.0	32.5°	1421.5	1639.5	1689.6
452.2	452.0	448.0	447.0	35°	1516.8	1754.2	1802.7
469.2	469.0	465.0	464.0	37.5°	1626.6	1893.1	1959.4
485.2	485.0	482.0	483.0	40°	1747.8	2036.9	2111.2
503.0	503.0	501.0	502.0	42.5°	1857.6	2171.0	2253.3
519.0	519.0	516.0	517.0	45°	1943.2	2297.0	2361.6
532.0	532.0	529.0	529.0	47.5°	2041.7	2393.9	2466.6
541.0	541.0	538.0	539.0	50°	2177.4	2516.6	2602.3
552.0	552.0	548.0	549.0	52.5°	2376.1	2725.0	2786.4
560.8	561.0	558.0	559.0	55°	2616.8	2977.0	3046.5
566.8	567.0	565.0	566.0	57.5°	2838.1	3211.2	3271.0
568.8	569.0	567.0	569.0	60°	2980.2	3319.4	3369.5
572.0	572.0	569.0	570.0	62.5°	2981.9	3322.7	3385.7
577.8	578.0	574.0	575.0	65°	2863.9	3251.6	3322.7
576.0	576.0	576.0	576.0	67.5°	2565.1	3070.7	3180.5
				70°	2166.1	2715.3	2838.1
				72.5°	1689.6	2133.8	2274.3
				75°	1145.3	1416.6	1539.4
				77.5°	728.5	817.3	857.7
				80°	429.7	483.0	504.0
				82.5°	266.5	287.5	308.5
				85°	108.2	77.5	84.0
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

REPORT NUMBER: P228443

CATALOG NUMBER: ISS-AF-800-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	124.0	124.0	124.0
115°	147.0	146.2	146.0
117.5°	170.0	169.2	169.0
120°	195.0	193.4	193.0
122.5°	220.0	219.2	219.0
125°	246.0	244.4	244.0
127.5°	269.0	267.4	267.0
130°	292.0	290.4	290.0
132.5°	314.0	313.2	313.0
135°	337.0	336.2	336.0
137.5°	360.0	359.2	359.0
140°	383.0	382.2	382.0
142.5°	406.0	404.4	404.0
145°	426.0	425.2	425.0
147.5°	444.0	444.0	444.0
150°	462.0	461.2	461.0
152.5°	480.0	479.2	479.0
155°	500.0	499.2	499.0
157.5°	515.0	513.4	513.0
160°	527.0	525.4	525.0
162.5°	536.0	535.2	535.0
165°	547.0	546.2	546.0
167.5°	556.0	555.2	555.0
170°	563.0	562.2	562.0
172.5°	566.0	565.2	565.0
175°	569.0	567.4	567.0
177.5°	573.0	572.2	572.0
180°	576.0	576.0	576.0

(END OF REPORT)