

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: P228445

Luminaire Tested: **ISS-AF-600-LED-E1-SLL-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228445
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-600-LED-E1-SLL-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT, 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: 4792.7 lumens
Efficiency: N/A
Efficacy: 95.1 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

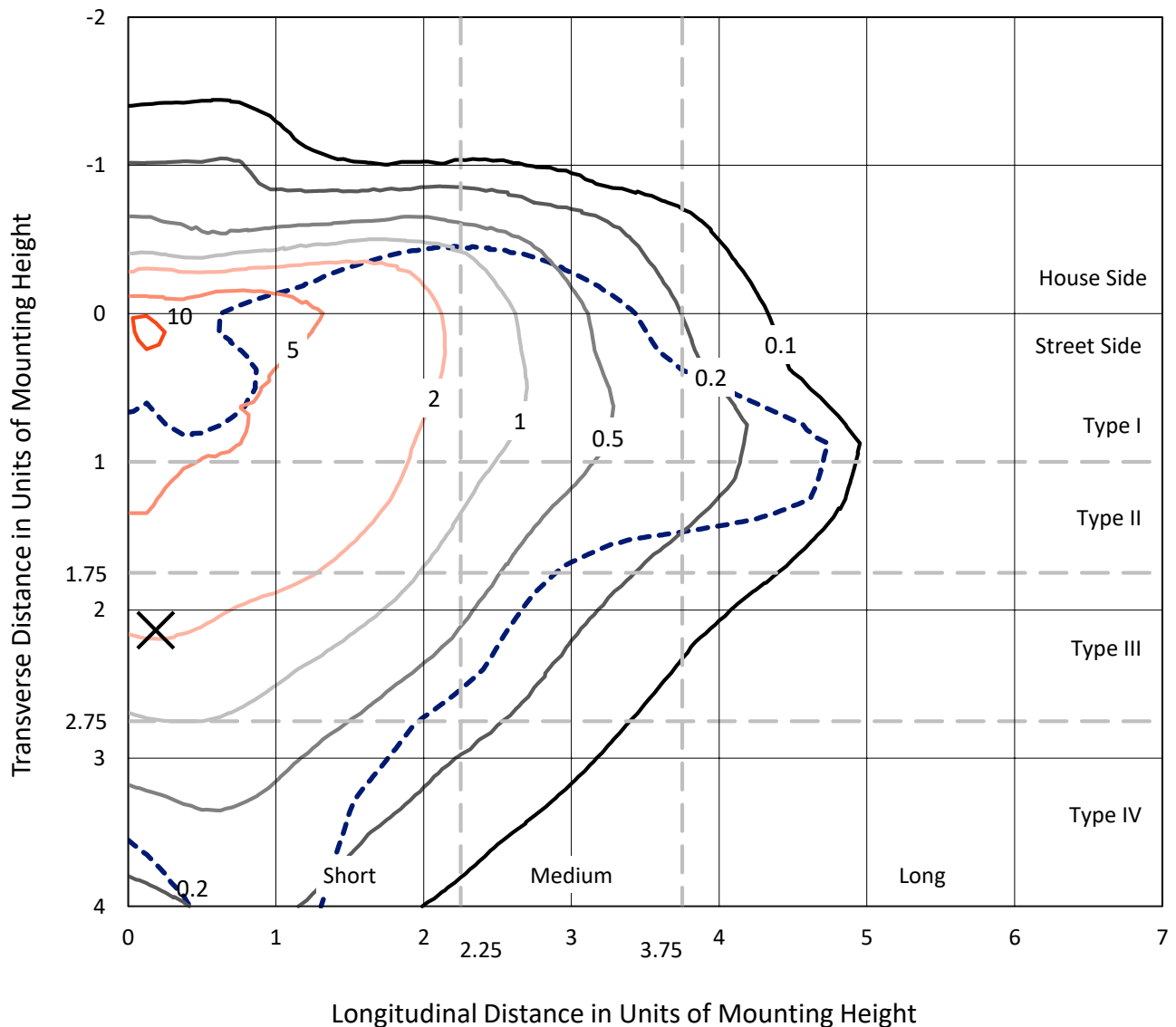
Input Watts (W): 50.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P228445
 CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

Iso-Footcandle Lines of Horizontal Illumination

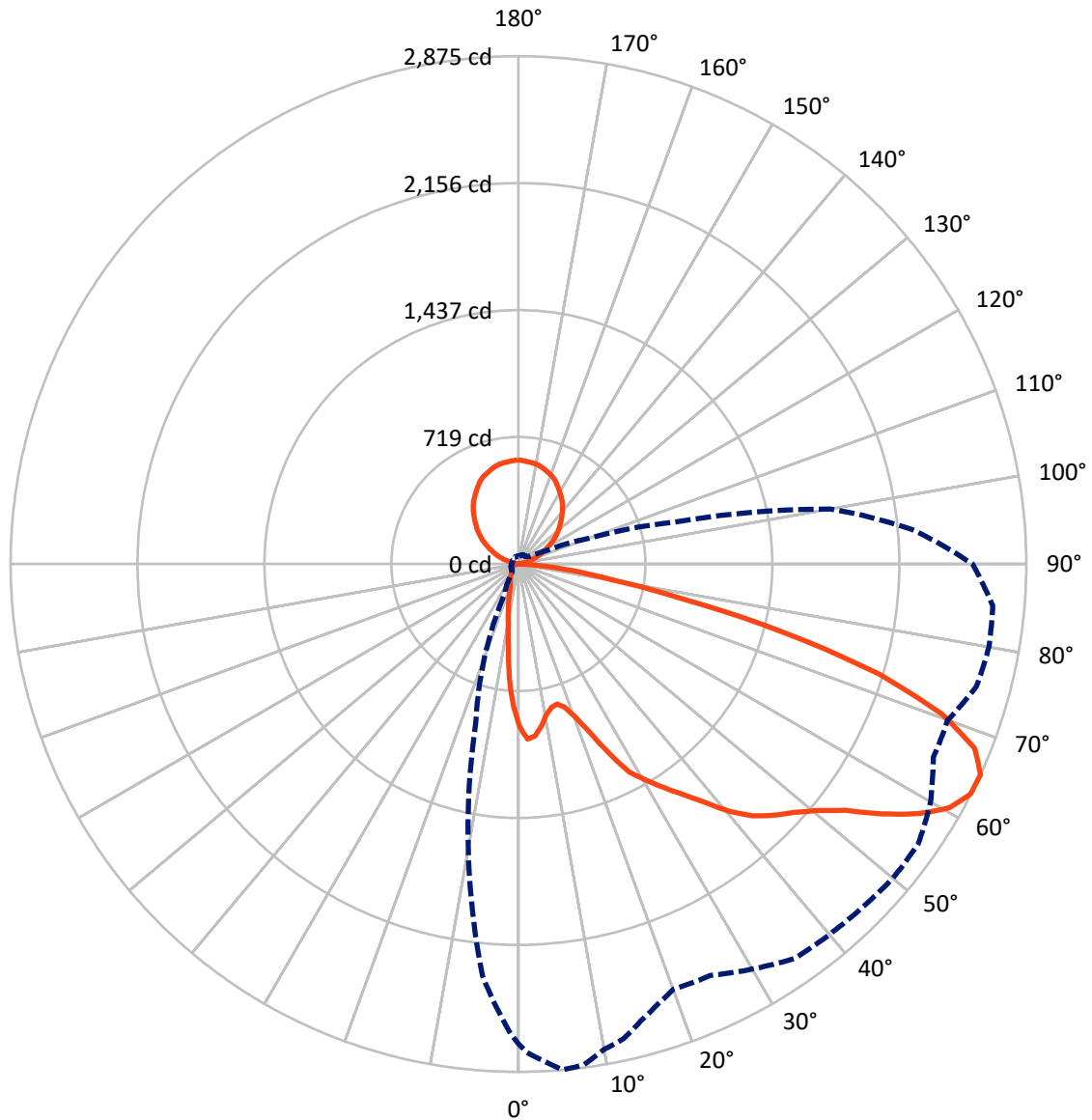
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228445
CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

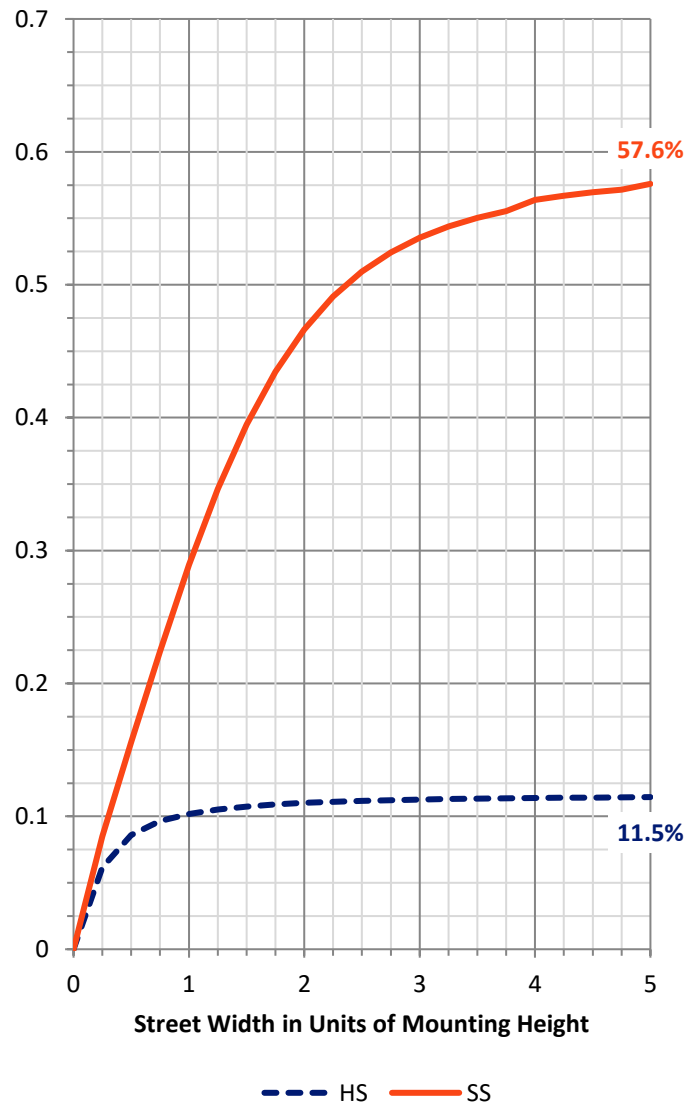
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.3	729.4	1283.8
	% Fixture	11.6	15.2	26.8
Street Side	Lumens	2779.5	729.4	3508.9
	% Fixture	58.0	15.2	73.2
Total	Lumens	3333.8	1458.9	4792.7
	% Fixture	69.6	30.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.5
10°-20°	146.0	3.0
20°-30°	212.2	4.4
30°-40°	313.8	6.5
40°-50°	457.3	9.5
50°-60°	685.5	14.3
60°-70°	854.2	17.8
70°-80°	500.4	10.4
80°-90°	93.6	2.0
90°-100°	4.8	0.1
100°-110°	70.6	1.5
110°-120°	156.6	3.3
120°-130°	229.0	4.8
130°-140°	271.7	5.7
140°-150°	275.5	5.7
150°-160°	236.4	4.9
160°-170°	158.7	3.3
170°-180°	55.6	1.2
0°-90°	3333.8	69.6
0°-180°	4792.7	100.0



REPORT NUMBER: P228445

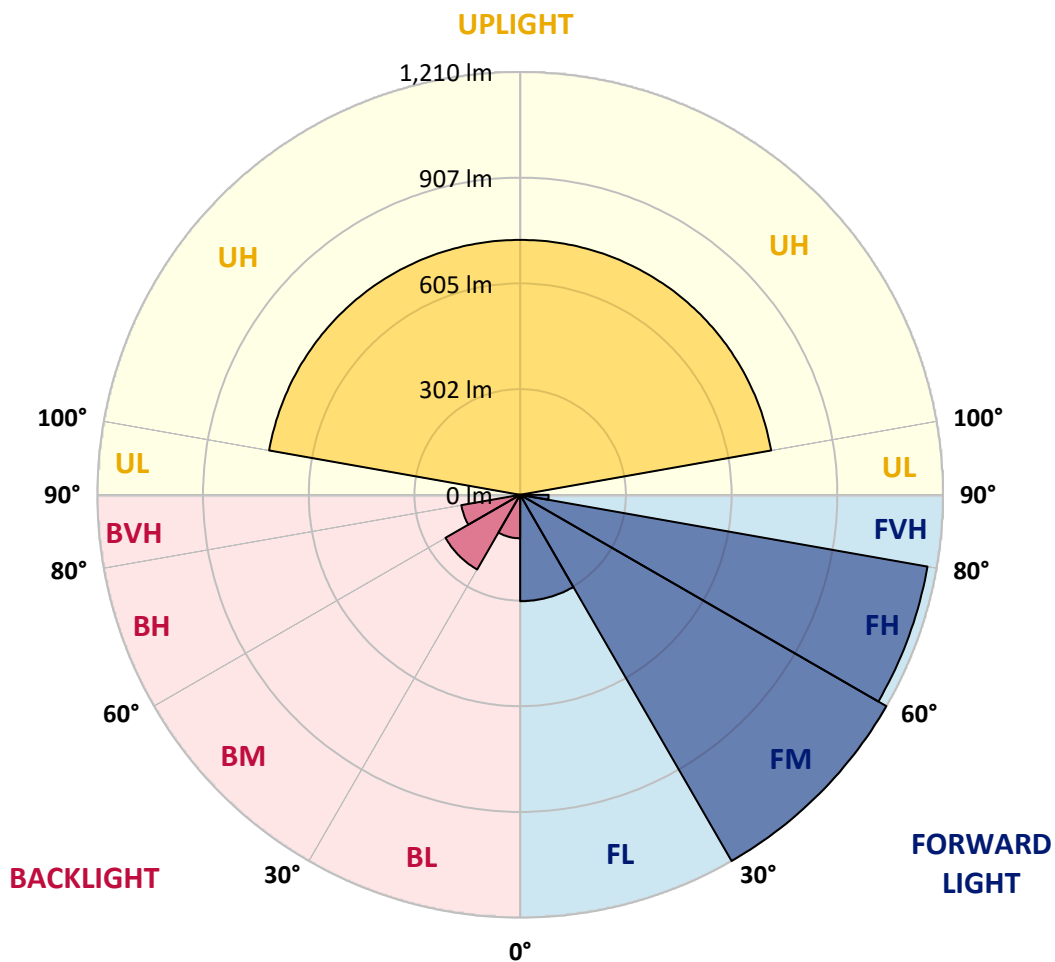
CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.6	6.4			
FM (30°-60°)	1209.9	25.2			
FH (60°-80°)	1183.5	24.7			G1/1800
FVH (80°-90°)	81.5	1.7			G1/100
BL (0°-30°)	124.5	2.6	B1/500		
BM (30°-60°)	246.7	5.1	B1/1000		
BH (60°-80°)	171.1	3.6	B1/500		G1/500
BVH (80°-90°)	12.1	0.3			G1/100
UL (90°-100°)	4.8	0.1		U1/10	
UH (100°-180°)	729.4	15.2		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short



REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
2.5°	979.4	976.7	992.6	995.2	1005.8	1005.8	1017.6	1028.2	1032.2	1041.4	1065.1
5°	947.7	955.6	978.0	1000.4	1016.3	1032.2	1049.3	1070.4	1087.6	1116.7	1177.3
7.5°	877.7	889.6	927.9	950.3	975.4	1003.1	1024.2	1049.3	1075.7	1124.5	1232.8
10°	809.1	818.4	867.2	894.9	930.5	959.5	989.9	1017.6	1046.7	1107.3	1232.8
12.5°	765.6	777.4	832.9	859.3	900.2	930.5	967.5	1000.4	1034.8	1099.5	1220.9
15°	756.3	769.5	822.2	855.3	890.9	919.9	953.0	987.2	1021.6	1084.9	1193.2
17.5°	781.3	797.2	854.0	890.9	918.6	951.7	975.4	1008.4	1030.8	1081.0	1132.4
20°	840.8	859.3	926.6	962.2	984.6	1005.8	1024.2	1044.0	1053.2	1065.1	1055.9
22.5°	935.8	958.2	1034.8	1075.7	1091.5	1107.3	1108.7	1111.3	1104.8	1073.1	1001.8
25°	1071.7	1094.1	1181.3	1220.9	1220.9	1220.9	1206.4	1195.8	1165.4	1106.0	987.2
27.5°	1198.5	1227.4	1331.8	1356.8	1348.9	1337.0	1309.3	1282.9	1239.4	1140.4	985.9
30°	1293.5	1322.5	1418.8	1438.7	1418.8	1389.8	1346.3	1308.0	1256.5	1157.6	995.2
32.5°	1380.6	1414.9	1507.3	1510.0	1474.3	1441.3	1392.4	1348.9	1294.7	1189.2	1023.0
35°	1472.9	1507.3	1601.0	1582.5	1531.1	1486.1	1436.0	1397.8	1343.6	1230.1	1067.8
37.5°	1601.0	1631.4	1710.6	1667.0	1601.0	1542.9	1488.8	1438.7	1384.6	1285.5	1143.0
40°	1725.1	1768.7	1841.2	1771.2	1690.7	1612.9	1553.5	1500.7	1441.3	1360.8	1239.4
42.5°	1841.2	1882.1	1949.4	1859.7	1766.0	1688.1	1626.1	1569.3	1512.5	1446.6	1355.5
45°	1929.7	1971.9	2028.6	1933.6	1826.7	1746.2	1678.9	1628.7	1578.6	1533.7	1502.0
47.5°	2015.4	2057.7	2101.2	1998.3	1892.7	1810.8	1731.7	1685.5	1645.9	1622.1	1660.5
50°	2126.3	2155.4	2192.3	2081.4	1969.3	1875.6	1796.3	1760.7	1723.8	1731.7	1859.7
52.5°	2276.8	2301.8	2315.0	2206.8	2081.4	1974.5	1887.4	1838.5	1808.3	1854.4	2070.9
55°	2489.2	2524.9	2495.9	2389.0	2230.5	2109.1	2002.2	1944.2	1925.7	1987.7	2282.1
57.5°	2672.8	2688.6	2667.4	2561.9	2399.5	2263.6	2150.0	2089.4	2068.2	2150.0	2474.7
60°	2753.3	2773.0	2802.1	2711.0	2559.2	2424.6	2326.9	2267.6	2231.9	2326.9	2629.2
62.5°	2766.5	2799.4	2870.7	2824.6	2704.4	2604.1	2515.6	2433.8	2406.2	2478.7	2730.9
65°	2715.0	2765.1	2874.7	2857.5	2790.2	2751.9	2678.0	2614.7	2561.9	2569.8	2725.6
67.5°	2598.8	2656.9	2785.0	2777.0	2785.0	2785.0	2720.2	2667.4	2598.8	2501.1	2524.9
70°	2319.0	2395.5	2543.4	2581.7	2649.0	2649.0	2592.3	2511.8	2432.6	2231.9	2110.4
72.5°	1858.4	1909.8	2136.8	2323.0	2408.7	2374.5	2319.0	2184.4	2010.2	1789.8	1624.8
75°	1257.8	1288.2	1566.6	1907.2	2063.0	2033.9	1942.9	1775.2	1595.7	1350.2	1141.7
77.5°	700.8	740.4	949.0	1215.6	1425.5	1421.5	1409.6	1302.7	1160.1	956.9	848.6
80°	411.8	425.0	534.6	728.5	909.4	865.8	835.4	751.1	678.4	586.0	669.2
82.5°	252.1	238.9	303.6	443.4	537.2	518.7	467.3	435.6	401.2	376.1	444.8
85°	68.6	62.0	124.1	186.1	228.3	246.8	246.8	244.2	219.1	165.0	197.9
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	2.3	2.6	3.1	4.1
100°	8.2	8.2	8.2	8.7	9.2	9.7	10.2	11.3	12.3	14.3	22.5
102.5°	28.6	28.6	28.6	29.7	30.7	31.7	32.7	34.3	35.8	38.9	46.0
105°	55.2	55.2	55.2	55.8	56.3	56.8	57.3	58.5	59.8	62.4	67.5
107.5°	79.8	79.6	78.8	79.6	80.3	81.0	81.8	82.9	83.9	85.9	90.0
110°	103.3	103.5	104.3	104.5	104.9	105.2	105.4	106.2	106.9	108.4	112.5



REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
112.5°	126.8	126.8	126.8	127.4	127.9	128.4	128.9	129.7	130.4	132.0	135.0
115°	149.4	149.6	150.4	150.9	151.4	151.9	152.4	152.9	153.4	154.5	157.5
117.5°	172.9	173.1	173.9	174.4	174.9	175.4	175.9	176.5	177.0	178.0	181.1
120°	197.4	197.8	199.5	199.7	200.0	200.3	200.5	201.0	201.5	202.5	205.6
122.5°	224.0	224.2	225.0	225.3	225.6	225.9	226.1	226.6	227.1	228.1	231.2
125°	249.6	250.0	251.6	251.9	252.2	252.5	252.7	252.9	253.2	253.7	256.8
127.5°	273.1	273.5	275.2	275.4	275.7	276.0	276.2	276.7	277.2	278.2	280.3
130°	296.7	297.1	298.7	298.9	299.2	299.5	299.7	299.9	300.2	300.7	304.8
132.5°	320.2	320.4	321.2	322.0	322.7	323.5	324.3	324.5	324.8	325.3	328.4
135°	343.7	343.9	344.7	345.2	345.8	346.3	346.8	347.3	347.8	348.8	352.9
137.5°	367.2	367.4	368.3	369.1	369.8	370.5	371.3	371.5	371.8	372.4	375.4
140°	390.8	391.0	391.8	392.3	392.8	393.3	393.8	394.0	394.3	394.9	396.9
142.5°	413.3	413.7	415.3	415.8	416.3	416.9	417.4	417.2	416.9	416.3	419.4
145°	434.8	435.0	435.8	436.3	436.8	437.3	437.8	437.8	437.8	437.8	440.9
147.5°	454.2	454.2	454.2	455.0	455.7	456.4	457.3	457.5	457.8	458.3	462.4
150°	471.6	471.8	472.6	473.1	473.6	474.1	474.6	474.9	475.2	475.7	479.8
152.5°	490.0	490.2	491.0	491.8	492.6	493.3	494.1	493.9	493.6	493.1	496.1
155°	510.5	510.7	511.5	512.0	512.5	513.0	513.5	513.3	513.0	512.5	514.5
157.5°	524.8	525.2	526.8	527.3	527.8	528.4	528.9	528.7	528.4	527.8	530.9
160°	537.0	537.5	539.1	539.6	540.1	540.6	541.1	541.1	541.1	541.1	544.2
162.5°	547.3	547.5	548.3	549.1	549.8	550.6	551.4	551.2	550.9	550.3	553.4
165°	558.5	558.7	559.6	560.1	560.6	561.1	561.6	561.4	561.1	560.6	564.7
167.5°	567.7	567.9	568.8	569.6	570.3	571.0	571.8	571.6	571.3	570.8	573.9
170°	574.9	575.1	575.9	576.7	577.5	578.2	579.0	578.8	578.5	578.0	580.0
172.5°	578.0	578.2	579.0	579.8	580.5	581.2	582.1	581.5	581.0	580.0	582.1
175°	580.0	580.4	582.1	582.3	582.6	582.9	583.1	582.9	582.6	582.1	585.1
177.5°	585.1	585.3	586.2	586.7	587.2	587.7	588.2	588.0	587.7	587.2	591.3
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: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
2.5°	1074.4	1075.7	1071.7	1081.0	1070.4	1065.1	1049.3	1049.3	1036.1	1025.5	1013.6
5°	1199.7	1207.7	1201.0	1202.4	1181.3	1160.1	1128.5	1110.0	1077.1	1041.4	1004.4
7.5°	1284.2	1297.4	1292.2	1269.7	1236.7	1191.8	1139.1	1088.9	1034.8	976.7	922.6
10°	1306.7	1321.2	1309.3	1267.1	1213.0	1149.6	1086.3	1019.0	953.0	890.9	832.9
12.5°	1275.0	1285.5	1260.5	1214.2	1161.5	1098.1	1032.2	974.1	896.2	830.2	762.9
15°	1194.5	1187.9	1185.3	1152.3	1115.3	1063.9	1001.8	942.3	869.8	802.5	731.2
17.5°	1107.3	1099.5	1102.1	1088.9	1083.6	1059.9	1013.6	963.5	898.9	817.0	740.4
20°	1030.8	1023.0	1026.8	1033.5	1053.2	1054.6	1046.7	1013.6	966.2	880.4	786.6
22.5°	964.8	966.2	979.4	997.8	1030.8	1073.1	1106.0	1112.7	1079.6	979.4	861.8
25°	945.0	938.5	953.0	983.3	1038.7	1120.5	1194.5	1231.4	1213.0	1112.7	968.8
27.5°	938.5	929.1	945.0	984.6	1073.1	1187.9	1293.5	1348.9	1355.5	1252.6	1083.6
30°	938.5	934.5	950.3	1001.8	1095.5	1210.4	1327.8	1411.0	1437.3	1351.5	1184.0
32.5°	950.3	953.0	980.7	1046.7	1143.0	1260.5	1381.9	1471.6	1519.2	1454.5	1264.5
35°	976.7	982.0	1021.6	1098.1	1202.4	1321.2	1432.0	1523.2	1599.7	1565.4	1339.7
37.5°	1033.5	1041.4	1090.3	1168.1	1263.1	1370.0	1478.3	1576.0	1686.8	1672.3	1418.8
40°	1133.7	1133.7	1182.6	1249.9	1327.8	1409.6	1516.5	1631.4	1767.4	1787.1	1516.5
42.5°	1260.5	1255.2	1286.9	1335.7	1389.8	1458.4	1554.8	1682.9	1842.5	1886.1	1590.5
45°	1434.7	1408.3	1425.5	1437.3	1463.7	1506.0	1591.8	1731.7	1903.3	1960.0	1645.9
47.5°	1639.3	1602.4	1587.8	1565.4	1556.1	1572.0	1645.9	1769.9	1961.3	2023.4	1735.6
50°	1864.9	1829.3	1791.1	1730.3	1677.5	1661.7	1706.6	1821.5	2023.4	2102.6	1834.7
52.5°	2099.9	2074.9	2024.7	1929.7	1829.3	1772.6	1793.7	1907.2	2122.3	2225.3	1952.1
55°	2315.0	2323.0	2262.3	2151.4	2007.5	1920.4	1945.4	2059.0	2301.8	2423.3	2148.7
57.5°	2546.0	2524.9	2477.4	2362.6	2205.5	2111.8	2122.3	2259.6	2502.4	2594.9	2344.1
60°	2699.2	2699.2	2647.7	2560.5	2411.4	2324.3	2340.1	2466.8	2663.6	2672.8	2431.2
62.5°	2798.2	2812.7	2771.8	2709.7	2564.5	2491.9	2546.0	2635.8	2742.7	2666.1	2387.7
65°	2750.6	2766.5	2762.5	2693.8	2590.9	2585.6	2683.3	2704.4	2695.2	2569.8	2237.2
67.5°	2535.5	2503.8	2502.4	2466.8	2445.8	2555.2	2679.3	2686.0	2530.2	2381.0	1999.6
70°	2126.3	2072.2	2051.1	2061.7	2158.0	2362.6	2539.5	2489.2	2241.2	2113.1	1702.6
72.5°	1639.3	1574.6	1561.4	1602.4	1751.5	2039.3	2280.8	2210.8	1842.5	1693.4	1318.6
75°	1162.8	1135.1	1136.4	1216.9	1377.9	1655.1	1936.2	1929.7	1364.7	1168.1	908.1
77.5°	846.1	851.3	875.0	906.7	1045.4	1313.3	1577.3	1560.1	971.4	802.5	634.8
80°	698.2	706.1	706.1	689.0	724.7	867.2	1071.7	1144.4	650.7	539.8	443.4
82.5°	501.6	541.1	563.5	535.8	522.6	571.5	671.8	719.3	405.2	340.5	310.2
85°	238.9	273.2	281.1	274.6	315.5	360.3	384.1	393.3	221.8	158.4	203.3
87.5°	0.0	0.0	1.3	10.5	29.1	50.1	50.1	76.5	11.9	4.0	9.2
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°	9.2	11.3	13.3	10.2	7.2	6.1	5.1	4.6	4.1	4.1	4.1
100°	30.7	31.7	32.7	31.7	30.7	29.2	27.6	27.1	26.6	25.6	26.6
102.5°	51.1	51.7	52.2	51.7	51.1	50.1	49.1	49.6	50.1	49.1	50.1
105°	71.6	72.1	72.6	72.6	72.6	71.6	70.6	71.6	72.6	70.6	72.6
107.5°	93.1	94.1	95.1	94.6	94.1	93.6	93.1	93.6	94.1	93.1	94.1
110°	114.6	115.6	116.6	116.6	116.6	116.1	115.6	116.1	116.6	115.6	116.6



REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
112.5°	137.1	138.1	139.1	139.1	139.1	138.6	138.1	139.1	140.1	138.1	140.1
115°	159.6	160.6	161.6	161.6	161.6	161.6	161.6	162.6	163.7	162.6	163.7
117.5°	183.1	183.6	184.1	184.6	185.2	184.6	184.1	185.2	186.2	184.1	186.2
120°	206.6	207.7	208.7	208.7	208.7	208.7	208.7	209.7	210.7	208.7	210.7
122.5°	232.2	232.7	233.2	233.2	233.2	233.7	234.3	236.3	238.3	237.3	238.3
125°	257.8	258.3	258.8	259.3	259.8	259.8	259.8	261.4	262.9	261.9	262.9
127.5°	282.3	283.4	284.4	283.9	283.4	283.9	284.4	285.9	287.4	284.4	287.4
130°	305.9	306.9	307.9	307.9	307.9	308.4	308.9	310.5	312.0	310.0	312.0
132.5°	329.4	330.9	332.5	332.5	332.5	333.0	333.5	335.0	336.6	334.5	336.6
135°	352.9	354.5	356.0	356.0	356.0	356.5	357.0	358.0	359.1	358.0	359.1
137.5°	375.4	376.4	377.5	377.5	377.5	378.0	378.5	380.5	382.6	380.5	382.6
140°	397.9	398.4	399.0	399.0	399.0	400.0	401.0	403.0	405.1	403.0	405.1
142.5°	419.4	420.4	421.5	421.5	421.5	422.0	422.5	424.0	425.5	424.5	425.5
145°	441.9	442.9	444.0	443.4	442.9	443.4	444.0	445.5	447.0	445.0	447.0
147.5°	463.4	463.9	464.4	463.4	462.4	462.9	463.4	464.9	466.5	463.4	466.5
150°	480.8	481.3	481.8	480.8	479.8	479.8	479.8	481.8	483.9	480.8	483.9
152.5°	497.2	497.7	498.2	497.7	497.2	497.2	497.2	498.7	500.2	497.2	500.2
155°	514.5	515.1	515.6	515.1	514.5	515.1	515.6	517.1	518.6	516.6	518.6
157.5°	530.9	530.9	530.9	529.9	528.9	529.4	529.9	532.4	535.0	531.9	535.0
160°	544.2	544.2	544.2	543.2	542.2	542.2	542.2	543.7	545.2	543.2	545.2
162.5°	553.4	553.9	554.4	553.4	552.4	551.4	550.3	551.4	552.4	549.3	552.4
165°	564.7	565.2	565.7	564.2	562.6	561.6	560.6	561.6	562.6	560.6	562.6
167.5°	572.9	572.9	572.9	571.8	570.8	571.3	571.8	573.9	575.9	573.9	575.9
170°	579.0	578.5	578.0	577.5	576.9	578.0	579.0	581.5	584.1	582.1	584.1
172.5°	581.0	581.5	582.1	581.0	580.0	580.5	581.0	582.6	584.1	581.0	584.1
175°	585.1	585.6	586.2	584.6	583.1	582.1	581.0	582.6	584.1	581.0	584.1
177.5°	590.2	590.2	590.2	588.7	587.2	587.2	587.2	588.7	590.2	587.2	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: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
2.5°	997.8	980.7	967.5	951.7	938.5	925.3	916.0	896.2	880.4	844.8	835.4
5°	974.1	937.1	912.1	888.2	857.9	836.8	814.4	786.6	756.3	704.8	689.0
7.5°	880.4	834.1	799.8	765.6	725.9	690.3	657.3	620.3	567.5	512.1	491.0
10°	778.8	729.9	682.4	641.5	593.9	554.3	525.3	498.9	456.6	414.4	386.7
12.5°	695.6	640.2	586.0	545.1	520.1	500.2	479.2	458.0	413.2	365.6	332.6
15°	657.3	592.6	545.1	510.8	488.4	464.6	439.6	415.7	362.9	307.5	267.9
17.5°	662.6	588.7	527.9	481.7	451.4	418.4	389.3	359.1	301.0	235.0	199.3
20°	691.6	592.6	509.4	455.3	411.8	369.6	332.6	294.3	223.1	171.5	146.5
22.5°	728.5	605.8	498.9	428.9	374.8	322.0	274.6	229.7	165.0	134.6	122.8
25°	792.0	636.2	496.2	405.2	339.2	275.9	227.0	179.5	133.3	118.8	112.2
27.5°	871.1	670.5	498.9	388.0	308.8	238.9	184.7	149.1	120.1	112.2	106.9
30°	950.3	706.1	487.0	361.6	273.2	204.6	158.4	136.0	118.8	109.6	100.4
32.5°	1020.3	732.5	467.3	333.9	241.5	174.2	134.6	116.1	104.2	93.7	91.0
35°	1070.4	744.4	444.8	316.8	220.4	155.8	118.8	104.2	92.4	81.8	76.5
37.5°	1118.0	745.7	421.0	301.0	212.5	147.8	109.6	96.4	85.8	76.5	71.3
40°	1166.8	740.4	407.9	285.1	200.6	143.8	105.6	89.7	83.2	72.6	67.3
42.5°	1202.4	731.2	402.5	275.9	190.1	133.3	102.9	88.4	79.2	71.3	64.7
45°	1235.4	722.0	402.5	267.9	182.2	126.7	97.7	89.7	76.5	70.0	62.0
47.5°	1275.0	725.9	403.9	261.4	175.5	120.1	92.4	87.2	77.8	68.6	60.8
50°	1342.3	770.8	410.5	257.4	170.2	114.9	88.4	83.2	85.8	67.3	59.4
52.5°	1458.4	842.1	421.0	254.7	165.0	110.9	83.2	80.5	87.2	67.3	58.1
55°	1610.2	914.7	431.6	248.2	157.0	102.9	80.5	75.2	80.5	67.3	56.8
57.5°	1758.0	968.8	440.8	238.9	143.8	95.0	76.5	71.3	74.0	66.0	54.1
60°	1843.9	1011.0	450.1	223.1	128.1	85.8	72.6	67.3	66.0	66.0	52.8
62.5°	1867.6	995.2	444.8	203.3	114.9	79.2	68.6	63.3	59.4	67.3	52.8
65°	1792.4	912.1	425.0	186.1	105.6	76.5	64.7	60.8	56.8	58.1	50.1
67.5°	1561.4	766.8	370.9	170.2	104.2	75.2	62.0	58.1	52.8	51.5	47.5
70°	1273.7	601.9	307.5	158.4	102.9	75.2	59.4	54.1	50.1	46.2	43.6
72.5°	979.4	450.1	258.7	153.1	104.2	74.0	55.4	48.8	44.9	42.2	39.6
75°	689.0	318.1	215.1	137.3	97.7	70.0	51.5	43.6	39.6	36.9	34.3
77.5°	498.9	216.5	159.7	110.9	83.2	60.8	44.9	36.9	33.0	31.7	29.1
80°	318.1	133.3	106.9	81.8	60.8	47.5	34.3	29.1	26.4	23.7	22.4
82.5°	183.4	77.8	64.7	55.4	39.6	31.7	25.1	22.4	17.2	15.9	14.5
85°	112.2	48.8	35.6	29.1	25.1	19.8	14.5	13.2	9.2	7.9	6.6
87.5°	25.1	10.5	9.2	6.6	7.9	6.6	4.0	2.7	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°	4.6	5.1	6.1	7.2	10.2	13.3	11.3	9.2	4.1	3.1	2.0
100°	27.1	27.6	29.2	30.7	31.7	32.7	31.7	30.7	22.5	14.3	10.2
102.5°	49.6	49.1	50.1	51.1	51.7	52.2	51.7	51.1	46.0	38.9	32.7
105°	71.6	70.6	71.6	72.6	72.6	72.6	72.1	71.6	67.5	62.4	57.3
107.5°	93.6	93.1	93.6	94.1	94.6	95.1	94.1	93.1	90.0	85.9	81.8
110°	116.1	115.6	116.1	116.6	116.6	116.6	115.6	114.6	112.5	108.4	105.4



REPORT NUMBER: P228445
 CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°	
112.5°	139.1	138.1	138.6	139.1	139.1	139.1	138.1	137.1	135.0	132.0	128.9	0°
115°	162.6	161.6	161.6	161.6	161.6	161.6	160.6	159.6	157.5	154.5	152.4	2.5°
117.5°	185.2	184.1	184.6	185.2	184.6	184.1	183.6	183.1	181.1	178.0	175.9	5°
120°	209.7	208.7	208.7	208.7	208.7	208.7	207.7	206.6	205.6	202.5	200.5	7.5°
122.5°	236.3	234.3	233.7	233.2	233.2	233.2	232.7	232.2	231.2	228.1	226.1	10°
125°	261.4	259.8	259.8	259.8	259.3	258.8	258.3	257.8	256.8	253.7	252.7	12.5°
127.5°	285.9	284.4	283.9	283.4	283.9	284.4	283.4	282.3	280.3	278.2	276.2	15°
130°	310.5	308.9	308.4	307.9	307.9	307.9	306.9	305.9	304.8	300.7	299.7	17.5°
132.5°	335.0	333.5	333.0	332.5	332.5	332.5	330.9	329.4	328.4	325.3	324.3	20°
135°	358.0	357.0	356.5	356.0	356.0	356.0	354.5	352.9	352.9	348.8	346.8	22.5°
137.5°	380.5	378.5	378.0	377.5	377.5	377.5	376.4	375.4	375.4	372.4	371.3	25°
140°	403.0	401.0	400.0	399.0	399.0	399.0	398.4	397.9	396.9	394.9	393.8	27.5°
142.5°	424.0	422.5	422.0	421.5	421.5	421.5	420.4	419.4	419.4	416.3	417.4	30°
145°	445.5	444.0	443.4	442.9	443.4	444.0	442.9	441.9	440.9	437.8	437.8	32.5°
147.5°	464.9	463.4	462.9	462.4	463.4	464.4	463.9	463.4	462.4	458.3	457.3	35°
150°	481.8	479.8	479.8	479.8	480.8	481.8	481.3	480.8	479.8	475.7	474.6	37.5°
152.5°	498.7	497.2	497.2	497.2	497.7	498.2	497.7	497.2	496.1	493.1	494.1	40°
155°	517.1	515.6	515.1	514.5	515.1	515.6	515.1	514.5	514.5	512.5	513.5	42.5°
157.5°	532.4	529.9	529.4	528.9	529.9	530.9	530.9	530.9	530.9	527.8	528.9	45°
160°	543.7	542.2	542.2	542.2	543.2	544.2	544.2	544.2	544.2	541.1	541.1	47.5°
162.5°	551.4	550.3	551.4	552.4	553.4	554.4	553.9	553.4	553.4	550.3	551.4	50°
165°	561.6	560.6	561.6	562.6	564.2	565.7	565.2	564.7	564.7	560.6	561.6	52.5°
167.5°	573.9	571.8	571.3	570.8	571.8	572.9	572.9	572.9	573.9	570.8	571.8	55°
170°	581.5	579.0	578.0	576.9	577.5	578.0	578.5	579.0	580.0	578.0	579.0	57.5°
172.5°	582.6	581.0	580.5	580.0	581.0	582.1	581.5	581.0	582.1	580.0	582.1	60°
175°	582.6	581.0	582.1	583.1	584.6	586.2	585.6	585.1	585.1	582.1	583.1	62.5°
177.5°	588.7	587.2	587.2	587.2	588.7	590.2	590.2	590.2	591.3	587.2	588.2	65°
180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	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: P228445
 NUMBER: ISS-AF-600-LED-E1-SLL-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	112.5°	126.8
820.9	801.2	802.5	798.5	788.0	770.8	765.6	756.3	757.6	762.9	757.6	115°	150.4
670.5	646.7	649.4	648.0	637.5	625.6	616.4	604.5	600.6	604.5	597.9	117.5°	173.9
475.2	459.3	464.6	476.5	475.2	468.5	460.6	447.4	444.8	446.1	434.2	120°	199.5
362.9	347.1	343.2	341.9	339.2	335.2	324.7	314.1	310.2	311.5	303.6	122.5°	225.0
303.6	290.4	274.6	260.0	246.8	241.5	228.3	221.8	220.4	220.4	216.5	125°	251.6
240.2	229.7	220.4	205.9	195.4	187.4	178.2	172.9	171.5	172.9	172.9	127.5°	275.2
179.5	174.2	170.2	169.0	163.7	158.4	153.1	150.5	149.1	149.1	150.5	130°	298.7
137.3	136.0	136.0	136.0	142.5	147.8	149.1	145.2	143.8	142.5	141.3	132.5°	321.2
118.8	117.4	118.8	126.7	122.8	118.8	118.8	118.8	118.8	118.8	120.1	135°	344.7
109.6	110.9	112.2	108.2	104.2	101.7	100.4	100.4	99.0	99.0	100.4	137.5°	368.3
104.2	102.9	101.7	99.0	96.4	92.4	91.0	89.7	89.7	89.7	89.7	140°	391.8
97.7	96.4	95.0	92.4	88.4	83.2	81.8	81.8	80.5	81.8	81.8	142.5°	415.3
89.7	88.4	87.2	84.5	80.5	77.8	76.5	74.0	74.0	74.0	75.2	145°	435.8
72.6	71.3	71.3	72.6	72.6	71.3	71.3	68.6	68.6	68.6	68.6	147.5°	454.2
67.3	66.0	66.0	64.7	66.0	67.3	66.0	64.7	64.7	63.3	63.3	150°	472.6
63.3	63.3	62.0	60.8	60.8	63.3	62.0	60.8	59.4	59.4	59.4	152.5°	491.0
60.8	59.4	59.4	58.1	58.1	58.1	56.8	55.4	54.1	54.1	54.1	155°	511.5
58.1	58.1	56.8	55.4	54.1	54.1	51.5	50.1	50.1	50.1	51.5	157.5°	526.8
56.8	55.4	55.4	54.1	52.8	50.1	48.8	47.5	47.5	47.5	47.5	160°	539.1
55.4	54.1	52.8	52.8	50.1	48.8	47.5	46.2	46.2	46.2	46.2	162.5°	548.3
54.1	52.8	51.5	50.1	48.8	47.5	46.2	44.9	44.9	44.9	44.9	165°	559.6
51.5	50.1	50.1	48.8	48.8	47.5	46.2	44.9	44.9	44.9	43.6	167.5°	568.8
50.1	48.8	47.5	47.5	47.5	46.2	44.9	43.6	43.6	43.6	43.6	170°	575.9
48.8	47.5	47.5	46.2	46.2	44.9	44.9	43.6	42.2	42.2	40.9	172.5°	579.0
47.5	46.2	46.2	44.9	46.2	44.9	43.6	42.2	40.9	40.9	39.6	175°	582.1
46.2	44.9	44.9	44.9	43.6	43.6	42.2	39.6	39.6	39.6	38.3	177.5°	586.2
43.6	42.2	42.2	43.6	42.2	40.9	40.9	38.3	38.3	36.9	36.9	180°	589.2
39.6	39.6	39.6	40.9	39.6	38.3	38.3	36.9	35.6	34.3	34.3		
36.9	35.6	36.9	36.9	36.9	35.6	36.9	34.3	33.0	31.7	31.7		
31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	30.4	29.1	27.7		
25.1	26.4	26.4	26.4	26.4	27.7	26.4	26.4	26.4	25.1	23.7		
18.5	18.5	19.8	21.1	19.8	21.1	19.8	21.1	19.8	19.8	19.8		
10.5	10.5	11.9	13.2	13.2	14.5	11.9	13.2	13.2	14.5	13.2		
4.0	4.0	4.0	4.0	5.3	5.3	4.0	5.3	5.3	6.6	6.6		
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	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	3.1	4.1	9.2	11.3	12.3	13.3	11.8		
8.2	8.2	8.2	10.2	14.3	22.5	30.7	31.7	32.2	32.7	32.2		
28.6	28.6	28.6	32.7	38.9	46.0	51.1	51.7	52.0	52.2	52.0		
55.2	55.2	55.2	57.3	62.4	67.5	71.6	72.1	72.4	72.6	72.6		
78.8	79.8	78.8	81.8	85.9	90.0	93.1	94.1	94.6	95.1	94.9		
104.3	103.3	104.3	105.4	108.4	112.5	114.6	115.6	116.1	116.6	116.6		

'228445
 ISS-AF-600-LED-E1-SLL-ULG

REPORT NUMBER: P228445
 CATALOG NUMBER: ISS-AF-600

TION (continued):

CANDELA DISTRIBUTION (con

180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°		240°	242.5°
126.8	126.8	128.9	132.0	135.0	137.1	138.1	138.6	139.1	139.1	0°	922.6	922.6
149.4	150.4	152.4	154.5	157.5	159.6	160.6	161.1	161.6	161.6	2.5°	768.1	768.1
172.9	173.9	175.9	178.0	181.1	183.1	183.6	183.9	184.1	184.3	5°	603.2	601.9
197.4	199.5	200.5	202.5	205.6	206.6	207.7	208.2	208.7	208.7	7.5°	438.2	434.2
224.0	225.0	226.1	228.1	231.2	232.2	232.7	233.0	233.2	233.2	10°	306.2	295.6
249.6	251.6	252.7	253.7	256.8	257.8	258.3	258.6	258.8	259.0	12.5°	221.8	217.8
273.1	275.2	276.2	278.2	280.3	282.3	283.4	283.9	284.4	284.2	15°	175.5	175.5
296.7	298.7	299.7	300.7	304.8	305.9	306.9	307.4	307.9	307.9	17.5°	151.8	151.8
320.2	321.2	324.3	325.3	328.4	329.4	330.9	331.6	332.5	332.5	20°	139.9	138.6
343.7	344.7	346.8	348.8	352.9	352.9	354.5	355.2	356.0	356.0	22.5°	120.1	118.8
367.2	368.3	371.3	372.4	375.4	375.4	376.4	377.0	377.5	377.5	25°	99.0	99.0
390.8	391.8	393.8	394.9	396.9	397.9	398.4	398.7	399.0	399.0	27.5°	89.7	89.7
413.3	415.3	417.4	416.3	419.4	419.4	420.4	420.9	421.5	421.5	30°	81.8	83.2
434.8	435.8	437.8	437.8	440.9	441.9	442.9	443.4	444.0	443.8	32.5°	75.2	75.2
454.2	454.2	457.3	458.3	462.4	463.4	463.9	464.2	464.4	463.9	35°	67.3	67.3
471.6	472.6	474.6	475.7	479.8	480.8	481.3	481.6	481.8	481.3	37.5°	62.0	60.8
490.0	491.0	494.1	493.1	496.1	497.2	497.7	498.0	498.2	498.0	40°	56.8	56.8
510.5	511.5	513.5	512.5	514.5	514.5	515.1	515.4	515.6	515.4	42.5°	52.8	52.8
524.8	526.8	528.9	527.8	530.9	530.9	530.9	530.9	530.9	530.4	45°	50.1	50.1
537.0	539.1	541.1	541.1	544.2	544.2	544.2	544.2	544.2	543.7	47.5°	48.8	48.8
547.3	548.3	551.4	550.3	553.4	553.4	553.9	554.2	554.4	553.9	50°	46.2	46.2
558.5	559.6	561.6	560.6	564.7	564.7	565.2	565.5	565.7	564.9	52.5°	44.9	44.9
567.7	568.8	571.8	570.8	573.9	572.9	572.9	572.9	572.9	572.3	55°	43.6	44.9
574.9	575.9	579.0	578.0	580.0	579.0	578.5	578.2	578.0	577.8	57.5°	42.2	42.2
578.0	579.0	582.1	580.0	582.1	581.0	581.5	581.9	582.1	581.5	60°	40.9	40.9
580.0	582.1	583.1	582.1	585.1	585.1	585.6	585.9	586.2	585.3	62.5°	39.6	39.6
585.1	586.2	588.2	587.2	591.3	590.2	590.2	590.2	590.2	589.4	65°	38.3	38.3
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	35.6	35.6
										70°	33.0	33.0
										72.5°	30.4	30.4
										75°	27.7	26.4
										77.5°	23.7	22.4
										80°	19.8	18.5
										82.5°	14.5	13.2
										85°	6.6	6.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	10.2	8.7
										100°	31.7	31.2
										102.5°	51.7	51.4
										105°	72.6	72.6
										107.5°	94.6	94.3
										110°	116.6	116.6

REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-S

0-LED-E1-SLL-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	112.5°	139.1	139.1	139.1
752.4	754.9	757.6	762.9	760.3	758.9	757.6	765.6	769.5	115°	161.6	161.6	161.6
582.1	580.7	584.7	586.0	582.1	575.5	571.5	572.9	576.7	117.5°	184.6	184.9	185.2
415.7	413.2	411.8	413.2	409.2	402.5	397.3	398.6	402.5	120°	208.7	208.7	208.7
293.0	294.3	297.0	299.6	299.6	299.6	301.0	308.8	318.1	122.5°	233.2	233.2	233.2
220.4	223.1	228.3	232.3	236.3	237.5	238.9	249.5	257.4	125°	259.3	259.6	259.8
178.2	179.5	182.2	184.7	187.4	187.4	188.7	192.7	199.3	127.5°	283.9	283.6	283.4
151.8	151.8	151.8	150.5	149.1	146.5	145.2	143.8	145.2	130°	307.9	307.9	307.9
136.0	134.6	132.0	129.3	128.1	124.1	122.8	118.8	117.4	132.5°	332.5	332.5	332.5
118.8	118.8	118.8	117.4	116.1	114.9	112.2	108.2	105.6	135°	356.0	356.0	356.0
99.0	100.4	100.4	101.7	104.2	104.2	104.2	104.2	100.4	137.5°	377.5	377.5	377.5
89.7	89.7	91.0	91.0	92.4	92.4	92.4	93.7	95.0	140°	399.0	399.0	399.0
83.2	84.5	84.5	85.8	85.8	87.2	87.2	88.4	88.4	142.5°	421.5	421.5	421.5
76.5	77.8	77.8	77.8	80.5	80.5	79.2	80.5	80.5	145°	443.4	443.1	442.9
67.3	67.3	67.3	67.3	67.3	67.3	64.7	63.3	64.7	147.5°	463.4	462.9	462.4
60.8	59.4	58.1	58.1	58.1	59.4	58.1	59.4	59.4	150°	480.8	480.3	479.8
55.4	55.4	55.4	55.4	55.4	55.4	55.4	56.8	58.1	152.5°	497.7	497.4	497.2
52.8	52.8	52.8	52.8	52.8	52.8	52.8	54.1	54.1	155°	515.1	514.7	514.5
50.1	50.1	51.5	51.5	51.5	51.5	51.5	51.5	52.8	157.5°	529.9	529.4	528.9
48.8	48.8	48.8	48.8	48.8	48.8	48.8	50.1	51.5	160°	543.2	542.7	542.2
47.5	47.5	47.5	47.5	47.5	47.5	47.5	48.8	50.1	162.5°	553.4	552.9	552.4
44.9	46.2	46.2	46.2	46.2	46.2	46.2	46.2	47.5	165°	564.2	563.4	562.6
44.9	44.9	44.9	44.9	43.6	43.6	43.6	43.6	44.9	167.5°	571.8	571.3	570.8
43.6	43.6	43.6	42.2	42.2	40.9	40.9	40.9	43.6	170°	577.5	577.1	576.9
40.9	40.9	40.9	39.6	39.6	39.6	39.6	40.9	40.9	172.5°	581.0	580.5	580.0
38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	175°	584.6	583.9	583.1
36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	177.5°	588.7	588.0	587.2
35.6	34.3	34.3	34.3	34.3	35.6	34.3	34.3	34.3	180°	589.2	589.2	589.2
33.0	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7				
30.4	30.4	29.1	29.1	29.1	29.1	29.1	29.1	29.1				
26.4	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1				
22.4	22.4	21.1	21.1	21.1	21.1	21.1	21.1	21.1				
18.5	17.2	17.2	17.2	17.2	17.2	17.2	15.9	15.9				
13.2	13.2	13.2	11.9	11.9	11.9	11.9	10.5	9.2				
5.3	6.6	6.6	7.9	6.6	6.6	6.6	5.3	2.7				
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				
7.2	6.6	6.1	5.6	5.1	4.9	4.6	4.1	4.1				
30.7	29.9	29.2	28.4	27.6	27.4	27.1	26.6	25.6				
51.1	50.6	50.1	49.6	49.1	49.3	49.6	50.1	49.1				
72.6	72.1	71.6	71.1	70.6	71.1	71.6	72.6	70.6				
94.1	93.9	93.6	93.3	93.1	93.3	93.6	94.1	93.1				
116.6	116.4	116.1	115.8	115.6	115.8	116.1	116.6	115.6				



REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

SLL-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
138.9	138.6	138.3	138.1	138.6	139.1	140.1	138.1	0°	922.6	922.6	922.6	922.6
161.6	161.6	161.6	161.6	162.1	162.6	163.7	162.6	2.5°	766.8	780.0	781.3	773.5
184.9	184.6	184.3	184.1	184.6	185.2	186.2	184.1	5°	571.5	588.7	587.4	576.7
208.7	208.7	208.7	208.7	209.2	209.7	210.7	208.7	7.5°	403.9	418.4	417.1	415.7
233.4	233.7	234.1	234.3	235.3	236.3	238.3	237.3	10°	327.3	340.5	344.5	353.7
259.8	259.8	259.8	259.8	260.6	261.4	262.9	261.9	12.5°	265.3	281.1	285.1	295.6
283.6	283.9	284.2	284.4	285.2	285.9	287.4	284.4	15°	204.6	217.8	221.8	229.7
308.1	308.4	308.7	308.9	309.7	310.5	312.0	310.0	17.5°	150.5	158.4	161.0	166.3
332.7	333.0	333.3	333.5	334.3	335.0	336.6	334.5	20°	117.4	120.1	121.4	122.8
356.2	356.5	356.8	357.0	357.5	358.0	359.1	358.0	22.5°	105.6	106.9	106.9	108.2
377.7	378.0	378.3	378.5	379.5	380.5	382.6	380.5	25°	97.7	99.0	99.0	100.4
399.5	400.0	400.5	401.0	402.0	403.0	405.1	403.0	27.5°	93.7	93.7	93.7	93.7
421.7	422.0	422.3	422.5	423.3	424.0	425.5	424.5	30°	89.7	89.7	89.7	91.0
443.1	443.4	443.8	444.0	444.8	445.5	447.0	445.0	32.5°	83.2	80.5	83.2	81.8
462.6	462.9	463.2	463.4	464.2	464.9	466.5	463.4	35°	64.7	64.7	66.0	67.3
479.8	479.8	479.8	479.8	480.8	481.8	483.9	480.8	37.5°	60.8	62.0	62.0	63.3
497.2	497.2	497.2	497.2	498.0	498.7	500.2	497.2	40°	58.1	59.4	60.8	62.0
514.7	515.1	515.4	515.6	516.4	517.1	518.6	516.6	42.5°	55.4	58.1	58.1	59.4
529.1	529.4	529.7	529.9	531.1	532.4	535.0	531.9	45°	54.1	55.4	56.8	58.1
542.2	542.2	542.2	542.2	543.0	543.7	545.2	543.2	47.5°	52.8	54.1	55.4	56.8
551.9	551.4	550.9	550.3	550.9	551.4	552.4	549.3	50°	50.1	52.8	54.1	55.4
562.1	561.6	561.1	560.6	561.1	561.6	562.6	560.6	52.5°	48.8	51.5	51.5	54.1
571.0	571.3	571.6	571.8	572.9	573.9	575.9	573.9	55°	46.2	48.8	48.8	51.5
577.5	578.0	578.5	579.0	580.2	581.5	584.1	582.1	57.5°	43.6	46.2	47.5	48.8
580.2	580.5	580.8	581.0	581.9	582.6	584.1	581.0	60°	42.2	43.6	44.9	46.2
582.6	582.1	581.5	581.0	581.9	582.6	584.1	581.0	62.5°	39.6	42.2	43.6	44.9
587.2	587.2	587.2	587.2	588.0	588.7	590.2	587.2	65°	38.3	40.9	40.9	43.6
589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	67.5°	35.6	38.3	38.3	39.6
								70°	33.0	34.3	35.6	36.9
								72.5°	30.4	31.7	31.7	33.0
								75°	25.1	26.4	27.7	29.1
								77.5°	21.1	21.1	23.7	23.7
								80°	15.9	15.9	17.2	18.5
								82.5°	9.2	9.2	10.5	10.5
								85°	2.7	2.7	2.7	2.7
								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°	4.1	4.6	4.9	5.1
								100°	26.6	27.1	27.4	27.6
								102.5°	50.1	49.6	49.3	49.1
								105°	72.6	71.6	71.1	70.6
								107.5°	94.1	93.6	93.3	93.1
								110°	116.6	116.1	115.8	115.6



REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
922.6	922.6	922.6	922.6	922.6	922.6	922.6	112.5°	140.1	139.1	138.6	138.1	138.3
789.3	792.0	788.0	788.0	790.6	801.2	801.2	115°	163.7	162.6	162.1	161.6	161.6
597.9	604.5	600.6	601.9	607.1	619.0	625.6	117.5°	186.2	185.2	184.6	184.1	184.3
428.9	434.2	436.9	440.8	456.6	458.0	466.0	120°	210.7	209.7	209.2	208.7	208.7
357.7	365.6	370.9	377.5	390.7	397.3	406.5	122.5°	238.3	236.3	235.3	234.3	234.1
301.0	310.2	315.5	328.7	336.6	344.5	356.4	125°	262.9	261.4	260.6	259.8	259.8
235.0	245.5	250.8	258.7	274.6	282.4	298.3	127.5°	287.4	285.9	285.2	284.4	284.2
170.2	174.2	184.7	197.9	207.2	220.4	228.3	130°	312.0	310.5	309.7	308.9	308.7
125.4	128.1	133.3	142.5	147.8	158.4	166.3	132.5°	336.6	335.0	334.3	333.5	333.3
108.2	109.6	112.2	114.9	117.4	121.4	125.4	135°	359.1	358.0	357.5	357.0	356.8
100.4	101.7	102.9	104.2	106.9	108.2	109.6	137.5°	382.6	380.5	379.5	378.5	378.3
95.0	95.0	96.4	99.0	99.0	101.7	102.9	140°	405.1	403.0	402.0	401.0	400.5
92.4	95.0	97.7	101.7	102.9	105.6	106.9	142.5°	425.5	424.0	423.3	422.5	422.3
79.2	79.2	80.5	83.2	83.2	84.5	85.8	145°	447.0	445.5	444.8	444.0	443.8
67.3	68.6	70.0	71.3	72.6	75.2	76.5	147.5°	466.5	464.9	464.2	463.4	463.2
64.7	64.7	66.0	68.6	70.0	71.3	72.6	150°	483.9	481.8	480.8	479.8	479.8
62.0	63.3	64.7	66.0	67.3	70.0	71.3	152.5°	500.2	498.7	498.0	497.2	497.2
60.8	62.0	63.3	64.7	67.3	68.6	70.0	155°	518.6	517.1	516.4	515.6	515.4
59.4	60.8	62.0	64.7	66.0	68.6	70.0	157.5°	535.0	532.4	531.1	529.9	529.7
58.1	59.4	60.8	63.3	66.0	68.6	71.3	160°	545.2	543.7	543.0	542.2	542.2
56.8	58.1	60.8	63.3	66.0	70.0	76.5	162.5°	552.4	551.4	550.9	550.3	550.9
55.4	58.1	60.8	63.3	67.3	72.6	79.2	165°	562.6	561.6	561.1	560.6	561.1
54.1	56.8	58.1	62.0	66.0	71.3	72.6	167.5°	575.9	573.9	572.9	571.8	571.6
51.5	54.1	55.4	59.4	64.7	66.0	64.7	170°	584.1	581.5	580.2	579.0	578.5
48.8	50.1	54.1	62.0	67.3	62.0	55.4	172.5°	584.1	582.6	581.9	581.0	580.8
47.5	48.8	51.5	56.8	58.1	51.5	50.1	175°	584.1	582.6	581.9	581.0	581.5
44.9	44.9	46.2	46.2	46.2	46.2	46.2	177.5°	590.2	588.7	588.0	587.2	587.2
40.9	40.9	42.2	42.2	42.2	42.2	42.2	180°	589.2	589.2	589.2	589.2	589.2
36.9	36.9	38.3	38.3	38.3	39.6	39.6						
33.0	34.3	34.3	35.6	35.6	35.6	36.9						
29.1	30.4	30.4	30.4	30.4	31.7	31.7						
25.1	25.1	26.4	26.4	26.4	26.4	26.4						
19.8	19.8	19.8	19.8	19.8	19.8	19.8						
11.9	11.9	13.2	11.9	11.9	10.5	10.5						
2.7	2.7	2.7	1.3	1.3	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	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						
5.6	6.1	6.6	7.2	8.7	10.2	11.8						
28.4	29.2	29.9	30.7	31.2	31.7	32.2						
49.6	50.1	50.6	51.1	51.4	51.7	52.0						
71.1	71.6	72.1	72.6	72.6	72.6	72.6						
93.3	93.6	93.9	94.1	94.3	94.6	94.9						
115.8	116.1	116.4	116.6	116.6	116.6	116.6						



REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
138.6	138.9	139.1	139.1	139.1	139.1	0°	922.6	922.6	922.6	922.6	922.6	922.6
161.6	161.6	161.6	161.6	161.6	161.6	2.5°	820.9	820.9	823.6	834.1	836.8	843.4
184.6	184.9	185.2	184.9	184.6	184.3	5°	649.4	654.7	662.6	675.8	683.7	698.2
208.7	208.7	208.7	208.7	208.7	208.7	7.5°	484.4	492.3	498.9	513.4	525.3	539.8
233.7	233.4	233.2	233.2	233.2	233.2	10°	419.7	426.4	435.6	444.8	456.6	463.3
259.8	259.8	259.8	259.6	259.3	259.0	12.5°	373.5	382.8	392.0	405.2	417.1	428.9
283.9	283.6	283.4	283.6	283.9	284.2	15°	316.8	327.3	337.9	352.4	369.6	381.5
308.4	308.1	307.9	307.9	307.9	307.9	17.5°	245.5	257.4	271.9	291.6	310.2	324.7
333.0	332.7	332.5	332.5	332.5	332.5	20°	180.9	191.4	204.6	221.8	235.0	260.0
356.5	356.2	356.0	356.0	356.0	356.0	22.5°	133.3	139.9	150.5	163.7	178.2	200.6
378.0	377.7	377.5	377.5	377.5	377.5	25°	112.2	114.9	118.8	126.7	136.0	151.8
400.0	399.5	399.0	399.0	399.0	399.0	27.5°	104.2	105.6	108.2	112.2	117.4	125.4
422.0	421.7	421.5	421.5	421.5	421.5	30°	109.6	109.6	109.6	110.9	113.5	117.4
443.4	443.1	442.9	443.1	443.4	443.8	32.5°	88.4	89.7	89.7	92.4	93.7	99.0
462.9	462.6	462.4	462.9	463.4	463.9	35°	79.2	80.5	81.8	83.2	85.8	87.2
479.8	479.8	479.8	480.3	480.8	481.3	37.5°	75.2	76.5	77.8	77.8	79.2	81.8
497.2	497.2	497.2	497.4	497.7	498.0	40°	74.0	74.0	74.0	74.0	76.5	79.2
515.1	514.7	514.5	514.7	515.1	515.4	42.5°	71.3	71.3	71.3	72.6	76.5	81.8
529.4	529.1	528.9	529.4	529.9	530.4	45°	71.3	71.3	72.6	77.8	79.2	79.2
542.2	542.2	542.2	542.7	543.2	543.7	47.5°	74.0	76.5	77.8	76.5	75.2	75.2
551.4	551.9	552.4	552.9	553.4	553.9	50°	80.5	79.2	74.0	72.6	72.6	70.0
561.6	562.1	562.6	563.4	564.2	564.9	52.5°	79.2	74.0	72.6	70.0	67.3	66.0
571.3	571.0	570.8	571.3	571.8	572.3	55°	71.3	70.0	66.0	63.3	62.0	63.3
578.0	577.5	576.9	577.1	577.5	577.8	57.5°	62.0	60.8	58.1	58.1	59.4	60.8
580.5	580.2	580.0	580.5	581.0	581.5	60°	54.1	54.1	54.1	55.4	56.8	58.1
582.1	582.6	583.1	583.9	584.6	585.3	62.5°	48.8	50.1	50.1	52.8	54.1	55.4
587.2	587.2	587.2	588.0	588.7	589.4	65°	46.2	47.5	48.8	48.8	50.1	51.5
589.2	589.2	589.2	589.2	589.2	589.2	67.5°	43.6	43.6	44.9	46.2	47.5	48.8
						70°	39.6	40.9	42.2	43.6	43.6	44.9
						72.5°	36.9	36.9	38.3	39.6	39.6	42.2
						75°	31.7	33.0	33.0	33.0	34.3	36.9
						77.5°	27.7	26.4	27.7	27.7	29.1	30.4
						80°	19.8	18.5	18.5	19.8	19.8	19.8
						82.5°	10.5	9.2	10.5	9.2	9.2	10.5
						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°	13.3	12.3	11.3	10.2	9.2	8.0
						100°	32.7	32.2	31.7	31.2	30.7	28.6
						102.5°	52.2	52.0	51.7	51.4	51.1	49.9
						105°	72.6	72.4	72.1	71.8	71.6	70.6
						107.5°	95.1	94.6	94.1	93.6	93.1	92.3
						110°	116.6	116.1	115.6	115.1	114.6	114.1

REPORT NUMBER: P228445

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
922.6	922.6	922.6	922.6	922.6	112.5°	139.1	138.6	138.1	137.6	137.1	136.6	136.1
842.1	854.0	859.3	890.9	923.9	115°	161.6	161.1	160.6	160.1	159.6	159.1	158.6
695.6	719.3	723.3	781.3	838.1	117.5°	184.1	183.9	183.6	183.3	183.1	182.6	182.1
543.8	571.5	579.4	656.0	735.2	120°	208.7	208.2	207.7	207.1	206.6	206.4	206.1
473.8	487.0	496.2	553.0	644.0	122.5°	233.2	233.0	232.7	232.4	232.2	232.0	231.7
439.6	452.8	464.6	510.8	582.1	125°	258.8	258.6	258.3	258.0	257.8	257.6	257.3
393.3	407.9	422.4	479.2	562.3	127.5°	284.4	283.9	283.4	282.8	282.3	281.8	281.3
336.6	356.4	374.8	443.4	553.0	130°	307.9	307.4	306.9	306.4	305.9	305.7	305.4
273.2	297.0	319.4	405.2	539.8	132.5°	332.5	331.6	330.9	330.2	329.4	329.2	328.9
215.1	236.3	261.4	369.6	539.8	135°	356.0	355.2	354.5	353.7	352.9	352.9	352.9
166.3	187.4	212.5	337.9	554.3	137.5°	377.5	377.0	376.4	375.9	375.4	375.4	375.4
136.0	153.1	178.2	312.8	575.5	140°	399.0	398.7	398.4	398.1	397.9	397.7	397.4
122.8	133.3	149.1	275.9	589.9	142.5°	421.5	420.9	420.4	419.9	419.4	419.4	419.4
104.2	112.2	126.7	253.4	599.2	145°	444.0	443.4	442.9	442.4	441.9	441.7	441.4
92.4	101.7	116.1	238.9	597.9	147.5°	464.4	464.2	463.9	463.6	463.4	463.2	462.9
85.8	95.0	112.2	233.6	597.9	150°	481.8	481.6	481.3	481.0	480.8	480.6	480.3
85.8	95.0	109.6	228.3	601.9	152.5°	498.2	498.0	497.7	497.4	497.2	496.9	496.6
84.5	89.7	101.7	225.7	608.5	155°	515.6	515.4	515.1	514.7	514.5	514.5	514.5
80.5	84.5	96.4	225.7	621.6	157.5°	530.9	530.9	530.9	530.9	530.9	530.9	530.9
75.2	80.5	92.4	229.7	646.7	160°	544.2	544.2	544.2	544.2	544.2	544.2	544.2
71.3	76.5	91.0	229.7	698.2	162.5°	554.4	554.2	553.9	553.6	553.4	553.4	553.4
67.3	75.2	89.7	227.0	772.1	165°	565.7	565.5	565.2	564.9	564.7	564.7	564.7
66.0	72.6	87.2	224.3	863.2	167.5°	572.9	572.9	572.9	572.9	572.9	573.1	573.4
64.7	70.0	80.5	217.8	935.8	170°	578.0	578.2	578.5	578.8	579.0	579.2	579.5
62.0	66.0	74.0	205.9	984.6	172.5°	582.1	581.9	581.5	581.2	581.0	581.2	581.5
58.1	62.0	67.3	192.7	995.2	175°	586.2	585.9	585.6	585.3	585.1	585.1	585.1
55.4	59.4	67.3	182.2	930.5	177.5°	590.2	590.2	590.2	590.2	590.2	590.4	590.8
51.5	58.1	68.6	172.9	789.3	180°	589.2	589.2	589.2	589.2	589.2	589.2	589.2
48.8	58.1	70.0	169.0	627.0								
46.2	56.8	71.3	162.3	472.5								
42.2	51.5	62.0	134.6	319.4								
34.3	39.6	46.2	85.8	169.0								
22.4	23.7	26.4	52.8	93.7								
10.5	13.2	13.2	25.1	42.2								
0.0	0.0	0.0	2.7	9.2								
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								
1.0	1.0	1.0	1.0	1.0								
6.6	5.3	4.1	3.1	2.0								
26.6	24.6	22.5	14.3	10.2								
48.6	47.3	46.0	38.9	32.7								
69.6	68.5	67.5	62.4	57.3								
91.6	90.8	90.0	85.9	81.8								
113.5	113.0	112.5	108.4	105.4								

REPORT NUMBER: P228445
 CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
135.5	135.0	132.0	128.9	0°	922.6	922.6	922.6
158.0	157.5	154.5	152.4	2.5°	955.6	971.4	979.4
181.6	181.1	178.0	175.9	5°	904.1	937.1	947.7
205.8	205.6	202.5	200.5	7.5°	826.2	863.2	877.7
231.4	231.2	228.1	226.1	10°	748.4	794.5	809.1
257.0	256.8	253.7	252.7	12.5°	702.2	757.6	765.6
280.8	280.3	278.2	276.2	15°	683.7	740.4	756.3
305.0	304.8	300.7	299.7	17.5°	702.2	765.6	781.3
328.6	328.4	325.3	324.3	20°	737.9	815.7	840.8
352.9	352.9	348.8	346.8	22.5°	798.5	904.1	935.8
375.4	375.4	372.4	371.3	25°	897.5	1044.0	1071.7
397.1	396.9	394.9	393.8	27.5°	1003.1	1154.9	1198.5
419.4	419.4	416.3	417.4	30°	1095.5	1257.8	1293.5
441.1	440.9	437.8	437.8	32.5°	1161.5	1339.7	1380.6
462.6	462.4	458.3	457.3	35°	1239.4	1433.4	1472.9
480.0	479.8	475.7	474.6	37.5°	1329.1	1546.9	1601.0
496.3	496.1	493.1	494.1	40°	1428.1	1664.3	1725.1
514.5	514.5	512.5	513.5	42.5°	1517.9	1773.9	1841.2
530.9	530.9	527.8	528.9	45°	1587.8	1876.9	1929.7
544.2	544.2	541.1	541.1	47.5°	1668.3	1956.1	2015.4
553.4	553.4	550.3	551.4	50°	1779.2	2056.3	2126.3
564.7	564.7	560.6	561.6	52.5°	1941.6	2226.7	2276.8
573.7	573.9	570.8	571.8	55°	2138.2	2432.6	2489.2
579.8	580.0	578.0	579.0	57.5°	2319.0	2623.9	2672.8
581.9	582.1	580.0	582.1	60°	2435.1	2712.4	2753.3
585.1	585.1	582.1	583.1	62.5°	2436.5	2715.0	2766.5
591.1	591.3	587.2	588.2	65°	2340.1	2656.9	2715.0
589.2	589.2	589.2	589.2	67.5°	2095.9	2509.1	2598.8
				70°	1769.9	2218.7	2319.0
				72.5°	1380.6	1743.5	1858.4
				75°	935.8	1157.6	1257.8
				77.5°	595.3	667.9	700.8
				80°	351.1	394.7	411.8
				82.5°	217.8	235.0	252.1
				85°	88.4	63.3	68.6
				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°	8.2	8.2	8.2
				102.5°	28.6	28.6	28.6
				105°	55.2	55.2	55.2
				107.5°	78.8	79.6	79.8
				110°	104.3	103.5	103.3

REPORT NUMBER: P228445
CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-ULG

CANDELA DISTRIBUTION (continued):

	355°	359°	360°
112.5°	126.8	126.8	126.8
115°	150.4	149.6	149.4
117.5°	173.9	173.1	172.9
120°	199.5	197.8	197.4
122.5°	225.0	224.2	224.0
125°	251.6	250.0	249.6
127.5°	275.2	273.5	273.1
130°	298.7	297.1	296.7
132.5°	321.2	320.4	320.2
135°	344.7	343.9	343.7
137.5°	368.3	367.4	367.2
140°	391.8	391.0	390.8
142.5°	415.3	413.7	413.3
145°	435.8	435.0	434.8
147.5°	454.2	454.2	454.2
150°	472.6	471.8	471.6
152.5°	491.0	490.2	490.0
155°	511.5	510.7	510.5
157.5°	526.8	525.2	524.8
160°	539.1	537.5	537.0
162.5°	548.3	547.5	547.3
165°	559.6	558.7	558.5
167.5°	568.8	567.9	567.7
170°	575.9	575.1	574.9
172.5°	579.0	578.2	578.0
175°	582.1	580.4	580.0
177.5°	586.2	585.3	585.1
180°	589.2	589.2	589.2

(END OF REPORT)