

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: P228449

Luminaire Tested: **ISS-AF-600-LED-E1-SLL-7030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228449
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-7030-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) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4311.2 lumens
Efficiency: N/A
Efficacy: 85.5 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): 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

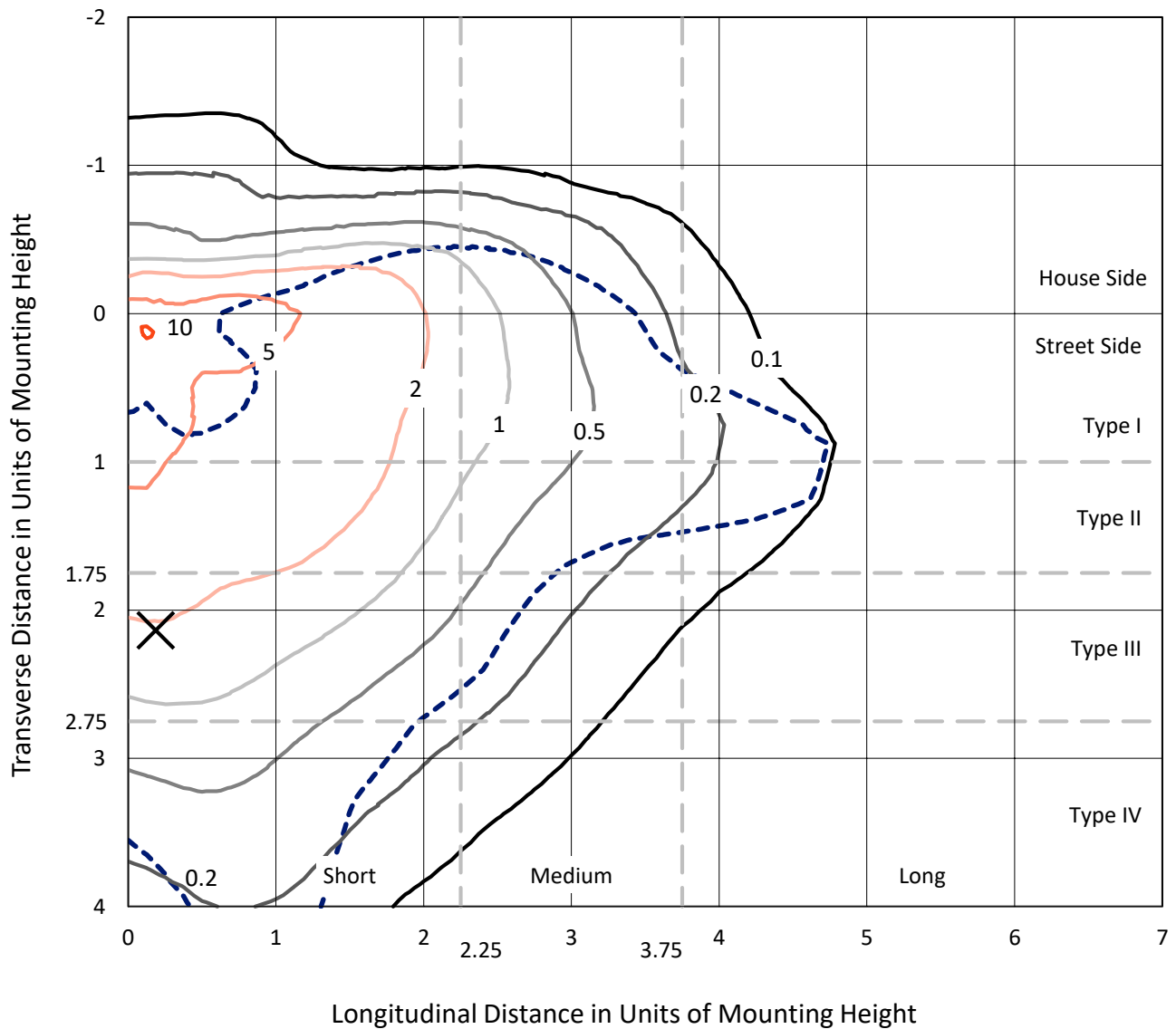


REPORT NUMBER: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

Iso-Footcandle Lines of Horizontal Illumination

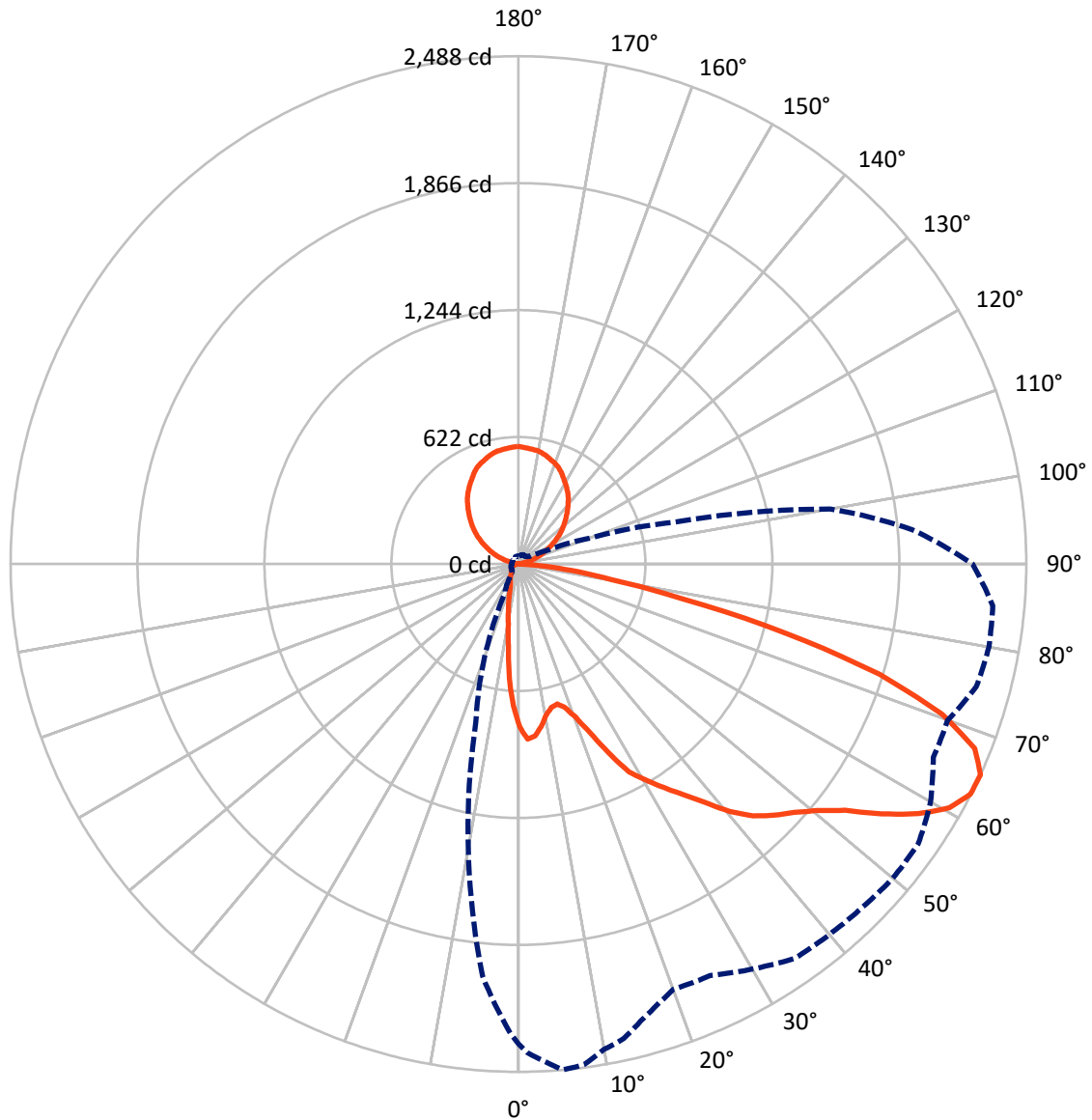
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228449
CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

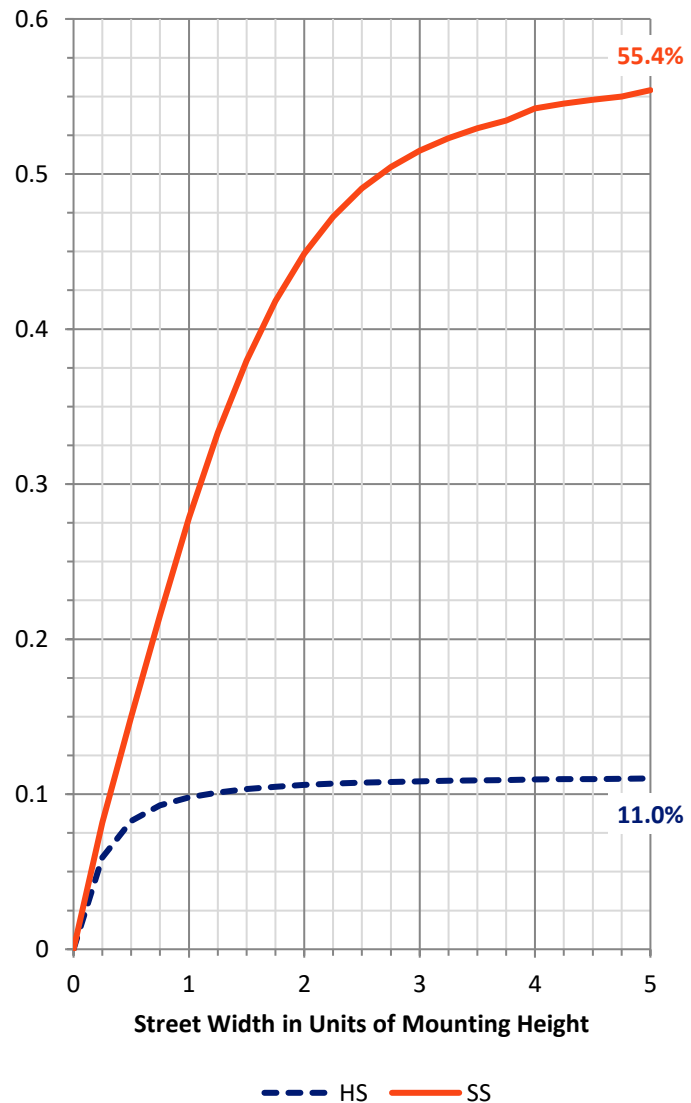
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.7	713.1	1192.8
	% Fixture	11.1	16.5	27.7
Street Side	Lumens	2405.3	713.1	3118.4
	% Fixture	55.8	16.5	72.3
Total	Lumens	2885.0	1426.2	4311.2
	% Fixture	66.9	33.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.4
10°-20°	126.3	2.9
20°-30°	183.6	4.3
30°-40°	271.6	6.3
40°-50°	395.7	9.2
50°-60°	593.2	13.8
60°-70°	739.2	17.1
70°-80°	433.0	10.0
80°-90°	81.0	1.9
90°-100°	4.7	0.1
100°-110°	69.0	1.6
110°-120°	153.0	3.6
120°-130°	223.9	5.2
130°-140°	265.6	6.2
140°-150°	269.3	6.2
150°-160°	231.1	5.4
160°-170°	155.1	3.6
170°-180°	54.3	1.3
0°-90°	2885.0	66.9
0°-180°	4311.2	100.0



REPORT NUMBER: P228449

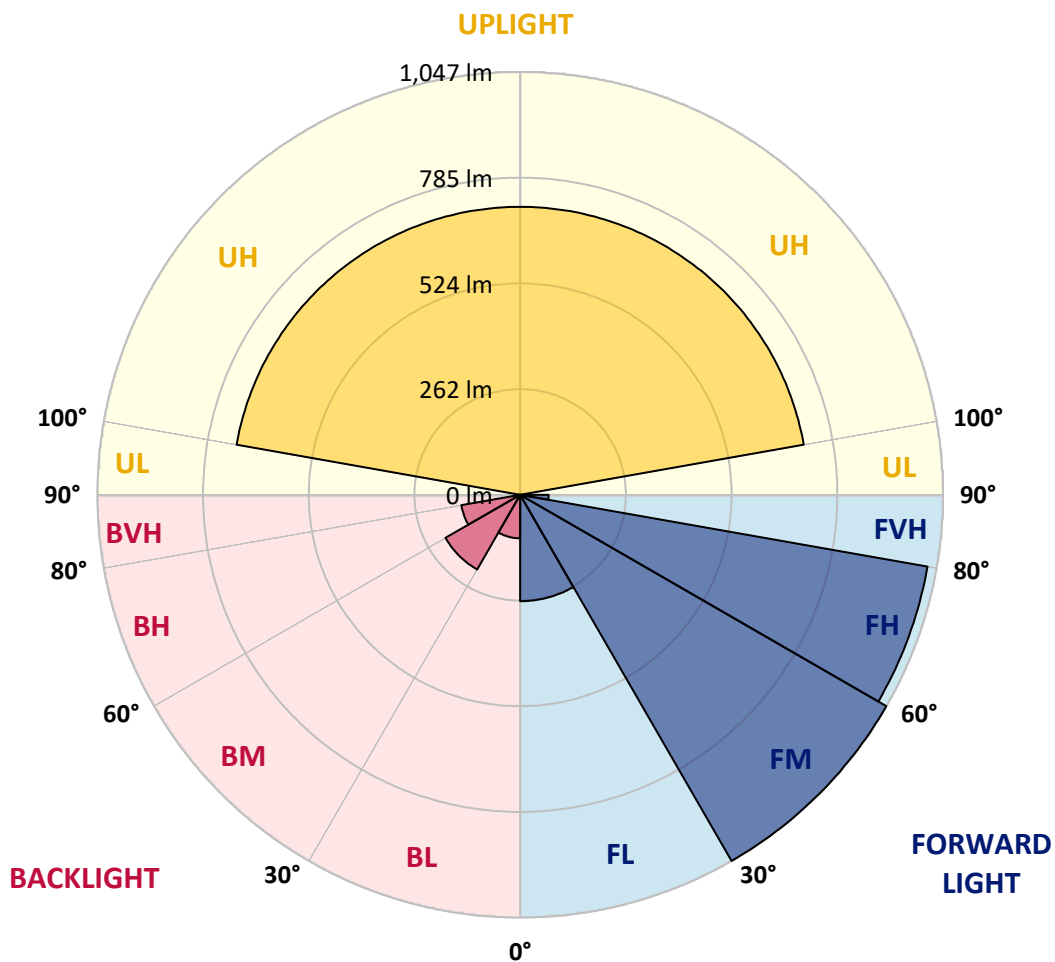
CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.6	6.1			
FM	(30°-60°)	1047.0	24.3			
FH	(60°-80°)	1024.2	23.8			G1/1800
FVH	(80°-90°)	70.5	1.6			G1/100
BL	(0°-30°)	107.7	2.5	B0/110		
BM	(30°-60°)	213.5	5.0	B0/220		
BH	(60°-80°)	148.1	3.4	B1/500		G1/500
BVH	(80°-90°)	10.4	0.2			G1/100
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	16.5		U4/1000	

BUG Rating: B1-U5-G1

Type IV Short





REPORT NUMBER: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4
2.5°	847.5	845.2	858.9	861.2	870.4	870.4	880.6	889.8	893.2	901.2	921.8
5°	820.1	826.9	846.4	865.8	879.5	893.2	908.0	926.3	941.2	966.3	1018.8
7.5°	759.6	769.8	803.0	822.4	844.1	868.1	886.3	908.0	930.9	973.1	1066.8
10°	700.2	708.2	750.4	774.4	805.2	830.4	856.6	880.6	905.8	958.3	1066.8
12.5°	662.5	672.8	720.7	743.6	779.0	805.2	837.2	865.8	895.5	951.4	1056.5
15°	654.5	665.9	711.6	740.1	771.0	796.1	824.7	854.4	884.1	938.9	1032.5
17.5°	676.2	689.9	739.0	771.0	795.0	823.5	844.1	872.6	892.1	935.5	980.0
20°	727.6	743.6	801.8	832.7	852.1	870.4	886.3	903.5	911.5	921.8	913.8
22.5°	809.8	829.2	895.5	930.9	944.6	958.3	959.4	961.7	956.0	928.6	866.9
25°	927.5	946.9	1022.3	1056.5	1056.5	1056.5	1044.0	1034.8	1008.6	957.2	854.4
27.5°	1037.1	1062.2	1152.5	1174.2	1167.3	1157.0	1133.1	1110.2	1072.5	986.9	853.2
30°	1119.3	1144.5	1227.9	1245.0	1227.9	1202.7	1165.0	1131.9	1087.4	1001.7	861.2
32.5°	1194.7	1224.4	1304.4	1306.7	1275.8	1247.3	1205.0	1167.3	1120.5	1029.1	885.2
35°	1274.7	1304.4	1385.5	1369.5	1324.9	1286.1	1242.7	1209.6	1162.8	1064.5	924.0
37.5°	1385.5	1411.8	1480.3	1442.6	1385.5	1335.2	1288.4	1245.0	1198.2	1112.5	989.1
40°	1492.8	1530.5	1593.4	1532.8	1463.2	1395.8	1344.4	1298.7	1247.3	1177.6	1072.5
42.5°	1593.4	1628.8	1687.0	1609.4	1528.3	1460.9	1407.2	1358.1	1309.0	1251.8	1173.0
45°	1669.9	1706.4	1755.6	1673.3	1580.8	1511.1	1452.9	1409.5	1366.1	1327.2	1299.8
47.5°	1744.1	1780.7	1818.4	1729.3	1637.9	1567.1	1498.6	1458.6	1424.3	1403.8	1436.9
50°	1840.1	1865.2	1897.2	1801.2	1704.2	1623.1	1554.5	1523.7	1491.7	1498.6	1609.4
52.5°	1970.3	1992.0	2003.4	1909.7	1801.2	1708.7	1633.3	1591.1	1564.8	1604.8	1792.1
55°	2154.2	2185.0	2159.9	2067.4	1930.3	1825.2	1732.7	1682.5	1666.5	1720.1	1974.9
57.5°	2312.9	2326.6	2308.4	2217.0	2076.5	1958.9	1860.6	1808.1	1789.8	1860.6	2141.6
60°	2382.6	2399.7	2424.9	2346.1	2214.7	2098.2	2013.7	1962.3	1931.4	2013.7	2275.3
62.5°	2394.0	2422.6	2484.3	2444.3	2340.4	2253.5	2177.0	2106.2	2082.2	2145.0	2363.2
65°	2349.5	2392.9	2487.7	2472.8	2414.6	2381.5	2317.5	2262.7	2217.0	2223.9	2358.6
67.5°	2249.0	2299.2	2410.0	2403.2	2410.0	2410.0	2354.1	2308.4	2249.0	2164.5	2185.0
70°	2006.8	2073.1	2201.0	2234.1	2292.4	2292.4	2243.3	2173.6	2105.1	1931.4	1826.4
72.5°	1608.2	1652.8	1849.2	2010.3	2084.5	2054.8	2006.8	1890.3	1739.6	1548.8	1406.0
75°	1088.5	1114.8	1355.8	1650.5	1785.2	1760.1	1681.3	1536.3	1380.9	1168.5	988.0
77.5°	606.5	640.8	821.2	1052.0	1233.6	1230.1	1219.9	1127.3	1004.0	828.1	734.4
80°	356.4	367.8	462.6	630.5	787.0	749.3	723.0	649.9	587.1	507.1	579.1
82.5°	218.2	206.7	262.7	383.8	464.9	448.9	404.3	376.9	347.2	325.5	384.9
85°	59.4	53.7	107.4	161.0	197.6	213.6	213.6	211.3	189.6	142.8	171.3
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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4
2.5°	929.7	930.9	927.5	935.5	926.3	921.8	908.0	908.0	896.6	887.5	877.2
5°	1038.3	1045.1	1039.4	1040.5	1022.3	1004.0	976.6	960.6	932.0	901.2	869.2
7.5°	1111.4	1122.8	1118.2	1098.8	1070.2	1031.4	985.7	942.3	895.5	845.2	798.4
10°	1130.8	1143.3	1133.1	1096.5	1049.7	994.9	940.0	881.8	824.7	771.0	720.7
12.5°	1103.4	1112.5	1090.8	1050.8	1005.1	950.3	893.2	842.9	775.5	718.4	660.2
15°	1033.7	1028.0	1025.7	997.1	965.2	920.6	866.9	815.5	752.7	694.5	632.8
17.5°	958.3	951.4	953.7	942.3	937.7	917.2	877.2	833.8	777.8	707.0	640.8
20°	892.1	885.2	888.6	894.3	911.5	912.6	905.8	877.2	836.1	761.8	680.7
22.5°	834.9	836.1	847.5	863.5	892.1	928.6	957.2	962.9	934.3	847.5	745.9
25°	817.8	812.1	824.7	850.9	898.9	969.7	1033.7	1065.7	1049.7	962.9	838.4
27.5°	812.1	804.1	817.8	852.1	928.6	1028.0	1119.3	1167.3	1173.0	1083.9	937.7
30°	812.1	808.7	822.4	866.9	948.0	1047.4	1149.0	1221.0	1243.8	1169.6	1024.5
32.5°	822.4	824.7	848.7	905.8	989.1	1090.8	1195.9	1273.5	1314.7	1258.7	1094.2
35°	845.2	849.8	884.1	950.3	1040.5	1143.3	1239.3	1318.1	1384.3	1354.6	1159.3
37.5°	894.3	901.2	943.5	1010.8	1093.1	1185.6	1279.3	1363.8	1459.7	1447.2	1227.9
40°	981.1	981.1	1023.4	1081.7	1149.0	1219.9	1312.4	1411.8	1529.4	1546.5	1312.4
42.5°	1090.8	1086.2	1113.6	1155.9	1202.7	1262.1	1345.5	1456.3	1594.5	1632.2	1376.3
45°	1241.6	1218.7	1233.6	1243.8	1266.7	1303.2	1377.5	1498.6	1647.0	1696.2	1424.3
47.5°	1418.6	1386.6	1374.1	1354.6	1346.6	1360.4	1424.3	1531.7	1697.3	1751.0	1502.0
50°	1613.9	1583.1	1550.0	1497.4	1451.7	1438.0	1476.9	1576.2	1751.0	1819.5	1587.6
52.5°	1817.2	1795.5	1752.1	1669.9	1583.1	1534.0	1552.2	1650.5	1836.6	1925.7	1689.3
55°	2003.4	2010.3	1957.7	1861.8	1737.3	1661.9	1683.6	1781.8	1992.0	2097.1	1859.5
57.5°	2203.3	2185.0	2143.9	2044.5	1908.6	1827.5	1836.6	1955.4	2165.6	2245.6	2028.5
60°	2335.8	2335.8	2291.2	2215.9	2086.8	2011.4	2025.1	2134.8	2304.9	2312.9	2103.9
62.5°	2421.5	2434.0	2398.6	2344.9	2219.3	2156.5	2203.3	2281.0	2373.5	2307.2	2066.2
65°	2380.3	2394.0	2390.6	2331.2	2242.1	2237.6	2322.1	2340.4	2332.4	2223.9	1936.0
67.5°	2194.2	2166.7	2165.6	2134.8	2116.5	2211.3	2318.7	2324.4	2189.6	2060.5	1730.4
70°	1840.1	1793.2	1775.0	1784.1	1867.5	2044.5	2197.6	2154.2	1939.4	1828.7	1473.4
72.5°	1418.6	1362.6	1351.2	1386.6	1515.7	1764.7	1973.7	1913.2	1594.5	1465.4	1141.1
75°	1006.3	982.3	983.4	1053.1	1192.5	1432.3	1675.6	1669.9	1181.0	1010.8	785.8
77.5°	732.1	736.7	757.3	784.7	904.6	1136.5	1364.9	1350.1	840.7	694.5	549.4
80°	604.2	611.1	611.1	596.2	627.1	750.4	927.5	990.3	563.1	467.2	383.8
82.5°	434.0	468.3	487.7	463.7	452.3	494.6	581.4	622.5	350.7	294.7	268.4
85°	206.7	236.4	243.3	237.6	273.0	311.8	332.4	340.4	191.9	137.1	175.9
87.5°	0.0	0.0	1.1	9.1	25.1	43.4	43.4	66.2	10.3	3.4	8.0
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°	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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4
2.5°	863.5	848.7	837.2	823.5	812.1	800.7	792.7	775.5	761.8	731.0	723.0
5°	842.9	811.0	789.3	768.7	742.4	724.2	704.7	680.7	654.5	609.9	596.2
7.5°	761.8	721.9	692.2	662.5	628.2	597.4	568.8	536.8	491.1	443.2	424.9
10°	673.9	631.6	590.5	555.1	514.0	479.7	454.6	431.7	395.2	358.6	334.7
12.5°	601.9	554.0	507.1	471.7	450.0	432.9	414.6	396.3	357.5	316.4	287.8
15°	568.8	512.8	471.7	442.0	422.6	402.1	380.4	359.8	314.1	266.1	231.9
17.5°	573.4	509.4	456.9	416.9	390.6	362.1	336.9	310.7	260.4	203.3	172.5
20°	598.5	512.8	440.9	394.1	356.4	319.8	287.8	254.7	193.0	148.5	126.8
22.5°	630.5	524.3	431.7	371.2	324.4	278.7	237.6	198.7	142.8	116.5	106.2
25°	685.3	550.5	429.5	350.7	293.5	238.7	196.5	155.3	115.4	102.8	97.1
27.5°	753.8	580.2	431.7	335.8	267.3	206.7	159.9	129.1	103.9	97.1	92.5
30°	822.4	611.1	421.5	313.0	236.4	177.0	137.1	117.6	102.8	94.8	86.8
32.5°	882.9	633.9	404.3	289.0	209.0	150.8	116.5	100.5	90.2	81.1	78.8
35°	926.3	644.2	384.9	274.1	190.7	134.8	102.8	90.2	80.0	70.8	66.2
37.5°	967.4	645.3	364.4	260.4	183.9	127.9	94.8	83.4	74.2	66.2	61.7
40°	1009.7	640.8	352.9	246.7	173.6	124.5	91.4	77.7	72.0	62.8	58.3
42.5°	1040.5	632.8	348.4	238.7	164.5	115.4	89.1	76.5	68.5	61.7	56.0
45°	1069.1	624.8	348.4	231.9	157.6	109.7	84.5	77.7	66.2	60.5	53.7
47.5°	1103.4	628.2	349.5	226.2	151.9	103.9	80.0	75.4	67.4	59.4	52.5
50°	1161.6	667.0	355.2	222.7	147.3	99.4	76.5	72.0	74.2	58.3	51.4
52.5°	1262.1	728.7	364.4	220.4	142.8	95.9	72.0	69.7	75.4	58.3	50.3
55°	1393.5	791.5	373.5	214.7	135.9	89.1	69.7	65.1	69.7	58.3	49.1
57.5°	1521.4	838.4	381.5	206.7	124.5	82.2	66.2	61.7	64.0	57.1	46.8
60°	1595.6	874.9	389.5	193.0	110.8	74.2	62.8	58.3	57.1	57.1	45.7
62.5°	1616.2	861.2	384.9	175.9	99.4	68.5	59.4	54.8	51.4	58.3	45.7
65°	1551.1	789.3	367.8	161.0	91.4	66.2	56.0	52.5	49.1	50.3	43.4
67.5°	1351.2	663.6	321.0	147.3	90.2	65.1	53.7	50.3	45.7	44.5	41.1
70°	1102.2	520.8	266.1	137.1	89.1	65.1	51.4	46.8	43.4	40.0	37.7
72.5°	847.5	389.5	223.9	132.5	90.2	64.0	48.0	42.3	38.8	36.6	34.3
75°	596.2	275.3	186.2	118.8	84.5	60.5	44.5	37.7	34.3	32.0	29.7
77.5°	431.7	187.3	138.2	95.9	72.0	52.5	38.8	32.0	28.6	27.4	25.1
80°	275.3	115.4	92.5	70.8	52.5	41.1	29.7	25.1	22.8	20.6	19.4
82.5°	158.8	67.4	56.0	48.0	34.3	27.4	21.7	19.4	14.8	13.7	12.6
85°	97.1	42.3	30.8	25.1	21.7	17.1	12.6	11.4	8.0	6.9	5.7
87.5°	21.7	9.1	8.0	5.7	6.9	5.7	3.4	2.3	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: P228449
 CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-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: P228449
 NUMBER: ISS-AF-600-LED-E1-SLL-7030-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°
798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	112.5°	124.0
710.4	693.3	694.5	691.0	681.9	667.0	662.5	654.5	655.6	660.2	655.6	115°	147.0
580.2	559.7	562.0	560.8	551.7	541.4	533.4	523.1	519.7	523.1	517.4	117.5°	170.0
411.2	397.5	402.1	412.3	411.2	405.5	398.6	387.2	384.9	386.1	375.8	120°	195.0
314.1	300.4	297.0	295.8	293.5	290.1	281.0	271.8	268.4	269.6	262.7	122.5°	220.0
262.7	251.3	237.6	225.0	213.6	209.0	197.6	191.9	190.7	190.7	187.3	125°	246.0
207.9	198.7	190.7	178.2	169.0	162.2	154.2	149.6	148.5	149.6	149.6	127.5°	269.0
155.3	150.8	147.3	146.2	141.6	137.1	132.5	130.2	129.1	129.1	130.2	130°	292.0
118.8	117.6	117.6	117.6	123.4	127.9	129.1	125.6	124.5	123.4	122.2	132.5°	314.0
102.8	101.7	102.8	109.7	106.2	102.8	102.8	102.8	102.8	102.8	103.9	135°	337.0
94.8	95.9	97.1	93.7	90.2	87.9	86.8	86.8	85.7	85.7	86.8	137.5°	360.0
90.2	89.1	87.9	85.7	83.4	80.0	78.8	77.7	77.7	77.7	77.7	140°	383.0
84.5	83.4	82.2	80.0	76.5	72.0	70.8	70.8	69.7	70.8	70.8	142.5°	406.0
77.7	76.5	75.4	73.1	69.7	67.4	66.2	64.0	64.0	64.0	65.1	145°	426.0
62.8	61.7	61.7	62.8	62.8	61.7	61.7	59.4	59.4	59.4	59.4	147.5°	444.0
58.3	57.1	57.1	56.0	57.1	58.3	57.1	56.0	56.0	54.8	54.8	150°	462.0
54.8	54.8	53.7	52.5	52.5	54.8	53.7	52.5	51.4	51.4	51.4	152.5°	480.0
52.5	51.4	51.4	50.3	50.3	50.3	49.1	48.0	46.8	46.8	46.8	155°	500.0
50.3	50.3	49.1	48.0	46.8	46.8	44.5	43.4	43.4	43.4	44.5	157.5°	515.0
49.1	48.0	48.0	46.8	45.7	43.4	42.3	41.1	41.1	41.1	41.1	160°	527.0
48.0	46.8	45.7	45.7	43.4	42.3	41.1	40.0	40.0	40.0	40.0	162.5°	536.0
46.8	45.7	44.5	43.4	42.3	41.1	40.0	38.8	38.8	38.8	38.8	165°	547.0
44.5	43.4	43.4	42.3	42.3	41.1	40.0	38.8	38.8	38.8	37.7	167.5°	556.0
43.4	42.3	41.1	41.1	41.1	40.0	38.8	37.7	37.7	37.7	37.7	170°	563.0
42.3	41.1	41.1	40.0	40.0	38.8	38.8	37.7	36.6	36.6	35.4	172.5°	566.0
41.1	40.0	40.0	38.8	40.0	38.8	37.7	36.6	35.4	35.4	34.3	175°	569.0
40.0	38.8	38.8	38.8	37.7	37.7	36.6	34.3	34.3	34.3	33.1	177.5°	573.0
37.7	36.6	36.6	37.7	36.6	35.4	35.4	33.1	33.1	32.0	32.0	180°	576.0
34.3	34.3	34.3	35.4	34.3	33.1	33.1	32.0	30.8	29.7	29.7		
32.0	30.8	32.0	32.0	32.0	30.8	32.0	29.7	28.6	27.4	27.4		
27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	26.3	25.1	24.0		
21.7	22.8	22.8	22.8	22.8	24.0	22.8	22.8	22.8	21.7	20.6		
16.0	16.0	17.1	18.3	17.1	18.3	17.1	18.3	17.1	17.1	17.1		
9.1	9.1	10.3	11.4	11.4	12.6	10.3	11.4	11.4	12.6	11.4		
3.4	3.4	3.4	3.4	4.6	4.6	3.4	4.6	4.6	5.7	5.7		
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	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		

'228449
 ISS-AF-600-LED-E1-SLL-7030-ULG

REPORT NUMBER: P228449
 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°
124.0	124.0	126.0	129.0	132.0	134.0	135.0	135.5	136.0	136.0	0°	798.4	798.4
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	664.8	664.8
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	522.0	520.8
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	379.2	375.8
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	265.0	255.9
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	191.9	188.5
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	151.9	151.9
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	131.4	131.4
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	121.1	119.9
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	103.9	102.8
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	85.7	85.7
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	77.7	77.7
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	70.8	72.0
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	65.1	65.1
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	58.3	58.3
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	53.7	52.5
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	49.1	49.1
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	45.7	45.7
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	43.4	43.4
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	42.3	42.3
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	40.0	40.0
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	38.8	38.8
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	37.7	38.8
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	36.6	36.6
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	35.4	35.4
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	34.3	34.3
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	33.1	33.1
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	30.8	30.8
										70°	28.6	28.6
										72.5°	26.3	26.3
										75°	24.0	22.8
										77.5°	20.6	19.4
										80°	17.1	16.0
										82.5°	12.6	11.4
										85°	5.7	5.7
										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: P228449

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

0-LED-E1-SLL-7030-ULG

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	798.4	112.5°	136.0	136.0	136.0
651.1	653.3	655.6	660.2	657.9	656.8	655.6	662.5	665.9	115°	158.0	158.0	158.0
503.7	502.6	506.0	507.1	503.7	498.0	494.6	495.7	499.1	117.5°	180.5	180.8	181.0
359.8	357.5	356.4	357.5	354.1	348.4	343.8	344.9	348.4	120°	204.0	204.0	204.0
253.6	254.7	257.0	259.3	259.3	259.3	260.4	267.3	275.3	122.5°	228.0	228.0	228.0
190.7	193.0	197.6	201.0	204.5	205.6	206.7	215.9	222.7	125°	253.5	253.8	254.0
154.2	155.3	157.6	159.9	162.2	162.2	163.3	166.8	172.5	127.5°	277.5	277.2	277.0
131.4	131.4	131.4	130.2	129.1	126.8	125.6	124.5	125.6	130°	301.0	301.0	301.0
117.6	116.5	114.2	111.9	110.8	107.4	106.2	102.8	101.7	132.5°	325.0	325.0	325.0
102.8	102.8	102.8	101.7	100.5	99.4	97.1	93.7	91.4	135°	348.0	348.0	348.0
85.7	86.8	86.8	87.9	90.2	90.2	90.2	90.2	86.8	137.5°	369.0	369.0	369.0
77.7	77.7	78.8	78.8	80.0	80.0	80.0	81.1	82.2	140°	390.0	390.0	390.0
72.0	73.1	73.1	74.2	74.2	75.4	75.4	76.5	76.5	142.5°	412.0	412.0	412.0
66.2	67.4	67.4	67.4	69.7	69.7	68.5	69.7	69.7	145°	433.5	433.2	433.0
58.3	58.3	58.3	58.3	58.3	58.3	56.0	54.8	56.0	147.5°	453.0	452.5	452.0
52.5	51.4	50.3	50.3	50.3	51.4	50.3	51.4	51.4	150°	470.0	469.5	469.0
48.0	48.0	48.0	48.0	48.0	48.0	48.0	49.1	50.3	152.5°	486.5	486.2	486.0
45.7	45.7	45.7	45.7	45.7	45.7	45.7	46.8	46.8	155°	503.5	503.2	503.0
43.4	43.4	44.5	44.5	44.5	44.5	44.5	44.5	45.7	157.5°	518.0	517.5	517.0
42.3	42.3	42.3	42.3	42.3	42.3	42.3	43.4	44.5	160°	531.0	530.5	530.0
41.1	41.1	41.1	41.1	41.1	41.1	41.1	42.3	43.4	162.5°	541.0	540.5	540.0
38.8	40.0	40.0	40.0	40.0	40.0	40.0	40.0	41.1	165°	551.5	550.8	550.0
38.8	38.8	38.8	38.8	37.7	37.7	37.7	37.7	38.8	167.5°	559.0	558.5	558.0
37.7	37.7	37.7	36.6	36.6	35.4	35.4	35.4	37.7	170°	564.5	564.2	564.0
35.4	35.4	35.4	34.3	34.3	34.3	34.3	35.4	35.4	172.5°	568.0	567.5	567.0
33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	175°	571.5	570.8	570.0
32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	177.5°	575.5	574.8	574.0
30.8	29.7	29.7	29.7	29.7	30.8	29.7	29.7	29.7	180°	576.0	576.0	576.0
28.6	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4				
26.3	26.3	25.1	25.1	25.1	25.1	25.1	25.1	25.1				
22.8	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7				
19.4	19.4	18.3	18.3	18.3	18.3	18.3	18.3	18.3				
16.0	14.8	14.8	14.8	14.8	14.8	14.8	13.7	13.7				
11.4	11.4	11.4	10.3	10.3	10.3	10.3	9.1	8.0				
4.6	5.7	5.7	6.9	5.7	5.7	5.7	4.6	2.3				
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	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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-U

SLL-7030-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°	798.4	798.4	798.4	798.4
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	663.6	675.0	676.2	669.3
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	494.6	509.4	508.3	499.1
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	349.5	362.1	360.9	359.8
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	283.3	294.7	298.1	306.1
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	229.6	243.3	246.7	255.9
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	177.0	188.5	191.9	198.7
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	130.2	137.1	139.3	143.9
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	101.7	103.9	105.1	106.2
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	91.4	92.5	92.5	93.7
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	84.5	85.7	85.7	86.8
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	81.1	81.1	81.1	81.1
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	77.7	77.7	77.7	78.8
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	72.0	69.7	72.0	70.8
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	56.0	56.0	57.1	58.3
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	52.5	53.7	53.7	54.8
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	50.3	51.4	52.5	53.7
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	48.0	50.3	50.3	51.4
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	46.8	48.0	49.1	50.3
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	45.7	46.8	48.0	49.1
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	43.4	45.7	46.8	48.0
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	42.3	44.5	44.5	46.8
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	40.0	42.3	42.3	44.5
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	37.7	40.0	41.1	42.3
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	36.6	37.7	38.8	40.0
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	34.3	36.6	37.7	38.8
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	33.1	35.4	35.4	37.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	30.8	33.1	33.1	34.3
								70°	28.6	29.7	30.8	32.0
								72.5°	26.3	27.4	27.4	28.6
								75°	21.7	22.8	24.0	25.1
								77.5°	18.3	18.3	20.6	20.6
								80°	13.7	13.7	14.8	16.0
								82.5°	8.0	8.0	9.1	9.1
								85°	2.3	2.3	2.3	2.3
								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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-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°
798.4	798.4	798.4	798.4	798.4	798.4	798.4	112.5°	137.0	136.0	135.5	135.0	135.2
683.0	685.3	681.9	681.9	684.2	693.3	693.3	115°	160.0	159.0	158.5	158.0	158.0
517.4	523.1	519.7	520.8	525.4	535.7	541.4	117.5°	182.0	181.0	180.5	180.0	180.2
371.2	375.8	378.1	381.5	395.2	396.3	403.2	120°	206.0	205.0	204.5	204.0	204.0
309.5	316.4	321.0	326.7	338.1	343.8	351.8	122.5°	233.0	231.0	230.0	229.0	228.8
260.4	268.4	273.0	284.4	291.3	298.1	308.4	125°	257.0	255.5	254.8	254.0	254.0
203.3	212.4	217.0	223.9	237.6	244.4	258.1	127.5°	281.0	279.5	278.8	278.0	277.8
147.3	150.8	159.9	171.3	179.3	190.7	197.6	130°	305.0	303.5	302.8	302.0	301.8
108.5	110.8	115.4	123.4	127.9	137.1	143.9	132.5°	329.0	327.5	326.8	326.0	325.8
93.7	94.8	97.1	99.4	101.7	105.1	108.5	135°	351.0	350.0	349.5	349.0	348.8
86.8	87.9	89.1	90.2	92.5	93.7	94.8	137.5°	374.0	372.0	371.0	370.0	369.8
82.2	82.2	83.4	85.7	85.7	87.9	89.1	140°	396.0	394.0	393.0	392.0	391.5
80.0	82.2	84.5	87.9	89.1	91.4	92.5	142.5°	416.0	414.5	413.8	413.0	412.8
68.5	68.5	69.7	72.0	72.0	73.1	74.2	145°	437.0	435.5	434.8	434.0	433.8
58.3	59.4	60.5	61.7	62.8	65.1	66.2	147.5°	456.0	454.5	453.8	453.0	452.8
56.0	56.0	57.1	59.4	60.5	61.7	62.8	150°	473.0	471.0	470.0	469.0	469.0
53.7	54.8	56.0	57.1	58.3	60.5	61.7	152.5°	489.0	487.5	486.8	486.0	486.0
52.5	53.7	54.8	56.0	58.3	59.4	60.5	155°	507.0	505.5	504.8	504.0	503.8
51.4	52.5	53.7	56.0	57.1	59.4	60.5	157.5°	523.0	520.5	519.2	518.0	517.8
50.3	51.4	52.5	54.8	57.1	59.4	61.7	160°	533.0	531.5	530.8	530.0	530.0
49.1	50.3	52.5	54.8	57.1	60.5	66.2	162.5°	540.0	539.0	538.5	538.0	538.5
48.0	50.3	52.5	54.8	58.3	62.8	68.5	165°	550.0	549.0	548.5	548.0	548.5
46.8	49.1	50.3	53.7	57.1	61.7	62.8	167.5°	563.0	561.0	560.0	559.0	558.8
44.5	46.8	48.0	51.4	56.0	57.1	56.0	170°	571.0	568.5	567.2	566.0	565.5
42.3	43.4	46.8	53.7	58.3	53.7	48.0	172.5°	571.0	569.5	568.8	568.0	567.8
41.1	42.3	44.5	49.1	50.3	44.5	43.4	175°	571.0	569.5	568.8	568.0	568.5
38.8	38.8	40.0	40.0	40.0	40.0	40.0	177.5°	577.0	575.5	574.8	574.0	574.0
35.4	35.4	36.6	36.6	36.6	36.6	36.6	180°	576.0	576.0	576.0	576.0	576.0
32.0	32.0	33.1	33.1	33.1	34.3	34.3						
28.6	29.7	29.7	30.8	30.8	30.8	32.0						
25.1	26.3	26.3	26.3	26.3	27.4	27.4						
21.7	21.7	22.8	22.8	22.8	22.8	22.8						
17.1	17.1	17.1	17.1	17.1	17.1	17.1						
10.3	10.3	11.4	10.3	10.3	9.1	9.1						
2.3	2.3	2.3	1.1	1.1	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						
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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-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°	798.4	798.4	798.4	798.4	798.4	798.4
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	710.4	710.4	712.7	721.9	724.2	729.9
180.5	180.8	181.0	180.8	180.5	180.2	5°	562.0	566.5	573.4	584.8	591.7	604.2
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	419.2	426.0	431.7	444.3	454.6	467.2
228.5	228.2	228.0	228.0	228.0	228.0	10°	363.2	368.9	376.9	384.9	395.2	400.9
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	323.2	331.2	339.2	350.7	360.9	371.2
277.5	277.2	277.0	277.2	277.5	277.8	15°	274.1	283.3	292.4	305.0	319.8	330.1
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	212.4	222.7	235.3	252.4	268.4	281.0
325.5	325.2	325.0	325.0	325.0	325.0	20°	156.5	165.6	177.0	191.9	203.3	225.0
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	115.4	121.1	130.2	141.6	154.2	173.6
369.5	369.2	369.0	369.0	369.0	369.0	25°	97.1	99.4	102.8	109.7	117.6	131.4
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	90.2	91.4	93.7	97.1	101.7	108.5
412.5	412.2	412.0	412.0	412.0	412.0	30°	94.8	94.8	94.8	95.9	98.2	101.7
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	76.5	77.7	77.7	80.0	81.1	85.7
452.5	452.2	452.0	452.5	453.0	453.5	35°	68.5	69.7	70.8	72.0	74.2	75.4
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	65.1	66.2	67.4	67.4	68.5	70.8
486.0	486.0	486.0	486.2	486.5	486.8	40°	64.0	64.0	64.0	64.0	66.2	68.5
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	61.7	61.7	61.7	62.8	66.2	70.8
517.5	517.2	517.0	517.5	518.0	518.5	45°	61.7	61.7	62.8	67.4	68.5	68.5
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	64.0	66.2	67.4	66.2	65.1	65.1
539.0	539.5	540.0	540.5	541.0	541.5	50°	69.7	68.5	64.0	62.8	62.8	60.5
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	68.5	64.0	62.8	60.5	58.3	57.1
558.5	558.2	558.0	558.5	559.0	559.5	55°	61.7	60.5	57.1	54.8	53.7	54.8
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	53.7	52.5	50.3	50.3	51.4	52.5
567.5	567.2	567.0	567.5	568.0	568.5	60°	46.8	46.8	46.8	48.0	49.1	50.3
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	42.3	43.4	43.4	45.7	46.8	48.0
574.0	574.0	574.0	574.8	575.5	576.2	65°	40.0	41.1	42.3	42.3	43.4	44.5
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	37.7	37.7	38.8	40.0	41.1	42.3
						70°	34.3	35.4	36.6	37.7	37.7	38.8
						72.5°	32.0	32.0	33.1	34.3	34.3	36.6
						75°	27.4	28.6	28.6	28.6	29.7	32.0
						77.5°	24.0	22.8	24.0	24.0	25.1	26.3
						80°	17.1	16.0	16.0	17.1	17.1	17.1
						82.5°	9.1	8.0	9.1	8.0	8.0	9.1
						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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
798.4	798.4	798.4	798.4	798.4	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
728.7	739.0	743.6	771.0	799.5	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
601.9	622.5	625.9	676.2	725.3	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
470.6	494.6	501.4	567.7	636.2	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
410.0	421.5	429.5	478.6	557.4	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
380.4	391.8	402.1	442.0	503.7	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
340.4	352.9	365.5	414.6	486.6	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
291.3	308.4	324.4	383.8	478.6	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
236.4	257.0	276.4	350.7	467.2	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
186.2	204.5	226.2	319.8	467.2	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
143.9	162.2	183.9	292.4	479.7	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
117.6	132.5	154.2	270.7	498.0	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
106.2	115.4	129.1	238.7	510.6	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
90.2	97.1	109.7	219.3	518.6	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
80.0	87.9	100.5	206.7	517.4	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
74.2	82.2	97.1	202.2	517.4	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
74.2	82.2	94.8	197.6	520.8	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
73.1	77.7	87.9	195.3	526.6	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
69.7	73.1	83.4	195.3	538.0	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
65.1	69.7	80.0	198.7	559.7	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
61.7	66.2	78.8	198.7	604.2	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
58.3	65.1	77.7	196.5	668.2	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
57.1	62.8	75.4	194.2	747.0	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
56.0	60.5	69.7	188.5	809.8	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
53.7	57.1	64.0	178.2	852.1	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
50.3	53.7	58.3	166.8	861.2	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
48.0	51.4	58.3	157.6	805.2	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
44.5	50.3	59.4	149.6	683.0	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
42.3	50.3	60.5	146.2	542.5								
40.0	49.1	61.7	140.5	408.9								
36.6	44.5	53.7	116.5	276.4								
29.7	34.3	40.0	74.2	146.2								
19.4	20.6	22.8	45.7	81.1								
9.1	11.4	11.4	21.7	36.6								
0.0	0.0	0.0	2.3	8.0								
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								
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: P228449
 CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	798.4	798.4	798.4
154.5	154.0	151.0	149.0	2.5°	826.9	840.7	847.5
177.5	177.0	174.0	172.0	5°	782.4	811.0	820.1
201.2	201.0	198.0	196.0	7.5°	715.0	747.0	759.6
226.2	226.0	223.0	221.0	10°	647.6	687.6	700.2
251.2	251.0	248.0	247.0	12.5°	607.6	655.6	662.5
274.5	274.0	272.0	270.0	15°	591.7	640.8	654.5
298.2	298.0	294.0	293.0	17.5°	607.6	662.5	676.2
321.2	321.0	318.0	317.0	20°	638.5	705.9	727.6
345.0	345.0	341.0	339.0	22.5°	691.0	782.4	809.8
367.0	367.0	364.0	363.0	25°	776.7	903.5	927.5
388.2	388.0	386.0	385.0	27.5°	868.1	999.4	1037.1
410.0	410.0	407.0	408.0	30°	948.0	1088.5	1119.3
431.2	431.0	428.0	428.0	32.5°	1005.1	1159.3	1194.7
452.2	452.0	448.0	447.0	35°	1072.5	1240.4	1274.7
469.2	469.0	465.0	464.0	37.5°	1150.2	1338.7	1385.5
485.2	485.0	482.0	483.0	40°	1235.9	1440.3	1492.8
503.0	503.0	501.0	502.0	42.5°	1313.5	1535.1	1593.4
519.0	519.0	516.0	517.0	45°	1374.1	1624.2	1669.9
532.0	532.0	529.0	529.0	47.5°	1443.7	1692.7	1744.1
541.0	541.0	538.0	539.0	50°	1539.7	1779.5	1840.1
552.0	552.0	548.0	549.0	52.5°	1680.2	1926.9	1970.3
560.8	561.0	558.0	559.0	55°	1850.4	2105.1	2154.2
566.8	567.0	565.0	566.0	57.5°	2006.8	2270.7	2312.9
568.8	569.0	567.0	569.0	60°	2107.3	2347.2	2382.6
572.0	572.0	569.0	570.0	62.5°	2108.5	2349.5	2394.0
577.8	578.0	574.0	575.0	65°	2025.1	2299.2	2349.5
576.0	576.0	576.0	576.0	67.5°	1813.8	2171.3	2249.0
				70°	1531.7	1920.0	2006.8
				72.5°	1194.7	1508.8	1608.2
				75°	809.8	1001.7	1088.5
				77.5°	515.1	578.0	606.5
				80°	303.8	341.5	356.4
				82.5°	188.5	203.3	218.2
				85°	76.5	54.8	59.4
				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: P228449

CATALOG NUMBER: ISS-AF-600-LED-E1-SLL-7030-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)