

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: P228461

Luminaire Tested: **ISS-AF-1200-LED-E1-SLL-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228461
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-1200-LED-E1-SLL-8030-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, 80 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5904.2 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

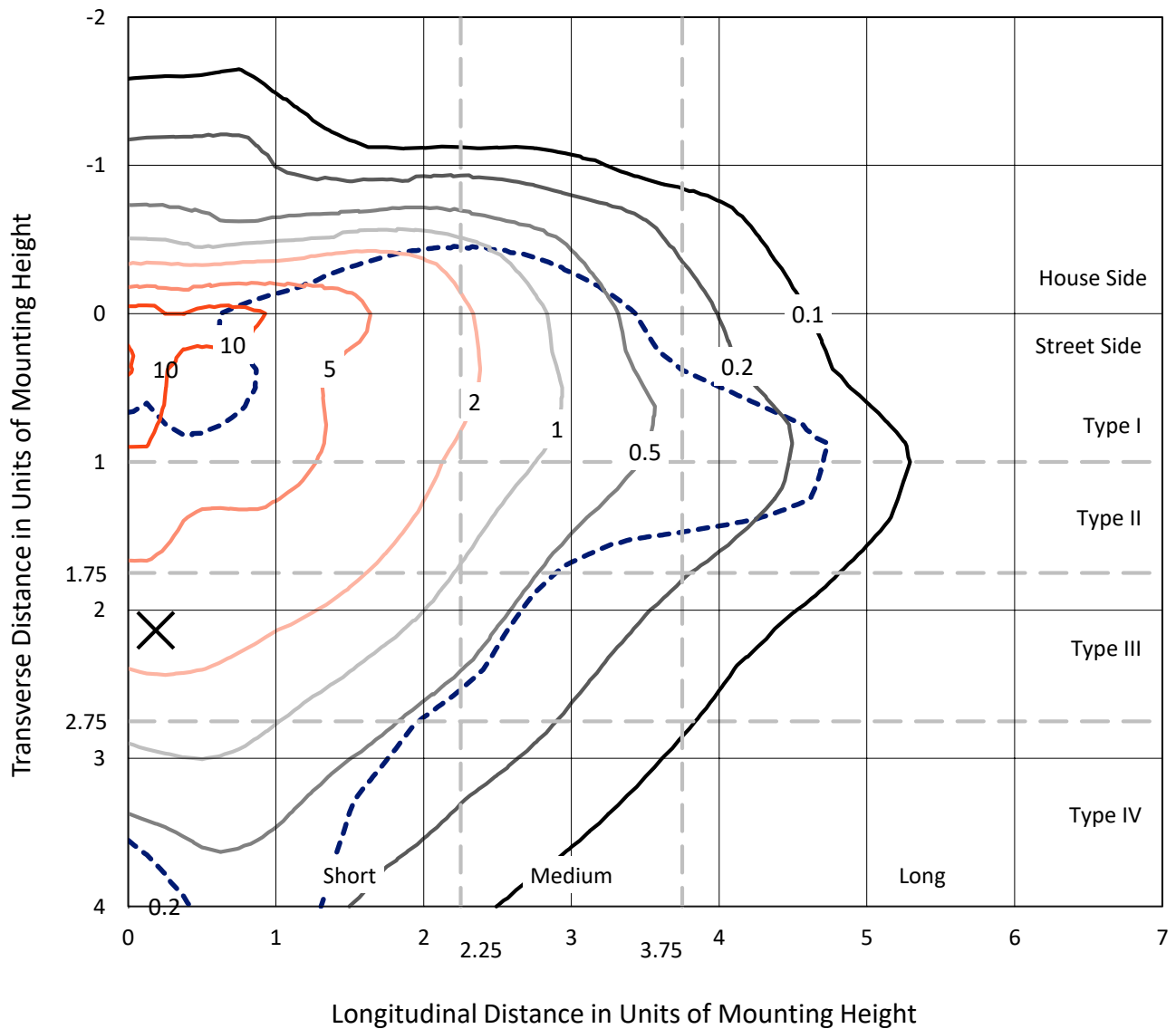
Input Watts (W): 82.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P228461
 CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

Iso-Footcandle Lines of Horizontal Illumination

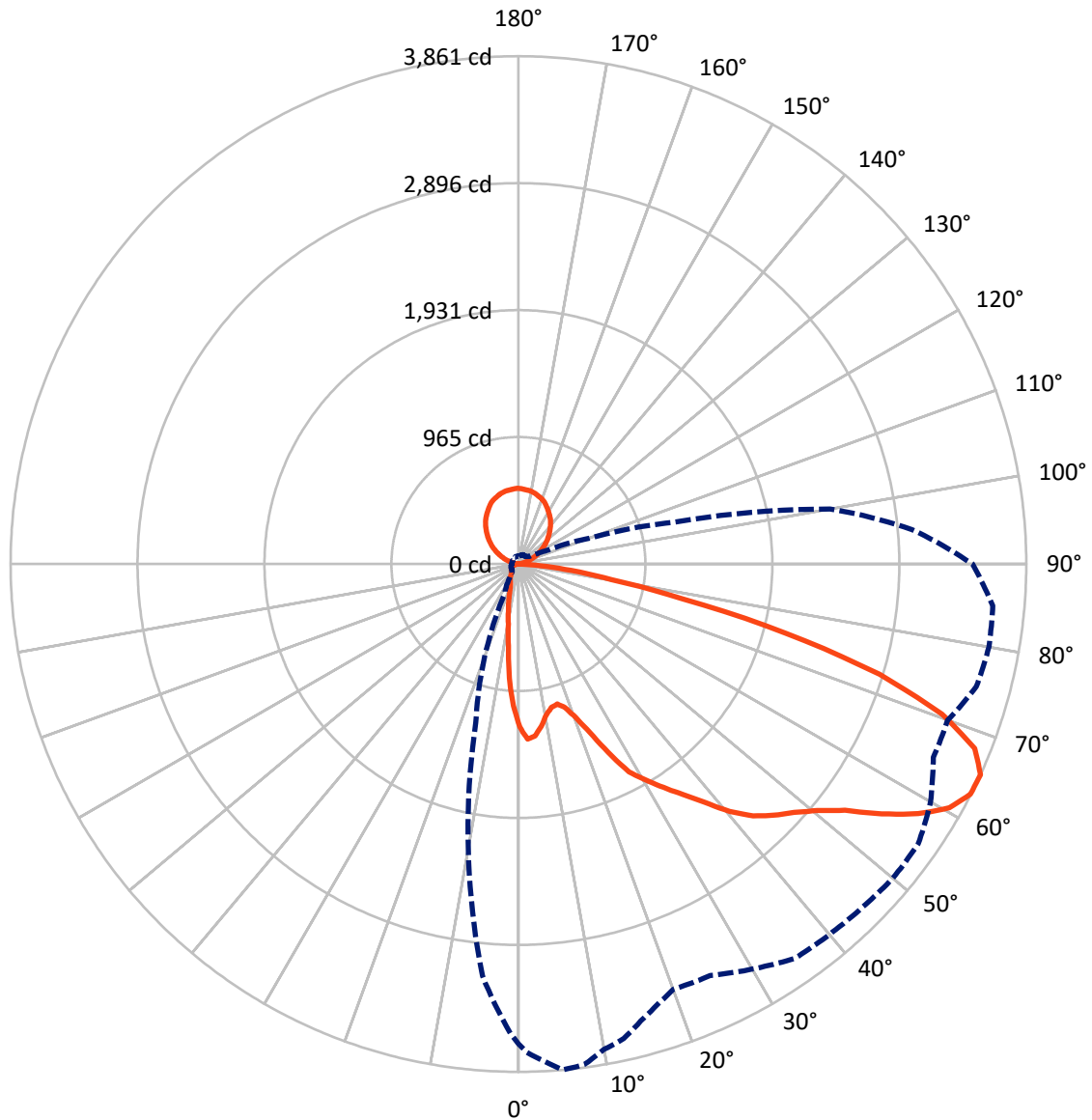
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228461
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

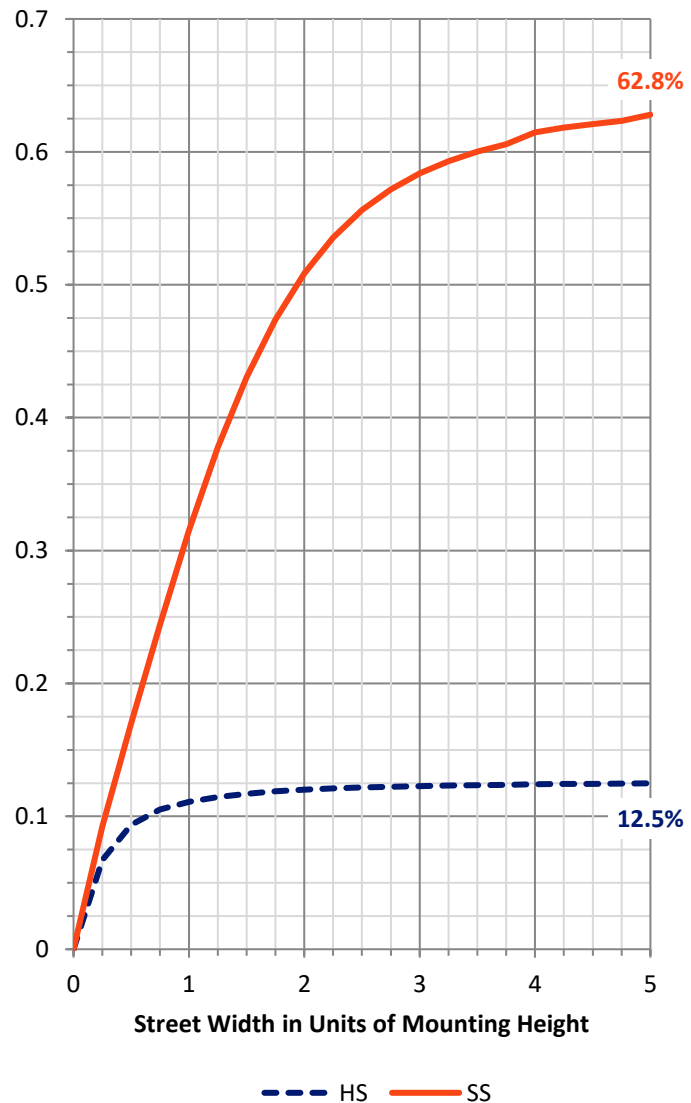
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.6	713.1	1457.7
	% Fixture	12.6	12.1	24.7
Street Side	Lumens	3733.4	713.1	4446.5
	% Fixture	63.2	12.1	75.3
Total	Lumens	4478.0	1426.2	5904.2
	% Fixture	75.8	24.2	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.6
10°-20°	196.1	3.3
20°-30°	285.0	4.8
30°-40°	421.6	7.1
40°-50°	614.2	10.4
50°-60°	920.8	15.6
60°-70°	1147.4	19.4
70°-80°	672.1	11.4
80°-90°	125.7	2.1
90°-100°	4.7	0.1
100°-110°	69.0	1.2
110°-120°	153.0	2.6
120°-130°	223.9	3.8
130°-140°	265.6	4.5
140°-150°	269.3	4.6
150°-160°	231.1	3.9
160°-170°	155.1	2.6
170°-180°	54.3	0.9
0°-90°	4478.0	75.8
0°-180°	5904.2	100.0



REPORT NUMBER: P228461

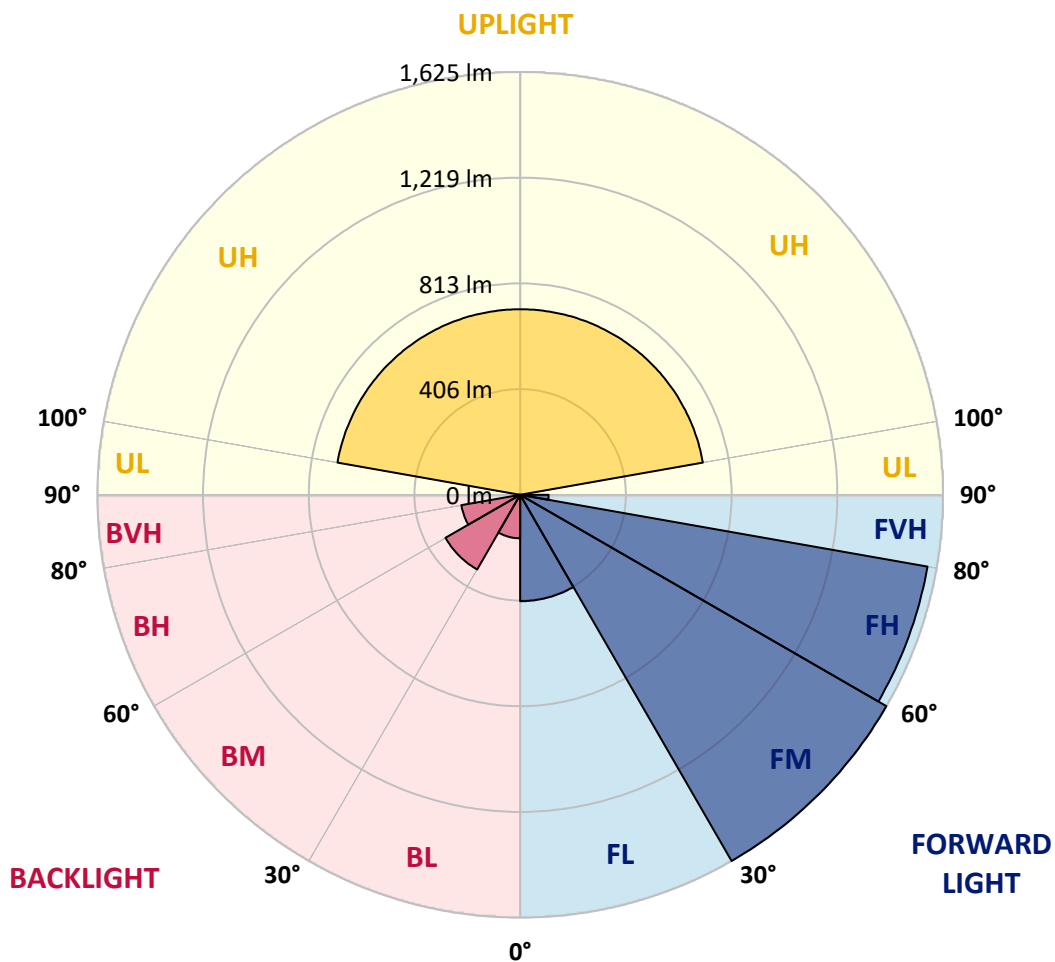
CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	409.1	6.9			
FM (30°-60°)	1625.2	27.5			
FH (60°-80°)	1589.7	26.9			G1/1800
FVH (80°-90°)	109.5	1.9			G2/225
BL (0°-30°)	167.2	2.8	B1/500		
BM (30°-60°)	331.4	5.6	B1/1000		
BH (60°-80°)	229.8	3.9	B1/500		G1/500
BVH (80°-90°)	16.2	0.3			G1/100
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	12.1		U4/1000	

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1315.5	1311.9	1333.2	1336.7	1350.9	1350.9	1366.9	1381.1	1386.4	1398.8	1430.7
5°	1272.9	1283.6	1313.7	1343.8	1365.1	1386.4	1409.4	1437.8	1460.8	1499.9	1581.4
7.5°	1179.0	1194.9	1246.3	1276.5	1310.2	1347.4	1375.8	1409.4	1444.9	1510.5	1655.9
10°	1086.8	1099.2	1164.8	1202.0	1249.9	1288.9	1329.7	1366.9	1405.9	1487.4	1655.9
12.5°	1028.3	1044.2	1118.7	1154.1	1209.1	1249.9	1299.5	1343.8	1389.9	1476.8	1639.9
15°	1015.9	1033.6	1104.5	1148.8	1196.7	1235.7	1280.0	1326.1	1372.2	1457.3	1602.7
17.5°	1049.5	1070.8	1147.1	1196.7	1233.9	1278.2	1310.2	1354.5	1384.6	1452.0	1521.1
20°	1129.3	1154.1	1244.6	1292.4	1322.6	1350.9	1375.8	1402.3	1414.8	1430.7	1418.3
22.5°	1257.0	1287.1	1389.9	1444.9	1466.2	1487.4	1489.2	1492.8	1483.9	1441.3	1345.6
25°	1439.6	1469.7	1586.7	1639.9	1639.9	1639.9	1620.4	1606.2	1565.4	1485.7	1326.1
27.5°	1609.8	1648.8	1788.8	1822.5	1811.9	1795.9	1758.7	1723.2	1664.7	1531.8	1324.3
30°	1737.4	1776.4	1905.8	1932.4	1905.8	1866.8	1808.3	1756.9	1687.8	1554.8	1336.7
32.5°	1854.4	1900.5	2024.6	2028.2	1980.3	1936.0	1870.4	1811.9	1739.2	1597.4	1374.0
35°	1978.5	2024.6	2150.5	2125.7	2056.5	1996.3	1928.9	1877.5	1804.8	1652.3	1434.3
37.5°	2150.5	2191.3	2297.6	2239.1	2150.5	2072.5	1999.8	1932.4	1859.7	1726.8	1535.3
40°	2317.1	2375.7	2473.2	2379.2	2271.1	2166.5	2086.7	2015.8	1936.0	1827.8	1664.7
42.5°	2473.2	2528.1	2618.5	2498.0	2372.1	2267.5	2184.2	2107.9	2031.7	1943.1	1820.7
45°	2591.9	2648.7	2724.9	2597.3	2453.7	2345.5	2255.1	2187.7	2120.4	2060.1	2017.5
47.5°	2707.2	2763.9	2822.4	2684.1	2542.3	2432.4	2326.0	2264.0	2210.8	2178.9	2230.3
50°	2856.1	2895.1	2944.7	2795.8	2645.1	2519.3	2412.9	2365.0	2315.4	2326.0	2498.0
52.5°	3058.2	3091.9	3109.6	2964.2	2795.8	2652.2	2535.2	2469.6	2428.8	2490.9	2781.6
55°	3343.6	3391.5	3352.5	3208.9	2996.2	2833.1	2689.5	2611.4	2586.6	2669.9	3065.3
57.5°	3590.1	3611.3	3583.0	3441.2	3223.1	3040.5	2888.0	2806.5	2778.1	2888.0	3324.1
60°	3698.2	3724.8	3763.8	3641.5	3437.6	3256.8	3125.6	3045.8	2997.9	3125.6	3531.6
62.5°	3715.9	3760.3	3856.0	3794.0	3632.6	3497.9	3379.1	3269.2	3232.0	3329.5	3668.1
65°	3646.8	3714.2	3861.3	3838.3	3747.9	3696.4	3597.2	3512.1	3441.2	3451.8	3661.0
67.5°	3490.8	3568.8	3740.8	3730.1	3740.8	3740.8	3653.9	3583.0	3490.8	3359.6	3391.5
70°	3114.9	3217.8	3416.3	3467.7	3558.2	3558.2	3481.9	3373.8	3267.4	2997.9	2834.8
72.5°	2496.2	2565.3	2870.3	3120.3	3235.5	3189.4	3114.9	2934.1	2700.1	2404.0	2182.4
75°	1689.5	1730.3	2104.4	2561.8	2771.0	2732.0	2609.7	2384.5	2143.4	1813.7	1533.5
77.5°	941.4	994.6	1274.7	1632.8	1914.7	1909.4	1893.4	1749.8	1558.4	1285.3	1140.0
80°	553.1	570.9	718.0	978.6	1221.5	1163.0	1122.2	1008.8	911.3	787.2	898.8
82.5°	338.6	320.9	407.8	595.7	721.6	696.7	627.6	585.0	539.0	505.3	597.5
85°	92.2	83.3	166.7	250.0	306.7	331.5	331.5	328.0	294.3	221.6	265.9
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	2.2	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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1443.1	1444.9	1439.6	1452.0	1437.8	1430.7	1409.4	1409.4	1391.7	1377.5	1361.6
5°	1611.5	1622.2	1613.3	1615.1	1586.7	1558.4	1515.8	1491.0	1446.7	1398.8	1349.2
7.5°	1725.0	1742.7	1735.6	1705.5	1661.2	1600.9	1530.0	1462.6	1389.9	1311.9	1239.2
10°	1755.1	1774.6	1758.7	1702.0	1629.3	1544.2	1459.1	1368.7	1280.0	1196.7	1118.7
12.5°	1712.6	1726.8	1693.1	1631.0	1560.1	1475.0	1386.4	1308.4	1203.8	1115.1	1024.7
15°	1604.5	1595.6	1592.0	1547.7	1498.1	1428.9	1345.6	1265.8	1168.3	1077.9	982.2
17.5°	1487.4	1476.8	1480.4	1462.6	1455.5	1423.6	1361.6	1294.2	1207.3	1097.4	994.6
20°	1384.6	1374.0	1379.3	1388.2	1414.8	1416.5	1405.9	1361.6	1297.7	1182.5	1056.6
22.5°	1296.0	1297.7	1315.5	1340.3	1384.6	1441.3	1485.7	1494.5	1450.2	1315.5	1157.7
25°	1269.4	1260.5	1280.0	1320.8	1395.3	1505.2	1604.5	1654.1	1629.3	1494.5	1301.3
27.5°	1260.5	1248.1	1269.4	1322.6	1441.3	1595.6	1737.4	1811.9	1820.7	1682.5	1455.5
30°	1260.5	1255.2	1276.5	1345.6	1471.5	1625.7	1783.5	1895.2	1930.7	1815.4	1590.3
32.5°	1276.5	1280.0	1317.2	1405.9	1535.3	1693.1	1856.2	1976.8	2040.6	1953.7	1698.4
35°	1311.9	1319.0	1372.2	1475.0	1615.1	1774.6	1923.6	2045.9	2148.7	2102.6	1799.5
37.5°	1388.2	1398.8	1464.4	1569.0	1696.6	1840.2	1985.6	2116.8	2265.7	2246.2	1905.8
40°	1522.9	1522.9	1588.5	1678.9	1783.5	1893.4	2037.0	2191.3	2373.9	2400.5	2037.0
42.5°	1693.1	1686.0	1728.6	1794.1	1866.8	1959.0	2088.4	2260.4	2474.9	2533.4	2136.3
45°	1927.1	1891.7	1914.7	1930.7	1966.1	2022.9	2138.1	2326.0	2556.5	2632.7	2210.8
47.5°	2201.9	2152.3	2132.8	2102.6	2090.2	2111.5	2210.8	2377.4	2634.5	2717.8	2331.3
50°	2505.1	2457.2	2405.8	2324.2	2253.3	2232.0	2292.3	2446.6	2717.8	2824.2	2464.3
52.5°	2820.6	2787.0	2719.6	2591.9	2457.2	2381.0	2409.3	2561.8	2850.8	2989.1	2622.1
55°	3109.6	3120.3	3038.7	2889.8	2696.5	2579.5	2613.2	2765.7	3091.9	3255.0	2886.2
57.5°	3419.9	3391.5	3327.7	3173.4	2962.5	2836.6	2850.8	3035.2	3361.4	3485.5	3148.6
60°	3625.5	3625.5	3556.4	3439.4	3239.0	3122.0	3143.3	3313.5	3577.7	3590.1	3265.6
62.5°	3758.5	3778.0	3723.0	3639.7	3444.7	3347.2	3419.9	3540.4	3684.0	3581.2	3207.1
65°	3694.7	3715.9	3710.6	3618.4	3480.2	3473.1	3604.3	3632.6	3620.2	3451.8	3005.0
67.5°	3405.7	3363.1	3361.4	3313.5	3285.1	3432.3	3598.9	3607.8	3398.6	3198.3	2685.9
70°	2856.1	2783.4	2755.0	2769.2	2898.7	3173.4	3411.0	3343.6	3010.3	2838.4	2287.0
72.5°	2201.9	2115.0	2097.3	2152.3	2352.6	2739.1	3063.5	2969.6	2474.9	2274.6	1771.1
75°	1561.9	1524.7	1526.4	1634.6	1850.9	2223.2	2600.8	2591.9	1833.2	1569.0	1219.7
77.5°	1136.4	1143.5	1175.4	1218.0	1404.1	1764.0	2118.6	2095.5	1304.8	1077.9	852.8
80°	937.9	948.5	948.5	925.4	973.3	1164.8	1439.6	1537.1	874.0	725.1	595.7
82.5°	673.7	726.9	757.0	719.8	702.1	767.7	902.4	966.2	544.3	457.4	416.6
85°	320.9	367.0	377.6	368.8	423.7	484.0	515.9	528.3	297.8	212.7	273.0
87.5°	0.0	0.0	1.8	14.2	39.0	67.4	67.4	102.8	16.0	5.3	12.4
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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1340.3	1317.2	1299.5	1278.2	1260.5	1242.8	1230.4	1203.8	1182.5	1134.6	1122.2
5°	1308.4	1258.7	1225.1	1193.1	1152.4	1124.0	1093.9	1056.6	1015.9	946.7	925.4
7.5°	1182.5	1120.5	1074.4	1028.3	975.1	927.2	882.9	833.3	762.3	687.9	659.5
10°	1046.0	980.4	916.6	861.6	797.8	744.6	705.6	670.1	613.4	556.7	519.5
12.5°	934.3	859.8	787.2	732.2	698.5	671.9	643.6	615.2	554.9	491.1	446.8
15°	882.9	796.0	732.2	686.1	656.0	624.1	590.4	558.5	487.5	413.1	359.9
17.5°	890.0	790.7	709.1	647.1	606.3	562.0	523.0	482.2	404.2	315.6	267.7
20°	929.0	796.0	684.3	611.6	553.1	496.4	446.8	395.4	299.6	230.5	196.8
22.5°	978.6	813.7	670.1	576.2	503.5	432.6	368.8	308.5	221.6	180.8	164.9
25°	1063.7	854.5	666.6	544.3	455.6	370.5	304.9	241.1	179.1	159.6	150.7
27.5°	1170.1	900.6	670.1	521.2	414.9	320.9	248.2	200.3	161.3	150.7	143.6
30°	1276.5	948.5	654.2	485.8	367.0	274.8	212.7	182.6	159.6	147.1	134.7
32.5°	1370.4	983.9	627.6	448.5	324.4	234.0	180.8	156.0	140.1	125.9	122.3
35°	1437.8	999.9	597.5	425.5	296.1	209.2	159.6	140.1	124.1	109.9	102.8
37.5°	1501.6	1001.7	565.5	404.2	285.4	198.6	147.1	129.4	115.2	102.8	95.7
40°	1567.2	994.6	547.8	382.9	269.5	193.2	141.8	120.6	111.7	97.5	90.4
42.5°	1615.1	982.2	540.7	370.5	255.3	179.1	138.3	118.8	106.4	95.7	86.9
45°	1659.4	969.8	540.7	359.9	244.7	170.2	131.2	120.6	102.8	94.0	83.3
47.5°	1712.6	975.1	542.5	351.0	235.8	161.3	124.1	117.0	104.6	92.2	81.6
50°	1803.0	1035.4	551.4	345.7	228.7	154.2	118.8	111.7	115.2	90.4	79.8
52.5°	1959.0	1131.1	565.5	342.2	221.6	148.9	111.7	108.1	117.0	90.4	78.0
55°	2162.9	1228.6	579.7	333.3	211.0	138.3	108.1	101.1	108.1	90.4	76.2
57.5°	2361.5	1301.3	592.1	320.9	193.2	127.6	102.8	95.7	99.3	88.6	72.7
60°	2476.7	1358.0	604.6	299.6	172.0	115.2	97.5	90.4	88.6	88.6	70.9
62.5°	2508.6	1336.7	597.5	273.0	154.2	106.4	92.2	85.1	79.8	90.4	70.9
65°	2407.6	1225.1	570.9	250.0	141.8	102.8	86.9	81.6	76.2	78.0	67.4
67.5°	2097.3	1030.0	498.2	228.7	140.1	101.1	83.3	78.0	70.9	69.1	63.8
70°	1710.8	808.4	413.1	212.7	138.3	101.1	79.8	72.7	67.4	62.1	58.5
72.5°	1315.5	604.6	347.5	205.7	140.1	99.3	74.5	65.6	60.3	56.7	53.2
75°	925.4	427.3	289.0	184.4	131.2	94.0	69.1	58.5	53.2	49.6	46.1
77.5°	670.1	290.8	214.5	148.9	111.7	81.6	60.3	49.6	44.3	42.5	39.0
80°	427.3	179.1	143.6	109.9	81.6	63.8	46.1	39.0	35.5	31.9	30.1
82.5°	246.4	104.6	86.9	74.5	53.2	42.5	33.7	30.1	23.0	21.3	19.5
85°	150.7	65.6	47.9	39.0	33.7	26.6	19.5	17.7	12.4	10.6	8.9
87.5°	33.7	14.2	12.4	8.9	10.6	8.9	5.3	3.5	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: P228461
 CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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: P228461
 NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	124.0
1102.7	1076.1	1077.9	1072.6	1058.4	1035.4	1028.3	1015.9	1017.6	1024.7	1017.6	115°	147.0
900.6	868.7	872.3	870.5	856.3	840.3	827.9	812.0	806.7	812.0	803.1	117.5°	170.0
638.2	617.0	624.1	640.0	638.2	629.4	618.7	601.0	597.5	599.2	583.3	120°	195.0
487.5	466.3	460.9	459.2	455.6	450.3	436.1	421.9	416.6	418.4	407.8	122.5°	220.0
407.8	390.0	368.8	349.3	331.5	324.4	306.7	297.8	296.1	296.1	290.8	125°	246.0
322.7	308.5	296.1	276.6	262.4	251.7	239.3	232.2	230.5	232.2	232.2	127.5°	269.0
241.1	234.0	228.7	226.9	219.8	212.7	205.7	202.1	200.3	200.3	202.1	130°	292.0
184.4	182.6	182.6	182.6	191.5	198.6	200.3	195.0	193.2	191.5	189.7	132.5°	314.0
159.6	157.8	159.6	170.2	164.9	159.6	159.6	159.6	159.6	159.6	161.3	135°	337.0
147.1	148.9	150.7	145.4	140.1	136.5	134.7	134.7	133.0	133.0	134.7	137.5°	360.0
140.1	138.3	136.5	133.0	129.4	124.1	122.3	120.6	120.6	120.6	120.6	140°	383.0
131.2	129.4	127.6	124.1	118.8	111.7	109.9	109.9	108.1	109.9	109.9	142.5°	406.0
120.6	118.8	117.0	113.5	108.1	104.6	102.8	99.3	99.3	99.3	101.1	145°	426.0
97.5	95.7	95.7	97.5	97.5	95.7	95.7	92.2	92.2	92.2	92.2	147.5°	444.0
90.4	88.6	88.6	86.9	88.6	90.4	88.6	86.9	86.9	85.1	85.1	150°	462.0
85.1	85.1	83.3	81.6	81.6	85.1	83.3	81.6	79.8	79.8	79.8	152.5°	480.0
81.6	79.8	79.8	78.0	78.0	78.0	76.2	74.5	72.7	72.7	72.7	155°	500.0
78.0	78.0	76.2	74.5	72.7	72.7	69.1	67.4	67.4	67.4	69.1	157.5°	515.0
76.2	74.5	74.5	72.7	70.9	67.4	65.6	63.8	63.8	63.8	63.8	160°	527.0
74.5	72.7	70.9	70.9	67.4	65.6	63.8	62.1	62.1	62.1	62.1	162.5°	536.0
72.7	70.9	69.1	67.4	65.6	63.8	62.1	60.3	60.3	60.3	60.3	165°	547.0
69.1	67.4	67.4	65.6	65.6	63.8	62.1	60.3	60.3	60.3	58.5	167.5°	556.0
67.4	65.6	63.8	63.8	63.8	62.1	60.3	58.5	58.5	58.5	58.5	170°	563.0
65.6	63.8	63.8	62.1	62.1	60.3	60.3	58.5	56.7	56.7	55.0	172.5°	566.0
63.8	62.1	62.1	60.3	62.1	60.3	58.5	56.7	55.0	55.0	53.2	175°	569.0
62.1	60.3	60.3	60.3	58.5	58.5	56.7	53.2	53.2	53.2	51.4	177.5°	573.0
58.5	56.7	56.7	58.5	56.7	55.0	55.0	51.4	51.4	49.6	49.6	180°	576.0
53.2	53.2	53.2	55.0	53.2	51.4	51.4	49.6	47.9	46.1	46.1		
49.6	47.9	49.6	49.6	49.6	47.9	49.6	46.1	44.3	42.5	42.5		
42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	40.8	39.0	37.2		
33.7	35.5	35.5	35.5	35.5	37.2	35.5	35.5	35.5	33.7	31.9		
24.8	24.8	26.6	28.4	26.6	28.4	26.6	28.4	26.6	26.6	26.6		
14.2	14.2	16.0	17.7	17.7	19.5	16.0	17.7	17.7	19.5	17.7		
5.3	5.3	5.3	5.3	7.1	7.1	5.3	7.1	7.1	8.9	8.9		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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		

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 ISS-AF-1200-LED-E1-SLL-8030-ULG

REPORT NUMBER: P228461
 CATALOG NUMBER: ISS-AF-12

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°	1239.2	1239.2
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	1031.8	1031.8
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	810.2	808.4
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	588.6	583.3
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	411.3	397.1
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	297.8	292.5
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	235.8	235.8
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	203.9	203.9
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	187.9	186.2
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	161.3	159.6
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	133.0	133.0
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	120.6	120.6
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	109.9	111.7
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	101.1	101.1
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	90.4	90.4
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	83.3	81.6
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	76.2	76.2
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	70.9	70.9
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	67.4	67.4
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	65.6	65.6
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	62.1	62.1
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	60.3	60.3
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	58.5	60.3
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	56.7	56.7
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	55.0	55.0
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	53.2	53.2
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	51.4	51.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	47.9	47.9
										70°	44.3	44.3
										72.5°	40.8	40.8
										75°	37.2	35.5
										77.5°	31.9	30.1
										80°	26.6	24.8
										82.5°	19.5	17.7
										85°	8.9	8.9
										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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1

00-LED-E1-SLL-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	136.0	136.0	136.0
1010.5	1014.1	1017.6	1024.7	1021.2	1019.4	1017.6	1028.3	1033.6	115°	158.0	158.0	158.0
781.8	780.1	785.4	787.2	781.8	773.0	767.7	769.4	774.7	117.5°	180.5	180.8	181.0
558.5	554.9	553.1	554.9	549.6	540.7	533.6	535.4	540.7	120°	204.0	204.0	204.0
393.6	395.4	398.9	402.4	402.4	402.4	404.2	414.9	427.3	122.5°	228.0	228.0	228.0
296.1	299.6	306.7	312.0	317.3	319.1	320.9	335.1	345.7	125°	253.5	253.8	254.0
239.3	241.1	244.7	248.2	251.7	251.7	253.5	258.8	267.7	127.5°	277.5	277.2	277.0
203.9	203.9	203.9	202.1	200.3	196.8	195.0	193.2	195.0	130°	301.0	301.0	301.0
182.6	180.8	177.3	173.7	172.0	166.7	164.9	159.6	157.8	132.5°	325.0	325.0	325.0
159.6	159.6	159.6	157.8	156.0	154.2	150.7	145.4	141.8	135°	348.0	348.0	348.0
133.0	134.7	134.7	136.5	140.1	140.1	140.1	140.1	134.7	137.5°	369.0	369.0	369.0
120.6	120.6	122.3	122.3	124.1	124.1	124.1	125.9	127.6	140°	390.0	390.0	390.0
111.7	113.5	113.5	115.2	115.2	117.0	117.0	118.8	118.8	142.5°	412.0	412.0	412.0
102.8	104.6	104.6	104.6	108.1	108.1	106.4	108.1	108.1	145°	433.5	433.2	433.0
90.4	90.4	90.4	90.4	90.4	90.4	86.9	85.1	86.9	147.5°	453.0	452.5	452.0
81.6	79.8	78.0	78.0	78.0	79.8	78.0	79.8	79.8	150°	470.0	469.5	469.0
74.5	74.5	74.5	74.5	74.5	74.5	74.5	76.2	78.0	152.5°	486.5	486.2	486.0
70.9	70.9	70.9	70.9	70.9	70.9	70.9	72.7	72.7	155°	503.5	503.2	503.0
67.4	67.4	69.1	69.1	69.1	69.1	69.1	69.1	70.9	157.5°	518.0	517.5	517.0
65.6	65.6	65.6	65.6	65.6	65.6	65.6	67.4	69.1	160°	531.0	530.5	530.0
63.8	63.8	63.8	63.8	63.8	63.8	63.8	65.6	67.4	162.5°	541.0	540.5	540.0
60.3	62.1	62.1	62.1	62.1	62.1	62.1	62.1	63.8	165°	551.5	550.8	550.0
60.3	60.3	60.3	60.3	58.5	58.5	58.5	58.5	60.3	167.5°	559.0	558.5	558.0
58.5	58.5	58.5	56.7	56.7	55.0	55.0	55.0	58.5	170°	564.5	564.2	564.0
55.0	55.0	55.0	53.2	53.2	53.2	53.2	55.0	55.0	172.5°	568.0	567.5	567.0
51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	175°	571.5	570.8	570.0
49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	177.5°	575.5	574.8	574.0
47.9	46.1	46.1	46.1	46.1	47.9	46.1	46.1	46.1	180°	576.0	576.0	576.0
44.3	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5				
40.8	40.8	39.0	39.0	39.0	39.0	39.0	39.0	39.0				
35.5	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7				
30.1	30.1	28.4	28.4	28.4	28.4	28.4	28.4	28.4				
24.8	23.0	23.0	23.0	23.0	23.0	23.0	21.3	21.3				
17.7	17.7	17.7	16.0	16.0	16.0	16.0	14.2	12.4				
7.1	8.9	8.9	10.6	8.9	8.9	8.9	7.1	3.5				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-

-SLL-8030-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°	1239.2	1239.2	1239.2	1239.2
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	1030.0	1047.8	1049.5	1038.9
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	767.7	790.7	788.9	774.7
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	542.5	562.0	560.2	558.5
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	439.7	457.4	462.7	475.1
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	356.3	377.6	382.9	397.1
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	274.8	292.5	297.8	308.5
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	202.1	212.7	216.3	223.4
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	157.8	161.3	163.1	164.9
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	141.8	143.6	143.6	145.4
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	131.2	133.0	133.0	134.7
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	125.9	125.9	125.9	125.9
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	120.6	120.6	120.6	122.3
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	111.7	108.1	111.7	109.9
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	86.9	86.9	88.6	90.4
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	81.6	83.3	83.3	85.1
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	78.0	79.8	81.6	83.3
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	74.5	78.0	78.0	79.8
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	72.7	74.5	76.2	78.0
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	70.9	72.7	74.5	76.2
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	67.4	70.9	72.7	74.5
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	65.6	69.1	69.1	72.7
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	62.1	65.6	65.6	69.1
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	58.5	62.1	63.8	65.6
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	56.7	58.5	60.3	62.1
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	53.2	56.7	58.5	60.3
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	51.4	55.0	55.0	58.5
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	47.9	51.4	51.4	53.2
								70°	44.3	46.1	47.9	49.6
								72.5°	40.8	42.5	42.5	44.3
								75°	33.7	35.5	37.2	39.0
								77.5°	28.4	28.4	31.9	31.9
								80°	21.3	21.3	23.0	24.8
								82.5°	12.4	12.4	14.2	14.2
								85°	3.5	3.5	3.5	3.5
								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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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°
1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	137.0	136.0	135.5	135.0	135.2
1060.2	1063.7	1058.4	1058.4	1062.0	1076.1	1076.1	115°	160.0	159.0	158.5	158.0	158.0
803.1	812.0	806.7	808.4	815.5	831.5	840.3	117.5°	182.0	181.0	180.5	180.0	180.2
576.2	583.3	586.8	592.1	613.4	615.2	625.8	120°	206.0	205.0	204.5	204.0	204.0
480.4	491.1	498.2	507.0	524.8	533.6	546.0	122.5°	233.0	231.0	230.0	229.0	228.8
404.2	416.6	423.7	441.4	452.1	462.7	478.7	125°	257.0	255.5	254.8	254.0	254.0
315.6	329.8	336.8	347.5	368.8	379.4	400.7	127.5°	281.0	279.5	278.8	278.0	277.8
228.7	234.0	248.2	265.9	278.3	296.1	306.7	130°	305.0	303.5	302.8	302.0	301.8
168.4	172.0	179.1	191.5	198.6	212.7	223.4	132.5°	329.0	327.5	326.8	326.0	325.8
145.4	147.1	150.7	154.2	157.8	163.1	168.4	135°	351.0	350.0	349.5	349.0	348.8
134.7	136.5	138.3	140.1	143.6	145.4	147.1	137.5°	374.0	372.0	371.0	370.0	369.8
127.6	127.6	129.4	133.0	133.0	136.5	138.3	140°	396.0	394.0	393.0	392.0	391.5
124.1	127.6	131.2	136.5	138.3	141.8	143.6	142.5°	416.0	414.5	413.8	413.0	412.8
106.4	106.4	108.1	111.7	111.7	113.5	115.2	145°	437.0	435.5	434.8	434.0	433.8
90.4	92.2	94.0	95.7	97.5	101.1	102.8	147.5°	456.0	454.5	453.8	453.0	452.8
86.9	86.9	88.6	92.2	94.0	95.7	97.5	150°	473.0	471.0	470.0	469.0	469.0
83.3	85.1	86.9	88.6	90.4	94.0	95.7	152.5°	489.0	487.5	486.8	486.0	486.0
81.6	83.3	85.1	86.9	90.4	92.2	94.0	155°	507.0	505.5	504.8	504.0	503.8
79.8	81.6	83.3	86.9	88.6	92.2	94.0	157.5°	523.0	520.5	519.2	518.0	517.8
78.0	79.8	81.6	85.1	88.6	92.2	95.7	160°	533.0	531.5	530.8	530.0	530.0
76.2	78.0	81.6	85.1	88.6	94.0	102.8	162.5°	540.0	539.0	538.5	538.0	538.5
74.5	78.0	81.6	85.1	90.4	97.5	106.4	165°	550.0	549.0	548.5	548.0	548.5
72.7	76.2	78.0	83.3	88.6	95.7	97.5	167.5°	563.0	561.0	560.0	559.0	558.8
69.1	72.7	74.5	79.8	86.9	88.6	86.9	170°	571.0	568.5	567.2	566.0	565.5
65.6	67.4	72.7	83.3	90.4	83.3	74.5	172.5°	571.0	569.5	568.8	568.0	567.8
63.8	65.6	69.1	76.2	78.0	69.1	67.4	175°	571.0	569.5	568.8	568.0	568.5
60.3	60.3	62.1	62.1	62.1	62.1	62.1	177.5°	577.0	575.5	574.8	574.0	574.0
55.0	55.0	56.7	56.7	56.7	56.7	56.7	180°	576.0	576.0	576.0	576.0	576.0
49.6	49.6	51.4	51.4	51.4	53.2	53.2						
44.3	46.1	46.1	47.9	47.9	47.9	49.6						
39.0	40.8	40.8	40.8	40.8	42.5	42.5						
33.7	33.7	35.5	35.5	35.5	35.5	35.5						
26.6	26.6	26.6	26.6	26.6	26.6	26.6						
16.0	16.0	17.7	16.0	16.0	14.2	14.2						
3.5	3.5	3.5	1.8	1.8	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	0.0						
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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	1102.7	1102.7	1106.3	1120.5	1124.0	1132.9
180.5	180.8	181.0	180.8	180.5	180.2	5°	872.3	879.3	890.0	907.7	918.3	937.9
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	650.6	661.3	670.1	689.6	705.6	725.1
228.5	228.2	228.0	228.0	228.0	228.0	10°	563.8	572.6	585.0	597.5	613.4	622.3
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	501.7	514.1	526.5	544.3	560.2	576.2
277.5	277.2	277.0	277.2	277.5	277.8	15°	425.5	439.7	453.9	473.4	496.4	512.4
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	329.8	345.7	365.2	391.8	416.6	436.1
325.5	325.2	325.0	325.0	325.0	325.0	20°	242.9	257.1	274.8	297.8	315.6	349.3
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	179.1	187.9	202.1	219.8	239.3	269.5
369.5	369.2	369.0	369.0	369.0	369.0	25°	150.7	154.2	159.6	170.2	182.6	203.9
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	140.1	141.8	145.4	150.7	157.8	168.4
412.5	412.2	412.0	412.0	412.0	412.0	30°	147.1	147.1	147.1	148.9	152.5	157.8
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	118.8	120.6	120.6	124.1	125.9	133.0
452.5	452.2	452.0	452.5	453.0	453.5	35°	106.4	108.1	109.9	111.7	115.2	117.0
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	101.1	102.8	104.6	104.6	106.4	109.9
486.0	486.0	486.0	486.2	486.5	486.8	40°	99.3	99.3	99.3	99.3	102.8	106.4
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	95.7	95.7	95.7	97.5	102.8	109.9
517.5	517.2	517.0	517.5	518.0	518.5	45°	95.7	95.7	97.5	104.6	106.4	106.4
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	99.3	102.8	104.6	102.8	101.1	101.1
539.0	539.5	540.0	540.5	541.0	541.5	50°	108.1	106.4	99.3	97.5	97.5	94.0
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	106.4	99.3	97.5	94.0	90.4	88.6
558.5	558.2	558.0	558.5	559.0	559.5	55°	95.7	94.0	88.6	85.1	83.3	85.1
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	83.3	81.6	78.0	78.0	79.8	81.6
567.5	567.2	567.0	567.5	568.0	568.5	60°	72.7	72.7	72.7	74.5	76.2	78.0
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	65.6	67.4	67.4	70.9	72.7	74.5
574.0	574.0	574.0	574.8	575.5	576.2	65°	62.1	63.8	65.6	65.6	67.4	69.1
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	58.5	58.5	60.3	62.1	63.8	65.6
						70°	53.2	55.0	56.7	58.5	58.5	60.3
						72.5°	49.6	49.6	51.4	53.2	53.2	56.7
						75°	42.5	44.3	44.3	44.3	46.1	49.6
						77.5°	37.2	35.5	37.2	37.2	39.0	40.8
						80°	26.6	24.8	24.8	26.6	26.6	26.6
						82.5°	14.2	12.4	14.2	12.4	12.4	14.2
						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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
1239.2	1239.2	1239.2	1239.2	1239.2	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
1131.1	1147.1	1154.1	1196.7	1241.0	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
934.3	966.2	971.5	1049.5	1125.8	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
730.4	767.7	778.3	881.1	987.5	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
636.5	654.2	666.6	742.8	865.2	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
590.4	608.1	624.1	686.1	781.8	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
528.3	547.8	567.3	643.6	755.2	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
452.1	478.7	503.5	595.7	742.8	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
367.0	398.9	429.0	544.3	725.1	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
289.0	317.3	351.0	496.4	725.1	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
223.4	251.7	285.4	453.9	744.6	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
182.6	205.7	239.3	420.2	773.0	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
164.9	179.1	200.3	370.5	792.5	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
140.1	150.7	170.2	340.4	804.9	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
124.1	136.5	156.0	320.9	803.1	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
115.2	127.6	150.7	313.8	803.1	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
115.2	127.6	147.1	306.7	808.4	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
113.5	120.6	136.5	303.2	817.3	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
108.1	113.5	129.4	303.2	835.0	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
101.1	108.1	124.1	308.5	868.7	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
95.7	102.8	122.3	308.5	937.9	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
90.4	101.1	120.6	304.9	1037.1	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
88.6	97.5	117.0	301.4	1159.5	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
86.9	94.0	108.1	292.5	1257.0	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
83.3	88.6	99.3	276.6	1322.6	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
78.0	83.3	90.4	258.8	1336.7	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
74.5	79.8	90.4	244.7	1249.9	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
69.1	78.0	92.2	232.2	1060.2	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
65.6	78.0	94.0	226.9	842.1								
62.1	76.2	95.7	218.1	634.7								
56.7	69.1	83.3	180.8	429.0								
46.1	53.2	62.1	115.2	226.9								
30.1	31.9	35.5	70.9	125.9								
14.2	17.7	17.7	33.7	56.7								
0.0	0.0	0.0	3.5	12.4								
0.0	0.0	0.0	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: P228461
 CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	1239.2	1239.2	1239.2
154.5	154.0	151.0	149.0	2.5°	1283.6	1304.8	1315.5
177.5	177.0	174.0	172.0	5°	1214.4	1258.7	1272.9
201.2	201.0	198.0	196.0	7.5°	1109.8	1159.5	1179.0
226.2	226.0	223.0	221.0	10°	1005.2	1067.3	1086.8
251.2	251.0	248.0	247.0	12.5°	943.2	1017.6	1028.3
274.5	274.0	272.0	270.0	15°	918.3	994.6	1015.9
298.2	298.0	294.0	293.0	17.5°	943.2	1028.3	1049.5
321.2	321.0	318.0	317.0	20°	991.0	1095.6	1129.3
345.0	345.0	341.0	339.0	22.5°	1072.6	1214.4	1257.0
367.0	367.0	364.0	363.0	25°	1205.6	1402.3	1439.6
388.2	388.0	386.0	385.0	27.5°	1347.4	1551.3	1609.8
410.0	410.0	407.0	408.0	30°	1471.5	1689.5	1737.4
431.2	431.0	428.0	428.0	32.5°	1560.1	1799.5	1854.4
452.2	452.0	448.0	447.0	35°	1664.7	1925.3	1978.5
469.2	469.0	465.0	464.0	37.5°	1785.3	2077.8	2150.5
485.2	485.0	482.0	483.0	40°	1918.3	2235.6	2317.1
503.0	503.0	501.0	502.0	42.5°	2038.8	2382.7	2473.2
519.0	519.0	516.0	517.0	45°	2132.8	2521.0	2591.9
532.0	532.0	529.0	529.0	47.5°	2240.9	2627.4	2707.2
541.0	541.0	538.0	539.0	50°	2389.8	2762.1	2856.1
552.0	552.0	548.0	549.0	52.5°	2607.9	2990.8	3058.2
560.8	561.0	558.0	559.0	55°	2872.1	3267.4	3343.6
566.8	567.0	565.0	566.0	57.5°	3114.9	3524.5	3590.1
568.8	569.0	567.0	569.0	60°	3271.0	3643.3	3698.2
572.0	572.0	569.0	570.0	62.5°	3272.7	3646.8	3715.9
577.8	578.0	574.0	575.0	65°	3143.3	3568.8	3646.8
576.0	576.0	576.0	576.0	67.5°	2815.3	3370.2	3490.8
				70°	2377.4	2980.2	3114.9
				72.5°	1854.4	2342.0	2496.2
				75°	1257.0	1554.8	1689.5
				77.5°	799.6	897.1	941.4
				80°	471.6	530.1	553.1
				82.5°	292.5	315.6	338.6
				85°	118.8	85.1	92.2
				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: P228461

CATALOG NUMBER: ISS-AF-1200-LED-E1-SLL-8030-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)