

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: P228458

Luminaire Tested: **ISS-AF-350-LED-E1-SLL-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228458
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-350-LED-E1-SLL-7050-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) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3416.2 lumens
Efficiency: N/A
Efficacy: 92.9 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: B0 - U5 - G1

Input Watts (W): 36.79
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

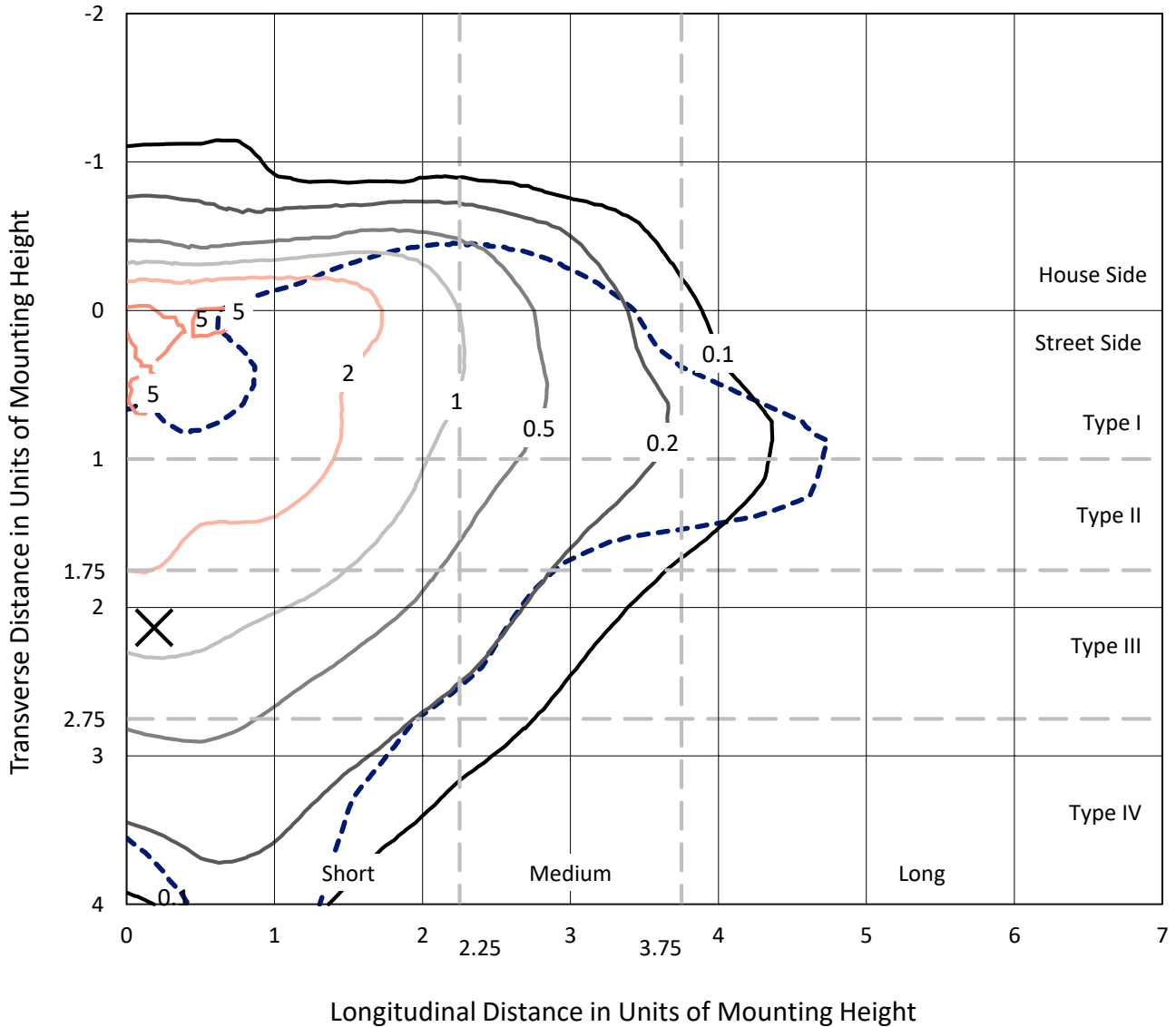


REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

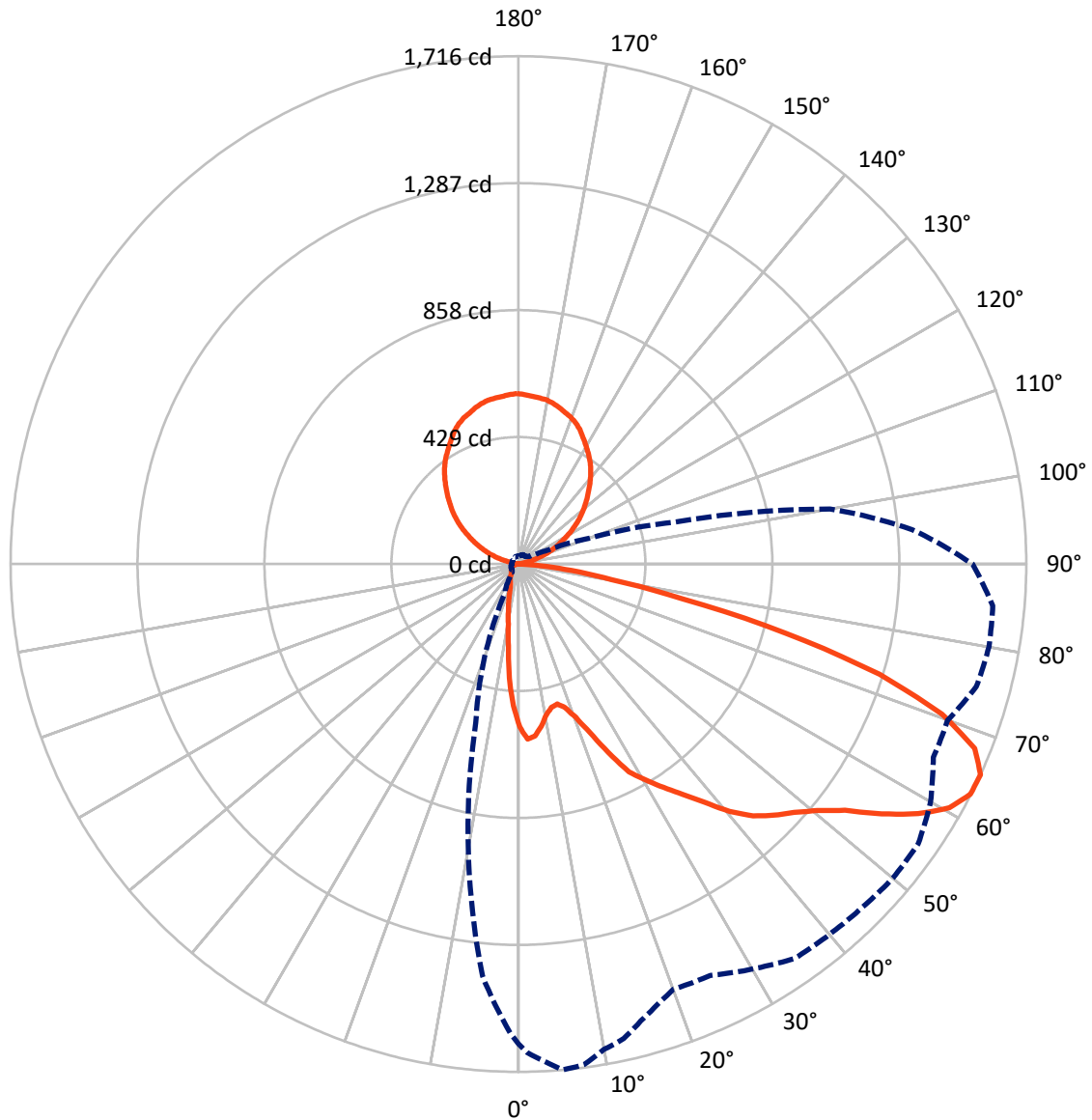


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral

- - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

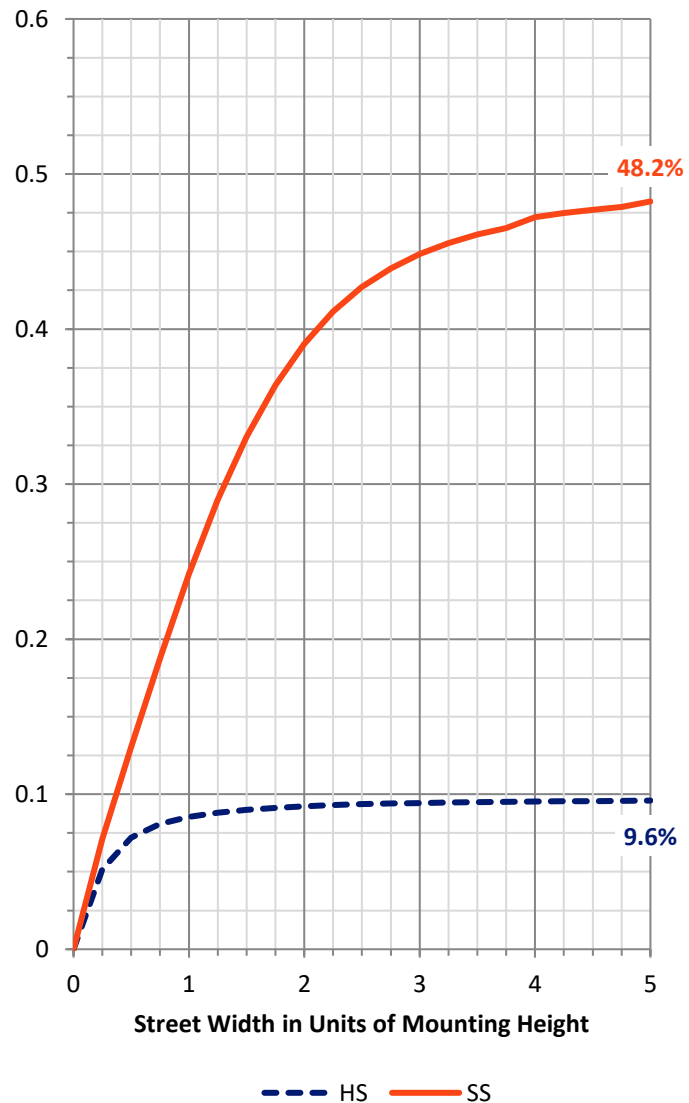
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.9	713.1	1044.0
	% Fixture	9.7	20.9	30.6
Street Side	Lumens	1659.1	713.1	2372.2
	% Fixture	48.6	20.9	69.4
Total	Lumens	1990.0	1426.2	3416.2
	% Fixture	58.3	41.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.2
10°-20°	87.1	2.6
20°-30°	126.7	3.7
30°-40°	187.3	5.5
40°-50°	273.0	8.0
50°-60°	409.2	12.0
60°-70°	509.9	14.9
70°-80°	298.7	8.7
80°-90°	55.9	1.6
90°-100°	4.7	0.1
100°-110°	69.0	2.0
110°-120°	153.0	4.5
120°-130°	223.9	6.6
130°-140°	265.6	7.8
140°-150°	269.3	7.9
150°-160°	231.1	6.8
160°-170°	155.1	4.5
170°-180°	54.3	1.6
0°-90°	1990.0	58.3
0°-180°	3416.2	100.0

Coefficient of Utilization



REPORT NUMBER: P228458

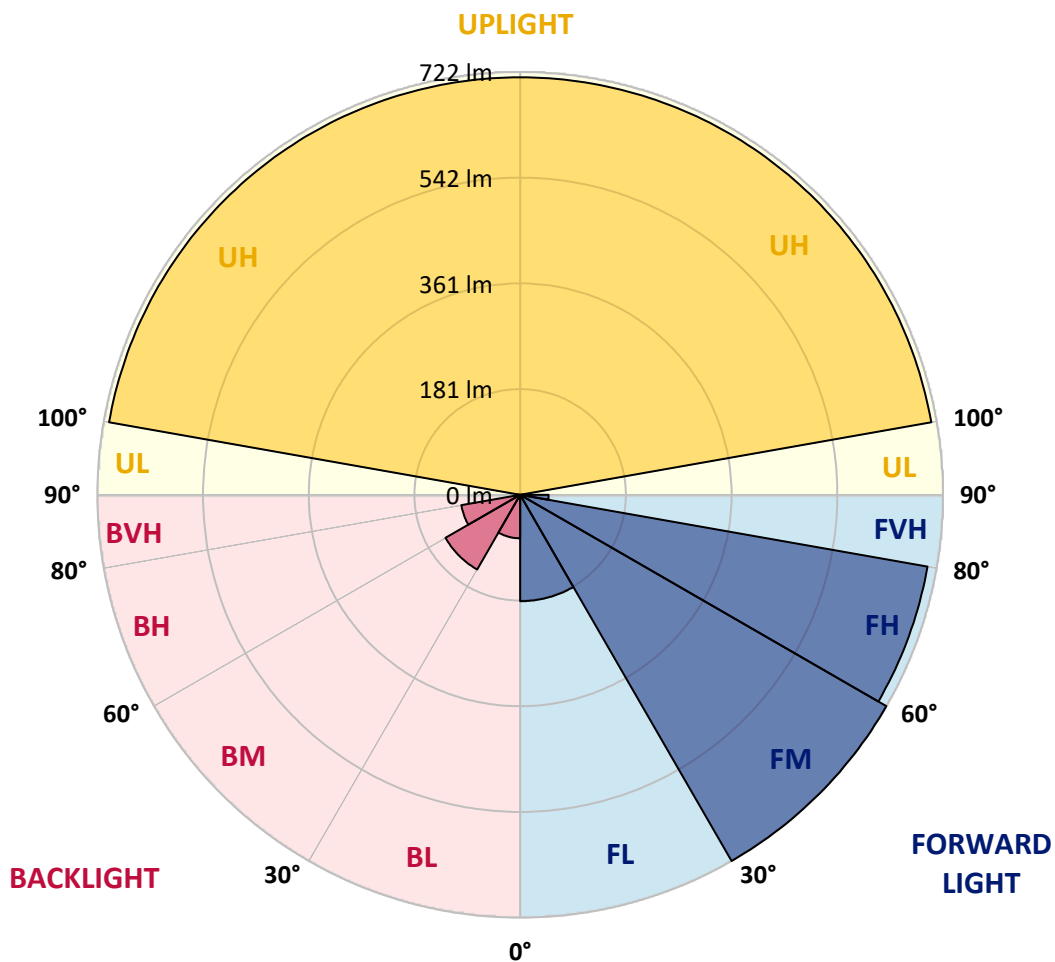
CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	181.8	5.3			
FM	(30°-60°)	722.2	21.1			
FH	(60°-80°)	706.4	20.7			G1/1800
FVH	(80°-90°)	48.7	1.4			G1/100
BL	(0°-30°)	74.3	2.2	B0/110		
BM	(30°-60°)	147.3	4.3	B0/220		
BH	(60°-80°)	102.1	3.0	B0/110		G0/110
BVH	(80°-90°)	7.2	0.2			G0/10
UL	(90°-100°)	4.7	0.1		U1/10	
UH	(100°-180°)	713.1	20.9		U4/1000	

BUG Rating: B0-U5-G1

Type IV Short





REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	7.5°	10°	12.5°	15°	17.5°	20°	25°	35°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	584.6	583.0	592.5	594.0	600.3	600.3	607.4	613.7	616.1	621.6	635.8
5°	565.7	570.4	583.8	597.2	606.6	616.1	626.3	639.0	649.2	666.5	702.8
7.5°	523.9	531.0	553.9	567.3	582.2	598.8	611.4	626.3	642.1	671.3	735.9
10°	483.0	488.5	517.6	534.2	555.4	572.8	590.9	607.4	624.8	661.0	735.9
12.5°	457.0	464.0	497.1	512.9	537.3	555.4	577.5	597.2	617.7	656.3	728.8
15°	451.4	459.3	490.8	510.5	531.8	549.1	568.8	589.3	609.8	647.6	712.2
17.5°	466.4	475.9	509.7	531.8	548.3	568.0	582.2	601.9	615.3	645.3	676.0
20°	501.9	512.9	553.1	574.3	587.7	600.3	611.4	623.2	628.7	635.8	630.3
22.5°	558.6	572.0	617.7	642.1	651.6	661.0	661.8	663.4	659.4	640.5	598.0
25°	639.7	653.1	705.1	728.8	728.8	728.8	720.1	713.8	695.7	660.2	589.3
27.5°	715.4	732.7	794.9	809.9	805.2	798.1	781.6	765.8	739.8	680.7	588.5
30°	772.1	789.4	846.9	858.8	846.9	829.6	803.6	780.8	750.0	691.0	594.0
32.5°	824.1	844.6	899.7	901.3	880.0	860.3	831.2	805.2	772.9	709.9	610.6
35°	879.2	899.7	955.7	944.6	913.9	887.1	857.2	834.3	802.0	734.3	637.4
37.5°	955.7	973.8	1021.1	995.1	955.7	921.0	888.7	858.8	826.5	767.4	682.3
40°	1029.7	1055.7	1099.1	1057.3	1009.2	962.8	927.3	895.8	860.3	812.3	739.8
42.5°	1099.1	1123.5	1163.7	1110.1	1054.2	1007.7	970.6	936.8	902.9	863.5	809.1
45°	1151.8	1177.1	1210.9	1154.2	1090.4	1042.3	1002.2	972.2	942.3	915.5	896.6
47.5°	1203.1	1228.3	1254.3	1192.8	1129.8	1080.9	1033.7	1006.1	982.5	968.3	991.1
50°	1269.2	1286.6	1308.6	1242.4	1175.5	1119.5	1072.3	1051.0	1028.9	1033.7	1110.1
52.5°	1359.1	1374.0	1381.9	1317.3	1242.4	1178.6	1126.6	1097.5	1079.4	1106.9	1236.1
55°	1485.9	1507.2	1489.8	1426.0	1331.5	1259.0	1195.2	1160.5	1149.5	1186.5	1362.2
57.5°	1595.4	1604.9	1592.3	1529.2	1432.3	1351.2	1283.4	1247.2	1234.6	1283.4	1477.2
60°	1643.5	1655.3	1672.6	1618.3	1527.7	1447.3	1389.0	1353.5	1332.3	1389.0	1569.4
62.5°	1651.3	1671.0	1713.6	1686.0	1614.3	1554.4	1501.7	1452.8	1436.3	1479.6	1630.1
65°	1620.6	1650.6	1716.0	1705.7	1665.5	1642.7	1598.6	1560.7	1529.2	1534.0	1626.9
67.5°	1551.3	1586.0	1662.4	1657.6	1662.4	1662.4	1623.8	1592.3	1551.3	1493.0	1507.2
70°	1384.3	1430.0	1518.2	1541.0	1581.2	1581.2	1547.4	1499.3	1452.0	1332.3	1259.8
72.5°	1109.3	1140.0	1275.5	1386.6	1437.8	1417.4	1384.3	1303.9	1199.9	1068.3	969.9
75°	750.8	768.9	935.2	1138.5	1231.4	1214.1	1159.7	1059.7	952.5	806.0	681.5
77.5°	418.4	442.0	566.5	725.6	850.9	848.5	841.4	777.6	692.5	571.2	506.6
80°	245.8	253.7	319.1	434.9	542.8	516.8	498.7	448.3	405.0	349.8	399.4
82.5°	150.5	142.6	181.2	264.7	320.7	309.6	278.9	260.0	239.5	224.5	265.5
85°	41.0	37.0	74.1	111.1	136.3	147.3	147.3	145.8	130.8	98.5	118.2
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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	641.3	642.1	639.7	645.3	639.0	635.8	626.3	626.3	618.5	612.2	605.1
5°	716.2	720.9	716.9	717.7	705.1	692.5	673.6	662.6	642.9	621.6	599.6
7.5°	766.6	774.5	771.3	757.9	738.2	711.4	679.9	650.0	617.7	583.0	550.7
10°	780.0	788.6	781.6	756.3	724.0	686.2	648.4	608.2	568.8	531.8	497.1
12.5°	761.1	767.4	752.4	724.8	693.3	655.5	616.1	581.4	535.0	495.6	455.4
15°	713.0	709.1	707.5	687.8	665.7	635.0	598.0	562.5	519.2	479.0	436.5
17.5°	661.0	656.3	657.9	650.0	646.8	632.6	605.1	575.1	536.5	487.7	442.0
20°	615.3	610.6	613.0	616.9	628.7	629.5	624.8	605.1	576.7	525.5	469.6
22.5°	575.9	576.7	584.6	595.6	615.3	640.5	660.2	664.2	644.5	584.6	514.5
25°	564.1	560.2	568.8	587.0	620.0	668.9	713.0	735.1	724.0	664.2	578.3
27.5°	560.2	554.7	564.1	587.7	640.5	709.1	772.1	805.2	809.1	747.7	646.8
30°	560.2	557.8	567.3	598.0	653.9	722.5	792.6	842.2	858.0	806.8	706.7
32.5°	567.3	568.8	585.4	624.8	682.3	752.4	824.9	878.5	906.8	868.2	754.8
35°	583.0	586.2	609.8	655.5	717.7	788.6	854.8	909.2	954.9	934.4	799.7
37.5°	616.9	621.6	650.8	697.3	754.0	817.8	882.4	940.7	1006.9	998.2	846.9
40°	676.8	676.8	705.9	746.1	792.6	841.4	905.2	973.8	1054.9	1066.8	905.2
42.5°	752.4	749.3	768.2	797.3	829.6	870.6	928.1	1004.5	1099.8	1125.8	949.4
45°	856.4	840.6	850.9	858.0	873.7	898.9	950.2	1033.7	1136.1	1170.0	982.5
47.5°	978.5	956.5	947.8	934.4	928.9	938.3	982.5	1056.5	1170.8	1207.8	1036.0
50°	1113.2	1092.0	1069.1	1032.9	1001.4	991.9	1018.7	1087.2	1207.8	1255.1	1095.1
52.5°	1253.5	1238.5	1208.6	1151.8	1092.0	1058.1	1070.7	1138.5	1266.9	1328.3	1165.2
55°	1381.9	1386.6	1350.4	1284.2	1198.3	1146.3	1161.3	1229.1	1374.0	1446.5	1282.6
57.5°	1519.8	1507.2	1478.8	1410.3	1316.5	1260.6	1266.9	1348.8	1493.8	1548.9	1399.2
60°	1611.2	1611.2	1580.4	1528.4	1439.4	1387.4	1396.9	1472.5	1589.9	1595.4	1451.2
62.5°	1670.3	1678.9	1654.5	1617.5	1530.8	1487.5	1519.8	1573.3	1637.2	1591.5	1425.2
65°	1641.9	1651.3	1649.0	1608.0	1546.6	1543.4	1601.7	1614.3	1608.8	1534.0	1335.4
67.5°	1513.5	1494.6	1493.8	1472.5	1459.9	1525.3	1599.3	1603.3	1510.3	1421.3	1193.6
70°	1269.2	1236.9	1224.3	1230.6	1288.1	1410.3	1515.8	1485.9	1337.8	1261.4	1016.3
72.5°	978.5	939.9	932.0	956.5	1045.5	1217.2	1361.4	1319.7	1099.8	1010.8	787.1
75°	694.1	677.6	678.3	726.4	822.5	988.0	1155.8	1151.8	814.6	697.3	542.0
77.5°	505.0	508.2	522.3	541.3	624.0	783.9	941.5	931.2	579.9	479.0	379.0
80°	416.8	421.5	421.5	411.3	432.5	517.6	639.7	683.1	388.4	322.2	264.7
82.5°	299.4	323.0	336.4	319.9	312.0	341.1	401.0	429.4	241.9	203.3	185.1
85°	142.6	163.1	167.8	163.9	188.3	215.1	229.3	234.8	132.4	94.5	121.3
87.5°	0.0	0.0	0.8	6.3	17.3	29.9	29.9	45.7	7.1	2.4	5.5
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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	115°	120°	125°	130°	135°	145°	155°	165°
0°	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7
2.5°	595.6	585.4	577.5	568.0	560.2	552.3	546.8	535.0	525.5	504.2	498.7
5°	581.4	559.4	544.4	530.2	512.1	499.5	486.1	469.6	451.4	420.7	411.3
7.5°	525.5	497.9	477.4	457.0	433.3	412.0	392.4	370.3	338.8	305.7	293.1
10°	464.8	435.7	407.3	382.9	354.5	330.9	313.6	297.8	272.6	247.4	230.8
12.5°	415.2	382.1	349.8	325.4	310.4	298.6	286.0	273.4	246.6	218.2	198.5
15°	392.4	353.7	325.4	304.9	291.5	277.3	262.4	248.2	216.7	183.6	159.9
17.5°	395.5	351.4	315.1	287.6	269.4	249.8	232.4	214.3	179.6	140.2	119.0
20°	412.8	353.7	304.1	271.8	245.8	220.6	198.5	175.7	133.1	102.4	87.5
22.5°	434.9	361.6	297.8	256.1	223.8	192.2	163.9	137.1	98.5	80.4	73.3
25°	472.7	379.7	296.2	241.9	202.5	164.7	135.5	107.1	79.6	70.9	67.0
27.5°	520.0	400.2	297.8	231.6	184.4	142.6	110.3	89.0	71.7	67.0	63.8
30°	567.3	421.5	290.7	215.9	163.1	122.1	94.5	81.1	70.9	65.4	59.9
32.5°	609.0	437.3	278.9	199.3	144.2	104.0	80.4	69.3	62.2	55.9	54.4
35°	639.0	444.4	265.5	189.1	131.6	93.0	70.9	62.2	55.1	48.8	45.7
37.5°	667.3	445.1	251.3	179.6	126.8	88.2	65.4	57.5	51.2	45.7	42.5
40°	696.5	442.0	243.4	170.2	119.8	85.9	63.0	53.6	49.6	43.3	40.2
42.5°	717.7	436.5	240.3	164.7	113.5	79.6	61.5	52.8	47.3	42.5	38.6
45°	737.4	431.0	240.3	159.9	108.7	75.6	58.3	53.6	45.7	41.8	37.0
47.5°	761.1	433.3	241.1	156.0	104.8	71.7	55.1	52.0	46.5	41.0	36.2
50°	801.2	460.1	245.0	153.6	101.6	68.5	52.8	49.6	51.2	40.2	35.5
52.5°	870.6	502.7	251.3	152.1	98.5	66.2	49.6	48.1	52.0	40.2	34.7
55°	961.2	546.0	257.6	148.1	93.8	61.5	48.1	44.9	48.1	40.2	33.9
57.5°	1049.4	578.3	263.1	142.6	85.9	56.7	45.7	42.5	44.1	39.4	32.3
60°	1100.6	603.5	268.7	133.1	76.4	51.2	43.3	40.2	39.4	39.4	31.5
62.5°	1114.8	594.0	265.5	121.3	68.5	47.3	41.0	37.8	35.5	40.2	31.5
65°	1069.9	544.4	253.7	111.1	63.0	45.7	38.6	36.2	33.9	34.7	29.9
67.5°	932.0	457.7	221.4	101.6	62.2	44.9	37.0	34.7	31.5	30.7	28.4
70°	760.3	359.3	183.6	94.5	61.5	44.9	35.5	32.3	29.9	27.6	26.0
72.5°	584.6	268.7	154.4	91.4	62.2	44.1	33.1	29.2	26.8	25.2	23.6
75°	411.3	189.9	128.4	81.9	58.3	41.8	30.7	26.0	23.6	22.1	20.5
77.5°	297.8	129.2	95.3	66.2	49.6	36.2	26.8	22.1	19.7	18.9	17.3
80°	189.9	79.6	63.8	48.8	36.2	28.4	20.5	17.3	15.8	14.2	13.4
82.5°	109.5	46.5	38.6	33.1	23.6	18.9	15.0	13.4	10.2	9.5	8.7
85°	67.0	29.2	21.3	17.3	15.0	11.8	8.7	7.9	5.5	4.7	3.9
87.5°	15.0	6.3	5.5	3.9	4.7	3.9	2.4	1.6	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: P228458
 CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

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



NUMBER: P228458
 NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

175°	180°	185°	195°	205°	215°	225°	230°	232.5°	235°	237.5°	175°	175°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	112.5°	124.0
490.0	478.2	479.0	476.7	470.4	460.1	457.0	451.4	452.2	455.4	452.2	115°	147.0
400.2	386.0	387.6	386.8	380.5	373.4	367.9	360.8	358.5	360.8	356.9	117.5°	170.0
283.6	274.2	277.3	284.4	283.6	279.7	275.0	267.1	265.5	266.3	259.2	120°	195.0
216.7	207.2	204.8	204.1	202.5	200.1	193.8	187.5	185.1	185.9	181.2	122.5°	220.0
181.2	173.3	163.9	155.2	147.3	144.2	136.3	132.4	131.6	131.6	129.2	125°	246.0
143.4	137.1	131.6	122.9	116.6	111.9	106.4	103.2	102.4	103.2	103.2	127.5°	269.0
107.1	104.0	101.6	100.8	97.7	94.5	91.4	89.8	89.0	89.0	89.8	130°	292.0
81.9	81.1	81.1	81.1	85.1	88.2	89.0	86.7	85.9	85.1	84.3	132.5°	314.0
70.9	70.1	70.9	75.6	73.3	70.9	70.9	70.9	70.9	70.9	71.7	135°	337.0
65.4	66.2	67.0	64.6	62.2	60.7	59.9	59.9	59.1	59.1	59.9	137.5°	360.0
62.2	61.5	60.7	59.1	57.5	55.1	54.4	53.6	53.6	53.6	53.6	140°	383.0
58.3	57.5	56.7	55.1	52.8	49.6	48.8	48.8	48.1	48.8	48.8	142.5°	406.0
53.6	52.8	52.0	50.4	48.1	46.5	45.7	44.1	44.1	44.1	44.9	145°	426.0
43.3	42.5	42.5	43.3	43.3	42.5	42.5	41.0	41.0	41.0	41.0	147.5°	444.0
40.2	39.4	39.4	38.6	39.4	40.2	39.4	38.6	38.6	37.8	37.8	150°	462.0
37.8	37.8	37.0	36.2	36.2	37.8	37.0	36.2	35.5	35.5	35.5	152.5°	480.0
36.2	35.5	35.5	34.7	34.7	34.7	33.9	33.1	32.3	32.3	32.3	155°	500.0
34.7	34.7	33.9	33.1	32.3	32.3	30.7	29.9	29.9	29.9	30.7	157.5°	515.0
33.9	33.1	33.1	32.3	31.5	29.9	29.2	28.4	28.4	28.4	28.4	160°	527.0
33.1	32.3	31.5	31.5	29.9	29.2	28.4	27.6	27.6	27.6	27.6	162.5°	536.0
32.3	31.5	30.7	29.9	29.2	28.4	27.6	26.8	26.8	26.8	26.8	165°	547.0
30.7	29.9	29.9	29.2	29.2	28.4	27.6	26.8	26.8	26.8	26.0	167.5°	556.0
29.9	29.2	28.4	28.4	28.4	27.6	26.8	26.0	26.0	26.0	26.0	170°	563.0
29.2	28.4	28.4	27.6	27.6	26.8	26.8	26.0	25.2	25.2	24.4	172.5°	566.0
28.4	27.6	27.6	26.8	27.6	26.8	26.0	25.2	24.4	24.4	23.6	175°	569.0
27.6	26.8	26.8	26.8	26.0	26.0	25.2	23.6	23.6	23.6	22.8	177.5°	573.0
26.0	25.2	25.2	26.0	25.2	24.4	24.4	22.8	22.8	22.1	22.1	180°	576.0
23.6	23.6	23.6	24.4	23.6	22.8	22.8	22.1	21.3	20.5	20.5		
22.1	21.3	22.1	22.1	22.1	21.3	22.1	20.5	19.7	18.9	18.9		
18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.1	17.3	16.5		
15.0	15.8	15.8	15.8	15.8	16.5	15.8	15.8	15.8	15.0	14.2		
11.0	11.0	11.8	12.6	11.8	12.6	11.8	12.6	11.8	11.8	11.8		
6.3	6.3	7.1	7.9	7.9	8.7	7.1	7.9	7.9	8.7	7.9		
2.4	2.4	2.4	2.4	3.2	3.2	2.4	3.2	3.2	3.9	3.9		
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		

'228458
 ISS-AF-350-LED-E1-SLL-7050-ULG

REPORT NUMBER: P228458
 CATALOG NUMBER: ISS-AF-350

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°	550.7	550.7
146.0	147.0	149.0	151.0	154.0	156.0	157.0	157.5	158.0	158.0	2.5°	458.5	458.5
169.0	170.0	172.0	174.0	177.0	179.0	179.5	179.8	180.0	180.2	5°	360.1	359.3
193.0	195.0	196.0	198.0	201.0	202.0	203.0	203.5	204.0	204.0	7.5°	261.6	259.2
219.0	220.0	221.0	223.0	226.0	227.0	227.5	227.8	228.0	228.0	10°	182.8	176.5
244.0	246.0	247.0	248.0	251.0	252.0	252.5	252.8	253.0	253.2	12.5°	132.4	130.0
267.0	269.0	270.0	272.0	274.0	276.0	277.0	277.5	278.0	277.8	15°	104.8	104.8
290.0	292.0	293.0	294.0	298.0	299.0	300.0	300.5	301.0	301.0	17.5°	90.6	90.6
313.0	314.0	317.0	318.0	321.0	322.0	323.5	324.2	325.0	325.0	20°	83.5	82.7
336.0	337.0	339.0	341.0	345.0	345.0	346.5	347.2	348.0	348.0	22.5°	71.7	70.9
359.0	360.0	363.0	364.0	367.0	367.0	368.0	368.5	369.0	369.0	25°	59.1	59.1
382.0	383.0	385.0	386.0	388.0	389.0	389.5	389.8	390.0	390.0	27.5°	53.6	53.6
404.0	406.0	408.0	407.0	410.0	410.0	411.0	411.5	412.0	412.0	30°	48.8	49.6
425.0	426.0	428.0	428.0	431.0	432.0	433.0	433.5	434.0	433.8	32.5°	44.9	44.9
444.0	444.0	447.0	448.0	452.0	453.0	453.5	453.8	454.0	453.5	35°	40.2	40.2
461.0	462.0	464.0	465.0	469.0	470.0	470.5	470.8	471.0	470.5	37.5°	37.0	36.2
479.0	480.0	483.0	482.0	485.0	486.0	486.5	486.8	487.0	486.8	40°	33.9	33.9
499.0	500.0	502.0	501.0	503.0	503.0	503.5	503.8	504.0	503.8	42.5°	31.5	31.5
513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	518.5	45°	29.9	29.9
525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	531.5	47.5°	29.2	29.2
535.0	536.0	539.0	538.0	541.0	541.0	541.5	541.8	542.0	541.5	50°	27.6	27.6
546.0	547.0	549.0	548.0	552.0	552.0	552.5	552.8	553.0	552.2	52.5°	26.8	26.8
555.0	556.0	559.0	558.0	561.0	560.0	560.0	560.0	560.0	559.5	55°	26.0	26.8
562.0	563.0	566.0	565.0	567.0	566.0	565.5	565.2	565.0	564.8	57.5°	25.2	25.2
565.0	566.0	569.0	567.0	569.0	568.0	568.5	568.8	569.0	568.5	60°	24.4	24.4
567.0	569.0	570.0	569.0	572.0	572.0	572.5	572.8	573.0	572.2	62.5°	23.6	23.6
572.0	573.0	575.0	574.0	578.0	577.0	577.0	577.0	577.0	576.2	65°	22.8	22.8
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	21.3	21.3
										70°	19.7	19.7
										72.5°	18.1	18.1
										75°	16.5	15.8
										77.5°	14.2	13.4
										80°	11.8	11.0
										82.5°	8.7	7.9
										85°	3.9	3.9
										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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-S

0-LED-E1-SLL-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

245°	247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		240°	242.5°	245°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	550.7	112.5°	136.0	136.0	136.0
449.1	450.7	452.2	455.4	453.8	453.0	452.2	457.0	459.3	115°	158.0	158.0	158.0
347.4	346.7	349.0	349.8	347.4	343.5	341.1	341.9	344.3	117.5°	180.5	180.8	181.0
248.2	246.6	245.8	246.6	244.2	240.3	237.1	237.9	240.3	120°	204.0	204.0	204.0
174.9	175.7	177.3	178.8	178.8	178.8	179.6	184.4	189.9	122.5°	228.0	228.0	228.0
131.6	133.1	136.3	138.7	141.0	141.8	142.6	148.9	153.6	125°	253.5	253.8	254.0
106.4	107.1	108.7	110.3	111.9	111.9	112.7	115.0	119.0	127.5°	277.5	277.2	277.0
90.6	90.6	90.6	89.8	89.0	87.5	86.7	85.9	86.7	130°	301.0	301.0	301.0
81.1	80.4	78.8	77.2	76.4	74.1	73.3	70.9	70.1	132.5°	325.0	325.0	325.0
70.9	70.9	70.9	70.1	69.3	68.5	67.0	64.6	63.0	135°	348.0	348.0	348.0
59.1	59.9	59.9	60.7	62.2	62.2	62.2	62.2	59.9	137.5°	369.0	369.0	369.0
53.6	53.6	54.4	54.4	55.1	55.1	55.1	55.9	56.7	140°	390.0	390.0	390.0
49.6	50.4	50.4	51.2	51.2	52.0	52.0	52.8	52.8	142.5°	412.0	412.0	412.0
45.7	46.5	46.5	46.5	48.1	48.1	47.3	48.1	48.1	145°	433.5	433.2	433.0
40.2	40.2	40.2	40.2	40.2	40.2	38.6	37.8	38.6	147.5°	453.0	452.5	452.0
36.2	35.5	34.7	34.7	34.7	35.5	34.7	35.5	35.5	150°	470.0	469.5	469.0
33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.9	34.7	152.5°	486.5	486.2	486.0
31.5	31.5	31.5	31.5	31.5	31.5	31.5	32.3	32.3	155°	503.5	503.2	503.0
29.9	29.9	30.7	30.7	30.7	30.7	30.7	30.7	31.5	157.5°	518.0	517.5	517.0
29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.9	30.7	160°	531.0	530.5	530.0
28.4	28.4	28.4	28.4	28.4	28.4	28.4	29.2	29.9	162.5°	541.0	540.5	540.0
26.8	27.6	27.6	27.6	27.6	27.6	27.6	27.6	28.4	165°	551.5	550.8	550.0
26.8	26.8	26.8	26.8	26.0	26.0	26.0	26.0	26.8	167.5°	559.0	558.5	558.0
26.0	26.0	26.0	25.2	25.2	24.4	24.4	24.4	26.0	170°	564.5	564.2	564.0
24.4	24.4	24.4	23.6	23.6	23.6	23.6	24.4	24.4	172.5°	568.0	567.5	567.0
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	175°	571.5	570.8	570.0
22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	177.5°	575.5	574.8	574.0
21.3	20.5	20.5	20.5	20.5	21.3	20.5	20.5	20.5	180°	576.0	576.0	576.0
19.7	18.9	18.9	18.9	18.9	18.9	18.9	18.9	18.9				
18.1	18.1	17.3	17.3	17.3	17.3	17.3	17.3	17.3				
15.8	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0				
13.4	13.4	12.6	12.6	12.6	12.6	12.6	12.6	12.6				
11.0	10.2	10.2	10.2	10.2	10.2	10.2	9.5	9.5				
7.9	7.9	7.9	7.1	7.1	7.1	7.1	6.3	5.5				
3.2	3.9	3.9	4.7	3.9	3.9	3.9	3.2	1.6				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-U

SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

247.5°	250°	252.5°	255°	257.5°	260°	265°	270°		275°	280°	282.5°	285°
135.8	135.5	135.2	135.0	135.5	136.0	137.0	135.0	0°	550.7	550.7	550.7	550.7
158.0	158.0	158.0	158.0	158.5	159.0	160.0	159.0	2.5°	457.7	465.6	466.4	461.7
180.8	180.5	180.2	180.0	180.5	181.0	182.0	180.0	5°	341.1	351.4	350.6	344.3
204.0	204.0	204.0	204.0	204.5	205.0	206.0	204.0	7.5°	241.1	249.8	249.0	248.2
228.2	228.5	228.8	229.0	230.0	231.0	233.0	232.0	10°	195.4	203.3	205.6	211.1
254.0	254.0	254.0	254.0	254.8	255.5	257.0	256.0	12.5°	158.4	167.8	170.2	176.5
277.2	277.5	277.8	278.0	278.8	279.5	281.0	278.0	15°	122.1	130.0	132.4	137.1
301.2	301.5	301.8	302.0	302.8	303.5	305.0	303.0	17.5°	89.8	94.5	96.1	99.3
325.2	325.5	325.8	326.0	326.8	327.5	329.0	327.0	20°	70.1	71.7	72.5	73.3
348.2	348.5	348.8	349.0	349.5	350.0	351.0	350.0	22.5°	63.0	63.8	63.8	64.6
369.2	369.5	369.8	370.0	371.0	372.0	374.0	372.0	25°	58.3	59.1	59.1	59.9
390.5	391.0	391.5	392.0	393.0	394.0	396.0	394.0	27.5°	55.9	55.9	55.9	55.9
412.2	412.5	412.8	413.0	413.8	414.5	416.0	415.0	30°	53.6	53.6	53.6	54.4
433.2	433.5	433.8	434.0	434.8	435.5	437.0	435.0	32.5°	49.6	48.1	49.6	48.8
452.2	452.5	452.8	453.0	453.8	454.5	456.0	453.0	35°	38.6	38.6	39.4	40.2
469.0	469.0	469.0	469.0	470.0	471.0	473.0	470.0	37.5°	36.2	37.0	37.0	37.8
486.0	486.0	486.0	486.0	486.8	487.5	489.0	486.0	40°	34.7	35.5	36.2	37.0
503.2	503.5	503.8	504.0	504.8	505.5	507.0	505.0	42.5°	33.1	34.7	34.7	35.5
517.2	517.5	517.8	518.0	519.2	520.5	523.0	520.0	45°	32.3	33.1	33.9	34.7
530.0	530.0	530.0	530.0	530.8	531.5	533.0	531.0	47.5°	31.5	32.3	33.1	33.9
539.5	539.0	538.5	538.0	538.5	539.0	540.0	537.0	50°	29.9	31.5	32.3	33.1
549.5	549.0	548.5	548.0	548.5	549.0	550.0	548.0	52.5°	29.2	30.7	30.7	32.3
558.2	558.5	558.8	559.0	560.0	561.0	563.0	561.0	55°	27.6	29.2	29.2	30.7
564.5	565.0	565.5	566.0	567.2	568.5	571.0	569.0	57.5°	26.0	27.6	28.4	29.2
567.2	567.5	567.8	568.0	568.8	569.5	571.0	568.0	60°	25.2	26.0	26.8	27.6
569.5	569.0	568.5	568.0	568.8	569.5	571.0	568.0	62.5°	23.6	25.2	26.0	26.8
574.0	574.0	574.0	574.0	574.8	575.5	577.0	574.0	65°	22.8	24.4	24.4	26.0
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	21.3	22.8	22.8	23.6
								70°	19.7	20.5	21.3	22.1
								72.5°	18.1	18.9	18.9	19.7
								75°	15.0	15.8	16.5	17.3
								77.5°	12.6	12.6	14.2	14.2
								80°	9.5	9.5	10.2	11.0
								82.5°	5.5	5.5	6.3	6.3
								85°	1.6	1.6	1.6	1.6
								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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

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CANDELA DISTRIBUTION (continued):

287.5°	290°	292.5°	295°	297.5°	300°	302.5°		275°	280°	282.5°	285°	287.5°
550.7	550.7	550.7	550.7	550.7	550.7	550.7	112.5°	137.0	136.0	135.5	135.0	135.2
471.1	472.7	470.4	470.4	471.9	478.2	478.2	115°	160.0	159.0	158.5	158.0	158.0
356.9	360.8	358.5	359.3	362.4	369.5	373.4	117.5°	182.0	181.0	180.5	180.0	180.2
256.1	259.2	260.8	263.1	272.6	273.4	278.1	120°	206.0	205.0	204.5	204.0	204.0
213.5	218.2	221.4	225.3	233.2	237.1	242.7	122.5°	233.0	231.0	230.0	229.0	228.8
179.6	185.1	188.3	196.2	200.9	205.6	212.7	125°	257.0	255.5	254.8	254.0	254.0
140.2	146.5	149.7	154.4	163.9	168.6	178.1	127.5°	281.0	279.5	278.8	278.0	277.8
101.6	104.0	110.3	118.2	123.7	131.6	136.3	130°	305.0	303.5	302.8	302.0	301.8
74.8	76.4	79.6	85.1	88.2	94.5	99.3	132.5°	329.0	327.5	326.8	326.0	325.8
64.6	65.4	67.0	68.5	70.1	72.5	74.8	135°	351.0	350.0	349.5	349.0	348.8
59.9	60.7	61.5	62.2	63.8	64.6	65.4	137.5°	374.0	372.0	371.0	370.0	369.8
56.7	56.7	57.5	59.1	59.1	60.7	61.5	140°	396.0	394.0	393.0	392.0	391.5
55.1	56.7	58.3	60.7	61.5	63.0	63.8	142.5°	416.0	414.5	413.8	413.0	412.8
47.3	47.3	48.1	49.6	49.6	50.4	51.2	145°	437.0	435.5	434.8	434.0	433.8
40.2	41.0	41.8	42.5	43.3	44.9	45.7	147.5°	456.0	454.5	453.8	453.0	452.8
38.6	38.6	39.4	41.0	41.8	42.5	43.3	150°	473.0	471.0	470.0	469.0	469.0
37.0	37.8	38.6	39.4	40.2	41.8	42.5	152.5°	489.0	487.5	486.8	486.0	486.0
36.2	37.0	37.8	38.6	40.2	41.0	41.8	155°	507.0	505.5	504.8	504.0	503.8
35.5	36.2	37.0	38.6	39.4	41.0	41.8	157.5°	523.0	520.5	519.2	518.0	517.8
34.7	35.5	36.2	37.8	39.4	41.0	42.5	160°	533.0	531.5	530.8	530.0	530.0
33.9	34.7	36.2	37.8	39.4	41.8	45.7	162.5°	540.0	539.0	538.5	538.0	538.5
33.1	34.7	36.2	37.8	40.2	43.3	47.3	165°	550.0	549.0	548.5	548.0	548.5
32.3	33.9	34.7	37.0	39.4	42.5	43.3	167.5°	563.0	561.0	560.0	559.0	558.8
30.7	32.3	33.1	35.5	38.6	39.4	38.6	170°	571.0	568.5	567.2	566.0	565.5
29.2	29.9	32.3	37.0	40.2	37.0	33.1	172.5°	571.0	569.5	568.8	568.0	567.8
28.4	29.2	30.7	33.9	34.7	30.7	29.9	175°	571.0	569.5	568.8	568.0	568.5
26.8	26.8	27.6	27.6	27.6	27.6	27.6	177.5°	577.0	575.5	574.8	574.0	574.0
24.4	24.4	25.2	25.2	25.2	25.2	25.2	180°	576.0	576.0	576.0	576.0	576.0
22.1	22.1	22.8	22.8	22.8	23.6	23.6						
19.7	20.5	20.5	21.3	21.3	21.3	22.1						
17.3	18.1	18.1	18.1	18.1	18.9	18.9						
15.0	15.0	15.8	15.8	15.8	15.8	15.8						
11.8	11.8	11.8	11.8	11.8	11.8	11.8						
7.1	7.1	7.9	7.1	7.1	6.3	6.3						
1.6	1.6	1.6	0.8	0.8	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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

290°	292.5°	295°	297.5°	300°	302.5°		305°	307.5°	310°	312.5°	315°	317.5°
135.5	135.8	136.0	136.0	136.0	136.0	0°	550.7	550.7	550.7	550.7	550.7	550.7
158.0	158.0	158.0	158.0	158.0	158.0	2.5°	490.0	490.0	491.6	497.9	499.5	503.4
180.5	180.8	181.0	180.8	180.5	180.2	5°	387.6	390.8	395.5	403.4	408.1	416.8
204.0	204.0	204.0	204.0	204.0	204.0	7.5°	289.1	293.9	297.8	306.5	313.6	322.2
228.5	228.2	228.0	228.0	228.0	228.0	10°	250.5	254.5	260.0	265.5	272.6	276.5
254.0	254.0	254.0	253.8	253.5	253.2	12.5°	223.0	228.5	234.0	241.9	249.0	256.1
277.5	277.2	277.0	277.2	277.5	277.8	15°	189.1	195.4	201.7	210.4	220.6	227.7
301.5	301.2	301.0	301.0	301.0	301.0	17.5°	146.5	153.6	162.3	174.1	185.1	193.8
325.5	325.2	325.0	325.0	325.0	325.0	20°	107.9	114.2	122.1	132.4	140.2	155.2
348.5	348.2	348.0	348.0	348.0	348.0	22.5°	79.6	83.5	89.8	97.7	106.4	119.8
369.5	369.2	369.0	369.0	369.0	369.0	25°	67.0	68.5	70.9	75.6	81.1	90.6
391.0	390.5	390.0	390.0	390.0	390.0	27.5°	62.2	63.0	64.6	67.0	70.1	74.8
412.5	412.2	412.0	412.0	412.0	412.0	30°	65.4	65.4	65.4	66.2	67.8	70.1
433.5	433.2	433.0	433.2	433.5	433.8	32.5°	52.8	53.6	53.6	55.1	55.9	59.1
452.5	452.2	452.0	452.5	453.0	453.5	35°	47.3	48.1	48.8	49.6	51.2	52.0
469.0	469.0	469.0	469.5	470.0	470.5	37.5°	44.9	45.7	46.5	46.5	47.3	48.8
486.0	486.0	486.0	486.2	486.5	486.8	40°	44.1	44.1	44.1	44.1	45.7	47.3
503.5	503.2	503.0	503.2	503.5	503.8	42.5°	42.5	42.5	42.5	43.3	45.7	48.8
517.5	517.2	517.0	517.5	518.0	518.5	45°	42.5	42.5	43.3	46.5	47.3	47.3
530.0	530.0	530.0	530.5	531.0	531.5	47.5°	44.1	45.7	46.5	45.7	44.9	44.9
539.0	539.5	540.0	540.5	541.0	541.5	50°	48.1	47.3	44.1	43.3	43.3	41.8
549.0	549.5	550.0	550.8	551.5	552.2	52.5°	47.3	44.1	43.3	41.8	40.2	39.4
558.5	558.2	558.0	558.5	559.0	559.5	55°	42.5	41.8	39.4	37.8	37.0	37.8
565.0	564.5	564.0	564.2	564.5	564.8	57.5°	37.0	36.2	34.7	34.7	35.5	36.2
567.5	567.2	567.0	567.5	568.0	568.5	60°	32.3	32.3	32.3	33.1	33.9	34.7
569.0	569.5	570.0	570.8	571.5	572.2	62.5°	29.2	29.9	29.9	31.5	32.3	33.1
574.0	574.0	574.0	574.8	575.5	576.2	65°	27.6	28.4	29.2	29.2	29.9	30.7
576.0	576.0	576.0	576.0	576.0	576.0	67.5°	26.0	26.0	26.8	27.6	28.4	29.2
						70°	23.6	24.4	25.2	26.0	26.0	26.8
						72.5°	22.1	22.1	22.8	23.6	23.6	25.2
						75°	18.9	19.7	19.7	19.7	20.5	22.1
						77.5°	16.5	15.8	16.5	16.5	17.3	18.1
						80°	11.8	11.0	11.0	11.8	11.8	11.8
						82.5°	6.3	5.5	6.3	5.5	5.5	6.3
						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: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

320°	322.5°	325°	335°	345°		305°	307.5°	310°	312.5°	315°	317.5°	320°
550.7	550.7	550.7	550.7	550.7	112.5°	136.0	135.5	135.0	134.5	134.0	133.5	133.0
502.7	509.7	512.9	531.8	551.5	115°	158.0	157.5	157.0	156.5	156.0	155.5	155.0
415.2	429.4	431.7	466.4	500.3	117.5°	180.0	179.8	179.5	179.2	179.0	178.5	178.0
324.6	341.1	345.9	391.6	438.8	120°	204.0	203.5	203.0	202.5	202.0	201.8	201.5
282.8	290.7	296.2	330.1	384.5	122.5°	228.0	227.8	227.5	227.2	227.0	226.8	226.5
262.4	270.2	277.3	304.9	347.4	125°	253.0	252.8	252.5	252.2	252.0	251.8	251.5
234.8	243.4	252.1	286.0	335.6	127.5°	278.0	277.5	277.0	276.5	276.0	275.5	275.0
200.9	212.7	223.8	264.7	330.1	130°	301.0	300.5	300.0	299.5	299.0	298.8	298.5
163.1	177.3	190.7	241.9	322.2	132.5°	325.0	324.2	323.5	322.8	322.0	321.8	321.5
128.4	141.0	156.0	220.6	322.2	135°	348.0	347.2	346.5	345.8	345.0	345.0	345.0
99.3	111.9	126.8	201.7	330.9	137.5°	369.0	368.5	368.0	367.5	367.0	367.0	367.0
81.1	91.4	106.4	186.7	343.5	140°	390.0	389.8	389.5	389.2	389.0	388.8	388.5
73.3	79.6	89.0	164.7	352.2	142.5°	412.0	411.5	411.0	410.5	410.0	410.0	410.0
62.2	67.0	75.6	151.3	357.7	145°	434.0	433.5	433.0	432.5	432.0	431.8	431.5
55.1	60.7	69.3	142.6	356.9	147.5°	454.0	453.8	453.5	453.2	453.0	452.8	452.5
51.2	56.7	67.0	139.5	356.9	150°	471.0	470.8	470.5	470.2	470.0	469.8	469.5
51.2	56.7	65.4	136.3	359.3	152.5°	487.0	486.8	486.5	486.2	486.0	485.8	485.5
50.4	53.6	60.7	134.7	363.2	155°	504.0	503.8	503.5	503.2	503.0	503.0	503.0
48.1	50.4	57.5	134.7	371.1	157.5°	519.0	519.0	519.0	519.0	519.0	519.0	519.0
44.9	48.1	55.1	137.1	386.0	160°	532.0	532.0	532.0	532.0	532.0	532.0	532.0
42.5	45.7	54.4	137.1	416.8	162.5°	542.0	541.8	541.5	541.2	541.0	541.0	541.0
40.2	44.9	53.6	135.5	460.9	165°	553.0	552.8	552.5	552.2	552.0	552.0	552.0
39.4	43.3	52.0	133.9	515.3	167.5°	560.0	560.0	560.0	560.0	560.0	560.2	560.5
38.6	41.8	48.1	130.0	558.6	170°	565.0	565.2	565.5	565.8	566.0	566.2	566.5
37.0	39.4	44.1	122.9	587.7	172.5°	569.0	568.8	568.5	568.2	568.0	568.2	568.5
34.7	37.0	40.2	115.0	594.0	175°	573.0	572.8	572.5	572.2	572.0	572.0	572.0
33.1	35.5	40.2	108.7	555.4	177.5°	577.0	577.0	577.0	577.0	577.0	577.2	577.5
30.7	34.7	41.0	103.2	471.1	180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0
29.2	34.7	41.8	100.8	374.2								
27.6	33.9	42.5	96.9	282.1								
25.2	30.7	37.0	80.4	190.7								
20.5	23.6	27.6	51.2	100.8								
13.4	14.2	15.8	31.5	55.9								
6.3	7.9	7.9	15.0	25.2								
0.0	0.0	0.0	1.6	5.5								
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								
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: P228458
 CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

322.5°	325°	335°	345°		355°	359°	360°
132.5	132.0	129.0	126.0	0°	550.7	550.7	550.7
154.5	154.0	151.0	149.0	2.5°	570.4	579.9	584.6
177.5	177.0	174.0	172.0	5°	539.7	559.4	565.7
201.2	201.0	198.0	196.0	7.5°	493.2	515.3	523.9
226.2	226.0	223.0	221.0	10°	446.7	474.3	483.0
251.2	251.0	248.0	247.0	12.5°	419.1	452.2	457.0
274.5	274.0	272.0	270.0	15°	408.1	442.0	451.4
298.2	298.0	294.0	293.0	17.5°	419.1	457.0	466.4
321.2	321.0	318.0	317.0	20°	440.4	486.9	501.9
345.0	345.0	341.0	339.0	22.5°	476.7	539.7	558.6
367.0	367.0	364.0	363.0	25°	535.7	623.2	639.7
388.2	388.0	386.0	385.0	27.5°	598.8	689.4	715.4
410.0	410.0	407.0	408.0	30°	653.9	750.8	772.1
431.2	431.0	428.0	428.0	32.5°	693.3	799.7	824.1
452.2	452.0	448.0	447.0	35°	739.8	855.6	879.2
469.2	469.0	465.0	464.0	37.5°	793.4	923.4	955.7
485.2	485.0	482.0	483.0	40°	852.5	993.5	1029.7
503.0	503.0	501.0	502.0	42.5°	906.0	1058.9	1099.1
519.0	519.0	516.0	517.0	45°	947.8	1120.3	1151.8
532.0	532.0	529.0	529.0	47.5°	995.9	1167.6	1203.1
541.0	541.0	538.0	539.0	50°	1062.0	1227.5	1269.2
552.0	552.0	548.0	549.0	52.5°	1158.9	1329.1	1359.1
560.8	561.0	558.0	559.0	55°	1276.3	1452.0	1485.9
566.8	567.0	565.0	566.0	57.5°	1384.3	1566.3	1595.4
568.8	569.0	567.0	569.0	60°	1453.6	1619.0	1643.5
572.0	572.0	569.0	570.0	62.5°	1454.4	1620.6	1651.3
577.8	578.0	574.0	575.0	65°	1396.9	1586.0	1620.6
576.0	576.0	576.0	576.0	67.5°	1251.1	1497.7	1551.3
				70°	1056.5	1324.4	1384.3
				72.5°	824.1	1040.8	1109.3
				75°	558.6	691.0	750.8
				77.5°	355.3	398.7	418.4
				80°	209.6	235.6	245.8
				82.5°	130.0	140.2	150.5
				85°	52.8	37.8	41.0
				87.5°	0.0	0.0	0.0
				90°	0.0	0.0	0.0
				92.5°	0.0	0.0	0.0
				95°	1.0	1.0	1.0
				97.5°	2.0	2.0	2.0
				100°	8.0	8.0	8.0
				102.5°	28.0	28.0	28.0
				105°	54.0	54.0	54.0
				107.5°	77.0	77.8	78.0
				110°	102.0	101.2	101.0

REPORT NUMBER: P228458

CATALOG NUMBER: ISS-AF-350-LED-E1-SLL-7050-ULG

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)