

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: P228058

Luminaire Tested: **ISS-AF-600-LED-E1-SL2-7050-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-SL2-7050-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, 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: 5123.2 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type III - Medium - 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

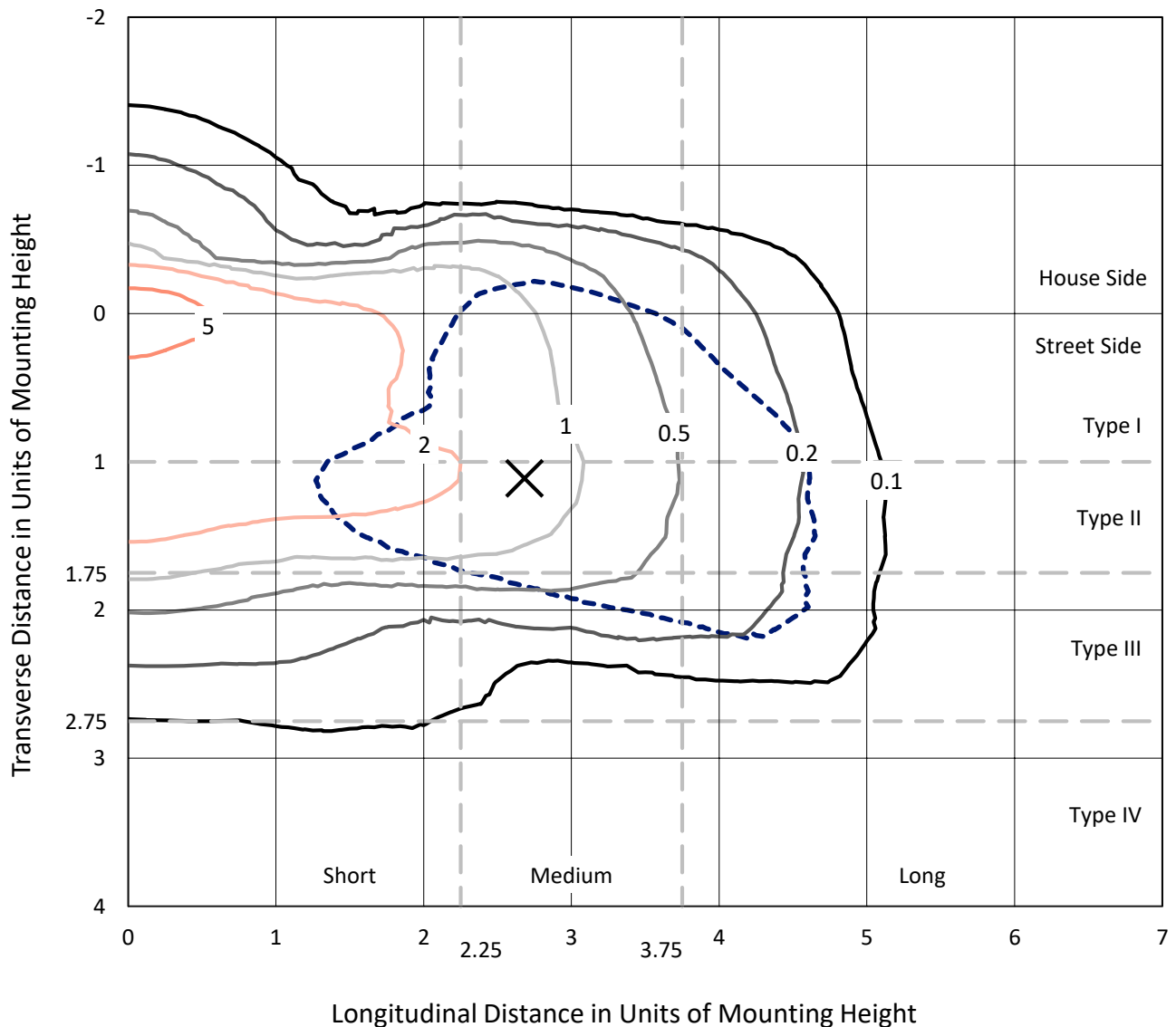


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

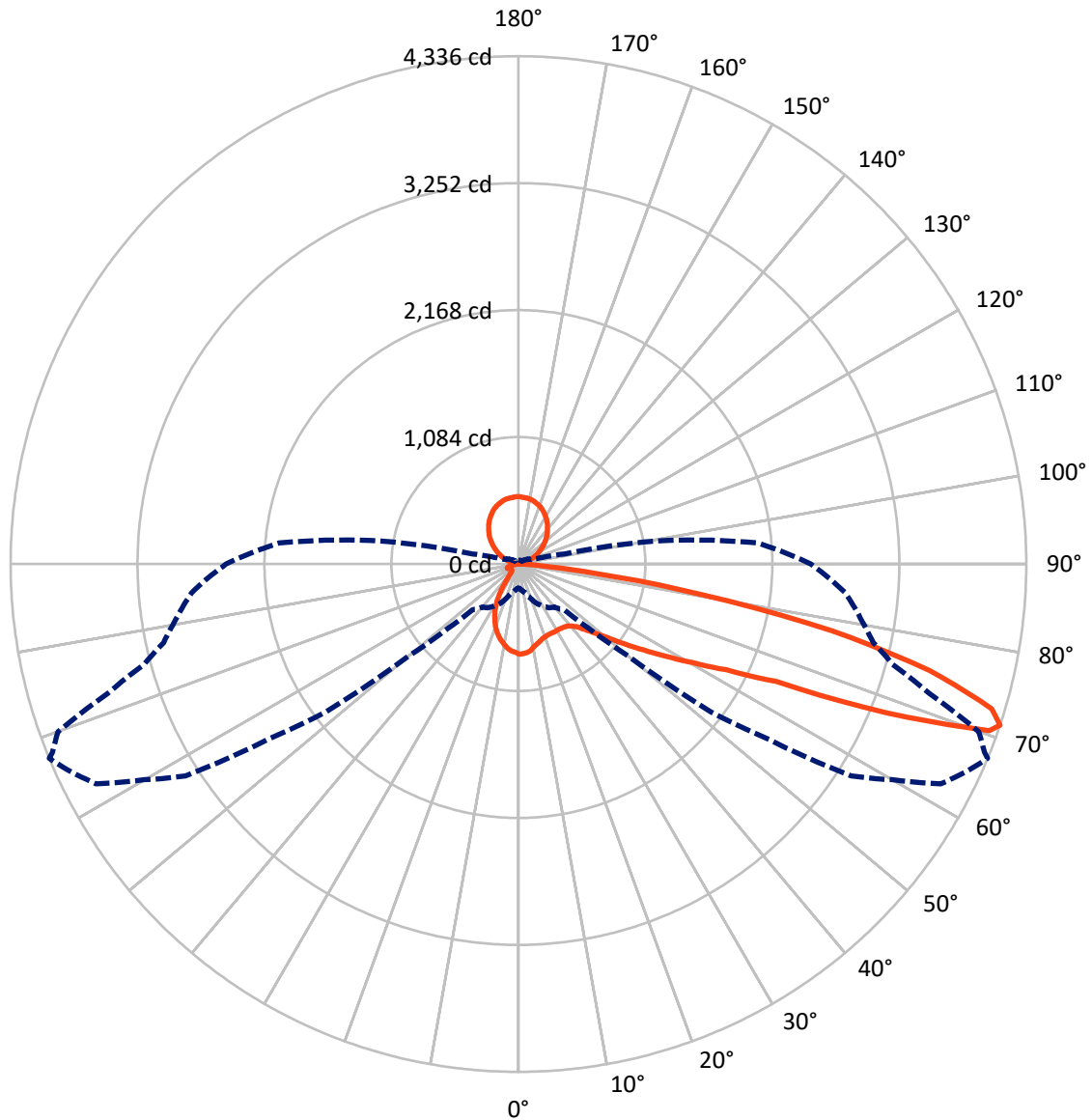


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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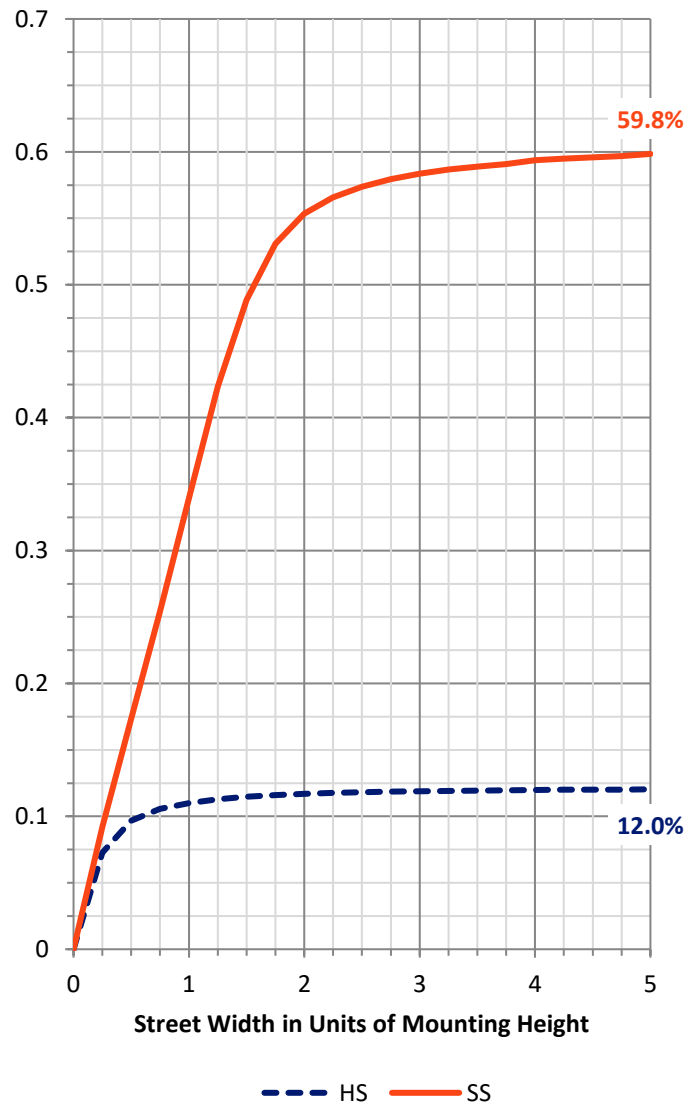
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.0	713.1	1336.1
	% Fixture	12.2	13.9	26.1
Street Side	Lumens	3074.0	713.1	3787.1
	% Fixture	60.0	13.9	73.9
Total	Lumens	3697.0	1426.2	5123.2
	% Fixture	72.2	27.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.3
10°-20°	160.8	3.1
20°-30°	218.7	4.3
30°-40°	298.9	5.8
40°-50°	450.4	8.8
50°-60°	713.8	13.9
60°-70°	945.0	18.4
70°-80°	752.8	14.7
80°-90°	89.2	1.7
90°-100°	4.7	0.1
100°-110°	69.0	1.3
110°-120°	153.0	3.0
120°-130°	223.9	4.4
130°-140°	265.6	5.2
140°-150°	269.3	5.3
150°-160°	231.1	4.5
160°-170°	155.1	3.0
170°-180°	54.3	1.1
0°-90°	3697.0	72.2
0°-180°	5123.2	100.0



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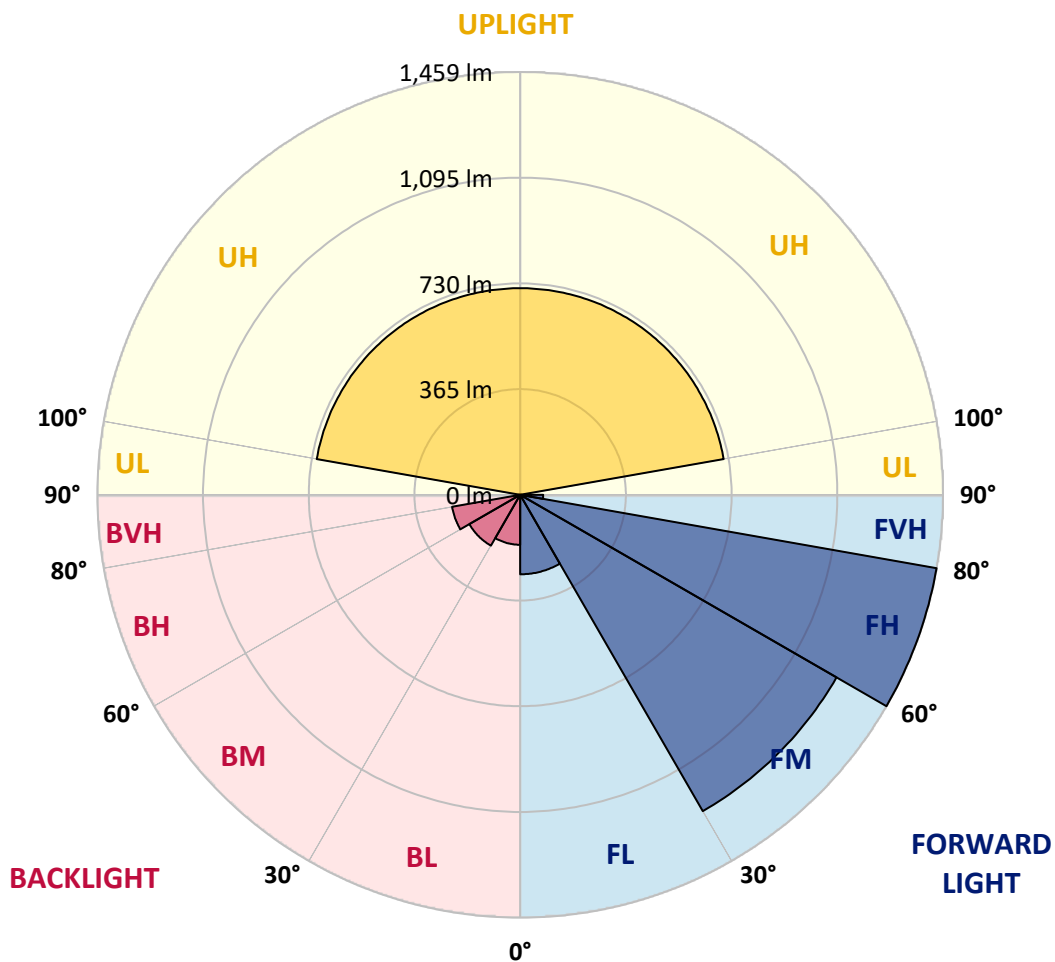
CATALOG NUMBER: ISS-AF-600-LED-E1-SL2-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.3	5.4			
FM (30°-60°)	1260.7	24.6			
FH (60°-80°)	1459.4	28.5			G1/1800
FVH (80°-90°)	79.6	1.6			G1/100
BL (0°-30°)	172.5	3.4	B1/500		
BM (30°-60°)	202.4	4.0	B0/220		
BH (60°-80°)	238.4	4.7	B1/500		G1/500
BVH (80°-90°)	9.7	0.2			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	13.9		U4/1000	

BUG Rating: B1-U5-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	756.2	753.6	753.6	757.5	764.0	758.8	762.7	762.7	764.0	767.8	769.1
5°	700.7	695.6	700.7	705.9	720.1	717.5	721.4	725.2	733.0	734.3	744.6
7.5°	650.4	647.8	651.7	662.0	680.1	674.9	680.1	685.2	694.3	698.1	708.5
10°	611.7	607.8	613.0	620.7	638.8	637.5	640.1	646.5	656.9	659.4	672.3
12.5°	583.3	583.3	585.9	596.2	611.7	610.4	618.1	622.0	631.0	633.6	647.8
15°	569.1	565.2	570.4	579.4	594.9	594.9	600.1	603.9	616.8	618.1	631.0
17.5°	556.2	557.5	558.8	569.1	583.3	580.7	587.2	589.7	603.9	601.4	616.8
20°	556.2	558.8	557.5	563.9	574.3	569.1	576.8	578.1	593.6	589.7	606.5
22.5°	571.7	574.3	570.4	569.1	573.0	569.1	573.0	575.6	587.2	584.6	600.1
25°	598.8	603.9	598.8	589.7	585.9	575.6	578.1	582.0	591.0	584.6	598.8
27.5°	641.4	645.2	636.2	627.2	609.1	597.5	593.6	592.3	602.7	592.3	603.9
30°	690.4	695.6	687.8	671.0	645.2	625.9	618.1	614.3	620.7	605.2	616.8
32.5°	743.3	748.5	743.3	730.4	695.6	667.2	656.9	647.8	653.0	632.3	637.5
35°	797.5	802.7	807.8	800.1	754.9	722.7	705.9	698.1	696.9	671.0	672.3
37.5°	845.3	850.4	867.2	874.9	833.6	789.8	774.3	757.5	758.8	722.7	722.7
40°	903.3	909.8	931.7	949.8	922.7	869.8	851.7	833.6	833.6	785.9	787.2
42.5°	982.0	989.8	1004.0	1028.5	1019.5	965.3	945.9	921.4	924.0	867.2	865.9
45°	1093.0	1098.2	1098.2	1113.7	1115.0	1063.3	1050.4	1025.9	1031.1	958.8	962.7
47.5°	1237.6	1231.1	1205.3	1214.3	1224.7	1170.5	1158.8	1143.4	1149.8	1072.4	1080.1
50°	1371.8	1366.6	1313.7	1316.3	1353.7	1298.2	1294.3	1275.0	1284.0	1206.6	1218.2
52.5°	1422.1	1413.1	1360.2	1388.5	1493.1	1462.1	1468.6	1459.5	1464.7	1382.1	1379.5
55°	1365.3	1365.3	1333.1	1384.7	1597.6	1614.4	1667.3	1687.9	1709.9	1627.3	1609.2
57.5°	1207.9	1218.2	1223.4	1315.0	1580.8	1653.1	1753.8	1841.5	1953.8	1948.6	1975.7
60°	947.2	965.3	995.0	1144.6	1508.6	1627.3	1757.6	1889.3	2044.1	2143.5	2290.6
62.5°	664.6	680.1	704.6	807.8	1298.2	1502.1	1690.5	1893.1	2090.6	2246.7	2440.3
65°	451.7	467.2	518.8	575.6	783.3	1080.1	1367.9	1703.4	2004.1	2294.5	2555.1
67.5°	325.2	334.2	374.2	469.7	521.4	575.6	682.7	1077.5	1447.9	2032.5	2413.2
70°	243.9	252.9	289.1	394.9	458.1	472.3	498.1	567.8	662.0	1142.1	1641.5
71°	203.9	216.8	260.7	371.7	455.5	467.2	478.8	520.1	551.0	807.8	1218.2
72.5°	143.2	152.3	193.6	343.3	437.5	464.6	491.7	490.4	487.8	551.0	736.9
75°	91.6	91.6	91.6	193.6	467.2	450.4	460.7	516.2	487.8	463.3	485.2
77.5°	72.3	71.0	67.1	96.8	365.2	456.8	483.9	498.1	525.2	483.9	462.0
80°	54.2	52.9	52.9	60.7	169.1	295.5	409.1	454.2	473.6	514.9	469.7
82.5°	28.4	28.4	31.0	36.1	63.2	103.2	211.6	348.4	389.7	392.3	396.2
85°	9.0	7.7	10.3	16.8	27.1	33.6	59.4	140.7	209.1	252.9	267.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	5.2	9.0	11.6
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	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0



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CATALOG NUMBER: ISS-AF-600-LED-E1-SL2-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	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



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	765.2	770.4	766.5	771.7	765.2	773.0	766.5	770.4	771.7	766.5	773.0
5°	738.1	753.6	748.5	760.1	754.9	765.2	760.1	770.4	770.4	766.5	775.6
7.5°	704.6	720.1	721.4	733.0	733.0	745.9	745.9	756.2	761.4	761.4	774.3
10°	671.0	685.2	687.8	700.7	703.3	718.8	718.8	733.0	743.3	747.2	762.7
12.5°	645.2	663.3	663.3	677.5	674.9	698.1	700.7	713.6	724.0	733.0	753.6
15°	629.8	646.5	646.5	660.7	658.1	681.4	685.2	698.1	713.6	718.8	747.2
17.5°	614.3	631.0	627.2	646.5	645.2	671.0	668.5	687.8	700.7	708.5	740.7
20°	601.4	620.7	618.1	637.5	632.3	660.7	660.7	680.1	693.0	699.4	736.9
22.5°	594.9	615.6	610.4	629.8	625.9	654.3	654.3	673.6	687.8	698.1	735.6
25°	594.9	613.0	607.8	629.8	623.3	654.3	653.0	672.3	686.5	695.6	736.9
27.5°	597.5	615.6	611.7	632.3	627.2	654.3	656.9	673.6	687.8	698.1	739.4
30°	606.5	623.3	614.3	633.6	629.8	655.6	654.3	672.3	686.5	699.4	739.4
32.5°	625.9	634.9	623.3	640.1	632.3	658.1	658.1	671.0	687.8	703.3	739.4
35°	653.0	659.4	641.4	653.0	638.8	664.6	663.3	677.5	690.4	703.3	742.0
37.5°	691.7	699.4	671.0	681.4	658.1	678.8	673.6	690.4	703.3	711.1	754.9
40°	749.8	752.3	714.9	722.7	690.4	708.5	695.6	718.8	725.2	730.4	774.3
42.5°	820.7	823.3	775.6	780.7	739.4	754.9	733.0	757.5	766.5	765.2	813.0
45°	908.5	909.8	855.6	859.5	811.7	824.6	797.5	818.2	824.6	820.7	869.8
47.5°	1004.0	1014.3	953.7	958.8	908.5	914.9	881.4	904.6	904.6	900.7	951.1
50°	1130.5	1145.9	1075.0	1082.7	1024.6	1029.8	991.1	1015.6	1013.0	1002.7	1059.5
52.5°	1287.9	1302.1	1227.2	1237.6	1175.6	1178.2	1130.5	1158.8	1151.1	1134.3	1200.1
55°	1480.2	1481.5	1411.8	1420.8	1358.9	1355.0	1295.6	1330.5	1318.9	1295.6	1356.3
57.5°	1788.6	1751.2	1636.3	1633.7	1566.6	1561.5	1485.3	1527.9	1508.6	1459.5	1539.5
60°	2285.4	2297.0	2004.1	1958.9	1833.8	1810.5	1709.9	1758.9	1735.7	1655.7	1734.4
62.5°	2565.5	2750.0	2731.9	2569.3	2246.7	2159.0	1988.6	2046.7	1986.0	1868.6	1942.2
65°	2773.2	3023.6	3168.1	3324.3	3179.7	2821.0	2418.3	2499.6	2351.2	2128.0	2199.0
67.5°	2850.7	3152.6	3457.2	3679.1	3830.1	3857.2	3391.4	3413.3	3048.1	2601.6	2610.6
70°	2445.4	2890.7	3486.9	3768.2	4067.6	4214.7	4263.7	4240.5	4004.3	3372.0	3130.7
71°	2072.5	2611.9	3368.1	3681.7	4065.0	4206.9	4336.0	4292.1	4182.4	3677.8	3307.5
72.5°	1404.0	2081.5	3021.0	3418.5	3929.5	4032.7	4226.3	4148.9	4125.6	3906.3	3472.7
75°	660.7	1037.5	1965.4	2566.7	3325.5	3424.9	3627.5	3532.0	3471.4	3546.2	3303.6
77.5°	486.5	566.5	1078.8	1595.0	2418.3	2559.0	2733.2	2615.8	2538.4	2613.2	2444.2
80°	442.6	445.2	558.8	841.4	1442.7	1526.6	1592.4	1496.9	1379.5	1374.4	1218.2
82.5°	407.8	385.9	362.6	445.2	739.4	703.3	650.4	602.7	468.4	375.5	271.0
85°	259.4	283.9	258.1	243.9	294.2	242.6	192.3	184.5	130.3	87.8	81.3
87.5°	18.1	20.6	24.5	28.4	34.8	28.4	18.1	21.9	12.9	0.0	6.5
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°	12.0	13.0	11.5	10.0	8.5	7.0	6.5	6.4	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.0	30.5	30.0	29.2	29.1	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.5	50.2	50.0	49.5	49.4	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	70.5	70.4	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.5	92.2	92.0	91.8	91.7	91.5	91.2	91.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
110°	113.5	114.0	114.0	114.0	114.0	114.0	113.8	113.7	113.5	113.2	113.0
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	135.8	135.7	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.5	180.8	181.0	180.8	180.7	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.2	228.3	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.5	253.8	254.0	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.5	277.2	277.0	277.2	277.3	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.2	301.3	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.2	325.3	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.2	348.3	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.2	369.3	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.5	390.6	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.2	412.3	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.5	433.2	433.0	433.2	433.3	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.0	452.5	452.0	452.2	452.3	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.0	469.5	469.0	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.5	486.2	486.0	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.5	503.2	503.0	503.2	503.3	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.0	517.5	517.0	517.2	517.3	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.0	530.5	530.0	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.0	540.5	540.0	539.5	539.4	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.5	550.8	550.0	549.5	549.4	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.0	558.5	558.0	558.2	558.3	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.5	564.2	564.0	564.5	564.6	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.0	567.5	567.0	567.2	567.3	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.5	570.8	570.0	569.5	569.4	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.5	574.8	574.0	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4
2.5°	764.0	770.4	773.0	771.7	769.1	766.5	757.5	764.0	754.9	761.4	753.6
5°	767.8	776.9	778.2	775.6	773.0	767.8	752.3	761.4	751.1	756.2	744.6
7.5°	766.5	780.7	782.0	779.4	774.3	765.2	749.8	756.2	739.4	743.3	727.8
10°	760.1	780.7	782.0	775.6	767.8	753.6	735.6	738.1	721.4	721.4	700.7
12.5°	753.6	778.2	784.6	775.6	762.7	743.3	722.7	720.1	700.7	699.4	676.2
15°	753.6	780.7	789.8	778.2	758.8	731.7	707.2	702.0	680.1	673.6	647.8
17.5°	752.3	780.7	793.6	778.2	754.9	720.1	689.1	684.0	655.6	645.2	615.6
20°	751.1	783.3	796.2	775.6	743.3	705.9	671.0	660.7	629.8	613.0	578.1
22.5°	749.8	788.5	798.8	773.0	735.6	687.8	651.7	633.6	597.5	575.6	534.3
25°	756.2	794.9	800.1	770.4	724.0	668.5	629.8	605.2	565.2	536.8	487.8
27.5°	758.8	801.4	802.7	765.2	709.8	647.8	606.5	573.0	527.8	493.0	437.5
30°	766.5	802.7	798.8	754.9	693.0	622.0	579.4	538.1	487.8	442.6	376.8
32.5°	769.1	806.5	796.2	743.3	676.2	596.2	548.5	500.7	440.1	387.1	307.1
35°	774.3	809.1	793.6	736.9	658.1	569.1	516.2	462.0	392.3	325.2	233.6
37.5°	782.0	820.7	800.1	734.3	649.1	545.9	480.1	422.0	335.5	256.8	154.9
40°	801.4	844.0	811.7	738.1	642.7	526.5	445.2	380.7	271.0	189.7	107.1
42.5°	840.1	884.0	841.4	757.5	646.5	509.7	409.1	336.8	205.2	135.5	89.0
45°	898.2	935.6	890.4	789.8	662.0	500.7	375.5	291.6	147.1	108.4	81.3
47.5°	983.3	1019.5	962.7	841.4	689.1	496.8	340.7	243.9	113.6	98.1	78.7
50°	1095.6	1138.2	1067.2	922.7	739.4	500.7	303.3	198.7	99.4	95.5	77.4
52.5°	1233.7	1275.0	1204.0	1042.7	822.0	522.6	263.3	172.9	94.2	94.2	76.1
55°	1389.8	1447.9	1378.2	1209.2	949.8	570.4	238.7	163.9	94.2	95.5	74.8
57.5°	1574.4	1623.4	1561.5	1369.2	1103.4	649.1	241.3	172.9	94.2	95.5	73.6
60°	1755.0	1815.7	1744.7	1573.1	1278.9	767.8	294.2	219.4	98.1	99.4	73.6
62.5°	1943.5	1989.9	1931.8	1751.2	1477.6	914.9	400.0	317.5	113.6	117.4	78.7
65°	2149.9	2226.1	2165.4	2017.0	1758.9	1149.8	601.4	476.2	167.8	136.8	86.5
67.5°	2507.4	2538.4	2508.7	2373.2	2088.0	1343.4	716.2	483.9	167.8	132.9	96.8
70°	2991.3	2921.6	2788.7	2535.8	2122.8	1205.3	513.6	295.5	143.2	126.5	101.9
71°	3103.6	2996.5	2800.3	2495.8	2050.6	1087.9	398.8	233.6	134.2	123.9	101.9
72.5°	3172.0	3012.0	2715.2	2378.3	1908.6	856.9	263.3	183.2	122.6	117.4	98.1
75°	3082.9	2787.4	2397.7	2058.3	1562.8	445.2	165.2	139.4	104.5	101.9	85.2
77.5°	2448.0	2188.6	1769.2	1495.7	1005.3	197.4	118.7	105.8	82.6	80.0	65.8
80°	1142.1	916.2	536.8	460.7	316.2	116.1	81.3	72.3	59.4	56.8	46.5
82.5°	207.8	156.1	121.3	117.4	105.8	68.4	47.7	43.9	37.4	36.1	29.7
85°	71.0	68.4	51.6	51.6	52.9	36.1	27.1	25.8	19.4	19.4	12.9
87.5°	1.3	6.5	6.5	9.0	7.7	6.5	2.6	3.9	1.3	3.9	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°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8	0°
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	2.5°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	7.5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	10°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	12.5°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	15°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	17.5°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	20°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	22.5°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	25°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	27.5°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	30°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	32.5°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	35°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	37.5°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	40°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	42.5°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	45°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	47.5°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	50°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	52.5°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	55°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	57.5°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	60°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	62.5°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	65°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	67.5°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°
												71°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	110°	115°
770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	770.4	110°	114.0
760.1	749.8	758.8	749.8	754.9	744.6	751.1	747.2	747.2	743.3	740.7	112.5°	136.0
748.5	735.6	742.0	731.7	736.9	721.4	725.2	718.8	705.9	698.1	687.8	115°	158.0
731.7	712.3	717.5	702.0	705.9	685.2	689.1	677.5	653.0	637.5	622.0	117.5°	181.0
702.0	684.0	685.2	665.9	664.6	643.9	640.1	624.6	588.5	562.6	542.0	120°	204.0
672.3	651.7	649.1	625.9	622.0	597.5	592.3	567.8	514.9	464.6	432.3	122.5°	228.0
641.4	615.6	607.8	583.3	569.1	548.5	534.3	498.1	422.0	356.2	313.6	125°	254.0
606.5	573.0	561.4	533.0	512.3	481.3	460.7	411.7	313.6	242.6	212.9	127.5°	277.0
561.4	525.2	504.6	468.4	441.3	403.9	378.1	314.9	209.1	172.9	169.1	130°	301.0
511.0	468.4	442.6	397.5	363.9	323.9	282.6	212.9	148.4	140.7	145.8	132.5°	325.0
458.1	405.2	371.7	316.2	271.0	224.5	185.8	142.0	121.3	120.0	127.8	135°	348.0
394.9	334.2	286.5	220.7	179.4	143.2	126.5	112.3	103.2	104.5	112.3	137.5°	369.0
325.2	246.5	196.2	138.1	120.0	104.5	101.9	96.8	92.9	95.5	100.7	140°	390.0
242.6	157.4	126.5	99.4	98.1	89.0	91.6	89.0	87.8	89.0	92.9	142.5°	412.0
163.9	104.5	99.4	85.2	87.8	81.3	85.2	83.9	82.6	82.6	85.2	145°	433.0
113.6	86.5	89.0	78.7	82.6	77.4	81.3	80.0	78.7	77.4	78.7	147.5°	452.0
94.2	78.7	82.6	74.8	78.7	73.6	77.4	76.1	74.8	72.3	72.3	150°	469.0
86.5	74.8	78.7	71.0	76.1	69.7	74.8	72.3	69.7	67.1	68.4	152.5°	486.0
83.9	72.3	76.1	68.4	73.6	67.1	71.0	69.7	64.5	63.2	64.5	155°	503.0
81.3	71.0	74.8	67.1	71.0	64.5	68.4	65.8	60.7	59.4	60.7	157.5°	517.0
80.0	68.4	72.3	64.5	68.4	63.2	65.8	63.2	58.1	56.8	56.8	160°	530.0
78.7	67.1	71.0	61.9	65.8	58.1	61.9	59.4	54.2	52.9	52.9	162.5°	540.0
78.7	65.8	68.4	59.4	63.2	55.5	58.1	55.5	52.9	50.3	50.3	165°	550.0
77.4	63.2	67.1	56.8	59.4	52.9	55.5	52.9	49.0	47.7	47.7	167.5°	558.0
77.4	61.9	65.8	55.5	58.1	50.3	52.9	50.3	46.5	45.2	45.2	170°	564.0
81.3	64.5	67.1	56.8	58.1	50.3	51.6	47.7	43.9	43.9	42.6	172.5°	567.0
89.0	72.3	72.3	59.4	59.4	50.3	51.6	46.5	41.3	41.3	41.3	175°	570.0
96.8	80.0	78.7	63.2	61.9	50.3	50.3	43.9	38.7	38.7	38.7	177.5°	574.0
101.9	83.9	81.3	64.5	61.9	49.0	47.7	41.3	36.1	36.1	36.1	180°	576.0
100.7	83.9	80.0	63.2	59.4	46.5	46.5	40.0	34.8	34.8	33.6		
95.5	78.7	74.8	59.4	56.8	43.9	43.9	37.4	32.3	32.3	31.0		
81.3	67.1	63.2	50.3	47.7	38.7	37.4	31.0	28.4	27.1	27.1		
63.2	52.9	49.0	40.0	38.7	31.0	29.7	25.8	23.2	23.2	21.9		
45.2	37.4	34.8	27.1	24.5	20.6	21.9	19.4	18.1	18.1	16.8		
27.1	19.4	19.4	15.5	16.8	12.9	14.2	14.2	12.9	10.3	10.3		
14.2	9.0	11.6	6.5	9.0	3.9	6.5	5.2	5.2	3.9	3.9		
2.6	0.0	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	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		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		

'228058
 ISS-AF-600-LED-E1-SL2-7050-ULG

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TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0	0°	770.4	770.4
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	2.5°	733.0	734.3
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	5°	682.7	685.2
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	7.5°	610.4	614.3
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	10°	523.9	526.5
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	12.5°	413.0	413.0
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	15°	289.1	291.6
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	17.5°	202.6	203.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	20°	170.3	171.6
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	22.5°	152.3	153.6
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	25°	135.5	136.8
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	27.5°	117.4	118.7
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	30°	105.8	107.1
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	32.5°	95.5	96.8
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	35°	86.5	86.5
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	37.5°	80.0	80.0
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	40°	73.6	73.6
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	42.5°	69.7	69.7
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	45°	65.8	65.8
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	47.5°	61.9	61.9
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	50°	58.1	59.4
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	52.5°	54.2	54.2
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	55°	50.3	50.3
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	57.5°	46.5	47.7
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	60°	43.9	43.9
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	62.5°	41.3	41.3
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	65°	40.0	40.0
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	67.5°	37.4	37.4
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	70°	34.8	34.8
										71°	33.6	33.6
										72.5°	31.0	31.0
										75°	27.1	25.8
										77.5°	21.9	21.9
										80°	16.8	15.5
										82.5°	10.3	9.0
										85°	3.9	2.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
110°	102.0	101.0
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

