

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: P228186

Luminaire Tested: **ISS-AF-600-LED-E1-SL3-8030-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-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-SL3-8030-ULG
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, 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: 4393.2 lumens
Efficiency: N/A
Efficacy: 87.2 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

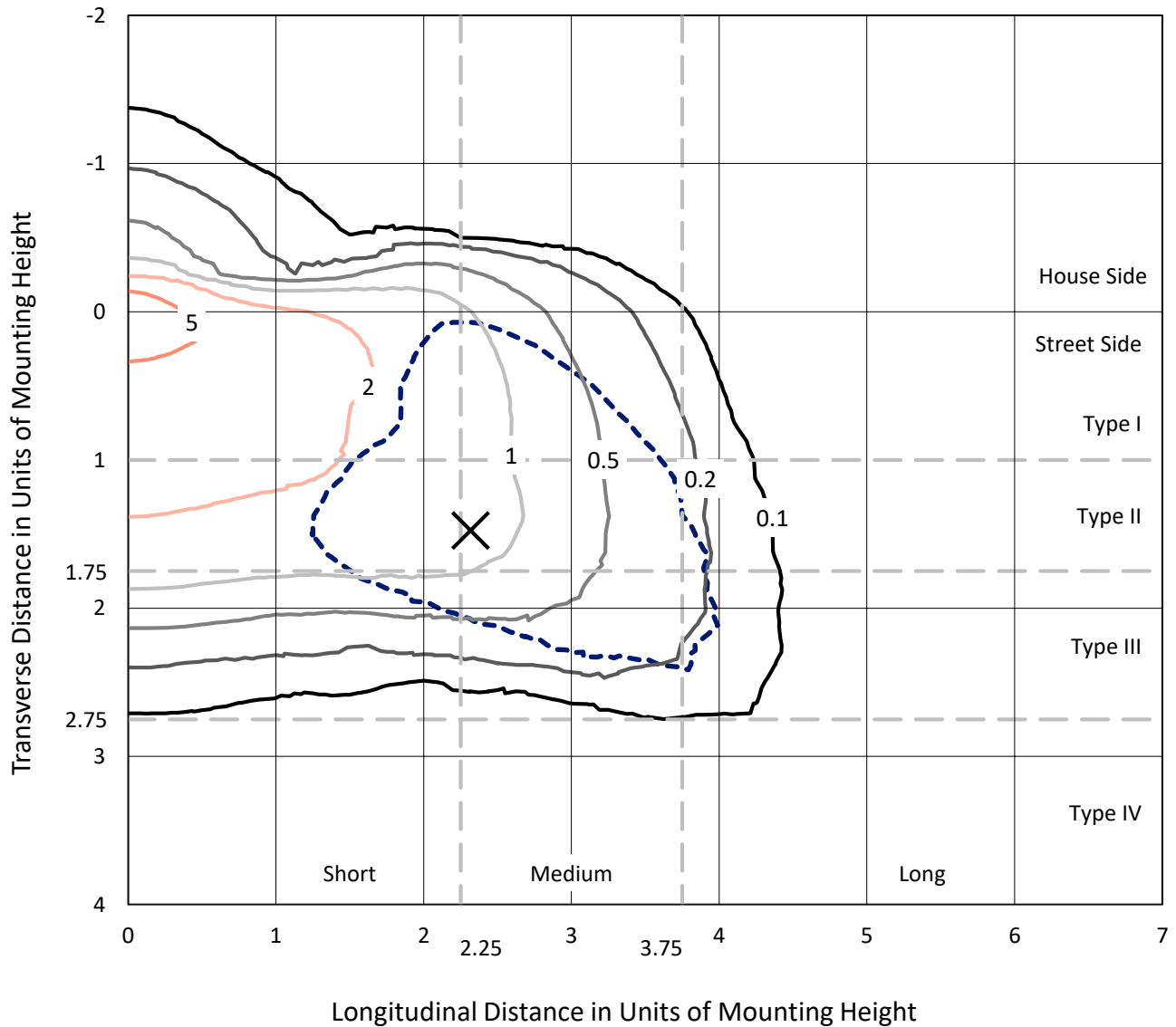


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Iso-Footcandle Lines of Horizontal Illumination

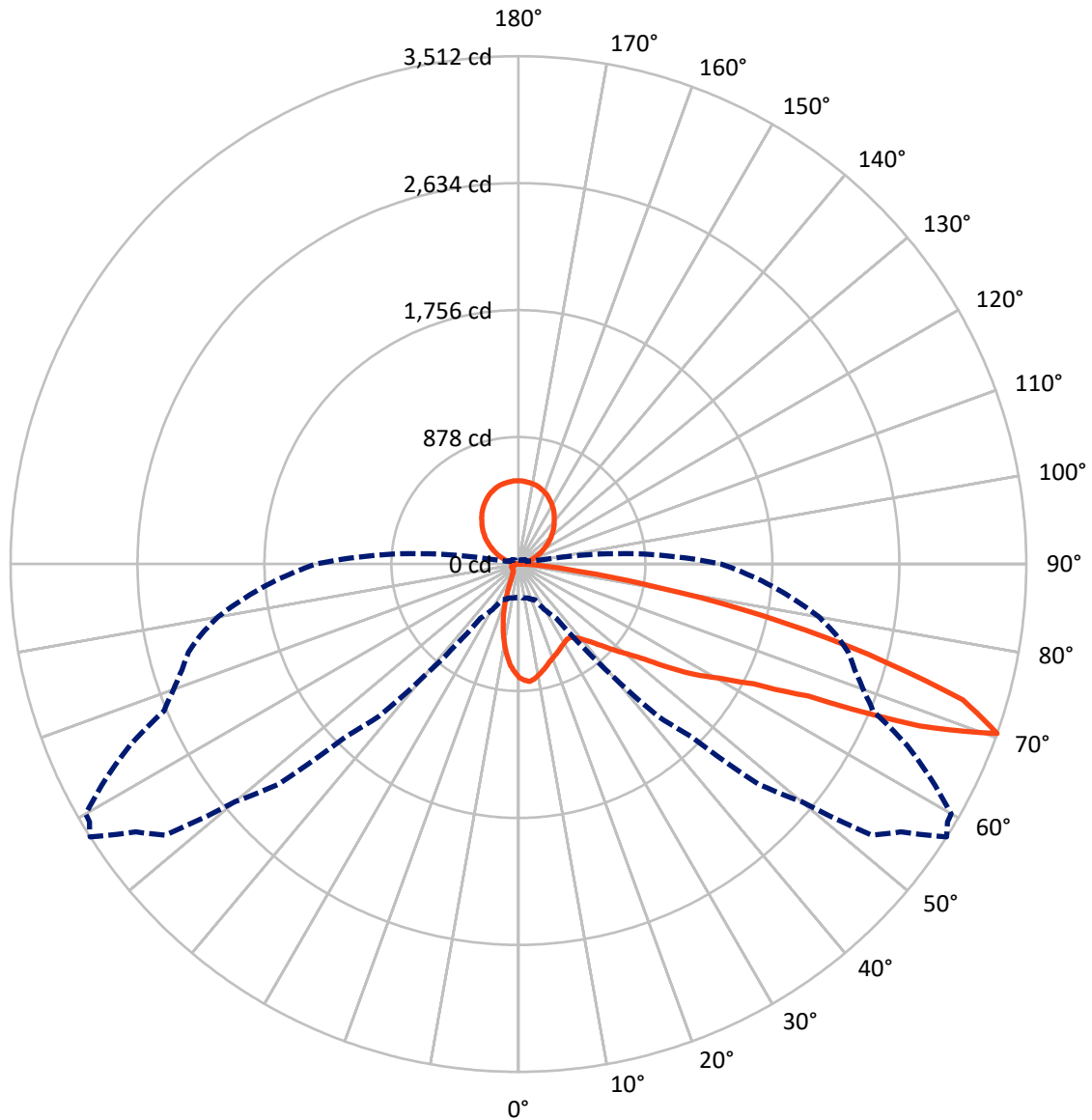
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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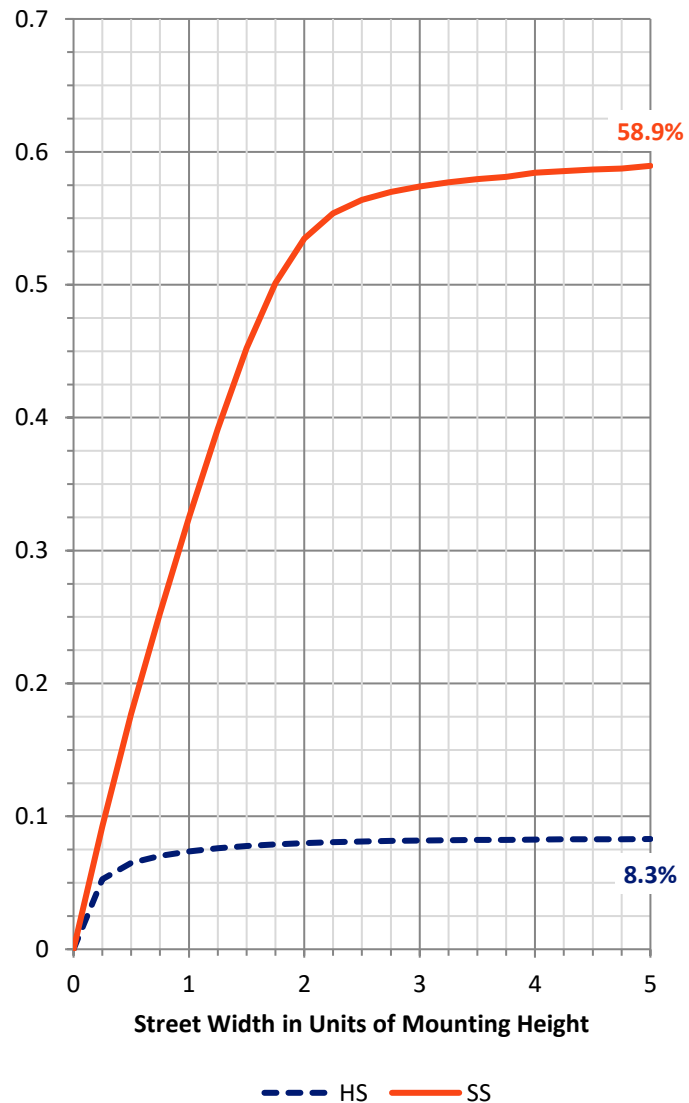
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	367.2	713.1	1080.2
	% Fixture	8.4	16.2	24.6
Street Side	Lumens	2599.8	713.1	3312.9
	% Fixture	59.2	16.2	75.4
Total	Lumens	2967.0	1426.2	4393.2
	% Fixture	67.5	32.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.5
10°-20°	147.2	3.4
20°-30°	185.0	4.2
30°-40°	241.8	5.5
40°-50°	362.8	8.3
50°-60°	573.5	13.1
60°-70°	826.6	18.8
70°-80°	511.6	11.6
80°-90°	50.7	1.2
90°-100°	4.7	0.1
100°-110°	69.0	1.6
110°-120°	153.0	3.5
120°-130°	223.9	5.1
130°-140°	265.6	6.0
140°-150°	269.3	6.1
150°-160°	231.1	5.3
160°-170°	155.1	3.5
170°-180°	54.3	1.2
0°-90°	2967.0	67.5
0°-180°	4393.2	100.0



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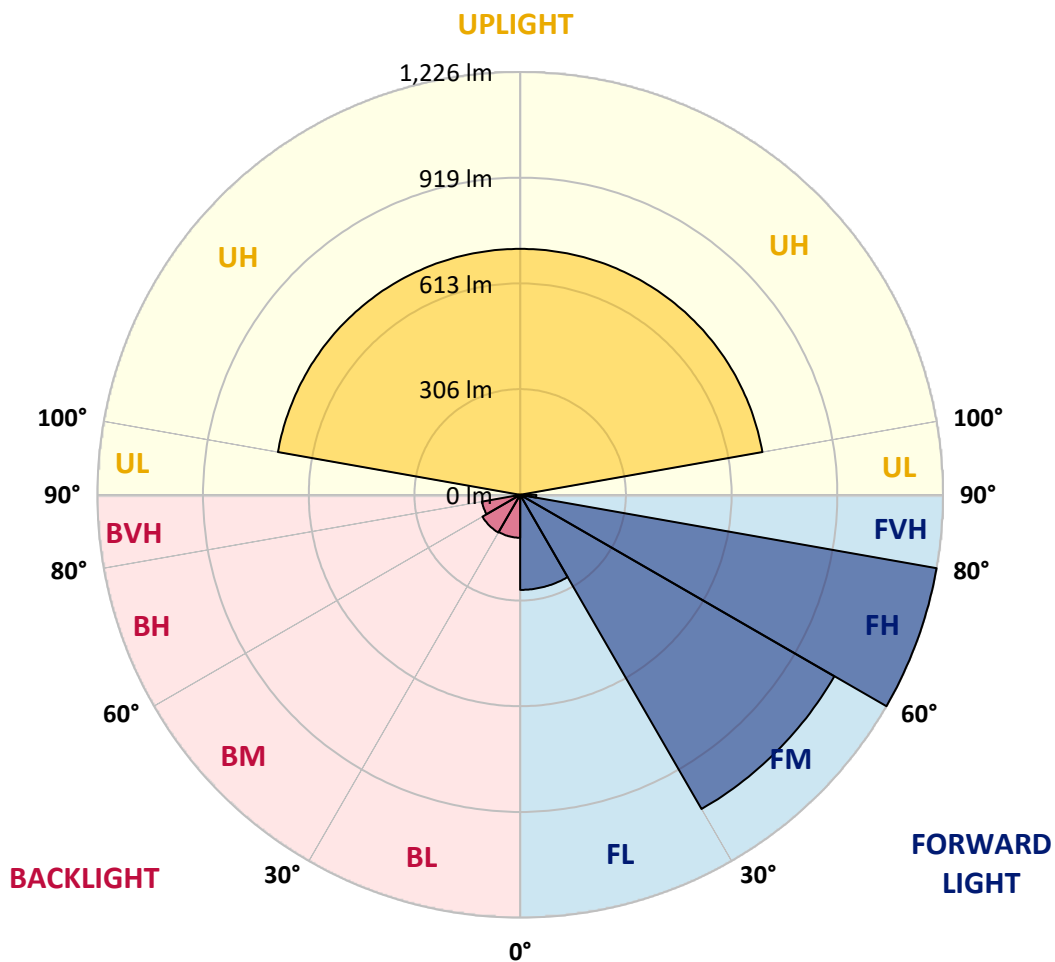
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.6	6.3			
FM (30°-60°)	1051.8	23.9			
FH (60°-80°)	1225.8	27.9			G1/1800
FVH (80°-90°)	46.7	1.1			G1/100
BL (0°-30°)	124.5	2.8	B1/500		
BM (30°-60°)	126.3	2.9	B0/220		
BH (60°-80°)	112.4	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	16.2		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°	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3
2.5°	824.3	823.2	821.1	816.9	814.8	816.9	814.8	811.6	807.4	810.6	808.5
5°	822.2	824.3	820.1	816.9	822.2	824.3	820.1	820.1	815.8	820.1	817.9
7.5°	781.1	782.2	783.2	782.2	795.8	795.8	793.7	795.8	796.9	799.0	800.1
10°	729.5	730.6	732.7	735.8	752.7	754.8	755.8	757.9	761.1	763.2	769.5
12.5°	677.9	680.0	684.3	694.8	712.7	714.8	717.9	721.1	726.4	729.5	741.1
15°	634.8	635.8	640.0	651.6	677.9	683.2	685.3	689.5	700.0	700.0	712.7
17.5°	594.8	596.9	600.0	613.7	640.0	648.5	654.8	656.9	670.6	673.7	688.5
20°	564.2	565.3	566.4	579.0	603.2	615.8	621.1	629.5	640.0	648.5	661.1
22.5°	547.4	548.5	546.4	551.6	572.7	588.5	594.8	603.2	607.4	622.1	629.5
25°	548.5	549.5	544.2	541.1	551.6	568.5	573.7	582.1	580.0	601.1	601.1
27.5°	559.0	561.1	555.8	546.4	547.4	561.1	564.2	567.4	561.1	582.1	577.9
30°	580.0	582.1	575.8	568.5	556.9	565.3	565.3	565.3	553.7	571.6	564.2
32.5°	602.1	604.2	602.1	596.9	582.1	584.2	580.0	577.9	562.1	576.9	565.3
35°	634.8	635.8	636.9	636.9	615.8	620.0	608.5	602.1	587.4	599.0	583.2
37.5°	673.7	673.7	681.1	684.3	661.1	661.1	648.5	640.0	626.4	630.6	614.8
40°	708.5	711.6	728.5	737.9	716.9	708.5	697.9	690.6	680.0	680.0	664.3
42.5°	748.5	754.8	774.8	792.7	781.1	768.5	757.9	750.6	745.3	744.3	727.4
45°	797.9	805.3	827.4	844.3	847.4	837.9	829.5	822.2	817.9	815.8	801.1
47.5°	853.7	861.1	881.1	901.1	915.8	913.7	904.3	896.9	900.1	898.0	888.5
50°	915.8	920.1	932.7	955.9	989.5	996.9	994.8	989.5	995.9	995.9	987.4
52.5°	965.3	968.5	978.0	1005.3	1061.1	1078.0	1091.7	1102.2	1112.7	1119.0	1113.8
55°	1010.6	1010.6	1011.6	1046.4	1129.5	1156.9	1187.4	1209.6	1223.2	1248.5	1259.0
57.5°	1084.3	1079.0	1078.0	1114.8	1211.7	1240.1	1284.3	1315.9	1334.8	1386.4	1385.4
60°	1063.2	1065.3	1103.2	1211.7	1380.1	1405.4	1445.4	1479.0	1514.8	1552.7	1555.9
62.5°	916.9	922.2	979.0	1141.1	1487.5	1619.1	1742.2	1835.9	1888.5	1922.2	1875.9
65°	642.1	654.8	731.6	929.5	1369.6	1572.7	1767.5	1984.3	2150.7	2408.6	2483.3
67.5°	320.0	329.5	342.1	487.4	1023.2	1308.5	1576.9	1872.8	2093.8	2472.8	2684.4
70°	229.5	233.7	243.2	273.7	457.9	685.3	1001.1	1424.3	1684.3	2255.9	2554.9
72.5°	177.9	182.1	194.7	237.9	303.2	334.8	397.9	650.6	967.4	1558.0	1962.2
75°	137.9	144.2	162.1	214.8	291.6	309.5	312.7	335.8	383.2	691.6	1100.1
77.5°	96.8	97.9	115.8	185.3	283.2	317.9	312.7	312.7	319.0	352.7	470.6
80°	64.2	65.3	76.8	128.4	248.4	289.5	320.0	305.3	306.3	311.6	320.0
82.5°	33.7	35.8	45.3	77.9	145.3	195.8	266.3	277.9	273.7	279.0	276.9
85°	9.5	9.5	15.8	29.5	71.6	75.8	117.9	161.1	164.2	186.3	199.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.2	9.5	10.5
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°	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
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
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°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3
2.5°	810.6	806.4	805.3	803.2	804.3	801.1	800.1	795.8	795.8	793.7	791.6
5°	815.8	811.6	815.8	808.5	809.5	806.4	801.1	801.1	796.9	793.7	787.4
7.5°	801.1	801.1	802.2	797.9	799.0	797.9	791.6	790.6	784.3	784.3	776.9
10°	773.7	773.7	777.9	774.8	775.8	774.8	771.6	770.6	768.5	768.5	756.9
12.5°	742.2	748.5	754.8	751.6	751.6	753.7	753.7	754.8	753.7	752.7	743.2
15°	715.8	725.3	731.6	730.6	731.6	736.9	739.0	740.0	743.2	742.2	733.7
17.5°	691.6	702.2	707.4	711.6	714.8	719.0	725.3	728.5	732.7	731.6	723.2
20°	669.5	679.0	688.5	693.7	694.8	703.2	710.6	720.0	722.2	724.3	713.7
22.5°	646.4	654.8	673.7	670.6	677.9	693.7	697.9	711.6	711.6	719.0	704.3
25°	626.4	627.4	656.9	651.6	657.9	686.4	689.5	713.7	707.4	717.9	701.1
27.5°	606.4	605.3	641.1	634.8	642.1	681.1	683.2	716.9	710.6	723.2	701.1
30°	591.6	588.5	629.5	616.9	627.4	675.8	676.9	720.0	714.8	731.6	708.5
32.5°	588.5	583.2	619.0	609.5	620.0	670.6	676.9	731.6	725.3	746.4	716.9
35°	602.1	593.7	624.3	615.8	624.3	672.7	682.1	749.5	742.2	766.4	736.9
37.5°	627.4	621.1	646.4	637.9	644.3	687.4	695.8	772.7	771.6	801.1	767.4
40°	671.6	665.3	685.3	673.7	679.0	719.0	723.2	805.3	808.5	844.3	810.6
42.5°	731.6	721.1	736.9	723.2	730.6	766.4	762.2	845.3	854.8	904.3	865.3
45°	808.5	794.8	804.3	789.5	794.8	825.3	813.7	899.0	908.5	969.5	934.8
47.5°	892.7	875.8	887.4	868.5	871.6	904.3	883.2	963.2	978.0	1054.8	1021.1
50°	993.7	971.6	975.9	958.0	960.1	992.7	969.5	1042.2	1060.1	1145.3	1115.9
52.5°	1123.2	1091.7	1091.7	1067.4	1068.5	1101.1	1072.7	1135.9	1155.9	1242.2	1222.2
55°	1293.8	1268.5	1263.2	1238.0	1229.6	1235.9	1195.9	1240.1	1262.2	1343.2	1327.5
57.5°	1429.6	1426.4	1442.2	1406.4	1398.0	1400.1	1349.6	1352.7	1378.0	1441.1	1446.4
60°	1594.8	1600.1	1602.2	1572.7	1569.6	1540.1	1488.5	1480.1	1511.7	1554.8	1571.7
62.5°	1858.0	1852.8	1826.4	1804.3	1784.3	1705.4	1677.0	1630.6	1674.8	1699.1	1733.8
65°	2423.3	2368.6	2200.1	2214.9	2162.2	1990.7	1966.4	1872.8	1942.2	1943.3	2008.6
67.5°	2983.4	3090.7	2987.6	2989.7	2870.7	2560.2	2485.4	2299.1	2338.0	2292.8	2326.5
70°	3079.1	3229.7	3511.8	3461.3	3455.0	3216.0	2964.4	2653.9	2537.0	2440.2	2362.3
72.5°	2649.6	2800.2	3213.9	3099.1	3142.3	3214.9	2952.8	2720.2	2459.1	2335.9	2167.5
75°	1864.3	2081.2	2501.2	2441.2	2472.8	2592.8	2367.5	2340.2	2038.0	1955.9	1697.0
77.5°	999.0	1267.5	1738.0	1664.3	1678.0	1746.4	1511.7	1463.3	1171.7	1090.6	796.9
80°	449.5	623.2	975.9	893.7	869.5	830.6	611.6	482.1	294.8	195.8	135.8
82.5°	297.9	309.5	432.7	374.8	350.5	289.5	187.4	110.5	87.4	73.7	70.5
85°	200.0	183.2	182.1	161.1	149.5	117.9	87.4	54.7	45.3	37.9	34.7
87.5°	11.6	7.4	10.5	11.6	8.4	7.4	5.3	0.0	1.1	0.0	1.1
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	10.6	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.2	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.6	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.6	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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CATALOG NUMBER: ISS-AF-600-LED-E1-SL3-8030-ULG

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	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	180.4	180.5	180.8	181.0	180.8	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	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.4	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.6	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.6	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.2	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.2	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.6	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.6	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.2	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.2	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.2	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.8	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.2	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.6	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.2	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.8	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.8	575.5	574.8	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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CATALOG NUMBER: ISS-AF-600-LED-E1-SL3-8030-ULG

CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3
2.5°	786.4	786.4	785.3	777.9	773.7	771.6	764.3	763.2	760.0	759.0	759.0
5°	785.3	781.1	775.8	765.3	754.8	745.3	742.2	734.8	729.5	723.2	723.2
7.5°	770.6	766.4	754.8	739.0	725.3	711.6	704.3	693.7	685.3	676.9	674.8
10°	753.7	747.4	731.6	710.6	692.7	668.5	659.0	645.3	635.8	623.2	610.6
12.5°	735.8	731.6	712.7	688.5	661.1	630.6	615.8	596.9	584.2	569.5	550.6
15°	728.5	720.0	695.8	665.3	631.6	594.8	573.7	553.7	534.8	517.9	492.7
17.5°	719.0	708.5	681.1	645.3	603.2	559.0	531.6	509.5	484.2	466.3	437.9
20°	708.5	692.7	663.2	620.0	572.7	520.0	485.3	463.2	429.5	411.6	377.9
22.5°	700.0	680.0	644.3	595.8	539.0	480.0	439.0	413.7	375.8	354.8	312.7
25°	697.9	673.7	630.6	575.8	510.6	441.1	391.6	366.3	319.0	294.8	245.3
27.5°	699.0	670.6	622.1	559.0	485.3	406.3	347.4	317.9	257.9	232.6	175.8
30°	700.0	671.6	613.7	544.2	462.1	370.6	301.1	266.3	194.7	172.6	122.1
32.5°	710.6	675.8	611.6	532.7	441.1	334.8	248.4	216.9	137.9	125.3	90.5
35°	723.2	689.5	615.8	530.6	425.3	299.0	194.7	162.1	99.0	95.8	73.7
37.5°	749.5	710.6	632.7	535.8	415.8	262.1	145.3	124.2	77.9	80.0	64.2
40°	789.5	746.4	660.0	551.6	414.8	225.3	107.4	96.8	67.4	69.5	59.0
42.5°	843.2	795.8	702.2	585.3	420.0	190.5	86.3	83.2	62.1	64.2	56.8
45°	913.7	865.3	761.1	628.5	434.8	162.1	75.8	75.8	60.0	62.1	55.8
47.5°	1003.2	949.5	833.7	686.4	457.9	146.3	71.6	72.6	59.0	62.1	55.8
50°	1104.3	1045.3	926.4	761.1	493.7	142.1	72.6	72.6	60.0	62.1	55.8
52.5°	1209.6	1154.8	1026.4	846.4	543.2	151.6	74.7	73.7	60.0	62.1	54.7
55°	1316.9	1267.5	1136.9	946.4	611.6	185.3	80.0	76.8	60.0	62.1	55.8
57.5°	1424.3	1389.6	1252.7	1053.8	696.9	246.3	101.1	89.5	66.3	67.4	56.8
60°	1545.4	1520.1	1383.2	1194.8	817.9	341.1	148.4	112.6	79.0	74.7	61.1
62.5°	1702.2	1695.9	1587.5	1398.0	1012.7	477.9	210.5	136.9	85.3	77.9	65.3
65°	1979.1	1995.9	1892.8	1635.9	1142.2	481.1	205.3	120.0	80.0	73.7	64.2
67.5°	2257.0	2207.5	1942.2	1600.1	1030.6	320.0	130.5	93.7	70.5	68.4	60.0
70°	2246.5	2111.7	1761.2	1399.0	813.7	173.7	94.7	77.9	63.2	63.2	56.8
72.5°	2014.9	1814.9	1440.1	1107.4	543.2	110.5	80.0	68.4	57.9	56.8	52.6
75°	1516.9	1281.1	925.3	637.9	242.1	71.6	61.1	55.8	50.5	50.5	46.3
77.5°	713.7	402.1	223.2	148.4	81.1	48.4	42.1	42.1	41.1	42.1	37.9
80°	96.8	87.4	74.7	65.3	49.5	33.7	30.5	31.6	30.5	31.6	28.4
82.5°	59.0	52.6	43.2	41.1	30.5	23.2	22.1	23.2	21.1	22.1	16.8
85°	28.4	25.3	20.0	18.9	15.8	13.7	11.6	13.7	10.5	11.6	7.4
87.5°	0.0	2.1	1.1	2.1	2.1	2.1	0.0	2.1	0.0	2.1	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
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



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

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REPORT NUMBER: P
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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3	112.5°	136.0
753.7	750.6	749.5	745.3	744.3	740.0	739.0	734.8	727.4	724.3	719.0	115°	158.0
713.7	708.5	704.3	702.2	693.7	689.5	683.2	674.8	659.0	651.6	639.0	117.5°	181.0
657.9	656.9	644.3	640.0	629.5	622.1	612.7	599.0	575.8	562.1	542.1	120°	204.0
596.9	592.7	577.9	569.5	555.8	545.3	532.7	512.7	476.9	448.5	417.9	122.5°	228.0
540.0	527.4	510.6	497.9	481.1	466.3	451.6	421.1	364.2	317.9	275.8	125°	254.0
481.1	462.1	444.2	423.2	405.3	382.1	365.3	325.3	250.5	193.7	167.4	127.5°	277.0
421.1	394.8	374.8	346.3	326.3	294.8	276.9	228.4	164.2	139.0	130.5	130°	301.0
357.9	323.2	301.1	266.3	246.3	206.3	192.6	157.9	126.3	116.8	114.7	132.5°	325.0
290.5	248.4	224.2	186.3	172.6	148.4	137.9	121.1	106.3	102.1	104.2	135°	348.0
220.0	174.7	159.0	131.6	126.3	113.7	109.5	101.1	93.7	93.7	96.8	137.5°	369.0
156.9	122.1	117.9	101.1	100.0	93.7	90.5	86.3	84.2	86.3	90.5	140°	390.0
114.7	92.6	92.6	83.2	83.2	79.0	77.9	75.8	75.8	80.0	84.2	142.5°	412.0
90.5	75.8	77.9	70.5	71.6	68.4	69.5	68.4	69.5	72.6	75.8	145°	433.0
75.8	65.3	68.4	62.1	64.2	61.1	63.2	63.2	65.3	66.3	67.4	147.5°	452.0
67.4	60.0	62.1	57.9	60.0	56.8	60.0	60.0	61.1	61.1	61.1	150°	469.0
62.1	55.8	59.0	54.7	57.9	54.7	57.9	57.9	56.8	55.8	56.8	152.5°	486.0
59.0	54.7	57.9	53.7	56.8	53.7	55.8	54.7	52.6	52.6	52.6	155°	503.0
57.9	53.7	55.8	52.6	54.7	51.6	53.7	52.6	49.5	48.4	50.5	157.5°	517.0
57.9	52.6	55.8	51.6	53.7	50.5	52.6	49.5	46.3	46.3	49.5	160°	530.0
57.9	52.6	55.8	51.6	53.7	49.5	50.5	47.4	43.2	44.2	48.4	162.5°	540.0
59.0	54.7	56.8	52.6	53.7	47.4	49.5	45.3	42.1	43.2	46.3	165°	550.0
60.0	54.7	56.8	50.5	51.6	47.4	47.4	45.3	42.1	42.1	45.3	167.5°	558.0
60.0	53.7	54.7	49.5	50.5	45.3	46.3	44.2	41.1	40.0	42.1	170°	564.0
62.1	55.8	55.8	48.4	49.5	44.2	45.3	43.2	40.0	37.9	38.9	172.5°	567.0
64.2	56.8	57.9	50.5	50.5	45.3	46.3	42.1	37.9	35.8	36.8	175°	570.0
64.2	56.8	57.9	51.6	51.6	46.3	46.3	42.1	35.8	33.7	33.7	177.5°	574.0
61.1	55.8	56.8	51.6	51.6	46.3	46.3	41.1	34.7	31.6	30.5	180°	576.0
59.0	53.7	54.7	48.4	49.5	44.2	44.2	38.9	32.6	29.5	27.4		
53.7	49.5	49.5	45.3	44.2	38.9	38.9	35.8	30.5	26.3	24.2		
46.3	42.1	41.1	36.8	36.8	33.7	32.6	29.5	25.3	22.1	21.1		
37.9	32.6	32.6	27.4	27.4	24.2	25.3	22.1	18.9	17.9	16.8		
27.4	22.1	22.1	17.9	17.9	14.7	15.8	14.7	13.7	13.7	12.6		
16.8	11.6	12.6	9.5	11.6	8.4	9.5	8.4	8.4	7.4	7.4		
8.4	4.2	6.3	3.2	5.3	1.1	3.2	2.1	2.1	2.1	2.1		
1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	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		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

'228186
 ISS-AF-600-LED-E1-SL3-8030-ULG

REPORT NUMBER: P228186
 CATALOG NUMBER: ISS-AF-600

TION (continued):

CANDELA DISTRIBUTION (con

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	785.3	785.3
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	713.7	716.9
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	634.8	635.8
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	539.0	536.9
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	411.6	406.3
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	265.3	257.9
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	160.0	157.9
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	128.4	128.4
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	114.7	114.7
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	106.3	106.3
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	100.0	101.1
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	94.7	94.7
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	88.4	88.4
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	77.9	77.9
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	69.5	68.4
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	62.1	63.2
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	56.8	57.9
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	54.7	54.7
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	52.6	52.6
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	52.6	52.6
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	51.6	52.6
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	50.5	50.5
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	47.4	48.4
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	44.2	45.3
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	41.1	41.1
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	36.8	36.8
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	33.7	33.7
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	29.5	29.5
										70°	26.3	26.3
										72.5°	23.2	23.2
										75°	20.0	20.0
										77.5°	16.8	15.8
										80°	12.6	12.6
										82.5°	7.4	7.4
										85°	2.1	2.1
										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
										110°	102.0	101.0



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CANDELA DISTRIBUTION (continued):

	175°	180°
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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Scaled Data Report

