

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: P228736

Luminaire Tested: **ISS-AF-800-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-800-LED-E1-RW-8030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3982 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

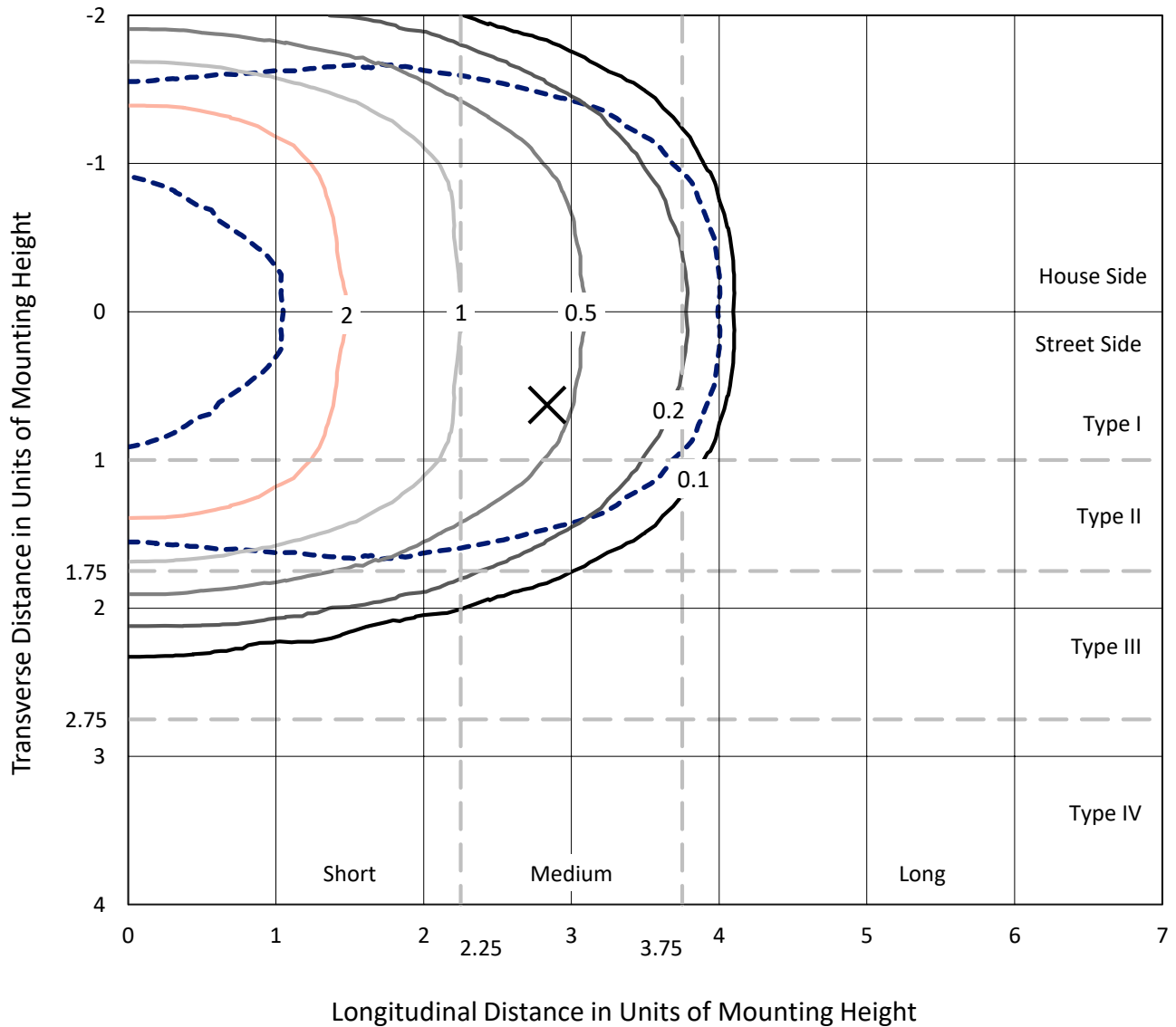
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P228736
 CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

Iso-Footcandle Lines of Horizontal Illumination

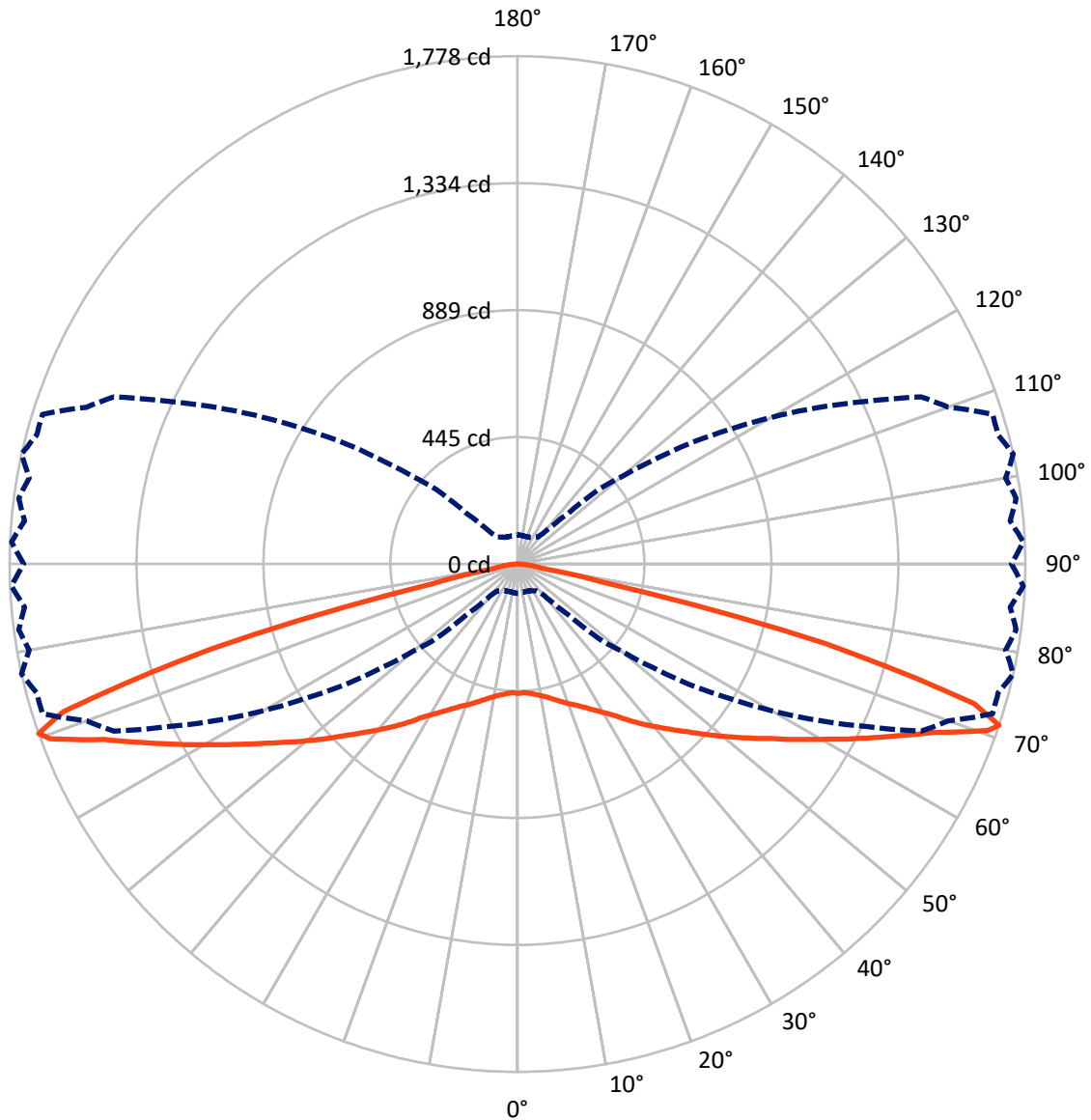
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P228736
CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P228736

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.0	0.0	1991.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1991.0	0.0	1991.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3982.0	0.0	3982.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.1
10°-20°	136.9	3.4
20°-30°	256.2	6.4
30°-40°	445.8	11.2
40°-50°	727.4	18.3
50°-60°	1003.9	25.2
60°-70°	952.3	23.9
70°-80°	392.0	9.8
80°-90°	23.7	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3982.0	100.0
0°-180°	3982.0	100.0



REPORT NUMBER: P228736

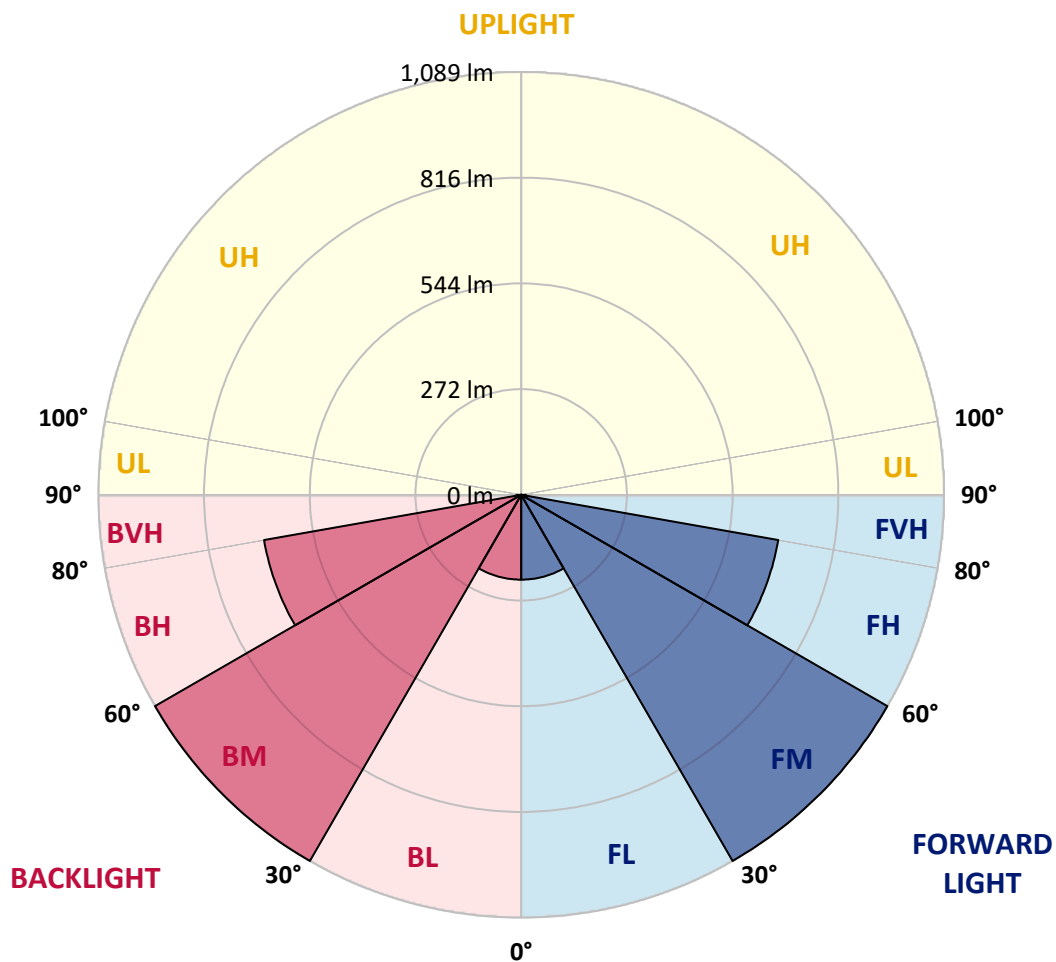
CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	218.4	5.5			
FM	(30°-60°)	1088.6	27.3			
FH	(60°-80°)	672.1	16.9			G1/1800
FVH	(80°-90°)	11.8	0.3			G1/100
BL	(0°-30°)	218.4	5.5	B1/500		
BM	(30°-60°)	1088.6	27.3	B2/2500		
BH	(60°-80°)	672.1	16.9	B2/1000		G2/1000
BVH	(80°-90°)	11.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P228736

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4
2.5°	452.1	450.8	452.1	452.1	453.4	453.4	453.4	453.4	452.1	454.7	454.7
5°	452.1	452.1	453.4	453.4	456.1	458.7	454.7	456.1	457.4	456.1	458.7
7.5°	452.1	452.1	452.1	454.7	458.7	461.3	458.7	460.0	462.6	462.6	465.3
10°	448.1	446.8	449.5	454.7	461.3	465.3	464.0	469.2	467.9	469.2	471.9
12.5°	441.6	441.6	446.8	454.7	466.6	469.2	470.6	473.2	477.1	475.8	479.8
15°	442.9	444.2	449.5	460.0	474.5	477.1	478.5	478.5	485.1	482.4	490.3
17.5°	452.1	453.4	458.7	469.2	486.4	486.4	487.7	490.3	499.6	494.3	504.8
20°	466.6	467.9	473.2	485.1	500.9	499.6	502.2	504.8	516.7	511.4	522.0
22.5°	483.7	486.4	493.0	506.1	523.3	515.4	520.6	525.9	537.8	528.6	543.1
25°	507.5	511.4	518.0	532.5	551.0	541.7	547.0	551.0	564.1	551.0	565.5
27.5°	541.7	544.4	549.6	565.5	581.3	574.7	577.3	580.0	595.8	581.3	597.1
30°	582.6	586.5	591.8	606.3	622.1	611.6	616.9	619.5	632.7	618.2	631.4
32.5°	634.0	638.0	644.5	657.7	670.9	655.1	656.4	660.4	673.5	659.0	673.5
35°	694.6	697.3	706.5	722.3	731.5	706.5	707.8	707.8	724.9	705.2	721.0
37.5°	757.9	760.5	771.1	786.9	797.4	769.8	769.8	771.1	786.9	764.5	779.0
40°	823.8	831.7	843.6	859.4	867.3	835.7	838.3	837.0	855.4	829.1	843.6
42.5°	889.7	896.3	913.4	931.9	941.1	909.5	910.8	906.8	925.3	897.6	909.5
45°	946.4	951.7	972.7	999.1	1013.6	980.7	980.7	980.7	999.1	964.8	979.3
47.5°	992.5	996.5	1018.9	1057.1	1080.8	1047.9	1050.5	1045.2	1072.9	1030.7	1050.5
50°	1025.5	1026.8	1055.8	1099.3	1140.1	1109.8	1113.8	1116.4	1142.8	1105.9	1123.0
52.5°	1036.0	1038.7	1071.6	1124.3	1183.6	1163.9	1178.4	1183.6	1207.4	1167.8	1191.5
55°	999.1	1005.7	1055.8	1133.6	1214.0	1207.4	1224.5	1235.0	1265.4	1232.4	1257.5
57.5°	875.2	883.1	953.0	1080.8	1220.5	1231.1	1254.8	1272.0	1315.4	1295.7	1323.4
60°	698.6	705.2	776.4	930.6	1137.5	1202.1	1256.1	1304.9	1349.7	1353.7	1389.3
62.5°	479.8	489.0	557.5	705.2	956.9	1042.6	1120.4	1200.8	1275.9	1366.9	1413.0
65°	234.6	239.9	297.9	440.2	702.5	811.9	902.9	1016.2	1086.1	1216.6	1291.7
67.5°	129.2	129.2	138.4	183.2	375.7	483.7	581.3	723.6	794.8	955.6	1051.8
70°	108.1	108.1	105.4	112.0	142.4	168.7	218.8	300.5	399.4	561.5	648.5
71°	102.8	101.5	100.2	102.8	114.7	119.9	141.0	184.5	250.4	387.5	473.2
72.5°	96.2	93.6	89.6	90.9	97.5	97.5	101.5	108.1	133.1	181.9	243.8
75°	83.0	80.4	76.4	76.4	77.8	79.1	80.4	83.0	84.4	87.0	97.5
77.5°	68.5	65.9	61.9	61.9	60.6	61.9	64.6	65.9	63.3	68.5	69.9
80°	52.7	48.8	47.5	47.5	46.1	44.8	44.8	44.8	46.1	48.8	50.1
82.5°	33.0	30.3	31.6	30.3	29.0	29.0	29.0	29.0	30.3	30.3	33.0
85°	15.8	15.8	17.1	15.8	13.2	13.2	11.9	10.5	11.9	10.5	13.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228736

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4
2.5°	450.8	453.4	452.1	453.4	450.8	453.4	449.5	453.4	452.1	453.4	450.8
5°	454.7	458.7	454.7	460.0	454.7	460.0	454.7	460.0	456.1	460.0	454.7
7.5°	458.7	466.6	461.3	467.9	461.3	469.2	461.3	469.2	464.0	470.6	461.3
10°	466.6	475.8	467.9	475.8	467.9	477.1	467.9	478.5	470.6	481.1	469.2
12.5°	473.2	483.7	475.8	486.4	474.5	489.0	477.1	493.0	479.8	495.6	479.8
15°	482.4	495.6	487.7	499.6	487.7	503.5	489.0	507.5	493.0	510.1	493.0
17.5°	495.6	510.1	499.6	514.1	500.9	518.0	502.2	522.0	507.5	524.6	507.5
20°	514.1	525.9	515.4	531.2	516.7	532.5	519.3	535.1	523.3	539.1	523.3
22.5°	535.1	545.7	537.8	547.0	533.8	547.0	533.8	547.0	537.8	551.0	537.8
25°	558.9	566.8	557.5	566.8	554.9	565.5	553.6	564.1	554.9	566.8	557.5
27.5°	590.5	594.5	583.9	591.8	577.3	587.9	574.7	585.2	576.0	586.5	580.0
30°	624.8	628.7	618.2	623.5	607.6	614.2	599.7	609.0	601.0	609.0	605.0
32.5°	663.0	668.3	656.4	659.0	645.9	647.2	635.3	639.3	632.7	635.3	634.0
35°	706.5	713.1	699.9	703.9	689.4	689.4	678.8	677.5	674.9	672.2	672.2
37.5°	761.9	764.5	753.9	753.9	736.8	736.8	723.6	723.6	718.4	713.1	710.4
40°	822.5	823.8	806.7	805.3	788.2	788.2	773.7	769.8	760.5	753.9	750.0
42.5°	887.1	885.8	860.7	863.3	838.3	839.6	821.2	817.2	808.0	800.1	792.2
45°	953.0	947.7	922.7	921.3	892.3	893.7	871.3	868.6	855.4	847.5	838.3
47.5°	1020.2	1017.6	989.9	983.3	953.0	951.7	922.7	922.7	909.5	901.6	892.3
50°	1090.1	1088.7	1057.1	1053.1	1021.5	1016.2	982.0	982.0	966.2	963.5	950.3
52.5°	1166.5	1161.2	1127.0	1125.6	1095.3	1091.4	1054.5	1051.8	1028.1	1026.8	1012.3
55°	1241.6	1232.4	1210.0	1199.5	1169.1	1167.8	1134.9	1128.3	1098.0	1098.0	1079.5
57.5°	1310.2	1302.3	1283.8	1274.6	1245.6	1241.6	1206.0	1206.0	1179.7	1178.4	1158.6
60°	1381.4	1384.0	1364.2	1360.3	1332.6	1331.3	1295.7	1295.7	1269.3	1268.0	1245.6
62.5°	1442.0	1468.3	1460.4	1463.1	1439.3	1435.4	1399.8	1397.2	1366.9	1362.9	1344.4
65°	1382.7	1474.9	1534.3	1573.8	1571.2	1569.8	1535.6	1530.3	1492.1	1481.5	1451.2
67.5°	1161.2	1281.2	1389.3	1507.9	1594.9	1660.8	1680.6	1672.6	1639.7	1609.4	1572.5
70°	777.7	916.1	1053.1	1200.8	1349.7	1494.7	1643.7	1708.2	1776.8	1753.1	1746.5
71°	591.8	734.2	871.3	1026.8	1185.0	1345.8	1529.0	1605.4	1743.8	1742.5	1778.1
72.5°	333.5	460.0	606.3	742.1	891.0	1057.1	1245.6	1329.9	1529.0	1568.5	1671.3
75°	106.8	146.3	193.8	305.8	398.1	549.6	689.4	773.7	905.5	971.4	1115.1
77.5°	71.2	79.1	81.7	94.9	106.8	151.6	205.6	251.8	276.8	290.0	304.5
80°	51.4	55.4	58.0	64.6	65.9	73.8	73.8	81.7	80.4	85.7	81.7
82.5°	33.0	36.9	38.2	40.9	42.2	47.5	50.1	55.4	55.4	58.0	56.7
85°	15.8	18.5	18.5	21.1	21.1	25.0	25.0	29.0	29.0	33.0	31.6
87.5°	1.3	1.3	1.3	2.6	2.6	2.6	4.0	5.3	5.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P228736

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	80°	82.5°	85°	87.5°	90°
0°	453.4	453.4	453.4	453.4	453.4
2.5°	454.7	453.4	454.7	452.1	454.7
5°	461.3	456.1	462.6	456.1	462.6
7.5°	471.9	465.3	473.2	462.6	471.9
10°	481.1	471.9	482.4	471.9	481.1
12.5°	496.9	482.4	499.6	482.4	499.6
15°	512.7	495.6	516.7	498.2	515.4
17.5°	527.2	511.4	531.2	512.7	529.9
20°	540.4	525.9	543.1	524.6	543.1
22.5°	553.6	544.4	557.5	544.4	557.5
25°	570.7	564.1	573.4	564.1	573.4
27.5°	590.5	587.9	593.1	586.5	594.5
30°	612.9	614.2	615.5	614.2	616.9
32.5°	640.6	647.2	644.5	644.5	644.5
35°	678.8	690.7	682.8	685.4	684.1
37.5°	714.4	731.5	721.0	724.9	722.3
40°	753.9	765.8	763.2	763.2	760.5
42.5°	797.4	811.9	808.0	809.3	806.7
45°	844.9	858.1	852.8	851.5	852.8
47.5°	898.9	913.4	906.8	905.5	906.8
50°	955.6	972.7	967.5	964.8	967.5
52.5°	1017.6	1038.7	1036.0	1033.4	1037.3
55°	1090.1	1109.8	1107.2	1109.8	1111.1
57.5°	1162.6	1185.0	1179.7	1186.3	1188.9
60°	1253.5	1266.7	1268.0	1269.3	1270.6
62.5°	1345.8	1351.0	1355.0	1358.9	1360.3
65°	1452.5	1453.8	1456.5	1452.5	1456.5
67.5°	1555.3	1546.1	1544.8	1548.7	1551.4
70°	1714.8	1714.8	1701.6	1720.1	1704.3
71°	1735.9	1761.0	1732.0	1772.8	1729.3
72.5°	1633.1	1679.2	1646.3	1683.2	1639.7
75°	1136.2	1243.0	1241.6	1294.4	1252.2
77.5°	315.0	295.3	315.0	271.5	259.7
80°	85.7	77.8	84.4	71.2	80.4
82.5°	56.7	48.8	47.5	38.2	40.9
85°	33.0	25.0	25.0	19.8	21.1
87.5°	5.3	1.3	5.3	2.6	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)