

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: P271521

Luminaire Tested: **ISS-AF-800-LED-E1-RW-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271521  
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-7027  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

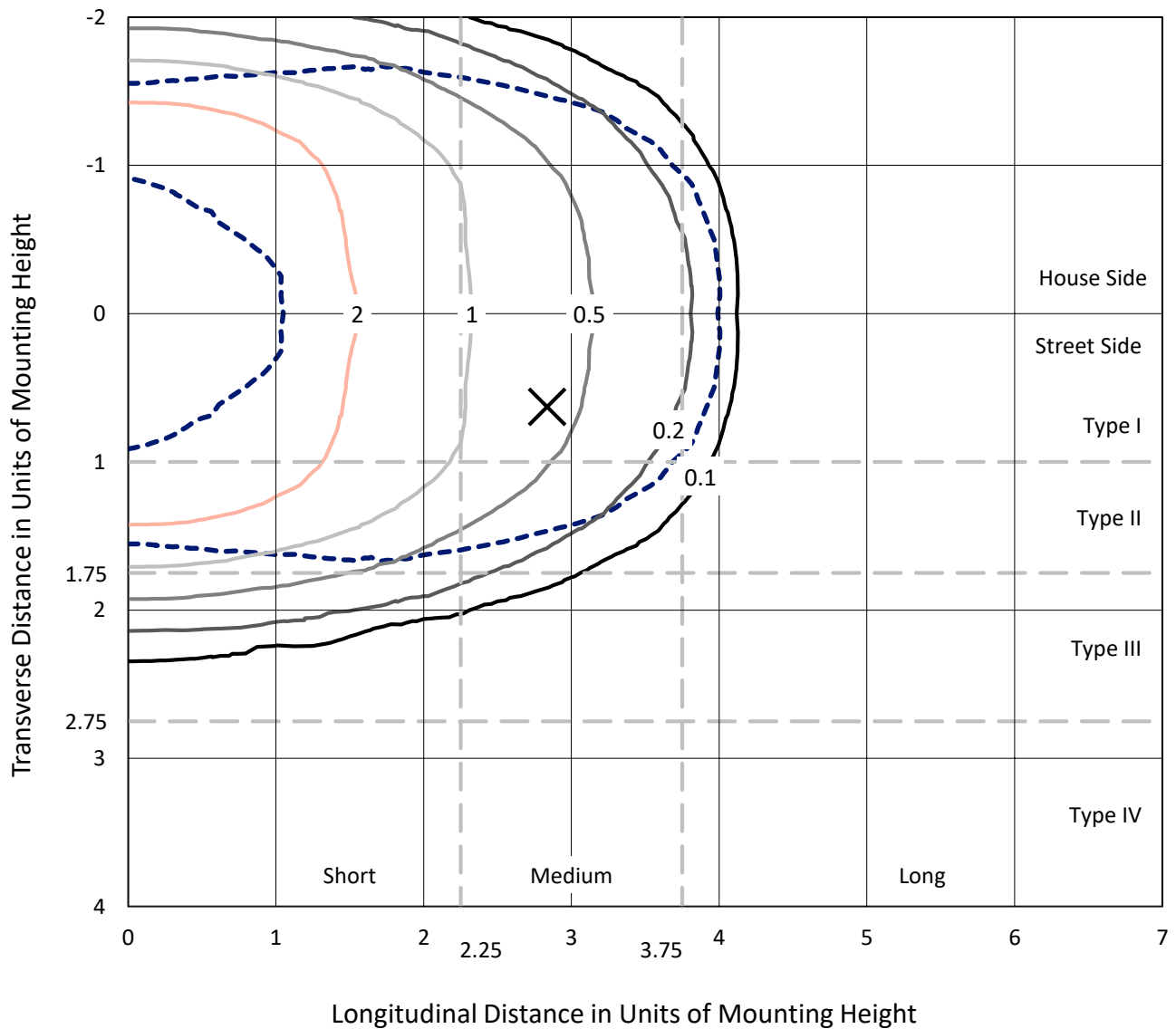
Lumens per Lamp: N/A  
Luminaire Lumens: 4239 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (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: P271521  
 CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

### Iso-Footcandle Lines of Horizontal Illumination

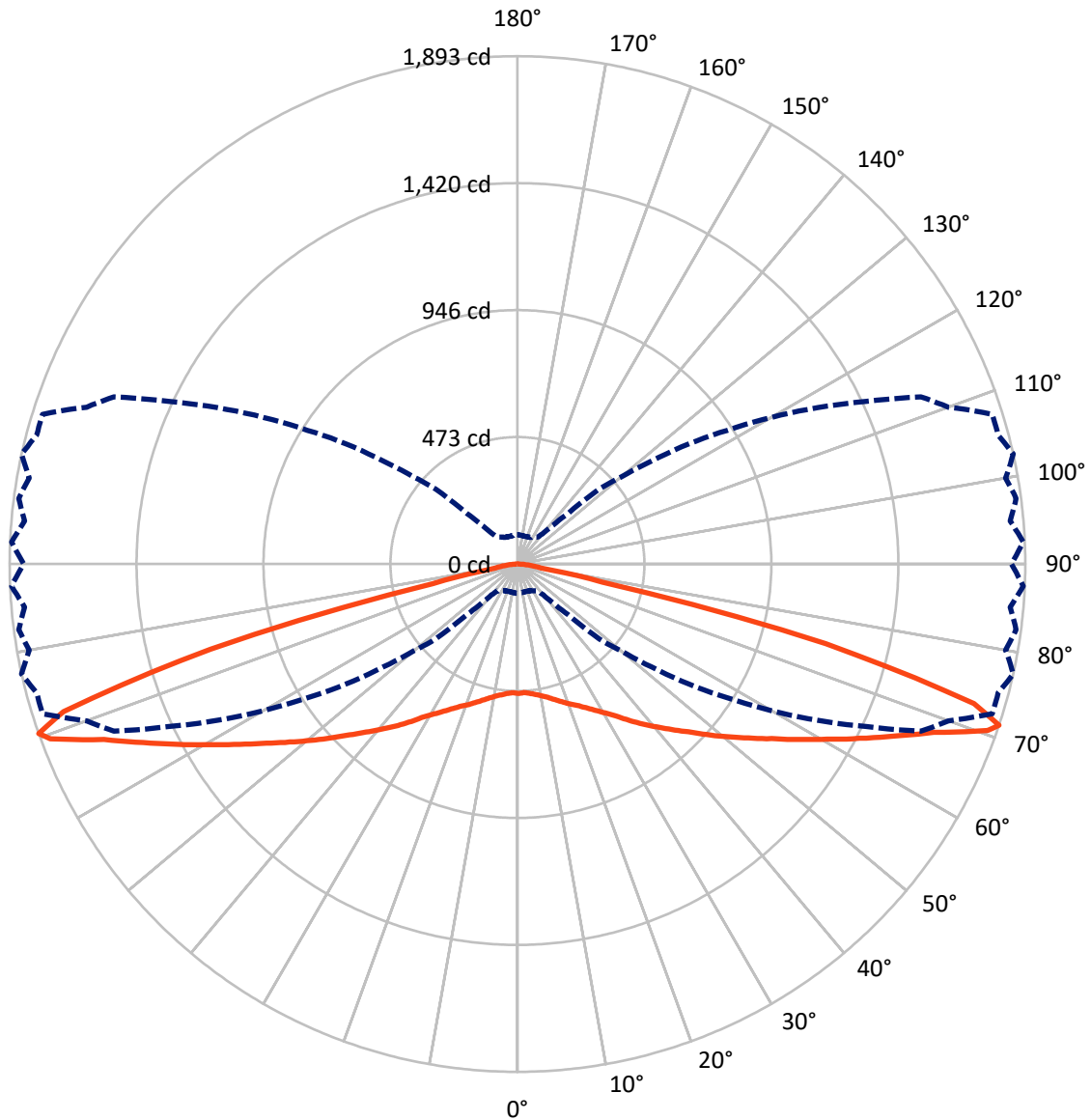
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P271521  
CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P271521

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2119.5	0.0	2119.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2119.5	0.0	2119.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4239.0	0.0	4239.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.6	1.1
10°-20°	145.7	3.4
20°-30°	272.7	6.4
30°-40°	474.6	11.2
40°-50°	774.4	18.3
50°-60°	1068.7	25.2
60°-70°	1013.7	23.9
70°-80°	417.3	9.8
80°-90°	25.2	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°	4239.0	100.0
0°-180°	4239.0	100.0



REPORT NUMBER: P271521

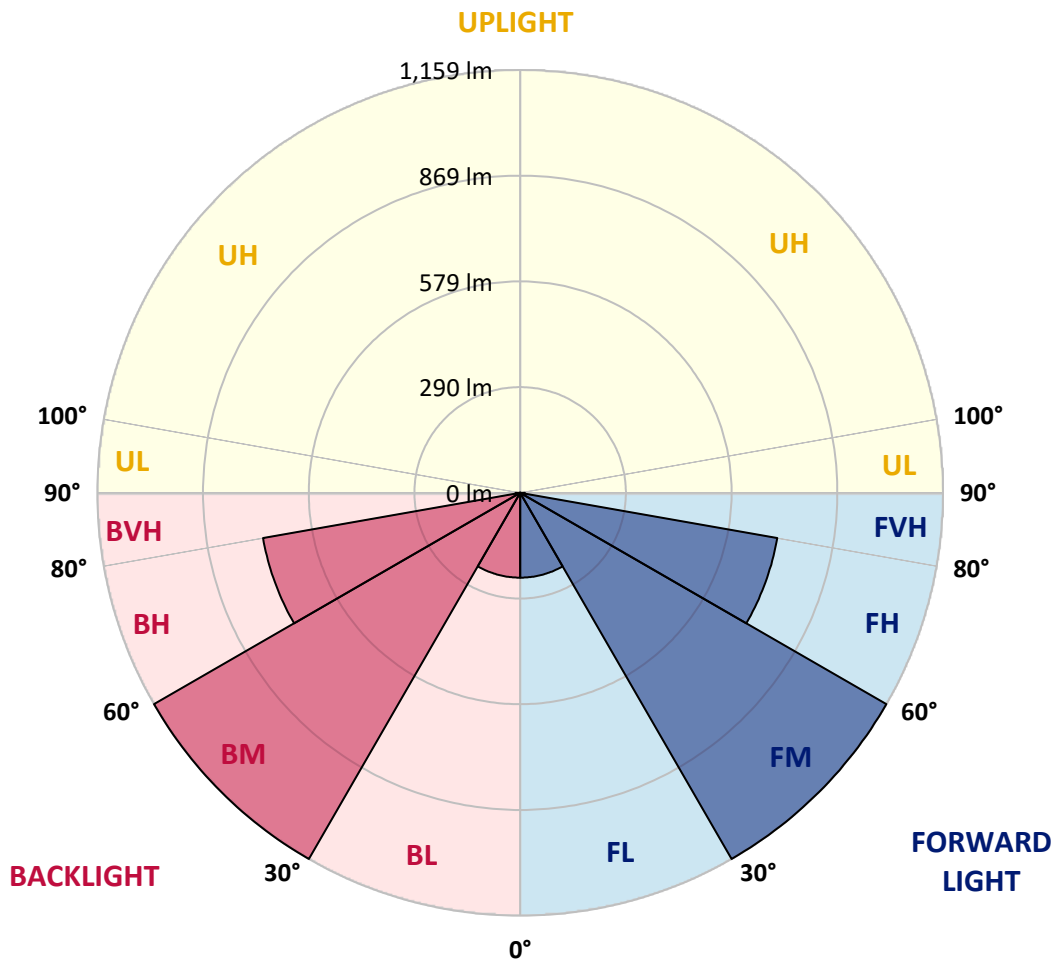
CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.5	5.5			
FM	(30°-60°)	1158.9	27.3			
FH	(60°-80°)	715.5	16.9			G1/1800
FVH	(80°-90°)	12.6	0.3			G1/100
BL	(0°-30°)	232.5	5.5	B1/500		
BM	(30°-60°)	1158.9	27.3	B2/2500		
BH	(60°-80°)	715.5	16.9	B2/1000		G2/1000
BVH	(80°-90°)	12.6	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: P271521

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
2.5°	481.3	479.9	481.3	481.3	482.7	482.7	482.7	482.7	481.3	484.1	484.1
5°	481.3	481.3	482.7	482.7	485.5	488.3	484.1	485.5	486.9	485.5	488.3
7.5°	481.3	481.3	481.3	484.1	488.3	491.1	488.3	489.7	492.5	492.5	495.3
10°	477.1	475.7	478.4	484.1	491.1	495.3	493.9	499.5	498.1	499.5	502.3
12.5°	470.0	470.0	475.7	484.1	496.8	499.5	501.0	503.7	507.9	506.6	510.8
15°	471.5	472.9	478.4	489.7	505.2	507.9	509.4	509.4	516.3	513.5	521.9
17.5°	481.3	482.7	488.3	499.5	517.7	517.7	519.2	521.9	531.8	526.1	537.5
20°	496.8	498.1	503.7	516.3	533.2	531.8	534.6	537.5	550.0	544.5	555.6
22.5°	515.0	517.7	524.8	538.8	557.1	548.7	554.3	559.8	572.5	562.7	578.1
25°	540.2	544.5	551.4	566.9	586.5	576.7	582.3	586.5	600.6	586.5	602.0
27.5°	576.7	579.5	585.2	602.0	618.8	611.7	614.6	617.3	634.2	618.8	635.6
30°	620.2	624.4	630.0	645.4	662.3	651.1	656.8	659.4	673.5	658.1	672.1
32.5°	675.0	679.1	686.1	700.2	714.2	697.4	698.8	702.9	716.9	701.6	716.9
35°	739.5	742.3	752.2	768.9	778.7	752.2	753.5	753.5	771.7	750.7	767.5
37.5°	806.8	809.6	820.8	837.7	848.9	819.4	819.4	820.8	837.7	813.9	829.2
40°	876.9	885.4	898.0	914.8	923.3	889.6	892.4	891.0	910.6	882.6	898.0
42.5°	947.2	954.2	972.3	992.1	1001.9	968.1	969.6	965.4	985.0	955.5	968.1
45°	1007.4	1013.1	1035.6	1063.6	1079.0	1043.9	1043.9	1043.9	1063.6	1027.1	1042.6
47.5°	1056.6	1060.8	1084.6	1125.4	1150.5	1115.5	1118.3	1112.7	1142.1	1097.3	1118.3
50°	1091.7	1093.1	1123.9	1170.2	1213.7	1181.5	1185.7	1188.5	1216.6	1177.3	1195.5
52.5°	1102.8	1105.7	1140.8	1196.9	1260.1	1239.0	1254.4	1260.1	1285.3	1243.3	1268.5
55°	1063.6	1070.6	1123.9	1206.7	1292.3	1285.3	1303.5	1314.8	1347.0	1312.0	1338.7
57.5°	931.7	940.2	1014.5	1150.5	1299.3	1310.5	1335.8	1354.0	1400.4	1379.3	1408.8
60°	743.7	750.7	826.5	990.7	1210.9	1279.6	1337.1	1389.0	1436.7	1441.0	1478.9
62.5°	510.8	520.6	593.5	750.7	1018.7	1109.9	1192.7	1278.3	1358.2	1455.1	1504.2
65°	249.8	255.4	317.1	468.6	747.9	864.3	961.2	1081.8	1156.2	1295.2	1375.0
67.5°	137.5	137.5	147.3	195.0	399.8	515.0	618.8	770.4	846.1	1017.3	1119.6
70°	115.1	115.1	112.3	119.3	151.5	179.6	232.9	320.0	425.2	597.7	690.3
71°	109.4	108.1	106.7	109.4	122.1	127.6	150.2	196.4	266.5	412.5	503.7
72.5°	102.5	99.6	95.4	96.7	103.8	103.8	108.1	115.1	141.8	193.7	259.6
75°	88.4	85.6	81.4	81.4	82.7	84.2	85.6	88.4	89.8	92.6	103.8
77.5°	72.9	70.2	65.9	65.9	64.6	65.9	68.8	70.2	67.4	72.9	74.4
80°	56.1	51.9	50.6	50.6	49.0	47.7	47.7	47.7	49.0	51.9	53.3
82.5°	35.0	32.2	33.7	32.2	30.9	30.9	30.9	30.9	32.2	32.2	35.0
85°	16.9	16.9	18.2	16.9	14.0	14.0	12.7	11.2	12.7	11.2	14.0
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: P271521

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°
0°	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7	482.7
2.5°	479.9	482.7	481.3	482.7	479.9	482.7	478.4	482.7	481.3	482.7	479.9
5°	484.1	488.3	484.1	489.7	484.1	489.7	484.1	489.7	485.5	489.7	484.1
7.5°	488.3	496.8	491.1	498.1	491.1	499.5	491.1	499.5	493.9	501.0	491.1
10°	496.8	506.6	498.1	506.6	498.1	507.9	498.1	509.4	501.0	512.1	499.5
12.5°	503.7	515.0	506.6	517.7	505.2	520.6	507.9	524.8	510.8	527.6	510.8
15°	513.5	527.6	519.2	531.8	519.2	536.0	520.6	540.2	524.8	543.0	524.8
17.5°	527.6	543.0	531.8	547.2	533.2	551.4	534.6	555.6	540.2	558.5	540.2
20°	547.2	559.8	548.7	565.4	550.0	566.9	552.9	569.6	557.1	573.8	557.1
22.5°	569.6	580.9	572.5	582.3	568.3	582.3	568.3	582.3	572.5	586.5	572.5
25°	594.9	603.3	593.5	603.3	590.7	602.0	589.3	600.6	590.7	603.3	593.5
27.5°	628.6	632.9	621.5	630.0	614.6	625.8	611.7	623.1	613.3	624.4	617.3
30°	665.0	669.2	658.1	663.7	646.9	653.9	638.4	648.3	639.9	648.3	644.1
32.5°	705.8	711.4	698.8	701.6	687.6	689.0	676.3	680.6	673.5	676.3	675.0
35°	752.2	759.1	745.1	749.3	733.8	733.8	722.7	721.2	718.5	715.6	715.6
37.5°	811.0	813.9	802.6	802.6	784.4	784.4	770.4	770.4	764.7	759.1	756.4
40°	875.6	876.9	858.7	857.3	839.1	839.1	823.7	819.4	809.6	802.6	798.4
42.5°	944.3	943.0	916.3	919.1	892.4	893.8	874.2	870.0	860.1	851.8	843.3
45°	1014.5	1008.9	982.2	980.8	950.0	951.3	927.5	924.6	910.6	902.3	892.4
47.5°	1086.1	1083.3	1053.8	1046.7	1014.5	1013.1	982.2	982.2	968.1	959.7	950.0
50°	1160.4	1159.0	1125.4	1121.2	1087.5	1081.8	1045.4	1045.4	1028.5	1025.8	1011.7
52.5°	1241.7	1236.2	1199.7	1198.2	1166.0	1161.8	1122.5	1119.6	1094.5	1093.1	1077.7
55°	1321.8	1312.0	1288.1	1276.9	1244.6	1243.3	1208.1	1201.1	1168.9	1168.9	1149.2
57.5°	1394.8	1386.4	1366.7	1356.9	1326.0	1321.8	1283.9	1283.9	1255.8	1254.4	1233.4
60°	1470.5	1473.3	1452.3	1448.1	1418.6	1417.2	1379.3	1379.3	1351.2	1349.8	1326.0
62.5°	1535.0	1563.1	1554.7	1557.5	1532.3	1528.1	1490.2	1487.3	1455.1	1450.9	1431.2
65°	1472.0	1570.1	1633.3	1675.4	1672.6	1671.2	1634.6	1629.1	1588.3	1577.2	1544.8
67.5°	1236.2	1363.9	1478.9	1605.2	1697.9	1768.0	1789.1	1780.6	1745.6	1713.2	1674.0
70°	827.9	975.2	1121.2	1278.3	1436.7	1591.2	1749.8	1818.5	1891.4	1866.2	1859.2
71°	630.0	781.5	927.5	1093.1	1261.4	1432.7	1627.7	1709.0	1856.3	1855.0	1892.9
72.5°	355.0	489.7	645.4	790.0	948.5	1125.4	1326.0	1415.8	1627.7	1669.8	1779.3
75°	113.6	155.8	206.3	325.5	423.7	585.2	733.8	823.7	964.0	1034.1	1187.1
77.5°	75.7	84.2	87.0	101.0	113.6	161.3	218.8	268.1	294.6	308.7	324.1
80°	54.8	58.9	61.7	68.8	70.2	78.6	78.6	87.0	85.6	91.2	87.0
82.5°	35.0	39.3	40.7	43.5	44.8	50.6	53.3	58.9	58.9	61.7	60.4
85°	16.9	19.7	19.7	22.5	22.5	26.7	26.7	30.9	30.9	35.0	33.7
87.5°	1.3	1.3	1.3	2.9	2.9	2.9	4.2	5.6	5.6	5.6	5.6
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: P271521

CATALOG NUMBER: ISS-AF-800-LED-E1-RW-7027

**CANDELA DISTRIBUTION (continued):**

	80°	82.5°	85°	87.5°	90°
0°	482.7	482.7	482.7	482.7	482.7
2.5°	484.1	482.7	484.1	481.3	484.1
5°	491.1	485.5	492.5	485.5	492.5
7.5°	502.3	495.3	503.7	492.5	502.3
10°	512.1	502.3	513.5	502.3	512.1
12.5°	529.0	513.5	531.8	513.5	531.8
15°	545.8	527.6	550.0	530.4	548.7
17.5°	561.4	544.5	565.4	545.8	564.0
20°	575.4	559.8	578.1	558.5	578.1
22.5°	589.3	579.5	593.5	579.5	593.5
25°	607.5	600.6	610.4	600.6	610.4
27.5°	628.6	625.8	631.4	624.4	632.9
30°	652.5	653.9	655.2	653.9	656.8
32.5°	681.9	689.0	686.1	686.1	686.1
35°	722.7	735.3	726.9	729.6	728.3
37.5°	760.5	778.7	767.5	771.7	768.9
40°	802.6	815.2	812.4	812.4	809.6
42.5°	848.9	864.3	860.1	861.6	858.7
45°	899.5	913.5	907.8	906.4	907.8
47.5°	957.0	972.3	965.4	964.0	965.4
50°	1017.3	1035.6	1030.0	1027.1	1030.0
52.5°	1083.3	1105.7	1102.8	1100.1	1104.3
55°	1160.4	1181.5	1178.7	1181.5	1182.9
57.5°	1237.5	1261.4	1255.8	1262.8	1265.6
60°	1334.4	1348.4	1349.8	1351.2	1352.7
62.5°	1432.7	1438.3	1442.5	1446.7	1448.1
65°	1546.3	1547.7	1550.5	1546.3	1550.5
67.5°	1655.8	1646.0	1644.4	1648.7	1651.5
70°	1825.5	1825.5	1811.5	1831.1	1814.3
71°	1847.9	1874.7	1843.7	1887.2	1841.0
72.5°	1738.5	1787.6	1752.5	1791.8	1745.6
75°	1209.5	1323.1	1321.8	1377.9	1333.1
77.5°	335.3	314.2	335.3	289.1	276.4
80°	91.2	82.7	89.8	75.7	85.6
82.5°	60.4	51.9	50.6	40.7	43.5
85°	35.0	26.7	26.7	21.0	22.5
87.5°	5.6	1.3	5.6	2.9	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)