

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: P228215

Luminaire Tested: **ISS-AF-800-LED-E1-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)
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-SL3
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4656.5 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

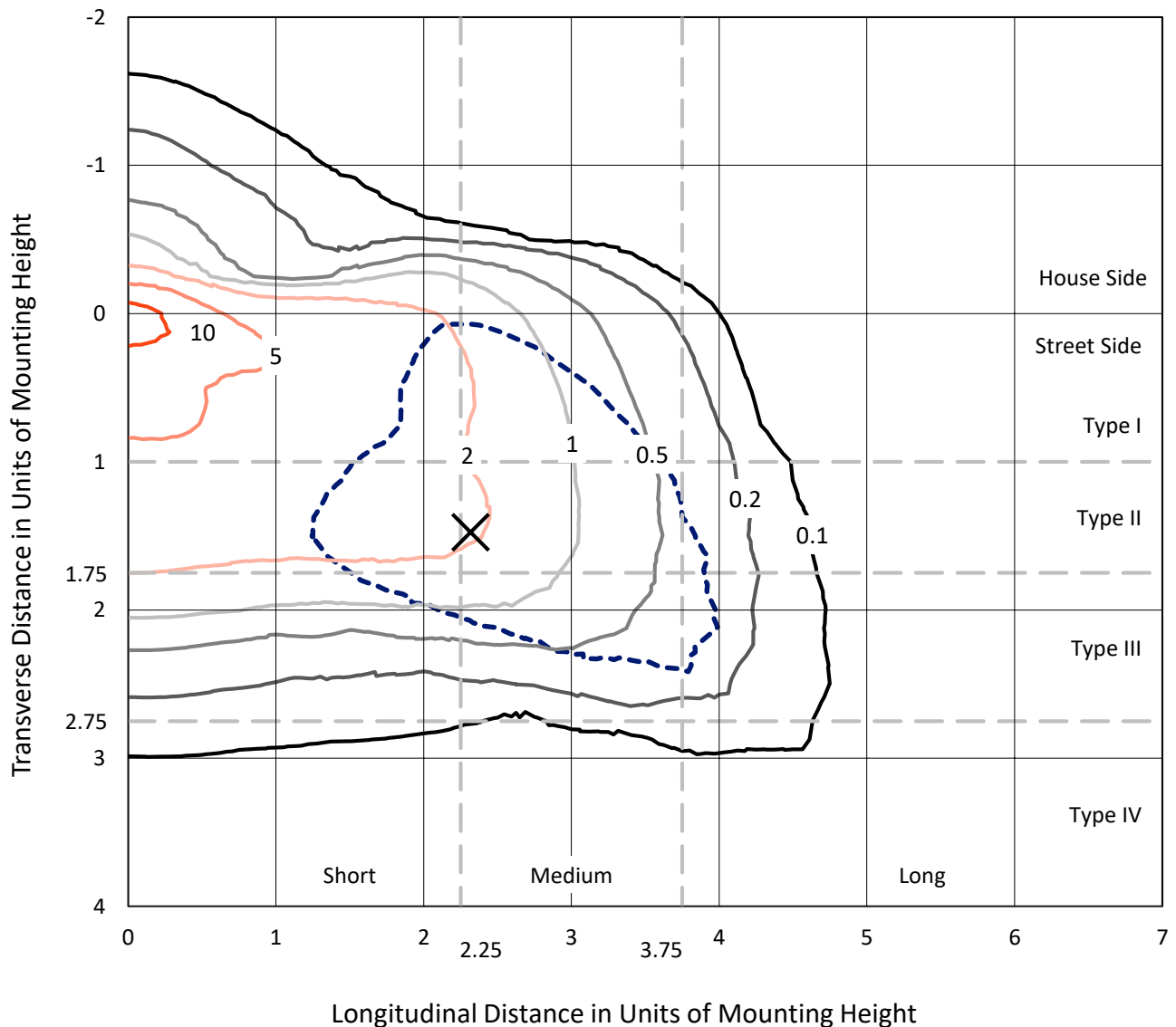
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

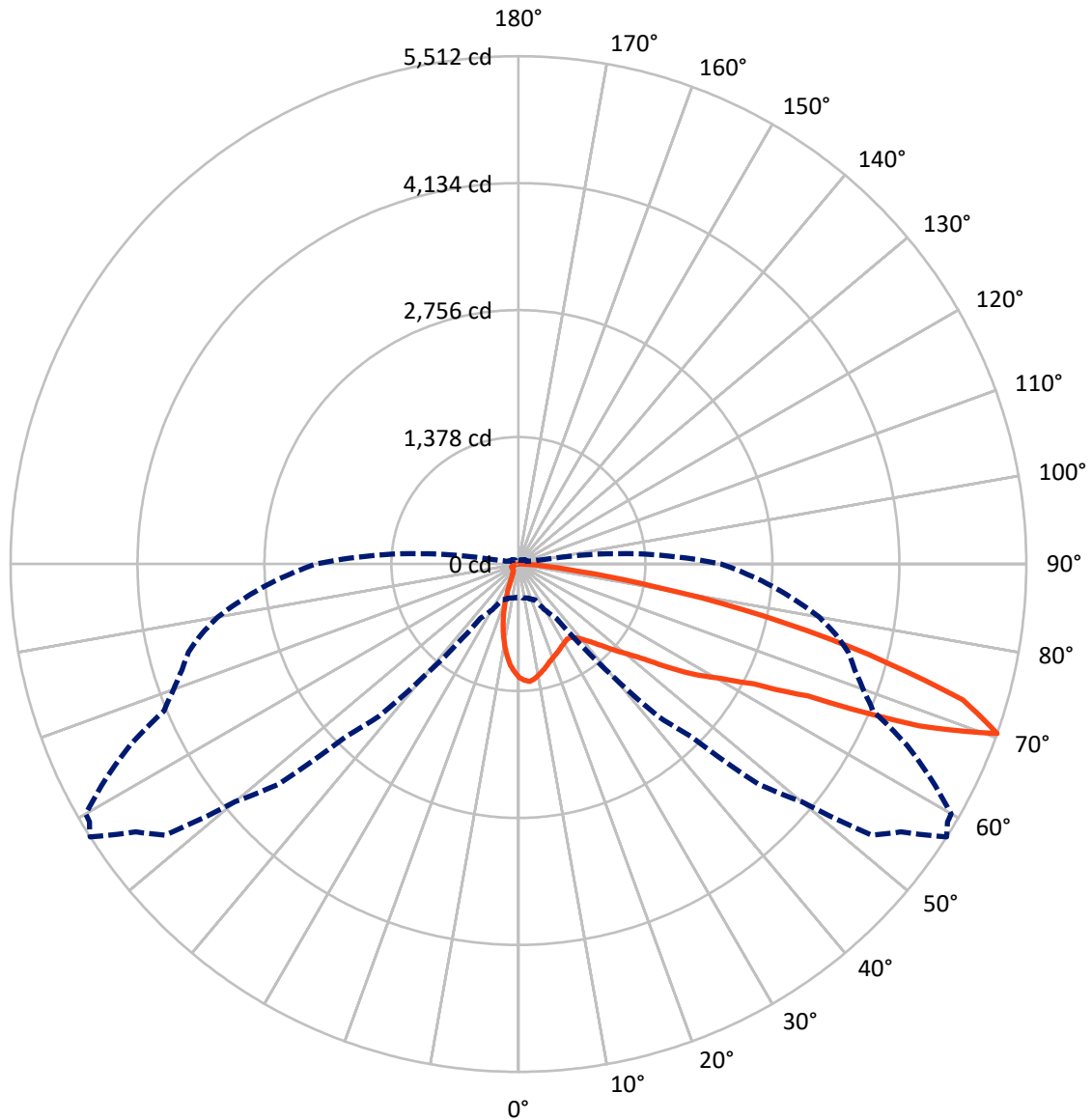
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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	576.2	0.0	576.2
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	4080.2	0.0	4080.2
	% Fixture	87.6	0.0	87.6
Total	Lumens	4656.5	0.0	4656.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	2.3
10°-20°	231.0	5.0
20°-30°	290.4	6.2
30°-40°	379.5	8.1
40°-50°	569.3	12.2
50°-60°	900.0	19.3
60°-70°	1297.3	27.9
70°-80°	802.9	17.2
80°-90°	79.6	1.7
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°	4656.5	100.0
0°-180°	4656.5	100.0



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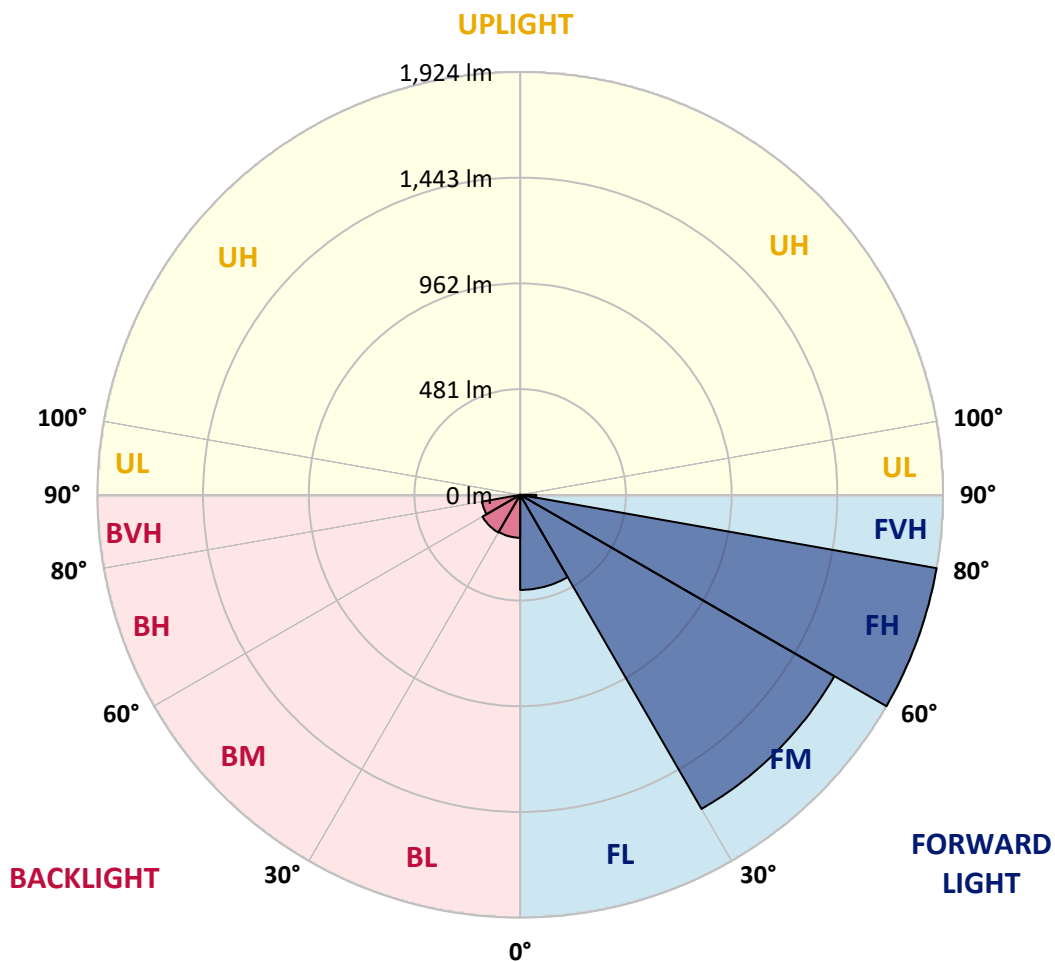
CATALOG NUMBER: ISS-AF-800-LED-E1-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.5	9.3			
FM (30°-60°)	1650.6	35.4			
FH (60°-80°)	1923.8	41.3			G2/5000
FVH (80°-90°)	73.3	1.6			G1/100
BL (0°-30°)	195.3	4.2	B1/500		
BM (30°-60°)	198.2	4.3	B0/220		
BH (60°-80°)	176.4	3.8	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

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°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1293.6	1292.0	1288.6	1282.1	1278.8	1282.1	1278.8	1273.8	1267.2	1272.1	1268.9
5°	1290.4	1293.6	1287.0	1282.1	1290.4	1293.6	1287.0	1287.0	1280.4	1287.0	1283.7
7.5°	1225.9	1227.5	1229.2	1227.5	1249.0	1249.0	1245.7	1249.0	1250.7	1253.9	1255.6
10°	1144.9	1146.6	1149.9	1154.8	1181.3	1184.6	1186.2	1189.5	1194.5	1197.8	1207.7
12.5°	1064.0	1067.2	1073.9	1090.4	1118.5	1121.8	1126.8	1131.7	1140.0	1144.9	1163.1
15°	996.3	997.9	1004.5	1022.6	1064.0	1072.3	1075.5	1082.2	1098.6	1098.6	1118.5
17.5°	933.4	936.7	941.7	963.2	1004.5	1017.7	1027.7	1030.9	1052.4	1057.3	1080.5
20°	885.6	887.2	888.8	908.7	946.6	966.5	974.8	988.0	1004.5	1017.7	1037.6
22.5°	859.1	860.7	857.4	865.7	898.8	923.5	933.4	946.6	953.3	976.4	988.0
25°	860.7	862.4	854.2	849.2	865.7	892.1	900.4	913.6	910.3	943.4	943.4
27.5°	877.3	880.6	872.4	857.4	859.1	880.6	885.6	890.5	880.6	913.6	907.1
30°	910.3	913.6	903.7	892.1	874.0	887.2	887.2	887.2	869.0	897.1	885.6
32.5°	945.0	948.3	945.0	936.7	913.6	917.0	910.3	907.1	882.2	905.4	887.2
35°	996.3	997.9	999.5	999.5	966.5	973.1	954.9	945.0	921.9	940.1	915.2
37.5°	1057.3	1057.3	1068.9	1073.9	1037.6	1037.6	1017.7	1004.5	983.1	989.6	964.8
40°	1111.8	1116.9	1143.2	1158.2	1125.1	1111.8	1095.4	1083.8	1067.2	1067.2	1042.5
42.5°	1174.7	1184.6	1216.0	1244.0	1225.9	1206.1	1189.5	1177.9	1169.7	1168.0	1141.6
45°	1252.3	1263.9	1298.5	1325.0	1329.9	1315.1	1301.9	1290.4	1283.7	1280.4	1257.3
47.5°	1339.9	1351.4	1382.8	1414.2	1437.3	1434.1	1419.1	1407.6	1412.6	1409.2	1394.4
50°	1437.3	1444.0	1463.7	1500.2	1553.0	1564.6	1561.2	1553.0	1562.9	1562.9	1549.7
52.5°	1515.0	1520.0	1534.8	1577.8	1665.4	1691.8	1713.2	1729.8	1746.3	1756.2	1747.9
55°	1586.1	1586.1	1587.7	1642.2	1772.8	1815.7	1863.6	1898.3	1919.8	1959.5	1975.9
57.5°	1701.7	1693.4	1691.8	1749.7	1901.6	1946.2	2015.6	2065.1	2094.9	2175.8	2174.2
60°	1668.6	1671.9	1731.4	1901.6	2165.9	2205.6	2268.4	2321.3	2377.4	2436.9	2441.9
62.5°	1439.0	1447.3	1536.5	1790.9	2334.5	2541.0	2734.2	2881.3	2963.9	3016.8	2944.1
65°	1007.8	1027.7	1148.3	1458.8	2149.4	2468.3	2773.9	3114.3	3375.3	3780.1	3897.3
67.5°	502.3	517.1	536.9	765.0	1605.8	2053.6	2474.9	2939.1	3286.1	3880.9	4212.9
70°	360.2	366.7	381.7	429.5	718.7	1075.5	1571.2	2235.4	2643.4	3540.5	4009.8
72.5°	279.2	285.8	305.7	373.4	475.8	525.4	624.5	1021.0	1518.3	2445.2	3079.6
75°	216.5	226.4	254.4	337.1	457.7	485.7	490.7	527.0	601.4	1085.5	1726.4
77.5°	152.0	153.6	181.8	290.8	444.5	498.9	490.7	490.7	500.6	553.4	738.5
80°	100.8	102.4	120.6	201.5	389.9	454.3	502.3	479.2	480.8	489.1	502.3
82.5°	52.9	56.2	71.0	122.2	228.0	307.3	418.0	436.2	429.5	437.8	434.5
85°	14.8	14.8	24.8	46.2	112.3	119.0	185.1	252.8	257.7	292.5	312.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	6.6	14.8	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1272.1	1265.5	1263.9	1260.6	1262.2	1257.3	1255.6	1249.0	1249.0	1245.7	1242.4
5°	1280.4	1273.8	1280.4	1268.9	1270.5	1265.5	1257.3	1257.3	1250.7	1245.7	1235.8
7.5°	1257.3	1257.3	1258.9	1252.3	1253.9	1252.3	1242.4	1240.7	1230.8	1230.8	1219.3
10°	1214.3	1214.3	1220.9	1216.0	1217.6	1216.0	1211.0	1209.3	1206.1	1206.1	1187.9
12.5°	1164.7	1174.7	1184.6	1179.7	1179.7	1182.9	1182.9	1184.6	1182.9	1181.3	1166.4
15°	1123.4	1138.3	1148.3	1146.6	1148.3	1156.4	1159.8	1161.5	1166.4	1164.7	1151.5
17.5°	1085.5	1101.9	1110.2	1116.9	1121.8	1128.4	1138.3	1143.2	1149.9	1148.3	1135.0
20°	1050.8	1065.6	1080.5	1088.7	1090.4	1103.7	1115.2	1130.1	1133.3	1136.7	1120.1
22.5°	1014.4	1027.7	1057.3	1052.4	1064.0	1088.7	1095.4	1116.9	1116.9	1128.4	1105.3
25°	983.1	984.7	1030.9	1022.6	1032.6	1077.2	1082.2	1120.1	1110.2	1126.8	1100.3
27.5°	951.7	950.0	1006.2	996.3	1007.8	1068.9	1072.3	1125.1	1115.2	1135.0	1100.3
30°	928.5	923.5	988.0	968.1	984.7	1060.7	1062.3	1130.1	1121.8	1148.3	1111.8
32.5°	923.5	915.2	971.5	956.6	973.1	1052.4	1062.3	1148.3	1138.3	1171.4	1125.1
35°	945.0	931.8	979.7	966.5	979.7	1055.7	1070.6	1176.3	1164.7	1202.8	1156.4
37.5°	984.7	974.8	1014.4	1001.2	1011.1	1078.8	1092.1	1212.7	1211.0	1257.3	1204.4
40°	1054.0	1044.1	1075.5	1057.3	1065.6	1128.4	1135.0	1263.9	1268.9	1325.0	1272.1
42.5°	1148.3	1131.7	1156.4	1135.0	1146.6	1202.8	1196.1	1326.7	1341.5	1419.1	1358.1
45°	1268.9	1247.4	1262.2	1239.1	1247.4	1295.3	1277.1	1411.0	1425.8	1521.6	1467.1
47.5°	1401.0	1374.5	1392.7	1363.0	1368.0	1419.1	1386.1	1511.7	1534.8	1655.4	1602.6
50°	1559.6	1524.9	1531.6	1503.4	1506.7	1558.0	1521.6	1635.6	1663.7	1797.5	1751.3
52.5°	1762.9	1713.2	1713.2	1675.3	1676.9	1728.2	1683.5	1782.7	1814.0	1949.5	1918.1
55°	2030.5	1990.9	1982.6	1942.9	1929.7	1939.6	1876.8	1946.2	1980.9	2108.1	2083.3
57.5°	2243.6	2238.6	2263.4	2207.2	2194.0	2197.3	2118.0	2123.0	2162.6	2261.7	2270.0
60°	2503.0	2511.2	2514.5	2468.3	2463.4	2417.0	2336.1	2322.9	2372.4	2440.1	2466.6
62.5°	2916.0	2907.7	2866.4	2831.7	2800.3	2676.4	2631.8	2559.1	2628.6	2666.5	2721.0
65°	3803.2	3717.3	3453.0	3476.1	3393.4	3124.2	3086.1	2939.1	3048.2	3049.8	3152.2
67.5°	4682.1	4850.6	4688.7	4692.1	4505.4	4017.9	3900.7	3608.3	3669.4	3598.3	3651.2
70°	4832.5	5068.7	5511.6	5432.2	5422.3	5047.2	4652.4	4165.0	3981.6	3829.6	3707.4
72.5°	4158.4	4394.7	5044.0	4863.8	4931.6	5045.6	4634.3	4269.1	3859.4	3666.1	3401.7
75°	2925.9	3266.3	3925.5	3831.3	3880.9	4069.2	3715.7	3672.7	3198.6	3069.7	2663.3
77.5°	1567.9	1989.1	2727.7	2612.0	2633.5	2740.9	2372.4	2296.4	1838.9	1711.6	1250.7
80°	705.4	978.0	1531.6	1402.7	1364.6	1303.5	959.9	756.7	462.6	307.3	213.1
82.5°	467.6	485.7	679.0	588.2	550.1	454.3	294.1	173.5	137.2	115.7	110.7
85°	313.9	287.4	285.8	252.8	234.6	185.1	137.2	85.9	71.0	59.4	54.5
87.5°	18.2	11.6	16.6	18.2	13.2	11.6	8.3	0.0	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1234.2	1234.2	1232.5	1220.9	1214.3	1211.0	1199.4	1197.8	1192.9	1191.2	1191.2
5°	1232.5	1225.9	1217.6	1201.1	1184.6	1169.7	1164.7	1153.2	1144.9	1135.0	1135.0
7.5°	1209.3	1202.8	1184.6	1159.8	1138.3	1116.9	1105.3	1088.7	1075.5	1062.3	1059.1
10°	1182.9	1173.0	1148.3	1115.2	1087.1	1049.1	1034.2	1012.7	997.9	978.0	958.2
12.5°	1154.8	1148.3	1118.5	1080.5	1037.6	989.6	966.5	936.7	917.0	893.8	864.1
15°	1143.2	1130.1	1092.1	1044.1	991.2	933.4	900.4	869.0	839.3	812.8	773.1
17.5°	1128.4	1111.8	1068.9	1012.7	946.6	877.3	834.3	799.6	760.0	731.9	687.3
20°	1111.8	1087.1	1040.9	973.1	898.8	816.1	761.6	726.9	674.0	646.0	593.1
22.5°	1098.6	1067.2	1011.1	935.1	845.9	753.4	689.0	649.3	589.8	556.8	490.7
25°	1095.4	1057.3	989.6	903.7	801.3	692.2	614.6	574.9	500.6	462.6	384.9
27.5°	1097.0	1052.4	976.4	877.3	761.6	637.7	545.2	498.9	404.8	365.1	275.9
30°	1098.6	1054.0	963.2	854.2	725.3	581.5	472.5	418.0	305.7	271.0	191.6
32.5°	1115.2	1060.7	959.9	836.0	692.2	525.4	389.9	340.3	216.5	196.6	142.1
35°	1135.0	1082.2	966.5	832.7	667.5	469.2	305.7	254.4	155.3	150.4	115.7
37.5°	1176.3	1115.2	993.0	841.0	652.5	411.4	228.0	195.0	122.2	125.5	100.8
40°	1239.1	1171.4	1035.8	865.7	650.9	353.5	168.5	152.0	105.8	109.0	92.5
42.5°	1323.4	1249.0	1101.9	918.6	659.2	299.0	135.4	130.5	97.5	100.8	89.2
45°	1434.1	1358.1	1194.5	986.3	682.3	254.4	119.0	119.0	94.2	97.5	87.6
47.5°	1574.5	1490.2	1308.5	1077.2	718.7	229.7	112.3	114.0	92.5	97.5	87.6
50°	1733.1	1640.6	1453.9	1194.5	774.9	223.0	114.0	114.0	94.2	97.5	87.6
52.5°	1898.3	1812.4	1610.8	1328.3	852.5	237.9	117.3	115.7	94.2	97.5	85.9
55°	2066.8	1989.1	1784.3	1485.2	959.9	290.8	125.5	120.6	94.2	97.5	87.6
57.5°	2235.4	2180.8	1966.0	1653.8	1093.7	386.6	158.6	140.5	104.0	105.8	89.2
60°	2425.3	2385.7	2170.9	1875.2	1283.7	535.3	232.9	176.8	123.9	117.3	95.9
62.5°	2671.5	2661.6	2491.4	2194.0	1589.4	750.0	330.4	214.8	133.8	122.2	102.4
65°	3106.0	3132.5	2970.5	2567.4	1792.5	755.0	322.1	188.3	125.5	115.7	100.8
67.5°	3542.2	3464.5	3048.2	2511.2	1617.4	502.3	204.9	147.0	110.7	107.4	94.2
70°	3525.6	3314.2	2764.0	2195.7	1277.1	272.6	148.7	122.2	99.1	99.1	89.2
72.5°	3162.1	2848.3	2260.1	1738.0	852.5	173.5	125.5	107.4	90.8	89.2	82.7
75°	2380.7	2010.6	1452.2	1001.2	380.0	112.3	95.9	87.6	79.3	79.3	72.7
77.5°	1120.1	631.2	350.3	232.9	127.3	76.0	66.1	66.1	64.4	66.1	59.4
80°	152.0	137.2	117.3	102.4	77.6	52.9	47.9	49.6	47.9	49.6	44.6
82.5°	92.5	82.7	67.7	64.4	47.9	36.3	34.7	36.3	33.0	34.7	26.4
85°	44.6	39.7	31.4	29.8	24.8	21.5	18.2	21.5	16.6	18.2	11.6
87.5°	0.0	3.3	1.6	3.3	3.3	3.3	0.0	3.3	0.0	3.3	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



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CATALOG NUMBER: ISS-AF-800-LED-E1-SL3

CANDELA DISTRIBUTION (continued):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5
2.5°	1182.9	1177.9	1176.3	1169.7	1168.0	1161.5	1159.8	1153.2	1141.6	1136.7	1128.4
5°	1120.1	1111.8	1105.3	1101.9	1088.7	1082.2	1072.3	1059.1	1034.2	1022.6	1002.8
7.5°	1032.6	1030.9	1011.1	1004.5	988.0	976.4	961.6	940.1	903.7	882.2	850.9
10°	936.7	930.2	907.1	893.8	872.4	855.8	836.0	804.6	748.4	703.8	655.9
12.5°	847.5	827.7	801.3	781.4	755.0	731.9	708.8	660.8	571.6	498.9	432.8
15°	755.0	725.3	697.2	664.2	636.1	599.8	573.3	510.6	393.2	304.0	262.7
17.5°	660.8	619.5	588.2	543.6	512.2	462.6	434.5	358.5	257.7	218.1	204.9
20°	561.7	507.2	472.5	418.0	386.6	323.9	302.4	247.9	198.2	183.4	180.0
22.5°	456.0	389.9	351.9	292.5	271.0	232.9	216.5	190.0	166.8	160.3	163.6
25°	345.2	274.3	249.5	206.5	198.2	178.4	171.9	158.6	147.0	147.0	152.0
27.5°	246.1	191.6	185.1	158.6	156.9	147.0	142.1	135.4	132.2	135.4	142.1
30°	180.0	145.4	145.4	130.5	130.5	123.9	122.2	119.0	119.0	125.5	132.2
32.5°	142.1	119.0	122.2	110.7	112.3	107.4	109.0	107.4	109.0	114.0	119.0
35°	119.0	102.4	107.4	97.5	100.8	95.9	99.1	99.1	102.4	104.0	105.8
37.5°	105.8	94.2	97.5	90.8	94.2	89.2	94.2	94.2	95.9	95.9	95.9
40°	97.5	87.6	92.5	85.9	90.8	85.9	90.8	90.8	89.2	87.6	89.2
42.5°	92.5	85.9	90.8	84.3	89.2	84.3	87.6	85.9	82.7	82.7	82.7
45°	90.8	84.3	87.6	82.7	85.9	80.9	84.3	82.7	77.6	76.0	79.3
47.5°	90.8	82.7	87.6	80.9	84.3	79.3	82.7	77.6	72.7	72.7	77.6
50°	90.8	82.7	87.6	80.9	84.3	77.6	79.3	74.4	67.7	69.4	76.0
52.5°	92.5	85.9	89.2	82.7	84.3	74.4	77.6	71.0	66.1	67.7	72.7
55°	94.2	85.9	89.2	79.3	80.9	74.4	74.4	71.0	66.1	66.1	71.0
57.5°	94.2	84.3	85.9	77.6	79.3	71.0	72.7	69.4	64.4	62.8	66.1
60°	97.5	87.6	87.6	76.0	77.6	69.4	71.0	67.7	62.8	59.4	61.2
62.5°	100.8	89.2	90.8	79.3	79.3	71.0	72.7	66.1	59.4	56.2	57.8
65°	100.8	89.2	90.8	80.9	80.9	72.7	72.7	66.1	56.2	52.9	52.9
67.5°	95.9	87.6	89.2	80.9	80.9	72.7	72.7	64.4	54.5	49.6	47.9
70°	92.5	84.3	85.9	76.0	77.6	69.4	69.4	61.2	51.2	46.2	43.0
72.5°	84.3	77.6	77.6	71.0	69.4	61.2	61.2	56.2	47.9	41.3	38.0
75°	72.7	66.1	64.4	57.8	57.8	52.9	51.2	46.2	39.7	34.7	33.0
77.5°	59.4	51.2	51.2	43.0	43.0	38.0	39.7	34.7	29.8	28.1	26.4
80°	43.0	34.7	34.7	28.1	28.1	23.1	24.8	23.1	21.5	21.5	19.8
82.5°	26.4	18.2	19.8	14.8	18.2	13.2	14.8	13.2	13.2	11.6	11.6
85°	13.2	6.6	9.9	4.9	8.3	1.6	4.9	3.3	3.3	3.3	3.3
87.5°	1.6	0.0	1.6	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



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CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1232.5	1232.5
2.5°	1120.1	1125.1
5°	996.3	997.9
7.5°	845.9	842.6
10°	646.0	637.7
12.5°	416.3	404.8
15°	251.1	247.9
17.5°	201.5	201.5
20°	180.0	180.0
22.5°	166.8	166.8
25°	156.9	158.6
27.5°	148.7	148.7
30°	138.8	138.8
32.5°	122.2	122.2
35°	109.0	107.4
37.5°	97.5	99.1
40°	89.2	90.8
42.5°	85.9	85.9
45°	82.7	82.7
47.5°	82.7	82.7
50°	80.9	82.7
52.5°	79.3	79.3
55°	74.4	76.0
57.5°	69.4	71.0
60°	64.4	64.4
62.5°	57.8	57.8
65°	52.9	52.9
67.5°	46.2	46.2
70°	41.3	41.3
72.5°	36.3	36.3
75°	31.4	31.4
77.5°	26.4	24.8
80°	19.8	19.8
82.5°	11.6	11.6
85°	3.3	3.3
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)