

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: INVUE

Report Number: P180882

Luminaire Tested: **ICM-F03-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180882
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-SL4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6216 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): 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

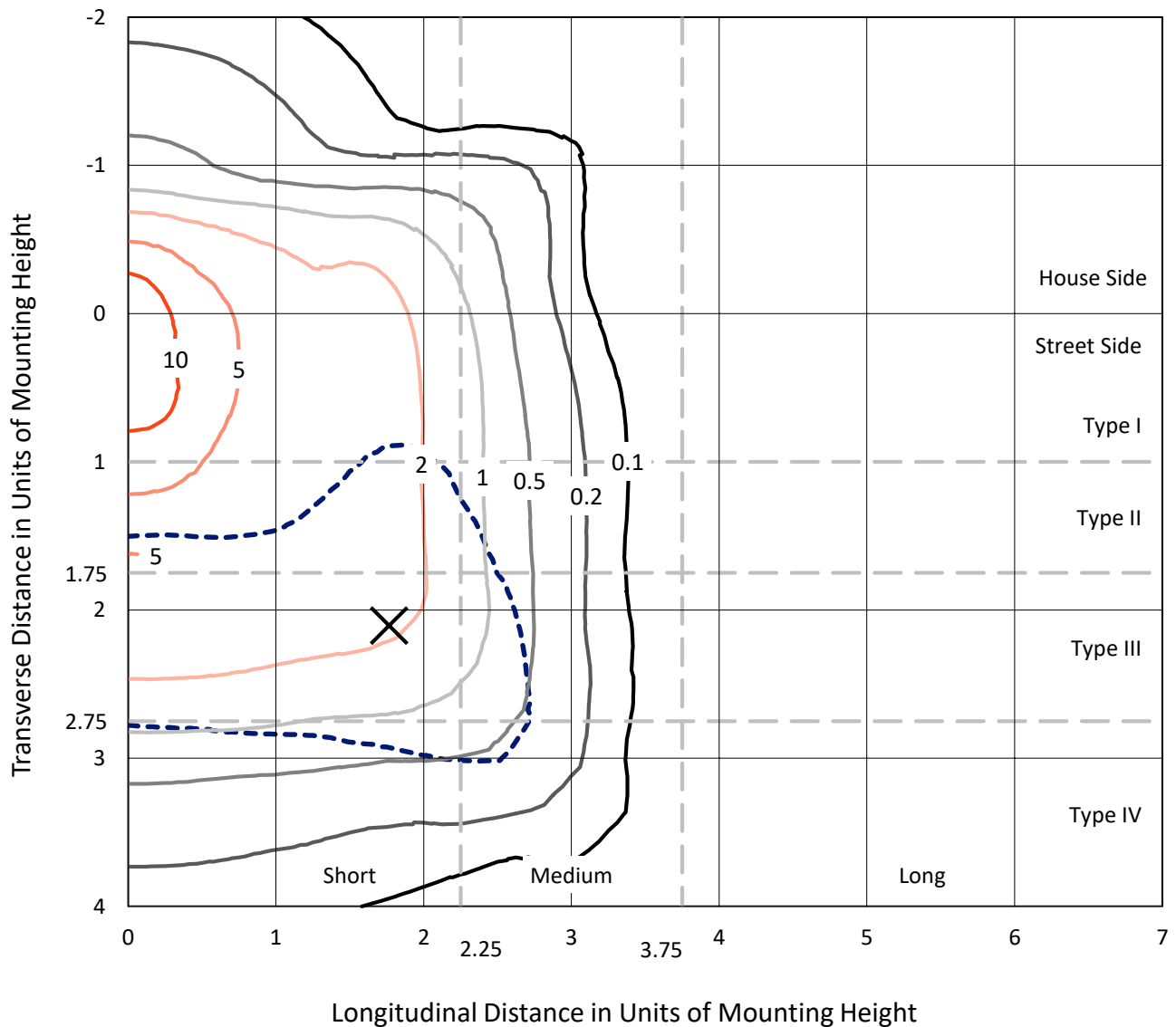


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Iso-Footcandle Lines of Horizontal Illumination

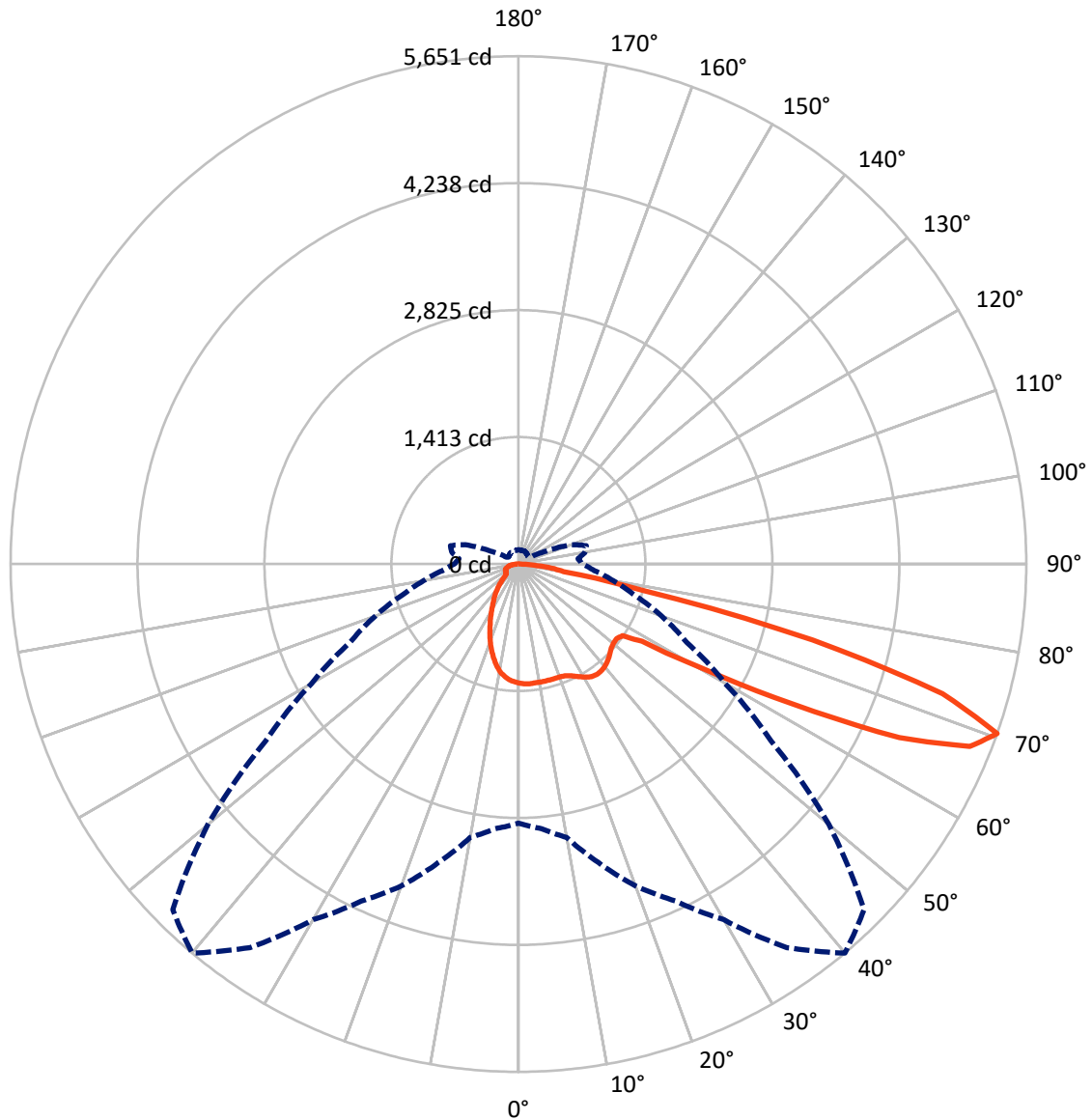
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1290.4	0.0	1290.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4925.6	0.0	4925.6
	% Fixture	79.2	0.0	79.2
Total	Lumens	6216.0	0.0	6216.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	2.0
10°-20°	339.2	5.5
20°-30°	502.1	8.1
30°-40°	634.6	10.2
40°-50°	717.7	11.5
50°-60°	1021.3	16.4
60°-70°	1902.0	30.6
70°-80°	871.7	14.0
80°-90°	103.5	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°	6216.0	100.0
0°-180°	6216.0	100.0



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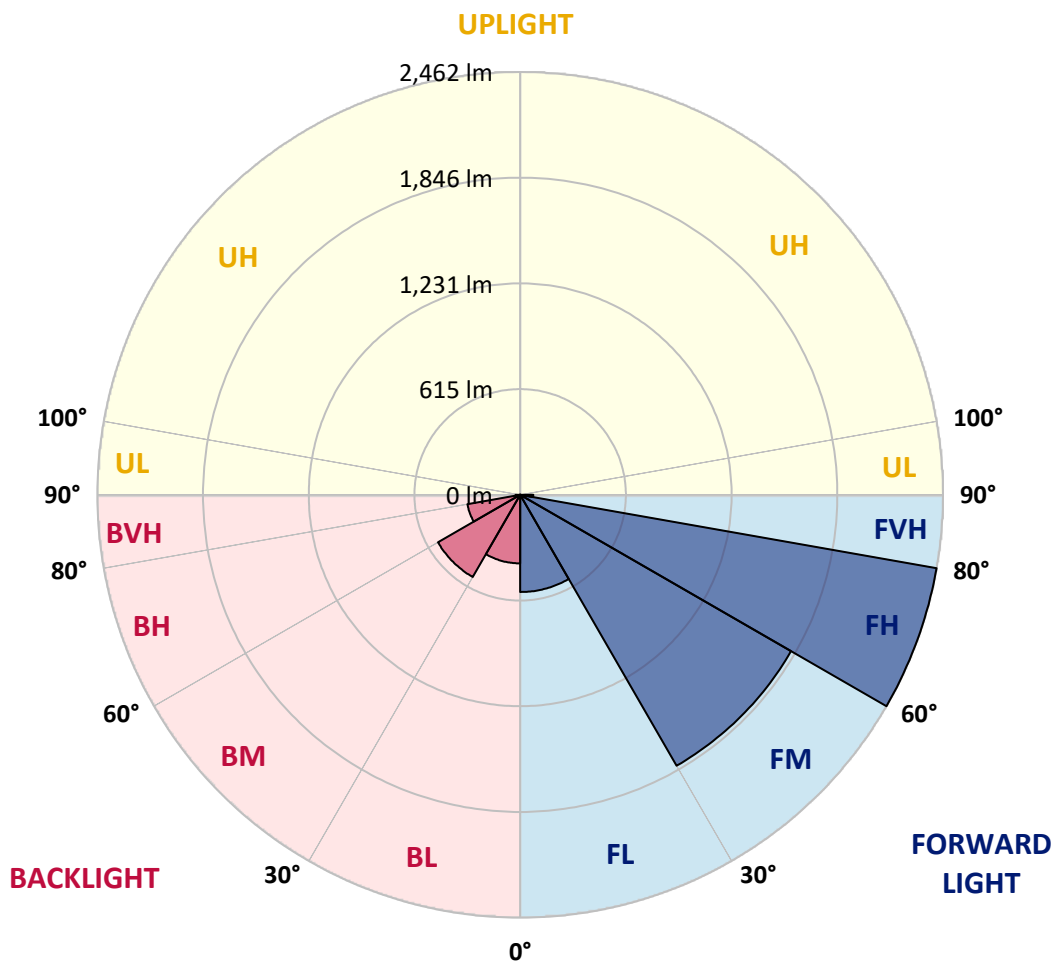
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.0	9.1			
FM	(30°-60°)	1821.1	29.3			
FH	(60°-80°)	2461.8	39.6			G2/5000
FVH	(80°-90°)	76.8	1.2			G1/100
BL	(0°-30°)	399.3	6.4	B1/500		
BM	(30°-60°)	552.5	8.9	B1/1000		
BH	(60°-80°)	311.9	5.0	B1/500		G1/500
BVH	(80°-90°)	26.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1346.7	1350.1	1346.0	1345.3	1345.3	1344.6	1340.4	1339.6	1334.1	1334.7	1336.2
5°	1356.5	1357.9	1355.1	1354.4	1353.0	1350.1	1346.7	1342.4	1338.2	1334.1	1330.5
7.5°	1366.3	1364.9	1362.8	1362.8	1360.7	1356.5	1349.5	1343.9	1334.7	1329.9	1323.5
10°	1380.4	1378.2	1375.5	1374.1	1370.5	1364.2	1354.4	1346.7	1335.5	1325.6	1315.1
12.5°	1393.7	1392.9	1388.8	1386.6	1381.0	1374.7	1362.8	1350.9	1336.2	1320.8	1306.7
15°	1417.5	1414.7	1410.5	1406.3	1397.2	1388.8	1370.5	1356.5	1335.5	1315.1	1293.4
17.5°	1458.9	1454.0	1449.8	1440.7	1429.4	1414.7	1388.1	1364.2	1335.5	1306.0	1281.4
20°	1534.6	1524.1	1518.5	1506.6	1487.0	1460.3	1418.9	1380.4	1337.6	1299.6	1266.7
22.5°	1620.2	1613.2	1605.5	1597.8	1566.9	1528.4	1472.2	1414.7	1350.1	1296.8	1254.8
25°	1716.3	1707.2	1703.0	1689.7	1660.9	1616.8	1540.3	1460.3	1379.0	1308.1	1254.8
27.5°	1801.9	1799.1	1798.3	1783.0	1755.5	1703.7	1613.2	1517.1	1418.2	1331.3	1265.3
30°	1879.7	1876.9	1875.5	1867.1	1835.5	1773.8	1675.6	1567.6	1461.0	1363.5	1284.9
32.5°	1962.5	1953.4	1949.1	1933.0	1897.3	1825.0	1712.8	1600.6	1494.7	1395.1	1306.7
35°	2029.9	2022.2	2013.7	1990.5	1940.0	1854.5	1728.9	1611.8	1508.0	1412.6	1318.0
37.5°	2078.9	2071.2	2059.3	2029.9	1967.5	1864.3	1728.2	1608.3	1503.1	1409.8	1320.0
40°	2100.7	2092.9	2080.3	2043.2	1972.3	1858.7	1714.9	1592.2	1488.4	1395.1	1311.6
42.5°	2092.3	2086.6	2070.5	2034.7	1956.8	1833.4	1688.3	1562.0	1460.3	1371.3	1292.7
45°	2060.0	2055.8	2040.4	2002.5	1921.8	1792.8	1648.9	1524.1	1426.6	1341.8	1267.4
47.5°	2011.6	2010.2	1994.8	1957.6	1877.6	1752.1	1608.3	1487.0	1392.9	1313.0	1246.3
50°	1958.2	1951.3	1943.5	1909.2	1836.3	1717.0	1578.8	1463.8	1374.1	1302.5	1237.2
52.5°	1924.7	1922.5	1915.5	1884.7	1814.5	1696.7	1565.5	1455.4	1372.7	1300.4	1232.4
55°	2223.5	2228.3	2163.8	2029.9	1912.0	1752.8	1605.5	1498.1	1407.0	1334.1	1284.3
57.5°	3288.9	3267.1	3156.3	2890.4	2590.2	2194.0	1908.5	1735.3	1622.3	1635.0	1660.2
60°	3831.7	3827.5	3807.2	3704.0	3504.2	3202.5	2868.0	2484.3	2362.3	2375.6	2385.4
62.5°	4074.4	4080.7	4096.1	4057.6	4005.0	3917.3	3750.3	3596.0	3432.6	3371.6	3208.2
65°	4186.6	4197.9	4233.0	4254.6	4275.0	4290.4	4356.4	4537.3	4656.6	4433.5	3914.4
67.5°	3954.4	4008.5	4124.2	4237.1	4338.1	4481.9	4705.0	5125.1	5417.5	5143.3	4390.7
70°	2882.7	2956.4	3088.9	3438.3	3811.4	4137.5	4569.6	5209.2	5650.5	5438.6	4508.6
72.5°	1807.5	1827.8	1886.7	2015.1	2292.2	2710.9	3466.3	4425.8	4935.0	4766.0	3810.6
75°	1146.8	1153.8	1151.7	1181.1	1228.1	1319.4	1618.1	2614.1	3380.7	3116.9	2123.8
77.5°	683.2	693.7	697.9	707.0	729.5	761.7	786.2	889.4	1417.5	1376.1	770.8
80°	572.4	580.7	573.8	571.6	557.6	547.8	559.7	547.8	508.5	489.6	451.0
82.5°	303.0	302.3	300.2	320.6	362.0	394.1	418.7	413.1	373.9	318.4	270.0
85°	166.2	171.8	171.8	178.9	172.6	173.2	178.9	188.7	174.6	145.9	119.3
87.5°	14.0	21.8	17.5	21.8	29.5	21.0	20.4	20.4	17.5	12.7	11.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1332.7	1331.3	1328.5	1326.3	1326.3	1322.8	1320.8	1319.4	1318.6	1315.8	1315.8
5°	1328.5	1323.5	1318.6	1315.1	1313.0	1309.5	1303.9	1301.1	1297.6	1294.8	1293.4
7.5°	1319.4	1310.2	1302.5	1296.8	1289.9	1284.3	1277.2	1270.9	1264.7	1261.8	1260.4
10°	1305.3	1293.4	1281.4	1270.9	1261.1	1251.3	1242.1	1233.0	1225.3	1219.7	1214.1
12.5°	1292.0	1273.8	1258.3	1242.9	1227.4	1215.5	1202.9	1189.6	1178.3	1167.8	1165.0
15°	1273.8	1252.7	1233.0	1214.1	1195.2	1175.5	1160.1	1145.4	1127.2	1115.2	1106.1
17.5°	1256.9	1231.6	1207.8	1185.3	1162.2	1141.9	1118.7	1099.1	1080.8	1062.6	1049.3
20°	1238.7	1211.3	1186.1	1160.8	1135.5	1109.6	1083.0	1057.7	1035.3	1013.5	991.7
22.5°	1222.5	1194.5	1170.0	1142.6	1114.5	1085.0	1054.2	1022.6	996.7	968.7	943.4
25°	1212.8	1181.9	1156.6	1130.0	1099.1	1066.8	1031.7	994.6	963.0	930.7	900.6
27.5°	1212.8	1172.8	1146.8	1120.1	1088.6	1054.2	1015.6	975.0	939.2	903.4	866.2
30°	1223.3	1174.1	1139.1	1111.0	1078.7	1041.6	998.8	956.0	916.7	874.6	838.9
32.5°	1233.0	1176.9	1133.5	1097.7	1060.5	1024.0	980.6	935.0	891.4	851.4	813.6
35°	1239.4	1176.9	1122.9	1077.3	1035.3	999.4	956.7	911.1	866.9	827.6	792.6
37.5°	1240.1	1171.4	1106.1	1054.2	1010.1	972.8	932.2	889.4	847.3	810.8	781.3
40°	1233.0	1160.1	1089.3	1029.7	983.4	945.5	908.3	869.8	831.8	801.7	776.5
42.5°	1220.4	1148.2	1073.1	1010.1	961.6	922.3	888.0	855.0	822.1	796.1	775.1
45°	1201.5	1132.0	1058.4	998.1	950.4	909.0	875.4	848.0	819.9	798.1	777.1
47.5°	1184.7	1126.4	1063.4	1005.8	956.0	913.2	878.9	855.7	834.0	819.3	790.5
50°	1181.1	1123.6	1065.4	1012.1	961.6	918.1	888.0	876.0	869.8	860.6	816.4
52.5°	1171.4	1122.9	1080.8	1051.4	1019.2	998.8	967.3	978.4	971.4	939.2	859.2
55°	1274.4	1288.5	1327.7	1383.8	1435.7	1447.6	1444.2	1430.8	1360.0	1170.0	962.3
57.5°	1752.1	1831.4	1905.7	1938.6	1934.4	1897.3	1870.6	1816.6	1714.2	1482.7	1165.7
60°	2415.6	2428.2	2388.9	2330.7	2232.6	2150.4	2062.8	1961.8	1813.1	1586.5	1290.5
62.5°	3026.5	2856.8	2682.2	2518.0	2368.6	2238.2	2116.1	1975.1	1781.5	1545.1	1274.4
65°	3457.9	3098.7	2823.1	2587.5	2376.3	2194.0	2041.8	1858.7	1640.6	1427.4	1181.1
67.5°	3680.2	3129.6	2706.7	2378.4	2078.9	1826.4	1623.7	1445.6	1283.5	1190.2	1033.9
70°	3431.9	2656.2	2067.0	1696.0	1337.6	1072.5	847.3	711.2	664.2	752.6	782.8
72.5°	2557.3	1728.9	1229.6	951.1	728.7	580.7	445.4	350.0	284.7	298.8	387.9
75°	1209.2	746.2	527.4	401.2	319.2	264.5	216.0	197.8	165.5	137.5	129.0
77.5°	470.6	343.0	283.4	207.6	147.3	118.5	101.0	97.5	99.6	96.8	95.3
80°	358.4	242.7	152.2	111.5	96.1	84.8	75.1	72.3	73.7	77.1	80.7
82.5°	199.9	124.8	92.6	80.7	72.3	61.8	56.1	51.9	52.6	56.8	64.6
85°	77.1	60.3	55.4	53.3	49.8	40.0	34.3	35.1	40.0	47.7	47.7
87.5°	8.4	8.4	11.3	8.4	8.4	8.4	7.7	9.1	9.9	12.7	14.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3	1326.3
2.5°	1314.4	1314.4	1314.4	1313.0	1313.7	1310.9	1310.9	1308.8	1312.3	1310.2	1309.5
5°	1294.1	1293.4	1290.5	1290.5	1290.5	1290.5	1292.7	1287.1	1291.3	1291.3	1289.1
7.5°	1259.7	1259.7	1252.0	1256.2	1254.8	1256.9	1259.7	1256.9	1261.1	1263.9	1261.8
10°	1212.0	1212.0	1205.7	1210.6	1208.5	1213.4	1218.3	1215.5	1218.3	1222.5	1223.9
12.5°	1159.4	1156.6	1151.0	1153.1	1153.1	1155.9	1158.0	1161.5	1165.0	1170.6	1173.4
15°	1098.4	1094.1	1087.2	1087.2	1083.0	1084.4	1088.6	1090.0	1096.9	1104.7	1113.8
17.5°	1035.9	1025.4	1017.7	1008.6	1001.6	1007.2	1012.1	1015.6	1021.2	1033.1	1039.4
20°	977.0	956.0	941.3	929.3	921.6	925.1	931.4	935.6	940.6	943.4	945.5
22.5°	918.8	895.0	874.6	859.9	847.3	850.8	848.0	845.9	849.4	840.3	839.5
25°	868.3	840.3	812.9	795.4	779.9	775.1	760.3	756.8	747.0	739.3	733.7
27.5°	831.8	795.4	765.2	744.8	720.4	702.1	683.2	664.2	653.7	641.1	634.8
30°	803.1	764.6	728.7	694.4	662.1	634.1	608.8	584.3	567.4	549.2	537.3
32.5°	776.5	740.7	697.2	650.2	606.7	575.2	542.1	514.1	487.4	463.6	446.0
35°	758.2	718.2	662.8	605.3	556.2	519.1	484.0	444.0	411.7	380.8	362.0
37.5°	748.4	699.3	631.3	567.4	512.7	470.6	427.2	380.8	341.6	312.8	284.1
40°	740.7	680.4	603.2	533.8	476.3	425.8	375.3	320.6	277.0	246.9	224.5
42.5°	732.3	659.4	578.6	507.1	443.3	384.4	323.4	265.1	223.7	202.7	192.8
45°	723.2	641.1	555.5	481.9	411.0	339.4	269.3	215.4	190.8	183.7	183.7
47.5°	721.0	629.1	538.7	457.3	374.5	287.5	219.5	185.9	178.9	180.3	183.1
50°	729.5	625.7	523.9	428.6	326.1	232.8	185.9	174.6	176.1	180.3	184.5
52.5°	749.8	628.5	508.5	388.6	268.7	192.2	171.8	171.2	175.3	181.7	185.9
55°	784.2	628.5	479.1	328.9	214.6	172.6	167.0	169.8	175.3	180.9	184.5
57.5°	857.8	622.1	427.2	263.0	179.5	165.5	165.5	169.0	174.0	179.5	182.3
60°	945.5	613.7	354.2	203.4	162.0	159.9	164.8	169.0	173.2	178.1	180.9
62.5°	951.1	592.0	280.6	168.4	152.9	156.4	164.1	169.8	171.2	174.6	178.1
65°	874.0	516.2	223.1	150.8	148.7	154.3	162.0	166.2	167.0	168.4	171.8
67.5°	765.2	420.8	180.3	142.4	144.5	150.8	155.0	158.5	160.7	164.1	164.8
70°	628.5	338.0	154.3	134.0	136.1	143.1	146.6	150.1	154.3	158.5	156.4
72.5°	445.4	263.0	135.3	124.8	127.6	134.0	138.1	141.0	144.5	148.7	145.9
75°	189.4	183.7	117.1	112.9	117.1	121.3	125.6	129.8	133.3	135.3	135.3
77.5°	96.8	108.0	101.0	101.0	103.8	108.0	111.5	115.7	117.9	119.9	122.7
80°	82.0	83.4	84.8	87.6	90.5	94.7	98.2	101.7	102.4	103.1	104.5
82.5°	68.0	70.9	72.3	76.5	78.5	80.0	82.0	82.0	83.4	83.4	81.4
85°	49.1	52.6	54.7	55.4	54.7	55.4	56.1	57.5	61.0	61.0	58.2
87.5°	14.0	13.3	16.8	17.5	19.0	21.8	24.6	29.5	30.9	32.3	32.3
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: P180882

CATALOG NUMBER: ICM-F03-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1326.3	1326.3	1326.3	1326.3
2.5°	1308.8	1310.2	1307.4	1308.1
5°	1289.1	1292.0	1288.5	1292.7
7.5°	1263.9	1268.1	1267.4	1266.7
10°	1227.4	1233.0	1233.0	1235.2
12.5°	1181.1	1184.7	1187.4	1188.8
15°	1118.7	1125.0	1128.6	1128.6
17.5°	1043.6	1047.9	1050.0	1047.2
20°	948.3	946.9	947.5	940.6
22.5°	838.1	840.3	834.0	835.4
25°	730.1	726.6	729.5	725.2
27.5°	625.7	626.3	618.6	622.1
30°	526.0	522.5	512.7	517.6
32.5°	430.0	420.8	410.3	404.0
35°	339.4	325.5	320.6	318.4
37.5°	266.5	251.1	246.2	240.6
40°	211.8	206.2	204.1	205.5
42.5°	190.0	190.0	191.4	192.2
45°	184.5	186.6	188.7	189.4
47.5°	185.2	187.3	190.0	190.8
50°	186.6	188.7	190.8	191.4
52.5°	187.3	187.3	188.7	189.4
55°	185.9	185.2	185.9	186.6
57.5°	183.1	181.7	182.3	184.5
60°	181.7	179.5	180.9	182.3
62.5°	178.1	177.5	178.9	179.5
65°	170.4	171.2	173.2	173.2
67.5°	163.4	164.1	164.8	165.5
70°	155.0	155.7	157.1	157.8
72.5°	145.2	148.0	150.1	152.9
75°	137.5	140.3	144.5	147.3
77.5°	124.2	126.2	131.2	134.7
80°	105.2	104.5	105.2	107.3
82.5°	80.7	80.7	80.0	79.3
85°	56.8	56.1	54.0	54.0
87.5°	30.9	30.1	29.5	28.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)