

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: P181447

Luminaire Tested: **ICM-E04-LED-E1-T3-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181447
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E04-LED-E1-T3-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9684.9 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 97.2
Input Voltage (V): NR
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

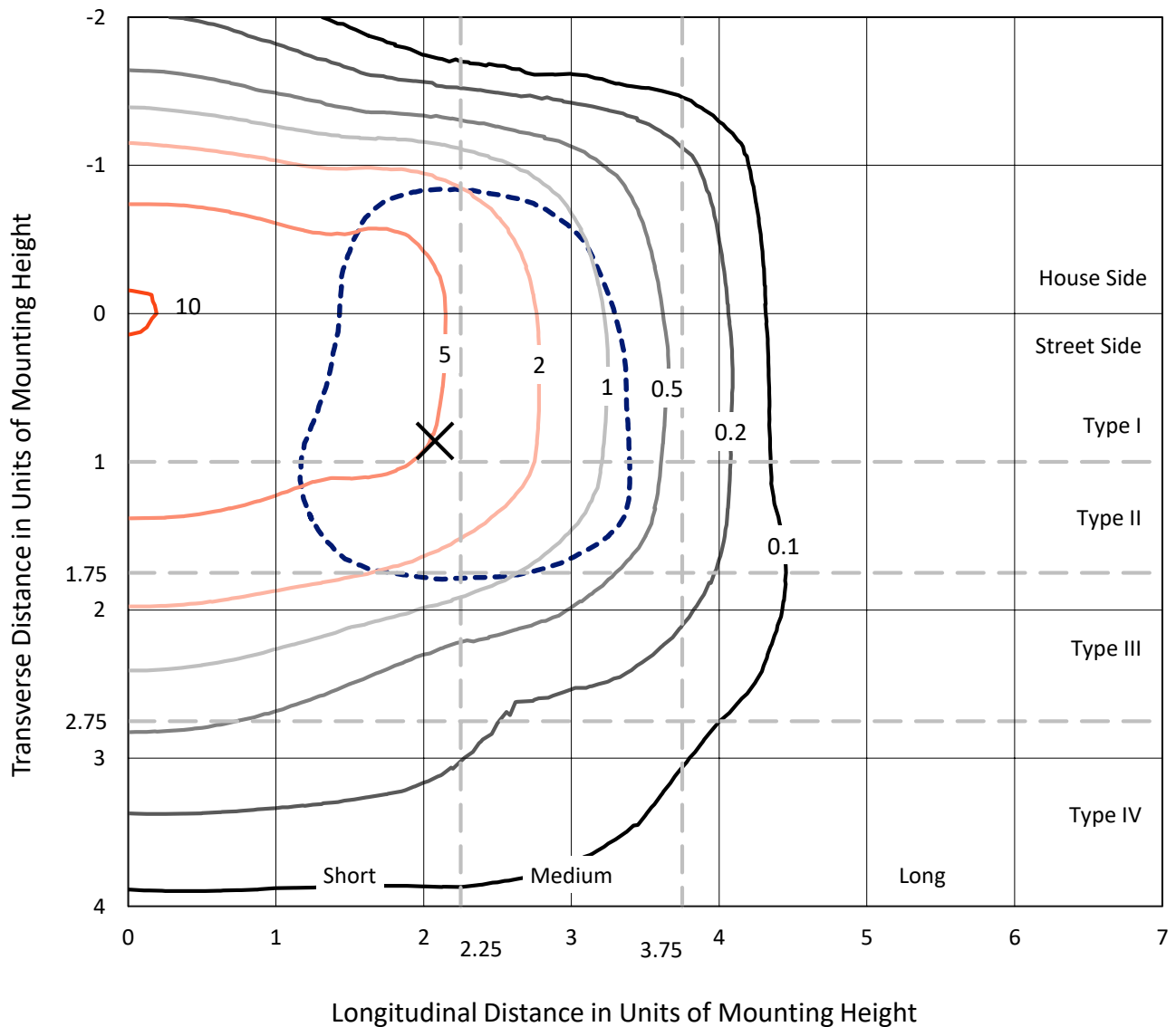


REPORT NUMBER: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

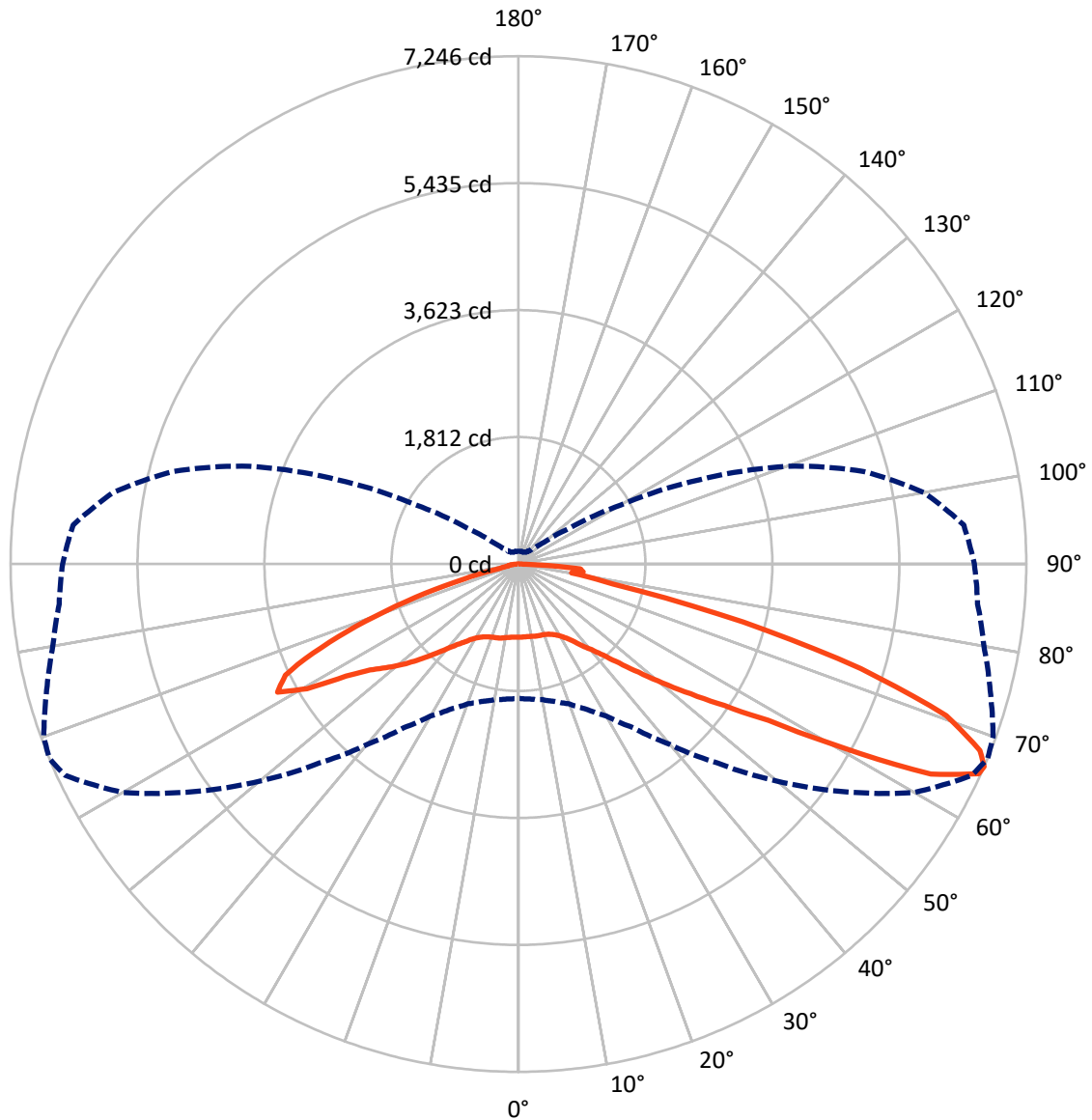


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3344.5	0.0	3344.5
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	6340.4	0.0	6340.4
	% Fixture	65.5	0.0	65.5
Total	Lumens	9684.9	0.0	9684.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.0
10°-20°	295.0	3.0
20°-30°	507.0	5.2
30°-40°	823.3	8.5
40°-50°	1374.5	14.2
50°-60°	2164.3	22.3
60°-70°	2951.2	30.5
70°-80°	1277.6	13.2
80°-90°	192.1	2.0
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°	9684.9	100.0
0°-180°	9684.9	100.0



REPORT NUMBER: P181447

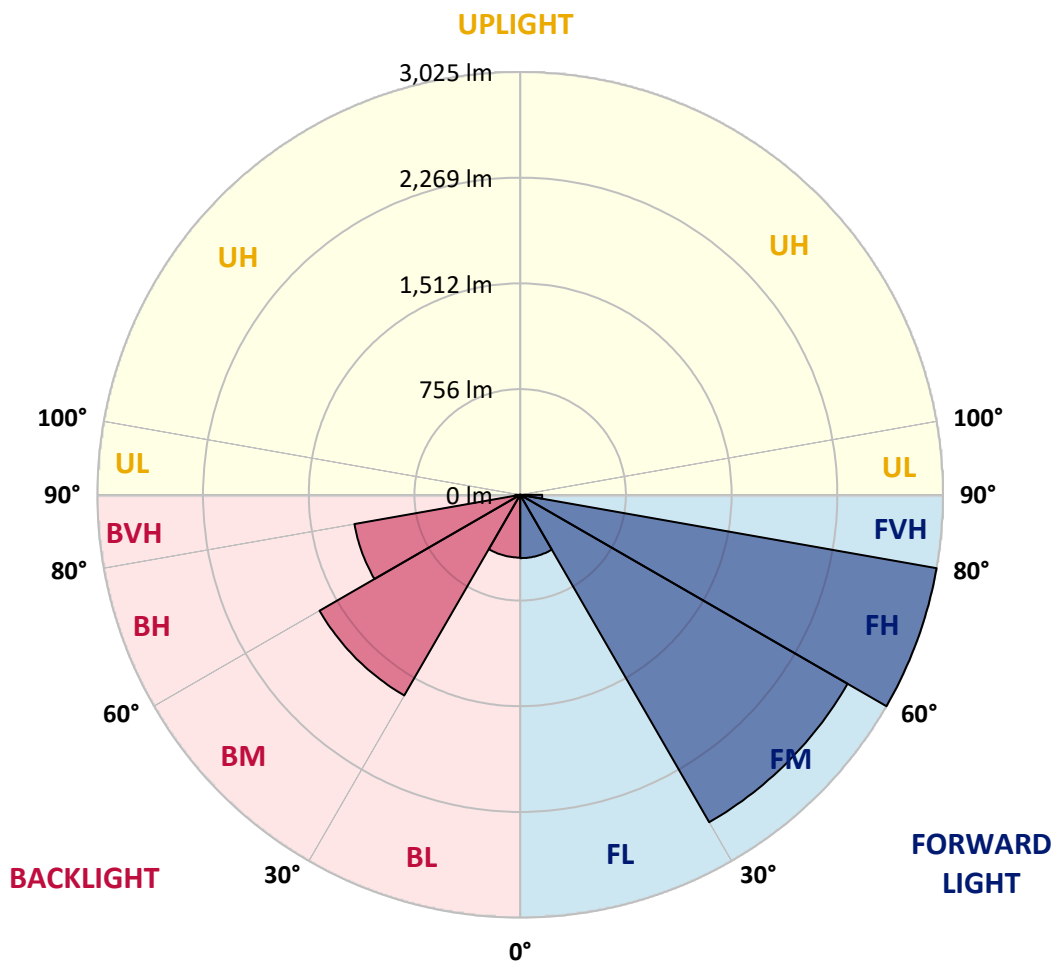
CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.1	4.7			
FM (30°-60°)	2704.7	27.9			
FH (60°-80°)	3024.9	31.2			G2/5000
FVH (80°-90°)	157.7	1.6			G2/225
BL (0°-30°)	448.9	4.6	B1/500		
BM (30°-60°)	1657.3	17.1	B2/2500		
BH (60°-80°)	1203.9	12.4	B3/2500		G3/2500
BVH (80°-90°)	34.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1047.8	1052.0	1047.8	1048.9	1050.0	1048.9	1047.8	1047.8	1044.8	1046.8	1048.9
5°	1043.6	1046.8	1045.8	1046.8	1047.8	1046.8	1045.8	1046.8	1044.8	1045.8	1048.9
7.5°	1038.4	1037.4	1038.4	1040.6	1042.6	1042.6	1042.6	1043.6	1042.6	1042.6	1045.8
10°	1022.7	1023.8	1025.9	1029.0	1030.1	1033.2	1033.2	1036.4	1037.4	1039.4	1043.6
12.5°	1002.9	1003.9	1006.0	1008.1	1013.3	1018.5	1018.5	1025.9	1029.0	1034.2	1041.6
15°	988.2	989.2	991.4	993.4	997.6	1002.9	1006.0	1014.3	1019.6	1029.0	1039.4
17.5°	996.6	995.5	997.6	998.7	998.7	1002.9	1002.9	1009.1	1015.4	1023.8	1037.4
20°	1020.7	1020.7	1022.7	1022.7	1021.7	1023.8	1019.6	1019.6	1020.7	1024.8	1034.2
22.5°	1044.8	1043.6	1047.8	1050.0	1051.0	1054.1	1050.0	1048.9	1043.6	1040.6	1043.6
25°	1067.7	1066.7	1071.9	1075.1	1080.3	1083.4	1083.4	1083.4	1079.3	1074.1	1070.9
27.5°	1103.4	1103.4	1108.6	1111.7	1115.9	1122.1	1125.3	1125.3	1126.3	1119.1	1113.8
30°	1163.0	1164.1	1165.1	1169.3	1173.5	1175.5	1179.7	1182.9	1186.1	1181.9	1173.5
32.5°	1234.2	1227.9	1227.9	1234.2	1239.4	1245.7	1247.8	1252.0	1258.2	1255.2	1254.1
35°	1319.0	1316.9	1314.8	1316.9	1323.2	1330.5	1338.9	1346.2	1342.1	1348.3	1345.1
37.5°	1444.6	1446.7	1447.7	1447.7	1446.7	1448.8	1452.9	1460.3	1458.2	1460.3	1464.5
40°	1651.9	1644.6	1637.2	1638.2	1627.8	1629.9	1613.1	1620.5	1621.5	1614.1	1617.3
42.5°	1859.2	1863.4	1866.4	1874.9	1867.5	1863.4	1847.6	1847.6	1839.3	1831.9	1829.9
45°	2083.2	2091.5	2092.6	2109.3	2103.1	2116.7	2128.2	2125.0	2111.5	2110.3	2095.7
47.5°	2262.2	2275.7	2290.4	2310.3	2326.1	2356.4	2392.0	2409.8	2420.2	2428.6	2411.8
50°	2396.2	2402.4	2440.1	2471.6	2506.1	2556.3	2605.5	2669.4	2720.7	2744.8	2767.7
52.5°	2468.4	2484.1	2524.9	2574.2	2634.8	2710.2	2789.8	2891.3	2979.3	3037.9	3090.2
55°	2484.1	2499.8	2545.9	2608.7	2691.4	2792.9	2907.0	3045.2	3177.0	3290.2	3400.0
57.5°	2440.1	2458.0	2507.1	2579.4	2676.7	2800.2	2943.6	3124.8	3306.9	3490.1	3652.3
60°	2359.5	2381.5	2426.5	2497.7	2605.5	2744.8	2916.4	3143.6	3399.0	3679.6	3990.4
62.5°	2226.6	2249.6	2291.5	2370.0	2480.9	2634.8	2833.7	3116.4	3477.5	3919.3	4470.9
65°	2013.0	2023.5	2074.8	2154.3	2252.8	2422.3	2641.1	2982.3	3452.4	4066.9	4826.9
66°	1916.8	1934.5	1966.0	2029.8	2124.0	2283.1	2502.9	2849.4	3357.1	4015.6	4817.4
67.5°	1766.0	1779.5	1800.6	1843.5	1901.0	2018.2	2226.6	2554.2	3066.2	3756.0	4617.5
70°	1427.8	1434.1	1462.4	1477.0	1496.9	1535.6	1611.1	1799.5	2198.3	2846.2	3726.6
72.5°	973.5	991.4	1021.7	1063.5	1118.0	1170.3	1206.0	1230.1	1315.8	1698.0	2483.1
75°	714.0	732.7	771.5	827.0	922.2	1031.1	1144.2	1196.5	1160.9	1111.7	1382.8
77.5°	414.5	439.6	472.1	525.5	613.4	757.9	951.5	1123.3	1239.4	1246.8	1183.9
80°	174.8	178.0	197.9	225.0	279.5	381.0	531.8	778.8	1036.4	1210.1	1251.0
82.5°	39.8	49.2	62.8	74.3	91.1	125.6	186.3	309.9	560.0	878.2	1145.2
85°	14.7	14.7	19.9	29.3	33.5	37.7	49.2	78.5	134.0	247.1	515.1
87.5°	0.0	1.0	2.1	2.1	4.2	5.2	8.4	11.5	10.5	9.4	31.4
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: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1046.8	1045.8	1043.6	1043.6	1043.6	1043.6	1041.6	1042.6	1040.6	1041.6	1041.6
5°	1045.8	1045.8	1044.8	1042.6	1043.6	1043.6	1044.8	1042.6	1042.6	1043.6	1042.6
7.5°	1045.8	1044.8	1044.8	1044.8	1045.8	1044.8	1045.8	1045.8	1045.8	1046.8	1046.8
10°	1045.8	1045.8	1047.8	1048.9	1048.9	1050.0	1053.1	1053.1	1054.1	1055.2	1057.3
12.5°	1046.8	1051.0	1054.1	1057.3	1058.3	1060.5	1065.7	1065.7	1067.7	1070.9	1071.9
15°	1047.8	1054.1	1060.5	1062.5	1064.7	1068.8	1074.1	1076.1	1079.3	1082.4	1084.5
17.5°	1046.8	1055.2	1062.5	1065.7	1068.8	1074.1	1080.3	1082.4	1086.6	1090.8	1095.0
20°	1045.8	1057.3	1068.8	1073.0	1077.2	1084.5	1092.8	1098.1	1102.3	1108.6	1112.8
22.5°	1052.0	1065.7	1081.4	1087.6	1095.0	1104.4	1115.9	1122.1	1127.4	1133.7	1136.8
25°	1071.9	1082.4	1101.2	1111.7	1121.1	1136.8	1152.6	1159.9	1166.1	1171.4	1172.5
27.5°	1105.4	1108.6	1131.6	1145.2	1158.8	1183.9	1202.8	1208.0	1219.5	1223.7	1222.7
30°	1159.9	1154.6	1173.5	1194.4	1214.3	1248.8	1271.9	1285.5	1295.9	1295.9	1287.5
32.5°	1238.4	1230.1	1235.3	1259.4	1282.3	1332.6	1359.8	1377.6	1384.9	1382.8	1365.0
35°	1340.9	1335.7	1332.6	1351.5	1388.1	1446.7	1482.3	1491.7	1503.3	1501.1	1478.1
37.5°	1462.4	1458.2	1458.2	1480.2	1515.8	1602.7	1641.4	1647.7	1646.6	1629.9	1587.0
40°	1605.8	1603.7	1594.3	1606.9	1637.2	1750.2	1802.6	1811.0	1799.5	1772.3	1722.1
42.5°	1812.0	1799.5	1770.2	1777.5	1800.6	1910.4	1978.5	2001.5	1990.0	1962.8	1881.1
45°	2081.0	2067.5	2018.2	2012.0	2024.6	2120.9	2208.8	2214.1	2211.9	2177.4	2081.0
47.5°	2397.2	2376.3	2323.9	2307.2	2303.0	2392.0	2476.8	2485.1	2479.9	2428.6	2299.8
50°	2739.6	2709.1	2674.6	2663.1	2646.3	2710.2	2796.0	2797.1	2776.2	2704.9	2584.6
52.5°	3104.9	3094.3	3088.1	3076.6	3069.2	3124.8	3177.0	3145.7	3114.3	3039.9	2935.3
55°	3473.3	3516.3	3560.2	3564.4	3577.0	3636.7	3635.6	3549.8	3526.7	3485.9	3382.3
57.5°	3864.9	4023.9	4162.2	4205.0	4246.9	4357.9	4347.5	4262.6	4233.3	4183.1	4097.2
60°	4397.7	4826.9	5225.7	5321.0	5386.9	5519.8	5507.3	5376.4	5437.1	5433.0	5322.0
62.5°	5144.0	5858.0	6455.8	6602.3	6648.3	6663.0	6583.4	6442.1	6501.8	6568.8	6227.5
65°	5649.7	6489.2	7102.6	7215.7	7222.0	7047.2	6870.3	6703.9	6689.2	6631.6	6143.8
66°	5661.2	6520.6	7136.1	7246.1	7207.3	6968.7	6744.6	6577.2	6504.9	6378.3	5872.7
67.5°	5458.1	6324.9	6987.5	7103.7	7018.9	6680.8	6371.9	6156.3	6015.0	5809.8	5363.8
70°	4584.0	5443.5	6259.9	6476.7	6503.9	5999.3	5571.2	5317.8	5127.3	4845.7	4461.5
72.5°	3408.4	4185.1	4905.4	5112.7	5218.4	4815.4	4454.2	4261.6	4001.0	3704.7	3431.5
75°	2136.6	2685.0	3167.6	3313.1	3213.7	2901.8	2685.0	2604.5	2348.0	2171.1	2046.5
77.5°	1221.6	1393.3	1432.0	1376.6	1259.4	964.1	685.7	507.7	440.7	487.8	538.0
80°	1192.3	1092.8	871.0	766.2	694.1	477.3	280.6	192.7	160.2	164.4	178.0
82.5°	1291.7	1386.0	1141.0	930.6	780.9	527.6	291.0	154.9	104.7	123.5	139.3
85°	839.5	1168.3	1052.0	886.6	718.1	451.2	239.7	80.6	53.4	70.1	96.3
87.5°	84.8	93.2	79.5	107.8	80.6	37.7	18.9	11.5	10.5	12.6	18.9
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: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1042.6	1042.6	1043.6	1044.8	1045.8	1046.8	1046.8	1046.8	1046.8	1048.9	1047.8
5°	1044.8	1046.8	1048.9	1050.0	1052.0	1052.0	1055.2	1054.1	1054.1	1057.3	1058.3
7.5°	1048.9	1052.0	1056.2	1055.2	1059.4	1058.3	1060.5	1060.5	1057.3	1058.3	1056.2
10°	1058.3	1062.5	1064.7	1061.5	1062.5	1058.3	1057.3	1052.0	1045.8	1042.6	1038.4
12.5°	1074.1	1078.2	1078.2	1073.0	1066.7	1057.3	1050.0	1038.4	1029.0	1023.8	1018.5
15°	1087.6	1091.8	1090.8	1082.4	1073.0	1058.3	1047.8	1034.2	1020.7	1012.3	1007.1
17.5°	1098.1	1100.2	1097.0	1085.6	1075.1	1061.5	1051.0	1036.4	1020.7	1010.1	1000.8
20°	1113.8	1111.7	1104.4	1089.8	1078.2	1065.7	1057.3	1044.8	1026.9	1013.3	999.7
22.5°	1136.8	1128.5	1114.9	1099.2	1087.6	1076.1	1067.7	1054.1	1036.4	1019.6	1003.9
25°	1167.2	1150.4	1131.6	1114.9	1104.4	1091.8	1082.4	1067.7	1048.9	1030.1	1011.3
27.5°	1211.2	1181.9	1157.8	1143.2	1131.6	1115.9	1104.4	1085.6	1065.7	1043.6	1022.7
30°	1260.4	1220.6	1197.6	1186.1	1173.5	1156.8	1138.9	1114.9	1091.8	1067.7	1042.6
32.5°	1324.2	1276.1	1254.1	1242.6	1225.9	1204.8	1183.9	1156.8	1124.3	1092.8	1062.5
35°	1408.0	1358.8	1335.7	1318.0	1294.9	1267.7	1237.3	1200.7	1156.8	1114.9	1076.1
37.5°	1498.0	1444.6	1422.6	1403.8	1369.2	1333.7	1290.7	1237.3	1177.7	1122.1	1074.1
40°	1612.1	1562.9	1534.6	1502.1	1461.3	1399.6	1332.6	1255.2	1178.7	1110.7	1054.1
42.5°	1756.6	1707.4	1665.5	1614.1	1543.0	1447.7	1352.5	1252.0	1159.9	1082.4	1021.7
45°	1948.1	1888.5	1816.2	1726.2	1611.1	1478.1	1353.5	1232.1	1124.3	1038.4	973.5
47.5°	2182.6	2091.5	1973.2	1821.5	1656.1	1486.5	1336.8	1192.3	1068.8	975.6	903.4
50°	2461.0	2317.7	2123.0	1900.0	1679.1	1474.0	1294.9	1132.7	990.3	890.8	805.0
52.5°	2779.3	2544.9	2258.0	1956.5	1678.1	1432.0	1223.7	1042.6	887.7	776.7	695.1
55°	3153.0	2804.4	2397.2	1998.3	1648.8	1354.6	1114.9	916.0	761.0	658.4	583.1
57.5°	3700.5	3225.2	2640.1	2063.3	1590.1	1235.3	967.3	764.2	628.1	530.7	466.9
60°	4701.2	3927.7	3077.6	2194.2	1500.1	1060.5	794.5	602.0	487.8	409.3	366.4
62.5°	5454.9	4470.9	3314.3	2164.9	1319.0	844.7	589.4	438.6	359.1	305.7	278.4
65°	5347.1	4302.4	3062.0	1864.4	1034.2	595.6	391.5	298.3	247.1	222.0	206.2
66°	5103.2	4082.6	2843.2	1678.1	894.0	495.2	322.4	250.2	212.5	194.7	184.3
67.5°	4640.5	3674.3	2451.6	1375.5	686.7	359.1	242.9	197.9	172.7	165.4	158.0
70°	3857.5	2930.1	1720.9	800.8	350.7	199.9	153.9	138.1	131.9	130.9	128.7
72.5°	2956.2	2073.8	1013.3	379.0	182.1	132.9	119.3	114.1	112.0	112.0	113.0
75°	1812.0	1165.1	448.0	185.3	127.7	112.0	105.8	103.6	102.6	103.6	102.6
77.5°	605.0	370.6	191.5	140.3	116.2	103.6	99.4	97.4	97.4	97.4	97.4
80°	185.3	161.2	146.5	129.8	110.0	98.4	92.1	91.1	92.1	93.2	90.0
82.5°	139.3	131.9	123.5	115.2	99.4	87.9	85.9	85.9	85.9	82.7	78.5
85°	102.6	101.6	83.7	78.5	73.3	73.3	73.3	73.3	70.1	64.9	60.7
87.5°	18.9	17.8	18.9	19.9	29.3	31.4	31.4	33.5	36.7	34.5	34.5
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: P181447

CATALOG NUMBER: ICM-E04-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1043.6	1043.6	1043.6	1043.6	1043.6
2.5°	1047.8	1046.8	1050.0	1047.8	1048.9
5°	1057.3	1056.2	1058.3	1056.2	1059.4
7.5°	1054.1	1052.0	1051.0	1052.0	1053.1
10°	1032.2	1030.1	1029.0	1028.0	1029.0
12.5°	1013.3	1009.1	1009.1	1007.1	1008.1
15°	999.7	996.6	995.5	993.4	994.5
17.5°	993.4	988.2	986.1	984.0	984.0
20°	989.2	983.0	979.8	977.8	976.7
22.5°	989.2	979.8	975.6	973.5	972.5
25°	993.4	982.0	975.6	972.5	971.4
27.5°	1001.8	987.2	979.8	975.6	975.6
30°	1016.5	997.6	987.2	982.0	980.8
32.5°	1031.1	1006.0	991.4	985.0	983.0
35°	1038.4	1006.0	988.2	977.8	975.6
37.5°	1030.1	992.4	970.4	954.7	951.5
40°	1003.9	964.1	940.0	925.4	923.3
42.5°	969.3	930.6	902.3	891.9	888.7
45°	922.2	876.2	847.9	833.3	834.3
47.5°	841.7	794.5	769.4	755.8	757.9
50°	746.4	700.3	678.3	663.7	666.8
52.5°	641.7	599.8	578.9	571.5	569.5
55°	531.8	499.4	484.7	476.3	473.1
57.5°	431.3	408.3	397.8	387.4	388.4
60°	340.2	328.7	325.6	314.0	313.0
62.5°	268.0	260.7	257.5	249.1	250.2
65°	203.1	201.0	203.1	197.9	199.9
66°	183.2	184.3	184.3	181.1	183.2
67.5°	158.0	160.2	163.3	160.2	162.2
70°	130.9	132.9	135.1	135.1	135.1
72.5°	114.1	116.2	117.2	117.2	117.2
75°	104.7	105.8	106.8	104.7	104.7
77.5°	98.4	98.4	96.3	95.3	94.2
80°	89.0	87.9	84.8	82.7	82.7
82.5°	74.3	72.2	70.1	67.0	67.0
85°	56.6	54.4	52.4	48.2	46.0
87.5°	29.3	30.3	29.3	24.1	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)