

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: P180867

Luminaire Tested: **ICM-E02-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180867
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-E02-LED-E1-SL4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5019.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

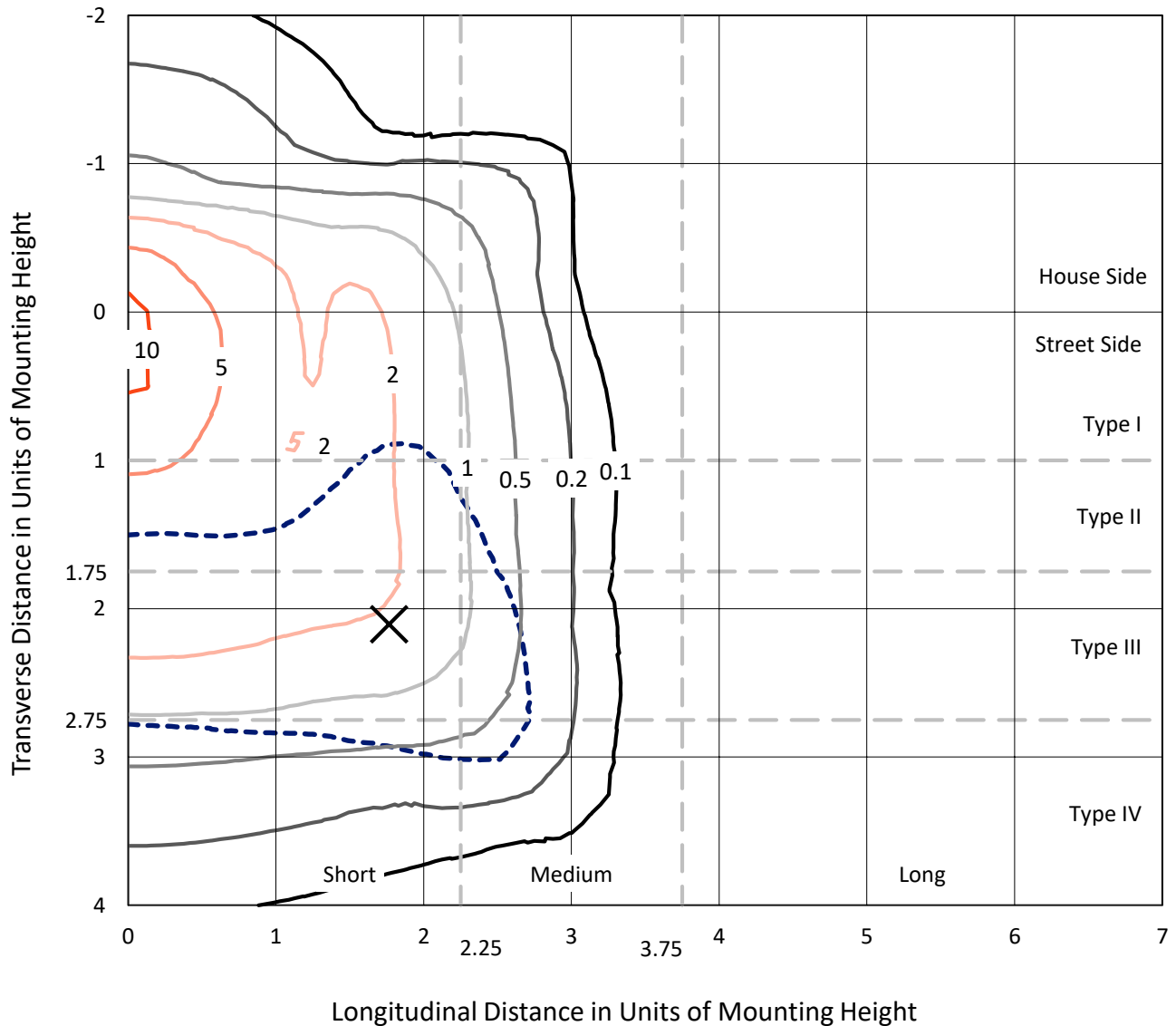
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180867
 CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

Iso-Footcandle Lines of Horizontal Illumination

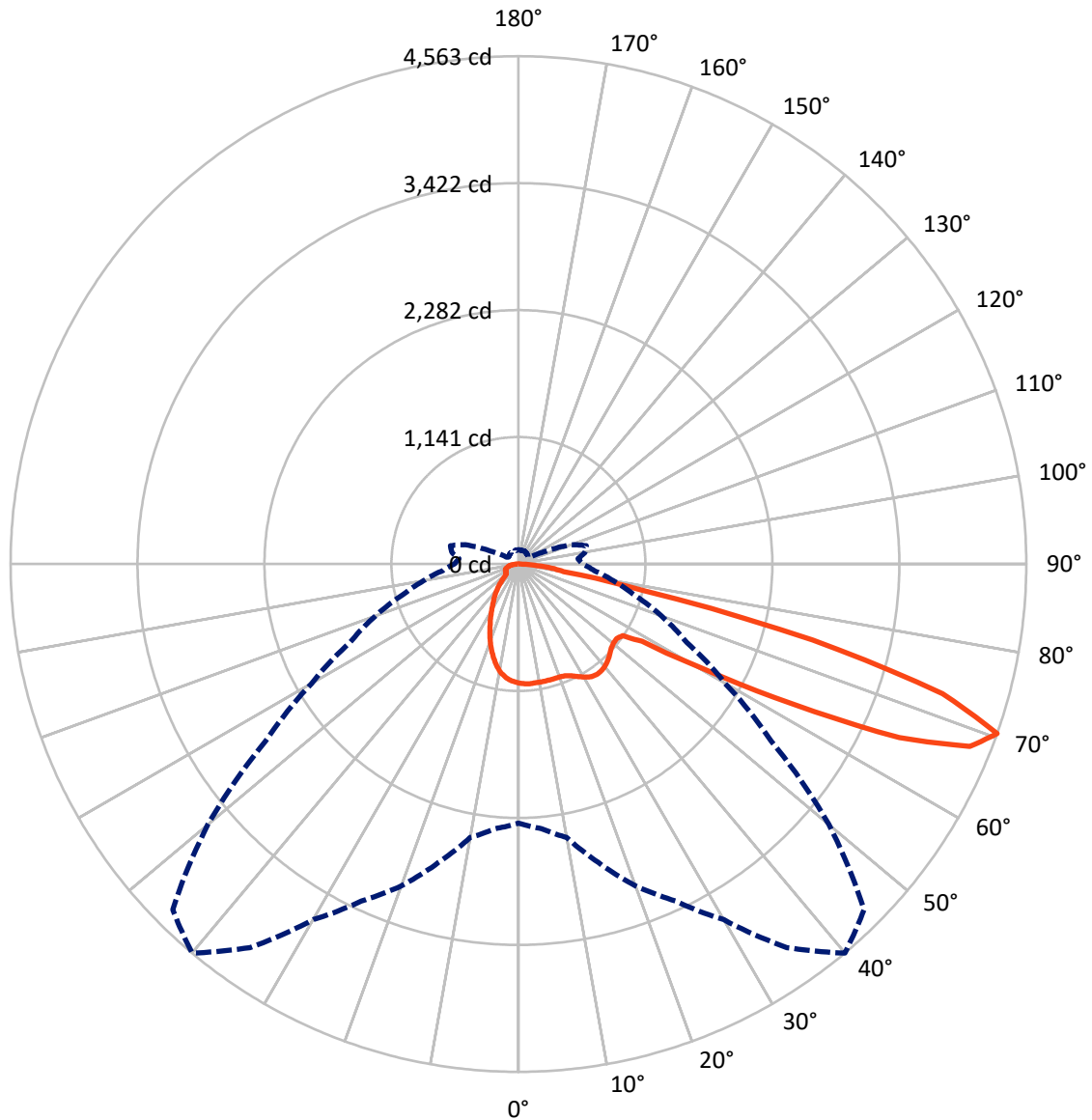
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P180867
CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180867

CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1042.1	0.0	1042.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	3977.8	0.0	3977.8
	% Fixture	79.2	0.0	79.2
Total	Lumens	5019.8	0.0	5019.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	2.0
10°-20°	273.9	5.5
20°-30°	405.5	8.1
30°-40°	512.5	10.2
40°-50°	579.6	11.5
50°-60°	824.7	16.4
60°-70°	1536.0	30.6
70°-80°	704.0	14.0
80°-90°	83.6	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°	5019.8	100.0
0°-180°	5019.8	100.0

Coefficient of Utilization



REPORT NUMBER: P180867

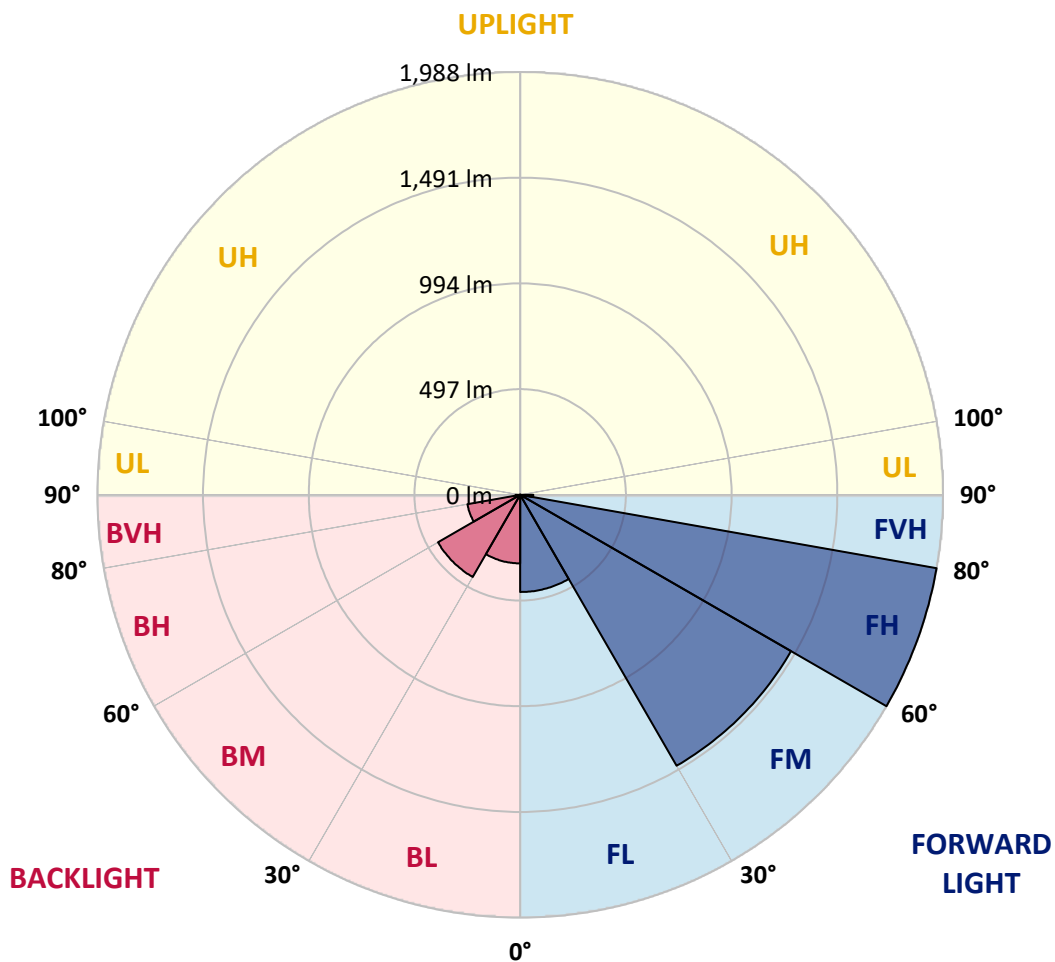
CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	457.1	9.1			
FM (30°-60°)	1470.6	29.3			
FH (60°-80°)	1988.1	39.6			G2/5000
FVH (80°-90°)	62.0	1.2			G1/100
BL (0°-30°)	322.4	6.4	B1/500		
BM (30°-60°)	446.1	8.9	B1/1000		
BH (60°-80°)	251.9	5.0	B1/500		G1/500
BVH (80°-90°)	21.6	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





REPORT NUMBER: P180867

CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1
2.5°	1087.5	1090.3	1087.0	1086.4	1086.4	1085.9	1082.4	1081.9	1077.3	1077.9	1079.1
5°	1095.4	1096.6	1094.3	1093.8	1092.7	1090.3	1087.5	1084.1	1080.8	1077.3	1074.5
7.5°	1103.4	1102.2	1100.6	1100.6	1098.9	1095.4	1089.8	1085.3	1077.9	1074.0	1068.8
10°	1114.7	1113.0	1110.8	1109.6	1106.8	1101.7	1093.8	1087.5	1078.4	1070.5	1062.1
12.5°	1125.5	1124.9	1121.5	1119.8	1115.3	1110.1	1100.6	1090.9	1079.1	1066.6	1055.3
15°	1144.8	1142.5	1139.1	1135.6	1128.3	1121.5	1106.8	1095.4	1078.4	1062.1	1044.5
17.5°	1178.1	1174.2	1170.8	1163.4	1154.3	1142.5	1120.9	1101.7	1078.4	1054.7	1034.9
20°	1239.4	1230.8	1226.3	1216.7	1200.8	1179.3	1145.9	1114.7	1080.2	1049.6	1023.0
22.5°	1308.5	1302.8	1296.6	1290.3	1265.4	1234.2	1188.9	1142.5	1090.3	1047.4	1013.3
25°	1386.1	1378.7	1375.3	1364.5	1341.3	1305.6	1243.8	1179.3	1113.6	1056.4	1013.3
27.5°	1455.2	1452.8	1452.3	1439.8	1417.8	1375.8	1302.8	1225.2	1145.3	1075.1	1021.9
30°	1518.1	1515.7	1514.6	1507.8	1482.3	1432.5	1353.2	1266.0	1179.8	1101.1	1037.7
32.5°	1584.8	1577.5	1574.1	1561.0	1532.2	1473.9	1383.2	1292.6	1207.1	1126.6	1055.3
35°	1639.3	1633.0	1626.2	1607.5	1566.7	1497.6	1396.2	1301.7	1217.8	1140.8	1064.3
37.5°	1678.9	1672.7	1663.0	1639.3	1588.8	1505.6	1395.6	1298.8	1213.9	1138.5	1066.1
40°	1696.5	1690.2	1680.0	1650.0	1592.8	1501.0	1384.9	1285.8	1202.0	1126.6	1059.2
42.5°	1689.6	1685.1	1672.1	1643.2	1580.3	1480.7	1363.4	1261.4	1179.3	1107.4	1043.9
45°	1663.5	1660.2	1647.7	1617.1	1552.0	1447.7	1331.6	1230.8	1152.1	1083.5	1023.5
47.5°	1624.5	1623.4	1610.9	1580.8	1516.3	1414.9	1298.8	1200.8	1124.9	1060.4	1006.5
50°	1581.4	1575.8	1569.6	1541.8	1482.9	1386.6	1275.0	1182.1	1109.6	1051.8	999.2
52.5°	1554.2	1552.6	1546.9	1522.0	1465.3	1370.1	1264.3	1175.4	1108.5	1050.1	995.2
55°	1795.5	1799.5	1747.5	1639.3	1544.1	1415.5	1296.6	1209.9	1136.3	1077.3	1037.1
57.5°	2655.9	2638.4	2548.9	2334.2	2091.8	1771.7	1541.2	1401.3	1310.1	1320.3	1340.8
60°	3094.3	3091.0	3074.5	2991.3	2829.9	2586.2	2316.1	2006.2	1907.7	1918.4	1926.4
62.5°	3290.3	3295.5	3307.9	3276.8	3234.3	3163.5	3028.7	2904.0	2772.1	2722.8	2590.8
65°	3381.0	3390.1	3418.3	3435.9	3452.3	3464.8	3518.1	3664.2	3760.5	3580.4	3161.2
67.5°	3193.5	3237.1	3330.5	3421.8	3503.3	3619.5	3799.6	4138.8	4375.0	4153.6	3545.8
70°	2328.0	2387.5	2494.5	2776.6	3078.0	3341.3	3690.3	4206.8	4563.1	4392.0	3641.0
72.5°	1459.6	1476.1	1523.6	1627.4	1851.1	2189.2	2799.3	3574.2	3985.3	3848.9	3077.4
75°	926.1	931.7	930.1	953.9	991.8	1065.4	1306.7	2111.1	2730.2	2517.2	1715.1
77.5°	551.7	560.2	563.6	571.0	589.1	615.2	635.0	718.2	1144.8	1111.4	622.5
80°	462.2	469.0	463.4	461.7	450.3	442.4	452.0	442.4	410.7	395.4	364.2
82.5°	244.7	244.1	242.4	258.9	292.3	318.3	338.1	333.6	301.9	257.1	218.0
85°	134.2	138.8	138.8	144.5	139.3	139.9	144.5	152.4	141.0	117.9	96.3
87.5°	11.3	17.6	14.1	17.6	23.8	17.0	16.5	16.5	14.1	10.2	9.0
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: P180867

CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1
2.5°	1076.2	1075.1	1072.8	1071.1	1071.1	1068.3	1066.6	1065.4	1064.8	1062.6	1062.6
5°	1072.8	1068.8	1064.8	1062.1	1060.4	1057.5	1052.9	1050.7	1047.9	1045.6	1044.5
7.5°	1065.4	1058.1	1051.8	1047.4	1041.7	1037.1	1031.4	1026.3	1021.2	1019.0	1017.9
10°	1054.1	1044.5	1034.9	1026.3	1018.4	1010.5	1003.2	995.7	989.5	985.0	980.5
12.5°	1043.4	1028.7	1016.2	1003.7	991.3	981.6	971.4	960.7	951.6	943.1	940.8
15°	1028.7	1011.6	995.7	980.5	965.2	949.3	936.8	924.9	910.2	900.7	893.2
17.5°	1015.0	994.6	975.4	957.2	938.5	922.1	903.4	887.5	872.8	858.1	847.4
20°	1000.3	978.2	957.9	937.4	917.0	896.1	874.5	854.1	836.0	818.5	800.9
22.5°	987.3	964.7	944.7	922.7	900.0	876.3	851.4	825.9	804.8	782.2	761.9
25°	979.4	954.4	934.1	912.5	887.5	861.5	833.2	803.2	777.7	751.6	727.3
27.5°	979.4	947.1	926.1	904.6	879.1	851.4	820.2	787.4	758.4	729.6	699.5
30°	987.8	948.2	919.9	897.2	871.2	841.1	806.6	772.0	740.3	706.3	677.4
32.5°	995.7	950.4	915.4	886.4	856.5	827.0	791.8	755.1	719.9	687.6	657.0
35°	1000.8	950.4	906.8	870.1	836.0	807.2	772.6	735.8	700.1	668.4	640.1
37.5°	1001.4	946.0	893.2	851.4	815.6	785.6	752.7	718.2	684.3	654.8	631.0
40°	995.7	936.8	879.6	831.5	794.1	763.5	733.5	702.3	671.8	647.4	627.1
42.5°	985.6	927.3	866.6	815.6	776.6	744.8	717.1	690.4	663.8	642.9	625.9
45°	970.2	914.2	854.7	806.1	767.5	734.1	706.9	684.8	662.1	644.6	627.6
47.5°	956.7	909.7	858.7	812.3	772.0	737.5	709.8	691.1	673.5	661.6	638.3
50°	953.9	907.4	860.4	817.3	776.6	741.5	717.1	707.4	702.3	695.0	659.4
52.5°	946.0	906.8	872.8	849.0	823.0	806.6	781.1	790.1	784.5	758.4	693.9
55°	1029.2	1040.5	1072.2	1117.6	1159.4	1169.1	1166.2	1155.5	1098.3	944.7	777.1
57.5°	1414.9	1478.9	1539.0	1565.6	1562.1	1532.2	1510.6	1467.1	1384.4	1197.4	941.4
60°	1950.8	1960.9	1929.2	1882.2	1802.9	1736.7	1665.9	1584.3	1464.2	1281.2	1042.2
62.5°	2444.1	2307.1	2166.0	2033.5	1912.8	1807.5	1708.9	1595.1	1438.7	1247.8	1029.2
65°	2792.5	2502.4	2279.8	2089.5	1919.1	1771.7	1648.8	1501.0	1324.8	1152.7	953.9
67.5°	2972.0	2527.4	2185.8	1920.8	1678.9	1475.0	1311.3	1167.4	1036.6	961.2	834.9
70°	2771.5	2145.0	1669.2	1369.6	1080.2	866.1	684.3	574.3	536.4	607.7	632.1
72.5°	2065.2	1396.2	992.9	768.1	588.5	469.0	359.7	282.6	230.0	241.3	313.2
75°	976.5	602.7	426.0	324.0	257.7	213.6	174.4	159.7	133.7	111.0	104.2
77.5°	380.1	277.0	228.8	167.6	119.0	95.7	81.6	78.7	80.5	78.1	77.0
80°	289.4	196.0	122.9	90.0	77.6	68.6	60.7	58.3	59.4	62.3	65.1
82.5°	161.4	100.8	74.8	65.1	58.3	49.9	45.3	42.0	42.5	45.9	52.1
85°	62.3	48.7	44.7	43.1	40.2	32.3	27.7	28.3	32.3	38.5	38.5
87.5°	6.8	6.8	9.0	6.8	6.8	6.8	6.2	7.3	7.9	10.2	11.9
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: P180867

CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1	1071.1
2.5°	1061.5	1061.5	1061.5	1060.4	1060.9	1058.6	1058.6	1056.9	1059.8	1058.1	1057.5
5°	1045.0	1044.5	1042.2	1042.2	1042.2	1042.2	1043.9	1039.4	1042.8	1042.8	1041.1
7.5°	1017.3	1017.3	1011.1	1014.4	1013.3	1015.0	1017.3	1015.0	1018.4	1020.7	1019.0
10°	978.8	978.8	973.7	977.7	975.9	979.9	983.9	981.6	983.9	987.3	988.4
12.5°	936.3	934.1	929.5	931.2	931.2	933.5	935.2	938.0	940.8	945.4	947.6
15°	887.0	883.6	878.0	878.0	874.5	875.7	879.1	880.2	885.9	892.1	899.4
17.5°	836.6	828.1	821.9	814.5	808.8	813.4	817.3	820.2	824.7	834.3	839.4
20°	789.0	772.0	760.1	750.5	744.3	747.1	752.2	755.6	759.5	761.9	763.5
22.5°	742.1	722.8	706.3	694.4	684.3	687.1	684.8	683.1	686.0	678.6	678.1
25°	701.2	678.6	656.5	642.3	629.9	625.9	614.0	611.2	603.3	597.0	592.5
27.5°	671.8	642.3	618.0	601.6	581.7	567.0	551.7	536.4	527.9	517.7	512.7
30°	648.6	617.4	588.5	560.7	534.7	512.0	491.6	471.8	458.2	443.5	433.9
32.5°	627.1	598.1	563.0	525.1	490.0	464.5	437.9	415.2	393.7	374.4	360.3
35°	612.3	580.0	535.3	488.8	449.2	419.2	390.8	358.5	332.5	307.5	292.3
37.5°	604.4	564.7	509.8	458.2	414.0	380.1	344.9	307.5	275.8	252.7	229.4
40°	598.1	549.4	487.2	431.1	384.6	343.8	303.1	258.9	223.7	199.4	181.2
42.5°	591.4	532.5	467.3	409.5	358.0	310.4	261.1	214.1	180.7	163.7	155.7
45°	584.0	517.7	448.6	389.1	331.9	274.1	217.5	173.9	154.0	148.4	148.4
47.5°	582.2	508.1	435.0	369.3	302.5	232.2	177.3	150.1	144.5	145.6	147.8
50°	589.1	505.2	423.1	346.0	263.4	188.1	150.1	141.0	142.1	145.6	148.9
52.5°	605.5	507.5	410.7	313.8	216.9	155.2	138.8	138.2	141.6	146.7	150.1
55°	633.3	507.5	386.9	265.7	173.3	139.3	134.8	137.1	141.6	146.1	148.9
57.5°	692.7	502.4	344.9	212.4	145.0	133.7	133.7	136.5	140.5	145.0	147.3
60°	763.5	495.6	286.0	164.3	130.9	129.1	133.1	136.5	139.9	143.9	146.1
62.5°	768.1	478.0	226.6	135.9	123.4	126.3	132.6	137.1	138.2	141.0	143.9
65°	705.8	416.9	180.1	121.8	120.1	124.7	130.9	134.2	134.8	135.9	138.8
67.5°	618.0	339.8	145.6	115.0	116.7	121.8	125.2	128.0	129.7	132.6	133.1
70°	507.5	273.0	124.7	108.2	109.9	115.5	118.4	121.2	124.7	128.0	126.3
72.5°	359.7	212.4	109.3	100.8	103.1	108.2	111.6	113.9	116.7	120.1	117.9
75°	152.9	148.4	94.6	91.2	94.6	98.0	101.4	104.7	107.6	109.3	109.3
77.5°	78.1	87.3	81.6	81.6	83.8	87.3	90.0	93.5	95.2	96.8	99.2
80°	66.2	67.4	68.6	70.8	73.0	76.5	79.3	82.1	82.7	83.3	84.4
82.5°	55.0	57.2	58.3	61.8	63.4	64.6	66.2	66.2	67.4	67.4	65.7
85°	39.6	42.5	44.2	44.7	44.2	44.7	45.3	46.4	49.3	49.3	47.0
87.5°	11.3	10.8	13.6	14.1	15.3	17.6	19.8	23.8	24.9	26.0	26.0
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: P180867

CATALOG NUMBER: ICM-E02-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1071.1	1071.1	1071.1	1071.1
2.5°	1056.9	1058.1	1055.8	1056.4
5°	1041.1	1043.4	1040.5	1043.9
7.5°	1020.7	1024.1	1023.5	1023.0
10°	991.3	995.7	995.7	997.5
12.5°	953.9	956.7	959.0	960.1
15°	903.4	908.6	911.4	911.4
17.5°	842.8	846.2	847.9	845.7
20°	765.8	764.7	765.2	759.5
22.5°	676.8	678.6	673.5	674.6
25°	589.7	586.8	589.1	585.7
27.5°	505.2	505.8	499.5	502.4
30°	424.8	422.0	414.0	418.0
32.5°	347.3	339.8	331.4	326.2
35°	274.1	262.8	258.9	257.1
37.5°	215.3	202.8	198.8	194.3
40°	171.1	166.5	164.8	166.0
42.5°	153.5	153.5	154.6	155.2
45°	148.9	150.7	152.4	152.9
47.5°	149.5	151.3	153.5	154.0
50°	150.7	152.4	154.0	154.6
52.5°	151.3	151.3	152.4	152.9
55°	150.1	149.5	150.1	150.7
57.5°	147.8	146.7	147.3	148.9
60°	146.7	145.0	146.1	147.3
62.5°	143.9	143.3	144.5	145.0
65°	137.7	138.2	139.9	139.9
67.5°	132.0	132.6	133.1	133.7
70°	125.2	125.8	126.9	127.4
72.5°	117.2	119.5	121.2	123.4
75°	111.0	113.3	116.7	119.0
77.5°	100.3	102.0	106.0	108.7
80°	84.9	84.4	84.9	86.7
82.5°	65.1	65.1	64.6	64.0
85°	45.9	45.3	43.6	43.6
87.5°	24.9	24.4	23.8	22.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)