

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: P180468

Luminaire Tested: **ICM-E02-LED-E1-SL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180468  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
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-SL2  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5683.9 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

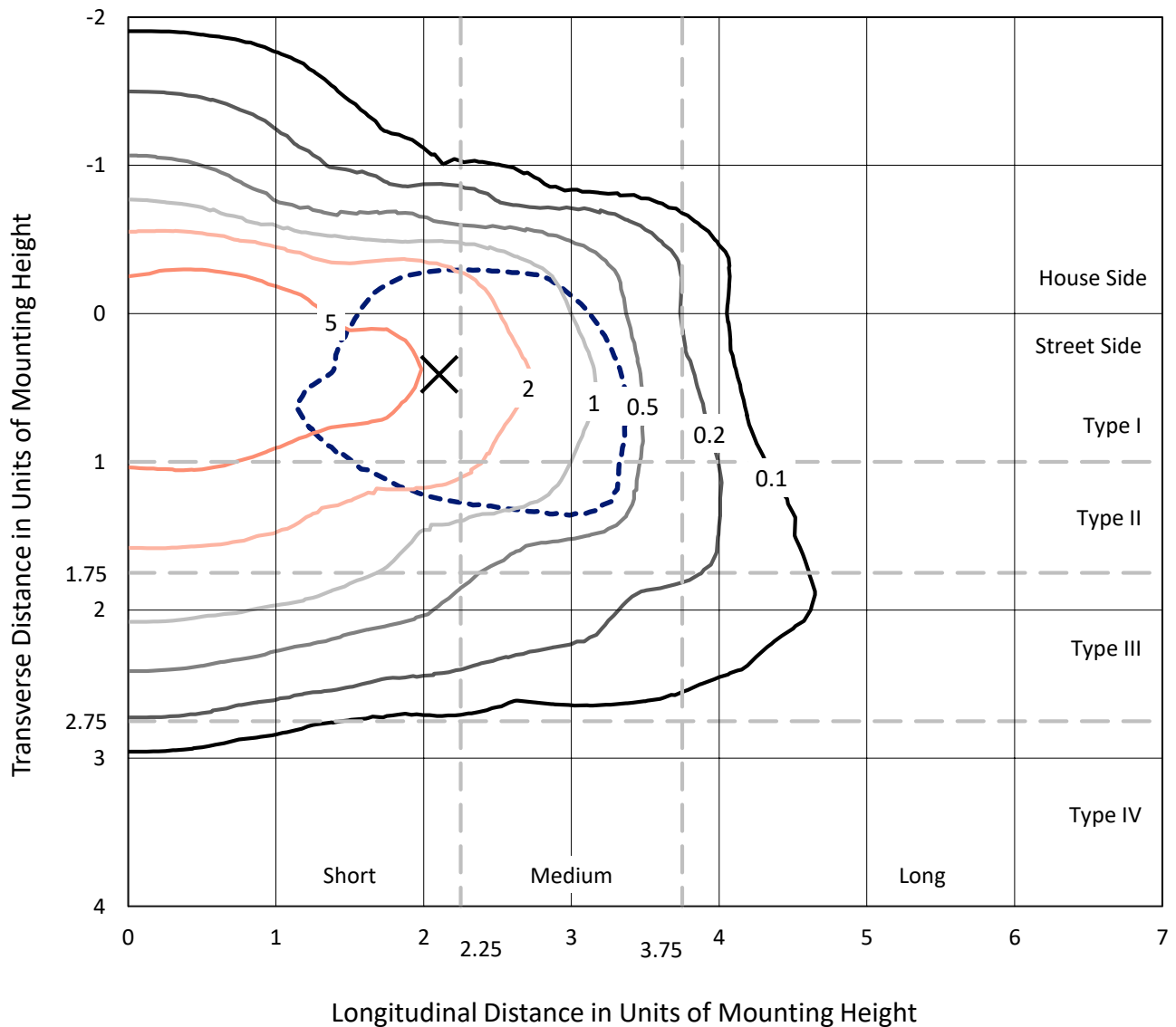
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

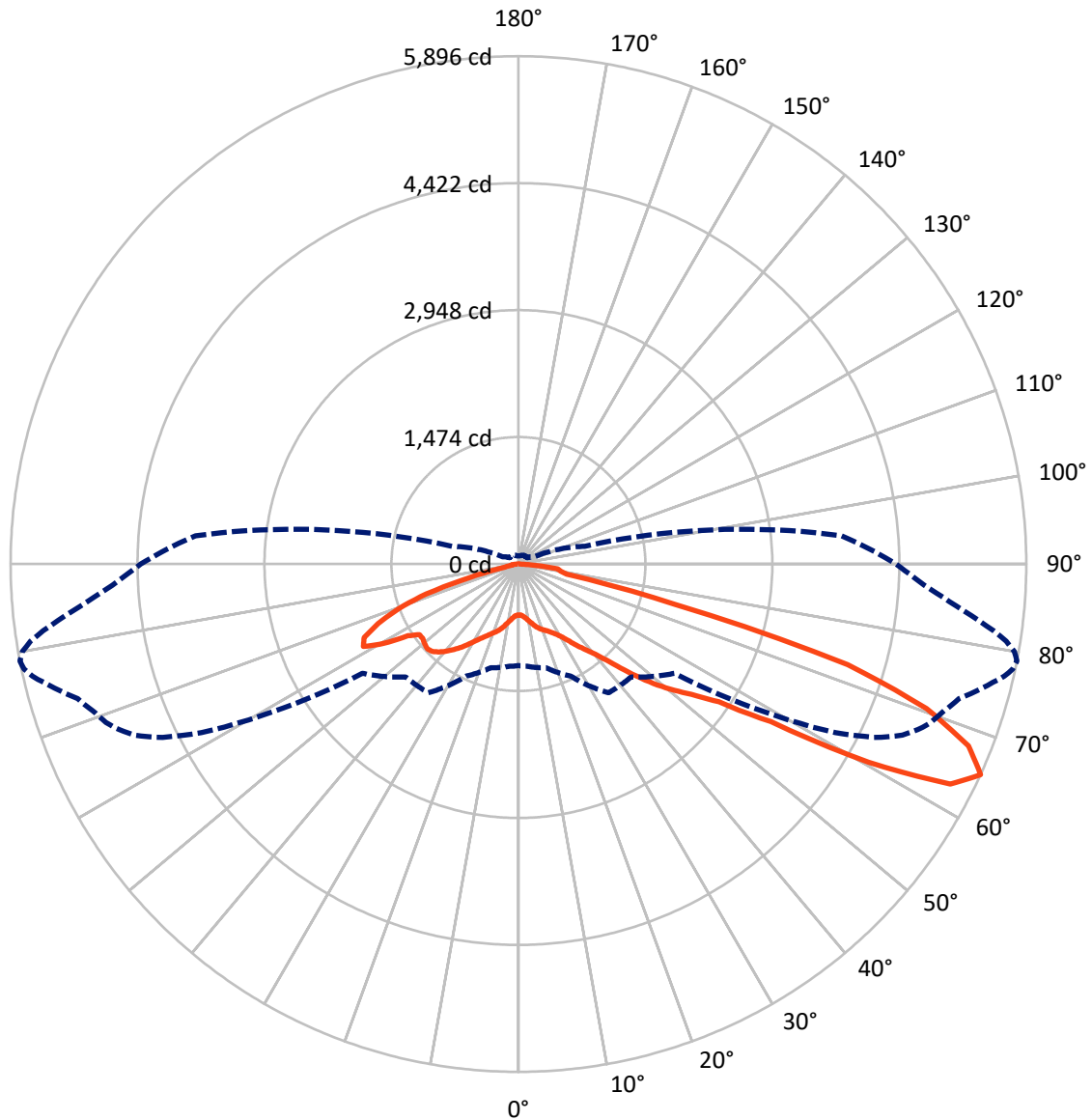
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1343.7	0.0	1343.7
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	4340.3	0.0	4340.3
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	5683.9	0.0	5683.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	1.0
10°-20°	192.3	3.4
20°-30°	332.2	5.8
30°-40°	549.8	9.7
40°-50°	932.5	16.4
50°-60°	1238.9	21.8
60°-70°	1600.4	28.2
70°-80°	671.2	11.8
80°-90°	107.8	1.9
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°	5683.9	100.0
0°-180°	5683.9	100.0



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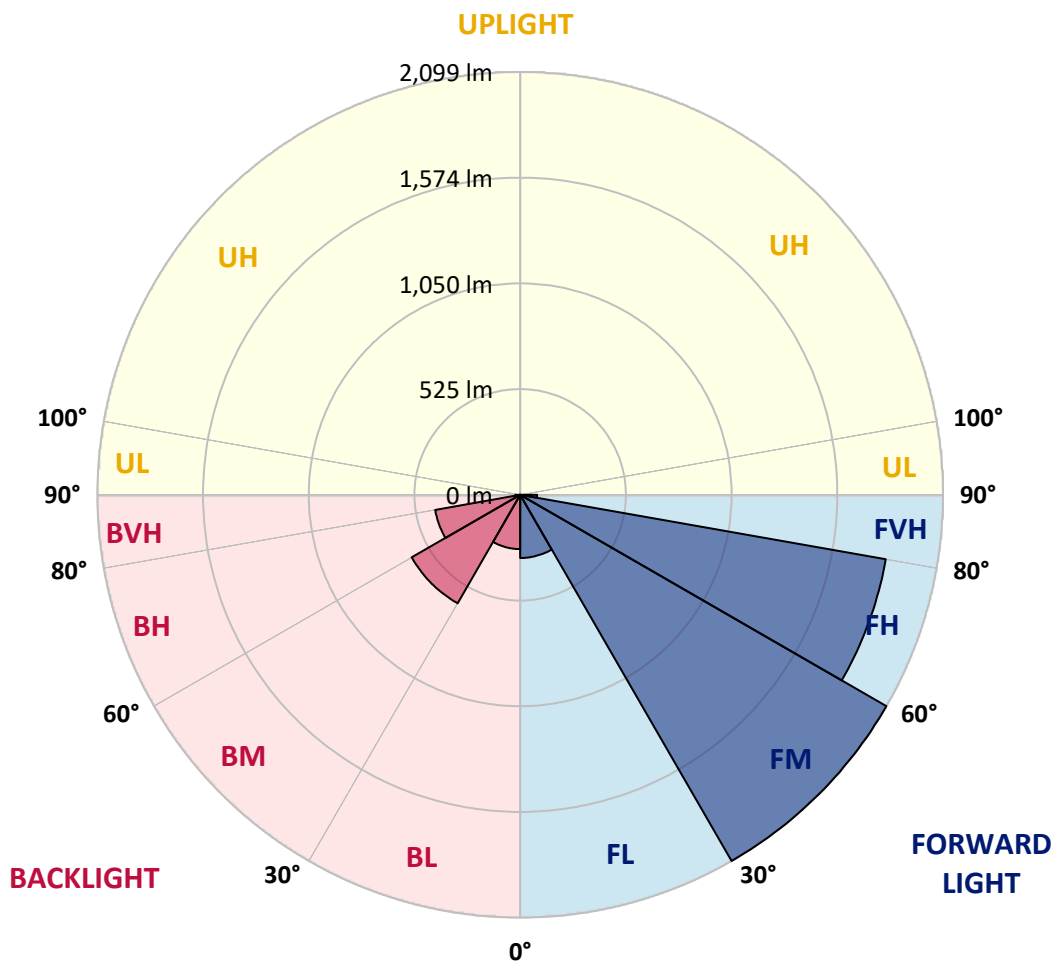
CATALOG NUMBER: ICM-E02-LED-E1-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.6	5.5			
FM	(30°-60°)	2099.2	36.9			
FH	(60°-80°)	1843.1	32.4			G2/5000
FVH	(80°-90°)	84.3	1.5			G1/100
BL	(0°-30°)	269.6	4.7	B1/500		
BM	(30°-60°)	622.0	10.9	B1/1000		
BH	(60°-80°)	428.5	7.5	B1/500		G1/500
BVH	(80°-90°)	23.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	589.8	591.6	590.4	591.6	592.8	593.5	594.7	594.1	594.1	594.7	593.5
5°	589.8	589.8	591.6	594.7	596.0	599.7	604.0	603.4	604.0	603.4	604.7
7.5°	602.1	601.6	603.4	607.2	608.4	614.0	621.4	622.6	623.9	623.9	625.8
10°	623.9	623.3	625.1	627.0	628.8	633.2	643.7	648.1	648.7	649.3	651.8
12.5°	651.2	650.5	648.1	648.1	647.4	655.5	669.8	677.9	679.1	681.6	683.4
15°	670.4	668.6	664.8	662.3	665.4	678.4	699.5	708.8	710.1	711.9	716.9
17.5°	689.0	687.2	679.1	672.8	677.2	698.3	726.8	736.7	739.3	741.1	746.7
20°	715.1	713.8	702.1	687.2	685.9	713.2	747.9	760.9	762.8	765.3	770.9
22.5°	754.7	749.1	735.5	707.6	694.0	721.9	762.8	780.7	783.3	785.8	793.2
25°	804.4	801.9	778.3	735.5	707.0	730.5	778.9	801.2	804.9	808.1	818.0
27.5°	855.8	852.1	826.7	770.9	730.0	747.9	804.4	829.8	834.7	839.7	849.0
30°	901.7	900.5	879.4	818.6	767.2	780.7	845.3	876.3	881.9	888.1	896.7
32.5°	1009.6	1010.2	988.6	926.5	857.0	840.3	904.2	950.7	953.2	960.7	976.1
35°	1216.1	1218.6	1210.5	1161.6	1083.4	1014.6	1020.8	1066.7	1069.1	1075.4	1090.2
37.5°	1354.4	1359.4	1384.2	1399.7	1360.0	1328.4	1249.6	1231.6	1233.5	1229.8	1226.7
40°	1430.7	1438.1	1503.3	1583.9	1627.3	1627.9	1593.8	1514.4	1484.0	1475.4	1438.1
42.5°	1474.1	1486.5	1578.9	1716.6	1841.2	1926.8	1947.9	1859.8	1837.5	1797.9	1726.5
45°	1502.6	1517.5	1626.7	1815.2	1998.8	2144.5	2254.2	2215.2	2200.3	2176.1	2110.4
47.5°	1497.7	1509.5	1623.0	1848.7	2081.2	2288.4	2483.1	2523.5	2505.4	2499.3	2454.6
50°	1407.2	1417.7	1533.0	1765.6	2036.0	2343.0	2628.2	2742.3	2742.3	2754.2	2740.5
52.5°	1310.4	1319.1	1423.9	1632.8	1889.6	2289.6	2708.9	2898.0	2922.8	2943.3	2975.6
55°	1273.8	1284.4	1363.7	1542.3	1764.9	2137.0	2736.1	3014.6	3060.5	3095.2	3168.4
57.5°	1291.2	1301.7	1358.1	1493.3	1691.8	1981.4	2737.4	3171.5	3260.2	3331.5	3479.7
60°	1366.2	1376.1	1423.3	1538.6	1672.6	1891.5	2684.7	3421.4	3562.8	3696.8	3943.6
62.5°	1331.5	1343.9	1412.8	1613.7	1815.8	1823.3	2494.2	3614.9	3842.5	4040.3	4432.9
65°	1179.5	1192.6	1246.5	1434.4	1824.5	1853.0	2212.1	3618.6	3901.4	4168.7	4592.3
67.5°	895.5	900.5	943.3	1094.0	1459.3	1885.9	1921.9	3190.1	3459.3	3757.5	4194.7
70°	457.7	466.3	478.8	604.0	939.5	1558.4	1651.5	2351.0	2694.0	3002.2	3527.5
72.5°	158.8	161.9	174.2	230.7	457.7	1022.6	1445.6	1611.2	1818.3	2106.7	2715.1
75°	95.5	95.5	99.8	116.6	209.0	532.7	1286.2	1316.0	1343.9	1440.7	1838.8
77.5°	75.6	76.9	76.9	80.0	116.0	273.5	976.8	1223.5	1227.3	1236.6	1303.5
80°	54.0	56.5	61.4	63.9	75.1	150.0	548.2	1074.1	1147.3	1182.6	1231.6
82.5°	40.3	42.8	52.1	55.2	58.3	83.7	246.2	741.1	874.4	945.1	1117.5
85°	18.0	21.1	35.3	39.1	40.9	44.7	115.3	210.9	242.5	272.3	359.1
87.5°	3.1	3.1	5.6	8.1	11.8	11.2	25.4	36.0	36.6	42.8	47.7
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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CATALOG NUMBER: ICM-E02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	593.5	593.5	593.5	592.8	593.5	593.5	593.5	593.5	594.1	594.1	594.1
5°	606.5	605.3	605.9	605.9	605.9	605.3	606.5	605.9	606.5	608.4	607.7
7.5°	625.8	627.0	627.6	628.2	628.2	628.2	628.8	630.1	630.1	631.9	631.4
10°	654.2	653.7	654.2	656.1	658.0	658.6	660.5	659.8	661.1	663.5	666.1
12.5°	684.7	685.9	687.7	689.6	692.7	693.3	695.2	695.8	699.5	699.5	702.1
15°	718.8	719.4	723.1	723.7	727.4	728.7	731.8	733.0	737.4	738.0	740.5
17.5°	749.8	751.0	752.8	754.7	759.1	760.9	763.4	765.9	769.6	770.9	775.2
20°	774.6	777.0	777.7	781.4	785.1	787.6	790.1	792.6	796.3	798.1	802.5
22.5°	796.9	799.4	801.2	804.4	806.8	810.5	811.8	816.1	819.8	823.0	826.7
25°	821.1	824.8	826.7	832.3	834.1	837.9	840.9	845.3	850.2	854.0	858.9
27.5°	855.2	860.7	863.3	869.5	873.8	875.6	880.7	886.8	891.2	895.5	900.5
30°	902.3	912.8	914.7	919.1	927.2	928.4	934.6	939.5	946.3	950.7	955.1
32.5°	975.5	988.6	989.8	994.7	1001.6	1004.0	1009.0	1014.6	1025.1	1027.0	1033.8
35°	1087.7	1093.3	1098.3	1100.2	1105.8	1108.8	1112.6	1118.8	1129.3	1128.1	1135.5
37.5°	1222.3	1224.2	1224.8	1218.6	1219.8	1214.2	1221.1	1222.3	1226.1	1229.1	1236.6
40°	1414.6	1395.4	1392.8	1378.0	1363.1	1355.1	1351.9	1339.5	1342.6	1343.9	1350.1
42.5°	1695.5	1658.3	1627.3	1606.2	1569.6	1551.6	1527.5	1508.2	1493.3	1498.9	1501.4
45°	2051.5	1998.2	1948.6	1884.0	1836.3	1802.2	1759.4	1720.9	1703.5	1695.5	1705.4
47.5°	2406.8	2359.7	2301.4	2235.1	2159.4	2103.0	2031.6	1969.0	1925.6	1909.5	1918.2
50°	2713.8	2670.4	2626.3	2587.3	2499.3	2437.9	2340.5	2259.3	2191.0	2156.3	2147.0
52.5°	2968.7	2945.8	2922.2	2889.3	2818.6	2757.2	2679.7	2599.7	2509.1	2438.4	2414.2
55°	3196.3	3210.0	3198.2	3198.8	3170.9	3131.8	3066.1	3006.5	2943.3	2863.3	2829.8
57.5°	3528.1	3608.7	3624.9	3665.1	3685.0	3706.1	3724.7	3689.3	3673.2	3613.7	3614.3
60°	4050.9	4168.7	4271.0	4364.0	4440.3	4514.7	4592.9	4627.7	4666.1	4684.0	4745.4
62.5°	4607.2	4719.4	4871.9	4996.6	5066.7	5163.5	5248.4	5303.6	5371.2	5443.1	5536.8
65°	4744.9	4880.0	4976.1	5059.3	5128.7	5180.2	5226.7	5292.4	5348.9	5463.0	5573.3
67.5°	4391.9	4499.8	4587.9	4669.8	4723.7	4767.2	4808.7	4852.1	4948.9	5052.4	5163.5
70°	3770.0	3900.2	4045.9	4151.9	4178.6	4215.8	4255.6	4311.9	4360.3	4468.9	4553.2
72.5°	3028.9	3216.1	3339.6	3486.5	3518.2	3574.6	3597.0	3641.0	3649.6	3708.6	3730.9
75°	2111.0	2325.6	2449.6	2557.5	2578.6	2547.6	2560.0	2404.4	2364.7	2332.4	2306.3
77.5°	1393.5	1451.2	1471.0	1453.7	1370.5	1305.4	1236.0	1167.7	1175.2	1120.0	1023.3
80°	1239.1	1252.1	1234.1	1216.8	1169.0	1100.8	1038.1	974.2	942.6	909.1	859.5
82.5°	1205.6	1255.8	1261.4	1240.3	1202.5	1128.1	1052.4	957.5	876.9	802.5	726.8
85°	403.1	490.5	529.6	566.2	577.4	590.4	545.8	484.9	411.8	362.8	284.0
87.5°	51.4	63.9	73.8	63.3	73.8	86.8	62.6	70.0	70.7	44.0	32.8
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	594.7	594.1	594.1	594.1	593.5	594.1	594.1	594.1	594.1	594.1	593.5
5°	608.4	608.4	610.2	610.9	609.6	609.0	609.6	610.2	610.2	609.6	610.2
7.5°	633.8	634.4	635.6	637.5	636.3	636.9	637.5	636.9	638.8	639.4	638.8
10°	666.1	667.3	670.4	671.0	670.4	672.8	673.5	672.3	673.5	673.5	676.0
12.5°	703.3	704.5	708.2	709.5	710.7	711.4	713.2	713.8	715.6	716.9	718.8
15°	743.5	744.8	747.3	751.6	752.8	754.1	755.4	759.1	759.7	762.1	764.0
17.5°	777.7	779.5	783.3	786.3	788.2	791.4	792.6	796.9	798.1	801.9	804.9
20°	804.9	808.1	811.2	814.9	818.0	821.7	823.0	827.3	829.8	831.6	835.4
22.5°	829.8	833.5	837.9	842.1	844.7	849.6	851.4	853.3	858.9	861.4	865.1
25°	862.1	865.8	870.7	876.3	878.8	884.9	886.8	890.0	896.1	898.6	904.2
27.5°	906.1	911.0	914.7	920.3	923.4	927.7	932.1	935.8	941.4	945.1	951.4
30°	961.2	964.9	971.2	975.5	980.5	986.7	991.6	995.4	998.4	1004.0	1010.9
32.5°	1042.5	1043.1	1044.9	1055.5	1060.5	1065.4	1072.3	1075.4	1080.3	1085.9	1093.3
35°	1143.5	1149.1	1153.5	1158.4	1164.0	1169.6	1172.1	1181.4	1185.8	1193.2	1200.7
37.5°	1244.0	1244.7	1254.6	1257.7	1262.6	1268.2	1276.9	1286.2	1297.4	1304.8	1316.6
40°	1351.9	1356.9	1369.3	1375.5	1381.7	1395.4	1402.1	1417.0	1435.6	1446.2	1466.1
42.5°	1508.2	1515.6	1538.0	1547.9	1562.8	1585.1	1599.4	1619.8	1627.3	1652.8	1662.1
45°	1712.8	1735.8	1768.1	1789.1	1815.8	1840.0	1852.4	1861.7	1872.8	1892.8	1890.2
47.5°	1934.2	1964.0	2000.0	2043.5	2060.8	2089.3	2105.4	2123.5	2113.5	2108.6	2103.5
50°	2161.2	2196.0	2243.7	2282.8	2309.5	2326.8	2340.5	2338.0	2316.9	2305.8	2274.7
52.5°	2413.7	2434.2	2479.4	2512.9	2529.0	2532.8	2529.6	2511.0	2491.2	2455.8	2419.3
55°	2800.7	2791.4	2809.3	2824.9	2819.8	2837.2	2792.6	2775.2	2726.2	2680.3	2631.4
57.5°	3587.0	3599.4	3498.9	3453.7	3445.6	3461.7	3383.0	3373.0	3254.6	3239.7	3157.2
60°	4736.8	4797.5	4718.8	4674.7	4555.7	4516.6	4428.6	4391.9	4278.4	4186.7	4070.7
62.5°	5601.2	5656.5	5689.3	5626.7	5557.2	5454.9	5321.6	5174.0	5053.7	4912.9	4790.1
65°	5679.4	5791.0	5866.7	5895.9	5846.8	5734.6	5570.3	5384.2	5200.0	5023.3	4868.2
67.5°	5314.2	5414.0	5531.2	5636.0	5642.2	5569.1	5428.9	5239.8	5027.0	4808.7	4627.0
70°	4686.5	4811.8	4914.2	5024.5	5101.4	5059.3	4989.1	4815.6	4594.7	4424.9	4215.8
72.5°	3811.5	3864.2	3889.0	3997.5	3998.8	3921.9	3872.3	3776.1	3598.2	3477.9	3318.4
75°	2225.8	2109.8	1986.3	1879.1	1791.6	1755.1	1592.6	1565.3	1456.1	1388.6	1289.3
77.5°	917.9	814.2	680.9	570.0	460.2	410.5	338.6	307.0	266.0	248.1	236.3
80°	787.0	689.0	588.6	492.4	406.8	321.2	250.0	194.1	152.6	129.6	120.3
82.5°	642.5	583.5	513.5	461.4	394.4	330.5	279.1	216.5	161.9	119.1	91.2
85°	231.9	190.4	153.2	140.7	112.3	92.4	77.5	66.3	54.6	43.4	38.4
87.5°	26.0	24.8	14.2	13.7	15.5	11.2	13.0	11.8	10.0	8.7	9.3
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: P180468

CATALOG NUMBER: ICM-E02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6	591.6
2.5°	593.5	593.5	594.1	594.1	594.7	595.4	596.6	596.0	596.0	596.6	596.6
5°	610.2	612.1	611.4	611.4	611.4	612.1	612.7	610.2	607.7	605.3	604.0
7.5°	639.4	640.7	641.9	640.7	641.9	641.2	640.0	633.2	625.1	615.2	608.4
10°	677.2	677.2	678.4	677.9	680.3	678.4	674.7	659.3	641.9	620.7	605.3
12.5°	718.1	722.5	720.7	721.2	726.2	721.2	712.6	689.6	658.6	624.5	597.2
15°	766.5	768.4	769.6	767.7	770.9	766.5	751.0	714.4	669.1	621.4	581.1
17.5°	806.2	806.8	807.4	808.7	813.0	808.1	781.4	731.8	671.6	607.2	553.8
20°	837.2	840.3	842.8	842.8	849.0	841.6	806.2	740.5	663.5	583.5	519.1
22.5°	869.5	871.9	875.1	875.6	883.7	876.3	826.7	738.6	642.5	550.0	478.8
25°	909.1	911.6	914.1	917.2	928.4	917.9	847.2	731.2	613.3	510.4	435.4
27.5°	955.1	960.7	962.5	967.4	980.5	964.4	864.5	720.0	581.1	464.5	389.5
30°	1016.5	1023.3	1025.8	1032.6	1050.5	1015.2	874.4	700.7	540.2	418.0	340.5
32.5°	1098.9	1108.2	1115.6	1123.1	1143.5	1066.1	875.6	672.8	492.4	365.9	293.3
35°	1206.8	1221.1	1226.7	1231.6	1250.9	1121.2	870.1	631.4	434.1	312.6	256.1
37.5°	1327.7	1342.1	1345.8	1348.2	1351.9	1168.4	856.5	568.1	368.4	266.0	226.3
40°	1476.6	1489.0	1494.0	1490.2	1470.4	1204.9	826.1	494.2	304.5	234.4	207.7
42.5°	1658.3	1676.9	1678.8	1662.1	1596.3	1225.4	765.3	407.4	254.2	211.4	193.5
45°	1883.5	1882.2	1871.6	1859.8	1733.3	1217.4	680.3	331.8	222.6	193.5	180.5
47.5°	2085.6	2064.5	2048.4	2013.7	1854.2	1170.2	570.5	274.7	203.4	179.8	169.3
50°	2251.2	2212.8	2178.6	2140.8	1944.2	1086.5	461.4	233.2	185.4	168.1	158.8
52.5°	2382.1	2335.5	2295.8	2258.6	2031.0	993.5	378.3	202.8	168.1	156.3	147.0
55°	2586.7	2540.2	2476.9	2436.0	2163.7	907.9	324.4	178.6	151.3	143.9	134.6
57.5°	3104.5	3063.6	2987.9	2881.9	2504.9	875.6	294.0	160.0	137.7	133.3	125.9
60°	4008.7	3942.3	3843.7	3735.8	3198.2	897.4	269.8	147.0	128.4	124.7	119.1
62.5°	4690.9	4574.3	4462.6	4362.8	3752.6	896.7	238.1	137.0	121.6	119.7	114.1
65°	4718.8	4600.3	4488.1	4383.3	3765.0	798.1	200.9	128.4	120.3	119.7	110.4
67.5°	4468.2	4339.8	4231.4	4099.3	3485.3	623.9	161.2	122.8	125.3	124.0	109.1
70°	4058.9	3891.5	3802.2	3671.9	3067.3	436.6	132.7	124.7	135.8	132.1	111.0
72.5°	3185.8	3059.3	2923.5	2832.9	2401.2	276.0	111.6	125.9	140.2	134.0	116.0
75°	1185.8	1219.8	1164.0	1144.2	1219.8	161.9	99.3	117.2	125.3	116.0	105.4
77.5°	239.4	228.8	217.0	214.6	277.2	99.8	91.2	101.7	96.1	84.9	85.6
80°	114.7	111.6	107.9	107.3	103.0	83.1	84.4	86.8	72.6	65.8	70.0
82.5°	76.3	71.9	70.7	68.2	69.5	74.4	80.0	74.4	55.8	52.1	63.3
85°	35.3	34.1	33.5	33.5	37.2	67.0	66.3	54.6	38.4	37.2	63.3
87.5°	8.7	8.7	9.3	8.7	10.0	19.8	17.4	16.7	14.2	16.1	29.8
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: P180468

CATALOG NUMBER: ICM-E02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	591.6	591.6	591.6
2.5°	596.0	596.6	596.0
5°	601.6	601.6	601.6
7.5°	601.6	599.7	599.1
10°	592.8	587.3	587.3
12.5°	578.0	568.7	567.4
15°	550.0	537.7	535.8
17.5°	514.7	498.0	494.9
20°	475.1	454.0	450.2
22.5°	431.6	407.4	405.6
25°	388.8	364.0	359.1
27.5°	341.1	316.9	314.4
30°	293.3	272.3	271.0
32.5°	253.0	240.0	237.5
35°	224.5	217.0	214.0
37.5°	205.9	200.3	199.7
40°	191.6	186.7	186.0
42.5°	179.8	175.5	174.9
45°	168.1	164.4	163.1
47.5°	156.3	152.6	151.9
50°	145.8	140.7	140.2
52.5°	135.8	130.9	129.6
55°	126.5	121.6	121.6
57.5°	118.4	113.5	112.8
60°	111.0	106.0	105.4
62.5°	105.4	99.3	98.6
65°	101.1	94.9	93.7
67.5°	98.6	91.2	89.3
70°	103.0	89.3	86.2
72.5°	103.5	87.4	83.1
75°	99.8	82.5	79.3
77.5°	87.4	73.8	70.7
80°	75.6	57.0	52.7
82.5°	71.9	46.5	40.3
85°	55.8	30.4	28.6
87.5°	31.6	16.7	13.7
90°	0.0	0.0	0.0

(END OF REPORT)