

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: P180477

Luminaire Tested: **ICM-E03-LED-E1-SL2-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180477  
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-E03-LED-E1-SL2-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7787.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2  
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

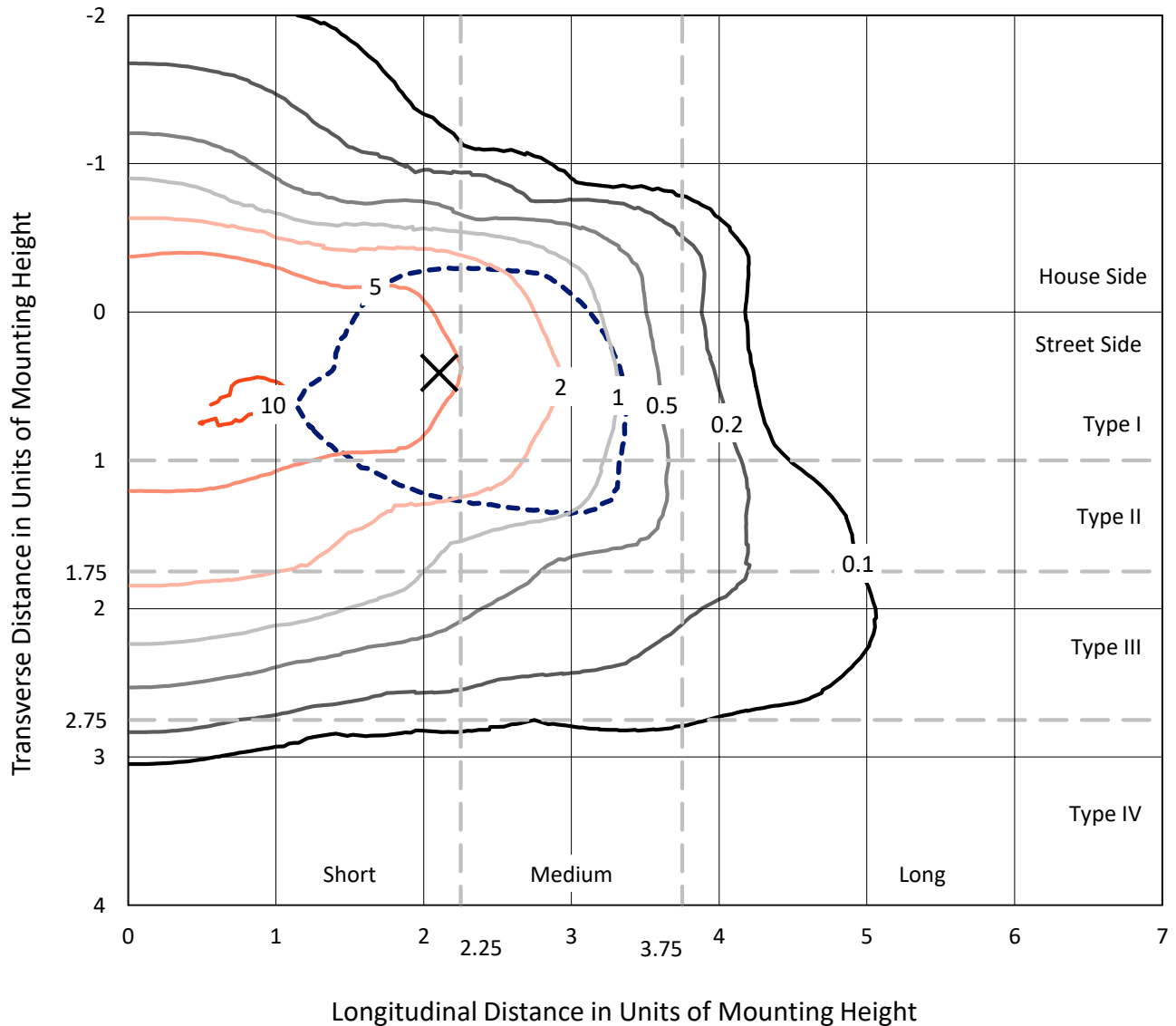


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### Iso-Footcandle Lines of Horizontal Illumination

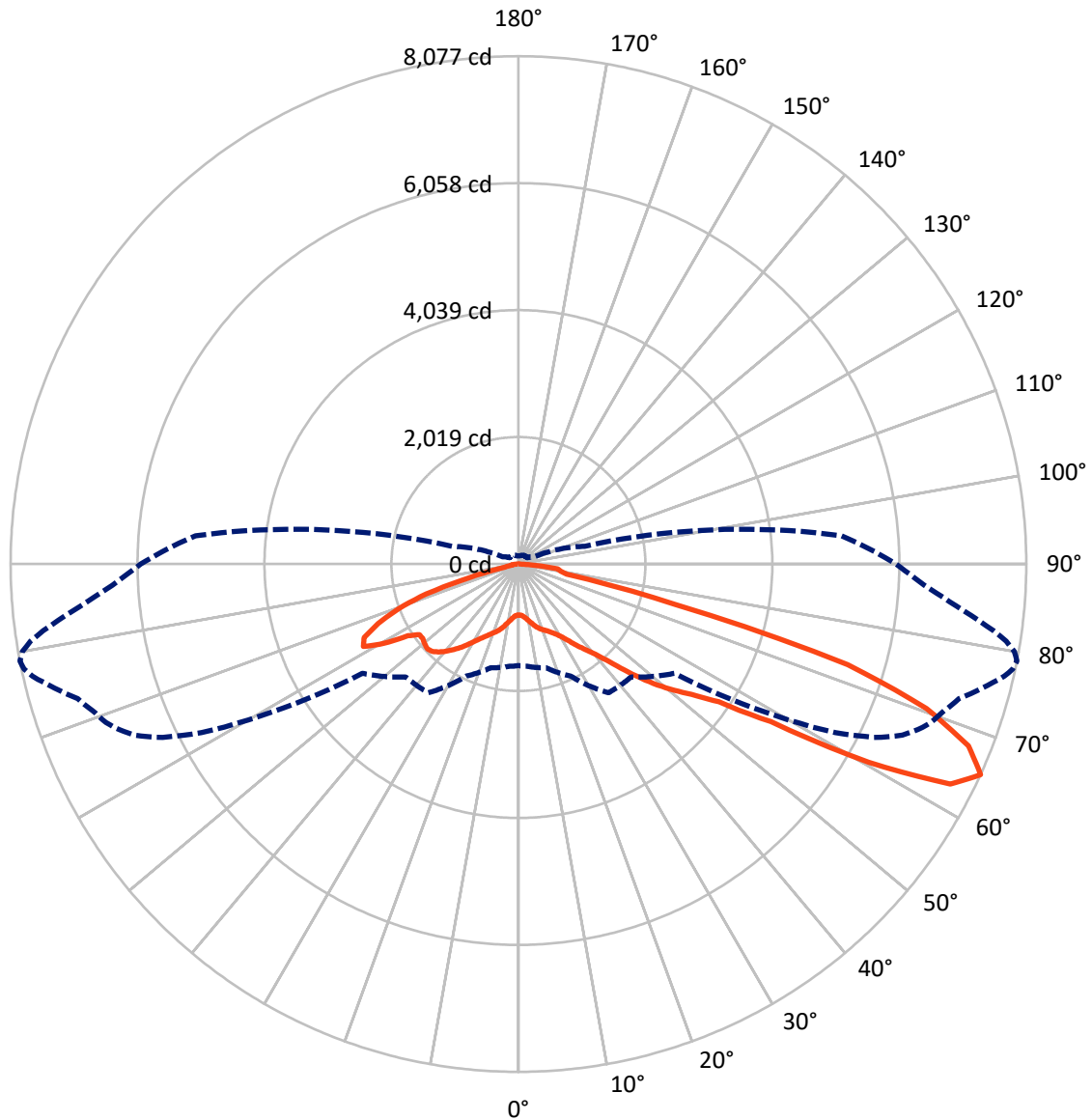
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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	1840.9	0.0	1840.9
	% Fixture	23.6	0.0	23.6
<b>Street Side</b>	Lumens	5946.3	0.0	5946.3
	% Fixture	76.4	0.0	76.4
<b>Total</b>	Lumens	7787.1	0.0	7787.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	1.0
10°-20°	263.5	3.4
20°-30°	455.1	5.8
30°-40°	753.3	9.7
40°-50°	1277.5	16.4
50°-60°	1697.4	21.8
60°-70°	2192.6	28.2
70°-80°	919.6	11.8
80°-90°	147.7	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°	7787.1	100.0
0°-180°	7787.1	100.0



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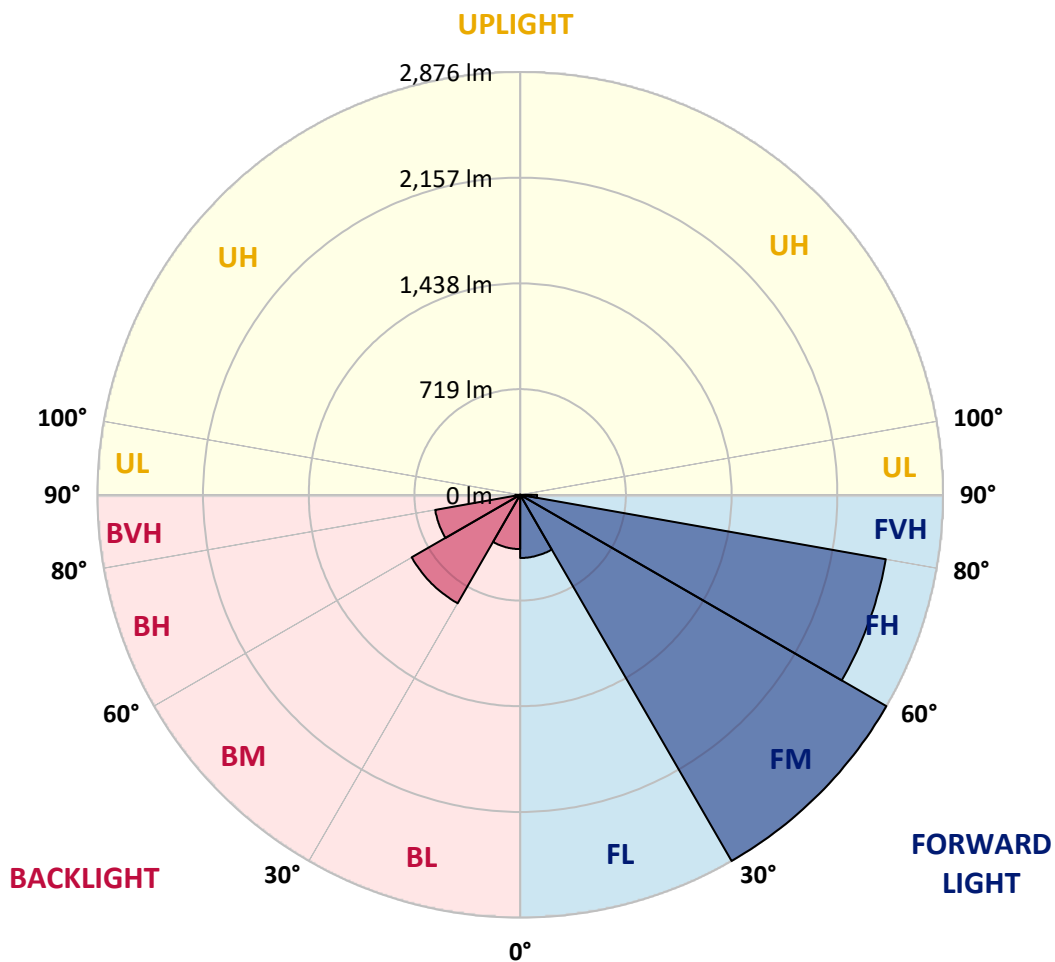
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.7	5.5			
FM (30°-60°)	2876.0	36.9			
FH (60°-80°)	2525.1	32.4			G2/5000
FVH (80°-90°)	115.5	1.5			G2/225
BL (0°-30°)	369.4	4.7	B1/500		
BM (30°-60°)	852.1	10.9	B1/1000		
BH (60°-80°)	587.1	7.5	B2/1000		G2/1000
BVH (80°-90°)	32.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	808.0	810.5	808.8	810.5	812.3	813.1	814.8	814.0	814.0	814.8	813.1
5°	808.0	808.0	810.5	814.8	816.5	821.6	827.5	826.7	827.5	826.7	828.4
7.5°	825.0	824.1	826.7	831.8	833.5	841.1	851.4	853.0	854.7	854.7	857.3
10°	854.7	853.9	856.5	859.0	861.5	867.4	882.0	887.9	888.7	889.6	892.9
12.5°	892.1	891.3	887.9	887.9	887.0	898.1	917.6	928.7	930.3	933.8	936.3
15°	918.4	915.9	910.8	907.4	911.6	929.5	958.4	971.2	972.8	975.4	982.1
17.5°	943.9	941.4	930.3	921.9	927.8	956.7	995.7	1009.4	1012.8	1015.4	1023.0
20°	979.6	978.0	961.8	941.4	939.7	977.1	1024.7	1042.5	1045.0	1048.5	1056.1
22.5°	1034.0	1026.3	1007.6	969.4	950.7	988.9	1045.0	1069.7	1073.1	1076.5	1086.7
25°	1102.0	1098.6	1066.3	1007.6	968.6	1000.8	1067.2	1097.7	1102.8	1107.1	1120.7
27.5°	1172.5	1167.4	1132.6	1056.1	1000.0	1024.7	1102.0	1136.8	1143.6	1150.4	1163.2
30°	1235.4	1233.7	1204.8	1121.5	1051.0	1069.7	1158.1	1200.6	1208.2	1216.7	1228.6
32.5°	1383.2	1384.0	1354.3	1269.3	1174.2	1151.3	1238.8	1302.5	1305.9	1316.1	1337.3
35°	1666.1	1669.5	1658.5	1591.4	1484.3	1390.0	1398.5	1461.4	1464.8	1473.2	1493.7
37.5°	1855.6	1862.4	1896.4	1917.6	1863.3	1819.9	1712.0	1687.4	1690.0	1684.8	1680.6
40°	1960.1	1970.3	2059.5	2170.0	2229.4	2230.2	2183.5	2074.8	2033.1	2021.3	1970.3
42.5°	2019.5	2036.6	2163.2	2351.8	2522.5	2639.8	2668.7	2548.0	2517.5	2463.1	2365.4
45°	2058.6	2079.1	2228.6	2486.9	2738.3	2938.1	3088.4	3034.9	3014.5	2981.3	2891.3
47.5°	2051.8	2068.0	2223.5	2532.8	2851.4	3135.2	3402.0	3457.1	3432.5	3424.0	3362.8
50°	1927.8	1942.2	2100.3	2418.9	2789.3	3209.9	3600.8	3757.0	3757.0	3773.2	3754.5
52.5°	1795.3	1807.2	1950.8	2237.1	2588.9	3136.9	3711.2	3970.3	4004.3	4032.4	4076.6
55°	1745.1	1759.5	1868.4	2113.0	2418.1	2927.8	3748.6	4130.1	4193.0	4240.5	4340.8
57.5°	1768.9	1783.4	1860.7	2045.9	2317.8	2714.6	3750.3	4345.0	4466.5	4564.2	4767.3
60°	1871.7	1885.3	1949.9	2107.9	2291.5	2591.4	3678.1	4687.5	4881.1	5064.7	5402.8
62.5°	1824.2	1841.1	1935.5	2210.7	2487.7	2497.9	3417.2	4952.5	5264.3	5535.4	6073.2
65°	1616.0	1633.9	1707.7	1965.2	2499.6	2538.7	3030.6	4957.6	5345.1	5711.2	6291.6
67.5°	1226.9	1233.7	1292.3	1498.8	1999.2	2583.7	2633.0	4370.5	4739.3	5147.9	5746.9
70°	627.1	638.9	655.9	827.5	1287.2	2135.1	2262.6	3220.9	3690.8	4113.0	4832.7
72.5°	217.5	221.8	238.8	316.1	627.1	1401.0	1980.5	2207.4	2491.1	2886.3	3719.7
75°	130.9	130.9	136.7	159.7	286.3	729.9	1762.2	1802.9	1841.1	1973.7	2519.2
77.5°	103.6	105.4	105.4	109.6	158.9	374.7	1338.1	1676.3	1681.4	1694.1	1786.0
80°	74.0	77.3	84.1	87.5	102.8	205.6	751.1	1471.5	1571.8	1620.3	1687.4
82.5°	55.3	58.6	71.3	75.6	79.9	114.7	337.3	1015.4	1198.0	1294.8	1531.1
85°	24.7	28.9	48.5	53.5	56.1	61.2	158.0	288.8	332.2	373.0	491.9
87.5°	4.3	4.3	7.6	11.1	16.2	15.3	34.8	49.3	50.1	58.6	65.4
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	813.1	813.1	813.1	812.3	813.1	813.1	813.1	813.1	814.0	814.0	814.0
5°	831.0	829.2	830.1	830.1	830.1	829.2	831.0	830.1	831.0	833.5	832.7
7.5°	857.3	859.0	859.8	860.7	860.7	860.7	861.5	863.3	863.3	865.8	864.9
10°	896.4	895.5	896.4	898.9	901.5	902.3	904.8	904.0	905.7	909.1	912.5
12.5°	938.0	939.7	942.2	944.7	949.0	949.9	952.5	953.3	958.4	958.4	961.8
15°	984.8	985.6	990.7	991.5	996.7	998.3	1002.6	1004.3	1010.2	1011.1	1014.4
17.5°	1027.2	1028.9	1031.4	1034.0	1039.9	1042.5	1045.9	1049.3	1054.4	1056.1	1062.1
20°	1061.2	1064.6	1065.4	1070.5	1075.6	1079.1	1082.4	1085.9	1090.9	1093.5	1099.4
22.5°	1091.8	1095.2	1097.7	1102.0	1105.4	1110.4	1112.2	1118.1	1123.2	1127.4	1132.6
25°	1124.9	1130.1	1132.6	1140.2	1142.8	1147.8	1152.1	1158.1	1164.8	1170.0	1176.8
27.5°	1171.6	1179.3	1182.7	1191.2	1197.1	1199.7	1206.5	1215.0	1220.9	1226.9	1233.7
30°	1236.2	1250.7	1253.2	1259.2	1270.2	1271.9	1280.4	1287.2	1296.6	1302.5	1308.5
32.5°	1336.5	1354.3	1356.0	1362.8	1372.2	1375.5	1382.3	1390.0	1404.5	1407.0	1416.4
35°	1490.2	1497.9	1504.7	1507.3	1514.9	1519.2	1524.3	1532.8	1547.2	1545.5	1555.6
37.5°	1674.6	1677.2	1678.1	1669.5	1671.3	1663.5	1672.9	1674.6	1679.7	1684.0	1694.1
40°	1938.1	1911.6	1908.3	1887.9	1867.5	1856.5	1852.2	1835.2	1839.5	1841.1	1849.7
42.5°	2322.9	2271.9	2229.4	2200.6	2150.4	2125.8	2092.7	2066.3	2045.9	2053.6	2056.9
45°	2810.6	2737.5	2669.5	2581.2	2515.7	2469.0	2410.4	2357.7	2334.0	2322.9	2336.5
47.5°	3297.4	3232.9	3152.9	3062.1	2958.4	2881.1	2783.4	2697.6	2638.2	2616.0	2627.9
50°	3718.0	3658.5	3598.2	3544.7	3424.0	3339.9	3206.5	3095.2	3001.8	2954.2	2941.4
52.5°	4067.2	4035.7	4003.5	3958.4	3861.6	3777.5	3671.3	3561.7	3437.6	3340.8	3307.6
55°	4379.0	4397.7	4381.5	4382.4	4344.2	4290.6	4200.6	4119.0	4032.4	3922.7	3876.9
57.5°	4833.6	4944.0	4966.1	5021.3	5048.5	5077.4	5102.9	5054.4	5032.4	4950.8	4951.7
60°	5549.8	5711.2	5851.4	5978.8	6083.4	6185.3	6292.4	6339.9	6392.6	6417.2	6501.4
62.5°	6311.9	6465.7	6674.7	6845.5	6941.5	7074.1	7190.5	7266.1	7358.6	7457.3	7585.5
65°	6500.5	6685.8	6817.4	6931.3	7026.5	7097.0	7160.7	7250.7	7328.0	7484.4	7635.7
67.5°	6017.1	6165.0	6285.6	6397.7	6471.7	6531.1	6588.0	6647.6	6780.0	6922.0	7074.1
70°	5165.0	5343.4	5543.0	5688.3	5724.9	5775.8	5830.2	5907.5	5973.8	6122.5	6238.0
72.5°	4149.6	4406.2	4575.3	4776.7	4819.9	4897.3	4927.8	4988.2	5000.1	5080.8	5111.4
75°	2892.1	3186.2	3356.0	3503.9	3532.8	3490.3	3507.3	3294.1	3239.6	3195.5	3159.7
77.5°	1909.1	1988.1	2015.4	1991.5	1877.7	1788.5	1693.3	1599.8	1610.1	1534.4	1401.9
80°	1697.6	1715.5	1690.8	1667.0	1601.6	1508.1	1422.2	1334.8	1291.4	1245.6	1177.6
82.5°	1651.7	1720.5	1728.2	1699.3	1647.5	1545.5	1441.9	1311.8	1201.4	1099.4	995.7
85°	552.3	672.1	725.6	775.7	791.0	808.8	747.6	664.4	564.2	497.0	389.1
87.5°	70.5	87.5	101.1	86.7	101.1	119.0	85.8	96.0	96.8	60.3	45.0
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	814.8	814.0	814.0	814.0	813.1	814.0	814.0	814.0	814.0	814.0	813.1
5°	833.5	833.5	836.0	836.9	835.2	834.3	835.2	836.0	836.0	835.2	836.0
7.5°	868.3	869.2	870.9	873.4	871.7	872.6	873.4	872.6	875.2	876.0	875.2
10°	912.5	914.2	918.4	919.3	918.4	921.9	922.7	921.0	922.7	922.7	926.1
12.5°	963.4	965.2	970.2	972.0	973.7	974.5	977.1	978.0	980.5	982.1	984.8
15°	1018.7	1020.4	1023.8	1029.8	1031.4	1033.1	1034.9	1039.9	1040.8	1044.2	1046.7
17.5°	1065.4	1068.0	1073.1	1077.3	1079.9	1084.1	1085.9	1091.8	1093.5	1098.6	1102.8
20°	1102.8	1107.1	1111.4	1116.4	1120.7	1125.8	1127.4	1133.4	1136.8	1139.4	1144.5
22.5°	1136.8	1141.9	1147.8	1153.8	1157.2	1164.0	1166.5	1169.1	1176.8	1180.1	1185.2
25°	1181.0	1186.1	1192.8	1200.6	1203.9	1212.5	1215.0	1219.3	1227.7	1231.1	1238.8
27.5°	1241.3	1248.1	1253.2	1260.8	1265.1	1271.1	1277.0	1282.1	1289.8	1294.8	1303.4
30°	1316.9	1322.1	1330.5	1336.5	1343.3	1351.7	1358.5	1363.6	1367.9	1375.5	1384.9
32.5°	1428.2	1429.1	1431.6	1446.1	1452.8	1459.6	1469.0	1473.2	1480.1	1487.7	1497.9
35°	1566.7	1574.3	1580.3	1587.1	1594.8	1602.4	1605.8	1618.5	1624.5	1634.7	1644.8
37.5°	1704.4	1705.2	1718.8	1723.1	1729.9	1737.5	1749.4	1762.2	1777.4	1787.6	1803.7
40°	1852.2	1859.0	1876.0	1884.5	1892.9	1911.6	1921.0	1941.4	1966.9	1981.3	2008.6
42.5°	2066.3	2076.5	2107.1	2120.7	2141.0	2171.6	2191.2	2219.3	2229.4	2264.3	2277.0
45°	2346.7	2378.2	2422.3	2451.2	2487.7	2520.9	2537.9	2550.6	2565.9	2593.0	2589.7
47.5°	2650.0	2690.8	2740.1	2799.6	2823.4	2862.4	2884.5	2909.1	2895.6	2888.8	2882.0
50°	2960.9	3008.6	3074.0	3127.5	3164.0	3187.8	3206.5	3203.1	3174.3	3158.9	3116.5
52.5°	3306.8	3334.8	3396.9	3442.7	3464.8	3469.9	3465.7	3440.2	3413.0	3364.6	3314.4
55°	3837.0	3824.2	3848.9	3870.1	3863.3	3887.1	3825.9	3802.1	3735.0	3672.1	3605.0
57.5°	4914.3	4931.3	4793.6	4731.6	4720.6	4742.6	4634.7	4621.1	4458.9	4438.4	4325.5
60°	6489.5	6572.8	6464.9	6404.5	6241.4	6187.9	6067.2	6017.1	5861.6	5735.8	5577.0
62.5°	7673.9	7749.5	7794.6	7708.7	7613.5	7473.3	7290.7	7088.5	6923.7	6730.8	6562.6
65°	7781.0	7933.9	8037.5	8077.4	8010.4	7856.6	7631.4	7376.5	7124.1	6882.0	6669.6
67.5°	7280.5	7417.3	7577.9	7721.4	7730.0	7629.7	7437.7	7178.6	6887.1	6588.0	6339.1
70°	6420.7	6592.3	6732.5	6883.8	6989.1	6931.3	6835.3	6597.4	6294.9	6062.2	5775.8
72.5°	5221.9	5294.1	5328.0	5476.8	5478.5	5373.1	5305.1	5173.4	4929.6	4764.8	4546.4
75°	3049.3	2890.4	2721.4	2574.4	2454.6	2404.5	2181.9	2144.5	1994.9	1902.3	1766.4
77.5°	1257.5	1115.5	932.9	780.8	630.4	562.4	463.9	420.6	364.5	339.8	323.7
80°	1078.1	943.9	806.3	674.6	557.4	440.1	342.4	266.0	209.0	177.6	164.8
82.5°	880.2	799.5	703.5	632.1	540.4	452.8	382.3	296.6	221.8	163.2	124.9
85°	317.8	260.8	209.9	192.8	153.8	126.6	106.2	90.9	74.8	59.4	52.7
87.5°	35.7	34.0	19.5	18.7	21.2	15.3	17.9	16.2	13.6	11.9	12.7
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):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	813.1	813.1	814.0	814.0	814.8	815.6	817.3	816.5	816.5	817.3	817.3
5°	836.0	838.6	837.8	837.8	837.8	838.6	839.4	836.0	832.7	829.2	827.5
7.5°	876.0	877.7	879.4	877.7	879.4	878.5	876.8	867.4	856.5	842.8	833.5
10°	927.8	927.8	929.5	928.7	932.0	929.5	924.4	903.2	879.4	850.5	829.2
12.5°	983.9	989.9	987.3	988.1	994.9	988.1	976.2	944.7	902.3	855.5	818.2
15°	1050.1	1052.7	1054.4	1051.8	1056.1	1050.1	1028.9	978.8	916.7	851.4	796.1
17.5°	1104.6	1105.4	1106.2	1107.9	1113.9	1107.1	1070.5	1002.6	920.2	831.8	758.7
20°	1147.0	1151.3	1154.6	1154.6	1163.2	1152.9	1104.6	1014.4	909.1	799.5	711.2
22.5°	1191.2	1194.6	1198.8	1199.7	1210.7	1200.6	1132.6	1011.9	880.2	753.6	655.9
25°	1245.6	1248.9	1252.4	1256.6	1271.9	1257.5	1160.6	1001.7	840.3	699.3	596.5
27.5°	1308.5	1316.1	1318.6	1325.4	1343.3	1321.2	1184.4	986.4	796.1	636.4	533.6
30°	1392.6	1401.9	1405.3	1414.6	1439.3	1390.9	1198.0	960.1	740.0	572.7	466.4
32.5°	1505.6	1518.3	1528.5	1538.7	1566.7	1460.5	1199.7	921.9	674.6	501.3	401.9
35°	1653.4	1672.9	1680.6	1687.4	1713.7	1536.1	1192.0	864.9	594.7	428.2	350.9
37.5°	1819.1	1838.6	1843.7	1847.1	1852.2	1600.8	1173.3	778.2	504.7	364.5	310.1
40°	2023.0	2040.0	2046.8	2041.7	2014.5	1650.8	1131.7	677.1	417.2	321.1	284.7
42.5°	2271.9	2297.4	2299.9	2277.0	2187.0	1678.9	1048.5	558.2	348.4	289.8	265.1
45°	2580.3	2578.6	2564.2	2548.0	2374.7	1667.8	932.0	454.5	305.0	265.1	247.3
47.5°	2857.3	2828.4	2806.3	2758.7	2540.4	1603.3	781.7	376.4	278.7	246.4	231.9
50°	3084.2	3031.5	2984.8	2932.9	2663.6	1488.6	632.1	319.4	254.0	230.2	217.5
52.5°	3263.5	3199.7	3145.3	3094.3	2782.5	1361.1	518.2	277.9	230.2	214.1	201.4
55°	3543.8	3480.1	3393.4	3337.3	2964.4	1243.8	444.4	244.7	207.4	197.1	184.4
57.5°	4253.2	4197.2	4093.5	3948.2	3431.6	1199.7	402.7	219.2	188.7	182.7	172.5
60°	5492.0	5401.1	5266.0	5118.2	4381.5	1229.4	369.6	201.4	175.9	170.8	163.2
62.5°	6426.6	6266.9	6114.0	5977.2	5141.1	1228.6	326.2	187.8	166.5	164.0	156.4
65°	6464.9	6302.6	6148.8	6005.2	5158.1	1093.5	275.3	175.9	164.8	164.0	151.3
67.5°	6121.6	5945.7	5797.1	5616.0	4774.9	854.7	220.9	168.2	171.6	170.0	149.5
70°	5560.9	5331.5	5209.1	5030.6	4202.3	598.1	181.9	170.8	186.0	180.9	152.1
72.5°	4364.6	4191.3	4005.1	3881.1	3289.8	378.0	152.9	172.5	192.0	183.5	158.9
75°	1624.5	1671.3	1594.8	1567.5	1671.3	221.8	135.9	160.6	171.6	158.9	144.5
77.5°	328.0	313.5	297.4	294.0	379.8	136.7	124.9	139.3	131.7	116.4	117.2
80°	157.2	152.9	147.8	147.0	141.0	113.9	115.5	119.0	99.4	90.0	96.0
82.5°	104.5	98.5	96.8	93.5	95.2	102.0	109.6	102.0	76.5	71.3	86.7
85°	48.5	46.7	45.9	45.9	51.0	91.7	90.9	74.8	52.7	51.0	86.7
87.5°	11.9	11.9	12.7	11.9	13.6	27.2	23.8	23.0	19.5	22.0	40.7
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: P180477

CATALOG NUMBER: ICM-E03-LED-E1-SL2-7030

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	810.5	810.5	810.5
2.5°	816.5	817.3	816.5
5°	824.1	824.1	824.1
7.5°	824.1	821.6	820.7
10°	812.3	804.6	804.6
12.5°	791.8	779.1	777.4
15°	753.6	736.7	734.1
17.5°	705.2	682.2	678.1
20°	650.8	622.0	616.8
22.5°	591.4	558.2	555.6
25°	532.7	498.7	491.9
27.5°	467.3	434.1	430.8
30°	401.9	373.0	371.3
32.5°	346.6	328.8	325.4
35°	307.5	297.4	293.1
37.5°	282.0	274.4	273.6
40°	262.5	255.7	254.9
42.5°	246.4	240.5	239.6
45°	230.2	225.1	223.4
47.5°	214.1	209.0	208.2
50°	199.6	192.8	192.0
52.5°	186.0	179.3	177.6
55°	173.3	166.5	166.5
57.5°	162.2	155.4	154.6
60°	152.1	145.3	144.5
62.5°	144.5	135.9	135.1
65°	138.5	130.0	128.3
67.5°	135.1	124.9	122.3
70°	141.0	122.3	118.1
72.5°	141.9	119.8	113.9
75°	136.7	113.0	108.7
77.5°	119.8	101.1	96.8
80°	103.6	78.1	72.2
82.5°	98.5	63.7	55.3
85°	76.5	41.7	39.1
87.5°	43.3	23.0	18.7
90°	0.0	0.0	0.0

(END OF REPORT)