

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: P180778

Luminaire Tested: **ICM-E03-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180778  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
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-SL4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (63) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5678.6 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - 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

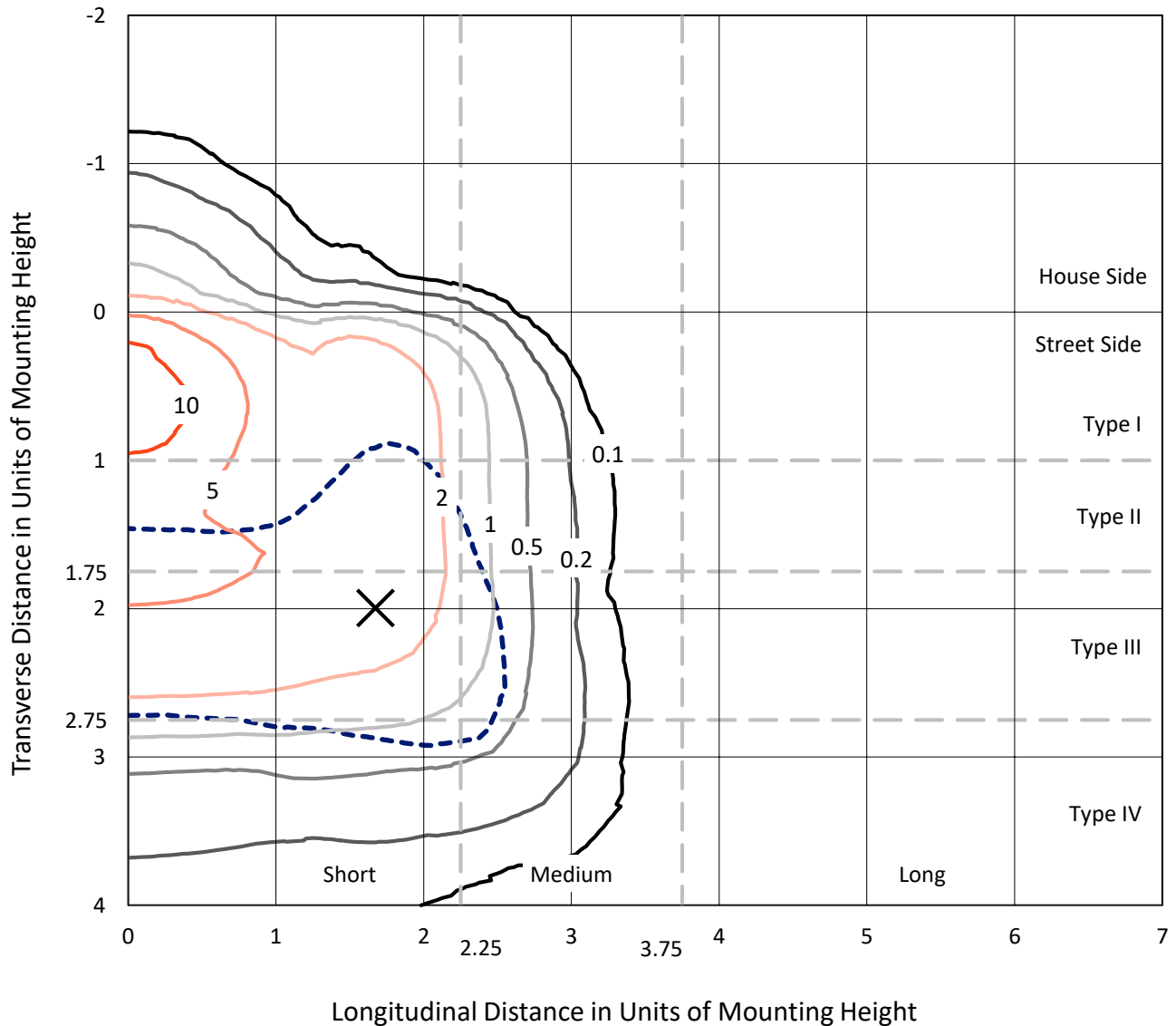


REPORT NUMBER: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

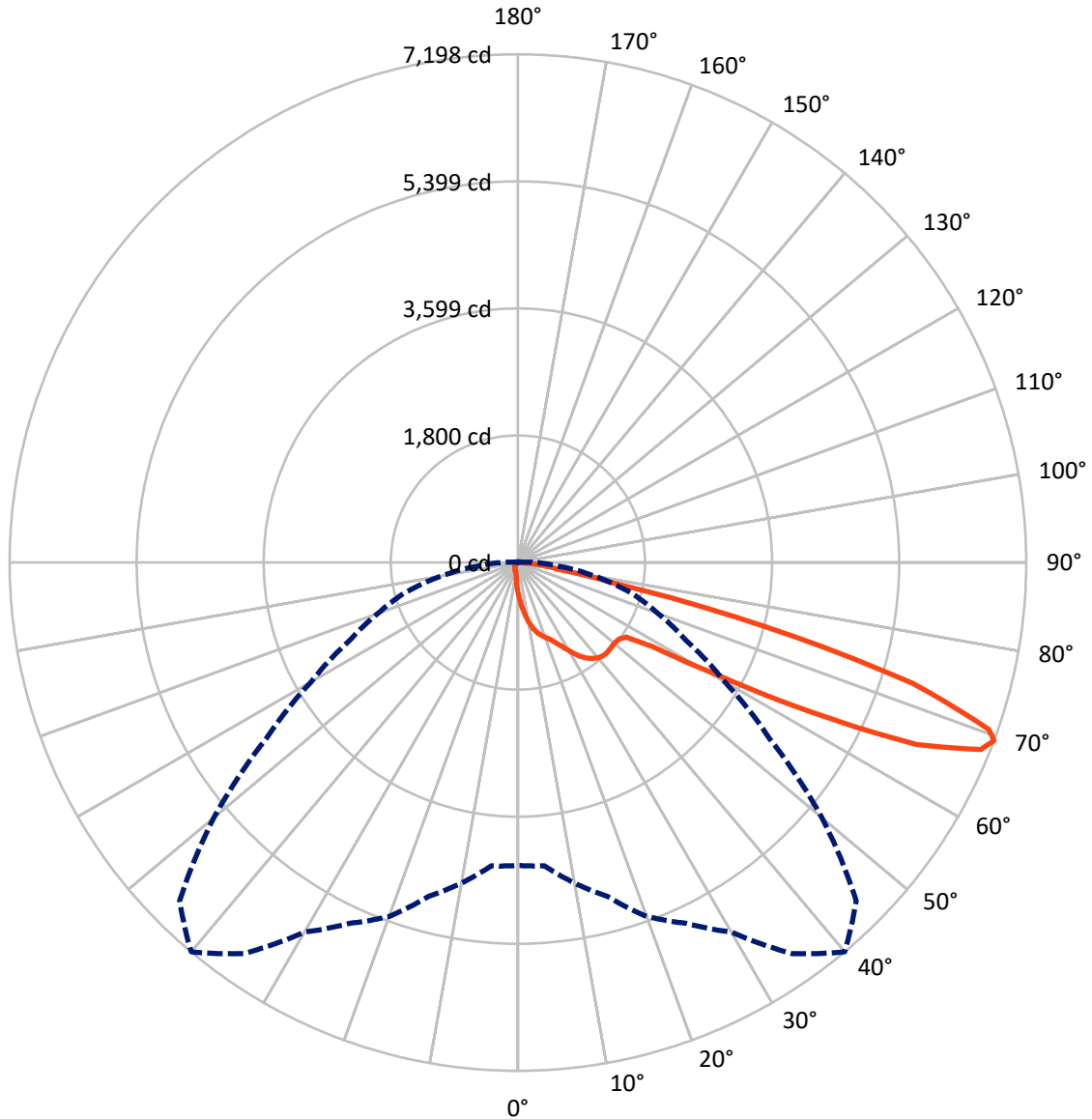


Based on 10 foot mounting height. Maximum calculated value = 12.7 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	169.1	0.0	169.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	5509.5	0.0	5509.5
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	5678.6	0.0	5678.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	0.8
10°-20°	152.0	2.7
20°-30°	290.9	5.1
30°-40°	483.7	8.5
40°-50°	654.5	11.5
50°-60°	1023.6	18.0
60°-70°	2104.6	37.1
70°-80°	846.8	14.9
80°-90°	78.3	1.4
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°	5678.6	100.0
0°-180°	5678.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P180778

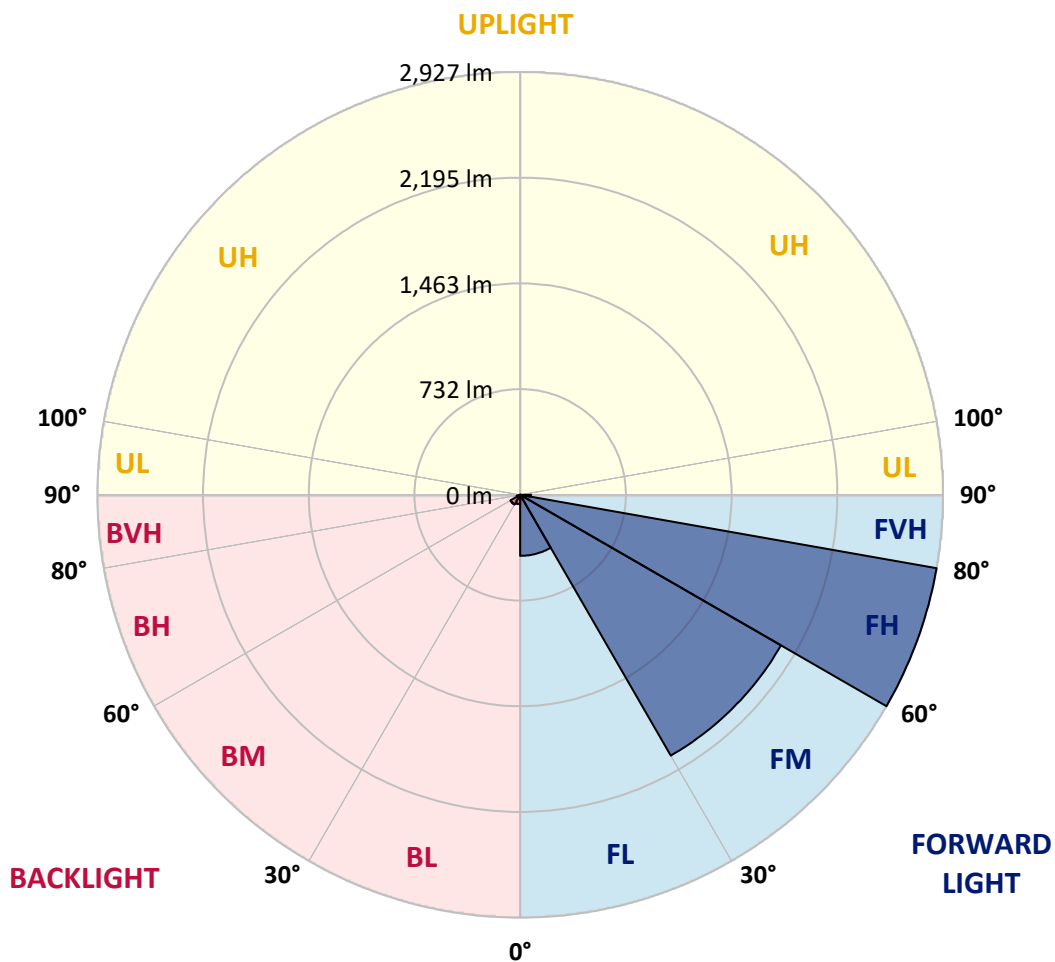
CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.6	7.4			
FM	(30°-60°)	2084.7	36.7			
FH	(60°-80°)	2926.8	51.5			G2/5000
FVH	(80°-90°)	75.4	1.3			G1/100
BL	(0°-30°)	64.3	1.1	B0/110		
BM	(30°-60°)	77.2	1.4	B0/220		
BH	(60°-80°)	24.7	0.4	B0/110		G0/110
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type IV Short





REPORT NUMBER: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8
2.5°	572.1	565.6	558.1	558.1	548.8	548.8	543.3	528.4	526.5	518.1	509.8
5°	730.2	724.7	715.4	707.0	699.5	686.5	677.2	659.5	640.0	621.4	604.7
7.5°	884.7	881.9	865.1	862.3	850.2	828.8	810.2	784.2	750.7	724.7	694.0
10°	1027.9	1021.4	1017.7	1001.9	984.2	960.9	932.1	900.5	861.4	820.5	776.7
12.5°	1141.4	1137.7	1120.9	1114.4	1095.8	1072.6	1036.3	995.4	956.3	903.3	852.1
15°	1226.1	1219.5	1208.4	1198.1	1175.8	1155.4	1121.9	1077.2	1029.8	972.1	910.7
17.5°	1296.8	1284.7	1281.9	1266.1	1242.8	1218.6	1181.4	1140.5	1084.7	1027.0	960.0
20°	1391.6	1374.9	1369.3	1346.1	1319.1	1285.6	1242.8	1191.6	1133.0	1069.8	1000.9
22.5°	1503.3	1491.2	1479.1	1458.6	1424.2	1376.8	1314.4	1258.6	1184.2	1114.4	1040.0
25°	1661.4	1651.2	1631.6	1603.7	1560.9	1504.2	1428.8	1347.0	1259.5	1170.2	1082.8
27.5°	1814.9	1805.6	1791.6	1770.2	1721.9	1659.5	1566.5	1462.3	1351.6	1243.7	1147.0
30°	1959.1	1950.7	1936.8	1915.4	1872.6	1811.2	1706.1	1594.4	1456.8	1331.2	1214.9
32.5°	2114.4	2111.6	2095.8	2065.1	2027.9	1945.1	1830.7	1710.7	1571.2	1426.1	1290.2
35°	2290.2	2268.9	2254.0	2223.3	2160.0	2071.6	1937.7	1806.5	1659.5	1510.7	1359.1
37.5°	2439.1	2418.6	2400.0	2360.9	2283.7	2171.2	2019.5	1875.4	1723.7	1572.1	1417.7
40°	2547.9	2537.7	2515.4	2464.2	2377.7	2243.7	2080.0	1922.8	1770.2	1617.7	1465.1
42.5°	2628.9	2613.0	2587.9	2534.9	2432.6	2280.0	2104.2	1942.3	1791.6	1645.6	1495.8
45°	2658.6	2645.6	2622.3	2564.7	2454.0	2290.2	2103.3	1936.8	1792.6	1654.0	1516.3
47.5°	2640.9	2627.9	2607.5	2553.5	2444.7	2278.2	2086.5	1920.9	1783.3	1656.8	1534.9
50°	2582.3	2574.9	2559.1	2513.5	2415.8	2254.9	2071.6	1912.6	1781.4	1670.7	1560.9
52.5°	2576.8	2572.1	2552.6	2507.0	2407.5	2247.5	2069.8	1917.2	1797.2	1688.4	1579.5
55°	3148.9	3082.8	2934.9	2809.3	2602.8	2357.2	2163.7	1992.6	1864.2	1758.2	1681.9
57.5°	4475.4	4376.8	4182.4	3943.3	3468.9	3002.8	2629.8	2360.0	2227.0	2178.6	2207.5
60°	5096.8	5079.1	5048.4	4934.9	4692.1	4291.2	3844.7	3361.9	3168.4	3151.6	3210.3
62.5°	5391.7	5380.5	5389.8	5375.8	5300.5	5183.3	5054.9	4846.5	4654.9	4531.2	4268.9
65°	5527.5	5534.9	5587.9	5629.8	5639.1	5669.8	5763.8	6023.3	6213.1	5894.0	5165.6
67.5°	5182.4	5226.1	5347.9	5500.5	5679.1	5852.1	6131.2	6678.2	7068.0	6693.1	5658.6
69°	4290.3	4311.7	4609.3	4896.8	5333.1	5638.2	6042.8	6760.0	7198.2	6774.9	5619.6
70°	3377.7	3397.2	3716.3	4107.0	4844.7	5237.2	5766.5	6621.4	7076.3	6666.1	5418.6
72.5°	1523.7	1495.8	1608.4	1817.7	2619.6	3242.8	4168.4	5364.7	5838.2	5340.5	4054.0
75°	1064.2	1052.1	1064.2	1065.1	1189.8	1534.9	1936.8	2907.9	3596.3	3103.3	1936.8
77.5°	824.2	815.8	807.4	798.1	813.0	910.7	949.8	1031.6	1339.5	1267.0	738.6
80°	652.1	644.7	665.1	658.6	658.6	669.8	662.3	631.6	574.0	532.1	476.3
82.5°	303.3	305.1	305.1	331.2	399.1	466.0	487.4	456.7	405.6	345.1	278.1
85°	28.8	32.6	54.9	84.7	168.4	189.8	190.7	158.1	158.1	124.7	100.5
87.5°	0.0	0.9	0.9	0.9	8.4	23.3	19.5	5.6	2.8	2.8	4.7
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: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8
2.5°	494.9	492.1	480.9	469.8	459.5	448.4	438.1	427.9	416.7	408.4	398.1
5°	578.6	558.1	534.9	512.6	490.2	467.0	442.8	421.4	399.1	378.6	359.1
7.5°	663.3	623.3	591.6	551.6	515.4	479.1	445.6	411.2	379.5	349.8	321.9
10°	734.9	686.5	637.2	586.1	534.0	485.6	439.1	398.1	356.3	320.0	285.6
12.5°	793.5	732.1	671.6	607.4	548.8	487.4	429.8	380.5	331.2	290.2	254.9
15°	846.5	775.8	703.3	628.8	554.4	484.7	420.5	359.1	308.8	262.3	222.3
17.5°	889.3	808.4	726.5	642.8	562.8	480.9	408.4	344.2	285.6	237.2	198.1
20°	926.5	841.9	753.5	659.5	568.4	480.0	398.1	325.6	265.1	214.0	175.8
22.5°	960.9	876.3	781.4	680.9	576.7	479.1	388.8	311.6	247.4	196.3	158.1
25°	1000.0	910.7	811.2	703.3	591.6	482.8	383.3	300.5	231.6	179.5	144.2
27.5°	1043.7	949.8	846.5	731.2	611.2	490.2	381.4	288.4	217.7	163.7	133.0
30°	1105.1	996.3	881.9	759.1	628.8	498.6	379.5	280.9	203.7	151.6	121.9
32.5°	1159.1	1041.9	920.9	787.9	648.4	507.0	378.6	270.7	190.7	139.5	113.5
35°	1215.8	1083.7	954.4	815.8	665.1	516.3	377.7	263.3	178.6	127.4	105.1
37.5°	1265.1	1119.1	980.5	840.0	683.7	524.7	378.6	256.7	167.4	117.2	97.7
40°	1307.0	1155.4	1009.3	862.3	703.3	537.7	379.5	250.2	156.3	107.9	91.2
42.5°	1344.2	1189.8	1040.0	887.4	725.6	552.6	385.1	244.7	147.0	99.5	84.7
45°	1373.0	1221.4	1073.5	922.8	761.9	576.7	395.4	240.9	137.7	92.1	79.1
47.5°	1402.8	1267.9	1130.2	978.6	814.9	614.9	413.0	240.0	130.2	86.5	74.4
50°	1443.7	1314.4	1180.5	1035.4	863.3	654.0	434.4	240.9	120.9	80.9	69.8
52.5°	1473.5	1361.9	1245.6	1134.0	978.6	773.0	517.2	257.7	116.3	76.3	64.2
55°	1649.3	1629.8	1632.6	1651.2	1531.2	1315.4	865.1	372.1	136.7	86.5	63.3
57.5°	2325.6	2394.4	2434.4	2433.5	2235.4	1854.0	1161.9	478.1	152.6	100.5	75.3
60°	3214.9	3162.8	3089.3	2907.9	2644.7	2116.3	1299.5	514.4	132.1	80.0	68.8
62.5°	4001.0	3695.8	3425.1	3131.2	2786.1	2207.5	1327.4	511.6	115.3	60.5	48.4
65°	4491.2	3942.3	3505.1	3136.8	2730.2	2131.2	1255.8	469.8	97.7	49.3	40.0
67.5°	4608.4	3809.3	3190.7	2720.9	2280.9	1658.6	921.9	353.5	76.3	40.9	35.3
69°	4352.6	3386.1	2643.7	2110.7	1659.5	1100.5	570.2	223.3	58.6	37.2	32.6
70°	4003.7	2945.1	2153.5	1694.0	1228.8	773.0	399.1	157.2	47.4	34.4	29.8
72.5°	2575.8	1547.0	1058.6	736.7	507.0	307.9	156.3	70.7	36.3	28.8	24.2
75°	999.1	572.1	414.9	315.4	246.5	171.2	94.9	45.6	30.7	24.2	18.6
77.5°	492.1	376.7	307.9	211.2	122.8	76.3	51.2	35.3	25.1	17.7	12.1
80°	388.8	258.6	154.4	95.8	72.6	54.9	39.1	28.8	18.6	11.2	8.4
82.5°	199.1	108.8	80.0	65.1	54.0	42.8	31.6	20.5	12.1	7.4	6.5
85°	62.3	45.6	40.9	40.0	37.2	30.7	22.3	13.0	7.4	4.7	4.7
87.5°	4.7	6.5	8.4	6.5	7.4	6.5	8.4	5.6	3.7	3.7	2.8
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: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8	428.8
2.5°	390.7	379.5	369.3	362.8	350.7	346.0	341.4	339.5	331.2	333.0	325.6
5°	341.4	321.9	307.0	292.1	278.1	267.9	259.5	249.3	240.9	237.2	229.8
7.5°	296.7	271.6	252.1	236.3	219.5	206.5	195.4	187.9	180.5	173.0	169.3
10°	257.7	230.7	208.4	192.6	176.7	165.6	157.2	151.6	147.0	144.2	143.3
12.5°	221.4	195.4	174.9	160.9	148.8	143.3	139.5	136.7	135.8	134.9	134.9
15°	193.5	167.4	151.6	141.4	135.8	133.0	132.1	130.2	128.4	127.4	127.4
17.5°	167.4	147.9	136.7	131.2	128.4	126.5	124.7	122.8	120.9	120.0	120.0
20°	149.8	134.0	128.4	124.7	121.9	120.0	117.2	115.3	114.4	113.5	112.6
22.5°	135.8	125.6	121.9	119.1	115.3	112.6	110.7	108.8	107.0	106.0	105.1
25°	125.6	119.1	116.3	112.6	108.8	106.0	103.3	100.5	98.6	97.7	95.8
27.5°	118.1	113.5	109.8	105.1	101.4	98.6	95.8	93.0	91.2	89.3	88.4
30°	111.6	107.0	102.3	98.6	94.0	91.2	87.4	84.7	83.7	81.9	80.0
32.5°	105.1	100.5	95.8	91.2	86.5	82.8	80.9	77.2	75.3	74.4	72.6
35°	97.7	93.0	87.4	83.7	79.1	75.3	72.6	69.8	67.9	66.0	65.1
37.5°	91.2	85.6	80.0	75.3	71.6	67.9	65.1	62.3	60.5	58.6	57.7
40°	83.7	78.1	72.6	67.9	64.2	61.4	58.6	55.8	54.0	53.0	53.0
42.5°	77.2	70.7	65.1	61.4	58.6	54.9	52.1	49.3	48.4	47.4	48.4
45°	70.7	64.2	59.5	55.8	53.0	49.3	46.5	44.7	43.7	44.7	45.6
47.5°	65.1	58.6	54.0	51.2	48.4	45.6	42.8	40.9	40.9	42.8	44.7
50°	59.5	53.0	49.3	47.4	44.7	41.9	38.1	37.2	38.1	40.0	41.9
52.5°	54.0	46.5	43.7	42.8	40.0	37.2	34.4	33.5	34.4	36.3	35.3
55°	48.4	40.9	40.0	39.1	36.3	32.6	29.8	29.8	29.8	28.8	27.0
57.5°	46.5	36.3	35.3	34.4	31.6	27.9	26.0	24.2	23.3	20.5	19.5
60°	48.4	32.6	32.6	30.7	27.9	24.2	21.4	18.6	16.7	14.9	14.9
62.5°	39.1	29.8	28.8	27.0	23.3	19.5	16.7	14.0	13.0	12.1	12.1
65°	31.6	27.0	25.1	22.3	19.5	15.8	13.0	11.2	10.2	10.2	11.2
67.5°	28.8	24.2	21.4	18.6	15.8	12.1	10.2	9.3	9.3	10.2	10.2
69°	27.0	22.3	19.5	16.7	14.0	11.2	9.3	9.3	9.3	9.3	10.2
70°	25.1	21.4	18.6	15.8	12.1	9.3	8.4	8.4	9.3	9.3	10.2
72.5°	19.5	16.7	15.8	13.0	9.3	8.4	7.4	8.4	8.4	9.3	9.3
75°	14.9	12.1	12.1	10.2	7.4	6.5	6.5	7.4	7.4	8.4	8.4
77.5°	10.2	8.4	8.4	7.4	6.5	5.6	5.6	6.5	7.4	7.4	8.4
80°	7.4	6.5	5.6	6.5	5.6	4.7	5.6	6.5	6.5	7.4	7.4
82.5°	5.6	5.6	5.6	5.6	4.7	4.7	5.6	5.6	6.5	7.4	7.4
85°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.6	5.6	6.5	6.5
87.5°	2.8	2.8	2.8	3.7	3.7	4.7	4.7	4.7	4.7	5.6	5.6
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: P180778

CATALOG NUMBER: ICM-E03-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	428.8	428.8	428.8	428.8
2.5°	323.7	322.8	319.1	320.0
5°	227.0	221.4	225.1	224.2
7.5°	166.5	165.6	164.7	166.5
10°	142.3	142.3	141.4	142.3
12.5°	134.0	134.0	134.0	134.0
15°	127.4	127.4	126.5	126.5
17.5°	120.0	120.0	120.0	119.1
20°	112.6	111.6	111.6	111.6
22.5°	104.2	103.3	103.3	103.3
25°	95.8	94.9	94.9	94.9
27.5°	87.4	86.5	85.6	85.6
30°	79.1	78.1	77.2	77.2
32.5°	70.7	69.8	68.8	68.8
35°	63.3	63.3	62.3	61.4
37.5°	56.7	56.7	56.7	56.7
40°	52.1	53.0	53.0	53.0
42.5°	49.3	50.2	51.2	52.1
45°	47.4	49.3	50.2	50.2
47.5°	46.5	47.4	48.4	48.4
50°	42.8	41.9	41.9	41.9
52.5°	34.4	32.6	31.6	30.7
55°	25.1	24.2	22.3	22.3
57.5°	17.7	17.7	16.7	16.7
60°	14.0	14.0	13.0	14.0
62.5°	12.1	12.1	12.1	12.1
65°	11.2	11.2	11.2	11.2
67.5°	11.2	11.2	11.2	11.2
69°	10.2	10.2	10.2	10.2
70°	10.2	10.2	10.2	10.2
72.5°	9.3	9.3	9.3	9.3
75°	8.4	9.3	9.3	9.3
77.5°	8.4	8.4	8.4	8.4
80°	7.4	7.4	8.4	8.4
82.5°	7.4	7.4	7.4	7.4
85°	6.5	6.5	7.4	7.4
87.5°	5.6	5.6	6.5	6.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)