

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: P180793

Luminaire Tested: **ICM-F04-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180793  
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-F04-LED-E1-SL4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

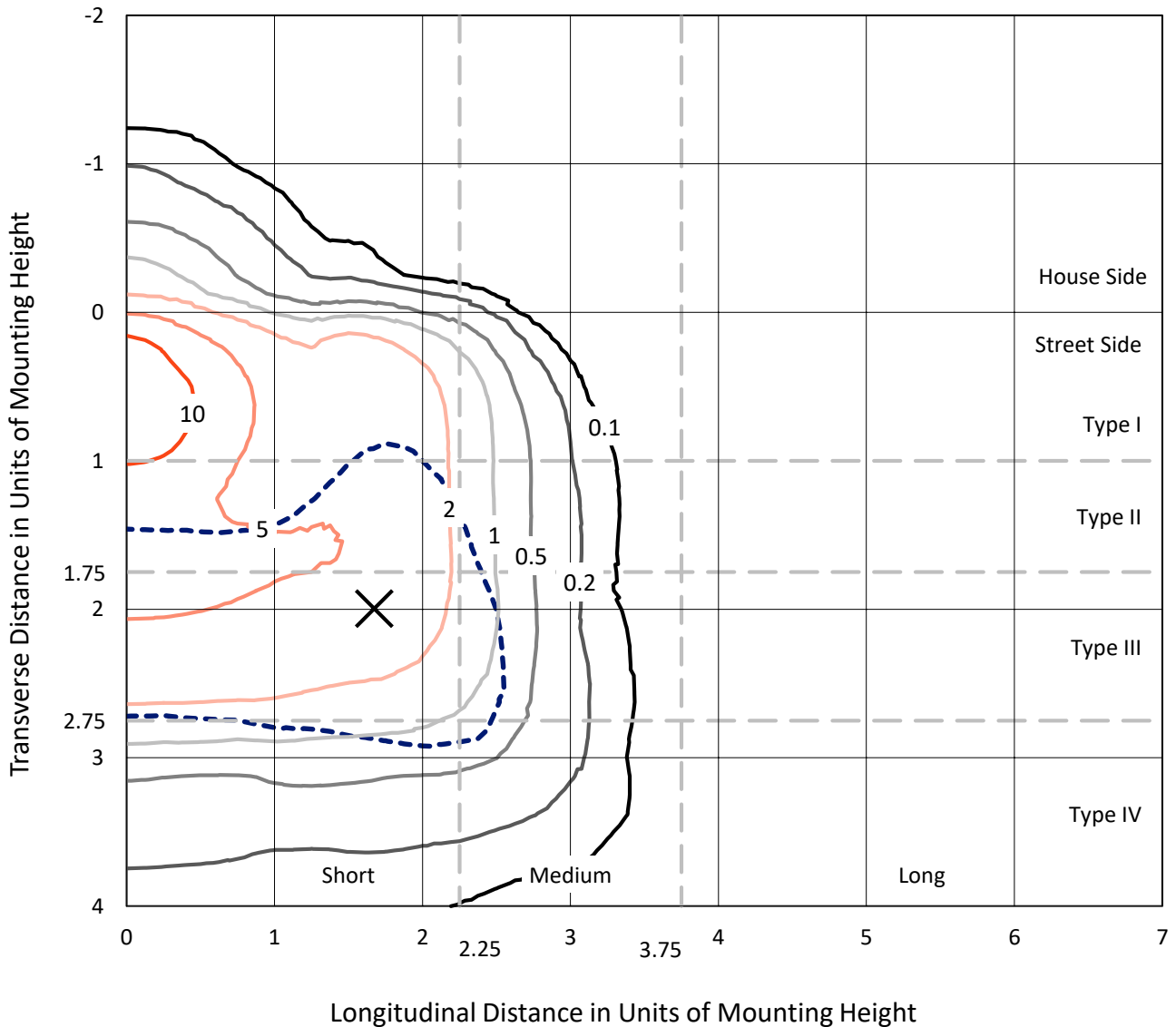
Lumens per Lamp: N/A  
Luminaire Lumens: 6250.4 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 102.2  
Input Voltage (V): NR  
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

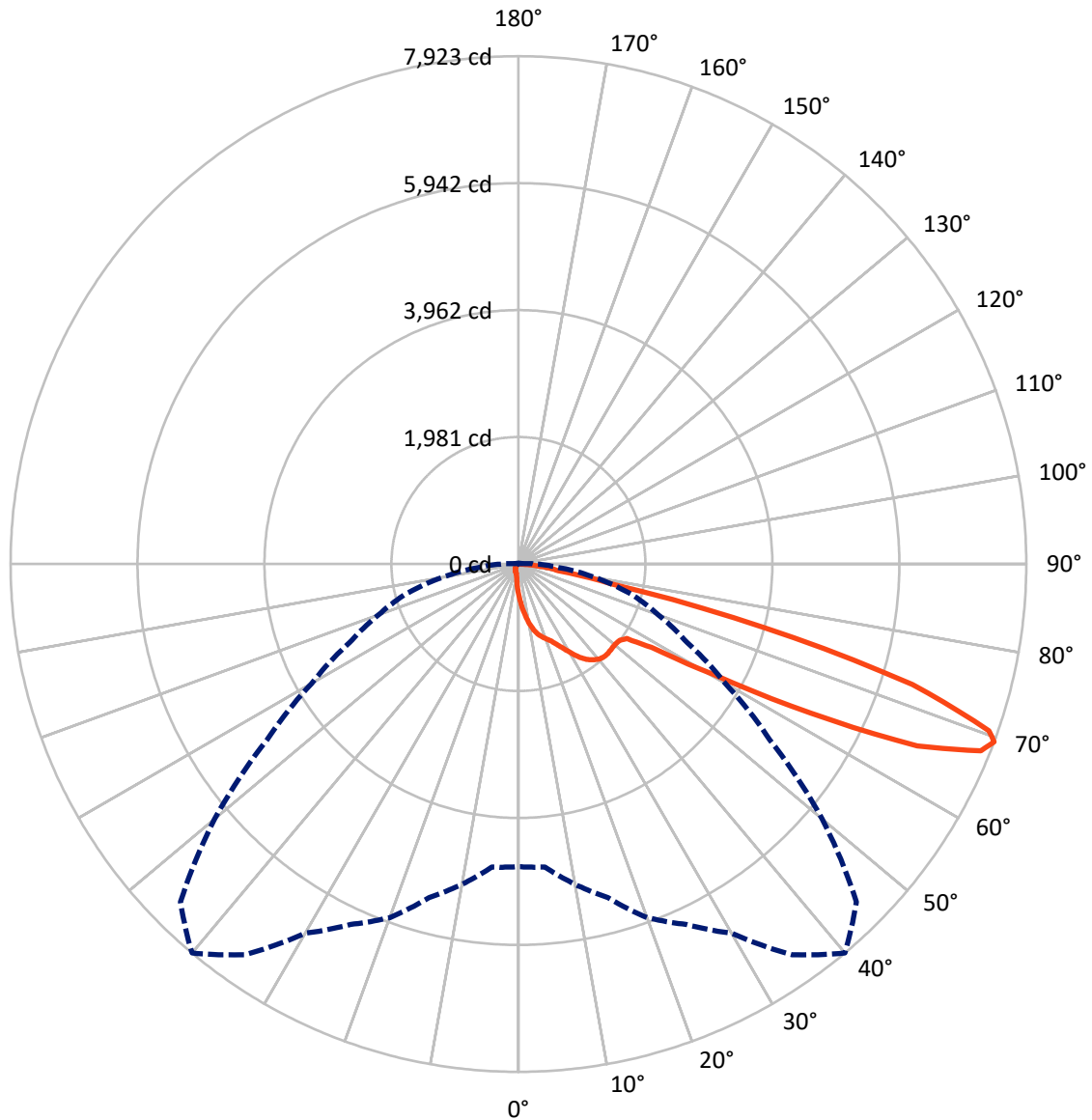


Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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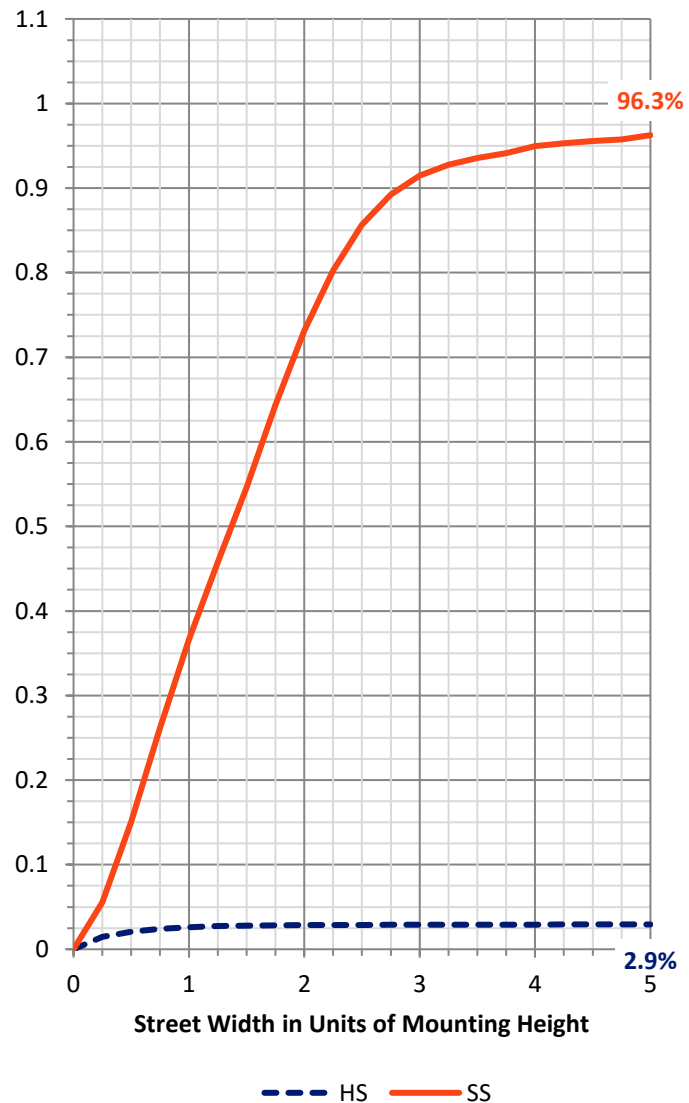
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	186.1	0.0	186.1
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	6064.3	0.0	6064.3
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	6250.4	0.0	6250.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	0.8
10°-20°	167.3	2.7
20°-30°	320.2	5.1
30°-40°	532.4	8.5
40°-50°	720.4	11.5
50°-60°	1126.7	18.0
60°-70°	2316.5	37.1
70°-80°	932.1	14.9
80°-90°	86.2	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°	6250.4	100.0
0°-180°	6250.4	100.0



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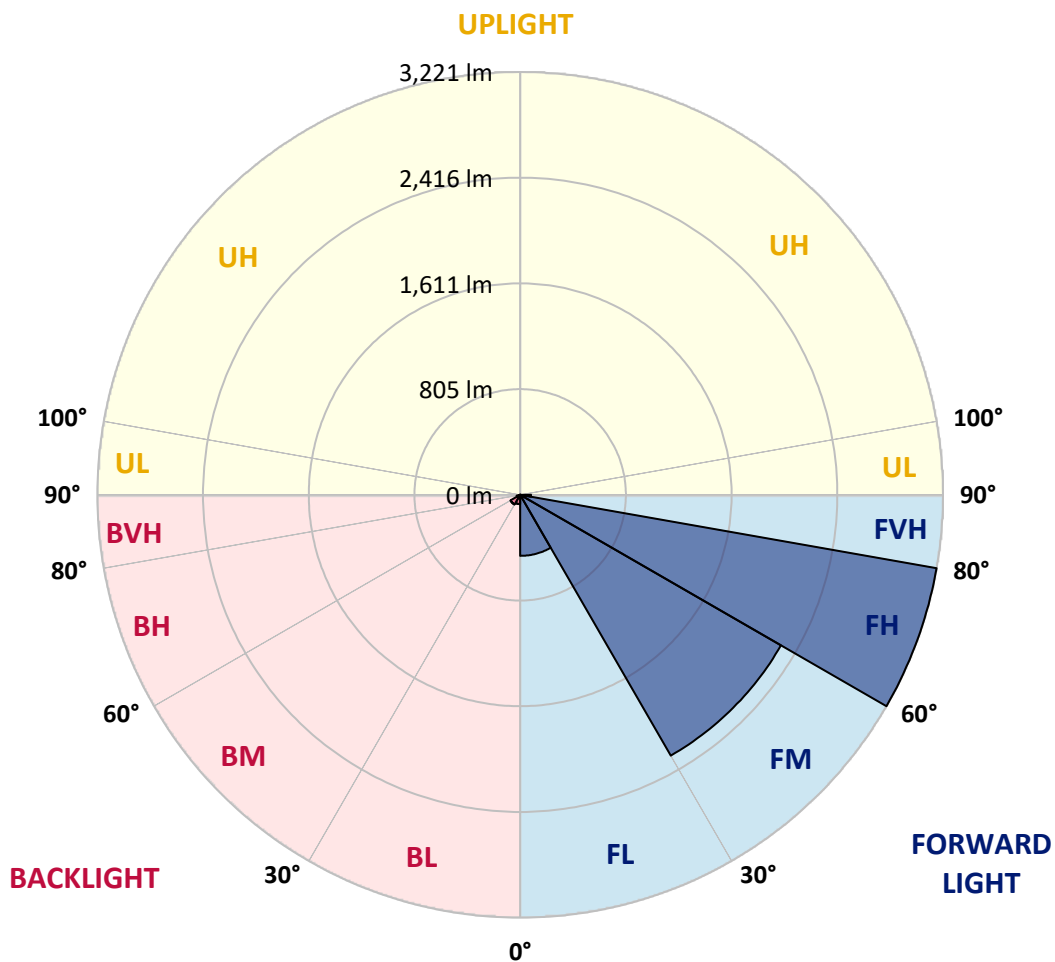
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.2	7.4			
FM (30°-60°)	2294.6	36.7			
FH (60°-80°)	3221.5	51.5			G2/5000
FVH (80°-90°)	83.0	1.3			G1/100
BL (0°-30°)	70.8	1.1	B0/110		
BM (30°-60°)	85.0	1.4	B0/220		
BH (60°-80°)	27.1	0.4	B0/110		G0/110
BVH (80°-90°)	3.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	629.7	622.5	614.3	614.3	604.1	604.1	598.0	581.6	579.5	570.3	561.1
5°	803.7	797.6	787.4	778.1	770.0	755.6	745.4	726.0	704.5	684.0	665.6
7.5°	973.8	970.7	952.3	949.1	935.8	912.3	891.8	863.2	826.3	797.6	763.8
10°	1131.4	1124.3	1120.2	1102.8	1083.3	1057.7	1026.0	991.2	948.1	903.1	855.0
12.5°	1256.4	1252.3	1233.8	1226.6	1206.1	1180.6	1140.7	1095.5	1052.6	994.2	937.9
15°	1349.5	1342.3	1330.1	1318.8	1294.2	1271.7	1234.8	1185.7	1133.5	1070.0	1002.4
17.5°	1427.4	1414.1	1411.0	1393.6	1367.9	1341.3	1300.4	1255.4	1193.9	1130.4	1056.7
20°	1531.7	1513.3	1507.2	1481.6	1451.9	1415.1	1367.9	1311.6	1247.2	1177.5	1101.8
22.5°	1654.6	1641.3	1628.0	1605.5	1567.6	1515.4	1446.8	1385.3	1303.4	1226.6	1144.8
25°	1828.8	1817.4	1795.9	1765.2	1718.2	1655.6	1572.8	1482.6	1386.3	1288.1	1191.8
27.5°	1997.7	1987.5	1972.0	1948.5	1895.3	1826.6	1724.3	1609.6	1487.7	1368.9	1262.5
30°	2156.4	2147.2	2131.8	2108.2	2061.1	1993.6	1877.9	1755.0	1603.5	1465.2	1337.2
32.5°	2327.4	2324.3	2306.9	2273.1	2232.1	2141.0	2015.1	1883.0	1729.4	1569.7	1420.2
35°	2520.9	2497.3	2480.9	2447.2	2377.5	2280.3	2132.9	1988.5	1826.6	1662.8	1495.9
37.5°	2684.7	2662.2	2641.7	2598.7	2513.7	2389.8	2222.9	2064.2	1897.3	1730.4	1560.5
40°	2804.5	2793.2	2768.7	2712.4	2617.1	2469.7	2289.5	2116.4	1948.5	1780.6	1612.7
42.5°	2893.6	2876.2	2848.5	2790.2	2677.5	2509.6	2316.1	2138.0	1972.0	1811.3	1646.4
45°	2926.3	2912.0	2886.4	2822.9	2701.0	2520.9	2315.1	2131.8	1973.0	1820.5	1668.9
47.5°	2906.9	2892.6	2870.1	2810.6	2690.8	2507.6	2296.7	2114.3	1962.8	1823.5	1689.5
50°	2842.3	2834.2	2816.8	2766.6	2659.1	2482.0	2280.3	2105.1	1960.8	1839.0	1718.2
52.5°	2836.2	2831.1	2809.6	2759.5	2649.9	2473.8	2278.2	2110.2	1978.2	1858.4	1738.6
55°	3466.0	3393.2	3230.4	3092.2	2864.9	2594.6	2381.6	2193.2	2051.9	1935.2	1851.3
57.5°	4926.1	4817.5	4603.5	4340.4	3818.2	3305.2	2894.6	2597.7	2451.3	2398.0	2429.8
60°	5610.0	5590.5	5556.8	5431.8	5164.6	4723.3	4231.8	3700.4	3487.5	3469.0	3533.5
62.5°	5934.6	5922.3	5932.6	5917.2	5834.3	5705.2	5563.9	5334.5	5123.7	4987.5	4698.7
65°	6084.1	6092.3	6150.6	6196.7	6206.9	6240.8	6344.1	6629.8	6838.7	6487.5	5685.8
67.5°	5704.2	5752.3	5886.5	6054.4	6251.0	6441.4	6748.6	7350.6	7779.7	7367.0	6228.5
69°	4722.3	4745.8	5073.5	5389.9	5870.1	6205.9	6651.3	7440.8	7923.0	7457.2	6185.4
70°	3717.8	3739.4	4090.5	4520.6	5332.5	5764.6	6347.2	7288.2	7788.9	7337.3	5964.3
72.5°	1677.1	1646.4	1770.3	2000.8	2883.4	3569.3	4588.1	5904.9	6426.1	5878.3	4462.3
75°	1171.4	1158.1	1171.4	1172.4	1309.6	1689.5	2131.8	3200.8	3958.4	3415.7	2131.8
77.5°	907.2	898.0	888.7	878.5	894.9	1002.4	1045.4	1135.5	1474.4	1394.6	813.0
80°	717.8	709.6	732.1	724.9	724.9	737.2	729.0	695.3	631.7	585.7	524.3
82.5°	333.8	335.8	335.8	364.5	439.3	513.0	536.6	502.7	446.4	379.9	306.1
85°	31.7	35.8	60.4	93.2	185.3	208.8	209.9	174.0	174.0	137.2	110.6
87.5°	0.0	1.0	1.0	1.0	9.2	25.6	21.5	6.1	3.1	3.1	5.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	544.7	541.7	529.4	517.1	505.8	493.5	482.2	471.0	458.7	449.5	438.2
5°	636.8	614.3	588.7	564.2	539.6	514.0	487.4	463.8	439.3	416.7	395.3
7.5°	730.1	686.1	651.2	607.2	567.3	527.4	490.4	452.6	417.8	385.0	354.2
10°	808.9	755.6	701.4	645.0	587.7	534.5	483.3	438.2	392.2	352.2	314.3
12.5°	873.4	805.9	739.3	668.7	604.1	536.6	473.0	418.8	364.5	319.4	280.6
15°	931.7	854.0	774.1	692.2	610.2	533.5	462.8	395.3	339.9	288.7	244.7
17.5°	978.9	889.8	799.6	707.5	619.4	529.4	449.5	378.9	314.3	261.1	218.0
20°	1019.8	926.6	829.4	726.0	625.6	528.4	438.2	358.3	291.8	235.5	193.5
22.5°	1057.7	964.6	860.1	749.5	634.8	527.4	428.0	343.0	272.4	216.0	174.0
25°	1100.8	1002.4	892.8	774.1	651.2	531.4	421.9	330.7	255.0	197.6	158.7
27.5°	1148.8	1045.4	931.7	804.8	672.7	539.6	419.8	317.4	239.6	180.2	146.4
30°	1216.4	1096.6	970.7	835.5	692.2	548.8	417.8	309.2	224.3	166.9	134.1
32.5°	1275.8	1146.8	1013.7	867.3	713.7	558.0	416.7	298.0	209.9	153.6	124.9
35°	1338.2	1192.8	1050.5	898.0	732.1	568.3	415.7	289.8	196.6	140.3	115.7
37.5°	1392.6	1231.7	1079.2	924.6	752.6	577.5	416.7	282.6	184.3	129.0	107.5
40°	1438.6	1271.7	1111.0	949.1	774.1	591.8	417.8	275.4	172.0	118.8	100.4
42.5°	1479.5	1309.6	1144.8	976.8	798.6	608.2	423.9	269.3	161.8	109.6	93.2
45°	1511.3	1344.4	1181.6	1015.7	838.6	634.8	435.2	265.2	151.5	101.4	87.1
47.5°	1544.1	1395.6	1244.1	1077.1	896.9	676.8	454.6	264.2	143.3	95.3	82.0
50°	1589.1	1446.8	1299.4	1139.6	950.1	719.8	478.1	265.2	133.1	89.1	76.8
52.5°	1621.9	1499.0	1371.0	1248.2	1077.1	850.9	569.3	283.6	128.0	84.0	70.6
55°	1815.4	1793.9	1796.9	1817.4	1685.4	1447.8	952.3	409.6	150.5	95.3	69.6
57.5°	2559.7	2635.6	2679.6	2678.5	2460.5	2040.7	1278.9	526.3	167.9	110.6	83.0
60°	3538.6	3481.3	3400.4	3200.8	2911.0	2329.4	1430.4	566.2	145.4	88.1	75.8
62.5°	4403.8	4068.0	3770.1	3446.5	3066.6	2429.8	1461.1	563.2	127.0	66.5	53.2
65°	4943.5	4339.4	3858.1	3452.7	3005.2	2345.8	1382.2	517.1	107.5	54.2	44.0
67.5°	5072.5	4193.0	3512.0	2994.9	2510.6	1825.6	1014.7	389.1	84.0	45.0	38.9
69°	4790.9	3727.0	2910.0	2323.3	1826.6	1211.3	627.6	245.8	64.5	40.9	35.8
70°	4406.9	3241.7	2370.3	1864.6	1352.6	850.9	439.3	173.0	52.2	37.9	32.7
72.5°	2835.2	1702.8	1165.2	811.0	558.0	338.9	172.0	77.9	39.9	31.7	26.6
75°	1099.7	629.7	456.7	347.1	271.4	188.4	104.5	50.1	33.8	26.6	20.5
77.5°	541.7	414.7	338.9	232.5	135.2	84.0	56.3	38.9	27.6	19.4	13.3
80°	428.0	284.7	170.0	105.5	79.9	60.4	43.0	31.7	20.5	12.3	9.2
82.5°	219.1	119.8	88.1	71.6	59.3	47.1	34.8	22.5	13.3	8.2	7.2
85°	68.6	50.1	45.0	44.0	40.9	33.8	24.6	14.3	8.2	5.1	5.1
87.5°	5.1	7.2	9.2	7.2	8.2	7.2	9.2	6.1	4.1	4.1	3.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	430.0	417.8	406.5	399.4	386.0	380.9	375.8	373.8	364.5	366.6	358.3
5°	375.8	354.2	337.9	321.5	306.1	294.9	285.7	274.4	265.2	261.1	252.9
7.5°	326.6	299.0	277.5	260.1	241.7	227.4	215.0	206.8	198.6	190.4	186.3
10°	283.6	254.0	229.4	211.9	194.5	182.2	173.0	166.9	161.8	158.7	157.7
12.5°	243.7	215.0	192.5	177.1	163.8	157.7	153.6	150.5	149.5	148.5	148.5
15°	212.9	184.3	166.9	155.6	149.5	146.4	145.4	143.3	141.3	140.3	140.3
17.5°	184.3	162.8	150.5	144.4	141.3	139.3	137.2	135.2	133.1	132.1	132.1
20°	164.8	147.4	141.3	137.2	134.1	132.1	129.0	127.0	126.0	124.9	123.9
22.5°	149.5	138.2	134.1	131.1	127.0	123.9	121.9	119.8	117.8	116.7	115.7
25°	138.2	131.1	128.0	123.9	119.8	116.7	113.7	110.6	108.6	107.5	105.5
27.5°	130.0	124.9	120.8	115.7	111.6	108.6	105.5	102.4	100.4	98.3	97.3
30°	122.9	117.8	112.7	108.6	103.4	100.4	96.3	93.2	92.2	90.1	88.1
32.5°	115.7	110.6	105.5	100.4	95.3	91.2	89.1	85.0	83.0	82.0	79.9
35°	107.5	102.4	96.3	92.2	87.1	83.0	79.9	76.8	74.8	72.7	71.6
37.5°	100.4	94.2	88.1	83.0	78.9	74.8	71.6	68.6	66.5	64.5	63.4
40°	92.2	86.0	79.9	74.8	70.6	67.5	64.5	61.4	59.3	58.3	58.3
42.5°	85.0	77.9	71.6	67.5	64.5	60.4	57.3	54.2	53.2	52.2	53.2
45°	77.9	70.6	65.5	61.4	58.3	54.2	51.2	49.1	48.1	49.1	50.1
47.5°	71.6	64.5	59.3	56.3	53.2	50.1	47.1	45.0	45.0	47.1	49.1
50°	65.5	58.3	54.2	52.2	49.1	46.0	42.0	40.9	42.0	44.0	46.0
52.5°	59.3	51.2	48.1	47.1	44.0	40.9	37.9	36.8	37.9	39.9	38.9
55°	53.2	45.0	44.0	43.0	39.9	35.8	32.7	32.7	32.7	31.7	29.7
57.5°	51.2	39.9	38.9	37.9	34.8	30.7	28.7	26.6	25.6	22.5	21.5
60°	53.2	35.8	35.8	33.8	30.7	26.6	23.5	20.5	18.4	16.4	16.4
62.5°	43.0	32.7	31.7	29.7	25.6	21.5	18.4	15.3	14.3	13.3	13.3
65°	34.8	29.7	27.6	24.6	21.5	17.4	14.3	12.3	11.3	11.3	12.3
67.5°	31.7	26.6	23.5	20.5	17.4	13.3	11.3	10.2	10.2	11.3	11.3
69°	29.7	24.6	21.5	18.4	15.3	12.3	10.2	10.2	10.2	10.2	11.3
70°	27.6	23.5	20.5	17.4	13.3	10.2	9.2	9.2	10.2	10.2	11.3
72.5°	21.5	18.4	17.4	14.3	10.2	9.2	8.2	9.2	9.2	10.2	10.2
75°	16.4	13.3	13.3	11.3	8.2	7.2	7.2	8.2	8.2	9.2	9.2
77.5°	11.3	9.2	9.2	8.2	7.2	6.1	6.1	7.2	8.2	8.2	9.2
80°	8.2	7.2	6.1	7.2	6.1	5.1	6.1	7.2	7.2	8.2	8.2
82.5°	6.1	6.1	6.1	6.1	5.1	5.1	6.1	6.1	7.2	8.2	8.2
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.1	6.1	7.2	7.2
87.5°	3.1	3.1	3.1	4.1	4.1	5.1	5.1	5.1	5.1	6.1	6.1
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: P180793

CATALOG NUMBER: ICM-F04-LED-E1-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	472.0	472.0	472.0	472.0
2.5°	356.3	355.3	351.2	352.2
5°	249.9	243.7	247.8	246.8
7.5°	183.3	182.2	181.2	183.3
10°	156.7	156.7	155.6	156.7
12.5°	147.4	147.4	147.4	147.4
15°	140.3	140.3	139.3	139.3
17.5°	132.1	132.1	132.1	131.1
20°	123.9	122.9	122.9	122.9
22.5°	114.7	113.7	113.7	113.7
25°	105.5	104.5	104.5	104.5
27.5°	96.3	95.3	94.2	94.2
30°	87.1	86.0	85.0	85.0
32.5°	77.9	76.8	75.8	75.8
35°	69.6	69.6	68.6	67.5
37.5°	62.4	62.4	62.4	62.4
40°	57.3	58.3	58.3	58.3
42.5°	54.2	55.3	56.3	57.3
45°	52.2	54.2	55.3	55.3
47.5°	51.2	52.2	53.2	53.2
50°	47.1	46.0	46.0	46.0
52.5°	37.9	35.8	34.8	33.8
55°	27.6	26.6	24.6	24.6
57.5°	19.4	19.4	18.4	18.4
60°	15.3	15.3	14.3	15.3
62.5°	13.3	13.3	13.3	13.3
65°	12.3	12.3	12.3	12.3
67.5°	12.3	12.3	12.3	12.3
69°	11.3	11.3	11.3	11.3
70°	11.3	11.3	11.3	11.3
72.5°	10.2	10.2	10.2	10.2
75°	9.2	10.2	10.2	10.2
77.5°	9.2	9.2	9.2	9.2
80°	8.2	8.2	9.2	9.2
82.5°	8.2	8.2	8.2	8.2
85°	7.2	7.2	8.2	8.2
87.5°	6.1	6.1	7.2	7.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)