

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: P181534

Luminaire Tested: **ICM-F02-LED-E1-T4-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181534  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-F02-LED-E1-T4-HSS  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2970.5 lumens  
Efficiency: N/A  
Efficacy: 54.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

Input Watts (W): 55  
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

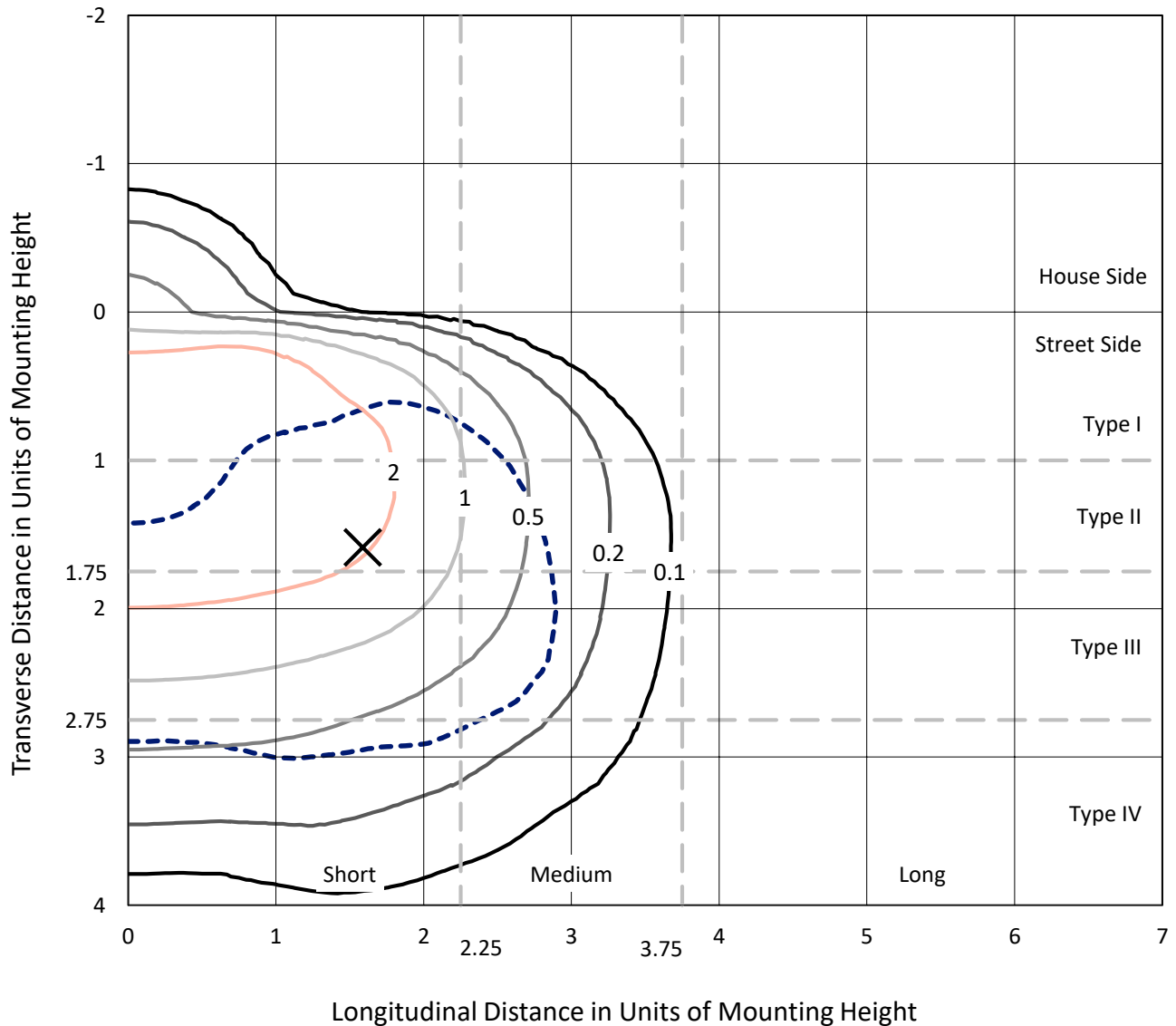


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

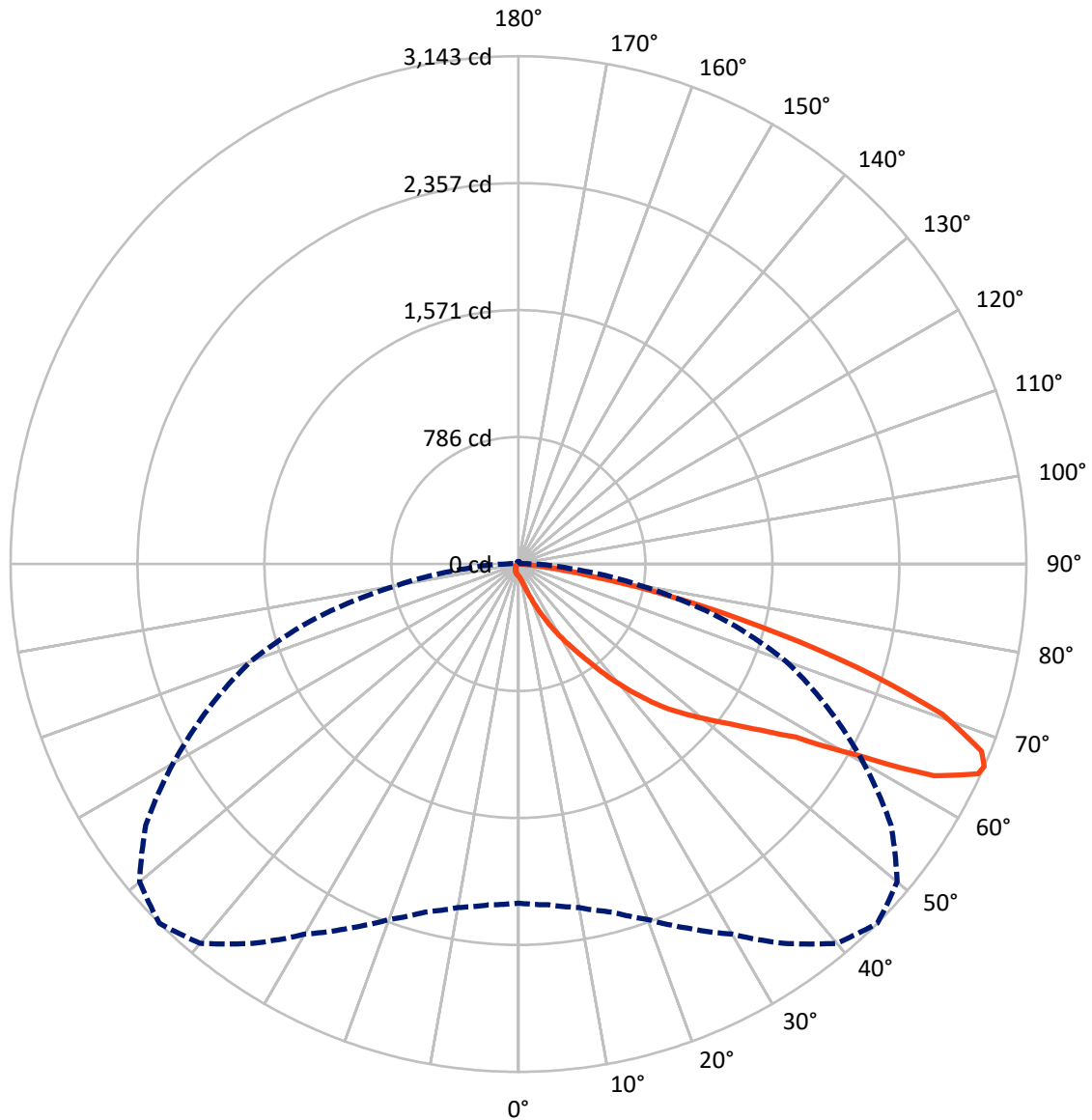


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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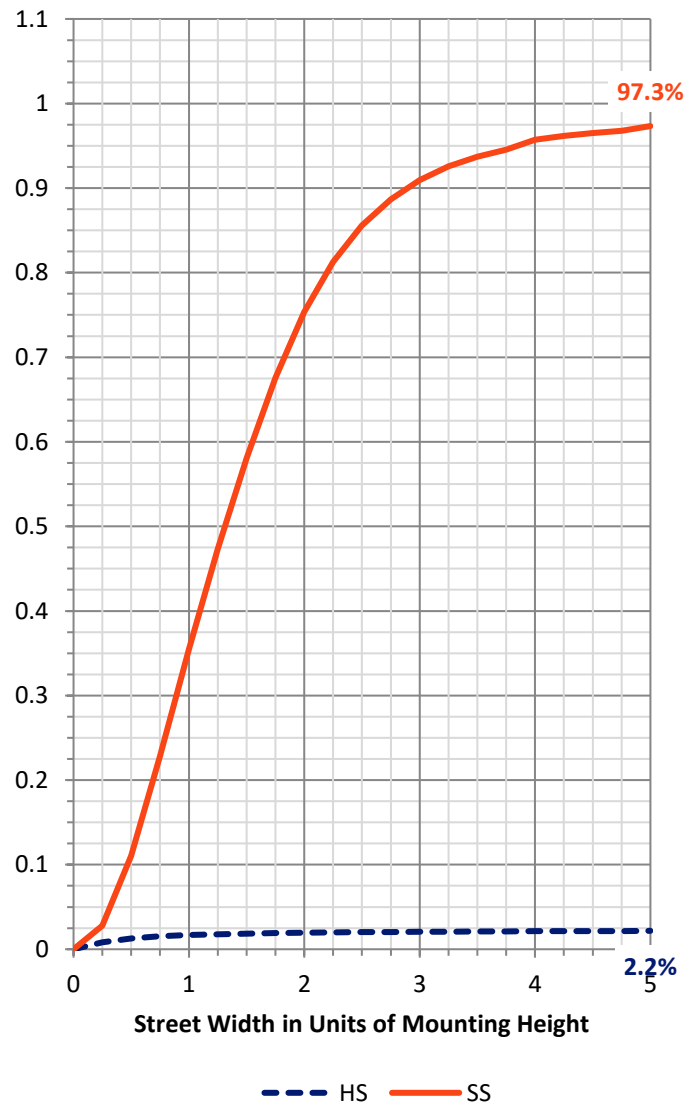
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	67.4	0.0	67.4
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	2903.1	0.0	2903.1
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	2970.5	0.0	2970.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.5	0.3
10°-20°	30.3	1.0
20°-30°	88.7	3.0
30°-40°	207.3	7.0
40°-50°	389.4	13.1
50°-60°	645.3	21.7
60°-70°	1024.4	34.5
70°-80°	529.8	17.8
80°-90°	47.9	1.6
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°	2970.5	100.0
0°-180°	2970.5	100.0



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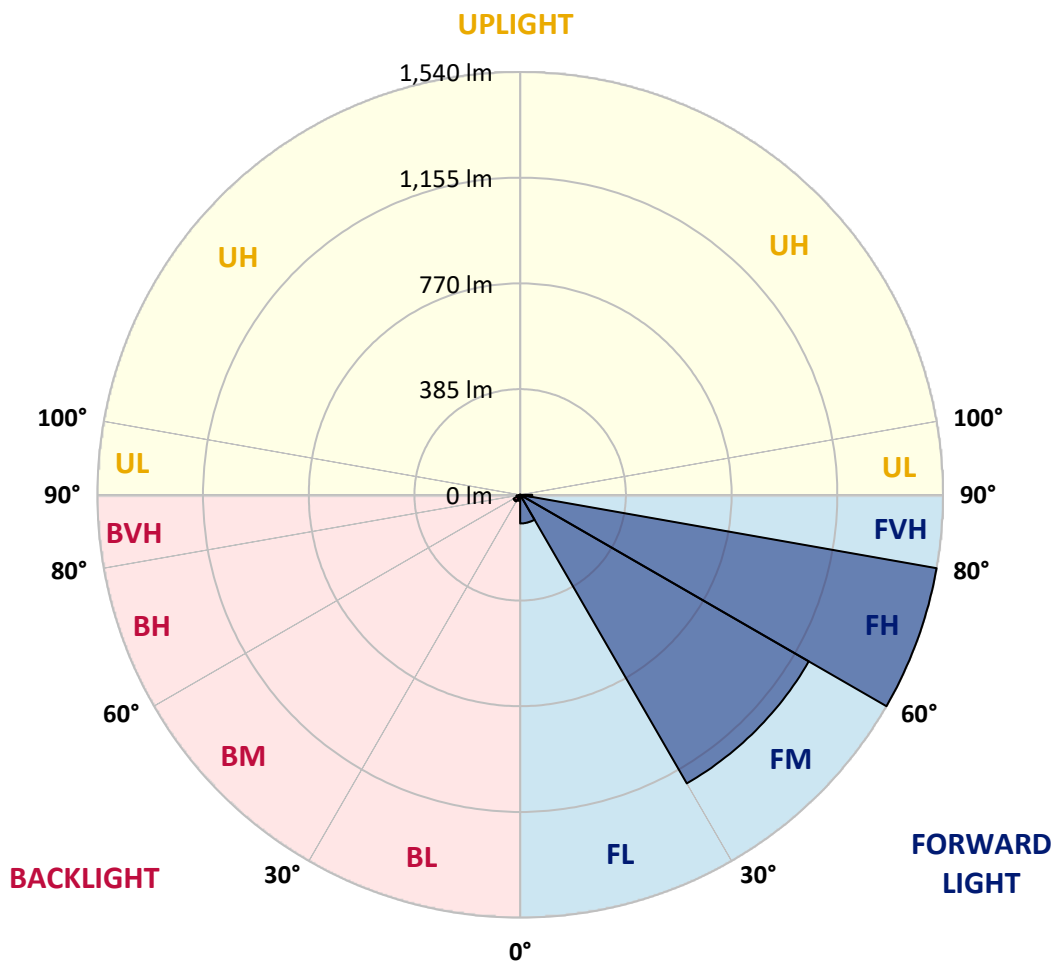
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.5	3.5			
FM	(30°-60°)	1214.0	40.9			
FH	(60°-80°)	1540.5	51.9			G1/1800
FVH	(80°-90°)	44.1	1.5			G1/100
BL	(0°-30°)	22.0	0.7	B0/110		
BM	(30°-60°)	27.9	0.9	B0/220		
BH	(60°-80°)	13.6	0.5	B0/110		G0/110
BVH	(80°-90°)	3.8	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	80.4	80.4	80.4	80.4	79.9	79.3	78.9	78.3	77.9	77.9	77.3
5°	91.2	91.6	91.2	90.6	89.6	89.1	87.5	86.5	85.0	84.5	83.0
7.5°	106.0	105.5	106.0	104.5	102.4	101.9	99.8	97.3	95.3	92.2	90.1
10°	127.4	127.0	127.4	124.4	121.3	118.8	115.2	112.1	107.5	103.9	99.8
12.5°	161.8	161.8	160.7	156.7	152.6	147.0	141.3	134.6	126.4	119.3	112.7
15°	214.5	211.9	207.4	204.7	197.6	188.9	182.8	169.5	157.7	146.4	133.1
17.5°	278.0	272.8	269.3	263.6	254.4	243.2	232.9	213.5	201.7	183.3	164.4
20°	350.7	344.6	343.5	334.8	325.1	312.8	298.0	274.9	255.0	231.9	205.3
22.5°	424.9	426.0	421.9	415.7	406.0	391.6	368.7	347.6	323.1	293.9	259.5
25°	507.8	507.4	503.7	496.6	489.4	471.5	453.1	433.1	403.9	366.6	325.6
27.5°	585.7	585.1	576.5	576.9	563.2	556.5	538.6	517.1	481.8	450.5	406.0
30°	667.1	662.0	656.3	652.2	642.5	630.7	621.5	595.9	569.3	532.5	496.1
32.5°	749.5	743.9	745.4	740.3	732.7	720.8	707.0	686.1	657.3	621.5	587.7
35°	850.3	847.8	843.7	845.2	843.7	835.0	823.3	795.5	764.4	730.1	695.3
37.5°	925.1	922.5	925.1	935.8	938.4	944.0	935.4	921.5	899.0	861.6	825.3
40°	994.2	994.7	1006.5	1019.8	1029.0	1047.4	1050.5	1044.9	1027.0	992.7	945.0
42.5°	1056.2	1063.8	1074.6	1096.6	1116.6	1142.7	1162.1	1165.2	1151.9	1129.4	1081.2
45°	1125.3	1131.9	1148.8	1175.0	1202.6	1234.8	1266.1	1282.4	1281.4	1265.6	1213.9
47.5°	1202.6	1211.3	1229.7	1251.3	1288.1	1324.5	1364.8	1394.1	1406.3	1384.3	1334.1
50°	1296.3	1299.8	1315.7	1343.4	1377.1	1419.2	1463.2	1505.7	1529.7	1509.2	1457.5
52.5°	1407.4	1408.4	1423.3	1448.8	1476.0	1522.1	1565.0	1623.9	1655.2	1643.9	1582.0
55°	1559.9	1556.8	1567.1	1589.1	1611.2	1655.6	1698.7	1765.2	1810.8	1811.8	1745.8
57.5°	1768.3	1761.1	1767.8	1785.2	1809.8	1851.3	1905.5	1964.4	2025.3	2021.2	1966.9
60°	2058.6	2056.0	2068.3	2097.5	2139.5	2182.4	2243.9	2323.3	2377.0	2395.5	2338.6
62.5°	2251.5	2258.7	2286.9	2331.9	2412.9	2502.0	2616.1	2737.4	2839.8	2885.9	2807.6
65°	2168.7	2180.4	2224.5	2291.0	2398.0	2531.6	2683.2	2882.3	3058.9	3129.0	3047.6
66°	2098.5	2117.4	2158.9	2229.6	2341.2	2487.1	2645.3	2865.4	3064.0	3142.9	3059.9
67.5°	1977.2	1990.5	2037.6	2115.9	2235.7	2380.1	2551.1	2783.6	3007.7	3091.2	3008.8
70°	1729.9	1735.0	1773.4	1840.0	1932.7	2080.6	2235.7	2459.5	2665.8	2783.0	2692.9
72.5°	1287.5	1294.7	1358.2	1479.5	1599.8	1683.8	1775.5	1954.6	2087.7	2197.3	2179.9
75°	619.4	622.5	665.0	842.1	1076.7	1177.0	1262.0	1400.8	1451.4	1543.1	1529.2
77.5°	392.7	399.4	427.0	470.0	603.1	722.3	789.4	868.7	883.6	960.9	915.9
80°	108.0	125.4	153.1	225.3	386.5	460.7	491.0	487.9	491.0	467.4	452.1
82.5°	22.0	21.5	26.1	40.5	170.5	268.3	289.8	246.8	245.2	236.0	243.7
85°	5.7	5.1	6.1	12.8	29.2	79.3	99.8	55.8	42.5	40.5	35.8
87.5°	1.6	1.6	1.6	2.6	3.1	4.1	5.7	4.1	3.1	3.1	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	76.8	76.8	76.3	75.8	75.8	75.3	74.8	74.2	73.8	73.2	72.7
5°	81.4	80.4	78.9	77.9	76.8	75.3	74.2	73.2	72.2	71.6	70.6
7.5°	87.5	85.0	83.0	79.9	77.9	75.8	73.8	72.2	70.6	69.6	68.6
10°	95.3	91.2	87.1	83.0	79.3	76.3	73.2	70.6	69.1	67.5	66.5
12.5°	104.9	98.8	93.2	87.1	81.4	76.8	72.7	69.6	67.5	66.0	64.5
15°	120.8	111.1	101.4	92.2	85.0	77.9	72.2	68.6	66.0	64.5	63.0
17.5°	145.9	128.5	113.1	100.4	88.6	79.3	72.2	67.5	64.5	62.4	60.9
20°	182.2	153.6	129.0	110.6	95.3	82.0	72.2	66.0	63.0	60.4	58.9
22.5°	225.3	189.4	155.6	124.9	102.9	85.5	72.2	64.5	60.9	58.9	56.8
25°	288.2	240.7	194.5	151.5	115.7	91.2	73.8	63.4	59.3	56.8	54.8
27.5°	362.0	304.7	247.3	186.9	135.2	99.3	75.8	62.4	57.9	54.8	52.7
30°	446.0	382.4	312.3	234.0	160.7	110.0	79.3	62.0	55.8	52.7	50.1
32.5°	537.0	470.0	393.2	294.4	198.6	126.4	84.0	61.4	53.8	50.1	47.1
35°	645.6	583.1	489.4	379.4	257.5	154.6	94.2	62.4	51.7	47.6	44.0
37.5°	764.4	697.8	598.5	469.5	315.9	186.3	101.9	60.9	48.1	44.0	40.5
40°	884.2	807.9	707.0	564.2	390.1	225.3	111.6	59.3	44.6	40.5	36.8
42.5°	1000.8	920.5	811.0	661.5	468.5	271.4	123.9	59.3	42.0	36.8	33.3
45°	1123.3	1026.5	906.7	754.6	546.2	324.1	141.3	58.9	38.9	33.8	29.7
47.5°	1238.9	1124.3	986.5	836.6	629.7	382.0	161.3	59.3	36.4	30.7	27.2
50°	1348.5	1216.9	1068.5	909.8	709.6	444.4	185.9	59.9	33.8	28.2	24.6
52.5°	1468.3	1322.4	1156.5	985.0	788.4	507.4	214.5	60.9	31.3	25.6	22.5
55°	1616.8	1455.0	1265.0	1077.1	871.8	570.8	242.1	62.0	28.7	23.5	20.5
57.5°	1830.8	1646.4	1441.1	1215.4	982.4	643.0	270.8	64.5	26.6	22.0	19.0
60°	2178.9	1959.3	1722.2	1456.0	1147.8	740.8	312.3	70.1	24.1	20.0	18.0
62.5°	2597.7	2333.5	2031.9	1708.9	1303.4	806.9	339.9	76.3	22.0	18.4	16.9
65°	2808.6	2475.8	2128.2	1779.5	1323.4	787.4	328.7	74.2	19.4	16.4	14.3
66°	2814.7	2468.1	2114.9	1764.2	1302.9	763.8	318.0	73.2	19.0	15.9	13.3
67.5°	2756.4	2402.1	2044.2	1694.6	1242.5	718.2	298.5	69.6	17.4	14.3	11.8
70°	2468.1	2123.1	1794.9	1471.9	1068.9	605.1	250.3	61.4	15.3	12.8	10.8
72.5°	1967.5	1686.4	1410.0	1158.1	830.9	454.1	197.6	50.1	13.3	11.3	9.2
75°	1374.1	1143.2	932.7	753.1	522.2	271.8	128.0	35.3	11.3	9.2	7.7
77.5°	766.9	608.2	459.7	350.1	208.4	85.0	42.5	18.0	9.8	7.2	6.1
80°	390.1	289.2	220.2	162.3	96.3	44.0	21.5	11.8	7.7	5.7	5.1
82.5°	226.8	166.4	132.6	104.9	66.0	33.3	17.4	8.7	5.1	4.1	4.7
85°	50.7	67.1	56.8	48.1	35.3	21.0	12.3	5.7	3.6	3.6	4.1
87.5°	4.1	5.7	5.1	6.7	7.2	6.7	5.1	3.1	2.6	3.1	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°	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
2.5°	72.2	71.6	71.6	71.2	70.6	70.6	70.6	70.1	70.6	70.6	70.6
5°	70.1	69.6	69.1	68.6	68.1	67.5	67.5	67.1	67.1	67.1	67.5
7.5°	68.1	67.1	66.5	65.5	65.0	64.5	64.5	64.0	64.0	64.0	64.0
10°	65.5	64.5	63.4	63.0	62.4	61.4	61.4	60.9	60.4	60.4	60.4
12.5°	63.4	62.4	61.4	60.4	59.3	58.9	58.3	57.9	57.3	57.3	57.3
15°	61.4	59.9	58.9	57.9	56.8	55.8	55.3	54.8	54.2	53.8	53.8
17.5°	59.3	57.9	56.3	55.3	54.2	53.2	52.7	51.2	51.2	50.7	50.7
20°	56.8	55.3	53.8	52.7	51.7	50.7	49.7	48.7	47.6	47.1	47.1
22.5°	54.8	53.2	51.7	50.1	48.7	47.1	46.0	45.0	44.6	44.0	43.5
25°	52.7	50.7	48.7	47.1	45.6	44.0	43.0	42.0	40.9	40.5	40.5
27.5°	50.1	48.1	46.0	44.0	42.5	40.9	39.9	38.4	37.9	37.4	36.8
30°	47.6	45.0	43.0	40.9	39.4	37.4	36.4	35.3	34.3	34.3	33.8
32.5°	44.6	42.0	39.9	37.9	35.8	34.3	33.3	32.3	31.7	30.7	30.7
35°	41.5	38.9	36.4	34.3	32.7	31.3	30.2	29.2	28.2	27.6	27.6
37.5°	37.9	35.3	33.3	31.3	29.7	28.2	27.2	26.1	25.6	25.1	24.6
40°	33.8	31.3	29.7	28.2	26.6	25.6	24.1	23.1	22.5	22.0	21.5
42.5°	30.2	27.6	26.6	25.6	24.1	23.1	21.5	20.5	19.4	19.0	18.4
45°	27.2	25.1	24.1	23.1	21.5	20.0	19.0	18.0	16.9	16.4	16.4
47.5°	24.1	22.5	21.5	20.5	19.0	18.0	16.4	15.9	14.9	14.9	14.9
50°	22.0	20.5	19.4	18.4	17.4	15.9	14.9	14.3	13.9	13.9	14.3
52.5°	20.5	19.0	18.0	16.9	15.9	14.9	13.9	13.3	13.3	13.9	14.3
55°	19.0	17.4	16.4	15.3	14.3	13.9	12.8	12.8	13.3	13.9	14.3
57.5°	18.0	15.9	14.9	14.3	13.3	12.8	12.8	12.8	13.3	13.9	14.9
60°	16.4	14.3	13.3	13.3	12.3	12.3	12.3	12.8	13.3	14.3	14.9
62.5°	14.3	12.8	12.3	12.3	11.8	11.8	12.3	12.8	13.9	14.3	14.9
65°	12.3	11.3	11.3	11.3	11.3	11.8	12.3	12.8	13.3	14.3	14.9
66°	11.3	10.8	10.8	11.3	11.3	11.8	12.3	12.8	13.3	13.9	14.3
67.5°	10.8	10.2	10.2	10.8	11.3	11.3	11.8	12.8	13.3	13.9	13.9
70°	9.2	9.2	9.2	10.2	10.8	11.3	11.8	12.3	12.8	13.3	13.9
72.5°	8.2	8.2	8.7	9.2	10.2	10.8	11.3	11.8	12.8	13.3	13.3
75°	7.2	7.2	8.2	8.7	9.8	10.2	11.3	11.8	12.3	12.8	12.8
77.5°	6.1	6.7	7.7	8.7	9.2	10.2	10.8	11.3	11.8	12.3	12.3
80°	5.7	6.7	7.7	8.2	8.7	9.2	9.8	10.8	11.3	11.8	12.3
82.5°	5.7	6.1	7.2	7.7	8.2	9.2	9.8	10.2	10.8	11.3	11.8
85°	4.7	5.7	6.1	7.2	7.7	8.7	9.2	9.2	9.8	10.2	10.8
87.5°	3.6	4.1	4.1	5.1	5.7	6.7	7.7	7.7	8.2	8.7	9.2
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-F02-LED-E1-T4-HSS

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	74.2	74.2	74.2	74.2
2.5°	70.6	71.2	71.2	71.2
5°	67.5	67.5	67.5	67.5
7.5°	64.0	64.0	64.0	64.0
10°	60.4	60.4	60.9	60.4
12.5°	57.3	56.8	56.8	56.8
15°	53.8	53.8	53.2	53.8
17.5°	50.1	50.1	49.7	49.7
20°	46.6	46.6	46.6	46.6
22.5°	43.5	43.0	43.0	43.0
25°	39.9	39.9	39.9	39.9
27.5°	36.8	36.8	36.8	36.8
30°	33.8	33.8	33.3	33.3
32.5°	30.7	30.7	30.7	30.7
35°	27.6	27.6	27.2	27.2
37.5°	24.1	24.1	24.1	24.1
40°	21.0	21.0	21.0	21.0
42.5°	18.4	18.4	18.0	18.0
45°	15.9	15.9	15.9	15.9
47.5°	14.9	14.9	14.9	14.9
50°	14.3	14.9	14.9	14.9
52.5°	14.9	14.9	14.9	14.9
55°	14.9	15.3	15.3	15.3
57.5°	14.9	15.3	15.3	15.9
60°	15.3	15.9	15.9	15.9
62.5°	15.3	15.9	15.9	15.9
65°	14.9	15.3	15.3	15.3
66°	14.9	14.9	14.9	15.3
67.5°	14.3	14.9	14.9	14.9
70°	13.9	14.3	14.3	14.9
72.5°	13.9	14.3	14.3	14.3
75°	13.3	13.3	13.9	13.9
77.5°	12.8	12.8	13.3	13.3
80°	12.3	12.8	12.8	12.8
82.5°	11.8	12.3	12.3	12.3
85°	10.8	11.3	11.3	11.3
87.5°	9.2	9.2	9.8	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)