

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: P180872

Luminaire Tested: **ICM-F02-LED-E1-SL4-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P180872  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
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-SL4-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4144 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

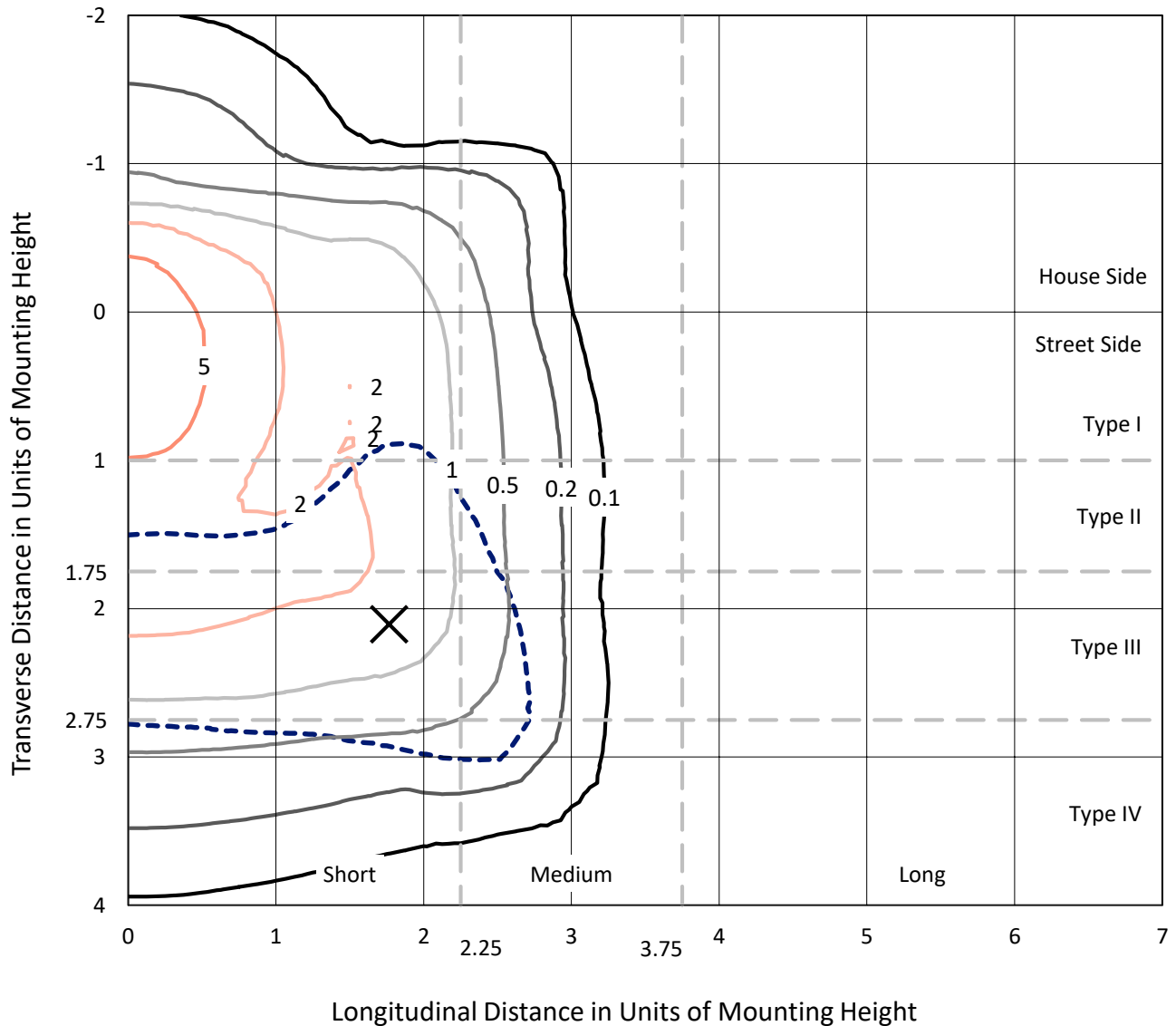
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

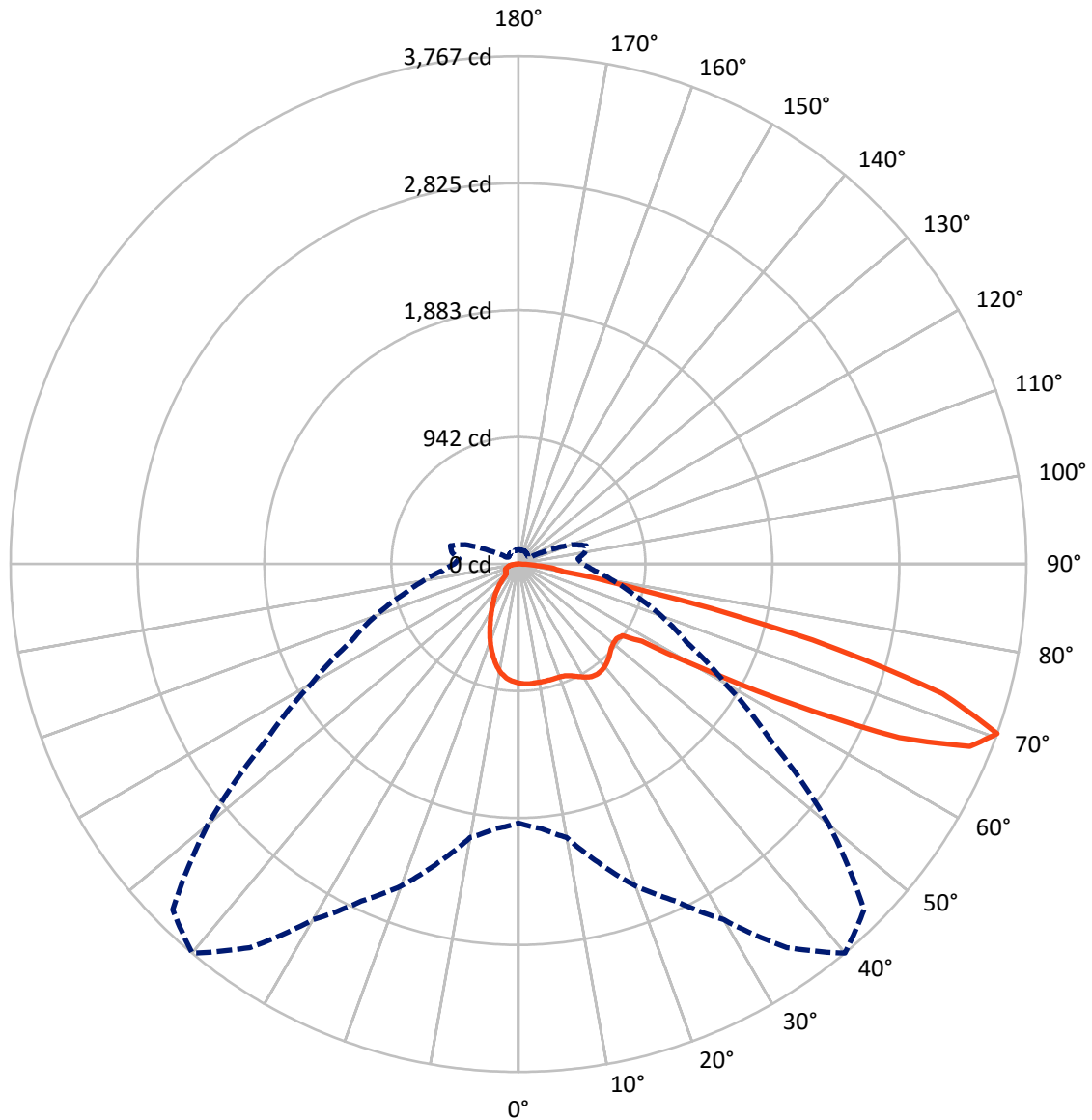
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	860.2	0.0	860.2
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	3283.7	0.0	3283.7
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	4144.0	0.0	4144.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	2.0
10°-20°	226.1	5.5
20°-30°	334.8	8.1
30°-40°	423.1	10.2
40°-50°	478.4	11.5
50°-60°	680.8	16.4
60°-70°	1268.0	30.6
70°-80°	581.1	14.0
80°-90°	69.0	1.7
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°	4144.0	100.0
0°-180°	4144.0	100.0



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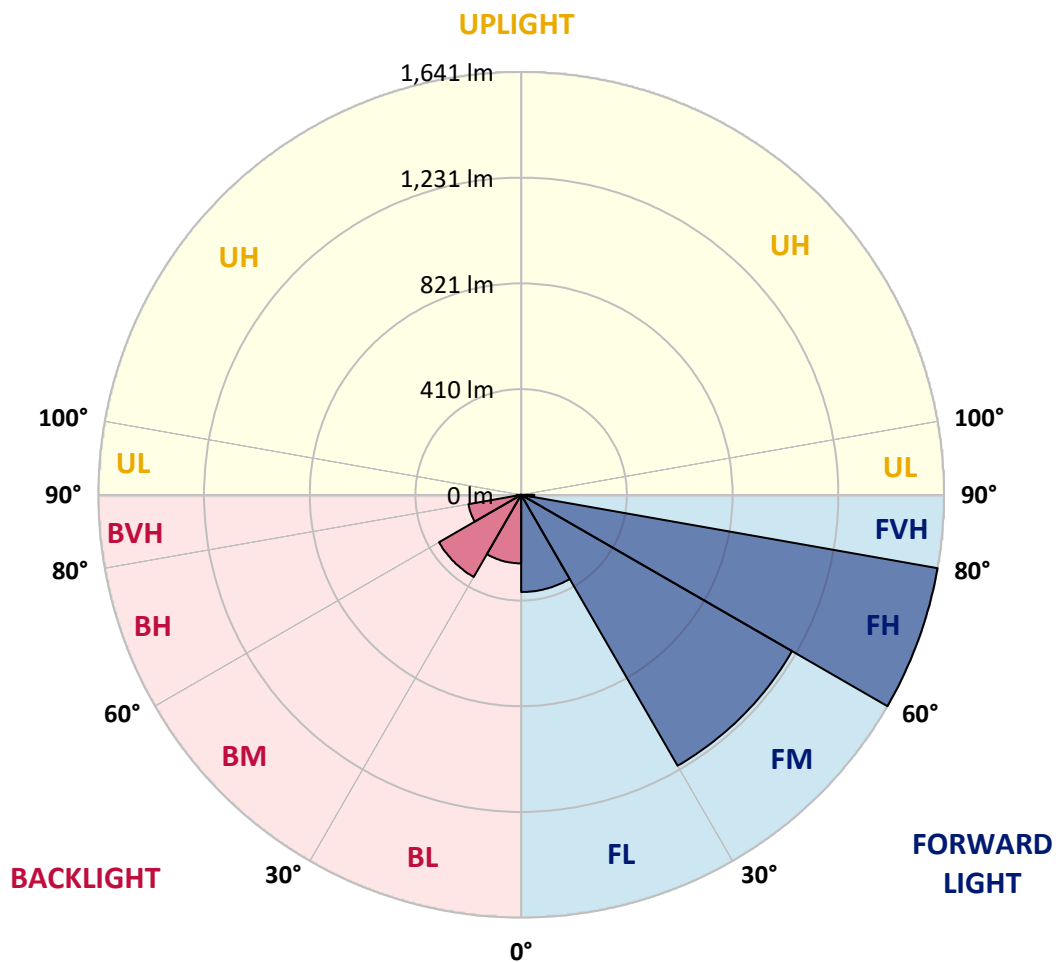
CATALOG NUMBER: ICM-F02-LED-E1-SL4-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.3	9.1			
FM	(30°-60°)	1214.1	29.3			
FH	(60°-80°)	1641.2	39.6			G1/1800
FVH	(80°-90°)	51.2	1.2			G1/100
BL	(0°-30°)	266.2	6.4	B1/500		
BM	(30°-60°)	368.3	8.9	B1/1000		
BH	(60°-80°)	208.0	5.0	B1/500		G1/500
BVH	(80°-90°)	17.8	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2
2.5°	897.8	900.1	897.3	896.8	896.8	896.4	893.6	893.1	889.4	889.9	890.8
5°	904.3	905.3	903.4	902.9	902.0	900.1	897.8	895.0	892.2	889.4	887.1
7.5°	910.9	910.0	908.6	908.6	907.2	904.3	899.6	895.9	889.9	886.5	882.3
10°	920.2	918.8	916.9	916.0	913.7	909.5	902.9	897.8	890.3	883.7	876.7
12.5°	929.1	928.7	925.9	924.5	920.7	916.5	908.6	900.6	890.8	880.5	871.2
15°	945.0	943.2	940.4	937.5	931.4	925.9	913.7	904.3	890.3	876.7	862.2
17.5°	972.6	969.3	966.5	960.5	952.9	943.2	925.4	909.5	890.3	870.7	854.3
20°	1023.1	1016.1	1012.4	1004.4	991.3	973.5	946.0	920.2	891.7	866.4	844.5
22.5°	1080.1	1075.4	1070.3	1065.2	1044.6	1018.9	981.5	943.2	900.1	864.6	836.6
25°	1144.2	1138.1	1135.4	1126.4	1107.3	1077.8	1026.8	973.5	919.3	872.1	836.6
27.5°	1201.2	1199.4	1198.9	1188.7	1170.4	1135.8	1075.4	1011.4	945.5	887.5	843.5
30°	1253.1	1251.3	1250.3	1244.8	1223.7	1182.5	1117.1	1045.1	974.0	909.0	856.7
32.5°	1308.3	1302.2	1299.4	1288.7	1264.8	1216.7	1141.9	1067.1	996.5	930.1	871.2
35°	1353.2	1348.1	1342.4	1327.1	1293.4	1236.3	1152.7	1074.5	1005.3	941.8	878.6
37.5°	1386.0	1380.8	1372.8	1353.2	1311.6	1242.9	1152.2	1072.2	1002.1	939.9	880.0
40°	1400.5	1395.3	1386.9	1362.1	1314.9	1239.2	1143.3	1061.4	992.2	930.1	874.4
42.5°	1394.8	1391.1	1380.4	1356.5	1304.6	1222.3	1125.5	1041.3	973.5	914.1	861.8
45°	1373.3	1370.5	1360.2	1335.0	1281.2	1195.2	1099.4	1016.1	951.1	894.5	844.9
47.5°	1341.0	1340.1	1329.9	1305.0	1251.7	1168.1	1072.2	991.3	928.7	875.4	830.9
50°	1305.5	1300.8	1295.7	1272.8	1224.2	1144.7	1052.6	975.9	916.0	868.3	824.8
52.5°	1283.1	1281.7	1277.0	1256.5	1209.7	1131.1	1043.6	970.2	915.1	866.9	821.6
55°	1482.2	1485.6	1442.5	1353.2	1274.7	1168.6	1070.3	998.8	938.0	889.4	856.2
57.5°	2192.6	2178.1	2104.2	1927.0	1726.8	1462.6	1272.3	1156.8	1081.6	1090.0	1106.8
60°	2554.4	2551.6	2538.2	2469.4	2336.1	2135.1	1912.0	1656.2	1574.9	1583.7	1590.3
62.5°	2716.3	2720.5	2730.7	2705.0	2670.0	2611.6	2500.2	2397.3	2288.4	2247.7	2138.8
65°	2791.1	2798.5	2822.0	2836.4	2850.0	2860.3	2904.2	3024.9	3104.4	2955.6	2609.7
67.5°	2636.3	2672.3	2749.5	2824.8	2892.1	2987.9	3136.7	3416.8	3611.7	3428.9	2927.2
70°	1921.8	1970.9	2059.3	2292.2	2540.9	2758.3	3046.3	3472.9	3766.9	3625.7	3005.7
72.5°	1205.0	1218.5	1257.9	1343.4	1528.1	1807.3	2310.9	2950.5	3290.0	3177.3	2540.5
75°	764.6	769.2	767.8	787.4	818.8	879.5	1078.7	1742.7	2253.8	2078.0	1415.9
77.5°	455.4	462.4	465.2	471.4	486.3	507.8	524.2	592.9	945.0	917.4	513.9
80°	381.6	387.2	382.5	381.1	371.7	365.2	373.1	365.2	339.0	326.4	300.7
82.5°	202.0	201.5	200.1	213.7	241.3	262.8	279.2	275.4	249.2	212.3	180.0
85°	110.8	114.6	114.6	119.3	115.1	115.5	119.3	125.8	116.5	97.3	79.5
87.5°	9.4	14.5	11.7	14.5	19.6	14.0	13.6	13.6	11.7	8.4	7.4
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2
2.5°	888.5	887.5	885.6	884.2	884.2	881.9	880.5	879.5	879.1	877.2	877.2
5°	885.6	882.3	879.1	876.7	875.4	873.0	869.2	867.4	865.0	863.2	862.2
7.5°	879.5	873.5	868.3	864.6	859.9	856.2	851.4	847.3	843.1	841.2	840.3
10°	870.2	862.2	854.3	847.3	840.7	834.1	828.1	822.1	816.9	813.1	809.4
12.5°	861.3	849.1	838.9	828.6	818.3	810.3	802.0	793.0	785.6	778.5	776.7
15°	849.1	835.2	822.1	809.4	796.7	783.7	773.4	763.5	751.4	743.4	737.4
17.5°	838.0	821.1	805.2	790.2	774.8	761.2	745.8	732.7	720.6	708.4	699.5
20°	825.8	807.5	790.7	773.9	757.0	739.7	722.0	705.1	690.1	675.6	661.2
22.5°	815.0	796.3	779.9	761.7	743.0	723.4	702.8	681.8	664.5	645.8	628.9
25°	808.5	787.9	771.1	753.3	732.7	711.2	687.8	663.1	642.1	620.5	600.4
27.5°	808.5	781.9	764.6	746.8	725.7	702.8	677.1	650.0	626.1	602.2	577.5
30°	815.4	782.8	759.4	740.7	719.2	694.4	665.9	637.3	611.2	583.1	559.3
32.5°	822.1	784.7	755.6	731.8	707.0	682.7	653.7	623.3	594.3	567.6	542.4
35°	826.2	784.7	748.7	718.2	690.1	666.3	637.8	607.4	578.0	551.7	528.4
37.5°	826.7	780.8	737.4	702.8	673.3	648.6	621.4	592.9	564.8	540.6	520.9
40°	822.1	773.4	726.1	686.4	655.5	630.3	605.5	579.8	554.6	534.4	517.6
42.5°	813.6	765.5	715.4	673.3	641.1	614.9	592.0	570.0	548.0	530.7	516.7
45°	801.0	754.7	705.6	665.4	633.6	606.1	583.5	565.3	546.6	532.1	518.0
47.5°	789.8	751.0	708.8	670.5	637.3	608.8	585.9	570.4	556.0	546.1	527.0
50°	787.4	749.1	710.2	674.7	641.1	612.1	592.0	584.0	579.8	573.8	544.3
52.5°	780.8	748.7	720.6	700.9	679.4	665.9	644.8	652.3	647.6	626.1	572.8
55°	849.6	859.0	885.1	922.6	957.1	965.1	962.8	953.9	906.7	779.9	641.6
57.5°	1168.1	1220.9	1270.4	1292.5	1289.6	1264.8	1247.1	1211.1	1142.8	988.5	777.1
60°	1610.4	1618.8	1592.7	1553.8	1488.4	1433.7	1375.2	1307.8	1208.8	1057.7	860.4
62.5°	2017.7	1904.5	1788.1	1678.7	1579.1	1492.1	1410.7	1316.8	1187.7	1030.1	849.6
65°	2305.2	2065.9	1882.1	1724.9	1584.2	1462.6	1361.1	1239.2	1093.7	951.5	787.4
67.5°	2453.5	2086.4	1804.5	1585.6	1386.0	1217.6	1082.5	963.7	855.7	793.5	689.2
70°	2287.9	1770.8	1378.0	1130.6	891.7	715.0	564.8	474.1	442.8	501.8	521.9
72.5°	1704.8	1152.7	819.7	634.1	485.9	387.2	296.9	233.3	189.9	199.2	258.6
75°	806.1	497.5	351.6	267.4	212.7	176.3	144.0	131.9	110.3	91.6	86.0
77.5°	313.8	228.7	188.9	138.4	98.2	79.0	67.3	65.0	66.4	64.6	63.6
80°	239.0	161.8	101.5	74.3	64.1	56.6	50.0	48.2	49.1	51.4	53.8
82.5°	133.3	83.3	61.8	53.8	48.2	41.1	37.4	34.6	35.1	37.9	43.0
85°	51.4	40.2	36.9	35.5	33.2	26.7	22.9	23.3	26.7	31.8	31.8
87.5°	5.6	5.6	7.4	5.6	5.6	5.6	5.1	6.0	6.5	8.4	9.9
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°	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2	884.2
2.5°	876.3	876.3	876.3	875.4	875.8	874.0	874.0	872.6	874.9	873.5	873.0
5°	862.7	862.2	860.4	860.4	860.4	860.4	861.8	858.1	860.8	860.8	859.4
7.5°	839.8	839.8	834.7	837.5	836.6	838.0	839.8	838.0	840.7	842.6	841.2
10°	808.0	808.0	803.8	807.1	805.7	808.9	812.2	810.3	812.2	815.0	815.9
12.5°	772.9	771.1	767.4	768.7	768.7	770.6	772.0	774.3	776.7	780.4	782.3
15°	732.3	729.5	724.7	724.7	722.0	722.9	725.7	726.6	731.4	736.5	742.5
17.5°	690.6	683.6	678.5	672.4	667.7	671.4	674.7	677.1	680.8	688.7	692.9
20°	651.4	637.3	627.5	619.5	614.4	616.7	620.9	623.8	627.1	628.9	630.3
22.5°	612.6	596.7	583.1	573.3	564.8	567.2	565.3	563.9	566.2	560.2	559.7
25°	578.9	560.2	542.0	530.2	520.0	516.7	506.9	504.6	498.0	492.8	489.1
27.5°	554.6	530.2	510.1	496.6	480.2	468.1	455.4	442.8	435.8	427.4	423.2
30°	535.4	509.7	485.9	462.9	441.4	422.7	405.9	389.5	378.3	366.1	358.1
32.5°	517.6	493.8	464.7	433.5	404.5	383.4	361.5	342.8	325.0	309.1	297.4
35°	505.5	478.8	441.9	403.5	370.8	346.0	322.6	296.0	274.5	253.9	241.3
37.5°	498.9	466.2	420.8	378.3	341.8	313.8	284.7	253.9	227.7	208.6	189.4
40°	493.8	453.6	402.1	355.8	317.5	283.8	250.1	213.7	184.7	164.6	149.7
42.5°	488.2	439.5	385.8	338.0	295.5	256.3	215.5	176.7	149.1	135.2	128.6
45°	482.0	427.4	370.3	321.2	274.0	226.3	179.5	143.5	127.2	122.5	122.5
47.5°	480.7	419.4	359.1	304.8	249.7	191.7	146.3	123.9	119.3	120.2	122.0
50°	486.3	417.1	349.3	285.7	217.4	155.3	123.9	116.5	117.4	120.2	123.0
52.5°	499.8	419.0	339.0	259.1	179.1	128.1	114.6	114.0	116.9	121.1	123.9
55°	522.8	419.0	319.4	219.3	143.1	115.1	111.3	113.1	116.9	120.7	123.0
57.5°	571.9	414.8	284.7	175.3	119.7	110.3	110.3	112.7	116.0	119.7	121.6
60°	630.3	409.1	236.1	135.6	108.0	106.6	109.9	112.7	115.5	118.8	120.7
62.5°	634.1	394.6	187.1	112.2	102.0	104.3	109.4	113.1	114.0	116.5	118.8
65°	582.6	344.2	148.7	100.6	99.2	102.9	108.0	110.8	111.3	112.2	114.6
67.5°	510.1	280.6	120.2	94.9	96.3	100.6	103.3	105.7	107.1	109.4	109.9
70°	419.0	225.4	102.9	89.3	90.7	95.3	97.8	100.1	102.9	105.7	104.3
72.5°	296.9	175.3	90.2	83.3	85.1	89.3	92.1	94.0	96.3	99.2	97.3
75°	126.2	122.5	78.0	75.3	78.0	80.9	83.7	86.5	88.8	90.2	90.2
77.5°	64.6	72.0	67.3	67.3	69.2	72.0	74.3	77.1	78.5	80.0	81.9
80°	54.7	55.6	56.6	58.4	60.3	63.2	65.5	67.8	68.3	68.7	69.7
82.5°	45.4	47.3	48.2	51.0	52.4	53.3	54.7	54.7	55.6	55.6	54.2
85°	32.7	35.1	36.5	36.9	36.5	36.9	37.4	38.3	40.7	40.7	38.8
87.5°	9.4	8.9	11.3	11.7	12.7	14.5	16.4	19.6	20.6	21.5	21.5
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-SL4-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	884.2	884.2	884.2	884.2
2.5°	872.6	873.5	871.6	872.1
5°	859.4	861.3	859.0	861.8
7.5°	842.6	845.4	844.9	844.5
10°	818.3	822.1	822.1	823.4
12.5°	787.4	789.8	791.6	792.6
15°	745.8	750.1	752.4	752.4
17.5°	695.8	698.6	700.0	698.1
20°	632.2	631.3	631.7	627.1
22.5°	558.8	560.2	556.0	556.9
25°	486.8	484.5	486.3	483.5
27.5°	417.1	417.6	412.4	414.8
30°	350.7	348.4	341.8	345.1
32.5°	286.6	280.6	273.6	269.3
35°	226.3	216.9	213.7	212.3
37.5°	177.7	167.4	164.1	160.4
40°	141.2	137.5	136.1	137.0
42.5°	126.7	126.7	127.6	128.1
45°	123.0	124.4	125.8	126.2
47.5°	123.4	124.8	126.7	127.2
50°	124.4	125.8	127.2	127.6
52.5°	124.8	124.8	125.8	126.2
55°	123.9	123.4	123.9	124.4
57.5°	122.0	121.1	121.6	123.0
60°	121.1	119.7	120.7	121.6
62.5°	118.8	118.3	119.3	119.7
65°	113.6	114.0	115.5	115.5
67.5°	108.9	109.4	109.9	110.3
70°	103.3	103.8	104.7	105.2
72.5°	96.8	98.7	100.1	102.0
75°	91.6	93.5	96.3	98.2
77.5°	82.8	84.2	87.4	89.8
80°	70.1	69.7	70.1	71.5
82.5°	53.8	53.8	53.3	52.8
85°	37.9	37.4	36.0	36.0
87.5°	20.6	20.1	19.6	18.7
90°	0.0	0.0	0.0	0.0

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