

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: P181174

Luminaire Tested: **ICM-F03-LED-E1-T2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181174
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F03-LED-E1-T2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.4 lumens
Efficiency: N/A
Efficacy: 43.0 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: B0 - U0 - G1

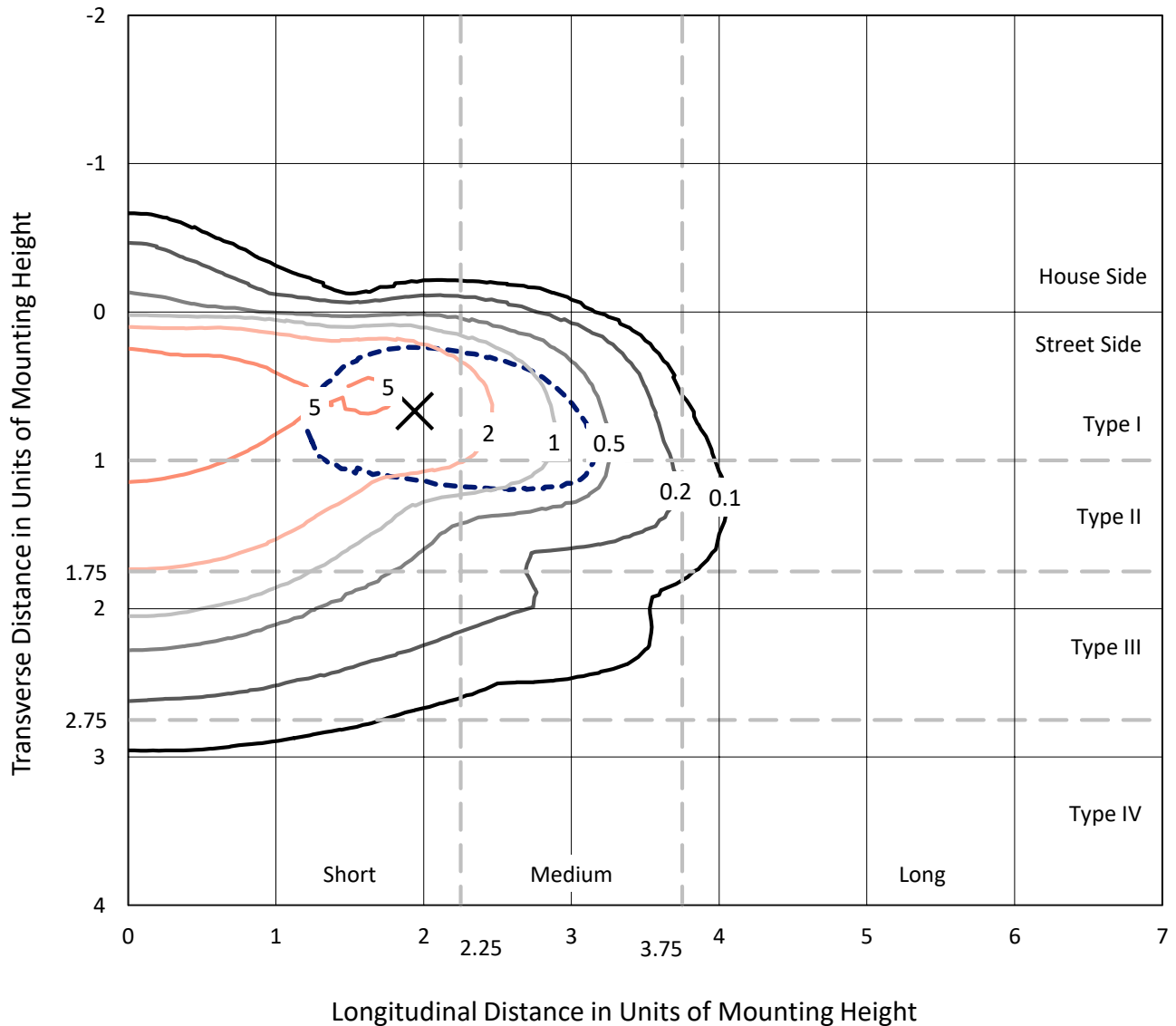
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

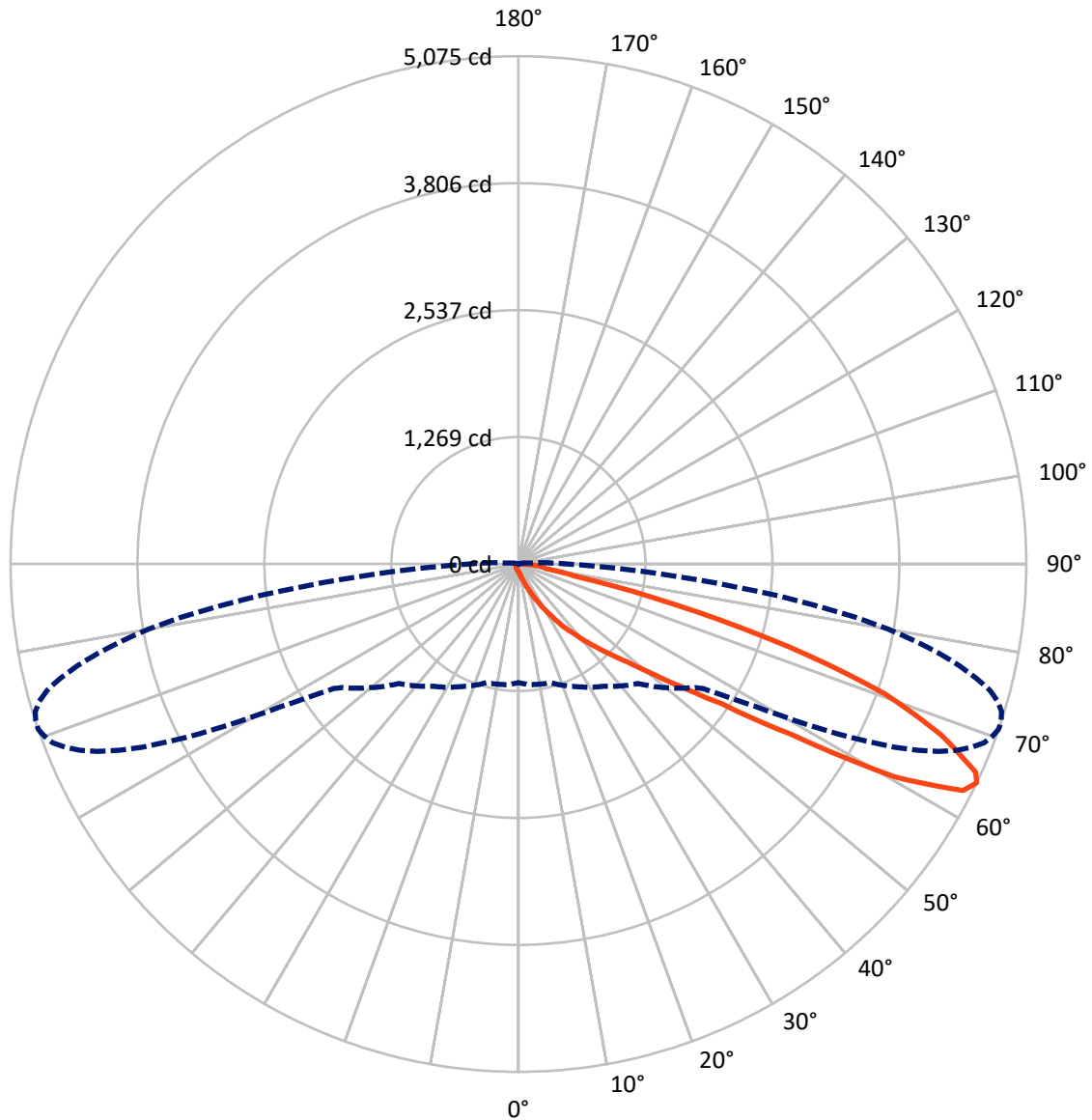
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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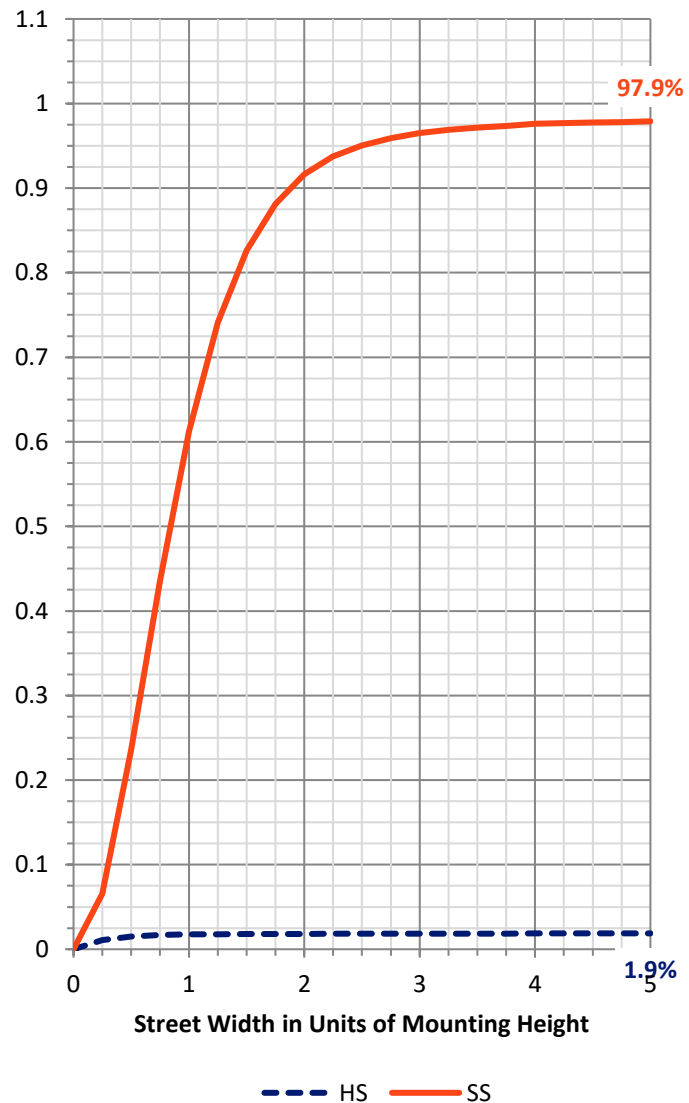
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.5	0.0	64.5
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	3304.9	0.0	3304.9
	% Fixture	98.1	0.0	98.1
Total	Lumens	3369.4	0.0	3369.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.3
10°-20°	60.9	1.8
20°-30°	155.6	4.6
30°-40°	314.7	9.3
40°-50°	575.3	17.1
50°-60°	896.3	26.6
60°-70°	996.3	29.6
70°-80°	324.9	9.6
80°-90°	35.0	1.0
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°	3369.4	100.0
0°-180°	3369.4	100.0



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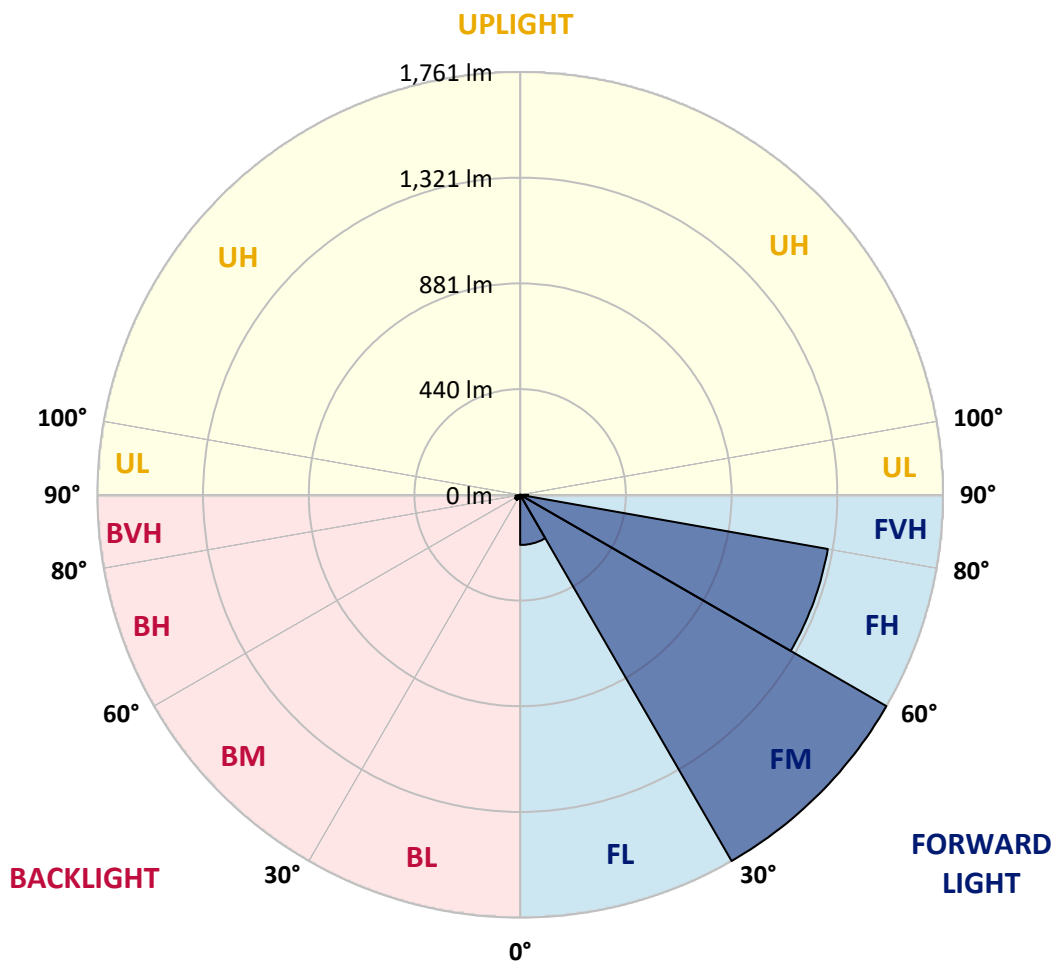
CATALOG NUMBER: ICM-F03-LED-E1-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.9	6.2			
FM	(30°-60°)	1761.4	52.3			
FH	(60°-80°)	1301.3	38.6			G1/1800
FVH	(80°-90°)	33.3	1.0			G1/100
BL	(0°-30°)	18.0	0.5	B0/110		
BM	(30°-60°)	24.9	0.7	B0/220		
BH	(60°-80°)	19.9	0.6	B0/110		G0/110
BVH	(80°-90°)	1.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	101.0	99.6	99.6	97.5	94.7	91.9	89.1	88.4	87.6	87.0	87.0
5°	158.5	152.9	150.8	143.1	133.3	121.3	110.8	108.0	108.0	106.0	104.5
7.5°	249.0	246.2	231.4	223.7	200.6	171.8	141.7	138.9	138.1	135.3	131.2
10°	364.7	359.1	348.6	326.1	284.1	234.2	191.4	184.5	179.5	174.0	168.4
12.5°	480.5	473.4	458.0	421.6	379.4	315.6	246.9	240.6	232.8	225.1	216.0
15°	596.2	591.3	567.4	531.0	476.3	399.8	312.8	301.6	295.3	279.8	272.8
17.5°	696.5	690.1	671.3	629.9	573.0	488.8	385.8	371.7	361.2	352.1	335.3
20°	783.4	777.1	758.9	724.6	660.7	578.0	464.3	457.3	438.3	424.4	414.5
22.5°	836.7	834.7	822.7	789.8	732.9	659.4	554.1	542.9	530.2	511.4	500.1
25°	869.8	867.6	860.6	837.5	798.9	744.8	653.0	639.0	627.7	610.9	596.8
27.5°	904.1	902.7	897.1	876.7	856.4	822.7	753.3	745.6	721.0	711.2	697.9
30°	960.9	954.6	959.5	949.7	923.7	902.7	854.3	843.1	832.6	815.7	803.8
32.5°	1051.4	1040.8	1051.4	1040.8	1029.7	1004.4	958.1	954.6	944.1	933.6	916.7
35°	1162.2	1158.0	1166.4	1175.5	1166.4	1132.8	1076.7	1066.1	1061.9	1045.1	1038.8
37.5°	1273.8	1281.4	1296.8	1317.2	1311.6	1287.1	1207.8	1198.0	1190.2	1175.5	1164.3
40°	1393.7	1394.3	1427.4	1456.8	1471.5	1456.8	1352.3	1344.6	1334.1	1313.0	1310.2
42.5°	1524.1	1518.5	1543.1	1576.0	1606.1	1626.5	1543.1	1528.4	1513.6	1489.8	1473.6
45°	1639.8	1639.8	1659.5	1690.3	1736.7	1787.8	1744.4	1728.9	1714.9	1695.3	1677.0
47.5°	1725.4	1726.2	1738.1	1783.0	1855.2	1931.6	1933.0	1935.8	1925.3	1902.2	1902.9
50°	1785.8	1778.1	1794.2	1837.7	1921.1	2041.0	2127.4	2132.2	2140.7	2121.7	2127.4
52.5°	1830.0	1826.4	1836.9	1873.4	1956.8	2103.5	2286.5	2307.5	2320.2	2323.0	2346.2
55°	1806.8	1808.8	1834.2	1886.7	1976.6	2144.9	2421.9	2456.3	2485.8	2511.0	2539.7
57.5°	1730.3	1736.7	1780.8	1862.9	1980.8	2178.5	2565.7	2618.3	2673.7	2741.0	2797.9
60°	1608.3	1623.0	1682.6	1797.7	1940.0	2134.3	2608.5	2689.1	2774.0	2876.4	2990.7
62.5°	1429.4	1432.3	1471.5	1583.1	1740.2	1899.4	2412.1	2515.2	2627.5	2775.5	2935.4
64°	1184.7	1209.9	1228.1	1350.9	1491.2	1689.7	2152.6	2224.1	2380.6	2562.2	2763.5
65°	977.8	1007.9	1022.6	1145.4	1306.0	1495.4	1926.7	2003.2	2168.0	2352.5	2603.6
67.5°	576.6	556.2	599.0	671.3	805.9	1030.3	1299.6	1357.9	1480.7	1700.2	1900.8
70°	371.7	371.7	411.0	484.7	609.5	781.3	892.8	868.3	894.2	979.2	1120.8
72.5°	238.5	251.1	275.0	337.4	453.1	655.1	912.5	796.7	736.5	708.4	707.0
75°	108.7	115.7	141.7	178.9	242.0	427.2	920.2	869.8	814.3	761.0	719.6
77.5°	23.2	26.7	44.9	92.6	117.9	197.1	653.0	728.7	789.0	806.6	806.6
80°	11.9	12.7	19.0	43.4	50.5	66.6	251.8	331.1	408.2	510.0	616.6
82.5°	4.9	5.6	11.3	19.6	21.0	20.4	66.6	84.2	115.7	168.4	251.1
85°	1.4	1.4	4.9	7.7	11.3	9.1	14.7	16.8	21.8	31.5	60.3
87.5°	0.0	0.0	0.7	1.4	2.1	3.5	4.2	4.2	4.2	4.2	4.2
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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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	86.2	86.2	85.6	84.8	84.8	83.4	83.4	82.8	82.8	82.0	82.0
5°	103.8	102.4	101.0	98.9	98.2	96.8	95.3	94.0	92.6	91.9	90.5
7.5°	129.0	127.6	123.4	120.7	117.1	115.1	112.2	110.1	108.0	106.6	103.8
10°	162.7	157.8	155.7	145.9	143.8	138.9	134.7	131.9	126.2	122.7	119.3
12.5°	210.4	201.3	197.8	180.9	176.1	169.0	164.1	157.1	150.8	146.6	140.3
15°	264.5	257.4	244.1	227.3	218.1	210.4	198.5	192.8	184.5	175.3	166.2
17.5°	328.9	316.4	301.6	279.8	268.7	256.7	245.5	233.6	219.5	211.2	201.3
20°	404.0	390.7	372.5	345.1	331.7	319.8	300.2	291.8	275.0	258.1	245.5
22.5°	486.0	472.7	455.2	424.4	406.8	387.2	371.1	356.3	336.7	319.8	305.1
25°	578.6	563.3	549.9	514.1	492.4	472.0	454.5	428.6	411.7	392.1	371.7
27.5°	683.8	665.6	648.1	608.8	588.5	566.0	545.0	517.6	501.5	469.2	450.3
30°	791.9	769.4	751.2	711.2	692.9	669.9	641.1	616.6	589.2	567.4	536.6
32.5°	905.5	887.3	872.6	830.4	807.3	778.5	752.6	726.6	702.8	667.7	639.6
35°	1026.8	1010.7	994.6	958.1	937.8	916.0	886.5	855.0	822.1	785.6	760.3
37.5°	1154.5	1141.9	1129.2	1085.0	1061.2	1038.1	1004.4	972.8	943.4	904.8	862.1
40°	1288.5	1276.6	1256.2	1219.7	1194.5	1173.4	1142.6	1113.1	1073.1	1030.3	992.5
42.5°	1456.8	1430.8	1413.3	1373.3	1346.7	1323.5	1296.2	1252.0	1218.3	1167.1	1130.6
45°	1653.9	1629.3	1600.6	1559.9	1526.9	1489.0	1450.5	1420.3	1378.2	1331.9	1284.9
47.5°	1875.5	1855.9	1822.2	1782.2	1749.3	1711.4	1665.8	1627.3	1576.0	1522.1	1458.2
50°	2119.6	2099.3	2076.8	2031.9	1999.0	1963.2	1927.5	1881.9	1835.5	1771.0	1705.1
52.5°	2346.2	2350.3	2337.0	2316.0	2299.8	2262.7	2229.7	2186.2	2145.6	2086.6	2035.5
55°	2569.9	2606.3	2620.4	2640.8	2647.7	2617.6	2616.9	2553.0	2528.5	2494.2	2464.7
57.5°	2865.2	2945.9	3009.7	3133.1	3185.0	3237.6	3247.5	3202.5	3248.9	3189.2	3209.6
60°	3116.3	3264.3	3422.8	3742.0	3901.9	4022.5	4119.3	4190.8	4237.1	4315.7	4319.8
62.5°	3138.7	3371.6	3612.9	4078.6	4297.4	4480.5	4655.2	4777.1	4874.0	4963.1	4984.8
64°	3031.5	3319.7	3612.9	4176.1	4399.8	4603.3	4762.4	4883.8	4982.7	5038.1	5074.5
65°	2836.4	3159.1	3496.5	4111.6	4342.4	4558.4	4710.5	4832.6	4925.9	4981.3	5019.2
67.5°	2101.4	2413.5	2752.3	3468.4	3831.7	4029.5	4224.5	4395.7	4470.7	4540.9	4554.2
70°	1280.8	1507.3	1740.8	2405.0	2742.4	3098.1	3317.6	3568.0	3743.4	3851.4	3887.1
72.5°	772.9	851.4	991.1	1348.1	1671.5	1921.1	2224.9	2464.0	2660.4	2769.1	2823.8
75°	688.1	678.2	696.5	845.2	960.2	1110.3	1220.4	1370.5	1491.8	1529.8	1600.6
77.5°	795.4	767.4	738.6	710.5	704.9	690.9	668.5	674.1	620.7	569.5	571.0
80°	708.4	775.7	815.7	786.2	719.6	652.3	569.5	466.4	364.7	301.6	275.0
82.5°	355.6	505.7	650.2	793.3	783.4	723.8	632.7	519.7	402.6	309.3	246.9
85°	109.4	194.3	273.6	380.2	441.2	432.7	380.2	369.7	263.7	205.5	158.5
87.5°	4.9	4.9	4.9	4.2	4.9	4.9	4.9	5.6	5.6	6.3	6.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	82.0	81.4	80.7	80.0	80.0	80.0	79.3	79.3	78.5	78.5	77.9
5°	90.5	89.1	88.4	87.0	87.0	85.6	84.8	84.2	82.8	82.0	81.4
7.5°	101.7	100.3	98.2	96.1	95.3	93.3	91.2	89.8	88.4	87.0	85.6
10°	116.5	113.6	109.4	106.6	104.5	101.7	98.9	96.8	94.0	91.2	89.8
12.5°	135.3	129.8	125.6	120.7	116.5	112.2	107.3	104.5	101.7	97.5	94.7
15°	157.1	151.5	146.6	138.1	131.2	125.6	121.3	115.1	110.1	104.5	100.3
17.5°	194.3	179.5	169.8	161.3	154.3	143.8	135.3	128.4	122.0	115.1	110.1
20°	230.8	218.1	204.8	195.0	179.5	170.4	159.3	149.4	138.1	129.8	121.3
22.5°	284.1	267.9	251.1	236.4	215.4	202.7	188.0	175.3	161.3	147.3	138.1
25°	351.4	327.5	305.1	284.1	264.5	245.5	226.5	206.2	191.4	174.6	159.3
27.5°	422.2	395.6	373.9	346.5	321.2	298.0	274.2	252.5	227.3	205.5	187.3
30°	511.4	474.9	449.6	416.7	391.4	359.1	329.7	300.9	270.0	244.7	218.8
32.5°	601.8	577.2	534.4	506.4	468.6	430.0	399.1	366.1	328.3	295.3	263.7
35°	721.0	679.0	643.2	603.9	562.5	522.5	482.5	435.5	397.0	356.3	317.8
37.5°	826.2	783.4	742.1	690.9	643.9	601.8	553.4	504.3	458.7	410.3	364.0
40°	948.3	895.0	845.9	798.1	740.0	690.1	639.6	578.6	526.0	472.7	418.0
42.5°	1081.6	1027.5	969.3	914.6	850.8	789.8	727.4	666.3	607.4	542.9	479.1
45°	1227.4	1170.6	1105.4	1043.0	973.5	906.2	831.8	761.7	692.3	620.0	546.4
47.5°	1408.4	1335.5	1275.2	1197.3	1111.0	1040.2	949.0	869.0	789.8	705.6	622.8
50°	1642.7	1559.9	1472.9	1386.6	1291.3	1201.5	1100.5	1005.8	899.9	805.9	711.2
52.5°	1953.4	1891.6	1790.6	1691.7	1575.4	1461.0	1322.1	1199.4	1063.4	943.4	827.6
55°	2394.5	2353.9	2266.2	2158.2	2056.5	1889.6	1729.6	1538.9	1362.1	1189.6	1026.8
57.5°	3193.4	3149.2	3051.7	3025.8	2869.4	2746.6	2559.4	2312.5	2013.0	1749.3	1486.2
60°	4343.7	4257.4	4162.1	4144.5	3960.8	3831.7	3645.9	3382.8	3100.9	2680.0	2321.6
62.5°	4986.2	4960.2	4883.1	4788.4	4629.2	4437.7	4228.7	3974.1	3687.9	3319.0	2892.6
64°	5072.5	5048.6	4982.0	4875.4	4715.5	4525.4	4293.9	4040.0	3753.1	3416.5	3027.2
65°	5018.4	4984.8	4928.0	4829.8	4681.1	4498.7	4265.9	4008.5	3717.4	3393.3	3031.5
67.5°	4582.9	4567.5	4515.6	4424.4	4331.1	4167.0	3962.2	3732.1	3494.3	3173.1	2876.4
70°	3891.4	3880.1	3814.2	3777.7	3623.4	3519.6	3354.1	3173.1	2962.7	2738.9	2486.4
72.5°	2884.9	2847.0	2793.7	2738.2	2633.7	2491.4	2362.3	2169.4	2060.7	1872.0	1729.6
75°	1529.8	1505.9	1423.2	1307.4	1178.3	1111.7	977.8	857.8	762.4	719.6	616.6
77.5°	528.8	481.9	435.5	383.6	304.4	239.9	191.4	152.9	120.7	106.6	89.1
80°	263.7	250.4	235.6	206.2	173.2	139.5	109.4	86.2	70.9	60.3	54.0
82.5°	214.0	189.4	169.0	148.0	118.5	97.5	77.1	63.2	51.9	45.6	40.0
85°	126.2	96.8	73.7	66.6	51.9	44.9	38.6	32.9	28.1	26.7	24.6
87.5°	4.9	6.3	6.3	4.9	6.3	5.6	5.6	4.9	4.9	4.9	4.9
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	77.9	77.1	77.1	76.5	75.7	75.7	75.7	75.1	73.7	70.9	68.7
5°	80.7	80.0	79.3	77.9	77.1	76.5	75.7	75.7	72.3	67.3	63.8
7.5°	84.2	82.8	81.4	80.0	79.3	77.9	76.5	75.7	70.9	64.6	61.0
10°	87.6	85.6	83.4	82.8	80.7	79.3	77.1	75.7	70.1	62.4	57.5
12.5°	91.9	89.1	86.2	84.2	81.4	80.0	77.9	75.7	68.7	60.3	54.7
15°	96.8	92.6	89.1	87.0	84.2	80.7	77.9	75.7	67.3	58.2	51.9
17.5°	103.1	98.2	94.0	89.8	85.6	82.0	79.3	76.5	65.2	55.4	48.4
20°	112.9	106.6	99.6	94.7	89.1	84.8	80.0	76.5	63.8	52.6	45.6
22.5°	126.2	116.5	108.7	100.3	93.3	87.6	82.0	77.9	61.8	49.8	42.0
25°	145.2	132.6	119.9	109.4	100.3	92.6	85.6	80.0	60.3	47.7	40.0
27.5°	166.2	151.5	134.7	122.0	109.4	98.2	90.5	83.4	60.3	46.3	37.9
30°	195.7	174.6	154.3	138.1	121.3	108.7	97.5	88.4	60.3	45.6	35.8
32.5°	231.4	207.6	181.7	158.5	138.9	120.7	106.6	94.7	61.8	44.2	34.3
35°	281.3	246.2	215.4	186.6	160.7	139.5	121.3	105.2	63.8	43.4	32.3
37.5°	320.6	278.4	239.2	206.2	176.1	150.1	127.0	109.4	61.8	40.7	30.1
40°	367.5	319.8	272.1	230.8	196.4	162.7	136.1	115.1	60.3	37.2	27.3
42.5°	424.4	364.7	309.3	262.3	219.5	179.5	148.0	122.0	60.3	35.1	25.2
45°	477.7	412.4	350.7	291.8	242.0	197.8	159.3	129.8	59.6	32.9	22.4
47.5°	543.5	466.4	394.1	326.1	268.7	214.6	171.2	136.7	58.9	30.9	20.4
50°	621.4	527.4	446.0	364.7	294.6	235.0	185.2	144.5	57.5	28.7	18.2
52.5°	707.7	606.7	502.9	408.9	326.9	256.7	198.5	151.5	55.4	26.7	16.1
55°	860.6	721.8	599.0	482.5	375.9	288.9	218.1	162.0	53.3	24.6	14.0
57.5°	1227.4	997.4	823.4	648.1	495.2	371.1	271.4	192.2	50.5	21.8	11.3
60°	1927.5	1548.0	1252.7	982.6	749.1	569.5	399.8	284.1	54.0	18.2	9.9
62.5°	2472.4	2036.1	1660.2	1321.4	1026.1	779.9	582.1	424.4	77.9	16.1	7.7
64°	2614.8	2172.9	1771.7	1416.8	1109.6	855.7	649.5	479.7	100.3	16.1	7.0
65°	2635.8	2215.0	1811.7	1451.9	1138.3	876.0	669.1	498.0	109.4	16.8	6.3
67.5°	2548.9	2190.4	1823.6	1466.6	1160.1	904.1	695.8	526.7	123.4	16.1	4.9
70°	2226.2	1962.5	1660.9	1371.9	1094.1	859.2	669.1	510.6	129.0	15.4	4.2
72.5°	1515.0	1333.3	1155.2	950.4	761.7	627.7	488.2	359.8	90.5	12.7	3.5
75°	505.0	492.4	440.5	333.9	280.6	227.9	182.3	140.3	34.3	7.7	3.5
77.5°	84.2	72.3	63.2	60.3	50.5	49.1	42.8	34.3	14.7	4.9	3.5
80°	49.1	44.9	39.3	35.1	30.9	27.3	23.2	19.6	9.1	3.5	4.2
82.5°	36.5	32.3	28.7	25.2	21.8	19.0	16.1	13.3	4.9	3.5	4.2
85°	21.0	18.2	16.1	14.0	11.3	9.9	8.4	7.0	3.5	3.5	3.5
87.5°	4.2	4.2	3.5	3.5	3.5	3.5	3.5	2.8	3.5	3.5	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



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CATALOG NUMBER: ICM-F03-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	75.1	75.1	75.1	75.1	75.1	75.1	75.1
2.5°	67.3	65.2	64.6	64.6	64.6	64.6	64.6
5°	61.8	59.6	58.2	57.5	57.5	57.5	57.5
7.5°	57.5	54.7	53.3	51.9	51.9	51.2	51.2
10°	53.3	50.5	48.4	47.0	46.3	46.3	46.3
12.5°	49.8	47.0	44.2	42.8	42.8	42.0	42.0
15°	47.0	42.8	40.7	39.3	39.3	38.6	38.6
17.5°	43.4	40.0	37.9	36.5	35.8	35.8	35.8
20°	40.0	36.5	34.3	33.7	32.9	32.9	32.3
22.5°	37.2	33.7	31.5	30.9	30.1	30.1	29.5
25°	34.3	30.9	28.7	28.1	27.3	26.7	26.7
27.5°	32.3	28.7	26.7	25.2	24.6	23.8	23.8
30°	30.1	26.0	23.8	22.4	21.8	21.0	21.0
32.5°	28.1	23.8	21.0	19.6	19.0	18.2	18.2
35°	25.2	21.0	18.2	17.5	16.8	16.1	15.4
37.5°	23.2	18.2	16.1	14.7	14.0	13.3	13.3
40°	20.4	16.1	14.0	12.7	11.3	10.5	10.5
42.5°	18.2	14.0	11.9	9.9	9.1	8.4	8.4
45°	16.1	12.7	9.9	7.7	7.0	6.3	6.3
47.5°	14.0	10.5	7.7	6.3	5.6	4.9	4.9
50°	11.9	8.4	5.6	4.2	4.9	4.2	4.2
52.5°	10.5	6.3	4.2	4.2	4.2	4.2	4.2
55°	8.4	4.9	3.5	3.5	4.2	4.2	4.2
57.5°	7.0	3.5	2.8	3.5	3.5	3.5	3.5
60°	4.9	2.8	2.8	3.5	3.5	3.5	3.5
62.5°	4.2	2.8	2.8	2.8	3.5	3.5	3.5
64°	3.5	2.8	2.8	2.8	3.5	3.5	3.5
65°	3.5	2.8	2.8	2.8	3.5	3.5	3.5
67.5°	3.5	2.8	2.8	2.8	3.5	3.5	3.5
70°	2.8	2.8	2.8	2.8	3.5	3.5	3.5
72.5°	2.8	2.8	2.8	2.8	3.5	3.5	3.5
75°	2.8	2.8	2.8	2.8	3.5	3.5	3.5
77.5°	2.8	2.8	2.8	3.5	3.5	3.5	3.5
80°	2.8	2.8	2.8	3.5	3.5	3.5	3.5
82.5°	2.8	2.8	2.8	3.5	3.5	3.5	3.5
85°	2.8	2.8	2.8	3.5	3.5	3.5	3.5
87.5°	2.8	2.8	2.8	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)