

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: P181332

Luminaire Tested: **ICM-F02-LED-E1-T3-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181332  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33724)  
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-T3-HSS-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2113.3 lumens  
Efficiency: N/A  
Efficacy: 38.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

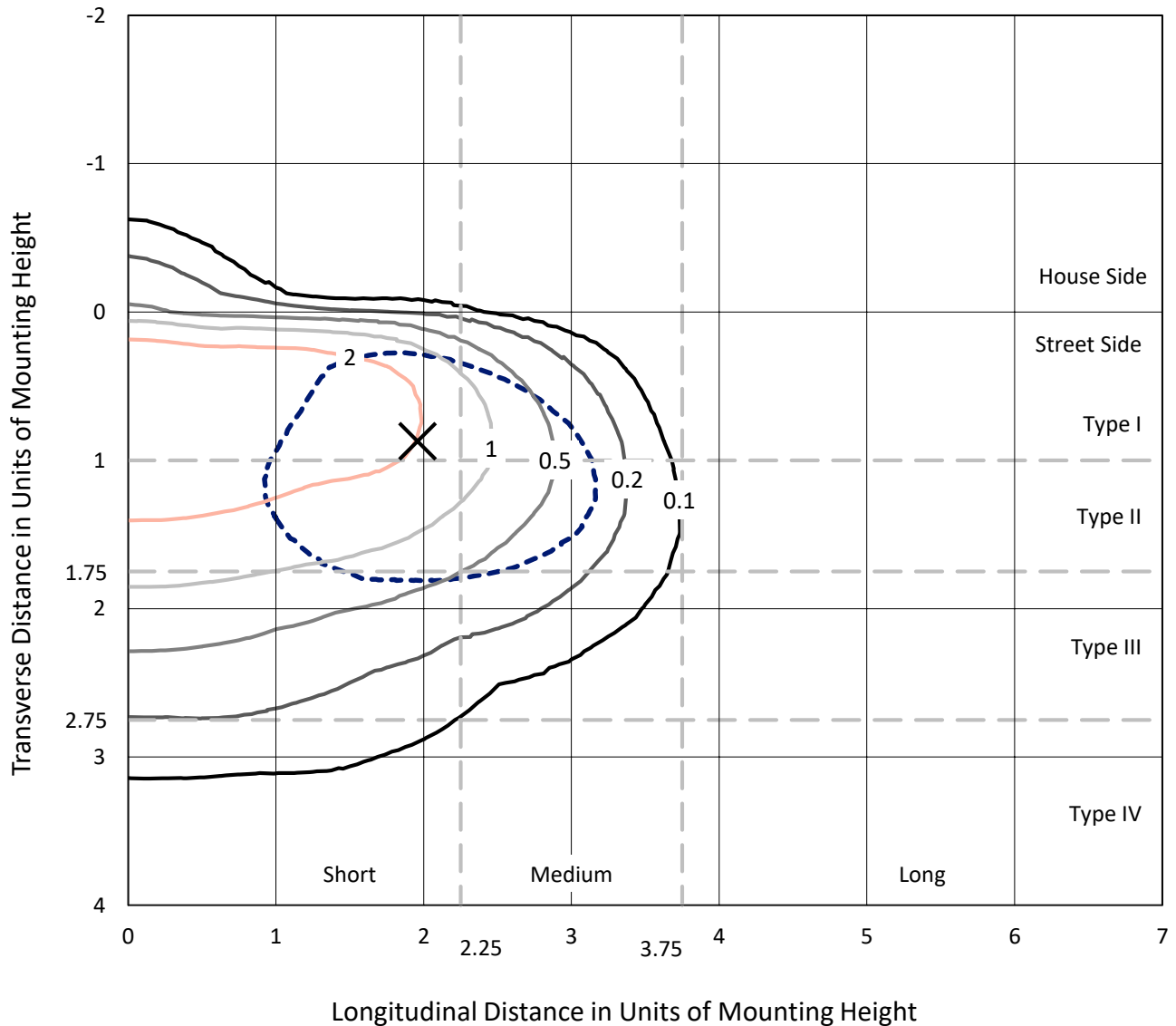
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P181332  
 CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

### Iso-Footcandle Lines of Horizontal Illumination

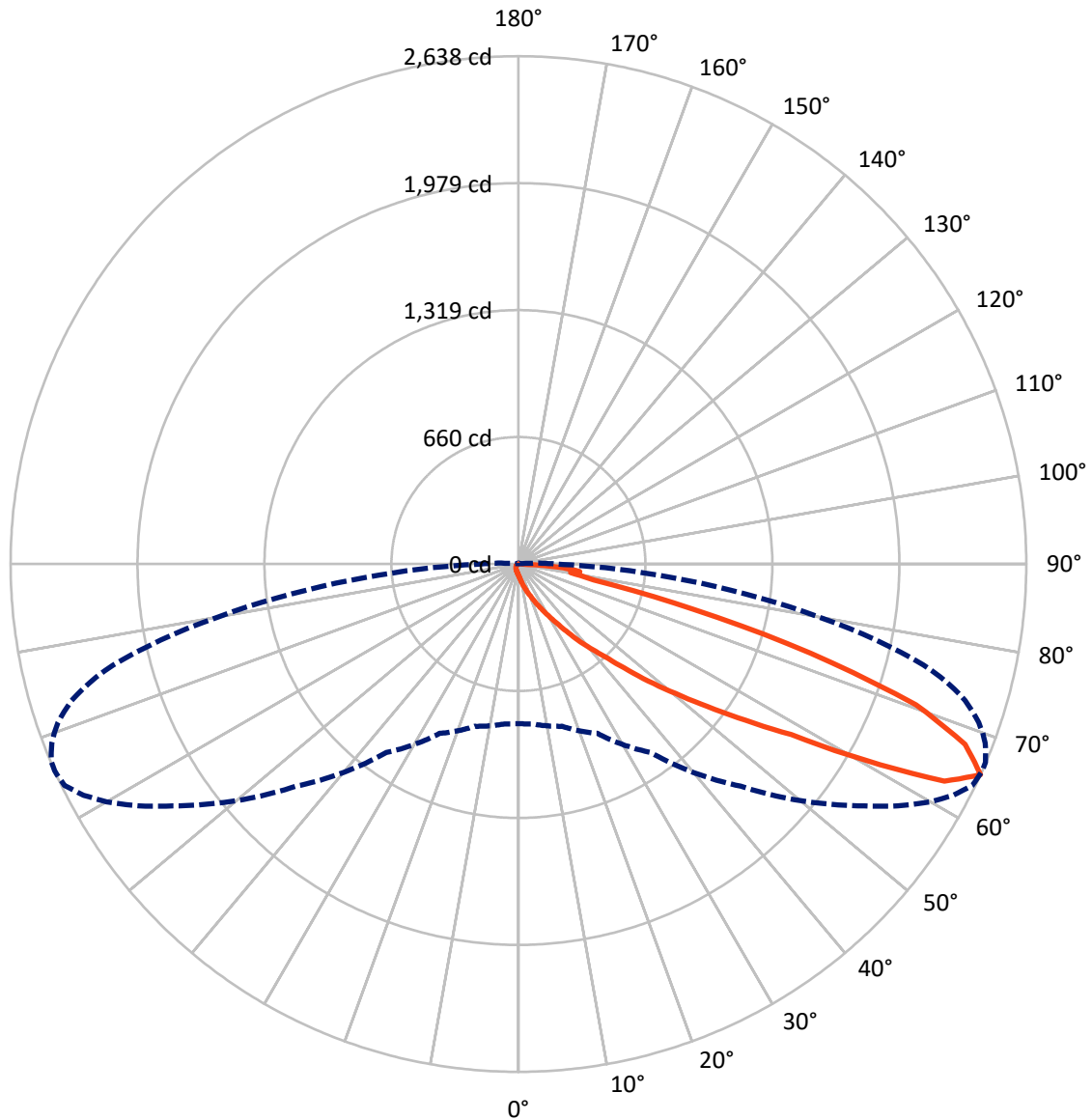
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P181332  
CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P181332

CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

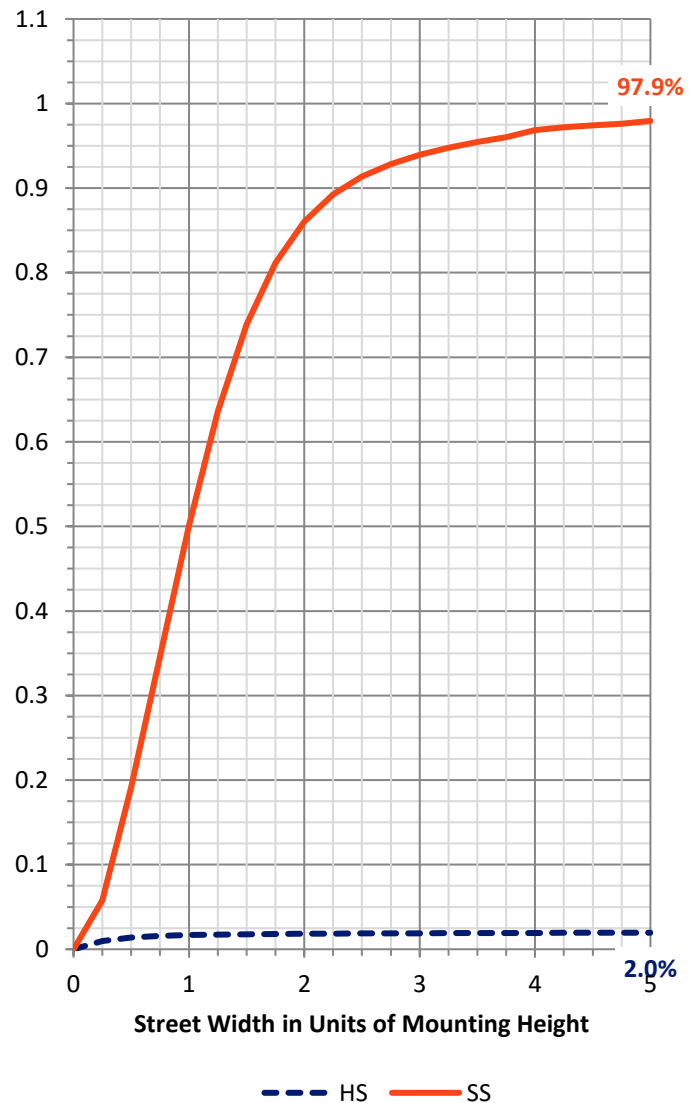
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	42.4	0.0	42.4
	% Fixture	2.0	0.0	2.0
<b>Street Side</b>	Lumens	2070.9	0.0	2070.9
	% Fixture	98.0	0.0	98.0
<b>Total</b>	Lumens	2113.3	0.0	2113.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.2	0.3
10°-20°	34.4	1.6
20°-30°	78.5	3.7
30°-40°	149.3	7.1
40°-50°	299.7	14.2
50°-60°	530.4	25.1
60°-70°	693.0	32.8
70°-80°	284.9	13.5
80°-90°	35.9	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°	2113.3	100.0
0°-180°	2113.3	100.0



REPORT NUMBER: P181332

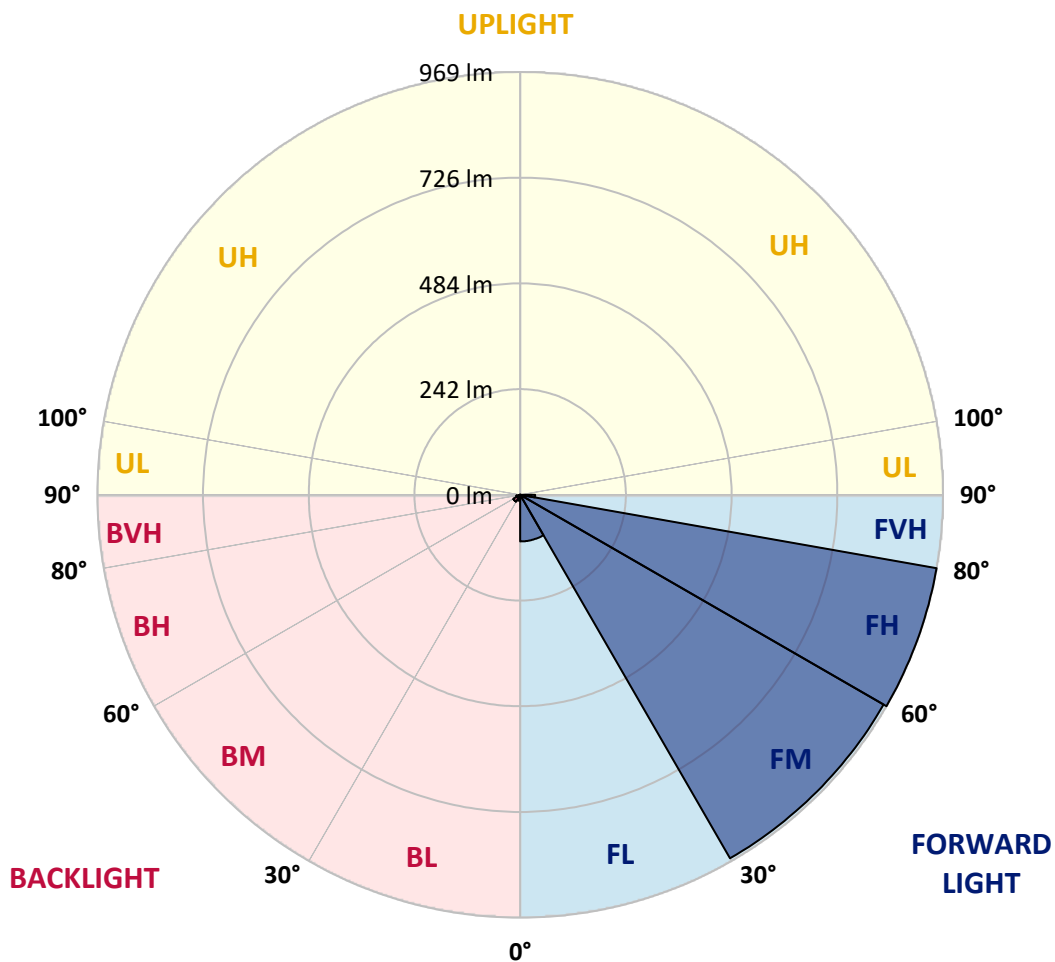
CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.8	5.1			
FM	(30°-60°)	961.3	45.5			
FH	(60°-80°)	968.5	45.8			G1/1800
FVH	(80°-90°)	34.3	1.6			G1/100
BL	(0°-30°)	13.3	0.6	B0/110		
BM	(30°-60°)	18.2	0.9	B0/220		
BH	(60°-80°)	9.4	0.4	B0/110		G0/110
BVH	(80°-90°)	1.6	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 III Short





REPORT NUMBER: P181332

CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
2.5°	77.8	76.5	76.9	74.3	72.6	70.4	68.7	68.3	67.8	67.0	67.4
5°	111.9	110.6	107.6	102.4	97.7	90.3	83.0	82.5	81.2	79.9	79.1
7.5°	155.5	153.4	150.0	141.3	129.6	116.7	102.0	100.7	99.0	97.2	95.5
10°	206.1	204.8	198.3	188.4	170.7	149.5	124.8	123.5	119.7	117.5	115.8
12.5°	259.3	253.7	251.1	233.8	213.5	184.5	152.9	148.2	145.2	142.1	137.9
15°	299.4	300.3	294.2	280.5	256.7	223.0	183.6	178.4	174.1	168.6	163.3
17.5°	335.7	334.0	327.5	318.9	296.4	262.2	216.5	209.6	202.6	199.6	192.3
20°	365.1	364.3	359.1	350.9	333.6	300.7	251.1	245.4	237.7	232.5	224.3
22.5°	388.5	388.5	385.4	380.7	363.8	337.5	287.8	281.7	274.0	267.4	258.4
25°	407.0	406.6	407.0	404.8	393.7	369.4	325.4	318.4	312.0	304.2	295.5
27.5°	428.2	429.0	428.2	426.9	422.1	402.7	363.4	358.6	351.3	343.1	334.4
30°	461.0	458.4	458.0	457.1	451.5	439.4	402.7	397.1	391.4	385.9	379.8
32.5°	495.6	491.3	490.0	490.0	486.1	475.3	448.1	445.0	436.8	432.6	427.4
35°	534.9	533.2	531.4	531.9	530.1	519.0	496.5	497.3	494.7	486.1	480.9
37.5°	592.4	592.8	589.8	584.2	584.2	574.2	561.3	559.5	553.0	550.9	547.9
40°	674.5	672.3	669.8	661.5	658.5	641.7	629.6	625.2	620.0	619.6	616.2
42.5°	769.6	767.0	767.0	760.9	754.9	734.5	711.6	708.7	703.0	704.7	703.4
45°	857.7	859.8	862.9	867.2	868.1	859.4	826.1	822.2	819.3	817.5	816.2
47.5°	933.8	937.6	947.5	966.1	989.9	992.9	966.6	956.2	954.1	951.0	948.5
50°	988.2	993.8	1016.3	1052.6	1098.8	1127.4	1113.0	1104.4	1104.0	1095.7	1094.9
52.5°	1019.3	1025.3	1062.1	1116.9	1188.7	1244.4	1262.1	1261.7	1260.8	1253.5	1250.4
55°	1026.2	1032.7	1076.8	1151.5	1254.0	1350.2	1418.1	1419.8	1423.7	1421.6	1421.6
57.5°	1007.2	1015.4	1063.4	1155.8	1288.0	1434.1	1582.3	1592.2	1597.0	1613.9	1633.3
60°	972.2	978.2	1026.2	1129.5	1294.1	1510.6	1795.7	1827.3	1851.9	1885.2	1916.8
62.5°	907.4	919.4	965.3	1077.6	1275.9	1598.7	2050.7	2109.0	2156.9	2207.5	2268.5
65°	828.7	834.0	872.8	970.9	1194.7	1632.4	2191.5	2248.6	2310.0	2363.9	2418.4
67.5°	730.2	734.5	768.3	810.1	986.1	1474.7	2052.8	2115.9	2171.3	2215.7	2287.0
70°	478.3	487.8	570.3	611.8	689.2	1090.1	1678.6	1739.5	1782.0	1812.2	1894.7
72.5°	350.4	356.5	389.8	475.3	494.3	644.3	1181.3	1247.4	1263.0	1320.0	1358.5
75°	213.9	229.0	304.2	407.0	481.8	441.1	707.7	739.7	775.6	817.1	853.8
77.5°	43.2	49.3	99.3	280.5	423.9	471.4	422.6	428.7	446.3	450.2	464.1
80°	6.9	7.3	12.9	121.0	245.4	381.1	422.6	416.9	407.0	400.1	393.2
82.5°	3.1	3.4	5.6	30.7	52.3	127.1	365.6	394.0	426.9	445.0	449.8
85°	1.3	1.3	2.1	6.0	7.8	8.7	61.8	81.7	145.6	193.6	223.0
87.5°	0.8	0.8	1.3	1.3	1.8	2.1	3.1	3.1	3.4	3.9	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: P181332

CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
2.5°	67.4	67.0	67.0	65.7	65.7	65.2	65.2	64.8	64.8	63.9	64.4
5°	78.6	77.8	76.9	75.6	75.2	74.3	73.5	72.2	71.7	70.9	70.4
7.5°	93.8	92.9	91.2	88.6	86.9	85.1	83.3	81.7	80.4	79.1	78.2
10°	112.4	109.8	108.9	103.7	101.6	98.0	95.9	94.2	91.6	89.4	88.2
12.5°	134.8	132.7	128.4	121.4	118.0	115.0	111.1	107.6	105.0	101.1	98.5
15°	158.1	156.4	150.3	142.6	138.2	132.7	128.7	125.3	119.7	117.1	112.4
17.5°	187.5	182.3	176.3	165.0	159.4	154.7	147.8	142.6	139.2	131.3	127.1
20°	217.8	212.2	204.4	191.8	184.1	176.7	171.1	164.2	156.8	151.6	144.3
22.5°	252.4	243.3	237.2	221.7	212.6	204.8	195.3	188.0	180.7	172.4	164.2
25°	289.0	280.0	272.7	254.9	245.4	237.7	226.4	216.0	207.0	197.9	188.4
27.5°	327.5	319.4	311.1	292.9	284.7	274.0	263.5	251.4	239.8	231.6	218.6
30°	372.0	365.1	356.0	336.6	327.5	316.3	305.5	291.3	280.0	268.7	256.2
32.5°	420.0	414.3	404.8	387.5	376.7	367.3	355.6	341.8	325.8	314.1	299.4
35°	478.3	468.8	463.2	446.8	438.6	428.2	416.1	404.0	387.2	370.7	358.2
37.5°	544.8	540.6	533.2	517.7	511.6	500.7	493.0	480.9	467.9	447.2	433.8
40°	613.1	610.1	603.6	588.1	582.1	574.7	565.6	554.0	538.4	527.5	507.7
42.5°	700.0	695.3	690.1	675.4	663.7	654.6	650.7	640.7	624.4	610.5	595.0
45°	810.1	808.0	801.1	786.4	774.7	768.7	762.6	745.8	735.0	721.1	710.3
47.5°	943.3	936.4	932.8	916.5	912.6	907.8	892.3	882.8	867.2	856.4	843.0
50°	1087.2	1079.8	1080.2	1060.4	1061.2	1057.8	1046.1	1034.9	1021.5	1011.9	1003.7
52.5°	1241.8	1245.3	1236.7	1242.7	1235.7	1228.0	1225.9	1212.0	1200.4	1199.9	1188.7
55°	1431.9	1426.3	1428.5	1434.5	1425.0	1433.7	1429.3	1411.6	1412.1	1415.5	1402.5
57.5°	1636.3	1644.6	1662.2	1666.1	1682.5	1671.3	1700.7	1679.5	1692.5	1692.5	1683.8
60°	1936.2	1969.0	2011.8	2045.0	2075.7	2065.8	2104.3	2080.1	2097.3	2082.6	2075.3
62.5°	2297.4	2341.0	2391.6	2445.6	2476.8	2484.5	2478.9	2489.7	2472.9	2462.1	2434.0
65°	2471.1	2514.3	2558.3	2623.2	2631.8	2638.3	2635.7	2617.6	2596.9	2566.2	2529.4
67.5°	2326.8	2387.3	2411.9	2486.6	2511.7	2502.6	2505.7	2482.3	2450.0	2419.6	2365.7
70°	1929.2	1998.4	2011.4	2118.5	2148.3	2191.5	2176.0	2169.0	2133.7	2108.1	2048.5
72.5°	1404.8	1458.7	1454.4	1575.0	1569.8	1587.5	1629.4	1627.6	1590.5	1582.3	1532.2
75°	864.6	897.0	895.3	980.8	944.9	939.8	951.4	946.2	911.3	875.0	843.8
77.5°	458.0	472.7	457.1	431.6	429.0	400.1	391.9	391.4	364.7	331.8	307.6
80°	385.9	370.7	352.6	315.4	293.9	274.4	256.2	239.4	221.2	197.0	167.6
82.5°	450.7	443.4	430.3	383.7	361.2	322.3	293.4	266.1	232.9	207.8	170.2
85°	219.5	219.1	229.4	224.7	216.5	214.8	186.2	180.2	166.8	152.9	127.9
87.5°	6.0	4.3	5.2	4.3	5.2	5.6	3.9	9.1	5.6	5.2	6.0
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: P181332

CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
2.5°	63.9	63.5	63.1	63.1	62.7	62.7	62.2	61.8	61.8	61.4	61.4
5°	69.6	68.7	68.3	67.8	67.0	66.5	65.7	65.2	64.4	63.9	63.1
7.5°	76.5	75.6	73.9	73.0	71.7	71.3	69.1	68.3	67.4	66.5	65.2
10°	85.1	83.0	81.2	79.5	77.3	75.6	73.9	72.6	70.9	68.7	67.8
12.5°	95.9	92.9	90.3	87.3	84.7	82.1	79.1	76.9	74.3	72.2	70.0
15°	108.0	103.7	100.3	95.9	91.6	88.6	85.6	82.5	79.1	76.1	73.5
17.5°	121.9	116.2	111.4	106.3	101.6	97.2	92.0	88.2	84.3	79.9	76.5
20°	136.6	130.9	124.5	118.8	111.9	107.2	100.7	95.5	89.9	85.6	80.8
22.5°	156.0	148.7	140.5	132.7	125.3	118.0	111.1	104.6	97.7	91.2	86.4
25°	178.9	169.8	159.4	151.6	141.3	133.1	124.5	116.2	108.9	100.7	92.9
27.5°	207.4	195.3	184.1	173.3	162.0	151.6	140.5	130.9	121.0	111.4	102.8
30°	240.7	229.0	212.2	200.1	188.8	174.6	163.3	150.8	139.5	125.8	116.2
32.5°	284.7	269.6	251.9	235.9	221.2	205.2	189.7	173.7	159.0	146.5	132.2
35°	342.2	324.5	303.4	283.0	266.6	247.2	227.3	209.1	192.3	174.1	156.4
37.5°	414.8	398.4	375.4	350.9	328.8	305.5	284.7	259.3	236.7	214.8	192.3
40°	487.0	471.8	448.1	421.7	393.2	366.4	340.1	311.1	282.6	254.9	231.6
42.5°	576.0	553.5	528.0	498.2	470.5	438.6	405.8	372.5	338.3	305.0	271.8
45°	687.9	670.6	634.7	602.8	570.0	532.4	491.7	453.7	410.0	370.7	326.7
47.5°	824.0	792.8	766.5	737.1	696.1	659.8	607.9	563.0	508.6	456.3	403.5
50°	984.8	967.4	932.5	895.7	851.2	808.0	757.5	692.7	627.4	571.6	499.5
52.5°	1172.7	1148.1	1126.1	1088.0	1042.6	987.4	929.9	859.4	779.4	700.8	623.9
55°	1395.6	1378.3	1357.2	1326.9	1269.0	1206.4	1137.2	1053.0	958.3	852.5	763.1
57.5°	1683.5	1665.2	1644.9	1582.7	1543.5	1466.5	1366.2	1279.0	1177.0	1041.3	930.2
60°	2076.2	2051.5	2023.0	1972.5	1890.3	1790.5	1683.0	1553.8	1428.9	1280.7	1135.1
62.5°	2411.9	2372.6	2311.6	2246.4	2147.9	2033.4	1898.2	1746.1	1603.9	1437.1	1275.1
65°	2481.0	2427.0	2355.3	2270.2	2168.7	2039.5	1898.2	1752.6	1585.3	1428.5	1265.6
67.5°	2301.3	2238.6	2165.2	2070.2	1973.3	1840.3	1718.4	1570.2	1412.9	1277.2	1131.6
70°	2005.8	1912.8	1837.7	1736.6	1638.4	1533.9	1405.6	1294.5	1166.6	1041.8	930.2
72.5°	1506.2	1414.6	1346.4	1265.6	1207.3	1096.7	1002.4	919.4	843.8	750.5	668.0
75°	811.9	743.2	697.4	660.7	608.4	535.4	490.4	433.4	401.4	362.5	324.9
77.5°	264.8	233.3	199.2	166.0	142.6	107.2	103.7	82.5	77.8	75.6	58.3
80°	135.6	104.6	75.6	54.4	41.5	36.7	35.0	33.3	31.5	30.2	28.1
82.5°	136.1	98.5	67.8	47.1	34.1	28.6	26.8	26.0	24.7	23.3	21.6
85°	99.3	73.5	50.5	34.6	23.7	19.0	18.1	16.8	16.0	15.5	13.9
87.5°	6.5	4.7	4.3	3.9	3.9	3.9	4.3	3.9	4.3	4.3	3.9
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: P181332

CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
2.5°	60.9	60.5	60.5	60.1	59.6	59.6	59.2	59.2	57.9	55.7	54.0
5°	62.7	61.8	61.4	60.9	60.5	59.6	59.2	58.8	56.6	52.3	48.8
7.5°	63.9	63.1	62.7	61.8	60.5	60.1	59.2	58.3	54.9	48.8	44.9
10°	66.1	64.8	63.5	62.2	60.9	60.1	58.8	57.9	52.7	45.8	42.0
12.5°	68.3	66.5	64.8	62.7	61.4	60.1	58.8	57.0	51.0	43.2	38.9
15°	70.9	68.3	66.1	63.9	61.8	60.1	57.9	56.6	49.3	41.0	37.1
17.5°	73.5	70.4	67.4	64.4	62.2	59.6	57.9	55.7	47.5	39.3	35.0
20°	76.5	72.2	69.1	65.7	62.7	59.6	57.0	54.9	45.8	37.1	32.8
22.5°	80.8	75.6	70.9	67.0	63.1	60.1	57.0	54.0	44.1	35.4	31.1
25°	86.4	79.9	74.3	69.6	64.8	60.9	57.5	54.4	42.8	34.1	28.9
27.5°	94.6	86.4	80.4	73.9	67.8	63.1	58.8	55.3	42.0	32.8	27.6
30°	104.6	96.4	86.9	79.1	72.6	66.1	61.4	56.2	41.0	31.5	26.0
32.5°	119.3	107.6	96.4	86.9	77.8	70.4	63.5	58.3	40.7	29.4	24.2
35°	140.5	124.5	111.1	98.5	86.0	76.9	68.7	61.8	40.2	27.6	22.5
37.5°	170.7	151.6	134.4	116.7	101.1	88.2	76.9	67.8	40.2	26.3	20.7
40°	203.1	178.4	156.4	134.4	114.5	98.0	83.0	71.7	39.3	24.7	19.0
42.5°	239.8	209.6	179.3	152.1	127.4	106.3	88.6	74.8	37.1	22.9	17.3
45°	289.0	249.3	213.0	178.0	146.0	118.4	95.9	78.2	35.0	21.6	15.5
47.5°	350.9	304.7	257.5	213.5	171.5	136.6	106.7	83.8	33.7	19.9	14.2
50°	442.9	377.2	315.0	258.8	205.7	159.9	122.7	92.0	32.4	18.6	12.9
52.5°	544.0	463.2	390.1	318.0	251.9	191.4	141.3	102.8	31.1	17.3	11.6
55°	667.2	567.7	478.8	385.0	300.3	228.2	164.2	115.0	29.4	16.0	10.8
57.5°	819.3	693.5	588.1	473.6	367.3	275.6	194.9	135.3	27.6	14.2	9.5
60°	989.0	846.9	714.2	579.8	451.1	338.8	240.3	164.2	26.0	12.6	8.2
62.5°	1111.4	955.4	803.7	652.8	511.6	385.9	276.9	186.7	23.3	10.8	7.3
65°	1110.1	951.9	799.4	650.7	513.3	387.5	278.2	191.0	20.7	9.5	6.5
67.5°	989.0	856.0	719.8	586.3	466.2	352.6	257.5	177.1	17.7	8.7	5.6
70°	813.6	707.7	600.2	494.3	398.0	302.0	222.5	154.2	15.2	7.8	4.7
72.5°	594.1	516.7	451.1	376.4	310.7	238.5	177.6	121.0	12.1	6.5	4.3
75°	295.1	264.0	226.4	203.1	173.3	141.8	110.1	70.4	10.0	5.2	3.9
77.5°	56.2	50.1	48.0	41.5	38.0	33.7	29.8	21.2	7.8	3.9	3.4
80°	26.0	23.7	21.6	19.4	17.3	14.7	12.9	11.3	6.0	3.1	3.9
82.5°	20.3	18.6	16.5	14.7	12.9	11.3	9.5	8.2	3.9	2.6	3.9
85°	13.4	11.6	10.3	9.1	7.8	6.9	6.0	5.2	2.6	2.6	2.6
87.5°	3.9	3.9	3.4	3.4	3.1	3.1	2.6	2.6	2.1	2.1	2.1
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: P181332

CATALOG NUMBER: ICM-F02-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	58.8	58.8	58.8	58.8	58.8	58.8	58.8
2.5°	52.3	50.1	49.3	48.8	48.8	49.3	48.8
5°	46.2	44.1	43.2	42.3	42.3	42.3	42.8
7.5°	42.3	40.2	38.9	38.4	38.0	38.4	38.4
10°	38.9	37.1	35.4	34.6	34.6	34.6	34.6
12.5°	36.3	34.1	32.4	32.0	31.5	31.5	31.5
15°	34.1	31.5	30.2	29.4	28.9	28.9	29.4
17.5°	31.5	29.4	27.6	27.3	27.3	27.3	27.3
20°	29.8	27.3	26.0	25.0	25.0	25.0	25.0
22.5°	27.6	25.5	23.7	22.9	22.9	22.9	22.9
25°	26.0	23.7	22.0	21.2	21.2	21.2	21.2
27.5°	24.2	22.0	20.3	19.4	19.4	19.4	19.4
30°	22.5	20.3	18.6	17.7	17.7	17.7	17.7
32.5°	21.2	18.6	16.8	16.0	16.0	16.5	16.0
35°	19.0	16.8	15.2	14.2	14.2	14.2	14.2
37.5°	17.3	15.2	13.4	12.6	12.6	12.6	12.1
40°	16.0	13.4	11.6	10.8	10.3	10.3	10.3
42.5°	13.9	11.3	10.0	9.1	8.7	8.7	8.7
45°	12.6	10.0	8.2	7.3	7.3	7.3	7.3
47.5°	11.3	8.7	6.9	6.0	6.0	6.5	6.5
50°	10.0	7.3	5.6	5.6	5.6	6.0	6.0
52.5°	8.7	6.5	5.2	5.2	5.6	6.0	6.0
55°	7.8	5.6	4.7	5.2	5.6	6.0	6.0
57.5°	6.9	4.7	4.7	5.2	5.6	6.0	6.0
60°	6.0	4.3	4.3	4.7	5.6	6.0	6.0
62.5°	5.2	4.3	4.3	4.7	5.6	6.0	6.0
65°	4.7	4.3	4.3	4.7	5.6	6.0	6.0
67.5°	4.3	3.9	4.3	4.7	5.2	5.6	5.6
70°	3.9	3.9	4.3	4.7	5.2	5.6	5.6
72.5°	3.9	3.9	3.9	4.3	4.7	5.2	5.2
75°	3.9	3.9	3.9	4.3	4.7	5.2	5.2
77.5°	3.9	3.4	3.4	3.9	4.7	5.2	5.2
80°	3.9	3.4	3.4	3.9	4.3	5.2	5.2
82.5°	3.1	3.1	3.4	3.9	4.3	4.7	4.7
85°	2.6	3.1	3.1	3.4	3.9	4.7	4.7
87.5°	2.1	2.1	2.6	3.1	3.4	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)