

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: P181372

Luminaire Tested: **ICM-F06-LED-E1-T3-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181372
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-F06-LED-E1-T3-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6339.9 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

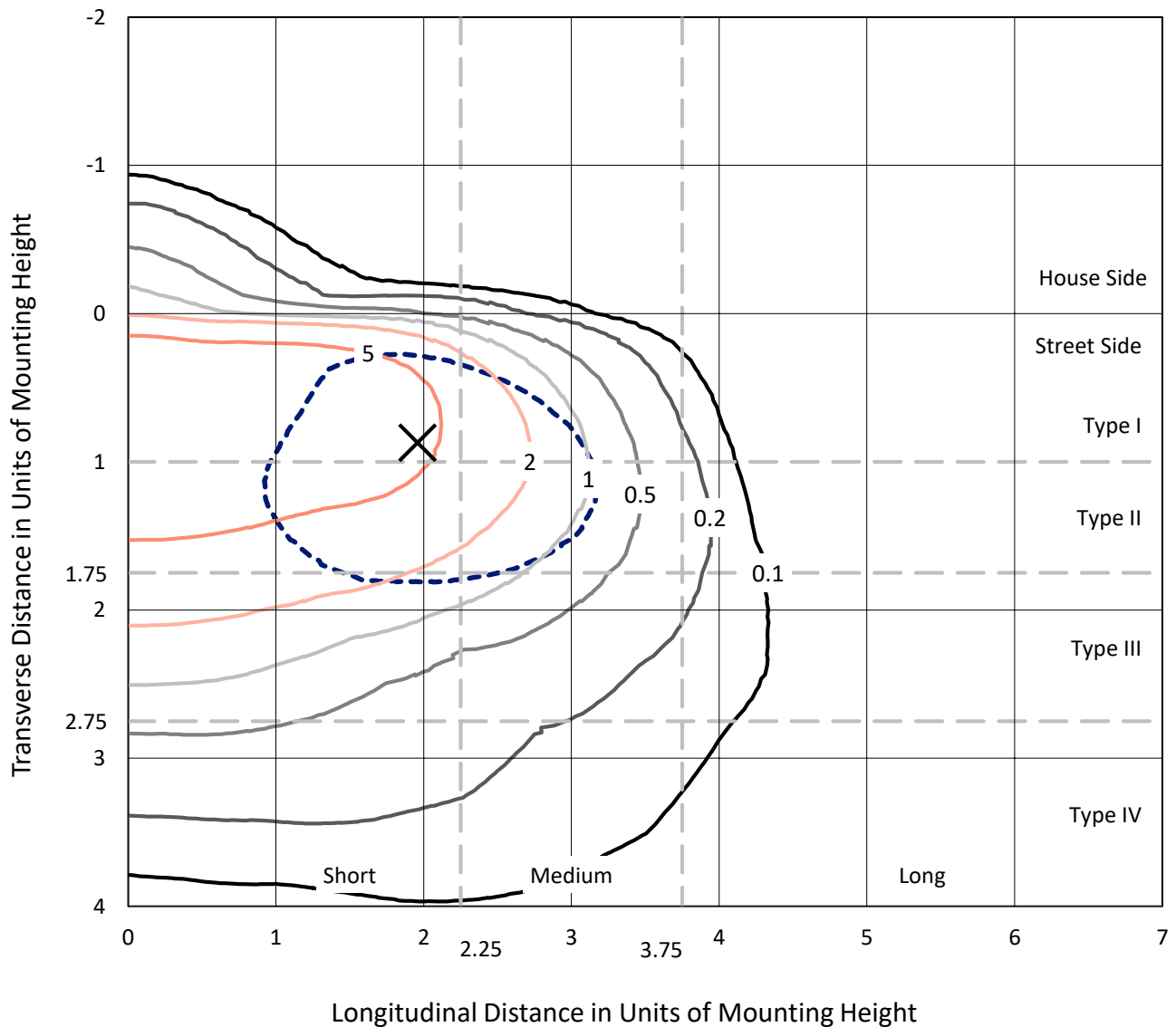
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181372
 CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

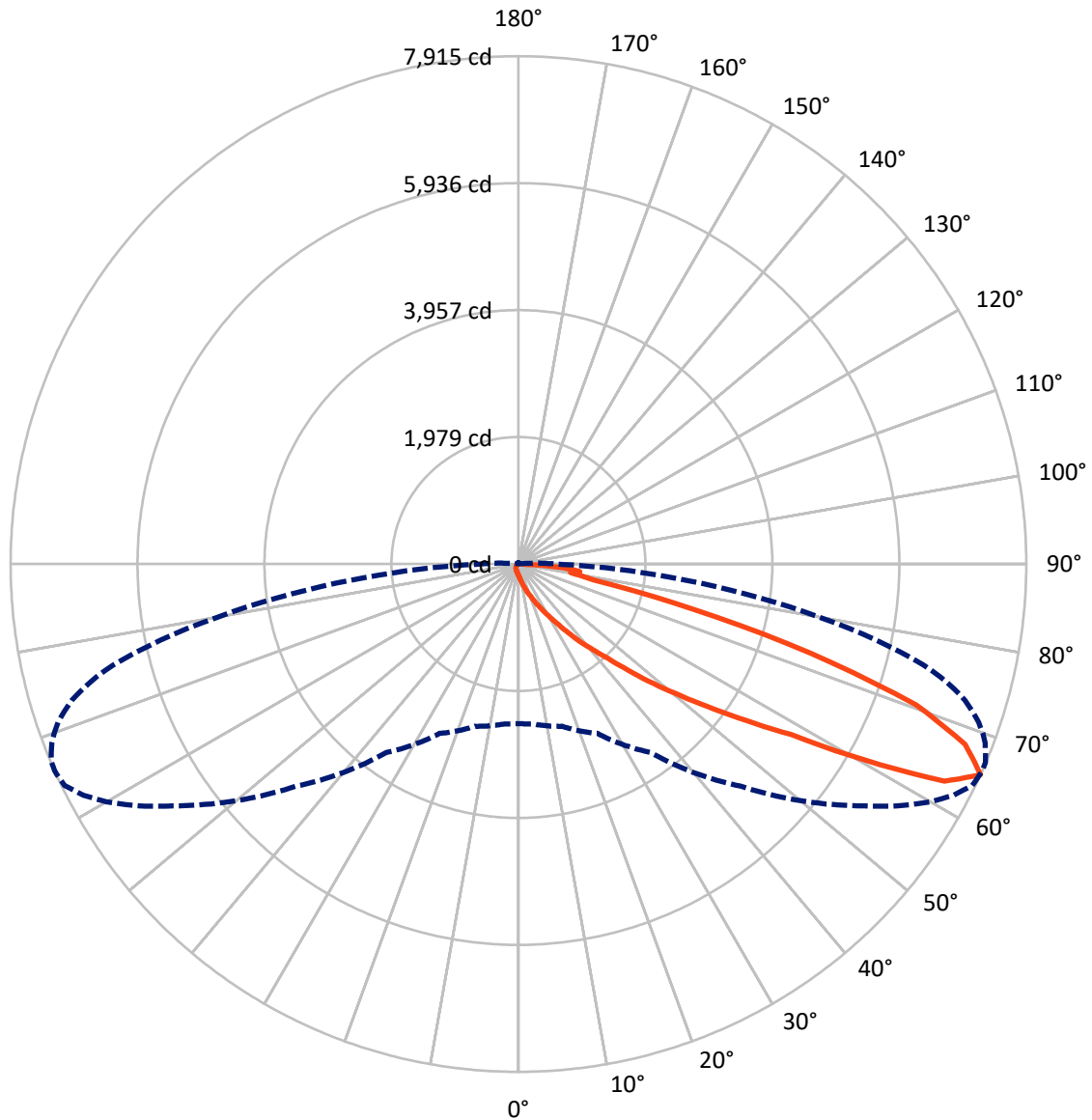
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P181372
CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181372

CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

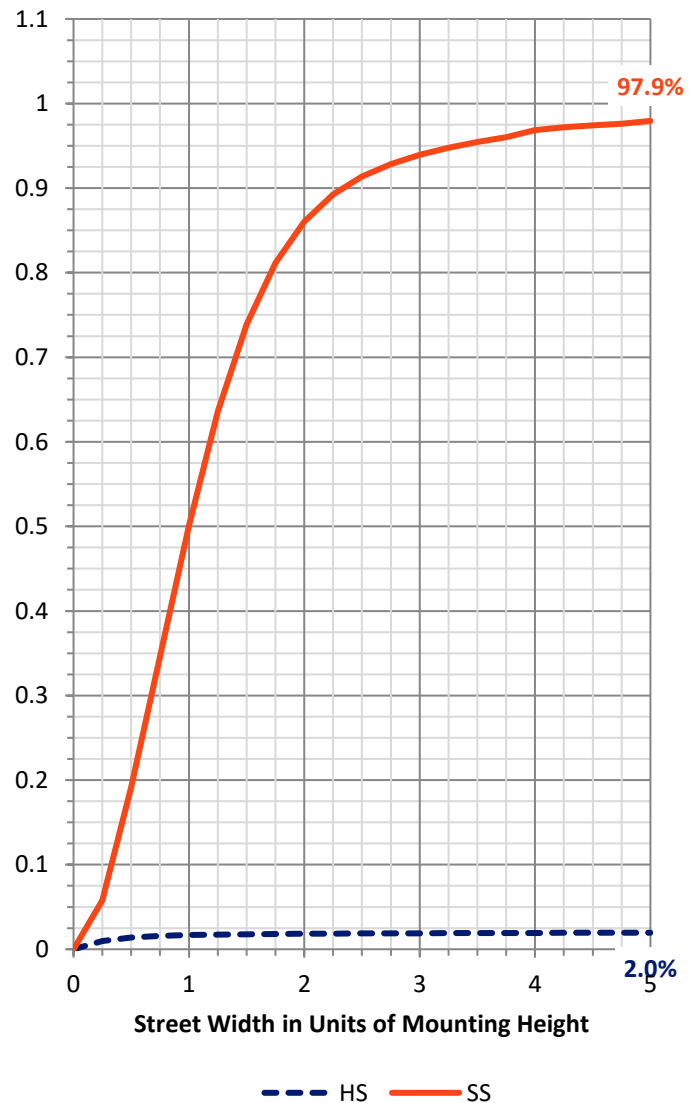
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.2	0.0	127.2
	% Fixture	2.0	0.0	2.0
Street Side	Lumens	6212.6	0.0	6212.6
	% Fixture	98.0	0.0	98.0
Total	Lumens	6339.9	0.0	6339.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	0.3
10°-20°	103.1	1.6
20°-30°	235.5	3.7
30°-40°	448.0	7.1
40°-50°	899.2	14.2
50°-60°	1591.1	25.1
60°-70°	2078.9	32.8
70°-80°	854.7	13.5
80°-90°	107.7	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°	6339.9	100.0
0°-180°	6339.9	100.0



REPORT NUMBER: P181372

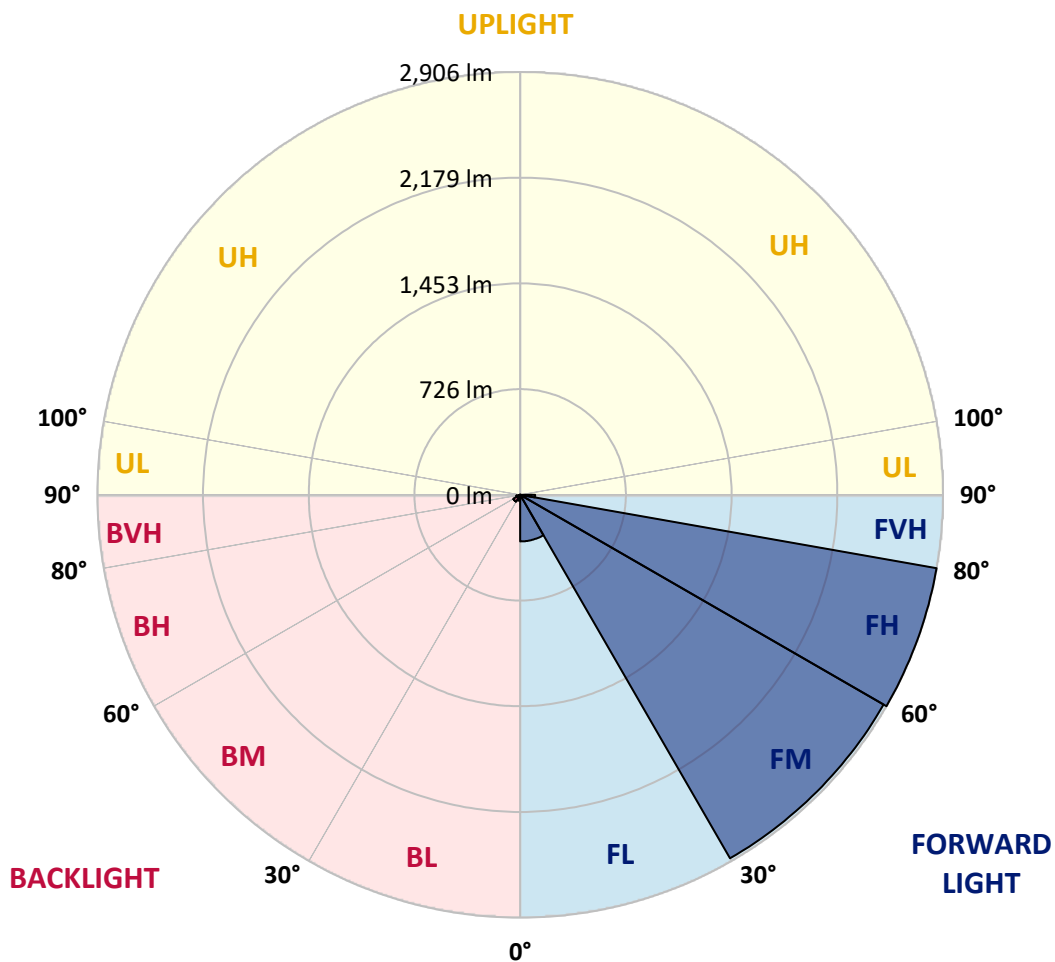
CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.3	5.1			
FM	(30°-60°)	2883.9	45.5			
FH	(60°-80°)	2905.5	45.8			G2/5000
FVH	(80°-90°)	102.9	1.6			G2/225
BL	(0°-30°)	39.8	0.6	B0/110		
BM	(30°-60°)	54.5	0.9	B0/220		
BH	(60°-80°)	28.1	0.4	B0/110		G0/110
BVH	(80°-90°)	4.8	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-G2

Type III Short





REPORT NUMBER: P181372

CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3
2.5°	233.3	229.4	230.7	223.0	217.8	211.3	206.1	204.8	203.5	200.9	202.2
5°	335.7	331.8	322.8	307.3	292.9	270.9	248.8	247.6	243.7	239.8	237.2
7.5°	466.6	460.2	449.8	423.9	388.8	350.0	306.0	302.0	296.8	291.6	286.5
10°	618.3	614.4	595.0	565.2	512.0	448.5	374.6	370.7	359.1	352.6	347.4
12.5°	777.8	760.9	753.1	701.3	640.4	553.5	458.9	444.7	435.5	426.5	413.5
15°	898.3	900.9	882.8	841.3	770.0	668.8	550.9	535.4	522.4	505.6	490.0
17.5°	1007.2	1002.1	982.6	956.7	889.2	786.8	649.4	628.7	607.9	598.9	576.8
20°	1095.4	1092.8	1077.2	1052.6	1000.8	902.2	753.1	736.3	712.9	697.4	672.7
22.5°	1165.3	1165.3	1156.3	1142.0	1091.4	1012.4	863.4	845.1	821.9	802.4	775.2
25°	1221.0	1219.8	1221.0	1214.6	1180.9	1108.3	976.1	955.4	935.9	912.6	886.6
27.5°	1284.6	1287.2	1284.6	1280.7	1266.4	1208.1	1090.1	1075.9	1053.9	1029.2	1003.3
30°	1383.1	1375.4	1374.1	1371.5	1354.6	1318.3	1208.1	1191.3	1174.4	1157.6	1139.4
32.5°	1486.8	1473.9	1470.0	1470.0	1458.3	1425.9	1344.2	1335.2	1310.5	1297.6	1282.0
35°	1604.8	1599.5	1594.4	1595.7	1590.5	1556.8	1489.4	1492.0	1484.2	1458.3	1442.7
37.5°	1777.1	1778.4	1769.4	1752.6	1752.6	1722.7	1683.8	1678.6	1659.2	1652.8	1643.6
40°	2023.5	2016.9	2009.2	1984.6	1975.5	1924.9	1888.7	1875.7	1860.1	1858.8	1848.5
42.5°	2308.7	2300.9	2300.9	2282.7	2264.6	2203.6	2134.9	2125.9	2109.0	2114.2	2110.3
45°	2573.0	2579.6	2588.7	2601.6	2604.2	2578.2	2478.4	2466.8	2457.7	2452.5	2448.7
47.5°	2801.2	2812.9	2842.7	2898.4	2969.7	2978.8	2899.7	2868.7	2862.2	2853.0	2845.3
50°	2964.6	2981.4	3048.8	3157.7	3296.4	3382.0	3339.2	3313.2	3311.9	3287.3	3284.8
52.5°	3057.9	3076.0	3186.3	3350.8	3566.0	3733.2	3786.3	3785.0	3782.4	3760.5	3751.4
55°	3078.6	3098.1	3230.3	3454.5	3761.8	4050.8	4254.4	4259.5	4271.2	4264.7	4264.7
57.5°	3021.6	3046.3	3190.1	3467.5	3864.1	4302.3	4746.9	4776.7	4791.0	4841.5	4899.8
60°	2916.6	2934.7	3078.6	3388.4	3882.3	4531.7	5387.3	5481.9	5555.8	5655.6	5750.2
62.5°	2722.2	2758.4	2895.8	3232.9	3827.8	4796.1	6152.0	6327.0	6470.9	6622.6	6805.3
65°	2486.2	2501.8	2618.4	2912.7	3584.1	4897.2	6574.6	6745.7	6929.8	7091.9	7255.2
67.5°	2190.7	2203.6	2304.8	2430.5	2958.1	4424.1	6158.5	6347.8	6513.7	6647.2	6861.1
70°	1435.0	1463.5	1711.1	1835.5	2067.5	3270.4	5035.9	5218.7	5345.8	5436.5	5684.1
72.5°	1051.3	1069.4	1169.2	1425.9	1482.9	1932.8	3543.9	3742.3	3789.0	3960.1	4075.5
75°	641.7	687.0	912.6	1221.0	1445.3	1323.4	2123.3	2219.2	2326.8	2451.3	2561.4
77.5°	129.6	147.8	298.1	841.3	1271.6	1414.2	1267.7	1285.9	1339.1	1350.7	1392.2
80°	20.7	22.0	38.9	363.0	736.3	1143.3	1267.7	1250.9	1221.0	1200.4	1179.6
82.5°	9.1	10.3	16.8	92.0	156.8	381.1	1096.7	1182.1	1280.7	1335.2	1349.4
85°	3.9	3.9	6.5	18.1	23.3	26.0	185.4	245.0	436.8	580.7	668.8
87.5°	2.6	2.6	3.9	3.9	5.2	6.5	9.1	9.1	10.3	11.6	16.8
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: P181372

CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3
2.5°	202.2	200.9	200.9	197.0	197.0	195.7	195.7	194.4	194.4	191.8	193.1
5°	235.9	233.3	230.7	226.9	225.6	223.0	220.4	216.5	215.2	212.6	211.3
7.5°	281.3	278.7	273.5	265.8	260.6	255.4	250.1	245.0	241.1	237.2	234.6
10°	337.0	329.2	326.7	311.1	304.7	294.2	287.8	282.6	274.8	268.3	264.5
12.5°	404.5	398.0	385.0	364.3	353.9	344.8	333.1	322.8	315.0	303.4	295.5
15°	474.4	469.2	451.1	427.7	414.8	398.0	386.3	375.9	359.1	351.3	337.0
17.5°	562.6	547.0	528.8	495.2	478.3	464.1	443.4	427.7	417.4	394.0	381.1
20°	653.3	636.5	613.1	575.5	552.2	530.1	513.3	492.6	470.5	455.0	432.9
22.5°	757.0	729.8	711.6	665.0	637.8	614.4	585.9	563.9	541.9	517.2	492.6
25°	867.2	840.0	818.0	764.7	736.3	712.9	679.3	648.1	620.9	593.7	565.2
27.5°	982.6	958.0	933.3	878.9	854.2	821.9	790.7	754.4	719.4	694.8	655.9
30°	1116.1	1095.4	1068.1	1009.8	982.6	948.8	916.5	873.7	840.0	806.2	768.7
32.5°	1260.0	1243.1	1214.6	1162.7	1130.3	1101.9	1066.8	1025.3	977.4	942.4	898.3
35°	1435.0	1406.4	1389.6	1340.3	1315.7	1284.6	1248.3	1212.0	1161.5	1112.2	1074.6
37.5°	1634.6	1621.6	1599.5	1552.9	1534.8	1502.3	1479.1	1442.7	1403.8	1341.6	1301.4
40°	1839.4	1830.3	1810.9	1764.2	1746.1	1724.0	1696.8	1661.8	1615.2	1582.7	1523.1
42.5°	2099.9	2085.7	2070.2	2026.1	1991.1	1963.8	1952.2	1922.3	1873.1	1831.6	1784.9
45°	2430.5	2424.0	2403.3	2359.2	2324.2	2306.1	2287.9	2237.3	2204.9	2163.5	2131.1
47.5°	2829.7	2809.0	2798.6	2749.4	2737.7	2723.5	2676.8	2648.3	2601.6	2569.2	2529.0
50°	3261.4	3239.4	3240.7	3181.0	3183.6	3173.2	3138.3	3104.6	3064.4	3035.8	3011.2
52.5°	3725.4	3735.8	3709.9	3728.0	3707.3	3683.9	3677.5	3636.0	3601.0	3599.7	3566.0
55°	4295.8	4278.9	4285.4	4303.6	4275.1	4301.0	4288.0	4234.9	4236.2	4246.5	4207.7
57.5°	4909.0	4933.6	4986.7	4998.4	5047.7	5013.9	5102.1	5038.5	5077.4	5077.4	5051.6
60°	5808.5	5907.0	6035.4	6135.2	6227.2	6197.4	6312.8	6240.2	6292.0	6247.9	6225.9
62.5°	6892.2	7023.1	7174.8	7336.8	7430.2	7453.5	7436.6	7469.1	7418.5	7386.1	7301.8
65°	7413.3	7542.9	7675.1	7869.6	7895.5	7914.9	7907.2	7852.7	7790.6	7698.5	7588.3
67.5°	6980.3	7161.8	7235.8	7460.0	7535.1	7508.0	7517.0	7447.0	7349.8	7259.0	7097.1
70°	5787.8	5995.2	6034.1	6355.6	6445.0	6574.6	6527.9	6507.2	6401.0	6324.4	6145.5
72.5°	4214.2	4376.2	4363.2	4724.9	4709.3	4762.4	4888.2	4883.0	4771.6	4746.9	4596.5
75°	2593.8	2691.0	2685.9	2942.5	2834.9	2819.4	2854.3	2838.8	2733.8	2624.9	2531.6
77.5°	1374.1	1418.1	1371.5	1295.0	1287.2	1200.4	1175.7	1174.4	1094.1	995.5	923.0
80°	1157.6	1112.2	1057.8	946.2	881.5	823.2	768.7	718.1	663.7	591.1	503.0
82.5°	1352.0	1330.0	1291.1	1151.1	1083.6	967.0	880.2	798.5	698.7	623.5	510.7
85°	658.5	657.2	688.3	674.1	649.4	644.3	558.7	540.6	500.4	458.9	383.7
87.5°	18.1	12.9	15.5	12.9	15.5	16.8	11.6	27.3	16.8	15.5	18.1
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: P181372

CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3
2.5°	191.8	190.5	189.2	189.2	188.0	188.0	186.7	185.4	185.4	184.1	184.1
5°	208.7	206.1	204.8	203.5	200.9	199.6	197.0	195.7	193.1	191.8	189.2
7.5°	229.4	226.9	221.7	219.1	215.2	213.9	207.4	204.8	202.2	199.6	195.7
10°	255.4	248.8	243.7	238.5	232.0	226.9	221.7	217.8	212.6	206.1	203.5
12.5°	287.8	278.7	270.9	261.9	254.0	246.3	237.2	230.7	223.0	216.5	210.0
15°	324.1	311.1	300.7	287.8	274.8	265.8	256.7	247.6	237.2	228.2	220.4
17.5°	365.6	348.7	334.4	318.9	304.7	291.6	276.1	264.5	252.7	239.8	229.4
20°	409.6	392.7	373.3	356.5	335.7	321.5	302.0	286.5	269.6	256.7	242.4
22.5°	467.9	446.0	421.3	398.0	375.9	353.9	333.1	313.7	292.9	273.5	259.3
25°	536.7	509.4	478.3	455.0	423.9	399.3	373.3	348.7	326.7	302.0	278.7
27.5°	622.2	585.9	552.2	519.8	486.1	455.0	421.3	392.7	363.0	334.4	308.5
30°	722.1	687.0	636.5	600.2	566.4	523.7	490.0	452.4	418.7	377.2	348.7
32.5°	854.2	808.8	755.7	707.7	663.7	615.7	569.0	521.1	477.0	439.4	396.7
35°	1026.6	973.5	910.0	849.0	799.8	741.5	681.9	627.4	576.8	522.4	469.2
37.5°	1244.4	1195.2	1126.4	1052.6	986.4	916.5	854.2	777.8	710.3	644.3	576.8
40°	1460.8	1415.5	1344.2	1265.1	1179.6	1099.3	1020.2	933.3	847.7	764.7	694.8
42.5°	1727.9	1660.5	1584.0	1494.6	1411.6	1315.7	1217.2	1117.4	1015.0	915.2	815.4
45°	2063.6	2011.8	1904.2	1808.3	1709.8	1597.0	1475.2	1361.0	1230.1	1112.2	980.0
47.5°	2471.9	2378.6	2299.5	2211.5	2088.3	1979.4	1823.8	1689.0	1525.7	1368.8	1210.7
50°	2954.2	2902.3	2797.3	2687.2	2553.6	2424.0	2272.4	2077.9	1882.2	1715.0	1498.5
52.5°	3518.1	3444.2	3378.1	3264.0	3127.8	2962.0	2789.5	2578.2	2338.4	2102.5	1871.8
55°	4186.9	4135.1	4071.6	3980.8	3807.1	3619.2	3411.7	3159.0	2875.1	2557.5	2289.2
57.5°	5050.3	4995.8	4934.8	4748.2	4630.3	4399.5	4098.8	3837.0	3531.0	3124.0	2790.8
60°	6228.5	6154.6	6069.1	5917.4	5671.1	5371.7	5049.0	4661.3	4286.7	3842.1	3405.2
62.5°	7235.8	7117.7	6935.0	6739.3	6443.7	6100.2	5694.5	5238.2	4811.8	4311.4	3825.2
65°	7443.1	7281.1	7065.9	6810.6	6505.9	6118.4	5694.5	5257.6	4755.9	4285.4	3796.8
67.5°	6903.9	6715.9	6495.6	6210.4	5920.0	5520.8	5155.2	4710.6	4238.8	3831.7	3394.9
70°	6017.2	5738.5	5513.0	5209.7	4915.4	4601.7	4216.8	3883.6	3499.9	3125.3	2790.8
72.5°	4518.7	4243.9	4039.2	3796.8	3621.8	3289.9	3007.4	2758.4	2531.6	2251.6	2004.0
75°	2435.6	2229.6	2092.2	1982.0	1825.1	1606.1	1471.3	1300.2	1204.2	1087.5	974.8
77.5°	794.6	700.0	597.6	497.8	427.7	321.5	311.1	247.6	233.3	226.9	175.0
80°	407.0	313.7	226.9	163.3	124.5	110.1	105.0	99.8	94.6	90.7	84.3
82.5°	408.3	295.5	203.5	141.3	102.4	85.6	80.4	77.8	73.9	70.0	64.8
85°	298.1	220.4	151.6	103.7	71.3	57.0	54.4	50.5	48.0	46.7	41.5
87.5°	19.4	14.2	12.9	11.6	11.6	11.6	12.9	11.6	12.9	12.9	11.6
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: P181372

CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3	176.3
2.5°	182.8	181.5	181.5	180.2	178.9	178.9	177.6	177.6	173.7	167.3	162.0
5°	188.0	185.4	184.1	182.8	181.5	178.9	177.6	176.3	169.8	156.8	146.5
7.5°	191.8	189.2	188.0	185.4	181.5	180.2	177.6	175.0	164.7	146.5	134.8
10°	198.3	194.4	190.5	186.7	182.8	180.2	176.3	173.7	158.1	137.4	125.8
12.5°	204.8	199.6	194.4	188.0	184.1	180.2	176.3	171.1	152.9	129.6	116.7
15°	212.6	204.8	198.3	191.8	185.4	180.2	173.7	169.8	147.8	123.2	111.4
17.5°	220.4	211.3	202.2	193.1	186.7	178.9	173.7	167.3	142.6	118.0	105.0
20°	229.4	216.5	207.4	197.0	188.0	178.9	171.1	164.7	137.4	111.4	98.5
22.5°	242.4	226.9	212.6	200.9	189.2	180.2	171.1	162.0	132.2	106.3	93.3
25°	259.3	239.8	223.0	208.7	194.4	182.8	172.4	163.3	128.4	102.4	86.9
27.5°	283.9	259.3	241.1	221.7	203.5	189.2	176.3	166.0	125.8	98.5	83.0
30°	313.7	289.0	260.6	237.2	217.8	198.3	184.1	168.6	123.2	94.6	77.8
32.5°	357.8	322.8	289.0	260.6	233.3	211.3	190.5	175.0	121.9	88.2	72.6
35°	421.3	373.3	333.1	295.5	258.0	230.7	206.1	185.4	120.6	83.0	67.4
37.5°	512.0	455.0	403.2	350.0	303.4	264.5	230.7	203.5	120.6	79.1	62.2
40°	609.2	535.4	469.2	403.2	343.5	294.2	248.8	215.2	118.0	73.9	57.0
42.5°	719.4	628.7	538.0	456.3	382.4	318.9	265.8	224.3	111.4	68.7	51.8
45°	867.2	747.9	639.1	534.0	438.1	355.2	287.8	234.6	105.0	64.8	46.7
47.5°	1052.6	913.9	772.6	640.4	514.6	409.6	320.2	251.4	101.1	59.6	42.8
50°	1328.7	1131.6	944.9	776.5	617.0	479.6	368.1	276.1	97.2	55.7	38.9
52.5°	1632.0	1389.6	1170.5	954.1	755.7	574.2	423.9	308.5	93.3	51.8	35.0
55°	2001.4	1703.3	1436.3	1155.0	900.9	684.5	492.6	344.8	88.2	48.0	32.4
57.5°	2457.7	2080.5	1764.2	1420.7	1101.9	827.0	584.7	405.8	83.0	42.8	28.6
60°	2967.2	2540.7	2142.7	1739.5	1353.3	1016.3	720.7	492.6	77.8	37.6	24.7
62.5°	3334.0	2866.1	2411.1	1958.6	1534.8	1157.6	830.9	560.0	70.0	32.4	22.0
65°	3330.1	2855.6	2398.1	1952.2	1539.9	1162.7	834.8	572.9	62.2	28.6	19.4
67.5°	2967.2	2567.9	2159.5	1759.0	1398.7	1057.8	772.6	531.4	53.1	26.0	16.8
70°	2440.9	2123.3	1800.5	1482.9	1193.9	906.1	667.5	462.8	45.4	23.3	14.2
72.5°	1782.3	1550.3	1353.3	1129.0	932.0	715.5	532.7	363.0	36.3	19.4	12.9
75°	885.3	792.0	679.3	609.2	519.8	425.2	330.5	211.3	29.8	15.5	11.6
77.5°	168.6	150.3	143.9	124.5	114.0	101.1	89.4	63.5	23.3	11.6	10.3
80°	77.8	71.3	64.8	58.3	51.8	44.1	38.9	33.7	18.1	9.1	11.6
82.5°	60.9	55.7	49.3	44.1	38.9	33.7	28.6	24.7	11.6	7.8	11.6
85°	40.2	35.0	31.1	27.3	23.3	20.7	18.1	15.5	7.8	7.8	7.8
87.5°	11.6	11.6	10.3	10.3	9.1	9.1	7.8	7.8	6.5	6.5	6.5
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: P181372

CATALOG NUMBER: ICM-F06-LED-E1-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	176.3	176.3	176.3	176.3	176.3	176.3	176.3
2.5°	156.8	150.3	147.8	146.5	146.5	147.8	146.5
5°	138.7	132.2	129.6	127.1	127.1	127.1	128.4
7.5°	127.1	120.6	116.7	115.3	114.0	115.3	115.3
10°	116.7	111.4	106.3	103.7	103.7	103.7	103.7
12.5°	108.9	102.4	97.2	95.9	94.6	94.6	94.6
15°	102.4	94.6	90.7	88.2	86.9	86.9	88.2
17.5°	94.6	88.2	83.0	81.7	81.7	81.7	81.7
20°	89.4	81.7	77.8	75.2	75.2	75.2	75.2
22.5°	83.0	76.5	71.3	68.7	68.7	68.7	68.7
25°	77.8	71.3	66.1	63.5	63.5	63.5	63.5
27.5°	72.6	66.1	60.9	58.3	58.3	58.3	58.3
30°	67.4	60.9	55.7	53.1	53.1	53.1	53.1
32.5°	63.5	55.7	50.5	48.0	48.0	49.3	48.0
35°	57.0	50.5	45.4	42.8	42.8	42.8	42.8
37.5°	51.8	45.4	40.2	37.6	37.6	37.6	36.3
40°	48.0	40.2	35.0	32.4	31.1	31.1	31.1
42.5°	41.5	33.7	29.8	27.3	26.0	26.0	26.0
45°	37.6	29.8	24.7	22.0	22.0	22.0	22.0
47.5°	33.7	26.0	20.7	18.1	18.1	19.4	19.4
50°	29.8	22.0	16.8	16.8	16.8	18.1	18.1
52.5°	26.0	19.4	15.5	15.5	16.8	18.1	18.1
55°	23.3	16.8	14.2	15.5	16.8	18.1	18.1
57.5°	20.7	14.2	14.2	15.5	16.8	18.1	18.1
60°	18.1	12.9	12.9	14.2	16.8	18.1	18.1
62.5°	15.5	12.9	12.9	14.2	16.8	18.1	18.1
65°	14.2	12.9	12.9	14.2	16.8	18.1	18.1
67.5°	12.9	11.6	12.9	14.2	15.5	16.8	16.8
70°	11.6	11.6	12.9	14.2	15.5	16.8	16.8
72.5°	11.6	11.6	11.6	12.9	14.2	15.5	15.5
75°	11.6	11.6	11.6	12.9	14.2	15.5	15.5
77.5°	11.6	10.3	10.3	11.6	14.2	15.5	15.5
80°	11.6	10.3	10.3	11.6	12.9	15.5	15.5
82.5°	9.1	9.1	10.3	11.6	12.9	14.2	14.2
85°	7.8	9.1	9.1	10.3	11.6	14.2	14.2
87.5°	6.5	6.5	7.8	9.1	10.3	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)