

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: P181347

Luminaire Tested: **ICM-E04-LED-E1-T3-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181347  
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-E04-LED-E1-T3-HSS-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

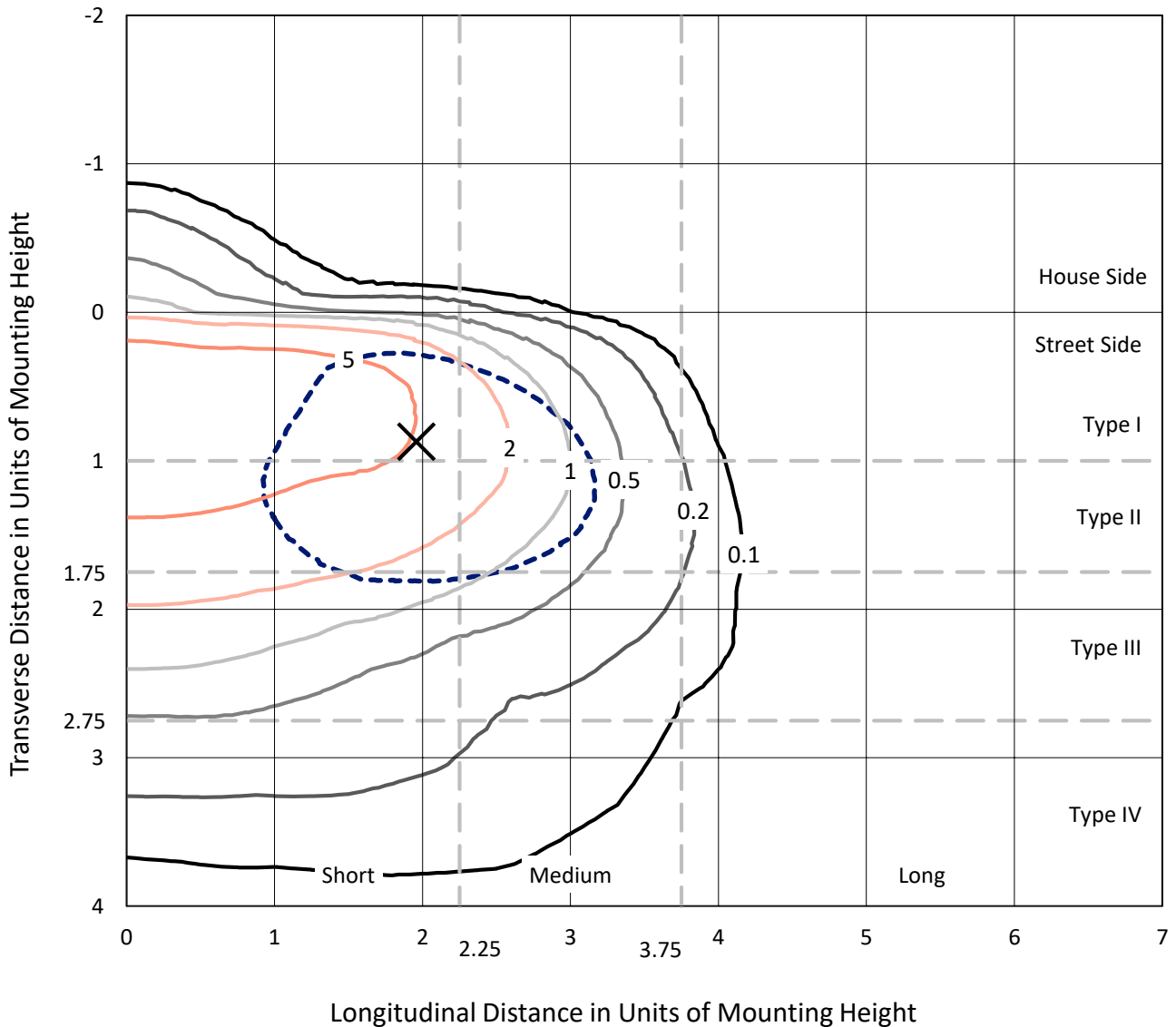
Lumens per Lamp: N/A  
Luminaire Lumens: 5119.9 lumens  
Efficiency: N/A  
Efficacy: 52.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 97.2  
Input Voltage (V): NR  
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: P181347  
 CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

### Iso-Footcandle Lines of Horizontal Illumination

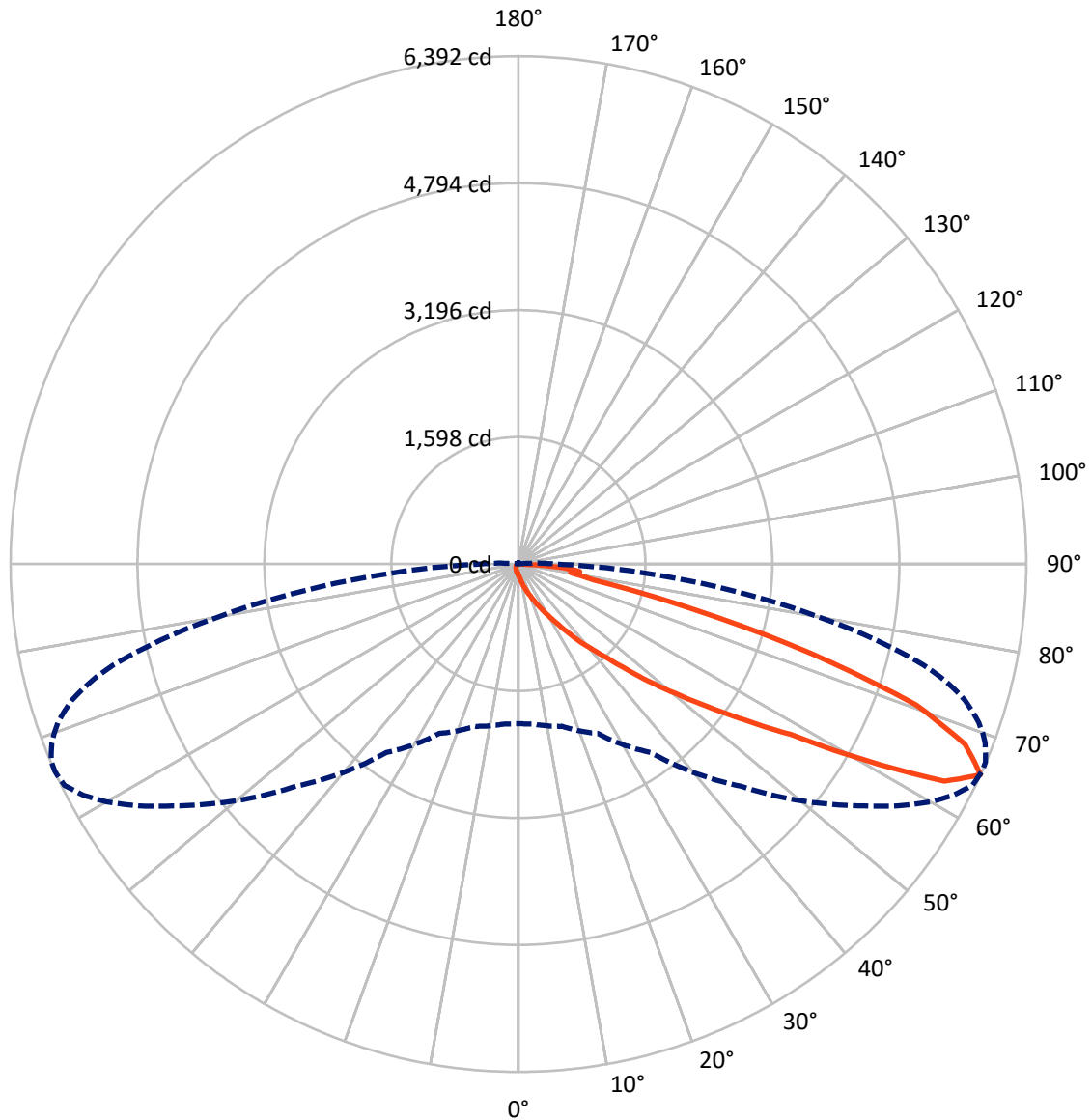
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P181347  
CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P181347

CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

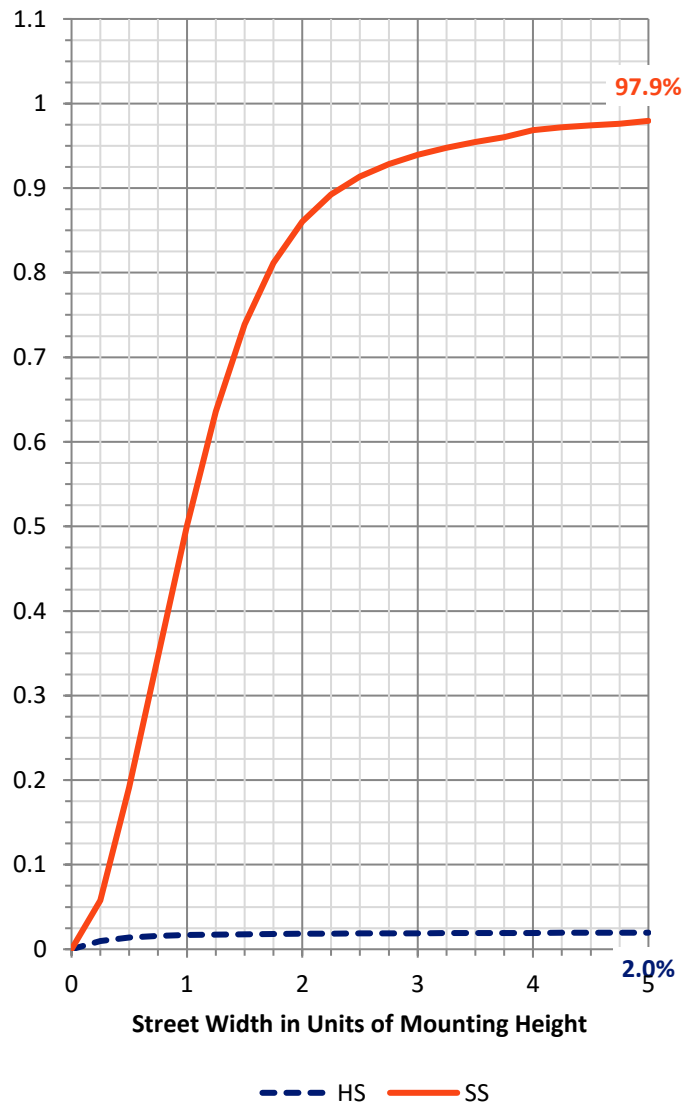
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	102.8	0.0	102.8
	% Fixture	2.0	0.0	2.0
<b>Street Side</b>	Lumens	5017.1	0.0	5017.1
	% Fixture	98.0	0.0	98.0
<b>Total</b>	Lumens	5119.9	0.0	5119.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.4	0.3
10°-20°	83.3	1.6
20°-30°	190.2	3.7
30°-40°	361.8	7.1
40°-50°	726.2	14.2
50°-60°	1284.9	25.1
60°-70°	1678.9	32.8
70°-80°	690.3	13.5
80°-90°	87.0	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°	5119.9	100.0
0°-180°	5119.9	100.0



REPORT NUMBER: P181347

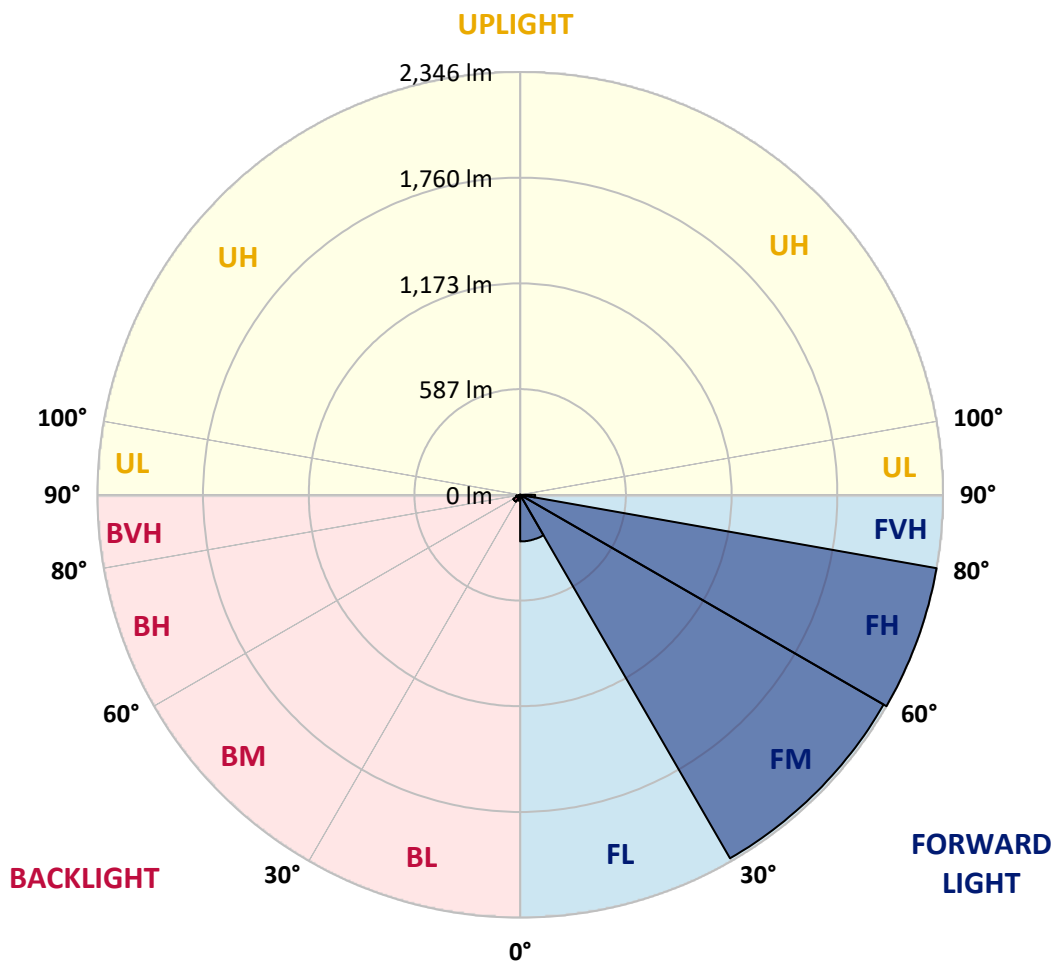
CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.7	5.1			
FM	(30°-60°)	2328.9	45.5			
FH	(60°-80°)	2346.4	45.8			G2/5000
FVH	(80°-90°)	83.1	1.6			G1/100
BL	(0°-30°)	32.1	0.6	B0/110		
BM	(30°-60°)	44.0	0.9	B0/220		
BH	(60°-80°)	22.7	0.4	B0/110		G0/110
BVH	(80°-90°)	3.9	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: P181347

CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	188.5	185.3	186.3	180.1	175.9	170.6	166.4	165.4	164.4	162.2	163.3
5°	271.2	268.0	260.7	248.1	236.6	218.8	201.0	199.9	196.8	193.7	191.5
7.5°	376.8	371.6	363.3	342.3	314.0	282.6	247.1	243.9	239.7	235.5	231.4
10°	499.4	496.2	480.5	456.4	413.5	362.2	302.5	299.4	290.0	284.7	280.6
12.5°	628.1	614.5	608.2	566.3	517.1	447.0	370.6	359.1	351.7	344.4	334.0
15°	725.4	727.5	712.8	679.4	621.8	540.2	444.9	432.4	421.9	408.3	395.7
17.5°	813.4	809.2	793.5	772.6	718.1	635.4	524.5	507.7	491.0	483.6	465.9
20°	884.6	882.4	869.9	850.1	808.1	728.6	608.2	594.6	575.7	563.2	543.3
22.5°	941.1	941.1	933.8	922.2	881.4	817.6	697.2	682.5	663.7	648.0	626.0
25°	986.1	985.0	986.1	980.8	953.7	895.0	788.3	771.5	755.8	736.9	716.0
27.5°	1037.4	1039.4	1037.4	1034.2	1022.7	975.6	880.4	868.8	851.1	831.2	810.2
30°	1116.9	1110.7	1109.6	1107.5	1094.0	1064.7	975.6	962.1	948.4	934.8	920.2
32.5°	1200.7	1190.2	1187.1	1187.1	1177.7	1151.5	1085.6	1078.2	1058.3	1047.8	1035.3
35°	1295.9	1291.7	1287.5	1288.7	1284.5	1257.2	1202.8	1204.8	1198.6	1177.7	1165.1
37.5°	1435.2	1436.2	1428.9	1415.3	1415.3	1391.3	1359.8	1355.6	1339.9	1334.7	1327.4
40°	1634.1	1628.8	1622.5	1602.7	1595.4	1554.5	1525.2	1514.7	1502.1	1501.1	1492.8
42.5°	1864.4	1858.1	1858.1	1843.5	1828.8	1779.5	1724.1	1716.8	1703.2	1707.4	1704.2
45°	2078.0	2083.2	2090.5	2100.9	2103.1	2082.2	2001.5	1992.1	1984.8	1980.6	1977.4
47.5°	2262.2	2271.5	2295.6	2340.7	2398.2	2405.6	2341.7	2316.6	2311.4	2304.0	2297.8
50°	2394.1	2407.6	2462.2	2550.1	2662.1	2731.2	2696.6	2675.6	2674.6	2654.7	2652.7
52.5°	2469.4	2484.1	2573.0	2706.1	2879.8	3014.8	3057.8	3056.7	3054.6	3036.9	3029.5
55°	2486.2	2501.9	2608.7	2789.8	3037.9	3271.3	3435.6	3439.8	3449.2	3444.0	3444.0
57.5°	2440.1	2460.0	2576.2	2800.2	3120.6	3474.3	3833.4	3857.5	3869.0	3909.9	3957.0
60°	2355.4	2370.0	2486.2	2736.4	3135.2	3659.7	4350.5	4427.0	4486.6	4567.3	4643.7
62.5°	2198.3	2227.6	2338.6	2610.8	3091.3	3873.2	4968.2	5109.5	5225.7	5348.2	5495.8
65°	2007.8	2020.4	2114.5	2352.2	2894.4	3954.9	5309.4	5447.7	5596.3	5727.1	5859.0
67.5°	1769.1	1779.5	1861.2	1962.8	2388.9	3572.8	4973.4	5126.3	5260.2	5368.0	5540.8
70°	1158.8	1181.9	1381.8	1482.3	1669.7	2641.1	4066.9	4214.4	4317.0	4390.4	4590.3
72.5°	848.9	863.6	944.2	1151.5	1197.6	1560.8	2862.0	3022.2	3059.8	3198.1	3291.2
75°	518.1	554.8	736.9	986.1	1167.2	1068.8	1714.7	1792.1	1879.1	1979.5	2068.5
77.5°	104.7	119.3	240.7	679.4	1026.9	1142.1	1023.8	1038.4	1081.4	1090.8	1124.3
80°	16.7	17.8	31.4	293.1	594.6	923.3	1023.8	1010.1	986.1	969.3	952.6
82.5°	7.3	8.4	13.6	74.3	126.7	307.7	885.6	954.7	1034.2	1078.2	1089.8
85°	3.2	3.2	5.2	14.7	18.9	20.9	149.7	197.9	352.7	468.9	540.2
87.5°	2.1	2.1	3.2	3.2	4.2	5.2	7.3	7.3	8.4	9.4	13.6
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: P181347

CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	163.3	162.2	162.2	159.1	159.1	158.0	158.0	157.0	157.0	154.9	156.0
5°	190.5	188.5	186.3	183.2	182.1	180.1	178.0	174.8	173.8	171.7	170.6
7.5°	227.2	225.0	220.8	214.6	210.4	206.2	202.0	197.9	194.7	191.5	189.5
10°	272.2	265.9	263.8	251.3	246.0	237.6	232.4	228.2	222.0	216.7	213.6
12.5°	326.6	321.4	310.9	294.1	285.8	278.4	269.0	260.7	254.4	244.9	238.7
15°	383.2	379.0	364.3	345.5	335.0	321.4	311.9	303.5	290.0	283.7	272.2
17.5°	454.3	441.8	427.1	399.9	386.2	374.8	358.0	345.5	337.1	318.2	307.7
20°	527.6	514.0	495.2	464.7	446.0	428.2	414.5	397.8	380.0	367.4	349.7
22.5°	611.4	589.4	574.7	537.0	515.1	496.2	473.1	455.4	437.6	417.7	397.8
25°	700.3	678.3	660.6	617.6	594.6	575.7	548.6	523.4	501.4	479.4	456.4
27.5°	793.5	773.6	753.7	709.8	689.9	663.7	638.5	609.2	581.0	561.1	529.7
30°	901.3	884.6	862.6	815.4	793.5	766.2	740.1	705.6	678.3	651.1	620.7
32.5°	1017.5	1003.9	980.8	939.0	912.8	889.8	861.5	828.0	789.3	761.0	725.4
35°	1158.8	1135.8	1122.1	1082.4	1062.5	1037.4	1008.1	978.8	938.0	898.1	867.8
37.5°	1320.0	1309.6	1291.7	1254.1	1239.4	1213.2	1194.4	1165.1	1133.7	1083.4	1051.0
40°	1485.4	1478.1	1462.4	1424.8	1410.1	1392.3	1370.2	1342.1	1304.4	1278.1	1230.1
42.5°	1695.8	1684.3	1671.7	1636.2	1607.9	1586.0	1576.5	1552.5	1512.7	1479.2	1441.5
45°	1962.8	1957.6	1940.8	1905.2	1876.9	1862.2	1847.6	1806.8	1780.7	1747.2	1720.9
47.5°	2285.2	2268.5	2260.1	2220.3	2210.9	2199.4	2161.7	2138.6	2100.9	2074.8	2042.3
50°	2633.8	2616.0	2617.0	2568.9	2571.0	2562.6	2534.3	2507.1	2474.7	2451.6	2431.7
52.5°	3008.6	3016.9	2996.0	3010.6	2993.9	2975.1	2969.8	2936.3	2908.0	2907.0	2879.8
55°	3469.1	3455.6	3460.8	3475.5	3452.4	3473.3	3462.9	3419.9	3421.0	3429.4	3398.0
57.5°	3964.3	3984.2	4027.1	4036.5	4076.3	4049.0	4120.3	4069.0	4100.4	4100.4	4079.5
60°	4690.8	4770.4	4874.0	4954.5	5028.9	5004.9	5098.0	5039.4	5081.2	5045.6	5027.8
62.5°	5565.9	5671.7	5794.2	5925.0	6000.3	6019.2	6005.6	6031.8	5990.9	5964.8	5896.7
65°	5986.7	6091.4	6198.2	6355.2	6376.1	6391.9	6385.6	6341.6	6291.4	6217.1	6128.0
67.5°	5637.2	5783.7	5843.3	6024.4	6085.2	6063.2	6070.5	6014.0	5935.5	5862.2	5731.3
70°	4674.1	4841.5	4873.0	5132.6	5204.8	5309.4	5271.8	5255.0	5169.1	5107.4	4962.9
72.5°	3403.2	3534.1	3523.6	3815.7	3803.1	3846.0	3947.6	3943.4	3853.3	3833.4	3712.0
75°	2094.7	2173.2	2169.0	2376.3	2289.4	2276.9	2305.1	2292.6	2207.7	2119.8	2044.5
77.5°	1109.6	1145.2	1107.5	1045.8	1039.4	969.3	949.5	948.4	883.5	803.9	745.3
80°	934.8	898.1	854.2	764.2	711.8	664.7	620.7	579.9	536.0	477.3	406.1
82.5°	1091.8	1074.1	1042.6	929.6	875.2	780.9	710.8	644.8	564.2	503.5	412.5
85°	531.8	530.7	555.8	544.4	524.5	520.3	451.2	436.6	404.1	370.6	309.9
87.5°	14.7	10.5	12.6	10.5	12.6	13.6	9.4	22.0	13.6	12.6	14.7
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: P181347

CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	154.9	153.9	152.8	152.8	151.8	151.8	150.7	149.7	149.7	148.7	148.7
5°	168.6	166.4	165.4	164.4	162.2	161.2	159.1	158.0	156.0	154.9	152.8
7.5°	185.3	183.2	179.0	176.9	173.8	172.7	167.5	165.4	163.3	161.2	158.0
10°	206.2	201.0	196.8	192.7	187.3	183.2	179.0	175.9	171.7	166.4	164.4
12.5°	232.4	225.0	218.8	211.4	205.2	198.9	191.5	186.3	180.1	174.8	169.6
15°	261.7	251.3	242.9	232.4	222.0	214.6	207.3	199.9	191.5	184.3	178.0
17.5°	295.2	281.6	270.0	257.5	246.0	235.5	223.0	213.6	204.1	193.7	185.3
20°	330.8	317.2	301.5	287.9	271.2	259.6	243.9	231.4	217.8	207.3	195.7
22.5°	377.9	360.1	340.2	321.4	303.5	285.8	269.0	253.3	236.6	220.8	209.4
25°	433.4	411.4	386.2	367.4	342.3	322.4	301.5	281.6	263.8	243.9	225.0
27.5°	502.5	473.1	446.0	419.8	392.6	367.4	340.2	317.2	293.1	270.0	249.1
30°	583.1	554.8	514.0	484.7	457.5	422.9	395.7	365.3	338.1	304.7	281.6
32.5°	689.9	653.2	610.3	571.5	536.0	497.2	459.5	420.8	385.2	354.9	320.3
35°	829.1	786.1	734.9	685.7	645.9	598.8	550.6	506.7	465.9	421.9	379.0
37.5°	1004.9	965.1	909.7	850.1	796.7	740.1	689.9	628.1	573.7	520.3	465.9
40°	1179.7	1143.2	1085.6	1021.7	952.6	887.7	823.8	753.7	684.7	617.6	561.1
42.5°	1395.5	1340.9	1279.2	1207.0	1140.0	1062.5	983.0	902.3	819.6	739.1	658.4
45°	1666.5	1624.7	1537.8	1460.3	1380.8	1289.7	1191.3	1099.2	993.4	898.1	791.4
47.5°	1996.3	1920.9	1857.0	1785.9	1686.4	1598.5	1472.8	1364.0	1232.1	1105.4	977.8
50°	2385.7	2343.8	2259.0	2170.1	2062.2	1957.6	1835.1	1678.1	1520.0	1384.9	1210.1
52.5°	2841.0	2781.4	2728.0	2635.9	2526.0	2392.0	2252.8	2082.2	1888.5	1698.0	1511.6
55°	3381.2	3339.4	3288.0	3214.8	3074.5	2922.7	2755.2	2551.1	2321.9	2065.4	1848.7
57.5°	4078.4	4034.4	3985.2	3834.5	3739.2	3552.9	3310.1	3098.6	2851.6	2522.8	2253.8
60°	5030.0	4970.3	4901.2	4778.7	4579.8	4338.0	4077.3	3764.4	3461.8	3102.8	2750.0
62.5°	5843.3	5748.0	5600.5	5442.4	5203.8	4926.4	4598.6	4230.2	3885.8	3481.7	3089.1
65°	6010.8	5879.9	5706.2	5499.9	5254.0	4941.0	4598.6	4245.9	3840.8	3460.8	3066.2
67.5°	5575.4	5423.6	5245.6	5015.3	4780.8	4458.4	4163.2	3804.1	3423.1	3094.3	2741.6
70°	4859.3	4634.3	4452.1	4207.2	3969.5	3716.2	3405.3	3136.3	2826.4	2523.8	2253.8
72.5°	3649.2	3427.3	3261.9	3066.2	2924.8	2656.9	2428.6	2227.6	2044.5	1818.3	1618.3
75°	1967.0	1800.6	1689.6	1600.6	1474.0	1297.0	1188.1	1050.0	972.5	878.2	787.2
77.5°	641.7	565.3	482.6	402.0	345.5	259.6	251.3	199.9	188.5	183.2	141.3
80°	328.7	253.3	183.2	131.9	100.5	89.0	84.8	80.6	76.4	73.3	68.0
82.5°	329.8	238.7	164.4	114.1	82.7	69.1	64.9	62.8	59.6	56.6	52.4
85°	240.7	178.0	122.5	83.7	57.6	46.0	44.0	40.8	38.7	37.7	33.5
87.5°	15.7	11.5	10.5	9.4	9.4	9.4	10.5	9.4	10.5	10.5	9.4
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: P181347

CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	147.6	146.5	146.5	145.5	144.5	144.5	143.4	143.4	140.3	135.1	130.9
5°	151.8	149.7	148.7	147.6	146.5	144.5	143.4	142.3	137.1	126.7	118.3
7.5°	154.9	152.8	151.8	149.7	146.5	145.5	143.4	141.3	132.9	118.3	108.8
10°	160.2	157.0	153.9	150.7	147.6	145.5	142.3	140.3	127.7	111.0	101.6
12.5°	165.4	161.2	157.0	151.8	148.7	145.5	142.3	138.1	123.5	104.7	94.2
15°	171.7	165.4	160.2	154.9	149.7	145.5	140.3	137.1	119.3	99.4	90.0
17.5°	178.0	170.6	163.3	156.0	150.7	144.5	140.3	135.1	115.2	95.3	84.8
20°	185.3	174.8	167.5	159.1	151.8	144.5	138.1	132.9	111.0	90.0	79.5
22.5°	195.7	183.2	171.7	162.2	152.8	145.5	138.1	130.9	106.8	85.9	75.3
25°	209.4	193.7	180.1	168.6	157.0	147.6	139.3	131.9	103.6	82.7	70.1
27.5°	229.2	209.4	194.7	179.0	164.4	152.8	142.3	134.0	101.6	79.5	67.0
30°	253.3	233.4	210.4	191.5	175.9	160.2	148.7	136.1	99.4	76.4	62.8
32.5°	288.9	260.7	233.4	210.4	188.5	170.6	153.9	141.3	98.4	71.2	58.6
35°	340.2	301.5	269.0	238.7	208.3	186.3	166.4	149.7	97.4	67.0	54.4
37.5°	413.5	367.4	325.6	282.6	244.9	213.6	186.3	164.4	97.4	63.8	50.2
40°	492.0	432.4	379.0	325.6	277.4	237.6	201.0	173.8	95.3	59.6	46.0
42.5°	581.0	507.7	434.4	368.5	308.8	257.5	214.6	181.1	90.0	55.4	41.9
45°	700.3	604.0	516.1	431.3	353.9	286.8	232.4	189.5	84.8	52.4	37.7
47.5°	850.1	738.1	623.9	517.1	415.6	330.8	258.6	203.1	81.7	48.2	34.5
50°	1073.0	913.9	763.2	627.1	498.3	387.4	297.3	223.0	78.5	45.0	31.4
52.5°	1318.0	1122.1	945.3	770.4	610.3	463.7	342.3	249.1	75.3	41.9	28.3
55°	1616.3	1375.5	1159.9	932.7	727.5	552.7	397.8	278.4	71.2	38.7	26.1
57.5°	1984.8	1680.1	1424.8	1147.4	889.8	667.9	472.1	327.6	67.0	34.5	23.1
60°	2396.2	2051.7	1730.4	1404.8	1092.8	820.7	582.1	397.8	62.8	30.3	19.9
62.5°	2692.4	2314.5	1947.1	1581.8	1239.4	934.8	671.0	452.2	56.6	26.1	17.8
65°	2689.3	2306.2	1936.6	1576.5	1243.6	939.0	674.1	462.7	50.2	23.1	15.7
67.5°	2396.2	2073.8	1744.0	1420.6	1129.5	854.2	623.9	429.2	42.9	20.9	13.6
70°	1971.2	1714.7	1454.1	1197.6	964.1	731.7	539.1	373.7	36.7	18.9	11.5
72.5°	1439.4	1252.0	1092.8	911.8	752.7	577.9	430.2	293.1	29.3	15.7	10.5
75°	715.0	639.6	548.6	492.0	419.8	343.4	267.0	170.6	24.1	12.6	9.4
77.5°	136.1	121.4	116.2	100.5	92.1	81.7	72.2	51.3	18.9	9.4	8.4
80°	62.8	57.6	52.4	47.1	41.9	35.6	31.4	27.3	14.7	7.3	9.4
82.5°	49.2	45.0	39.8	35.6	31.4	27.3	23.1	19.9	9.4	6.3	9.4
85°	32.5	28.3	25.1	22.0	18.9	16.7	14.7	12.6	6.3	6.3	6.3
87.5°	9.4	9.4	8.4	8.4	7.3	7.3	6.3	6.3	5.2	5.2	5.2
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: P181347

CATALOG NUMBER: ICM-E04-LED-E1-T3-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	142.3	142.3	142.3	142.3	142.3	142.3	142.3
2.5°	126.7	121.4	119.3	118.3	118.3	119.3	118.3
5°	112.0	106.8	104.7	102.6	102.6	102.6	103.6
7.5°	102.6	97.4	94.2	93.2	92.1	93.2	93.2
10°	94.2	90.0	85.9	83.7	83.7	83.7	83.7
12.5°	87.9	82.7	78.5	77.5	76.4	76.4	76.4
15°	82.7	76.4	73.3	71.2	70.1	70.1	71.2
17.5°	76.4	71.2	67.0	66.0	66.0	66.0	66.0
20°	72.2	66.0	62.8	60.7	60.7	60.7	60.7
22.5°	67.0	61.8	57.6	55.4	55.4	55.4	55.4
25°	62.8	57.6	53.4	51.3	51.3	51.3	51.3
27.5°	58.6	53.4	49.2	47.1	47.1	47.1	47.1
30°	54.4	49.2	45.0	42.9	42.9	42.9	42.9
32.5°	51.3	45.0	40.8	38.7	38.7	39.8	38.7
35°	46.0	40.8	36.7	34.5	34.5	34.5	34.5
37.5°	41.9	36.7	32.5	30.3	30.3	30.3	29.3
40°	38.7	32.5	28.3	26.1	25.1	25.1	25.1
42.5°	33.5	27.3	24.1	22.0	20.9	20.9	20.9
45°	30.3	24.1	19.9	17.8	17.8	17.8	17.8
47.5°	27.3	20.9	16.7	14.7	14.7	15.7	15.7
50°	24.1	17.8	13.6	13.6	13.6	14.7	14.7
52.5°	20.9	15.7	12.6	12.6	13.6	14.7	14.7
55°	18.9	13.6	11.5	12.6	13.6	14.7	14.7
57.5°	16.7	11.5	11.5	12.6	13.6	14.7	14.7
60°	14.7	10.5	10.5	11.5	13.6	14.7	14.7
62.5°	12.6	10.5	10.5	11.5	13.6	14.7	14.7
65°	11.5	10.5	10.5	11.5	13.6	14.7	14.7
67.5°	10.5	9.4	10.5	11.5	12.6	13.6	13.6
70°	9.4	9.4	10.5	11.5	12.6	13.6	13.6
72.5°	9.4	9.4	9.4	10.5	11.5	12.6	12.6
75°	9.4	9.4	9.4	10.5	11.5	12.6	12.6
77.5°	9.4	8.4	8.4	9.4	11.5	12.6	12.6
80°	9.4	8.4	8.4	9.4	10.5	12.6	12.6
82.5°	7.3	7.3	8.4	9.4	10.5	11.5	11.5
85°	6.3	7.3	7.3	8.4	9.4	11.5	11.5
87.5°	5.2	5.2	6.3	7.3	8.4	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)