

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: P162290

Luminaire Tested: **ECM-F03-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162290  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-F03-LED-E1-SL2-HSS-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

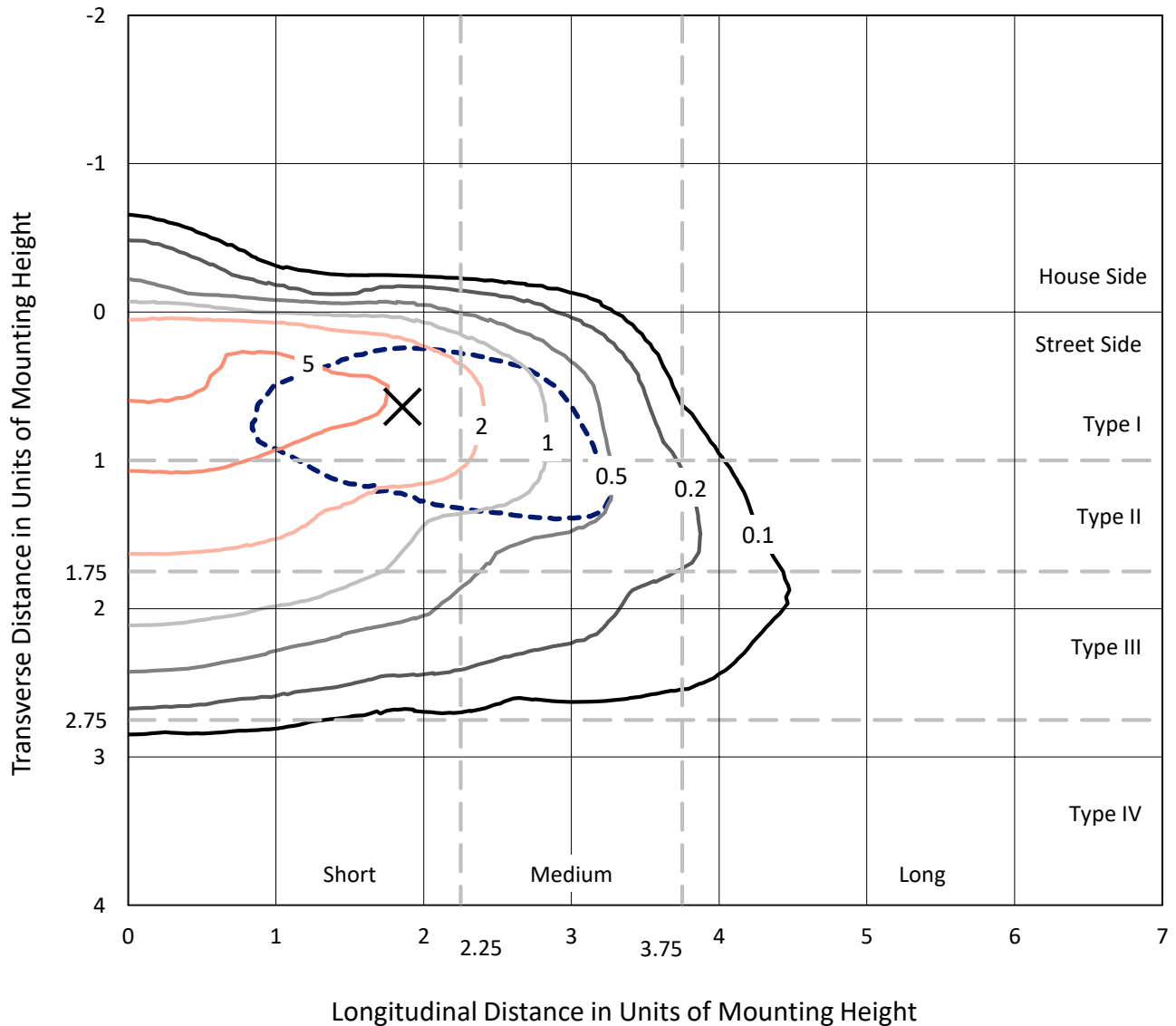
Lumens per Lamp: N/A  
Luminaire Lumens: 3643.8 lumens  
Efficiency: N/A  
Efficacy: 46.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (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



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### Iso-Footcandle Lines of Horizontal Illumination

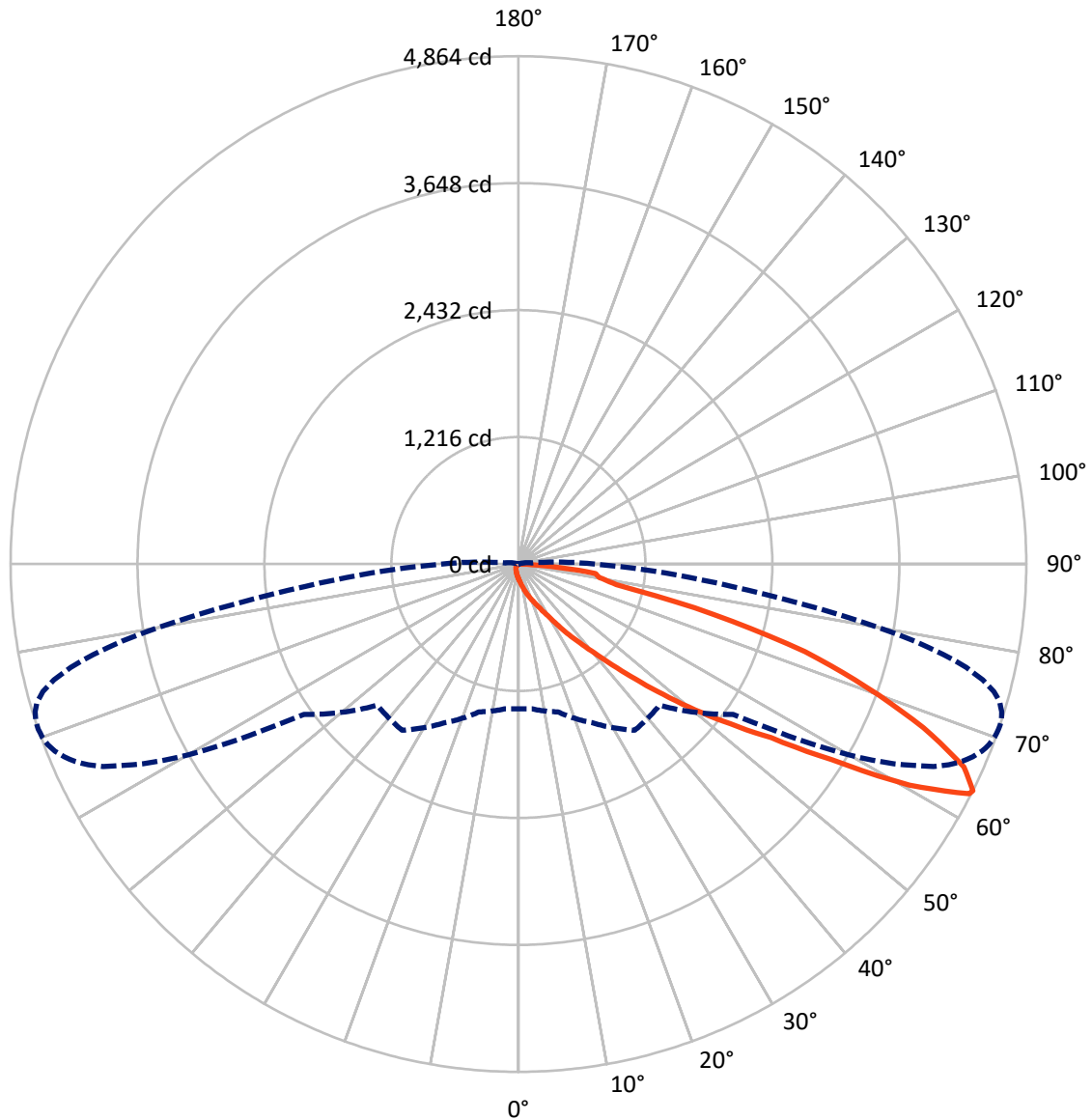
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	77.4	0.0	77.4
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	3566.5	0.0	3566.5
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	3643.8	0.0	3643.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.4	0.4
10°-20°	59.9	1.6
20°-30°	121.7	3.3
30°-40°	297.3	8.2
40°-50°	664.9	18.2
50°-60°	935.0	25.7
60°-70°	1099.5	30.2
70°-80°	397.0	10.9
80°-90°	53.1	1.5
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°	3643.8	100.0
0°-180°	3643.8	100.0



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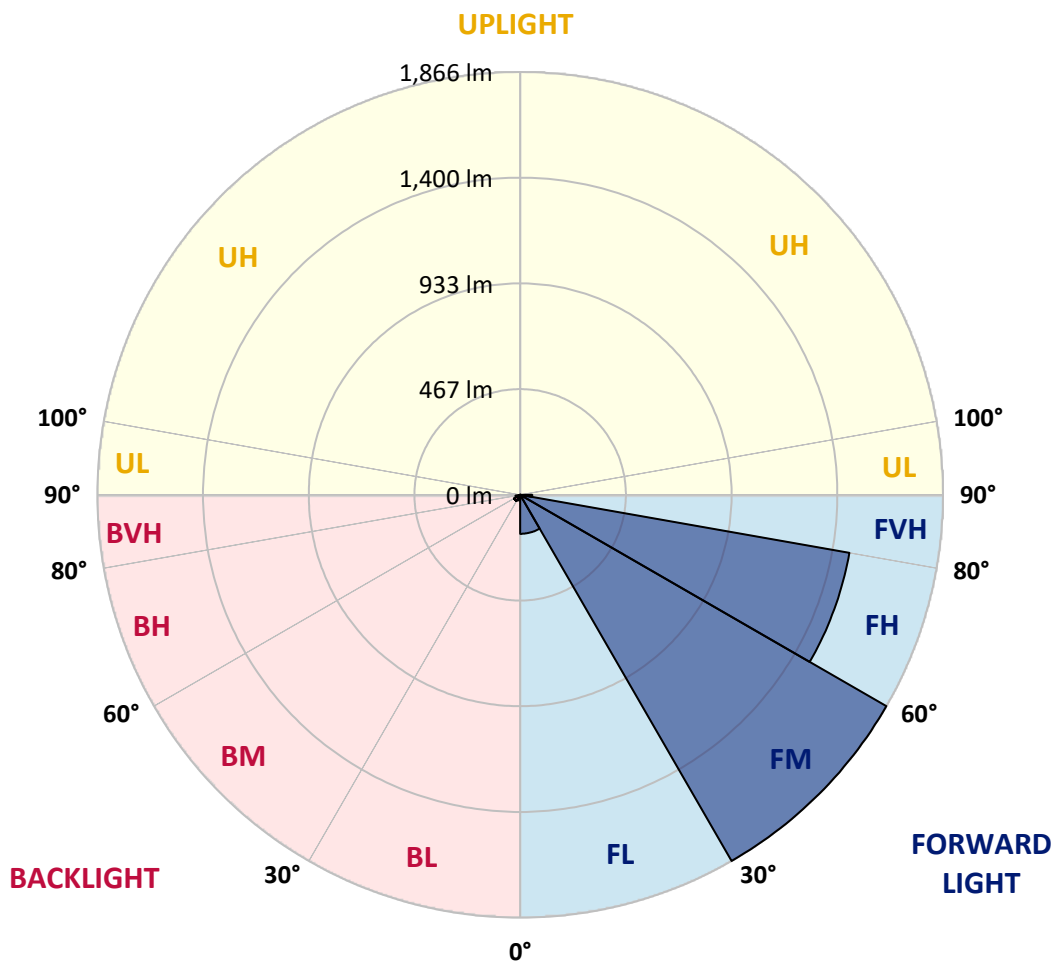
CATALOG NUMBER: ECM-F03-LED-E1-SL2-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.2	4.7			
FM	(30°-60°)	1866.1	51.2			
FH	(60°-80°)	1475.2	40.5			G1/1800
FVH	(80°-90°)	53.0	1.5			G1/100
BL	(0°-30°)	24.9	0.7	B0/110		
BM	(30°-60°)	31.2	0.9	B0/220		
BH	(60°-80°)	21.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	0.0			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°	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8
2.5°	182.8	184.8	183.5	180.2	176.2	170.9	166.2	166.2	165.6	163.6	164.3
5°	239.8	240.4	237.8	229.9	222.6	211.3	198.7	197.4	196.1	194.1	193.4
7.5°	295.4	298.1	295.4	286.8	272.3	255.0	235.1	233.2	229.2	229.2	226.6
10°	352.4	352.4	349.8	339.8	326.6	302.0	276.9	273.6	268.9	267.6	263.6
12.5°	392.8	392.8	391.5	386.2	375.6	353.7	323.3	319.9	314.0	312.0	307.4
15°	408.7	408.7	409.4	414.0	414.7	404.7	373.0	370.3	364.3	359.0	357.1
17.5°	418.7	418.0	418.0	424.6	436.6	443.2	422.6	420.0	413.4	410.7	404.1
20°	440.5	439.2	435.2	435.2	446.5	469.7	469.7	469.0	461.7	459.7	456.4
22.5°	472.9	471.6	459.7	449.8	455.1	484.2	511.4	510.1	507.4	504.8	502.8
25°	526.0	521.3	500.8	471.6	467.0	498.2	543.2	546.5	548.5	548.5	549.8
27.5°	606.1	600.2	563.7	509.4	488.9	520.7	578.3	584.9	590.9	592.2	598.1
30°	717.4	706.8	654.5	575.0	528.0	553.8	630.0	637.2	645.9	648.5	657.8
32.5°	900.3	894.3	844.0	724.7	624.0	618.7	702.2	711.4	722.7	727.3	738.6
35°	1178.5	1179.8	1138.7	1031.4	892.3	819.4	831.3	839.3	843.3	857.2	863.1
37.5°	1367.3	1370.5	1379.8	1337.5	1238.1	1163.9	1070.5	1079.1	1058.6	1060.6	1061.2
40°	1470.6	1481.2	1535.5	1576.6	1568.6	1525.6	1450.7	1455.3	1417.0	1408.3	1366.6
42.5°	1539.5	1553.4	1640.2	1767.3	1832.3	1871.4	1854.2	1852.1	1822.3	1811.1	1776.0
45°	1582.6	1595.1	1704.4	1891.9	2041.6	2155.6	2202.6	2207.9	2182.7	2171.4	2142.3
47.5°	1580.5	1595.1	1712.4	1938.2	2158.8	2341.0	2473.5	2480.1	2495.4	2485.5	2487.4
50°	1493.1	1507.0	1624.9	1859.4	2124.4	2425.8	2668.3	2689.5	2714.0	2730.5	2738.4
52.5°	1387.1	1397.1	1501.7	1724.3	1977.3	2390.7	2783.5	2820.0	2856.4	2887.6	2909.4
55°	1348.0	1359.3	1441.5	1626.3	1859.4	2243.6	2837.2	2890.8	2942.5	2993.5	3035.3
57.5°	1368.6	1379.2	1438.1	1579.9	1789.2	2088.6	2852.4	2935.9	3020.7	3103.5	3185.6
60°	1444.1	1455.3	1505.7	1623.0	1770.7	1999.2	2792.8	2931.2	3072.3	3216.8	3352.6
62.5°	1414.3	1418.9	1493.1	1698.4	1903.1	1923.1	2576.2	2769.6	2984.9	3207.5	3426.8
63°	1385.8	1391.1	1466.6	1677.9	1943.5	1911.8	2509.3	2713.3	2940.5	3180.3	3418.8
65°	1256.6	1257.3	1314.9	1481.9	1898.5	1931.6	2211.2	2406.0	2667.0	2954.4	3255.8
67.5°	938.0	933.3	989.0	1116.2	1490.5	1932.3	1897.8	2007.2	2188.7	2443.7	2714.0
70°	332.6	325.2	415.3	591.5	928.7	1580.5	1630.9	1638.2	1688.5	1826.3	1995.9
72.5°	108.0	109.9	132.5	216.6	427.9	1063.8	1476.5	1454.0	1440.8	1440.2	1462.7
75°	43.1	43.8	53.0	96.1	192.1	512.7	1293.1	1305.6	1310.3	1316.9	1324.2
77.5°	20.6	22.5	29.8	53.6	95.4	253.7	925.4	1032.1	1093.0	1140.1	1168.5
80°	7.3	8.6	16.6	33.1	44.4	116.6	487.6	588.3	677.6	793.0	892.3
82.5°	0.0	0.0	3.3	23.2	24.5	47.0	200.0	234.5	268.3	347.7	446.5
85°	0.0	0.0	0.0	6.6	7.3	7.9	67.6	81.4	91.4	106.7	123.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	4.0	10.0	15.3
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8
2.5°	163.0	162.3	162.3	160.9	160.3	159.0	158.3	156.3	155.7	155.7	155.7
5°	192.8	190.1	188.8	185.5	183.5	182.8	179.5	178.2	176.2	176.9	173.6
7.5°	225.9	221.3	219.3	214.6	213.3	208.7	207.3	204.0	202.1	198.1	196.8
10°	262.3	256.3	253.1	245.7	243.8	240.4	236.5	232.5	229.2	225.3	223.2
12.5°	304.1	298.8	296.1	286.1	281.6	276.9	271.6	266.3	261.0	257.7	253.1
15°	353.1	344.5	341.8	332.6	324.6	318.6	311.4	304.7	300.7	294.1	289.5
17.5°	401.5	392.8	390.8	376.9	368.3	364.3	356.4	347.7	340.5	333.9	326.6
20°	449.8	443.8	438.5	425.3	416.0	409.4	398.8	390.2	384.2	374.9	365.6
22.5°	498.2	492.2	488.2	474.3	465.7	456.4	447.2	437.9	429.3	418.0	407.4
25°	547.8	543.9	541.9	529.3	521.3	512.7	503.5	492.9	482.3	469.7	458.4
27.5°	599.5	600.8	596.8	594.2	585.6	579.6	565.1	557.7	549.8	534.6	520.7
30°	665.1	669.1	667.8	669.7	664.4	660.4	649.1	639.9	630.6	616.1	600.2
32.5°	747.9	753.2	755.8	763.1	760.5	759.2	755.8	742.6	736.0	710.8	704.2
35°	875.7	873.1	884.4	890.3	887.6	886.3	882.3	875.1	867.1	849.3	832.7
37.5°	1042.0	1044.6	1048.7	1036.7	1028.7	1028.1	1016.2	1008.9	997.6	977.7	957.9
40°	1346.7	1330.1	1311.6	1261.2	1239.4	1226.8	1191.7	1181.8	1162.6	1135.4	1114.8
42.5°	1742.8	1726.3	1670.6	1586.5	1541.5	1479.2	1450.7	1415.6	1388.5	1344.1	1320.2
45°	2136.3	2088.6	2082.0	1984.0	1928.4	1846.2	1795.2	1736.2	1674.6	1616.4	1573.9
47.5°	2468.2	2457.6	2425.1	2365.6	2313.9	2245.0	2179.4	2088.6	2025.1	1942.2	1866.1
50°	2733.9	2733.2	2721.2	2686.8	2643.8	2588.1	2530.5	2453.6	2381.4	2280.1	2198.6
52.5°	2932.6	2943.2	2947.1	2936.5	2920.0	2871.0	2841.8	2777.5	2716.6	2630.5	2542.4
55°	3078.3	3117.4	3137.3	3159.8	3155.2	3138.0	3136.6	3094.9	3067.0	2998.8	2936.5
57.5°	3258.5	3322.7	3384.3	3493.6	3497.6	3536.1	3555.9	3575.8	3581.1	3553.9	3533.4
60°	3487.7	3618.8	3735.4	3963.9	4023.6	4117.6	4178.6	4244.9	4301.2	4305.8	4304.4
62.5°	3649.3	3851.3	4039.5	4378.6	4494.6	4603.2	4684.7	4748.9	4788.0	4827.8	4846.4
63°	3654.0	3875.2	4075.3	4425.0	4546.9	4650.2	4727.8	4787.3	4828.4	4852.3	4864.2
65°	3542.0	3810.3	4048.7	4397.2	4511.8	4615.8	4656.2	4695.3	4715.2	4724.4	4689.3
67.5°	3002.1	3264.4	3542.7	3932.2	4030.2	4154.8	4187.9	4207.7	4217.0	4215.0	4185.2
70°	2245.0	2464.9	2774.3	3219.4	3349.2	3471.1	3546.7	3579.1	3589.7	3586.4	3542.0
72.5°	1567.3	1696.5	1951.5	2447.0	2623.9	2780.2	2873.6	2922.0	2931.9	2912.0	2871.0
75°	1316.3	1322.9	1380.5	1651.4	1817.0	1984.0	2089.3	2119.7	2099.9	2039.6	1935.0
77.5°	1175.1	1189.7	1189.7	1230.2	1262.6	1309.0	1318.9	1244.7	1158.6	1047.3	957.2
80°	985.7	1036.7	1072.5	1102.3	1105.6	1096.3	1071.8	1030.1	963.9	879.1	785.0
82.5°	598.8	699.5	740.6	894.3	969.8	1020.8	1016.8	961.2	910.8	822.7	742.6
85°	151.1	163.0	176.9	229.9	257.7	314.6	350.5	367.0	373.0	342.4	310.0
87.5°	14.6	10.0	16.6	12.6	17.9	13.2	17.9	16.6	20.6	21.9	23.8
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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**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8
2.5°	154.3	153.7	153.0	152.4	151.7	151.1	149.7	149.7	148.4	147.7	147.1
5°	171.5	170.2	169.6	168.3	166.2	164.9	163.0	160.3	158.3	157.7	156.3
7.5°	193.4	190.1	188.8	186.8	184.1	180.2	177.5	175.6	172.2	170.2	166.2
10°	217.9	214.6	210.6	206.7	202.7	198.1	194.7	192.1	186.8	184.1	179.5
12.5°	249.1	243.1	238.5	233.2	227.9	222.6	218.6	210.6	206.0	200.0	196.1
15°	280.9	275.6	270.3	263.6	255.7	247.1	243.1	235.8	229.9	220.6	215.3
17.5°	319.3	309.4	301.4	293.5	286.1	278.2	270.3	259.0	250.4	242.5	231.9
20°	357.1	345.1	336.5	325.9	315.3	302.7	293.5	285.5	273.6	263.0	251.7
22.5°	397.5	385.5	371.6	361.0	346.4	336.5	323.9	310.7	298.8	284.8	271.0
25°	446.5	433.9	418.0	404.1	387.5	373.6	358.4	343.1	328.6	312.7	294.8
27.5°	506.7	493.5	476.3	459.7	437.9	420.6	406.1	385.5	367.0	347.1	326.6
30°	583.0	568.4	547.1	523.3	501.4	482.3	461.7	434.6	414.0	390.2	363.7
32.5°	682.3	665.1	636.6	614.1	586.9	561.7	533.3	506.1	476.9	445.8	415.3
35°	807.5	791.6	758.5	725.4	695.6	665.7	630.0	598.8	557.7	520.0	481.0
37.5°	937.3	908.8	878.4	842.6	805.5	769.8	726.0	682.9	635.9	594.9	545.8
40°	1085.7	1051.3	1026.1	987.7	935.4	884.4	844.0	790.3	731.3	676.3	618.7
42.5°	1289.1	1250.6	1205.6	1147.3	1109.6	1050.0	997.6	934.0	856.5	794.9	725.4
45°	1524.2	1471.9	1428.2	1371.9	1326.2	1252.0	1191.1	1106.3	1028.7	947.9	863.1
47.5°	1792.6	1727.6	1664.0	1608.3	1535.5	1462.7	1385.1	1295.0	1195.7	1106.9	1006.2
50°	2100.6	2008.5	1920.4	1848.9	1748.8	1664.7	1580.5	1479.2	1369.2	1267.2	1152.6
52.5°	2443.0	2336.4	2219.8	2109.9	1993.9	1885.9	1784.5	1668.0	1545.4	1420.9	1293.1
55°	2856.4	2776.2	2639.1	2499.3	2344.3	2199.9	2069.4	1925.0	1776.0	1612.3	1477.8
57.5°	3503.6	3464.5	3349.9	3210.1	3008.1	2832.5	2611.3	2434.4	2218.5	1993.2	1819.7
60°	4380.7	4332.3	4268.0	4154.8	3994.5	3756.0	3512.2	3237.3	2908.7	2596.7	2300.6
62.5°	4848.3	4831.1	4778.8	4700.6	4550.9	4362.7	4117.0	3814.9	3444.0	3065.1	2687.4
63°	4862.2	4840.4	4795.4	4715.9	4584.0	4401.8	4160.7	3867.2	3504.2	3118.0	2732.5
65°	4674.1	4665.5	4619.8	4533.0	4442.9	4303.8	4117.0	3864.6	3559.9	3194.9	2811.3
67.5°	4145.5	4119.7	4049.4	4023.0	3960.0	3863.3	3720.8	3547.3	3329.4	3042.5	2711.3
70°	3506.3	3467.8	3379.7	3332.7	3255.8	3194.9	3108.1	2984.3	2849.8	2649.7	2402.6
72.5°	2828.5	2749.1	2668.3	2545.7	2438.4	2329.7	2233.7	2146.3	1998.5	1917.8	1730.3
75°	1836.9	1692.5	1554.1	1368.6	1201.7	1054.0	910.1	837.3	685.6	624.0	535.9
77.5°	871.8	790.9	682.3	598.1	490.9	400.8	327.3	245.7	192.8	151.1	115.2
80°	703.5	635.3	569.7	493.5	412.7	329.2	252.4	188.8	133.8	92.7	65.6
82.5°	627.3	553.1	472.3	420.0	365.0	298.8	245.1	200.0	147.7	108.0	73.5
85°	243.8	205.3	158.3	129.2	100.7	82.8	74.8	51.7	40.4	31.8	24.5
87.5°	21.2	17.2	13.9	9.3	10.0	5.3	6.0	4.0	3.3	3.3	2.6
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°	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8	139.8
2.5°	146.4	145.8	145.1	143.7	143.7	142.4	141.8	141.1	137.8	130.5	124.5
5°	153.7	152.4	151.1	149.0	147.7	145.8	144.4	142.4	135.2	121.2	109.3
7.5°	164.3	161.6	159.6	155.7	153.7	151.1	149.0	145.8	133.8	112.6	96.1
10°	176.9	172.2	168.9	164.3	160.3	157.0	153.7	149.0	132.5	103.3	84.1
12.5°	192.1	186.8	180.2	174.9	169.6	164.9	160.3	154.3	130.5	95.4	74.8
15°	207.3	199.4	194.7	187.5	180.2	173.6	166.9	161.6	131.2	86.7	66.9
17.5°	224.6	216.6	206.7	198.7	190.8	182.2	174.2	163.6	127.9	80.1	61.0
20°	241.1	229.9	220.6	210.6	199.4	188.8	178.9	169.6	125.2	73.5	55.7
22.5°	259.0	245.7	233.8	221.3	207.3	195.4	183.5	171.5	120.5	67.6	51.0
25°	280.9	265.7	248.4	233.2	218.6	204.0	188.8	174.2	115.9	62.3	47.7
27.5°	307.4	287.5	270.3	251.0	230.5	211.9	195.4	179.5	111.3	58.3	44.4
30°	341.1	318.0	293.5	268.9	247.1	225.9	202.7	182.8	106.7	54.3	41.0
32.5°	386.2	357.1	327.3	298.8	269.6	242.5	217.9	192.1	104.0	51.0	37.8
35°	445.8	408.1	371.6	335.8	300.7	267.6	235.8	206.7	104.0	47.0	33.8
37.5°	502.1	458.4	412.0	367.7	325.9	287.5	249.7	214.6	98.7	43.8	30.4
40°	563.0	510.7	456.4	404.1	353.7	306.1	263.0	222.6	94.1	39.7	27.2
42.5°	656.5	590.2	519.3	458.4	398.1	339.2	285.5	237.8	88.1	35.7	23.8
45°	779.0	694.9	611.5	537.3	460.4	388.2	324.6	265.7	86.7	32.5	20.6
47.5°	910.1	810.8	712.8	618.1	528.0	443.8	367.7	296.7	86.7	29.1	17.9
50°	1040.6	916.1	811.5	701.5	600.2	500.8	410.0	329.2	87.4	26.5	14.6
52.5°	1158.6	1025.5	908.2	781.0	669.1	553.8	455.1	361.0	86.1	23.2	11.9
55°	1322.2	1165.8	1030.1	889.7	758.5	628.7	516.7	408.7	86.7	20.6	10.0
57.5°	1623.6	1440.2	1276.5	1092.3	941.3	773.7	637.9	506.7	94.8	17.2	7.3
60°	2056.2	1817.7	1587.9	1363.3	1171.1	971.8	795.6	641.2	111.3	13.9	5.3
62.5°	2347.0	2035.0	1760.7	1513.0	1289.7	1081.1	889.0	713.5	122.6	11.3	3.3
63°	2376.8	2054.2	1778.6	1522.9	1295.0	1086.4	892.9	718.8	123.2	10.6	3.3
65°	2433.1	2087.3	1788.6	1524.9	1289.7	1079.1	890.3	718.1	124.5	8.6	2.6
67.5°	2368.8	2036.3	1730.9	1468.0	1243.4	1036.0	857.2	691.6	123.9	6.0	2.0
70°	2118.4	1842.9	1574.6	1329.5	1125.4	938.0	780.3	630.6	113.9	4.0	1.3
72.5°	1555.4	1367.9	1159.9	983.0	847.9	704.2	600.8	473.6	88.1	2.6	0.7
75°	461.0	420.0	353.1	311.4	274.9	227.2	202.1	157.7	45.1	1.3	0.0
77.5°	92.1	83.5	74.8	68.2	64.2	55.0	52.3	43.1	18.5	0.7	0.0
80°	48.4	39.7	33.8	29.8	25.8	21.2	17.9	14.6	3.3	0.0	0.0
82.5°	46.4	31.1	22.5	18.5	15.9	12.6	10.0	7.3	2.0	0.0	0.0
85°	17.2	13.2	10.0	7.9	6.6	6.0	4.7	4.0	0.0	0.0	0.0
87.5°	2.6	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0
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: P162290

CATALOG NUMBER: ECM-F03-LED-E1-SL2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	139.8	139.8	139.8	139.8	139.8	139.8	139.8
2.5°	118.6	113.3	110.6	107.3	107.3	106.7	108.0
5°	98.7	91.4	86.1	82.1	82.8	80.8	81.4
7.5°	83.5	76.2	71.6	68.9	68.2	67.6	67.6
10°	72.2	65.6	61.6	59.6	58.9	58.9	58.9
12.5°	64.2	57.6	54.3	53.0	53.0	52.3	52.3
15°	57.6	52.3	49.1	47.7	47.7	47.0	47.7
17.5°	52.3	47.0	44.4	43.1	43.1	42.4	42.4
20°	47.7	43.1	40.4	38.4	38.4	37.8	38.4
22.5°	43.8	39.1	35.7	34.4	33.8	33.1	33.8
25°	39.7	35.1	31.8	29.8	29.1	29.1	28.5
27.5°	36.4	31.8	27.8	25.8	25.2	25.2	24.5
30°	33.1	27.8	23.8	21.9	21.2	21.2	21.2
32.5°	29.8	23.8	20.6	18.5	17.9	17.9	17.9
35°	26.5	20.6	17.2	15.3	14.6	14.6	14.6
37.5°	22.5	17.2	13.2	11.9	11.3	10.6	10.6
40°	19.2	13.2	10.0	8.6	7.3	7.3	7.3
42.5°	15.9	10.6	7.3	5.3	4.7	4.0	4.7
45°	13.2	7.9	4.7	2.6	2.0	2.0	2.0
47.5°	10.6	5.3	2.0	0.7	0.7	0.7	0.7
50°	7.9	3.3	0.7	0.0	0.0	0.7	0.7
52.5°	6.0	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.3	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)