

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: P162292

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

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P162292  
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  
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) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4317.4 lumens  
Efficiency: N/A  
Efficacy: 55.1 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

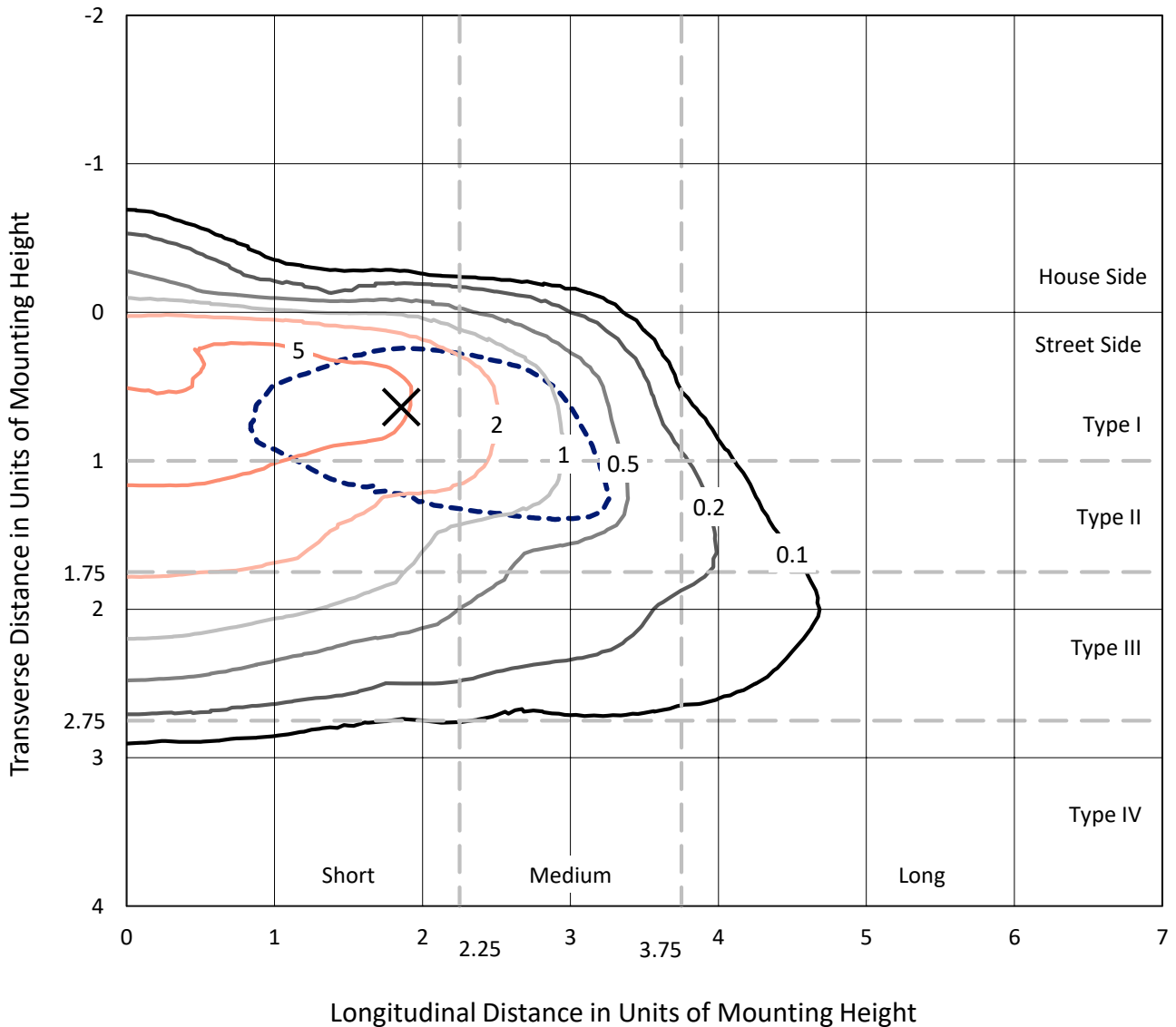
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

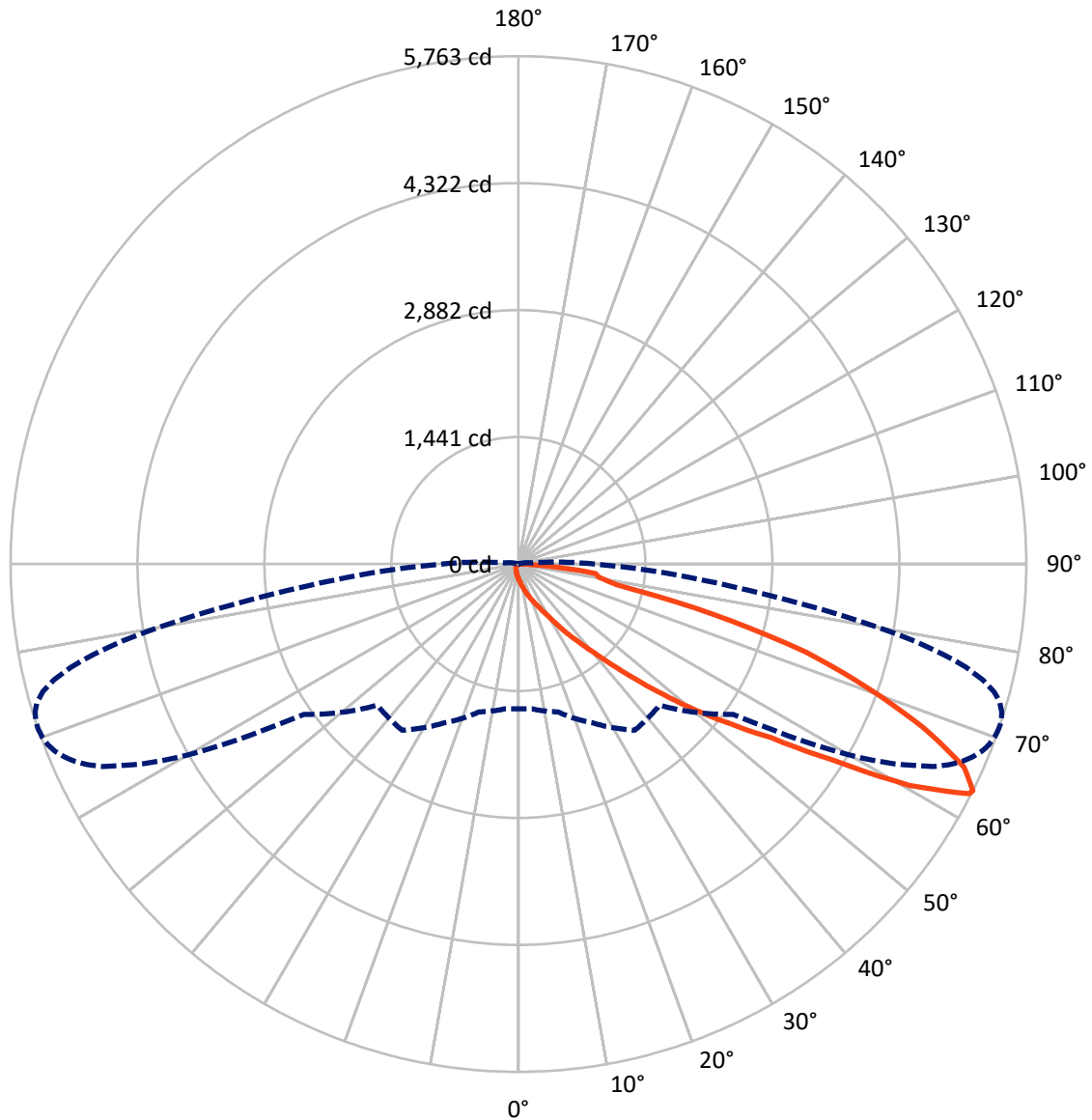
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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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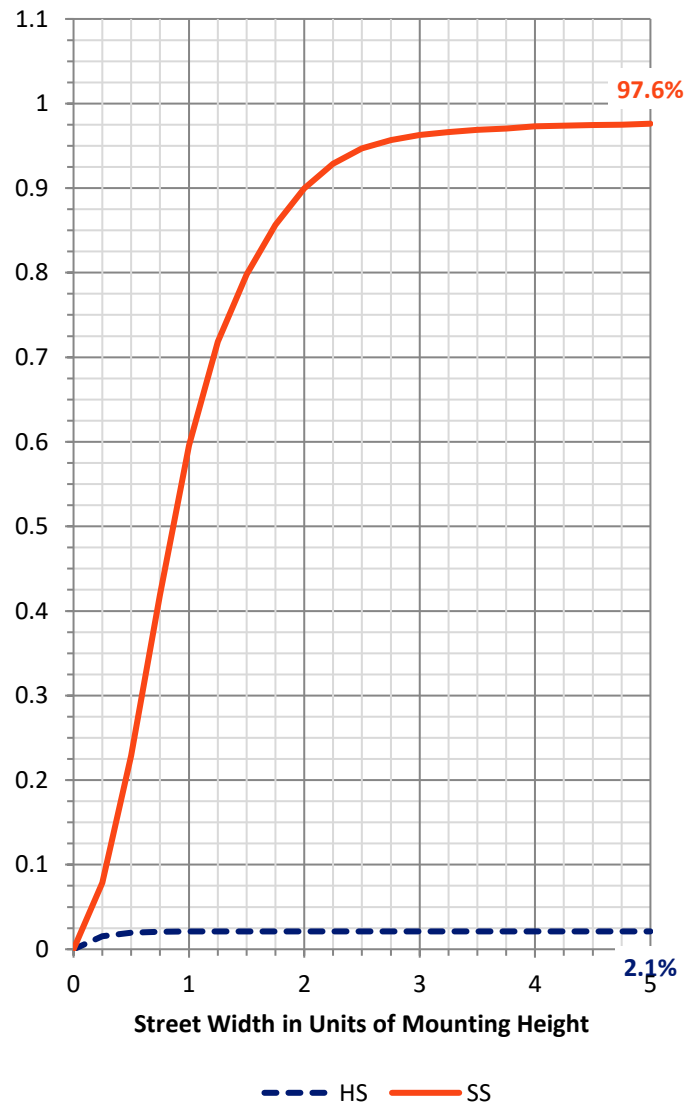
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	91.7	0.0	91.7
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4225.7	0.0	4225.7
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4317.4	0.0	4317.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.3	0.4
10°-20°	71.0	1.6
20°-30°	144.2	3.3
30°-40°	352.3	8.2
40°-50°	787.8	18.2
50°-60°	1107.8	25.7
60°-70°	1302.7	30.2
70°-80°	470.4	10.9
80°-90°	62.9	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°	4317.4	100.0
0°-180°	4317.4	100.0



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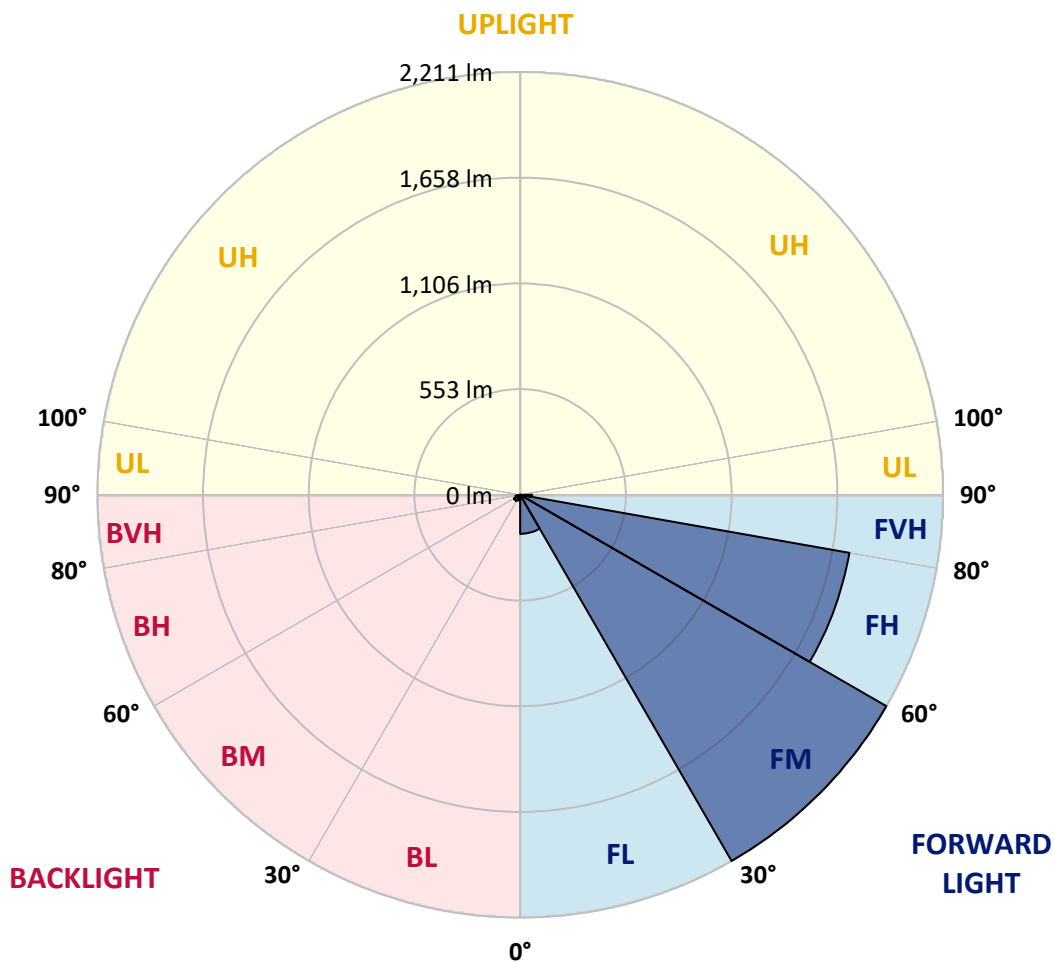
CATALOG NUMBER: ECM-F03-LED-E1-SL2-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	204.0	4.7			
FM	(30°-60°)	2211.0	51.2			
FH	(60°-80°)	1747.9	40.5			G1/1800
FVH	(80°-90°)	62.8	1.5			G1/100
BL	(0°-30°)	29.5	0.7	B0/110		
BM	(30°-60°)	36.9	0.9	B0/220		
BH	(60°-80°)	25.1	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°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6
2.5°	216.6	219.0	217.4	213.5	208.8	202.5	197.0	197.0	196.2	193.8	194.7
5°	284.1	284.9	281.8	272.3	263.8	250.4	235.4	233.9	232.3	230.0	229.2
7.5°	350.0	353.2	350.0	339.9	322.6	302.1	278.6	276.3	271.6	271.6	268.5
10°	417.6	417.6	414.4	402.6	386.9	357.9	328.1	324.2	318.7	317.1	312.4
12.5°	465.4	465.4	463.9	457.6	445.0	419.1	383.0	379.1	372.1	369.7	364.2
15°	484.3	484.3	485.1	490.5	491.4	479.5	441.9	438.8	431.7	425.4	423.1
17.5°	496.1	495.2	495.2	503.1	517.3	525.1	500.8	497.6	489.8	486.6	478.8
20°	522.0	520.4	515.6	515.6	529.0	556.5	556.5	555.7	547.1	544.7	540.8
22.5°	560.4	558.8	544.7	533.0	539.2	573.7	605.9	604.4	601.2	598.1	595.7
25°	623.2	617.7	593.4	558.8	553.3	590.3	643.6	647.5	649.9	649.9	651.4
27.5°	718.1	711.1	667.9	603.5	579.3	616.9	685.2	693.0	700.1	701.7	708.7
30°	850.0	837.5	775.5	681.3	625.6	656.1	746.4	755.0	765.3	768.4	779.4
32.5°	1066.7	1059.6	1000.0	858.6	739.3	733.1	832.0	842.9	856.3	861.8	875.1
35°	1396.3	1397.9	1349.2	1222.0	1057.2	970.9	985.0	994.4	999.1	1015.6	1022.7
37.5°	1620.0	1623.9	1634.9	1584.7	1467.0	1379.0	1268.3	1278.6	1254.2	1256.6	1257.4
40°	1742.4	1755.0	1819.4	1868.0	1858.6	1807.6	1718.9	1724.4	1678.9	1668.6	1619.2
42.5°	1824.1	1840.5	1943.4	2094.0	2171.0	2217.3	2196.9	2194.5	2159.2	2145.9	2104.3
45°	1875.1	1890.0	2019.5	2241.6	2419.0	2554.0	2609.7	2616.0	2586.2	2572.8	2538.3
47.5°	1872.7	1890.0	2028.9	2296.5	2557.9	2773.8	2930.7	2938.5	2956.6	2944.9	2947.2
50°	1769.1	1785.6	1925.3	2203.2	2517.1	2874.2	3161.5	3186.6	3215.7	3235.2	3244.6
52.5°	1643.5	1655.3	1779.3	2043.0	2342.8	2832.6	3298.1	3341.2	3384.4	3421.3	3447.1
55°	1597.2	1610.6	1707.9	1926.9	2203.2	2658.4	3361.6	3425.2	3486.4	3546.9	3596.3
57.5°	1621.6	1634.1	1704.0	1872.0	2119.9	2474.7	3379.7	3478.6	3579.1	3677.1	3774.5
60°	1711.1	1724.4	1784.0	1923.0	2098.0	2368.8	3309.0	3473.1	3640.2	3811.4	3972.3
62.5°	1675.7	1681.2	1769.1	2012.4	2254.9	2278.5	3052.4	3281.5	3536.6	3800.4	4060.2
63°	1642.0	1648.2	1737.7	1988.1	2302.8	2265.2	2973.1	3214.8	3484.0	3768.2	4050.8
65°	1488.9	1489.7	1558.0	1755.8	2249.5	2288.7	2619.9	2850.7	3159.9	3500.6	3857.7
67.5°	1111.4	1105.9	1171.8	1322.5	1766.0	2289.5	2248.6	2378.2	2593.2	2895.4	3215.7
70°	394.0	385.4	492.1	700.9	1100.4	1872.7	1932.4	1941.0	2000.7	2163.9	2364.8
72.5°	128.0	130.3	157.0	256.7	507.0	1260.5	1749.5	1722.8	1707.1	1706.4	1733.0
75°	51.0	51.8	62.8	113.8	227.6	607.5	1532.1	1547.0	1552.5	1560.3	1569.0
77.5°	24.4	26.7	35.3	63.6	113.0	300.6	1096.5	1222.9	1295.1	1350.8	1384.5
80°	8.7	10.2	19.6	39.2	52.6	138.1	577.7	697.0	802.9	939.5	1057.2
82.5°	0.0	0.0	4.0	27.5	29.1	55.7	237.0	277.9	317.9	412.0	529.0
85°	0.0	0.0	0.0	7.8	8.7	9.4	80.1	96.5	108.3	126.4	146.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	4.7	11.8	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



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**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6
2.5°	193.1	192.3	192.3	190.7	190.0	188.4	187.6	185.2	184.4	184.4	184.4
5°	228.4	225.3	223.7	219.8	217.4	216.6	212.7	211.2	208.8	209.6	205.6
7.5°	267.6	262.2	259.8	254.3	252.7	247.2	245.7	241.7	239.4	234.7	233.1
10°	310.8	303.7	299.8	291.2	288.9	284.9	280.2	275.5	271.6	266.9	264.5
12.5°	360.3	354.0	350.8	339.0	333.6	328.1	321.8	315.5	309.2	305.3	299.8
15°	418.4	408.1	405.0	394.0	384.6	377.5	368.9	361.0	356.3	348.5	343.0
17.5°	475.7	465.4	463.0	446.6	436.4	431.7	422.3	412.0	403.4	395.6	386.9
20°	533.0	525.9	519.6	503.9	492.9	485.1	472.5	462.3	455.2	444.2	433.2
22.5°	590.3	583.2	578.4	561.9	551.8	540.8	529.8	518.8	508.6	495.2	482.7
25°	649.1	644.4	642.0	627.2	617.7	607.5	596.5	584.0	571.4	556.5	543.1
27.5°	710.3	711.9	707.1	704.0	693.9	686.8	669.5	660.8	651.4	633.4	616.9
30°	788.0	792.8	791.2	793.5	787.2	782.5	769.1	758.2	747.2	729.9	711.1
32.5°	886.1	892.4	895.5	904.2	901.1	899.5	895.5	879.8	872.0	842.2	834.4
35°	1037.6	1034.5	1047.8	1054.9	1051.7	1050.2	1045.4	1036.9	1027.4	1006.2	986.6
37.5°	1234.6	1237.7	1242.5	1228.3	1218.9	1218.1	1204.0	1195.4	1182.0	1158.5	1134.9
40°	1595.7	1576.0	1554.1	1494.4	1468.5	1453.6	1412.0	1400.3	1377.5	1345.3	1320.9
42.5°	2065.0	2045.4	1979.4	1879.8	1826.4	1752.6	1718.9	1677.3	1645.1	1592.5	1564.3
45°	2531.2	2474.7	2466.8	2350.7	2284.8	2187.5	2127.0	2057.1	1984.1	1915.1	1864.9
47.5°	2924.4	2911.9	2873.4	2802.8	2741.6	2659.9	2582.2	2474.7	2399.4	2301.2	2211.0
50°	3239.2	3238.4	3224.3	3183.5	3132.5	3066.5	2998.2	2907.2	2821.6	2701.5	2605.0
52.5°	3474.6	3487.2	3491.9	3479.3	3459.8	3401.7	3367.2	3291.0	3218.8	3116.8	3012.3
55°	3647.3	3693.6	3717.2	3743.8	3738.4	3718.0	3716.3	3667.0	3634.0	3553.1	3479.3
57.5°	3860.8	3936.9	4009.9	4139.4	4144.1	4189.7	4213.2	4236.8	4243.0	4210.8	4186.6
60°	4132.4	4287.8	4425.9	4696.7	4767.3	4878.8	4951.0	5029.5	5096.2	5101.7	5100.1
62.5°	4323.9	4563.3	4786.1	5188.0	5325.4	5454.1	5550.7	5626.8	5673.1	5720.1	5742.2
63°	4329.4	4591.5	4828.6	5243.0	5387.4	5509.8	5601.7	5672.3	5721.0	5749.2	5763.3
65°	4196.7	4514.6	4797.1	5210.0	5345.8	5469.0	5516.9	5563.2	5586.7	5597.7	5556.1
67.5°	3557.0	3867.8	4197.5	4659.0	4775.2	4922.8	4962.0	4985.5	4996.5	4994.2	4958.8
70°	2659.9	2920.5	3287.1	3814.5	3968.3	4112.8	4202.3	4240.7	4253.3	4249.3	4196.7
72.5°	1857.0	2010.1	2312.2	2899.3	3108.9	3294.1	3404.8	3462.1	3473.9	3450.3	3401.7
75°	1559.6	1567.4	1635.7	1956.7	2152.9	2350.7	2475.5	2511.6	2488.0	2416.6	2292.6
77.5°	1392.3	1409.7	1409.7	1457.5	1495.9	1550.9	1562.7	1474.8	1372.8	1240.9	1134.1
80°	1167.9	1228.3	1270.7	1306.1	1309.9	1299.0	1269.9	1220.5	1142.0	1041.6	930.1
82.5°	709.5	828.8	877.5	1059.6	1149.0	1209.5	1204.8	1138.9	1079.2	974.8	879.8
85°	179.0	193.1	209.6	272.3	305.3	372.8	415.2	434.8	441.9	405.7	367.4
87.5°	17.3	11.8	19.6	14.9	21.2	15.7	21.2	19.6	24.4	25.9	28.2
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6
2.5°	182.9	182.1	181.3	180.5	179.7	179.0	177.4	177.4	175.8	175.0	174.3
5°	203.2	201.7	200.9	199.4	197.0	195.4	193.1	190.0	187.6	186.8	185.2
7.5°	229.2	225.3	223.7	221.3	218.2	213.5	210.3	208.0	204.1	201.7	197.0
10°	258.2	254.3	249.6	244.9	240.1	234.7	230.7	227.6	221.3	218.2	212.7
12.5°	295.1	288.0	282.6	276.3	270.0	263.8	259.0	249.6	244.1	237.0	232.3
15°	332.8	326.5	320.2	312.4	303.0	292.7	288.0	279.4	272.3	261.4	255.1
17.5°	378.3	366.5	357.1	347.7	339.0	329.6	320.2	306.8	296.7	287.3	274.7
20°	423.1	408.9	398.7	386.2	373.6	358.7	347.7	338.3	324.2	311.6	298.3
22.5°	471.0	456.8	440.3	427.8	410.5	398.7	383.8	368.1	354.0	337.5	321.0
25°	529.0	514.1	495.2	478.8	459.2	442.6	424.7	406.6	389.3	370.5	349.3
27.5°	600.4	584.7	564.3	544.7	518.8	498.4	481.1	456.8	434.8	411.3	386.9
30°	690.7	673.5	648.3	620.1	594.1	571.4	547.1	514.9	490.5	462.3	430.9
32.5°	808.4	788.0	754.3	727.6	695.4	665.5	631.9	599.7	565.1	528.3	492.1
35°	956.8	938.0	898.7	859.5	824.1	788.8	746.4	709.5	660.8	616.1	569.9
37.5°	1110.6	1076.8	1040.7	998.4	954.4	912.0	860.2	809.2	753.5	704.8	646.7
40°	1286.4	1245.6	1215.8	1170.3	1108.3	1047.8	1000.0	936.4	866.5	801.3	733.1
42.5°	1527.4	1481.8	1428.5	1359.4	1314.6	1244.1	1182.0	1106.7	1014.8	941.8	859.5
45°	1806.0	1744.0	1692.2	1625.5	1571.3	1483.4	1411.2	1310.8	1218.9	1123.1	1022.7
47.5°	2123.9	2047.0	1971.6	1905.6	1819.4	1733.0	1641.1	1534.4	1416.7	1311.5	1192.2
50°	2488.9	2379.7	2275.4	2190.6	2072.1	1972.4	1872.7	1752.6	1622.3	1501.5	1365.7
52.5°	2894.6	2768.2	2630.1	2499.9	2362.5	2234.5	2114.4	1976.3	1831.1	1683.6	1532.1
55°	3384.4	3289.4	3126.9	2961.3	2777.6	2606.6	2452.0	2280.8	2104.3	1910.3	1751.0
57.5°	4151.2	4104.9	3969.1	3803.5	3564.1	3356.1	3094.0	2884.4	2628.6	2361.7	2156.0
60°	5190.4	5133.1	5056.9	4922.8	4732.8	4450.2	4161.4	3835.7	3446.4	3076.7	2725.9
62.5°	5744.5	5724.1	5662.1	5569.5	5392.1	5169.2	4878.0	4520.1	4080.6	3631.6	3184.2
63°	5761.0	5735.1	5681.8	5587.6	5431.4	5215.5	4929.8	4582.1	4152.0	3694.4	3237.6
65°	5538.1	5527.9	5473.7	5370.9	5264.1	5099.4	4878.0	4578.9	4217.9	3785.4	3331.0
67.5°	4911.8	4881.2	4798.0	4766.6	4692.0	4577.4	4408.6	4203.0	3944.8	3604.9	3212.5
70°	4154.4	4108.8	4004.5	3948.7	3857.7	3785.4	3682.7	3535.9	3376.6	3139.5	2846.7
72.5°	3351.4	3257.3	3161.5	3016.3	2889.1	2760.4	2646.6	2543.0	2367.9	2272.3	2050.1
75°	2176.5	2005.4	1841.3	1621.6	1423.8	1248.8	1078.4	992.1	812.3	739.3	635.0
77.5°	1032.9	937.1	808.4	708.7	581.6	474.8	387.7	291.2	228.4	179.0	136.5
80°	833.5	752.7	675.0	584.7	489.0	390.1	299.0	223.7	158.6	109.9	77.7
82.5°	743.3	655.4	559.6	497.6	432.5	354.0	290.4	237.0	175.0	128.0	87.1
85°	288.9	243.3	187.6	153.1	119.3	98.1	88.7	61.3	47.9	37.6	29.1
87.5°	25.1	20.4	16.5	11.0	11.8	6.3	7.1	4.7	4.0	4.0	3.1
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°	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6	165.6
2.5°	173.4	172.7	171.9	170.3	170.3	168.7	168.0	167.2	163.3	154.6	147.5
5°	182.1	180.5	179.0	176.6	175.0	172.7	171.1	168.7	160.2	143.6	129.5
7.5°	194.7	191.5	189.1	184.4	182.1	179.0	176.6	172.7	158.6	133.4	113.8
10°	209.6	204.1	200.1	194.7	190.0	186.0	182.1	176.6	157.0	122.4	99.6
12.5°	227.6	221.3	213.5	207.2	200.9	195.4	190.0	182.9	154.6	113.0	88.7
15°	245.7	236.3	230.7	222.1	213.5	205.6	197.8	191.5	155.4	102.8	79.3
17.5°	266.1	256.7	244.9	235.4	226.0	215.9	206.4	193.8	151.5	94.9	72.2
20°	285.7	272.3	261.4	249.6	236.3	223.7	211.9	200.9	148.3	87.1	66.0
22.5°	306.8	291.2	277.0	262.2	245.7	231.6	217.4	203.2	142.8	80.1	60.4
25°	332.8	314.8	294.3	276.3	259.0	241.7	223.7	206.4	137.4	73.8	56.5
27.5°	364.2	340.6	320.2	297.4	273.2	251.1	231.6	212.7	131.8	69.1	52.6
30°	404.2	376.8	347.7	318.7	292.7	267.6	240.1	216.6	126.4	64.4	48.6
32.5°	457.6	423.1	387.7	354.0	319.5	287.3	258.2	227.6	123.3	60.4	44.7
35°	528.3	483.5	440.3	397.9	356.3	317.1	279.4	244.9	123.3	55.7	40.0
37.5°	595.0	543.1	488.2	435.6	386.2	340.6	295.9	254.3	117.0	51.8	36.1
40°	667.1	605.1	540.8	478.8	419.1	362.7	311.6	263.8	111.4	47.1	32.2
42.5°	777.8	699.3	615.3	543.1	471.7	401.9	338.3	281.8	104.4	42.3	28.2
45°	923.0	823.3	724.5	636.6	545.5	459.9	384.6	314.8	102.8	38.5	24.4
47.5°	1078.4	960.7	844.5	732.3	625.6	525.9	435.6	351.6	102.8	34.5	21.2
50°	1233.0	1085.5	961.5	831.2	711.1	593.4	485.8	390.1	103.6	31.4	17.3
52.5°	1372.8	1215.0	1076.1	925.3	792.8	656.1	539.2	427.8	102.0	27.5	14.1
55°	1566.6	1381.4	1220.5	1054.1	898.7	744.9	612.2	484.3	102.8	24.4	11.8
57.5°	1923.7	1706.4	1512.4	1294.3	1115.3	916.7	755.9	600.4	112.3	20.4	8.7
60°	2436.3	2153.7	1881.4	1615.3	1387.6	1151.4	942.7	759.7	131.8	16.5	6.3
62.5°	2780.8	2411.1	2086.2	1792.6	1528.1	1280.9	1053.3	845.3	145.2	13.4	4.0
63°	2816.1	2433.9	2107.4	1804.4	1534.4	1287.2	1058.0	851.6	146.0	12.5	4.0
65°	2882.8	2473.1	2119.2	1806.7	1528.1	1278.6	1054.9	850.8	147.5	10.2	3.1
67.5°	2806.7	2412.7	2050.9	1739.3	1473.2	1227.6	1015.6	819.4	146.8	7.1	2.4
70°	2510.0	2183.5	1865.7	1575.3	1333.5	1111.4	924.6	747.2	135.0	4.7	1.6
72.5°	1842.9	1620.8	1374.3	1164.7	1004.7	834.4	711.9	561.2	104.4	3.1	0.8
75°	546.2	497.6	418.4	368.9	325.8	269.2	239.4	186.8	53.4	1.6	0.0
77.5°	109.1	98.9	88.7	80.8	76.1	65.1	62.0	51.0	22.0	0.8	0.0
80°	57.3	47.1	40.0	35.3	30.6	25.1	21.2	17.3	4.0	0.0	0.0
82.5°	55.0	36.9	26.7	22.0	18.8	14.9	11.8	8.7	2.4	0.0	0.0
85°	20.4	15.7	11.8	9.4	7.8	7.1	5.5	4.7	0.0	0.0	0.0
87.5°	3.1	2.4	2.4	1.6	1.6	0.8	0.8	0.8	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



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

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	165.6	165.6	165.6	165.6	165.6	165.6	165.6
2.5°	140.5	134.2	131.1	127.1	127.1	126.4	128.0
5°	117.0	108.3	102.0	97.3	98.1	95.8	96.5
7.5°	98.9	90.2	84.8	81.6	80.8	80.1	80.1
10°	85.5	77.7	73.0	70.7	69.8	69.8	69.8
12.5°	76.1	68.3	64.4	62.8	62.8	62.0	62.0
15°	68.3	62.0	58.1	56.5	56.5	55.7	56.5
17.5°	62.0	55.7	52.6	51.0	51.0	50.2	50.2
20°	56.5	51.0	47.9	45.5	45.5	44.7	45.5
22.5°	51.8	46.3	42.3	40.8	40.0	39.2	40.0
25°	47.1	41.6	37.6	35.3	34.5	34.5	33.8
27.5°	43.2	37.6	32.9	30.6	29.8	29.8	29.1
30°	39.2	32.9	28.2	25.9	25.1	25.1	25.1
32.5°	35.3	28.2	24.4	22.0	21.2	21.2	21.2
35°	31.4	24.4	20.4	18.1	17.3	17.3	17.3
37.5°	26.7	20.4	15.7	14.1	13.4	12.5	12.5
40°	22.8	15.7	11.8	10.2	8.7	8.7	8.7
42.5°	18.8	12.5	8.7	6.3	5.5	4.7	5.5
45°	15.7	9.4	5.5	3.1	2.4	2.4	2.4
47.5°	12.5	6.3	2.4	0.8	0.8	0.8	0.8
50°	9.4	4.0	0.8	0.0	0.0	0.8	0.8
52.5°	7.1	2.4	0.0	0.0	0.0	0.0	0.0
55°	4.0	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)