

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: P141403

Luminaire Tested: **ECM-F03-LED-E1-SLL-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141403  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)  
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-SLL-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5467 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

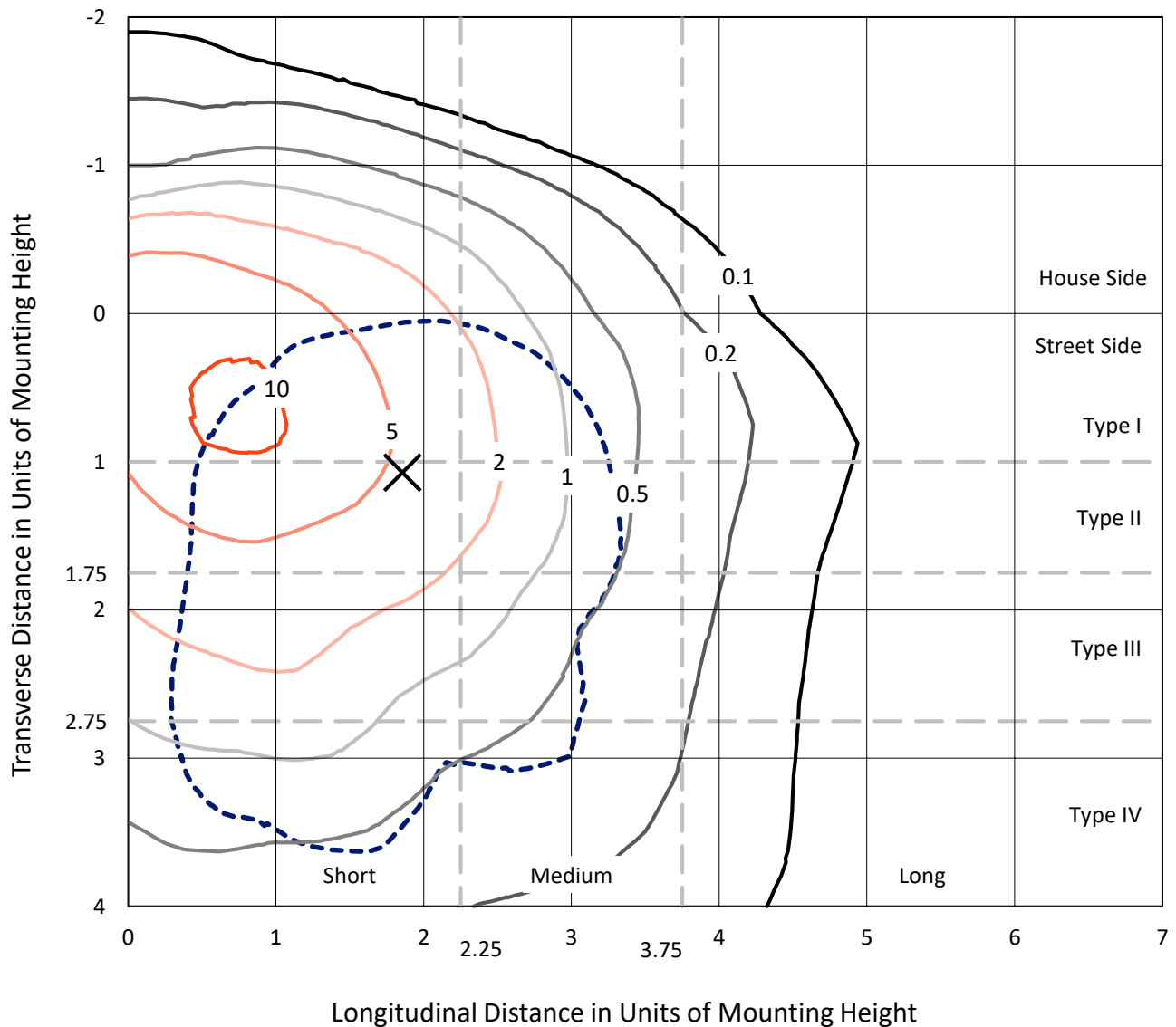
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

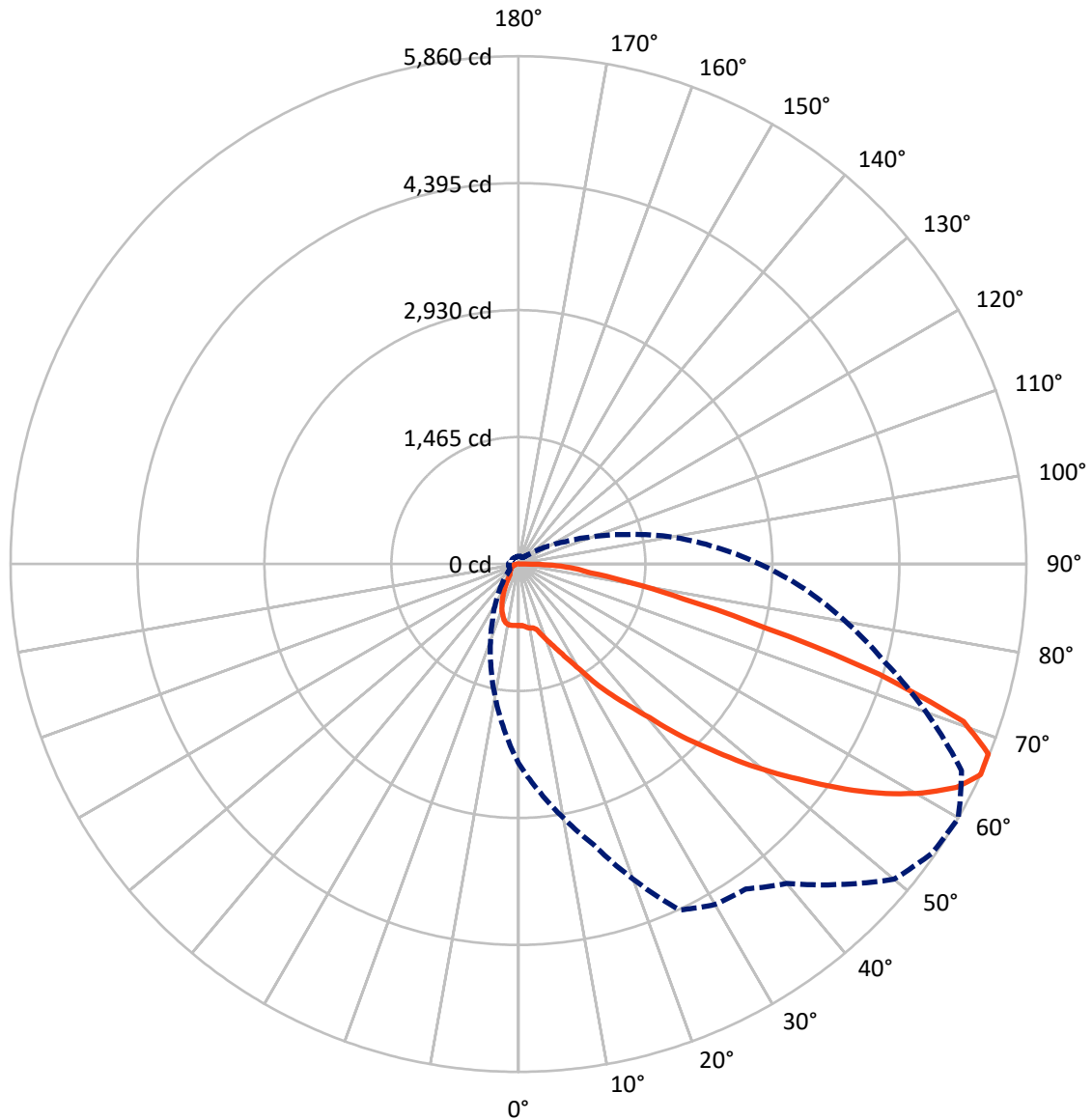
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1014.0	0.0	1014.0
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	4453.0	0.0	4453.0
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	5467.0	0.0	5467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	1.3
10°-20°	206.5	3.8
20°-30°	343.1	6.3
30°-40°	501.5	9.2
40°-50°	762.9	14.0
50°-60°	1096.6	20.1
60°-70°	1348.3	24.7
70°-80°	902.0	16.5
80°-90°	237.3	4.3
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°	5467.0	100.0
0°-180°	5467.0	100.0

**Coefficient of Utilization**



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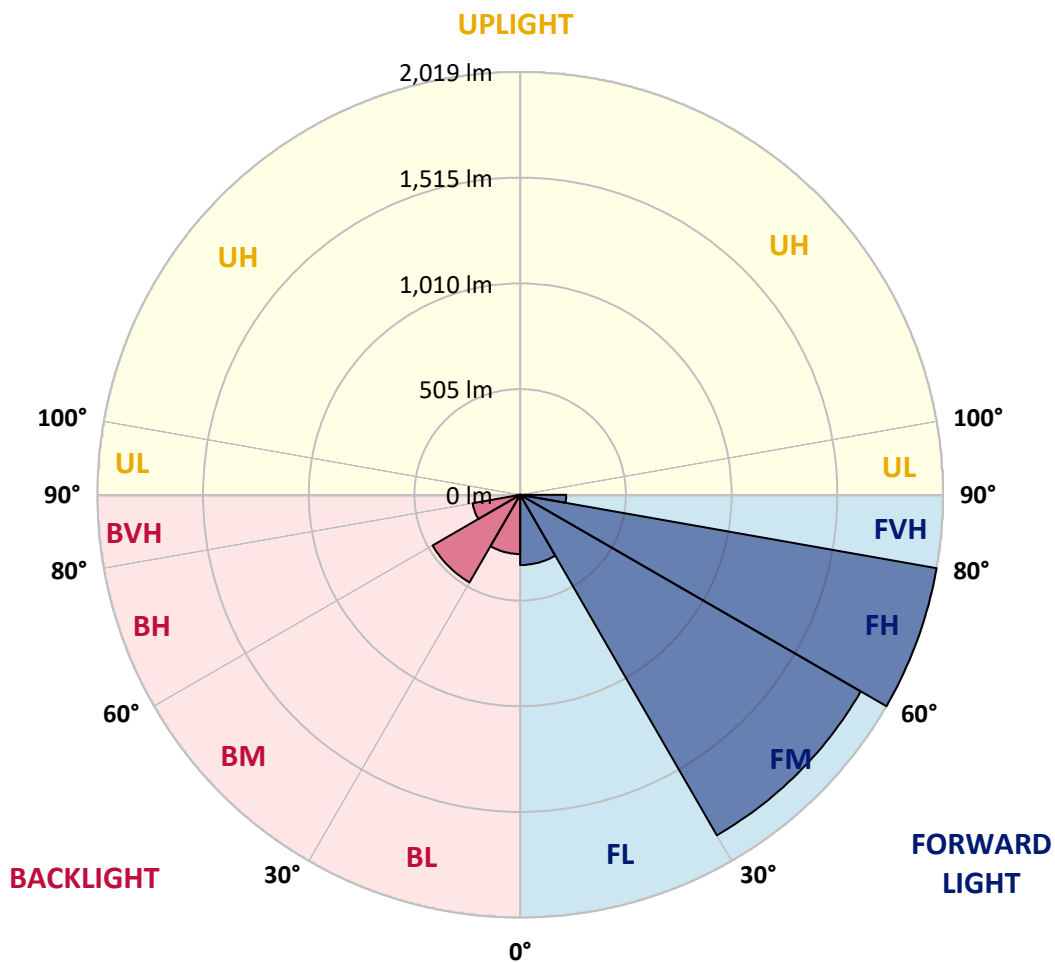
CATALOG NUMBER: ECM-F03-LED-E1-SLL-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.4	6.1			
FM	(30°-60°)	1878.1	34.4			
FH	(60°-80°)	2019.5	36.9			G2/5000
FVH	(80°-90°)	220.0	4.0			G2/225
BL	(0°-30°)	283.0	5.2	B1/500		
BM	(30°-60°)	483.0	8.8	B1/1000		
BH	(60°-80°)	230.8	4.2	B1/500		G1/500
BVH	(80°-90°)	17.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7
2.5°	711.4	712.1	712.1	711.4	710.7	711.4	710.0	711.4	710.7	710.0	710.7
5°	702.3	703.0	704.4	704.4	705.8	708.6	709.3	712.8	714.9	715.5	718.3
7.5°	680.7	684.2	686.3	689.1	693.3	700.2	705.1	713.5	719.7	725.3	733.0
10°	667.5	671.7	675.8	682.1	688.4	697.4	705.8	716.2	724.6	733.0	742.0
12.5°	671.0	675.8	681.4	686.3	696.0	704.4	714.9	727.4	731.6	739.9	747.6
15°	699.5	703.7	707.9	713.5	722.5	732.3	746.2	760.1	762.9	772.0	780.3
17.5°	737.8	738.5	745.5	755.3	763.6	779.6	796.4	815.2	827.0	832.6	837.5
20°	777.6	779.6	790.8	799.9	818.7	839.6	864.0	891.8	901.6	926.0	935.0
22.5°	836.8	836.1	849.3	861.9	882.8	905.1	940.6	978.9	1001.2	1020.0	1027.0
25°	926.7	928.7	926.7	944.8	966.4	1002.6	1038.1	1076.5	1089.7	1122.4	1137.8
27.5°	1015.8	1031.9	1053.5	1059.0	1085.5	1127.3	1155.2	1196.3	1228.3	1237.4	1262.5
30°	1098.8	1132.2	1167.7	1197.7	1245.1	1295.9	1337.7	1384.4	1386.5	1403.2	1410.2
32.5°	1183.1	1235.3	1287.6	1325.9	1371.9	1439.5	1516.8	1592.7	1642.2	1693.1	1667.3
35°	1289.0	1370.5	1443.6	1502.9	1541.9	1604.6	1693.8	1817.1	1896.5	1957.1	1992.0
37.5°	1385.8	1509.1	1621.3	1705.6	1801.1	1845.7	1904.2	1993.4	2084.6	2141.1	2170.3
40°	1456.9	1625.5	1784.3	1906.3	2027.5	2134.1	2208.0	2280.4	2403.7	2474.1	2479.7
42.5°	1512.6	1727.2	1918.8	2093.7	2272.1	2421.2	2510.3	2602.3	2759.1	2840.6	2834.3
45°	1550.9	1803.2	2040.7	2256.0	2472.0	2666.4	2838.5	2975.1	3135.3	3290.7	3259.3
47.5°	1584.4	1865.9	2137.6	2380.7	2639.9	2882.4	3097.0	3289.3	3501.1	3710.8	3723.4
50°	1617.8	1916.7	2225.4	2505.5	2797.4	3101.9	3361.1	3608.4	3873.2	4140.0	4201.3
52.5°	1663.8	1973.9	2306.9	2619.0	2958.3	3279.5	3568.7	3876.6	4204.1	4461.9	4636.1
55°	1732.8	2053.3	2407.9	2732.6	3102.6	3456.5	3776.3	4131.6	4432.6	4751.0	4999.1
57.5°	1845.7	2159.2	2525.0	2856.6	3241.9	3616.8	3949.1	4321.9	4608.9	4962.2	5273.6
60°	1988.5	2303.4	2657.3	3003.6	3405.6	3841.8	4176.9	4452.8	4740.6	5098.0	5472.9
62.5°	2150.8	2466.4	2819.0	3176.4	3633.5	4105.9	4393.6	4551.1	4801.9	5191.4	5601.8
65°	2293.7	2619.0	2970.9	3349.9	3866.9	4404.1	4536.4	4576.2	4811.0	5229.0	5657.5
67.5°	2410.7	2784.9	3113.0	3490.6	4112.8	4593.6	4539.2	4459.8	4687.6	5137.7	5550.9
70°	2472.0	2858.7	3180.6	3503.2	4165.1	4620.1	4429.8	4213.9	4317.7	4758.0	5103.6
72.5°	2404.4	2800.9	3055.2	3255.8	3852.3	4294.0	4051.5	3643.9	3738.7	4165.1	4254.3
75°	2139.7	2618.3	2766.7	2759.8	3081.0	3309.5	3133.9	2874.0	3115.8	3293.5	3202.2
77.5°	1597.6	2144.6	2227.5	2074.9	2143.2	2335.5	2169.6	2371.7	2665.0	2745.1	2572.3
80°	1004.7	1571.8	1580.9	1390.7	1354.5	1429.7	1643.6	2073.5	2353.6	2336.9	2108.3
82.5°	559.5	1019.3	1116.2	942.0	897.4	1082.0	1463.8	1692.4	1655.4	1641.5	1344.0
85°	382.5	696.0	850.7	815.9	902.3	1079.2	1200.5	1073.0	1033.3	880.0	714.2
87.5°	155.4	313.5	527.4	606.2	643.1	789.4	691.2	563.0	433.4	411.1	353.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7
2.5°	708.6	710.0	710.0	710.7	711.4	712.1	712.1	712.1	712.8	713.5	712.8
5°	719.0	721.1	722.5	722.5	723.9	725.3	726.7	726.0	728.1	729.5	730.2
7.5°	735.8	739.9	743.4	746.2	747.6	747.6	747.6	745.5	747.6	748.3	749.0
10°	747.6	752.5	753.2	756.0	755.3	754.6	753.2	751.8	752.5	753.9	756.0
12.5°	751.1	756.0	757.4	759.4	758.7	758.0	755.3	755.3	754.6	756.7	758.7
15°	779.6	783.8	790.8	784.5	785.2	779.6	774.8	772.0	770.6	772.0	773.4
17.5°	845.1	852.1	849.3	839.6	838.9	827.0	824.9	811.0	811.0	811.0	806.8
20°	935.0	934.3	929.4	919.7	898.8	894.6	879.3	868.1	857.7	855.6	850.7
22.5°	1033.3	1022.8	1020.0	999.8	986.6	961.5	938.5	930.1	920.4	918.3	917.6
25°	1128.7	1132.9	1112.7	1102.9	1069.5	1047.2	1034.0	1013.1	1013.1	1010.3	1006.8
27.5°	1248.6	1262.5	1240.2	1226.3	1194.9	1163.5	1140.6	1128.0	1114.8	1105.7	1080.6
30°	1417.9	1426.9	1411.6	1383.0	1344.0	1288.3	1256.9	1243.0	1218.6	1187.9	1146.8
32.5°	1656.1	1643.6	1591.3	1541.2	1490.3	1437.4	1399.7	1374.7	1337.0	1275.7	1197.7
35°	1964.8	1856.8	1791.3	1722.3	1663.8	1604.6	1576.0	1530.7	1445.0	1345.4	1240.9
37.5°	2116.7	2068.6	1993.4	1941.8	1872.1	1812.9	1748.1	1670.8	1560.0	1417.2	1272.2
40°	2421.2	2330.6	2272.1	2213.5	2127.8	2047.0	1959.2	1834.5	1656.1	1478.5	1296.6
42.5°	2741.0	2674.1	2568.2	2490.1	2426.0	2292.3	2152.9	1978.7	1754.4	1534.2	1318.9
45°	3157.6	3004.3	2873.3	2807.1	2681.0	2518.0	2355.7	2106.9	1845.0	1592.7	1344.0
47.5°	3576.3	3379.2	3244.0	3120.7	2986.2	2767.4	2514.5	2218.4	1914.6	1641.5	1364.9
50°	4025.7	3765.9	3609.8	3462.1	3240.5	2975.8	2653.9	2310.4	1987.1	1687.5	1383.7
52.5°	4482.8	4154.6	3931.7	3759.6	3485.1	3157.6	2780.0	2405.8	2064.4	1732.1	1399.0
55°	4893.9	4585.9	4298.2	4032.7	3702.5	3322.0	2895.6	2491.5	2134.1	1778.8	1408.8
57.5°	5266.6	4998.4	4654.9	4298.9	3902.4	3474.6	3002.2	2584.2	2199.6	1812.9	1408.1
60°	5522.3	5365.6	5008.8	4574.8	4111.4	3614.7	3130.4	2687.3	2257.4	1837.3	1402.5
62.5°	5706.3	5674.9	5363.5	4840.2	4282.1	3740.8	3254.5	2773.0	2299.2	1840.1	1378.8
65°	5821.2	5859.5	5640.8	5008.8	4377.6	3836.9	3315.8	2780.7	2269.3	1794.1	1316.1
67.5°	5748.8	5847.7	5639.4	4935.7	4286.3	3747.0	3225.9	2652.5	2109.7	1651.3	1175.4
70°	5299.4	5447.8	5242.2	4450.7	3839.7	3400.1	2894.9	2278.3	1815.0	1360.0	928.7
72.5°	4156.7	4352.5	4172.7	3630.0	3178.5	2810.6	2435.8	1789.2	1383.7	999.1	624.3
75°	2867.8	2943.0	2835.7	2460.9	2322.2	2178.7	1828.2	1202.6	914.1	616.6	367.2
77.5°	2224.7	1952.3	1746.7	1593.4	1590.6	1564.2	1196.3	719.7	546.9	339.3	204.1
80°	1672.9	1313.3	1084.1	948.3	985.9	1102.2	697.4	369.3	282.9	187.4	125.4
82.5°	1100.8	838.2	668.9	592.2	598.5	691.2	350.5	203.4	139.3	106.6	81.5
85°	671.0	651.4	581.1	527.4	486.3	475.2	272.4	156.1	77.3	55.0	41.8
87.5°	327.5	388.1	473.8	480.1	412.5	349.8	141.4	44.6	32.7	17.4	12.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7
2.5°	713.5	716.9	715.5	714.9	714.9	718.3	718.3	716.9	716.9	717.6	717.6
5°	730.2	733.7	732.3	733.0	734.4	735.1	737.1	735.1	733.7	735.1	734.4
7.5°	749.7	753.2	752.5	753.9	755.3	756.7	758.0	757.4	756.0	756.0	755.3
10°	758.0	765.0	767.8	770.6	774.1	775.5	777.6	777.6	774.8	774.8	771.3
12.5°	763.6	769.2	776.2	780.3	786.6	791.5	793.6	794.3	792.2	789.4	785.9
15°	775.5	779.6	786.6	790.8	798.5	804.7	808.9	808.2	805.4	797.8	787.3
17.5°	804.7	804.0	806.8	809.6	811.7	815.2	813.8	807.5	794.3	780.3	765.7
20°	848.6	847.9	843.7	837.5	829.8	820.1	804.7	785.9	763.6	738.5	716.2
22.5°	910.6	904.4	898.8	882.1	855.6	822.8	783.1	746.2	719.7	695.3	671.0
25°	992.8	977.5	950.3	911.3	869.5	820.8	762.9	713.5	680.0	651.4	627.1
27.5°	1044.4	1008.9	963.6	909.9	854.2	791.5	727.4	678.6	641.0	609.6	581.8
30°	1088.3	1024.2	960.8	892.5	822.1	757.4	689.8	637.5	593.6	558.8	525.3
32.5°	1112.7	1027.0	947.6	866.0	789.4	715.5	642.4	586.0	544.2	501.0	455.0
35°	1128.0	1018.6	922.5	830.5	746.2	669.6	592.9	530.9	475.9	422.9	376.9
37.5°	1132.2	1004.7	889.7	790.8	694.6	611.0	538.6	466.1	411.1	353.9	301.0
40°	1130.1	978.2	848.6	728.8	627.8	546.9	476.6	410.4	349.8	298.9	248.0
42.5°	1121.7	948.3	799.9	677.9	576.2	498.9	434.1	367.2	312.8	258.5	215.3
45°	1119.0	919.0	762.9	638.9	541.4	465.4	402.0	337.2	280.1	228.5	185.3
47.5°	1112.7	892.5	728.8	608.9	512.8	439.6	374.1	310.7	251.5	204.8	163.0
50°	1098.8	864.0	703.7	586.0	489.1	413.9	347.0	278.7	220.9	174.9	142.8
52.5°	1084.1	845.8	687.7	563.0	464.0	383.2	317.0	248.0	193.7	150.5	126.1
55°	1069.5	831.9	666.1	535.8	431.3	351.9	285.0	221.6	170.7	133.8	116.4
57.5°	1053.5	813.1	639.6	501.0	394.4	317.0	250.1	190.2	148.4	120.5	108.7
60°	1040.2	786.6	593.6	452.2	344.9	268.2	207.6	158.9	126.1	108.7	103.8
62.5°	1005.4	735.8	527.4	380.4	280.1	209.7	158.2	124.0	105.9	97.5	98.2
65°	921.1	622.2	418.7	296.8	196.5	140.7	112.9	94.8	86.4	86.4	88.5
67.5°	776.2	473.8	296.8	188.8	128.9	101.7	86.4	78.7	77.3	78.7	82.2
70°	549.7	307.3	186.0	123.3	96.8	82.2	74.6	71.8	70.4	71.8	73.2
72.5°	338.6	181.2	118.4	96.1	82.9	73.9	69.0	66.9	66.2	66.2	65.5
75°	184.6	121.2	94.8	83.6	75.2	68.3	63.4	59.9	59.2	59.9	58.5
77.5°	117.7	94.8	84.3	77.3	69.7	60.6	56.4	53.6	53.6	53.0	51.6
80°	92.0	84.3	77.3	70.4	58.5	51.6	47.4	46.7	46.0	45.3	45.3
82.5°	69.0	66.9	63.4	57.1	46.7	41.1	39.0	39.0	38.3	36.2	36.2
85°	39.7	39.0	41.8	36.9	31.4	27.2	27.2	27.9	28.6	27.9	25.8
87.5°	13.2	11.1	11.8	11.8	9.8	7.7	10.5	12.5	11.8	10.5	12.5
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-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7
2.5°	715.5	716.9	719.7	716.9	715.5	715.5	714.2	714.9	712.8	710.7	711.4
5°	733.0	731.6	733.0	730.9	726.7	726.0	723.2	723.2	720.4	717.6	716.2
7.5°	752.5	750.4	751.1	746.9	742.0	738.5	735.1	733.7	730.2	726.0	723.2
10°	767.8	765.7	764.3	759.4	753.2	749.7	744.8	742.0	738.5	733.0	730.2
12.5°	777.6	772.7	769.9	761.5	756.0	752.5	746.9	745.5	741.3	736.4	734.4
15°	775.5	764.3	756.0	746.2	738.5	733.7	728.8	727.4	725.3	723.2	719.0
17.5°	741.3	727.4	718.3	698.1	687.0	682.1	681.4	680.7	679.3	679.3	674.4
20°	693.9	677.9	664.0	644.5	629.8	625.0	611.7	608.3	604.1	608.3	604.1
22.5°	651.4	631.2	615.2	599.2	581.8	567.8	550.4	542.1	530.2	527.4	528.8
25°	606.2	581.1	560.9	542.1	523.2	503.7	487.7	475.9	468.2	457.8	448.0
27.5°	551.1	530.2	503.0	487.7	465.4	443.8	427.1	414.6	400.6	392.3	378.3
30°	495.4	463.3	436.2	414.6	390.2	379.7	363.7	350.5	337.9	328.9	317.0
32.5°	422.9	389.5	360.9	335.8	319.1	304.5	294.7	283.6	277.3	269.6	262.0
35°	346.3	304.5	270.3	259.2	240.4	241.1	236.2	230.6	225.7	218.8	218.1
37.5°	261.3	228.5	206.2	192.3	189.5	185.3	186.0	185.3	183.9	181.8	181.8
40°	206.9	177.7	163.0	160.2	160.2	159.6	158.9	158.9	158.9	157.5	156.8
42.5°	177.0	156.1	151.2	149.8	148.4	147.7	146.3	144.2	144.2	142.8	140.7
45°	156.1	144.2	142.8	141.4	141.4	139.3	137.3	135.9	135.2	134.5	133.1
47.5°	142.8	136.6	135.2	133.8	133.1	131.7	129.6	127.5	126.8	126.1	126.1
50°	128.2	124.0	124.0	124.0	121.9	120.5	118.4	117.1	117.1	116.4	115.7
52.5°	117.7	115.7	115.0	114.3	112.9	110.8	109.4	108.7	108.0	108.7	108.0
55°	112.9	111.5	110.8	109.4	108.0	105.9	104.5	102.4	101.7	103.1	103.1
57.5°	107.3	106.6	105.9	104.5	103.1	100.3	98.2	96.8	96.8	98.9	98.2
60°	105.2	104.5	103.8	103.1	101.0	97.5	94.1	92.7	92.7	94.8	94.8
62.5°	100.3	99.6	98.9	98.2	95.5	92.7	89.2	87.8	88.5	89.9	92.0
65°	91.3	92.0	91.3	91.3	89.2	87.1	85.0	83.6	82.9	83.6	85.7
67.5°	82.9	83.6	83.6	83.6	82.9	80.8	79.4	77.3	75.9	76.6	77.3
70°	75.2	75.9	76.6	76.6	75.2	73.2	71.1	69.0	68.3	69.0	69.0
72.5°	66.9	66.9	66.9	67.6	66.9	66.2	63.4	60.6	60.6	59.9	60.6
75°	58.5	58.5	58.5	58.5	57.1	57.1	55.7	53.0	52.3	53.0	53.6
77.5°	51.6	50.2	49.5	49.5	49.5	48.1	47.4	47.4	46.7	46.7	46.7
80°	42.5	41.1	39.7	39.0	39.7	39.7	41.1	41.1	40.4	40.4	40.4
82.5°	33.4	30.7	30.0	30.0	28.6	30.0	32.7	36.2	34.8	35.5	35.5
85°	24.4	21.6	20.2	20.2	18.8	21.6	25.1	27.9	26.5	27.9	27.2
87.5°	11.1	10.5	8.4	7.0	8.4	12.5	14.6	15.3	13.2	16.0	16.0
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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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7
2.5°	714.2	711.4	710.7	711.4	710.0	712.1	712.1	711.4	711.4	710.7	712.1
5°	718.3	714.9	712.8	712.8	711.4	713.5	712.1	711.4	710.7	710.7	710.7
7.5°	724.6	719.7	716.2	714.2	711.4	711.4	709.3	707.2	705.8	705.1	705.1
10°	730.2	723.2	717.6	712.8	708.6	705.1	701.6	696.7	695.3	693.9	694.6
12.5°	729.5	721.8	713.5	705.8	696.0	691.9	682.8	677.2	677.2	673.7	675.8
15°	714.2	700.9	689.1	676.5	664.7	656.3	645.2	638.9	635.4	634.7	639.6
17.5°	668.2	655.6	644.5	630.5	615.2	609.6	602.0	599.2	597.1	600.6	604.1
20°	606.2	590.1	579.7	571.3	571.3	569.9	566.4	561.6	557.4	556.7	560.9
22.5°	518.4	512.1	514.2	508.6	508.6	505.8	511.4	502.3	507.2	503.0	505.1
25°	445.2	442.4	441.0	440.3	440.3	445.2	444.5	445.9	441.0	443.8	443.1
27.5°	379.0	375.5	370.7	373.5	376.2	379.7	381.1	381.8	386.0	378.3	381.1
30°	315.6	310.0	313.5	310.7	312.1	311.4	311.4	311.4	314.2	319.8	315.6
32.5°	258.5	255.7	259.2	254.3	255.0	255.0	253.6	251.5	252.9	246.6	251.5
35°	213.9	210.4	213.2	211.1	209.0	203.4	201.4	197.9	198.6	197.2	196.5
37.5°	179.1	178.4	176.3	176.3	174.9	174.2	170.7	171.4	172.1	173.5	173.5
40°	154.7	154.0	153.3	154.7	155.4	156.1	157.5	158.9	160.9	163.0	165.1
42.5°	140.7	140.7	140.7	143.5	145.6	149.1	151.2	154.0	156.8	160.2	163.0
45°	132.4	131.7	133.1	135.2	138.7	142.1	145.6	149.8	154.0	157.5	159.6
47.5°	125.4	124.7	126.1	128.2	131.7	137.3	142.1	147.0	151.9	155.4	156.8
50°	116.4	116.4	117.1	119.1	122.6	127.5	132.4	138.0	142.8	145.6	147.0
52.5°	109.4	110.1	110.1	112.2	115.7	119.8	124.7	129.6	133.1	135.2	138.0
55°	102.4	103.8	103.8	105.9	109.4	114.3	120.5	124.7	128.9	131.7	133.8
57.5°	97.5	98.2	98.2	101.0	105.2	109.4	115.7	121.2	126.1	129.6	132.4
60°	93.4	94.1	93.4	96.8	100.3	105.2	110.8	117.1	124.0	128.9	131.0
62.5°	89.9	89.9	89.2	92.0	94.1	96.8	101.7	108.7	115.0	119.1	121.2
65°	85.7	85.7	84.3	87.1	87.1	91.3	94.8	101.0	105.9	110.8	112.2
67.5°	77.3	78.7	78.0	80.1	82.9	85.7	89.9	94.8	99.6	103.1	105.2
70°	69.0	69.7	71.8	73.2	75.9	77.3	80.8	84.3	89.2	91.3	93.4
72.5°	61.3	62.0	63.4	64.8	67.6	69.0	71.8	74.6	78.7	80.8	82.9
75°	53.6	54.3	55.0	56.4	57.8	59.2	60.6	63.4	66.2	69.0	71.1
77.5°	46.0	46.7	48.8	48.1	49.5	50.2	52.3	53.6	55.0	57.8	60.6
80°	40.4	39.7	41.1	41.8	43.2	43.2	44.6	44.6	46.7	46.7	47.4
82.5°	34.1	33.4	34.8	36.9	37.6	37.6	39.0	36.2	35.5	36.2	38.3
85°	25.8	26.5	27.2	30.0	30.7	30.7	32.0	30.0	27.2	27.2	28.6
87.5°	14.6	11.1	16.0	18.8	18.8	19.5	20.9	20.2	19.5	15.3	16.0
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	710.7	0°
2.5°	711.4	712.1	712.8	713.5	714.2	713.5	714.9	713.5	714.2	712.8	712.1	2.5°
5°	710.7	711.4	711.4	712.8	713.5	711.4	712.8	710.7	710.7	709.3	707.2	5°
7.5°	705.8	707.2	707.2	708.6	708.6	706.5	706.5	702.3	700.9	696.0	692.6	7.5°
10°	696.0	698.1	699.5	702.3	703.7	700.2	698.1	693.3	687.7	682.1	676.5	10°
12.5°	679.3	680.0	684.9	689.1	691.2	693.3	691.9	691.2	685.6	682.1	680.0	12.5°
15°	641.0	646.6	651.4	661.2	668.2	675.8	681.4	687.7	690.5	693.9	695.3	15°
17.5°	607.6	613.8	617.3	625.7	632.6	644.5	659.1	675.1	686.3	700.2	713.5	17.5°
20°	560.9	571.3	574.1	587.3	596.4	611.7	627.8	648.0	670.3	691.9	715.5	20°
22.5°	508.6	513.5	519.1	533.0	544.2	563.7	588.0	615.9	641.7	671.7	705.8	22.5°
25°	445.2	451.5	457.1	472.4	488.4	506.5	535.8	569.9	602.7	642.4	687.0	25°
27.5°	382.5	387.4	397.1	408.3	426.4	445.9	482.1	519.8	557.4	605.5	658.4	27.5°
30°	317.0	321.9	326.8	340.0	358.8	381.8	414.6	459.1	503.7	555.3	618.0	30°
32.5°	254.3	255.7	265.5	275.2	291.2	310.7	346.3	389.5	437.5	500.3	562.3	32.5°
35°	198.6	206.9	211.1	224.3	234.1	254.3	284.3	324.0	374.1	437.5	504.4	35°
37.5°	176.3	179.1	184.6	194.4	207.6	225.7	246.6	277.3	320.5	374.1	436.9	37.5°
40°	167.9	170.7	174.9	182.5	195.1	211.8	229.2	253.6	287.1	329.6	386.0	40°
42.5°	165.1	165.8	167.2	174.2	186.7	205.5	226.4	249.4	275.2	309.4	353.9	42.5°
45°	161.6	161.6	162.3	167.2	178.4	197.9	224.3	253.6	282.9	313.5	351.2	45°
47.5°	158.9	159.6	158.9	160.9	169.3	188.1	217.4	252.9	291.9	331.6	372.8	47.5°
50°	147.7	147.7	148.4	149.1	155.4	173.5	202.1	241.1	289.1	342.8	399.2	50°
52.5°	138.7	140.0	140.0	141.4	145.6	160.2	188.8	229.9	282.2	344.9	420.8	52.5°
55°	135.9	137.3	138.0	138.0	140.7	153.3	180.5	219.5	274.5	342.8	429.2	55°
57.5°	133.8	135.2	135.9	135.2	137.3	147.7	172.8	211.1	266.2	337.9	432.7	57.5°
60°	131.7	132.4	131.0	129.6	130.3	139.3	161.6	199.3	256.4	330.9	431.3	60°
62.5°	121.9	122.6	121.2	119.8	118.4	125.4	145.6	182.5	236.2	314.9	420.1	62.5°
65°	113.6	113.6	113.6	112.2	110.8	115.0	129.6	160.9	207.6	286.4	394.4	65°
67.5°	106.6	105.9	105.9	105.2	103.8	105.2	114.3	135.9	172.1	241.1	347.7	67.5°
70°	95.5	94.8	95.5	94.8	93.4	93.4	97.5	109.4	133.8	177.0	270.3	70°
72.5°	84.3	85.0	86.4	86.4	86.4	87.1	87.1	90.6	103.8	126.8	183.9	72.5°
75°	72.5	73.2	75.2	78.0	76.6	77.3	77.3	79.4	86.4	100.3	128.9	75°
77.5°	61.3	63.4	66.2	66.9	64.8	64.8	66.2	69.7	75.9	84.3	98.2	77.5°
80°	50.2	53.0	53.6	55.0	55.7	55.7	57.1	59.9	66.2	76.6	87.8	80°
82.5°	39.7	41.8	43.9	46.0	47.4	49.5	50.2	51.6	57.8	68.3	80.8	82.5°
85°	30.0	32.0	34.8	36.9	38.3	40.4	39.7	40.4	43.9	52.3	61.3	85°
87.5°	18.1	18.1	20.2	20.9	21.6	21.6	23.0	20.2	21.6	27.9	33.4	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
710.7	710.7	710.7	710.7	710.7	710.7	710.7
712.8	712.1	711.4	712.1	713.5	713.5	711.4
707.9	705.8	704.4	704.4	704.4	703.7	702.3
691.2	687.7	685.6	684.2	683.5	683.5	680.7
673.0	671.0	666.8	665.4	666.1	668.2	667.5
677.2	671.0	668.9	668.9	668.2	671.7	671.0
700.2	700.2	697.4	696.7	695.3	699.5	699.5
724.6	730.9	733.7	730.9	731.6	732.3	737.8
737.8	756.0	765.7	773.4	774.1	778.3	777.6
739.9	772.7	798.5	815.2	830.5	838.2	836.8
729.5	774.8	820.1	862.6	894.6	912.0	926.7
715.5	769.2	827.7	887.6	939.9	986.6	1015.8
682.8	751.1	826.3	903.0	977.5	1044.4	1098.8
636.8	715.5	805.4	906.5	1011.0	1103.6	1183.1
575.5	659.8	769.2	893.2	1031.2	1169.1	1289.0
509.3	602.0	721.8	870.9	1041.6	1221.4	1385.8
451.5	542.8	673.7	842.4	1040.2	1255.5	1456.9
413.9	499.6	631.9	815.2	1033.3	1275.0	1512.6
401.3	478.7	604.1	793.6	1029.1	1289.0	1550.9
418.0	484.9	597.8	783.8	1027.7	1305.0	1584.4
457.1	519.8	621.5	799.9	1040.2	1321.0	1617.8
494.0	568.5	673.0	845.8	1086.9	1367.7	1663.8
523.9	621.5	728.8	906.5	1153.8	1440.2	1732.8
540.7	662.6	801.2	990.8	1245.1	1546.8	1845.7
547.6	691.2	863.3	1079.2	1360.0	1668.7	1988.5
544.8	704.4	907.8	1160.1	1463.8	1802.5	2150.8
527.4	704.4	935.7	1224.9	1550.9	1909.1	2293.7
485.6	680.0	938.5	1262.5	1617.8	1998.9	2410.7
409.0	609.6	891.8	1258.3	1638.7	2027.5	2472.0
286.4	455.0	744.1	1137.1	1549.5	1959.9	2404.4
177.7	283.6	533.0	879.3	1289.7	1663.1	2139.7
124.7	172.1	305.2	556.7	887.6	1239.5	1597.6
103.8	126.8	174.2	306.6	533.7	763.6	1004.7
89.9	102.4	121.2	174.9	271.7	406.9	559.5
66.9	74.6	83.6	115.0	171.4	251.5	382.5
27.2	30.7	34.1	46.0	105.2	144.9	155.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)