

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: P141398

Luminaire Tested: **ECM-E03-LED-E1-SLL-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141398  
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-E03-LED-E1-SLL-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6622.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 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 - G3

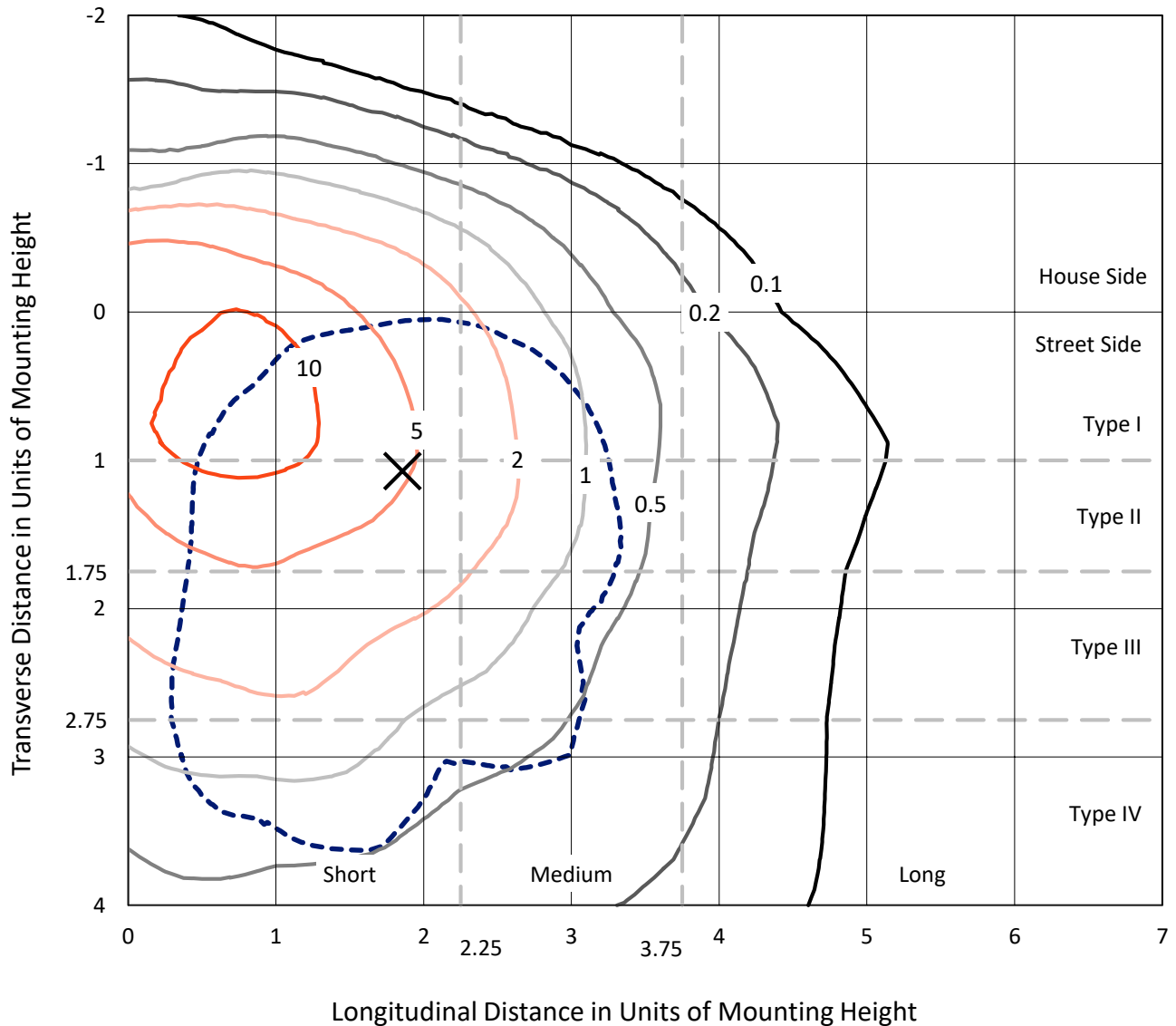
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

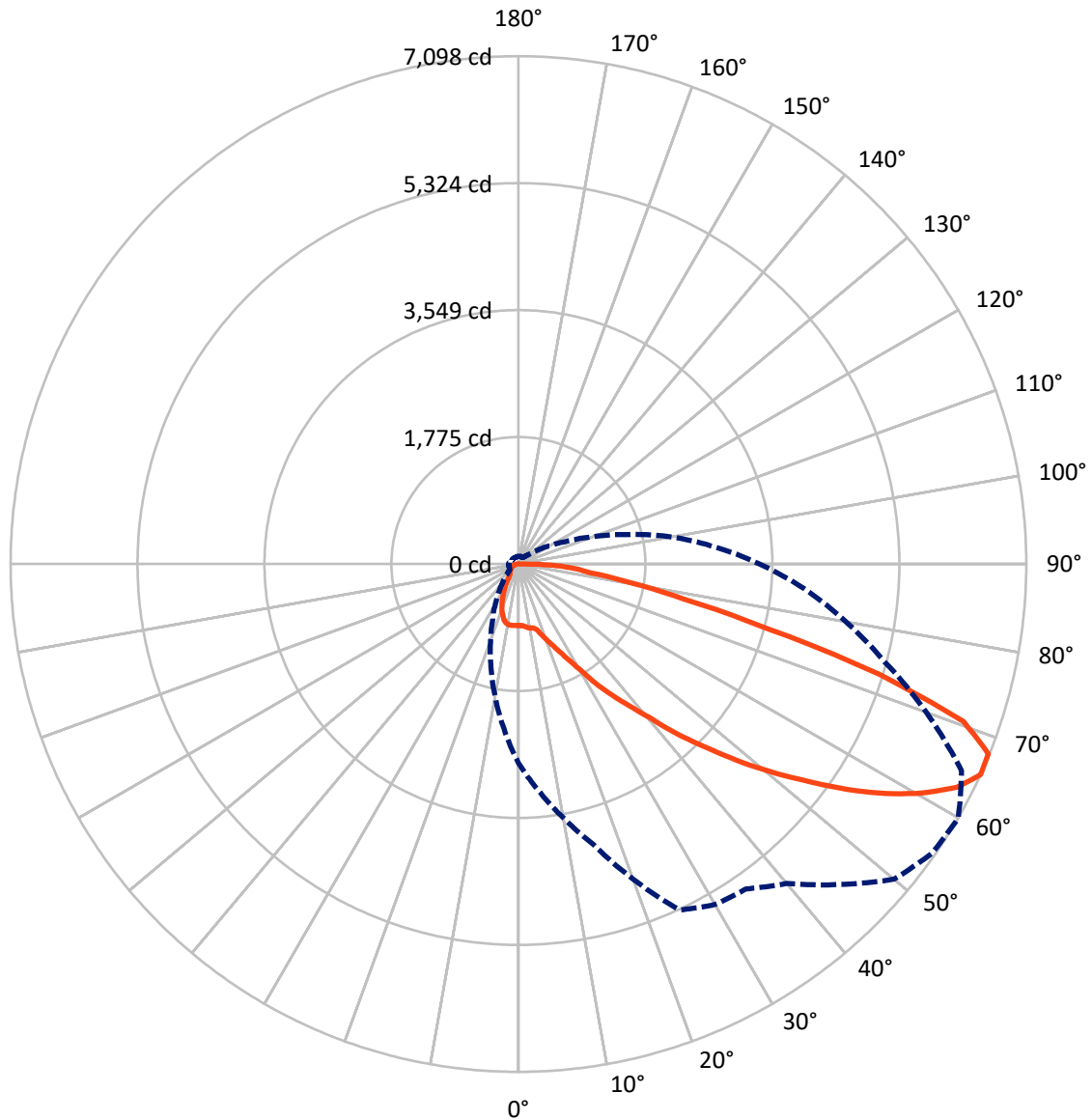
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 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	1228.3	0.0	1228.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	5394.1	0.0	5394.1
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	6622.4	0.0	6622.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.3
10°-20°	250.1	3.8
20°-30°	415.6	6.3
30°-40°	607.5	9.2
40°-50°	924.2	14.0
50°-60°	1328.4	20.1
60°-70°	1633.3	24.7
70°-80°	1092.6	16.5
80°-90°	287.4	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°	6622.4	100.0
0°-180°	6622.4	100.0

**Coefficient of Utilization**



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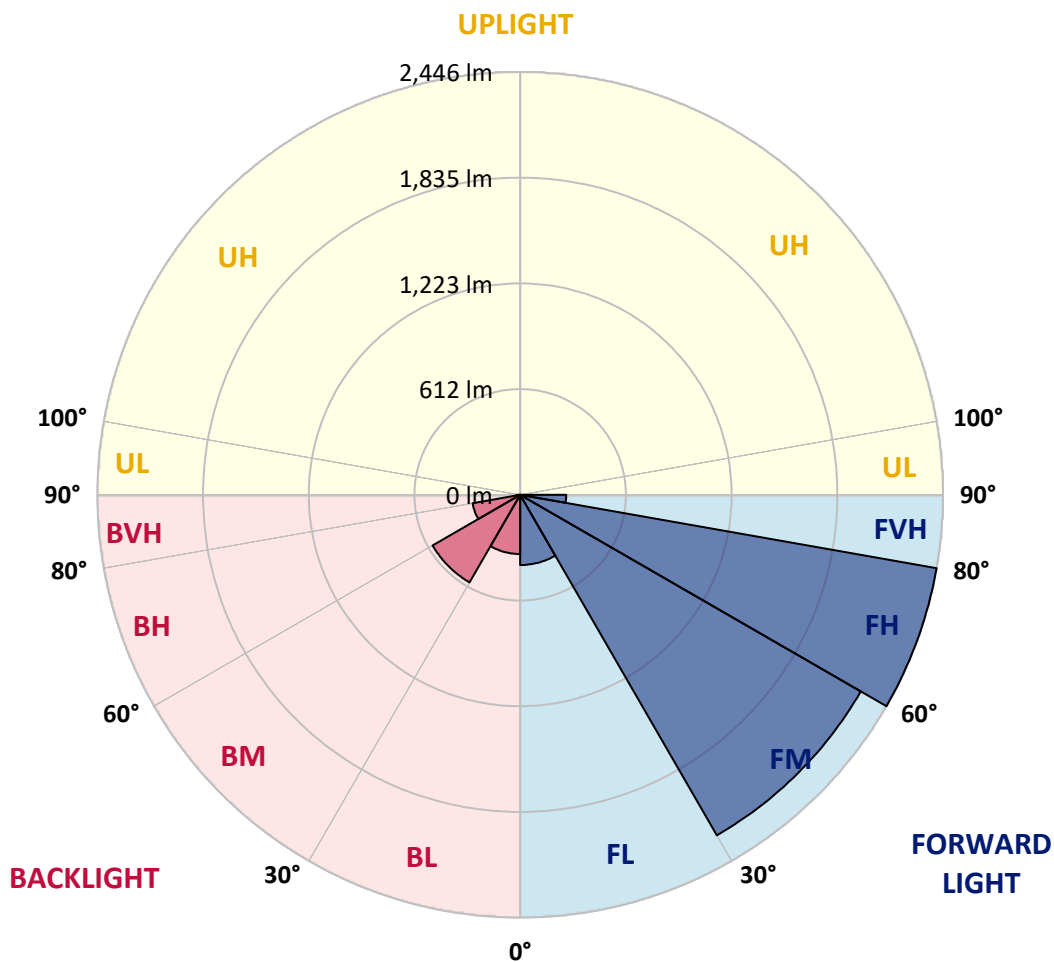
CATALOG NUMBER: ECM-E03-LED-E1-SLL-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.2	6.1			
FM (30°-60°)	2275.1	34.4			
FH (60°-80°)	2446.3	36.9			G2/5000
FVH (80°-90°)	266.5	4.0			G3/500
BL (0°-30°)	342.8	5.2	B1/500		
BM (30°-60°)	585.1	8.8	B1/1000		
BH (60°-80°)	279.5	4.2	B1/500		G1/500
BVH (80°-90°)	20.9	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	861.7	862.6	862.6	861.7	860.9	861.7	860.0	861.7	860.9	860.0	860.9
5°	850.7	851.6	853.3	853.3	855.0	858.3	859.2	863.4	865.9	866.8	870.2
7.5°	824.6	828.8	831.3	834.7	839.8	848.2	854.1	864.2	871.8	878.6	887.9
10°	808.5	813.6	818.7	826.3	833.9	844.8	855.0	867.6	877.8	887.9	898.9
12.5°	812.8	818.7	825.4	831.3	843.1	853.3	865.9	881.1	886.2	896.3	905.6
15°	847.4	852.4	857.5	864.2	875.2	887.0	903.9	920.8	924.2	935.1	945.3
17.5°	893.8	894.6	903.1	914.9	925.0	944.4	964.7	987.5	1001.8	1008.6	1014.5
20°	941.9	944.4	957.9	968.9	991.7	1017.0	1046.5	1080.3	1092.1	1121.7	1132.6
22.5°	1013.6	1012.8	1028.8	1044.0	1069.3	1096.3	1139.4	1185.8	1212.8	1235.6	1244.0
25°	1122.5	1125.0	1122.5	1144.5	1170.6	1214.5	1257.5	1304.0	1320.0	1359.7	1378.2
27.5°	1230.5	1250.0	1276.1	1282.9	1314.9	1365.6	1399.3	1449.1	1488.0	1498.9	1529.3
30°	1331.0	1371.5	1414.5	1450.8	1508.2	1569.8	1620.5	1677.0	1679.5	1699.8	1708.2
32.5°	1433.1	1496.4	1559.7	1606.1	1661.8	1743.7	1837.4	1929.4	1989.3	2050.9	2019.7
35°	1561.4	1660.1	1748.7	1820.5	1867.8	1943.7	2051.7	2201.1	2297.3	2370.8	2413.0
37.5°	1678.7	1828.1	1964.0	2066.1	2181.7	2235.7	2306.6	2414.7	2525.2	2593.6	2629.0
40°	1764.8	1969.0	2161.5	2309.2	2456.0	2585.1	2674.6	2762.4	2911.8	2997.0	3003.8
42.5°	1832.3	2092.3	2324.4	2536.2	2752.3	2932.9	3040.9	3152.3	3342.2	3441.0	3433.4
45°	1878.7	2184.2	2472.0	2732.8	2994.5	3230.0	3438.4	3603.8	3798.0	3986.2	3948.2
47.5°	1919.2	2260.2	2589.4	2883.9	3197.9	3491.6	3751.5	3984.5	4241.1	4495.1	4510.3
50°	1959.7	2321.8	2695.7	3035.0	3388.6	3757.4	4071.4	4371.0	4691.7	5015.0	5089.3
52.5°	2015.5	2391.0	2794.5	3172.6	3583.6	3972.7	4322.9	4696.0	5092.6	5404.9	5615.9
55°	2099.0	2487.2	2916.8	3310.1	3758.3	4187.0	4574.4	5004.9	5369.5	5755.2	6055.6
57.5°	2235.7	2615.5	3058.6	3460.4	3927.1	4381.2	4783.7	5235.3	5583.0	6010.9	6388.2
60°	2408.8	2790.2	3219.0	3638.4	4125.4	4653.8	5059.7	5393.9	5742.5	6175.5	6629.5
62.5°	2605.4	2987.7	3414.8	3847.8	4401.4	4973.6	5322.2	5512.9	5816.8	6288.6	6785.7
65°	2778.4	3172.6	3598.8	4057.9	4684.1	5334.9	5495.2	5543.3	5827.8	6334.2	6853.2
67.5°	2920.2	3373.4	3771.0	4228.4	4982.1	5564.4	5498.6	5402.4	5678.4	6223.6	6724.1
70°	2994.5	3462.9	3852.8	4243.6	5045.4	5596.5	5366.1	5104.5	5230.2	5763.6	6182.2
72.5°	2912.6	3392.8	3700.9	3944.0	4666.4	5201.5	4907.8	4414.1	4528.9	5045.4	5153.4
75°	2591.9	3171.7	3351.5	3343.0	3732.1	4009.0	3796.3	3481.5	3774.3	3989.5	3879.0
77.5°	1935.3	2597.8	2698.2	2513.4	2596.1	2829.1	2628.2	2872.9	3228.3	3325.3	3116.0
80°	1217.0	1904.0	1915.0	1684.6	1640.7	1731.9	1991.0	2511.7	2851.0	2830.7	2553.9
82.5°	677.7	1234.8	1352.1	1141.1	1087.1	1310.7	1773.2	2050.1	2005.3	1988.4	1628.1
85°	463.4	843.1	1030.5	988.3	1093.0	1307.3	1454.2	1299.7	1251.6	1066.0	865.1
87.5°	188.2	379.8	638.9	734.3	779.0	956.2	837.2	681.9	525.0	498.0	427.9
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°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	858.3	860.0	860.0	860.9	861.7	862.6	862.6	862.6	863.4	864.2	863.4
5°	871.0	873.5	875.2	875.2	876.9	878.6	880.3	879.4	882.0	883.7	884.5
7.5°	891.3	896.3	900.5	903.9	905.6	905.6	905.6	903.1	905.6	906.4	907.3
10°	905.6	911.5	912.4	915.7	914.9	914.0	912.4	910.7	911.5	913.2	915.7
12.5°	909.8	915.7	917.4	920.0	919.1	918.3	914.9	914.9	914.0	916.6	919.1
15°	944.4	949.5	957.9	950.3	951.2	944.4	938.5	935.1	933.5	935.1	936.8
17.5°	1023.8	1032.2	1028.8	1017.0	1016.2	1001.8	999.3	982.4	982.4	982.4	977.3
20°	1132.6	1131.8	1125.9	1114.1	1088.7	1083.7	1065.1	1051.6	1039.0	1036.4	1030.5
22.5°	1251.6	1239.0	1235.6	1211.1	1195.1	1164.7	1136.9	1126.7	1114.9	1112.4	1111.5
25°	1367.3	1372.3	1347.9	1336.0	1295.5	1268.5	1252.5	1227.2	1227.2	1223.8	1219.6
27.5°	1512.4	1529.3	1502.3	1485.4	1447.4	1409.5	1381.6	1366.4	1350.4	1339.4	1309.0
30°	1717.5	1728.5	1709.9	1675.3	1628.1	1560.5	1522.6	1505.7	1476.1	1439.0	1389.2
32.5°	2006.2	1991.0	1927.7	1866.9	1805.3	1741.2	1695.6	1665.2	1619.6	1545.3	1450.8
35°	2380.1	2249.2	2169.9	2086.3	2015.5	1943.7	1909.1	1854.2	1750.4	1629.7	1503.1
37.5°	2564.0	2505.8	2414.7	2352.2	2267.8	2196.1	2117.6	2023.9	1889.7	1716.7	1541.1
40°	2932.9	2823.1	2752.3	2681.4	2577.5	2479.6	2373.3	2222.2	2006.2	1790.9	1570.7
42.5°	3320.3	3239.2	3111.0	3016.4	2938.8	2776.7	2607.9	2396.9	2125.2	1858.5	1597.7
45°	3825.0	3639.3	3480.6	3400.4	3247.7	3050.2	2853.5	2552.2	2234.9	1929.4	1628.1
47.5°	4332.2	4093.4	3929.6	3780.2	3617.3	3352.3	3046.0	2687.3	2319.3	1988.4	1653.4
50°	4876.6	4561.8	4372.7	4193.8	3925.4	3604.7	3214.8	2798.7	2407.1	2044.1	1676.2
52.5°	5430.2	5032.7	4762.6	4554.2	4221.6	3825.0	3367.5	2914.3	2500.7	2098.2	1694.7
55°	5928.2	5555.1	5206.6	4885.0	4485.0	4024.1	3507.6	3018.1	2585.1	2154.7	1706.5
57.5°	6379.7	6054.8	5638.7	5207.4	4727.2	4209.0	3636.8	3130.4	2664.5	2196.1	1705.7
60°	6689.5	6499.6	6067.5	5541.6	4980.4	4378.6	3792.1	3255.3	2734.5	2225.6	1699.0
62.5°	6912.3	6874.3	6497.0	5863.2	5187.2	4531.4	3942.3	3359.1	2785.2	2229.0	1670.3
65°	7051.5	7098.0	6833.0	6067.5	5302.8	4647.9	4016.6	3368.4	2748.9	2173.3	1594.3
67.5°	6963.8	7083.6	6831.3	5978.8	5192.2	4539.0	3907.7	3213.1	2555.6	2000.3	1423.8
70°	6419.4	6599.2	6350.2	5391.4	4651.2	4118.7	3506.8	2759.9	2198.6	1647.5	1125.0
72.5°	5035.2	5272.4	5054.7	4397.2	3850.3	3404.7	2950.6	2167.4	1676.2	1210.3	756.2
75°	3473.9	3565.0	3435.0	2981.0	2813.0	2639.2	2214.6	1456.7	1107.3	746.9	444.8
77.5°	2694.9	2364.9	2115.9	1930.2	1926.8	1894.8	1449.1	871.8	662.5	411.0	247.3
80°	2026.4	1590.9	1313.2	1148.7	1194.2	1335.2	844.8	447.3	342.7	227.0	151.9
82.5°	1333.5	1015.3	810.2	717.4	725.0	837.2	424.5	246.4	168.8	129.1	98.7
85°	812.8	789.1	703.9	638.9	589.1	575.6	330.0	189.1	93.7	66.7	50.6
87.5°	396.7	470.1	573.9	581.5	499.6	423.7	171.3	54.0	39.7	21.1	15.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	864.2	868.5	866.8	865.9	865.9	870.2	870.2	868.5	868.5	869.3	869.3
5°	884.5	888.7	887.0	887.9	889.6	890.4	892.9	890.4	888.7	890.4	889.6
7.5°	908.1	912.4	911.5	913.2	914.9	916.6	918.3	917.4	915.7	915.7	914.9
10°	918.3	926.7	930.1	933.5	937.7	939.4	941.9	941.9	938.5	938.5	934.3
12.5°	925.0	931.8	940.2	945.3	952.9	958.8	961.3	962.1	959.6	956.2	952.0
15°	939.4	944.4	952.9	957.9	967.2	974.8	979.9	979.0	975.7	966.4	953.7
17.5°	974.8	974.0	977.3	980.7	983.2	987.5	985.8	978.2	962.1	945.3	927.5
20°	1028.0	1027.1	1022.1	1014.5	1005.2	993.4	974.8	952.0	925.0	894.6	867.6
22.5°	1103.1	1095.5	1088.7	1068.5	1036.4	996.8	948.6	903.9	871.8	842.3	812.8
25°	1202.7	1184.1	1151.2	1103.9	1053.3	994.2	924.2	864.2	823.7	789.1	759.6
27.5°	1265.1	1222.1	1167.2	1102.3	1034.7	958.8	881.1	822.0	776.5	738.5	704.7
30°	1318.3	1240.7	1163.9	1081.2	995.9	917.4	835.6	772.3	719.1	676.9	636.4
32.5°	1347.9	1244.0	1147.8	1049.1	956.2	866.8	778.2	709.8	659.2	606.8	551.1
35°	1366.4	1233.9	1117.4	1006.0	903.9	811.1	718.2	643.1	576.4	512.3	456.6
37.5°	1371.5	1217.0	1077.8	957.9	841.5	740.2	652.4	564.6	498.0	428.7	364.6
40°	1369.0	1185.0	1028.0	882.8	760.4	662.5	577.3	497.1	423.7	362.1	300.5
42.5°	1358.8	1148.7	968.9	821.2	698.0	604.3	525.8	444.8	379.0	313.1	260.8
45°	1355.4	1113.2	924.2	773.9	655.8	563.8	487.0	408.5	339.3	276.8	224.5
47.5°	1347.9	1081.2	882.8	737.6	621.2	532.6	453.2	376.4	304.7	248.1	197.5
50°	1331.0	1046.5	852.4	709.8	592.5	501.3	420.3	337.6	267.5	211.8	173.0
52.5°	1313.2	1024.6	833.0	681.9	562.1	464.2	384.0	300.5	234.6	182.3	152.8
55°	1295.5	1007.7	806.9	649.0	522.4	426.2	345.2	268.4	206.8	162.0	140.9
57.5°	1276.1	984.9	774.8	606.8	477.7	384.0	303.0	230.4	179.8	146.0	131.7
60°	1260.1	952.9	719.1	547.8	417.8	324.9	251.5	192.4	152.8	131.7	125.8
62.5°	1217.9	891.3	638.9	460.8	339.3	254.0	191.6	150.2	128.3	118.2	119.0
65°	1115.8	753.7	507.2	359.5	238.0	170.5	136.7	114.8	104.7	104.7	107.2
67.5°	940.2	573.9	359.5	228.7	156.1	123.2	104.7	95.4	93.7	95.4	99.6
70°	665.9	372.2	225.3	149.4	117.3	99.6	90.3	86.9	85.2	86.9	88.6
72.5°	410.2	219.4	143.5	116.5	100.4	89.5	83.6	81.0	80.2	80.2	79.3
75°	223.7	146.9	114.8	101.3	91.2	82.7	76.8	72.6	71.7	72.6	70.9
77.5°	142.6	114.8	102.1	93.7	84.4	73.4	68.4	65.0	65.0	64.1	62.5
80°	111.4	102.1	93.7	85.2	70.9	62.5	57.4	56.5	55.7	54.9	54.9
82.5°	83.6	81.0	76.8	69.2	56.5	49.8	47.3	47.3	46.4	43.9	43.9
85°	48.1	47.3	50.6	44.7	38.0	32.9	32.9	33.8	34.6	33.8	31.2
87.5°	16.0	13.5	14.3	14.3	11.8	9.3	12.7	15.2	14.3	12.7	15.2
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: P141398

CATALOG NUMBER: ECM-E03-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	866.8	868.5	871.8	868.5	866.8	866.8	865.1	865.9	863.4	860.9	861.7
5°	887.9	886.2	887.9	885.3	880.3	879.4	876.1	876.1	872.7	869.3	867.6
7.5°	911.5	909.0	909.8	904.8	898.9	894.6	890.4	888.7	884.5	879.4	876.1
10°	930.1	927.5	925.9	920.0	912.4	908.1	902.2	898.9	894.6	887.9	884.5
12.5°	941.9	936.0	932.6	922.5	915.7	911.5	904.8	903.1	898.0	892.1	889.6
15°	939.4	925.9	915.7	903.9	894.6	888.7	882.8	881.1	878.6	876.1	871.0
17.5°	898.0	881.1	870.2	845.7	832.2	826.3	825.4	824.6	822.9	822.9	817.0
20°	840.6	821.2	804.3	780.7	763.0	757.1	741.0	736.8	731.7	736.8	731.7
22.5°	789.1	764.7	745.2	725.8	704.7	687.9	666.8	656.6	642.3	638.9	640.6
25°	734.3	703.9	679.4	656.6	633.8	610.2	590.8	576.4	567.2	554.5	542.7
27.5°	667.6	642.3	609.4	590.8	563.8	537.6	517.4	502.2	485.3	475.2	458.3
30°	600.1	561.3	528.3	502.2	472.6	460.0	440.6	424.5	409.3	398.4	384.0
32.5°	512.3	471.8	437.2	406.8	386.5	368.8	357.0	343.5	335.9	326.6	317.3
35°	419.5	368.8	327.5	314.0	291.2	292.0	286.1	279.4	273.5	265.0	264.2
37.5°	316.5	276.8	249.8	232.9	229.6	224.5	225.3	224.5	222.8	220.3	220.3
40°	250.7	215.2	197.5	194.1	194.1	193.3	192.4	192.4	192.4	190.7	189.9
42.5°	214.4	189.1	183.1	181.5	179.8	178.9	177.2	174.7	174.7	173.0	170.5
45°	189.1	174.7	173.0	171.3	171.3	168.8	166.3	164.6	163.7	162.9	161.2
47.5°	173.0	165.4	163.7	162.0	161.2	159.5	157.0	154.5	153.6	152.8	152.8
50°	155.3	150.2	150.2	150.2	147.7	146.0	143.5	141.8	141.8	140.9	140.1
52.5°	142.6	140.1	139.3	138.4	136.7	134.2	132.5	131.7	130.8	131.7	130.8
55°	136.7	135.0	134.2	132.5	130.8	128.3	126.6	124.1	123.2	124.9	124.9
57.5°	130.0	129.1	128.3	126.6	124.9	121.5	119.0	117.3	117.3	119.8	119.0
60°	127.4	126.6	125.8	124.9	122.4	118.2	113.9	112.3	112.3	114.8	114.8
62.5°	121.5	120.7	119.8	119.0	115.6	112.3	108.0	106.3	107.2	108.9	111.4
65°	110.6	111.4	110.6	110.6	108.0	105.5	103.0	101.3	100.4	101.3	103.8
67.5°	100.4	101.3	101.3	101.3	100.4	97.9	96.2	93.7	92.0	92.8	93.7
70°	91.2	92.0	92.8	92.8	91.2	88.6	86.1	83.6	82.7	83.6	83.6
72.5°	81.0	81.0	81.0	81.9	81.0	80.2	76.8	73.4	73.4	72.6	73.4
75°	70.9	70.9	70.9	70.9	69.2	69.2	67.5	64.1	63.3	64.1	65.0
77.5°	62.5	60.8	59.9	59.9	59.9	58.2	57.4	57.4	56.5	56.5	56.5
80°	51.5	49.8	48.1	47.3	48.1	48.1	49.8	49.8	49.0	49.0	49.0
82.5°	40.5	37.1	36.3	36.3	34.6	36.3	39.7	43.9	42.2	43.0	43.0
85°	29.5	26.2	24.5	24.5	22.8	26.2	30.4	33.8	32.1	33.8	32.9
87.5°	13.5	12.7	10.1	8.4	10.1	15.2	17.7	18.6	16.0	19.4	19.4
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°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	865.1	861.7	860.9	861.7	860.0	862.6	862.6	861.7	861.7	860.9	862.6
5°	870.2	865.9	863.4	863.4	861.7	864.2	862.6	861.7	860.9	860.9	860.9
7.5°	877.8	871.8	867.6	865.1	861.7	861.7	859.2	856.7	855.0	854.1	854.1
10°	884.5	876.1	869.3	863.4	858.3	854.1	849.9	844.0	842.3	840.6	841.5
12.5°	883.7	874.4	864.2	855.0	843.1	838.1	827.1	820.4	820.4	816.1	818.7
15°	865.1	849.1	834.7	819.5	805.2	795.0	781.5	773.9	769.7	768.9	774.8
17.5°	809.4	794.2	780.7	763.8	745.2	738.5	729.2	725.8	723.3	727.5	731.7
20°	734.3	714.9	702.2	692.1	692.1	690.4	686.2	680.3	675.2	674.3	679.4
22.5°	627.9	620.3	622.9	616.1	616.1	612.7	619.5	608.5	614.4	609.4	611.9
25°	539.3	535.9	534.2	533.4	533.4	539.3	538.5	540.2	534.2	537.6	536.8
27.5°	459.1	454.9	449.0	452.4	455.8	460.0	461.7	462.5	467.6	458.3	461.7
30°	382.3	375.6	379.8	376.4	378.1	377.3	377.3	377.3	380.6	387.4	382.3
32.5°	313.1	309.7	314.0	308.1	308.9	308.9	307.2	304.7	306.4	298.8	304.7
35°	259.1	254.9	258.3	255.7	253.2	246.4	243.9	239.7	240.5	238.8	238.0
37.5°	216.9	216.1	213.5	213.5	211.8	211.0	206.8	207.6	208.5	210.2	210.2
40°	187.4	186.5	185.7	187.4	188.2	189.1	190.7	192.4	195.0	197.5	200.0
42.5°	170.5	170.5	170.5	173.9	176.4	180.6	183.1	186.5	189.9	194.1	197.5
45°	160.4	159.5	161.2	163.7	168.0	172.2	176.4	181.5	186.5	190.7	193.3
47.5°	151.9	151.1	152.8	155.3	159.5	166.3	172.2	178.1	184.0	188.2	189.9
50°	140.9	140.9	141.8	144.3	148.5	154.5	160.4	167.1	173.0	176.4	178.1
52.5°	132.5	133.4	133.4	135.9	140.1	145.2	151.1	157.0	161.2	163.7	167.1
55°	124.1	125.8	125.8	128.3	132.5	138.4	146.0	151.1	156.1	159.5	162.0
57.5°	118.2	119.0	119.0	122.4	127.4	132.5	140.1	146.9	152.8	157.0	160.4
60°	113.1	113.9	113.1	117.3	121.5	127.4	134.2	141.8	150.2	156.1	158.7
62.5°	108.9	108.9	108.0	111.4	113.9	117.3	123.2	131.7	139.3	144.3	146.9
65°	103.8	103.8	102.1	105.5	105.5	110.6	114.8	122.4	128.3	134.2	135.9
67.5°	93.7	95.4	94.5	97.1	100.4	103.8	108.9	114.8	120.7	124.9	127.4
70°	83.6	84.4	86.9	88.6	92.0	93.7	97.9	102.1	108.0	110.6	113.1
72.5°	74.3	75.1	76.8	78.5	81.9	83.6	86.9	90.3	95.4	97.9	100.4
75°	65.0	65.8	66.7	68.4	70.1	71.7	73.4	76.8	80.2	83.6	86.1
77.5°	55.7	56.5	59.1	58.2	59.9	60.8	63.3	65.0	66.7	70.1	73.4
80°	49.0	48.1	49.8	50.6	52.3	52.3	54.0	54.0	56.5	56.5	57.4
82.5°	41.4	40.5	42.2	44.7	45.6	45.6	47.3	43.9	43.0	43.9	46.4
85°	31.2	32.1	32.9	36.3	37.1	37.1	38.8	36.3	32.9	32.9	34.6
87.5°	17.7	13.5	19.4	22.8	22.8	23.6	25.3	24.5	23.6	18.6	19.4
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°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	0°
2.5°	861.7	862.6	863.4	864.2	865.1	864.2	865.9	864.2	865.1	863.4	862.6	2.5°
5°	860.9	861.7	861.7	863.4	864.2	861.7	863.4	860.9	860.9	859.2	856.7	5°
7.5°	855.0	856.7	856.7	858.3	858.3	855.8	855.8	850.7	849.1	843.1	838.9	7.5°
10°	843.1	845.7	847.4	850.7	852.4	848.2	845.7	839.8	833.0	826.3	819.5	10°
12.5°	822.9	823.7	829.6	834.7	837.2	839.8	838.1	837.2	830.5	826.3	823.7	12.5°
15°	776.5	783.2	789.1	800.9	809.4	818.7	825.4	833.0	836.4	840.6	842.3	15°
17.5°	736.0	743.6	747.8	757.9	766.3	780.7	798.4	817.8	831.3	848.2	864.2	17.5°
20°	679.4	692.1	695.4	711.5	722.5	741.0	760.4	784.9	811.9	838.1	866.8	20°
22.5°	616.1	622.0	628.8	645.7	659.2	682.8	712.3	746.1	777.3	813.6	855.0	22.5°
25°	539.3	546.9	553.7	572.2	591.6	613.6	649.0	690.4	730.1	778.2	832.2	25°
27.5°	463.4	469.3	481.1	494.6	516.5	540.2	584.0	629.6	675.2	733.4	797.6	27.5°
30°	384.0	389.9	395.8	411.9	434.7	462.5	502.2	556.2	610.2	672.7	748.6	30°
32.5°	308.1	309.7	321.6	333.4	352.8	376.4	419.5	471.8	530.0	606.0	681.1	32.5°
35°	240.5	250.7	255.7	271.8	283.6	308.1	344.3	392.5	453.2	530.0	611.0	35°
37.5°	213.5	216.9	223.7	235.5	251.5	273.5	298.8	335.9	388.2	453.2	529.2	37.5°
40°	203.4	206.8	211.8	221.1	236.3	256.6	277.7	307.2	347.7	399.2	467.6	40°
42.5°	200.0	200.9	202.6	211.0	226.2	249.0	274.3	302.1	333.4	374.7	428.7	42.5°
45°	195.8	195.8	196.6	202.6	216.1	239.7	271.8	307.2	342.7	379.8	425.4	45°
47.5°	192.4	193.3	192.4	195.0	205.1	227.9	263.3	306.4	353.6	401.7	451.5	47.5°
50°	178.9	178.9	179.8	180.6	188.2	210.2	244.8	292.0	350.3	415.2	483.6	50°
52.5°	168.0	169.6	169.6	171.3	176.4	194.1	228.7	278.5	341.8	417.8	509.8	52.5°
55°	164.6	166.3	167.1	167.1	170.5	185.7	218.6	265.9	332.5	415.2	519.9	55°
57.5°	162.0	163.7	164.6	163.7	166.3	178.9	209.3	255.7	322.4	409.3	524.1	57.5°
60°	159.5	160.4	158.7	157.0	157.8	168.8	195.8	241.4	310.6	400.9	522.4	60°
62.5°	147.7	148.5	146.9	145.2	143.5	151.9	176.4	221.1	286.1	381.5	508.9	62.5°
65°	137.6	137.6	137.6	135.9	134.2	139.3	157.0	195.0	251.5	346.9	477.7	65°
67.5°	129.1	128.3	128.3	127.4	125.8	127.4	138.4	164.6	208.5	292.0	421.2	67.5°
70°	115.6	114.8	115.6	114.8	113.1	113.1	118.2	132.5	162.0	214.4	327.5	70°
72.5°	102.1	103.0	104.7	104.7	104.7	105.5	105.5	109.7	125.8	153.6	222.8	72.5°
75°	87.8	88.6	91.2	94.5	92.8	93.7	93.7	96.2	104.7	121.5	156.1	75°
77.5°	74.3	76.8	80.2	81.0	78.5	78.5	80.2	84.4	92.0	102.1	119.0	77.5°
80°	60.8	64.1	65.0	66.7	67.5	67.5	69.2	72.6	80.2	92.8	106.3	80°
82.5°	48.1	50.6	53.2	55.7	57.4	59.9	60.8	62.5	70.1	82.7	97.9	82.5°
85°	36.3	38.8	42.2	44.7	46.4	49.0	48.1	49.0	53.2	63.3	74.3	85°
87.5°	21.9	21.9	24.5	25.3	26.2	26.2	27.9	24.5	26.2	33.8	40.5	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°
860.9	860.9	860.9	860.9	860.9	860.9	860.9
863.4	862.6	861.7	862.6	864.2	864.2	861.7
857.5	855.0	853.3	853.3	853.3	852.4	850.7
837.2	833.0	830.5	828.8	828.0	828.0	824.6
815.3	812.8	807.7	806.0	806.9	809.4	808.5
820.4	812.8	810.2	810.2	809.4	813.6	812.8
848.2	848.2	844.8	844.0	842.3	847.4	847.4
877.8	885.3	888.7	885.3	886.2	887.0	893.8
893.8	915.7	927.5	936.8	937.7	942.7	941.9
896.3	936.0	967.2	987.5	1006.0	1015.3	1013.6
883.7	938.5	993.4	1044.9	1083.7	1104.8	1122.5
866.8	931.8	1002.7	1075.2	1138.5	1195.1	1230.5
827.1	909.8	1001.0	1093.8	1184.1	1265.1	1331.0
771.4	866.8	975.7	1098.0	1224.6	1336.9	1433.1
697.1	799.3	931.8	1082.0	1249.1	1416.2	1561.4
617.0	729.2	874.4	1055.0	1261.8	1479.5	1678.7
546.9	657.5	816.1	1020.4	1260.1	1520.9	1764.8
501.3	605.1	765.5	987.5	1251.6	1544.5	1832.3
486.1	579.8	731.7	961.3	1246.6	1561.4	1878.7
506.4	587.4	724.1	949.5	1244.9	1580.8	1919.2
553.7	629.6	752.8	968.9	1260.1	1600.2	1959.7
598.4	688.7	815.3	1024.6	1316.6	1656.8	2015.5
634.7	752.8	882.8	1098.0	1397.6	1744.5	2099.0
654.9	802.6	970.6	1200.2	1508.2	1873.7	2235.7
663.4	837.2	1045.7	1307.3	1647.5	2021.4	2408.8
660.0	853.3	1099.7	1405.2	1773.2	2183.4	2605.4
638.9	853.3	1133.5	1483.7	1878.7	2312.5	2778.4
588.3	823.7	1136.9	1529.3	1959.7	2421.4	2920.2
495.4	738.5	1080.3	1524.2	1985.1	2456.0	2994.5
346.9	551.1	901.4	1377.4	1877.0	2374.1	2912.6
215.2	343.5	645.7	1065.1	1562.2	2014.6	2591.9
151.1	208.5	369.7	674.3	1075.2	1501.5	1935.3
125.8	153.6	211.0	371.4	646.5	925.0	1217.0
108.9	124.1	146.9	211.8	329.2	492.9	677.7
81.0	90.3	101.3	139.3	207.6	304.7	463.4
32.9	37.1	41.4	55.7	127.4	175.6	188.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)