

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: P141444

Luminaire Tested: **EMM-F03-LED-E1-SLL-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141444  
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: EMM-F03-LED-E1-SLL-7030  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5916.3 lumens  
Efficiency: N/A  
Efficacy: 75.6 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

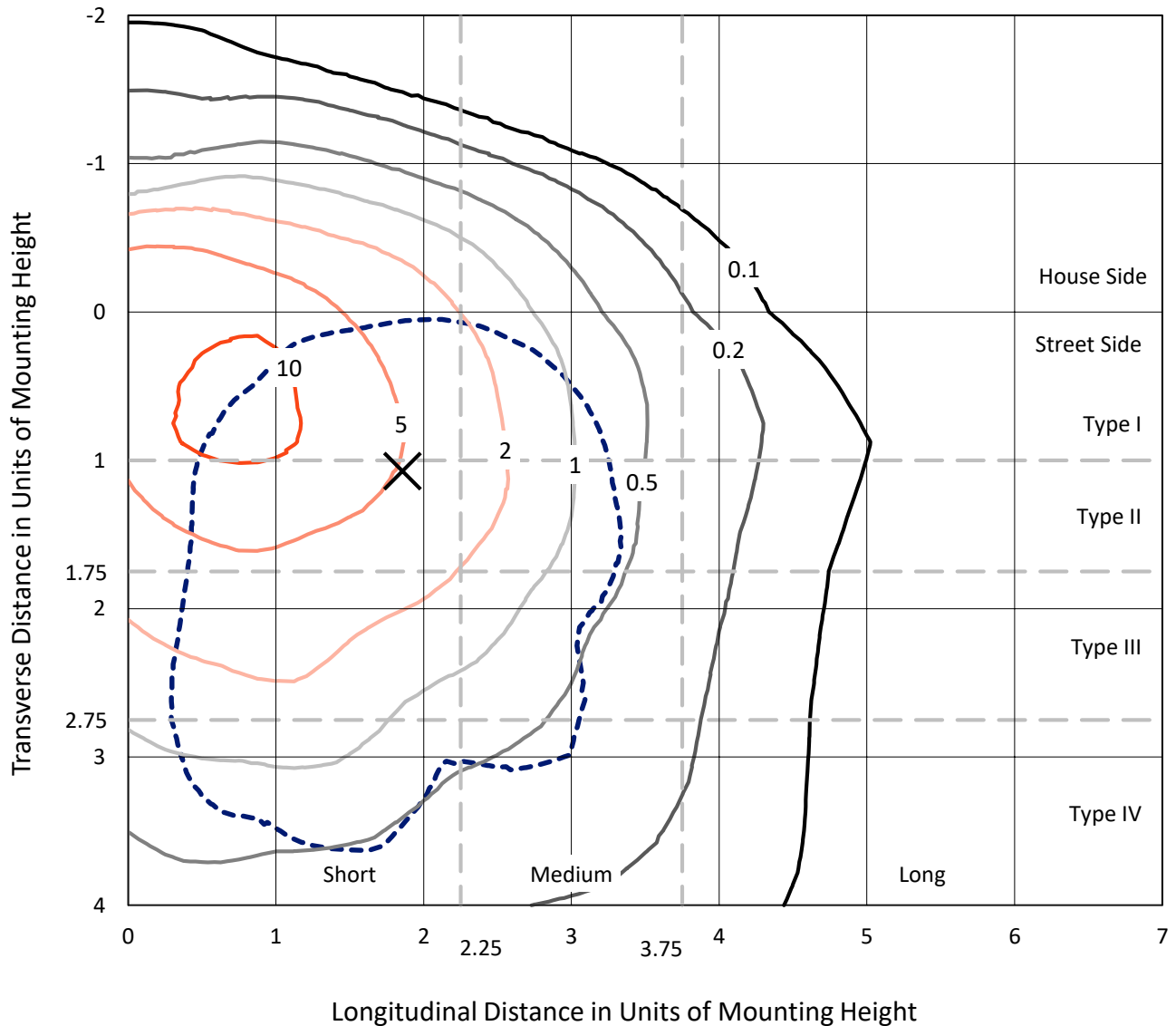
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

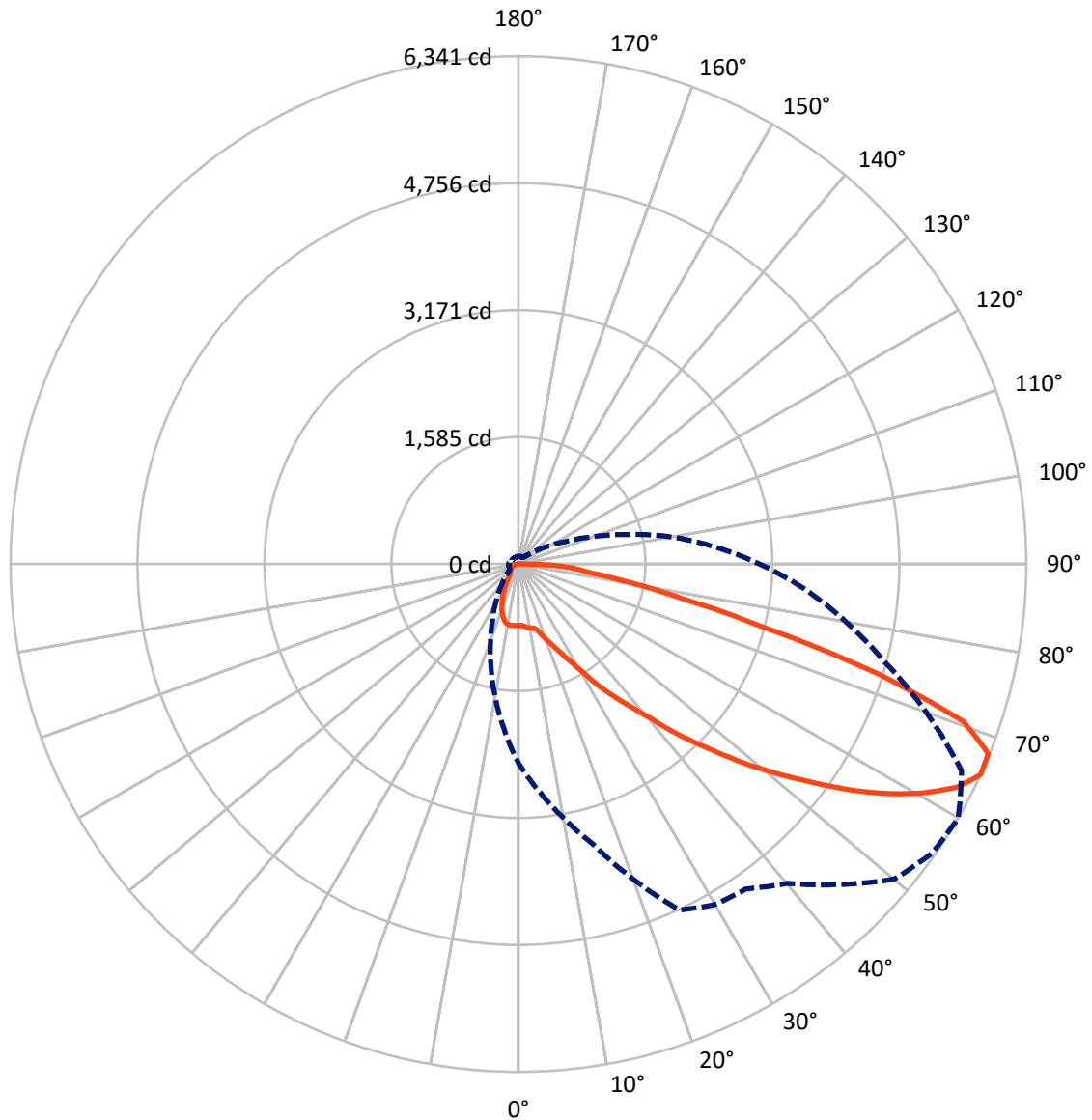
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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	1097.3	0.0	1097.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	4818.9	0.0	4818.9
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	5916.3	0.0	5916.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.4	1.3
10°-20°	223.5	3.8
20°-30°	371.3	6.3
30°-40°	542.8	9.2
40°-50°	825.6	14.0
50°-60°	1186.8	20.1
60°-70°	1459.1	24.7
70°-80°	976.1	16.5
80°-90°	256.8	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°	5916.3	100.0
0°-180°	5916.3	100.0



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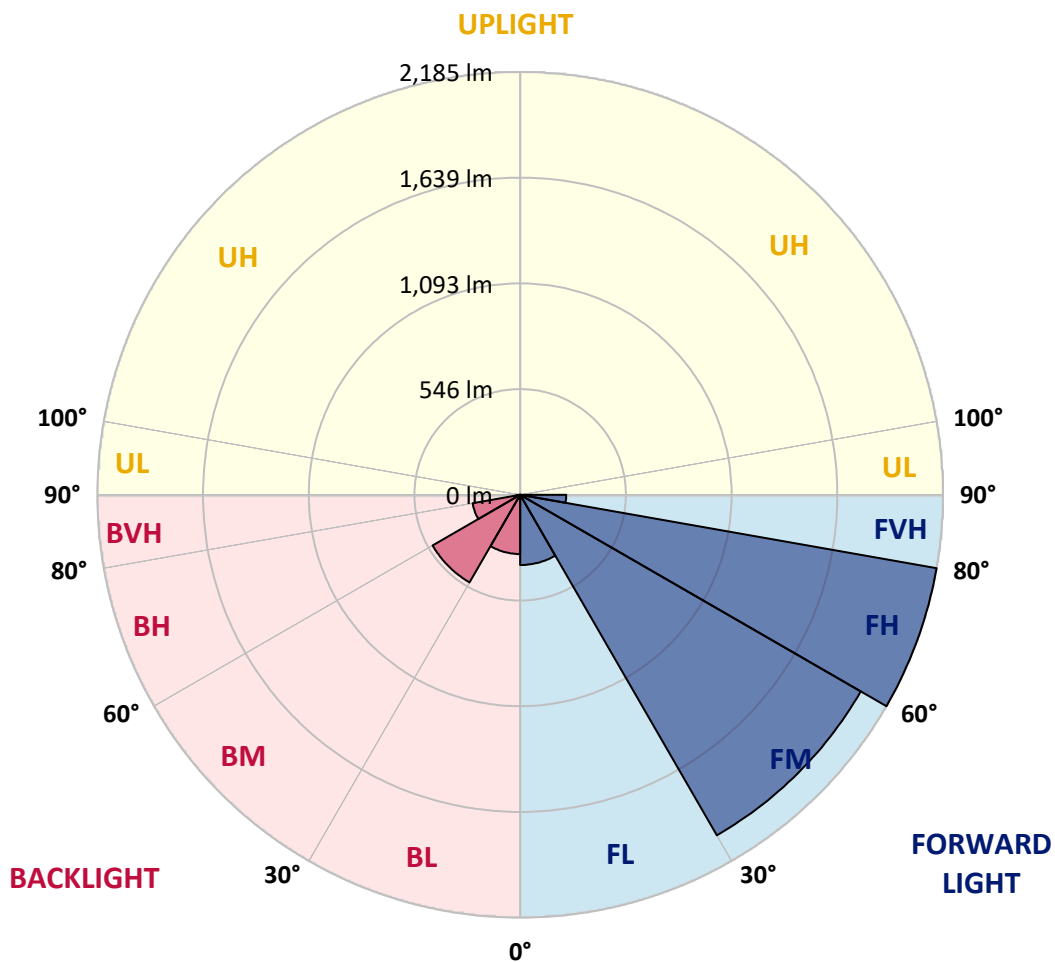
CATALOG NUMBER: EMM-F03-LED-E1-SLL-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.9	6.1			
FM	(30°-60°)	2032.5	34.4			
FH	(60°-80°)	2185.5	36.9			G2/5000
FVH	(80°-90°)	238.1	4.0			G3/500
BL	(0°-30°)	306.3	5.2	B1/500		
BM	(30°-60°)	522.7	8.8	B1/1000		
BH	(60°-80°)	249.7	4.2	B1/500		G1/500
BVH	(80°-90°)	18.7	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°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	769.8	770.6	770.6	769.8	769.1	769.8	768.3	769.8	769.1	768.3	769.1
5°	760.0	760.8	762.3	762.3	763.8	766.8	767.6	771.3	773.6	774.4	777.4
7.5°	736.7	740.4	742.7	745.7	750.2	757.8	763.0	772.1	778.9	784.9	793.2
10°	722.3	726.8	731.4	738.2	744.9	754.7	763.8	775.1	784.2	793.2	803.0
12.5°	726.1	731.4	737.4	742.7	753.2	762.3	773.6	787.2	791.7	800.7	809.0
15°	757.0	761.5	766.1	772.1	781.9	792.4	807.5	822.6	825.6	835.4	844.5
17.5°	798.5	799.2	806.8	817.3	826.4	843.7	861.8	882.2	895.0	901.0	906.3
20°	841.5	843.7	855.8	865.6	885.9	908.6	935.0	965.1	975.7	1002.1	1011.9
22.5°	905.5	904.8	919.1	932.7	955.3	979.4	1017.9	1059.4	1083.5	1103.8	1111.4
25°	1002.8	1005.1	1002.8	1022.4	1045.8	1085.0	1123.5	1164.9	1179.2	1214.7	1231.3
27.5°	1099.3	1116.7	1140.0	1146.1	1174.7	1220.0	1250.1	1294.6	1329.3	1339.1	1366.2
30°	1189.0	1225.2	1263.7	1296.1	1347.4	1402.4	1447.7	1498.2	1500.4	1518.5	1526.1
32.5°	1280.3	1336.8	1393.4	1434.8	1484.6	1557.8	1641.4	1723.6	1777.2	1832.2	1804.3
35°	1394.9	1483.1	1562.3	1626.4	1668.6	1736.4	1833.0	1966.4	2052.4	2118.0	2155.7
37.5°	1499.7	1633.1	1754.5	1845.8	1949.1	1997.3	2060.7	2157.2	2255.9	2317.0	2348.7
40°	1576.6	1759.1	1931.0	2062.9	2194.1	2309.5	2389.4	2467.8	2601.3	2677.4	2683.5
42.5°	1636.9	1869.1	2076.5	2265.8	2458.8	2620.1	2716.6	2816.2	2985.8	3074.0	3067.2
45°	1678.4	1951.3	2208.4	2441.4	2675.2	2885.5	3071.8	3219.6	3393.0	3561.1	3527.2
47.5°	1714.6	2019.2	2313.3	2576.4	2856.9	3119.3	3351.5	3559.6	3788.8	4015.8	4029.3
50°	1750.8	2074.2	2408.3	2711.4	3027.3	3356.8	3637.3	3904.9	4191.4	4480.2	4546.6
52.5°	1800.5	2136.1	2496.5	2834.3	3201.5	3549.0	3862.0	4195.2	4549.6	4828.6	5017.1
55°	1875.2	2222.0	2605.8	2957.2	3357.5	3740.6	4086.6	4471.2	4796.9	5141.5	5409.9
57.5°	1997.3	2336.6	2732.5	3091.4	3508.3	3914.0	4273.6	4677.0	4987.7	5369.9	5707.0
60°	2151.9	2492.7	2875.7	3250.5	3685.5	4157.5	4520.2	4818.8	5130.2	5517.0	5922.6
62.5°	2327.6	2669.1	3050.7	3437.5	3932.1	4443.3	4754.7	4925.1	5196.5	5618.0	6062.1
65°	2482.1	2834.3	3215.0	3625.2	4184.7	4766.0	4909.3	4952.2	5206.3	5658.7	6122.4
67.5°	2608.8	3013.7	3368.8	3777.5	4450.8	4971.1	4912.3	4826.3	5072.9	5559.9	6007.1
70°	2675.2	3093.6	3442.0	3791.1	4507.4	4999.7	4793.9	4560.2	4672.5	5149.0	5523.0
72.5°	2602.0	3031.1	3306.3	3523.4	4168.8	4646.9	4384.5	3943.4	4045.9	4507.4	4603.9
75°	2315.5	2833.5	2994.1	2986.6	3334.2	3581.5	3391.5	3110.2	3371.9	3564.1	3465.4
77.5°	1728.9	2320.8	2410.5	2245.4	2319.3	2527.4	2347.9	2566.6	2884.0	2970.7	2783.7
80°	1087.3	1701.0	1710.8	1505.0	1465.8	1547.2	1778.7	2243.9	2547.0	2528.9	2281.6
82.5°	605.5	1103.1	1207.9	1019.4	971.1	1171.0	1584.1	1831.5	1791.5	1776.4	1454.5
85°	413.9	753.2	920.6	882.9	976.4	1167.9	1299.1	1161.1	1118.2	952.3	772.8
87.5°	168.1	339.3	570.8	656.0	695.9	854.3	748.0	609.2	469.0	444.9	382.3
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	766.8	768.3	768.3	769.1	769.8	770.6	770.6	770.6	771.3	772.1	771.3
5°	778.1	780.4	781.9	781.9	783.4	784.9	786.4	785.7	787.9	789.4	790.2
7.5°	796.2	800.7	804.5	807.5	809.0	809.0	809.0	806.8	809.0	809.8	810.5
10°	809.0	814.3	815.1	818.1	817.3	816.6	815.1	813.6	814.3	815.8	818.1
12.5°	812.8	818.1	819.6	821.9	821.1	820.3	817.3	817.3	816.6	818.8	821.1
15°	843.7	848.2	855.8	849.0	849.8	843.7	838.4	835.4	833.9	835.4	836.9
17.5°	914.6	922.1	919.1	908.6	907.8	895.0	892.7	877.6	877.6	877.6	873.1
20°	1011.9	1011.1	1005.8	995.3	972.7	968.1	951.5	939.5	928.2	925.9	920.6
22.5°	1118.2	1106.9	1103.8	1082.0	1067.7	1040.5	1015.6	1006.6	996.0	993.8	993.0
25°	1221.5	1226.0	1204.1	1193.6	1157.4	1133.3	1118.9	1096.3	1096.3	1093.3	1089.5
27.5°	1351.2	1366.2	1342.1	1327.0	1293.1	1259.2	1234.3	1220.7	1206.4	1196.6	1169.4
30°	1534.4	1544.2	1527.6	1496.7	1454.5	1394.1	1360.2	1345.1	1318.7	1285.6	1241.1
32.5°	1792.2	1778.7	1722.1	1667.8	1612.8	1555.5	1514.8	1487.6	1446.9	1380.6	1296.1
35°	2126.3	2009.4	1938.5	1863.9	1800.5	1736.4	1705.5	1656.5	1563.8	1456.0	1342.9
37.5°	2290.6	2238.6	2157.2	2101.4	2026.0	1961.9	1891.8	1808.1	1688.2	1533.6	1376.8
40°	2620.1	2522.1	2458.8	2395.4	2302.7	2215.2	2120.2	1985.3	1792.2	1600.0	1403.2
42.5°	2966.2	2893.8	2779.2	2694.8	2625.4	2480.6	2329.8	2141.3	1898.6	1660.3	1427.3
45°	3417.1	3251.2	3109.5	3037.8	2901.4	2724.9	2549.3	2280.1	1996.6	1723.6	1454.5
47.5°	3870.2	3656.9	3510.6	3377.1	3231.6	2994.9	2721.2	2400.7	2072.0	1776.4	1477.1
50°	4356.6	4075.3	3906.4	3746.6	3506.8	3220.3	2872.0	2500.2	2150.4	1826.2	1497.4
52.5°	4851.2	4496.1	4254.8	4068.5	3771.5	3417.1	3008.4	2603.5	2234.1	1874.4	1514.0
55°	5296.1	4962.8	4651.4	4364.1	4006.7	3595.0	3133.6	2696.3	2309.5	1924.9	1524.6
57.5°	5699.4	5409.1	5037.4	4652.1	4223.1	3760.2	3249.0	2796.6	2380.4	1961.9	1523.8
60°	5976.2	5806.5	5420.5	4950.7	4449.3	3911.7	3387.7	2908.2	2442.9	1988.3	1517.8
62.5°	6175.2	6141.3	5804.2	5238.0	4634.0	4048.2	3521.9	3000.9	2488.2	1991.3	1492.2
65°	6299.6	6341.1	6104.3	5420.5	4737.3	4152.2	3588.3	3009.2	2455.8	1941.5	1424.3
67.5°	6221.2	6328.3	6102.8	5341.3	4638.6	4055.0	3491.0	2870.5	2283.1	1787.0	1272.0
70°	5734.9	5895.5	5673.0	4816.5	4155.3	3679.5	3132.8	2465.6	1964.2	1471.8	1005.1
72.5°	4498.3	4710.2	4515.7	3928.3	3439.7	3041.6	2636.0	1936.3	1497.4	1081.2	675.6
75°	3103.4	3184.9	3068.8	2663.1	2513.1	2357.7	1978.5	1301.4	989.2	667.3	397.4
77.5°	2407.5	2112.7	1890.3	1724.4	1721.4	1692.7	1294.6	778.9	591.9	367.2	220.9
80°	1810.3	1421.3	1173.2	1026.2	1066.9	1192.8	754.7	399.6	306.1	202.8	135.7
82.5°	1191.3	907.1	723.8	640.9	647.7	748.0	379.3	220.2	150.8	115.4	88.2
85°	726.1	705.0	628.8	570.8	526.3	514.2	294.8	168.9	83.7	59.6	45.2
87.5°	354.4	420.0	512.7	519.5	446.4	378.5	153.1	48.3	35.4	18.8	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





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	772.1	775.9	774.4	773.6	773.6	777.4	777.4	775.9	775.9	776.6	776.6
5°	790.2	794.0	792.4	793.2	794.7	795.5	797.7	795.5	794.0	795.5	794.7
7.5°	811.3	815.1	814.3	815.8	817.3	818.8	820.3	819.6	818.1	818.1	817.3
10°	820.3	827.9	830.9	833.9	837.7	839.2	841.5	841.5	838.4	838.4	834.7
12.5°	826.4	832.4	839.9	844.5	851.3	856.5	858.8	859.6	857.3	854.3	850.5
15°	839.2	843.7	851.3	855.8	864.1	870.9	875.4	874.6	871.6	863.3	852.0
17.5°	870.9	870.1	873.1	876.1	878.4	882.2	880.7	873.9	859.6	844.5	828.6
20°	918.4	917.6	913.1	906.3	898.0	887.5	870.9	850.5	826.4	799.2	775.1
22.5°	985.5	978.7	972.7	954.6	925.9	890.5	847.5	807.5	778.9	752.5	726.1
25°	1074.4	1057.9	1028.4	986.2	941.0	888.2	825.6	772.1	735.9	705.0	678.6
27.5°	1130.2	1091.8	1042.8	984.7	924.4	856.5	787.2	734.4	693.7	659.7	629.6
30°	1177.7	1108.4	1039.8	965.9	889.7	819.6	746.5	689.9	642.4	604.7	568.5
32.5°	1204.1	1111.4	1025.4	937.2	854.3	774.4	695.2	634.1	588.9	542.1	492.4
35°	1220.7	1102.3	998.3	898.8	807.5	724.6	641.6	574.5	515.0	457.7	407.9
37.5°	1225.2	1087.3	962.8	855.8	751.7	661.3	582.8	504.4	444.9	383.0	325.7
40°	1223.0	1058.6	918.4	788.7	679.3	591.9	515.7	444.1	378.5	323.5	268.4
42.5°	1213.9	1026.2	865.6	733.6	623.6	539.9	469.7	397.4	338.5	279.7	233.0
45°	1210.9	994.5	825.6	691.4	585.9	503.7	435.1	364.9	303.1	247.3	200.6
47.5°	1204.1	965.9	788.7	659.0	554.9	475.8	404.9	336.3	272.2	221.7	176.4
50°	1189.0	935.0	761.5	634.1	529.3	447.9	375.5	301.6	239.0	189.3	154.6
52.5°	1173.2	915.3	744.2	609.2	502.2	414.7	343.1	268.4	209.6	162.9	136.5
55°	1157.4	900.3	720.8	579.8	466.7	380.8	308.4	239.8	184.7	144.8	125.9
57.5°	1140.0	879.9	692.2	542.1	426.8	343.1	270.7	205.8	160.6	130.4	117.6
60°	1125.7	851.3	642.4	489.3	373.2	290.3	224.7	171.9	136.5	117.6	112.3
62.5°	1088.0	796.2	570.8	411.7	303.1	227.0	171.2	134.2	114.6	105.6	106.3
65°	996.8	673.3	453.2	321.2	212.6	152.3	122.1	102.5	93.5	93.5	95.8
67.5°	839.9	512.7	321.2	204.3	139.5	110.1	93.5	85.2	83.7	85.2	89.0
70°	594.9	332.5	201.3	133.5	104.8	89.0	80.7	77.7	76.2	77.7	79.2
72.5°	366.4	196.0	128.2	104.1	89.7	79.9	74.6	72.4	71.6	71.6	70.9
75°	199.8	131.2	102.5	90.5	81.4	73.9	68.6	64.8	64.1	64.8	63.3
77.5°	127.4	102.5	91.2	83.7	75.4	65.6	61.1	58.1	58.1	57.3	55.8
80°	99.5	91.2	83.7	76.2	63.3	55.8	51.3	50.5	49.8	49.0	49.0
82.5°	74.6	72.4	68.6	61.8	50.5	44.5	42.2	42.2	41.5	39.2	39.2
85°	43.0	42.2	45.2	40.0	33.9	29.4	29.4	30.2	30.9	30.2	27.9
87.5°	14.3	12.1	12.8	12.8	10.6	8.3	11.3	13.6	12.8	11.3	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: P141444

CATALOG NUMBER: EMM-F03-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	774.4	775.9	778.9	775.9	774.4	774.4	772.8	773.6	771.3	769.1	769.8
5°	793.2	791.7	793.2	790.9	786.4	785.7	782.6	782.6	779.6	776.6	775.1
7.5°	814.3	812.1	812.8	808.3	803.0	799.2	795.5	794.0	790.2	785.7	782.6
10°	830.9	828.6	827.1	821.9	815.1	811.3	806.0	803.0	799.2	793.2	790.2
12.5°	841.5	836.2	833.2	824.1	818.1	814.3	808.3	806.8	802.2	797.0	794.7
15°	839.2	827.1	818.1	807.5	799.2	794.0	788.7	787.2	784.9	782.6	778.1
17.5°	802.2	787.2	777.4	755.5	743.4	738.2	737.4	736.7	735.1	735.1	729.9
20°	751.0	733.6	718.6	697.4	681.6	676.3	662.0	658.2	653.7	658.2	653.7
22.5°	705.0	683.1	665.8	648.4	629.6	614.5	595.7	586.6	573.8	570.8	572.3
25°	656.0	628.8	607.0	586.6	566.2	545.1	527.8	515.0	506.7	495.4	484.8
27.5°	596.4	573.8	544.4	527.8	503.7	480.3	462.2	448.6	433.5	424.5	409.4
30°	536.1	501.4	472.0	448.6	422.2	410.9	393.6	379.3	365.7	355.9	343.1
32.5°	457.7	421.5	390.6	363.4	345.3	329.5	318.9	306.9	300.1	291.8	283.5
35°	374.7	329.5	292.5	280.5	260.1	260.9	255.6	249.6	244.3	236.8	236.0
37.5°	282.7	247.3	223.2	208.1	205.1	200.6	201.3	200.6	199.1	196.8	196.8
40°	223.9	192.3	176.4	173.4	173.4	172.7	171.9	171.9	171.9	170.4	169.6
42.5°	191.5	168.9	163.6	162.1	160.6	159.8	158.3	156.1	156.1	154.6	152.3
45°	168.9	156.1	154.6	153.1	153.1	150.8	148.5	147.0	146.3	145.5	144.0
47.5°	154.6	147.8	146.3	144.8	144.0	142.5	140.2	138.0	137.2	136.5	136.5
50°	138.7	134.2	134.2	134.2	131.9	130.4	128.2	126.7	126.7	125.9	125.2
52.5°	127.4	125.2	124.4	123.7	122.1	119.9	118.4	117.6	116.9	117.6	116.9
55°	122.1	120.6	119.9	118.4	116.9	114.6	113.1	110.8	110.1	111.6	111.6
57.5°	116.1	115.4	114.6	113.1	111.6	108.6	106.3	104.8	104.8	107.1	106.3
60°	113.9	113.1	112.3	111.6	109.3	105.6	101.8	100.3	100.3	102.5	102.5
62.5°	108.6	107.8	107.1	106.3	103.3	100.3	96.5	95.0	95.8	97.3	99.5
65°	98.8	99.5	98.8	98.8	96.5	94.2	92.0	90.5	89.7	90.5	92.7
67.5°	89.7	90.5	90.5	90.5	89.7	87.5	86.0	83.7	82.2	82.9	83.7
70°	81.4	82.2	82.9	82.9	81.4	79.2	76.9	74.6	73.9	74.6	74.6
72.5°	72.4	72.4	72.4	73.1	72.4	71.6	68.6	65.6	65.6	64.8	65.6
75°	63.3	63.3	63.3	63.3	61.8	61.8	60.3	57.3	56.5	57.3	58.1
77.5°	55.8	54.3	53.5	53.5	53.5	52.0	51.3	51.3	50.5	50.5	50.5
80°	46.0	44.5	43.0	42.2	43.0	43.0	44.5	44.5	43.7	43.7	43.7
82.5°	36.2	33.2	32.4	32.4	30.9	32.4	35.4	39.2	37.7	38.5	38.5
85°	26.4	23.4	21.9	21.9	20.4	23.4	27.1	30.2	28.7	30.2	29.4
87.5°	12.1	11.3	9.0	7.5	9.0	13.6	15.8	16.6	14.3	17.3	17.3
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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CATALOG NUMBER: EMM-F03-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1
2.5°	772.8	769.8	769.1	769.8	768.3	770.6	770.6	769.8	769.8	769.1	770.6
5°	777.4	773.6	771.3	771.3	769.8	772.1	770.6	769.8	769.1	769.1	769.1
7.5°	784.2	778.9	775.1	772.8	769.8	769.8	767.6	765.3	763.8	763.0	763.0
10°	790.2	782.6	776.6	771.3	766.8	763.0	759.3	754.0	752.5	751.0	751.7
12.5°	789.4	781.1	772.1	763.8	753.2	748.7	738.9	732.9	732.9	729.1	731.4
15°	772.8	758.5	745.7	732.1	719.3	710.3	698.2	691.4	687.6	686.9	692.2
17.5°	723.1	709.5	697.4	682.4	665.8	659.7	651.5	648.4	646.2	649.9	653.7
20°	656.0	638.6	627.3	618.3	618.3	616.8	613.0	607.7	603.2	602.4	607.0
22.5°	561.0	554.2	556.4	550.4	550.4	547.4	553.4	543.6	548.9	544.4	546.6
25°	481.8	478.8	477.3	476.5	476.5	481.8	481.0	482.6	477.3	480.3	479.5
27.5°	410.2	406.4	401.1	404.1	407.2	410.9	412.4	413.2	417.7	409.4	412.4
30°	341.6	335.5	339.3	336.3	337.8	337.0	337.0	337.0	340.1	346.1	341.6
32.5°	279.7	276.7	280.5	275.2	276.0	276.0	274.5	272.2	273.7	266.9	272.2
35°	231.5	227.7	230.7	228.5	226.2	220.2	217.9	214.1	214.9	213.4	212.6
37.5°	193.8	193.0	190.8	190.8	189.3	188.5	184.7	185.5	186.2	187.7	187.7
40°	167.4	166.6	165.9	167.4	168.1	168.9	170.4	171.9	174.2	176.4	178.7
42.5°	152.3	152.3	152.3	155.3	157.6	161.4	163.6	166.6	169.6	173.4	176.4
45°	143.3	142.5	144.0	146.3	150.0	153.8	157.6	162.1	166.6	170.4	172.7
47.5°	135.7	135.0	136.5	138.7	142.5	148.5	153.8	159.1	164.4	168.1	169.6
50°	125.9	125.9	126.7	128.9	132.7	138.0	143.3	149.3	154.6	157.6	159.1
52.5°	118.4	119.1	119.1	121.4	125.2	129.7	135.0	140.2	144.0	146.3	149.3
55°	110.8	112.3	112.3	114.6	118.4	123.7	130.4	135.0	139.5	142.5	144.8
57.5°	105.6	106.3	106.3	109.3	113.9	118.4	125.2	131.2	136.5	140.2	143.3
60°	101.0	101.8	101.0	104.8	108.6	113.9	119.9	126.7	134.2	139.5	141.8
62.5°	97.3	97.3	96.5	99.5	101.8	104.8	110.1	117.6	124.4	128.9	131.2
65°	92.7	92.7	91.2	94.2	94.2	98.8	102.5	109.3	114.6	119.9	121.4
67.5°	83.7	85.2	84.4	86.7	89.7	92.7	97.3	102.5	107.8	111.6	113.9
70°	74.6	75.4	77.7	79.2	82.2	83.7	87.5	91.2	96.5	98.8	101.0
72.5°	66.4	67.1	68.6	70.1	73.1	74.6	77.7	80.7	85.2	87.5	89.7
75°	58.1	58.8	59.6	61.1	62.6	64.1	65.6	68.6	71.6	74.6	76.9
77.5°	49.8	50.5	52.8	52.0	53.5	54.3	56.5	58.1	59.6	62.6	65.6
80°	43.7	43.0	44.5	45.2	46.7	46.7	48.3	48.3	50.5	50.5	51.3
82.5°	36.9	36.2	37.7	40.0	40.7	40.7	42.2	39.2	38.5	39.2	41.5
85°	27.9	28.7	29.4	32.4	33.2	33.2	34.7	32.4	29.4	29.4	30.9
87.5°	15.8	12.1	17.3	20.4	20.4	21.1	22.6	21.9	21.1	16.6	17.3
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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 CATALOG NUMBER: EMM-F03-LED-E1-SLL-7030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	769.1	0°
2.5°	769.8	770.6	771.3	772.1	772.8	772.1	773.6	772.1	772.8	771.3	770.6	2.5°
5°	769.1	769.8	769.8	771.3	772.1	769.8	771.3	769.1	769.1	767.6	765.3	5°
7.5°	763.8	765.3	765.3	766.8	766.8	764.5	764.5	760.0	758.5	753.2	749.5	7.5°
10°	753.2	755.5	757.0	760.0	761.5	757.8	755.5	750.2	744.2	738.2	732.1	10°
12.5°	735.1	735.9	741.2	745.7	748.0	750.2	748.7	748.0	741.9	738.2	735.9	12.5°
15°	693.7	699.7	705.0	715.5	723.1	731.4	737.4	744.2	747.2	751.0	752.5	15°
17.5°	657.5	664.3	668.0	677.1	684.6	697.4	713.3	730.6	742.7	757.8	772.1	17.5°
20°	607.0	618.3	621.3	635.6	645.4	662.0	679.3	701.2	725.3	748.7	774.4	20°
22.5°	550.4	555.7	561.7	576.8	588.9	610.0	636.4	666.5	694.4	726.8	763.8	22.5°
25°	481.8	488.6	494.6	511.2	528.5	548.2	579.8	616.8	652.2	695.2	743.4	25°
27.5°	413.9	419.2	429.8	441.8	461.4	482.6	521.8	562.5	603.2	655.2	712.5	27.5°
30°	343.1	348.3	353.6	367.9	388.3	413.2	448.6	496.9	545.1	600.9	668.8	30°
32.5°	275.2	276.7	287.3	297.8	315.2	336.3	374.7	421.5	473.5	541.4	608.5	32.5°
35°	214.9	223.9	228.5	242.8	253.3	275.2	307.6	350.6	404.9	473.5	545.9	35°
37.5°	190.8	193.8	199.8	210.4	224.7	244.3	266.9	300.1	346.8	404.9	472.8	37.5°
40°	181.7	184.7	189.3	197.5	211.1	229.2	248.1	274.5	310.6	356.6	417.7	40°
42.5°	178.7	179.5	181.0	188.5	202.1	222.4	245.0	269.9	297.8	334.8	383.0	42.5°
45°	174.9	174.9	175.7	181.0	193.0	214.1	242.8	274.5	306.1	339.3	380.0	45°
47.5°	171.9	172.7	171.9	174.2	183.2	203.6	235.2	273.7	315.9	358.9	403.4	47.5°
50°	159.8	159.8	160.6	161.4	168.1	187.7	218.7	260.9	312.9	371.0	432.0	50°
52.5°	150.0	151.6	151.6	153.1	157.6	173.4	204.3	248.8	305.4	373.2	455.4	52.5°
55°	147.0	148.5	149.3	149.3	152.3	165.9	195.3	237.5	297.1	371.0	464.5	55°
57.5°	144.8	146.3	147.0	146.3	148.5	159.8	187.0	228.5	288.0	365.7	468.2	57.5°
60°	142.5	143.3	141.8	140.2	141.0	150.8	174.9	215.6	277.5	358.1	466.7	60°
62.5°	131.9	132.7	131.2	129.7	128.2	135.7	157.6	197.5	255.6	340.8	454.7	62.5°
65°	122.9	122.9	122.9	121.4	119.9	124.4	140.2	174.2	224.7	309.9	426.8	65°
67.5°	115.4	114.6	114.6	113.9	112.3	113.9	123.7	147.0	186.2	260.9	376.2	67.5°
70°	103.3	102.5	103.3	102.5	101.0	101.0	105.6	118.4	144.8	191.5	292.5	70°
72.5°	91.2	92.0	93.5	93.5	93.5	94.2	94.2	98.0	112.3	137.2	199.1	72.5°
75°	78.4	79.2	81.4	84.4	82.9	83.7	83.7	86.0	93.5	108.6	139.5	75°
77.5°	66.4	68.6	71.6	72.4	70.1	70.1	71.6	75.4	82.2	91.2	106.3	77.5°
80°	54.3	57.3	58.1	59.6	60.3	60.3	61.8	64.8	71.6	82.9	95.0	80°
82.5°	43.0	45.2	47.5	49.8	51.3	53.5	54.3	55.8	62.6	73.9	87.5	82.5°
85°	32.4	34.7	37.7	40.0	41.5	43.7	43.0	43.7	47.5	56.5	66.4	85°
87.5°	19.6	19.6	21.9	22.6	23.4	23.4	24.9	21.9	23.4	30.2	36.2	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°
769.1	769.1	769.1	769.1	769.1	769.1	769.1
771.3	770.6	769.8	770.6	772.1	772.1	769.8
766.1	763.8	762.3	762.3	762.3	761.5	760.0
748.0	744.2	741.9	740.4	739.7	739.7	736.7
728.4	726.1	721.6	720.1	720.8	723.1	722.3
732.9	726.1	723.8	723.8	723.1	726.8	726.1
757.8	757.8	754.7	754.0	752.5	757.0	757.0
784.2	790.9	794.0	790.9	791.7	792.4	798.5
798.5	818.1	828.6	836.9	837.7	842.2	841.5
800.7	836.2	864.1	882.2	898.8	907.1	905.5
789.4	838.4	887.5	933.4	968.1	987.0	1002.8
774.4	832.4	895.7	960.6	1017.1	1067.7	1099.3
738.9	812.8	894.2	977.2	1057.9	1130.2	1189.0
689.2	774.4	871.6	980.9	1094.0	1194.3	1280.3
622.8	714.0	832.4	966.6	1115.9	1265.2	1394.9
551.2	651.5	781.1	942.5	1127.2	1321.8	1499.7
488.6	587.4	729.1	911.6	1125.7	1358.7	1576.6
447.9	540.6	683.9	882.2	1118.2	1379.8	1636.9
434.3	518.0	653.7	858.8	1113.6	1394.9	1678.4
452.4	524.8	646.9	848.2	1112.1	1412.2	1714.6
494.6	562.5	672.6	865.6	1125.7	1429.6	1750.8
534.6	615.3	728.4	915.3	1176.2	1480.1	1800.5
567.0	672.6	788.7	980.9	1248.6	1558.5	1875.2
585.1	717.0	867.1	1072.2	1347.4	1673.9	1997.3
592.6	748.0	934.2	1167.9	1471.8	1805.8	2151.9
589.6	762.3	982.5	1255.4	1584.1	1950.6	2327.6
570.8	762.3	1012.6	1325.5	1678.4	2065.9	2482.1
525.5	735.9	1015.6	1366.2	1750.8	2163.2	2608.8
442.6	659.7	965.1	1361.7	1773.4	2194.1	2675.2
309.9	492.4	805.3	1230.5	1676.9	2121.0	2602.0
192.3	306.9	576.8	951.5	1395.6	1799.8	2315.5
135.0	186.2	330.2	602.4	960.6	1341.4	1728.9
112.3	137.2	188.5	331.8	577.6	826.4	1087.3
97.3	110.8	131.2	189.3	294.1	440.3	605.5
72.4	80.7	90.5	124.4	185.5	272.2	413.9
29.4	33.2	36.9	49.8	113.9	156.8	168.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)