

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: P141405

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141405
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
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6477.6 lumens
Efficiency: N/A
Efficacy: 82.7 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

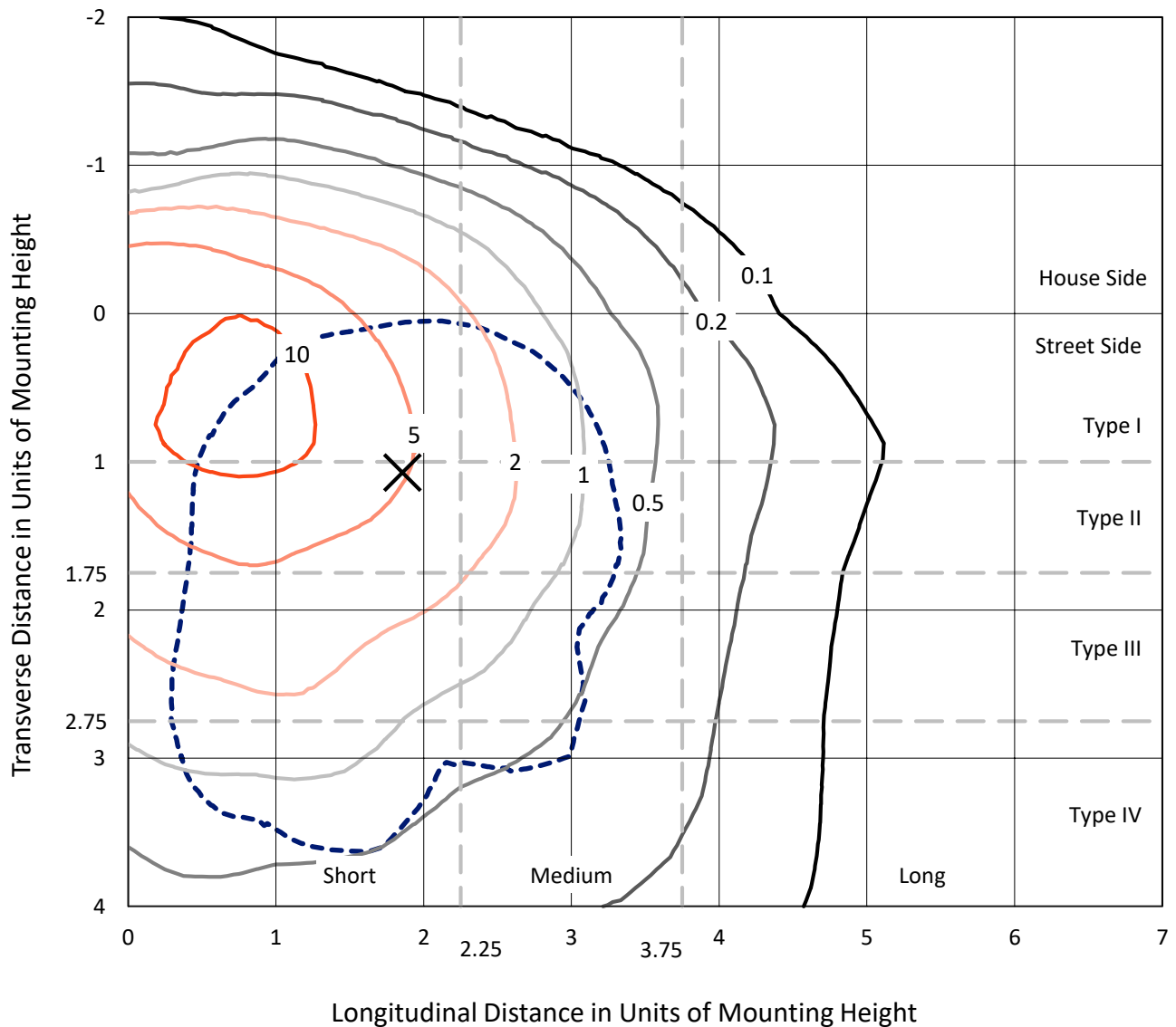
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

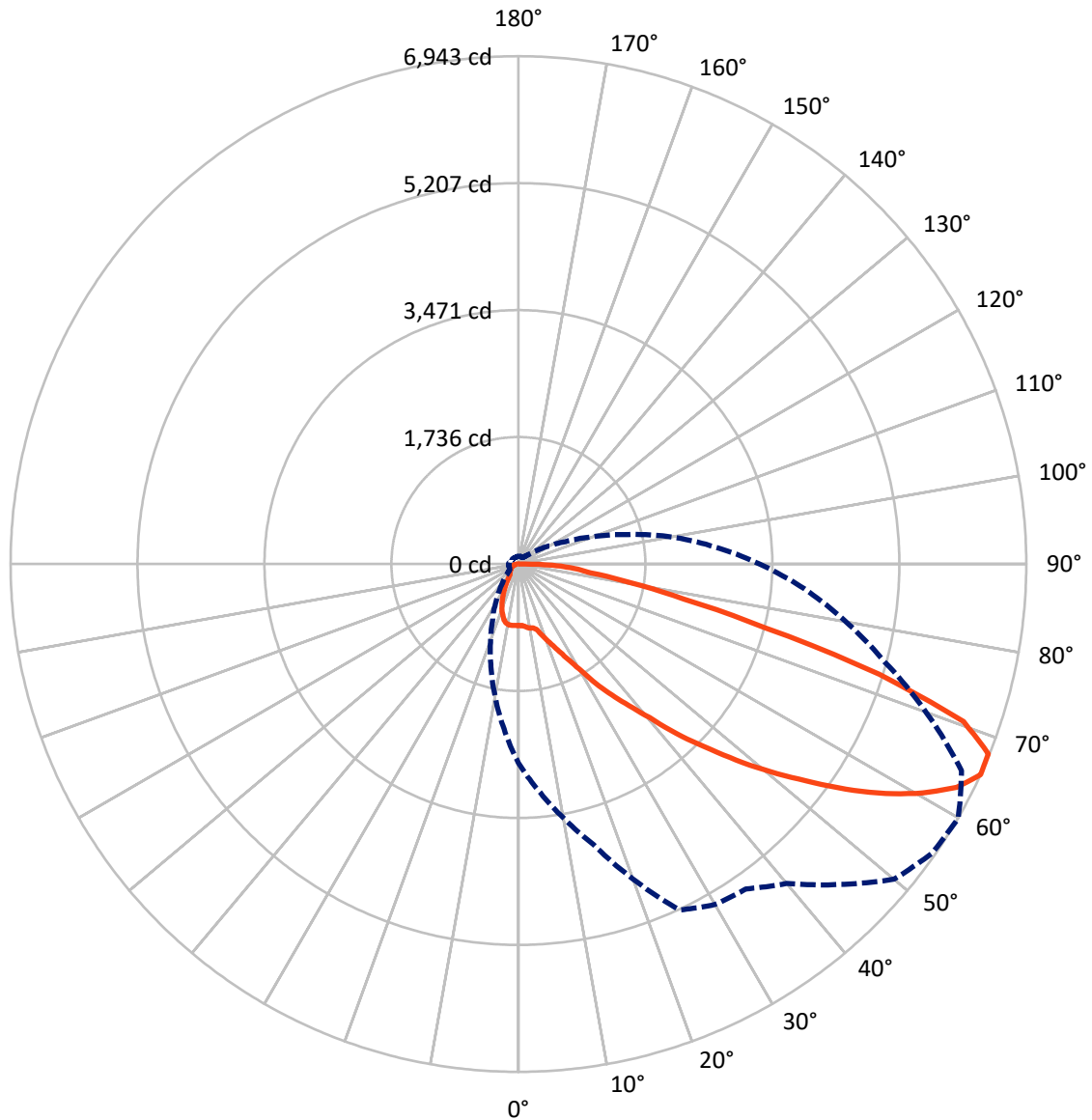
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 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
House Side	Lumens	1201.4	0.0	1201.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	5276.1	0.0	5276.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	6477.6	0.0	6477.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.3
10°-20°	244.7	3.8
20°-30°	406.5	6.3
30°-40°	594.2	9.2
40°-50°	903.9	14.0
50°-60°	1299.3	20.1
60°-70°	1597.5	24.7
70°-80°	1068.7	16.5
80°-90°	281.2	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°	6477.6	100.0
0°-180°	6477.6	100.0

Coefficient of Utilization



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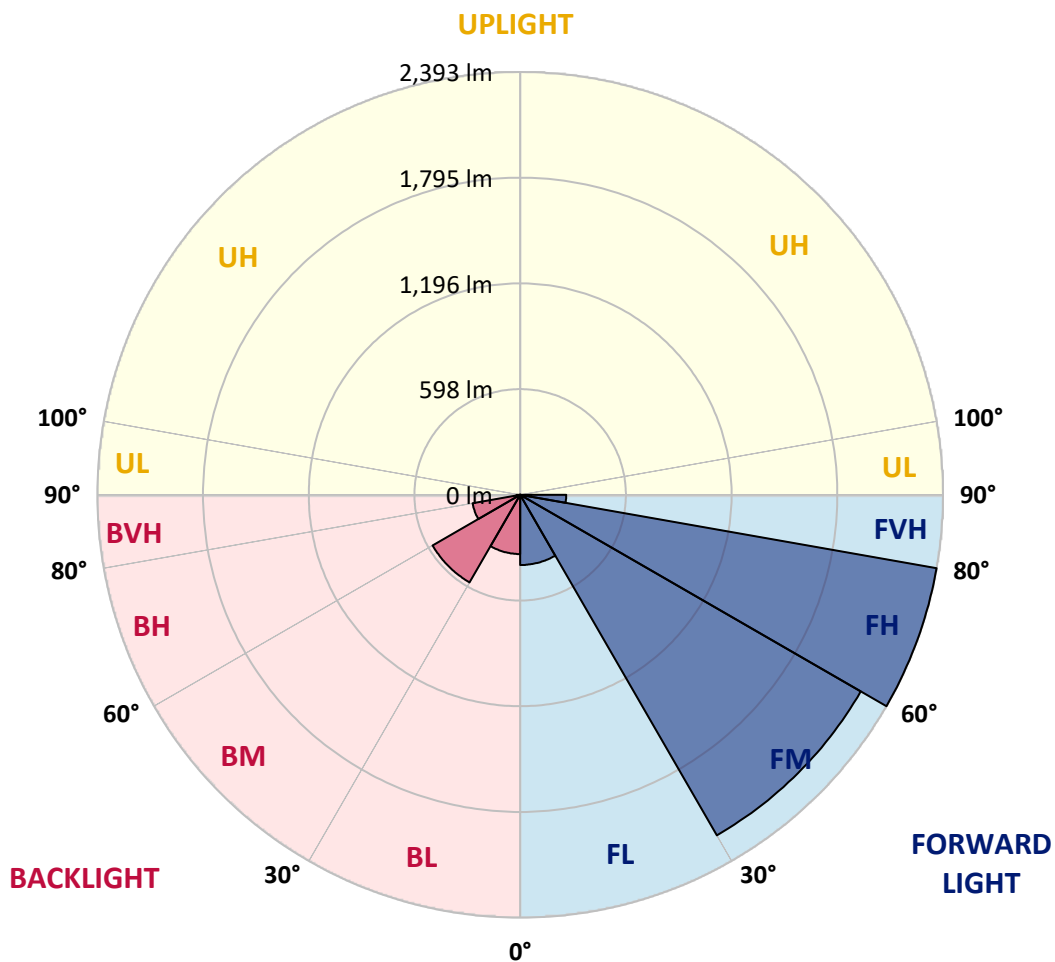
CATALOG NUMBER: ECM-F03-LED-E1-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.3	6.1			
FM	(30°-60°)	2225.3	34.4			
FH	(60°-80°)	2392.8	36.9			G2/5000
FVH	(80°-90°)	260.7	4.0			G3/500
BL	(0°-30°)	335.3	5.2	B1/500		
BM	(30°-60°)	572.3	8.8	B1/1000		
BH	(60°-80°)	273.4	4.2	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	842.9	843.7	843.7	842.9	842.0	842.9	841.2	842.9	842.0	841.2	842.0
5°	832.1	833.0	834.6	834.6	836.3	839.6	840.4	844.5	847.0	847.8	851.1
7.5°	806.5	810.7	813.1	816.4	821.4	829.7	835.4	845.3	852.8	859.4	868.5
10°	790.9	795.8	800.8	808.2	815.6	826.4	836.3	848.6	858.5	868.5	879.2
12.5°	795.0	800.8	807.4	813.1	824.7	834.6	847.0	861.8	866.8	876.7	885.8
15°	828.8	833.8	838.7	845.3	856.1	867.6	884.1	900.6	903.9	914.7	924.6
17.5°	874.2	875.1	883.3	894.9	904.8	923.8	943.6	965.9	979.9	986.5	992.3
20°	921.3	923.8	937.0	947.7	970.0	994.8	1023.7	1056.7	1068.2	1097.1	1107.9
22.5°	991.5	990.6	1006.3	1021.2	1045.9	1072.4	1114.5	1159.9	1186.3	1208.6	1216.8
25°	1097.9	1100.4	1097.9	1119.4	1145.0	1187.9	1230.0	1275.4	1291.1	1329.9	1348.1
27.5°	1203.6	1222.6	1248.2	1254.8	1286.2	1335.7	1368.7	1417.4	1455.4	1466.1	1495.9
30°	1301.9	1341.5	1383.6	1419.1	1475.2	1535.5	1585.0	1640.3	1642.8	1662.6	1670.9
32.5°	1401.7	1463.7	1525.6	1571.0	1625.5	1705.5	1797.2	1887.1	1945.8	2006.0	1975.5
35°	1527.2	1623.8	1710.5	1780.7	1826.9	1901.2	2006.9	2153.0	2247.1	2318.9	2360.2
37.5°	1642.0	1788.1	1921.0	2020.9	2134.0	2186.8	2256.2	2361.8	2470.0	2536.8	2571.5
40°	1726.2	1925.9	2114.2	2258.6	2402.3	2528.6	2616.1	2701.9	2848.1	2931.4	2938.0
42.5°	1792.2	2046.5	2273.5	2480.7	2692.0	2868.7	2974.4	3083.3	3269.1	3365.7	3358.2
45°	1837.6	2136.5	2418.0	2673.0	2929.0	3159.3	3363.2	3525.0	3714.9	3899.0	3861.8
47.5°	1877.2	2210.8	2532.7	2820.8	3127.9	3415.2	3669.5	3897.3	4148.3	4396.7	4411.6
50°	1916.9	2271.0	2636.7	2968.6	3314.5	3675.2	3982.3	4275.4	4589.1	4905.3	4977.9
52.5°	1971.4	2338.7	2733.3	3103.1	3505.2	3885.7	4228.3	4593.2	4981.2	5286.7	5493.0
55°	2053.1	2432.8	2853.0	3237.7	3676.1	4095.4	4474.3	4895.4	5252.0	5629.3	5923.1
57.5°	2186.8	2558.3	2991.7	3384.7	3841.2	4285.3	4679.1	5120.7	5460.8	5879.4	6248.4
60°	2356.0	2729.2	3148.6	3558.8	4035.2	4551.9	4949.0	5275.9	5616.9	6040.4	6484.5
62.5°	2548.4	2922.4	3340.1	3763.6	4305.1	4864.8	5205.8	5392.3	5689.5	6151.0	6637.2
65°	2717.6	3103.1	3520.0	3969.1	4581.7	5218.1	5375.0	5422.0	5700.2	6195.6	6703.3
67.5°	2856.3	3299.6	3688.4	4135.9	4873.1	5442.7	5378.3	5284.2	5554.1	6087.4	6577.0
70°	2929.0	3387.1	3768.5	4150.7	4935.0	5474.1	5248.7	4992.8	5115.8	5637.5	6047.0
72.5°	2848.9	3318.6	3619.9	3857.7	4564.3	5087.7	4800.4	4317.5	4429.8	4935.0	5040.7
75°	2535.2	3102.3	3278.2	3269.9	3650.5	3921.2	3713.2	3405.3	3691.7	3902.3	3794.1
77.5°	1892.9	2541.0	2639.2	2458.4	2539.3	2767.2	2570.7	2810.1	3157.6	3252.6	3047.8
80°	1190.4	1862.4	1873.1	1647.7	1604.8	1694.0	1947.4	2456.8	2788.6	2768.8	2498.0
82.5°	662.9	1207.7	1322.5	1116.1	1063.3	1282.0	1734.4	2005.2	1961.4	1944.9	1592.4
85°	453.2	824.7	1008.0	966.7	1069.1	1278.7	1422.4	1271.3	1224.3	1042.6	846.2
87.5°	184.1	371.5	624.9	718.2	762.0	935.3	818.9	667.0	513.5	487.1	418.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	839.6	841.2	841.2	842.0	842.9	843.7	843.7	843.7	844.5	845.3	844.5
5°	851.9	854.4	856.1	856.1	857.7	859.4	861.0	860.2	862.7	864.3	865.2
7.5°	871.8	876.7	880.8	884.1	885.8	885.8	885.8	883.3	885.8	886.6	887.4
10°	885.8	891.6	892.4	895.7	894.9	894.0	892.4	890.7	891.6	893.2	895.7
12.5°	889.9	895.7	897.3	899.8	899.0	898.2	894.9	894.9	894.0	896.5	899.0
15°	923.8	928.7	937.0	929.5	930.4	923.8	918.0	914.7	913.0	914.7	916.3
17.5°	1001.4	1009.6	1006.3	994.8	993.9	979.9	977.4	960.9	960.9	960.9	956.0
20°	1107.9	1107.0	1101.3	1089.7	1064.9	1060.0	1041.8	1028.6	1016.2	1013.7	1008.0
22.5°	1224.3	1211.9	1208.6	1184.6	1168.9	1139.2	1112.0	1102.1	1090.5	1088.0	1087.2
25°	1337.4	1342.3	1318.4	1306.8	1267.2	1240.8	1225.1	1200.3	1200.3	1197.0	1192.9
27.5°	1479.3	1495.9	1469.4	1452.9	1415.8	1378.6	1351.4	1336.5	1320.8	1310.1	1280.4
30°	1679.9	1690.7	1672.5	1638.7	1592.4	1526.4	1489.2	1472.7	1443.8	1407.5	1358.8
32.5°	1962.3	1947.4	1885.5	1826.1	1765.8	1703.1	1658.5	1628.8	1584.2	1511.5	1419.1
35°	2328.0	2200.0	2122.4	2040.7	1971.4	1901.2	1867.3	1813.7	1712.1	1594.1	1470.3
37.5°	2507.9	2451.0	2361.8	2300.7	2218.2	2148.0	2071.2	1979.6	1848.4	1679.1	1507.4
40°	2868.7	2761.4	2692.0	2622.7	2521.2	2425.4	2321.4	2173.6	1962.3	1751.8	1536.3
42.5°	3247.6	3168.4	3042.9	2950.4	2874.5	2716.0	2550.9	2344.5	2078.7	1817.8	1562.7
45°	3741.3	3559.7	3404.5	3326.0	3176.6	2983.4	2791.1	2496.4	2186.0	1887.1	1592.4
47.5°	4237.4	4003.8	3843.6	3697.5	3538.2	3279.0	2979.3	2628.5	2268.5	1944.9	1617.2
50°	4769.9	4462.0	4277.0	4102.0	3839.5	3525.8	3144.4	2737.4	2354.4	1999.4	1639.5
52.5°	5311.4	4922.6	4658.4	4454.5	4129.3	3741.3	3293.8	2850.5	2446.0	2052.3	1657.7
55°	5798.5	5433.6	5092.7	4778.1	4386.8	3936.1	3430.9	2952.1	2528.6	2107.6	1669.2
57.5°	6240.1	5922.3	5515.3	5093.5	4623.8	4116.9	3557.2	3061.9	2606.2	2148.0	1668.4
60°	6543.1	6357.4	5934.7	5420.4	4871.4	4282.8	3709.1	3184.0	2674.7	2176.9	1661.8
62.5°	6761.0	6723.9	6354.9	5734.9	5073.7	4432.2	3856.0	3285.6	2724.2	2180.2	1633.7
65°	6897.3	6942.7	6683.4	5934.7	5186.8	4546.2	3928.7	3294.7	2688.7	2125.7	1559.4
67.5°	6811.4	6928.6	6681.8	5848.0	5078.6	4439.7	3822.2	3142.8	2499.7	1956.5	1392.7
70°	6278.9	6454.8	6211.2	5273.5	4549.5	4028.6	3430.1	2699.5	2150.5	1611.4	1100.4
72.5°	4925.1	5157.1	4944.1	4301.0	3766.0	3330.2	2886.0	2119.9	1639.5	1183.8	739.7
75°	3397.9	3487.0	3359.9	2915.8	2751.5	2581.4	2166.2	1424.9	1083.1	730.6	435.1
77.5°	2635.9	2313.1	2069.6	1888.0	1884.7	1853.3	1417.4	852.8	648.0	402.0	241.9
80°	1982.1	1556.1	1284.5	1123.5	1168.1	1306.0	826.4	437.5	335.2	222.1	148.6
82.5°	1304.3	993.1	792.5	701.7	709.1	818.9	415.2	241.1	165.1	126.3	96.6
85°	795.0	771.9	688.5	624.9	576.2	563.0	322.8	184.9	91.6	65.2	49.5
87.5°	388.0	459.8	561.4	568.8	488.7	414.4	167.6	52.8	38.8	20.6	14.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	845.3	849.5	847.8	847.0	847.0	851.1	851.1	849.5	849.5	850.3	850.3
5°	865.2	869.3	867.6	868.5	870.1	870.9	873.4	870.9	869.3	870.9	870.1
7.5°	888.3	892.4	891.6	893.2	894.9	896.5	898.2	897.3	895.7	895.7	894.9
10°	898.2	906.4	909.7	913.0	917.2	918.8	921.3	921.3	918.0	918.0	913.9
12.5°	904.8	911.4	919.6	924.6	932.0	937.8	940.3	941.1	938.6	935.3	931.2
15°	918.8	923.8	932.0	937.0	946.1	953.5	958.4	957.6	954.3	945.2	932.8
17.5°	953.5	952.7	956.0	959.3	961.7	965.9	964.2	956.8	941.1	924.6	907.3
20°	1005.5	1004.7	999.7	992.3	983.2	971.6	953.5	931.2	904.8	875.1	848.6
22.5°	1079.0	1071.5	1064.9	1045.1	1013.7	974.9	927.9	884.1	852.8	823.9	795.0
25°	1176.4	1158.2	1126.0	1079.8	1030.3	972.5	903.9	845.3	805.7	771.9	743.0
27.5°	1237.5	1195.4	1141.7	1078.1	1012.1	937.8	861.8	804.1	759.5	722.3	689.3
30°	1289.5	1213.5	1138.4	1057.5	974.1	897.3	817.3	755.4	703.3	662.1	622.4
32.5°	1318.4	1216.8	1122.7	1026.1	935.3	847.8	761.1	694.3	644.7	593.6	539.1
35°	1336.5	1206.9	1093.0	984.0	884.1	793.3	702.5	629.0	563.8	501.1	446.6
37.5°	1341.5	1190.4	1054.2	937.0	823.0	724.0	638.1	552.3	487.1	419.4	356.6
40°	1339.0	1159.0	1005.5	863.5	743.8	648.0	564.7	486.2	414.4	354.2	293.9
42.5°	1329.1	1123.5	947.7	803.2	682.7	591.1	514.3	435.1	370.7	306.3	255.1
45°	1325.8	1088.9	903.9	757.0	641.4	551.5	476.3	399.6	331.9	270.8	219.6
47.5°	1318.4	1057.5	863.5	721.5	607.6	520.9	443.3	368.2	298.0	242.7	193.2
50°	1301.9	1023.7	833.8	694.3	579.5	490.4	411.1	330.2	261.7	207.2	169.2
52.5°	1284.5	1002.2	814.8	667.0	549.8	454.0	375.6	293.9	229.5	178.3	149.4
55°	1267.2	985.7	789.2	634.8	511.0	416.9	337.6	262.5	202.3	158.5	137.9
57.5°	1248.2	963.4	757.8	593.6	467.2	375.6	296.4	225.4	175.8	142.8	128.8
60°	1232.5	932.0	703.3	535.8	408.6	317.8	246.0	188.2	149.4	128.8	123.0
62.5°	1191.2	871.8	624.9	450.7	331.9	248.5	187.4	146.9	125.5	115.6	116.4
65°	1091.3	737.2	496.1	351.7	232.8	166.8	133.7	112.3	102.4	102.4	104.8
67.5°	919.6	561.4	351.7	223.7	152.7	120.5	102.4	93.3	91.6	93.3	97.4
70°	651.3	364.1	220.4	146.1	114.7	97.4	88.3	85.0	83.4	85.0	86.7
72.5°	401.2	214.6	140.3	113.9	98.2	87.5	81.7	79.3	78.4	78.4	77.6
75°	218.8	143.6	112.3	99.1	89.2	80.9	75.1	71.0	70.2	71.0	69.3
77.5°	139.5	112.3	99.9	91.6	82.6	71.8	66.9	63.6	63.6	62.7	61.1
80°	109.0	99.9	91.6	83.4	69.3	61.1	56.1	55.3	54.5	53.7	53.7
82.5°	81.7	79.3	75.1	67.7	55.3	48.7	46.2	46.2	45.4	42.9	42.9
85°	47.1	46.2	49.5	43.8	37.1	32.2	32.2	33.0	33.8	33.0	30.5
87.5°	15.7	13.2	14.0	14.0	11.6	9.1	12.4	14.9	14.0	12.4	14.9
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: P141405
 CATALOG NUMBER: ECM-F03-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	847.8	849.5	852.8	849.5	847.8	847.8	846.2	847.0	844.5	842.0	842.9
5°	868.5	866.8	868.5	866.0	861.0	860.2	856.9	856.9	853.6	850.3	848.6
7.5°	891.6	889.1	889.9	885.0	879.2	875.1	870.9	869.3	865.2	860.2	856.9
10°	909.7	907.3	905.6	899.8	892.4	888.3	882.5	879.2	875.1	868.5	865.2
12.5°	921.3	915.5	912.2	902.3	895.7	891.6	885.0	883.3	878.4	872.6	870.1
15°	918.8	905.6	895.7	884.1	875.1	869.3	863.5	861.8	859.4	856.9	851.9
17.5°	878.4	861.8	851.1	827.2	814.0	808.2	807.4	806.5	804.9	804.9	799.1
20°	822.2	803.2	786.7	763.6	746.3	740.5	724.8	720.7	715.7	720.7	715.7
22.5°	771.9	747.9	728.9	710.0	689.3	672.8	652.2	642.3	628.2	624.9	626.6
25°	718.2	688.5	664.5	642.3	620.0	596.9	577.9	563.8	554.8	542.4	530.8
27.5°	653.0	628.2	596.0	577.9	551.5	525.9	506.0	491.2	474.7	464.8	448.3
30°	586.9	549.0	516.8	491.2	462.3	449.9	430.9	415.2	400.4	389.6	375.6
32.5°	501.1	461.5	427.6	397.9	378.1	360.8	349.2	336.0	328.6	319.5	310.4
35°	410.3	360.8	320.3	307.1	284.8	285.6	279.9	273.2	267.5	259.2	258.4
37.5°	309.6	270.8	244.4	227.8	224.5	219.6	220.4	219.6	217.9	215.5	215.5
40°	245.2	210.5	193.2	189.9	189.9	189.0	188.2	188.2	188.2	186.6	185.7
42.5°	209.7	184.9	179.1	177.5	175.8	175.0	173.4	170.9	170.9	169.2	166.8
45°	184.9	170.9	169.2	167.6	167.6	165.1	162.6	161.0	160.2	159.3	157.7
47.5°	169.2	161.8	160.2	158.5	157.7	156.0	153.5	151.1	150.2	149.4	149.4
50°	151.9	146.9	146.9	146.9	144.5	142.8	140.3	138.7	138.7	137.9	137.0
52.5°	139.5	137.0	136.2	135.4	133.7	131.3	129.6	128.8	128.0	128.8	128.0
55°	133.7	132.1	131.3	129.6	128.0	125.5	123.8	121.4	120.5	122.2	122.2
57.5°	127.1	126.3	125.5	123.8	122.2	118.9	116.4	114.7	114.7	117.2	116.4
60°	124.7	123.8	123.0	122.2	119.7	115.6	111.4	109.8	109.8	112.3	112.3
62.5°	118.9	118.1	117.2	116.4	113.1	109.8	105.7	104.0	104.8	106.5	109.0
65°	108.1	109.0	108.1	108.1	105.7	103.2	100.7	99.1	98.2	99.1	101.5
67.5°	98.2	99.1	99.1	99.1	98.2	95.8	94.1	91.6	90.0	90.8	91.6
70°	89.2	90.0	90.8	90.8	89.2	86.7	84.2	81.7	80.9	81.7	81.7
72.5°	79.3	79.3	79.3	80.1	79.3	78.4	75.1	71.8	71.8	71.0	71.8
75°	69.3	69.3	69.3	69.3	67.7	67.7	66.0	62.7	61.9	62.7	63.6
77.5°	61.1	59.4	58.6	58.6	58.6	57.0	56.1	56.1	55.3	55.3	55.3
80°	50.4	48.7	47.1	46.2	47.1	47.1	48.7	48.7	47.9	47.9	47.9
82.5°	39.6	36.3	35.5	35.5	33.8	35.5	38.8	42.9	41.3	42.1	42.1
85°	28.9	25.6	23.9	23.9	22.3	25.6	29.7	33.0	31.4	33.0	32.2
87.5°	13.2	12.4	9.9	8.3	9.9	14.9	17.3	18.2	15.7	19.0	19.0
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°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0
2.5°	846.2	842.9	842.0	842.9	841.2	843.7	843.7	842.9	842.9	842.0	843.7
5°	851.1	847.0	844.5	844.5	842.9	845.3	843.7	842.9	842.0	842.0	842.0
7.5°	858.5	852.8	848.6	846.2	842.9	842.9	840.4	837.9	836.3	835.4	835.4
10°	865.2	856.9	850.3	844.5	839.6	835.4	831.3	825.5	823.9	822.2	823.0
12.5°	864.3	855.2	845.3	836.3	824.7	819.7	809.0	802.4	802.4	798.3	800.8
15°	846.2	830.5	816.4	801.6	787.6	777.6	764.4	757.0	752.9	752.1	757.8
17.5°	791.7	776.8	763.6	747.1	728.9	722.3	713.3	710.0	707.5	711.6	715.7
20°	718.2	699.2	686.8	676.9	676.9	675.3	671.2	665.4	660.4	659.6	664.5
22.5°	614.2	606.8	609.2	602.6	602.6	599.3	605.9	595.2	601.0	596.0	598.5
25°	527.5	524.2	522.6	521.7	521.7	527.5	526.7	528.3	522.6	525.9	525.0
27.5°	449.1	445.0	439.2	442.5	445.8	449.9	451.6	452.4	457.3	448.3	451.6
30°	374.0	367.4	371.5	368.2	369.8	369.0	369.0	369.0	372.3	378.9	374.0
32.5°	306.3	303.0	307.1	301.3	302.1	302.1	300.5	298.0	299.7	292.2	298.0
35°	253.4	249.3	252.6	250.1	247.7	241.1	238.6	234.4	235.3	233.6	232.8
37.5°	212.2	211.3	208.9	208.9	207.2	206.4	202.3	203.1	203.9	205.6	205.6
40°	183.3	182.4	181.6	183.3	184.1	184.9	186.6	188.2	190.7	193.2	195.6
42.5°	166.8	166.8	166.8	170.1	172.5	176.7	179.1	182.4	185.7	189.9	193.2
45°	156.8	156.0	157.7	160.2	164.3	168.4	172.5	177.5	182.4	186.6	189.0
47.5°	148.6	147.8	149.4	151.9	156.0	162.6	168.4	174.2	180.0	184.1	185.7
50°	137.9	137.9	138.7	141.2	145.3	151.1	156.8	163.5	169.2	172.5	174.2
52.5°	129.6	130.4	130.4	132.9	137.0	142.0	147.8	153.5	157.7	160.2	163.5
55°	121.4	123.0	123.0	125.5	129.6	135.4	142.8	147.8	152.7	156.0	158.5
57.5°	115.6	116.4	116.4	119.7	124.7	129.6	137.0	143.6	149.4	153.5	156.8
60°	110.6	111.4	110.6	114.7	118.9	124.7	131.3	138.7	146.9	152.7	155.2
62.5°	106.5	106.5	105.7	109.0	111.4	114.7	120.5	128.8	136.2	141.2	143.6
65°	101.5	101.5	99.9	103.2	103.2	108.1	112.3	119.7	125.5	131.3	132.9
67.5°	91.6	93.3	92.5	94.9	98.2	101.5	106.5	112.3	118.1	122.2	124.7
70°	81.7	82.6	85.0	86.7	90.0	91.6	95.8	99.9	105.7	108.1	110.6
72.5°	72.6	73.5	75.1	76.8	80.1	81.7	85.0	88.3	93.3	95.8	98.2
75°	63.6	64.4	65.2	66.9	68.5	70.2	71.8	75.1	78.4	81.7	84.2
77.5°	54.5	55.3	57.8	57.0	58.6	59.4	61.9	63.6	65.2	68.5	71.8
80°	47.9	47.1	48.7	49.5	51.2	51.2	52.8	52.8	55.3	55.3	56.1
82.5°	40.5	39.6	41.3	43.8	44.6	44.6	46.2	42.9	42.1	42.9	45.4
85°	30.5	31.4	32.2	35.5	36.3	36.3	38.0	35.5	32.2	32.2	33.8
87.5°	17.3	13.2	19.0	22.3	22.3	23.1	24.8	23.9	23.1	18.2	19.0
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°	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	842.0	0°
2.5°	842.9	843.7	844.5	845.3	846.2	845.3	847.0	845.3	846.2	844.5	843.7	2.5°
5°	842.0	842.9	842.9	844.5	845.3	842.9	844.5	842.0	842.0	840.4	837.9	5°
7.5°	836.3	837.9	837.9	839.6	839.6	837.1	837.1	832.1	830.5	824.7	820.6	7.5°
10°	824.7	827.2	828.8	832.1	833.8	829.7	827.2	821.4	814.8	808.2	801.6	10°
12.5°	804.9	805.7	811.5	816.4	818.9	821.4	819.7	818.9	812.3	808.2	805.7	12.5°
15°	759.5	766.1	771.9	783.4	791.7	800.8	807.4	814.8	818.1	822.2	823.9	15°
17.5°	719.9	727.3	731.4	741.3	749.6	763.6	780.9	799.9	813.1	829.7	845.3	17.5°
20°	664.5	676.9	680.2	695.9	706.6	724.8	743.8	767.7	794.2	819.7	847.8	20°
22.5°	602.6	608.4	615.0	631.5	644.7	667.8	696.7	729.8	760.3	795.8	836.3	22.5°
25°	527.5	534.9	541.5	559.7	578.7	600.2	634.8	675.3	714.1	761.1	814.0	25°
27.5°	453.2	459.0	470.5	483.8	505.2	528.3	571.3	615.8	660.4	717.4	780.1	27.5°
30°	375.6	381.4	387.2	402.9	425.1	452.4	491.2	544.0	596.9	657.9	732.2	30°
32.5°	301.3	303.0	314.5	326.1	345.1	368.2	410.3	461.5	518.4	592.7	666.2	32.5°
35°	235.3	245.2	250.1	265.8	277.4	301.3	336.8	383.9	443.3	518.4	597.7	35°
37.5°	208.9	212.2	218.8	230.3	246.0	267.5	292.2	328.6	379.7	443.3	517.6	37.5°
40°	199.0	202.3	207.2	216.3	231.1	251.0	271.6	300.5	340.1	390.5	457.3	40°
42.5°	195.6	196.5	198.1	206.4	221.2	243.5	268.3	295.5	326.1	366.5	419.4	42.5°
45°	191.5	191.5	192.3	198.1	211.3	234.4	265.8	300.5	335.2	371.5	416.1	45°
47.5°	188.2	189.0	188.2	190.7	200.6	222.9	257.6	299.7	345.9	392.9	441.7	47.5°
50°	175.0	175.0	175.8	176.7	184.1	205.6	239.4	285.6	342.6	406.2	473.0	50°
52.5°	164.3	165.9	165.9	167.6	172.5	189.9	223.7	272.4	334.3	408.6	498.6	52.5°
55°	161.0	162.6	163.5	163.5	166.8	181.6	213.8	260.0	325.3	406.2	508.5	55°
57.5°	158.5	160.2	161.0	160.2	162.6	175.0	204.7	250.1	315.4	400.4	512.7	57.5°
60°	156.0	156.8	155.2	153.5	154.4	165.1	191.5	236.1	303.8	392.1	511.0	60°
62.5°	144.5	145.3	143.6	142.0	140.3	148.6	172.5	216.3	279.9	373.1	497.8	62.5°
65°	134.6	134.6	134.6	132.9	131.3	136.2	153.5	190.7	246.0	339.3	467.2	65°
67.5°	126.3	125.5	125.5	124.7	123.0	124.7	135.4	161.0	203.9	285.6	411.9	67.5°
70°	113.1	112.3	113.1	112.3	110.6	110.6	115.6	129.6	158.5	209.7	320.3	70°
72.5°	99.9	100.7	102.4	102.4	102.4	103.2	103.2	107.3	123.0	150.2	217.9	72.5°
75°	85.9	86.7	89.2	92.5	90.8	91.6	91.6	94.1	102.4	118.9	152.7	75°
77.5°	72.6	75.1	78.4	79.3	76.8	76.8	78.4	82.6	90.0	99.9	116.4	77.5°
80°	59.4	62.7	63.6	65.2	66.0	66.0	67.7	71.0	78.4	90.8	104.0	80°
82.5°	47.1	49.5	52.0	54.5	56.1	58.6	59.4	61.1	68.5	80.9	95.8	82.5°
85°	35.5	38.0	41.3	43.8	45.4	47.9	47.1	47.9	52.0	61.9	72.6	85°
87.5°	21.5	21.5	23.9	24.8	25.6	25.6	27.2	23.9	25.6	33.0	39.6	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°
842.0	842.0	842.0	842.0	842.0	842.0	842.0
844.5	843.7	842.9	843.7	845.3	845.3	842.9
838.7	836.3	834.6	834.6	834.6	833.8	832.1
818.9	814.8	812.3	810.7	809.8	809.8	806.5
797.5	795.0	790.0	788.4	789.2	791.7	790.9
802.4	795.0	792.5	792.5	791.7	795.8	795.0
829.7	829.7	826.4	825.5	823.9	828.8	828.8
858.5	866.0	869.3	866.0	866.8	867.6	874.2
874.2	895.7	907.3	916.3	917.2	922.1	921.3
876.7	915.5	946.1	965.9	984.0	993.1	991.5
864.3	918.0	971.6	1022.0	1060.0	1080.6	1097.9
847.8	911.4	980.7	1051.7	1113.6	1168.9	1203.6
809.0	889.9	979.1	1069.9	1158.2	1237.5	1301.9
754.5	847.8	954.3	1074.0	1197.8	1307.6	1401.7
681.9	781.8	911.4	1058.3	1221.8	1385.2	1527.2
603.5	713.3	855.2	1031.9	1234.2	1447.1	1642.0
534.9	643.1	798.3	998.1	1232.5	1487.6	1726.2
490.4	591.9	748.8	965.9	1224.3	1510.7	1792.2
475.5	567.1	715.7	940.3	1219.3	1527.2	1837.6
495.3	574.6	708.3	928.7	1217.6	1546.2	1877.2
541.5	615.8	736.4	947.7	1232.5	1565.2	1916.9
585.3	673.6	797.5	1002.2	1287.8	1620.5	1971.4
620.8	736.4	863.5	1074.0	1367.1	1706.4	2053.1
640.6	785.1	949.4	1173.9	1475.2	1832.7	2186.8
648.9	818.9	1022.8	1278.7	1611.4	1977.1	2356.0
645.6	834.6	1075.7	1374.5	1734.4	2135.6	2548.4
624.9	834.6	1108.7	1451.3	1837.6	2261.9	2717.6
575.4	805.7	1112.0	1495.9	1916.9	2368.4	2856.3
484.6	722.3	1056.7	1490.9	1941.6	2402.3	2929.0
339.3	539.1	881.7	1347.3	1836.0	2322.2	2848.9
210.5	336.0	631.5	1041.8	1528.0	1970.5	2535.2
147.8	203.9	361.6	659.6	1051.7	1468.6	1892.9
123.0	150.2	206.4	363.2	632.4	904.8	1190.4
106.5	121.4	143.6	207.2	322.0	482.1	662.9
79.3	88.3	99.1	136.2	203.1	298.0	453.2
32.2	36.3	40.5	54.5	124.7	171.7	184.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)