

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: P141895

Luminaire Tested: **ECM-F04-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141895
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33683)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F04-LED-E1-T3
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9695.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

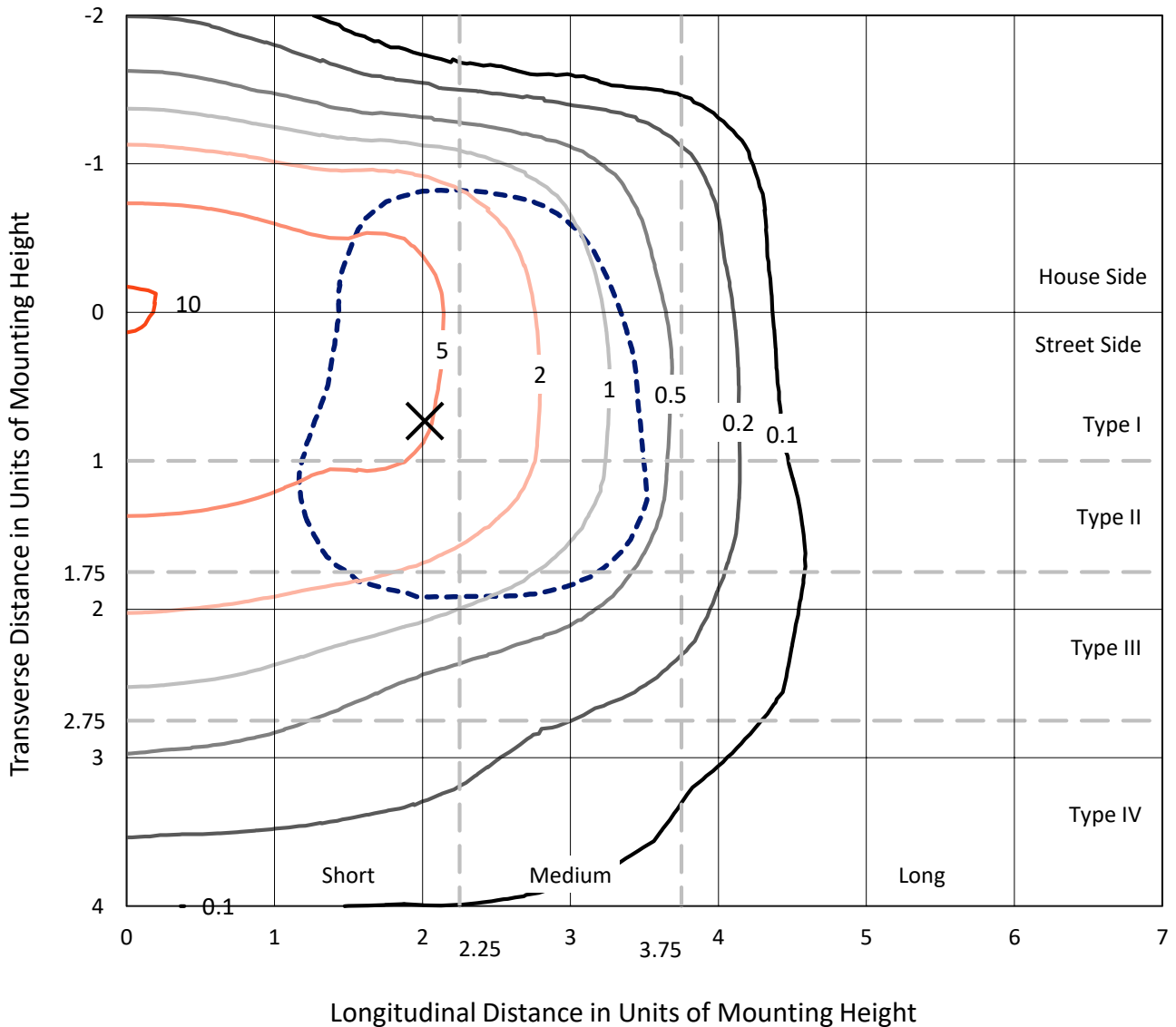
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P141895
 CATALOG NUMBER: ECM-F04-LED-E1-T3

Iso-Footcandle Lines of Horizontal Illumination

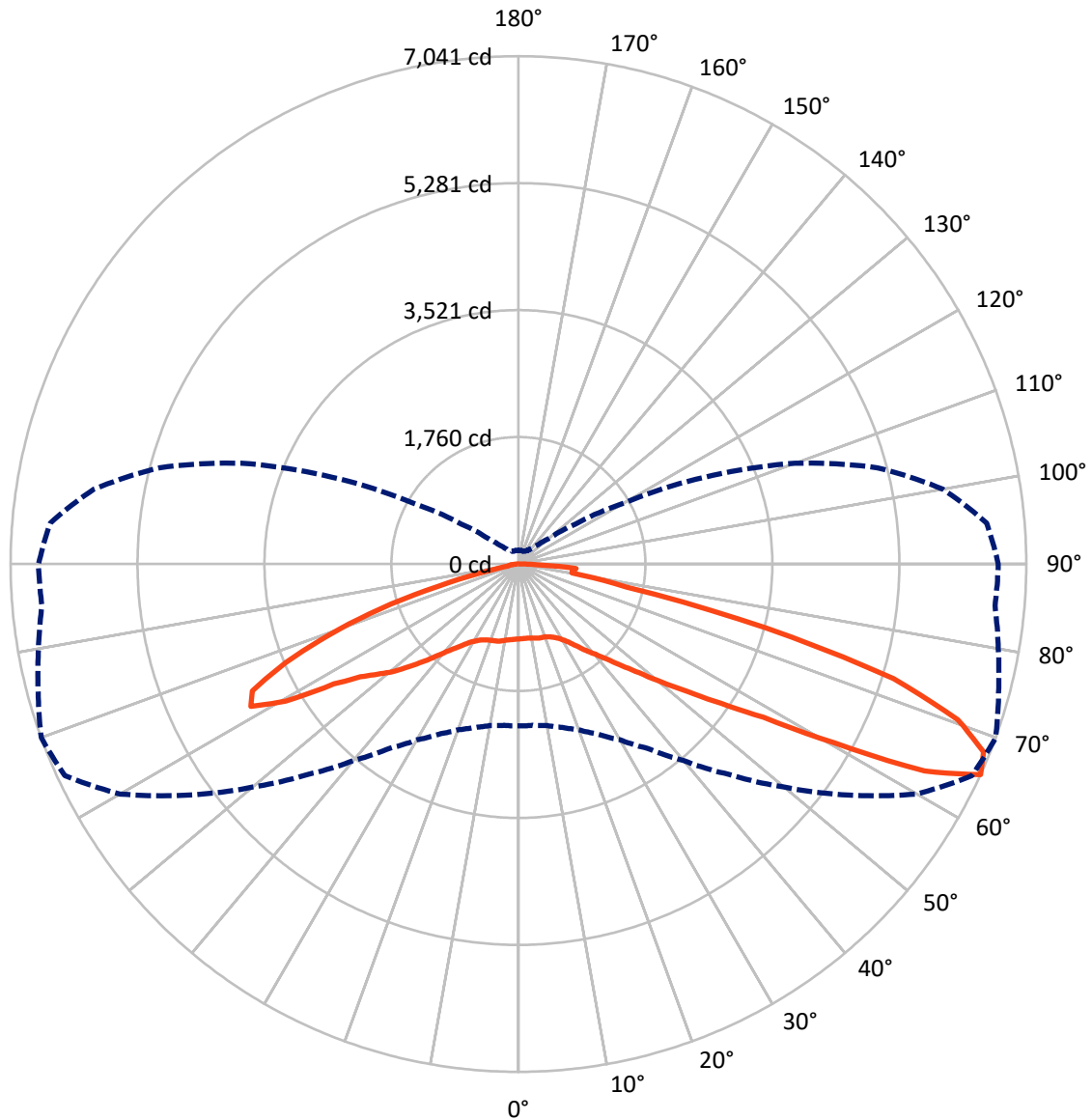
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P141895
CATALOG NUMBER: ECM-F04-LED-E1-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P141895

CATALOG NUMBER: ECM-F04-LED-E1-T3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3273.0 | 0.0 | 3273.0 |
| | % Fixture | 33.8 | 0.0 | 33.8 |
| Street Side | Lumens | 6422.8 | 0.0 | 6422.8 |
| | % Fixture | 66.2 | 0.0 | 66.2 |
| Total | Lumens | 9695.8 | 0.0 | 9695.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.0 | 1.0 |
| 10°-20° | 296.2 | 3.1 |
| 20°-30° | 509.3 | 5.3 |
| 30°-40° | 816.4 | 8.4 |
| 40°-50° | 1336.6 | 13.8 |
| 50°-60° | 2092.1 | 21.6 |
| 60°-70° | 2940.1 | 30.3 |
| 70°-80° | 1391.4 | 14.4 |
| 80°-90° | 213.8 | 2.2 |
| 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° | 9695.8 | 100.0 |
| 0°-180° | 9695.8 | 100.0 |



REPORT NUMBER: P141895

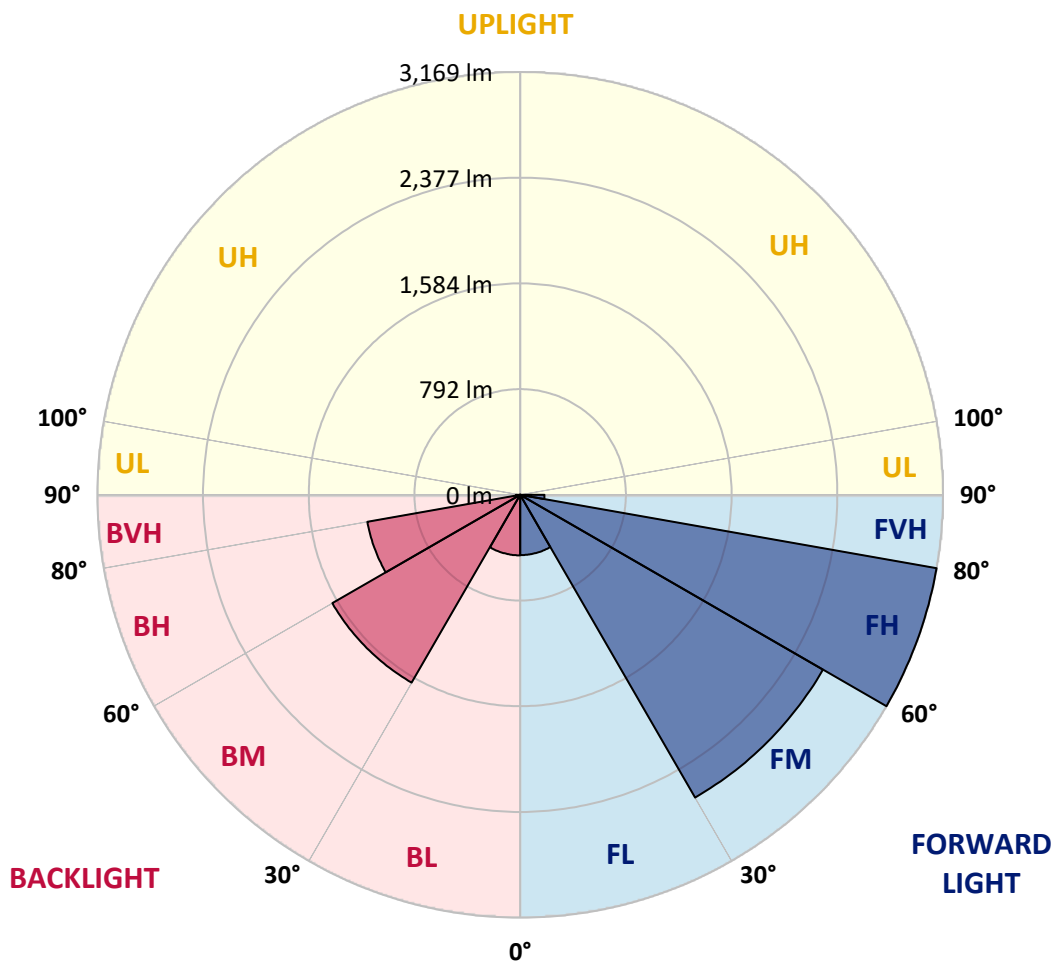
CATALOG NUMBER: ECM-F04-LED-E1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 451.7 | 4.7 | | | |
| FM | (30°-60°) | 2620.1 | 27.0 | | | |
| FH | (60°-80°) | 3168.8 | 32.7 | | | G2/5000 |
| FVH | (80°-90°) | 182.2 | 1.9 | | | G2/225 |
| BL | (0°-30°) | 453.8 | 4.7 | B1/500 | | |
| BM | (30°-60°) | 1625.0 | 16.8 | B2/2500 | | |
| BH | (60°-80°) | 1162.6 | 12.0 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 31.6 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P141895

CATALOG NUMBER: ECM-F04-LED-E1-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 |
| 2.5° | 1033.6 | 1034.7 | 1034.7 | 1032.5 | 1032.5 | 1033.6 | 1033.6 | 1034.7 | 1034.7 | 1034.7 | 1035.8 |
| 5° | 1033.6 | 1034.7 | 1034.7 | 1033.6 | 1032.5 | 1034.7 | 1033.6 | 1034.7 | 1034.7 | 1034.7 | 1034.7 |
| 7.5° | 1031.4 | 1032.5 | 1032.5 | 1031.4 | 1032.5 | 1033.6 | 1033.6 | 1035.8 | 1036.9 | 1036.9 | 1038.0 |
| 10° | 1020.3 | 1021.4 | 1022.6 | 1022.6 | 1024.8 | 1028.1 | 1029.2 | 1033.6 | 1034.7 | 1038.0 | 1040.2 |
| 12.5° | 1000.5 | 1000.5 | 1002.7 | 1004.9 | 1008.2 | 1014.8 | 1018.1 | 1024.8 | 1030.3 | 1034.7 | 1042.4 |
| 15° | 982.9 | 982.9 | 985.1 | 986.2 | 992.8 | 997.2 | 1003.8 | 1011.5 | 1021.4 | 1030.3 | 1042.4 |
| 17.5° | 991.7 | 991.7 | 990.6 | 989.5 | 990.6 | 990.6 | 996.1 | 1003.8 | 1012.6 | 1024.8 | 1040.2 |
| 20° | 1025.9 | 1024.8 | 1020.3 | 1018.1 | 1017.0 | 1012.6 | 1009.3 | 1008.2 | 1012.6 | 1021.4 | 1036.9 |
| 22.5° | 1055.6 | 1053.4 | 1052.3 | 1050.1 | 1053.4 | 1051.2 | 1046.8 | 1041.3 | 1034.7 | 1031.4 | 1040.2 |
| 25° | 1073.2 | 1074.3 | 1074.3 | 1074.3 | 1080.9 | 1083.1 | 1085.3 | 1078.7 | 1071.0 | 1060.0 | 1061.1 |
| 27.5° | 1097.4 | 1098.5 | 1096.3 | 1100.7 | 1108.4 | 1113.9 | 1119.4 | 1123.8 | 1119.4 | 1112.8 | 1105.1 |
| 30° | 1149.1 | 1149.1 | 1145.8 | 1149.1 | 1155.7 | 1161.2 | 1168.9 | 1176.6 | 1176.6 | 1170.0 | 1162.3 |
| 32.5° | 1203.1 | 1204.2 | 1204.2 | 1206.4 | 1216.3 | 1220.7 | 1231.7 | 1239.4 | 1244.9 | 1240.5 | 1244.9 |
| 35° | 1268.0 | 1266.9 | 1270.2 | 1271.3 | 1286.7 | 1292.2 | 1314.2 | 1319.7 | 1328.5 | 1330.7 | 1334.0 |
| 37.5° | 1375.9 | 1378.1 | 1371.5 | 1367.1 | 1380.3 | 1380.3 | 1408.9 | 1424.3 | 1422.1 | 1437.5 | 1448.5 |
| 40° | 1549.8 | 1539.9 | 1536.6 | 1534.4 | 1542.1 | 1541.0 | 1539.9 | 1560.8 | 1570.7 | 1572.9 | 1578.4 |
| 42.5° | 1742.4 | 1745.7 | 1742.4 | 1750.1 | 1750.1 | 1744.6 | 1740.2 | 1736.9 | 1755.6 | 1767.7 | 1769.9 |
| 45° | 1968.1 | 1972.5 | 1965.9 | 1960.3 | 1974.7 | 1982.4 | 1982.4 | 1991.2 | 2006.6 | 2012.1 | 2008.8 |
| 47.5° | 2148.6 | 2160.7 | 2155.2 | 2162.9 | 2186.0 | 2212.4 | 2247.6 | 2270.7 | 2287.3 | 2302.7 | 2326.9 |
| 50° | 2311.5 | 2317.0 | 2330.2 | 2355.5 | 2389.6 | 2431.4 | 2488.7 | 2545.9 | 2578.9 | 2617.5 | 2646.1 |
| 52.5° | 2410.5 | 2427.0 | 2446.9 | 2488.7 | 2545.9 | 2604.3 | 2692.3 | 2785.9 | 2869.5 | 2912.5 | 2946.6 |
| 55° | 2470.0 | 2482.1 | 2508.5 | 2565.7 | 2646.1 | 2733.0 | 2843.1 | 2971.9 | 3083.1 | 3177.7 | 3251.5 |
| 57.5° | 2467.8 | 2477.7 | 2514.0 | 2576.7 | 2672.5 | 2781.5 | 2919.1 | 3079.8 | 3243.8 | 3401.2 | 3539.9 |
| 60° | 2420.4 | 2429.2 | 2465.6 | 2532.7 | 2637.3 | 2767.2 | 2932.3 | 3129.3 | 3351.6 | 3588.3 | 3831.5 |
| 62.5° | 2347.8 | 2354.4 | 2386.3 | 2453.5 | 2559.1 | 2697.8 | 2891.5 | 3150.2 | 3466.1 | 3839.2 | 4311.4 |
| 65° | 2245.4 | 2245.4 | 2275.1 | 2344.5 | 2445.8 | 2601.0 | 2814.5 | 3118.3 | 3555.3 | 4123.2 | 4810.1 |
| 67.5° | 2094.6 | 2094.6 | 2118.8 | 2176.1 | 2255.3 | 2363.2 | 2576.7 | 2892.6 | 3353.8 | 4034.1 | 4837.6 |
| 70° | 1809.6 | 1814.0 | 1814.0 | 1849.2 | 1884.4 | 1932.8 | 2034.1 | 2276.2 | 2708.8 | 3373.6 | 4163.9 |
| 72.5° | 1326.3 | 1246.0 | 1308.7 | 1366.0 | 1405.6 | 1432.0 | 1490.3 | 1566.3 | 1784.2 | 2282.9 | 2998.3 |
| 75° | 835.4 | 856.3 | 903.7 | 968.6 | 1066.6 | 1167.8 | 1279.0 | 1326.3 | 1306.5 | 1366.0 | 1847.0 |
| 77.5° | 506.3 | 488.7 | 534.9 | 631.8 | 741.9 | 879.5 | 1087.5 | 1268.0 | 1371.5 | 1364.9 | 1307.6 |
| 80° | 219.0 | 213.5 | 244.4 | 290.6 | 344.5 | 468.9 | 659.3 | 907.0 | 1182.2 | 1341.8 | 1317.5 |
| 82.5° | 78.1 | 79.3 | 100.2 | 118.9 | 143.1 | 183.8 | 260.9 | 417.2 | 661.5 | 942.2 | 1164.5 |
| 85° | 23.1 | 25.3 | 35.2 | 49.5 | 56.1 | 63.8 | 88.1 | 131.0 | 223.4 | 356.6 | 634.0 |
| 87.5° | 6.6 | 7.7 | 9.9 | 17.6 | 16.5 | 15.4 | 17.6 | 27.5 | 20.9 | 17.6 | 88.1 |
| 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: P141895

CATALOG NUMBER: ECM-F04-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 |
| 2.5° | 1034.7 | 1034.7 | 1034.7 | 1035.8 | 1034.7 | 1034.7 | 1035.8 | 1035.8 | 1036.9 | 1038.0 | 1040.2 |
| 5° | 1033.6 | 1033.6 | 1034.7 | 1034.7 | 1034.7 | 1035.8 | 1036.9 | 1038.0 | 1040.2 | 1043.5 | 1046.8 |
| 7.5° | 1036.9 | 1036.9 | 1035.8 | 1036.9 | 1036.9 | 1038.0 | 1040.2 | 1041.3 | 1045.7 | 1049.0 | 1054.5 |
| 10° | 1040.2 | 1040.2 | 1041.3 | 1042.4 | 1042.4 | 1044.6 | 1047.9 | 1049.0 | 1053.4 | 1060.0 | 1065.5 |
| 12.5° | 1044.6 | 1047.9 | 1052.3 | 1054.5 | 1056.7 | 1058.9 | 1062.2 | 1064.4 | 1069.9 | 1078.7 | 1085.3 |
| 15° | 1047.9 | 1055.6 | 1060.0 | 1065.5 | 1068.8 | 1069.9 | 1073.2 | 1077.6 | 1083.1 | 1091.9 | 1099.6 |
| 17.5° | 1047.9 | 1057.8 | 1064.4 | 1069.9 | 1075.4 | 1078.7 | 1082.0 | 1086.4 | 1094.1 | 1102.9 | 1110.6 |
| 20° | 1046.8 | 1061.1 | 1069.9 | 1078.7 | 1088.6 | 1091.9 | 1097.4 | 1101.8 | 1110.6 | 1121.6 | 1127.1 |
| 22.5° | 1052.3 | 1068.8 | 1080.9 | 1096.3 | 1107.3 | 1116.1 | 1122.7 | 1130.4 | 1137.0 | 1144.7 | 1146.9 |
| 25° | 1068.8 | 1085.3 | 1105.1 | 1123.8 | 1139.2 | 1152.4 | 1161.2 | 1167.8 | 1175.5 | 1178.8 | 1174.4 |
| 27.5° | 1096.3 | 1108.4 | 1135.9 | 1163.4 | 1187.7 | 1204.2 | 1214.1 | 1222.9 | 1225.1 | 1231.7 | 1215.2 |
| 30° | 1145.8 | 1151.3 | 1180.0 | 1219.6 | 1247.1 | 1274.6 | 1287.8 | 1296.6 | 1297.7 | 1293.3 | 1264.7 |
| 32.5° | 1227.3 | 1217.4 | 1242.7 | 1295.5 | 1337.4 | 1360.5 | 1381.4 | 1386.9 | 1383.6 | 1369.3 | 1323.0 |
| 35° | 1326.3 | 1310.9 | 1323.0 | 1400.1 | 1446.3 | 1480.4 | 1500.3 | 1505.8 | 1498.1 | 1472.7 | 1408.9 |
| 37.5° | 1448.5 | 1443.0 | 1448.5 | 1522.3 | 1602.6 | 1634.5 | 1643.3 | 1649.9 | 1631.2 | 1585.0 | 1501.4 |
| 40° | 1583.9 | 1585.0 | 1578.4 | 1645.5 | 1746.8 | 1793.0 | 1814.0 | 1799.6 | 1776.5 | 1710.5 | 1618.0 |
| 42.5° | 1771.0 | 1764.4 | 1741.3 | 1801.8 | 1931.7 | 1979.1 | 1997.8 | 1986.8 | 1963.6 | 1880.0 | 1772.1 |
| 45° | 2018.7 | 1996.7 | 1974.7 | 2006.6 | 2132.1 | 2193.7 | 2221.2 | 2213.5 | 2172.8 | 2071.5 | 1970.3 |
| 47.5° | 2321.4 | 2298.3 | 2257.5 | 2252.0 | 2378.6 | 2451.3 | 2461.2 | 2449.1 | 2418.2 | 2317.0 | 2192.6 |
| 50° | 2639.5 | 2632.9 | 2614.2 | 2570.1 | 2683.5 | 2756.2 | 2749.5 | 2740.7 | 2706.6 | 2577.8 | 2450.2 |
| 52.5° | 2968.6 | 2981.8 | 2969.7 | 2938.9 | 3059.9 | 3089.7 | 3091.9 | 3065.4 | 3025.8 | 2906.9 | 2733.0 |
| 55° | 3314.2 | 3363.7 | 3382.5 | 3406.7 | 3502.4 | 3498.0 | 3472.7 | 3410.0 | 3419.9 | 3284.5 | 3043.4 |
| 57.5° | 3680.7 | 3832.6 | 3952.6 | 4006.5 | 4097.9 | 4124.3 | 4060.5 | 4081.4 | 4072.6 | 3932.8 | 3553.1 |
| 60° | 4163.9 | 4527.2 | 4839.8 | 5032.4 | 5155.7 | 5108.3 | 5197.5 | 5201.9 | 5352.7 | 5045.6 | 4453.4 |
| 62.5° | 4934.4 | 5601.5 | 6156.2 | 6322.4 | 6354.3 | 6343.3 | 6237.7 | 6343.3 | 6314.7 | 5940.5 | 5173.3 |
| 65° | 5582.7 | 6376.4 | 6939.9 | 7041.2 | 6892.6 | 6756.1 | 6632.8 | 6653.7 | 6517.2 | 5975.7 | 5152.4 |
| 67.5° | 5670.8 | 6461.1 | 6983.9 | 6955.3 | 6630.6 | 6377.5 | 6172.7 | 6012.0 | 5733.5 | 5243.7 | 4526.1 |
| 70° | 4974.1 | 5811.7 | 6485.3 | 6463.3 | 6012.0 | 5674.1 | 5341.7 | 5099.5 | 4815.6 | 4436.9 | 3757.8 |
| 72.5° | 3869.0 | 4615.2 | 5267.9 | 5437.5 | 4992.8 | 4619.6 | 4314.7 | 4006.5 | 3713.8 | 3353.8 | 2925.7 |
| 75° | 2634.0 | 3195.3 | 3499.1 | 3545.4 | 3138.1 | 2858.5 | 2740.7 | 2488.7 | 2178.3 | 2101.2 | 1784.2 |
| 77.5° | 1530.0 | 1745.7 | 1653.3 | 1530.0 | 1231.7 | 904.8 | 691.2 | 591.1 | 593.3 | 681.3 | 652.7 |
| 80° | 1243.8 | 1184.4 | 934.5 | 749.6 | 509.6 | 259.8 | 173.9 | 149.7 | 150.8 | 175.0 | 169.5 |
| 82.5° | 1282.3 | 1316.4 | 1082.0 | 757.3 | 521.7 | 275.2 | 132.1 | 98.0 | 114.5 | 124.4 | 122.2 |
| 85° | 949.9 | 1244.9 | 1116.1 | 803.5 | 560.3 | 292.8 | 85.9 | 53.9 | 75.9 | 92.5 | 99.1 |
| 87.5° | 266.4 | 418.3 | 324.7 | 214.6 | 156.3 | 52.8 | 34.1 | 28.6 | 35.2 | 48.4 | 48.4 |
| 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: P141895

CATALOG NUMBER: ECM-F04-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 | 1039.1 |
| 2.5° | 1041.3 | 1045.7 | 1044.6 | 1046.8 | 1047.9 | 1051.2 | 1053.4 | 1052.3 | 1052.3 | 1054.5 | 1056.7 |
| 5° | 1050.1 | 1055.6 | 1055.6 | 1058.9 | 1062.2 | 1066.6 | 1069.9 | 1067.7 | 1068.8 | 1071.0 | 1073.2 |
| 7.5° | 1058.9 | 1065.5 | 1066.6 | 1069.9 | 1072.1 | 1074.3 | 1076.5 | 1073.2 | 1072.1 | 1072.1 | 1071.0 |
| 10° | 1069.9 | 1076.5 | 1075.4 | 1075.4 | 1074.3 | 1072.1 | 1067.7 | 1060.0 | 1054.5 | 1051.2 | 1049.0 |
| 12.5° | 1088.6 | 1093.0 | 1086.4 | 1079.8 | 1068.8 | 1061.1 | 1051.2 | 1042.4 | 1035.8 | 1030.3 | 1028.1 |
| 15° | 1105.1 | 1102.9 | 1095.2 | 1083.1 | 1067.7 | 1055.6 | 1045.7 | 1033.6 | 1025.9 | 1019.2 | 1015.9 |
| 17.5° | 1113.9 | 1106.2 | 1095.2 | 1084.2 | 1071.0 | 1060.0 | 1047.9 | 1033.6 | 1021.4 | 1012.6 | 1008.2 |
| 20° | 1122.7 | 1110.6 | 1096.3 | 1085.3 | 1075.4 | 1066.6 | 1057.8 | 1040.2 | 1024.8 | 1011.5 | 1004.9 |
| 22.5° | 1135.9 | 1119.4 | 1105.1 | 1095.2 | 1085.3 | 1076.5 | 1067.7 | 1051.2 | 1034.7 | 1017.0 | 1007.1 |
| 25° | 1154.6 | 1132.6 | 1122.7 | 1112.8 | 1101.8 | 1093.0 | 1080.9 | 1065.5 | 1047.9 | 1027.0 | 1012.6 |
| 27.5° | 1184.4 | 1164.5 | 1153.5 | 1143.6 | 1130.4 | 1116.1 | 1102.9 | 1082.0 | 1065.5 | 1041.3 | 1022.6 |
| 30° | 1227.3 | 1206.4 | 1196.5 | 1186.6 | 1171.1 | 1152.4 | 1133.7 | 1107.3 | 1084.2 | 1056.7 | 1032.5 |
| 32.5° | 1281.2 | 1270.2 | 1258.1 | 1241.6 | 1220.7 | 1197.6 | 1170.0 | 1134.8 | 1101.8 | 1067.7 | 1036.9 |
| 35° | 1364.9 | 1346.2 | 1326.3 | 1309.8 | 1279.0 | 1247.1 | 1205.3 | 1153.5 | 1109.5 | 1067.7 | 1030.3 |
| 37.5° | 1460.6 | 1440.8 | 1414.4 | 1384.7 | 1338.5 | 1287.8 | 1229.5 | 1164.5 | 1106.2 | 1055.6 | 1013.7 |
| 40° | 1576.2 | 1550.9 | 1515.7 | 1459.5 | 1391.3 | 1315.3 | 1237.2 | 1155.7 | 1087.5 | 1029.2 | 980.7 |
| 42.5° | 1729.2 | 1677.5 | 1609.2 | 1526.7 | 1429.8 | 1326.3 | 1227.3 | 1132.6 | 1055.6 | 991.7 | 943.3 |
| 45° | 1902.0 | 1819.5 | 1709.4 | 1586.1 | 1451.8 | 1321.9 | 1205.3 | 1095.2 | 1008.2 | 937.8 | 887.2 |
| 47.5° | 2088.0 | 1959.2 | 1797.4 | 1623.5 | 1454.0 | 1297.7 | 1162.3 | 1039.1 | 941.1 | 866.3 | 803.5 |
| 50° | 2298.3 | 2085.8 | 1859.1 | 1642.2 | 1439.7 | 1254.8 | 1100.7 | 958.7 | 857.4 | 768.3 | 711.1 |
| 52.5° | 2478.8 | 2197.0 | 1902.0 | 1634.5 | 1389.1 | 1180.0 | 999.4 | 861.8 | 743.0 | 663.7 | 607.6 |
| 55° | 2692.3 | 2304.9 | 1925.1 | 1596.0 | 1307.6 | 1063.3 | 890.5 | 737.5 | 625.2 | 554.8 | 506.3 |
| 57.5° | 3052.2 | 2487.6 | 1944.9 | 1517.9 | 1173.3 | 916.9 | 739.7 | 596.6 | 508.5 | 446.9 | 412.8 |
| 60° | 3746.8 | 2842.0 | 2026.4 | 1401.2 | 1002.7 | 740.8 | 571.3 | 466.7 | 390.7 | 350.0 | 325.8 |
| 62.5° | 4201.4 | 3083.1 | 1990.1 | 1221.8 | 783.7 | 554.8 | 418.3 | 336.8 | 292.8 | 263.1 | 252.1 |
| 65° | 4085.8 | 2839.8 | 1688.5 | 968.6 | 545.9 | 368.7 | 280.7 | 231.1 | 211.3 | 195.9 | 189.3 |
| 67.5° | 3509.0 | 2290.6 | 1224.0 | 626.3 | 345.6 | 224.5 | 183.8 | 164.0 | 155.2 | 148.6 | 147.5 |
| 70° | 2795.8 | 1614.7 | 727.6 | 332.4 | 191.5 | 148.6 | 131.0 | 123.3 | 120.0 | 120.0 | 120.0 |
| 72.5° | 2028.6 | 930.1 | 357.7 | 179.4 | 128.8 | 113.4 | 105.7 | 103.5 | 102.4 | 102.4 | 103.5 |
| 75° | 1159.0 | 402.9 | 183.8 | 123.3 | 105.7 | 98.0 | 93.6 | 93.6 | 93.6 | 93.6 | 94.7 |
| 77.5° | 404.0 | 183.8 | 129.9 | 103.5 | 91.4 | 87.0 | 84.8 | 87.0 | 88.1 | 88.1 | 88.1 |
| 80° | 147.5 | 129.9 | 111.2 | 90.3 | 81.5 | 77.0 | 77.0 | 80.4 | 82.6 | 80.4 | 79.3 |
| 82.5° | 116.7 | 102.4 | 90.3 | 78.1 | 71.5 | 69.3 | 70.4 | 72.6 | 71.5 | 70.4 | 67.1 |
| 85° | 89.2 | 67.1 | 62.7 | 58.3 | 57.2 | 57.2 | 61.6 | 62.7 | 58.3 | 56.1 | 52.8 |
| 87.5° | 44.0 | 35.2 | 31.9 | 37.4 | 36.3 | 33.0 | 34.1 | 34.1 | 28.6 | 26.4 | 27.5 |
| 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: P141895

CATALOG NUMBER: ECM-F04-LED-E1-T3

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1039.1 | 1039.1 | 1039.1 | 1039.1 |
| 2.5° | 1056.7 | 1057.8 | 1061.1 | 1060.0 |
| 5° | 1072.1 | 1073.2 | 1075.4 | 1075.4 |
| 7.5° | 1068.8 | 1069.9 | 1069.9 | 1069.9 |
| 10° | 1043.5 | 1043.5 | 1045.7 | 1045.7 |
| 12.5° | 1023.7 | 1022.6 | 1022.6 | 1020.3 |
| 15° | 1011.5 | 1009.3 | 1010.4 | 1007.1 |
| 17.5° | 1002.7 | 1001.6 | 1001.6 | 999.4 |
| 20° | 999.4 | 997.2 | 996.1 | 993.9 |
| 22.5° | 997.2 | 996.1 | 993.9 | 991.7 |
| 25° | 1002.7 | 997.2 | 996.1 | 993.9 |
| 27.5° | 1008.2 | 1002.7 | 998.3 | 997.2 |
| 30° | 1013.7 | 1003.8 | 998.3 | 996.1 |
| 32.5° | 1012.6 | 999.4 | 991.7 | 988.4 |
| 35° | 1000.5 | 984.0 | 974.1 | 970.8 |
| 37.5° | 977.4 | 958.7 | 943.3 | 937.8 |
| 40° | 944.4 | 920.2 | 905.9 | 898.2 |
| 42.5° | 904.8 | 877.3 | 865.2 | 858.5 |
| 45° | 839.8 | 817.8 | 803.5 | 798.0 |
| 47.5° | 767.2 | 737.5 | 724.3 | 718.8 |
| 50° | 673.6 | 649.4 | 638.4 | 630.7 |
| 52.5° | 574.6 | 552.6 | 542.6 | 538.2 |
| 55° | 478.8 | 467.8 | 452.4 | 449.1 |
| 57.5° | 388.5 | 385.2 | 374.2 | 373.1 |
| 60° | 315.9 | 310.4 | 302.7 | 302.7 |
| 62.5° | 248.8 | 243.3 | 240.0 | 240.0 |
| 65° | 191.5 | 190.4 | 188.2 | 187.1 |
| 67.5° | 147.5 | 150.8 | 151.9 | 149.7 |
| 70° | 123.3 | 124.4 | 124.4 | 124.4 |
| 72.5° | 106.8 | 106.8 | 106.8 | 105.7 |
| 75° | 96.9 | 96.9 | 94.7 | 93.6 |
| 77.5° | 89.2 | 88.1 | 89.2 | 88.1 |
| 80° | 78.1 | 77.0 | 74.8 | 72.6 |
| 82.5° | 64.9 | 63.8 | 58.3 | 58.3 |
| 85° | 50.6 | 47.3 | 42.9 | 38.5 |
| 87.5° | 28.6 | 25.3 | 18.7 | 13.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)