

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: P141413

Luminaire Tested: **ECM-F04-LED-E1-SLL-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141413
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-F04-LED-E1-SLL-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7289.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

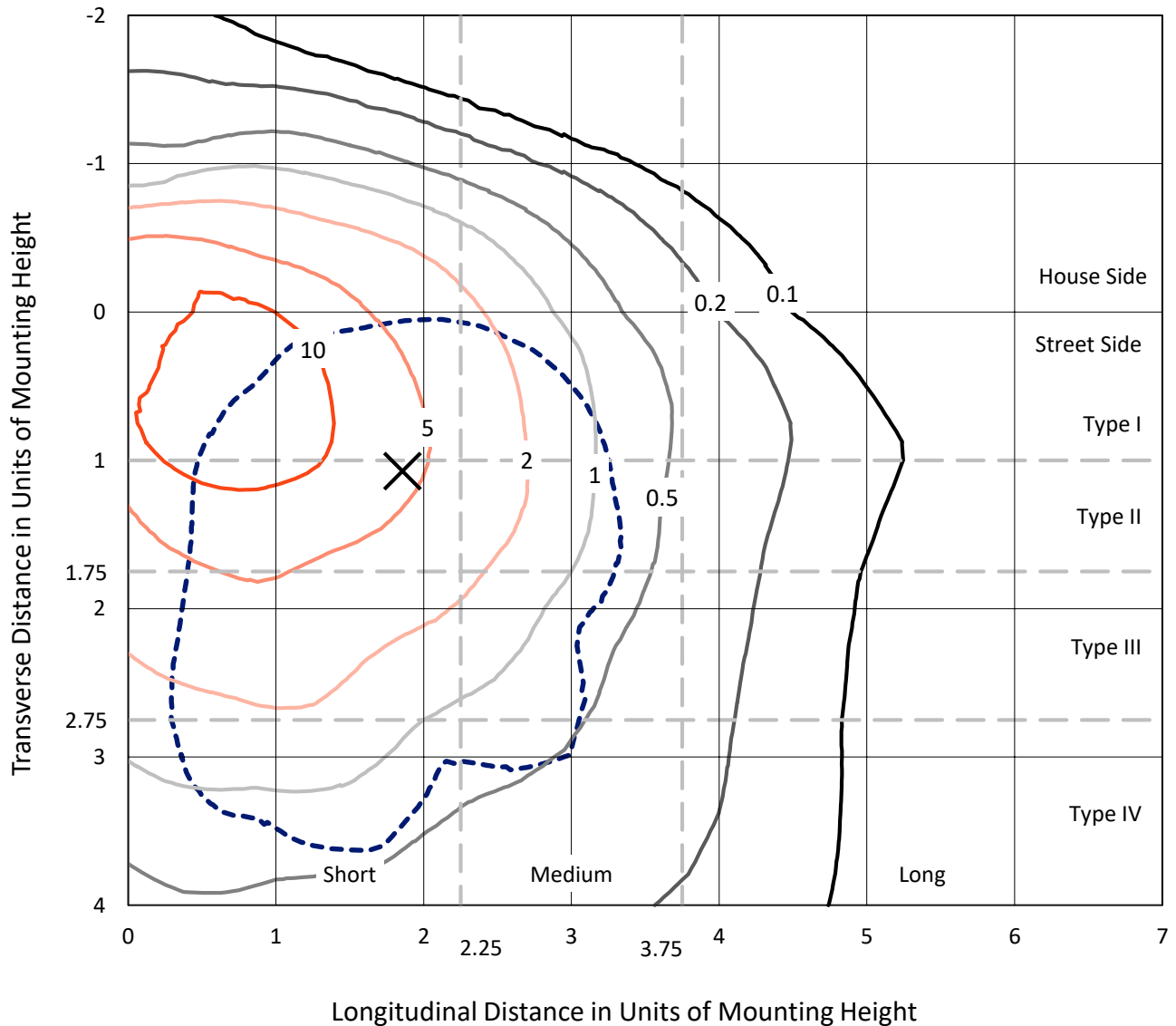
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

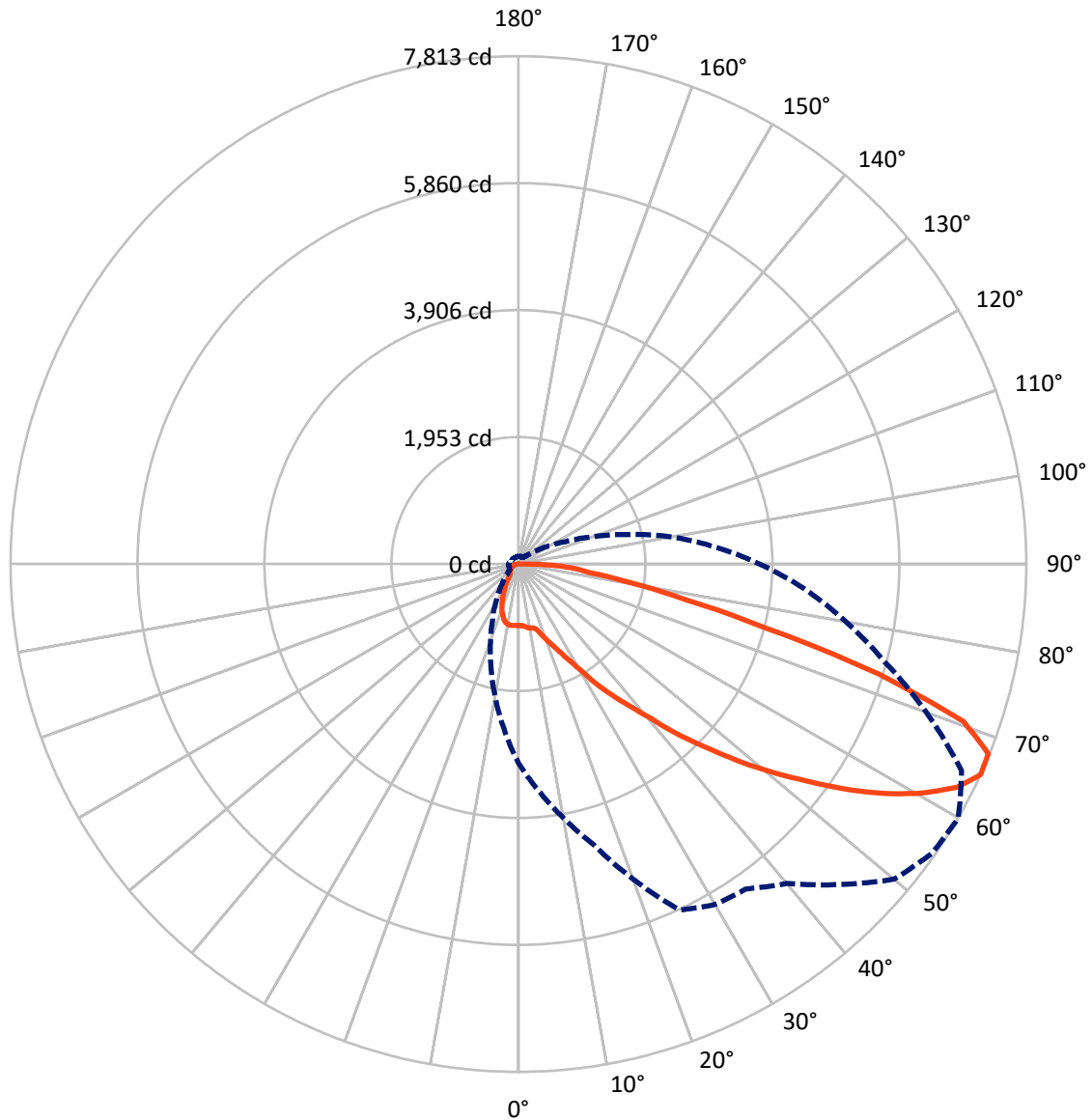
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 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 | 1352.0 | 0.0 | 1352.0 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 5937.3 | 0.0 | 5937.3 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 7289.3 | 0.0 | 7289.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.7 | 1.3 |
| 10°-20° | 275.3 | 3.8 |
| 20°-30° | 457.4 | 6.3 |
| 30°-40° | 668.7 | 9.2 |
| 40°-50° | 1017.2 | 14.0 |
| 50°-60° | 1462.2 | 20.1 |
| 60°-70° | 1797.7 | 24.7 |
| 70°-80° | 1202.6 | 16.5 |
| 80°-90° | 316.4 | 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° | 7289.3 | 100.0 |
| 0°-180° | 7289.3 | 100.0 |



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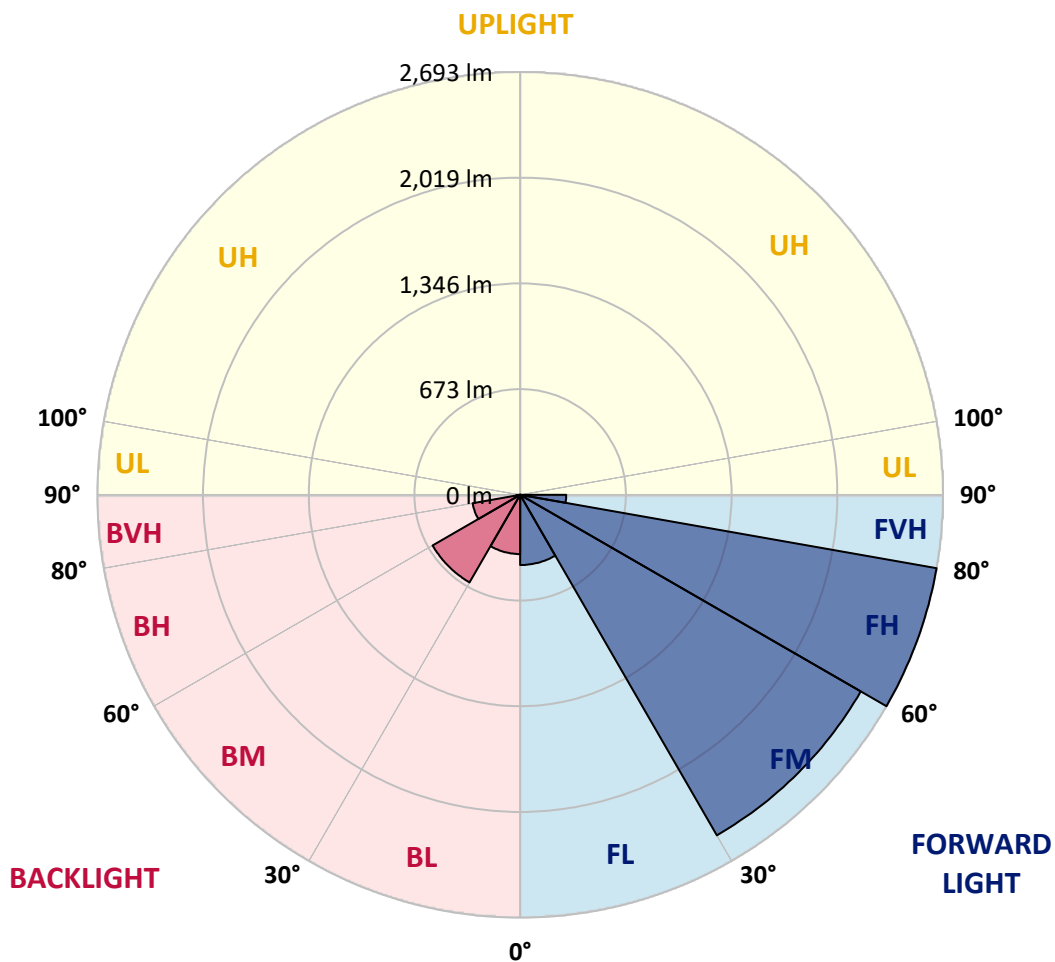
CATALOG NUMBER: ECM-F04-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 447.1 | 6.1 | | | |
| FM | (30°-60°) | 2504.1 | 34.4 | | | |
| FH | (60°-80°) | 2692.7 | 36.9 | | | G2/5000 |
| FVH | (80°-90°) | 293.4 | 4.0 | | | G3/500 |
| BL | (0°-30°) | 377.3 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 644.0 | 8.8 | B1/1000 | | |
| BH | (60°-80°) | 307.7 | 4.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 23.0 | 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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CATALOG NUMBER: ECM-F04-LED-E1-SLL-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 |
| 2.5° | 948.5 | 949.4 | 949.4 | 948.5 | 947.6 | 948.5 | 946.6 | 948.5 | 947.6 | 946.6 | 947.6 |
| 5° | 936.4 | 937.3 | 939.2 | 939.2 | 941.1 | 944.8 | 945.7 | 950.3 | 953.1 | 954.1 | 957.8 |
| 7.5° | 907.6 | 912.3 | 915.0 | 918.8 | 924.3 | 933.6 | 940.1 | 951.3 | 959.6 | 967.1 | 977.3 |
| 10° | 890.0 | 895.5 | 901.1 | 909.5 | 917.8 | 929.9 | 941.1 | 955.0 | 966.1 | 977.3 | 989.4 |
| 12.5° | 894.6 | 901.1 | 908.5 | 915.0 | 928.1 | 939.2 | 953.1 | 969.9 | 975.4 | 986.6 | 996.8 |
| 15° | 932.7 | 938.3 | 943.8 | 951.3 | 963.4 | 976.4 | 994.9 | 1013.5 | 1017.2 | 1029.3 | 1040.5 |
| 17.5° | 983.8 | 984.7 | 994.0 | 1007.0 | 1018.2 | 1039.5 | 1061.8 | 1086.9 | 1102.7 | 1110.1 | 1116.6 |
| 20° | 1036.7 | 1039.5 | 1054.4 | 1066.5 | 1091.6 | 1119.4 | 1151.9 | 1189.1 | 1202.1 | 1234.6 | 1246.7 |
| 22.5° | 1115.7 | 1114.8 | 1132.4 | 1149.1 | 1177.0 | 1206.7 | 1254.1 | 1305.2 | 1334.9 | 1360.0 | 1369.3 |
| 25° | 1235.5 | 1238.3 | 1235.5 | 1259.7 | 1288.5 | 1336.8 | 1384.2 | 1435.3 | 1452.9 | 1496.6 | 1517.0 |
| 27.5° | 1354.5 | 1375.8 | 1404.6 | 1412.1 | 1447.4 | 1503.1 | 1540.3 | 1595.1 | 1637.8 | 1649.9 | 1683.3 |
| 30° | 1465.0 | 1509.6 | 1557.0 | 1596.9 | 1660.1 | 1727.9 | 1783.6 | 1845.9 | 1848.7 | 1871.0 | 1880.3 |
| 32.5° | 1577.4 | 1647.1 | 1716.8 | 1767.9 | 1829.2 | 1919.3 | 2022.4 | 2123.6 | 2189.6 | 2257.4 | 2223.1 |
| 35° | 1718.6 | 1827.3 | 1924.8 | 2003.8 | 2055.8 | 2139.4 | 2258.4 | 2422.8 | 2528.7 | 2609.5 | 2656.0 |
| 37.5° | 1847.7 | 2012.2 | 2161.7 | 2274.1 | 2401.4 | 2460.9 | 2538.9 | 2657.8 | 2779.5 | 2854.8 | 2893.8 |
| 40° | 1942.5 | 2167.3 | 2379.1 | 2541.7 | 2703.3 | 2845.5 | 2943.9 | 3040.6 | 3205.0 | 3298.8 | 3306.2 |
| 42.5° | 2016.8 | 2302.9 | 2558.4 | 2791.6 | 3029.4 | 3228.2 | 3347.1 | 3469.7 | 3678.8 | 3787.5 | 3779.1 |
| 45° | 2067.9 | 2404.2 | 2721.0 | 3008.0 | 3296.0 | 3555.2 | 3784.7 | 3966.7 | 4180.4 | 4387.6 | 4345.8 |
| 47.5° | 2112.5 | 2487.8 | 2850.1 | 3174.3 | 3519.9 | 3843.2 | 4129.3 | 4385.7 | 4668.1 | 4947.8 | 4964.5 |
| 50° | 2157.1 | 2555.6 | 2967.2 | 3340.6 | 3729.9 | 4135.8 | 4481.4 | 4811.2 | 5164.2 | 5520.0 | 5601.8 |
| 52.5° | 2218.4 | 2631.8 | 3075.9 | 3492.0 | 3944.5 | 4372.7 | 4758.2 | 5168.8 | 5605.5 | 5949.2 | 6181.4 |
| 55° | 2310.4 | 2737.7 | 3210.6 | 3643.5 | 4136.8 | 4608.7 | 5035.1 | 5508.9 | 5910.2 | 6334.7 | 6665.4 |
| 57.5° | 2460.9 | 2878.9 | 3366.6 | 3808.8 | 4322.5 | 4822.3 | 5265.5 | 5762.5 | 6145.2 | 6616.2 | 7031.5 |
| 60° | 2651.3 | 3071.2 | 3543.1 | 4004.8 | 4540.9 | 5122.4 | 5569.2 | 5937.1 | 6320.8 | 6797.4 | 7297.1 |
| 62.5° | 2867.8 | 3288.6 | 3758.7 | 4235.2 | 4844.6 | 5474.5 | 5858.2 | 6068.1 | 6402.5 | 6921.8 | 7469.0 |
| 65° | 3058.2 | 3492.0 | 3961.2 | 4466.5 | 5155.8 | 5872.1 | 6048.6 | 6101.5 | 6414.6 | 6972.0 | 7543.3 |
| 67.5° | 3214.3 | 3713.1 | 4150.7 | 4654.2 | 5483.8 | 6124.8 | 6052.3 | 5946.4 | 6250.2 | 6850.3 | 7401.2 |
| 70° | 3296.0 | 3811.6 | 4240.8 | 4670.9 | 5553.4 | 6160.1 | 5906.5 | 5618.5 | 5756.9 | 6344.0 | 6804.8 |
| 72.5° | 3205.9 | 3734.5 | 4073.6 | 4341.1 | 5136.3 | 5725.3 | 5402.0 | 4858.6 | 4984.9 | 5553.4 | 5672.4 |
| 75° | 2852.9 | 3491.1 | 3689.0 | 3679.7 | 4108.0 | 4412.7 | 4178.6 | 3832.0 | 4154.4 | 4391.3 | 4269.6 |
| 77.5° | 2130.2 | 2859.4 | 2970.0 | 2766.5 | 2857.5 | 3113.9 | 2892.8 | 3162.3 | 3553.4 | 3660.2 | 3429.8 |
| 80° | 1339.6 | 2095.8 | 2107.9 | 1854.2 | 1805.9 | 1906.3 | 2191.5 | 2764.6 | 3138.1 | 3115.8 | 2811.1 |
| 82.5° | 746.0 | 1359.1 | 1488.2 | 1256.0 | 1196.5 | 1442.7 | 1951.8 | 2256.5 | 2207.3 | 2188.7 | 1792.0 |
| 85° | 510.0 | 928.1 | 1134.3 | 1087.8 | 1203.0 | 1439.0 | 1600.6 | 1430.6 | 1377.7 | 1173.3 | 952.2 |
| 87.5° | 207.2 | 418.0 | 703.2 | 808.2 | 857.4 | 1052.5 | 921.5 | 750.6 | 577.8 | 548.1 | 471.0 |
| 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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CATALOG NUMBER: ECM-F04-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 |
| 2.5° | 944.8 | 946.6 | 946.6 | 947.6 | 948.5 | 949.4 | 949.4 | 949.4 | 950.3 | 951.3 | 950.3 |
| 5° | 958.7 | 961.5 | 963.4 | 963.4 | 965.2 | 967.1 | 968.9 | 968.0 | 970.8 | 972.6 | 973.6 |
| 7.5° | 981.0 | 986.6 | 991.2 | 994.9 | 996.8 | 996.8 | 996.8 | 994.0 | 996.8 | 997.7 | 998.7 |
| 10° | 996.8 | 1003.3 | 1004.2 | 1007.9 | 1007.0 | 1006.1 | 1004.2 | 1002.4 | 1003.3 | 1005.2 | 1007.9 |
| 12.5° | 1001.4 | 1007.9 | 1009.8 | 1012.6 | 1011.7 | 1010.7 | 1007.0 | 1007.0 | 1006.1 | 1008.9 | 1011.7 |
| 15° | 1039.5 | 1045.1 | 1054.4 | 1046.0 | 1047.0 | 1039.5 | 1033.0 | 1029.3 | 1027.5 | 1029.3 | 1031.2 |
| 17.5° | 1126.9 | 1136.1 | 1132.4 | 1119.4 | 1118.5 | 1102.7 | 1099.9 | 1081.3 | 1081.3 | 1081.3 | 1075.8 |
| 20° | 1246.7 | 1245.8 | 1239.3 | 1226.3 | 1198.4 | 1192.8 | 1172.4 | 1157.5 | 1143.6 | 1140.8 | 1134.3 |
| 22.5° | 1377.7 | 1363.7 | 1360.0 | 1333.1 | 1315.4 | 1282.0 | 1251.3 | 1240.2 | 1227.2 | 1224.4 | 1223.5 |
| 25° | 1504.9 | 1510.5 | 1483.6 | 1470.6 | 1426.0 | 1396.3 | 1378.6 | 1350.7 | 1350.7 | 1347.0 | 1342.4 |
| 27.5° | 1664.7 | 1683.3 | 1653.6 | 1635.0 | 1593.2 | 1551.4 | 1520.7 | 1504.0 | 1486.4 | 1474.3 | 1440.8 |
| 30° | 1890.5 | 1902.6 | 1882.1 | 1844.0 | 1792.0 | 1717.7 | 1675.9 | 1657.3 | 1624.8 | 1583.9 | 1529.1 |
| 32.5° | 2208.2 | 2191.5 | 2121.8 | 2054.9 | 1987.1 | 1916.5 | 1866.3 | 1832.9 | 1782.7 | 1701.0 | 1596.9 |
| 35° | 2619.7 | 2475.7 | 2388.4 | 2296.4 | 2218.4 | 2139.4 | 2101.4 | 2041.0 | 1926.7 | 1793.9 | 1654.5 |
| 37.5° | 2822.2 | 2758.1 | 2657.8 | 2589.1 | 2496.2 | 2417.2 | 2330.8 | 2227.7 | 2080.0 | 1889.5 | 1696.3 |
| 40° | 3228.2 | 3107.4 | 3029.4 | 2951.4 | 2837.1 | 2729.3 | 2612.3 | 2446.0 | 2208.2 | 1971.3 | 1728.8 |
| 42.5° | 3654.6 | 3565.4 | 3424.2 | 3320.2 | 3234.7 | 3056.3 | 2870.6 | 2638.3 | 2339.2 | 2045.6 | 1758.6 |
| 45° | 4210.1 | 4005.8 | 3831.1 | 3742.9 | 3574.7 | 3357.3 | 3140.9 | 2809.2 | 2459.9 | 2123.6 | 1792.0 |
| 47.5° | 4768.5 | 4505.6 | 4325.3 | 4160.9 | 3981.6 | 3689.9 | 3352.7 | 2957.9 | 2552.8 | 2188.7 | 1819.9 |
| 50° | 5367.7 | 5021.1 | 4813.0 | 4616.1 | 4320.7 | 3967.7 | 3538.5 | 3080.5 | 2649.5 | 2250.0 | 1845.0 |
| 52.5° | 5977.1 | 5539.5 | 5242.2 | 5012.8 | 4646.8 | 4210.1 | 3706.6 | 3207.8 | 2752.6 | 2309.4 | 1865.4 |
| 55° | 6525.2 | 6114.6 | 5730.9 | 5376.9 | 4936.6 | 4429.4 | 3860.8 | 3322.0 | 2845.5 | 2371.7 | 1878.4 |
| 57.5° | 7022.2 | 6664.5 | 6206.5 | 5731.8 | 5203.2 | 4632.8 | 4003.0 | 3445.6 | 2932.8 | 2417.2 | 1877.5 |
| 60° | 7363.1 | 7154.1 | 6678.4 | 6099.7 | 5481.9 | 4819.6 | 4173.9 | 3583.1 | 3009.9 | 2449.7 | 1870.0 |
| 62.5° | 7608.4 | 7566.5 | 7151.3 | 6453.6 | 5709.5 | 4987.7 | 4339.3 | 3697.3 | 3065.6 | 2453.4 | 1838.5 |
| 65° | 7761.6 | 7812.7 | 7521.0 | 6678.4 | 5836.8 | 5115.9 | 4421.0 | 3707.6 | 3025.7 | 2392.1 | 1754.8 |
| 67.5° | 7665.0 | 7796.9 | 7519.2 | 6580.9 | 5715.1 | 4996.1 | 4301.2 | 3536.6 | 2813.0 | 2201.7 | 1567.2 |
| 70° | 7065.8 | 7263.7 | 6989.7 | 5934.3 | 5119.6 | 4533.4 | 3859.9 | 3037.8 | 2420.0 | 1813.4 | 1238.3 |
| 72.5° | 5542.3 | 5803.3 | 5563.7 | 4840.0 | 4238.0 | 3747.5 | 3247.7 | 2385.6 | 1845.0 | 1332.2 | 832.4 |
| 75° | 3823.7 | 3924.0 | 3781.0 | 3281.2 | 3096.3 | 2904.9 | 2437.6 | 1603.4 | 1218.8 | 822.1 | 489.6 |
| 77.5° | 2966.2 | 2603.0 | 2329.0 | 2124.6 | 2120.9 | 2085.6 | 1595.1 | 959.6 | 729.2 | 452.4 | 272.2 |
| 80° | 2230.5 | 1751.1 | 1445.5 | 1264.3 | 1314.5 | 1469.6 | 929.9 | 492.4 | 377.2 | 249.9 | 167.2 |
| 82.5° | 1467.8 | 1117.6 | 891.8 | 789.6 | 798.0 | 921.5 | 467.3 | 271.3 | 185.8 | 142.1 | 108.7 |
| 85° | 894.6 | 868.6 | 774.8 | 703.2 | 648.4 | 633.6 | 363.2 | 208.1 | 103.1 | 73.4 | 55.7 |
| 87.5° | 436.6 | 517.4 | 631.7 | 640.1 | 550.0 | 466.3 | 188.6 | 59.5 | 43.7 | 23.2 | 16.7 |
| 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-F04-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 |
| 2.5° | 951.3 | 955.9 | 954.1 | 953.1 | 953.1 | 957.8 | 957.8 | 955.9 | 955.9 | 956.9 | 956.9 |
| 5° | 973.6 | 978.2 | 976.4 | 977.3 | 979.1 | 980.1 | 982.9 | 980.1 | 978.2 | 980.1 | 979.1 |
| 7.5° | 999.6 | 1004.2 | 1003.3 | 1005.2 | 1007.0 | 1008.9 | 1010.7 | 1009.8 | 1007.9 | 1007.9 | 1007.0 |
| 10° | 1010.7 | 1020.0 | 1023.7 | 1027.5 | 1032.1 | 1034.0 | 1036.7 | 1036.7 | 1033.0 | 1033.0 | 1028.4 |
| 12.5° | 1018.2 | 1025.6 | 1034.9 | 1040.5 | 1048.8 | 1055.3 | 1058.1 | 1059.0 | 1056.3 | 1052.5 | 1047.9 |
| 15° | 1034.0 | 1039.5 | 1048.8 | 1054.4 | 1064.6 | 1073.0 | 1078.5 | 1077.6 | 1073.9 | 1063.7 | 1049.7 |
| 17.5° | 1073.0 | 1072.0 | 1075.8 | 1079.5 | 1082.3 | 1086.9 | 1085.0 | 1076.7 | 1059.0 | 1040.5 | 1020.9 |
| 20° | 1131.5 | 1130.6 | 1125.0 | 1116.6 | 1106.4 | 1093.4 | 1073.0 | 1047.9 | 1018.2 | 984.7 | 955.0 |
| 22.5° | 1214.2 | 1205.8 | 1198.4 | 1176.1 | 1140.8 | 1097.1 | 1044.2 | 994.9 | 959.6 | 927.1 | 894.6 |
| 25° | 1323.8 | 1303.4 | 1267.1 | 1215.1 | 1159.4 | 1094.3 | 1017.2 | 951.3 | 906.7 | 868.6 | 836.1 |
| 27.5° | 1392.5 | 1345.2 | 1284.8 | 1213.2 | 1138.9 | 1055.3 | 969.9 | 904.8 | 854.7 | 812.9 | 775.7 |
| 30° | 1451.1 | 1365.6 | 1281.1 | 1190.0 | 1096.2 | 1009.8 | 919.7 | 850.0 | 791.5 | 745.0 | 700.5 |
| 32.5° | 1483.6 | 1369.3 | 1263.4 | 1154.7 | 1052.5 | 954.1 | 856.5 | 781.3 | 725.5 | 667.9 | 606.6 |
| 35° | 1504.0 | 1358.2 | 1230.0 | 1107.3 | 994.9 | 892.8 | 790.6 | 707.9 | 634.5 | 563.9 | 502.6 |
| 37.5° | 1509.6 | 1339.6 | 1186.3 | 1054.4 | 926.2 | 814.7 | 718.1 | 621.5 | 548.1 | 471.9 | 401.3 |
| 40° | 1506.8 | 1304.3 | 1131.5 | 971.7 | 837.0 | 729.2 | 635.4 | 547.2 | 466.3 | 398.5 | 330.7 |
| 42.5° | 1495.7 | 1264.3 | 1066.5 | 903.9 | 768.3 | 665.2 | 578.8 | 489.6 | 417.1 | 344.7 | 287.1 |
| 45° | 1491.9 | 1225.3 | 1017.2 | 851.9 | 721.8 | 620.6 | 536.0 | 449.6 | 373.5 | 304.7 | 247.1 |
| 47.5° | 1483.6 | 1190.0 | 971.7 | 811.9 | 683.7 | 586.2 | 498.9 | 414.3 | 335.4 | 273.1 | 217.4 |
| 50° | 1465.0 | 1151.9 | 938.3 | 781.3 | 652.1 | 551.8 | 462.6 | 371.6 | 294.5 | 233.2 | 190.4 |
| 52.5° | 1445.5 | 1127.8 | 916.9 | 750.6 | 618.7 | 510.9 | 422.7 | 330.7 | 258.3 | 200.7 | 168.1 |
| 55° | 1426.0 | 1109.2 | 888.1 | 714.4 | 575.0 | 469.1 | 380.0 | 295.4 | 227.6 | 178.4 | 155.1 |
| 57.5° | 1404.6 | 1084.1 | 852.8 | 667.9 | 525.8 | 422.7 | 333.5 | 253.6 | 197.9 | 160.7 | 144.9 |
| 60° | 1387.0 | 1048.8 | 791.5 | 602.9 | 459.8 | 357.7 | 276.8 | 211.8 | 168.1 | 144.9 | 138.4 |
| 62.5° | 1340.5 | 981.0 | 703.2 | 507.2 | 373.5 | 279.6 | 210.9 | 165.4 | 141.2 | 130.1 | 131.0 |
| 65° | 1228.1 | 829.6 | 558.3 | 395.7 | 262.0 | 187.7 | 150.5 | 126.3 | 115.2 | 115.2 | 118.0 |
| 67.5° | 1034.9 | 631.7 | 395.7 | 251.8 | 171.9 | 135.6 | 115.2 | 105.0 | 103.1 | 105.0 | 109.6 |
| 70° | 733.0 | 409.7 | 248.0 | 164.4 | 129.1 | 109.6 | 99.4 | 95.7 | 93.8 | 95.7 | 97.5 |
| 72.5° | 451.5 | 241.5 | 157.9 | 128.2 | 110.5 | 98.5 | 92.0 | 89.2 | 88.3 | 88.3 | 87.3 |
| 75° | 246.2 | 161.6 | 126.3 | 111.5 | 100.3 | 91.0 | 84.5 | 79.9 | 79.0 | 79.9 | 78.0 |
| 77.5° | 157.0 | 126.3 | 112.4 | 103.1 | 92.9 | 80.8 | 75.2 | 71.5 | 71.5 | 70.6 | 68.7 |
| 80° | 122.6 | 112.4 | 103.1 | 93.8 | 78.0 | 68.7 | 63.2 | 62.2 | 61.3 | 60.4 | 60.4 |
| 82.5° | 92.0 | 89.2 | 84.5 | 76.2 | 62.2 | 54.8 | 52.0 | 52.0 | 51.1 | 48.3 | 48.3 |
| 85° | 53.0 | 52.0 | 55.7 | 49.2 | 41.8 | 36.2 | 36.2 | 37.2 | 38.1 | 37.2 | 34.4 |
| 87.5° | 17.7 | 14.9 | 15.8 | 15.8 | 13.0 | 10.2 | 13.9 | 16.7 | 15.8 | 13.9 | 16.7 |
| 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: P141413

CATALOG NUMBER: ECM-F04-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0° | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 |
| 2.5° | 954.1 | 955.9 | 959.6 | 955.9 | 954.1 | 954.1 | 952.2 | 953.1 | 950.3 | 947.6 | 948.5 |
| 5° | 977.3 | 975.4 | 977.3 | 974.5 | 968.9 | 968.0 | 964.3 | 964.3 | 960.6 | 956.9 | 955.0 |
| 7.5° | 1003.3 | 1000.5 | 1001.4 | 995.9 | 989.4 | 984.7 | 980.1 | 978.2 | 973.6 | 968.0 | 964.3 |
| 10° | 1023.7 | 1020.9 | 1019.1 | 1012.6 | 1004.2 | 999.6 | 993.1 | 989.4 | 984.7 | 977.3 | 973.6 |
| 12.5° | 1036.7 | 1030.2 | 1026.5 | 1015.4 | 1007.9 | 1003.3 | 995.9 | 994.0 | 988.4 | 981.9 | 979.1 |
| 15° | 1034.0 | 1019.1 | 1007.9 | 994.9 | 984.7 | 978.2 | 971.7 | 969.9 | 967.1 | 964.3 | 958.7 |
| 17.5° | 988.4 | 969.9 | 957.8 | 930.8 | 916.0 | 909.5 | 908.5 | 907.6 | 905.8 | 905.8 | 899.3 |
| 20° | 925.3 | 903.9 | 885.3 | 859.3 | 839.8 | 833.3 | 815.6 | 811.0 | 805.4 | 811.0 | 805.4 |
| 22.5° | 868.6 | 841.7 | 820.3 | 798.9 | 775.7 | 757.1 | 733.9 | 722.7 | 707.0 | 703.2 | 705.1 |
| 25° | 808.2 | 774.8 | 747.8 | 722.7 | 697.7 | 671.7 | 650.3 | 634.5 | 624.3 | 610.3 | 597.3 |
| 27.5° | 734.8 | 707.0 | 670.7 | 650.3 | 620.6 | 591.8 | 569.5 | 552.7 | 534.2 | 523.0 | 504.4 |
| 30° | 660.5 | 617.8 | 581.5 | 552.7 | 520.2 | 506.3 | 484.9 | 467.3 | 450.6 | 438.5 | 422.7 |
| 32.5° | 563.9 | 519.3 | 481.2 | 447.8 | 425.5 | 406.0 | 393.0 | 378.1 | 369.7 | 359.5 | 349.3 |
| 35° | 461.7 | 406.0 | 360.4 | 345.6 | 320.5 | 321.4 | 314.9 | 307.5 | 301.0 | 291.7 | 290.8 |
| 37.5° | 348.4 | 304.7 | 275.0 | 256.4 | 252.7 | 247.1 | 248.0 | 247.1 | 245.3 | 242.5 | 242.5 |
| 40° | 275.9 | 236.9 | 217.4 | 213.7 | 213.7 | 212.7 | 211.8 | 211.8 | 211.8 | 209.9 | 209.0 |
| 42.5° | 236.0 | 208.1 | 201.6 | 199.7 | 197.9 | 196.9 | 195.1 | 192.3 | 192.3 | 190.4 | 187.7 |
| 45° | 208.1 | 192.3 | 190.4 | 188.6 | 188.6 | 185.8 | 183.0 | 181.2 | 180.2 | 179.3 | 177.4 |
| 47.5° | 190.4 | 182.1 | 180.2 | 178.4 | 177.4 | 175.6 | 172.8 | 170.0 | 169.1 | 168.1 | 168.1 |
| 50° | 170.9 | 165.4 | 165.4 | 165.4 | 162.6 | 160.7 | 157.9 | 156.1 | 156.1 | 155.1 | 154.2 |
| 52.5° | 157.0 | 154.2 | 153.3 | 152.4 | 150.5 | 147.7 | 145.8 | 144.9 | 144.0 | 144.9 | 144.0 |
| 55° | 150.5 | 148.6 | 147.7 | 145.8 | 144.0 | 141.2 | 139.3 | 136.6 | 135.6 | 137.5 | 137.5 |
| 57.5° | 143.1 | 142.1 | 141.2 | 139.3 | 137.5 | 133.8 | 131.0 | 129.1 | 129.1 | 131.9 | 131.0 |
| 60° | 140.3 | 139.3 | 138.4 | 137.5 | 134.7 | 130.1 | 125.4 | 123.6 | 123.6 | 126.3 | 126.3 |
| 62.5° | 133.8 | 132.8 | 131.9 | 131.0 | 127.3 | 123.6 | 118.9 | 117.1 | 118.0 | 119.8 | 122.6 |
| 65° | 121.7 | 122.6 | 121.7 | 121.7 | 118.9 | 116.1 | 113.3 | 111.5 | 110.5 | 111.5 | 114.3 |
| 67.5° | 110.5 | 111.5 | 111.5 | 111.5 | 110.5 | 107.8 | 105.9 | 103.1 | 101.3 | 102.2 | 103.1 |
| 70° | 100.3 | 101.3 | 102.2 | 102.2 | 100.3 | 97.5 | 94.8 | 92.0 | 91.0 | 92.0 | 92.0 |
| 72.5° | 89.2 | 89.2 | 89.2 | 90.1 | 89.2 | 88.3 | 84.5 | 80.8 | 80.8 | 79.9 | 80.8 |
| 75° | 78.0 | 78.0 | 78.0 | 78.0 | 76.2 | 76.2 | 74.3 | 70.6 | 69.7 | 70.6 | 71.5 |
| 77.5° | 68.7 | 66.9 | 66.0 | 66.0 | 66.0 | 64.1 | 63.2 | 63.2 | 62.2 | 62.2 | 62.2 |
| 80° | 56.7 | 54.8 | 53.0 | 52.0 | 53.0 | 53.0 | 54.8 | 54.8 | 53.9 | 53.9 | 53.9 |
| 82.5° | 44.6 | 40.9 | 39.9 | 39.9 | 38.1 | 39.9 | 43.7 | 48.3 | 46.4 | 47.4 | 47.4 |
| 85° | 32.5 | 28.8 | 26.9 | 26.9 | 25.1 | 28.8 | 33.4 | 37.2 | 35.3 | 37.2 | 36.2 |
| 87.5° | 14.9 | 13.9 | 11.1 | 9.3 | 11.1 | 16.7 | 19.5 | 20.4 | 17.7 | 21.4 | 21.4 |
| 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: P141413

CATALOG NUMBER: ECM-F04-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 |
| 2.5° | 952.2 | 948.5 | 947.6 | 948.5 | 946.6 | 949.4 | 949.4 | 948.5 | 948.5 | 947.6 | 949.4 |
| 5° | 957.8 | 953.1 | 950.3 | 950.3 | 948.5 | 951.3 | 949.4 | 948.5 | 947.6 | 947.6 | 947.6 |
| 7.5° | 966.1 | 959.6 | 955.0 | 952.2 | 948.5 | 948.5 | 945.7 | 942.9 | 941.1 | 940.1 | 940.1 |
| 10° | 973.6 | 964.3 | 956.9 | 950.3 | 944.8 | 940.1 | 935.5 | 929.0 | 927.1 | 925.3 | 926.2 |
| 12.5° | 972.6 | 962.4 | 951.3 | 941.1 | 928.1 | 922.5 | 910.4 | 903.0 | 903.0 | 898.3 | 901.1 |
| 15° | 952.2 | 934.6 | 918.8 | 902.0 | 886.2 | 875.1 | 860.2 | 851.9 | 847.2 | 846.3 | 852.8 |
| 17.5° | 890.9 | 874.2 | 859.3 | 840.7 | 820.3 | 812.9 | 802.6 | 798.9 | 796.1 | 800.8 | 805.4 |
| 20° | 808.2 | 786.8 | 772.9 | 761.8 | 761.8 | 759.9 | 755.3 | 748.8 | 743.2 | 742.3 | 747.8 |
| 22.5° | 691.2 | 682.8 | 685.6 | 678.2 | 678.2 | 674.4 | 681.9 | 669.8 | 676.3 | 670.7 | 673.5 |
| 25° | 593.6 | 589.9 | 588.0 | 587.1 | 587.1 | 593.6 | 592.7 | 594.5 | 588.0 | 591.8 | 590.8 |
| 27.5° | 505.4 | 500.7 | 494.2 | 497.9 | 501.6 | 506.3 | 508.2 | 509.1 | 514.7 | 504.4 | 508.2 |
| 30° | 420.8 | 413.4 | 418.0 | 414.3 | 416.2 | 415.3 | 415.3 | 415.3 | 419.0 | 426.4 | 420.8 |
| 32.5° | 344.7 | 340.9 | 345.6 | 339.1 | 340.0 | 340.0 | 338.1 | 335.4 | 337.2 | 328.9 | 335.4 |
| 35° | 285.2 | 280.6 | 284.3 | 281.5 | 278.7 | 271.3 | 268.5 | 263.8 | 264.8 | 262.9 | 262.0 |
| 37.5° | 238.7 | 237.8 | 235.0 | 235.0 | 233.2 | 232.2 | 227.6 | 228.5 | 229.5 | 231.3 | 231.3 |
| 40° | 206.2 | 205.3 | 204.4 | 206.2 | 207.2 | 208.1 | 209.9 | 211.8 | 214.6 | 217.4 | 220.2 |
| 42.5° | 187.7 | 187.7 | 187.7 | 191.4 | 194.2 | 198.8 | 201.6 | 205.3 | 209.0 | 213.7 | 217.4 |
| 45° | 176.5 | 175.6 | 177.4 | 180.2 | 184.9 | 189.5 | 194.2 | 199.7 | 205.3 | 209.9 | 212.7 |
| 47.5° | 167.2 | 166.3 | 168.1 | 170.9 | 175.6 | 183.0 | 189.5 | 196.0 | 202.5 | 207.2 | 209.0 |
| 50° | 155.1 | 155.1 | 156.1 | 158.9 | 163.5 | 170.0 | 176.5 | 183.9 | 190.4 | 194.2 | 196.0 |
| 52.5° | 145.8 | 146.8 | 146.8 | 149.6 | 154.2 | 159.8 | 166.3 | 172.8 | 177.4 | 180.2 | 183.9 |
| 55° | 136.6 | 138.4 | 138.4 | 141.2 | 145.8 | 152.4 | 160.7 | 166.3 | 171.9 | 175.6 | 178.4 |
| 57.5° | 130.1 | 131.0 | 131.0 | 134.7 | 140.3 | 145.8 | 154.2 | 161.6 | 168.1 | 172.8 | 176.5 |
| 60° | 124.5 | 125.4 | 124.5 | 129.1 | 133.8 | 140.3 | 147.7 | 156.1 | 165.4 | 171.9 | 174.6 |
| 62.5° | 119.8 | 119.8 | 118.9 | 122.6 | 125.4 | 129.1 | 135.6 | 144.9 | 153.3 | 158.9 | 161.6 |
| 65° | 114.3 | 114.3 | 112.4 | 116.1 | 116.1 | 121.7 | 126.3 | 134.7 | 141.2 | 147.7 | 149.6 |
| 67.5° | 103.1 | 105.0 | 104.0 | 106.8 | 110.5 | 114.3 | 119.8 | 126.3 | 132.8 | 137.5 | 140.3 |
| 70° | 92.0 | 92.9 | 95.7 | 97.5 | 101.3 | 103.1 | 107.8 | 112.4 | 118.9 | 121.7 | 124.5 |
| 72.5° | 81.8 | 82.7 | 84.5 | 86.4 | 90.1 | 92.0 | 95.7 | 99.4 | 105.0 | 107.8 | 110.5 |
| 75° | 71.5 | 72.5 | 73.4 | 75.2 | 77.1 | 79.0 | 80.8 | 84.5 | 88.3 | 92.0 | 94.8 |
| 77.5° | 61.3 | 62.2 | 65.0 | 64.1 | 66.0 | 66.9 | 69.7 | 71.5 | 73.4 | 77.1 | 80.8 |
| 80° | 53.9 | 53.0 | 54.8 | 55.7 | 57.6 | 57.6 | 59.5 | 59.5 | 62.2 | 62.2 | 63.2 |
| 82.5° | 45.5 | 44.6 | 46.4 | 49.2 | 50.2 | 50.2 | 52.0 | 48.3 | 47.4 | 48.3 | 51.1 |
| 85° | 34.4 | 35.3 | 36.2 | 39.9 | 40.9 | 40.9 | 42.7 | 39.9 | 36.2 | 36.2 | 38.1 |
| 87.5° | 19.5 | 14.9 | 21.4 | 25.1 | 25.1 | 26.0 | 27.9 | 26.9 | 26.0 | 20.4 | 21.4 |
| 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: P141413
 CATALOG NUMBER: ECM-F04-LED-E1-SLL-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 0° |
| 2.5° | 948.5 | 949.4 | 950.3 | 951.3 | 952.2 | 951.3 | 953.1 | 951.3 | 952.2 | 950.3 | 949.4 | 2.5° |
| 5° | 947.6 | 948.5 | 948.5 | 950.3 | 951.3 | 948.5 | 950.3 | 947.6 | 947.6 | 945.7 | 942.9 | 5° |
| 7.5° | 941.1 | 942.9 | 942.9 | 944.8 | 944.8 | 942.0 | 942.0 | 936.4 | 934.6 | 928.1 | 923.4 | 7.5° |
| 10° | 928.1 | 930.8 | 932.7 | 936.4 | 938.3 | 933.6 | 930.8 | 924.3 | 916.9 | 909.5 | 902.0 | 10° |
| 12.5° | 905.8 | 906.7 | 913.2 | 918.8 | 921.5 | 924.3 | 922.5 | 921.5 | 914.1 | 909.5 | 906.7 | 12.5° |
| 15° | 854.7 | 862.1 | 868.6 | 881.6 | 890.9 | 901.1 | 908.5 | 916.9 | 920.6 | 925.3 | 927.1 | 15° |
| 17.5° | 810.1 | 818.4 | 823.1 | 834.2 | 843.5 | 859.3 | 878.8 | 900.2 | 915.0 | 933.6 | 951.3 | 17.5° |
| 20° | 747.8 | 761.8 | 765.5 | 783.1 | 795.2 | 815.6 | 837.0 | 864.0 | 893.7 | 922.5 | 954.1 | 20° |
| 22.5° | 678.2 | 684.7 | 692.1 | 710.7 | 725.5 | 751.5 | 784.1 | 821.2 | 855.6 | 895.5 | 941.1 | 22.5° |
| 25° | 593.6 | 602.0 | 609.4 | 629.8 | 651.2 | 675.4 | 714.4 | 759.9 | 803.6 | 856.5 | 916.0 | 25° |
| 27.5° | 510.0 | 516.5 | 529.5 | 544.4 | 568.5 | 594.5 | 642.9 | 693.0 | 743.2 | 807.3 | 877.9 | 27.5° |
| 30° | 422.7 | 429.2 | 435.7 | 453.3 | 478.4 | 509.1 | 552.7 | 612.2 | 671.7 | 740.4 | 824.0 | 30° |
| 32.5° | 339.1 | 340.9 | 353.9 | 366.9 | 388.3 | 414.3 | 461.7 | 519.3 | 583.4 | 667.0 | 749.7 | 32.5° |
| 35° | 264.8 | 275.9 | 281.5 | 299.1 | 312.1 | 339.1 | 379.0 | 432.0 | 498.9 | 583.4 | 672.6 | 35° |
| 37.5° | 235.0 | 238.7 | 246.2 | 259.2 | 276.8 | 301.0 | 328.9 | 369.7 | 427.3 | 498.9 | 582.5 | 37.5° |
| 40° | 223.9 | 227.6 | 233.2 | 243.4 | 260.1 | 282.4 | 305.6 | 338.1 | 382.7 | 439.4 | 514.7 | 40° |
| 42.5° | 220.2 | 221.1 | 223.0 | 232.2 | 249.0 | 274.0 | 301.9 | 332.6 | 366.9 | 412.5 | 471.9 | 42.5° |
| 45° | 215.5 | 215.5 | 216.5 | 223.0 | 237.8 | 263.8 | 299.1 | 338.1 | 377.2 | 418.0 | 468.2 | 45° |
| 47.5° | 211.8 | 212.7 | 211.8 | 214.6 | 225.7 | 250.8 | 289.8 | 337.2 | 389.2 | 442.2 | 497.0 | 47.5° |
| 50° | 196.9 | 196.9 | 197.9 | 198.8 | 207.2 | 231.3 | 269.4 | 321.4 | 385.5 | 457.1 | 532.3 | 50° |
| 52.5° | 184.9 | 186.7 | 186.7 | 188.6 | 194.2 | 213.7 | 251.8 | 306.6 | 376.2 | 459.8 | 561.1 | 52.5° |
| 55° | 181.2 | 183.0 | 183.9 | 183.9 | 187.7 | 204.4 | 240.6 | 292.6 | 366.0 | 457.1 | 572.3 | 55° |
| 57.5° | 178.4 | 180.2 | 181.2 | 180.2 | 183.0 | 196.9 | 230.4 | 281.5 | 354.9 | 450.6 | 576.9 | 57.5° |
| 60° | 175.6 | 176.5 | 174.6 | 172.8 | 173.7 | 185.8 | 215.5 | 265.7 | 341.9 | 441.3 | 575.0 | 60° |
| 62.5° | 162.6 | 163.5 | 161.6 | 159.8 | 157.9 | 167.2 | 194.2 | 243.4 | 314.9 | 419.9 | 560.2 | 62.5° |
| 65° | 151.4 | 151.4 | 151.4 | 149.6 | 147.7 | 153.3 | 172.8 | 214.6 | 276.8 | 381.8 | 525.8 | 65° |
| 67.5° | 142.1 | 141.2 | 141.2 | 140.3 | 138.4 | 140.3 | 152.4 | 181.2 | 229.5 | 321.4 | 463.6 | 67.5° |
| 70° | 127.3 | 126.3 | 127.3 | 126.3 | 124.5 | 124.5 | 130.1 | 145.8 | 178.4 | 236.0 | 360.4 | 70° |
| 72.5° | 112.4 | 113.3 | 115.2 | 115.2 | 115.2 | 116.1 | 116.1 | 120.8 | 138.4 | 169.1 | 245.3 | 72.5° |
| 75° | 96.6 | 97.5 | 100.3 | 104.0 | 102.2 | 103.1 | 103.1 | 105.9 | 115.2 | 133.8 | 171.9 | 75° |
| 77.5° | 81.8 | 84.5 | 88.3 | 89.2 | 86.4 | 86.4 | 88.3 | 92.9 | 101.3 | 112.4 | 131.0 | 77.5° |
| 80° | 66.9 | 70.6 | 71.5 | 73.4 | 74.3 | 74.3 | 76.2 | 79.9 | 88.3 | 102.2 | 117.1 | 80° |
| 82.5° | 53.0 | 55.7 | 58.5 | 61.3 | 63.2 | 66.0 | 66.9 | 68.7 | 77.1 | 91.0 | 107.8 | 82.5° |
| 85° | 39.9 | 42.7 | 46.4 | 49.2 | 51.1 | 53.9 | 53.0 | 53.9 | 58.5 | 69.7 | 81.8 | 85° |
| 87.5° | 24.2 | 24.2 | 26.9 | 27.9 | 28.8 | 28.8 | 30.7 | 26.9 | 28.8 | 37.2 | 44.6 | 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° |



NUMBER: P141413

NUMBER: ECM-F04-LED-E1-SLL-8030

DISTRIBUTION (continued):

| 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 | 947.6 |
| 950.3 | 949.4 | 948.5 | 949.4 | 951.3 | 951.3 | 948.5 |
| 943.8 | 941.1 | 939.2 | 939.2 | 939.2 | 938.3 | 936.4 |
| 921.5 | 916.9 | 914.1 | 912.3 | 911.3 | 911.3 | 907.6 |
| 897.4 | 894.6 | 889.0 | 887.2 | 888.1 | 890.9 | 890.0 |
| 903.0 | 894.6 | 891.8 | 891.8 | 890.9 | 895.5 | 894.6 |
| 933.6 | 933.6 | 929.9 | 929.0 | 927.1 | 932.7 | 932.7 |
| 966.1 | 974.5 | 978.2 | 974.5 | 975.4 | 976.4 | 983.8 |
| 983.8 | 1007.9 | 1020.9 | 1031.2 | 1032.1 | 1037.7 | 1036.7 |
| 986.6 | 1030.2 | 1064.6 | 1086.9 | 1107.3 | 1117.6 | 1115.7 |
| 972.6 | 1033.0 | 1093.4 | 1150.1 | 1192.8 | 1216.0 | 1235.5 |
| 954.1 | 1025.6 | 1103.6 | 1183.5 | 1253.2 | 1315.4 | 1354.5 |
| 910.4 | 1001.4 | 1101.8 | 1204.0 | 1303.4 | 1392.5 | 1465.0 |
| 849.1 | 954.1 | 1073.9 | 1208.6 | 1348.0 | 1471.5 | 1577.4 |
| 767.3 | 879.7 | 1025.6 | 1191.0 | 1374.9 | 1558.8 | 1718.6 |
| 679.1 | 802.6 | 962.4 | 1161.2 | 1388.8 | 1628.5 | 1847.7 |
| 602.0 | 723.7 | 898.3 | 1123.1 | 1387.0 | 1674.0 | 1942.5 |
| 551.8 | 666.1 | 842.6 | 1086.9 | 1377.7 | 1700.0 | 2016.8 |
| 535.1 | 638.2 | 805.4 | 1058.1 | 1372.1 | 1718.6 | 2067.9 |
| 557.4 | 646.6 | 797.1 | 1045.1 | 1370.2 | 1740.0 | 2112.5 |
| 609.4 | 693.0 | 828.7 | 1066.5 | 1387.0 | 1761.3 | 2157.1 |
| 658.6 | 758.0 | 897.4 | 1127.8 | 1449.2 | 1823.6 | 2218.4 |
| 698.6 | 828.7 | 971.7 | 1208.6 | 1538.4 | 1920.2 | 2310.4 |
| 720.9 | 883.5 | 1068.3 | 1321.0 | 1660.1 | 2062.3 | 2460.9 |
| 730.2 | 921.5 | 1151.0 | 1439.0 | 1813.4 | 2224.9 | 2651.3 |
| 726.5 | 939.2 | 1210.5 | 1546.8 | 1951.8 | 2403.3 | 2867.8 |
| 703.2 | 939.2 | 1247.6 | 1633.1 | 2067.9 | 2545.4 | 3058.2 |
| 647.5 | 906.7 | 1251.3 | 1683.3 | 2157.1 | 2665.2 | 3214.3 |
| 545.3 | 812.9 | 1189.1 | 1677.7 | 2185.0 | 2703.3 | 3296.0 |
| 381.8 | 606.6 | 992.2 | 1516.1 | 2066.1 | 2613.2 | 3205.9 |
| 236.9 | 378.1 | 710.7 | 1172.4 | 1719.5 | 2217.5 | 2852.9 |
| 166.3 | 229.5 | 406.9 | 742.3 | 1183.5 | 1652.7 | 2130.2 |
| 138.4 | 169.1 | 232.2 | 408.8 | 711.6 | 1018.2 | 1339.6 |
| 119.8 | 136.6 | 161.6 | 233.2 | 362.3 | 542.5 | 746.0 |
| 89.2 | 99.4 | 111.5 | 153.3 | 228.5 | 335.4 | 510.0 |
| 36.2 | 40.9 | 45.5 | 61.3 | 140.3 | 193.2 | 207.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)