

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: P142057

Luminaire Tested: **ECM-F04-LED-E1-T4-7060**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P142057  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33685)  
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-T4-7060  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (28) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9744 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

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

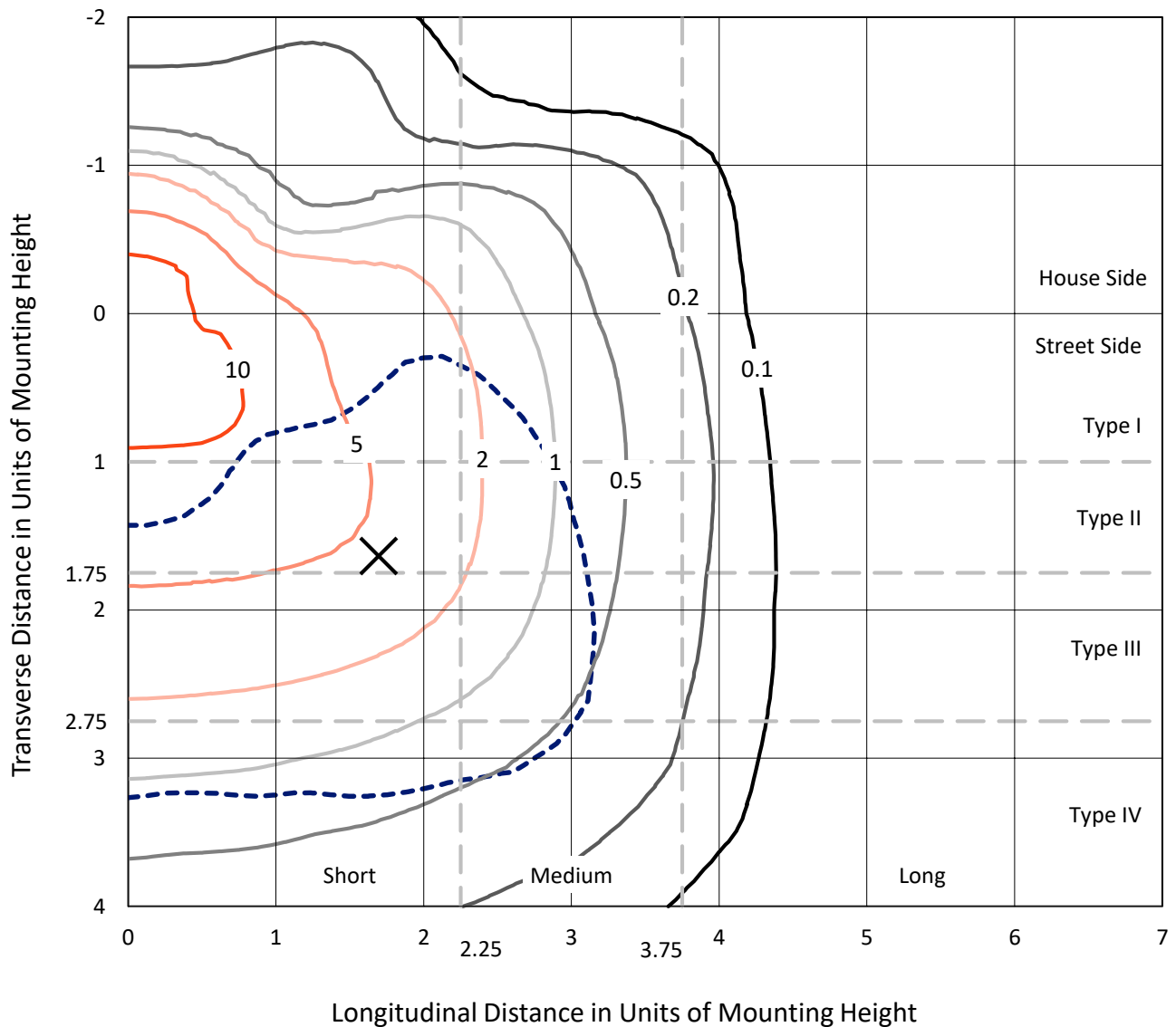


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### Iso-Footcandle Lines of Horizontal Illumination

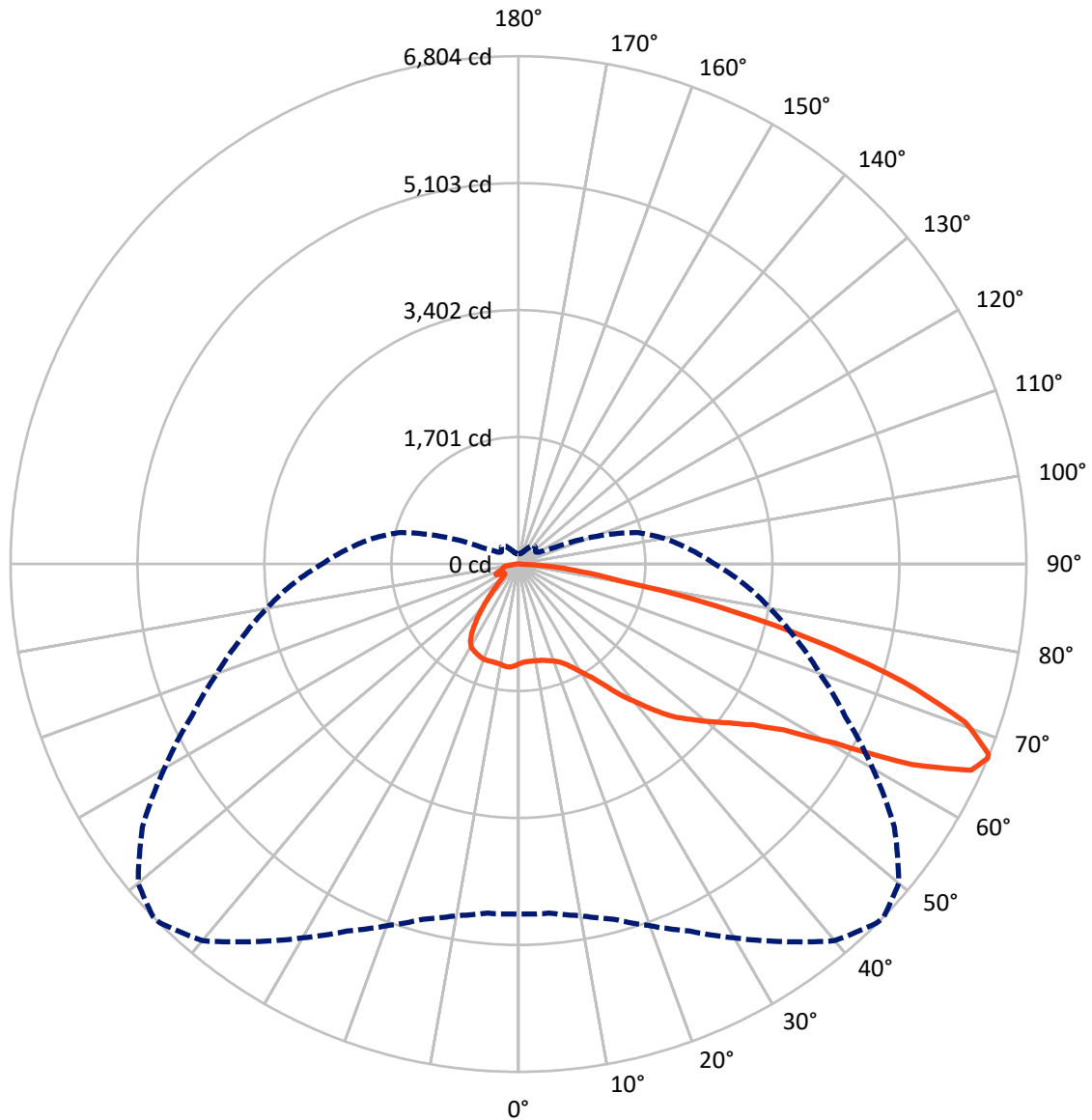
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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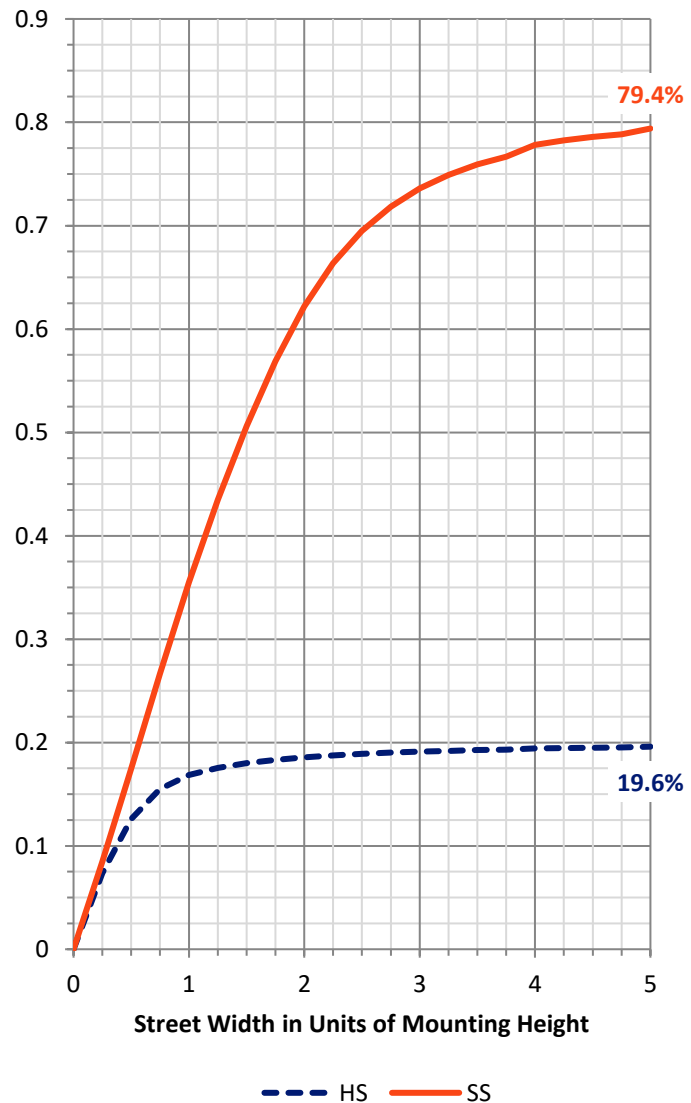
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1936.3   | 0.0    | 1936.3 |
|                    | % Fixture | 19.9     | 0.0    | 19.9   |
| <b>Street Side</b> | Lumens    | 7807.6   | 0.0    | 7807.6 |
|                    | % Fixture | 80.1     | 0.0    | 80.1   |
| <b>Total</b>       | Lumens    | 9744.0   | 0.0    | 9744.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.5  | 1.3       |
| 10°-20°   | 383.5  | 3.9       |
| 20°-30°   | 644.8  | 6.6       |
| 30°-40°   | 964.3  | 9.9       |
| 40°-50°   | 1256.0 | 12.9      |
| 50°-60°   | 1720.2 | 17.7      |
| 60°-70°   | 2719.4 | 27.9      |
| 70°-80°   | 1686.9 | 17.3      |
| 80°-90°   | 240.4  | 2.5       |
| 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°    | 9744.0 | 100.0     |
| 0°-180°   | 9744.0 | 100.0     |



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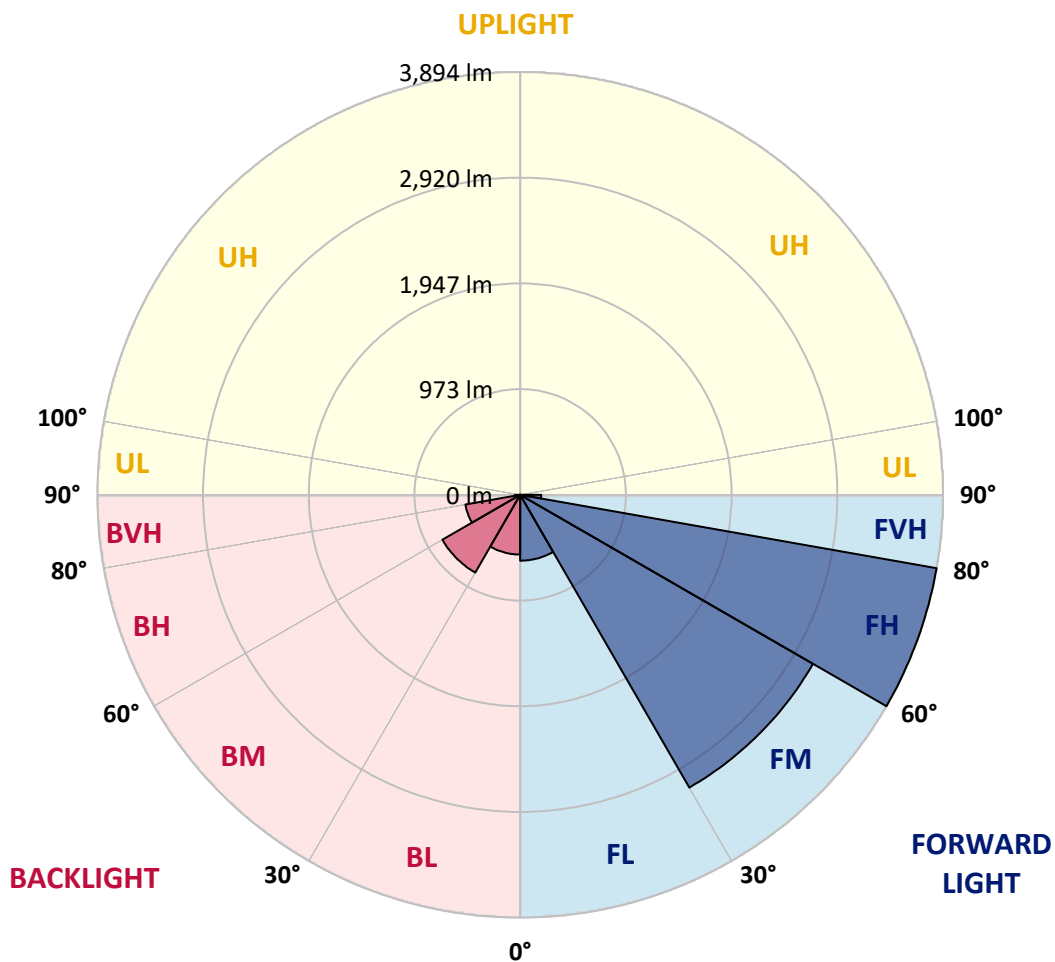
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 606.8  | 6.2       |                         |      |         |
| FM (30°-60°)   | 3113.6 | 32.0      |                         |      |         |
| FH (60°-80°)   | 3893.7 | 40.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 193.6  | 2.0       |                         |      | G2/225  |
| BL (0°-30°)    | 550.0  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 826.9  | 8.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 512.6  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 46.8   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 46°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 |
| 2.5°  | 1305.6 | 1309.0 | 1307.9 | 1306.8 | 1307.9 | 1309.0 | 1310.1 | 1313.5 | 1314.7 | 1315.8 | 1316.9 |
| 5°    | 1281.9 | 1285.3 | 1284.2 | 1286.4 | 1287.6 | 1292.1 | 1295.5 | 1301.1 | 1304.5 | 1309.0 | 1311.3 |
| 7.5°  | 1275.1 | 1277.4 | 1277.4 | 1279.6 | 1280.8 | 1285.3 | 1290.9 | 1297.7 | 1304.5 | 1311.3 | 1313.5 |
| 10°   | 1293.2 | 1294.3 | 1294.3 | 1293.2 | 1294.3 | 1296.6 | 1298.8 | 1304.5 | 1310.1 | 1315.8 | 1318.0 |
| 12.5° | 1336.1 | 1332.7 | 1331.6 | 1328.2 | 1329.3 | 1324.8 | 1324.8 | 1323.7 | 1323.7 | 1324.8 | 1324.8 |
| 15°   | 1381.3 | 1379.0 | 1376.8 | 1371.1 | 1371.1 | 1364.4 | 1362.1 | 1357.6 | 1346.3 | 1341.8 | 1340.6 |
| 17.5° | 1422.0 | 1419.7 | 1415.2 | 1410.7 | 1408.4 | 1399.4 | 1397.1 | 1389.2 | 1375.7 | 1365.5 | 1362.1 |
| 20°   | 1470.5 | 1464.9 | 1454.7 | 1452.5 | 1446.8 | 1436.6 | 1433.3 | 1423.1 | 1405.0 | 1390.3 | 1389.2 |
| 22.5° | 1545.1 | 1536.0 | 1525.9 | 1518.0 | 1503.3 | 1493.1 | 1484.1 | 1470.5 | 1449.1 | 1432.1 | 1427.6 |
| 25°   | 1619.6 | 1616.2 | 1607.2 | 1595.9 | 1585.7 | 1574.4 | 1563.1 | 1542.8 | 1514.6 | 1493.1 | 1488.6 |
| 27.5° | 1724.6 | 1716.7 | 1705.4 | 1687.4 | 1681.7 | 1662.5 | 1653.5 | 1636.6 | 1608.3 | 1581.2 | 1576.7 |
| 30°   | 1834.2 | 1826.3 | 1808.2 | 1792.4 | 1789.0 | 1768.7 | 1763.0 | 1745.0 | 1720.1 | 1693.0 | 1689.6 |
| 32.5° | 1959.6 | 1951.7 | 1938.1 | 1929.1 | 1916.6 | 1905.4 | 1891.8 | 1874.9 | 1843.2 | 1820.6 | 1816.1 |
| 35°   | 2119.9 | 2113.2 | 2097.4 | 2104.1 | 2092.8 | 2089.5 | 2081.5 | 2053.3 | 2018.3 | 1991.2 | 1995.7 |
| 37.5° | 2246.4 | 2245.3 | 2248.7 | 2245.3 | 2260.0 | 2274.7 | 2274.7 | 2276.9 | 2260.0 | 2230.6 | 2225.0 |
| 40°   | 2365.0 | 2363.9 | 2372.9 | 2383.1 | 2422.6 | 2446.4 | 2473.5 | 2483.6 | 2465.6 | 2443.0 | 2435.1 |
| 42.5° | 2475.7 | 2473.5 | 2485.9 | 2523.2 | 2571.7 | 2615.8 | 2662.1 | 2701.6 | 2710.6 | 2685.8 | 2680.1 |
| 45°   | 2585.3 | 2588.7 | 2604.5 | 2646.3 | 2710.6 | 2768.2 | 2847.3 | 2893.6 | 2923.0 | 2909.4 | 2918.5 |
| 47.5° | 2717.4 | 2720.8 | 2737.7 | 2787.4 | 2843.9 | 2916.2 | 3008.8 | 3087.9 | 3122.9 | 3122.9 | 3111.6 |
| 50°   | 2874.4 | 2890.2 | 2908.3 | 2942.2 | 3007.7 | 3078.8 | 3191.8 | 3270.8 | 3327.3 | 3325.1 | 3316.0 |
| 52.5° | 3083.4 | 3086.7 | 3116.1 | 3143.2 | 3199.7 | 3272.0 | 3373.6 | 3482.0 | 3553.2 | 3546.4 | 3536.3 |
| 55°   | 3364.6 | 3351.0 | 3370.2 | 3396.2 | 3457.2 | 3520.4 | 3631.1 | 3756.5 | 3828.8 | 3807.3 | 3800.5 |
| 57.5° | 3719.2 | 3707.9 | 3721.5 | 3753.1 | 3829.9 | 3881.9 | 3971.1 | 4086.3 | 4187.9 | 4206.0 | 4190.2 |
| 60°   | 4230.9 | 4230.9 | 4258.0 | 4325.7 | 4403.7 | 4481.6 | 4595.7 | 4734.6 | 4839.6 | 4865.6 | 4864.5 |
| 62.5° | 4837.4 | 4875.8 | 4881.4 | 4969.5 | 5118.6 | 5253.0 | 5430.3 | 5675.4 | 5832.4 | 5944.2 | 5914.8 |
| 65°   | 4934.5 | 4946.9 | 4996.6 | 5133.3 | 5335.4 | 5573.8 | 5849.3 | 6171.2 | 6497.6 | 6659.1 | 6663.7 |
| 67°   | 4690.5 | 4695.1 | 4782.0 | 4925.5 | 5157.0 | 5425.8 | 5782.7 | 6174.6 | 6588.0 | 6796.9 | 6803.7 |
| 67.5° | 4614.9 | 4605.8 | 4683.8 | 4834.0 | 5087.0 | 5389.7 | 5725.1 | 6137.3 | 6564.3 | 6787.9 | 6791.3 |
| 70°   | 4107.8 | 4112.3 | 4173.3 | 4340.4 | 4608.1 | 4891.6 | 5266.6 | 5690.1 | 6139.6 | 6344.0 | 6354.2 |
| 72.5° | 3541.9 | 3512.5 | 3567.9 | 3746.3 | 3874.0 | 4150.7 | 4495.1 | 4814.8 | 5210.1 | 5403.2 | 5398.7 |
| 75°   | 2701.6 | 2620.3 | 2717.4 | 2821.3 | 2892.5 | 3166.9 | 3381.5 | 3601.8 | 3966.6 | 4113.4 | 4105.5 |
| 77.5° | 1455.8 | 1452.5 | 1558.6 | 1639.9 | 1746.1 | 1993.5 | 2182.1 | 2321.0 | 2628.2 | 2700.5 | 2709.5 |
| 80°   | 790.6  | 820.0  | 883.2  | 973.6  | 1059.4 | 1178.0 | 1287.6 | 1374.5 | 1475.0 | 1428.7 | 1418.6 |
| 82.5° | 476.6  | 525.2  | 622.3  | 691.2  | 725.1  | 778.2  | 856.1  | 905.8  | 945.3  | 859.5  | 842.6  |
| 85°   | 75.7   | 136.7  | 351.3  | 420.1  | 456.3  | 481.1  | 498.1  | 530.8  | 484.5  | 454.0  | 461.9  |
| 87.5° | 24.8   | 28.2   | 54.2   | 119.7  | 105.0  | 72.3   | 94.9   | 137.8  | 65.5   | 35.0   | 33.9   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 |
| 2.5°  | 1318.0 | 1319.2 | 1322.6 | 1327.1 | 1329.3 | 1335.0 | 1335.0 | 1339.5 | 1339.5 | 1342.9 | 1346.3 |
| 5°    | 1314.7 | 1320.3 | 1324.8 | 1331.6 | 1335.0 | 1342.9 | 1346.3 | 1353.1 | 1356.5 | 1361.0 | 1365.5 |
| 7.5°  | 1320.3 | 1328.2 | 1333.9 | 1341.8 | 1347.4 | 1355.3 | 1358.7 | 1364.4 | 1367.7 | 1373.4 | 1375.7 |
| 10°   | 1324.8 | 1332.7 | 1339.5 | 1348.5 | 1353.1 | 1358.7 | 1362.1 | 1366.6 | 1367.7 | 1371.1 | 1373.4 |
| 12.5° | 1330.5 | 1333.9 | 1339.5 | 1347.4 | 1351.9 | 1355.3 | 1358.7 | 1362.1 | 1365.5 | 1365.5 | 1365.5 |
| 15°   | 1338.4 | 1335.0 | 1336.1 | 1342.9 | 1347.4 | 1349.7 | 1353.1 | 1355.3 | 1356.5 | 1356.5 | 1354.2 |
| 17.5° | 1355.3 | 1346.3 | 1340.6 | 1340.6 | 1342.9 | 1345.2 | 1345.2 | 1341.8 | 1339.5 | 1336.1 | 1331.6 |
| 20°   | 1380.2 | 1365.5 | 1354.2 | 1348.5 | 1344.0 | 1338.4 | 1329.3 | 1318.0 | 1307.9 | 1298.8 | 1293.2 |
| 22.5° | 1415.2 | 1400.5 | 1386.9 | 1374.5 | 1359.8 | 1340.6 | 1321.4 | 1297.7 | 1278.5 | 1263.8 | 1258.2 |
| 25°   | 1480.7 | 1459.2 | 1449.1 | 1429.9 | 1407.3 | 1376.8 | 1347.4 | 1314.7 | 1292.1 | 1271.7 | 1262.7 |
| 27.5° | 1568.8 | 1551.8 | 1529.3 | 1519.1 | 1489.7 | 1454.7 | 1422.0 | 1382.4 | 1350.8 | 1326.0 | 1309.0 |
| 30°   | 1680.6 | 1669.3 | 1650.1 | 1633.2 | 1604.9 | 1573.3 | 1524.7 | 1480.7 | 1425.3 | 1381.3 | 1356.5 |
| 32.5° | 1809.4 | 1792.4 | 1775.5 | 1754.0 | 1733.7 | 1691.9 | 1646.7 | 1580.1 | 1503.3 | 1427.6 | 1381.3 |
| 35°   | 1970.9 | 1953.9 | 1942.6 | 1908.7 | 1874.9 | 1829.7 | 1768.7 | 1689.6 | 1582.3 | 1480.7 | 1401.6 |
| 37.5° | 2193.4 | 2157.2 | 2101.9 | 2053.3 | 1992.3 | 1923.4 | 1854.5 | 1759.7 | 1639.9 | 1507.8 | 1399.4 |
| 40°   | 2386.5 | 2333.4 | 2271.3 | 2187.7 | 2101.9 | 2011.5 | 1930.2 | 1827.4 | 1687.4 | 1530.4 | 1383.6 |
| 42.5° | 2637.2 | 2545.7 | 2440.7 | 2330.0 | 2212.6 | 2104.1 | 2003.6 | 1886.2 | 1722.4 | 1531.5 | 1346.3 |
| 45°   | 2863.1 | 2750.2 | 2611.3 | 2461.0 | 2317.6 | 2185.5 | 2070.3 | 1940.4 | 1751.8 | 1527.0 | 1303.4 |
| 47.5° | 3064.2 | 2932.0 | 2762.6 | 2581.9 | 2412.5 | 2263.4 | 2136.9 | 2000.2 | 1790.2 | 1541.7 | 1287.6 |
| 50°   | 3258.4 | 3107.1 | 2916.2 | 2697.1 | 2508.5 | 2345.8 | 2213.7 | 2066.9 | 1854.5 | 1591.4 | 1312.4 |
| 52.5° | 3466.2 | 3282.1 | 3066.4 | 2819.1 | 2613.5 | 2445.2 | 2297.3 | 2147.1 | 1931.3 | 1658.0 | 1357.6 |
| 55°   | 3720.4 | 3511.4 | 3265.2 | 2991.9 | 2755.8 | 2568.3 | 2401.2 | 2243.1 | 2022.8 | 1740.5 | 1410.7 |
| 57.5° | 4059.2 | 3848.0 | 3564.5 | 3249.4 | 3002.0 | 2779.5 | 2578.5 | 2400.0 | 2161.7 | 1854.5 | 1489.7 |
| 60°   | 4712.0 | 4451.1 | 4073.9 | 3731.7 | 3464.0 | 3201.9 | 2959.1 | 2715.2 | 2428.3 | 2084.9 | 1693.0 |
| 62.5° | 5760.1 | 5396.4 | 4928.9 | 4452.2 | 4090.8 | 3744.1 | 3423.3 | 3105.9 | 2747.9 | 2362.8 | 1934.7 |
| 65°   | 6485.2 | 6035.7 | 5448.4 | 4850.9 | 4361.9 | 3938.3 | 3555.5 | 3178.2 | 2779.5 | 2412.5 | 2039.8 |
| 67°   | 6651.2 | 6148.6 | 5480.0 | 4831.7 | 4299.8 | 3840.1 | 3423.3 | 3030.3 | 2629.3 | 2296.1 | 1977.6 |
| 67.5° | 6644.5 | 6143.0 | 5455.2 | 4791.1 | 4258.0 | 3805.1 | 3384.9 | 2971.5 | 2577.4 | 2251.0 | 1947.1 |
| 70°   | 6242.4 | 5738.7 | 5047.4 | 4386.7 | 3872.8 | 3422.2 | 2998.6 | 2638.4 | 2236.3 | 1972.0 | 1743.8 |
| 72.5° | 5289.1 | 4850.9 | 4293.0 | 3698.9 | 3258.4 | 2855.2 | 2516.4 | 2162.9 | 1813.9 | 1637.7 | 1458.1 |
| 75°   | 4021.9 | 3633.4 | 3121.8 | 2686.9 | 2351.5 | 2071.4 | 1731.4 | 1498.8 | 1253.7 | 1132.8 | 1068.4 |
| 77.5° | 2657.6 | 2211.4 | 1857.9 | 1443.4 | 1197.2 | 977.0  | 770.3  | 611.0  | 510.5  | 536.5  | 586.2  |
| 80°   | 1406.1 | 1115.9 | 825.6  | 639.3  | 493.6  | 384.0  | 304.9  | 228.1  | 166.0  | 194.3  | 244.0  |
| 82.5° | 765.8  | 652.8  | 482.3  | 384.0  | 314.0  | 259.8  | 199.9  | 140.0  | 103.9  | 115.2  | 166.0  |
| 85°   | 437.1  | 384.0  | 298.2  | 232.7  | 203.3  | 166.0  | 114.1  | 76.8   | 74.5   | 80.2   | 102.8  |
| 87.5° | 72.3   | 97.1   | 79.1   | 54.2   | 61.0   | 59.9   | 53.1   | 40.7   | 30.5   | 42.9   | 55.3   |
| 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: ECM-F04-LED-E1-T4-7060

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 |
| 2.5°  | 1348.5 | 1351.9 | 1356.5 | 1357.6 | 1356.5 | 1359.8 | 1365.5 | 1370.0 | 1366.6 | 1364.4 | 1370.0 |
| 5°    | 1370.0 | 1372.3 | 1377.9 | 1377.9 | 1379.0 | 1381.3 | 1384.7 | 1388.1 | 1383.6 | 1383.6 | 1385.8 |
| 7.5°  | 1379.0 | 1379.0 | 1384.7 | 1382.4 | 1382.4 | 1381.3 | 1384.7 | 1385.8 | 1379.0 | 1377.9 | 1379.0 |
| 10°   | 1373.4 | 1373.4 | 1375.7 | 1371.1 | 1370.0 | 1368.9 | 1368.9 | 1370.0 | 1363.2 | 1361.0 | 1364.4 |
| 12.5° | 1365.5 | 1365.5 | 1363.2 | 1361.0 | 1358.7 | 1356.5 | 1358.7 | 1359.8 | 1355.3 | 1355.3 | 1356.5 |
| 15°   | 1351.9 | 1348.5 | 1347.4 | 1347.4 | 1348.5 | 1349.7 | 1354.2 | 1357.6 | 1354.2 | 1351.9 | 1351.9 |
| 17.5° | 1329.3 | 1327.1 | 1330.5 | 1337.3 | 1345.2 | 1350.8 | 1357.6 | 1359.8 | 1351.9 | 1342.9 | 1336.1 |
| 20°   | 1295.5 | 1301.1 | 1313.5 | 1332.7 | 1349.7 | 1358.7 | 1358.7 | 1350.8 | 1332.7 | 1314.7 | 1305.6 |
| 22.5° | 1260.4 | 1276.3 | 1303.4 | 1332.7 | 1353.1 | 1356.5 | 1344.0 | 1327.1 | 1302.2 | 1283.0 | 1266.1 |
| 25°   | 1265.0 | 1284.2 | 1311.3 | 1336.1 | 1349.7 | 1344.0 | 1321.4 | 1300.0 | 1270.6 | 1250.3 | 1225.4 |
| 27.5° | 1312.4 | 1330.5 | 1344.0 | 1351.9 | 1347.4 | 1329.3 | 1303.4 | 1274.0 | 1241.2 | 1213.0 | 1183.6 |
| 30°   | 1350.8 | 1358.7 | 1357.6 | 1350.8 | 1333.9 | 1305.6 | 1275.1 | 1240.1 | 1200.6 | 1170.1 | 1131.7 |
| 32.5° | 1357.6 | 1342.9 | 1320.3 | 1295.5 | 1272.9 | 1241.2 | 1206.2 | 1165.6 | 1121.5 | 1082.0 | 1043.6 |
| 35°   | 1345.2 | 1289.8 | 1240.1 | 1190.4 | 1156.5 | 1117.0 | 1086.5 | 1039.1 | 990.5  | 956.6  | 928.4  |
| 37.5° | 1298.8 | 1202.8 | 1123.8 | 1053.8 | 1004.1 | 958.9  | 912.6  | 866.3  | 825.6  | 809.8  | 801.9  |
| 40°   | 1240.1 | 1095.6 | 974.7  | 877.6  | 824.5  | 780.4  | 733.0  | 695.7  | 676.5  | 661.8  | 656.2  |
| 42.5° | 1154.3 | 973.6  | 823.4  | 719.4  | 651.7  | 611.0  | 564.7  | 544.4  | 535.4  | 538.7  | 534.2  |
| 45°   | 1074.1 | 845.9  | 657.3  | 542.1  | 495.8  | 457.4  | 434.8  | 425.8  | 421.3  | 419.0  | 422.4  |
| 47.5° | 1017.6 | 747.7  | 529.7  | 412.2  | 373.8  | 346.7  | 337.7  | 334.3  | 333.2  | 328.7  | 327.5  |
| 50°   | 1004.1 | 690.1  | 433.7  | 320.8  | 291.4  | 276.7  | 272.2  | 268.8  | 266.5  | 263.2  | 255.3  |
| 52.5° | 1019.9 | 674.3  | 386.3  | 275.6  | 250.7  | 239.4  | 236.1  | 230.4  | 228.1  | 219.1  | 208.9  |
| 55°   | 1047.0 | 679.9  | 371.6  | 263.2  | 238.3  | 225.9  | 221.4  | 219.1  | 211.2  | 201.0  | 188.6  |
| 57.5° | 1103.5 | 714.9  | 378.4  | 266.5  | 240.6  | 229.3  | 227.0  | 224.8  | 214.6  | 199.9  | 184.1  |
| 60°   | 1267.2 | 816.6  | 413.4  | 290.3  | 258.6  | 250.7  | 251.9  | 247.3  | 232.7  | 213.5  | 189.7  |
| 62.5° | 1520.2 | 974.7  | 477.8  | 319.6  | 288.0  | 288.0  | 294.8  | 291.4  | 268.8  | 237.2  | 203.3  |
| 65°   | 1651.2 | 1069.6 | 504.9  | 328.7  | 297.0  | 311.7  | 333.2  | 329.8  | 297.0  | 249.6  | 204.4  |
| 67°   | 1630.9 | 1051.5 | 489.0  | 315.1  | 280.1  | 299.3  | 320.8  | 321.9  | 285.7  | 238.3  | 195.4  |
| 67.5° | 1611.7 | 1039.1 | 481.1  | 309.5  | 275.6  | 294.8  | 315.1  | 311.7  | 281.2  | 233.8  | 193.1  |
| 70°   | 1447.9 | 912.6  | 429.2  | 289.1  | 255.3  | 260.9  | 266.5  | 262.0  | 238.3  | 206.7  | 178.5  |
| 72.5° | 1250.3 | 757.9  | 378.4  | 276.7  | 244.0  | 234.9  | 234.9  | 227.0  | 211.2  | 189.7  | 169.4  |
| 75°   | 953.2  | 589.6  | 332.1  | 263.2  | 230.4  | 216.9  | 214.6  | 208.9  | 195.4  | 179.6  | 161.5  |
| 77.5° | 581.7  | 422.4  | 288.0  | 242.8  | 213.5  | 202.2  | 203.3  | 199.9  | 186.4  | 171.7  | 154.7  |
| 80°   | 291.4  | 273.3  | 241.7  | 211.2  | 193.1  | 181.8  | 183.0  | 176.2  | 164.9  | 153.6  | 140.0  |
| 82.5° | 178.5  | 188.6  | 169.4  | 160.4  | 149.1  | 136.7  | 106.2  | 124.2  | 120.8  | 110.7  | 105.0  |
| 85°   | 118.6  | 117.5  | 106.2  | 93.7   | 85.8   | 74.5   | 66.6   | 67.8   | 74.5   | 76.8   | 76.8   |
| 87.5° | 57.6   | 55.3   | 50.8   | 47.4   | 45.2   | 37.3   | 35.0   | 39.5   | 39.5   | 41.8   | 40.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1335.0 | 1335.0 | 1335.0 | 1335.0 | 1335.0 |
| 2.5°  | 1371.1 | 1373.4 | 1372.3 | 1375.7 | 1372.3 |
| 5°    | 1386.9 | 1386.9 | 1388.1 | 1389.2 | 1388.1 |
| 7.5°  | 1379.0 | 1377.9 | 1380.2 | 1382.4 | 1381.3 |
| 10°   | 1364.4 | 1365.5 | 1367.7 | 1371.1 | 1371.1 |
| 12.5° | 1358.7 | 1359.8 | 1364.4 | 1367.7 | 1367.7 |
| 15°   | 1354.2 | 1355.3 | 1357.6 | 1362.1 | 1358.7 |
| 17.5° | 1333.9 | 1329.3 | 1329.3 | 1332.7 | 1329.3 |
| 20°   | 1297.7 | 1290.9 | 1290.9 | 1289.8 | 1288.7 |
| 22.5° | 1254.8 | 1237.9 | 1233.3 | 1227.7 | 1228.8 |
| 25°   | 1201.7 | 1179.1 | 1166.7 | 1159.9 | 1157.7 |
| 27.5° | 1158.8 | 1132.8 | 1120.4 | 1110.2 | 1106.8 |
| 30°   | 1104.6 | 1075.2 | 1065.1 | 1059.4 | 1057.2 |
| 32.5° | 1025.5 | 999.5  | 986.0  | 982.6  | 975.8  |
| 35°   | 905.8  | 894.5  | 888.9  | 881.0  | 882.1  |
| 37.5° | 786.1  | 782.7  | 769.1  | 773.7  | 769.1  |
| 40°   | 657.3  | 656.2  | 658.5  | 655.1  | 663.0  |
| 42.5° | 536.5  | 533.1  | 538.7  | 535.4  | 538.7  |
| 45°   | 415.6  | 422.4  | 430.3  | 426.9  | 431.4  |
| 47.5° | 318.5  | 319.6  | 317.4  | 319.6  | 321.9  |
| 50°   | 245.1  | 242.8  | 240.6  | 236.1  | 238.3  |
| 52.5° | 202.2  | 194.3  | 188.6  | 185.2  | 184.1  |
| 55°   | 178.5  | 170.5  | 166.0  | 161.5  | 161.5  |
| 57.5° | 171.7  | 161.5  | 154.7  | 151.3  | 150.2  |
| 60°   | 172.8  | 159.3  | 150.2  | 144.6  | 143.4  |
| 62.5° | 177.3  | 159.3  | 146.8  | 141.2  | 138.9  |
| 65°   | 176.2  | 157.0  | 144.6  | 138.9  | 136.7  |
| 67°   | 170.5  | 153.6  | 143.4  | 137.8  | 136.7  |
| 67.5° | 168.3  | 152.5  | 143.4  | 137.8  | 135.5  |
| 70°   | 160.4  | 149.1  | 141.2  | 135.5  | 133.3  |
| 72.5° | 153.6  | 144.6  | 135.5  | 131.0  | 128.8  |
| 75°   | 146.8  | 137.8  | 129.9  | 125.4  | 124.2  |
| 77.5° | 140.0  | 129.9  | 124.2  | 118.6  | 114.1  |
| 80°   | 127.6  | 116.3  | 108.4  | 99.4   | 97.1   |
| 82.5° | 105.0  | 96.0   | 88.1   | 80.2   | 79.1   |
| 85°   | 77.9   | 74.5   | 67.8   | 61.0   | 61.0   |
| 87.5° | 42.9   | 47.4   | 41.8   | 38.4   | 36.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)