

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: P141394

Luminaire Tested: **ECM-F02-LED-E1-SLL-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141394  
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-F02-LED-E1-SLL-7030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3944.2 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

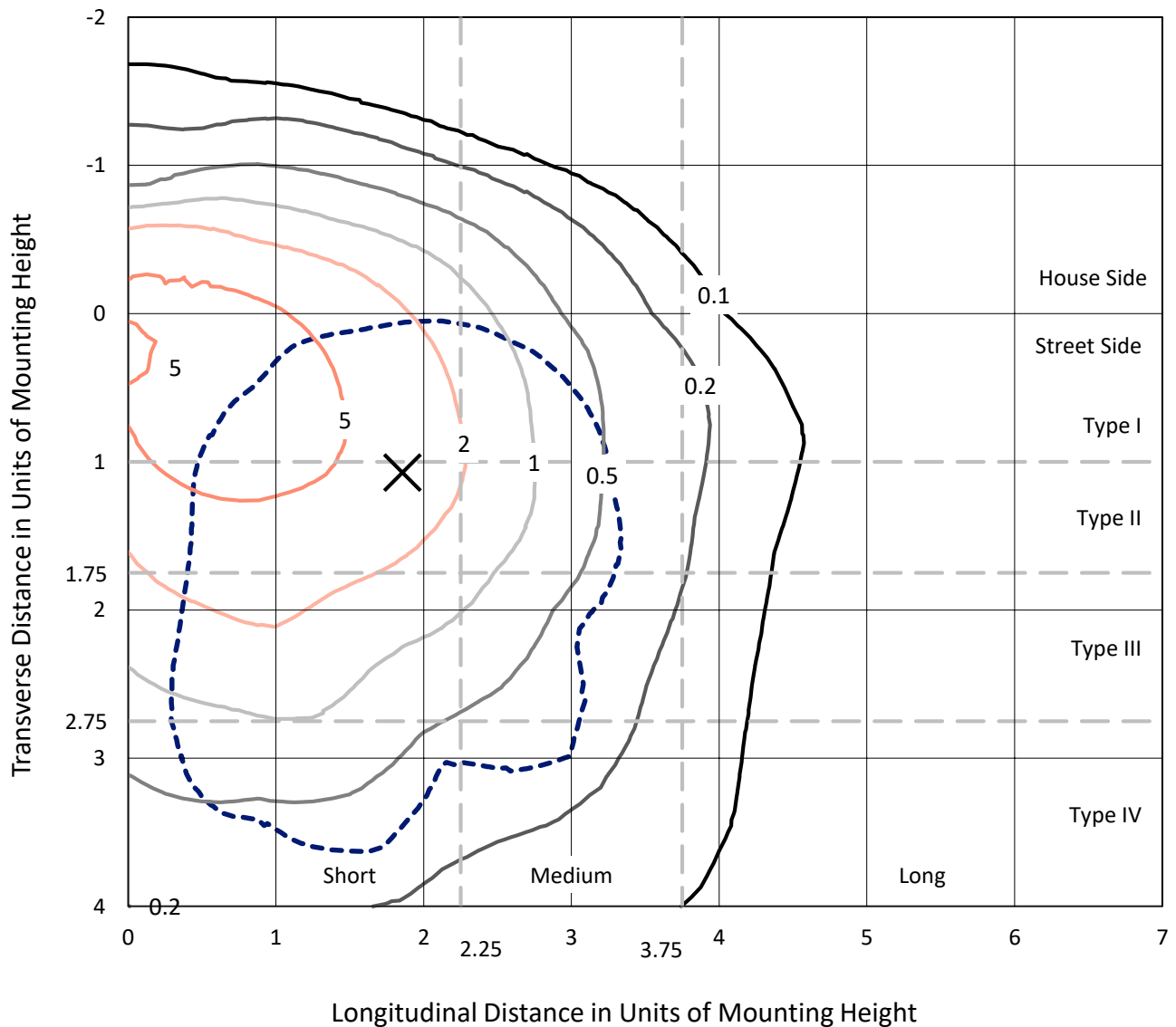
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

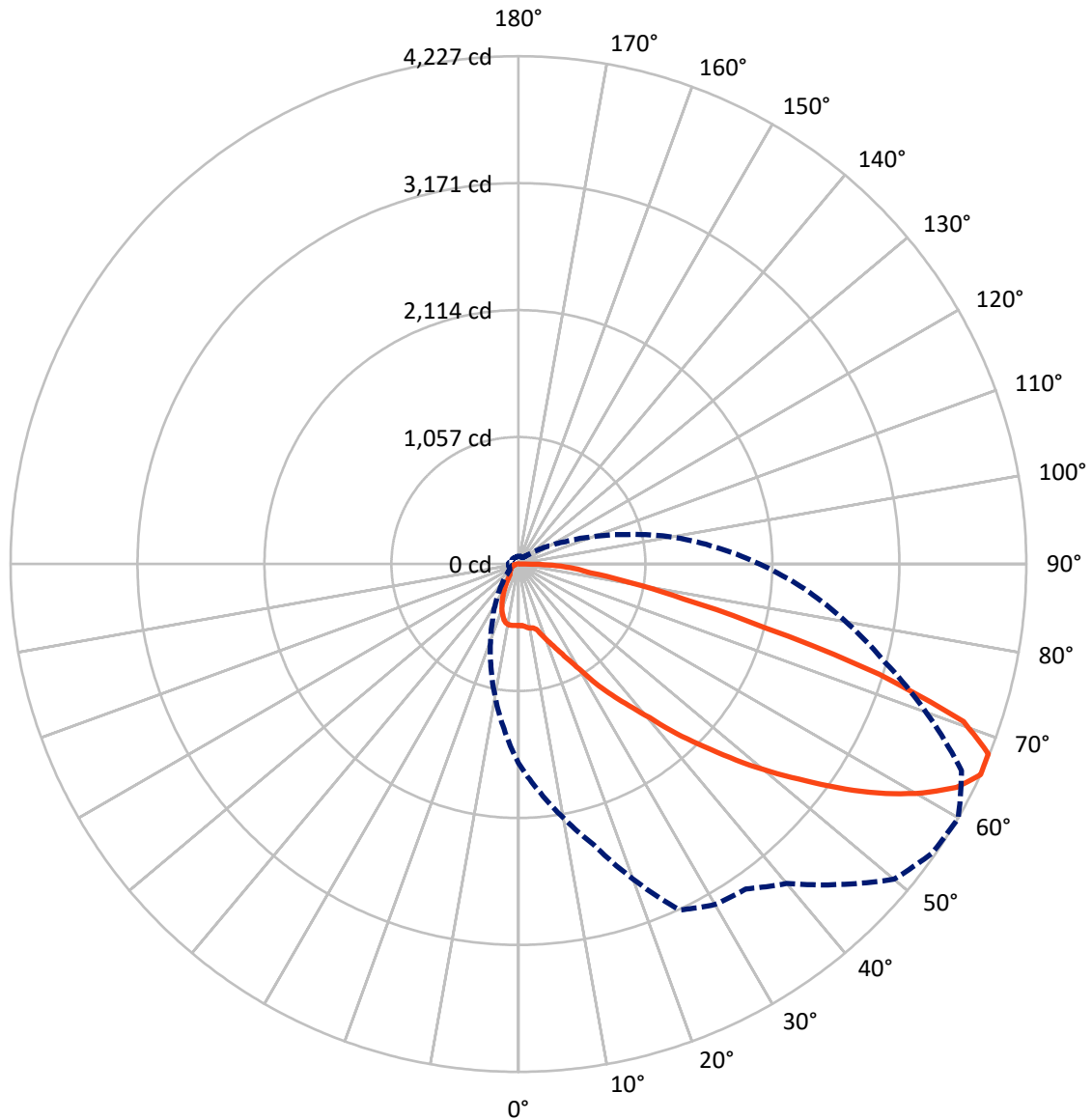
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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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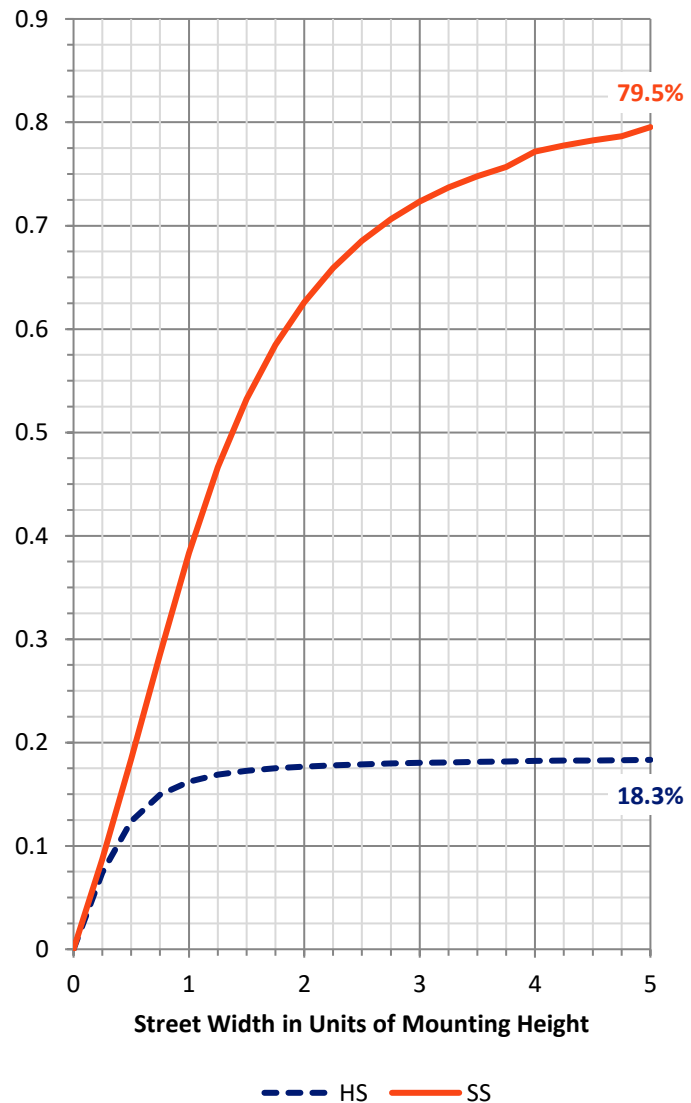
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 731.6    | 0.0    | 731.6  |
|                    | % Fixture | 18.5     | 0.0    | 18.5   |
| <b>Street Side</b> | Lumens    | 3212.6   | 0.0    | 3212.6 |
|                    | % Fixture | 81.5     | 0.0    | 81.5   |
| <b>Total</b>       | Lumens    | 3944.2   | 0.0    | 3944.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.6   | 1.3       |
| 10°-20°   | 149.0  | 3.8       |
| 20°-30°   | 247.5  | 6.3       |
| 30°-40°   | 361.8  | 9.2       |
| 40°-50°   | 550.4  | 14.0      |
| 50°-60°   | 791.2  | 20.1      |
| 60°-70°   | 972.7  | 24.7      |
| 70°-80°   | 650.7  | 16.5      |
| 80°-90°   | 171.2  | 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°    | 3944.2 | 100.0     |
| 0°-180°   | 3944.2 | 100.0     |



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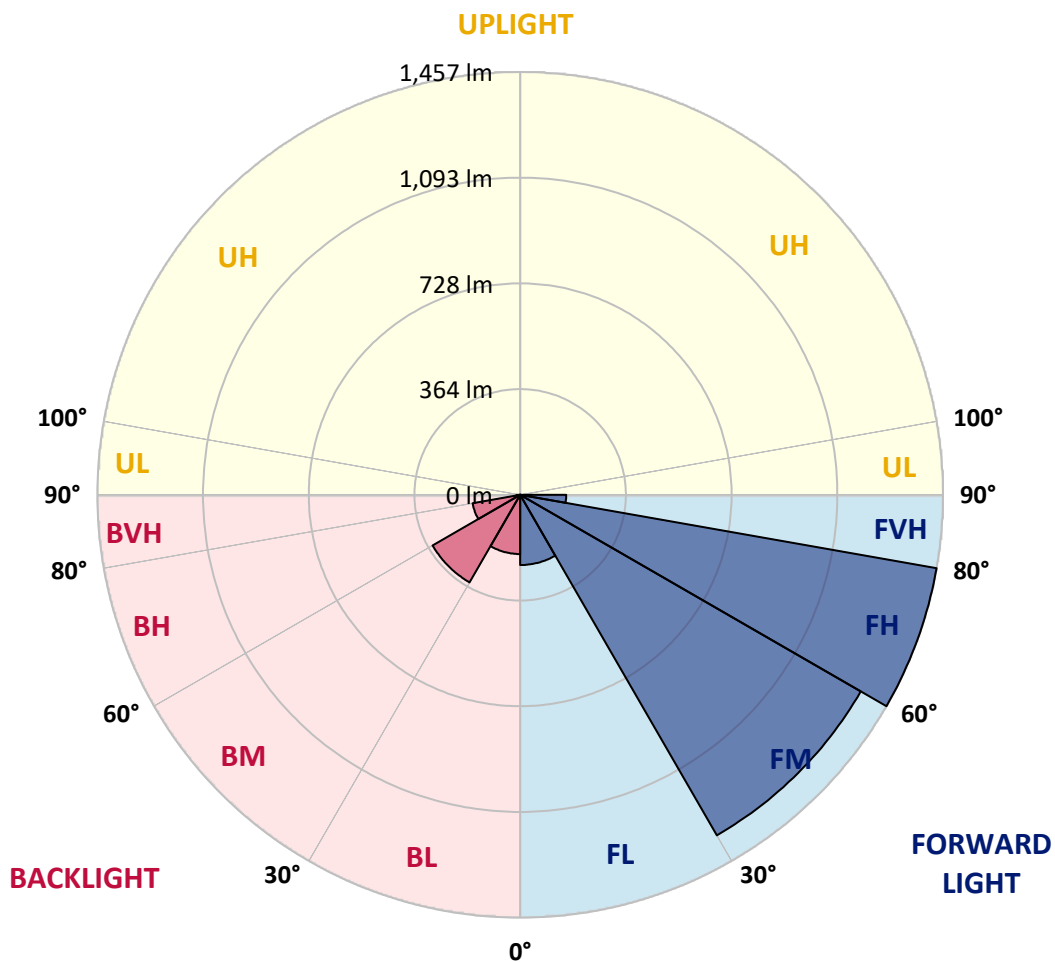
CATALOG NUMBER: ECM-F02-LED-E1-SLL-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 241.9  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 1355.0 | 34.4      |                         |      |         |
| FH   | (60°-80°)   | 1457.0 | 36.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 158.8  | 4.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 204.2  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 348.5  | 8.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 166.5  | 4.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.4   | 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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  |
| 2.5°  | 513.2  | 513.7  | 513.7  | 513.2  | 512.7  | 513.2  | 512.2  | 513.2  | 512.7  | 512.2  | 512.7  |
| 5°    | 506.7  | 507.2  | 508.2  | 508.2  | 509.2  | 511.2  | 511.7  | 514.2  | 515.7  | 516.2  | 518.2  |
| 7.5°  | 491.1  | 493.6  | 495.1  | 497.1  | 500.1  | 505.2  | 508.7  | 514.7  | 519.3  | 523.3  | 528.8  |
| 10°   | 481.6  | 484.6  | 487.6  | 492.1  | 496.6  | 503.2  | 509.2  | 516.7  | 522.8  | 528.8  | 535.3  |
| 12.5° | 484.1  | 487.6  | 491.6  | 495.1  | 502.2  | 508.2  | 515.7  | 524.8  | 527.8  | 533.8  | 539.4  |
| 15°   | 504.7  | 507.7  | 510.7  | 514.7  | 521.3  | 528.3  | 538.4  | 548.4  | 550.4  | 556.9  | 563.0  |
| 17.5° | 532.3  | 532.8  | 537.8  | 544.9  | 550.9  | 562.5  | 574.5  | 588.1  | 596.7  | 600.7  | 604.2  |
| 20°   | 561.0  | 562.5  | 570.5  | 577.1  | 590.6  | 605.7  | 623.3  | 643.4  | 650.4  | 668.0  | 674.6  |
| 22.5° | 603.7  | 603.2  | 612.7  | 621.8  | 636.9  | 653.0  | 678.6  | 706.2  | 722.3  | 735.9  | 740.9  |
| 25°   | 668.5  | 670.0  | 668.5  | 681.6  | 697.2  | 723.3  | 749.0  | 776.6  | 786.2  | 809.8  | 820.8  |
| 27.5° | 732.9  | 744.4  | 760.0  | 764.0  | 783.1  | 813.3  | 833.4  | 863.1  | 886.2  | 892.7  | 910.8  |
| 30°   | 792.7  | 816.8  | 842.5  | 864.1  | 898.3  | 935.0  | 965.1  | 998.8  | 1000.3 | 1012.4 | 1017.4 |
| 32.5° | 853.5  | 891.2  | 928.9  | 956.6  | 989.7  | 1038.5 | 1094.3 | 1149.1 | 1184.8 | 1221.5 | 1202.9 |
| 35°   | 929.9  | 988.7  | 1041.5 | 1084.2 | 1112.4 | 1157.6 | 1222.0 | 1310.9 | 1368.2 | 1412.0 | 1437.1 |
| 37.5° | 999.8  | 1088.8 | 1169.7 | 1230.5 | 1299.4 | 1331.6 | 1373.8 | 1438.1 | 1504.0 | 1544.7 | 1565.8 |
| 40°   | 1051.1 | 1172.7 | 1287.3 | 1375.3 | 1462.7 | 1539.7 | 1592.9 | 1645.2 | 1734.2 | 1785.0 | 1789.0 |
| 42.5° | 1091.3 | 1246.1 | 1384.3 | 1510.5 | 1639.2 | 1746.8 | 1811.1 | 1877.4 | 1990.5 | 2049.4 | 2044.8 |
| 45°   | 1118.9 | 1300.9 | 1472.3 | 1627.6 | 1783.4 | 1923.7 | 2047.8 | 2146.4 | 2262.0 | 2374.1 | 2351.5 |
| 47.5° | 1143.1 | 1346.1 | 1542.2 | 1717.6 | 1904.6 | 2079.5 | 2234.3 | 2373.1 | 2525.9 | 2677.2 | 2686.2 |
| 50°   | 1167.2 | 1382.8 | 1605.5 | 1807.6 | 2018.2 | 2237.9 | 2424.8 | 2603.3 | 2794.3 | 2986.8 | 3031.1 |
| 52.5° | 1200.4 | 1424.0 | 1664.3 | 1889.5 | 2134.3 | 2366.0 | 2574.6 | 2796.8 | 3033.1 | 3219.0 | 3344.7 |
| 55°   | 1250.1 | 1481.3 | 1737.2 | 1971.4 | 2238.4 | 2493.7 | 2724.4 | 2980.8 | 3197.9 | 3427.7 | 3606.6 |
| 57.5° | 1331.6 | 1557.8 | 1821.6 | 2060.9 | 2338.9 | 2609.3 | 2849.1 | 3118.0 | 3325.1 | 3580.0 | 3804.7 |
| 60°   | 1434.6 | 1661.8 | 1917.2 | 2167.0 | 2457.0 | 2771.7 | 3013.5 | 3212.5 | 3420.1 | 3678.0 | 3948.4 |
| 62.5° | 1551.7 | 1779.4 | 2033.8 | 2291.6 | 2621.4 | 2962.2 | 3169.8 | 3283.4 | 3464.3 | 3745.3 | 4041.4 |
| 65°   | 1654.8 | 1889.5 | 2143.4 | 2416.8 | 2789.8 | 3177.3 | 3272.8 | 3301.5 | 3470.9 | 3772.5 | 4081.6 |
| 67.5° | 1739.2 | 2009.1 | 2245.9 | 2518.3 | 2967.2 | 3314.1 | 3274.8 | 3217.5 | 3381.9 | 3706.6 | 4004.7 |
| 70°   | 1783.4 | 2062.4 | 2294.7 | 2527.4 | 3004.9 | 3333.2 | 3195.9 | 3040.1 | 3115.0 | 3432.7 | 3682.0 |
| 72.5° | 1734.7 | 2020.7 | 2204.2 | 2348.9 | 2779.2 | 3097.9 | 2923.0 | 2628.9 | 2697.3 | 3004.9 | 3069.3 |
| 75°   | 1543.7 | 1889.0 | 1996.1 | 1991.0 | 2222.8 | 2387.6 | 2261.0 | 2073.5 | 2247.9 | 2376.1 | 2310.2 |
| 77.5° | 1152.6 | 1547.2 | 1607.0 | 1496.9 | 1546.2 | 1684.9 | 1565.3 | 1711.1 | 1922.7 | 1980.5 | 1855.8 |
| 80°   | 724.8  | 1134.0 | 1140.5 | 1003.3 | 977.2  | 1031.5 | 1185.8 | 1495.9 | 1698.0 | 1685.9 | 1521.1 |
| 82.5° | 403.6  | 735.4  | 805.3  | 679.6  | 647.4  | 780.6  | 1056.1 | 1221.0 | 1194.3 | 1184.3 | 969.6  |
| 85°   | 276.0  | 502.2  | 613.8  | 588.6  | 650.9  | 778.6  | 866.1  | 774.1  | 745.4  | 634.9  | 515.2  |
| 87.5° | 112.1  | 226.2  | 380.5  | 437.3  | 464.0  | 569.5  | 498.6  | 406.2  | 312.7  | 296.6  | 254.8  |
| 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°    | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  | 512.7  |
| 2.5°  | 511.2  | 512.2  | 512.2  | 512.7  | 513.2  | 513.7  | 513.7  | 513.7  | 514.2  | 514.7  | 514.2  |
| 5°    | 518.7  | 520.3  | 521.3  | 521.3  | 522.3  | 523.3  | 524.3  | 523.8  | 525.3  | 526.3  | 526.8  |
| 7.5°  | 530.8  | 533.8  | 536.3  | 538.4  | 539.4  | 539.4  | 539.4  | 537.8  | 539.4  | 539.9  | 540.4  |
| 10°   | 539.4  | 542.9  | 543.4  | 545.4  | 544.9  | 544.4  | 543.4  | 542.4  | 542.9  | 543.9  | 545.4  |
| 12.5° | 541.9  | 545.4  | 546.4  | 547.9  | 547.4  | 546.9  | 544.9  | 544.9  | 544.4  | 545.9  | 547.4  |
| 15°   | 562.5  | 565.5  | 570.5  | 566.0  | 566.5  | 562.5  | 559.0  | 556.9  | 555.9  | 556.9  | 558.0  |
| 17.5° | 609.7  | 614.8  | 612.7  | 605.7  | 605.2  | 596.7  | 595.2  | 585.1  | 585.1  | 585.1  | 582.1  |
| 20°   | 674.6  | 674.1  | 670.6  | 663.5  | 648.4  | 645.4  | 634.4  | 626.3  | 618.8  | 617.3  | 613.8  |
| 22.5° | 745.4  | 737.9  | 735.9  | 721.3  | 711.8  | 693.7  | 677.1  | 671.1  | 664.0  | 662.5  | 662.0  |
| 25°   | 814.3  | 817.3  | 802.8  | 795.7  | 771.6  | 755.5  | 746.0  | 730.9  | 730.9  | 728.9  | 726.3  |
| 27.5° | 900.8  | 910.8  | 894.7  | 884.7  | 862.1  | 839.4  | 822.9  | 813.8  | 804.3  | 797.7  | 779.6  |
| 30°   | 1022.9 | 1029.5 | 1018.4 | 997.8  | 969.6  | 929.4  | 906.8  | 896.7  | 879.2  | 857.0  | 827.4  |
| 32.5° | 1194.8 | 1185.8 | 1148.1 | 1111.9 | 1075.2 | 1037.0 | 1009.8 | 991.8  | 964.6  | 920.4  | 864.1  |
| 35°   | 1417.5 | 1339.6 | 1292.3 | 1242.6 | 1200.4 | 1157.6 | 1137.0 | 1104.3 | 1042.5 | 970.6  | 895.2  |
| 37.5° | 1527.1 | 1492.4 | 1438.1 | 1400.9 | 1350.7 | 1307.9 | 1261.2 | 1205.4 | 1125.5 | 1022.4 | 917.9  |
| 40°   | 1746.8 | 1681.4 | 1639.2 | 1597.0 | 1535.1 | 1476.8 | 1413.5 | 1323.5 | 1194.8 | 1066.6 | 935.5  |
| 42.5° | 1977.5 | 1929.2 | 1852.8 | 1796.5 | 1750.3 | 1653.8 | 1553.2 | 1427.6 | 1265.7 | 1106.9 | 951.5  |
| 45°   | 2278.1 | 2167.5 | 2073.0 | 2025.2 | 1934.2 | 1816.6 | 1699.5 | 1520.1 | 1331.0 | 1149.1 | 969.6  |
| 47.5° | 2580.2 | 2437.9 | 2340.4 | 2251.4 | 2154.4 | 1996.6 | 1814.1 | 1600.5 | 1381.3 | 1184.3 | 984.7  |
| 50°   | 2904.4 | 2716.9 | 2604.3 | 2497.7 | 2337.9 | 2146.9 | 1914.6 | 1666.8 | 1433.6 | 1217.4 | 998.3  |
| 52.5° | 3234.1 | 2997.4 | 2836.5 | 2712.4 | 2514.3 | 2278.1 | 2005.6 | 1735.7 | 1489.4 | 1249.6 | 1009.3 |
| 55°   | 3530.7 | 3308.5 | 3100.9 | 2909.4 | 2671.1 | 2396.7 | 2089.1 | 1797.5 | 1539.7 | 1283.3 | 1016.4 |
| 57.5° | 3799.6 | 3606.1 | 3358.3 | 3101.4 | 2815.4 | 2506.8 | 2166.0 | 1864.4 | 1586.9 | 1307.9 | 1015.9 |
| 60°   | 3984.1 | 3871.0 | 3613.6 | 3300.5 | 2966.2 | 2607.8 | 2258.5 | 1938.8 | 1628.6 | 1325.5 | 1011.9 |
| 62.5° | 4116.8 | 4094.2 | 3869.5 | 3492.0 | 3089.4 | 2698.8 | 2347.9 | 2000.6 | 1658.8 | 1327.5 | 994.8  |
| 65°   | 4199.7 | 4227.4 | 4069.6 | 3613.6 | 3158.2 | 2768.2 | 2392.2 | 2006.1 | 1637.2 | 1294.4 | 949.5  |
| 67.5° | 4147.5 | 4218.8 | 4068.5 | 3560.9 | 3092.4 | 2703.3 | 2327.3 | 1913.6 | 1522.1 | 1191.3 | 848.0  |
| 70°   | 3823.2 | 3930.3 | 3782.0 | 3211.0 | 2770.2 | 2453.0 | 2088.6 | 1643.7 | 1309.4 | 981.2  | 670.0  |
| 72.5° | 2998.9 | 3140.1 | 3010.4 | 2618.9 | 2293.1 | 2027.7 | 1757.3 | 1290.8 | 998.3  | 720.8  | 450.4  |
| 75°   | 2069.0 | 2123.2 | 2045.8 | 1775.4 | 1675.4 | 1571.8 | 1319.0 | 867.6  | 659.5  | 444.9  | 264.9  |
| 77.5° | 1605.0 | 1408.5 | 1260.2 | 1149.6 | 1147.6 | 1128.5 | 863.1  | 519.3  | 394.6  | 244.8  | 147.3  |
| 80°   | 1206.9 | 947.5  | 782.1  | 684.1  | 711.3  | 795.2  | 503.2  | 266.4  | 204.1  | 135.2  | 90.5   |
| 82.5° | 794.2  | 604.7  | 482.6  | 427.3  | 431.8  | 498.6  | 252.8  | 146.8  | 100.5  | 76.9   | 58.8   |
| 85°   | 484.1  | 470.0  | 419.2  | 380.5  | 350.9  | 342.8  | 196.5  | 112.6  | 55.8   | 39.7   | 30.2   |
| 87.5° | 236.3  | 280.0  | 341.8  | 346.3  | 297.6  | 252.3  | 102.0  | 32.2   | 23.6   | 12.6   | 9.0    |
| 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):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 |
| 2.5°  | 514.7 | 517.2 | 516.2 | 515.7 | 515.7 | 518.2 | 518.2 | 517.2 | 517.2 | 517.7 | 517.7 |
| 5°    | 526.8 | 529.3 | 528.3 | 528.8 | 529.8 | 530.3 | 531.8 | 530.3 | 529.3 | 530.3 | 529.8 |
| 7.5°  | 540.9 | 543.4 | 542.9 | 543.9 | 544.9 | 545.9 | 546.9 | 546.4 | 545.4 | 545.4 | 544.9 |
| 10°   | 546.9 | 551.9 | 553.9 | 555.9 | 558.5 | 559.5 | 561.0 | 561.0 | 559.0 | 559.0 | 556.4 |
| 12.5° | 550.9 | 554.9 | 560.0 | 563.0 | 567.5 | 571.0 | 572.5 | 573.0 | 571.5 | 569.5 | 567.0 |
| 15°   | 559.5 | 562.5 | 567.5 | 570.5 | 576.1 | 580.6 | 583.6 | 583.1 | 581.1 | 575.5 | 568.0 |
| 17.5° | 580.6 | 580.1 | 582.1 | 584.1 | 585.6 | 588.1 | 587.1 | 582.6 | 573.0 | 563.0 | 552.4 |
| 20°   | 612.2 | 611.7 | 608.7 | 604.2 | 598.7 | 591.6 | 580.6 | 567.0 | 550.9 | 532.8 | 516.7 |
| 22.5° | 657.0 | 652.5 | 648.4 | 636.4 | 617.3 | 593.6 | 565.0 | 538.4 | 519.3 | 501.7 | 484.1 |
| 25°   | 716.3 | 705.2 | 685.6 | 657.5 | 627.3 | 592.1 | 550.4 | 514.7 | 490.6 | 470.0 | 452.4 |
| 27.5° | 753.5 | 727.9 | 695.2 | 656.5 | 616.3 | 571.0 | 524.8 | 489.6 | 462.4 | 439.8 | 419.7 |
| 30°   | 785.2 | 738.9 | 693.2 | 643.9 | 593.1 | 546.4 | 497.6 | 459.9 | 428.3 | 403.1 | 379.0 |
| 32.5° | 802.8 | 740.9 | 683.6 | 624.8 | 569.5 | 516.2 | 463.5 | 422.7 | 392.6 | 361.4 | 328.2 |
| 35°   | 813.8 | 734.9 | 665.5 | 599.2 | 538.4 | 483.1 | 427.8 | 383.0 | 343.3 | 305.1 | 271.9 |
| 37.5° | 816.8 | 724.8 | 641.9 | 570.5 | 501.2 | 440.8 | 388.6 | 336.3 | 296.6 | 255.4 | 217.2 |
| 40°   | 815.3 | 705.7 | 612.2 | 525.8 | 452.9 | 394.6 | 343.8 | 296.1 | 252.3 | 215.6 | 178.9 |
| 42.5° | 809.3 | 684.1 | 577.1 | 489.1 | 415.7 | 359.9 | 313.2 | 264.9 | 225.7 | 186.5 | 155.3 |
| 45°   | 807.3 | 663.0 | 550.4 | 460.9 | 390.6 | 335.8 | 290.0 | 243.3 | 202.1 | 164.9 | 133.7 |
| 47.5° | 802.8 | 643.9 | 525.8 | 439.3 | 370.0 | 317.2 | 269.9 | 224.2 | 181.5 | 147.8 | 117.6 |
| 50°   | 792.7 | 623.3 | 507.7 | 422.7 | 352.9 | 298.6 | 250.3 | 201.1 | 159.3 | 126.2 | 103.0 |
| 52.5° | 782.1 | 610.2 | 496.1 | 406.2 | 334.8 | 276.5 | 228.7 | 178.9 | 139.7 | 108.6 | 91.0  |
| 55°   | 771.6 | 600.2 | 480.5 | 386.5 | 311.1 | 253.8 | 205.6 | 159.8 | 123.2 | 96.5  | 83.9  |
| 57.5° | 760.0 | 586.6 | 461.4 | 361.4 | 284.5 | 228.7 | 180.5 | 137.2 | 107.1 | 87.0  | 78.4  |
| 60°   | 750.5 | 567.5 | 428.3 | 326.2 | 248.8 | 193.5 | 149.8 | 114.6 | 91.0  | 78.4  | 74.9  |
| 62.5° | 725.3 | 530.8 | 380.5 | 274.5 | 202.1 | 151.3 | 114.1 | 89.5  | 76.4  | 70.4  | 70.9  |
| 65°   | 664.5 | 448.9 | 302.1 | 214.1 | 141.8 | 101.5 | 81.4  | 68.4  | 62.3  | 62.3  | 63.8  |
| 67.5° | 560.0 | 341.8 | 214.1 | 136.2 | 93.0  | 73.4  | 62.3  | 56.8  | 55.8  | 56.8  | 59.3  |
| 70°   | 396.6 | 221.7 | 134.2 | 89.0  | 69.9  | 59.3  | 53.8  | 51.8  | 50.8  | 51.8  | 52.8  |
| 72.5° | 244.3 | 130.7 | 85.5  | 69.4  | 59.8  | 53.3  | 49.8  | 48.3  | 47.8  | 47.8  | 47.3  |
| 75°   | 133.2 | 87.5  | 68.4  | 60.3  | 54.3  | 49.3  | 45.7  | 43.2  | 42.7  | 43.2  | 42.2  |
| 77.5° | 84.9  | 68.4  | 60.8  | 55.8  | 50.3  | 43.7  | 40.7  | 38.7  | 38.7  | 38.2  | 37.2  |
| 80°   | 66.4  | 60.8  | 55.8  | 50.8  | 42.2  | 37.2  | 34.2  | 33.7  | 33.2  | 32.7  | 32.7  |
| 82.5° | 49.8  | 48.3  | 45.7  | 41.2  | 33.7  | 29.7  | 28.1  | 28.1  | 27.6  | 26.1  | 26.1  |
| 85°   | 28.7  | 28.1  | 30.2  | 26.6  | 22.6  | 19.6  | 19.6  | 20.1  | 20.6  | 20.1  | 18.6  |
| 87.5° | 9.6   | 8.0   | 8.5   | 8.5   | 7.0   | 5.5   | 7.5   | 9.0   | 8.5   | 7.5   | 9.0   |
| 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-F02-LED-E1-SLL-7030

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 |
| 2.5°  | 516.2 | 517.2 | 519.3 | 517.2 | 516.2 | 516.2 | 515.2 | 515.7 | 514.2 | 512.7 | 513.2 |
| 5°    | 528.8 | 527.8 | 528.8 | 527.3 | 524.3 | 523.8 | 521.8 | 521.8 | 519.8 | 517.7 | 516.7 |
| 7.5°  | 542.9 | 541.4 | 541.9 | 538.9 | 535.3 | 532.8 | 530.3 | 529.3 | 526.8 | 523.8 | 521.8 |
| 10°   | 553.9 | 552.4 | 551.4 | 547.9 | 543.4 | 540.9 | 537.3 | 535.3 | 532.8 | 528.8 | 526.8 |
| 12.5° | 561.0 | 557.5 | 555.4 | 549.4 | 545.4 | 542.9 | 538.9 | 537.8 | 534.8 | 531.3 | 529.8 |
| 15°   | 559.5 | 551.4 | 545.4 | 538.4 | 532.8 | 529.3 | 525.8 | 524.8 | 523.3 | 521.8 | 518.7 |
| 17.5° | 534.8 | 524.8 | 518.2 | 503.7 | 495.6 | 492.1 | 491.6 | 491.1 | 490.1 | 490.1 | 486.6 |
| 20°   | 500.7 | 489.1 | 479.0 | 465.0 | 454.4 | 450.9 | 441.3 | 438.8 | 435.8 | 438.8 | 435.8 |
| 22.5° | 470.0 | 455.4 | 443.9 | 432.3 | 419.7 | 409.7 | 397.1 | 391.1 | 382.5 | 380.5 | 381.5 |
| 25°   | 437.3 | 419.2 | 404.6 | 391.1 | 377.5 | 363.4 | 351.9 | 343.3 | 337.8 | 330.2 | 323.2 |
| 27.5° | 397.6 | 382.5 | 362.9 | 351.9 | 335.8 | 320.2 | 308.1 | 299.1 | 289.0 | 283.0 | 272.9 |
| 30°   | 357.4 | 334.3 | 314.7 | 299.1 | 281.5 | 274.0 | 262.4 | 252.8 | 243.8 | 237.3 | 228.7 |
| 32.5° | 305.1 | 281.0 | 260.4 | 242.3 | 230.2 | 219.7 | 212.6 | 204.6 | 200.1 | 194.5 | 189.0 |
| 35°   | 249.8 | 219.7 | 195.0 | 187.0 | 173.4 | 173.9 | 170.4 | 166.4 | 162.9 | 157.8 | 157.3 |
| 37.5° | 188.5 | 164.9 | 148.8 | 138.7 | 136.7 | 133.7 | 134.2 | 133.7 | 132.7 | 131.2 | 131.2 |
| 40°   | 149.3 | 128.2 | 117.6 | 115.6 | 115.6 | 115.1 | 114.6 | 114.6 | 114.6 | 113.6 | 113.1 |
| 42.5° | 127.7 | 112.6 | 109.1 | 108.1 | 107.1 | 106.6 | 105.6 | 104.1 | 104.1 | 103.0 | 101.5 |
| 45°   | 112.6 | 104.1 | 103.0 | 102.0 | 102.0 | 100.5 | 99.0  | 98.0  | 97.5  | 97.0  | 96.0  |
| 47.5° | 103.0 | 98.5  | 97.5  | 96.5  | 96.0  | 95.0  | 93.5  | 92.0  | 91.5  | 91.0  | 91.0  |
| 50°   | 92.5  | 89.5  | 89.5  | 89.5  | 88.0  | 87.0  | 85.5  | 84.4  | 84.4  | 83.9  | 83.4  |
| 52.5° | 84.9  | 83.4  | 82.9  | 82.4  | 81.4  | 79.9  | 78.9  | 78.4  | 77.9  | 78.4  | 77.9  |
| 55°   | 81.4  | 80.4  | 79.9  | 78.9  | 77.9  | 76.4  | 75.4  | 73.9  | 73.4  | 74.4  | 74.4  |
| 57.5° | 77.4  | 76.9  | 76.4  | 75.4  | 74.4  | 72.4  | 70.9  | 69.9  | 69.9  | 71.4  | 70.9  |
| 60°   | 75.9  | 75.4  | 74.9  | 74.4  | 72.9  | 70.4  | 67.9  | 66.9  | 66.9  | 68.4  | 68.4  |
| 62.5° | 72.4  | 71.9  | 71.4  | 70.9  | 68.9  | 66.9  | 64.3  | 63.3  | 63.8  | 64.8  | 66.4  |
| 65°   | 65.8  | 66.4  | 65.8  | 65.8  | 64.3  | 62.8  | 61.3  | 60.3  | 59.8  | 60.3  | 61.8  |
| 67.5° | 59.8  | 60.3  | 60.3  | 60.3  | 59.8  | 58.3  | 57.3  | 55.8  | 54.8  | 55.3  | 55.8  |
| 70°   | 54.3  | 54.8  | 55.3  | 55.3  | 54.3  | 52.8  | 51.3  | 49.8  | 49.3  | 49.8  | 49.8  |
| 72.5° | 48.3  | 48.3  | 48.3  | 48.8  | 48.3  | 47.8  | 45.7  | 43.7  | 43.7  | 43.2  | 43.7  |
| 75°   | 42.2  | 42.2  | 42.2  | 42.2  | 41.2  | 41.2  | 40.2  | 38.2  | 37.7  | 38.2  | 38.7  |
| 77.5° | 37.2  | 36.2  | 35.7  | 35.7  | 35.7  | 34.7  | 34.2  | 34.2  | 33.7  | 33.7  | 33.7  |
| 80°   | 30.7  | 29.7  | 28.7  | 28.1  | 28.7  | 28.7  | 29.7  | 29.7  | 29.2  | 29.2  | 29.2  |
| 82.5° | 24.1  | 22.1  | 21.6  | 21.6  | 20.6  | 21.6  | 23.6  | 26.1  | 25.1  | 25.6  | 25.6  |
| 85°   | 17.6  | 15.6  | 14.6  | 14.6  | 13.6  | 15.6  | 18.1  | 20.1  | 19.1  | 20.1  | 19.6  |
| 87.5° | 8.0   | 7.5   | 6.0   | 5.0   | 6.0   | 9.0   | 10.6  | 11.1  | 9.6   | 11.6  | 11.6  |
| 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):**

|       | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 |
| 2.5°  | 515.2 | 513.2 | 512.7 | 513.2 | 512.2 | 513.7 | 513.7 | 513.2 | 513.2 | 512.7 | 513.7 |
| 5°    | 518.2 | 515.7 | 514.2 | 514.2 | 513.2 | 514.7 | 513.7 | 513.2 | 512.7 | 512.7 | 512.7 |
| 7.5°  | 522.8 | 519.3 | 516.7 | 515.2 | 513.2 | 513.2 | 511.7 | 510.2 | 509.2 | 508.7 | 508.7 |
| 10°   | 526.8 | 521.8 | 517.7 | 514.2 | 511.2 | 508.7 | 506.2 | 502.7 | 501.7 | 500.7 | 501.2 |
| 12.5° | 526.3 | 520.8 | 514.7 | 509.2 | 502.2 | 499.1 | 492.6 | 488.6 | 488.6 | 486.1 | 487.6 |
| 15°   | 515.2 | 505.7 | 497.1 | 488.1 | 479.5 | 473.5 | 465.5 | 460.9 | 458.4 | 457.9 | 461.4 |
| 17.5° | 482.1 | 473.0 | 465.0 | 454.9 | 443.9 | 439.8 | 434.3 | 432.3 | 430.8 | 433.3 | 435.8 |
| 20°   | 437.3 | 425.8 | 418.2 | 412.2 | 412.2 | 411.2 | 408.7 | 405.1 | 402.1 | 401.6 | 404.6 |
| 22.5° | 374.0 | 369.5 | 371.0 | 366.9 | 366.9 | 364.9 | 369.0 | 362.4 | 365.9 | 362.9 | 364.4 |
| 25°   | 321.2 | 319.2 | 318.2 | 317.7 | 317.7 | 321.2 | 320.7 | 321.7 | 318.2 | 320.2 | 319.7 |
| 27.5° | 273.4 | 270.9 | 267.4 | 269.4 | 271.4 | 274.0 | 275.0 | 275.5 | 278.5 | 272.9 | 275.0 |
| 30°   | 227.7 | 223.7 | 226.2 | 224.2 | 225.2 | 224.7 | 224.7 | 224.7 | 226.7 | 230.7 | 227.7 |
| 32.5° | 186.5 | 184.5 | 187.0 | 183.5 | 184.0 | 184.0 | 183.0 | 181.5 | 182.5 | 177.9 | 181.5 |
| 35°   | 154.3 | 151.8 | 153.8 | 152.3 | 150.8 | 146.8 | 145.3 | 142.8 | 143.3 | 142.3 | 141.8 |
| 37.5° | 129.2 | 128.7 | 127.2 | 127.2 | 126.2 | 125.7 | 123.2 | 123.7 | 124.2 | 125.2 | 125.2 |
| 40°   | 111.6 | 111.1 | 110.6 | 111.6 | 112.1 | 112.6 | 113.6 | 114.6 | 116.1 | 117.6 | 119.1 |
| 42.5° | 101.5 | 101.5 | 101.5 | 103.5 | 105.1 | 107.6 | 109.1 | 111.1 | 113.1 | 115.6 | 117.6 |
| 45°   | 95.5  | 95.0  | 96.0  | 97.5  | 100.0 | 102.5 | 105.1 | 108.1 | 111.1 | 113.6 | 115.1 |
| 47.5° | 90.5  | 90.0  | 91.0  | 92.5  | 95.0  | 99.0  | 102.5 | 106.1 | 109.6 | 112.1 | 113.1 |
| 50°   | 83.9  | 83.9  | 84.4  | 86.0  | 88.5  | 92.0  | 95.5  | 99.5  | 103.0 | 105.1 | 106.1 |
| 52.5° | 78.9  | 79.4  | 79.4  | 80.9  | 83.4  | 86.5  | 90.0  | 93.5  | 96.0  | 97.5  | 99.5  |
| 55°   | 73.9  | 74.9  | 74.9  | 76.4  | 78.9  | 82.4  | 87.0  | 90.0  | 93.0  | 95.0  | 96.5  |
| 57.5° | 70.4  | 70.9  | 70.9  | 72.9  | 75.9  | 78.9  | 83.4  | 87.5  | 91.0  | 93.5  | 95.5  |
| 60°   | 67.4  | 67.9  | 67.4  | 69.9  | 72.4  | 75.9  | 79.9  | 84.4  | 89.5  | 93.0  | 94.5  |
| 62.5° | 64.8  | 64.8  | 64.3  | 66.4  | 67.9  | 69.9  | 73.4  | 78.4  | 82.9  | 86.0  | 87.5  |
| 65°   | 61.8  | 61.8  | 60.8  | 62.8  | 62.8  | 65.8  | 68.4  | 72.9  | 76.4  | 79.9  | 80.9  |
| 67.5° | 55.8  | 56.8  | 56.3  | 57.8  | 59.8  | 61.8  | 64.8  | 68.4  | 71.9  | 74.4  | 75.9  |
| 70°   | 49.8  | 50.3  | 51.8  | 52.8  | 54.8  | 55.8  | 58.3  | 60.8  | 64.3  | 65.8  | 67.4  |
| 72.5° | 44.2  | 44.7  | 45.7  | 46.7  | 48.8  | 49.8  | 51.8  | 53.8  | 56.8  | 58.3  | 59.8  |
| 75°   | 38.7  | 39.2  | 39.7  | 40.7  | 41.7  | 42.7  | 43.7  | 45.7  | 47.8  | 49.8  | 51.3  |
| 77.5° | 33.2  | 33.7  | 35.2  | 34.7  | 35.7  | 36.2  | 37.7  | 38.7  | 39.7  | 41.7  | 43.7  |
| 80°   | 29.2  | 28.7  | 29.7  | 30.2  | 31.2  | 31.2  | 32.2  | 32.2  | 33.7  | 33.7  | 34.2  |
| 82.5° | 24.6  | 24.1  | 25.1  | 26.6  | 27.1  | 27.1  | 28.1  | 26.1  | 25.6  | 26.1  | 27.6  |
| 85°   | 18.6  | 19.1  | 19.6  | 21.6  | 22.1  | 22.1  | 23.1  | 21.6  | 19.6  | 19.6  | 20.6  |
| 87.5° | 10.6  | 8.0   | 11.6  | 13.6  | 13.6  | 14.1  | 15.1  | 14.6  | 14.1  | 11.1  | 11.6  |
| 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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 512.7 | 0°    |
| 2.5°  | 513.2 | 513.7 | 514.2 | 514.7 | 515.2 | 514.7 | 515.7 | 514.7 | 515.2 | 514.2 | 513.7 | 2.5°  |
| 5°    | 512.7 | 513.2 | 513.2 | 514.2 | 514.7 | 513.2 | 514.2 | 512.7 | 512.7 | 511.7 | 510.2 | 5°    |
| 7.5°  | 509.2 | 510.2 | 510.2 | 511.2 | 511.2 | 509.7 | 509.7 | 506.7 | 505.7 | 502.2 | 499.6 | 7.5°  |
| 10°   | 502.2 | 503.7 | 504.7 | 506.7 | 507.7 | 505.2 | 503.7 | 500.1 | 496.1 | 492.1 | 488.1 | 10°   |
| 12.5° | 490.1 | 490.6 | 494.1 | 497.1 | 498.6 | 500.1 | 499.1 | 498.6 | 494.6 | 492.1 | 490.6 | 12.5° |
| 15°   | 462.4 | 466.5 | 470.0 | 477.0 | 482.1 | 487.6 | 491.6 | 496.1 | 498.1 | 500.7 | 501.7 | 15°   |
| 17.5° | 438.3 | 442.8 | 445.4 | 451.4 | 456.4 | 465.0 | 475.5 | 487.1 | 495.1 | 505.2 | 514.7 | 17.5° |
| 20°   | 404.6 | 412.2 | 414.2 | 423.7 | 430.3 | 441.3 | 452.9 | 467.5 | 483.6 | 499.1 | 516.2 | 20°   |
| 22.5° | 366.9 | 370.5 | 374.5 | 384.5 | 392.6 | 406.7 | 424.2 | 444.4 | 463.0 | 484.6 | 509.2 | 22.5° |
| 25°   | 321.2 | 325.7 | 329.7 | 340.8 | 352.4 | 365.4 | 386.5 | 411.2 | 434.8 | 463.5 | 495.6 | 25°   |
| 27.5° | 276.0 | 279.5 | 286.5 | 294.6 | 307.6 | 321.7 | 347.8 | 375.0 | 402.1 | 436.8 | 475.0 | 27.5° |
| 30°   | 228.7 | 232.2 | 235.7 | 245.3 | 258.9 | 275.5 | 299.1 | 331.3 | 363.4 | 400.6 | 445.9 | 30°   |
| 32.5° | 183.5 | 184.5 | 191.5 | 198.6 | 210.1 | 224.2 | 249.8 | 281.0 | 315.7 | 360.9 | 405.6 | 32.5° |
| 35°   | 143.3 | 149.3 | 152.3 | 161.9 | 168.9 | 183.5 | 205.1 | 233.7 | 269.9 | 315.7 | 363.9 | 35°   |
| 37.5° | 127.2 | 129.2 | 133.2 | 140.2 | 149.8 | 162.9 | 177.9 | 200.1 | 231.2 | 269.9 | 315.2 | 37.5° |
| 40°   | 121.1 | 123.2 | 126.2 | 131.7 | 140.7 | 152.8 | 165.4 | 183.0 | 207.1 | 237.8 | 278.5 | 40°   |
| 42.5° | 119.1 | 119.6 | 120.6 | 125.7 | 134.7 | 148.3 | 163.4 | 180.0 | 198.6 | 223.2 | 255.4 | 42.5° |
| 45°   | 116.6 | 116.6 | 117.1 | 120.6 | 128.7 | 142.8 | 161.9 | 183.0 | 204.1 | 226.2 | 253.3 | 45°   |
| 47.5° | 114.6 | 115.1 | 114.6 | 116.1 | 122.1 | 135.7 | 156.8 | 182.5 | 210.6 | 239.3 | 268.9 | 47.5° |
| 50°   | 106.6 | 106.6 | 107.1 | 107.6 | 112.1 | 125.2 | 145.8 | 173.9 | 208.6 | 247.3 | 288.0 | 50°   |
| 52.5° | 100.0 | 101.0 | 101.0 | 102.0 | 105.1 | 115.6 | 136.2 | 165.9 | 203.6 | 248.8 | 303.6 | 52.5° |
| 55°   | 98.0  | 99.0  | 99.5  | 99.5  | 101.5 | 110.6 | 130.2 | 158.3 | 198.0 | 247.3 | 309.6 | 55°   |
| 57.5° | 96.5  | 97.5  | 98.0  | 97.5  | 99.0  | 106.6 | 124.7 | 152.3 | 192.0 | 243.8 | 312.2 | 57.5° |
| 60°   | 95.0  | 95.5  | 94.5  | 93.5  | 94.0  | 100.5 | 116.6 | 143.8 | 185.0 | 238.8 | 311.1 | 60°   |
| 62.5° | 88.0  | 88.5  | 87.5  | 86.5  | 85.5  | 90.5  | 105.1 | 131.7 | 170.4 | 227.2 | 303.1 | 62.5° |
| 65°   | 81.9  | 81.9  | 81.9  | 80.9  | 79.9  | 82.9  | 93.5  | 116.1 | 149.8 | 206.6 | 284.5 | 65°   |
| 67.5° | 76.9  | 76.4  | 76.4  | 75.9  | 74.9  | 75.9  | 82.4  | 98.0  | 124.2 | 173.9 | 250.8 | 67.5° |
| 70°   | 68.9  | 68.4  | 68.9  | 68.4  | 67.4  | 67.4  | 70.4  | 78.9  | 96.5  | 127.7 | 195.0 | 70°   |
| 72.5° | 60.8  | 61.3  | 62.3  | 62.3  | 62.3  | 62.8  | 62.8  | 65.3  | 74.9  | 91.5  | 132.7 | 72.5° |
| 75°   | 52.3  | 52.8  | 54.3  | 56.3  | 55.3  | 55.8  | 55.8  | 57.3  | 62.3  | 72.4  | 93.0  | 75°   |
| 77.5° | 44.2  | 45.7  | 47.8  | 48.3  | 46.7  | 46.7  | 47.8  | 50.3  | 54.8  | 60.8  | 70.9  | 77.5° |
| 80°   | 36.2  | 38.2  | 38.7  | 39.7  | 40.2  | 40.2  | 41.2  | 43.2  | 47.8  | 55.3  | 63.3  | 80°   |
| 82.5° | 28.7  | 30.2  | 31.7  | 33.2  | 34.2  | 35.7  | 36.2  | 37.2  | 41.7  | 49.3  | 58.3  | 82.5° |
| 85°   | 21.6  | 23.1  | 25.1  | 26.6  | 27.6  | 29.2  | 28.7  | 29.2  | 31.7  | 37.7  | 44.2  | 85°   |
| 87.5° | 13.1  | 13.1  | 14.6  | 15.1  | 15.6  | 15.6  | 16.6  | 14.6  | 15.6  | 20.1  | 24.1  | 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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NUMBER: ECM-F02-LED-E1-SLL-7030

**DISTRIBUTION (continued):**

| 330°  | 335°  | 340°  | 345°  | 350°   | 355°   | 360°   |
|-------|-------|-------|-------|--------|--------|--------|
| 512.7 | 512.7 | 512.7 | 512.7 | 512.7  | 512.7  | 512.7  |
| 514.2 | 513.7 | 513.2 | 513.7 | 514.7  | 514.7  | 513.2  |
| 510.7 | 509.2 | 508.2 | 508.2 | 508.2  | 507.7  | 506.7  |
| 498.6 | 496.1 | 494.6 | 493.6 | 493.1  | 493.1  | 491.1  |
| 485.6 | 484.1 | 481.0 | 480.0 | 480.5  | 482.1  | 481.6  |
| 488.6 | 484.1 | 482.6 | 482.6 | 482.1  | 484.6  | 484.1  |
| 505.2 | 505.2 | 503.2 | 502.7 | 501.7  | 504.7  | 504.7  |
| 522.8 | 527.3 | 529.3 | 527.3 | 527.8  | 528.3  | 532.3  |
| 532.3 | 545.4 | 552.4 | 558.0 | 558.5  | 561.5  | 561.0  |
| 533.8 | 557.5 | 576.1 | 588.1 | 599.2  | 604.7  | 603.7  |
| 526.3 | 559.0 | 591.6 | 622.3 | 645.4  | 658.0  | 668.5  |
| 516.2 | 554.9 | 597.2 | 640.4 | 678.1  | 711.8  | 732.9  |
| 492.6 | 541.9 | 596.2 | 651.5 | 705.2  | 753.5  | 792.7  |
| 459.4 | 516.2 | 581.1 | 654.0 | 729.4  | 796.2  | 853.5  |
| 415.2 | 476.0 | 554.9 | 644.4 | 743.9  | 843.5  | 929.9  |
| 367.4 | 434.3 | 520.8 | 628.3 | 751.5  | 881.2  | 999.8  |
| 325.7 | 391.6 | 486.1 | 607.7 | 750.5  | 905.8  | 1051.1 |
| 298.6 | 360.4 | 455.9 | 588.1 | 745.4  | 919.9  | 1091.3 |
| 289.5 | 345.3 | 435.8 | 572.5 | 742.4  | 929.9  | 1118.9 |
| 301.6 | 349.9 | 431.3 | 565.5 | 741.4  | 941.5  | 1143.1 |
| 329.7 | 375.0 | 448.4 | 577.1 | 750.5  | 953.0  | 1167.2 |
| 356.4 | 410.2 | 485.6 | 610.2 | 784.2  | 986.7  | 1200.4 |
| 378.0 | 448.4 | 525.8 | 654.0 | 832.4  | 1039.0 | 1250.1 |
| 390.1 | 478.0 | 578.1 | 714.8 | 898.3  | 1115.9 | 1331.6 |
| 395.1 | 498.6 | 622.8 | 778.6 | 981.2  | 1203.9 | 1434.6 |
| 393.1 | 508.2 | 655.0 | 836.9 | 1056.1 | 1300.4 | 1551.7 |
| 380.5 | 508.2 | 675.1 | 883.7 | 1118.9 | 1377.3 | 1654.8 |
| 350.4 | 490.6 | 677.1 | 910.8 | 1167.2 | 1442.1 | 1739.2 |
| 295.1 | 439.8 | 643.4 | 907.8 | 1182.3 | 1462.7 | 1783.4 |
| 206.6 | 328.2 | 536.8 | 820.3 | 1117.9 | 1414.0 | 1734.7 |
| 128.2 | 204.6 | 384.5 | 634.4 | 930.4  | 1199.9 | 1543.7 |
| 90.0  | 124.2 | 220.2 | 401.6 | 640.4  | 894.2  | 1152.6 |
| 74.9  | 91.5  | 125.7 | 221.2 | 385.0  | 550.9  | 724.8  |
| 64.8  | 73.9  | 87.5  | 126.2 | 196.0  | 293.6  | 403.6  |
| 48.3  | 53.8  | 60.3  | 82.9  | 123.7  | 181.5  | 276.0  |
| 19.6  | 22.1  | 24.6  | 33.2  | 75.9   | 104.6  | 112.1  |
| 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)