

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: P141436

Luminaire Tested: **EMM-F02-LED-E1-SLL-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P141436  
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: EMM-F02-LED-E1-SLL-7050  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4431.1 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

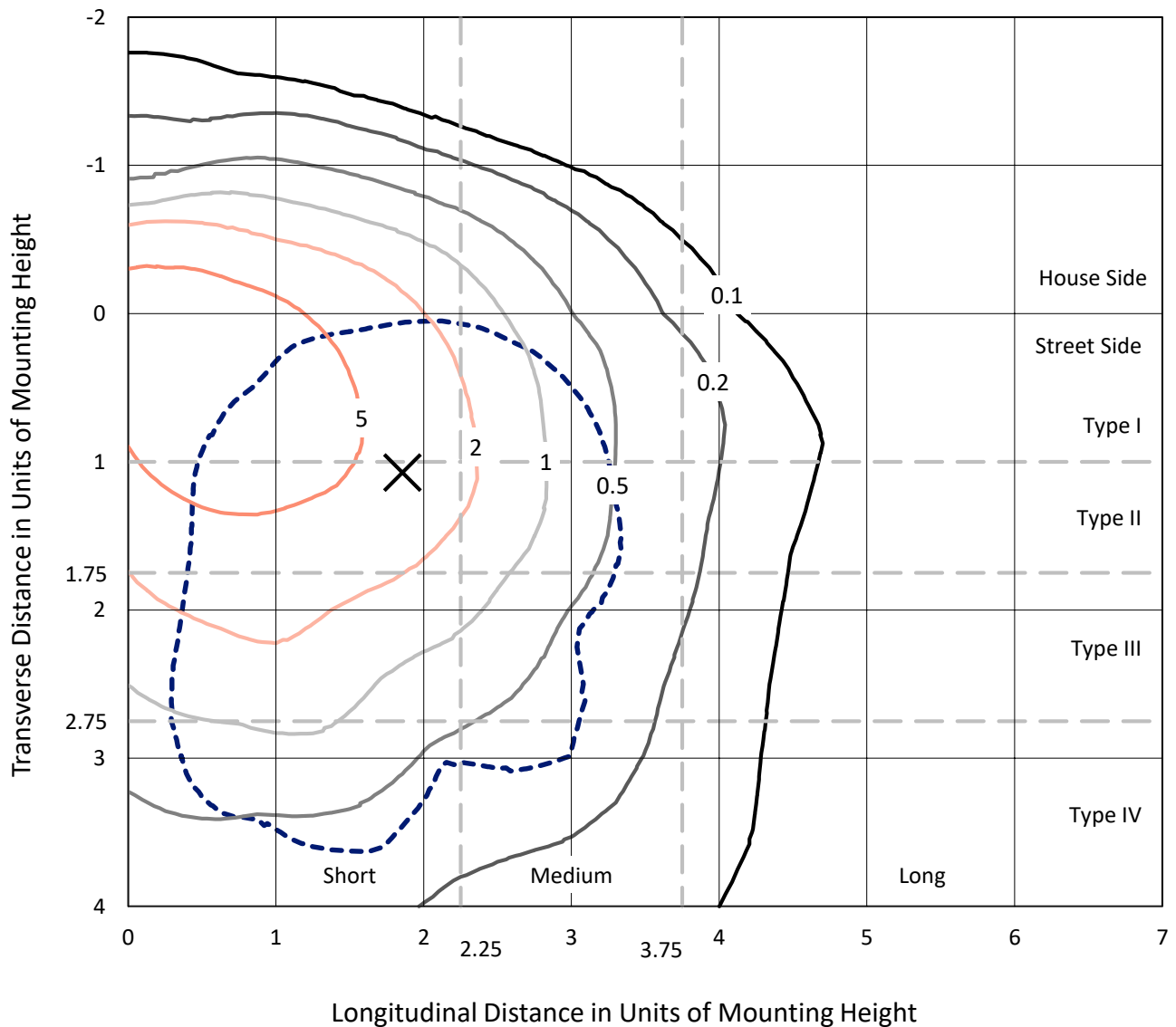
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

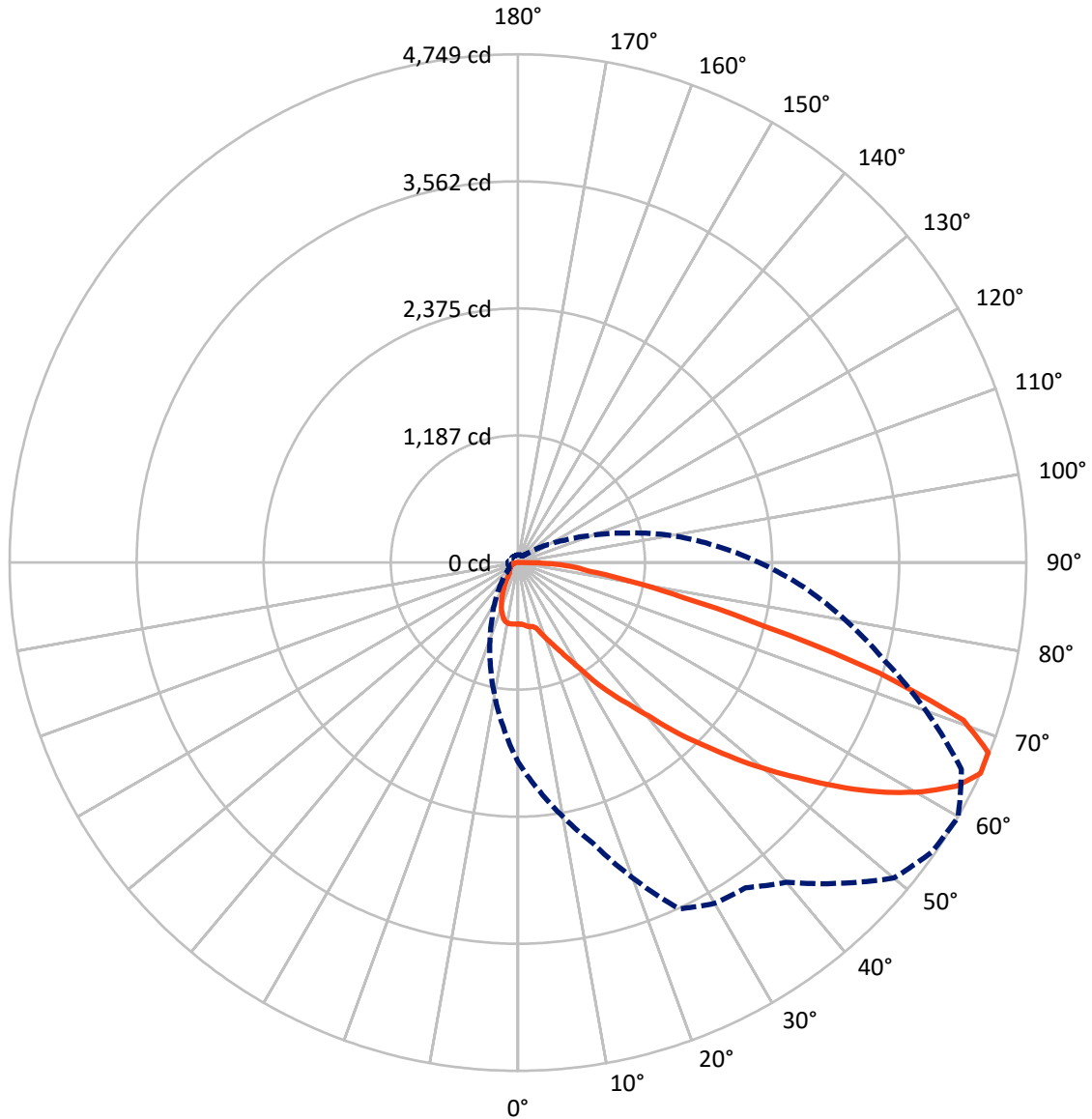
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 821.9    | 0.0    | 821.9  |
|                    | % Fixture | 18.5     | 0.0    | 18.5   |
| <b>Street Side</b> | Lumens    | 3609.2   | 0.0    | 3609.2 |
|                    | % Fixture | 81.5     | 0.0    | 81.5   |
| <b>Total</b>       | Lumens    | 4431.1   | 0.0    | 4431.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.7   | 1.3       |
| 10°-20°   | 167.4  | 3.8       |
| 20°-30°   | 278.1  | 6.3       |
| 30°-40°   | 406.5  | 9.2       |
| 40°-50°   | 618.4  | 14.0      |
| 50°-60°   | 888.8  | 20.1      |
| 60°-70°   | 1092.8 | 24.7      |
| 70°-80°   | 731.1  | 16.5      |
| 80°-90°   | 192.3  | 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°    | 4431.1 | 100.0     |
| 0°-180°   | 4431.1 | 100.0     |

**Coefficient of Utilization**



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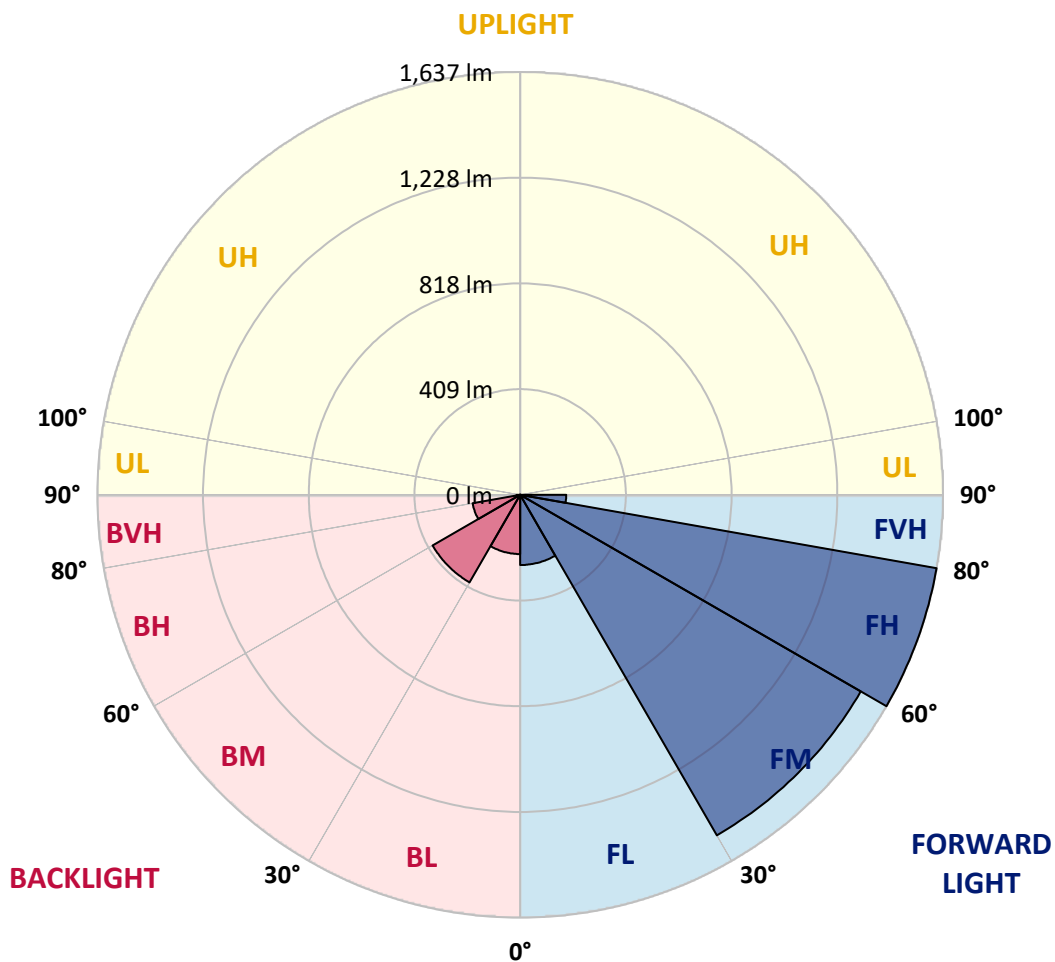
CATALOG NUMBER: EMM-F02-LED-E1-SLL-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 271.8  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 1522.2 | 34.4      |                         |      |         |
| FH   | (60°-80°)   | 1636.8 | 36.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 178.4  | 4.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 229.4  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 391.5  | 8.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 187.0  | 4.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 14.0   | 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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  |
| 2.5°  | 576.6  | 577.1  | 577.1  | 576.6  | 576.0  | 576.6  | 575.4  | 576.6  | 576.0  | 575.4  | 576.0  |
| 5°    | 569.2  | 569.8  | 570.9  | 570.9  | 572.1  | 574.3  | 574.9  | 577.7  | 579.4  | 580.0  | 582.2  |
| 7.5°  | 551.7  | 554.6  | 556.2  | 558.5  | 561.9  | 567.5  | 571.5  | 578.3  | 583.4  | 587.9  | 594.1  |
| 10°   | 541.0  | 544.4  | 547.8  | 552.9  | 557.9  | 565.3  | 572.1  | 580.5  | 587.3  | 594.1  | 601.4  |
| 12.5° | 543.8  | 547.8  | 552.3  | 556.2  | 564.2  | 570.9  | 579.4  | 589.6  | 593.0  | 599.7  | 605.9  |
| 15°   | 567.0  | 570.4  | 573.8  | 578.3  | 585.6  | 593.5  | 604.8  | 616.1  | 618.4  | 625.7  | 632.5  |
| 17.5° | 598.0  | 598.6  | 604.2  | 612.2  | 618.9  | 631.9  | 645.5  | 660.7  | 670.3  | 674.8  | 678.8  |
| 20°   | 630.2  | 631.9  | 641.0  | 648.3  | 663.5  | 680.5  | 700.2  | 722.8  | 730.7  | 750.5  | 757.9  |
| 22.5° | 678.2  | 677.7  | 688.4  | 698.6  | 715.5  | 733.6  | 762.4  | 793.4  | 811.5  | 826.7  | 832.4  |
| 25°   | 751.1  | 752.8  | 751.1  | 765.8  | 783.3  | 812.6  | 841.4  | 872.5  | 883.2  | 909.8  | 922.2  |
| 27.5° | 823.4  | 836.3  | 853.9  | 858.4  | 879.8  | 913.7  | 936.3  | 969.6  | 995.6  | 1002.9 | 1023.3 |
| 30°   | 890.6  | 917.7  | 946.5  | 970.7  | 1009.1 | 1050.4 | 1084.3 | 1122.1 | 1123.8 | 1137.3 | 1143.0 |
| 32.5° | 958.9  | 1001.2 | 1043.6 | 1074.7 | 1111.9 | 1166.7 | 1229.4 | 1290.9 | 1331.0 | 1372.3 | 1351.4 |
| 35°   | 1044.7 | 1110.8 | 1170.1 | 1218.1 | 1249.7 | 1300.5 | 1372.8 | 1472.8 | 1537.2 | 1586.3 | 1614.5 |
| 37.5° | 1123.2 | 1223.2 | 1314.1 | 1382.4 | 1459.8 | 1495.9 | 1543.4 | 1615.7 | 1689.6 | 1735.4 | 1759.1 |
| 40°   | 1180.8 | 1317.5 | 1446.2 | 1545.1 | 1643.3 | 1729.7 | 1789.6 | 1848.3 | 1948.3 | 2005.3 | 2009.8 |
| 42.5° | 1226.0 | 1399.9 | 1555.2 | 1697.0 | 1841.5 | 1962.4 | 2034.7 | 2109.2 | 2236.3 | 2302.4 | 2297.3 |
| 45°   | 1257.1 | 1461.5 | 1654.1 | 1828.6 | 2003.6 | 2161.2 | 2300.7 | 2411.3 | 2541.2 | 2667.2 | 2641.7 |
| 47.5° | 1284.2 | 1512.3 | 1732.6 | 1929.6 | 2139.7 | 2336.2 | 2510.2 | 2666.0 | 2837.7 | 3007.7 | 3017.8 |
| 50°   | 1311.3 | 1553.5 | 1803.7 | 2030.7 | 2267.3 | 2514.1 | 2724.2 | 2924.7 | 3139.3 | 3355.5 | 3405.2 |
| 52.5° | 1348.5 | 1599.8 | 1869.8 | 2122.8 | 2397.8 | 2658.1 | 2892.5 | 3142.1 | 3407.5 | 3616.4 | 3757.6 |
| 55°   | 1404.5 | 1664.2 | 1951.7 | 2214.8 | 2514.7 | 2801.6 | 3060.8 | 3348.8 | 3592.7 | 3850.8 | 4051.8 |
| 57.5° | 1495.9 | 1750.1 | 2046.5 | 2315.3 | 2627.6 | 2931.4 | 3200.8 | 3502.9 | 3735.6 | 4021.9 | 4274.3 |
| 60°   | 1611.7 | 1867.0 | 2153.8 | 2434.5 | 2760.3 | 3113.8 | 3385.5 | 3609.1 | 3842.3 | 4132.0 | 4435.9 |
| 62.5° | 1743.3 | 1999.1 | 2284.8 | 2574.5 | 2945.0 | 3327.9 | 3561.1 | 3688.7 | 3892.0 | 4207.7 | 4540.3 |
| 65°   | 1859.0 | 2122.8 | 2408.0 | 2715.2 | 3134.2 | 3569.6 | 3676.9 | 3709.1 | 3899.4 | 4238.2 | 4585.5 |
| 67.5° | 1953.9 | 2257.2 | 2523.2 | 2829.2 | 3333.5 | 3723.2 | 3679.1 | 3614.8 | 3799.4 | 4164.2 | 4499.1 |
| 70°   | 2003.6 | 2317.0 | 2577.9 | 2839.4 | 3375.9 | 3744.6 | 3590.5 | 3415.4 | 3499.6 | 3856.5 | 4136.6 |
| 72.5° | 1948.8 | 2270.2 | 2476.3 | 2638.9 | 3122.3 | 3480.4 | 3283.8 | 2953.5 | 3030.3 | 3375.9 | 3448.2 |
| 75°   | 1734.2 | 2122.2 | 2242.5 | 2236.8 | 2497.2 | 2682.4 | 2540.1 | 2329.5 | 2525.4 | 2669.4 | 2595.4 |
| 77.5° | 1294.9 | 1738.2 | 1805.4 | 1681.7 | 1737.1 | 1892.9 | 1758.5 | 1922.3 | 2160.0 | 2225.0 | 2084.9 |
| 80°   | 814.3  | 1274.0 | 1281.3 | 1127.2 | 1097.8 | 1158.8 | 1332.2 | 1680.6 | 1907.6 | 1894.1 | 1708.8 |
| 82.5° | 453.5  | 826.2  | 904.7  | 763.5  | 727.4  | 877.0  | 1186.5 | 1371.7 | 1341.8 | 1330.5 | 1089.3 |
| 85°   | 310.0  | 564.2  | 689.5  | 661.3  | 731.3  | 874.7  | 973.0  | 869.7  | 837.5  | 713.2  | 578.8  |
| 87.5° | 125.9  | 254.1  | 427.5  | 491.3  | 521.2  | 639.8  | 560.2  | 456.3  | 351.3  | 333.2  | 286.3  |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  | 576.0  |
| 2.5°  | 574.3  | 575.4  | 575.4  | 576.0  | 576.6  | 577.1  | 577.1  | 577.1  | 577.7  | 578.3  | 577.7  |
| 5°    | 582.8  | 584.5  | 585.6  | 585.6  | 586.7  | 587.9  | 589.0  | 588.4  | 590.1  | 591.3  | 591.8  |
| 7.5°  | 596.3  | 599.7  | 602.6  | 604.8  | 605.9  | 605.9  | 605.9  | 604.2  | 605.9  | 606.5  | 607.1  |
| 10°   | 605.9  | 609.9  | 610.5  | 612.7  | 612.2  | 611.6  | 610.5  | 609.3  | 609.9  | 611.0  | 612.7  |
| 12.5° | 608.8  | 612.7  | 613.8  | 615.5  | 615.0  | 614.4  | 612.2  | 612.2  | 611.6  | 613.3  | 615.0  |
| 15°   | 631.9  | 635.3  | 641.0  | 635.9  | 636.4  | 631.9  | 628.0  | 625.7  | 624.6  | 625.7  | 626.8  |
| 17.5° | 685.0  | 690.6  | 688.4  | 680.5  | 679.9  | 670.3  | 668.6  | 657.3  | 657.3  | 657.3  | 653.9  |
| 20°   | 757.9  | 757.3  | 753.3  | 745.4  | 728.5  | 725.1  | 712.7  | 703.6  | 695.2  | 693.5  | 689.5  |
| 22.5° | 837.5  | 829.0  | 826.7  | 810.4  | 799.6  | 779.3  | 760.7  | 753.9  | 746.0  | 744.3  | 743.7  |
| 25°   | 914.8  | 918.2  | 901.9  | 893.9  | 866.8  | 848.8  | 838.0  | 821.1  | 821.1  | 818.8  | 816.0  |
| 27.5° | 1012.0 | 1023.3 | 1005.2 | 993.9  | 968.5  | 943.1  | 924.4  | 914.3  | 903.5  | 896.2  | 875.9  |
| 30°   | 1149.2 | 1156.5 | 1144.1 | 1121.0 | 1089.3 | 1044.2 | 1018.7 | 1007.5 | 987.7  | 962.8  | 929.5  |
| 32.5° | 1342.3 | 1332.2 | 1289.8 | 1249.2 | 1207.9 | 1165.0 | 1134.5 | 1114.2 | 1083.7 | 1034.0 | 970.7  |
| 35°   | 1592.5 | 1505.0 | 1451.9 | 1396.0 | 1348.5 | 1300.5 | 1277.4 | 1240.7 | 1171.2 | 1090.5 | 1005.8 |
| 37.5° | 1715.6 | 1676.6 | 1615.7 | 1573.9 | 1517.4 | 1469.4 | 1416.9 | 1354.2 | 1264.4 | 1148.6 | 1031.2 |
| 40°   | 1962.4 | 1889.0 | 1841.5 | 1794.1 | 1724.6 | 1659.1 | 1588.0 | 1486.9 | 1342.3 | 1198.3 | 1050.9 |
| 42.5° | 2221.6 | 2167.4 | 2081.5 | 2018.3 | 1966.3 | 1857.9 | 1745.0 | 1603.8 | 1422.0 | 1243.5 | 1069.0 |
| 45°   | 2559.3 | 2435.1 | 2328.9 | 2275.2 | 2173.0 | 2040.9 | 1909.3 | 1707.7 | 1495.4 | 1290.9 | 1089.3 |
| 47.5° | 2898.7 | 2738.9 | 2629.3 | 2529.4 | 2420.4 | 2243.1 | 2038.1 | 1798.1 | 1551.8 | 1330.5 | 1106.3 |
| 50°   | 3262.9 | 3052.3 | 2925.8 | 2806.1 | 2626.5 | 2411.9 | 2151.0 | 1872.6 | 1610.6 | 1367.7 | 1121.5 |
| 52.5° | 3633.4 | 3367.4 | 3186.7 | 3047.2 | 2824.7 | 2559.3 | 2253.2 | 1950.0 | 1673.3 | 1403.9 | 1134.0 |
| 55°   | 3966.6 | 3717.0 | 3483.7 | 3268.6 | 3000.9 | 2692.6 | 2347.0 | 2019.4 | 1729.7 | 1441.7 | 1141.9 |
| 57.5° | 4268.7 | 4051.3 | 3772.9 | 3484.3 | 3163.0 | 2816.2 | 2433.4 | 2094.5 | 1782.8 | 1469.4 | 1141.3 |
| 60°   | 4475.9 | 4348.9 | 4059.8 | 3707.9 | 3332.4 | 2929.8 | 2537.3 | 2178.1 | 1829.7 | 1489.2 | 1136.8 |
| 62.5° | 4625.0 | 4599.6 | 4347.2 | 3923.1 | 3470.8 | 3032.0 | 2637.8 | 2247.6 | 1863.6 | 1491.4 | 1117.6 |
| 65°   | 4718.2 | 4749.3 | 4571.9 | 4059.8 | 3548.1 | 3109.9 | 2687.5 | 2253.8 | 1839.3 | 1454.1 | 1066.8 |
| 67.5° | 4659.5 | 4739.7 | 4570.8 | 4000.5 | 3474.1 | 3037.0 | 2614.6 | 2149.9 | 1710.0 | 1338.4 | 952.7  |
| 70°   | 4295.2 | 4415.5 | 4248.9 | 3607.4 | 3112.2 | 2755.8 | 2346.4 | 1846.6 | 1471.1 | 1102.3 | 752.8  |
| 72.5° | 3369.1 | 3527.8 | 3382.1 | 2942.2 | 2576.2 | 2278.1 | 1974.3 | 1450.2 | 1121.5 | 809.8  | 506.0  |
| 75°   | 2324.4 | 2385.4 | 2298.4 | 1994.6 | 1882.2 | 1765.9 | 1481.8 | 974.7  | 740.9  | 499.8  | 297.6  |
| 77.5° | 1803.1 | 1582.3 | 1415.7 | 1291.5 | 1289.2 | 1267.8 | 969.6  | 583.4  | 443.3  | 275.0  | 165.5  |
| 80°   | 1355.9 | 1064.5 | 878.7  | 768.6  | 799.1  | 893.4  | 565.3  | 299.3  | 229.3  | 151.9  | 101.6  |
| 82.5° | 892.3  | 679.4  | 542.1  | 480.0  | 485.1  | 560.2  | 284.1  | 164.9  | 112.9  | 86.4   | 66.1   |
| 85°   | 543.8  | 528.0  | 471.0  | 427.5  | 394.2  | 385.1  | 220.8  | 126.5  | 62.7   | 44.6   | 33.9   |
| 87.5° | 265.4  | 314.5  | 384.0  | 389.1  | 334.3  | 283.5  | 114.6  | 36.1   | 26.5   | 14.1   | 10.2   |
| 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°    | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |
| 2.5°  | 578.3 | 581.1 | 580.0 | 579.4 | 579.4 | 582.2 | 582.2 | 581.1 | 581.1 | 581.7 | 581.7 |
| 5°    | 591.8 | 594.6 | 593.5 | 594.1 | 595.2 | 595.8 | 597.5 | 595.8 | 594.6 | 595.8 | 595.2 |
| 7.5°  | 607.6 | 610.5 | 609.9 | 611.0 | 612.2 | 613.3 | 614.4 | 613.8 | 612.7 | 612.7 | 612.2 |
| 10°   | 614.4 | 620.1 | 622.3 | 624.6 | 627.4 | 628.5 | 630.2 | 630.2 | 628.0 | 628.0 | 625.1 |
| 12.5° | 618.9 | 623.4 | 629.1 | 632.5 | 637.6 | 641.5 | 643.2 | 643.8 | 642.1 | 639.8 | 637.0 |
| 15°   | 628.5 | 631.9 | 637.6 | 641.0 | 647.2 | 652.2 | 655.6 | 655.1 | 652.8 | 646.6 | 638.1 |
| 17.5° | 652.2 | 651.7 | 653.9 | 656.2 | 657.9 | 660.7 | 659.6 | 654.5 | 643.8 | 632.5 | 620.6 |
| 20°   | 687.8 | 687.3 | 683.9 | 678.8 | 672.6 | 664.7 | 652.2 | 637.0 | 618.9 | 598.6 | 580.5 |
| 22.5° | 738.1 | 733.0 | 728.5 | 714.9 | 693.5 | 666.9 | 634.7 | 604.8 | 583.4 | 563.6 | 543.8 |
| 25°   | 804.7 | 792.3 | 770.3 | 738.6 | 704.8 | 665.2 | 618.4 | 578.3 | 551.2 | 528.0 | 508.2 |
| 27.5° | 846.5 | 817.7 | 781.0 | 737.5 | 692.3 | 641.5 | 589.6 | 550.0 | 519.5 | 494.1 | 471.5 |
| 30°   | 882.1 | 830.1 | 778.7 | 723.4 | 666.4 | 613.8 | 559.1 | 516.7 | 481.1 | 452.9 | 425.8 |
| 32.5° | 901.9 | 832.4 | 768.0 | 701.9 | 639.8 | 580.0 | 520.7 | 474.9 | 441.0 | 406.0 | 368.8 |
| 35°   | 914.3 | 825.6 | 747.7 | 673.1 | 604.8 | 542.7 | 480.6 | 430.3 | 385.7 | 342.8 | 305.5 |
| 37.5° | 917.7 | 814.3 | 721.1 | 641.0 | 563.0 | 495.3 | 436.5 | 377.8 | 333.2 | 286.9 | 244.0 |
| 40°   | 916.0 | 792.9 | 687.8 | 590.7 | 508.8 | 443.3 | 386.3 | 332.6 | 283.5 | 242.3 | 201.0 |
| 42.5° | 909.2 | 768.6 | 648.3 | 549.5 | 467.0 | 404.3 | 351.8 | 297.6 | 253.6 | 209.5 | 174.5 |
| 45°   | 906.9 | 744.9 | 618.4 | 517.8 | 438.8 | 377.2 | 325.8 | 273.3 | 227.0 | 185.2 | 150.2 |
| 47.5° | 901.9 | 723.4 | 590.7 | 493.6 | 415.6 | 356.3 | 303.3 | 251.9 | 203.9 | 166.0 | 132.1 |
| 50°   | 890.6 | 700.2 | 570.4 | 474.9 | 396.4 | 335.4 | 281.2 | 225.9 | 179.0 | 141.7 | 115.8 |
| 52.5° | 878.7 | 685.6 | 557.4 | 456.3 | 376.1 | 310.6 | 256.9 | 201.0 | 157.0 | 122.0 | 102.2 |
| 55°   | 866.8 | 674.3 | 539.9 | 434.3 | 349.6 | 285.2 | 231.0 | 179.6 | 138.4 | 108.4 | 94.3  |
| 57.5° | 853.9 | 659.0 | 518.4 | 406.0 | 319.6 | 256.9 | 202.7 | 154.2 | 120.3 | 97.7  | 88.1  |
| 60°   | 843.1 | 637.6 | 481.1 | 366.5 | 279.5 | 217.4 | 168.3 | 128.8 | 102.2 | 88.1  | 84.1  |
| 62.5° | 814.9 | 596.3 | 427.5 | 308.3 | 227.0 | 170.0 | 128.2 | 100.5 | 85.8  | 79.1  | 79.6  |
| 65°   | 746.6 | 504.3 | 339.4 | 240.6 | 159.3 | 114.1 | 91.5  | 76.8  | 70.0  | 70.0  | 71.7  |
| 67.5° | 629.1 | 384.0 | 240.6 | 153.0 | 104.5 | 82.4  | 70.0  | 63.8  | 62.7  | 63.8  | 66.6  |
| 70°   | 445.6 | 249.0 | 150.8 | 100.0 | 78.5  | 66.6  | 60.4  | 58.2  | 57.0  | 58.2  | 59.3  |
| 72.5° | 274.5 | 146.8 | 96.0  | 77.9  | 67.2  | 59.9  | 55.9  | 54.2  | 53.6  | 53.6  | 53.1  |
| 75°   | 149.7 | 98.3  | 76.8  | 67.8  | 61.0  | 55.3  | 51.4  | 48.6  | 48.0  | 48.6  | 47.4  |
| 77.5° | 95.4  | 76.8  | 68.3  | 62.7  | 56.5  | 49.1  | 45.7  | 43.5  | 43.5  | 42.9  | 41.8  |
| 80°   | 74.5  | 68.3  | 62.7  | 57.0  | 47.4  | 41.8  | 38.4  | 37.8  | 37.3  | 36.7  | 36.7  |
| 82.5° | 55.9  | 54.2  | 51.4  | 46.3  | 37.8  | 33.3  | 31.6  | 31.6  | 31.1  | 29.4  | 29.4  |
| 85°   | 32.2  | 31.6  | 33.9  | 29.9  | 25.4  | 22.0  | 22.0  | 22.6  | 23.2  | 22.6  | 20.9  |
| 87.5° | 10.7  | 9.0   | 9.6   | 9.6   | 7.9   | 6.2   | 8.5   | 10.2  | 9.6   | 8.5   | 10.2  |
| 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):**

|       | 165°  | 170°  | 175°  | 180°  | 185°  | 190°  | 195°  | 200°  | 205°  | 210°  | 215°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |
| 2.5°  | 580.0 | 581.1 | 583.4 | 581.1 | 580.0 | 580.0 | 578.8 | 579.4 | 577.7 | 576.0 | 576.6 |
| 5°    | 594.1 | 593.0 | 594.1 | 592.4 | 589.0 | 588.4 | 586.2 | 586.2 | 583.9 | 581.7 | 580.5 |
| 7.5°  | 609.9 | 608.2 | 608.8 | 605.4 | 601.4 | 598.6 | 595.8 | 594.6 | 591.8 | 588.4 | 586.2 |
| 10°   | 622.3 | 620.6 | 619.5 | 615.5 | 610.5 | 607.6 | 603.7 | 601.4 | 598.6 | 594.1 | 591.8 |
| 12.5° | 630.2 | 626.3 | 624.0 | 617.2 | 612.7 | 609.9 | 605.4 | 604.2 | 600.9 | 596.9 | 595.2 |
| 15°   | 628.5 | 619.5 | 612.7 | 604.8 | 598.6 | 594.6 | 590.7 | 589.6 | 587.9 | 586.2 | 582.8 |
| 17.5° | 600.9 | 589.6 | 582.2 | 565.8 | 556.8 | 552.9 | 552.3 | 551.7 | 550.6 | 550.6 | 546.6 |
| 20°   | 562.5 | 549.5 | 538.2 | 522.4 | 510.5 | 506.6 | 495.8 | 493.0 | 489.6 | 493.0 | 489.6 |
| 22.5° | 528.0 | 511.6 | 498.6 | 485.7 | 471.5 | 460.2 | 446.1 | 439.3 | 429.7 | 427.5 | 428.6 |
| 25°   | 491.3 | 471.0 | 454.6 | 439.3 | 424.1 | 408.3 | 395.3 | 385.7 | 379.5 | 371.0 | 363.1 |
| 27.5° | 446.7 | 429.7 | 407.7 | 395.3 | 377.2 | 359.7 | 346.2 | 336.0 | 324.7 | 317.9 | 306.6 |
| 30°   | 401.5 | 375.5 | 353.5 | 336.0 | 316.2 | 307.8 | 294.8 | 284.1 | 273.9 | 266.5 | 256.9 |
| 32.5° | 342.8 | 315.7 | 292.5 | 272.2 | 258.6 | 246.8 | 238.9 | 229.8 | 224.8 | 218.5 | 212.3 |
| 35°   | 280.7 | 246.8 | 219.1 | 210.1 | 194.8 | 195.4 | 191.4 | 186.9 | 183.0 | 177.3 | 176.8 |
| 37.5° | 211.8 | 185.2 | 167.2 | 155.9 | 153.6 | 150.2 | 150.8 | 150.2 | 149.1 | 147.4 | 147.4 |
| 40°   | 167.7 | 144.0 | 132.1 | 129.9 | 129.9 | 129.3 | 128.8 | 128.8 | 128.8 | 127.6 | 127.1 |
| 42.5° | 143.4 | 126.5 | 122.5 | 121.4 | 120.3 | 119.7 | 118.6 | 116.9 | 116.9 | 115.8 | 114.1 |
| 45°   | 126.5 | 116.9 | 115.8 | 114.6 | 114.6 | 112.9 | 111.2 | 110.1 | 109.6 | 109.0 | 107.9 |
| 47.5° | 115.8 | 110.7 | 109.6 | 108.4 | 107.9 | 106.7 | 105.0 | 103.3 | 102.8 | 102.2 | 102.2 |
| 50°   | 103.9 | 100.5 | 100.5 | 100.5 | 98.8  | 97.7  | 96.0  | 94.9  | 94.9  | 94.3  | 93.7  |
| 52.5° | 95.4  | 93.7  | 93.2  | 92.6  | 91.5  | 89.8  | 88.7  | 88.1  | 87.5  | 88.1  | 87.5  |
| 55°   | 91.5  | 90.4  | 89.8  | 88.7  | 87.5  | 85.8  | 84.7  | 83.0  | 82.4  | 83.6  | 83.6  |
| 57.5° | 87.0  | 86.4  | 85.8  | 84.7  | 83.6  | 81.3  | 79.6  | 78.5  | 78.5  | 80.2  | 79.6  |
| 60°   | 85.3  | 84.7  | 84.1  | 83.6  | 81.9  | 79.1  | 76.2  | 75.1  | 75.1  | 76.8  | 76.8  |
| 62.5° | 81.3  | 80.8  | 80.2  | 79.6  | 77.4  | 75.1  | 72.3  | 71.2  | 71.7  | 72.8  | 74.5  |
| 65°   | 74.0  | 74.5  | 74.0  | 74.0  | 72.3  | 70.6  | 68.9  | 67.8  | 67.2  | 67.8  | 69.5  |
| 67.5° | 67.2  | 67.8  | 67.8  | 67.8  | 67.2  | 65.5  | 64.4  | 62.7  | 61.6  | 62.1  | 62.7  |
| 70°   | 61.0  | 61.6  | 62.1  | 62.1  | 61.0  | 59.3  | 57.6  | 55.9  | 55.3  | 55.9  | 55.9  |
| 72.5° | 54.2  | 54.2  | 54.2  | 54.8  | 54.2  | 53.6  | 51.4  | 49.1  | 49.1  | 48.6  | 49.1  |
| 75°   | 47.4  | 47.4  | 47.4  | 47.4  | 46.3  | 46.3  | 45.2  | 42.9  | 42.4  | 42.9  | 43.5  |
| 77.5° | 41.8  | 40.7  | 40.1  | 40.1  | 40.1  | 39.0  | 38.4  | 38.4  | 37.8  | 37.8  | 37.8  |
| 80°   | 34.4  | 33.3  | 32.2  | 31.6  | 32.2  | 32.2  | 33.3  | 33.3  | 32.8  | 32.8  | 32.8  |
| 82.5° | 27.1  | 24.8  | 24.3  | 24.3  | 23.2  | 24.3  | 26.5  | 29.4  | 28.2  | 28.8  | 28.8  |
| 85°   | 19.8  | 17.5  | 16.4  | 16.4  | 15.2  | 17.5  | 20.3  | 22.6  | 21.5  | 22.6  | 22.0  |
| 87.5° | 9.0   | 8.5   | 6.8   | 5.6   | 6.8   | 10.2  | 11.9  | 12.4  | 10.7  | 13.0  | 13.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 220°  | 225°  | 230°  | 235°  | 240°  | 245°  | 250°  | 255°  | 260°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |
| 2.5°  | 578.8 | 576.6 | 576.0 | 576.6 | 575.4 | 577.1 | 577.1 | 576.6 | 576.6 | 576.0 | 577.1 |
| 5°    | 582.2 | 579.4 | 577.7 | 577.7 | 576.6 | 578.3 | 577.1 | 576.6 | 576.0 | 576.0 | 576.0 |
| 7.5°  | 587.3 | 583.4 | 580.5 | 578.8 | 576.6 | 576.6 | 574.9 | 573.2 | 572.1 | 571.5 | 571.5 |
| 10°   | 591.8 | 586.2 | 581.7 | 577.7 | 574.3 | 571.5 | 568.7 | 564.7 | 563.6 | 562.5 | 563.0 |
| 12.5° | 591.3 | 585.0 | 578.3 | 572.1 | 564.2 | 560.8 | 553.4 | 548.9 | 548.9 | 546.1 | 547.8 |
| 15°   | 578.8 | 568.1 | 558.5 | 548.3 | 538.7 | 532.0 | 522.9 | 517.8 | 515.0 | 514.5 | 518.4 |
| 17.5° | 541.6 | 531.4 | 522.4 | 511.1 | 498.6 | 494.1 | 487.9 | 485.7 | 484.0 | 486.8 | 489.6 |
| 20°   | 491.3 | 478.3 | 469.8 | 463.1 | 463.1 | 461.9 | 459.1 | 455.2 | 451.8 | 451.2 | 454.6 |
| 22.5° | 420.1 | 415.1 | 416.8 | 412.2 | 412.2 | 410.0 | 414.5 | 407.2 | 411.1 | 407.7 | 409.4 |
| 25°   | 360.9 | 358.6 | 357.5 | 356.9 | 356.9 | 360.9 | 360.3 | 361.4 | 357.5 | 359.7 | 359.2 |
| 27.5° | 307.2 | 304.4 | 300.4 | 302.7 | 304.9 | 307.8 | 308.9 | 309.5 | 312.9 | 306.6 | 308.9 |
| 30°   | 255.8 | 251.3 | 254.1 | 251.9 | 253.0 | 252.4 | 252.4 | 252.4 | 254.7 | 259.2 | 255.8 |
| 32.5° | 209.5 | 207.3 | 210.1 | 206.1 | 206.7 | 206.7 | 205.6 | 203.9 | 205.0 | 199.9 | 203.9 |
| 35°   | 173.4 | 170.5 | 172.8 | 171.1 | 169.4 | 164.9 | 163.2 | 160.4 | 160.9 | 159.8 | 159.3 |
| 37.5° | 145.1 | 144.6 | 142.9 | 142.9 | 141.7 | 141.2 | 138.4 | 138.9 | 139.5 | 140.6 | 140.6 |
| 40°   | 125.4 | 124.8 | 124.2 | 125.4 | 125.9 | 126.5 | 127.6 | 128.8 | 130.4 | 132.1 | 133.8 |
| 42.5° | 114.1 | 114.1 | 114.1 | 116.3 | 118.0 | 120.8 | 122.5 | 124.8 | 127.1 | 129.9 | 132.1 |
| 45°   | 107.3 | 106.7 | 107.9 | 109.6 | 112.4 | 115.2 | 118.0 | 121.4 | 124.8 | 127.6 | 129.3 |
| 47.5° | 101.6 | 101.1 | 102.2 | 103.9 | 106.7 | 111.2 | 115.2 | 119.2 | 123.1 | 125.9 | 127.1 |
| 50°   | 94.3  | 94.3  | 94.9  | 96.6  | 99.4  | 103.3 | 107.3 | 111.8 | 115.8 | 118.0 | 119.2 |
| 52.5° | 88.7  | 89.2  | 89.2  | 90.9  | 93.7  | 97.1  | 101.1 | 105.0 | 107.9 | 109.6 | 111.8 |
| 55°   | 83.0  | 84.1  | 84.1  | 85.8  | 88.7  | 92.6  | 97.7  | 101.1 | 104.5 | 106.7 | 108.4 |
| 57.5° | 79.1  | 79.6  | 79.6  | 81.9  | 85.3  | 88.7  | 93.7  | 98.3  | 102.2 | 105.0 | 107.3 |
| 60°   | 75.7  | 76.2  | 75.7  | 78.5  | 81.3  | 85.3  | 89.8  | 94.9  | 100.5 | 104.5 | 106.2 |
| 62.5° | 72.8  | 72.8  | 72.3  | 74.5  | 76.2  | 78.5  | 82.4  | 88.1  | 93.2  | 96.6  | 98.3  |
| 65°   | 69.5  | 69.5  | 68.3  | 70.6  | 70.6  | 74.0  | 76.8  | 81.9  | 85.8  | 89.8  | 90.9  |
| 67.5° | 62.7  | 63.8  | 63.2  | 64.9  | 67.2  | 69.5  | 72.8  | 76.8  | 80.8  | 83.6  | 85.3  |
| 70°   | 55.9  | 56.5  | 58.2  | 59.3  | 61.6  | 62.7  | 65.5  | 68.3  | 72.3  | 74.0  | 75.7  |
| 72.5° | 49.7  | 50.3  | 51.4  | 52.5  | 54.8  | 55.9  | 58.2  | 60.4  | 63.8  | 65.5  | 67.2  |
| 75°   | 43.5  | 44.0  | 44.6  | 45.7  | 46.9  | 48.0  | 49.1  | 51.4  | 53.6  | 55.9  | 57.6  |
| 77.5° | 37.3  | 37.8  | 39.5  | 39.0  | 40.1  | 40.7  | 42.4  | 43.5  | 44.6  | 46.9  | 49.1  |
| 80°   | 32.8  | 32.2  | 33.3  | 33.9  | 35.0  | 35.0  | 36.1  | 36.1  | 37.8  | 37.8  | 38.4  |
| 82.5° | 27.7  | 27.1  | 28.2  | 29.9  | 30.5  | 30.5  | 31.6  | 29.4  | 28.8  | 29.4  | 31.1  |
| 85°   | 20.9  | 21.5  | 22.0  | 24.3  | 24.8  | 24.8  | 26.0  | 24.3  | 22.0  | 22.0  | 23.2  |
| 87.5° | 11.9  | 9.0   | 13.0  | 15.2  | 15.2  | 15.8  | 16.9  | 16.4  | 15.8  | 12.4  | 13.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|       | 275°  | 280°  | 285°  | 290°  | 295°  | 300°  | 305°  | 310°  | 315°  | 320°  | 325°  |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 0°    |
| 2.5°  | 576.6 | 577.1 | 577.7 | 578.3 | 578.8 | 578.3 | 579.4 | 578.3 | 578.8 | 577.7 | 577.1 | 2.5°  |
| 5°    | 576.0 | 576.6 | 576.6 | 577.7 | 578.3 | 576.6 | 577.7 | 576.0 | 576.0 | 574.9 | 573.2 | 5°    |
| 7.5°  | 572.1 | 573.2 | 573.2 | 574.3 | 574.3 | 572.6 | 572.6 | 569.2 | 568.1 | 564.2 | 561.3 | 7.5°  |
| 10°   | 564.2 | 565.8 | 567.0 | 569.2 | 570.4 | 567.5 | 565.8 | 561.9 | 557.4 | 552.9 | 548.3 | 10°   |
| 12.5° | 550.6 | 551.2 | 555.1 | 558.5 | 560.2 | 561.9 | 560.8 | 560.2 | 555.7 | 552.9 | 551.2 | 12.5° |
| 15°   | 519.5 | 524.1 | 528.0 | 535.9 | 541.6 | 547.8 | 552.3 | 557.4 | 559.6 | 562.5 | 563.6 | 15°   |
| 17.5° | 492.4 | 497.5 | 500.3 | 507.1 | 512.8 | 522.4 | 534.2 | 547.2 | 556.2 | 567.5 | 578.3 | 17.5° |
| 20°   | 454.6 | 463.1 | 465.3 | 476.1 | 483.4 | 495.8 | 508.8 | 525.2 | 543.3 | 560.8 | 580.0 | 20°   |
| 22.5° | 412.2 | 416.2 | 420.7 | 432.0 | 441.0 | 456.9 | 476.6 | 499.2 | 520.1 | 544.4 | 572.1 | 22.5° |
| 25°   | 360.9 | 365.9 | 370.5 | 382.9 | 395.9 | 410.5 | 434.3 | 461.9 | 488.5 | 520.7 | 556.8 | 25°   |
| 27.5° | 310.0 | 314.0 | 321.9 | 330.9 | 345.6 | 361.4 | 390.8 | 421.3 | 451.8 | 490.7 | 533.7 | 27.5° |
| 30°   | 256.9 | 260.9 | 264.9 | 275.6 | 290.8 | 309.5 | 336.0 | 372.1 | 408.3 | 450.1 | 500.9 | 30°   |
| 32.5° | 206.1 | 207.3 | 215.2 | 223.1 | 236.1 | 251.9 | 280.7 | 315.7 | 354.6 | 405.5 | 455.7 | 32.5° |
| 35°   | 160.9 | 167.7 | 171.1 | 181.8 | 189.7 | 206.1 | 230.4 | 262.6 | 303.3 | 354.6 | 408.9 | 35°   |
| 37.5° | 142.9 | 145.1 | 149.7 | 157.6 | 168.3 | 183.0 | 199.9 | 224.8 | 259.8 | 303.3 | 354.1 | 37.5° |
| 40°   | 136.1 | 138.4 | 141.7 | 148.0 | 158.1 | 171.7 | 185.8 | 205.6 | 232.7 | 267.1 | 312.9 | 40°   |
| 42.5° | 133.8 | 134.4 | 135.5 | 141.2 | 151.3 | 166.6 | 183.5 | 202.2 | 223.1 | 250.7 | 286.9 | 42.5° |
| 45°   | 131.0 | 131.0 | 131.6 | 135.5 | 144.6 | 160.4 | 181.8 | 205.6 | 229.3 | 254.1 | 284.6 | 45°   |
| 47.5° | 128.8 | 129.3 | 128.8 | 130.4 | 137.2 | 152.5 | 176.2 | 205.0 | 236.6 | 268.8 | 302.1 | 47.5° |
| 50°   | 119.7 | 119.7 | 120.3 | 120.8 | 125.9 | 140.6 | 163.8 | 195.4 | 234.4 | 277.8 | 323.6 | 50°   |
| 52.5° | 112.4 | 113.5 | 113.5 | 114.6 | 118.0 | 129.9 | 153.0 | 186.4 | 228.7 | 279.5 | 341.1 | 52.5° |
| 55°   | 110.1 | 111.2 | 111.8 | 111.8 | 114.1 | 124.2 | 146.3 | 177.9 | 222.5 | 277.8 | 347.9 | 55°   |
| 57.5° | 108.4 | 109.6 | 110.1 | 109.6 | 111.2 | 119.7 | 140.0 | 171.1 | 215.7 | 273.9 | 350.7 | 57.5° |
| 60°   | 106.7 | 107.3 | 106.2 | 105.0 | 105.6 | 112.9 | 131.0 | 161.5 | 207.8 | 268.2 | 349.6 | 60°   |
| 62.5° | 98.8  | 99.4  | 98.3  | 97.1  | 96.0  | 101.6 | 118.0 | 148.0 | 191.4 | 255.3 | 340.5 | 62.5° |
| 65°   | 92.0  | 92.0  | 92.0  | 90.9  | 89.8  | 93.2  | 105.0 | 130.4 | 168.3 | 232.1 | 319.6 | 65°   |
| 67.5° | 86.4  | 85.8  | 85.8  | 85.3  | 84.1  | 85.3  | 92.6  | 110.1 | 139.5 | 195.4 | 281.8 | 67.5° |
| 70°   | 77.4  | 76.8  | 77.4  | 76.8  | 75.7  | 75.7  | 79.1  | 88.7  | 108.4 | 143.4 | 219.1 | 70°   |
| 72.5° | 68.3  | 68.9  | 70.0  | 70.0  | 70.0  | 70.6  | 70.6  | 73.4  | 84.1  | 102.8 | 149.1 | 72.5° |
| 75°   | 58.7  | 59.3  | 61.0  | 63.2  | 62.1  | 62.7  | 62.7  | 64.4  | 70.0  | 81.3  | 104.5 | 75°   |
| 77.5° | 49.7  | 51.4  | 53.6  | 54.2  | 52.5  | 52.5  | 53.6  | 56.5  | 61.6  | 68.3  | 79.6  | 77.5° |
| 80°   | 40.7  | 42.9  | 43.5  | 44.6  | 45.2  | 45.2  | 46.3  | 48.6  | 53.6  | 62.1  | 71.2  | 80°   |
| 82.5° | 32.2  | 33.9  | 35.6  | 37.3  | 38.4  | 40.1  | 40.7  | 41.8  | 46.9  | 55.3  | 65.5  | 82.5° |
| 85°   | 24.3  | 26.0  | 28.2  | 29.9  | 31.1  | 32.8  | 32.2  | 32.8  | 35.6  | 42.4  | 49.7  | 85°   |
| 87.5° | 14.7  | 14.7  | 16.4  | 16.9  | 17.5  | 17.5  | 18.6  | 16.4  | 17.5  | 22.6  | 27.1  | 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: EMM-F02-LED-E1-SLL-7050

**DISTRIBUTION (continued):**

| 330°  | 335°  | 340°  | 345°   | 350°   | 355°   | 360°   |
|-------|-------|-------|--------|--------|--------|--------|
| 576.0 | 576.0 | 576.0 | 576.0  | 576.0  | 576.0  | 576.0  |
| 577.7 | 577.1 | 576.6 | 577.1  | 578.3  | 578.3  | 576.6  |
| 573.8 | 572.1 | 570.9 | 570.9  | 570.9  | 570.4  | 569.2  |
| 560.2 | 557.4 | 555.7 | 554.6  | 554.0  | 554.0  | 551.7  |
| 545.5 | 543.8 | 540.4 | 539.3  | 539.9  | 541.6  | 541.0  |
| 548.9 | 543.8 | 542.1 | 542.1  | 541.6  | 544.4  | 543.8  |
| 567.5 | 567.5 | 565.3 | 564.7  | 563.6  | 567.0  | 567.0  |
| 587.3 | 592.4 | 594.6 | 592.4  | 593.0  | 593.5  | 598.0  |
| 598.0 | 612.7 | 620.6 | 626.8  | 627.4  | 630.8  | 630.2  |
| 599.7 | 626.3 | 647.2 | 660.7  | 673.1  | 679.4  | 678.2  |
| 591.3 | 628.0 | 664.7 | 699.1  | 725.1  | 739.2  | 751.1  |
| 580.0 | 623.4 | 670.9 | 719.4  | 761.8  | 799.6  | 823.4  |
| 553.4 | 608.8 | 669.8 | 731.9  | 792.3  | 846.5  | 890.6  |
| 516.2 | 580.0 | 652.8 | 734.7  | 819.4  | 894.5  | 958.9  |
| 466.5 | 534.8 | 623.4 | 724.0  | 835.8  | 947.6  | 1044.7 |
| 412.8 | 487.9 | 585.0 | 705.9  | 844.3  | 989.9  | 1123.2 |
| 365.9 | 439.9 | 546.1 | 682.7  | 843.1  | 1017.6 | 1180.8 |
| 335.4 | 404.9 | 512.2 | 660.7  | 837.5  | 1033.4 | 1226.0 |
| 325.3 | 388.0 | 489.6 | 643.2  | 834.1  | 1044.7 | 1257.1 |
| 338.8 | 393.0 | 484.5 | 635.3  | 833.0  | 1057.7 | 1284.2 |
| 370.5 | 421.3 | 503.7 | 648.3  | 843.1  | 1070.7 | 1311.3 |
| 400.4 | 460.8 | 545.5 | 685.6  | 881.0  | 1108.5 | 1348.5 |
| 424.7 | 503.7 | 590.7 | 734.7  | 935.2  | 1167.3 | 1404.5 |
| 438.2 | 537.0 | 649.4 | 803.0  | 1009.1 | 1253.7 | 1495.9 |
| 443.9 | 560.2 | 699.7 | 874.7  | 1102.3 | 1352.5 | 1611.7 |
| 441.6 | 570.9 | 735.8 | 940.3  | 1186.5 | 1460.9 | 1743.3 |
| 427.5 | 570.9 | 758.4 | 992.8  | 1257.1 | 1547.3 | 1859.0 |
| 393.6 | 551.2 | 760.7 | 1023.3 | 1311.3 | 1620.2 | 1953.9 |
| 331.5 | 494.1 | 722.8 | 1019.9 | 1328.2 | 1643.3 | 2003.6 |
| 232.1 | 368.8 | 603.1 | 921.6  | 1255.9 | 1588.5 | 1948.8 |
| 144.0 | 229.8 | 432.0 | 712.7  | 1045.3 | 1348.0 | 1734.2 |
| 101.1 | 139.5 | 247.3 | 451.2  | 719.4  | 1004.6 | 1294.9 |
| 84.1  | 102.8 | 141.2 | 248.5  | 432.6  | 618.9  | 814.3  |
| 72.8  | 83.0  | 98.3  | 141.7  | 220.2  | 329.8  | 453.5  |
| 54.2  | 60.4  | 67.8  | 93.2   | 138.9  | 203.9  | 310.0  |
| 22.0  | 24.8  | 27.7  | 37.3   | 85.3   | 117.5  | 125.9  |
| 0.0   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)