

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: STREETWORKS

Report Number: P140573

Luminaire Tested: **MEM-F04-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140573  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33687)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: MEM-F04-LED-E-U-5WQ-8030  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8325.6 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 28.75 FT

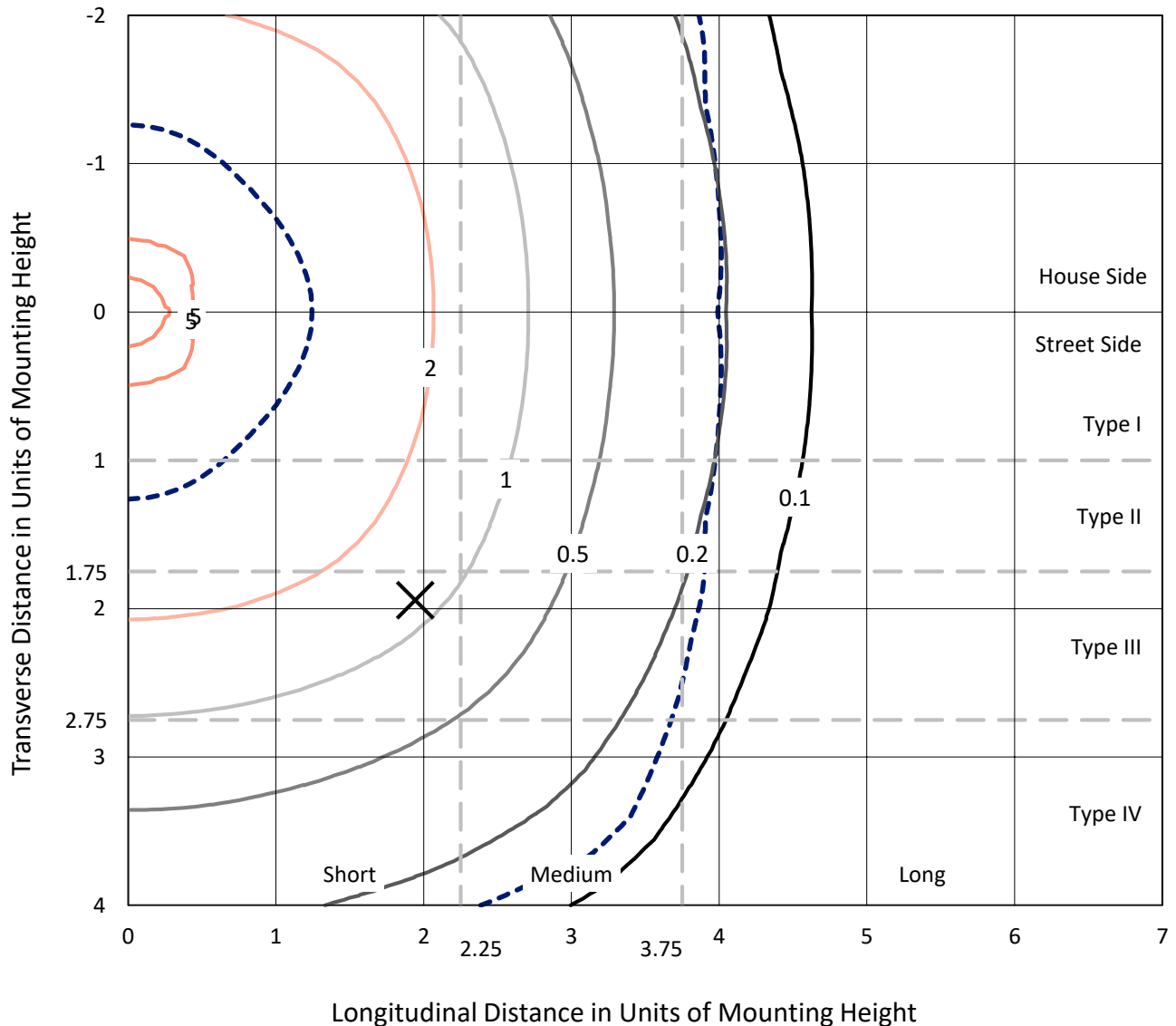


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

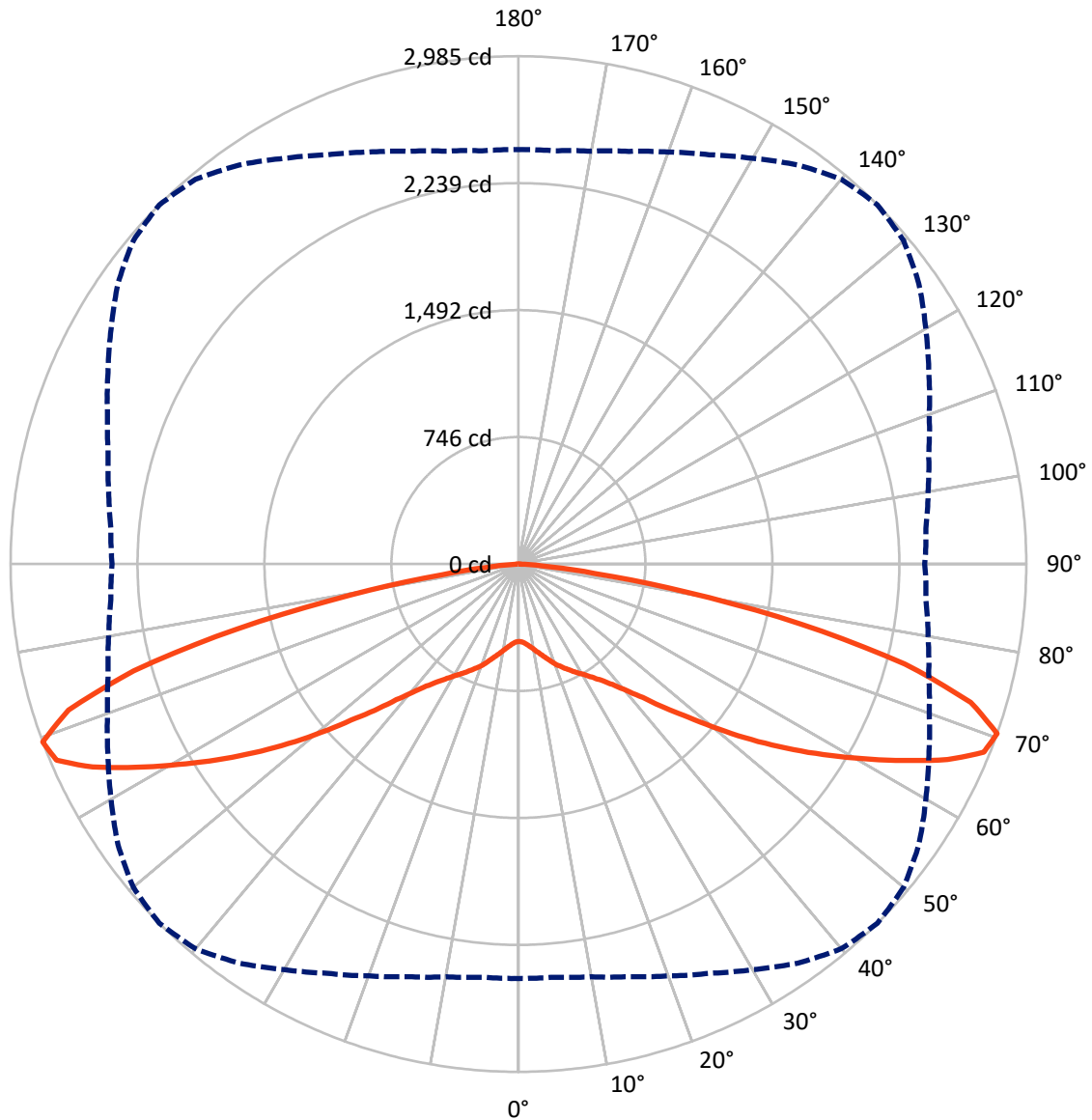


Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4162.8   | 0.0    | 4162.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4162.8   | 0.0    | 4162.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8325.6   | 0.0    | 8325.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.2   | 0.6       |
| 10°-20°   | 161.2  | 1.9       |
| 20°-30°   | 316.8  | 3.8       |
| 30°-40°   | 524.1  | 6.3       |
| 40°-50°   | 917.5  | 11.0      |
| 50°-60°   | 1636.5 | 19.7      |
| 60°-70°   | 2526.5 | 30.3      |
| 70°-80°   | 1999.9 | 24.0      |
| 80°-90°   | 196.8  | 2.4       |
| 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°    | 8325.6 | 100.0     |
| 0°-180°   | 8325.6 | 100.0     |



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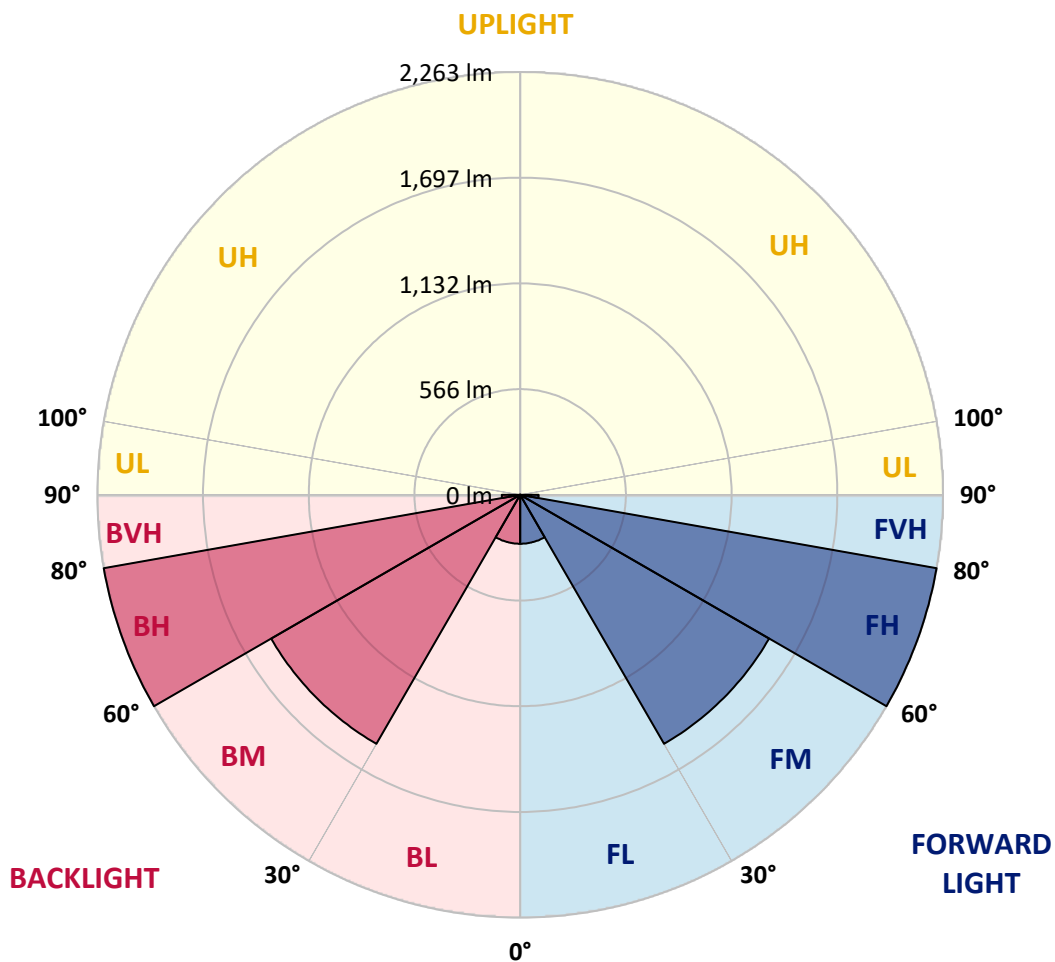
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 262.1  | 3.1       |                         |      |         |
| FM   | (30°-60°)   | 1539.1 | 18.5      |                         |      |         |
| FH   | (60°-80°)   | 2263.2 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 98.4   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 262.1  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1539.1 | 18.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2263.2 | 27.2      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 98.4   | 1.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  |
| 2.5°  | 460.8  | 460.8  | 459.8  | 459.8  | 459.8  | 459.8  | 458.9  | 458.9  | 459.8  | 458.9  | 458.9  |
| 5°    | 471.9  | 472.9  | 472.9  | 471.9  | 471.9  | 471.9  | 471.9  | 471.9  | 472.9  | 471.9  | 471.9  |
| 7.5°  | 488.6  | 489.6  | 489.6  | 488.6  | 488.6  | 488.6  | 488.6  | 488.6  | 489.6  | 489.6  | 487.7  |
| 10°   | 509.1  | 510.0  | 510.0  | 509.1  | 509.1  | 510.0  | 510.0  | 510.0  | 510.9  | 510.9  | 510.0  |
| 12.5° | 533.2  | 534.2  | 535.1  | 534.2  | 535.1  | 535.1  | 536.0  | 537.0  | 537.0  | 537.0  | 535.1  |
| 15°   | 561.1  | 563.9  | 562.0  | 562.0  | 563.0  | 563.9  | 563.9  | 566.7  | 565.7  | 564.8  | 563.9  |
| 17.5° | 593.6  | 592.7  | 592.7  | 593.6  | 594.5  | 593.6  | 594.5  | 597.3  | 596.4  | 595.5  | 594.5  |
| 20°   | 624.3  | 624.3  | 624.3  | 623.3  | 625.2  | 625.2  | 626.1  | 627.1  | 627.1  | 628.9  | 626.1  |
| 22.5° | 654.0  | 654.0  | 653.1  | 653.1  | 654.9  | 654.9  | 656.8  | 658.6  | 658.6  | 658.6  | 656.8  |
| 25°   | 681.9  | 681.9  | 682.8  | 681.9  | 682.8  | 683.7  | 685.6  | 687.4  | 688.4  | 688.4  | 688.4  |
| 27.5° | 707.0  | 709.7  | 708.8  | 709.7  | 711.6  | 713.5  | 715.3  | 718.1  | 720.0  | 720.9  | 718.1  |
| 30°   | 738.5  | 738.5  | 737.6  | 738.5  | 740.4  | 743.2  | 746.9  | 751.5  | 751.5  | 752.5  | 752.5  |
| 32.5° | 772.0  | 772.9  | 771.1  | 772.9  | 775.7  | 779.4  | 783.1  | 786.8  | 788.7  | 792.4  | 791.5  |
| 35°   | 815.6  | 812.9  | 813.8  | 816.6  | 818.4  | 822.1  | 826.8  | 833.3  | 837.0  | 838.9  | 837.0  |
| 37.5° | 865.8  | 864.9  | 866.7  | 866.7  | 873.2  | 877.0  | 885.3  | 890.9  | 893.7  | 898.3  | 896.5  |
| 40°   | 929.0  | 932.7  | 933.6  | 936.4  | 940.1  | 947.6  | 956.9  | 966.1  | 971.7  | 975.4  | 976.4  |
| 42.5° | 1014.4 | 1016.3 | 1012.6 | 1022.8 | 1033.0 | 1037.7 | 1048.8 | 1061.8 | 1070.2 | 1073.0 | 1073.9 |
| 45°   | 1119.4 | 1119.4 | 1125.0 | 1131.5 | 1144.5 | 1153.8 | 1165.9 | 1187.2 | 1194.7 | 1204.9 | 1204.9 |
| 47.5° | 1244.8 | 1248.6 | 1248.6 | 1263.4 | 1273.6 | 1292.2 | 1315.4 | 1333.1 | 1348.9 | 1344.2 | 1360.0 |
| 50°   | 1389.8 | 1392.5 | 1402.8 | 1411.1 | 1428.8 | 1450.1 | 1471.5 | 1497.5 | 1520.7 | 1523.5 | 1526.3 |
| 52.5° | 1541.2 | 1544.9 | 1553.3 | 1572.8 | 1594.1 | 1618.3 | 1657.3 | 1679.6 | 1701.9 | 1714.0 | 1712.1 |
| 55°   | 1714.9 | 1713.0 | 1727.0 | 1741.8 | 1773.4 | 1805.9 | 1838.5 | 1870.0 | 1893.3 | 1910.0 | 1909.1 |
| 57.5° | 1897.0 | 1903.5 | 1919.3 | 1937.9 | 1964.8 | 1993.6 | 2032.6 | 2064.2 | 2102.3 | 2112.5 | 2097.6 |
| 60°   | 2108.8 | 2102.3 | 2118.1 | 2146.9 | 2171.0 | 2208.2 | 2242.6 | 2283.4 | 2310.4 | 2322.5 | 2317.8 |
| 62.5° | 2325.2 | 2319.7 | 2331.7 | 2368.9 | 2397.7 | 2424.6 | 2472.0 | 2516.6 | 2538.9 | 2543.5 | 2535.2 |
| 65°   | 2484.1 | 2486.0 | 2505.5 | 2538.0 | 2583.5 | 2624.4 | 2677.3 | 2731.2 | 2766.5 | 2772.1 | 2753.5 |
| 67.5° | 2521.3 | 2525.0 | 2551.9 | 2593.7 | 2650.4 | 2718.2 | 2797.2 | 2877.1 | 2937.4 | 2950.4 | 2923.5 |
| 70°   | 2435.8 | 2437.6 | 2463.7 | 2511.0 | 2576.1 | 2654.1 | 2752.6 | 2863.1 | 2951.4 | 2984.8 | 2955.1 |
| 72.5° | 2260.2 | 2267.6 | 2289.0 | 2329.0 | 2380.0 | 2457.2 | 2551.9 | 2650.4 | 2737.7 | 2780.4 | 2780.4 |
| 75°   | 1943.4 | 1960.1 | 1970.4 | 1983.4 | 2028.0 | 2090.2 | 2167.3 | 2245.3 | 2322.5 | 2346.6 | 2278.8 |
| 77.5° | 1387.0 | 1359.1 | 1365.6 | 1438.1 | 1427.8 | 1498.4 | 1583.9 | 1639.7 | 1708.4 | 1698.2 | 1600.6 |
| 80°   | 636.4  | 620.6  | 656.8  | 705.1  | 766.4  | 813.8  | 905.8  | 915.0  | 994.0  | 998.7  | 928.1  |
| 82.5° | 127.3  | 133.8  | 159.8  | 196.9  | 245.3  | 298.2  | 346.5  | 387.4  | 441.3  | 451.5  | 419.0  |
| 85°   | 39.9   | 43.7   | 54.8   | 60.4   | 63.2   | 72.5   | 82.7   | 111.5  | 128.2  | 132.8  | 124.5  |
| 87.5° | 8.4    | 13.0   | 21.4   | 24.2   | 25.1   | 24.2   | 24.2   | 23.2   | 18.6   | 14.9   | 17.7   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  | 455.2  |
| 2.5°  | 458.0  | 458.0  | 458.9  | 458.9  | 458.9  | 458.0  | 457.1  | 458.0  |
| 5°    | 471.0  | 471.0  | 471.0  | 471.0  | 469.1  | 469.1  | 468.2  | 468.2  |
| 7.5°  | 487.7  | 486.8  | 486.8  | 485.9  | 484.9  | 484.9  | 484.0  | 484.9  |
| 10°   | 510.0  | 508.2  | 507.2  | 506.3  | 505.4  | 505.4  | 504.4  | 503.5  |
| 12.5° | 534.2  | 533.2  | 532.3  | 530.4  | 529.5  | 527.7  | 527.7  | 527.7  |
| 15°   | 562.0  | 561.1  | 560.2  | 557.4  | 557.4  | 554.6  | 555.5  | 555.5  |
| 17.5° | 592.7  | 590.8  | 588.0  | 587.1  | 586.2  | 583.4  | 583.4  | 583.4  |
| 20°   | 624.3  | 620.6  | 618.7  | 616.8  | 616.8  | 614.1  | 613.1  | 613.1  |
| 22.5° | 654.9  | 651.2  | 647.5  | 645.6  | 643.8  | 642.9  | 641.0  | 640.1  |
| 25°   | 685.6  | 681.9  | 678.2  | 675.4  | 671.7  | 669.8  | 667.9  | 667.9  |
| 27.5° | 716.2  | 712.5  | 707.0  | 703.2  | 699.5  | 695.8  | 693.9  | 694.9  |
| 30°   | 747.8  | 744.1  | 738.5  | 733.9  | 729.2  | 725.5  | 723.7  | 722.7  |
| 32.5° | 787.8  | 783.1  | 776.6  | 772.0  | 763.6  | 759.9  | 758.0  | 759.0  |
| 35°   | 834.2  | 827.7  | 823.1  | 815.6  | 809.1  | 804.5  | 801.7  | 801.7  |
| 37.5° | 893.7  | 888.1  | 883.5  | 876.0  | 866.7  | 861.2  | 857.4  | 860.2  |
| 40°   | 970.8  | 966.1  | 956.9  | 945.7  | 938.3  | 933.6  | 929.9  | 930.8  |
| 42.5° | 1069.3 | 1060.0 | 1051.6 | 1045.1 | 1034.0 | 1027.5 | 1017.2 | 1020.9 |
| 45°   | 1193.7 | 1183.5 | 1175.2 | 1164.9 | 1154.7 | 1141.7 | 1138.0 | 1130.6 |
| 47.5° | 1344.2 | 1336.8 | 1318.2 | 1308.9 | 1295.9 | 1277.3 | 1268.1 | 1260.6 |
| 50°   | 1510.5 | 1496.6 | 1483.6 | 1460.4 | 1445.5 | 1424.1 | 1415.8 | 1413.0 |
| 52.5° | 1698.2 | 1675.0 | 1653.6 | 1632.2 | 1602.5 | 1582.1 | 1565.3 | 1569.0 |
| 55°   | 1884.0 | 1857.0 | 1826.4 | 1803.2 | 1779.9 | 1754.8 | 1737.2 | 1727.0 |
| 57.5° | 2080.0 | 2050.3 | 2017.7 | 1984.3 | 1964.8 | 1935.1 | 1923.9 | 1918.3 |
| 60°   | 2281.6 | 2254.6 | 2222.1 | 2191.5 | 2164.5 | 2130.2 | 2111.6 | 2104.1 |
| 62.5° | 2504.5 | 2467.4 | 2428.4 | 2390.3 | 2360.5 | 2335.5 | 2315.9 | 2302.9 |
| 65°   | 2709.8 | 2658.7 | 2618.8 | 2570.5 | 2538.0 | 2501.7 | 2477.6 | 2472.9 |
| 67.5° | 2863.1 | 2784.2 | 2714.5 | 2652.2 | 2602.1 | 2557.5 | 2526.8 | 2514.8 |
| 70°   | 2873.3 | 2764.6 | 2661.5 | 2569.6 | 2496.2 | 2445.1 | 2404.2 | 2388.4 |
| 72.5° | 2674.5 | 2539.8 | 2400.5 | 2310.4 | 2232.3 | 2161.7 | 2132.9 | 2126.4 |
| 75°   | 2175.7 | 2063.3 | 1947.1 | 1845.0 | 1791.1 | 1755.8 | 1731.6 | 1696.3 |
| 77.5° | 1511.5 | 1408.3 | 1346.1 | 1231.8 | 1211.4 | 1182.6 | 1158.4 | 1135.2 |
| 80°   | 846.3  | 756.2  | 686.5  | 615.0  | 571.3  | 547.2  | 522.1  | 508.2  |
| 82.5° | 380.0  | 312.1  | 248.0  | 192.3  | 158.9  | 125.4  | 93.8   | 99.4   |
| 85°   | 94.8   | 79.9   | 61.3   | 51.1   | 46.4   | 42.7   | 34.4   | 30.7   |
| 87.5° | 17.7   | 16.7   | 14.9   | 14.9   | 15.8   | 13.0   | 7.4    | 6.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)