

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: P140558

Luminaire Tested: **MEM-E03-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140558  
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-E03-LED-E-U-5WQ-8030  
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7563.9 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 75.2  
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: 28.75 FT

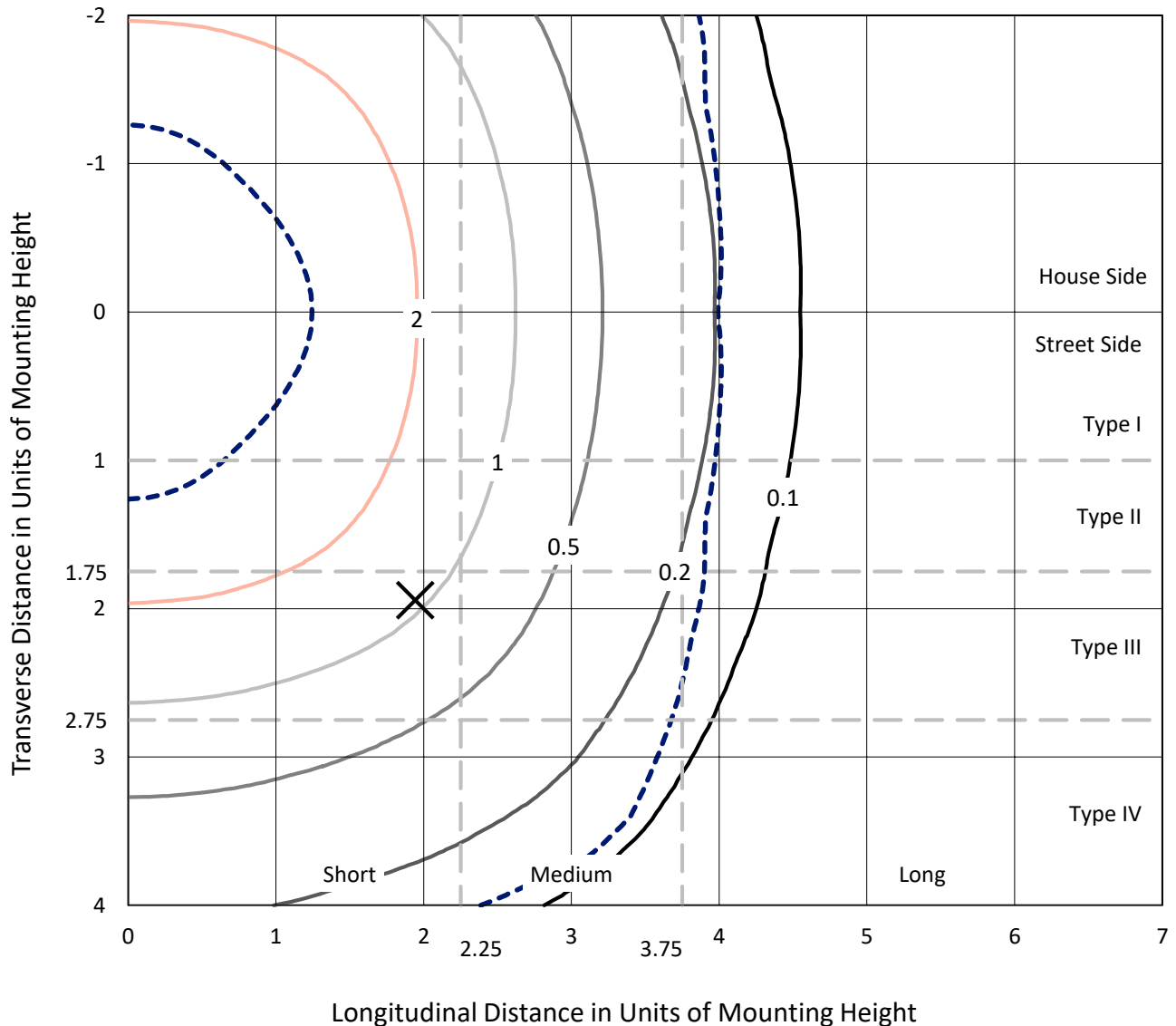


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

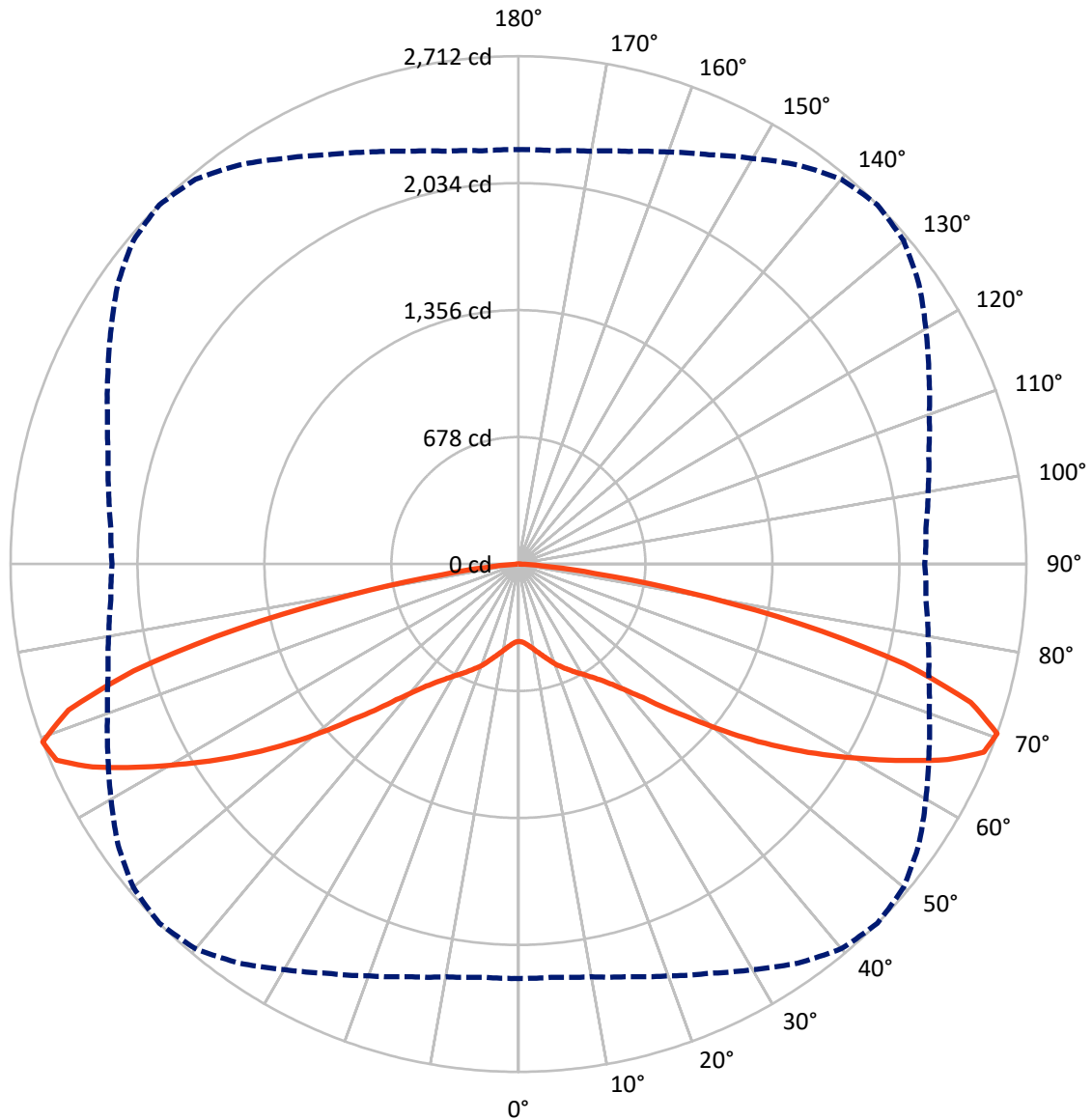


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - Semi-Cutoff

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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    | 3781.9   | 0.0    | 3781.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3781.9   | 0.0    | 3781.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7563.9   | 0.0    | 7563.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.9   | 0.6       |
| 10°-20°   | 146.5  | 1.9       |
| 20°-30°   | 287.8  | 3.8       |
| 30°-40°   | 476.2  | 6.3       |
| 40°-50°   | 833.6  | 11.0      |
| 50°-60°   | 1486.8 | 19.7      |
| 60°-70°   | 2295.4 | 30.3      |
| 70°-80°   | 1817.0 | 24.0      |
| 80°-90°   | 178.8  | 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°    | 7563.9 | 100.0     |
| 0°-180°   | 7563.9 | 100.0     |



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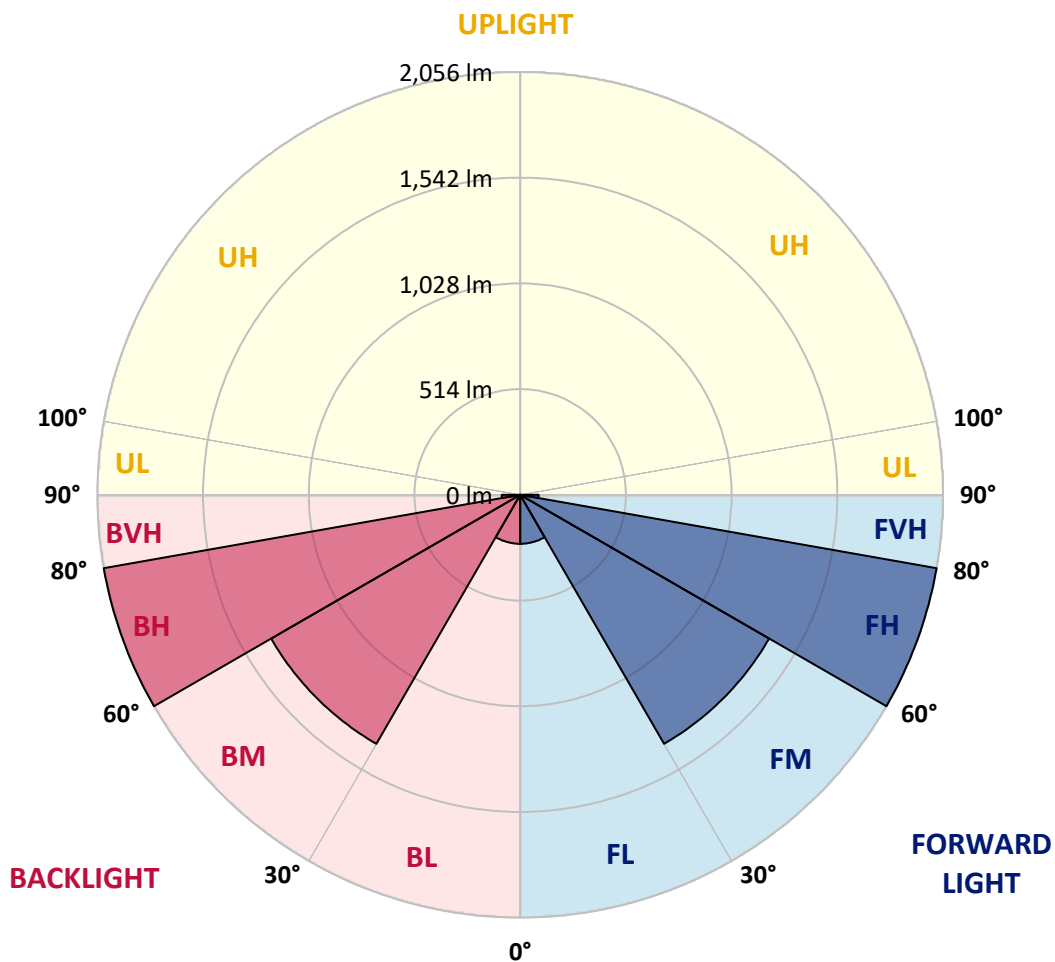
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 238.1  | 3.1       |                         |      |         |
| FM   | (30°-60°)   | 1398.3 | 18.5      |                         |      |         |
| FH   | (60°-80°)   | 2056.2 | 27.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 89.4   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 238.1  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1398.3 | 18.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2056.2 | 27.2      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 89.4   | 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°    | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  |
| 2.5°  | 418.6  | 418.6  | 417.8  | 417.8  | 417.8  | 417.8  | 416.9  | 416.9  | 417.8  | 416.9  | 416.9  |
| 5°    | 428.7  | 429.6  | 429.6  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 429.6  | 428.7  | 428.7  |
| 7.5°  | 443.9  | 444.8  | 444.8  | 443.9  | 443.9  | 443.9  | 443.9  | 443.9  | 444.8  | 444.8  | 443.1  |
| 10°   | 462.5  | 463.4  | 463.4  | 462.5  | 462.5  | 463.4  | 463.4  | 463.4  | 464.2  | 464.2  | 463.4  |
| 12.5° | 484.5  | 485.3  | 486.1  | 485.3  | 486.1  | 486.1  | 487.0  | 487.8  | 487.8  | 487.8  | 486.1  |
| 15°   | 509.8  | 512.3  | 510.6  | 510.6  | 511.5  | 512.3  | 512.3  | 514.8  | 514.0  | 513.1  | 512.3  |
| 17.5° | 539.3  | 538.5  | 538.5  | 539.3  | 540.2  | 539.3  | 540.2  | 542.7  | 541.8  | 541.0  | 540.2  |
| 20°   | 567.2  | 567.2  | 567.2  | 566.3  | 568.0  | 568.0  | 568.8  | 569.7  | 569.7  | 571.4  | 568.8  |
| 22.5° | 594.2  | 594.2  | 593.3  | 593.3  | 595.0  | 595.0  | 596.7  | 598.4  | 598.4  | 598.4  | 596.7  |
| 25°   | 619.5  | 619.5  | 620.3  | 619.5  | 620.3  | 621.2  | 622.9  | 624.6  | 625.4  | 625.4  | 625.4  |
| 27.5° | 642.3  | 644.8  | 644.0  | 644.8  | 646.5  | 648.2  | 649.9  | 652.4  | 654.1  | 654.9  | 652.4  |
| 30°   | 671.0  | 671.0  | 670.1  | 671.0  | 672.7  | 675.2  | 678.6  | 682.8  | 682.8  | 683.6  | 683.6  |
| 32.5° | 701.4  | 702.2  | 700.5  | 702.2  | 704.7  | 708.1  | 711.5  | 714.9  | 716.5  | 719.9  | 719.1  |
| 35°   | 741.0  | 738.5  | 739.3  | 741.9  | 743.6  | 746.9  | 751.2  | 757.1  | 760.4  | 762.1  | 760.4  |
| 37.5° | 786.6  | 785.8  | 787.4  | 787.4  | 793.4  | 796.7  | 804.3  | 809.4  | 811.9  | 816.1  | 814.5  |
| 40°   | 844.0  | 847.4  | 848.2  | 850.7  | 854.1  | 860.9  | 869.3  | 877.8  | 882.8  | 886.2  | 887.0  |
| 42.5° | 921.6  | 923.3  | 920.0  | 929.2  | 938.5  | 942.7  | 952.9  | 964.7  | 972.3  | 974.8  | 975.7  |
| 45°   | 1017.0 | 1017.0 | 1022.1 | 1028.0 | 1039.8 | 1048.2 | 1059.2 | 1078.6 | 1085.4 | 1094.7 | 1094.7 |
| 47.5° | 1130.9 | 1134.3 | 1134.3 | 1147.8 | 1157.1 | 1174.0 | 1195.1 | 1211.1 | 1225.5 | 1221.3 | 1235.6 |
| 50°   | 1262.6 | 1265.1 | 1274.4 | 1282.0 | 1298.1 | 1317.5 | 1336.9 | 1360.5 | 1381.6 | 1384.1 | 1386.7 |
| 52.5° | 1400.2 | 1403.6 | 1411.2 | 1428.9 | 1448.3 | 1470.2 | 1505.7 | 1525.9 | 1546.2 | 1557.2 | 1555.5 |
| 55°   | 1558.0 | 1556.3 | 1569.0 | 1582.5 | 1611.2 | 1640.7 | 1670.3 | 1699.0 | 1720.1 | 1735.2 | 1734.4 |
| 57.5° | 1723.4 | 1729.3 | 1743.7 | 1760.6 | 1785.0 | 1811.2 | 1846.7 | 1875.3 | 1910.0 | 1919.2 | 1905.7 |
| 60°   | 1915.9 | 1910.0 | 1924.3 | 1950.5 | 1972.4 | 2006.2 | 2037.4 | 2074.5 | 2099.0 | 2110.0 | 2105.8 |
| 62.5° | 2112.5 | 2107.4 | 2118.4 | 2152.2 | 2178.3 | 2202.8 | 2245.9 | 2286.4 | 2306.6 | 2310.8 | 2303.3 |
| 65°   | 2256.8 | 2258.5 | 2276.2 | 2305.8 | 2347.1 | 2384.3 | 2432.4 | 2481.3 | 2513.4 | 2518.5 | 2501.6 |
| 67.5° | 2290.6 | 2294.0 | 2318.4 | 2356.4 | 2407.9 | 2469.5 | 2541.3 | 2613.8 | 2668.7 | 2680.5 | 2656.0 |
| 70°   | 2212.9 | 2214.6 | 2238.3 | 2281.3 | 2340.4 | 2411.3 | 2500.7 | 2601.2 | 2681.4 | 2711.7 | 2684.7 |
| 72.5° | 2053.4 | 2060.2 | 2079.6 | 2115.9 | 2162.3 | 2232.4 | 2318.4 | 2407.9 | 2487.2 | 2526.1 | 2526.1 |
| 75°   | 1765.6 | 1780.8 | 1790.1 | 1801.9 | 1842.4 | 1899.0 | 1969.0 | 2039.9 | 2110.0 | 2131.9 | 2070.3 |
| 77.5° | 1260.1 | 1234.8 | 1240.7 | 1306.5 | 1297.2 | 1361.4 | 1439.0 | 1489.6 | 1552.1 | 1542.8 | 1454.2 |
| 80°   | 578.1  | 563.8  | 596.7  | 640.6  | 696.3  | 739.3  | 822.9  | 831.3  | 903.1  | 907.3  | 843.1  |
| 82.5° | 115.6  | 121.5  | 145.2  | 178.9  | 222.8  | 270.9  | 314.8  | 351.9  | 400.9  | 410.2  | 380.6  |
| 85°   | 36.3   | 39.7   | 49.8   | 54.9   | 57.4   | 65.8   | 75.1   | 101.3  | 116.5  | 120.7  | 113.1  |
| 87.5° | 7.6    | 11.8   | 19.4   | 21.9   | 22.8   | 21.9   | 21.9   | 21.1   | 16.9   | 13.5   | 16.0   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  | 413.6  |
| 2.5°  | 416.1  | 416.1  | 416.9  | 416.9  | 416.9  | 416.1  | 415.2  | 416.1  |
| 5°    | 427.9  | 427.9  | 427.9  | 427.9  | 426.2  | 426.2  | 425.4  | 425.4  |
| 7.5°  | 443.1  | 442.3  | 442.3  | 441.4  | 440.6  | 440.6  | 439.7  | 440.6  |
| 10°   | 463.4  | 461.7  | 460.8  | 460.0  | 459.1  | 459.1  | 458.3  | 457.4  |
| 12.5° | 485.3  | 484.5  | 483.6  | 481.9  | 481.1  | 479.4  | 479.4  | 479.4  |
| 15°   | 510.6  | 509.8  | 508.9  | 506.4  | 506.4  | 503.9  | 504.7  | 504.7  |
| 17.5° | 538.5  | 536.8  | 534.2  | 533.4  | 532.6  | 530.0  | 530.0  | 530.0  |
| 20°   | 567.2  | 563.8  | 562.1  | 560.4  | 560.4  | 557.9  | 557.0  | 557.0  |
| 22.5° | 595.0  | 591.6  | 588.3  | 586.6  | 584.9  | 584.0  | 582.4  | 581.5  |
| 25°   | 622.9  | 619.5  | 616.1  | 613.6  | 610.2  | 608.5  | 606.8  | 606.8  |
| 27.5° | 650.7  | 647.3  | 642.3  | 638.9  | 635.5  | 632.1  | 630.5  | 631.3  |
| 30°   | 679.4  | 676.0  | 671.0  | 666.8  | 662.5  | 659.2  | 657.5  | 656.6  |
| 32.5° | 715.7  | 711.5  | 705.6  | 701.4  | 693.8  | 690.4  | 688.7  | 689.5  |
| 35°   | 757.9  | 752.0  | 747.8  | 741.0  | 735.1  | 730.9  | 728.4  | 728.4  |
| 37.5° | 811.9  | 806.9  | 802.6  | 795.9  | 787.4  | 782.4  | 779.0  | 781.5  |
| 40°   | 882.0  | 877.8  | 869.3  | 859.2  | 852.4  | 848.2  | 844.8  | 845.7  |
| 42.5° | 971.4  | 963.0  | 955.4  | 949.5  | 939.4  | 933.5  | 924.2  | 927.5  |
| 45°   | 1084.5 | 1075.2 | 1067.6 | 1058.4 | 1049.1 | 1037.3 | 1033.9 | 1027.1 |
| 47.5° | 1221.3 | 1214.5 | 1197.6 | 1189.2 | 1177.4 | 1160.5 | 1152.0 | 1145.3 |
| 50°   | 1372.3 | 1359.7 | 1347.9 | 1326.8 | 1313.2 | 1293.8 | 1286.2 | 1283.7 |
| 52.5° | 1542.8 | 1521.7 | 1502.3 | 1482.9 | 1455.9 | 1437.3 | 1422.1 | 1425.5 |
| 55°   | 1711.6 | 1687.1 | 1659.3 | 1638.2 | 1617.1 | 1594.3 | 1578.3 | 1569.0 |
| 57.5° | 1889.7 | 1862.7 | 1833.1 | 1802.8 | 1785.0 | 1758.0 | 1747.9 | 1742.8 |
| 60°   | 2072.8 | 2048.4 | 2018.8 | 1991.0 | 1966.5 | 1935.3 | 1918.4 | 1911.6 |
| 62.5° | 2275.4 | 2241.6 | 2206.2 | 2171.6 | 2144.6 | 2121.8 | 2104.1 | 2092.3 |
| 65°   | 2461.9 | 2415.5 | 2379.2 | 2335.3 | 2305.8 | 2272.9 | 2250.9 | 2246.7 |
| 67.5° | 2601.2 | 2529.4 | 2466.1 | 2409.6 | 2364.0 | 2323.5 | 2295.7 | 2284.7 |
| 70°   | 2610.5 | 2511.7 | 2418.0 | 2334.5 | 2267.8 | 2221.4 | 2184.2 | 2169.9 |
| 72.5° | 2429.8 | 2307.5 | 2180.9 | 2099.0 | 2028.1 | 1964.0 | 1937.8 | 1931.9 |
| 75°   | 1976.6 | 1874.5 | 1769.0 | 1676.2 | 1627.2 | 1595.1 | 1573.2 | 1541.1 |
| 77.5° | 1373.2 | 1279.5 | 1222.9 | 1119.1 | 1100.6 | 1074.4 | 1052.5 | 1031.4 |
| 80°   | 768.9  | 687.0  | 623.7  | 558.7  | 519.1  | 497.1  | 474.3  | 461.7  |
| 82.5° | 345.2  | 283.6  | 225.3  | 174.7  | 144.3  | 113.9  | 85.2   | 90.3   |
| 85°   | 86.1   | 72.6   | 55.7   | 46.4   | 42.2   | 38.8   | 31.2   | 27.9   |
| 87.5° | 16.0   | 15.2   | 13.5   | 13.5   | 14.3   | 11.8   | 6.8    | 5.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)