

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: P194210

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-5WQ-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8452 lumens  
Efficiency: N/A  
Efficacy: 128.1 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): 66  
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

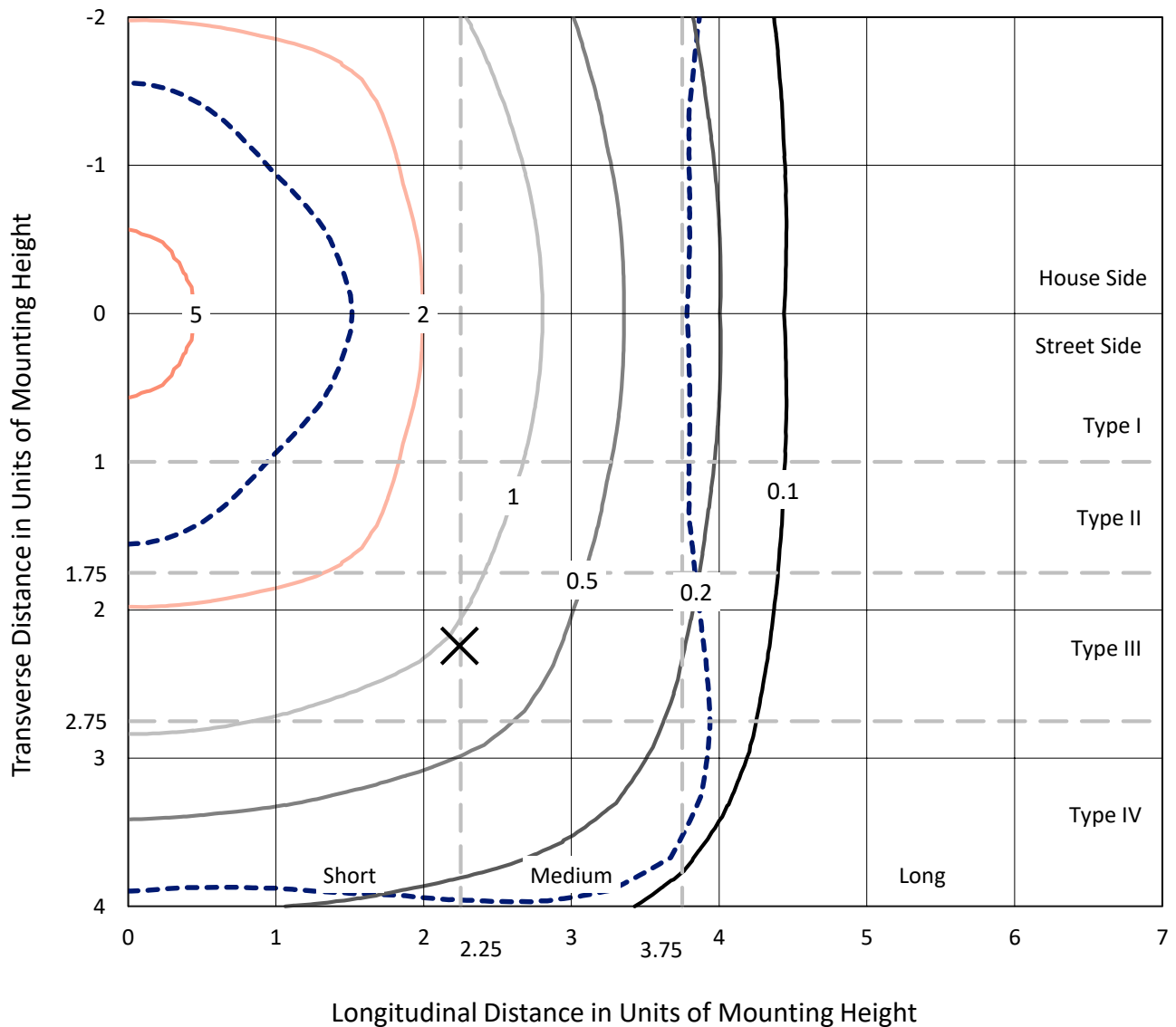


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

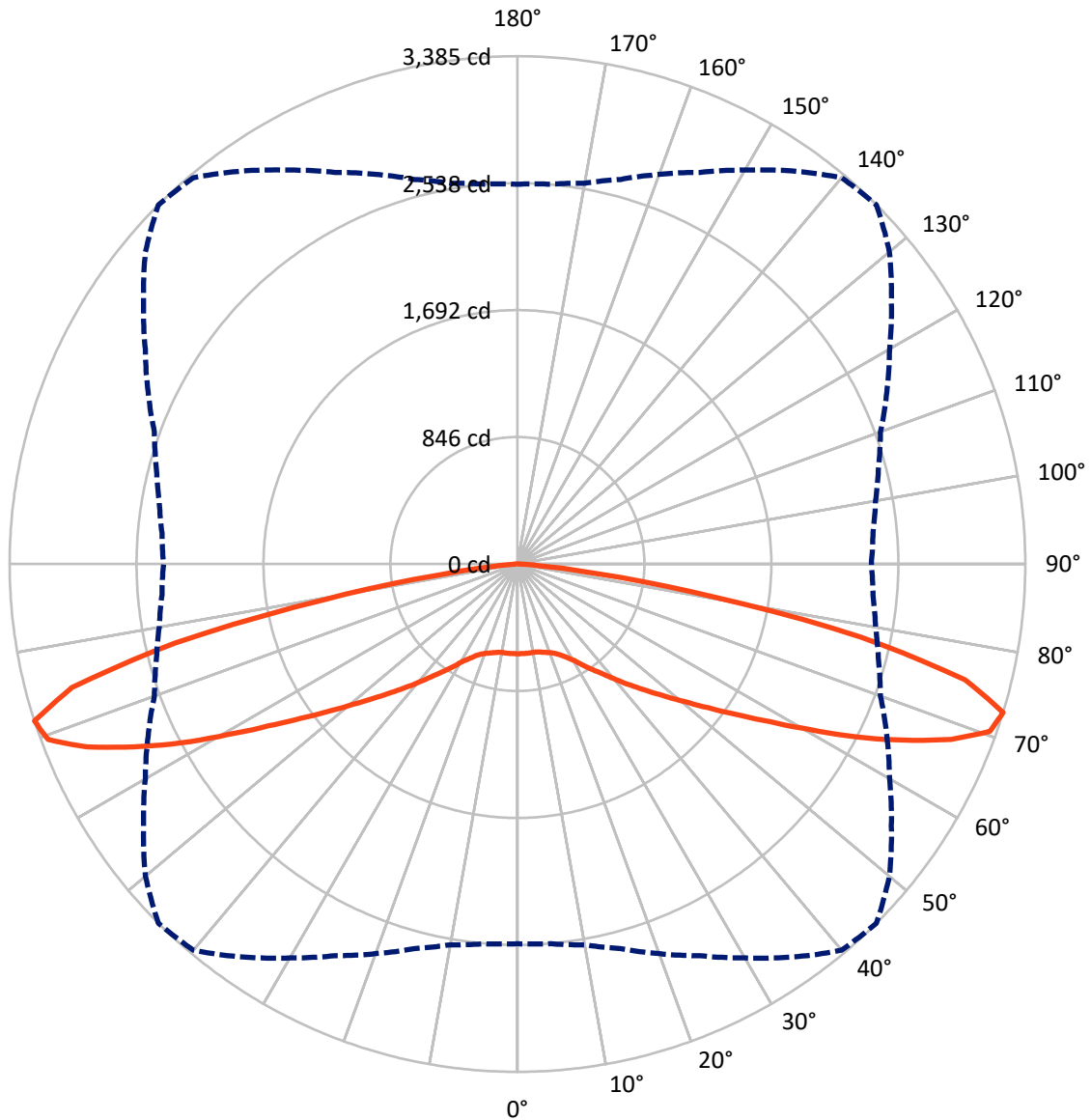


Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4226.0   | 0.0    | 4226.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4226.0   | 0.0    | 4226.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8452.0   | 0.0    | 8452.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.2   | 0.7       |
| 10°-20°   | 173.6  | 2.1       |
| 20°-30°   | 317.2  | 3.8       |
| 30°-40°   | 546.9  | 6.5       |
| 40°-50°   | 934.9  | 11.1      |
| 50°-60°   | 1515.4 | 17.9      |
| 60°-70°   | 2514.0 | 29.7      |
| 70°-80°   | 2214.3 | 26.2      |
| 80°-90°   | 178.5  | 2.1       |
| 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°    | 8452.0 | 100.0     |
| 0°-180°   | 8452.0 | 100.0     |



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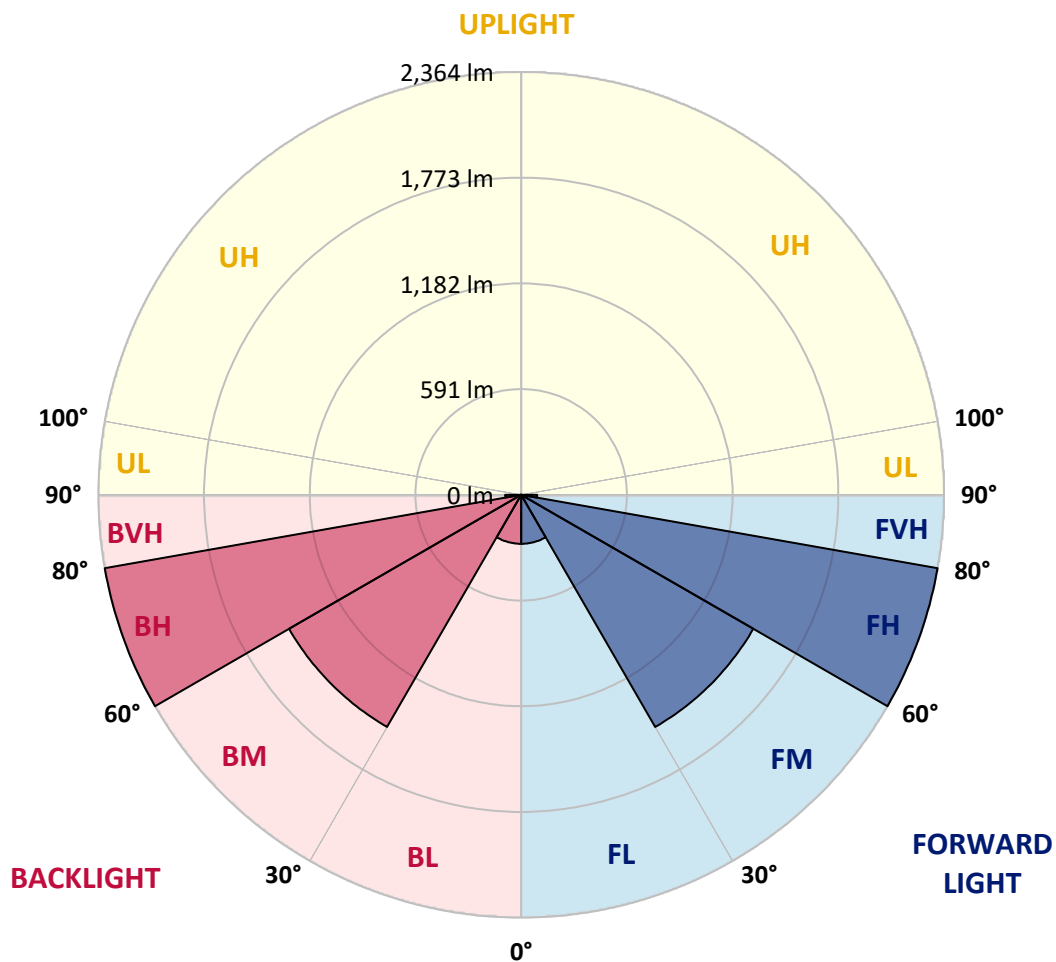
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 274.0  | 3.2       |                         |      |         |
| FM (30°-60°)   | 1498.6 | 17.7      |                         |      |         |
| FH (60°-80°)   | 2364.1 | 28.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 89.3   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 274.0  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 1498.6 | 17.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 2364.1 | 28.0      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 89.3   | 1.1       |                         |      | 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°    | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  |
| 2.5°  | 598.5  | 598.9  | 599.3  | 598.9  | 598.9  | 598.5  | 598.1  | 598.5  | 598.1  | 597.4  | 597.8  |
| 5°    | 600.5  | 601.2  | 601.2  | 600.5  | 600.9  | 600.5  | 599.7  | 600.1  | 599.3  | 598.1  | 598.1  |
| 7.5°  | 602.8  | 603.2  | 603.2  | 602.4  | 602.8  | 602.0  | 601.2  | 600.9  | 600.1  | 598.5  | 597.4  |
| 10°   | 606.3  | 606.7  | 606.3  | 605.5  | 605.5  | 604.3  | 602.4  | 601.6  | 600.1  | 597.8  | 596.6  |
| 12.5° | 610.2  | 610.6  | 610.2  | 609.4  | 609.0  | 607.1  | 605.5  | 604.3  | 603.2  | 601.2  | 599.3  |
| 15°   | 615.6  | 616.4  | 615.6  | 614.0  | 612.9  | 611.3  | 610.6  | 610.9  | 611.3  | 609.8  | 607.8  |
| 17.5° | 625.7  | 626.1  | 624.9  | 621.4  | 619.9  | 618.3  | 618.3  | 619.1  | 620.2  | 619.5  | 617.5  |
| 20°   | 644.3  | 643.1  | 640.4  | 636.1  | 634.2  | 631.5  | 631.1  | 631.5  | 631.5  | 631.1  | 629.5  |
| 22.5° | 667.5  | 666.8  | 663.3  | 657.8  | 655.1  | 653.6  | 651.3  | 649.3  | 648.9  | 647.8  | 646.2  |
| 25°   | 695.4  | 695.1  | 690.8  | 686.1  | 684.2  | 682.3  | 680.3  | 677.6  | 675.3  | 672.6  | 671.0  |
| 27.5° | 731.1  | 729.6  | 723.4  | 721.0  | 718.3  | 717.2  | 714.4  | 711.3  | 709.4  | 705.9  | 704.0  |
| 30°   | 770.3  | 770.3  | 765.2  | 764.4  | 764.4  | 761.7  | 758.6  | 753.2  | 749.7  | 746.2  | 745.1  |
| 32.5° | 809.4  | 809.8  | 804.8  | 806.3  | 807.5  | 809.4  | 810.2  | 808.3  | 805.9  | 805.5  | 803.2  |
| 35°   | 866.0  | 864.5  | 859.4  | 860.6  | 860.2  | 859.8  | 859.8  | 864.1  | 864.8  | 865.6  | 861.0  |
| 37.5° | 936.2  | 936.2  | 931.1  | 931.1  | 928.8  | 926.5  | 923.4  | 926.1  | 930.4  | 931.5  | 928.4  |
| 40°   | 1016.4 | 1019.1 | 1012.9 | 1012.5 | 1013.3 | 1006.0 | 1002.5 | 1006.7 | 1009.4 | 1014.1 | 1010.6 |
| 42.5° | 1111.0 | 1109.1 | 1102.9 | 1102.1 | 1097.8 | 1095.5 | 1092.4 | 1095.9 | 1100.2 | 1103.3 | 1104.4 |
| 45°   | 1201.7 | 1200.2 | 1193.2 | 1193.2 | 1188.9 | 1187.0 | 1188.5 | 1194.4 | 1196.3 | 1200.6 | 1204.8 |
| 47.5° | 1291.3 | 1289.3 | 1284.7 | 1286.6 | 1287.0 | 1290.5 | 1295.5 | 1301.0 | 1306.4 | 1312.2 | 1314.1 |
| 50°   | 1382.8 | 1383.1 | 1378.1 | 1382.8 | 1388.6 | 1398.3 | 1411.8 | 1420.7 | 1432.0 | 1439.3 | 1441.7 |
| 52.5° | 1466.1 | 1467.6 | 1473.1 | 1483.9 | 1495.6 | 1514.6 | 1537.8 | 1559.5 | 1578.1 | 1590.5 | 1589.8 |
| 55°   | 1566.1 | 1568.4 | 1581.6 | 1600.2 | 1619.2 | 1647.9 | 1682.4 | 1720.8 | 1751.8 | 1769.6 | 1758.4 |
| 57.5° | 1694.0 | 1699.1 | 1713.8 | 1739.0 | 1767.3 | 1804.5 | 1851.8 | 1909.6 | 1957.6 | 1981.7 | 1963.5 |
| 60°   | 1869.6 | 1872.7 | 1890.6 | 1918.5 | 1952.6 | 1998.7 | 2061.9 | 2139.4 | 2207.3 | 2239.1 | 2218.1 |
| 62.5° | 2101.1 | 2106.9 | 2121.2 | 2149.5 | 2184.4 | 2236.7 | 2313.9 | 2410.8 | 2495.3 | 2539.5 | 2492.2 |
| 65°   | 2377.5 | 2396.1 | 2408.1 | 2436.8 | 2469.3 | 2524.8 | 2605.4 | 2709.3 | 2800.0 | 2829.1 | 2774.4 |
| 67.5° | 2651.1 | 2667.4 | 2688.4 | 2721.3 | 2754.3 | 2816.7 | 2891.5 | 2992.3 | 3091.9 | 3118.3 | 3033.4 |
| 70°   | 2770.9 | 2780.2 | 2812.8 | 2857.8 | 2920.9 | 2994.6 | 3081.0 | 3194.2 | 3317.5 | 3339.2 | 3231.5 |
| 72.5° | 2531.0 | 2540.3 | 2576.7 | 2653.1 | 2763.2 | 2880.2 | 3031.0 | 3197.3 | 3360.2 | 3384.6 | 3236.1 |
| 75°   | 1914.2 | 1899.1 | 1953.0 | 2054.2 | 2202.6 | 2365.8 | 2576.7 | 2815.1 | 3050.4 | 3081.0 | 2903.9 |
| 77.5° | 989.3  | 987.3  | 1028.1 | 1153.6 | 1330.8 | 1516.5 | 1748.7 | 2018.1 | 2248.4 | 2341.4 | 2197.2 |
| 80°   | 278.7  | 281.8  | 301.2  | 363.6  | 467.1  | 601.2  | 782.7  | 1035.0 | 1223.4 | 1319.6 | 1238.9 |
| 82.5° | 109.3  | 117.8  | 125.2  | 136.8  | 150.4  | 170.2  | 227.2  | 338.0  | 453.6  | 541.9  | 443.9  |
| 85°   | 39.2   | 41.9   | 59.3   | 70.2   | 71.3   | 75.2   | 85.7   | 100.0  | 120.6  | 143.8  | 118.2  |
| 87.5° | 14.7   | 16.3   | 19.0   | 31.4   | 31.0   | 28.3   | 34.5   | 36.1   | 27.1   | 24.8   | 30.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  | 598.5  |
| 2.5°  | 597.0  | 597.4  | 597.4  | 597.8  | 598.1  | 598.1  | 598.9  | 598.9  |
| 5°    | 597.4  | 597.4  | 596.6  | 597.0  | 596.6  | 596.6  | 597.0  | 597.0  |
| 7.5°  | 596.6  | 596.2  | 595.4  | 595.0  | 594.3  | 594.3  | 594.3  | 594.3  |
| 10°   | 595.4  | 595.0  | 594.3  | 593.9  | 593.5  | 593.5  | 593.5  | 593.5  |
| 12.5° | 598.5  | 597.4  | 596.6  | 596.2  | 596.2  | 596.2  | 596.2  | 596.2  |
| 15°   | 606.7  | 604.0  | 602.0  | 602.0  | 602.4  | 603.2  | 603.2  | 604.0  |
| 17.5° | 616.8  | 613.7  | 611.7  | 610.2  | 610.9  | 612.1  | 612.9  | 613.7  |
| 20°   | 628.8  | 627.2  | 624.5  | 623.0  | 623.0  | 624.5  | 625.3  | 625.7  |
| 22.5° | 645.4  | 644.3  | 643.1  | 641.2  | 641.2  | 641.9  | 643.5  | 643.5  |
| 25°   | 670.2  | 669.5  | 668.7  | 667.1  | 666.8  | 666.8  | 667.5  | 668.3  |
| 27.5° | 701.3  | 701.6  | 700.9  | 700.5  | 699.3  | 698.9  | 700.1  | 699.7  |
| 30°   | 742.7  | 744.7  | 746.6  | 745.1  | 743.1  | 742.0  | 740.8  | 739.3  |
| 32.5° | 798.9  | 796.6  | 795.1  | 792.4  | 788.9  | 785.8  | 783.4  | 780.7  |
| 35°   | 852.1  | 848.2  | 846.6  | 849.0  | 848.6  | 846.6  | 843.9  | 841.6  |
| 37.5° | 917.2  | 916.4  | 917.2  | 921.4  | 920.7  | 922.6  | 917.2  | 916.8  |
| 40°   | 999.4  | 1000.1 | 1005.6 | 1010.6 | 1013.3 | 1016.0 | 1012.9 | 1009.8 |
| 42.5° | 1094.7 | 1094.3 | 1096.3 | 1103.3 | 1107.9 | 1111.0 | 1104.4 | 1103.6 |
| 45°   | 1195.5 | 1192.8 | 1194.4 | 1200.2 | 1204.8 | 1208.3 | 1200.9 | 1200.9 |
| 47.5° | 1306.4 | 1301.7 | 1296.7 | 1303.3 | 1306.0 | 1308.3 | 1302.5 | 1300.6 |
| 50°   | 1430.0 | 1420.4 | 1409.5 | 1412.2 | 1412.2 | 1411.4 | 1404.1 | 1403.7 |
| 52.5° | 1571.9 | 1554.1 | 1534.3 | 1527.0 | 1522.7 | 1518.0 | 1505.2 | 1499.0 |
| 55°   | 1735.1 | 1708.4 | 1677.4 | 1658.4 | 1648.3 | 1635.5 | 1614.2 | 1608.4 |
| 57.5° | 1925.8 | 1884.0 | 1830.5 | 1807.2 | 1784.7 | 1763.8 | 1740.2 | 1733.6 |
| 60°   | 2151.8 | 2090.2 | 2019.3 | 1976.2 | 1951.8 | 1931.7 | 1907.2 | 1906.1 |
| 62.5° | 2403.8 | 2306.5 | 2226.3 | 2187.5 | 2169.7 | 2151.8 | 2128.6 | 2131.7 |
| 65°   | 2660.1 | 2558.5 | 2483.3 | 2451.9 | 2435.2 | 2420.5 | 2397.2 | 2400.7 |
| 67.5° | 2912.8 | 2819.4 | 2736.8 | 2704.6 | 2686.0 | 2667.4 | 2646.5 | 2650.0 |
| 70°   | 3094.2 | 2978.3 | 2885.3 | 2814.0 | 2769.4 | 2719.0 | 2686.4 | 2678.3 |
| 72.5° | 3042.3 | 2863.6 | 2715.9 | 2574.4 | 2491.4 | 2424.0 | 2378.2 | 2358.5 |
| 75°   | 2632.9 | 2388.7 | 2198.8 | 2025.1 | 1927.4 | 1847.9 | 1790.2 | 1754.1 |
| 77.5° | 1955.3 | 1680.9 | 1456.4 | 1256.4 | 1098.2 | 992.0  | 917.2  | 868.7  |
| 80°   | 1070.3 | 814.1  | 595.0  | 418.3  | 307.4  | 255.5  | 225.6  | 211.3  |
| 82.5° | 333.4  | 215.1  | 158.5  | 136.8  | 127.1  | 121.7  | 112.8  | 98.5   |
| 85°   | 106.2  | 93.0   | 86.4   | 82.6   | 78.7   | 68.6   | 47.3   | 43.0   |
| 87.5° | 41.1   | 42.3   | 41.9   | 39.5   | 40.3   | 29.1   | 23.3   | 20.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)