

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: P299946

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299946  
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: GAA-AF-02-LED-U-5WQ-7060-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8420.9 lumens  
Efficiency: N/A  
Efficacy: 127.6 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): 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



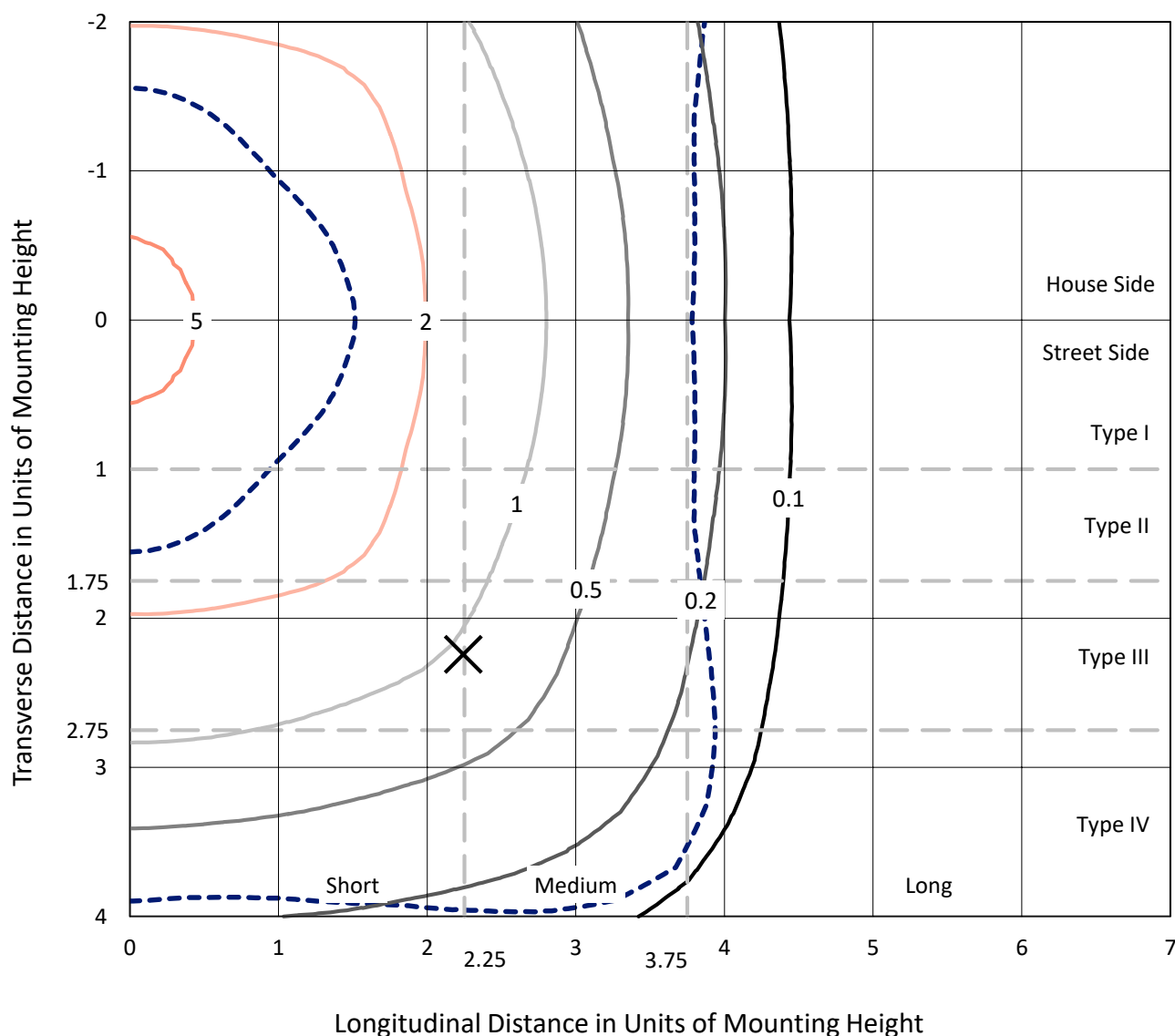
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



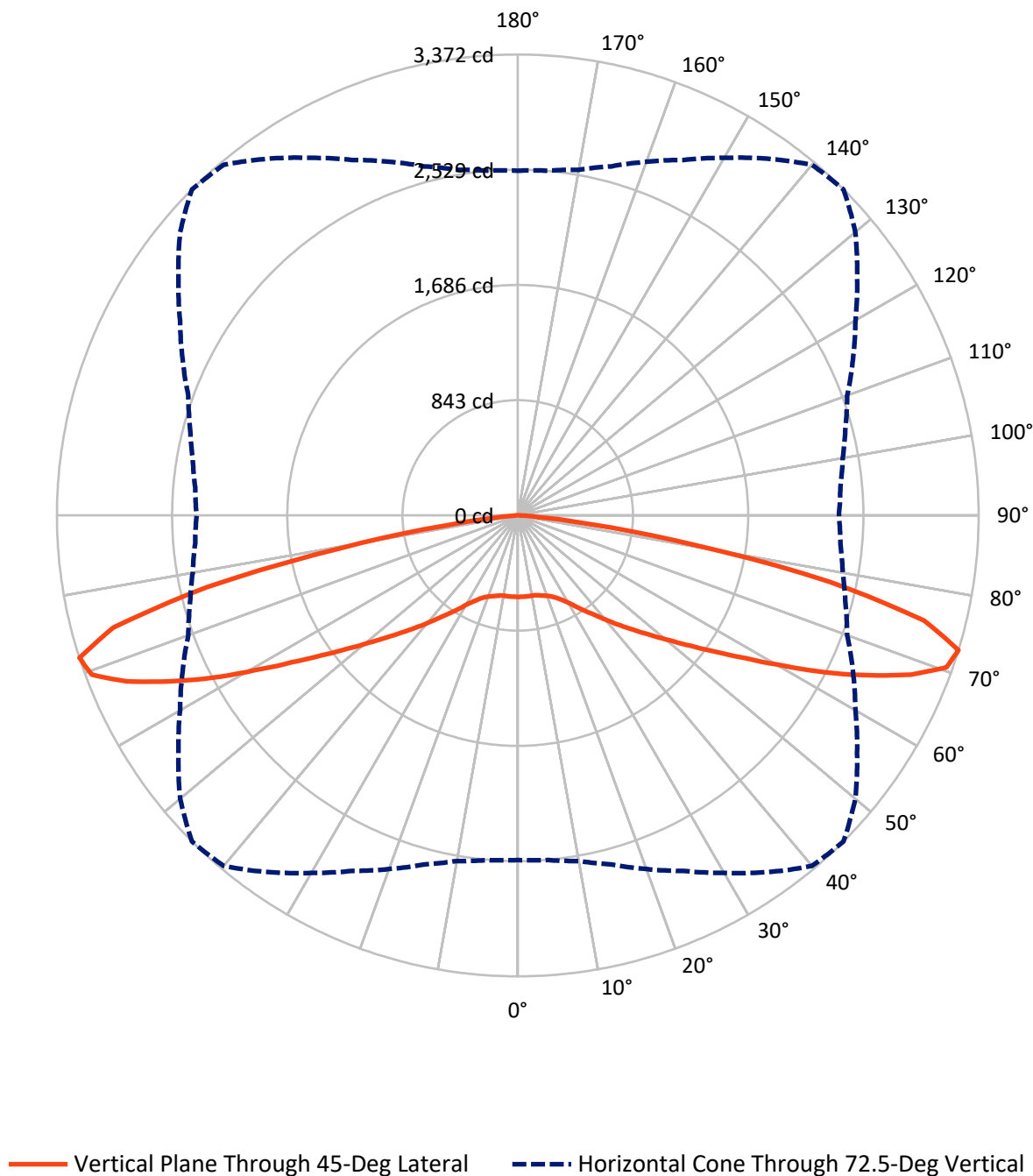
Based on 10 foot mounting height. Maximum calculated value = 6 fc

Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4210.4   | 0.0    | 4210.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4210.4   | 0.0    | 4210.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8420.9   | 0.0    | 8420.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.9   | 0.7       |
| 10°-20°   | 172.9  | 2.1       |
| 20°-30°   | 316.0  | 3.8       |
| 30°-40°   | 544.9  | 6.5       |
| 40°-50°   | 931.5  | 11.1      |
| 50°-60°   | 1509.8 | 17.9      |
| 60°-70°   | 2504.8 | 29.7      |
| 70°-80°   | 2206.1 | 26.2      |
| 80°-90°   | 177.9  | 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°    | 8420.9 | 100.0     |
| 0°-180°   | 8420.9 | 100.0     |

**Coefficient of Utilization**



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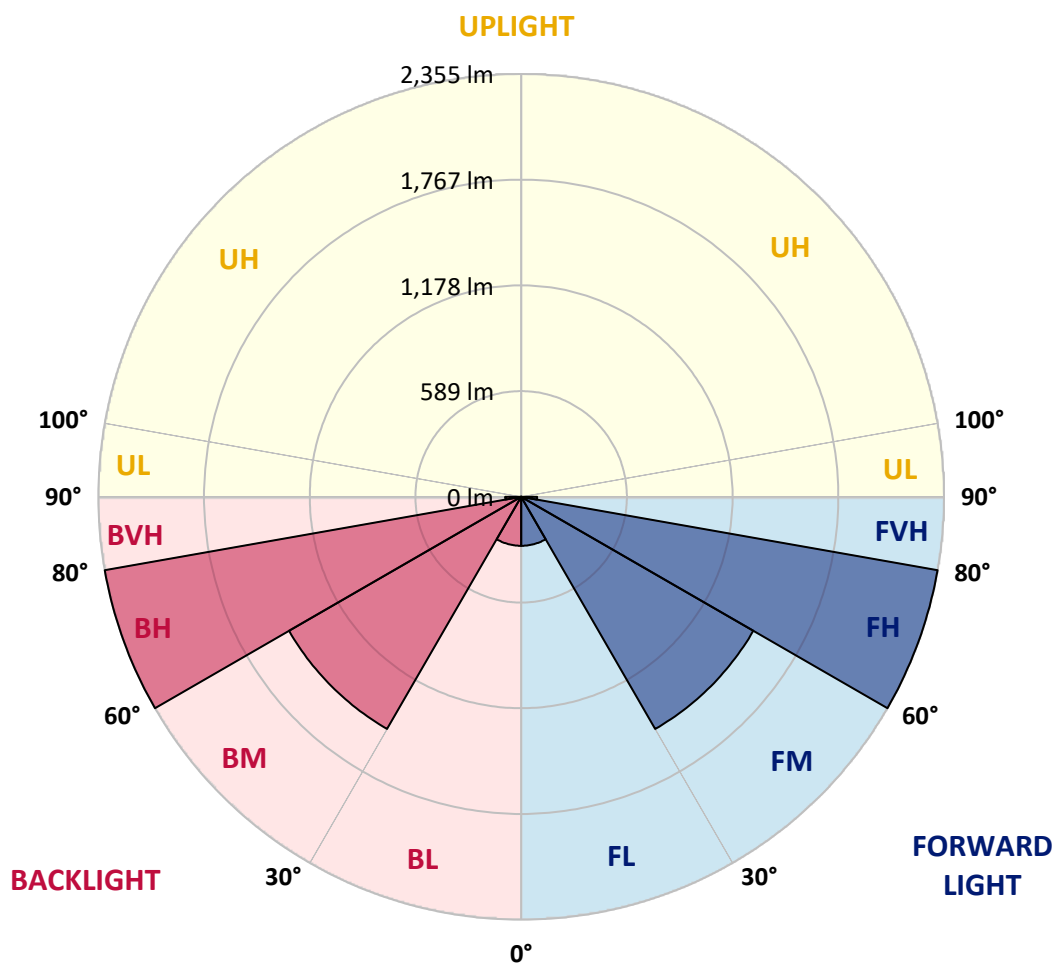
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 273.0  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 1493.1 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 2355.4 | 28.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 88.9   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 273.0  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1493.1 | 17.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2355.4 | 28.0      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 88.9   | 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°    | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  |
| 2.5°  | 596.3  | 596.7  | 597.1  | 596.7  | 596.7  | 596.3  | 595.9  | 596.3  | 595.9  | 595.2  | 595.6  |
| 5°    | 598.3  | 599.0  | 599.0  | 598.3  | 598.6  | 598.3  | 597.5  | 597.9  | 597.1  | 595.9  | 595.9  |
| 7.5°  | 600.6  | 601.0  | 601.0  | 600.2  | 600.6  | 599.8  | 599.0  | 598.6  | 597.9  | 596.3  | 595.2  |
| 10°   | 604.1  | 604.4  | 604.1  | 603.3  | 603.3  | 602.1  | 600.2  | 599.4  | 597.9  | 595.6  | 594.4  |
| 12.5° | 607.9  | 608.3  | 607.9  | 607.1  | 606.8  | 604.8  | 603.3  | 602.1  | 601.0  | 599.0  | 597.1  |
| 15°   | 613.3  | 614.1  | 613.3  | 611.8  | 610.6  | 609.1  | 608.3  | 608.7  | 609.1  | 607.5  | 605.6  |
| 17.5° | 623.4  | 623.7  | 622.6  | 619.1  | 617.6  | 616.0  | 616.0  | 616.8  | 618.0  | 617.2  | 615.3  |
| 20°   | 641.9  | 640.7  | 638.0  | 633.8  | 631.9  | 629.2  | 628.8  | 629.2  | 629.2  | 628.8  | 627.2  |
| 22.5° | 665.1  | 664.3  | 660.8  | 655.4  | 652.7  | 651.2  | 648.9  | 646.9  | 646.5  | 645.4  | 643.8  |
| 25°   | 692.9  | 692.5  | 688.2  | 683.6  | 681.7  | 679.8  | 677.8  | 675.1  | 672.8  | 670.1  | 668.6  |
| 27.5° | 728.4  | 726.9  | 720.7  | 718.4  | 715.7  | 714.5  | 711.8  | 708.7  | 706.8  | 703.3  | 701.4  |
| 30°   | 767.4  | 767.4  | 762.4  | 761.6  | 761.6  | 758.9  | 755.8  | 750.4  | 747.0  | 743.5  | 742.3  |
| 32.5° | 806.4  | 806.8  | 801.8  | 803.3  | 804.5  | 806.4  | 807.2  | 805.3  | 803.0  | 802.6  | 800.3  |
| 35°   | 862.8  | 861.3  | 856.3  | 857.4  | 857.0  | 856.6  | 856.6  | 860.9  | 861.7  | 862.4  | 857.8  |
| 37.5° | 932.7  | 932.7  | 927.7  | 927.7  | 925.4  | 923.1  | 920.0  | 922.7  | 926.9  | 928.1  | 925.0  |
| 40°   | 1012.7 | 1015.4 | 1009.2 | 1008.8 | 1009.6 | 1002.2 | 998.8  | 1003.0 | 1005.7 | 1010.4 | 1006.9 |
| 42.5° | 1106.9 | 1105.0 | 1098.8 | 1098.0 | 1093.8 | 1091.5 | 1088.4 | 1091.9 | 1096.1 | 1099.2 | 1100.3 |
| 45°   | 1197.3 | 1195.7 | 1188.8 | 1188.8 | 1184.5 | 1182.6 | 1184.2 | 1190.0 | 1191.9 | 1196.1 | 1200.4 |
| 47.5° | 1286.5 | 1284.6 | 1279.9 | 1281.9 | 1282.3 | 1285.7 | 1290.8 | 1296.2 | 1301.6 | 1307.4 | 1309.3 |
| 50°   | 1377.7 | 1378.0 | 1373.0 | 1377.7 | 1383.4 | 1393.1 | 1406.6 | 1415.5 | 1426.7 | 1434.0 | 1436.4 |
| 52.5° | 1460.7 | 1462.2 | 1467.6 | 1478.5 | 1490.0 | 1509.0 | 1532.1 | 1553.8 | 1572.3 | 1584.7 | 1583.9 |
| 55°   | 1560.3 | 1562.7 | 1575.8 | 1594.3 | 1613.3 | 1641.8 | 1676.2 | 1714.4 | 1745.3 | 1763.1 | 1751.9 |
| 57.5° | 1687.8 | 1692.8 | 1707.5 | 1732.6 | 1760.8 | 1797.9 | 1845.0 | 1902.5 | 1950.4 | 1974.4 | 1956.2 |
| 60°   | 1862.8 | 1865.8 | 1883.6 | 1911.4 | 1945.4 | 1991.4 | 2054.3 | 2131.6 | 2199.1 | 2230.8 | 2210.0 |
| 62.5° | 2093.3 | 2099.1 | 2113.4 | 2141.6 | 2176.4 | 2228.5 | 2305.4 | 2401.9 | 2486.1 | 2530.1 | 2483.0 |
| 65°   | 2368.7 | 2387.2 | 2399.2 | 2427.8 | 2460.2 | 2515.5 | 2595.8 | 2699.3 | 2789.7 | 2818.7 | 2764.2 |
| 67.5° | 2641.4 | 2657.6 | 2678.5 | 2711.3 | 2744.1 | 2806.3 | 2880.8 | 2981.2 | 3080.5 | 3106.8 | 3022.2 |
| 70°   | 2760.7 | 2770.0 | 2802.4 | 2847.2 | 2910.2 | 2983.6 | 3069.7 | 3182.5 | 3305.3 | 3326.9 | 3219.5 |
| 72.5° | 2521.6 | 2530.9 | 2567.2 | 2643.3 | 2753.0 | 2869.6 | 3019.9 | 3185.6 | 3347.8 | 3372.1 | 3224.2 |
| 75°   | 1907.2 | 1892.1 | 1945.8 | 2046.6 | 2194.5 | 2357.1 | 2567.2 | 2804.7 | 3039.2 | 3069.7 | 2893.2 |
| 77.5° | 985.6  | 983.7  | 1024.3 | 1149.4 | 1325.9 | 1510.9 | 1742.2 | 2010.7 | 2240.1 | 2332.8 | 2189.1 |
| 80°   | 277.7  | 280.8  | 300.1  | 362.3  | 465.4  | 599.0  | 779.8  | 1031.2 | 1218.9 | 1314.7 | 1234.4 |
| 82.5° | 108.9  | 117.4  | 124.7  | 136.3  | 149.9  | 169.6  | 226.3  | 336.8  | 451.9  | 539.9  | 442.2  |
| 85°   | 39.0   | 41.7   | 59.1   | 69.9   | 71.1   | 74.9   | 85.4   | 99.6   | 120.1  | 143.3  | 117.8  |
| 87.5° | 14.7   | 16.2   | 18.9   | 31.3   | 30.9   | 28.2   | 34.4   | 35.9   | 27.0   | 24.7   | 30.5   |
| 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°    | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  | 596.3  |
| 2.5°  | 594.8  | 595.2  | 595.2  | 595.6  | 595.9  | 595.9  | 596.7  | 596.7  |
| 5°    | 595.2  | 595.2  | 594.4  | 594.8  | 594.4  | 594.4  | 594.8  | 594.8  |
| 7.5°  | 594.4  | 594.0  | 593.2  | 592.9  | 592.1  | 592.1  | 592.1  | 592.1  |
| 10°   | 593.2  | 592.9  | 592.1  | 591.7  | 591.3  | 591.3  | 591.3  | 591.3  |
| 12.5° | 596.3  | 595.2  | 594.4  | 594.0  | 594.0  | 594.0  | 594.0  | 594.0  |
| 15°   | 604.4  | 601.7  | 599.8  | 599.8  | 600.2  | 601.0  | 601.0  | 601.7  |
| 17.5° | 614.5  | 611.4  | 609.5  | 607.9  | 608.7  | 609.8  | 610.6  | 611.4  |
| 20°   | 626.5  | 624.9  | 622.2  | 620.7  | 620.7  | 622.2  | 623.0  | 623.4  |
| 22.5° | 643.1  | 641.9  | 640.7  | 638.8  | 638.8  | 639.6  | 641.1  | 641.1  |
| 25°   | 667.8  | 667.0  | 666.2  | 664.7  | 664.3  | 664.3  | 665.1  | 665.8  |
| 27.5° | 698.7  | 699.1  | 698.3  | 697.9  | 696.7  | 696.4  | 697.5  | 697.1  |
| 30°   | 740.0  | 741.9  | 743.9  | 742.3  | 740.4  | 739.2  | 738.1  | 736.5  |
| 32.5° | 796.0  | 793.7  | 792.1  | 789.4  | 786.0  | 782.9  | 780.6  | 777.9  |
| 35°   | 848.9  | 845.1  | 843.5  | 845.8  | 845.4  | 843.5  | 840.8  | 838.5  |
| 37.5° | 913.8  | 913.0  | 913.8  | 918.1  | 917.3  | 919.2  | 913.8  | 913.4  |
| 40°   | 995.7  | 996.5  | 1001.9 | 1006.9 | 1009.6 | 1012.3 | 1009.2 | 1006.1 |
| 42.5° | 1090.7 | 1090.3 | 1092.2 | 1099.2 | 1103.8 | 1106.9 | 1100.3 | 1099.6 |
| 45°   | 1191.1 | 1188.4 | 1190.0 | 1195.7 | 1200.4 | 1203.9 | 1196.5 | 1196.5 |
| 47.5° | 1301.6 | 1296.9 | 1291.9 | 1298.5 | 1301.2 | 1303.5 | 1297.7 | 1295.8 |
| 50°   | 1424.8 | 1415.1 | 1404.3 | 1407.0 | 1407.0 | 1406.2 | 1398.9 | 1398.5 |
| 52.5° | 1566.1 | 1548.4 | 1528.7 | 1521.3 | 1517.1 | 1512.4 | 1499.7 | 1493.5 |
| 55°   | 1728.7 | 1702.1 | 1671.2 | 1652.3 | 1642.2 | 1629.5 | 1608.2 | 1602.4 |
| 57.5° | 1918.8 | 1877.0 | 1823.7 | 1800.6 | 1778.2 | 1757.3 | 1733.8 | 1727.2 |
| 60°   | 2143.9 | 2082.5 | 2011.8 | 1969.0 | 1944.6 | 1924.5 | 1900.2 | 1899.1 |
| 62.5° | 2395.0 | 2298.0 | 2218.1 | 2179.5 | 2161.7 | 2143.9 | 2120.7 | 2123.8 |
| 65°   | 2650.3 | 2549.1 | 2474.1 | 2442.9 | 2426.2 | 2411.6 | 2388.4 | 2391.9 |
| 67.5° | 2902.1 | 2809.0 | 2726.7 | 2694.7 | 2676.1 | 2657.6 | 2636.7 | 2640.2 |
| 70°   | 3082.8 | 2967.3 | 2874.7 | 2803.6 | 2759.2 | 2709.0 | 2676.5 | 2668.4 |
| 72.5° | 3031.1 | 2853.0 | 2705.9 | 2564.9 | 2482.3 | 2415.0 | 2369.5 | 2349.8 |
| 75°   | 2623.2 | 2379.9 | 2190.7 | 2017.6 | 1920.3 | 1841.1 | 1783.6 | 1747.7 |
| 77.5° | 1948.1 | 1674.7 | 1451.0 | 1251.7 | 1094.2 | 988.3  | 913.8  | 865.5  |
| 80°   | 1066.4 | 811.1  | 592.9  | 416.7  | 306.3  | 254.5  | 224.8  | 210.5  |
| 82.5° | 332.2  | 214.4  | 158.0  | 136.3  | 126.7  | 121.3  | 112.4  | 98.1   |
| 85°   | 105.8  | 92.7   | 86.1   | 82.3   | 78.4   | 68.4   | 47.1   | 42.9   |
| 87.5° | 40.9   | 42.1   | 41.7   | 39.4   | 40.2   | 29.0   | 23.2   | 20.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)