

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: P200061

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-800**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAP-AF-01-LED-U-5MQ-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5519.8 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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

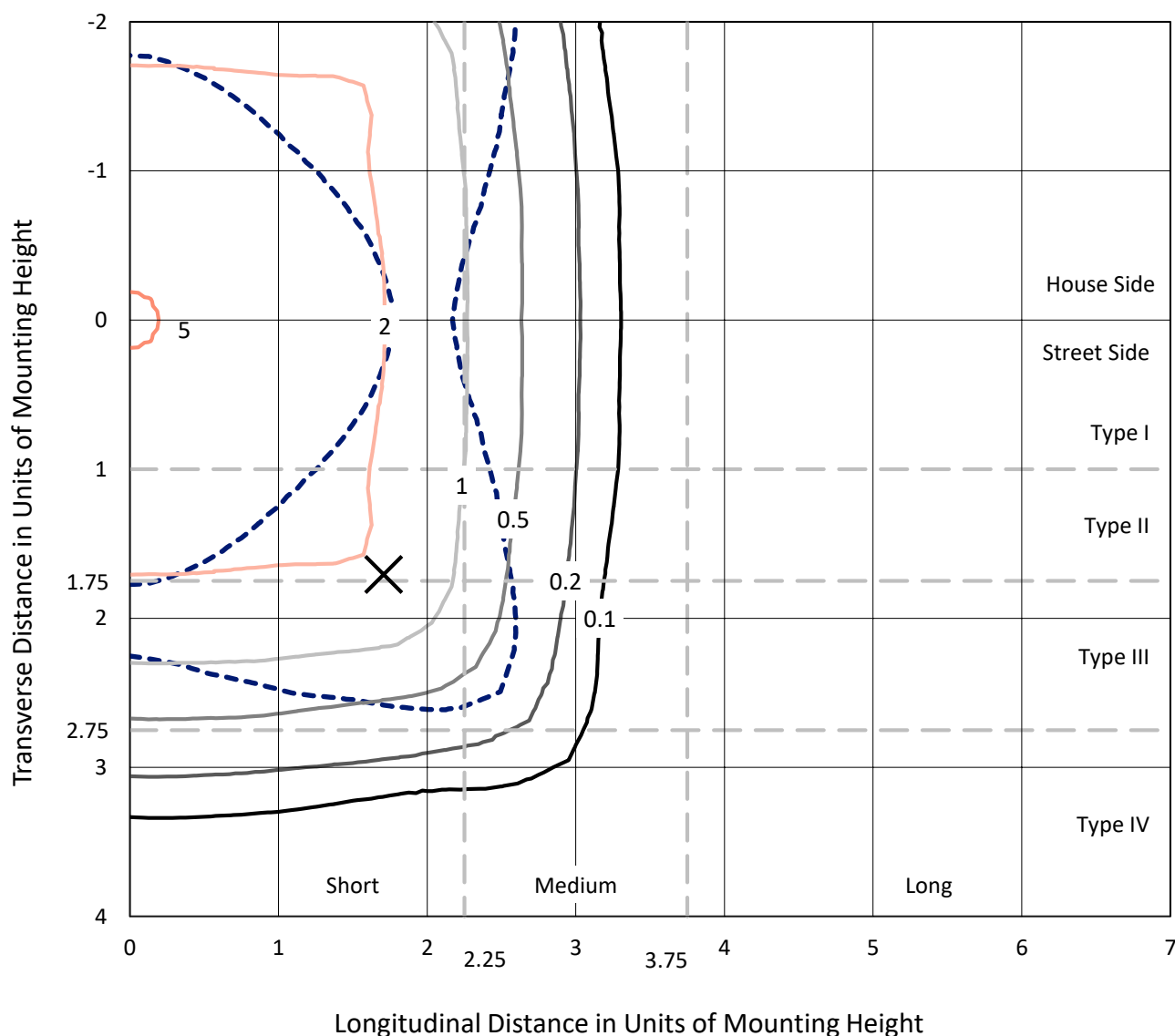


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

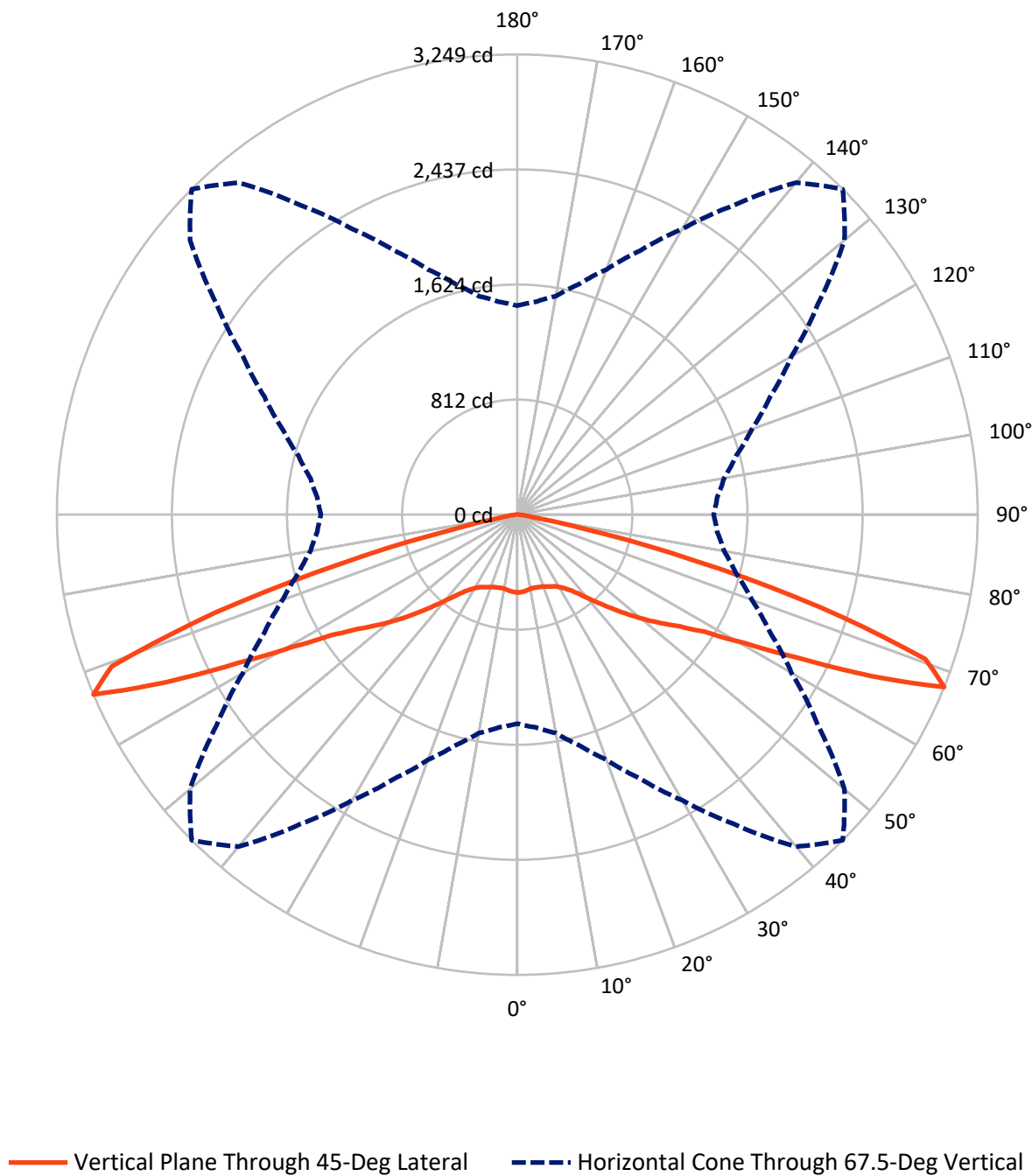


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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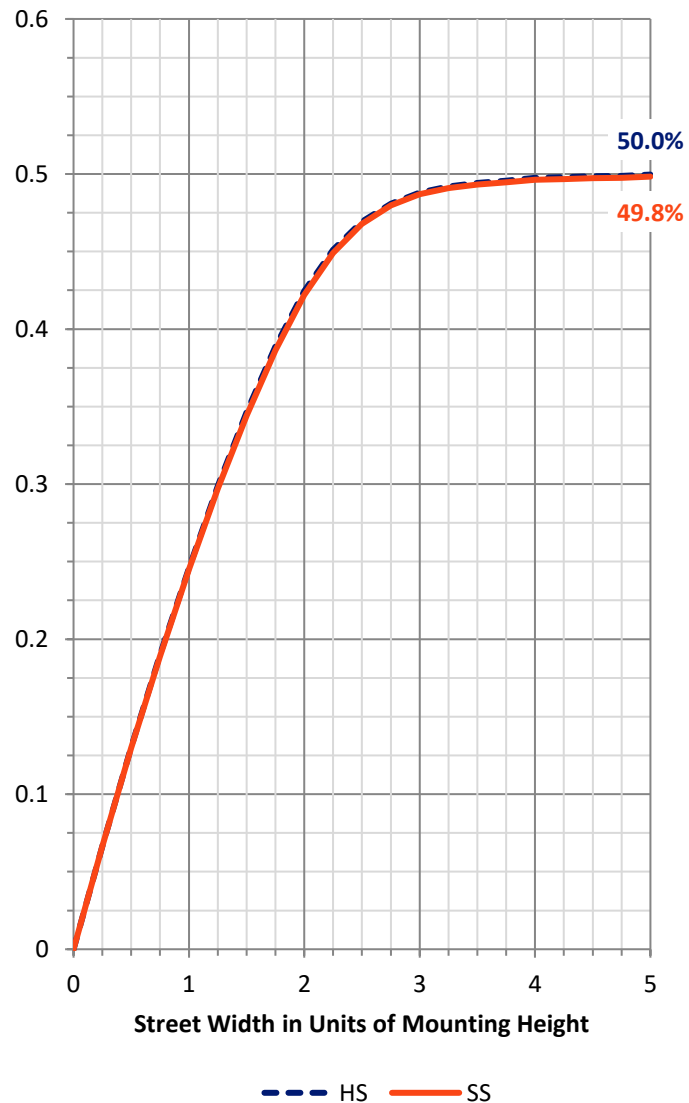
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2759.9   | 0.0    | 2759.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2759.9   | 0.0    | 2759.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5519.8   | 0.0    | 5519.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.5   | 0.9       |
| 10°-20°   | 149.4  | 2.7       |
| 20°-30°   | 254.0  | 4.6       |
| 30°-40°   | 415.2  | 7.5       |
| 40°-50°   | 741.2  | 13.4      |
| 50°-60°   | 1249.6 | 22.6      |
| 60°-70°   | 1939.2 | 35.1      |
| 70°-80°   | 681.4  | 12.3      |
| 80°-90°   | 38.5   | 0.7       |
| 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°    | 5519.8 | 100.0     |
| 0°-180°   | 5519.8 | 100.0     |

**Coefficient of Utilization**



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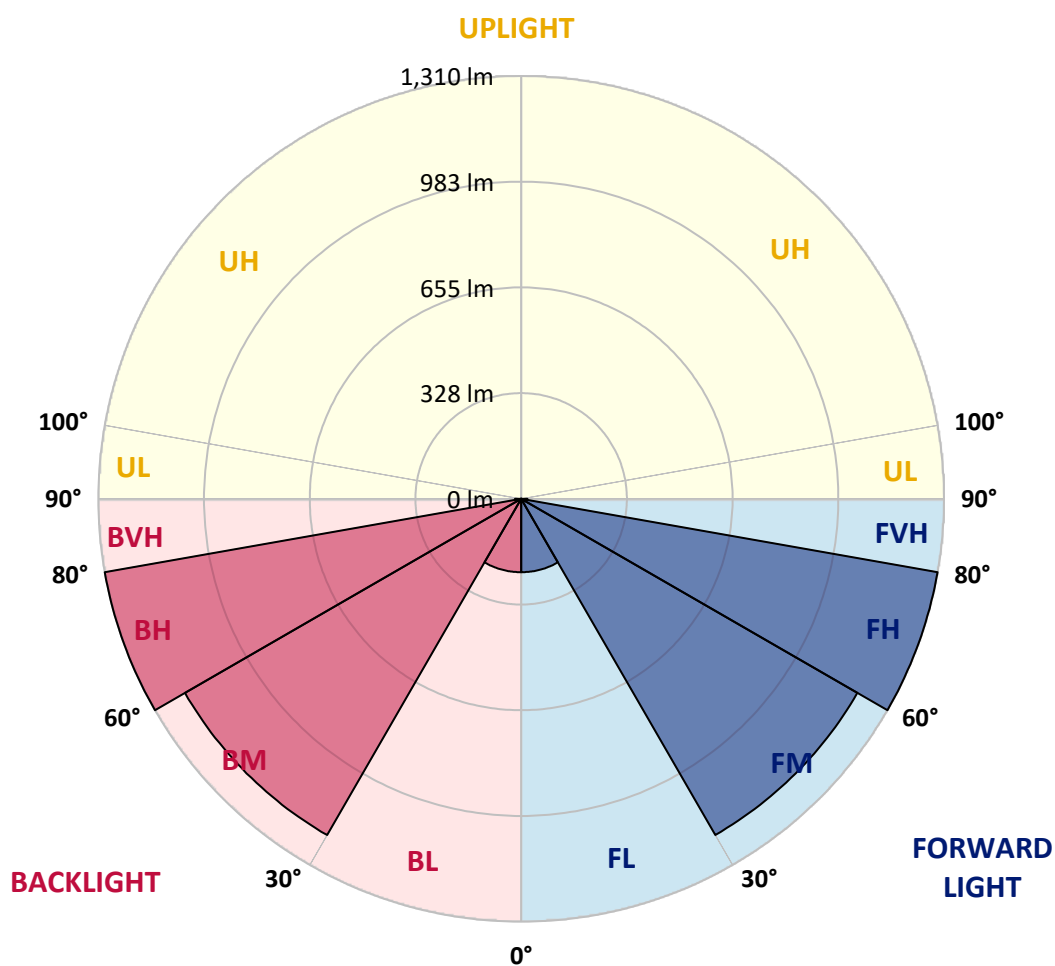
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 227.4  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1203.0 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1310.3 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 19.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 227.4  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1203.0 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1310.3 | 23.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 19.3   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  |
| 2.5°  | 548.0  | 548.5  | 548.5  | 548.5  | 548.3  | 548.3  | 547.8  | 548.3  | 548.0  | 547.3  | 547.6  |
| 5°    | 543.5  | 544.0  | 544.0  | 543.7  | 544.5  | 544.2  | 543.5  | 544.0  | 543.7  | 543.2  | 543.5  |
| 7.5°  | 536.8  | 537.7  | 537.7  | 537.4  | 538.2  | 537.9  | 537.4  | 537.7  | 537.7  | 536.8  | 536.8  |
| 10°   | 529.5  | 530.0  | 530.0  | 529.8  | 531.0  | 531.0  | 530.8  | 531.5  | 531.8  | 531.0  | 530.5  |
| 12.5° | 522.6  | 523.4  | 523.4  | 524.5  | 525.7  | 526.2  | 527.4  | 528.5  | 529.5  | 529.3  | 528.3  |
| 15°   | 518.6  | 519.1  | 520.2  | 521.4  | 523.4  | 525.2  | 527.2  | 529.5  | 531.5  | 532.0  | 530.5  |
| 17.5° | 516.1  | 516.8  | 518.3  | 520.2  | 522.9  | 526.0  | 529.0  | 532.0  | 534.8  | 535.8  | 534.1  |
| 20°   | 515.3  | 515.8  | 517.3  | 520.4  | 524.2  | 528.8  | 533.1  | 536.6  | 540.4  | 541.7  | 540.4  |
| 22.5° | 516.8  | 517.8  | 519.7  | 523.1  | 528.3  | 534.1  | 539.2  | 544.0  | 548.8  | 551.1  | 549.3  |
| 25°   | 523.6  | 524.7  | 527.0  | 531.5  | 537.2  | 543.2  | 549.0  | 554.6  | 558.9  | 561.3  | 560.0  |
| 27.5° | 536.3  | 537.7  | 540.4  | 545.0  | 551.1  | 557.7  | 564.1  | 568.6  | 572.1  | 573.0  | 571.4  |
| 30°   | 555.4  | 558.2  | 561.5  | 566.6  | 573.7  | 579.3  | 585.6  | 589.6  | 594.0  | 594.0  | 592.7  |
| 32.5° | 585.1  | 587.9  | 591.5  | 596.3  | 601.9  | 607.9  | 613.6  | 617.0  | 621.6  | 622.0  | 618.9  |
| 35°   | 629.5  | 630.8  | 633.8  | 636.9  | 642.0  | 647.3  | 652.1  | 654.4  | 658.2  | 658.5  | 655.7  |
| 37.5° | 688.1  | 688.4  | 690.5  | 691.5  | 696.0  | 701.8  | 706.4  | 708.0  | 711.6  | 711.1  | 708.2  |
| 40°   | 756.5  | 757.7  | 758.5  | 760.1  | 764.9  | 770.4  | 775.2  | 776.0  | 779.8  | 779.1  | 775.5  |
| 42.5° | 835.4  | 835.9  | 840.3  | 842.5  | 847.1  | 849.9  | 856.0  | 856.7  | 861.3  | 859.3  | 855.2  |
| 45°   | 924.0  | 928.5  | 932.6  | 937.2  | 942.0  | 945.3  | 950.1  | 949.1  | 952.2  | 949.1  | 946.8  |
| 47.5° | 1017.1 | 1020.5 | 1029.6 | 1036.7 | 1044.5 | 1047.4 | 1054.3 | 1051.2 | 1054.3 | 1049.9 | 1049.1 |
| 50°   | 1119.7 | 1125.6 | 1133.4 | 1141.5 | 1149.9 | 1154.5 | 1163.4 | 1159.5 | 1163.6 | 1159.5 | 1157.3 |
| 52.5° | 1220.7 | 1222.2 | 1239.5 | 1251.5 | 1263.1 | 1268.5 | 1273.8 | 1272.0 | 1272.2 | 1272.0 | 1269.7 |
| 55°   | 1316.6 | 1320.2 | 1337.5 | 1353.8 | 1374.0 | 1389.1 | 1398.2 | 1397.1 | 1394.9 | 1392.5 | 1388.8 |
| 57.5° | 1424.8 | 1428.3 | 1448.2 | 1468.2 | 1491.4 | 1512.6 | 1531.2 | 1550.2 | 1557.5 | 1559.6 | 1551.2 |
| 60°   | 1571.0 | 1570.7 | 1597.1 | 1621.6 | 1654.5 | 1686.2 | 1726.8 | 1768.3 | 1815.7 | 1837.8 | 1808.6 |
| 62.5° | 1719.8 | 1725.9 | 1764.0 | 1807.1 | 1875.2 | 1941.4 | 2016.2 | 2089.9 | 2165.0 | 2226.1 | 2161.2 |
| 65°   | 1702.0 | 1725.4 | 1782.0 | 1879.7 | 2005.4 | 2154.6 | 2316.1 | 2486.9 | 2641.3 | 2747.3 | 2628.3 |
| 67.5° | 1475.1 | 1508.3 | 1565.9 | 1684.8 | 1841.9 | 2057.2 | 2328.2 | 2666.1 | 3058.8 | 3248.7 | 3013.4 |
| 70°   | 1069.2 | 1106.7 | 1167.2 | 1283.2 | 1438.8 | 1643.4 | 1937.9 | 2343.5 | 2863.3 | 3054.7 | 2795.5 |
| 72.5° | 532.0  | 552.4  | 589.6  | 663.6  | 781.3  | 947.4  | 1214.3 | 1604.3 | 2064.2 | 2239.9 | 2003.0 |
| 75°   | 180.8  | 190.2  | 196.5  | 220.5  | 257.9  | 323.2  | 455.9  | 701.3  | 1069.9 | 1282.7 | 1054.8 |
| 77.5° | 104.3  | 104.5  | 108.9  | 113.2  | 119.6  | 126.6  | 144.4  | 189.7  | 328.0  | 465.7  | 339.4  |
| 80°   | 67.5   | 67.3   | 70.8   | 74.2   | 78.5   | 82.0   | 83.0   | 87.9   | 101.3  | 120.1  | 107.4  |
| 82.5° | 35.0   | 39.4   | 47.3   | 51.6   | 59.6   | 61.2   | 59.1   | 57.4   | 60.7   | 62.9   | 64.4   |
| 85°   | 19.3   | 16.8   | 25.2   | 32.5   | 36.0   | 36.5   | 36.5   | 34.5   | 35.8   | 35.0   | 38.1   |
| 87.5° | 8.9    | 8.1    | 9.9    | 16.0   | 17.0   | 14.4   | 15.2   | 13.5   | 9.6    | 9.4    | 10.6   |
| 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°    | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  | 550.0  |
| 2.5°  | 547.6  | 547.8  | 547.8  | 548.5  | 548.8  | 549.3  | 549.8  | 550.0  |
| 5°    | 543.2  | 544.0  | 543.5  | 544.2  | 544.2  | 544.7  | 544.7  | 545.0  |
| 7.5°  | 536.8  | 537.7  | 537.7  | 537.7  | 537.4  | 538.2  | 538.2  | 538.2  |
| 10°   | 530.3  | 530.8  | 530.5  | 530.0  | 529.5  | 530.3  | 530.0  | 529.8  |
| 12.5° | 528.3  | 527.0  | 526.0  | 525.5  | 524.5  | 524.7  | 524.0  | 524.0  |
| 15°   | 529.5  | 527.2  | 525.5  | 524.7  | 523.6  | 523.1  | 522.6  | 522.9  |
| 17.5° | 532.9  | 530.0  | 527.7  | 526.5  | 525.2  | 524.5  | 523.4  | 523.6  |
| 20°   | 538.7  | 535.3  | 532.0  | 529.5  | 527.2  | 526.0  | 525.2  | 525.0  |
| 22.5° | 547.3  | 542.5  | 537.7  | 533.9  | 530.8  | 529.0  | 528.3  | 527.7  |
| 25°   | 557.2  | 551.9  | 546.3  | 542.0  | 538.9  | 536.6  | 535.1  | 535.1  |
| 27.5° | 569.6  | 565.3  | 560.3  | 555.2  | 552.4  | 550.0  | 549.0  | 548.5  |
| 30°   | 590.4  | 586.4  | 582.3  | 577.5  | 574.0  | 571.6  | 569.9  | 568.4  |
| 32.5° | 617.0  | 613.8  | 610.5  | 606.9  | 603.6  | 600.6  | 597.8  | 596.5  |
| 35°   | 654.7  | 652.1  | 649.9  | 645.8  | 644.5  | 642.7  | 641.2  | 640.0  |
| 37.5° | 706.4  | 705.4  | 705.4  | 701.1  | 700.1  | 699.3  | 697.9  | 698.1  |
| 40°   | 774.5  | 775.5  | 774.2  | 772.7  | 771.9  | 769.9  | 769.9  | 771.7  |
| 42.5° | 855.0  | 855.7  | 858.5  | 856.0  | 858.8  | 856.2  | 854.7  | 856.0  |
| 45°   | 948.4  | 951.1  | 956.8  | 954.2  | 955.9  | 951.7  | 946.3  | 946.5  |
| 47.5° | 1053.2 | 1055.7 | 1058.0 | 1056.2 | 1056.5 | 1049.3 | 1042.3 | 1040.5 |
| 50°   | 1162.1 | 1163.1 | 1164.3 | 1161.9 | 1162.4 | 1154.5 | 1146.3 | 1146.6 |
| 52.5° | 1269.7 | 1274.5 | 1279.6 | 1272.8 | 1271.2 | 1262.3 | 1251.0 | 1246.4 |
| 55°   | 1392.8 | 1399.7 | 1393.9 | 1381.9 | 1369.9 | 1358.1 | 1343.0 | 1340.6 |
| 57.5° | 1544.7 | 1533.0 | 1514.7 | 1492.1 | 1475.6 | 1458.8 | 1443.6 | 1437.2 |
| 60°   | 1755.8 | 1711.9 | 1678.9 | 1645.4 | 1624.3 | 1603.8 | 1583.7 | 1580.7 |
| 62.5° | 2054.4 | 1978.5 | 1912.7 | 1843.4 | 1786.8 | 1742.6 | 1707.3 | 1697.5 |
| 65°   | 2428.5 | 2249.1 | 2093.5 | 1948.2 | 1822.1 | 1726.8 | 1667.0 | 1640.6 |
| 67.5° | 2589.4 | 2235.0 | 1968.3 | 1762.1 | 1597.1 | 1481.9 | 1417.2 | 1385.0 |
| 70°   | 2275.5 | 1853.6 | 1563.4 | 1357.0 | 1206.8 | 1083.9 | 1025.3 | 990.7  |
| 72.5° | 1565.4 | 1179.1 | 932.3  | 761.0  | 641.0  | 538.2  | 497.6  | 494.5  |
| 75°   | 702.9  | 465.5  | 320.9  | 247.2  | 208.2  | 181.0  | 172.6  | 166.2  |
| 77.5° | 196.7  | 145.5  | 129.7  | 121.3  | 113.2  | 103.8  | 100.2  | 101.1  |
| 80°   | 95.7   | 90.3   | 86.8   | 81.5   | 74.2   | 66.3   | 62.7   | 64.2   |
| 82.5° | 63.4   | 62.7   | 65.0   | 61.2   | 50.5   | 42.9   | 36.0   | 33.0   |
| 85°   | 38.6   | 39.1   | 39.9   | 40.1   | 34.1   | 23.8   | 16.3   | 18.3   |
| 87.5° | 15.2   | 17.5   | 19.0   | 19.8   | 18.5   | 11.5   | 9.1    | 9.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)