

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: P199903

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-7030**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P199903  
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-7030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6458.3 lumens  
Efficiency: N/A  
Efficacy: 109.5 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): 59  
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

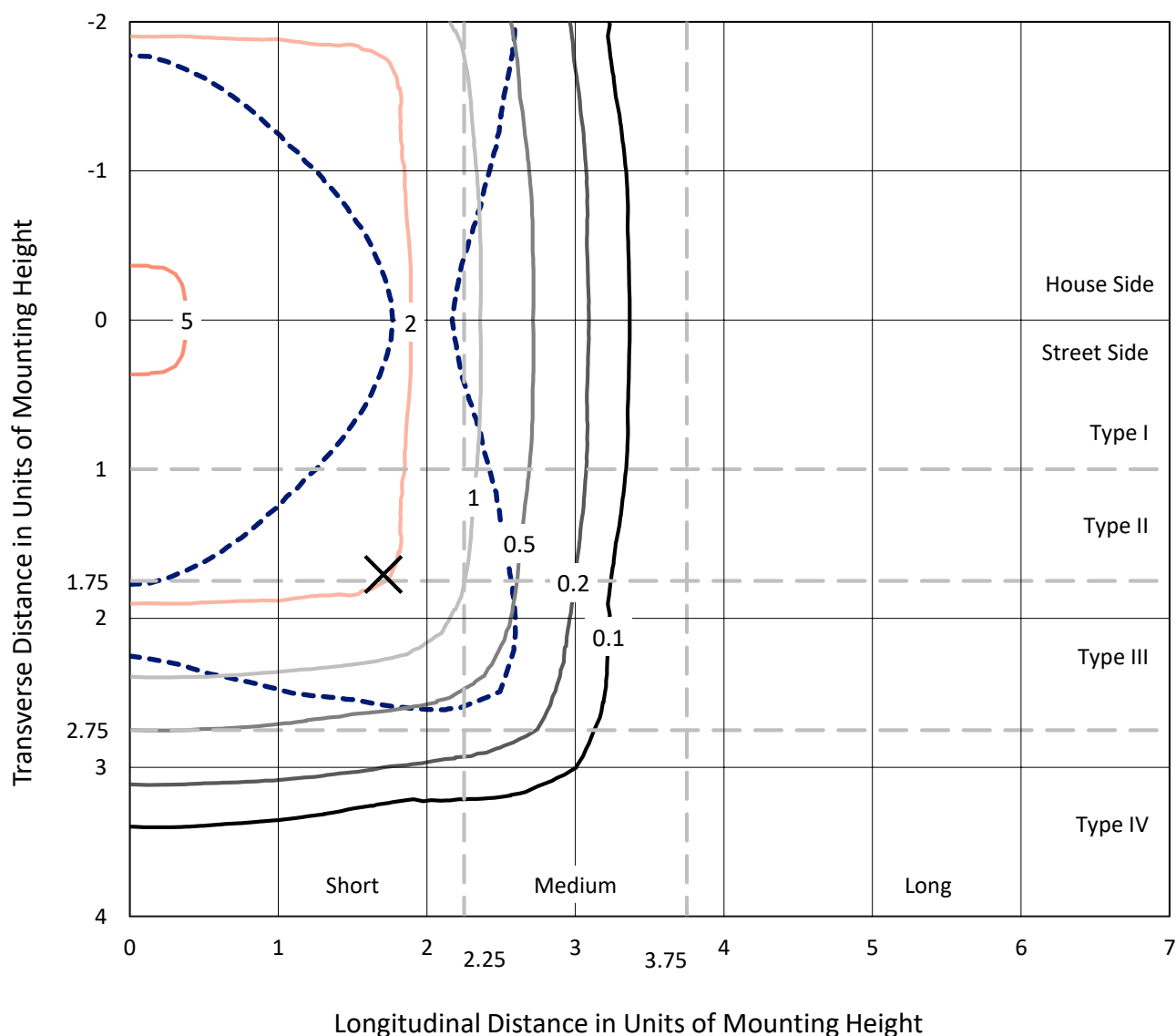


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

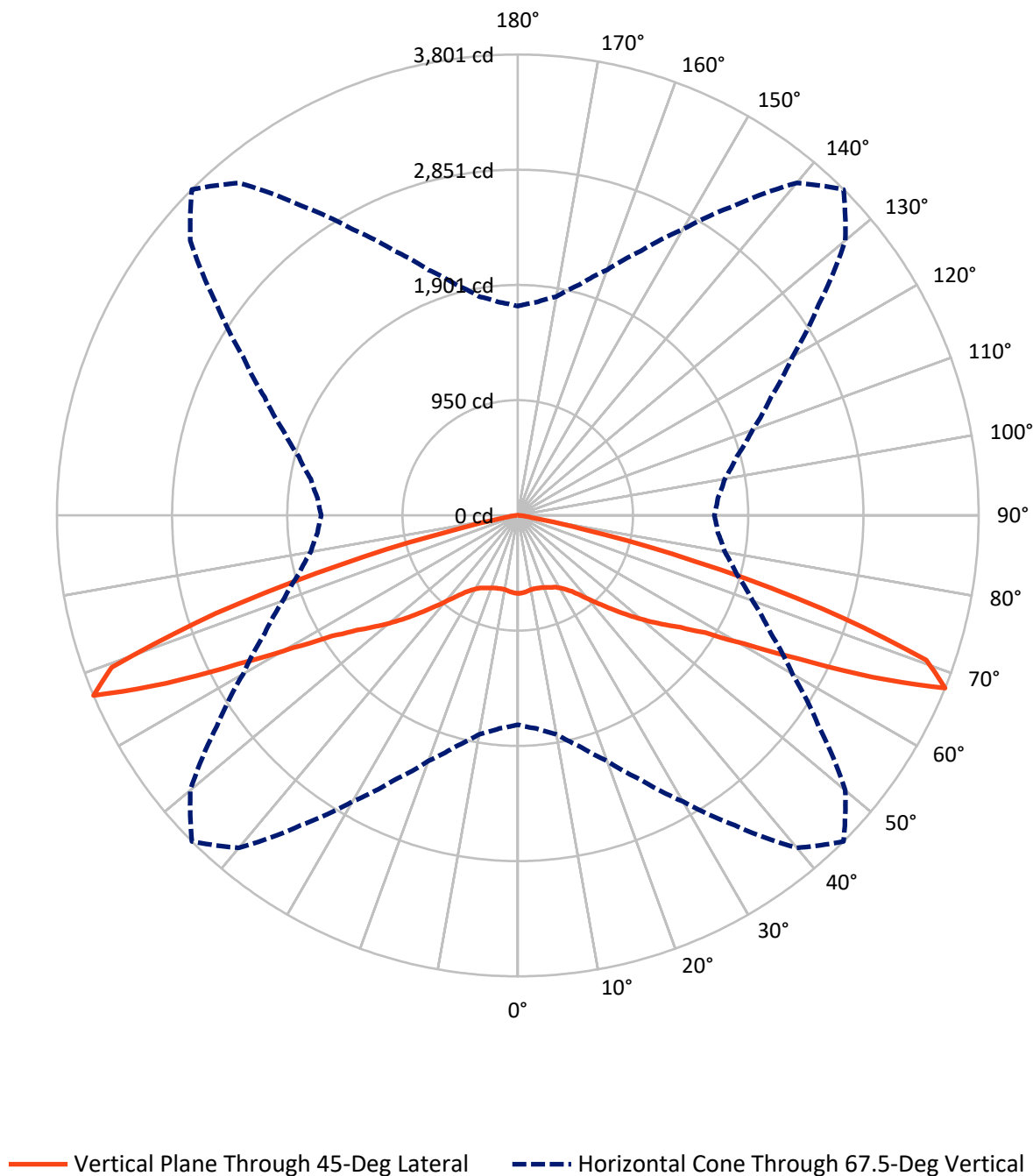


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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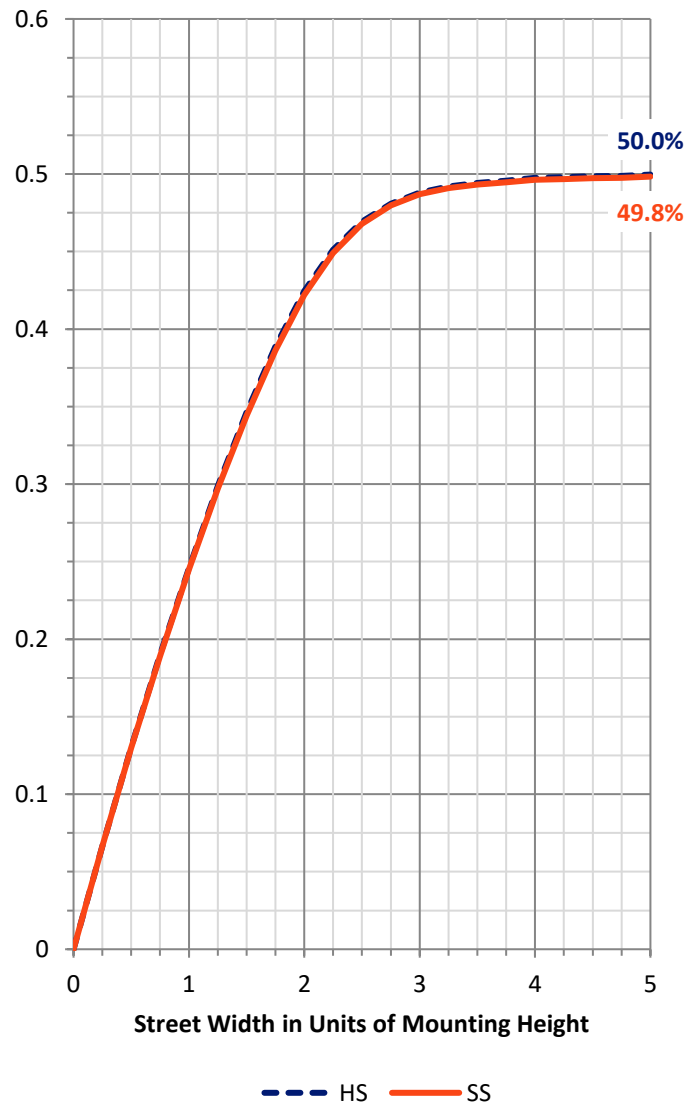
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3229.1   | 0.0    | 3229.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3229.1   | 0.0    | 3229.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6458.3   | 0.0    | 6458.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.2   | 0.9       |
| 10°-20°   | 174.8  | 2.7       |
| 20°-30°   | 297.2  | 4.6       |
| 30°-40°   | 485.8  | 7.5       |
| 40°-50°   | 867.2  | 13.4      |
| 50°-60°   | 1462.1 | 22.6      |
| 60°-70°   | 2268.9 | 35.1      |
| 70°-80°   | 797.2  | 12.3      |
| 80°-90°   | 45.0   | 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°    | 6458.3 | 100.0     |
| 0°-180°   | 6458.3 | 100.0     |

**Coefficient of Utilization**



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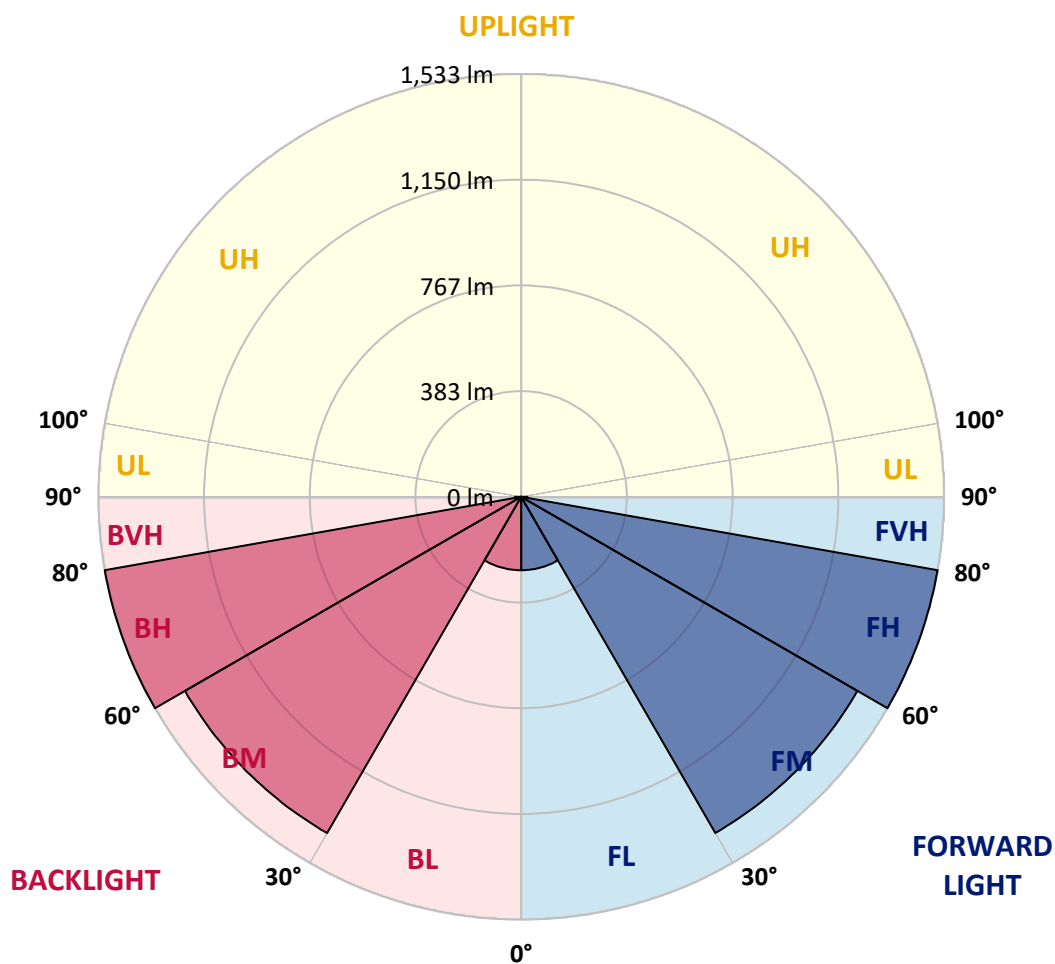
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 266.1  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1407.5 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1533.0 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 22.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 266.1  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1407.5 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1533.0 | 23.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 22.5   | 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°    | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  |
| 2.5°  | 641.3  | 641.8  | 641.8  | 641.8  | 641.6  | 641.6  | 641.0  | 641.6  | 641.3  | 640.4  | 640.6  |
| 5°    | 635.9  | 636.4  | 636.4  | 636.2  | 637.1  | 636.8  | 635.9  | 636.4  | 636.2  | 635.6  | 635.9  |
| 7.5°  | 628.1  | 629.0  | 629.0  | 628.8  | 629.7  | 629.4  | 628.8  | 629.0  | 629.0  | 628.1  | 628.1  |
| 10°   | 619.5  | 620.1  | 620.1  | 619.8  | 621.3  | 621.3  | 621.0  | 621.9  | 622.2  | 621.3  | 620.7  |
| 12.5° | 611.6  | 612.4  | 612.4  | 613.6  | 615.1  | 615.6  | 617.2  | 618.4  | 619.5  | 619.3  | 618.1  |
| 15°   | 606.7  | 607.4  | 608.6  | 610.0  | 612.4  | 614.5  | 616.9  | 619.5  | 621.9  | 622.6  | 620.7  |
| 17.5° | 603.7  | 604.6  | 606.5  | 608.6  | 611.9  | 615.3  | 619.0  | 622.6  | 625.7  | 626.9  | 624.9  |
| 20°   | 602.9  | 603.5  | 605.3  | 608.9  | 613.3  | 618.6  | 623.7  | 627.8  | 632.3  | 633.8  | 632.3  |
| 22.5° | 604.6  | 605.9  | 607.9  | 612.1  | 618.1  | 624.9  | 630.9  | 636.4  | 642.1  | 644.7  | 642.7  |
| 25°   | 612.7  | 613.9  | 616.6  | 621.9  | 628.5  | 635.6  | 642.5  | 648.9  | 654.0  | 656.6  | 655.2  |
| 27.5° | 627.5  | 629.0  | 632.3  | 637.6  | 644.7  | 652.5  | 659.9  | 665.3  | 669.4  | 670.3  | 668.5  |
| 30°   | 649.9  | 653.2  | 656.9  | 662.8  | 671.2  | 677.7  | 685.2  | 690.0  | 695.0  | 695.0  | 693.5  |
| 32.5° | 684.6  | 687.9  | 692.0  | 697.6  | 704.1  | 711.3  | 717.9  | 721.9  | 727.3  | 727.6  | 724.1  |
| 35°   | 736.5  | 738.0  | 741.7  | 745.1  | 751.1  | 757.3  | 762.9  | 765.7  | 770.2  | 770.4  | 767.1  |
| 37.5° | 805.1  | 805.5  | 807.9  | 809.1  | 814.4  | 821.2  | 826.5  | 828.3  | 832.4  | 831.9  | 828.6  |
| 40°   | 885.1  | 886.5  | 887.4  | 889.3  | 894.9  | 901.4  | 907.1  | 908.0  | 912.5  | 911.4  | 907.3  |
| 42.5° | 977.5  | 978.0  | 983.2  | 985.7  | 991.1  | 994.4  | 1001.5 | 1002.4 | 1007.7 | 1005.3 | 1000.6 |
| 45°   | 1081.1 | 1086.5 | 1091.2 | 1096.5 | 1102.2 | 1106.0 | 1111.7 | 1110.5 | 1114.0 | 1110.5 | 1107.8 |
| 47.5° | 1190.1 | 1193.9 | 1204.6 | 1213.0 | 1222.2 | 1225.5 | 1233.4 | 1229.8 | 1233.4 | 1228.4 | 1227.5 |
| 50°   | 1310.0 | 1316.9 | 1326.1 | 1335.5 | 1345.4 | 1350.8 | 1361.2 | 1356.7 | 1361.5 | 1356.7 | 1354.0 |
| 52.5° | 1428.2 | 1430.1 | 1450.2 | 1464.2 | 1477.8 | 1484.1 | 1490.3 | 1488.2 | 1488.5 | 1488.2 | 1485.6 |
| 55°   | 1540.5 | 1544.7 | 1564.9 | 1583.9 | 1607.6 | 1625.2 | 1635.8 | 1634.7 | 1632.0 | 1629.4 | 1624.9 |
| 57.5° | 1667.1 | 1671.2 | 1694.4 | 1717.9 | 1744.9 | 1769.8 | 1791.6 | 1813.8 | 1822.5 | 1824.7 | 1815.1 |
| 60°   | 1838.2 | 1837.8 | 1868.8 | 1897.3 | 1935.8 | 1973.0 | 2020.5 | 2069.0 | 2124.4 | 2150.3 | 2116.2 |
| 62.5° | 2012.1 | 2019.3 | 2063.8 | 2114.3 | 2193.9 | 2271.5 | 2359.0 | 2445.2 | 2533.0 | 2604.7 | 2528.7 |
| 65°   | 1991.4 | 2018.7 | 2084.8 | 2199.3 | 2346.4 | 2520.9 | 2709.8 | 2909.7 | 3090.3 | 3214.4 | 3075.1 |
| 67.5° | 1725.9 | 1764.7 | 1832.2 | 1971.1 | 2155.0 | 2406.9 | 2724.1 | 3119.4 | 3578.9 | 3801.0 | 3525.7 |
| 70°   | 1250.9 | 1294.9 | 1365.6 | 1501.3 | 1683.3 | 1922.8 | 2267.3 | 2741.9 | 3350.1 | 3574.1 | 3270.9 |
| 72.5° | 622.6  | 646.3  | 690.0  | 776.4  | 914.2  | 1108.4 | 1420.8 | 1877.1 | 2415.1 | 2620.7 | 2343.6 |
| 75°   | 211.4  | 222.5  | 229.9  | 258.1  | 301.8  | 378.0  | 533.4  | 820.6  | 1251.9 | 1500.7 | 1234.1 |
| 77.5° | 122.1  | 122.4  | 127.4  | 132.4  | 139.9  | 148.1  | 169.1  | 221.9  | 383.7  | 544.9  | 397.0  |
| 80°   | 79.0   | 78.6   | 82.8   | 86.8   | 91.8   | 95.9   | 97.1   | 102.8  | 118.5  | 140.5  | 125.6  |
| 82.5° | 41.0   | 46.0   | 55.2   | 60.3   | 69.8   | 71.6   | 69.2   | 67.0   | 71.0   | 73.6   | 75.4   |
| 85°   | 22.6   | 19.5   | 29.4   | 38.0   | 42.2   | 42.7   | 42.7   | 40.4   | 41.8   | 41.0   | 44.6   |
| 87.5° | 10.4   | 9.5    | 11.6   | 18.7   | 19.8   | 16.9   | 17.8   | 15.8   | 11.3   | 11.0   | 12.4   |
| 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°    | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  | 643.6  |
| 2.5°  | 640.6  | 641.0  | 641.0  | 641.8  | 642.1  | 642.7  | 643.3  | 643.6  |
| 5°    | 635.6  | 636.4  | 635.9  | 636.8  | 636.8  | 637.3  | 637.3  | 637.6  |
| 7.5°  | 628.1  | 629.0  | 629.0  | 629.0  | 628.8  | 629.7  | 629.7  | 629.7  |
| 10°   | 620.5  | 621.0  | 620.7  | 620.1  | 619.5  | 620.5  | 620.1  | 619.8  |
| 12.5° | 618.1  | 616.6  | 615.3  | 614.8  | 613.6  | 613.9  | 613.1  | 613.1  |
| 15°   | 619.5  | 616.9  | 614.8  | 613.9  | 612.7  | 612.1  | 611.6  | 611.9  |
| 17.5° | 623.5  | 620.1  | 617.5  | 616.0  | 614.5  | 613.6  | 612.4  | 612.7  |
| 20°   | 630.2  | 626.4  | 622.6  | 619.5  | 616.9  | 615.3  | 614.5  | 614.1  |
| 22.5° | 640.4  | 634.7  | 629.0  | 624.6  | 621.0  | 619.0  | 618.1  | 617.5  |
| 25°   | 651.9  | 645.7  | 639.1  | 634.1  | 630.5  | 627.8  | 626.0  | 626.0  |
| 27.5° | 666.5  | 661.4  | 655.4  | 649.5  | 646.3  | 643.6  | 642.5  | 641.8  |
| 30°   | 690.8  | 686.0  | 681.3  | 675.7  | 671.5  | 668.8  | 666.8  | 665.0  |
| 32.5° | 721.9  | 718.2  | 714.3  | 710.0  | 706.3  | 702.7  | 699.5  | 697.9  |
| 35°   | 766.0  | 762.9  | 760.3  | 755.5  | 754.1  | 752.0  | 750.2  | 748.8  |
| 37.5° | 826.5  | 825.4  | 825.4  | 820.3  | 819.1  | 818.3  | 816.5  | 816.7  |
| 40°   | 906.2  | 907.3  | 905.9  | 904.1  | 903.1  | 900.9  | 900.9  | 902.9  |
| 42.5° | 1000.3 | 1001.2 | 1004.4 | 1001.5 | 1004.7 | 1001.8 | 1000.0 | 1001.5 |
| 45°   | 1109.6 | 1112.8 | 1119.4 | 1116.4 | 1118.5 | 1113.5 | 1107.3 | 1107.6 |
| 47.5° | 1232.2 | 1235.1 | 1237.9 | 1235.8 | 1236.2 | 1227.7 | 1219.5 | 1217.3 |
| 50°   | 1359.6 | 1360.9 | 1362.4 | 1359.4 | 1360.0 | 1350.8 | 1341.2 | 1341.6 |
| 52.5° | 1485.6 | 1491.3 | 1497.2 | 1489.2 | 1487.3 | 1476.9 | 1463.6 | 1458.3 |
| 55°   | 1629.6 | 1637.7 | 1630.8 | 1616.8 | 1603.0 | 1588.9 | 1571.4 | 1568.4 |
| 57.5° | 1807.2 | 1793.6 | 1772.1 | 1745.8 | 1726.4 | 1706.8 | 1689.0 | 1681.6 |
| 60°   | 2054.3 | 2002.9 | 1964.4 | 1925.1 | 1900.4 | 1876.4 | 1852.9 | 1849.4 |
| 62.5° | 2403.6 | 2314.7 | 2237.8 | 2156.8 | 2090.5 | 2038.9 | 1997.6 | 1986.0 |
| 65°   | 2841.4 | 2631.4 | 2449.4 | 2279.4 | 2131.8 | 2020.5 | 1950.4 | 1919.4 |
| 67.5° | 3029.6 | 2615.1 | 2302.9 | 2061.7 | 1868.8 | 1733.8 | 1658.1 | 1620.5 |
| 70°   | 2662.3 | 2168.7 | 1829.2 | 1587.7 | 1411.9 | 1268.2 | 1199.5 | 1159.2 |
| 72.5° | 1831.6 | 1379.6 | 1090.9 | 890.4  | 749.9  | 629.7  | 582.2  | 578.5  |
| 75°   | 822.4  | 544.6  | 375.5  | 289.3  | 243.5  | 211.8  | 201.9  | 194.5  |
| 77.5° | 230.2  | 170.2  | 151.8  | 141.9  | 132.4  | 121.5  | 117.4  | 118.2  |
| 80°   | 112.0  | 105.8  | 101.6  | 95.4   | 86.8   | 77.5   | 73.3   | 75.2   |
| 82.5° | 74.3   | 73.3   | 76.1   | 71.6   | 59.1   | 50.1   | 42.2   | 38.6   |
| 85°   | 45.2   | 45.8   | 46.7   | 46.9   | 39.8   | 28.0   | 19.0   | 21.5   |
| 87.5° | 17.8   | 20.5   | 22.3   | 23.2   | 21.7   | 13.3   | 10.7   | 11.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)