

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: P200383

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200383  
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-7060  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 5700K, 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: 6678 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

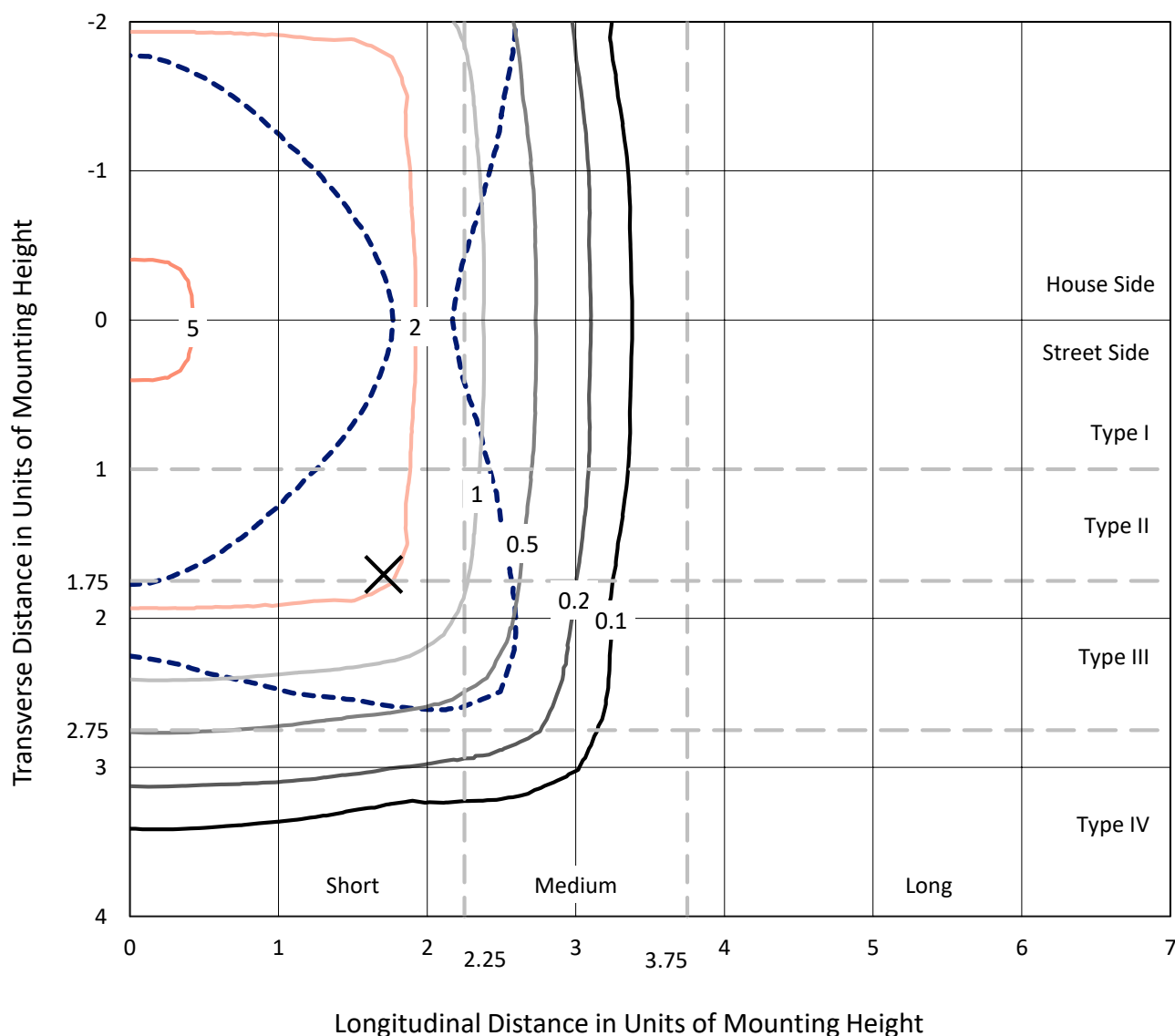


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

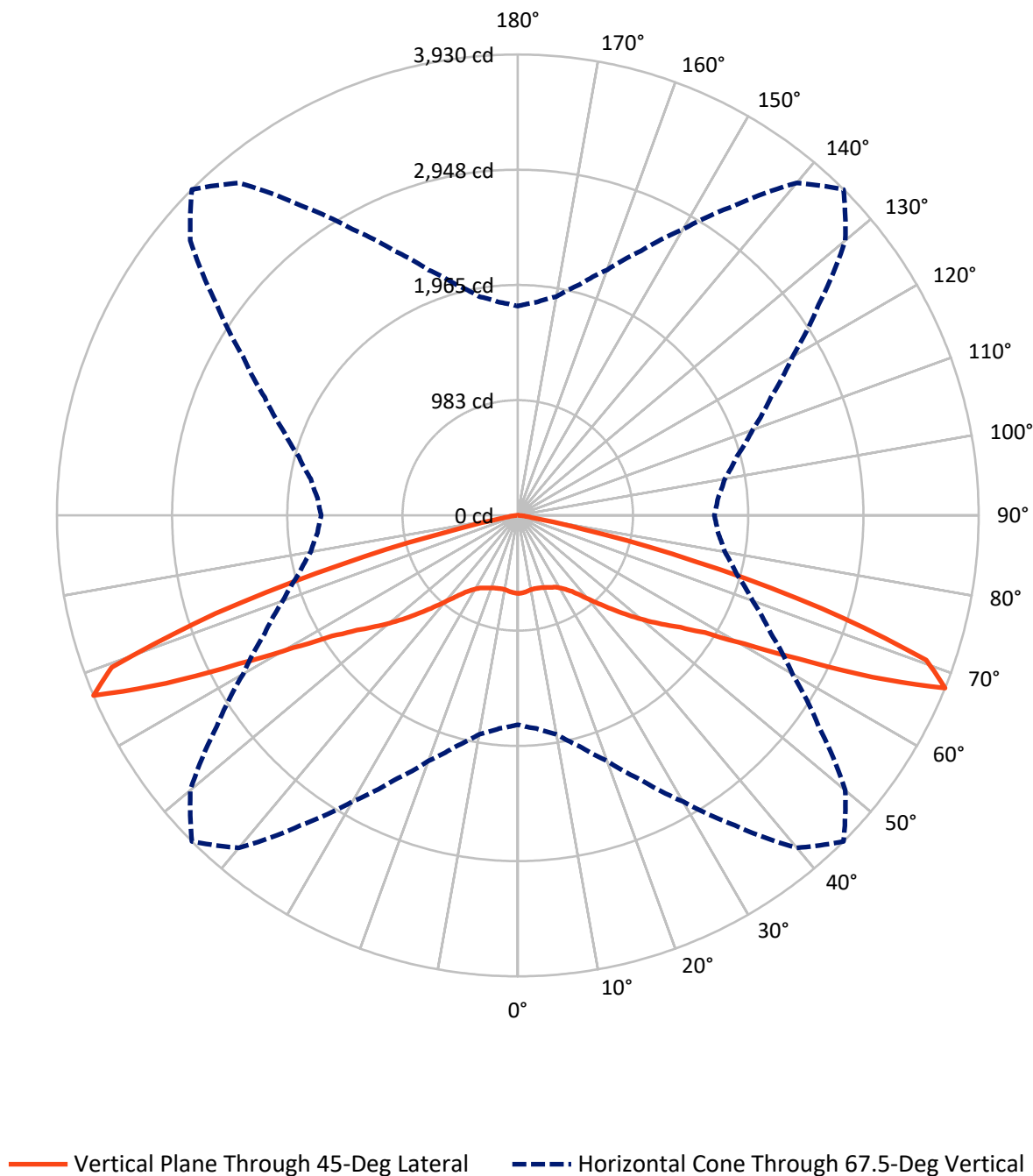


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3339.0   | 0.0    | 3339.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3339.0   | 0.0    | 3339.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6678.0   | 0.0    | 6678.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.3   | 0.9       |
| 10°-20°   | 180.7  | 2.7       |
| 20°-30°   | 307.3  | 4.6       |
| 30°-40°   | 502.3  | 7.5       |
| 40°-50°   | 896.7  | 13.4      |
| 50°-60°   | 1511.8 | 22.6      |
| 60°-70°   | 2346.1 | 35.1      |
| 70°-80°   | 824.3  | 12.3      |
| 80°-90°   | 46.6   | 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°    | 6678.0 | 100.0     |
| 0°-180°   | 6678.0 | 100.0     |

**Coefficient of Utilization**



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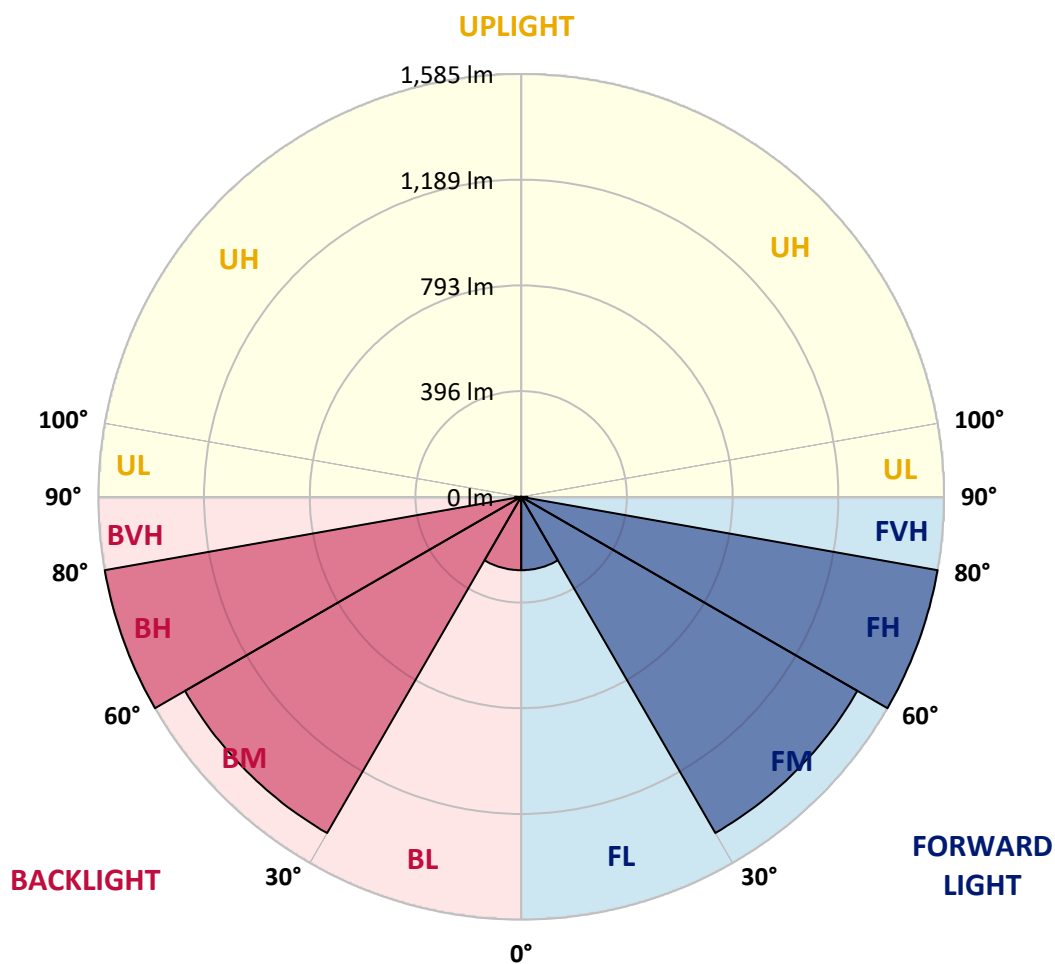
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 275.1  | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 1455.4 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 1585.2 | 23.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 23.3   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 275.1  | 4.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1455.4 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1585.2 | 23.7      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 23.3   | 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°    | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  |
| 2.5°  | 663.0  | 663.6  | 663.6  | 663.6  | 663.3  | 663.3  | 662.7  | 663.3  | 663.0  | 662.1  | 662.4  |
| 5°    | 657.5  | 658.1  | 658.1  | 657.8  | 658.7  | 658.4  | 657.5  | 658.1  | 657.8  | 657.2  | 657.5  |
| 7.5°  | 649.5  | 650.4  | 650.4  | 650.1  | 651.1  | 650.7  | 650.1  | 650.4  | 650.4  | 649.5  | 649.5  |
| 10°   | 640.6  | 641.2  | 641.2  | 640.9  | 642.5  | 642.5  | 642.2  | 643.1  | 643.4  | 642.5  | 641.8  |
| 12.5° | 632.3  | 633.2  | 633.2  | 634.5  | 636.0  | 636.6  | 638.2  | 639.4  | 640.6  | 640.3  | 639.1  |
| 15°   | 627.4  | 628.0  | 629.3  | 630.8  | 633.2  | 635.4  | 637.9  | 640.6  | 643.1  | 643.7  | 641.8  |
| 17.5° | 624.3  | 625.3  | 627.1  | 629.3  | 632.6  | 636.3  | 640.0  | 643.7  | 647.1  | 648.3  | 646.1  |
| 20°   | 623.4  | 624.0  | 625.9  | 629.6  | 634.2  | 639.7  | 644.9  | 649.2  | 653.8  | 655.4  | 653.8  |
| 22.5° | 625.3  | 626.5  | 628.6  | 632.9  | 639.1  | 646.1  | 652.3  | 658.1  | 664.0  | 666.7  | 664.6  |
| 25°   | 633.6  | 634.8  | 637.5  | 643.1  | 649.8  | 657.2  | 664.3  | 671.0  | 676.2  | 679.0  | 677.5  |
| 27.5° | 648.9  | 650.4  | 653.8  | 659.3  | 666.7  | 674.7  | 682.4  | 687.9  | 692.2  | 693.1  | 691.3  |
| 30°   | 671.9  | 675.3  | 679.3  | 685.5  | 694.1  | 700.8  | 708.5  | 713.4  | 718.6  | 718.6  | 717.1  |
| 32.5° | 707.9  | 711.2  | 715.5  | 721.4  | 728.1  | 735.5  | 742.3  | 746.6  | 752.1  | 752.4  | 748.7  |
| 35°   | 761.6  | 763.1  | 766.8  | 770.5  | 776.7  | 783.1  | 788.9  | 791.7  | 796.3  | 796.6  | 793.2  |
| 37.5° | 832.6  | 832.9  | 835.3  | 836.5  | 842.1  | 849.1  | 854.7  | 856.5  | 860.8  | 860.2  | 856.8  |
| 40°   | 915.2  | 916.7  | 917.6  | 919.5  | 925.3  | 932.1  | 937.9  | 938.8  | 943.4  | 942.5  | 938.2  |
| 42.5° | 1010.7 | 1011.3 | 1016.5 | 1019.3 | 1024.8 | 1028.2 | 1035.5 | 1036.5 | 1042.0 | 1039.5 | 1034.6 |
| 45°   | 1117.9 | 1123.4 | 1128.3 | 1133.8 | 1139.7 | 1143.6 | 1149.5 | 1148.3 | 1151.9 | 1148.3 | 1145.5 |
| 47.5° | 1230.6 | 1234.6 | 1245.6 | 1254.2 | 1263.7 | 1267.1 | 1275.4 | 1271.7 | 1275.4 | 1270.2 | 1269.3 |
| 50°   | 1354.6 | 1361.7 | 1371.2 | 1381.0 | 1391.2 | 1396.7 | 1407.5 | 1402.8 | 1407.8 | 1402.8 | 1400.1 |
| 52.5° | 1476.9 | 1478.7 | 1499.6 | 1514.0 | 1528.1 | 1534.6 | 1541.0 | 1538.9 | 1539.2 | 1538.9 | 1536.1 |
| 55°   | 1592.9 | 1597.2 | 1618.1 | 1637.8 | 1662.3 | 1680.5 | 1691.5 | 1690.3 | 1687.5 | 1684.8 | 1680.2 |
| 57.5° | 1723.8 | 1728.1 | 1752.0 | 1776.3 | 1804.2 | 1830.0 | 1852.4 | 1875.5 | 1884.4 | 1886.8 | 1876.7 |
| 60°   | 1900.7 | 1900.3 | 1932.3 | 1961.8 | 2001.7 | 2040.1 | 2089.2 | 2139.3 | 2196.7 | 2223.4 | 2188.1 |
| 62.5° | 2080.6 | 2088.0 | 2134.1 | 2186.3 | 2268.6 | 2348.7 | 2439.3 | 2528.4 | 2619.3 | 2693.3 | 2614.7 |
| 65°   | 2059.1 | 2087.4 | 2155.9 | 2274.1 | 2426.1 | 2606.7 | 2802.0 | 3008.7 | 3195.4 | 3323.8 | 3179.7 |
| 67.5° | 1784.6 | 1824.8 | 1894.5 | 2038.2 | 2228.3 | 2488.8 | 2816.7 | 3225.5 | 3700.6 | 3930.3 | 3645.6 |
| 70°   | 1293.5 | 1339.0 | 1412.1 | 1552.4 | 1740.7 | 1988.2 | 2344.4 | 2835.2 | 3464.1 | 3695.7 | 3382.1 |
| 72.5° | 643.7  | 668.3  | 713.4  | 802.8  | 945.3  | 1146.1 | 1469.2 | 1940.9 | 2497.4 | 2709.9 | 2423.3 |
| 75°   | 218.7  | 230.0  | 237.7  | 266.9  | 312.0  | 390.9  | 551.6  | 848.5  | 1294.4 | 1551.8 | 1276.0 |
| 77.5° | 126.2  | 126.5  | 131.7  | 137.0  | 144.6  | 153.2  | 174.7  | 229.4  | 396.8  | 563.5  | 410.6  |
| 80°   | 81.7   | 81.4   | 85.7   | 89.7   | 94.9   | 99.2   | 100.4  | 106.3  | 122.5  | 145.3  | 129.9  |
| 82.5° | 42.4   | 47.6   | 57.1   | 62.3   | 72.2   | 74.0   | 71.6   | 69.4   | 73.4   | 76.2   | 78.0   |
| 85°   | 23.3   | 20.3   | 30.4   | 39.3   | 43.6   | 44.2   | 44.2   | 41.8   | 43.3   | 42.4   | 46.1   |
| 87.5° | 10.7   | 9.8    | 12.0   | 19.3   | 20.6   | 17.5   | 18.4   | 16.3   | 11.7   | 11.4   | 12.9   |
| 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°    | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  | 665.5  |
| 2.5°  | 662.4  | 662.7  | 662.7  | 663.6  | 664.0  | 664.6  | 665.2  | 665.5  |
| 5°    | 657.2  | 658.1  | 657.5  | 658.4  | 658.4  | 659.0  | 659.0  | 659.3  |
| 7.5°  | 649.5  | 650.4  | 650.4  | 650.4  | 650.1  | 651.1  | 651.1  | 651.1  |
| 10°   | 641.5  | 642.2  | 641.8  | 641.2  | 640.6  | 641.5  | 641.2  | 640.9  |
| 12.5° | 639.1  | 637.5  | 636.3  | 635.7  | 634.5  | 634.8  | 633.9  | 633.9  |
| 15°   | 640.6  | 637.9  | 635.7  | 634.8  | 633.6  | 632.9  | 632.3  | 632.6  |
| 17.5° | 644.6  | 641.2  | 638.5  | 636.9  | 635.4  | 634.5  | 633.2  | 633.6  |
| 20°   | 651.7  | 647.7  | 643.7  | 640.6  | 637.9  | 636.3  | 635.4  | 635.1  |
| 22.5° | 662.1  | 656.3  | 650.4  | 645.8  | 642.2  | 640.0  | 639.1  | 638.5  |
| 25°   | 674.1  | 667.6  | 660.9  | 655.7  | 652.0  | 649.2  | 647.4  | 647.4  |
| 27.5° | 689.1  | 683.9  | 677.8  | 671.6  | 668.3  | 665.5  | 664.3  | 663.6  |
| 30°   | 714.3  | 709.4  | 704.5  | 698.7  | 694.4  | 691.6  | 689.4  | 687.6  |
| 32.5° | 746.6  | 742.6  | 738.6  | 734.3  | 730.3  | 726.6  | 723.2  | 721.7  |
| 35°   | 792.0  | 788.9  | 786.2  | 781.3  | 779.7  | 777.6  | 775.7  | 774.2  |
| 37.5° | 854.7  | 853.4  | 853.4  | 848.2  | 847.0  | 846.1  | 844.2  | 844.5  |
| 40°   | 937.0  | 938.2  | 936.7  | 934.8  | 933.9  | 931.4  | 931.4  | 933.6  |
| 42.5° | 1034.3 | 1035.2 | 1038.6 | 1035.5 | 1038.9 | 1035.9 | 1034.0 | 1035.5 |
| 45°   | 1147.3 | 1150.7 | 1157.5 | 1154.4 | 1156.5 | 1151.3 | 1144.9 | 1145.2 |
| 47.5° | 1274.2 | 1277.2 | 1280.0 | 1277.9 | 1278.2 | 1269.6 | 1261.0 | 1258.8 |
| 50°   | 1405.9 | 1407.1 | 1408.7 | 1405.6 | 1406.2 | 1396.7 | 1386.9 | 1387.2 |
| 52.5° | 1536.1 | 1542.0 | 1548.1 | 1539.8 | 1538.0 | 1527.2 | 1513.4 | 1507.9 |
| 55°   | 1685.1 | 1693.4 | 1686.3 | 1671.9 | 1657.4 | 1643.0 | 1624.9 | 1621.8 |
| 57.5° | 1868.7 | 1854.6 | 1832.5 | 1805.1 | 1785.2 | 1764.9 | 1746.5 | 1738.8 |
| 60°   | 2124.2 | 2071.1 | 2031.2 | 1990.6 | 1965.1 | 1940.3 | 1916.0 | 1912.3 |
| 62.5° | 2485.4 | 2393.6 | 2314.0 | 2230.2 | 2161.7 | 2108.3 | 2065.6 | 2053.6 |
| 65°   | 2938.0 | 2720.9 | 2532.7 | 2357.0 | 2204.4 | 2089.2 | 2016.7 | 1984.8 |
| 67.5° | 3132.8 | 2704.0 | 2381.3 | 2131.9 | 1932.3 | 1792.9 | 1714.6 | 1675.6 |
| 70°   | 2752.9 | 2242.5 | 1891.4 | 1641.8 | 1460.0 | 1311.3 | 1240.4 | 1198.6 |
| 72.5° | 1893.9 | 1426.5 | 1128.0 | 920.7  | 775.4  | 651.1  | 601.9  | 598.2  |
| 75°   | 850.4  | 563.2  | 388.2  | 299.1  | 251.8  | 219.0  | 208.8  | 201.2  |
| 77.5° | 238.0  | 176.0  | 156.9  | 146.8  | 137.0  | 125.6  | 121.3  | 122.2  |
| 80°   | 115.8  | 109.3  | 105.0  | 98.6   | 89.7   | 80.2   | 75.9   | 77.7   |
| 82.5° | 76.8   | 75.9   | 78.6   | 74.0   | 61.1   | 51.9   | 43.6   | 39.9   |
| 85°   | 46.7   | 47.3   | 48.2   | 48.5   | 41.2   | 28.9   | 19.7   | 22.1   |
| 87.5° | 18.4   | 21.2   | 23.0   | 24.0   | 22.4   | 13.8   | 11.1   | 11.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)