

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: P199943

Luminaire Tested: **GAP-AF-01-LED-U-RW-7030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P199943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7030  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6284.6 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium - 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



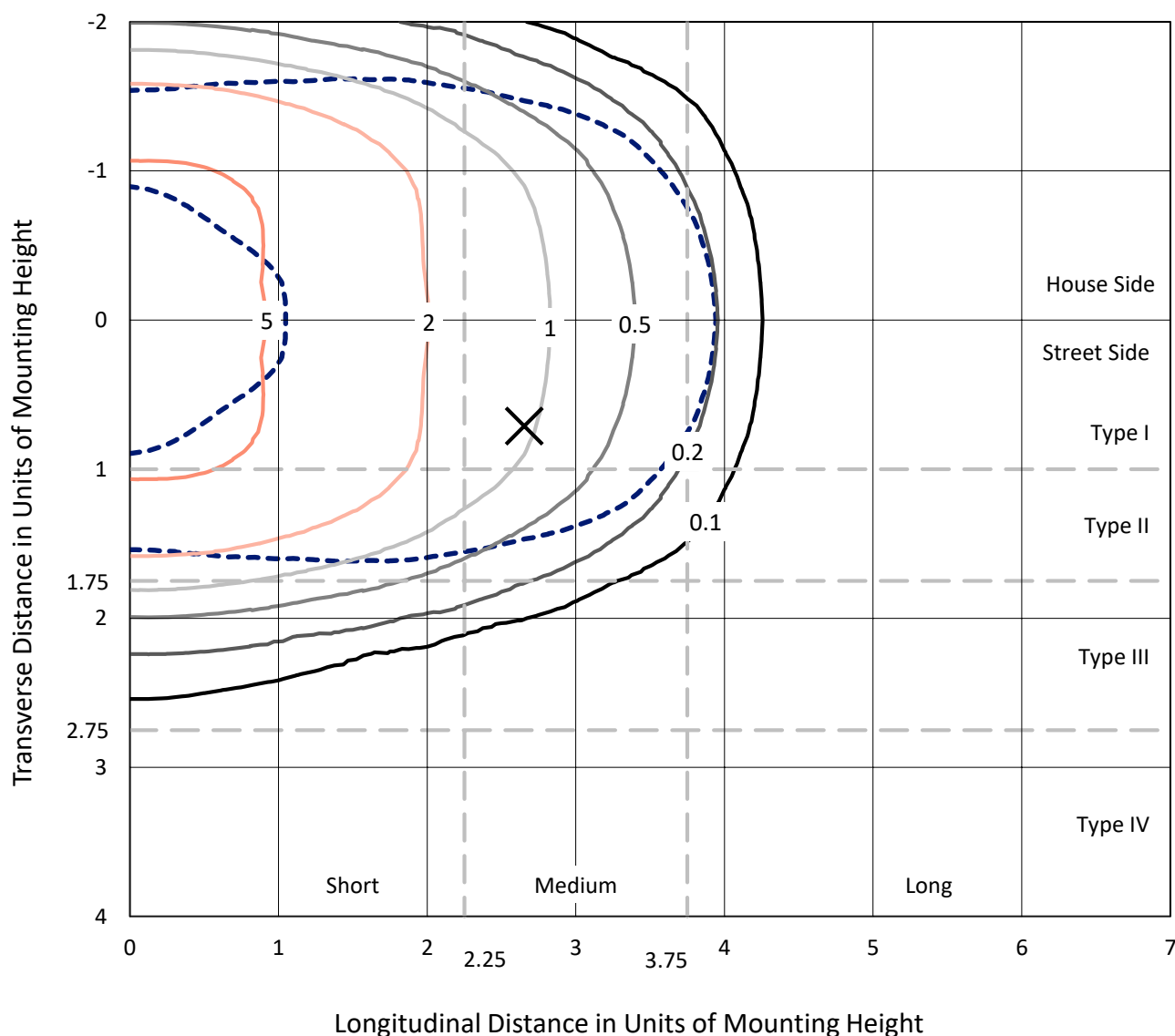
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

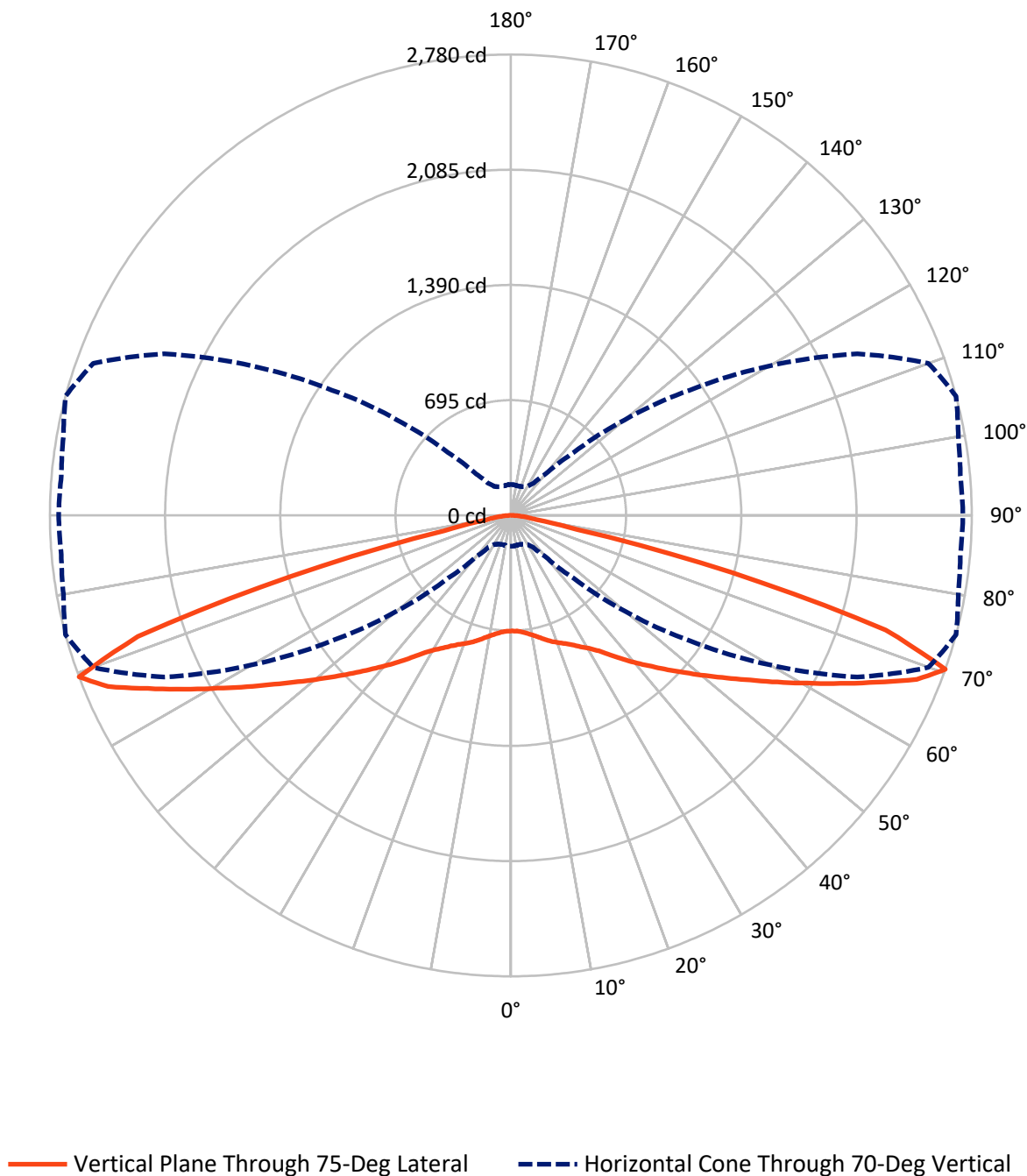


Based on 10 foot mounting height. Maximum calculated value = 7 fc  
Type V - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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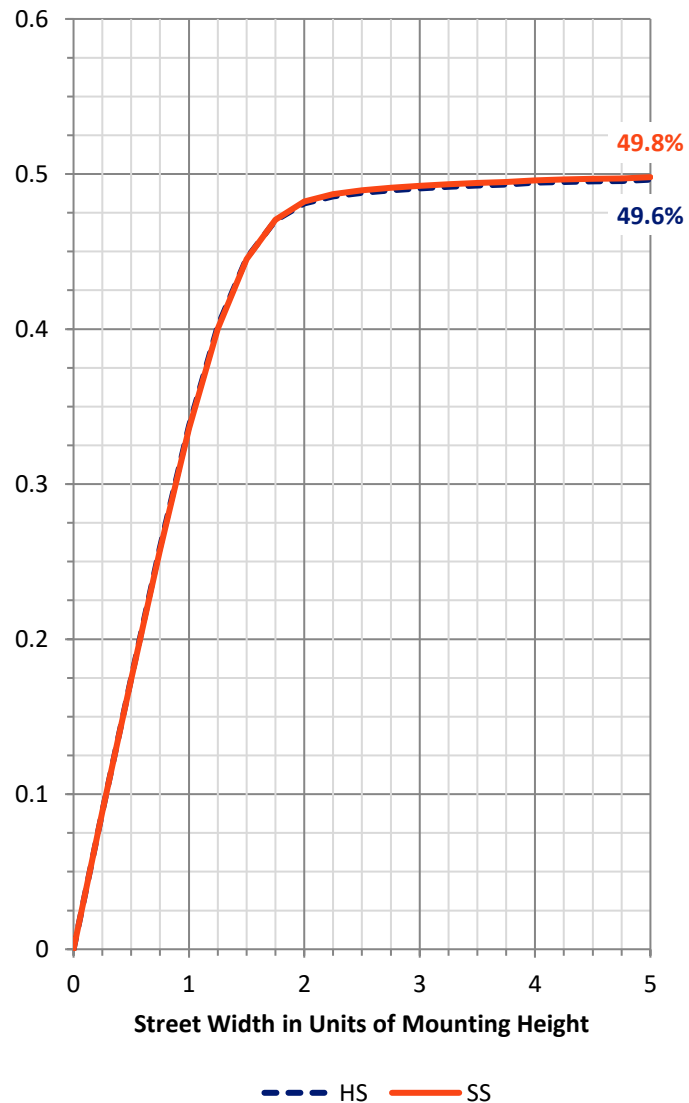
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3142.3   | 0.0    | 3142.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3142.3   | 0.0    | 3142.3 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6284.6   | 0.0    | 6284.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.9   | 1.1       |
| 10°-20°   | 207.7  | 3.3       |
| 20°-30°   | 391.0  | 6.2       |
| 30°-40°   | 692.4  | 11.0      |
| 40°-50°   | 1157.9 | 18.4      |
| 50°-60°   | 1613.5 | 25.7      |
| 60°-70°   | 1496.3 | 23.8      |
| 70°-80°   | 596.3  | 9.5       |
| 80°-90°   | 62.7   | 1.0       |
| 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°    | 6284.6 | 100.0     |
| 0°-180°   | 6284.6 | 100.0     |

**Coefficient of Utilization**



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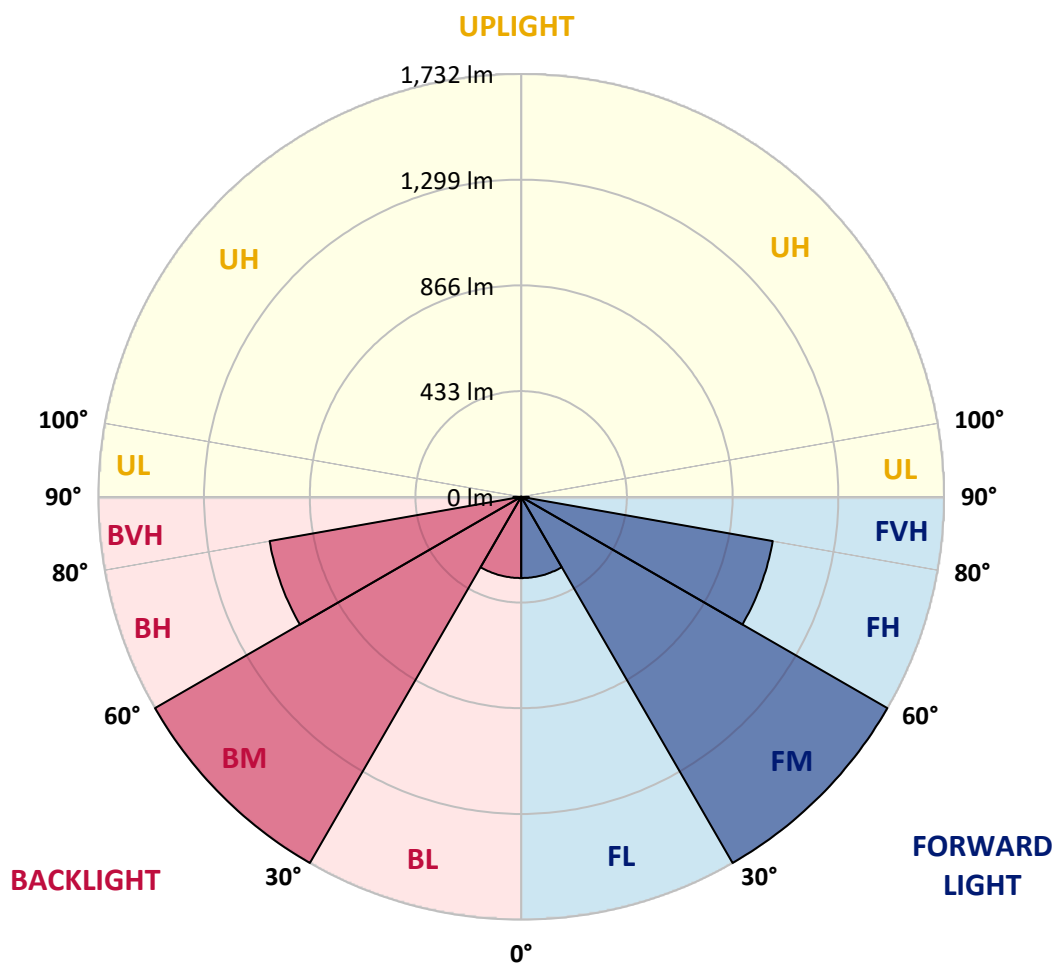
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 332.8  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 1731.9 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 1046.3 | 16.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 332.8  | 5.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1731.9 | 27.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1046.3 | 16.6      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 31.3   | 0.5       |                         |      | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  |
| 2.5°  | 695.9  | 695.3  | 695.9  | 695.7  | 696.2  | 696.2  | 696.8  | 697.9  | 697.9  | 698.9  | 698.6  |
| 5°    | 689.1  | 688.8  | 689.7  | 690.6  | 691.5  | 693.2  | 695.0  | 697.7  | 699.8  | 701.2  | 702.7  |
| 7.5°  | 675.8  | 675.8  | 676.9  | 678.9  | 681.1  | 684.9  | 689.1  | 694.5  | 699.8  | 704.2  | 708.1  |
| 10°   | 664.8  | 665.3  | 666.8  | 670.5  | 673.9  | 679.9  | 685.5  | 693.2  | 700.7  | 708.1  | 714.0  |
| 12.5° | 658.2  | 659.1  | 661.8  | 667.1  | 673.0  | 681.1  | 689.7  | 699.5  | 707.8  | 716.7  | 722.6  |
| 15°   | 660.3  | 660.9  | 664.8  | 671.3  | 678.9  | 689.1  | 700.7  | 712.3  | 722.1  | 731.6  | 739.5  |
| 17.5° | 671.8  | 672.7  | 677.2  | 684.6  | 692.7  | 704.5  | 717.0  | 730.1  | 742.3  | 752.9  | 762.7  |
| 20°   | 692.7  | 693.6  | 699.1  | 707.2  | 716.7  | 728.9  | 741.4  | 755.0  | 768.6  | 780.0  | 790.9  |
| 22.5° | 722.1  | 723.6  | 728.9  | 737.0  | 747.6  | 760.7  | 775.5  | 790.1  | 803.2  | 813.6  | 823.4  |
| 25°   | 760.7  | 763.9  | 768.9  | 777.9  | 789.2  | 801.1  | 817.1  | 832.0  | 844.5  | 854.2  | 861.4  |
| 27.5° | 815.3  | 819.8  | 823.6  | 832.2  | 843.3  | 854.5  | 870.6  | 883.7  | 895.5  | 905.0  | 910.3  |
| 30°   | 887.8  | 892.2  | 896.2  | 904.4  | 914.5  | 925.2  | 940.4  | 951.9  | 959.4  | 966.8  | 966.5  |
| 32.5° | 975.6  | 980.5  | 981.9  | 990.9  | 1001.3 | 1012.9 | 1026.5 | 1033.0 | 1038.9 | 1039.8 | 1034.5 |
| 35°   | 1074.0 | 1076.4 | 1082.3 | 1094.2 | 1106.1 | 1115.6 | 1128.6 | 1131.9 | 1131.9 | 1127.4 | 1115.6 |
| 37.5° | 1181.8 | 1183.3 | 1191.7 | 1205.0 | 1217.1 | 1227.0 | 1235.9 | 1242.4 | 1239.2 | 1229.7 | 1209.7 |
| 40°   | 1300.0 | 1302.7 | 1314.6 | 1326.5 | 1340.2 | 1349.4 | 1358.8 | 1360.1 | 1356.8 | 1342.8 | 1315.8 |
| 42.5° | 1412.9 | 1415.4 | 1427.2 | 1445.9 | 1463.7 | 1476.5 | 1485.4 | 1487.2 | 1476.7 | 1464.0 | 1430.4 |
| 45°   | 1510.1 | 1516.3 | 1531.7 | 1553.6 | 1579.6 | 1597.7 | 1609.8 | 1614.9 | 1605.7 | 1589.0 | 1550.2 |
| 47.5° | 1587.0 | 1593.2 | 1615.2 | 1641.3 | 1673.5 | 1702.8 | 1723.0 | 1733.7 | 1731.3 | 1718.8 | 1676.4 |
| 50°   | 1643.4 | 1649.4 | 1673.1 | 1705.2 | 1742.5 | 1779.2 | 1813.6 | 1839.2 | 1848.0 | 1842.4 | 1803.6 |
| 52.5° | 1650.0 | 1659.7 | 1687.6 | 1730.7 | 1779.5 | 1829.3 | 1878.3 | 1921.8 | 1951.2 | 1955.6 | 1926.8 |
| 55°   | 1558.8 | 1568.5 | 1607.2 | 1671.0 | 1743.6 | 1824.8 | 1903.3 | 1976.4 | 2034.3 | 2064.0 | 2048.8 |
| 57.5° | 1343.7 | 1361.3 | 1401.9 | 1476.7 | 1583.3 | 1705.2 | 1830.2 | 1960.0 | 2078.0 | 2156.7 | 2171.8 |
| 60°   | 1029.8 | 1050.5 | 1091.5 | 1171.1 | 1290.0 | 1435.2 | 1602.2 | 1794.0 | 2002.1 | 2179.2 | 2284.9 |
| 62.5° | 660.6  | 680.1  | 723.3  | 792.4  | 889.3  | 1046.7 | 1225.8 | 1453.5 | 1733.4 | 2012.9 | 2264.8 |
| 65°   | 339.5  | 350.1  | 372.8  | 414.6  | 490.1  | 607.7  | 768.4  | 995.6  | 1315.5 | 1660.3 | 2024.5 |
| 67.5° | 215.0  | 217.1  | 222.2  | 228.2  | 247.5  | 288.1  | 363.0  | 504.7  | 767.8  | 1127.4 | 1553.6 |
| 70°   | 186.0  | 186.0  | 183.5  | 182.7  | 185.0  | 190.6  | 202.2  | 235.2  | 324.1  | 535.3  | 896.2  |
| 72.5° | 170.2  | 168.4  | 164.2  | 160.9  | 160.4  | 160.4  | 162.8  | 167.8  | 182.0  | 218.0  | 350.8  |
| 75°   | 156.8  | 151.8  | 146.1  | 142.2  | 140.8  | 139.3  | 139.0  | 139.9  | 142.9  | 148.5  | 167.5  |
| 77.5° | 140.5  | 134.0  | 127.4  | 123.6  | 121.9  | 119.7  | 117.9  | 115.9  | 114.4  | 116.2  | 124.4  |
| 80°   | 120.8  | 113.4  | 108.3  | 106.1  | 104.3  | 101.3  | 97.5   | 93.9   | 90.5   | 90.0   | 95.0   |
| 82.5° | 97.5   | 88.8   | 89.1   | 90.0   | 86.8   | 82.6   | 78.4   | 74.6   | 69.0   | 66.0   | 69.0   |
| 85°   | 78.6   | 74.3   | 72.2   | 77.8   | 73.1   | 66.8   | 60.3   | 53.4   | 44.6   | 37.4   | 40.7   |
| 87.5° | 30.6   | 30.6   | 45.8   | 70.4   | 63.3   | 51.7   | 44.2   | 37.7   | 23.5   | 18.1   | 18.5   |
| 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°    | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  | 697.1  |
| 2.5°  | 698.2  | 698.9  | 698.6  | 698.2  | 698.2  | 697.9  | 698.2  | 698.2  |
| 5°    | 703.6  | 705.2  | 705.2  | 705.7  | 705.7  | 706.1  | 706.4  | 706.1  |
| 7.5°  | 711.8  | 714.3  | 716.0  | 718.2  | 718.5  | 718.8  | 719.4  | 718.8  |
| 10°   | 719.7  | 725.1  | 728.9  | 732.8  | 734.6  | 735.1  | 735.8  | 735.8  |
| 12.5° | 729.8  | 737.2  | 744.0  | 750.8  | 754.1  | 756.0  | 756.0  | 757.0  |
| 15°   | 746.5  | 753.9  | 761.9  | 771.1  | 776.8  | 779.7  | 780.5  | 780.5  |
| 17.5° | 769.8  | 776.4  | 783.3  | 792.1  | 799.2  | 803.2  | 804.0  | 803.7  |
| 20°   | 797.1  | 803.5  | 807.3  | 813.0  | 819.2  | 823.6  | 824.8  | 824.8  |
| 22.5° | 828.4  | 832.0  | 832.5  | 834.3  | 839.3  | 845.3  | 848.0  | 848.6  |
| 25°   | 862.8  | 863.7  | 861.4  | 861.4  | 864.7  | 870.2  | 873.0  | 873.2  |
| 27.5° | 907.4  | 902.9  | 897.0  | 895.0  | 897.0  | 903.6  | 906.9  | 908.0  |
| 30°   | 962.9  | 952.2  | 938.5  | 931.1  | 930.1  | 938.5  | 944.5  | 945.4  |
| 32.5° | 1026.5 | 1011.0 | 992.9  | 977.8  | 973.9  | 979.3  | 986.4  | 986.1  |
| 35°   | 1102.0 | 1083.6 | 1061.6 | 1042.3 | 1033.4 | 1038.7 | 1048.8 | 1050.0 |
| 37.5° | 1189.0 | 1164.9 | 1139.7 | 1115.3 | 1101.4 | 1102.9 | 1113.6 | 1117.0 |
| 40°   | 1286.1 | 1255.0 | 1223.1 | 1190.5 | 1170.6 | 1166.7 | 1179.8 | 1181.8 |
| 42.5° | 1390.1 | 1350.0 | 1309.9 | 1269.5 | 1243.9 | 1238.0 | 1253.1 | 1252.2 |
| 45°   | 1500.9 | 1449.8 | 1402.8 | 1358.3 | 1327.9 | 1319.1 | 1331.6 | 1331.6 |
| 47.5° | 1620.0 | 1557.0 | 1501.1 | 1450.6 | 1417.6 | 1404.8 | 1416.8 | 1417.6 |
| 50°   | 1746.2 | 1679.4 | 1613.8 | 1557.6 | 1518.0 | 1501.8 | 1517.2 | 1519.6 |
| 52.5° | 1871.8 | 1806.8 | 1740.5 | 1676.4 | 1628.6 | 1608.7 | 1626.5 | 1634.2 |
| 55°   | 1999.2 | 1935.4 | 1872.1 | 1809.5 | 1752.7 | 1729.2 | 1748.2 | 1758.1 |
| 57.5° | 2133.9 | 2074.8 | 2014.4 | 1951.2 | 1896.5 | 1859.9 | 1880.2 | 1893.3 |
| 60°   | 2291.5 | 2241.0 | 2178.3 | 2108.6 | 2053.3 | 2016.2 | 2027.8 | 2039.4 |
| 62.5° | 2416.3 | 2435.8 | 2382.7 | 2301.9 | 2231.0 | 2183.4 | 2194.7 | 2206.8 |
| 65°   | 2355.9 | 2557.1 | 2604.3 | 2522.6 | 2424.3 | 2350.2 | 2345.6 | 2351.8 |
| 67.5° | 1969.3 | 2359.8 | 2644.6 | 2722.5 | 2640.2 | 2537.4 | 2518.4 | 2527.6 |
| 70°   | 1317.3 | 1803.8 | 2306.4 | 2680.5 | 2780.1 | 2740.3 | 2721.6 | 2727.2 |
| 72.5° | 632.6  | 1050.5 | 1564.7 | 2062.3 | 2365.1 | 2504.2 | 2548.7 | 2570.5 |
| 75°   | 231.4  | 417.1  | 754.1  | 1136.4 | 1372.0 | 1588.2 | 1729.2 | 1786.8 |
| 77.5° | 139.7  | 168.4  | 240.9  | 362.6  | 410.9  | 459.8  | 440.8  | 450.2  |
| 80°   | 103.4  | 116.7  | 132.2  | 148.5  | 153.8  | 153.8  | 147.9  | 143.1  |
| 82.5° | 72.4   | 81.1   | 88.5   | 97.5   | 99.8   | 95.4   | 78.4   | 62.4   |
| 85°   | 46.7   | 50.5   | 53.7   | 59.4   | 57.9   | 55.2   | 37.1   | 33.0   |
| 87.5° | 21.5   | 24.4   | 25.5   | 28.2   | 27.0   | 25.9   | 18.5   | 15.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)