

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: P200069

Luminaire Tested: **GAW-AF-01-LED-U-5NQ-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P200069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-01-LED-U-5NQ-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5419.6 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - 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



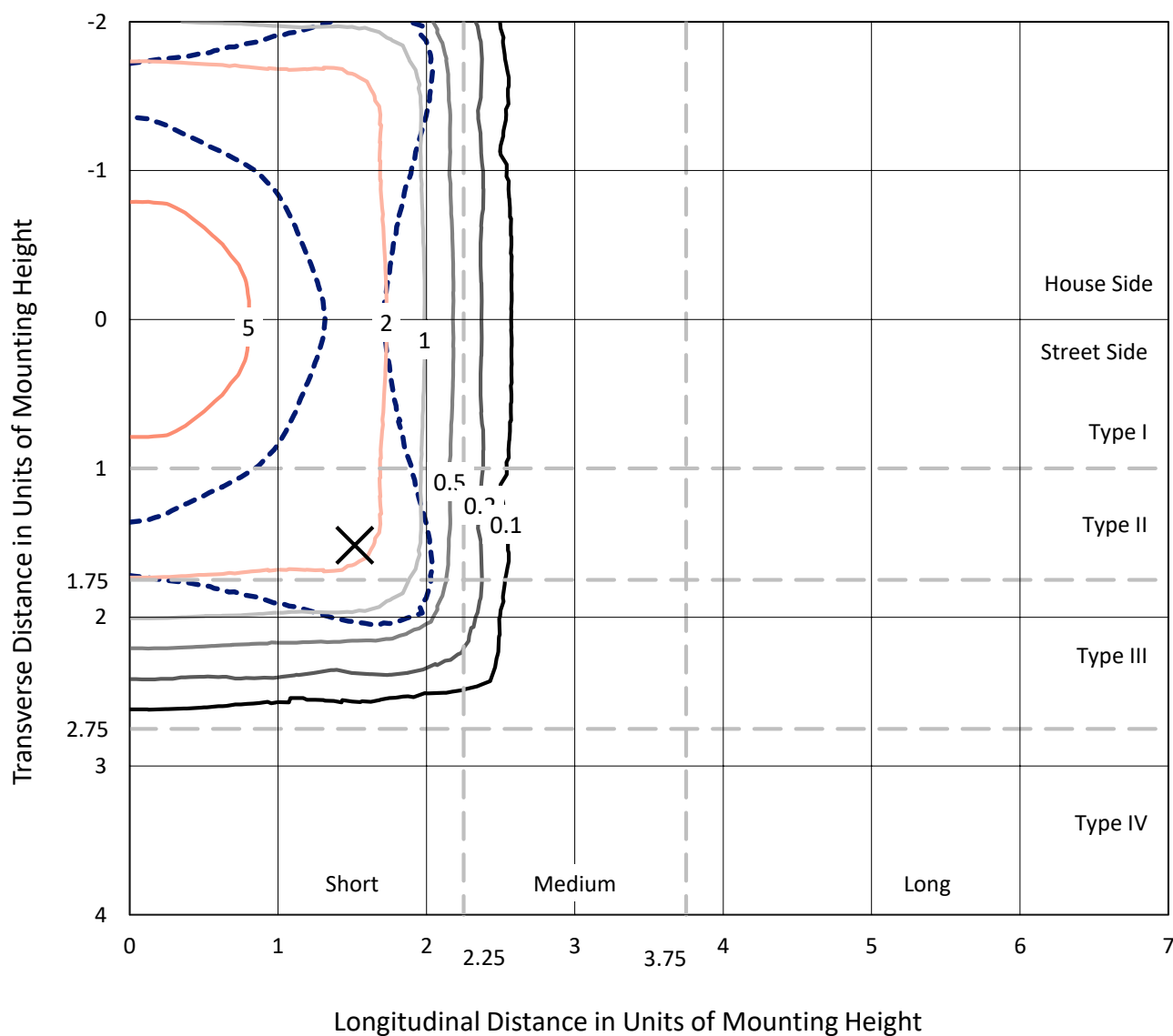
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

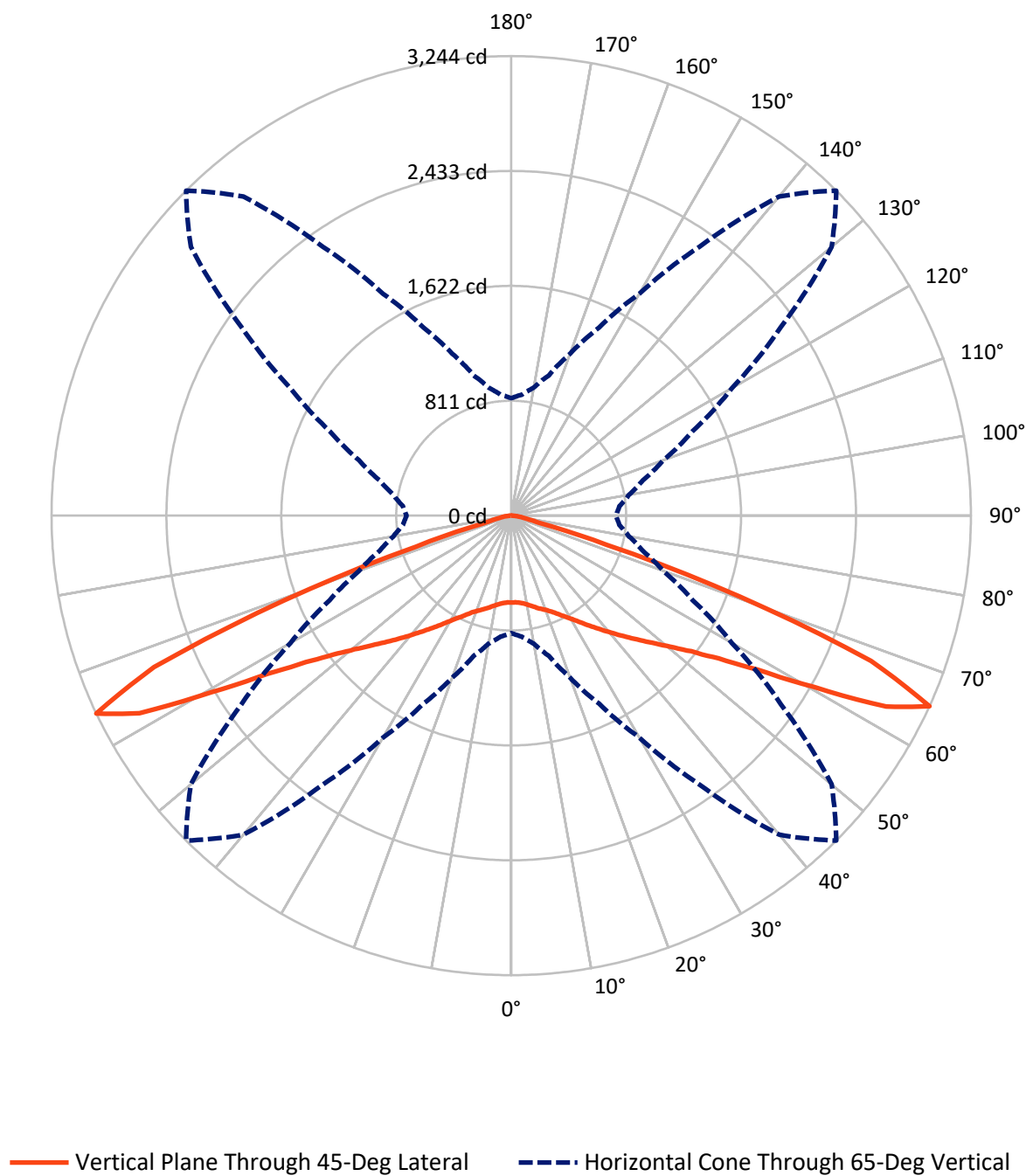


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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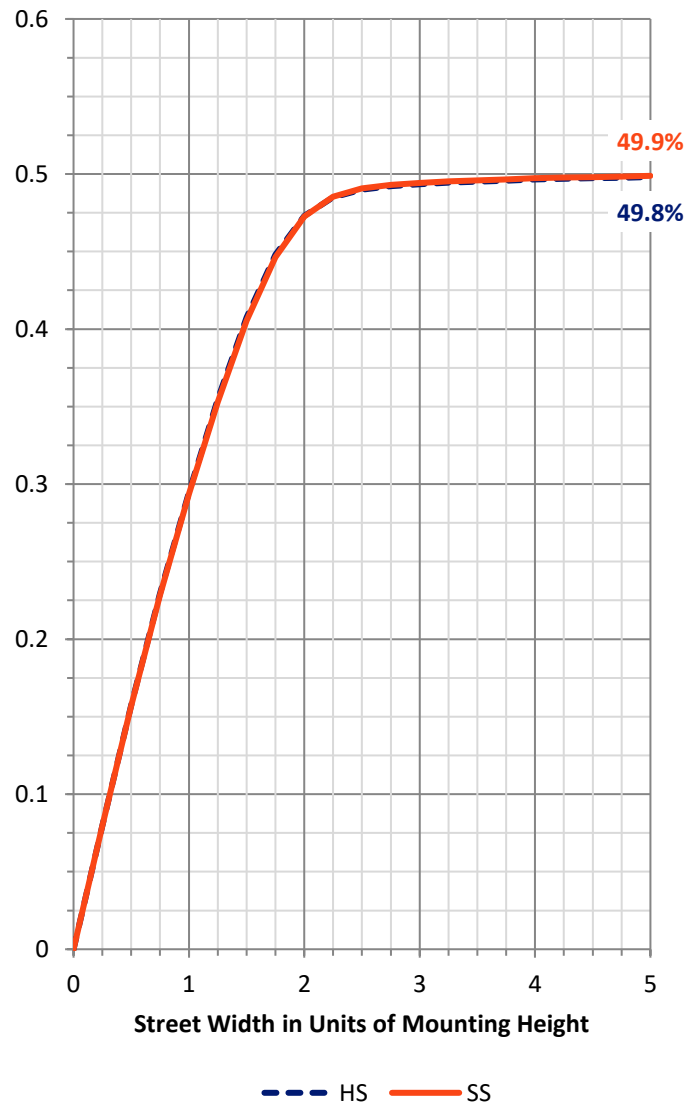
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2709.8   | 0.0    | 2709.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2709.8   | 0.0    | 2709.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5419.6   | 0.0    | 5419.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.8   | 1.1       |
| 10°-20°   | 191.7  | 3.5       |
| 20°-30°   | 358.4  | 6.6       |
| 30°-40°   | 606.2  | 11.2      |
| 40°-50°   | 991.2  | 18.3      |
| 50°-60°   | 1576.2 | 29.1      |
| 60°-70°   | 1424.8 | 26.3      |
| 70°-80°   | 180.3  | 3.3       |
| 80°-90°   | 31.0   | 0.6       |
| 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°    | 5419.6 | 100.0     |
| 0°-180°   | 5419.6 | 100.0     |

**Coefficient of Utilization**



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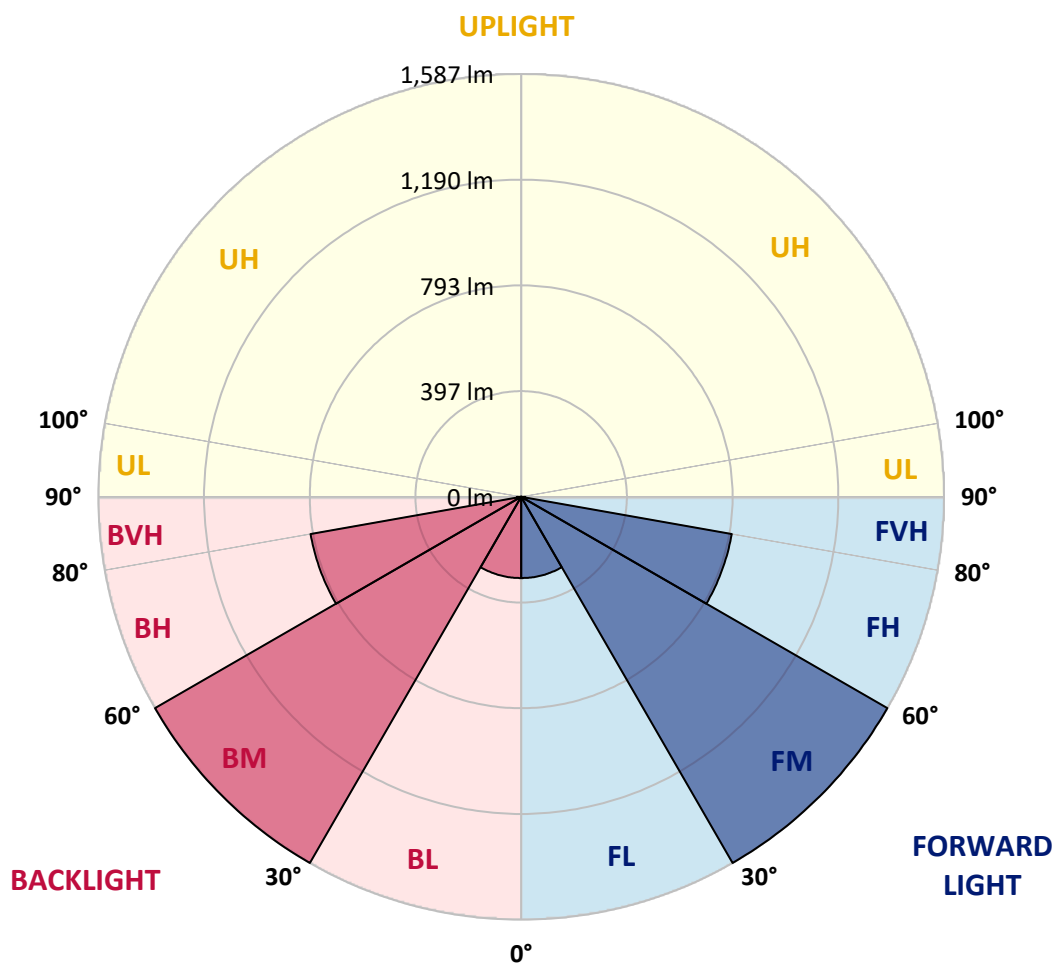
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 304.9  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 1586.8 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 802.5  | 14.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 15.5   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 304.9  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1586.8 | 29.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 802.5  | 14.8      | B2/1000                 |      | G1/1800 |
| BVH  | (80°-90°)   | 15.5   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  |
| 2.5°  | 613.8  | 614.3  | 614.8  | 614.3  | 614.8  | 614.0  | 613.5  | 614.3  | 613.5  | 612.7  | 613.3  |
| 5°    | 619.1  | 619.3  | 619.3  | 618.6  | 619.3  | 618.8  | 618.1  | 619.1  | 618.3  | 617.6  | 618.1  |
| 7.5°  | 628.0  | 629.0  | 628.2  | 627.5  | 628.0  | 627.5  | 627.0  | 627.2  | 627.0  | 626.1  | 626.5  |
| 10°   | 639.9  | 640.7  | 640.2  | 639.9  | 640.4  | 640.2  | 639.7  | 639.3  | 639.7  | 638.8  | 638.8  |
| 12.5° | 654.4  | 654.1  | 653.9  | 654.1  | 654.9  | 654.9  | 654.6  | 654.9  | 655.4  | 655.6  | 655.1  |
| 15°   | 668.6  | 669.1  | 669.1  | 669.1  | 670.5  | 671.9  | 672.6  | 673.1  | 674.1  | 674.4  | 673.4  |
| 17.5° | 686.3  | 686.3  | 686.1  | 686.3  | 687.8  | 689.9  | 690.6  | 691.6  | 692.6  | 693.5  | 692.1  |
| 20°   | 706.1  | 706.7  | 706.7  | 707.2  | 709.2  | 711.5  | 711.5  | 712.0  | 711.5  | 712.0  | 711.2  |
| 22.5° | 730.3  | 731.7  | 731.7  | 732.0  | 734.1  | 736.8  | 736.1  | 736.8  | 735.6  | 736.6  | 735.6  |
| 25°   | 761.7  | 764.0  | 763.5  | 763.5  | 765.1  | 766.8  | 767.0  | 768.5  | 768.3  | 769.6  | 768.8  |
| 27.5° | 797.3  | 800.8  | 801.8  | 801.6  | 802.6  | 804.3  | 804.9  | 806.6  | 805.7  | 806.6  | 806.1  |
| 30°   | 839.8  | 841.4  | 843.4  | 844.2  | 845.5  | 847.2  | 847.2  | 847.5  | 846.3  | 847.7  | 848.5  |
| 32.5° | 884.0  | 886.9  | 888.8  | 893.4  | 895.7  | 897.0  | 896.7  | 897.2  | 896.0  | 898.0  | 899.6  |
| 35°   | 942.4  | 944.5  | 947.8  | 951.3  | 954.4  | 954.1  | 953.4  | 953.6  | 953.6  | 955.3  | 956.9  |
| 37.5° | 1012.7 | 1013.2 | 1017.5 | 1022.6 | 1024.2 | 1022.6 | 1018.0 | 1017.0 | 1014.8 | 1017.0 | 1019.6 |
| 40°   | 1087.1 | 1088.9 | 1097.5 | 1100.8 | 1101.6 | 1098.8 | 1092.2 | 1088.4 | 1083.3 | 1086.1 | 1089.6 |
| 42.5° | 1165.0 | 1168.6 | 1176.5 | 1182.3 | 1184.9 | 1183.0 | 1173.9 | 1168.1 | 1161.5 | 1163.0 | 1166.6 |
| 45°   | 1251.4 | 1255.7 | 1266.8 | 1272.4 | 1277.3 | 1274.4 | 1265.6 | 1256.7 | 1246.3 | 1247.0 | 1252.6 |
| 47.5° | 1347.7 | 1352.1 | 1366.6 | 1376.0 | 1378.5 | 1378.0 | 1368.1 | 1355.9 | 1341.7 | 1341.2 | 1346.0 |
| 50°   | 1455.9 | 1460.3 | 1478.3 | 1492.7 | 1500.1 | 1499.3 | 1487.7 | 1470.4 | 1453.1 | 1453.4 | 1459.4 |
| 52.5° | 1561.5 | 1566.9 | 1585.6 | 1610.5 | 1625.0 | 1635.4 | 1628.2 | 1612.0 | 1591.0 | 1591.4 | 1597.0 |
| 55°   | 1660.5 | 1669.4 | 1690.9 | 1724.7 | 1751.6 | 1780.8 | 1789.1 | 1788.6 | 1775.9 | 1779.5 | 1785.2 |
| 57.5° | 1708.4 | 1721.6 | 1754.9 | 1808.2 | 1863.0 | 1922.4 | 1972.7 | 2010.3 | 2026.3 | 2050.4 | 2044.8 |
| 60°   | 1617.6 | 1638.7 | 1687.7 | 1766.1 | 1874.5 | 1998.3 | 2131.1 | 2260.8 | 2371.4 | 2455.0 | 2407.0 |
| 62.5° | 1324.4 | 1351.8 | 1411.3 | 1511.7 | 1675.7 | 1873.9 | 2128.0 | 2434.6 | 2768.7 | 2970.2 | 2826.3 |
| 65°   | 828.7  | 857.1  | 917.6  | 1025.2 | 1217.1 | 1463.5 | 1808.2 | 2316.4 | 2940.5 | 3244.3 | 2951.4 |
| 67.5° | 323.2  | 338.6  | 371.3  | 440.1  | 584.3  | 803.6  | 1149.6 | 1726.2 | 2472.7 | 2739.0 | 2426.7 |
| 70°   | 161.9  | 163.5  | 169.5  | 182.3  | 213.2  | 276.9  | 421.4  | 800.3  | 1418.1 | 1712.8 | 1367.1 |
| 72.5° | 117.0  | 117.2  | 120.3  | 125.9  | 135.7  | 150.0  | 177.4  | 244.9  | 461.1  | 704.8  | 432.3  |
| 75°   | 89.6   | 90.6   | 92.4   | 95.4   | 100.8  | 107.9  | 117.7  | 141.2  | 174.9  | 202.9  | 170.5  |
| 77.5° | 69.0   | 71.1   | 72.3   | 75.1   | 78.5   | 83.3   | 86.0   | 94.9   | 110.4  | 116.2  | 114.5  |
| 80°   | 52.6   | 54.3   | 57.1   | 59.4   | 61.7   | 63.9   | 62.9   | 67.0   | 75.1   | 80.0   | 77.4   |
| 82.5° | 33.6   | 35.5   | 43.7   | 45.7   | 46.7   | 48.2   | 46.4   | 46.7   | 50.2   | 53.3   | 50.2   |
| 85°   | 21.6   | 22.8   | 27.6   | 30.2   | 30.5   | 31.5   | 30.7   | 28.9   | 28.9   | 26.4   | 29.7   |
| 87.5° | 9.9    | 10.1   | 12.5   | 14.7   | 15.2   | 13.7   | 13.5   | 13.0   | 10.4   | 9.9    | 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°    | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  | 613.3  |
| 2.5°  | 613.0  | 613.5  | 613.8  | 614.5  | 614.8  | 614.8  | 615.0  | 615.5  |
| 5°    | 617.8  | 618.6  | 618.8  | 619.8  | 620.1  | 619.8  | 620.3  | 620.6  |
| 7.5°  | 626.5  | 627.7  | 628.2  | 629.2  | 628.5  | 629.5  | 629.7  | 629.7  |
| 10°   | 639.1  | 640.4  | 640.7  | 641.7  | 641.2  | 641.7  | 641.7  | 641.2  |
| 12.5° | 655.9  | 656.1  | 655.4  | 656.1  | 655.1  | 655.6  | 654.9  | 654.4  |
| 15°   | 674.4  | 673.6  | 671.9  | 671.9  | 670.3  | 670.5  | 670.3  | 670.1  |
| 17.5° | 692.4  | 690.9  | 689.7  | 689.2  | 687.8  | 687.6  | 686.8  | 686.8  |
| 20°   | 712.2  | 711.5  | 710.7  | 709.7  | 708.4  | 707.2  | 706.9  | 707.4  |
| 22.5° | 736.1  | 735.8  | 735.8  | 735.3  | 733.6  | 732.2  | 731.5  | 731.5  |
| 25°   | 768.0  | 765.8  | 765.8  | 765.5  | 764.8  | 764.0  | 762.5  | 763.2  |
| 27.5° | 804.1  | 802.8  | 803.8  | 803.6  | 802.8  | 802.8  | 801.8  | 801.8  |
| 30°   | 848.5  | 848.0  | 849.6  | 848.2  | 845.8  | 845.5  | 844.4  | 843.2  |
| 32.5° | 899.8  | 899.3  | 901.5  | 900.1  | 896.0  | 893.8  | 891.7  | 890.7  |
| 35°   | 956.9  | 957.2  | 959.9  | 958.9  | 954.4  | 952.9  | 949.3  | 948.8  |
| 37.5° | 1019.4 | 1023.4 | 1028.3 | 1029.2 | 1025.4 | 1024.4 | 1020.6 | 1018.6 |
| 40°   | 1092.7 | 1098.0 | 1105.4 | 1107.1 | 1103.2 | 1102.3 | 1097.0 | 1094.3 |
| 42.5° | 1170.9 | 1180.0 | 1189.2 | 1190.7 | 1186.6 | 1182.5 | 1177.5 | 1175.5 |
| 45°   | 1258.2 | 1269.1 | 1281.0 | 1284.1 | 1278.0 | 1273.2 | 1266.5 | 1266.5 |
| 47.5° | 1356.1 | 1369.8 | 1383.3 | 1391.7 | 1386.1 | 1381.1 | 1373.2 | 1368.1 |
| 50°   | 1471.9 | 1490.6 | 1508.2 | 1516.8 | 1507.9 | 1498.3 | 1484.6 | 1480.0 |
| 52.5° | 1617.1 | 1637.4 | 1652.6 | 1648.1 | 1634.4 | 1620.9 | 1605.9 | 1599.8 |
| 55°   | 1802.3 | 1809.2 | 1809.2 | 1792.0 | 1764.6 | 1742.0 | 1718.4 | 1710.5 |
| 57.5° | 2034.1 | 2007.7 | 1967.1 | 1915.6 | 1850.8 | 1794.5 | 1756.4 | 1738.4 |
| 60°   | 2306.4 | 2179.6 | 2036.2 | 1895.3 | 1779.5 | 1684.1 | 1627.5 | 1601.6 |
| 62.5° | 2487.9 | 2156.0 | 1868.6 | 1642.4 | 1476.0 | 1360.9 | 1282.8 | 1252.4 |
| 65°   | 2325.3 | 1798.0 | 1413.3 | 1142.7 | 961.3  | 844.2  | 766.8  | 738.4  |
| 67.5° | 1703.1 | 1126.7 | 752.6  | 539.4  | 395.2  | 315.3  | 283.6  | 270.4  |
| 70°   | 764.6  | 396.7  | 243.2  | 189.9  | 163.7  | 150.3  | 144.4  | 142.4  |
| 72.5° | 230.5  | 166.7  | 140.7  | 126.9  | 116.5  | 109.9  | 105.1  | 104.5  |
| 75°   | 139.1  | 115.7  | 102.8  | 94.7   | 88.1   | 82.8   | 80.2   | 79.5   |
| 77.5° | 97.2   | 85.0   | 79.0   | 73.1   | 68.0   | 63.9   | 61.7   | 59.9   |
| 80°   | 68.2   | 62.4   | 59.6   | 56.4   | 53.1   | 49.2   | 45.9   | 44.4   |
| 82.5° | 45.7   | 44.4   | 44.4   | 42.4   | 39.6   | 36.0   | 29.5   | 27.9   |
| 85°   | 29.5   | 29.2   | 29.7   | 28.9   | 26.9   | 23.1   | 19.0   | 18.0   |
| 87.5° | 13.7   | 13.9   | 15.4   | 15.2   | 14.7   | 12.2   | 9.6    | 9.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)