

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: P200068

Luminaire Tested: **GAP-AF-02-LED-U-5NQ-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P200068  
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: GAP-AF-02-LED-U-5NQ-600  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 8636.8 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 66  
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

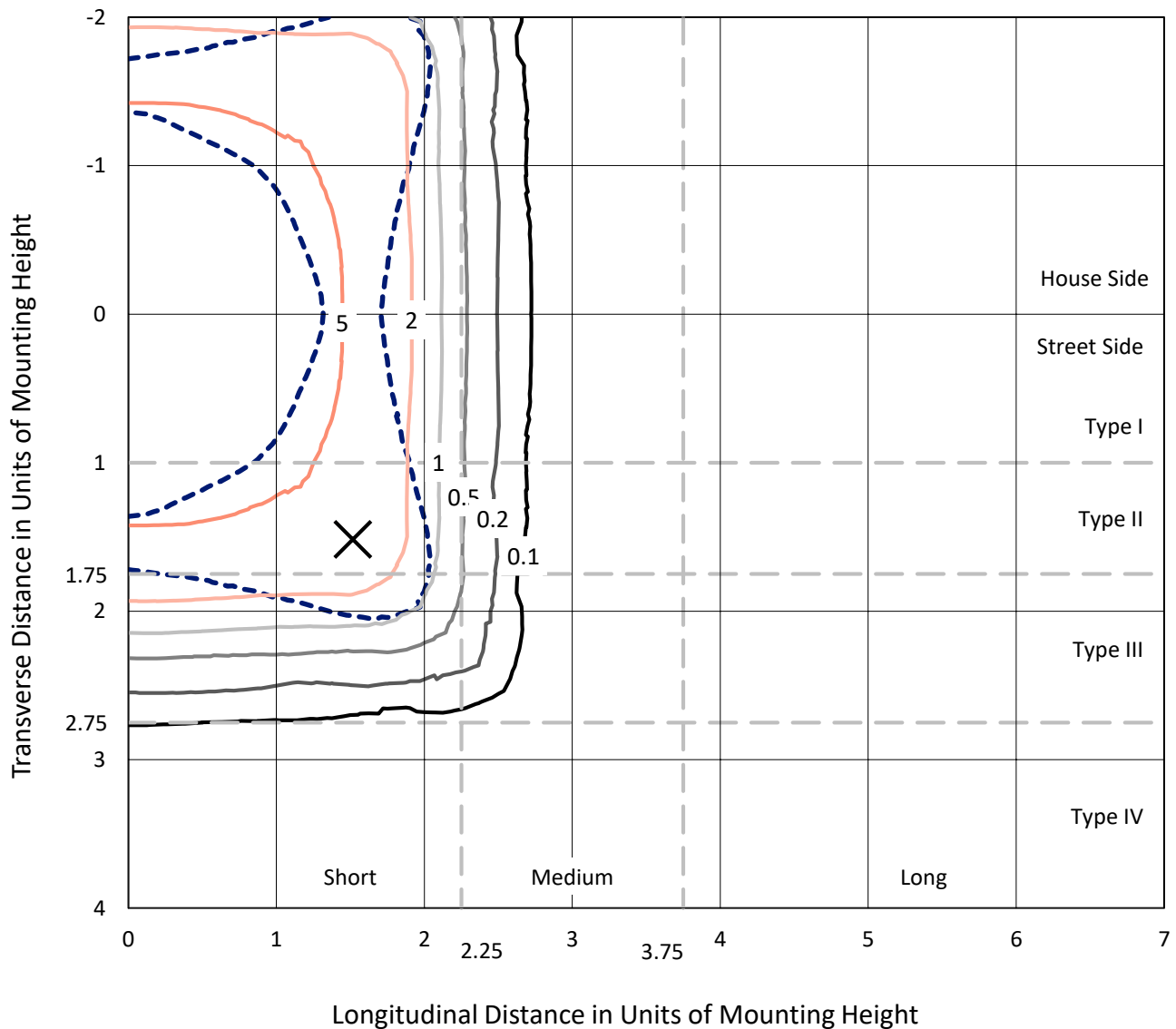


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

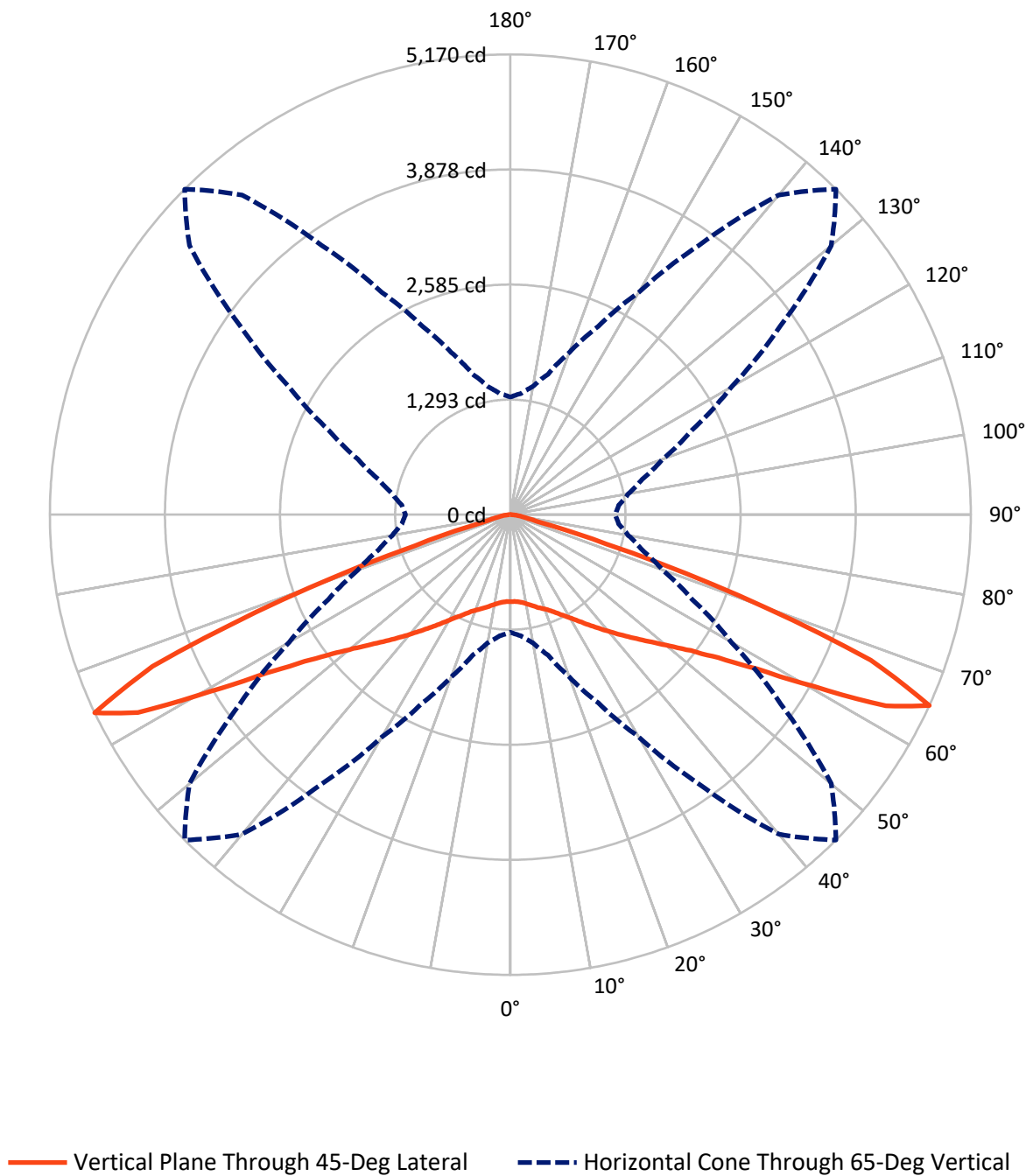


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc  
Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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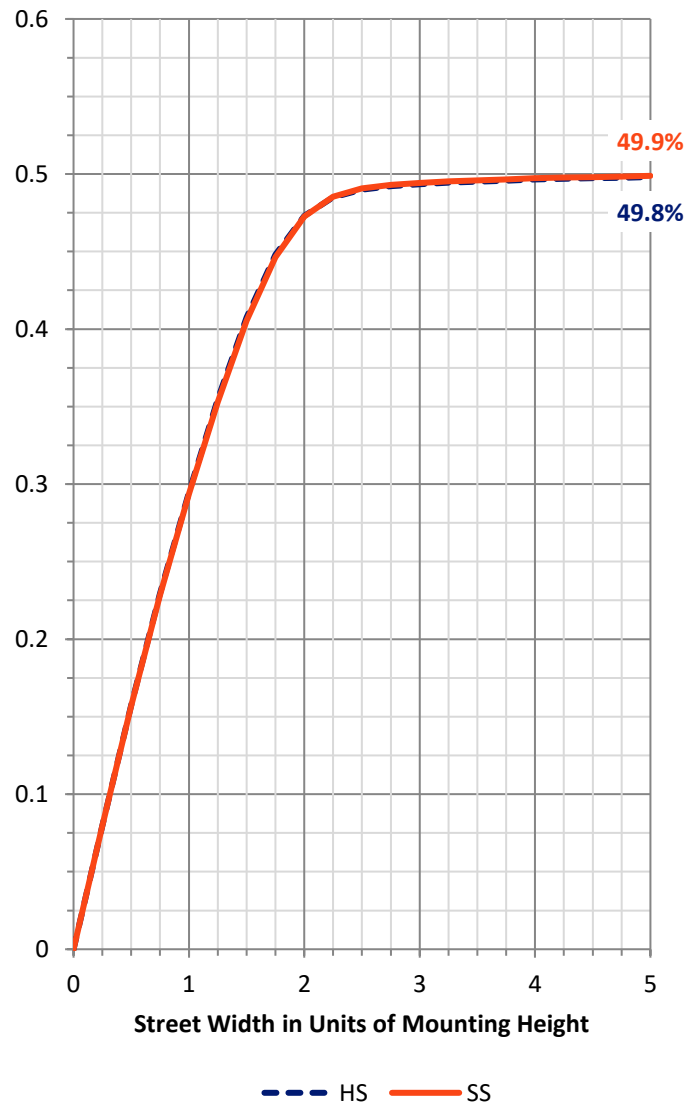
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4318.4   | 0.0    | 4318.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4318.4   | 0.0    | 4318.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8636.8   | 0.0    | 8636.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 95.3   | 1.1       |
| 10°-20°   | 305.5  | 3.5       |
| 20°-30°   | 571.2  | 6.6       |
| 30°-40°   | 966.1  | 11.2      |
| 40°-50°   | 1579.6 | 18.3      |
| 50°-60°   | 2511.8 | 29.1      |
| 60°-70°   | 2270.5 | 26.3      |
| 70°-80°   | 287.3  | 3.3       |
| 80°-90°   | 49.4   | 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°    | 8636.8 | 100.0     |
| 0°-180°   | 8636.8 | 100.0     |

**Coefficient of Utilization**



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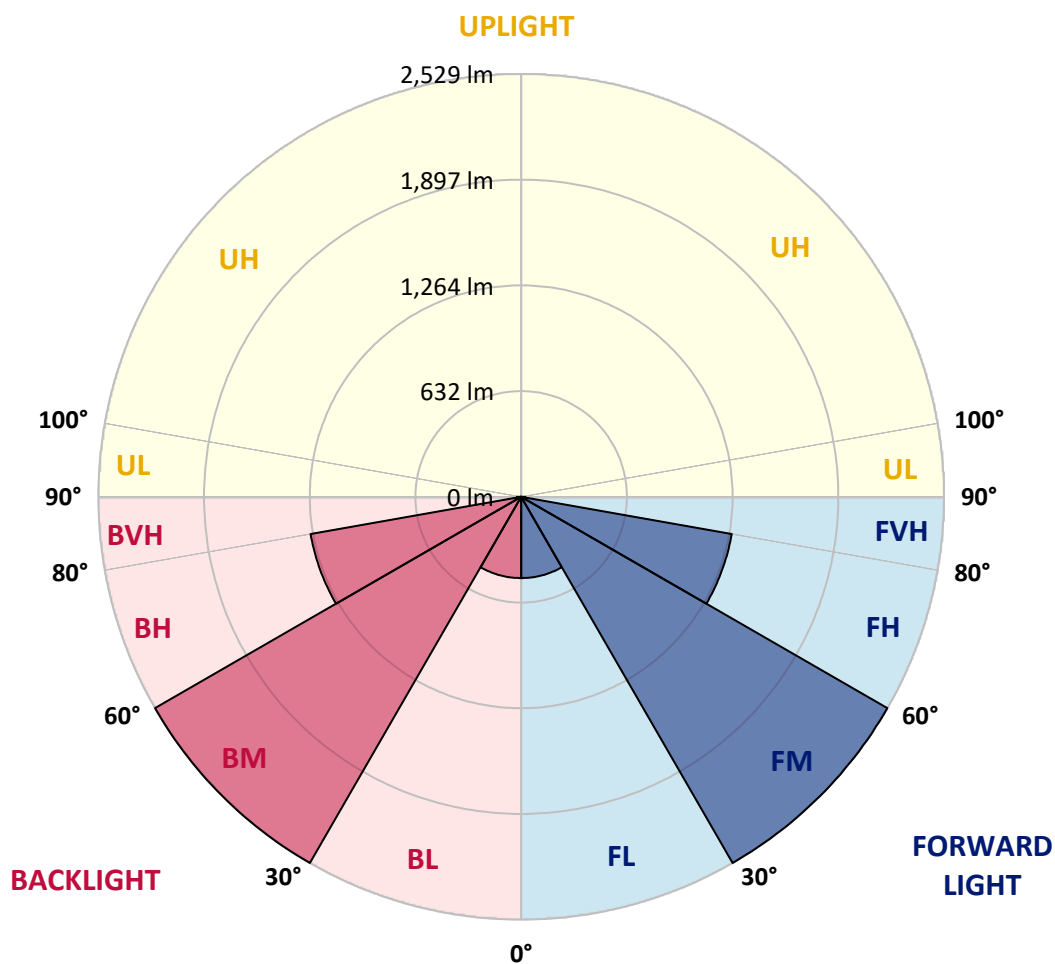
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 486.0  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2528.8 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 1278.9 | 14.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.7   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 486.0  | 5.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2528.8 | 29.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1278.9 | 14.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 24.7   | 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°    | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  |
| 2.5°  | 978.0  | 978.9  | 979.7  | 978.9  | 979.7  | 978.5  | 977.6  | 978.9  | 977.6  | 976.4  | 977.2  |
| 5°    | 986.5  | 986.9  | 986.9  | 985.7  | 986.9  | 986.1  | 984.9  | 986.5  | 985.3  | 984.2  | 984.9  |
| 7.5°  | 1000.8 | 1002.3 | 1001.2 | 999.9  | 1000.8 | 999.9  | 999.1  | 999.5  | 999.1  | 997.9  | 998.3  |
| 10°   | 1019.7 | 1020.9 | 1020.1 | 1019.7 | 1020.5 | 1020.1 | 1019.4 | 1019.0 | 1019.4 | 1018.1 | 1018.1 |
| 12.5° | 1042.8 | 1042.4 | 1042.0 | 1042.4 | 1043.6 | 1043.6 | 1043.2 | 1043.6 | 1044.4 | 1044.8 | 1044.0 |
| 15°   | 1065.4 | 1066.2 | 1066.2 | 1066.2 | 1068.7 | 1070.7 | 1072.0 | 1072.7 | 1074.3 | 1074.7 | 1073.1 |
| 17.5° | 1093.7 | 1093.7 | 1093.3 | 1093.7 | 1096.2 | 1099.4 | 1100.6 | 1102.2 | 1103.9 | 1105.1 | 1103.0 |
| 20°   | 1125.3 | 1126.1 | 1126.1 | 1126.9 | 1130.2 | 1133.8 | 1133.8 | 1134.6 | 1133.8 | 1134.6 | 1133.4 |
| 22.5° | 1163.7 | 1166.2 | 1166.2 | 1166.6 | 1169.7 | 1174.2 | 1173.0 | 1174.2 | 1172.2 | 1173.8 | 1172.2 |
| 25°   | 1213.8 | 1217.5 | 1216.7 | 1216.7 | 1219.2 | 1222.0 | 1222.4 | 1224.8 | 1224.4 | 1226.4 | 1225.2 |
| 27.5° | 1270.5 | 1276.1 | 1277.8 | 1277.4 | 1279.0 | 1281.9 | 1282.7 | 1285.4 | 1283.9 | 1285.4 | 1284.6 |
| 30°   | 1338.4 | 1340.9 | 1344.2 | 1345.4 | 1347.3 | 1350.2 | 1350.2 | 1350.6 | 1348.6 | 1351.0 | 1352.2 |
| 32.5° | 1408.8 | 1413.3 | 1416.6 | 1423.8 | 1427.4 | 1429.5 | 1429.1 | 1429.9 | 1427.8 | 1431.1 | 1433.6 |
| 35°   | 1501.9 | 1505.2 | 1510.4 | 1516.0 | 1520.9 | 1520.5 | 1519.3 | 1519.7 | 1519.7 | 1522.6 | 1524.9 |
| 37.5° | 1613.9 | 1614.7 | 1621.6 | 1629.7 | 1632.1 | 1629.7 | 1622.4 | 1620.8 | 1617.2 | 1620.8 | 1624.9 |
| 40°   | 1732.5 | 1735.2 | 1749.0 | 1754.3 | 1755.5 | 1751.1 | 1740.6 | 1734.5 | 1726.3 | 1730.8 | 1736.5 |
| 42.5° | 1856.7 | 1862.3 | 1874.9 | 1884.2 | 1888.2 | 1885.3 | 1870.8 | 1861.5 | 1850.9 | 1853.4 | 1859.0 |
| 45°   | 1994.1 | 2001.0 | 2018.8 | 2027.7 | 2035.4 | 2031.0 | 2016.8 | 2002.6 | 1986.1 | 1987.3 | 1996.2 |
| 47.5° | 2147.9 | 2154.7 | 2177.8 | 2192.8 | 2196.8 | 2196.0 | 2180.2 | 2160.8 | 2138.2 | 2137.4 | 2145.0 |
| 50°   | 2320.2 | 2327.0 | 2355.8 | 2378.9 | 2390.5 | 2389.3 | 2370.7 | 2343.3 | 2315.8 | 2316.2 | 2325.9 |
| 52.5° | 2488.4 | 2496.9 | 2526.9 | 2566.5 | 2589.6 | 2606.2 | 2594.8 | 2568.9 | 2535.4 | 2536.2 | 2545.1 |
| 55°   | 2646.2 | 2660.4 | 2694.8 | 2748.6 | 2791.4 | 2838.0 | 2851.3 | 2850.5 | 2830.2 | 2835.9 | 2844.8 |
| 57.5° | 2722.7 | 2743.7 | 2796.6 | 2881.7 | 2969.0 | 3063.6 | 3143.7 | 3203.6 | 3229.0 | 3267.5 | 3258.6 |
| 60°   | 2577.8 | 2611.4 | 2689.4 | 2814.4 | 2987.2 | 3184.5 | 3396.1 | 3602.8 | 3779.2 | 3912.3 | 3835.8 |
| 62.5° | 2110.7 | 2154.3 | 2249.0 | 2409.2 | 2670.4 | 2986.4 | 3391.3 | 3879.8 | 4412.2 | 4733.4 | 4504.1 |
| 65°   | 1320.6 | 1365.9 | 1462.2 | 1633.8 | 1939.5 | 2332.3 | 2881.7 | 3691.4 | 4686.0 | 5170.2 | 4703.4 |
| 67.5° | 515.0  | 539.6  | 591.8  | 701.4  | 931.2  | 1280.6 | 1831.9 | 2750.9 | 3940.6 | 4364.9 | 3867.4 |
| 70°   | 258.1  | 260.4  | 270.2  | 290.4  | 339.8  | 441.3  | 671.5  | 1275.4 | 2259.9 | 2729.5 | 2178.6 |
| 72.5° | 186.5  | 186.9  | 191.7  | 200.6  | 216.4  | 239.1  | 282.7  | 390.4  | 735.0  | 1123.3 | 688.9  |
| 75°   | 142.8  | 144.4  | 147.2  | 152.1  | 160.6  | 172.0  | 187.7  | 224.9  | 278.7  | 323.2  | 271.8  |
| 77.5° | 110.1  | 113.2  | 115.3  | 119.7  | 125.0  | 132.7  | 137.1  | 151.3  | 175.9  | 185.3  | 182.4  |
| 80°   | 83.8   | 86.5   | 91.0   | 94.6   | 98.3   | 101.9  | 100.4  | 106.8  | 119.7  | 127.5  | 123.4  |
| 82.5° | 53.4   | 56.7   | 69.6   | 72.8   | 74.5   | 76.8   | 74.1   | 74.5   | 80.1   | 84.9   | 80.1   |
| 85°   | 34.4   | 36.4   | 44.1   | 48.2   | 48.6   | 50.1   | 48.9   | 46.1   | 46.1   | 42.0   | 47.4   |
| 87.5° | 15.8   | 16.2   | 19.8   | 23.4   | 24.2   | 21.9   | 21.5   | 20.7   | 16.6   | 15.8   | 17.0   |
| 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°    | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  | 977.2  |
| 2.5°  | 976.8  | 977.6  | 978.0  | 979.3  | 979.7  | 979.7  | 980.1  | 980.9  |
| 5°    | 984.5  | 985.7  | 986.1  | 987.8  | 988.2  | 987.8  | 988.6  | 989.0  |
| 7.5°  | 998.3  | 1000.3 | 1001.2 | 1002.7 | 1001.6 | 1003.1 | 1003.5 | 1003.5 |
| 10°   | 1018.6 | 1020.5 | 1020.9 | 1022.5 | 1021.7 | 1022.5 | 1022.5 | 1021.7 |
| 12.5° | 1045.3 | 1045.7 | 1044.4 | 1045.7 | 1044.0 | 1044.8 | 1043.6 | 1042.8 |
| 15°   | 1074.7 | 1073.5 | 1070.7 | 1070.7 | 1068.3 | 1068.7 | 1068.3 | 1067.9 |
| 17.5° | 1103.5 | 1101.0 | 1099.1 | 1098.2 | 1096.2 | 1095.8 | 1094.6 | 1094.6 |
| 20°   | 1135.0 | 1133.8 | 1132.6 | 1131.0 | 1128.9 | 1126.9 | 1126.5 | 1127.3 |
| 22.5° | 1173.0 | 1172.6 | 1172.6 | 1171.8 | 1169.0 | 1167.0 | 1165.8 | 1165.8 |
| 25°   | 1224.0 | 1220.4 | 1220.4 | 1220.0 | 1218.7 | 1217.5 | 1215.1 | 1216.3 |
| 27.5° | 1281.5 | 1279.4 | 1281.0 | 1280.6 | 1279.4 | 1279.4 | 1277.8 | 1277.8 |
| 30°   | 1352.2 | 1351.4 | 1353.9 | 1351.8 | 1347.7 | 1347.3 | 1345.8 | 1343.7 |
| 32.5° | 1434.0 | 1433.2 | 1436.7 | 1434.4 | 1427.8 | 1424.3 | 1421.0 | 1419.3 |
| 35°   | 1524.9 | 1525.3 | 1529.8 | 1528.2 | 1520.9 | 1518.5 | 1512.8 | 1512.0 |
| 37.5° | 1624.4 | 1630.9 | 1638.6 | 1640.2 | 1634.2 | 1632.5 | 1626.5 | 1623.2 |
| 40°   | 1741.4 | 1749.9 | 1761.5 | 1764.4 | 1757.9 | 1756.7 | 1748.2 | 1743.7 |
| 42.5° | 1866.0 | 1880.5 | 1895.0 | 1897.5 | 1891.0 | 1884.6 | 1876.4 | 1873.2 |
| 45°   | 2005.1 | 2022.5 | 2041.5 | 2046.3 | 2036.6 | 2028.9 | 2018.4 | 2018.4 |
| 47.5° | 2161.2 | 2183.1 | 2204.5 | 2217.9 | 2209.0 | 2200.9 | 2188.3 | 2180.2 |
| 50°   | 2345.6 | 2375.6 | 2403.5 | 2417.2 | 2403.1 | 2387.8 | 2365.9 | 2358.6 |
| 52.5° | 2577.0 | 2609.3 | 2633.7 | 2626.3 | 2604.5 | 2583.1 | 2559.2 | 2549.5 |
| 55°   | 2872.3 | 2883.2 | 2883.2 | 2855.8 | 2812.0 | 2776.1 | 2738.4 | 2725.9 |
| 57.5° | 3241.6 | 3199.6 | 3134.8 | 3052.7 | 2949.6 | 2859.8 | 2799.1 | 2770.4 |
| 60°   | 3675.7 | 3473.4 | 3244.8 | 3020.4 | 2835.9 | 2683.8 | 2593.6 | 2552.4 |
| 62.5° | 3964.9 | 3435.8 | 2977.9 | 2617.5 | 2352.2 | 2168.9 | 2044.3 | 1995.8 |
| 65°   | 3705.5 | 2865.4 | 2252.2 | 1821.1 | 1531.8 | 1345.4 | 1222.0 | 1176.7 |
| 67.5° | 2714.2 | 1795.6 | 1199.3 | 859.6  | 629.8  | 502.4  | 451.8  | 430.8  |
| 70°   | 1218.3 | 632.2  | 387.5  | 302.6  | 260.9  | 239.5  | 230.2  | 226.9  |
| 72.5° | 367.2  | 265.8  | 224.1  | 202.2  | 185.7  | 175.1  | 167.5  | 166.6  |
| 75°   | 221.7  | 184.4  | 163.8  | 150.9  | 140.3  | 131.9  | 127.9  | 126.6  |
| 77.5° | 154.9  | 135.5  | 125.8  | 116.5  | 108.4  | 101.9  | 98.3   | 95.4   |
| 80°   | 108.8  | 99.5   | 95.0   | 89.8   | 84.5   | 78.5   | 73.2   | 70.8   |
| 82.5° | 72.8   | 70.8   | 70.8   | 67.5   | 63.1   | 57.4   | 47.0   | 44.5   |
| 85°   | 47.0   | 46.5   | 47.4   | 46.1   | 42.9   | 36.8   | 30.4   | 28.7   |
| 87.5° | 21.9   | 22.2   | 24.7   | 24.2   | 23.4   | 19.4   | 15.3   | 14.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)