

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: P268410

Luminaire Tested: **GAN-AF-04-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-5WQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14477.8 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 129  
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

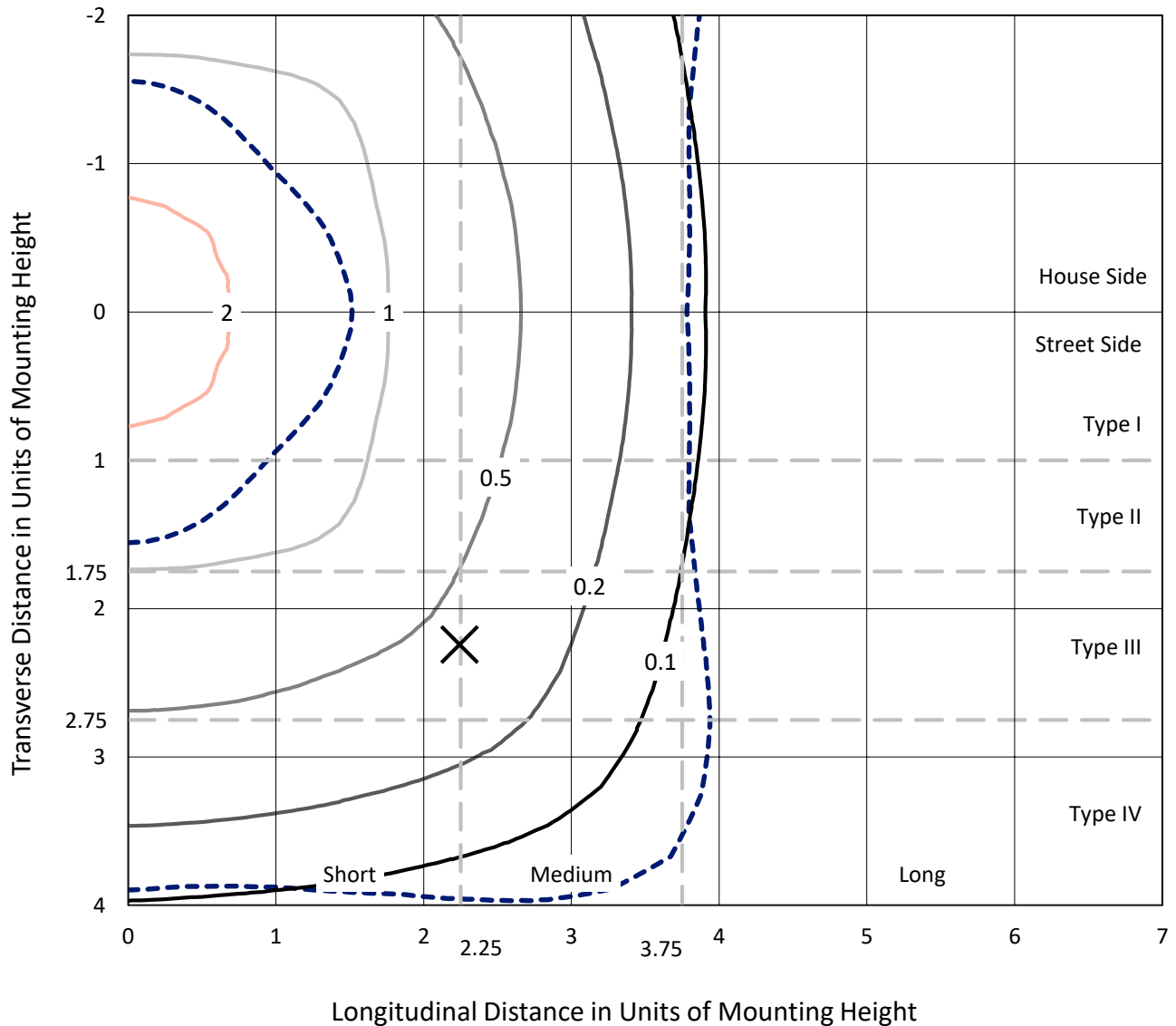


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

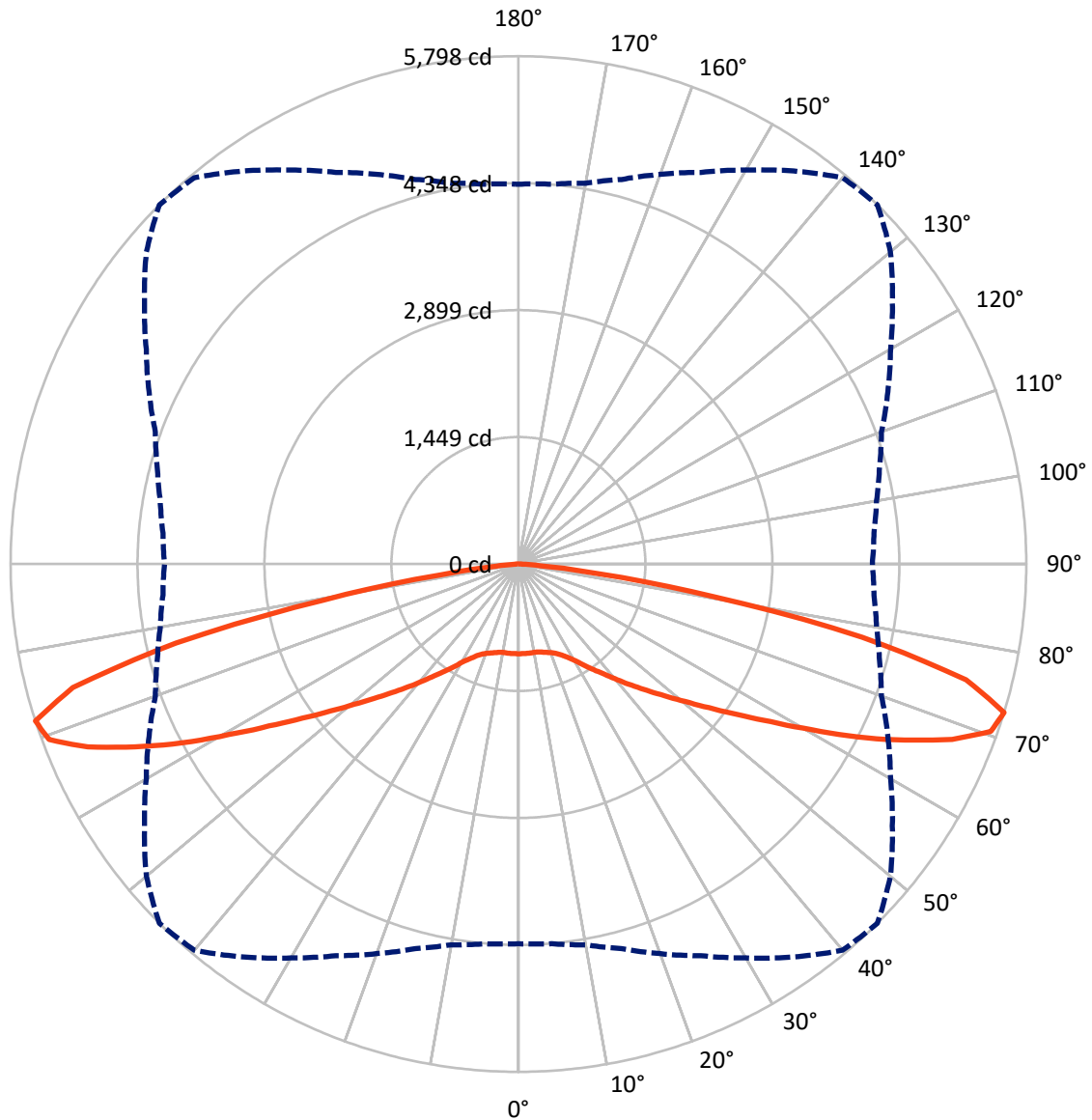


Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7238.9   | 0.0    | 7238.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7238.9   | 0.0    | 7238.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14477.8  | 0.0    | 14477.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 97.9    | 0.7       |
| 10°-20°   | 297.3   | 2.1       |
| 20°-30°   | 543.3   | 3.8       |
| 30°-40°   | 936.8   | 6.5       |
| 40°-50°   | 1601.5  | 11.1      |
| 50°-60°   | 2595.8  | 17.9      |
| 60°-70°   | 4306.4  | 29.7      |
| 70°-80°   | 3792.9  | 26.2      |
| 80°-90°   | 305.8   | 2.1       |
| 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°    | 14477.8 | 100.0     |
| 0°-180°   | 14477.8 | 100.0     |



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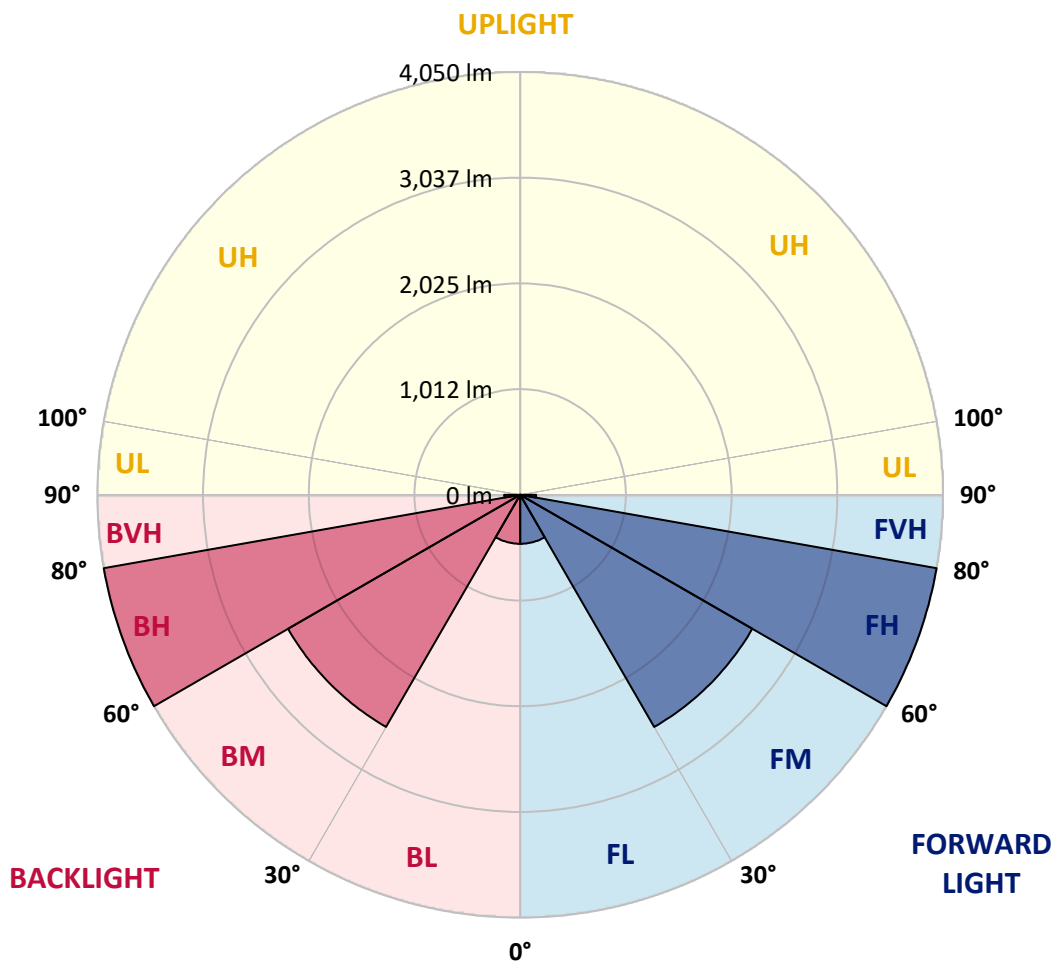
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 469.3  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 2567.1 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 4049.6 | 28.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 152.9  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 469.3  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2567.1 | 17.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4049.6 | 28.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 152.9  | 1.1       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 |
| 2.5°  | 1025.2 | 1026.0 | 1026.7 | 1026.0 | 1026.0 | 1025.2 | 1024.5 | 1025.2 | 1024.5 | 1023.3 | 1023.9 |
| 5°    | 1028.6 | 1029.8 | 1029.8 | 1028.6 | 1029.3 | 1028.6 | 1027.2 | 1027.9 | 1026.7 | 1024.5 | 1024.5 |
| 7.5°  | 1032.5 | 1033.2 | 1033.2 | 1032.0 | 1032.5 | 1031.3 | 1029.8 | 1029.3 | 1027.9 | 1025.2 | 1023.3 |
| 10°   | 1038.5 | 1039.2 | 1038.5 | 1037.3 | 1037.3 | 1035.1 | 1032.0 | 1030.5 | 1027.9 | 1023.9 | 1021.9 |
| 12.5° | 1045.2 | 1045.8 | 1045.2 | 1043.8 | 1043.2 | 1039.9 | 1037.3 | 1035.1 | 1033.2 | 1029.8 | 1026.7 |
| 15°   | 1054.5 | 1055.8 | 1054.5 | 1051.8 | 1049.8 | 1047.2 | 1045.8 | 1046.4 | 1047.2 | 1044.5 | 1041.1 |
| 17.5° | 1071.8 | 1072.3 | 1070.4 | 1064.4 | 1061.7 | 1059.1 | 1059.1 | 1060.4 | 1062.4 | 1061.1 | 1057.8 |
| 20°   | 1103.6 | 1101.6 | 1097.0 | 1089.6 | 1086.3 | 1081.6 | 1081.0 | 1081.6 | 1081.6 | 1081.0 | 1078.3 |
| 22.5° | 1143.5 | 1142.1 | 1136.1 | 1126.8 | 1122.3 | 1119.6 | 1115.5 | 1112.2 | 1111.7 | 1109.5 | 1106.9 |
| 25°   | 1191.2 | 1190.7 | 1183.2 | 1175.3 | 1172.0 | 1168.7 | 1165.5 | 1160.7 | 1156.7 | 1152.0 | 1149.4 |
| 27.5° | 1252.3 | 1249.7 | 1239.1 | 1235.1 | 1230.5 | 1228.4 | 1223.9 | 1218.6 | 1215.1 | 1209.2 | 1205.9 |
| 30°   | 1319.4 | 1319.4 | 1310.7 | 1309.5 | 1309.5 | 1304.8 | 1299.5 | 1290.1 | 1284.2 | 1278.3 | 1276.2 |
| 32.5° | 1386.4 | 1387.2 | 1378.4 | 1381.1 | 1383.2 | 1386.4 | 1387.8 | 1384.5 | 1380.5 | 1379.8 | 1375.8 |
| 35°   | 1483.5 | 1480.8 | 1472.1 | 1474.2 | 1473.5 | 1472.9 | 1472.9 | 1480.0 | 1481.5 | 1482.7 | 1474.7 |
| 37.5° | 1603.7 | 1603.7 | 1595.0 | 1595.0 | 1591.0 | 1587.0 | 1581.7 | 1586.3 | 1593.7 | 1595.7 | 1590.3 |
| 40°   | 1741.1 | 1745.8 | 1735.0 | 1734.4 | 1735.7 | 1723.2 | 1717.2 | 1724.4 | 1729.1 | 1737.1 | 1731.2 |
| 42.5° | 1903.1 | 1899.7 | 1889.1 | 1887.8 | 1880.5 | 1876.5 | 1871.2 | 1877.2 | 1884.6 | 1889.9 | 1891.8 |
| 45°   | 2058.5 | 2055.9 | 2043.9 | 2043.9 | 2036.5 | 2033.3 | 2035.9 | 2045.9 | 2049.2 | 2056.5 | 2063.8 |
| 47.5° | 2211.8 | 2208.6 | 2200.6 | 2203.9 | 2204.6 | 2210.5 | 2219.2 | 2228.4 | 2237.8 | 2247.6 | 2251.1 |
| 50°   | 2368.7 | 2369.2 | 2360.7 | 2368.7 | 2378.5 | 2395.2 | 2418.3 | 2433.7 | 2452.9 | 2465.5 | 2469.5 |
| 52.5° | 2511.3 | 2513.9 | 2523.2 | 2541.9 | 2561.7 | 2594.3 | 2634.2 | 2671.4 | 2703.3 | 2724.5 | 2723.1 |
| 55°   | 2682.7 | 2686.7 | 2709.2 | 2741.1 | 2773.6 | 2822.7 | 2881.9 | 2947.6 | 3000.7 | 3031.3 | 3012.0 |
| 57.5° | 2901.7 | 2910.4 | 2935.7 | 2978.8 | 3027.3 | 3091.1 | 3172.1 | 3271.0 | 3353.4 | 3394.4 | 3363.3 |
| 60°   | 3202.5 | 3207.8 | 3238.5 | 3286.3 | 3344.7 | 3423.7 | 3532.0 | 3664.7 | 3781.0 | 3835.5 | 3799.6 |
| 62.5° | 3599.0 | 3609.0 | 3633.6 | 3682.1 | 3741.8 | 3831.5 | 3963.6 | 4129.6 | 4274.3 | 4350.0 | 4269.0 |
| 65°   | 4072.5 | 4104.4 | 4124.9 | 4174.1 | 4229.8 | 4324.8 | 4462.9 | 4640.9 | 4796.3 | 4846.0 | 4752.5 |
| 67.5° | 4541.3 | 4569.1 | 4605.0 | 4661.5 | 4717.9 | 4824.7 | 4953.0 | 5125.5 | 5296.2 | 5341.4 | 5195.9 |
| 70°   | 4746.5 | 4762.4 | 4818.1 | 4895.3 | 5003.4 | 5129.6 | 5277.7 | 5471.5 | 5682.8 | 5719.9 | 5535.4 |
| 72.5° | 4335.4 | 4351.4 | 4413.8 | 4544.5 | 4733.2 | 4933.8 | 5192.1 | 5476.8 | 5755.8 | 5797.7 | 5543.4 |
| 75°   | 3279.0 | 3253.0 | 3345.4 | 3518.8 | 3773.1 | 4052.6 | 4413.8 | 4822.1 | 5225.3 | 5277.7 | 4974.3 |
| 77.5° | 1694.7 | 1691.2 | 1760.9 | 1976.1 | 2279.5 | 2597.7 | 2995.4 | 3456.9 | 3851.4 | 4010.8 | 3763.7 |
| 80°   | 477.4  | 482.7  | 515.9  | 622.9  | 800.1  | 1029.8 | 1340.7 | 1773.0 | 2095.7 | 2260.3 | 2122.2 |
| 82.5° | 187.2  | 201.8  | 214.4  | 234.4  | 257.6  | 291.5  | 389.1  | 579.0  | 776.9  | 928.3  | 760.3  |
| 85°   | 67.1   | 71.8   | 101.6  | 120.3  | 122.2  | 128.8  | 146.8  | 171.3  | 206.5  | 246.3  | 202.5  |
| 87.5° | 25.2   | 27.8   | 32.6   | 53.8   | 53.1   | 48.5   | 59.1   | 61.8   | 46.5   | 42.5   | 52.5   |
| 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°    | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 | 1025.2 |
| 2.5°  | 1022.6 | 1023.3 | 1023.3 | 1023.9 | 1024.5 | 1024.5 | 1026.0 | 1026.0 |
| 5°    | 1023.3 | 1023.3 | 1021.9 | 1022.6 | 1021.9 | 1021.9 | 1022.6 | 1022.6 |
| 7.5°  | 1021.9 | 1021.3 | 1019.9 | 1019.2 | 1018.0 | 1018.0 | 1018.0 | 1018.0 |
| 10°   | 1019.9 | 1019.2 | 1018.0 | 1017.3 | 1016.6 | 1016.6 | 1016.6 | 1016.6 |
| 12.5° | 1025.2 | 1023.3 | 1021.9 | 1021.3 | 1021.3 | 1021.3 | 1021.3 | 1021.3 |
| 15°   | 1039.2 | 1034.6 | 1031.3 | 1031.3 | 1032.0 | 1033.2 | 1033.2 | 1034.6 |
| 17.5° | 1056.4 | 1051.1 | 1047.9 | 1045.2 | 1046.4 | 1048.5 | 1049.8 | 1051.1 |
| 20°   | 1077.1 | 1074.5 | 1069.7 | 1067.0 | 1067.0 | 1069.7 | 1071.0 | 1071.8 |
| 22.5° | 1105.6 | 1103.6 | 1101.6 | 1098.3 | 1098.3 | 1099.6 | 1102.3 | 1102.3 |
| 25°   | 1148.2 | 1146.7 | 1145.5 | 1142.9 | 1142.1 | 1142.1 | 1143.5 | 1144.8 |
| 27.5° | 1201.3 | 1201.9 | 1200.6 | 1199.9 | 1197.9 | 1197.3 | 1199.2 | 1198.6 |
| 30°   | 1272.3 | 1275.7 | 1278.8 | 1276.2 | 1273.0 | 1270.9 | 1268.9 | 1266.3 |
| 32.5° | 1368.6 | 1364.5 | 1361.9 | 1357.2 | 1351.3 | 1346.0 | 1342.0 | 1337.3 |
| 35°   | 1459.6 | 1452.9 | 1450.3 | 1454.3 | 1453.5 | 1450.3 | 1445.6 | 1441.6 |
| 37.5° | 1571.0 | 1569.8 | 1571.0 | 1578.4 | 1577.1 | 1580.4 | 1571.0 | 1570.4 |
| 40°   | 1711.9 | 1713.2 | 1722.5 | 1731.2 | 1735.7 | 1740.3 | 1735.0 | 1729.7 |
| 42.5° | 1875.2 | 1874.6 | 1877.8 | 1889.9 | 1897.8 | 1903.1 | 1891.8 | 1890.6 |
| 45°   | 2047.9 | 2043.3 | 2045.9 | 2055.9 | 2063.8 | 2069.8 | 2057.2 | 2057.2 |
| 47.5° | 2237.8 | 2229.9 | 2221.1 | 2232.5 | 2237.0 | 2241.1 | 2231.1 | 2227.7 |
| 50°   | 2449.6 | 2433.0 | 2414.5 | 2419.0 | 2419.0 | 2417.7 | 2405.1 | 2404.5 |
| 52.5° | 2692.6 | 2662.0 | 2628.3 | 2615.5 | 2608.3 | 2600.4 | 2578.4 | 2567.7 |
| 55°   | 2972.2 | 2926.4 | 2873.3 | 2840.7 | 2823.5 | 2801.5 | 2765.1 | 2755.0 |
| 57.5° | 3298.8 | 3227.3 | 3135.5 | 3095.6 | 3057.2 | 3021.3 | 2980.8 | 2969.5 |
| 60°   | 3686.0 | 3580.5 | 3459.0 | 3385.3 | 3343.4 | 3308.8 | 3267.0 | 3265.0 |
| 62.5° | 4117.7 | 3950.9 | 3813.6 | 3747.1 | 3716.6 | 3686.0 | 3646.2 | 3651.5 |
| 65°   | 4556.6 | 4382.7 | 4253.7 | 4199.9 | 4171.4 | 4146.1 | 4106.3 | 4112.4 |
| 67.5° | 4989.5 | 4829.5 | 4688.1 | 4632.9 | 4600.9 | 4569.1 | 4533.2 | 4539.2 |
| 70°   | 5300.3 | 5101.7 | 4942.4 | 4820.1 | 4743.8 | 4657.5 | 4601.7 | 4587.7 |
| 72.5° | 5211.2 | 4905.1 | 4652.1 | 4409.8 | 4267.7 | 4152.1 | 4073.9 | 4039.9 |
| 75°   | 4510.1 | 4091.7 | 3766.4 | 3468.9 | 3301.5 | 3165.4 | 3066.5 | 3004.7 |
| 77.5° | 3349.3 | 2879.2 | 2494.8 | 2152.1 | 1881.2 | 1699.2 | 1571.0 | 1488.1 |
| 80°   | 1833.4 | 1394.4 | 1019.2 | 716.5  | 526.5  | 437.6  | 386.5  | 361.8  |
| 82.5° | 571.1  | 368.6  | 271.6  | 234.4  | 217.7  | 208.4  | 193.2  | 168.6  |
| 85°   | 181.9  | 159.4  | 148.1  | 141.5  | 134.7  | 117.6  | 80.9   | 73.8   |
| 87.5° | 70.3   | 72.4   | 71.8   | 67.7   | 69.1   | 49.8   | 39.9   | 35.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)