

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: P266651

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7027-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266651  
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-02-LED-U-5WQ-7027-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12226.3 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' 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 (A<sub>in</sub>): 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

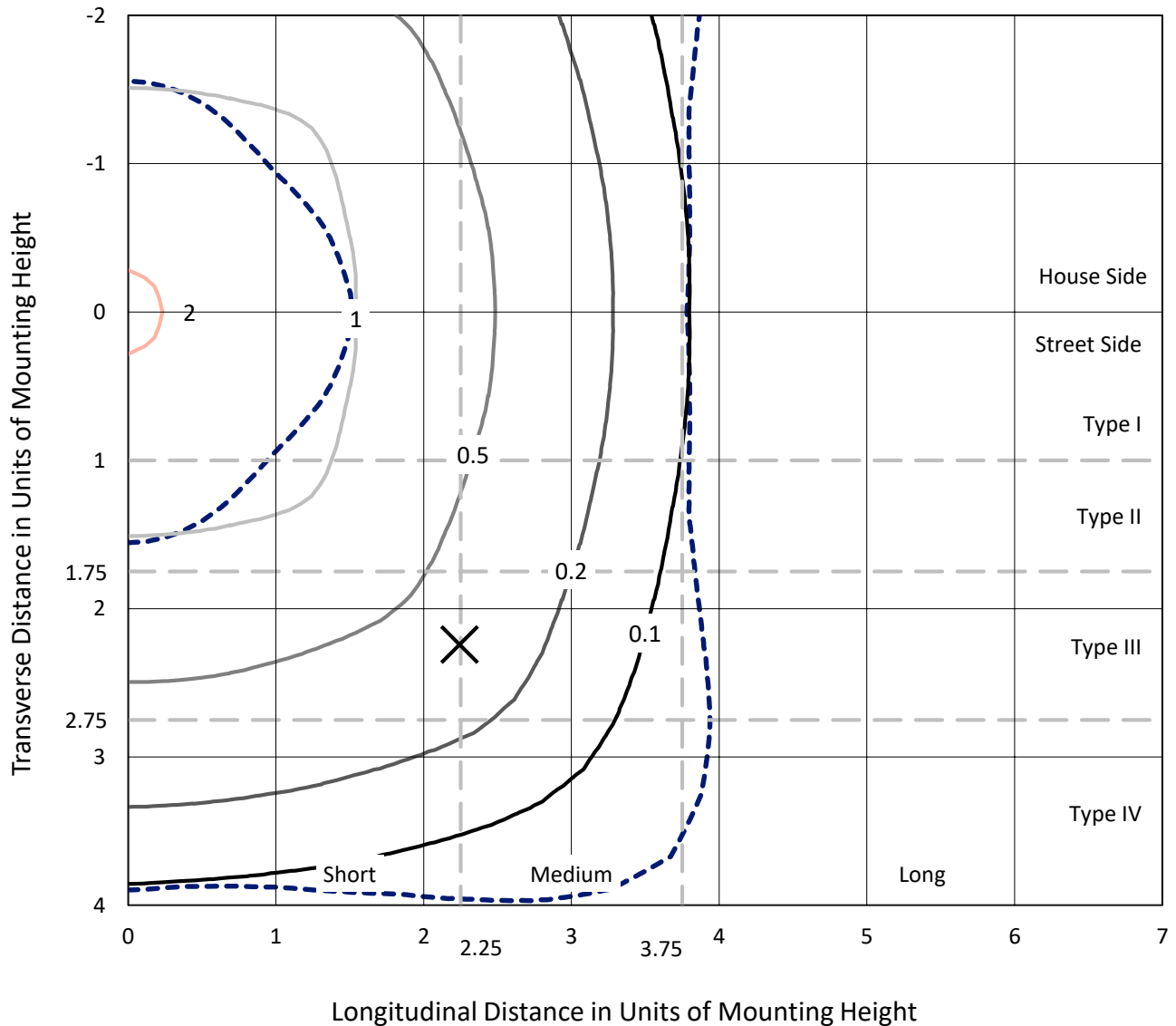


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

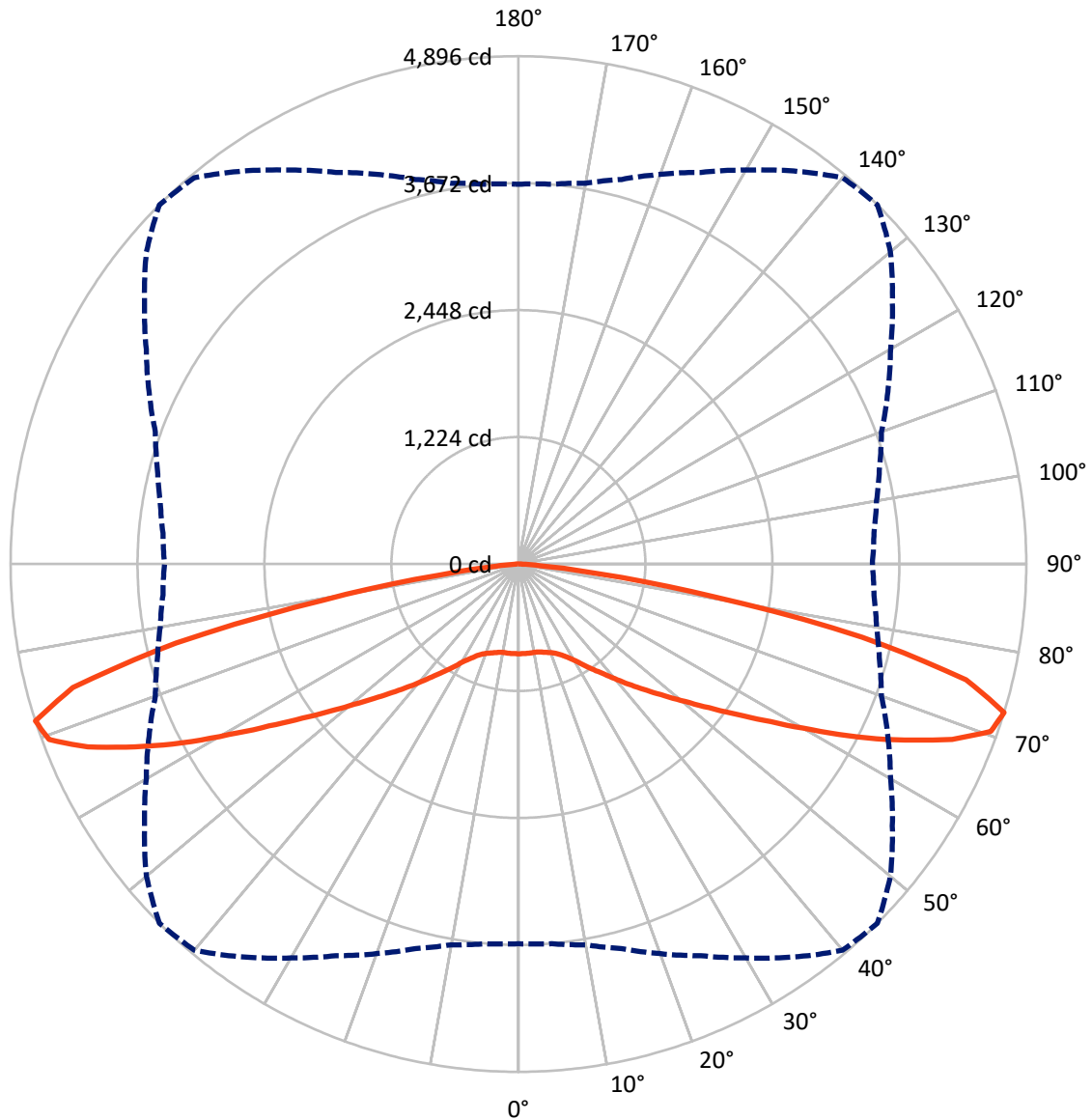


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Semi-Cutoff

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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    | 6113.2   | 0.0    | 6113.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6113.2   | 0.0    | 6113.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12226.3  | 0.0    | 12226.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 82.7    | 0.7       |
| 10°-20°   | 251.1   | 2.1       |
| 20°-30°   | 458.9   | 3.8       |
| 30°-40°   | 791.1   | 6.5       |
| 40°-50°   | 1352.4  | 11.1      |
| 50°-60°   | 2192.1  | 17.9      |
| 60°-70°   | 3636.7  | 29.7      |
| 70°-80°   | 3203.1  | 26.2      |
| 80°-90°   | 258.3   | 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°    | 12226.3 | 100.0     |
| 0°-180°   | 12226.3 | 100.0     |



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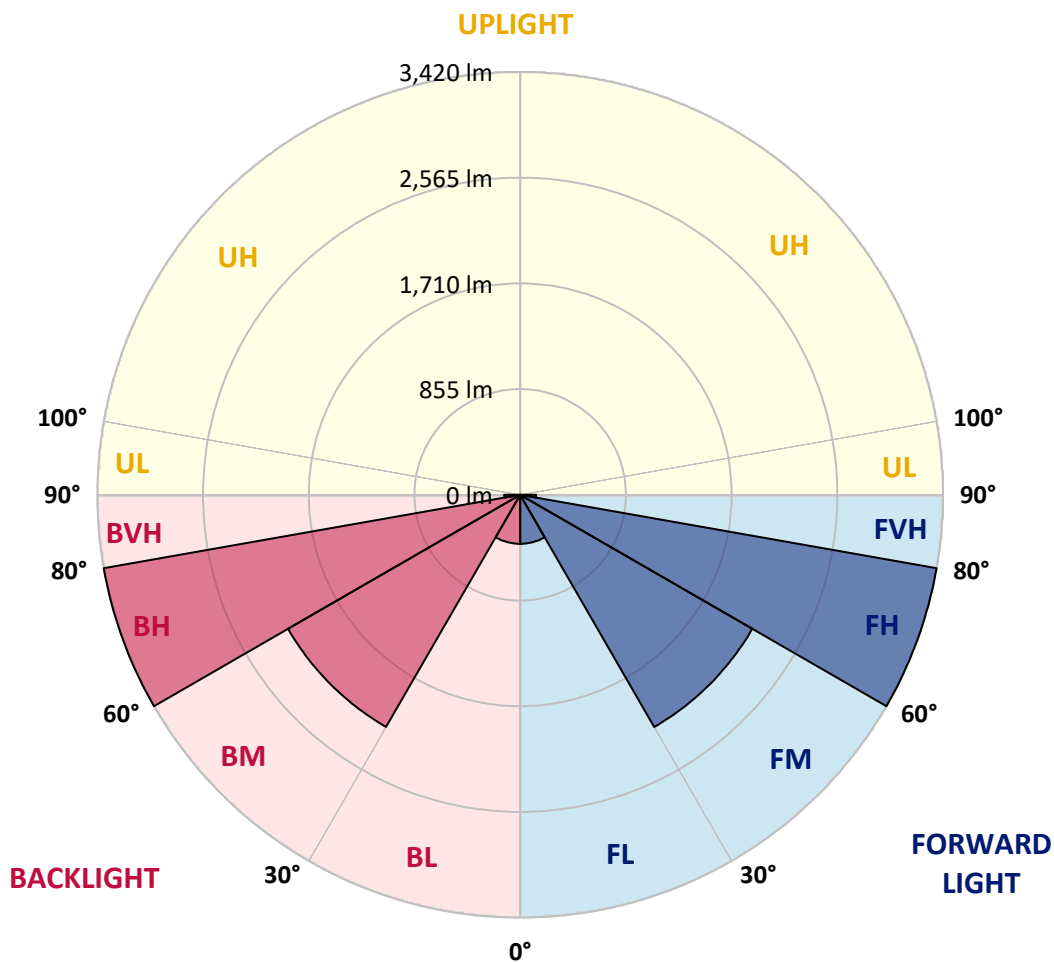
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 396.3  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 2167.9 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 3419.9 | 28.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 129.1  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 396.3  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2167.9 | 17.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 3419.9 | 28.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 129.1  | 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°    | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  |
| 2.5°  | 865.7  | 866.3  | 867.0  | 866.3  | 866.3  | 865.7  | 865.2  | 865.7  | 865.2  | 864.1  | 864.7  |
| 5°    | 868.7  | 869.6  | 869.6  | 868.7  | 869.2  | 868.7  | 867.6  | 868.0  | 867.0  | 865.2  | 865.2  |
| 7.5°  | 872.0  | 872.6  | 872.6  | 871.4  | 872.0  | 870.8  | 869.6  | 869.2  | 868.0  | 865.7  | 864.1  |
| 10°   | 877.0  | 877.6  | 877.0  | 875.8  | 875.8  | 874.2  | 871.4  | 870.3  | 868.0  | 864.7  | 863.0  |
| 12.5° | 882.7  | 883.3  | 882.7  | 881.4  | 881.0  | 878.2  | 875.8  | 874.2  | 872.6  | 869.6  | 867.0  |
| 15°   | 890.5  | 891.6  | 890.5  | 888.2  | 886.5  | 884.3  | 883.3  | 883.8  | 884.3  | 882.0  | 879.4  |
| 17.5° | 905.0  | 905.6  | 904.0  | 898.9  | 896.7  | 894.4  | 894.4  | 895.5  | 897.1  | 896.1  | 893.3  |
| 20°   | 932.0  | 930.4  | 926.4  | 920.3  | 917.3  | 913.4  | 912.9  | 913.4  | 913.4  | 912.9  | 910.7  |
| 22.5° | 965.6  | 964.5  | 959.5  | 951.7  | 947.7  | 945.5  | 942.1  | 939.3  | 938.6  | 937.0  | 934.7  |
| 25°   | 1006.0 | 1005.5 | 999.3  | 992.5  | 989.8  | 987.0  | 984.2  | 980.2  | 976.8  | 973.0  | 970.7  |
| 27.5° | 1057.6 | 1055.4 | 1046.3 | 1043.0 | 1039.1 | 1037.5 | 1033.5 | 1029.0 | 1026.3 | 1021.2 | 1018.4 |
| 30°   | 1114.3 | 1114.3 | 1106.9 | 1105.9 | 1105.9 | 1102.0 | 1097.4 | 1089.6 | 1084.6 | 1079.5 | 1077.7 |
| 32.5° | 1170.9 | 1171.4 | 1164.2 | 1166.4 | 1168.1 | 1170.9 | 1172.0 | 1169.1 | 1165.8 | 1165.2 | 1161.9 |
| 35°   | 1252.7 | 1250.5 | 1243.3 | 1245.0 | 1244.3 | 1243.8 | 1243.8 | 1249.9 | 1251.1 | 1252.1 | 1245.4 |
| 37.5° | 1354.3 | 1354.3 | 1347.0 | 1347.0 | 1343.5 | 1340.2 | 1335.7 | 1339.6 | 1345.8 | 1347.5 | 1343.1 |
| 40°   | 1470.3 | 1474.3 | 1465.2 | 1464.6 | 1465.9 | 1455.2 | 1450.1 | 1456.3 | 1460.3 | 1466.9 | 1461.9 |
| 42.5° | 1607.2 | 1604.4 | 1595.4 | 1594.2 | 1588.1 | 1584.7 | 1580.2 | 1585.2 | 1591.4 | 1595.8 | 1597.5 |
| 45°   | 1738.4 | 1736.2 | 1726.1 | 1726.1 | 1719.8 | 1717.0 | 1719.3 | 1727.7 | 1730.6 | 1736.7 | 1742.8 |
| 47.5° | 1867.8 | 1865.2 | 1858.4 | 1861.2 | 1861.6 | 1866.8 | 1874.0 | 1881.9 | 1889.8 | 1898.2 | 1901.0 |
| 50°   | 2000.3 | 2000.7 | 1993.5 | 2000.3 | 2008.6 | 2022.7 | 2042.2 | 2055.2 | 2071.4 | 2082.1 | 2085.4 |
| 52.5° | 2120.8 | 2123.1 | 2130.9 | 2146.6 | 2163.4 | 2190.8 | 2224.6 | 2256.0 | 2282.9 | 2300.7 | 2299.8 |
| 55°   | 2265.4 | 2268.8 | 2288.0 | 2314.8 | 2342.3 | 2383.8 | 2433.7 | 2489.3 | 2534.1 | 2559.9 | 2543.6 |
| 57.5° | 2450.5 | 2457.9 | 2479.1 | 2515.6 | 2556.4 | 2610.4 | 2678.7 | 2762.3 | 2831.8 | 2866.6 | 2840.3 |
| 60°   | 2704.5 | 2709.0 | 2734.8 | 2775.3 | 2824.5 | 2891.3 | 2982.7 | 3094.8 | 3192.9 | 3239.0 | 3208.7 |
| 62.5° | 3039.3 | 3047.7 | 3068.5 | 3109.5 | 3159.9 | 3235.5 | 3347.2 | 3487.4 | 3609.6 | 3673.4 | 3605.1 |
| 65°   | 3439.2 | 3466.1 | 3483.4 | 3524.9 | 3572.0 | 3652.1 | 3768.8 | 3919.1 | 4050.4 | 4092.4 | 4013.4 |
| 67.5° | 3835.0 | 3858.6 | 3888.9 | 3936.6 | 3984.3 | 4074.5 | 4182.7 | 4328.6 | 4472.7 | 4510.7 | 4388.0 |
| 70°   | 4008.2 | 4021.8 | 4068.9 | 4133.9 | 4225.3 | 4331.8 | 4456.9 | 4620.6 | 4798.9 | 4830.4 | 4674.5 |
| 72.5° | 3661.2 | 3674.6 | 3727.3 | 3837.9 | 3997.1 | 4166.5 | 4384.5 | 4625.2 | 4860.6 | 4896.0 | 4681.2 |
| 75°   | 2769.0 | 2747.1 | 2825.1 | 2971.5 | 3186.3 | 3422.4 | 3727.3 | 4072.2 | 4412.7 | 4456.9 | 4200.7 |
| 77.5° | 1431.1 | 1428.2 | 1487.1 | 1668.8 | 1925.1 | 2193.8 | 2529.5 | 2919.3 | 3252.5 | 3387.0 | 3178.5 |
| 80°   | 403.2  | 407.7  | 435.7  | 526.0  | 675.7  | 869.6  | 1132.1 | 1497.2 | 1769.8 | 1908.8 | 1792.2 |
| 82.5° | 158.1  | 170.5  | 181.1  | 197.9  | 217.6  | 246.1  | 328.6  | 488.9  | 656.1  | 784.0  | 642.1  |
| 85°   | 56.7   | 60.5   | 85.8   | 101.5  | 103.1  | 108.8  | 124.0  | 144.6  | 174.5  | 208.0  | 171.0  |
| 87.5° | 21.3   | 23.5   | 27.5   | 45.5   | 44.8   | 41.0   | 49.9   | 52.1   | 39.3   | 35.9   | 44.2   |
| 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°    | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  | 865.7  |
| 2.5°  | 863.6  | 864.1  | 864.1  | 864.7  | 865.2  | 865.2  | 866.3  | 866.3  |
| 5°    | 864.1  | 864.1  | 863.0  | 863.6  | 863.0  | 863.0  | 863.6  | 863.6  |
| 7.5°  | 863.0  | 862.5  | 861.4  | 860.8  | 859.7  | 859.7  | 859.7  | 859.7  |
| 10°   | 861.4  | 860.8  | 859.7  | 859.0  | 858.5  | 858.5  | 858.5  | 858.5  |
| 12.5° | 865.7  | 864.1  | 863.0  | 862.5  | 862.5  | 862.5  | 862.5  | 862.5  |
| 15°   | 877.6  | 873.6  | 870.8  | 870.8  | 871.4  | 872.6  | 872.6  | 873.6  |
| 17.5° | 892.1  | 887.6  | 884.9  | 882.7  | 883.8  | 885.4  | 886.5  | 887.6  |
| 20°   | 909.5  | 907.3  | 903.3  | 901.1  | 901.1  | 903.3  | 904.6  | 905.0  |
| 22.5° | 933.7  | 932.0  | 930.4  | 927.5  | 927.5  | 928.6  | 930.9  | 930.9  |
| 25°   | 969.5  | 968.5  | 967.4  | 965.0  | 964.5  | 964.5  | 965.6  | 966.8  |
| 27.5° | 1014.5 | 1014.9 | 1013.8 | 1013.3 | 1011.6 | 1011.0 | 1012.7 | 1012.2 |
| 30°   | 1074.5 | 1077.2 | 1080.0 | 1077.7 | 1075.0 | 1073.3 | 1071.6 | 1069.3 |
| 32.5° | 1155.7 | 1152.3 | 1150.1 | 1146.1 | 1141.1 | 1136.6 | 1133.3 | 1129.3 |
| 35°   | 1232.6 | 1226.9 | 1224.7 | 1228.1 | 1227.5 | 1224.7 | 1220.7 | 1217.5 |
| 37.5° | 1326.7 | 1325.5 | 1326.7 | 1332.9 | 1331.7 | 1334.6 | 1326.7 | 1326.2 |
| 40°   | 1445.6 | 1446.8 | 1454.6 | 1461.9 | 1465.9 | 1469.7 | 1465.2 | 1460.7 |
| 42.5° | 1583.6 | 1583.1 | 1585.8 | 1595.8 | 1602.7 | 1607.2 | 1597.5 | 1596.5 |
| 45°   | 1729.3 | 1725.5 | 1727.7 | 1736.2 | 1742.8 | 1747.9 | 1737.2 | 1737.2 |
| 47.5° | 1889.8 | 1883.0 | 1875.8 | 1885.3 | 1889.1 | 1892.5 | 1884.1 | 1881.3 |
| 50°   | 2068.6 | 2054.7 | 2039.0 | 2042.8 | 2042.8 | 2041.7 | 2031.1 | 2030.4 |
| 52.5° | 2273.9 | 2248.1 | 2219.5 | 2208.8 | 2202.6 | 2195.9 | 2177.4 | 2168.5 |
| 55°   | 2510.0 | 2471.2 | 2426.4 | 2399.0 | 2384.3 | 2365.9 | 2335.1 | 2326.6 |
| 57.5° | 2785.9 | 2725.3 | 2647.9 | 2614.2 | 2581.6 | 2551.5 | 2517.2 | 2507.7 |
| 60°   | 3112.7 | 3023.7 | 2921.0 | 2858.8 | 2823.5 | 2794.3 | 2759.0 | 2757.3 |
| 62.5° | 3477.2 | 3336.6 | 3220.5 | 3164.4 | 3138.6 | 3112.7 | 3079.1 | 3083.6 |
| 65°   | 3847.9 | 3700.9 | 3592.2 | 3546.8 | 3522.8 | 3501.4 | 3467.7 | 3472.8 |
| 67.5° | 4213.5 | 4078.5 | 3959.0 | 3912.4 | 3885.4 | 3858.6 | 3828.2 | 3833.3 |
| 70°   | 4476.0 | 4308.4 | 4173.7 | 4070.6 | 4006.1 | 3933.1 | 3886.1 | 3874.3 |
| 72.5° | 4400.8 | 4142.4 | 3928.6 | 3724.1 | 3604.0 | 3506.4 | 3440.2 | 3411.7 |
| 75°   | 3808.6 | 3455.4 | 3180.5 | 2929.5 | 2788.1 | 2673.1 | 2589.5 | 2537.4 |
| 77.5° | 2828.5 | 2431.4 | 2106.7 | 1817.5 | 1588.7 | 1435.0 | 1326.7 | 1256.6 |
| 80°   | 1548.3 | 1177.6 | 860.8  | 605.1  | 444.8  | 369.6  | 326.4  | 305.7  |
| 82.5° | 482.3  | 311.3  | 229.3  | 197.9  | 184.0  | 176.1  | 163.2  | 142.4  |
| 85°   | 153.6  | 134.6  | 125.0  | 119.5  | 113.8  | 99.3   | 68.5   | 62.3   |
| 87.5° | 59.5   | 61.2   | 60.5   | 57.2   | 58.3   | 42.1   | 33.6   | 29.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)