

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: P193415

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-8030-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193415  
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-07-LED-U-5WQ-8030-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 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: 23843 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 226  
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

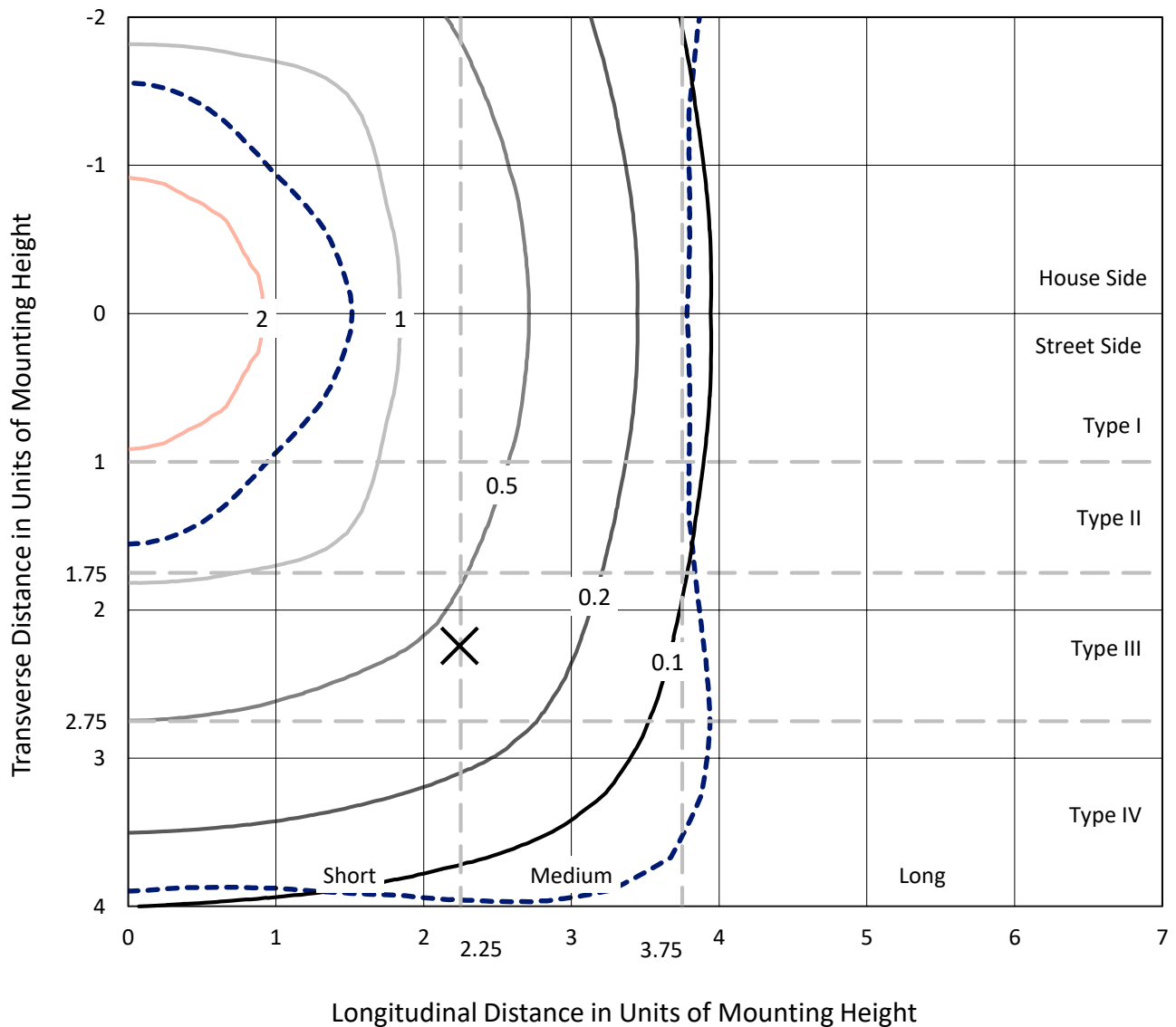


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

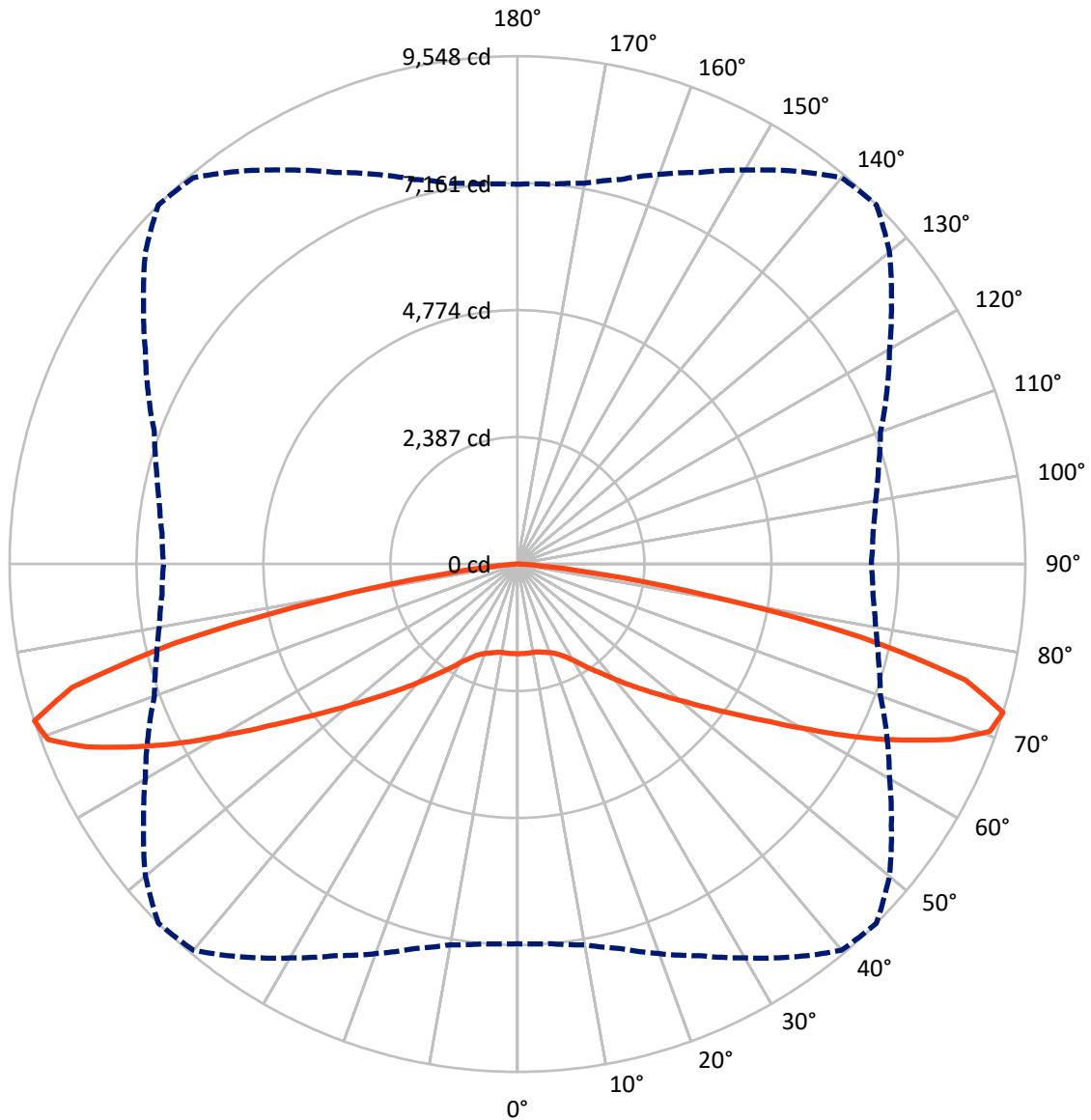


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Semi-Cutoff

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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    | 11921.5  | 0.0    | 11921.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11921.5  | 0.0    | 11921.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23843.0  | 0.0    | 23843.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 161.2   | 0.7       |
| 10°-20°   | 489.7   | 2.1       |
| 20°-30°   | 894.8   | 3.8       |
| 30°-40°   | 1542.8  | 6.5       |
| 40°-50°   | 2637.5  | 11.1      |
| 50°-60°   | 4275.0  | 17.9      |
| 60°-70°   | 7092.0  | 29.7      |
| 70°-80°   | 6246.4  | 26.2      |
| 80°-90°   | 503.6   | 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°    | 23843.0 | 100.0     |
| 0°-180°   | 23843.0 | 100.0     |



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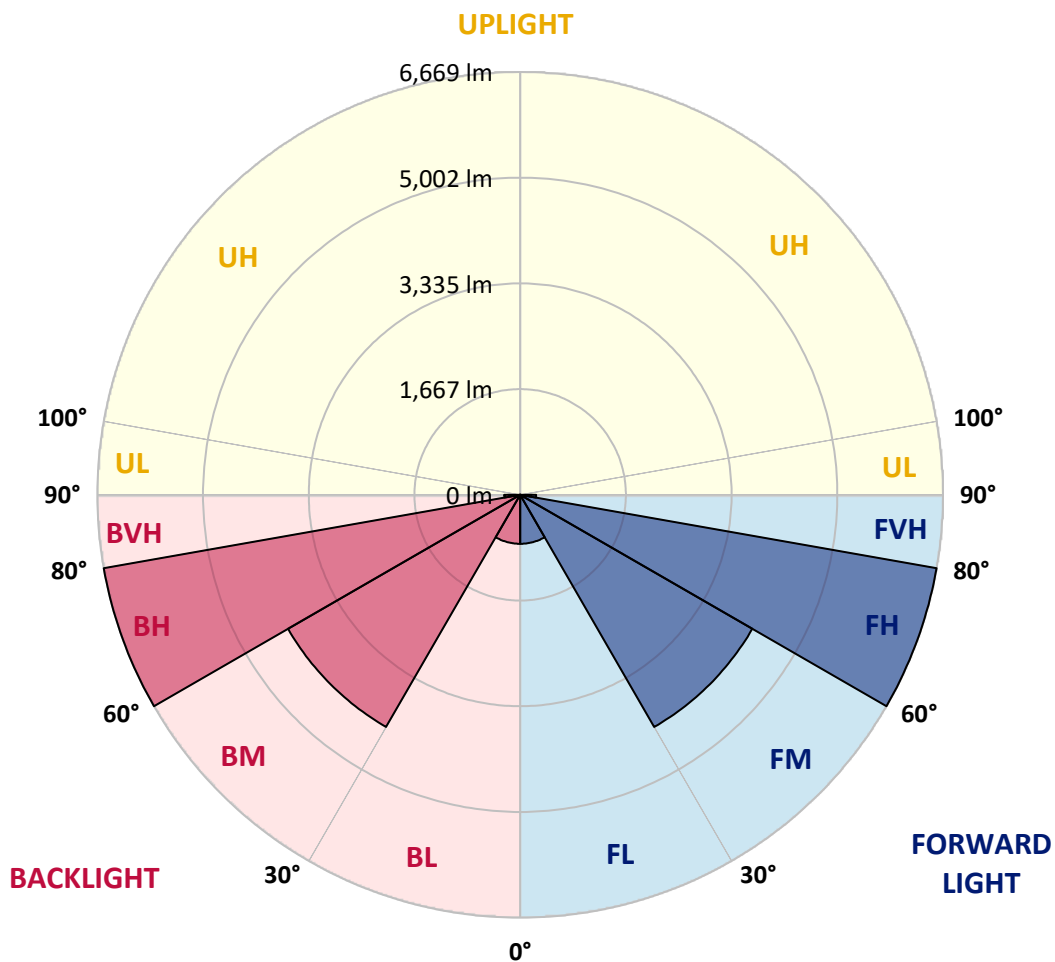
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 772.9  | 3.2       |                         |      |         |
| FM   | (30°-60°)   | 4227.6 | 17.7      |                         |      |         |
| FH   | (60°-80°)   | 6669.2 | 28.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 251.8  | 1.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 772.9  | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4227.6 | 17.7      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 6669.2 | 28.0      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 251.8  | 1.1       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 |
| 2.5°  | 1688.5 | 1689.5 | 1690.6 | 1689.5 | 1689.5 | 1688.5 | 1687.4 | 1688.5 | 1687.4 | 1685.2 | 1686.3 |
| 5°    | 1693.9 | 1696.1 | 1696.1 | 1693.9 | 1695.0 | 1693.9 | 1691.7 | 1692.8 | 1690.6 | 1687.4 | 1687.4 |
| 7.5°  | 1700.5 | 1701.6 | 1701.6 | 1699.4 | 1700.5 | 1698.3 | 1696.1 | 1695.0 | 1692.8 | 1688.5 | 1685.2 |
| 10°   | 1710.3 | 1711.4 | 1710.3 | 1708.1 | 1708.1 | 1704.9 | 1699.4 | 1697.2 | 1692.8 | 1686.3 | 1683.0 |
| 12.5° | 1721.3 | 1722.4 | 1721.3 | 1719.1 | 1718.0 | 1712.5 | 1708.1 | 1704.9 | 1701.6 | 1696.1 | 1690.6 |
| 15°   | 1736.6 | 1738.8 | 1736.6 | 1732.2 | 1728.9 | 1724.5 | 1722.4 | 1723.4 | 1724.5 | 1720.2 | 1714.7 |
| 17.5° | 1765.0 | 1766.1 | 1762.8 | 1753.0 | 1748.6 | 1744.2 | 1744.2 | 1746.4 | 1749.7 | 1747.5 | 1742.0 |
| 20°   | 1817.5 | 1814.2 | 1806.6 | 1794.5 | 1789.1 | 1781.4 | 1780.3 | 1781.4 | 1781.4 | 1780.3 | 1775.9 |
| 22.5° | 1883.1 | 1880.9 | 1871.1 | 1855.8 | 1848.1 | 1843.7 | 1837.2 | 1831.7 | 1830.6 | 1827.3 | 1823.0 |
| 25°   | 1961.8 | 1960.8 | 1948.7 | 1935.6 | 1930.1 | 1924.7 | 1919.2 | 1911.5 | 1905.0 | 1897.3 | 1893.0 |
| 27.5° | 2062.5 | 2058.1 | 2040.6 | 2034.0 | 2026.4 | 2023.1 | 2015.4 | 2006.7 | 2001.2 | 1991.4 | 1985.9 |
| 30°   | 2172.9 | 2172.9 | 2158.7 | 2156.5 | 2156.5 | 2148.8 | 2140.1 | 2124.8 | 2114.9 | 2105.1 | 2101.8 |
| 32.5° | 2283.4 | 2284.4 | 2270.2 | 2274.6 | 2277.9 | 2283.4 | 2285.5 | 2280.1 | 2273.5 | 2272.4 | 2265.9 |
| 35°   | 2443.0 | 2438.6 | 2424.4 | 2427.7 | 2426.6 | 2425.5 | 2425.5 | 2437.5 | 2439.7 | 2441.9 | 2428.8 |
| 37.5° | 2640.9 | 2640.9 | 2626.7 | 2626.7 | 2620.2 | 2613.6 | 2604.9 | 2612.5 | 2624.5 | 2627.8 | 2619.1 |
| 40°   | 2867.3 | 2875.0 | 2857.5 | 2856.4 | 2858.6 | 2837.8 | 2827.9 | 2840.0 | 2847.6 | 2860.7 | 2850.9 |
| 42.5° | 3134.1 | 3128.7 | 3111.2 | 3109.0 | 3097.0 | 3090.4 | 3081.6 | 3091.5 | 3103.5 | 3112.3 | 3115.5 |
| 45°   | 3390.0 | 3385.7 | 3366.0 | 3366.0 | 3353.9 | 3348.5 | 3352.9 | 3369.3 | 3374.7 | 3386.8 | 3398.8 |
| 47.5° | 3642.6 | 3637.2 | 3624.1 | 3629.5 | 3630.6 | 3640.5 | 3654.7 | 3670.0 | 3685.3 | 3701.7 | 3707.2 |
| 50°   | 3900.7 | 3901.8 | 3887.6 | 3900.7 | 3917.1 | 3944.5 | 3982.7 | 4007.9 | 4039.6 | 4060.4 | 4066.9 |
| 52.5° | 4135.8 | 4140.2 | 4155.5 | 4186.1 | 4218.9 | 4272.5 | 4338.1 | 4399.4 | 4451.9 | 4486.9 | 4484.7 |
| 55°   | 4418.0 | 4424.5 | 4461.7 | 4514.2 | 4567.8 | 4648.7 | 4746.0 | 4854.3 | 4941.8 | 4992.1 | 4960.4 |
| 57.5° | 4778.9 | 4793.1 | 4834.6 | 4905.7 | 4985.5 | 5090.5 | 5223.9 | 5386.9 | 5522.5 | 5590.3 | 5538.9 |
| 60°   | 5274.2 | 5283.0 | 5333.3 | 5412.0 | 5508.3 | 5638.4 | 5816.6 | 6035.4 | 6226.7 | 6316.4 | 6257.3 |
| 62.5° | 5927.1 | 5943.5 | 5984.0 | 6063.8 | 6162.2 | 6309.8 | 6527.5 | 6800.8 | 7039.2 | 7163.9 | 7030.5 |
| 65°   | 6706.8 | 6759.3 | 6793.2 | 6874.1 | 6966.0 | 7122.3 | 7349.8 | 7642.9 | 7898.8 | 7980.8 | 7826.6 |
| 67.5° | 7478.8 | 7524.8 | 7583.8 | 7676.8 | 7769.7 | 7945.8 | 8156.9 | 8441.2 | 8722.2 | 8796.6 | 8557.1 |
| 70°   | 7816.8 | 7843.0 | 7934.9 | 8061.7 | 8240.0 | 8447.7 | 8691.6 | 9010.9 | 9358.7 | 9419.9 | 9115.9 |
| 72.5° | 7139.8 | 7166.1 | 7268.9 | 7484.3 | 7794.9 | 8125.1 | 8550.5 | 9019.7 | 9479.0 | 9547.9 | 9129.0 |
| 75°   | 5400.0 | 5357.3 | 5509.3 | 5794.8 | 6213.6 | 6674.0 | 7268.9 | 7941.4 | 8605.2 | 8691.6 | 8191.8 |
| 77.5° | 2790.8 | 2785.3 | 2900.1 | 3254.4 | 3754.2 | 4278.0 | 4933.0 | 5693.1 | 6342.6 | 6605.1 | 6198.3 |
| 80°   | 786.3  | 795.0  | 849.7  | 1025.8 | 1317.7 | 1696.1 | 2207.9 | 2919.8 | 3451.3 | 3722.5 | 3495.0 |
| 82.5° | 308.4  | 332.4  | 353.2  | 386.0  | 424.3  | 480.1  | 640.8  | 953.6  | 1279.5 | 1528.8 | 1252.1 |
| 85°   | 110.4  | 118.1  | 167.3  | 197.9  | 201.2  | 212.2  | 241.7  | 282.1  | 340.1  | 405.7  | 333.5  |
| 87.5° | 41.6   | 45.9   | 53.6   | 88.6   | 87.5   | 79.8   | 97.3   | 101.7  | 76.5   | 70.0   | 86.4   |
| 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°    | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 | 1688.5 |
| 2.5°  | 1684.1 | 1685.2 | 1685.2 | 1686.3 | 1687.4 | 1687.4 | 1689.5 | 1689.5 |
| 5°    | 1685.2 | 1685.2 | 1683.0 | 1684.1 | 1683.0 | 1683.0 | 1684.1 | 1684.1 |
| 7.5°  | 1683.0 | 1681.9 | 1679.7 | 1678.6 | 1676.4 | 1676.4 | 1676.4 | 1676.4 |
| 10°   | 1679.7 | 1678.6 | 1676.4 | 1675.3 | 1674.2 | 1674.2 | 1674.2 | 1674.2 |
| 12.5° | 1688.5 | 1685.2 | 1683.0 | 1681.9 | 1681.9 | 1681.9 | 1681.9 | 1681.9 |
| 15°   | 1711.4 | 1703.8 | 1698.3 | 1698.3 | 1699.4 | 1701.6 | 1701.6 | 1703.8 |
| 17.5° | 1739.9 | 1731.1 | 1725.6 | 1721.3 | 1723.4 | 1726.7 | 1728.9 | 1731.1 |
| 20°   | 1773.8 | 1769.4 | 1761.7 | 1757.3 | 1757.3 | 1761.7 | 1763.9 | 1765.0 |
| 22.5° | 1820.8 | 1817.5 | 1814.2 | 1808.7 | 1808.7 | 1810.9 | 1815.3 | 1815.3 |
| 25°   | 1890.8 | 1888.6 | 1886.4 | 1882.0 | 1880.9 | 1880.9 | 1883.1 | 1885.3 |
| 27.5° | 1978.2 | 1979.3 | 1977.2 | 1976.1 | 1972.8 | 1971.7 | 1975.0 | 1973.9 |
| 30°   | 2095.3 | 2100.7 | 2106.2 | 2101.8 | 2096.4 | 2093.1 | 2089.8 | 2085.4 |
| 32.5° | 2253.8 | 2247.3 | 2242.9 | 2235.2 | 2225.4 | 2216.6 | 2210.1 | 2202.4 |
| 35°   | 2403.6 | 2392.7 | 2388.3 | 2394.9 | 2393.8 | 2388.3 | 2380.7 | 2374.1 |
| 37.5° | 2587.4 | 2585.2 | 2587.4 | 2599.4 | 2597.2 | 2602.7 | 2587.4 | 2586.3 |
| 40°   | 2819.2 | 2821.4 | 2836.7 | 2850.9 | 2858.6 | 2866.2 | 2857.5 | 2848.7 |
| 42.5° | 3088.2 | 3087.1 | 3092.6 | 3112.3 | 3125.4 | 3134.1 | 3115.5 | 3113.4 |
| 45°   | 3372.5 | 3364.9 | 3369.3 | 3385.7 | 3398.8 | 3408.6 | 3387.8 | 3387.8 |
| 47.5° | 3685.3 | 3672.2 | 3658.0 | 3676.5 | 3684.2 | 3690.8 | 3674.4 | 3668.9 |
| 50°   | 4034.1 | 4006.8 | 3976.2 | 3983.8 | 3983.8 | 3981.6 | 3960.9 | 3959.8 |
| 52.5° | 4434.4 | 4384.1 | 4328.3 | 4307.5 | 4295.5 | 4282.4 | 4246.3 | 4228.8 |
| 55°   | 4894.8 | 4819.3 | 4731.8 | 4678.2 | 4649.8 | 4613.7 | 4553.6 | 4537.2 |
| 57.5° | 5432.8 | 5314.7 | 5163.8 | 5098.2 | 5034.7 | 4975.7 | 4909.0 | 4890.4 |
| 60°   | 6070.3 | 5896.5 | 5696.3 | 5575.0 | 5506.1 | 5449.2 | 5380.3 | 5377.0 |
| 62.5° | 6781.2 | 6506.7 | 6280.3 | 6171.0 | 6120.6 | 6070.3 | 6004.7 | 6013.5 |
| 65°   | 7504.0 | 7217.5 | 7005.3 | 6916.8 | 6869.7 | 6828.2 | 6762.6 | 6772.4 |
| 67.5° | 8217.0 | 7953.5 | 7720.5 | 7629.8 | 7577.3 | 7524.8 | 7465.7 | 7475.6 |
| 70°   | 8728.8 | 8401.8 | 8139.4 | 7938.1 | 7812.4 | 7670.2 | 7578.4 | 7555.4 |
| 72.5° | 8582.2 | 8078.1 | 7661.5 | 7262.3 | 7028.3 | 6838.0 | 6709.0 | 6653.2 |
| 75°   | 7427.5 | 6738.5 | 6202.7 | 5712.8 | 5437.2 | 5213.0 | 5050.1 | 4948.4 |
| 77.5° | 5515.9 | 4741.7 | 4108.5 | 3544.2 | 3098.1 | 2798.4 | 2587.4 | 2450.7 |
| 80°   | 3019.3 | 2296.5 | 1678.6 | 1179.9 | 867.2  | 720.7  | 636.5  | 596.0  |
| 82.5° | 940.5  | 606.9  | 447.3  | 386.0  | 358.7  | 343.4  | 318.2  | 277.8  |
| 85°   | 299.6  | 262.5  | 243.9  | 232.9  | 222.0  | 193.6  | 133.4  | 121.4  |
| 87.5° | 115.9  | 119.2  | 118.1  | 111.5  | 113.7  | 82.0   | 65.6   | 58.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)