

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: P193751

Luminaire Tested: **GAN-AF-03-LED-U-SL4-8030-HSS-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193751  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-SL4-8030-HSS-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12035 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166  
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

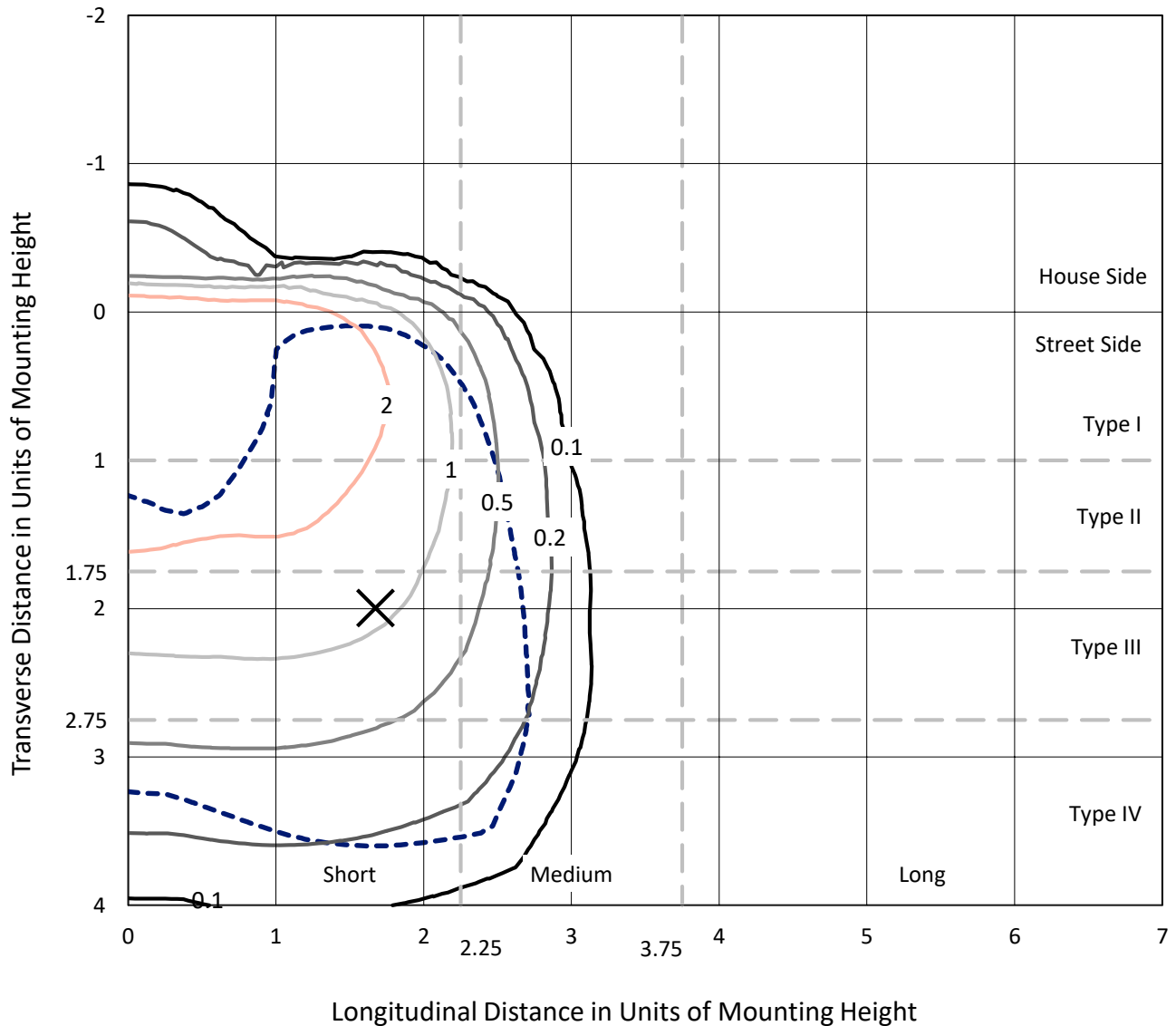


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

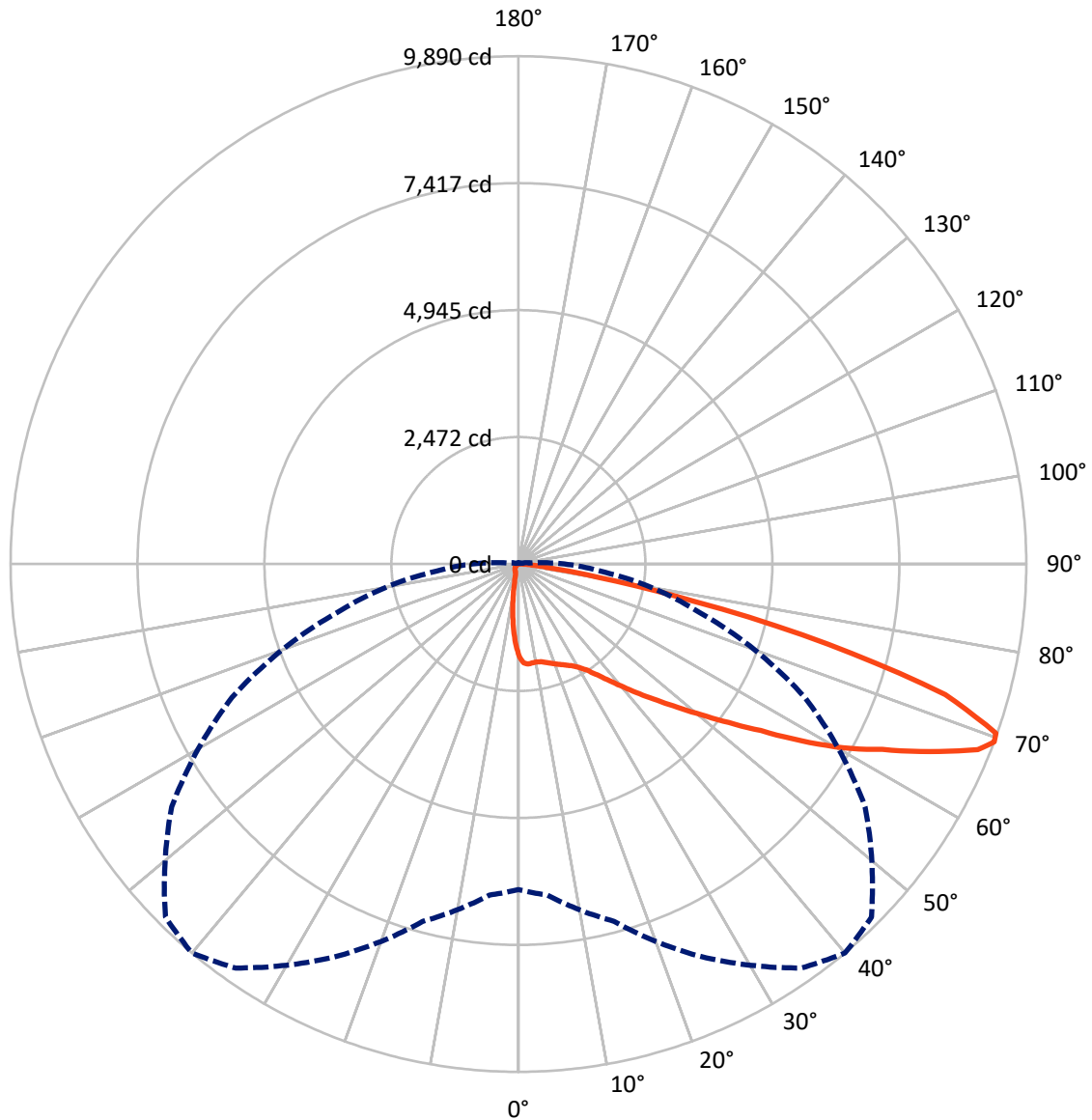


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 704.1    | 0.0    | 704.1   |
|                    | % Fixture | 5.9      | 0.0    | 5.9     |
| <b>Street Side</b> | Lumens    | 11330.9  | 0.0    | 11330.9 |
|                    | % Fixture | 94.1     | 0.0    | 94.1    |
| <b>Total</b>       | Lumens    | 12035.0  | 0.0    | 12035.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 145.8   | 1.2       |
| 10°-20°   | 358.5   | 3.0       |
| 20°-30°   | 603.9   | 5.0       |
| 30°-40°   | 988.6   | 8.2       |
| 40°-50°   | 1711.7  | 14.2      |
| 50°-60°   | 2696.1  | 22.4      |
| 60°-70°   | 3520.9  | 29.3      |
| 70°-80°   | 1813.4  | 15.1      |
| 80°-90°   | 196.2   | 1.6       |
| 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°    | 12035.0 | 100.0     |
| 0°-180°   | 12035.0 | 100.0     |

**Coefficient of Utilization**



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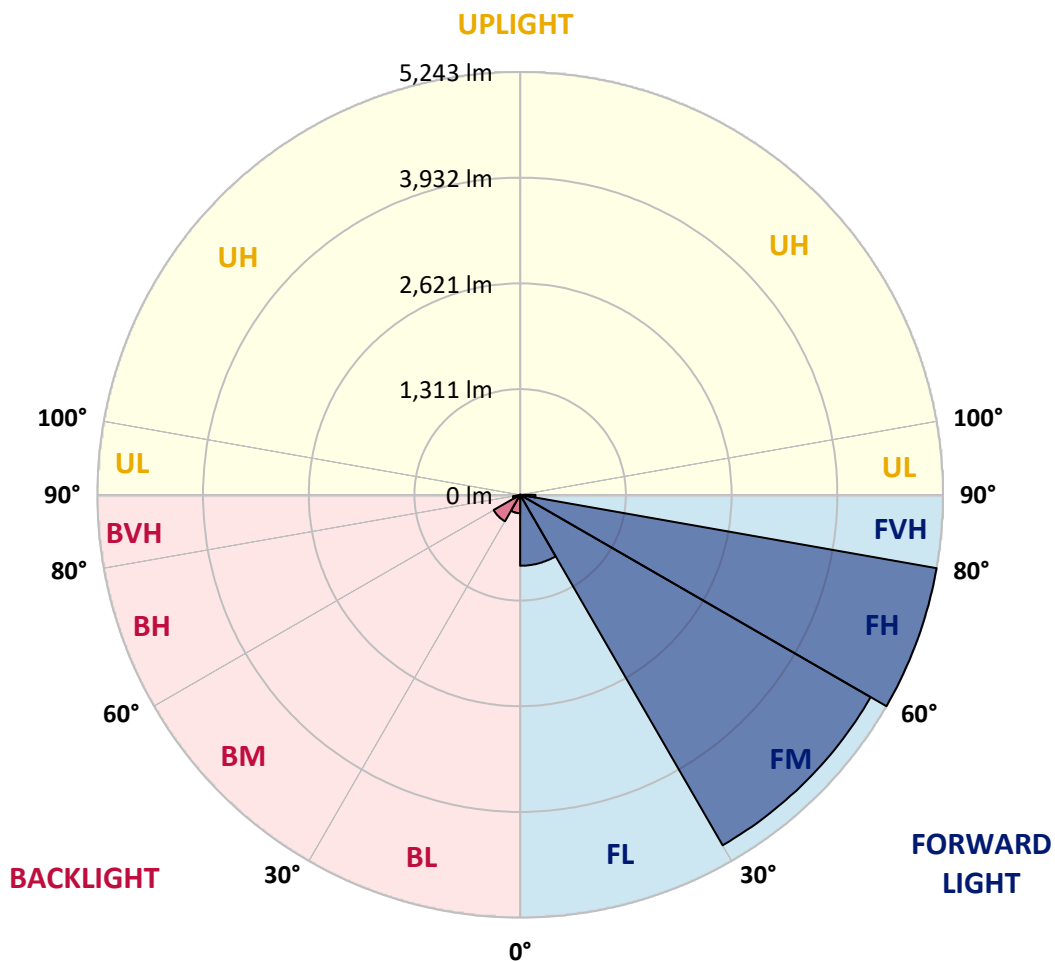
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 880.1  | 7.3       |                         |      |         |
| FM (30°-60°)   | 5017.8 | 41.7      |                         |      |         |
| FH (60°-80°)   | 5242.9 | 43.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 190.0  | 1.6       |                         |      | G2/225  |
| BL (0°-30°)    | 228.1  | 1.9       | B1/500                  |      |         |
| BM (30°-60°)   | 378.4  | 3.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 91.4   | 0.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 6.2    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 |
| 2.5°  | 1974.3 | 1963.6 | 1957.1 | 1948.5 | 1937.8 | 1928.5 | 1924.9 | 1898.4 | 1873.3 | 1838.9 | 1799.5 |
| 5°    | 2010.9 | 2007.3 | 1995.8 | 1984.3 | 1971.5 | 1957.1 | 1949.2 | 1917.7 | 1881.9 | 1831.8 | 1763.0 |
| 7.5°  | 2014.4 | 2010.1 | 1995.8 | 1980.0 | 1962.1 | 1944.9 | 1931.3 | 1899.8 | 1866.9 | 1816.0 | 1732.2 |
| 10°   | 2008.7 | 2003.7 | 1992.9 | 1975.8 | 1953.5 | 1937.1 | 1923.5 | 1893.4 | 1865.4 | 1819.6 | 1726.5 |
| 12.5° | 2002.3 | 1997.2 | 1992.2 | 1983.6 | 1964.3 | 1952.8 | 1941.4 | 1912.7 | 1887.6 | 1849.0 | 1747.2 |
| 15°   | 2008.7 | 2005.8 | 2011.6 | 2008.0 | 1997.2 | 1987.2 | 1975.8 | 1950.0 | 1927.0 | 1894.8 | 1785.2 |
| 17.5° | 2035.9 | 2035.9 | 2053.8 | 2056.0 | 2046.0 | 2031.6 | 2015.2 | 1989.4 | 1970.0 | 1942.8 | 1830.3 |
| 20°   | 2099.7 | 2097.5 | 2120.5 | 2124.8 | 2100.4 | 2078.2 | 2053.8 | 2022.3 | 2007.3 | 1990.1 | 1874.7 |
| 22.5° | 2209.3 | 2199.3 | 2212.9 | 2208.6 | 2160.6 | 2126.2 | 2096.1 | 2057.4 | 2049.5 | 2041.7 | 1924.2 |
| 25°   | 2351.8 | 2346.1 | 2355.4 | 2313.2 | 2228.6 | 2182.1 | 2146.2 | 2102.5 | 2102.5 | 2110.4 | 1980.0 |
| 27.5° | 2558.9 | 2537.4 | 2505.9 | 2431.4 | 2304.6 | 2245.1 | 2206.4 | 2159.9 | 2172.0 | 2201.4 | 2053.8 |
| 30°   | 2770.9 | 2747.3 | 2674.9 | 2560.3 | 2397.0 | 2334.7 | 2289.5 | 2240.8 | 2269.5 | 2323.2 | 2152.7 |
| 32.5° | 2980.1 | 2953.6 | 2851.2 | 2706.4 | 2529.5 | 2467.2 | 2423.5 | 2369.8 | 2417.8 | 2508.0 | 2297.4 |
| 35°   | 3182.8 | 3159.2 | 3041.0 | 2870.5 | 2705.7 | 2654.2 | 2614.0 | 2567.5 | 2629.1 | 2755.2 | 2501.6 |
| 37.5° | 3410.6 | 3384.9 | 3240.9 | 3056.0 | 2919.9 | 2882.7 | 2853.3 | 2806.7 | 2914.2 | 3099.0 | 2786.0 |
| 40°   | 3690.7 | 3647.0 | 3452.9 | 3268.8 | 3167.8 | 3149.9 | 3129.8 | 3123.4 | 3290.3 | 3546.0 | 3164.9 |
| 42.5° | 4011.7 | 3940.0 | 3675.0 | 3493.0 | 3440.0 | 3452.9 | 3447.9 | 3476.5 | 3760.9 | 4101.9 | 3626.3 |
| 45°   | 4332.6 | 4240.2 | 3922.1 | 3732.3 | 3739.5 | 3784.6 | 3812.5 | 3927.1 | 4350.5 | 4739.5 | 4122.7 |
| 47.5° | 4604.8 | 4513.9 | 4159.2 | 3990.9 | 4076.9 | 4165.7 | 4241.6 | 4458.7 | 4956.6 | 5367.1 | 4508.8 |
| 50°   | 4837.7 | 4751.7 | 4410.7 | 4275.3 | 4468.7 | 4612.0 | 4735.2 | 5056.9 | 5608.5 | 5844.9 | 4779.6 |
| 52.5° | 5028.2 | 4970.9 | 4671.5 | 4601.3 | 4916.5 | 5126.3 | 5306.9 | 5692.3 | 6185.9 | 6233.1 | 4990.2 |
| 55°   | 5213.7 | 5172.9 | 4951.6 | 4988.8 | 5442.3 | 5728.1 | 5956.6 | 6366.4 | 6683.0 | 6556.9 | 5192.3 |
| 57.5° | 5427.2 | 5390.0 | 5271.1 | 5480.2 | 6133.6 | 6493.2 | 6742.5 | 6963.8 | 7120.7 | 6887.9 | 5382.8 |
| 60°   | 5645.0 | 5623.5 | 5626.4 | 6026.1 | 6927.3 | 7272.6 | 7410.1 | 7467.4 | 7550.5 | 7199.5 | 5393.6 |
| 62.5° | 5852.7 | 5893.6 | 6032.6 | 6633.6 | 7687.4 | 7952.4 | 8021.9 | 8078.5 | 7981.1 | 7249.0 | 4983.1 |
| 65°   | 6204.5 | 6271.1 | 6602.8 | 7446.7 | 8523.4 | 8807.1 | 8878.7 | 8684.6 | 8049.1 | 6610.0 | 4053.2 |
| 67.5° | 6376.4 | 6498.2 | 7089.9 | 8204.6 | 9334.3 | 9649.5 | 9623.0 | 8724.0 | 7223.2 | 5040.4 | 2601.1 |
| 69°   | 6340.6 | 6470.3 | 7202.4 | 8436.7 | 9603.7 | 9889.5 | 9721.2 | 8241.8 | 6153.6 | 3651.3 | 1596.8 |
| 70°   | 6198.8 | 6329.9 | 7144.4 | 8428.1 | 9638.1 | 9864.4 | 9539.2 | 7646.5 | 5203.0 | 2669.9 | 998.6  |
| 72.5° | 5176.5 | 5289.7 | 6342.7 | 7617.9 | 8878.7 | 8694.6 | 7980.4 | 5297.6 | 2535.2 | 727.1  | 224.9  |
| 75°   | 3186.4 | 3249.5 | 4551.1 | 5738.8 | 6705.9 | 6233.1 | 5316.9 | 2635.5 | 755.8  | 205.6  | 124.6  |
| 77.5° | 1683.5 | 1712.1 | 2491.5 | 3382.7 | 4250.9 | 3517.4 | 2725.1 | 1028.0 | 348.2  | 128.9  | 90.3   |
| 80°   | 995.0  | 1016.5 | 1341.8 | 1546.6 | 1839.6 | 1536.6 | 1089.6 | 631.1  | 249.3  | 80.9   | 80.2   |
| 82.5° | 569.5  | 583.1  | 972.8  | 859.6  | 725.0  | 618.9  | 542.3  | 598.2  | 149.7  | 54.4   | 83.1   |
| 85°   | 209.2  | 212.0  | 547.3  | 654.0  | 431.3  | 256.5  | 269.4  | 495.7  | 40.1   | 34.4   | 65.2   |
| 87.5° | 97.4   | 95.3   | 281.5  | 400.5  | 252.2  | 162.6  | 209.9  | 108.9  | 15.8   | 22.2   | 17.9   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 | 1798.1 |
| 2.5°  | 1776.6 | 1750.1 | 1702.1 | 1652.7 | 1602.5 | 1563.8 | 1525.9 | 1495.8 | 1485.8 | 1467.1 | 1468.6 |
| 5°    | 1722.2 | 1673.4 | 1573.2 | 1471.4 | 1365.4 | 1278.0 | 1195.6 | 1129.0 | 1096.8 | 1063.8 | 1063.8 |
| 7.5°  | 1674.9 | 1604.0 | 1447.1 | 1281.6 | 1110.4 | 966.4  | 836.7  | 739.3  | 685.6  | 642.6  | 641.9  |
| 10°   | 1657.0 | 1561.0 | 1341.8 | 1104.6 | 866.1  | 669.8  | 515.8  | 416.9  | 366.1  | 333.1  | 331.7  |
| 12.5° | 1664.8 | 1545.9 | 1260.8 | 941.3  | 641.9  | 430.5  | 298.7  | 235.0  | 213.5  | 203.4  | 203.4  |
| 15°   | 1687.8 | 1541.6 | 1179.9 | 781.6  | 453.5  | 269.4  | 198.4  | 181.2  | 179.8  | 179.8  | 179.8  |
| 17.5° | 1715.7 | 1543.1 | 1096.8 | 626.1  | 308.8  | 192.7  | 171.2  | 169.1  | 170.5  | 170.5  | 170.5  |
| 20°   | 1744.4 | 1543.8 | 1007.2 | 482.1  | 217.8  | 167.6  | 161.2  | 160.5  | 161.9  | 161.9  | 162.6  |
| 22.5° | 1779.5 | 1547.4 | 917.7  | 360.3  | 179.8  | 158.3  | 153.3  | 153.3  | 154.0  | 154.0  | 153.3  |
| 25°   | 1819.6 | 1554.5 | 824.5  | 267.2  | 164.0  | 151.9  | 147.6  | 146.9  | 147.6  | 146.9  | 146.1  |
| 27.5° | 1869.7 | 1564.6 | 720.7  | 209.2  | 156.9  | 145.4  | 141.8  | 141.8  | 141.1  | 140.4  | 139.7  |
| 30°   | 1932.8 | 1576.0 | 603.9  | 177.7  | 149.7  | 139.7  | 136.1  | 135.4  | 134.7  | 133.2  | 133.2  |
| 32.5° | 2028.8 | 1601.1 | 488.6  | 161.2  | 141.8  | 131.8  | 128.9  | 128.9  | 127.5  | 126.1  | 125.4  |
| 35°   | 2176.3 | 1650.5 | 385.4  | 151.2  | 133.2  | 123.2  | 119.6  | 119.6  | 118.2  | 117.5  | 116.8  |
| 37.5° | 2380.5 | 1725.7 | 299.4  | 141.8  | 124.6  | 113.9  | 110.3  | 109.6  | 108.2  | 106.7  | 106.0  |
| 40°   | 2652.0 | 1818.9 | 235.7  | 133.2  | 116.1  | 104.6  | 101.7  | 100.3  | 97.4   | 95.3   | 95.3   |
| 42.5° | 2993.0 | 1924.9 | 191.3  | 123.9  | 106.0  | 96.0   | 93.8   | 91.7   | 86.7   | 84.5   | 83.8   |
| 45°   | 3349.8 | 2020.2 | 161.9  | 113.2  | 96.0   | 87.4   | 86.0   | 82.4   | 75.9   | 73.8   | 73.8   |
| 47.5° | 3606.9 | 2042.4 | 142.6  | 103.2  | 86.7   | 78.1   | 77.4   | 70.9   | 65.2   | 63.8   | 63.0   |
| 50°   | 3767.4 | 1998.7 | 126.8  | 93.1   | 78.1   | 69.5   | 67.3   | 59.5   | 55.9   | 54.4   | 53.7   |
| 52.5° | 3875.6 | 1920.6 | 113.9  | 84.5   | 70.2   | 61.6   | 56.6   | 50.9   | 48.0   | 46.6   | 46.6   |
| 55°   | 3962.2 | 1810.3 | 101.0  | 76.7   | 63.8   | 55.2   | 48.0   | 43.7   | 40.8   | 39.4   | 39.4   |
| 57.5° | 3986.6 | 1660.5 | 88.1   | 70.2   | 57.3   | 48.7   | 40.8   | 38.0   | 34.4   | 33.7   | 33.7   |
| 60°   | 3809.7 | 1390.5 | 78.1   | 62.3   | 51.6   | 42.3   | 35.8   | 32.2   | 28.7   | 27.9   | 27.2   |
| 62.5° | 3343.3 | 1076.0 | 68.8   | 55.2   | 45.1   | 36.5   | 30.8   | 26.5   | 23.6   | 23.6   | 23.6   |
| 65°   | 2550.3 | 721.4  | 60.2   | 48.0   | 39.4   | 30.8   | 26.5   | 21.5   | 20.1   | 20.1   | 20.8   |
| 67.5° | 1526.6 | 392.6  | 51.6   | 40.8   | 33.7   | 25.8   | 22.2   | 18.6   | 17.9   | 18.6   | 18.6   |
| 69°   | 894.7  | 230.7  | 46.6   | 36.5   | 29.4   | 22.9   | 19.3   | 16.5   | 17.9   | 18.6   | 18.6   |
| 70°   | 552.3  | 155.5  | 43.0   | 33.0   | 26.5   | 20.8   | 17.9   | 15.8   | 17.2   | 17.9   | 17.9   |
| 72.5° | 154.0  | 80.2   | 34.4   | 25.8   | 21.5   | 17.2   | 14.3   | 14.3   | 16.5   | 17.2   | 17.2   |
| 75°   | 100.3  | 59.5   | 26.5   | 19.3   | 16.5   | 13.6   | 12.2   | 13.6   | 15.8   | 16.5   | 16.5   |
| 77.5° | 83.1   | 48.7   | 21.5   | 15.8   | 13.6   | 12.9   | 11.5   | 12.2   | 14.3   | 15.0   | 15.0   |
| 80°   | 75.9   | 34.4   | 17.2   | 14.3   | 12.2   | 11.5   | 10.7   | 10.0   | 12.9   | 13.6   | 13.6   |
| 82.5° | 72.4   | 27.2   | 15.0   | 12.9   | 11.5   | 10.0   | 9.3    | 10.0   | 11.5   | 12.2   | 12.9   |
| 85°   | 45.1   | 17.9   | 13.6   | 12.2   | 10.0   | 9.3    | 9.3    | 9.3    | 10.7   | 11.5   | 11.5   |
| 87.5° | 16.5   | 14.3   | 12.2   | 10.0   | 8.6    | 8.6    | 8.6    | 8.6    | 9.3    | 10.7   | 10.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)