

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: P193173

Luminaire Tested: **GAN-AF-05-LED-U-T3-7030-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-T3-7030-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18960.9 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

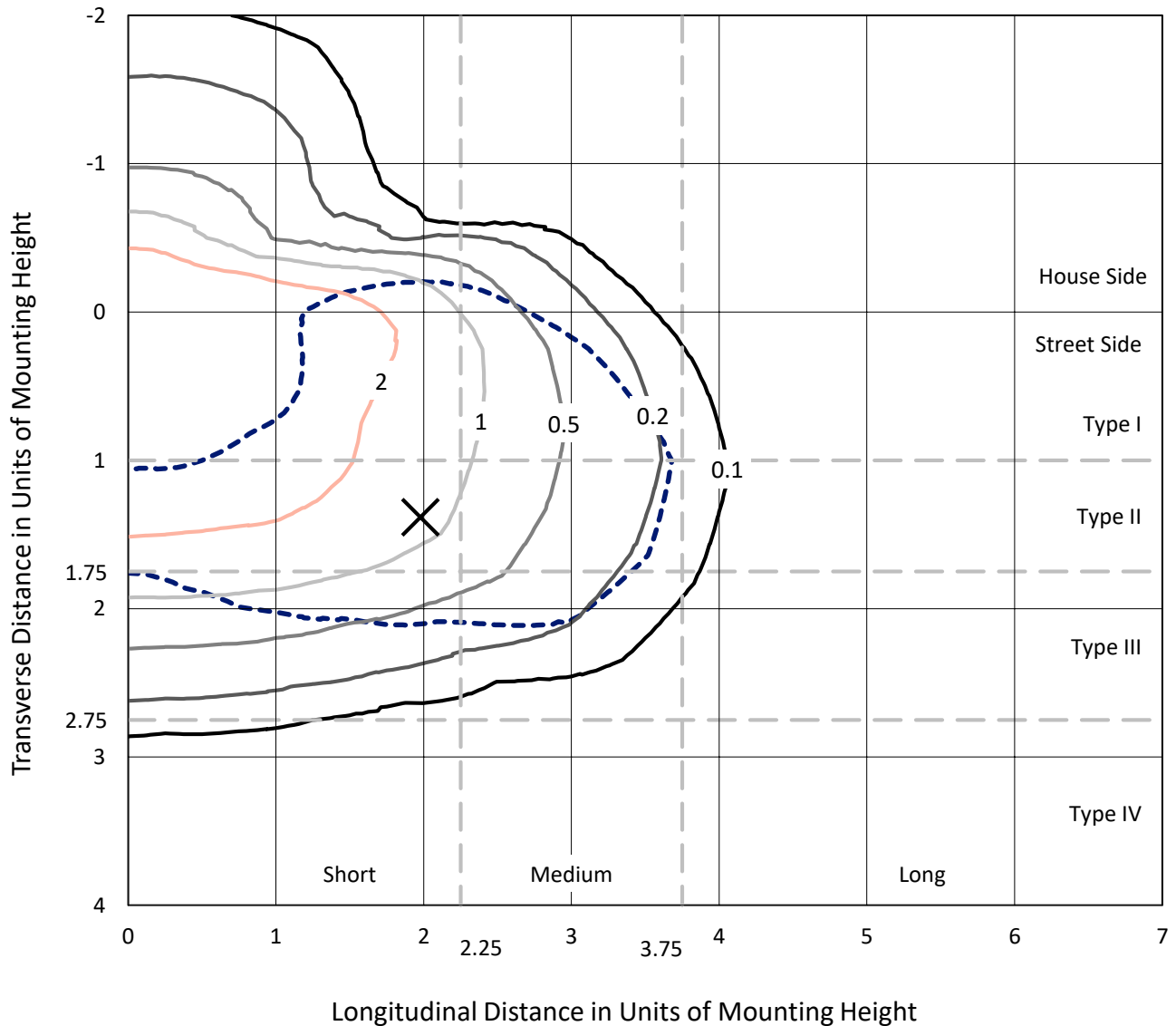
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

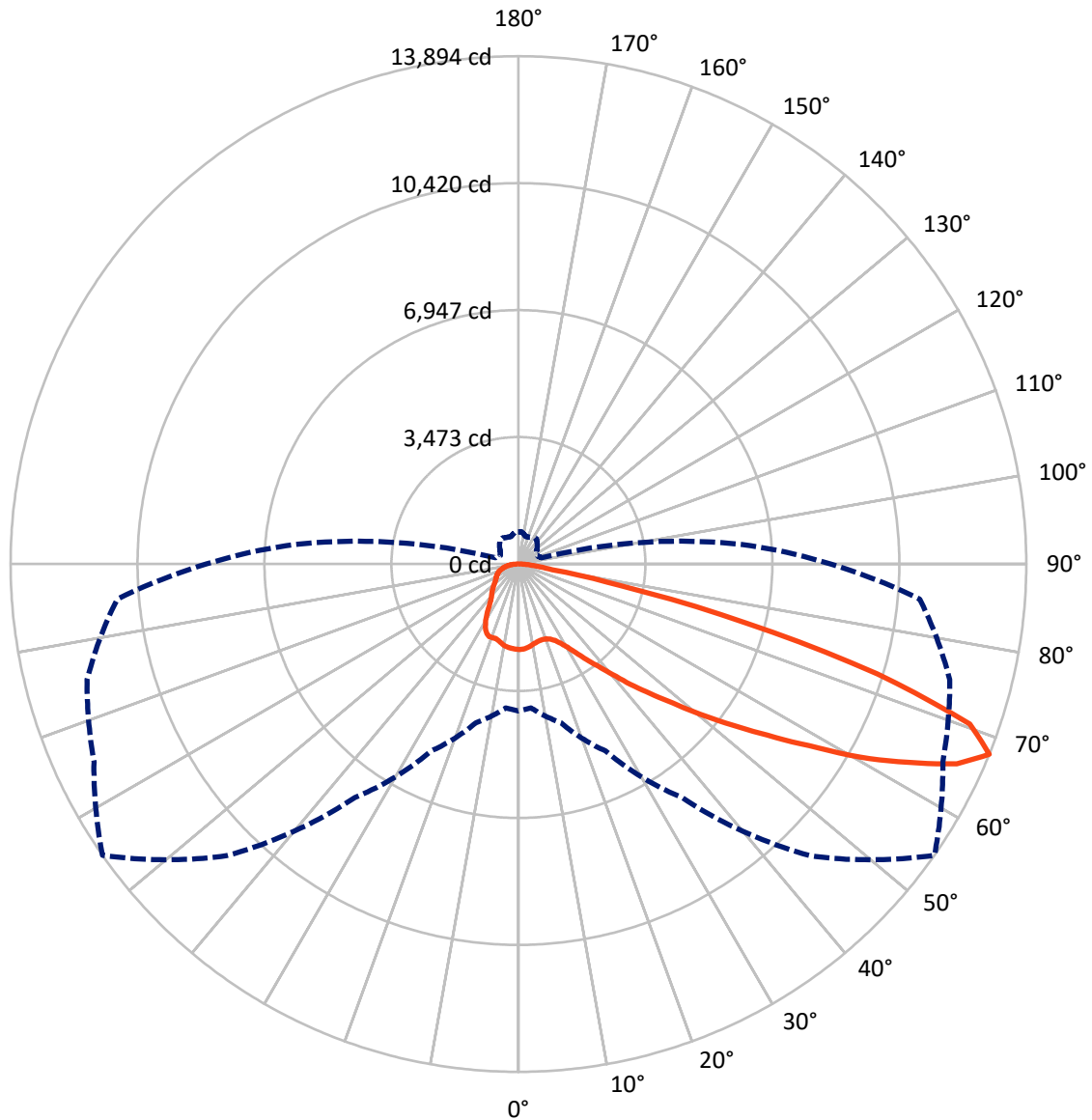


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4096.0   | 0.0    | 4096.0  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 14864.9  | 0.0    | 14864.9 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 18960.9  | 0.0    | 18960.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 218.2   | 1.2       |
| 10°-20°   | 618.1   | 3.3       |
| 20°-30°   | 1035.3  | 5.5       |
| 30°-40°   | 1702.6  | 9.0       |
| 40°-50°   | 2865.9  | 15.1      |
| 50°-60°   | 4510.8  | 23.8      |
| 60°-70°   | 5383.1  | 28.4      |
| 70°-80°   | 2311.6  | 12.2      |
| 80°-90°   | 315.2   | 1.7       |
| 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°    | 18960.9 | 100.0     |
| 0°-180°   | 18960.9 | 100.0     |

**Coefficient of Utilization**



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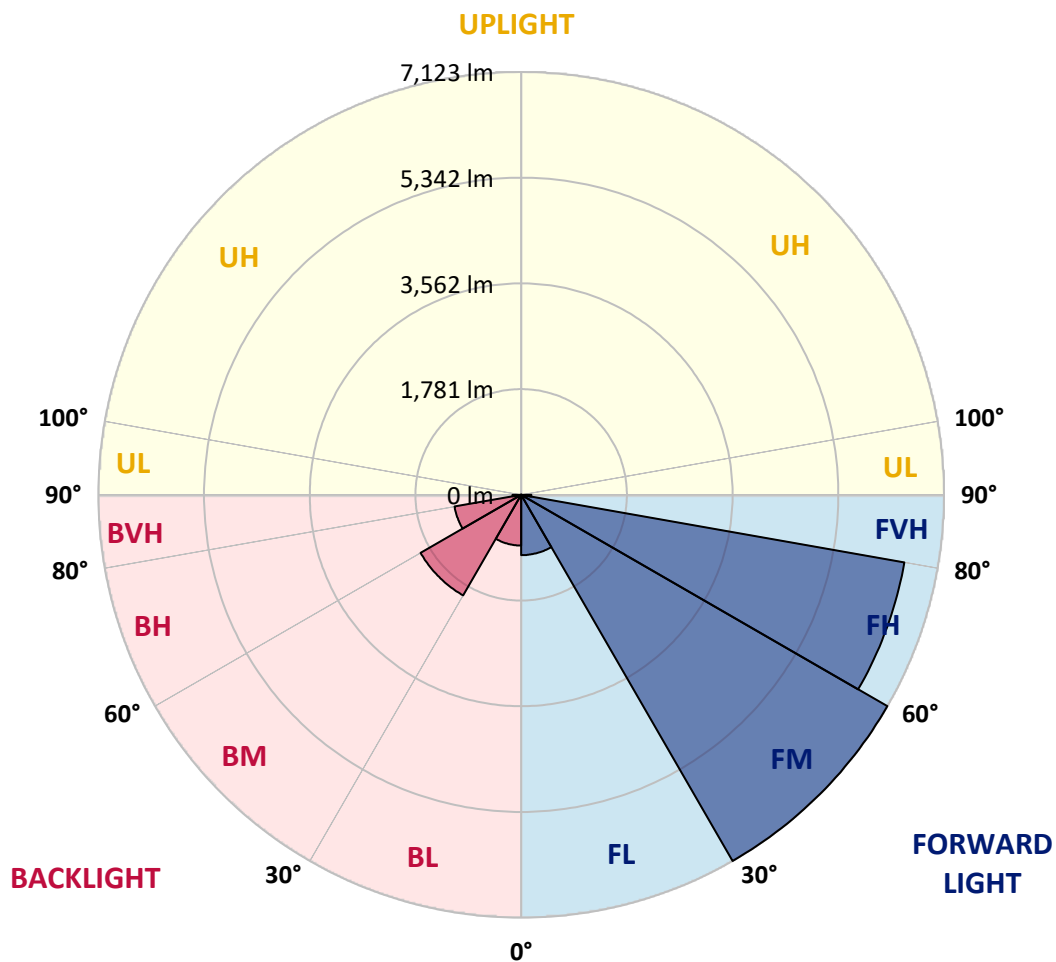
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1016.3 | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 7123.1 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 6554.9 | 34.6      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 170.6  | 0.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 855.3  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1956.2 | 10.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1139.9 | 6.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 144.6  | 0.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0  | 2338.0  | 2338.0  | 2338.0  | 2338.0  | 2338.0  |
| 2.5°  | 2317.9 | 2318.8 | 2320.6 | 2328.0 | 2334.5 | 2332.5  | 2333.4  | 2329.9  | 2329.0  | 2323.4  | 2329.0  |
| 5°    | 2288.7 | 2291.3 | 2292.3 | 2304.2 | 2311.5 | 2313.3  | 2310.7  | 2306.0  | 2300.6  | 2295.0  | 2297.8  |
| 7.5°  | 2221.8 | 2229.1 | 2230.0 | 2246.5 | 2258.4 | 2274.0  | 2274.9  | 2275.8  | 2273.0  | 2269.5  | 2274.9  |
| 10°   | 2179.6 | 2181.5 | 2180.6 | 2192.5 | 2201.6 | 2219.0  | 2229.1  | 2246.5  | 2253.8  | 2255.6  | 2259.4  |
| 12.5° | 2176.9 | 2175.1 | 2172.3 | 2172.3 | 2169.6 | 2176.9  | 2195.2  | 2219.9  | 2237.3  | 2242.9  | 2247.5  |
| 15°   | 2206.2 | 2205.3 | 2196.1 | 2182.4 | 2165.0 | 2159.5  | 2175.1  | 2202.5  | 2225.4  | 2237.3  | 2241.9  |
| 17.5° | 2272.1 | 2266.7 | 2252.0 | 2220.8 | 2183.3 | 2168.7  | 2170.4  | 2193.4  | 2219.9  | 2235.6  | 2240.1  |
| 20°   | 2393.0 | 2393.0 | 2361.8 | 2303.3 | 2236.4 | 2201.6  | 2185.1  | 2198.9  | 2224.5  | 2245.6  | 2252.0  |
| 22.5° | 2601.8 | 2603.6 | 2551.4 | 2455.3 | 2342.6 | 2268.4  | 2227.2  | 2224.5  | 2254.8  | 2278.6  | 2285.9  |
| 25°   | 2897.7 | 2890.4 | 2817.0 | 2679.7 | 2508.4 | 2385.6  | 2314.2  | 2297.8  | 2323.4  | 2349.9  | 2359.1  |
| 27.5° | 3241.9 | 3215.4 | 3128.4 | 2962.7 | 2741.0 | 2561.6  | 2451.7  | 2425.1  | 2449.8  | 2480.0  | 2489.2  |
| 30°   | 3582.7 | 3555.2 | 3451.7 | 3270.3 | 3024.1 | 2796.9  | 2639.3  | 2596.3  | 2631.2  | 2674.2  | 2679.7  |
| 32.5° | 3923.4 | 3923.4 | 3808.0 | 3596.4 | 3328.0 | 3078.1  | 2889.4  | 2838.1  | 2895.8  | 2948.1  | 2960.0  |
| 35°   | 4330.9 | 4332.6 | 4221.0 | 3966.4 | 3677.8 | 3413.3  | 3205.3  | 3167.9  | 3254.9  | 3291.4  | 3319.9  |
| 37.5° | 4831.9 | 4842.0 | 4698.1 | 4390.5 | 4074.5 | 3796.1  | 3548.7  | 3497.5  | 3584.5  | 3684.3  | 3775.9  |
| 40°   | 5373.1 | 5385.9 | 5227.5 | 4848.4 | 4532.4 | 4241.1  | 3973.8  | 3881.2  | 4025.8  | 4216.5  | 4334.6  |
| 42.5° | 5889.6 | 5955.5 | 5802.6 | 5412.4 | 5072.7 | 4771.4  | 4500.3  | 4365.7  | 4547.1  | 4834.6  | 4937.2  |
| 45°   | 6636.0 | 6683.6 | 6417.2 | 6063.7 | 5744.0 | 5407.0  | 5048.0  | 4906.1  | 5159.7  | 5522.4  | 5543.5  |
| 47.5° | 7133.3 | 7097.6 | 6962.0 | 6742.3 | 6539.8 | 6224.8  | 5684.4  | 5528.7  | 5865.8  | 6292.6  | 6174.5  |
| 50°   | 7398.0 | 7409.0 | 7390.7 | 7403.5 | 7410.8 | 7213.0  | 6464.8  | 6251.4  | 6653.5  | 7169.0  | 6897.0  |
| 52.5° | 7645.2 | 7572.0 | 7632.5 | 7932.8 | 8295.5 | 8222.2  | 7313.7  | 7091.2  | 7497.8  | 8141.6  | 7660.8  |
| 55°   | 7639.7 | 7528.0 | 7724.9 | 8255.2 | 9041.9 | 9126.1  | 8267.1  | 8010.7  | 8390.7  | 9184.8  | 8470.5  |
| 57.5° | 7369.5 | 7375.1 | 7678.2 | 8372.4 | 9562.1 | 9976.0  | 9373.4  | 8988.8  | 9337.7  | 10241.5 | 9209.5  |
| 60°   | 6997.7 | 7048.1 | 7485.1 | 8353.2 | 9978.7 | 10672.9 | 10730.6 | 10042.9 | 10265.4 | 11202.3 | 9821.2  |
| 62.5° | 6397.9 | 6451.0 | 7053.7 | 8153.5 | 9915.5 | 11344.2 | 11957.8 | 11239.0 | 11235.2 | 11784.7 | 10000.7 |
| 65°   | 5451.8 | 5436.3 | 6069.2 | 7407.1 | 9385.3 | 11840.7 | 13176.7 | 12272.9 | 11966.1 | 11793.9 | 9639.8  |
| 67.5° | 4020.4 | 3950.9 | 4494.0 | 5641.4 | 7800.9 | 11284.8 | 13893.9 | 12811.4 | 12215.1 | 11018.1 | 8537.2  |
| 70°   | 2086.2 | 2016.6 | 2456.2 | 3294.1 | 5130.4 | 8807.4  | 13099.8 | 12532.9 | 11664.7 | 9236.0  | 6688.2  |
| 72.5° | 892.0  | 880.1  | 1058.7 | 1445.2 | 2481.9 | 5080.0  | 10271.8 | 10847.8 | 10008.9 | 6881.4  | 4598.2  |
| 75°   | 599.9  | 596.2  | 663.1  | 787.6  | 1116.4 | 2061.5  | 6428.2  | 7700.1  | 7322.9  | 4266.8  | 2586.2  |
| 77.5° | 470.7  | 466.1  | 505.6  | 566.0  | 723.6  | 813.2   | 2852.8  | 4134.1  | 3826.3  | 1857.3  | 1131.9  |
| 80°   | 368.2  | 364.5  | 389.2  | 422.2  | 520.2  | 512.9   | 938.7   | 1644.8  | 1273.0  | 711.6   | 550.4   |
| 82.5° | 290.3  | 290.3  | 310.6  | 311.4  | 369.1  | 349.8   | 489.9   | 724.4   | 635.6   | 414.8   | 337.1   |
| 85°   | 265.6  | 265.6  | 286.7  | 232.6  | 240.8  | 220.7   | 304.1   | 429.5   | 402.9   | 170.3   | 146.5   |
| 87.5° | 133.8  | 130.0  | 240.8  | 206.1  | 131.0  | 117.2   | 148.4   | 207.9   | 223.4   | 94.3    | 73.3    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 | 2338.0 |
| 2.5°  | 2327.1 | 2326.1 | 2328.0 | 2329.0 | 2336.3 | 2346.4 | 2350.9 | 2357.3 | 2361.0 | 2359.1 |
| 5°    | 2299.6 | 2301.4 | 2308.7 | 2314.2 | 2327.1 | 2343.6 | 2352.7 | 2360.1 | 2366.4 | 2363.8 |
| 7.5°  | 2276.8 | 2281.4 | 2292.3 | 2296.8 | 2304.2 | 2308.7 | 2307.9 | 2310.7 | 2316.1 | 2309.7 |
| 10°   | 2263.9 | 2269.5 | 2277.6 | 2271.2 | 2253.8 | 2229.1 | 2206.2 | 2194.3 | 2198.0 | 2193.4 |
| 12.5° | 2251.1 | 2258.4 | 2252.0 | 2221.8 | 2173.2 | 2141.2 | 2123.8 | 2125.6 | 2133.9 | 2135.7 |
| 15°   | 2243.7 | 2246.5 | 2219.0 | 2162.2 | 2112.7 | 2108.1 | 2117.3 | 2115.6 | 2116.5 | 2116.5 |
| 17.5° | 2243.7 | 2236.4 | 2185.1 | 2128.4 | 2107.3 | 2099.1 | 2070.7 | 2035.0 | 2019.3 | 2013.8 |
| 20°   | 2255.6 | 2236.4 | 2174.2 | 2136.6 | 2090.7 | 2020.3 | 1945.2 | 1879.3 | 1850.0 | 1841.7 |
| 22.5° | 2291.3 | 2258.4 | 2205.3 | 2140.3 | 2010.3 | 1892.1 | 1773.1 | 1694.3 | 1641.2 | 1632.0 |
| 25°   | 2363.8 | 2327.1 | 2266.7 | 2091.8 | 1882.0 | 1713.5 | 1577.9 | 1490.1 | 1436.9 | 1429.5 |
| 27.5° | 2490.1 | 2466.3 | 2299.6 | 1984.5 | 1711.6 | 1531.3 | 1405.7 | 1338.0 | 1298.6 | 1296.0 |
| 30°   | 2680.5 | 2668.6 | 2283.1 | 1826.2 | 1502.0 | 1354.5 | 1294.0 | 1254.7 | 1225.4 | 1224.5 |
| 32.5° | 2984.6 | 2888.5 | 2229.1 | 1632.9 | 1310.6 | 1229.0 | 1204.2 | 1180.4 | 1157.6 | 1157.6 |
| 35°   | 3375.7 | 3066.2 | 2126.5 | 1426.0 | 1194.2 | 1159.5 | 1128.3 | 1090.7 | 1060.5 | 1058.7 |
| 37.5° | 3835.4 | 3176.0 | 1942.4 | 1259.2 | 1139.2 | 1112.7 | 1066.9 | 1011.0 | 957.9  | 948.8  |
| 40°   | 4299.8 | 3209.1 | 1683.2 | 1156.7 | 1104.5 | 1066.1 | 1010.1 | 944.2  | 892.9  | 890.1  |
| 42.5° | 4725.6 | 3145.8 | 1408.6 | 1086.1 | 1069.6 | 1018.4 | 959.8  | 901.2  | 860.9  | 860.0  |
| 45°   | 5082.7 | 2981.9 | 1177.7 | 1019.3 | 1033.0 | 975.3  | 923.1  | 875.5  | 844.3  | 838.0  |
| 47.5° | 5418.9 | 2750.2 | 1015.7 | 948.8  | 996.5  | 951.5  | 907.6  | 862.7  | 832.4  | 827.8  |
| 50°   | 5809.0 | 2500.2 | 902.1  | 880.1  | 964.3  | 943.4  | 920.4  | 873.6  | 823.3  | 817.8  |
| 52.5° | 6281.6 | 2284.1 | 813.2  | 819.7  | 939.6  | 954.3  | 953.4  | 904.7  | 816.9  | 809.6  |
| 55°   | 6809.1 | 2044.1 | 746.4  | 770.2  | 929.6  | 974.5  | 961.6  | 934.1  | 822.4  | 811.4  |
| 57.5° | 7328.3 | 1763.9 | 699.7  | 732.7  | 914.9  | 972.6  | 922.2  | 882.9  | 835.2  | 819.7  |
| 60°   | 7717.6 | 1387.5 | 664.0  | 699.7  | 882.9  | 942.4  | 879.2  | 827.0  | 832.4  | 820.5  |
| 62.5° | 7743.2 | 1072.4 | 620.9  | 671.3  | 834.3  | 912.2  | 850.8  | 802.3  | 844.3  | 833.4  |
| 65°   | 7288.0 | 810.4  | 579.7  | 637.4  | 782.1  | 892.9  | 823.3  | 788.6  | 869.1  | 857.2  |
| 67.5° | 6136.0 | 652.1  | 544.8  | 602.6  | 729.9  | 852.7  | 798.5  | 775.7  | 891.1  | 870.0  |
| 70°   | 4429.8 | 555.9  | 511.0  | 560.5  | 683.2  | 806.9  | 776.7  | 752.8  | 831.6  | 798.5  |
| 72.5° | 2727.3 | 481.8  | 472.5  | 504.7  | 647.5  | 759.3  | 743.6  | 709.7  | 749.2  | 722.5  |
| 75°   | 1361.8 | 417.6  | 429.5  | 449.7  | 597.1  | 705.2  | 688.7  | 654.8  | 660.3  | 654.8  |
| 77.5° | 652.1  | 357.2  | 379.1  | 394.8  | 532.1  | 643.9  | 626.4  | 591.6  | 585.2  | 586.1  |
| 80°   | 413.0  | 298.6  | 319.6  | 330.6  | 475.3  | 572.4  | 555.0  | 520.2  | 593.5  | 550.4  |
| 82.5° | 258.3  | 242.7  | 248.2  | 268.3  | 414.0  | 498.2  | 475.3  | 444.1  | 534.9  | 423.2  |
| 85°   | 142.9  | 169.5  | 176.8  | 194.2  | 318.7  | 416.8  | 393.8  | 354.4  | 317.8  | 312.3  |
| 87.5° | 85.2   | 100.7  | 103.5  | 116.4  | 214.2  | 301.3  | 266.5  | 252.7  | 209.7  | 208.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)