

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: P194103

Luminaire Tested: **GAN-AF-05-LED-U-T4W-8030-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-8030-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19477 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

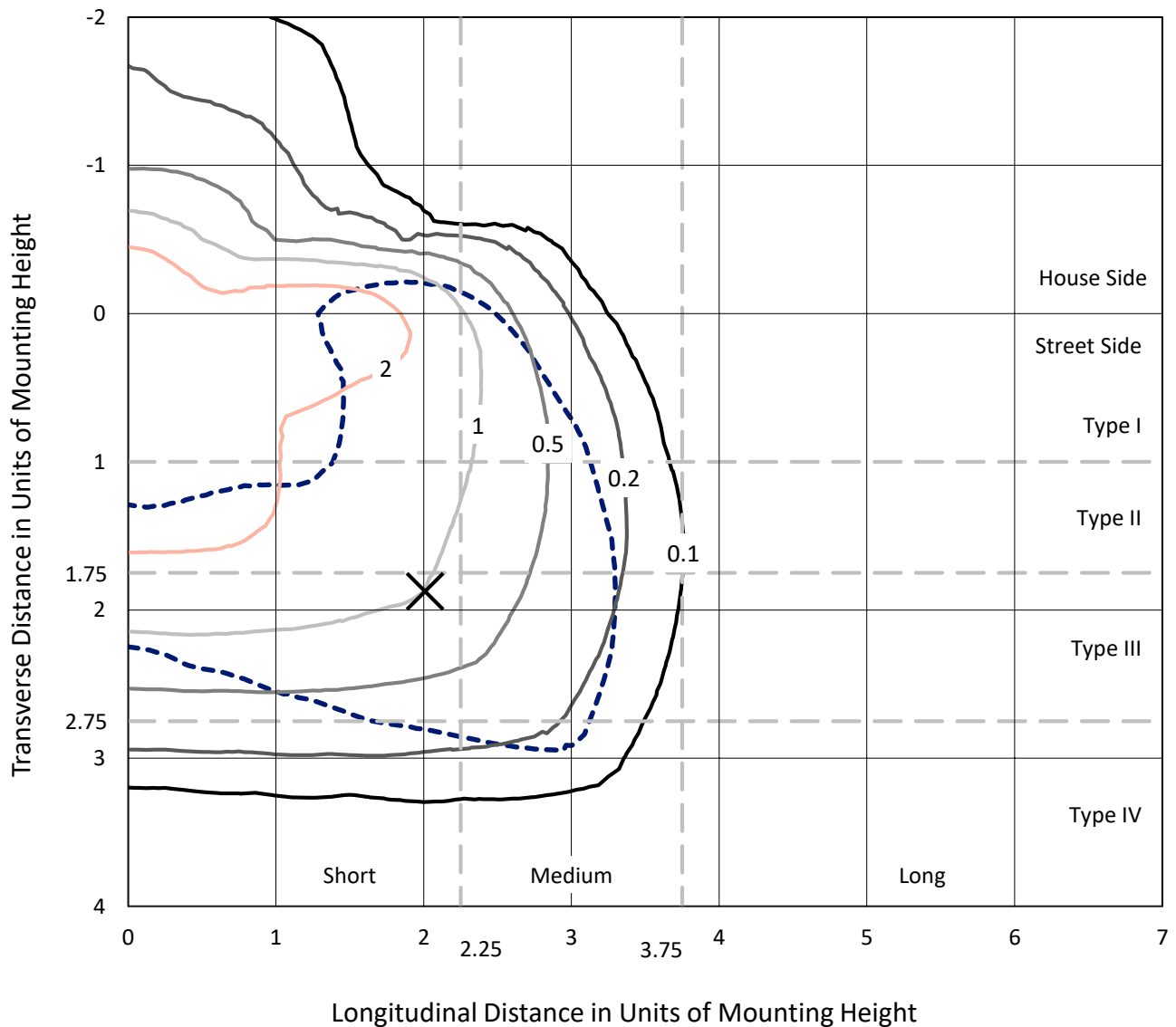
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

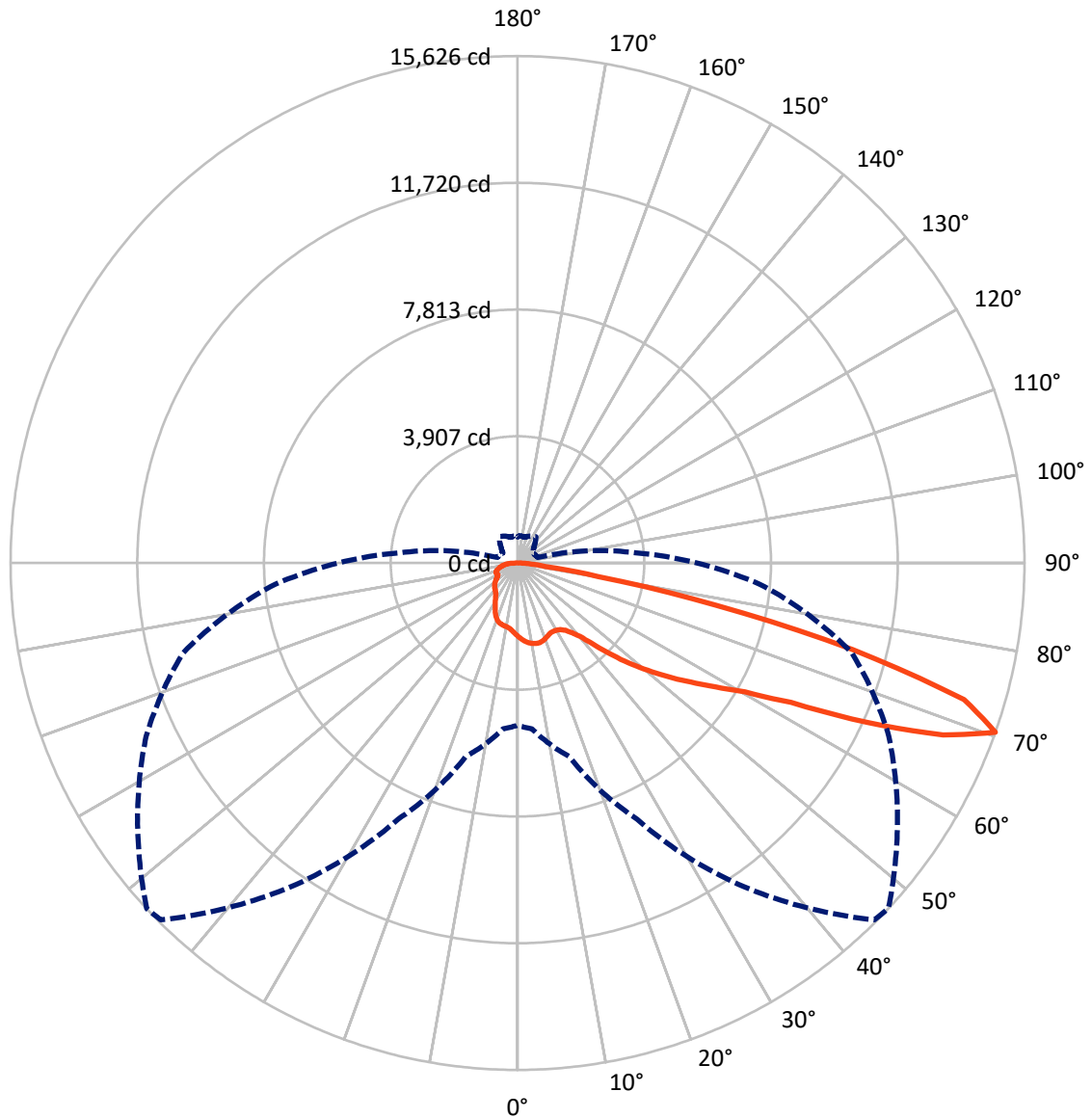


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4063.3   | 0.0    | 4063.3  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 15413.7  | 0.0    | 15413.7 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 19477.0  | 0.0    | 19477.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 216.5   | 1.1       |
| 10°-20°   | 635.3   | 3.3       |
| 20°-30°   | 938.1   | 4.8       |
| 30°-40°   | 1363.5  | 7.0       |
| 40°-50°   | 2453.9  | 12.6      |
| 50°-60°   | 4251.1  | 21.8      |
| 60°-70°   | 6067.6  | 31.2      |
| 70°-80°   | 3114.8  | 16.0      |
| 80°-90°   | 436.1   | 2.2       |
| 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°    | 19477.0 | 100.0     |
| 0°-180°   | 19477.0 | 100.0     |



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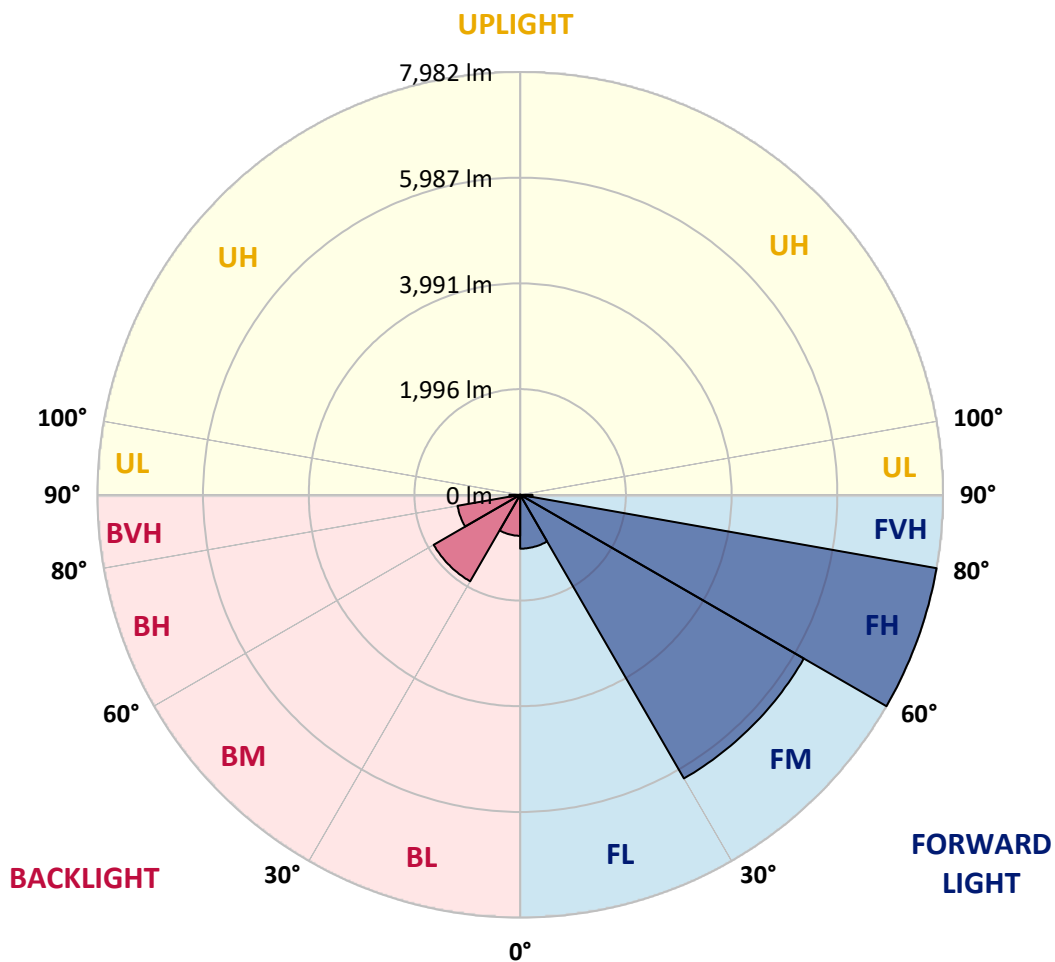
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1016.3 | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 6182.5 | 31.7      |                         |      |          |
| FH   | (60°-80°)   | 7982.2 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 232.7  | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 773.7  | 4.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1886.1 | 9.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1200.2 | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 203.4  | 1.0       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2259.9 | 2259.9 | 2259.9 | 2259.9  | 2259.9  | 2259.9  | 2259.9  | 2259.9  | 2259.9  | 2259.9  | 2259.9  |
| 2.5°  | 2392.6 | 2387.9 | 2386.0 | 2382.2  | 2377.4  | 2353.7  | 2349.0  | 2332.0  | 2308.3  | 2283.6  | 2258.0  |
| 5°    | 2549.9 | 2548.9 | 2538.5 | 2519.6  | 2489.2  | 2437.1  | 2424.8  | 2383.1  | 2327.2  | 2273.2  | 2219.2  |
| 7.5°  | 2688.2 | 2679.7 | 2659.8 | 2621.9  | 2568.8  | 2497.8  | 2480.7  | 2422.9  | 2346.2  | 2272.3  | 2199.3  |
| 10°   | 2789.6 | 2784.9 | 2741.3 | 2689.2  | 2620.0  | 2541.4  | 2521.5  | 2457.0  | 2372.7  | 2278.9  | 2187.9  |
| 12.5° | 2847.4 | 2838.0 | 2787.7 | 2725.2  | 2642.8  | 2566.0  | 2546.1  | 2480.7  | 2386.0  | 2278.9  | 2171.8  |
| 15°   | 2843.6 | 2837.0 | 2786.8 | 2718.6  | 2635.2  | 2567.9  | 2549.9  | 2484.5  | 2383.1  | 2269.4  | 2151.0  |
| 17.5° | 2767.8 | 2770.7 | 2728.0 | 2660.8  | 2592.5  | 2541.4  | 2525.3  | 2464.6  | 2364.2  | 2250.5  | 2126.3  |
| 20°   | 2635.2 | 2648.4 | 2620.0 | 2560.3  | 2522.4  | 2487.4  | 2476.9  | 2425.8  | 2334.8  | 2223.0  | 2099.8  |
| 22.5° | 2502.5 | 2514.8 | 2503.5 | 2453.2  | 2447.6  | 2426.7  | 2421.0  | 2384.1  | 2309.2  | 2205.9  | 2083.7  |
| 25°   | 2404.9 | 2416.3 | 2414.4 | 2370.8  | 2387.9  | 2386.9  | 2382.2  | 2364.2  | 2303.5  | 2205.9  | 2086.5  |
| 27.5° | 2378.4 | 2382.2 | 2378.4 | 2338.6  | 2362.3  | 2381.2  | 2377.4  | 2374.6  | 2320.6  | 2233.4  | 2122.5  |
| 30°   | 2469.3 | 2463.7 | 2434.3 | 2353.7  | 2375.5  | 2402.1  | 2398.3  | 2400.2  | 2371.8  | 2305.4  | 2203.1  |
| 32.5° | 2832.3 | 2806.7 | 2713.8 | 2487.4  | 2429.6  | 2443.8  | 2445.7  | 2476.9  | 2481.7  | 2416.3  | 2328.2  |
| 35°   | 3375.2 | 3346.8 | 3226.5 | 2845.5  | 2597.3  | 2548.0  | 2548.0  | 2595.4  | 2623.8  | 2575.5  | 2522.4  |
| 37.5° | 3950.4 | 3919.1 | 3854.7 | 3342.1  | 2949.8  | 2729.0  | 2724.2  | 2757.4  | 2798.2  | 2809.5  | 2822.8  |
| 40°   | 4604.2 | 4571.0 | 4589.0 | 3899.2  | 3441.5  | 3042.6  | 2975.3  | 2951.7  | 3061.6  | 3134.5  | 3240.7  |
| 42.5° | 5319.6 | 5304.5 | 5311.1 | 4519.9  | 4001.6  | 3511.7  | 3416.0  | 3293.7  | 3426.4  | 3556.2  | 3778.9  |
| 45°   | 5982.0 | 5995.2 | 5988.6 | 5184.1  | 4625.1  | 4084.0  | 3982.6  | 3745.7  | 3875.5  | 4098.2  | 4461.1  |
| 47.5° | 6561.9 | 6506.9 | 6592.2 | 5910.0  | 5323.4  | 4724.6  | 4599.5  | 4282.0  | 4413.7  | 4688.5  | 5302.6  |
| 50°   | 7265.9 | 7258.3 | 7133.3 | 6878.4  | 6167.7  | 5367.9  | 5204.0  | 4836.4  | 5041.0  | 5422.9  | 6362.9  |
| 52.5° | 8006.0 | 7868.6 | 7753.9 | 7631.7  | 7063.1  | 6027.4  | 5826.6  | 5388.8  | 5778.2  | 6258.7  | 7655.4  |
| 55°   | 8157.6 | 8096.0 | 8238.1 | 8443.7  | 7926.4  | 6712.5  | 6478.5  | 6081.5  | 6608.3  | 7213.8  | 9145.9  |
| 57.5° | 8481.6 | 8480.7 | 8774.4 | 9141.1  | 8815.2  | 7439.3  | 7203.4  | 6918.2  | 7541.7  | 8308.2  | 10728.3 |
| 60°   | 8700.5 | 8762.1 | 9307.9 | 10019.5 | 9687.9  | 8278.9  | 8061.9  | 7883.7  | 8602.9  | 9531.5  | 12202.7 |
| 62.5° | 8815.2 | 8898.6 | 9643.4 | 10375.8 | 10921.6 | 9676.5  | 9459.5  | 9202.7  | 10007.2 | 10873.3 | 13065.0 |
| 65°   | 8338.6 | 8502.5 | 9591.2 | 10683.8 | 12001.8 | 11942.1 | 11844.5 | 11393.5 | 11763.1 | 11933.6 | 12753.3 |
| 67.5° | 7019.5 | 7187.3 | 8455.1 | 10396.7 | 12773.2 | 14127.2 | 14148.1 | 13377.7 | 12843.3 | 12024.6 | 10722.6 |
| 70°   | 5001.2 | 5133.0 | 6181.9 | 8716.6  | 12185.7 | 15555.2 | 15626.3 | 14292.1 | 12628.2 | 10663.9 | 7491.4  |
| 72.5° | 2374.6 | 2455.1 | 3448.2 | 5673.1  | 9669.9  | 14252.3 | 14389.7 | 13124.7 | 10737.8 | 7895.1  | 4086.8  |
| 75°   | 872.7  | 897.3  | 1165.5 | 2413.4  | 5608.6  | 10510.4 | 10672.4 | 9408.4  | 7118.1  | 3930.5  | 1556.8  |
| 77.5° | 523.1  | 539.2  | 653.8  | 1018.6  | 2205.9  | 6007.6  | 6247.3  | 5116.8  | 3110.9  | 1463.0  | 765.6   |
| 80°   | 365.8  | 377.1  | 469.0  | 633.9   | 1042.3  | 2289.3  | 2502.5  | 2088.4  | 1239.4  | 925.8   | 557.2   |
| 82.5° | 247.3  | 253.0  | 329.8  | 428.3   | 692.7   | 817.7   | 882.2   | 928.6   | 835.8   | 688.9   | 353.4   |
| 85°   | 162.0  | 167.7  | 223.6  | 282.4   | 440.6   | 422.6   | 432.1   | 546.7   | 610.2   | 468.1   | 196.1   |
| 87.5° | 92.9   | 96.7   | 134.6  | 150.7   | 216.0   | 179.1   | 181.0   | 288.1   | 390.4   | 315.5   | 119.4   |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2259.9  | 2259.9 | 2259.9 | 2259.9 | 2259.9 | 2259.9 | 2259.9 | 2259.9 | 2259.9 | 2259.9 | 2259.9 |
| 2.5°  | 2251.4  | 2239.1 | 2211.6 | 2194.6 | 2178.4 | 2174.7 | 2168.0 | 2167.1 | 2166.1 | 2166.1 | 2163.3 |
| 5°    | 2201.2  | 2180.3 | 2137.7 | 2114.0 | 2094.1 | 2092.2 | 2091.3 | 2096.0 | 2097.9 | 2099.8 | 2097.0 |
| 7.5°  | 2169.0  | 2140.5 | 2087.5 | 2053.4 | 2029.7 | 2024.0 | 2033.5 | 2055.3 | 2069.5 | 2075.2 | 2072.3 |
| 10°   | 2149.1  | 2114.0 | 2052.4 | 2015.5 | 1995.6 | 1992.7 | 2005.0 | 2030.6 | 2060.0 | 2071.4 | 2070.4 |
| 12.5° | 2126.3  | 2086.5 | 2021.2 | 1982.3 | 1970.9 | 1976.6 | 1992.7 | 2016.4 | 2046.7 | 2064.7 | 2065.7 |
| 15°   | 2103.6  | 2057.2 | 1989.9 | 1955.8 | 1951.0 | 1958.6 | 1973.8 | 1991.8 | 2015.5 | 2033.5 | 2035.4 |
| 17.5° | 2076.1  | 2027.8 | 1960.5 | 1925.4 | 1921.7 | 1925.4 | 1926.4 | 1935.9 | 1951.0 | 1968.1 | 1972.8 |
| 20°   | 2046.7  | 1997.5 | 1927.3 | 1892.3 | 1875.2 | 1860.1 | 1843.0 | 1844.9 | 1849.6 | 1866.7 | 1870.5 |
| 22.5° | 2025.9  | 1976.6 | 1901.8 | 1853.4 | 1808.0 | 1762.5 | 1728.4 | 1723.6 | 1725.5 | 1739.7 | 1744.5 |
| 25°   | 2027.8  | 1975.7 | 1895.1 | 1811.7 | 1712.2 | 1639.3 | 1593.8 | 1586.2 | 1585.3 | 1595.7 | 1602.3 |
| 27.5° | 2064.7  | 2012.6 | 1919.8 | 1769.1 | 1608.0 | 1500.0 | 1451.7 | 1446.0 | 1438.4 | 1441.2 | 1448.8 |
| 30°   | 2147.2  | 2098.9 | 1979.5 | 1725.5 | 1495.3 | 1363.5 | 1313.3 | 1307.6 | 1297.2 | 1292.5 | 1298.2 |
| 32.5° | 2281.7  | 2241.9 | 2066.6 | 1683.8 | 1382.5 | 1247.0 | 1195.8 | 1183.5 | 1176.9 | 1171.2 | 1175.9 |
| 35°   | 2505.4  | 2488.3 | 2183.2 | 1638.3 | 1283.0 | 1157.0 | 1110.5 | 1091.6 | 1082.1 | 1092.5 | 1100.1 |
| 37.5° | 2856.0  | 2865.4 | 2335.7 | 1567.3 | 1206.2 | 1097.3 | 1058.4 | 1036.6 | 1022.4 | 1030.9 | 1039.5 |
| 40°   | 3352.5  | 3359.1 | 2504.4 | 1466.8 | 1139.9 | 1062.2 | 1020.5 | 1000.6 | 980.7  | 965.6  | 964.6  |
| 42.5° | 4004.4  | 3937.1 | 2670.2 | 1357.9 | 1063.2 | 1040.4 | 994.0  | 969.4  | 939.0  | 897.3  | 888.8  |
| 45°   | 4777.6  | 4541.7 | 2796.3 | 1232.8 | 976.9  | 1013.9 | 964.6  | 930.5  | 883.1  | 837.6  | 832.9  |
| 47.5° | 5668.3  | 5190.8 | 2857.9 | 1103.0 | 896.4  | 975.0  | 928.6  | 874.6  | 814.9  | 792.2  | 789.3  |
| 50°   | 6756.1  | 5961.1 | 2887.2 | 976.9  | 826.3  | 923.9  | 876.5  | 813.0  | 762.8  | 758.1  | 755.2  |
| 52.5° | 7994.6  | 6887.8 | 2896.7 | 873.7  | 768.5  | 857.5  | 833.9  | 772.3  | 732.5  | 736.3  | 736.3  |
| 55°   | 9290.9  | 7844.9 | 2767.8 | 798.8  | 715.4  | 789.3  | 805.4  | 756.2  | 723.0  | 738.2  | 743.8  |
| 57.5° | 10481.0 | 8692.9 | 2362.3 | 741.0  | 665.2  | 737.2  | 795.0  | 771.3  | 748.6  | 810.2  | 814.0  |
| 60°   | 11394.4 | 9194.2 | 1764.4 | 688.9  | 628.2  | 719.2  | 822.5  | 829.1  | 834.8  | 981.7  | 1001.6 |
| 62.5° | 11585.9 | 9027.4 | 1212.9 | 648.1  | 611.2  | 734.4  | 872.7  | 873.7  | 867.0  | 969.4  | 981.7  |
| 65°   | 10707.5 | 7972.8 | 882.2  | 625.4  | 597.0  | 761.8  | 915.3  | 895.4  | 851.9  | 929.6  | 906.8  |
| 67.5° | 8503.4  | 6006.6 | 734.4  | 608.3  | 576.1  | 759.9  | 960.8  | 915.3  | 843.3  | 910.6  | 873.7  |
| 70°   | 5519.6  | 3632.0 | 653.8  | 594.1  | 551.5  | 723.9  | 987.4  | 913.5  | 818.7  | 847.1  | 803.5  |
| 72.5° | 2693.0  | 1624.1 | 599.8  | 573.3  | 525.9  | 673.7  | 986.4  | 896.4  | 793.1  | 791.2  | 767.5  |
| 75°   | 1053.7  | 743.8  | 550.5  | 542.0  | 482.3  | 616.9  | 959.9  | 871.8  | 762.8  | 732.5  | 723.9  |
| 77.5° | 616.9   | 530.6  | 488.0  | 495.6  | 430.2  | 560.0  | 921.0  | 829.1  | 721.1  | 685.1  | 675.6  |
| 80°   | 449.1   | 397.0  | 416.0  | 428.3  | 367.7  | 503.2  | 868.9  | 777.0  | 674.7  | 692.7  | 679.4  |
| 82.5° | 288.1   | 255.8  | 337.3  | 349.7  | 306.1  | 445.4  | 812.1  | 722.0  | 609.3  | 553.4  | 540.1  |
| 85°   | 146.9   | 162.0  | 251.1  | 266.3  | 235.9  | 365.8  | 742.9  | 649.1  | 535.4  | 460.5  | 468.1  |
| 87.5° | 82.4    | 110.9  | 160.1  | 179.1  | 166.8  | 281.4  | 602.7  | 535.4  | 436.8  | 355.3  | 312.7  |
| 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)