

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: P194041

Luminaire Tested: **GAN-AF-03-LED-U-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16632 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 191  
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

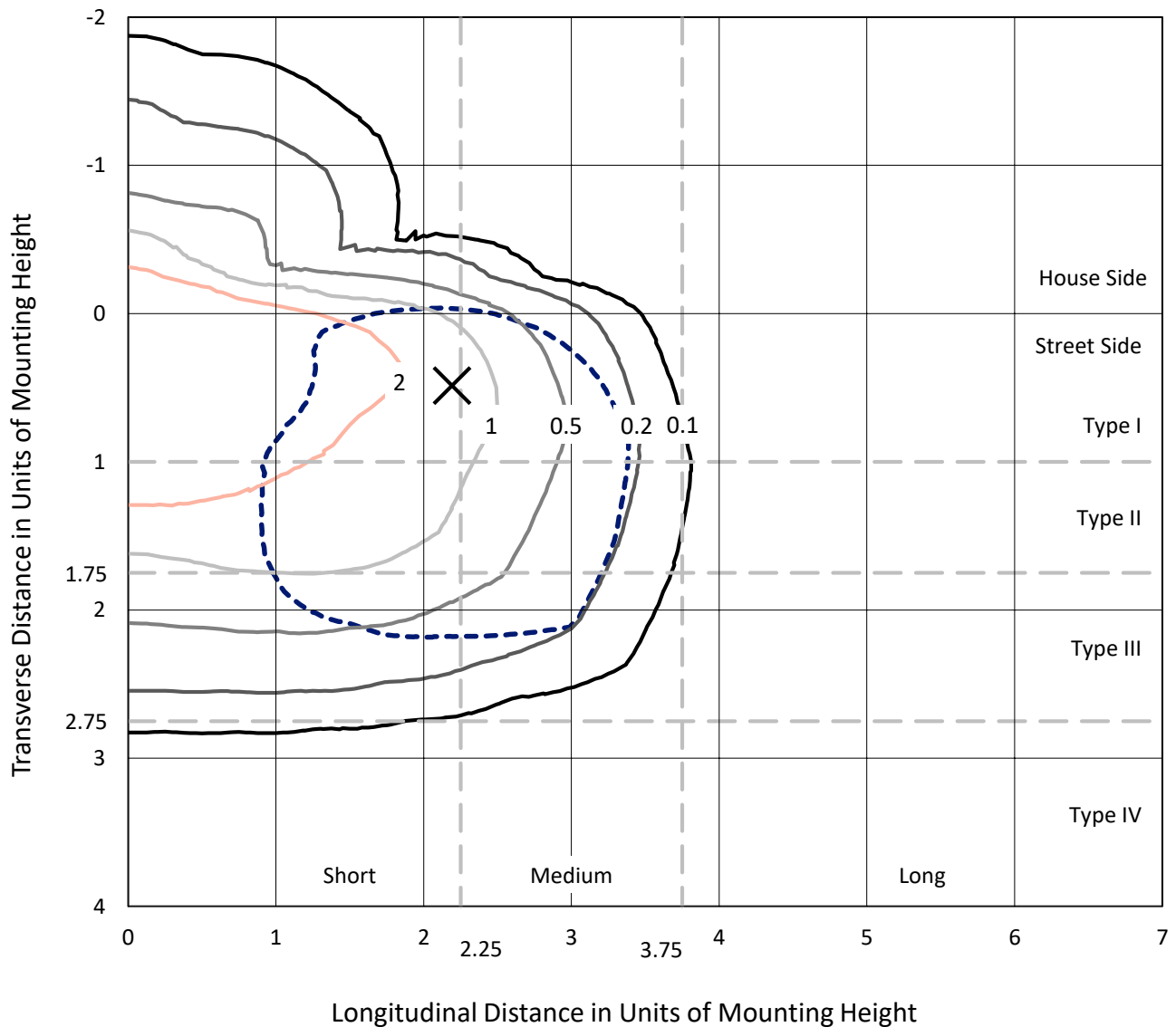


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

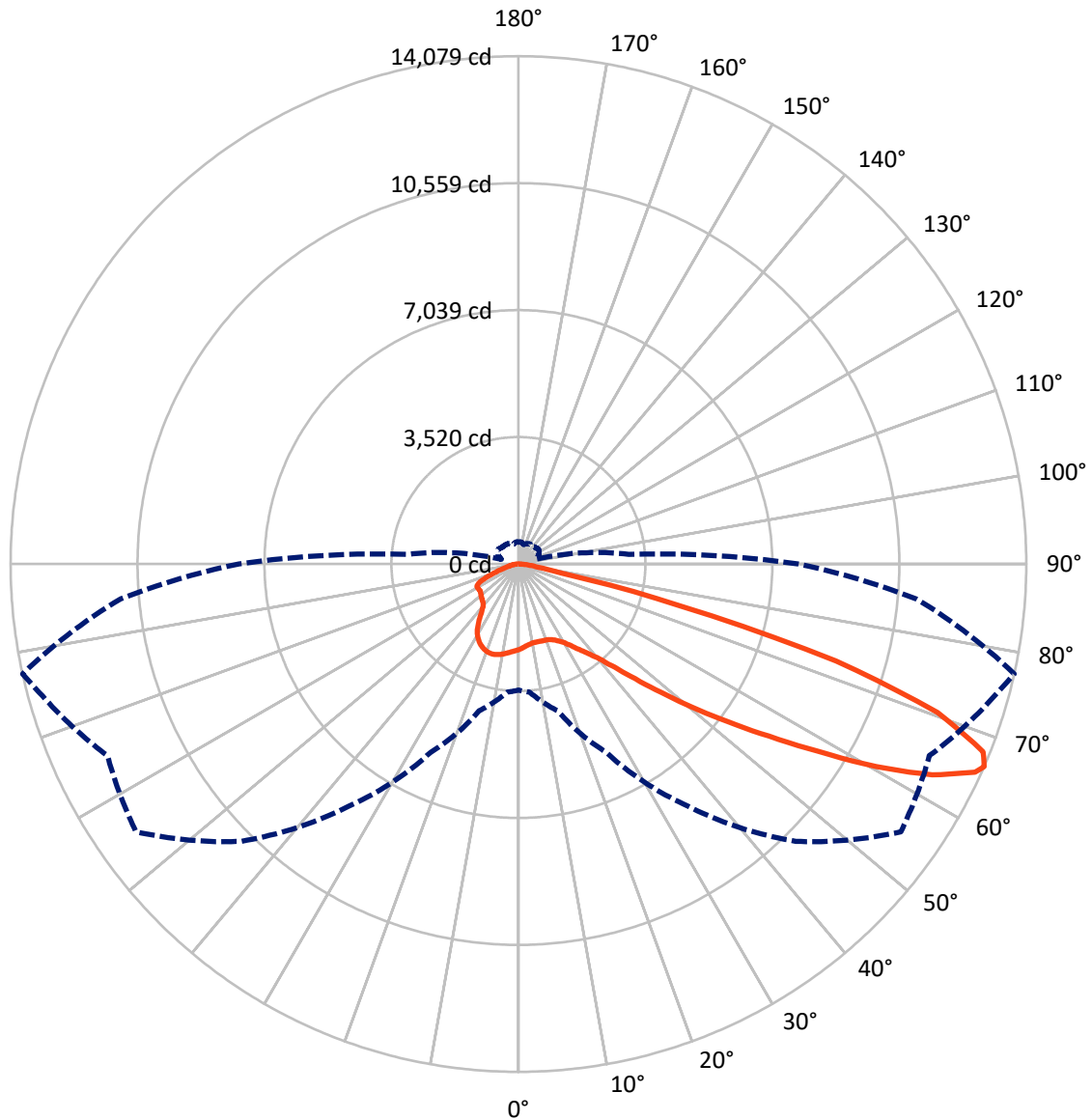


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2841.5   | 0.0    | 2841.5  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 13790.5  | 0.0    | 13790.5 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 16632.0  | 0.0    | 16632.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 211.8   | 1.3       |
| 10°-20°   | 597.4   | 3.6       |
| 20°-30°   | 1019.5  | 6.1       |
| 30°-40°   | 1632.1  | 9.8       |
| 40°-50°   | 2521.4  | 15.2      |
| 50°-60°   | 3576.3  | 21.5      |
| 60°-70°   | 4784.1  | 28.8      |
| 70°-80°   | 2077.6  | 12.5      |
| 80°-90°   | 211.9   | 1.3       |
| 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°    | 16632.0 | 100.0     |
| 0°-180°   | 16632.0 | 100.0     |

**Coefficient of Utilization**



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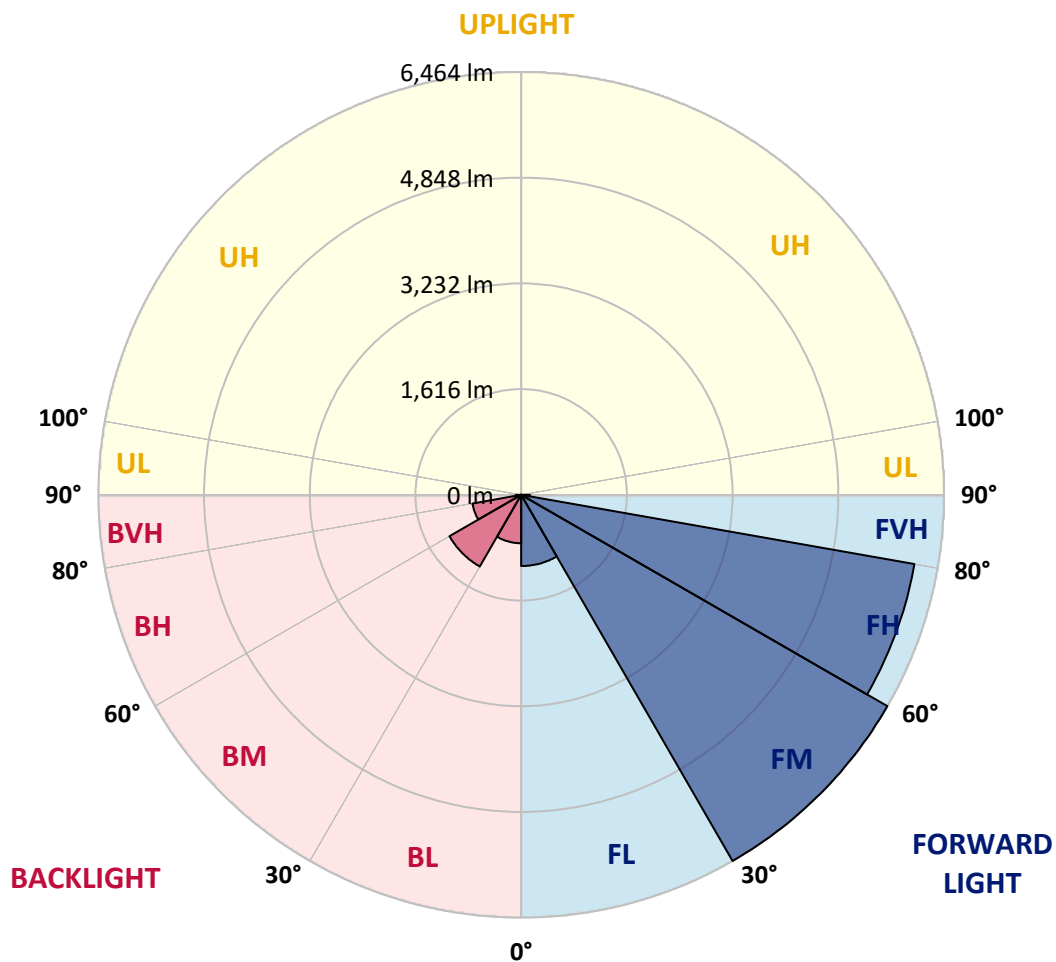
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1088.6 | 6.5       |                         |      |         |
| FM (30°-60°)   | 6464.1 | 38.9      |                         |      |         |
| FH (60°-80°)   | 6104.9 | 36.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 132.9  | 0.8       |                         |      | G2/225  |
| BL (0°-30°)    | 740.0  | 4.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1265.7 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 756.7  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 79.0   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 75°     | 77.5°   | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1  | 2370.1  | 2370.1  | 2370.1  | 2370.1  | 2370.1  |
| 2.5°  | 2096.7 | 2110.8 | 2122.6 | 2133.6 | 2155.6 | 2191.7  | 2233.4  | 2267.2  | 2315.9  | 2325.3  | 2351.3  |
| 5°    | 1904.1 | 1904.1 | 1913.6 | 1930.1 | 1959.9 | 2014.1  | 2070.7  | 2146.2  | 2252.3  | 2277.4  | 2346.6  |
| 7.5°  | 1810.6 | 1811.4 | 1816.9 | 1831.0 | 1857.0 | 1906.5  | 1968.6  | 2057.4  | 2201.2  | 2242.8  | 2360.7  |
| 10°   | 1845.2 | 1837.3 | 1825.5 | 1818.5 | 1822.4 | 1851.5  | 1910.4  | 2009.4  | 2169.7  | 2223.2  | 2392.1  |
| 12.5° | 2038.5 | 2023.6 | 1982.7 | 1928.5 | 1876.6 | 1855.4  | 1890.0  | 1986.6  | 2156.4  | 2218.5  | 2433.8  |
| 15°   | 2354.4 | 2348.1 | 2271.9 | 2159.5 | 2033.8 | 1928.5  | 1904.9  | 1978.0  | 2158.0  | 2224.0  | 2483.3  |
| 17.5° | 2750.5 | 2741.8 | 2641.3 | 2477.8 | 2272.7 | 2067.6  | 1957.6  | 1985.1  | 2163.5  | 2233.4  | 2531.2  |
| 20°   | 3150.5 | 3123.8 | 3015.3 | 2820.4 | 2557.2 | 2257.0  | 2044.8  | 2003.1  | 2170.5  | 2243.6  | 2581.5  |
| 22.5° | 3449.1 | 3427.1 | 3329.7 | 3140.3 | 2836.9 | 2476.2  | 2161.9  | 2034.6  | 2193.3  | 2273.5  | 2643.6  |
| 25°   | 3711.6 | 3713.2 | 3616.5 | 3433.4 | 3119.8 | 2708.8  | 2312.8  | 2118.7  | 2251.5  | 2334.8  | 2728.5  |
| 27.5° | 4036.2 | 4017.3 | 3926.9 | 3745.4 | 3399.6 | 2943.8  | 2495.1  | 2234.2  | 2337.9  | 2422.0  | 2840.1  |
| 30°   | 4424.4 | 4411.0 | 4306.5 | 4100.6 | 3710.0 | 3196.1  | 2703.3  | 2368.6  | 2449.5  | 2536.7  | 2986.2  |
| 32.5° | 4880.9 | 4874.7 | 4766.2 | 4501.4 | 4068.4 | 3493.1  | 2947.7  | 2546.2  | 2616.1  | 2706.5  | 3196.1  |
| 35°   | 5416.9 | 5417.7 | 5289.6 | 4971.3 | 4460.5 | 3838.9  | 3225.1  | 2774.9  | 2818.9  | 2913.2  | 3446.0  |
| 37.5° | 5747.0 | 5787.0 | 5739.1 | 5414.5 | 4904.5 | 4225.5  | 3585.1  | 3078.2  | 3049.9  | 3145.0  | 3714.0  |
| 40°   | 5817.7 | 5866.4 | 6018.1 | 5853.0 | 5401.2 | 4651.5  | 3904.1  | 3369.7  | 3334.4  | 3450.7  | 4058.9  |
| 42.5° | 5718.7 | 5786.3 | 6106.9 | 6223.2 | 5928.5 | 5176.4  | 4333.2  | 3802.8  | 3758.0  | 3914.3  | 4488.0  |
| 45°   | 5659.7 | 5710.0 | 6080.9 | 6415.7 | 6385.9 | 5769.7  | 4879.4  | 4346.6  | 4330.1  | 4535.2  | 4983.1  |
| 47.5° | 5557.6 | 5603.1 | 5959.9 | 6460.5 | 6654.6 | 6313.6  | 5535.6  | 5011.4  | 5043.6  | 5312.4  | 5541.9  |
| 50°   | 5612.6 | 5631.4 | 5824.8 | 6346.6 | 6732.4 | 6712.0  | 6268.8  | 5781.5  | 5891.6  | 6227.1  | 6174.5  |
| 52.5° | 5604.7 | 5653.4 | 5809.0 | 6159.5 | 6742.6 | 6958.0  | 6991.0  | 6640.5  | 6872.3  | 7257.4  | 6876.2  |
| 55°   | 4531.2 | 4620.8 | 5624.4 | 6112.4 | 6778.8 | 7199.2  | 7633.8  | 7545.8  | 7978.0  | 8426.7  | 7668.4  |
| 57.5° | 4326.9 | 4383.5 | 4939.9 | 6211.4 | 6970.5 | 7659.7  | 8348.9  | 8542.2  | 9265.2  | 9786.3  | 8633.4  |
| 60°   | 4286.8 | 4356.8 | 4932.8 | 6332.4 | 7359.5 | 8410.2  | 9409.0  | 9748.5  | 10831.4 | 11402.0 | 9752.5  |
| 62.5° | 4161.9 | 4237.3 | 4886.4 | 6316.7 | 7912.0 | 9448.3  | 10766.2 | 11031.0 | 12316.7 | 12871.5 | 10688.4 |
| 65°   | 3765.8 | 3836.5 | 4508.5 | 6062.9 | 8284.5 | 10556.4 | 12372.5 | 12206.7 | 13489.2 | 13906.5 | 11155.2 |
| 66°   | 3494.7 | 3563.9 | 4210.6 | 5764.2 | 8198.0 | 10870.7 | 12941.5 | 12570.5 | 13751.7 | 14078.6 | 11064.1 |
| 67.5° | 2998.8 | 3053.0 | 3632.2 | 5095.5 | 7738.3 | 10958.7 | 13420.0 | 12844.0 | 13779.2 | 13894.7 | 10543.0 |
| 70°   | 1894.7 | 1910.4 | 2360.7 | 3517.5 | 5857.8 | 9504.1  | 12691.6 | 12165.0 | 12642.8 | 12330.1 | 8838.5  |
| 72.5° | 822.0  | 816.5  | 1133.2 | 1789.4 | 3316.3 | 6377.2  | 10266.4 | 10037.7 | 9917.5  | 9203.9  | 6187.0  |
| 75°   | 457.4  | 463.7  | 588.6  | 830.6  | 1347.7 | 3132.4  | 6715.9  | 6426.7  | 5426.3  | 4630.3  | 2805.5  |
| 77.5° | 367.0  | 375.6  | 488.0  | 589.4  | 605.1  | 1092.3  | 3142.6  | 2557.2  | 1539.5  | 1235.4  | 779.6   |
| 80°   | 290.0  | 305.7  | 425.9  | 458.9  | 407.9  | 450.3   | 1015.3  | 811.8   | 609.0   | 558.7   | 403.9   |
| 82.5° | 229.5  | 240.5  | 365.4  | 347.3  | 285.3  | 303.3   | 486.4   | 473.9   | 396.1   | 360.7   | 233.4   |
| 85°   | 165.0  | 185.5  | 300.2  | 261.7  | 187.0  | 204.3   | 323.0   | 309.6   | 227.1   | 185.5   | 102.9   |
| 87.5° | 67.6   | 88.0   | 212.2  | 173.7  | 104.5  | 95.1    | 161.1   | 151.7   | 107.7   | 78.6    | 51.1    |
| 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°    | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 | 2370.1 |
| 2.5°  | 2367.8 | 2386.6 | 2411.0 | 2425.9 | 2433.8 | 2439.3 | 2447.9 | 2447.2 | 2449.5 | 2450.3 | 2453.4 |
| 5°    | 2383.5 | 2414.9 | 2450.3 | 2459.7 | 2459.7 | 2451.1 | 2442.4 | 2428.3 | 2422.8 | 2421.2 | 2422.8 |
| 7.5°  | 2424.4 | 2458.9 | 2489.6 | 2478.6 | 2455.0 | 2420.4 | 2375.6 | 2336.3 | 2315.1 | 2308.1 | 2306.5 |
| 10°   | 2476.2 | 2517.9 | 2530.5 | 2488.8 | 2419.6 | 2336.3 | 2247.5 | 2183.1 | 2146.2 | 2136.0 | 2132.8 |
| 12.5° | 2539.1 | 2578.4 | 2561.1 | 2473.1 | 2345.0 | 2210.6 | 2088.0 | 1985.1 | 1908.1 | 1883.7 | 1882.1 |
| 15°   | 2608.3 | 2638.9 | 2578.4 | 2424.4 | 2233.4 | 2035.4 | 1816.9 | 1639.3 | 1543.4 | 1512.8 | 1510.4 |
| 17.5° | 2672.7 | 2688.4 | 2568.2 | 2339.5 | 2069.2 | 1748.5 | 1458.5 | 1321.8 | 1288.8 | 1296.7 | 1298.2 |
| 20°   | 2727.7 | 2727.7 | 2533.6 | 2217.7 | 1810.6 | 1370.5 | 1187.4 | 1185.1 | 1208.6 | 1232.2 | 1236.9 |
| 22.5° | 2788.2 | 2752.1 | 2473.1 | 2045.6 | 1444.4 | 1121.4 | 1094.7 | 1116.7 | 1143.4 | 1169.4 | 1173.3 |
| 25°   | 2862.9 | 2771.7 | 2389.0 | 1784.7 | 1135.6 | 1018.5 | 1028.7 | 1046.8 | 1060.1 | 1076.6 | 1079.0 |
| 27.5° | 2946.2 | 2796.9 | 2278.2 | 1425.5 | 985.5  | 954.0  | 961.9  | 968.2  | 966.6  | 972.9  | 974.5  |
| 30°   | 3046.0 | 2825.9 | 2126.5 | 1114.3 | 923.4  | 899.0  | 884.9  | 879.4  | 879.4  | 889.6  | 893.5  |
| 32.5° | 3179.6 | 2869.2 | 1908.8 | 954.8  | 893.5  | 859.7  | 814.1  | 793.7  | 801.6  | 836.1  | 844.0  |
| 35°   | 3326.5 | 2915.5 | 1614.1 | 900.6  | 887.2  | 841.7  | 770.9  | 733.2  | 734.0  | 766.2  | 776.4  |
| 37.5° | 3486.8 | 2974.5 | 1291.2 | 890.4  | 901.4  | 842.4  | 748.1  | 696.3  | 675.0  | 675.0  | 679.0  |
| 40°   | 3691.9 | 3035.0 | 1045.2 | 897.4  | 931.2  | 851.9  | 736.3  | 667.2  | 607.5  | 609.0  | 612.2  |
| 42.5° | 3959.1 | 3086.8 | 913.2  | 912.4  | 967.4  | 864.4  | 735.6  | 628.7  | 576.8  | 612.2  | 644.4  |
| 45°   | 4256.2 | 3112.8 | 855.0  | 925.7  | 996.5  | 872.3  | 723.0  | 622.4  | 580.7  | 686.1  | 747.3  |
| 47.5° | 4598.0 | 3097.8 | 822.8  | 930.5  | 1003.5 | 872.3  | 708.8  | 637.3  | 608.3  | 794.5  | 866.0  |
| 50°   | 4972.9 | 3054.6 | 791.4  | 921.0  | 1001.2 | 870.7  | 722.2  | 652.3  | 618.5  | 813.4  | 862.9  |
| 52.5° | 5413.8 | 3018.5 | 758.4  | 900.6  | 984.7  | 862.1  | 737.9  | 646.0  | 586.2  | 739.5  | 774.1  |
| 55°   | 5916.7 | 3028.7 | 721.4  | 871.5  | 958.7  | 845.6  | 732.4  | 620.8  | 552.5  | 651.5  | 672.7  |
| 57.5° | 6559.5 | 3150.5 | 677.4  | 834.6  | 923.4  | 818.1  | 712.8  | 609.0  | 542.2  | 591.0  | 603.5  |
| 60°   | 7277.0 | 3362.7 | 622.4  | 797.6  | 879.4  | 774.1  | 697.8  | 614.5  | 547.0  | 586.2  | 592.5  |
| 62.5° | 7803.5 | 3486.1 | 575.2  | 743.4  | 819.6  | 725.3  | 679.0  | 621.6  | 559.5  | 602.8  | 601.2  |
| 65°   | 7946.6 | 3283.3 | 516.3  | 664.0  | 738.7  | 674.3  | 655.4  | 629.5  | 565.0  | 616.1  | 609.0  |
| 66°   | 7746.2 | 3064.8 | 490.4  | 627.1  | 697.8  | 649.1  | 643.6  | 628.7  | 562.7  | 617.7  | 605.9  |
| 67.5° | 7259.7 | 2616.9 | 445.6  | 572.9  | 632.6  | 611.4  | 624.8  | 621.6  | 556.4  | 616.1  | 599.6  |
| 70°   | 5920.6 | 1785.5 | 381.1  | 477.0  | 526.5  | 538.3  | 588.6  | 596.5  | 536.0  | 588.6  | 552.5  |
| 72.5° | 4136.7 | 1087.6 | 337.1  | 370.1  | 425.9  | 458.9  | 539.1  | 561.9  | 508.4  | 513.9  | 479.4  |
| 75°   | 1999.2 | 577.6  | 305.7  | 286.8  | 330.8  | 383.5  | 479.4  | 514.7  | 465.2  | 429.9  | 417.3  |
| 77.5° | 623.2  | 352.8  | 259.3  | 231.0  | 259.3  | 309.6  | 400.8  | 451.1  | 414.1  | 359.9  | 355.2  |
| 80°   | 334.8  | 259.3  | 199.6  | 185.5  | 205.1  | 242.8  | 315.1  | 376.4  | 356.0  | 323.0  | 288.4  |
| 82.5° | 220.8  | 168.2  | 147.7  | 143.8  | 156.4  | 185.5  | 234.2  | 312.0  | 312.0  | 276.6  | 201.2  |
| 85°   | 113.9  | 102.9  | 101.4  | 101.4  | 109.2  | 123.4  | 159.5  | 240.5  | 256.2  | 146.2  | 121.0  |
| 87.5° | 56.6   | 58.9   | 55.0   | 57.4   | 61.3   | 60.5   | 76.2   | 121.0  | 144.6  | 88.8   | 73.9   |
| 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)