

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: P321041

Luminaire Tested: **GAN-SA7B-760-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7B-760-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41468 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 295  
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: 24 FT



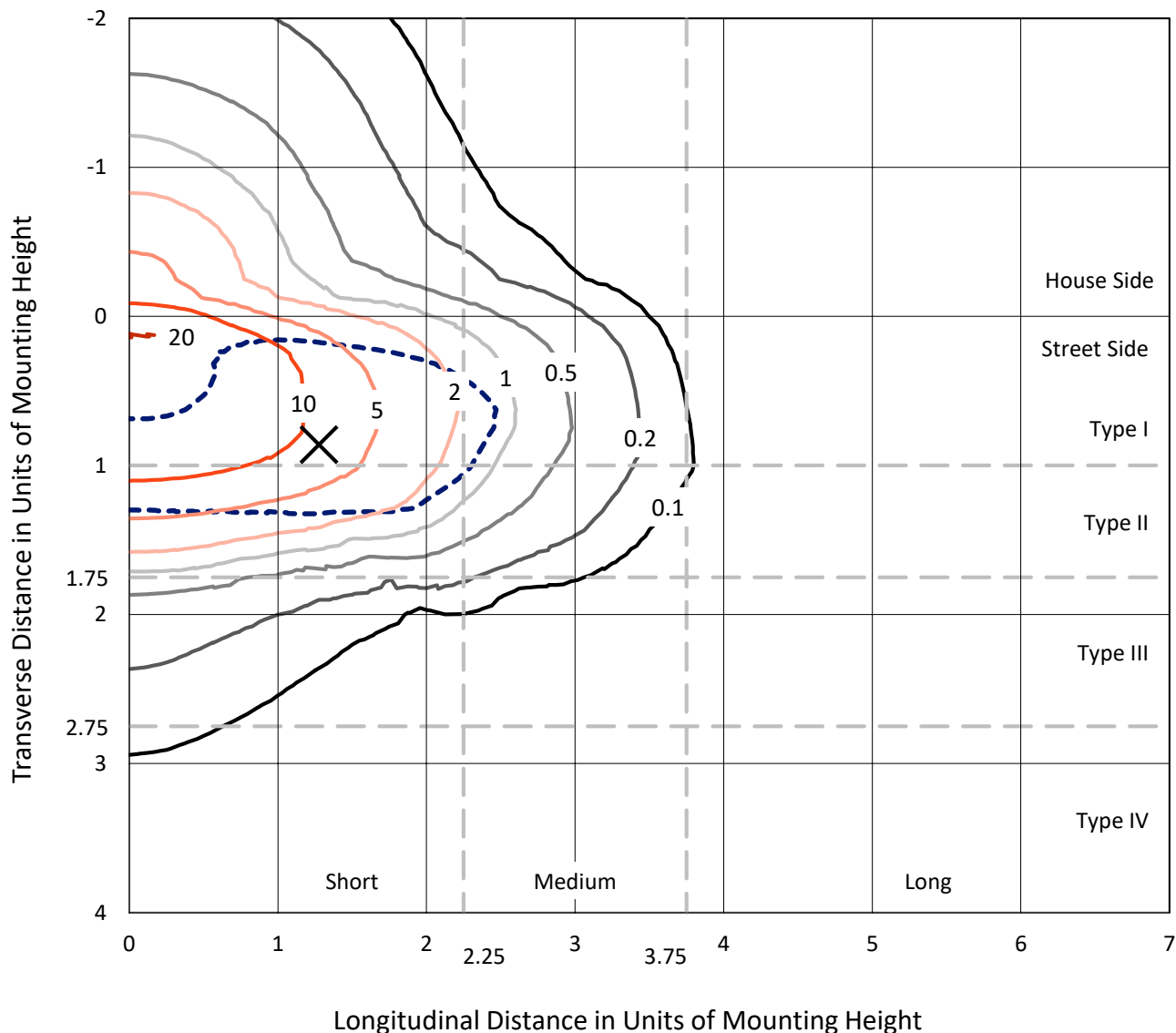
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

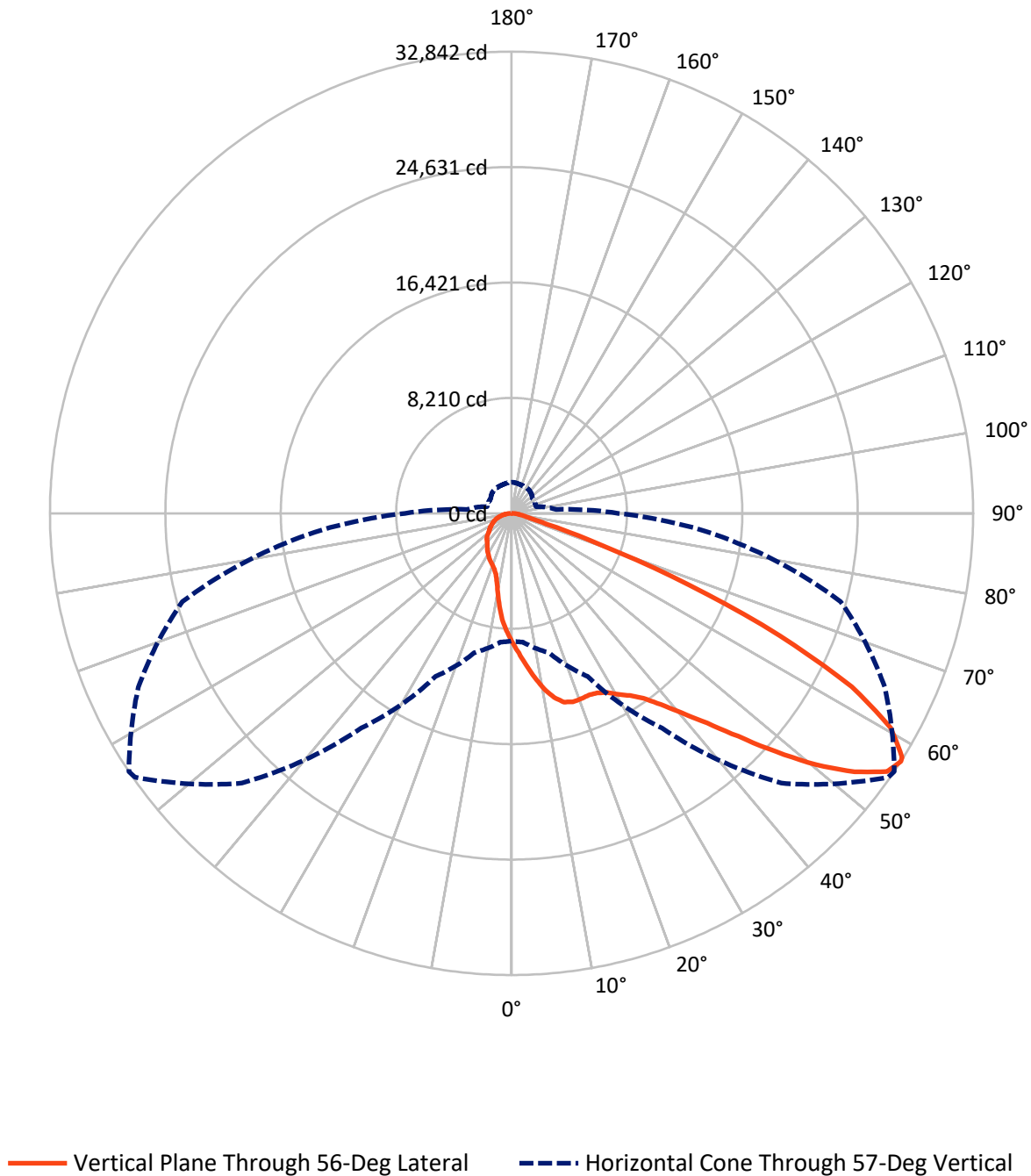


Based on 25 foot mounting height. Maximum calculated value = 20.4 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7148.2   | 0.0    | 7148.2  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 34319.8  | 0.0    | 34319.8 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 41468.0  | 0.0    | 41468.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 878.6   | 2.1       |
| 10°-20°   | 2484.0  | 6.0       |
| 20°-30°   | 4046.0  | 9.8       |
| 30°-40°   | 6048.3  | 14.6      |
| 40°-50°   | 9174.0  | 22.1      |
| 50°-60°   | 10282.4 | 24.8      |
| 60°-70°   | 6073.2  | 14.6      |
| 70°-80°   | 1989.8  | 4.8       |
| 80°-90°   | 491.6   | 1.2       |
| 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°    | 41468.0 | 100.0     |
| 0°-180°   | 41468.0 | 100.0     |

**Coefficient of Utilization**



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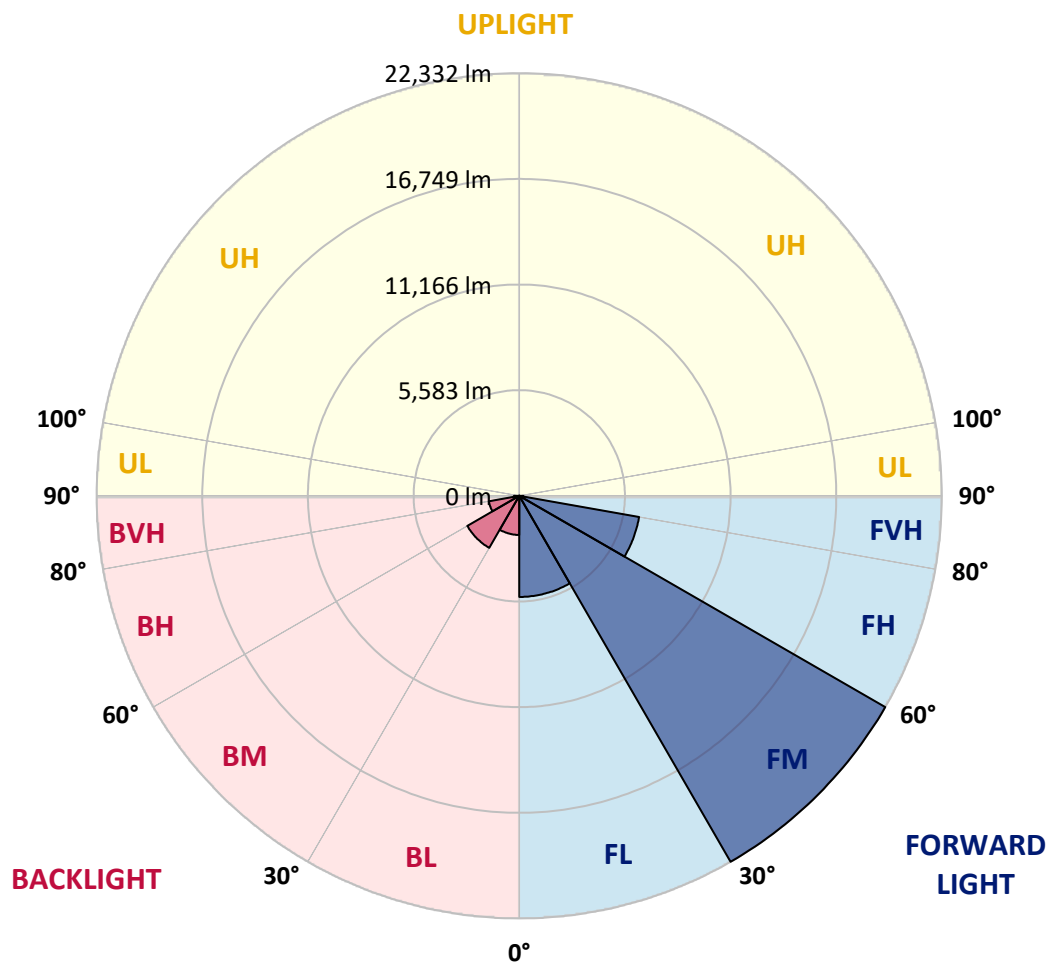
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5341.7  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 22331.9 | 53.9      |                         |      |         |
| FH   | (60°-80°)   | 6429.7  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 216.5   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2066.9  | 5.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3172.8  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1633.3  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 275.1   | 0.7       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  | 9197.6  |
| 2.5°  | 10561.5 | 10658.4 | 10615.6 | 10467.4 | 10353.4 | 10192.4 | 10012.8 | 9958.6  | 9769.1  | 9556.8  | 9301.7  |
| 5°    | 12233.1 | 12184.7 | 12114.8 | 11884.0 | 11640.3 | 11356.7 | 10906.3 | 10835.1 | 10413.3 | 9933.0  | 9425.7  |
| 7.5°  | 13185.1 | 13180.8 | 13139.5 | 13004.1 | 12781.8 | 12411.3 | 11868.3 | 11784.2 | 11147.2 | 10374.8 | 9588.1  |
| 10°   | 13046.9 | 13036.9 | 13105.3 | 13246.4 | 13313.3 | 13236.4 | 12778.9 | 12694.9 | 11912.5 | 10863.6 | 9776.2  |
| 12.5° | 12261.6 | 12267.3 | 12377.1 | 12673.5 | 13076.8 | 13561.3 | 13487.2 | 13445.9 | 12706.3 | 11416.5 | 10004.3 |
| 15°   | 11650.2 | 11663.1 | 11750.0 | 12008.0 | 12483.9 | 13363.2 | 13917.6 | 13931.8 | 13474.4 | 12026.5 | 10270.7 |
| 17.5° | 11382.3 | 11409.4 | 11449.3 | 11630.3 | 12066.4 | 12968.5 | 14020.2 | 14097.2 | 14147.0 | 12659.2 | 10527.3 |
| 20°   | 11467.8 | 11493.5 | 11504.9 | 11620.3 | 11978.0 | 12729.1 | 13948.9 | 14087.2 | 14662.9 | 13254.9 | 10783.8 |
| 22.5° | 11851.2 | 11866.9 | 11874.0 | 11903.9 | 12181.8 | 12797.5 | 13901.9 | 14047.3 | 15036.3 | 13789.3 | 10977.6 |
| 25°   | 12486.8 | 12475.4 | 12429.8 | 12391.3 | 12578.0 | 13068.2 | 14010.2 | 14148.5 | 15339.9 | 14273.9 | 11104.4 |
| 27.5° | 13247.8 | 13233.5 | 13145.2 | 13039.7 | 13146.6 | 13490.1 | 14322.3 | 14432.1 | 15612.0 | 14727.1 | 11168.6 |
| 30°   | 14161.3 | 14124.2 | 13957.5 | 13832.1 | 13873.4 | 14122.8 | 14836.8 | 14936.5 | 16032.5 | 15241.5 | 11231.3 |
| 32.5° | 15217.3 | 15177.4 | 14936.5 | 14728.5 | 14728.5 | 14936.5 | 15366.9 | 15449.6 | 16388.7 | 15823.0 | 11332.5 |
| 35°   | 16539.8 | 16489.9 | 16176.4 | 15827.2 | 15728.9 | 15834.4 | 16089.5 | 16147.9 | 17030.0 | 16555.5 | 11516.3 |
| 37.5° | 18098.9 | 18031.9 | 17625.7 | 17158.3 | 16943.1 | 16937.4 | 17121.2 | 17240.9 | 18054.7 | 17517.4 | 11828.4 |
| 40°   | 19662.2 | 19615.2 | 19260.3 | 18892.6 | 18470.8 | 18335.4 | 18619.0 | 18656.1 | 19394.3 | 18711.7 | 12227.4 |
| 42.5° | 20870.7 | 20862.1 | 20796.6 | 20845.0 | 20413.2 | 20139.6 | 20361.9 | 20391.9 | 21030.3 | 20004.2 | 12652.1 |
| 45°   | 21509.1 | 21523.4 | 21841.2 | 22545.2 | 22704.8 | 22505.3 | 22615.0 | 22623.6 | 22900.0 | 21308.2 | 13041.2 |
| 47.5° | 20997.5 | 21071.6 | 21875.4 | 23450.1 | 24757.0 | 25419.6 | 25237.2 | 25342.7 | 24712.8 | 22428.3 | 13346.1 |
| 50°   | 19003.8 | 19095.0 | 20463.1 | 23046.8 | 25714.6 | 28239.9 | 28144.4 | 28120.2 | 26174.9 | 23249.2 | 13511.4 |
| 52.5° | 16534.1 | 16605.3 | 17734.0 | 20950.5 | 25012.1 | 29799.0 | 30675.4 | 30550.0 | 27474.6 | 23863.4 | 13542.8 |
| 55°   | 12773.2 | 12884.4 | 13966.0 | 16766.4 | 22170.4 | 29203.3 | 32536.6 | 32424.0 | 28658.9 | 24185.5 | 13505.7 |
| 57°   | 9080.8  | 9197.6  | 10272.2 | 12796.0 | 18650.4 | 27141.2 | 32721.9 | 32841.6 | 29298.8 | 24239.6 | 13547.1 |
| 57.5° | 8103.2  | 8222.9  | 9287.4  | 11738.6 | 17553.0 | 26395.8 | 32562.3 | 32761.8 | 29414.2 | 24231.1 | 13569.9 |
| 60°   | 4080.1  | 4125.7  | 4804.0  | 6552.6  | 11095.9 | 21339.6 | 30480.2 | 30994.7 | 29518.2 | 23812.1 | 13668.2 |
| 62.5° | 2536.7  | 2503.9  | 2482.5  | 3018.4  | 5398.3  | 14151.3 | 26183.5 | 27173.9 | 27527.4 | 22797.4 | 13430.2 |
| 65°   | 2230.3  | 2169.0  | 1933.9  | 1891.1  | 2384.2  | 6873.3  | 19717.8 | 20950.5 | 23273.4 | 21198.5 | 12863.0 |
| 67.5° | 2094.9  | 2035.1  | 1770.0  | 1610.4  | 1611.8  | 2724.8  | 12241.7 | 13629.7 | 18130.2 | 18495.0 | 11524.8 |
| 70°   | 1955.2  | 1901.1  | 1653.1  | 1465.0  | 1372.4  | 1509.2  | 5632.0  | 6685.2  | 11818.4 | 14537.5 | 9632.3  |
| 72.5° | 1775.7  | 1738.6  | 1503.5  | 1309.7  | 1211.3  | 1130.1  | 2156.2  | 2546.7  | 6841.9  | 9763.4  | 6689.5  |
| 75°   | 1587.6  | 1553.4  | 1352.4  | 1167.2  | 1047.5  | 889.3   | 1214.2  | 1308.2  | 3475.8  | 4995.0  | 3293.4  |
| 77.5° | 1380.9  | 1361.0  | 1202.8  | 1031.8  | 936.3   | 736.8   | 859.3   | 904.9   | 1490.7  | 2141.9  | 1651.7  |
| 80°   | 1098.8  | 1137.2  | 1051.7  | 919.2   | 830.8   | 590.0   | 608.5   | 638.4   | 867.9   | 1046.0  | 937.7   |
| 82.5° | 715.4   | 782.4   | 823.7   | 746.8   | 684.1   | 464.6   | 437.5   | 450.3   | 565.8   | 638.4   | 407.6   |
| 85°   | 297.8   | 334.9   | 541.5   | 488.8   | 454.6   | 339.2   | 293.6   | 299.3   | 350.6   | 363.4   | 166.7   |
| 87.5° | 132.5   | 141.1   | 238.0   | 223.7   | 192.4   | 116.9   | 125.4   | 136.8   | 186.7   | 176.7   | 64.1    |
| 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°    | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 | 9197.6 |
| 2.5°  | 9206.2 | 9086.5 | 8881.3 | 8654.7 | 8469.4 | 8321.2 | 8171.6 | 8069.0 | 7949.2 | 7885.1 | 7852.3 |
| 5°    | 9213.3 | 8978.2 | 8546.4 | 8103.2 | 7707.0 | 7345.0 | 7000.1 | 6735.1 | 6487.1 | 6353.1 | 6316.1 |
| 7.5°  | 9243.2 | 8889.8 | 8191.5 | 7461.9 | 6757.9 | 6115.1 | 5619.2 | 5308.5 | 5084.8 | 4985.0 | 4956.5 |
| 10°   | 9267.5 | 8785.8 | 7752.6 | 6672.4 | 5714.7 | 5063.4 | 4678.6 | 4504.8 | 4427.8 | 4415.0 | 4402.2 |
| 12.5° | 9324.5 | 8678.9 | 7290.8 | 5848.6 | 4903.8 | 4453.5 | 4319.5 | 4308.1 | 4329.5 | 4360.8 | 4360.8 |
| 15°   | 9414.3 | 8573.4 | 6763.6 | 5141.8 | 4387.9 | 4229.7 | 4256.8 | 4319.5 | 4377.9 | 4426.4 | 4433.5 |
| 17.5° | 9479.8 | 8443.8 | 6196.4 | 4576.0 | 4112.9 | 4155.6 | 4252.5 | 4340.9 | 4400.7 | 4447.8 | 4452.0 |
| 20°   | 9526.8 | 8242.8 | 5590.7 | 4144.2 | 3954.7 | 4087.2 | 4208.3 | 4286.7 | 4328.0 | 4375.1 | 4382.2 |
| 22.5° | 9502.6 | 7973.5 | 5053.4 | 3835.0 | 3826.4 | 3987.4 | 4102.9 | 4196.9 | 4165.6 | 4120.0 | 4149.9 |
| 25°   | 9385.8 | 7602.9 | 4500.5 | 3604.1 | 3691.0 | 3853.5 | 3996.0 | 3933.3 | 3827.8 | 3807.9 | 3819.3 |
| 27.5° | 9177.7 | 7129.8 | 3988.9 | 3390.3 | 3534.3 | 3729.5 | 3721.0 | 3658.2 | 3621.2 | 3595.5 | 3611.2 |
| 30°   | 8953.9 | 6616.8 | 3541.4 | 3203.6 | 3360.4 | 3521.4 | 3488.7 | 3487.2 | 3450.2 | 3408.9 | 3428.8 |
| 32.5° | 8733.1 | 6100.9 | 3186.5 | 3049.7 | 3229.3 | 3250.7 | 3321.9 | 3343.3 | 3270.6 | 3183.7 | 3178.0 |
| 35°   | 8540.7 | 5613.5 | 2917.2 | 2910.1 | 3071.1 | 3074.0 | 3178.0 | 3148.1 | 2967.1 | 2877.3 | 2877.3 |
| 37.5° | 8396.7 | 5127.5 | 2712.0 | 2784.7 | 2863.0 | 2937.1 | 2989.9 | 2865.9 | 2836.0 | 2786.1 | 2784.7 |
| 40°   | 8334.0 | 4700.0 | 2583.7 | 2689.2 | 2716.3 | 2810.3 | 2674.9 | 2723.4 | 2737.6 | 2712.0 | 2712.0 |
| 42.5° | 8268.5 | 4328.0 | 2472.6 | 2616.5 | 2612.2 | 2599.4 | 2531.0 | 2593.7 | 2650.7 | 2652.1 | 2647.8 |
| 45°   | 8202.9 | 4007.4 | 2374.2 | 2461.2 | 2521.0 | 2382.8 | 2395.6 | 2462.6 | 2542.4 | 2570.9 | 2570.9 |
| 47.5° | 8130.2 | 3753.7 | 2284.4 | 2297.3 | 2389.9 | 2297.3 | 2287.3 | 2338.6 | 2432.7 | 2478.3 | 2488.2 |
| 50°   | 7970.6 | 3525.7 | 2181.8 | 2153.3 | 2179.0 | 2210.3 | 2218.9 | 2243.1 | 2347.2 | 2419.8 | 2436.9 |
| 52.5° | 7749.7 | 3321.9 | 2050.7 | 2020.8 | 2020.8 | 2139.1 | 2179.0 | 2186.1 | 2274.5 | 2361.4 | 2378.5 |
| 55°   | 7565.9 | 3192.2 | 1915.3 | 1909.6 | 1903.9 | 2063.6 | 2132.0 | 2143.4 | 2204.6 | 2273.0 | 2281.6 |
| 57°   | 7578.7 | 3182.3 | 1811.3 | 1817.0 | 1815.6 | 1986.6 | 2087.8 | 2112.0 | 2143.4 | 2201.8 | 2211.8 |
| 57.5° | 7585.8 | 3189.4 | 1788.5 | 1791.4 | 1789.9 | 1965.2 | 2075.0 | 2102.0 | 2126.3 | 2187.5 | 2197.5 |
| 60°   | 7692.7 | 3207.9 | 1695.9 | 1664.5 | 1671.7 | 1851.2 | 2002.3 | 2036.5 | 2052.2 | 2133.4 | 2146.2 |
| 62.5° | 7534.5 | 3125.3 | 1621.8 | 1546.2 | 1546.2 | 1731.5 | 1901.1 | 1955.2 | 1979.5 | 2089.2 | 2110.6 |
| 65°   | 7075.7 | 2893.0 | 1534.8 | 1412.3 | 1426.5 | 1611.8 | 1780.0 | 1868.3 | 1905.4 | 2042.2 | 2065.0 |
| 67.5° | 6367.4 | 2623.6 | 1442.2 | 1292.6 | 1306.8 | 1486.4 | 1654.5 | 1750.0 | 1808.5 | 1990.9 | 2009.4 |
| 70°   | 5445.3 | 2294.4 | 1316.8 | 1165.7 | 1182.8 | 1349.6 | 1506.3 | 1614.6 | 1701.6 | 1942.4 | 1948.1 |
| 72.5° | 4014.5 | 1881.1 | 1141.5 | 1026.1 | 1044.6 | 1190.0 | 1356.7 | 1482.1 | 1599.0 | 1821.3 | 1818.4 |
| 75°   | 2387.1 | 1470.7 | 947.7  | 885.0  | 897.8  | 1033.2 | 1221.3 | 1373.8 | 1549.1 | 1774.3 | 1801.3 |
| 77.5° | 1447.9 | 1107.3 | 772.4  | 741.1  | 756.7  | 895.0  | 1124.4 | 1286.9 | 1527.7 | 1673.1 | 1664.5 |
| 80°   | 875.0  | 790.9  | 617.1  | 597.1  | 612.8  | 765.3  | 1040.3 | 1221.3 | 1335.3 | 1429.4 | 1429.4 |
| 82.5° | 457.5  | 483.1  | 453.2  | 437.5  | 458.9  | 621.3  | 946.3  | 1066.0 | 1180.0 | 1013.3 | 946.3  |
| 85°   | 186.7  | 252.2  | 275.0  | 273.6  | 286.4  | 430.4  | 816.6  | 912.1  | 761.0  | 722.5  | 739.6  |
| 87.5° | 62.7   | 106.9  | 134.0  | 115.4  | 121.1  | 270.8  | 565.8  | 440.4  | 523.0  | 364.8  | 346.3  |
| 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)