

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: P318343

Luminaire Tested: **GAN-SA9D-727-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58022 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

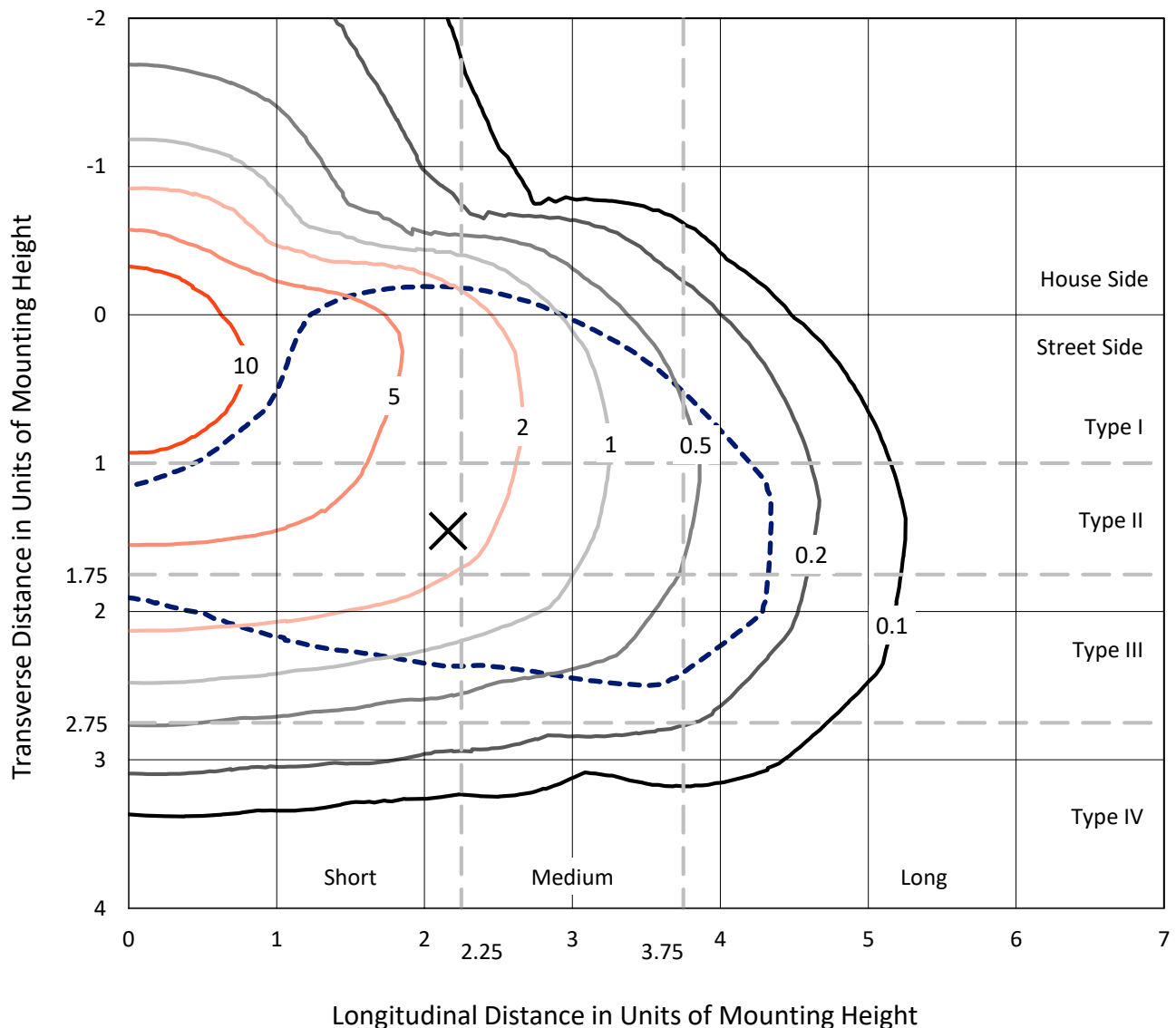
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

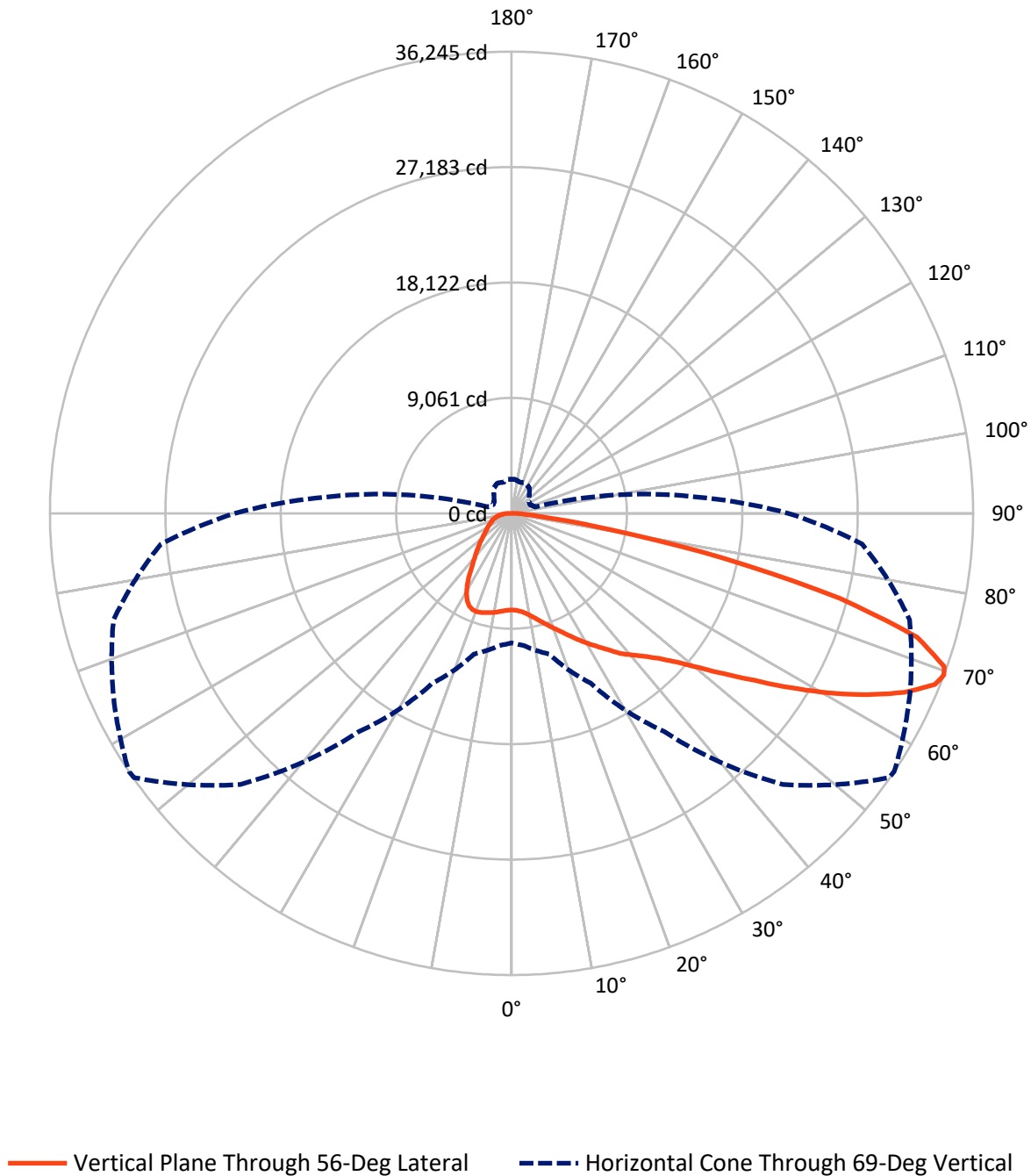
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type III - 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    | 12921.4  | 0.0    | 12921.4 |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 45100.6  | 0.0    | 45100.6 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 58022.0  | 0.0    | 58022.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 745.0   | 1.3       |
| 10°-20°   | 2395.7  | 4.1       |
| 20°-30°   | 4181.9  | 7.2       |
| 30°-40°   | 6007.2  | 10.4      |
| 40°-50°   | 8313.6  | 14.3      |
| 50°-60°   | 12180.6 | 21.0      |
| 60°-70°   | 14850.5 | 25.6      |
| 70°-80°   | 8210.3  | 14.2      |
| 80°-90°   | 1137.1  | 2.0       |
| 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°    | 58022.0 | 100.0     |
| 0°-180°   | 58022.0 | 100.0     |

**Coefficient of Utilization**



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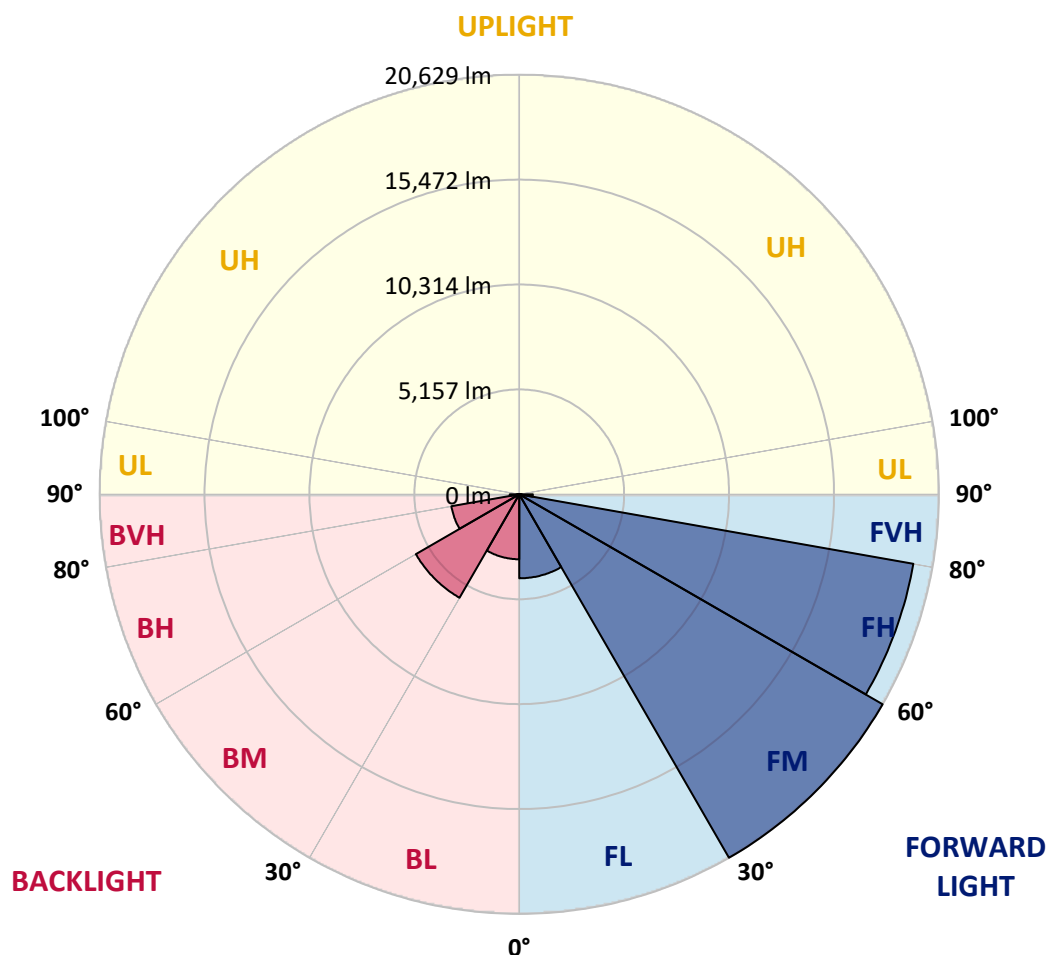
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4129.4  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 20629.0 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 19672.4 | 33.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 669.8   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 3193.2  | 5.5       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5872.5  | 10.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3388.4  | 5.8       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 467.3   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  | 7585.5  |
| 2.5°  | 7633.5  | 7641.5  | 7635.5  | 7651.5  | 7633.5  | 7645.5  | 7635.5  | 7635.5  | 7629.5  | 7611.5  | 7591.5  |
| 5°    | 7753.4  | 7769.4  | 7759.4  | 7775.4  | 7753.4  | 7757.4  | 7739.4  | 7739.4  | 7721.4  | 7683.4  | 7643.5  |
| 7.5°  | 7941.3  | 7959.3  | 7951.3  | 7967.3  | 7937.3  | 7937.3  | 7913.3  | 7911.3  | 7875.3  | 7813.4  | 7767.4  |
| 10°   | 8165.2  | 8189.1  | 8181.1  | 8205.1  | 8181.1  | 8189.1  | 8165.2  | 8165.2  | 8117.2  | 8029.2  | 7971.3  |
| 12.5° | 8491.0  | 8520.9  | 8499.0  | 8497.0  | 8487.0  | 8503.0  | 8483.0  | 8479.0  | 8435.0  | 8315.1  | 8235.1  |
| 15°   | 8926.7  | 8958.7  | 8912.7  | 8908.7  | 8852.8  | 8846.8  | 8846.8  | 8840.8  | 8812.8  | 8668.9  | 8536.9  |
| 17.5° | 9428.4  | 9438.4  | 9398.4  | 9334.5  | 9262.5  | 9216.5  | 9210.5  | 9226.5  | 9226.5  | 9058.6  | 8848.8  |
| 20°   | 9920.1  | 9938.1  | 9906.1  | 9834.2  | 9742.2  | 9674.3  | 9626.3  | 9658.3  | 9656.3  | 9456.4  | 9158.6  |
| 22.5° | 10455.8 | 10497.8 | 10449.8 | 10357.9 | 10249.9 | 10174.0 | 10090.0 | 10118.0 | 10120.0 | 9874.1  | 9462.4  |
| 25°   | 11149.4 | 11111.4 | 11081.4 | 10951.5 | 10797.6 | 10719.6 | 10641.7 | 10669.7 | 10661.7 | 10323.9 | 9776.2  |
| 27.5° | 11763.0 | 11771.0 | 11731.0 | 11593.1 | 11415.2 | 11243.3 | 11239.3 | 11257.3 | 11227.3 | 10791.6 | 10072.0 |
| 30°   | 12476.6 | 12480.6 | 12424.6 | 12300.7 | 12106.8 | 11885.0 | 11833.0 | 11863.0 | 11799.0 | 11235.3 | 10383.8 |
| 32.5° | 13186.2 | 13206.2 | 13144.2 | 12994.3 | 12838.4 | 12568.5 | 12464.6 | 12484.6 | 12324.7 | 11689.1 | 10705.7 |
| 35°   | 13807.8 | 13835.8 | 13815.8 | 13715.9 | 13546.0 | 13314.1 | 13190.2 | 13178.2 | 12980.3 | 12244.7 | 11131.4 |
| 37.5° | 14441.4 | 14467.4 | 14445.4 | 14361.5 | 14293.5 | 14047.7 | 13981.7 | 13981.7 | 13637.9 | 12812.4 | 11673.1 |
| 40°   | 15093.1 | 15133.0 | 15107.0 | 14991.1 | 14933.1 | 14821.2 | 14663.3 | 14625.3 | 14253.6 | 13494.0 | 12556.6 |
| 42.5° | 15698.7 | 15750.7 | 15854.6 | 15786.6 | 15668.7 | 15684.7 | 15366.9 | 15346.9 | 15075.1 | 14501.4 | 13665.9 |
| 45°   | 16558.2 | 16634.1 | 16810.0 | 16758.1 | 16734.1 | 16646.1 | 16268.4 | 16250.4 | 16146.4 | 15856.6 | 15043.1 |
| 47.5° | 17495.6 | 17599.6 | 17917.4 | 17927.4 | 18185.2 | 18019.3 | 17505.6 | 17443.7 | 17467.6 | 17479.6 | 16724.1 |
| 50°   | 18359.1 | 18473.0 | 18994.7 | 19240.6 | 19848.2 | 19884.2 | 19062.7 | 19006.7 | 19100.7 | 19376.5 | 18682.9 |
| 52.5° | 19048.7 | 19192.6 | 19844.2 | 20603.8 | 21645.2 | 21941.0 | 20979.6 | 20937.6 | 21007.5 | 21483.3 | 20897.6 |
| 55°   | 19554.4 | 19710.3 | 20419.9 | 21803.1 | 23466.1 | 23987.8 | 23186.3 | 23146.3 | 23190.3 | 23795.9 | 23306.2 |
| 57.5° | 19672.3 | 19710.3 | 20739.7 | 22610.6 | 25003.2 | 26256.4 | 25886.7 | 25806.7 | 25590.8 | 26118.5 | 25964.6 |
| 60°   | 19118.7 | 19270.6 | 20475.9 | 22894.4 | 26192.5 | 28493.1 | 28709.0 | 28609.0 | 28003.4 | 28435.1 | 28311.2 |
| 62.5° | 17995.3 | 18267.2 | 19490.4 | 22462.7 | 26658.2 | 30320.0 | 31477.3 | 31357.4 | 30314.0 | 30593.9 | 29998.2 |
| 65°   | 16160.4 | 16276.4 | 17561.6 | 20973.6 | 26066.5 | 31489.3 | 33945.9 | 33885.9 | 32572.7 | 32134.9 | 30310.0 |
| 67.5° | 12878.4 | 13096.2 | 14187.6 | 17861.4 | 23646.0 | 31351.4 | 35854.7 | 35848.7 | 34047.8 | 32706.6 | 29204.7 |
| 69°   | 10174.0 | 10399.8 | 11439.2 | 14713.3 | 20923.6 | 30090.2 | 36174.6 | 36244.5 | 34463.6 | 32358.8 | 27625.6 |
| 70°   | 8111.2  | 8373.0  | 9086.6  | 12392.7 | 18507.0 | 28427.1 | 35908.7 | 36034.6 | 34383.6 | 31785.2 | 26168.5 |
| 72.5° | 3452.0  | 3663.8  | 4171.5  | 6388.2  | 11279.3 | 21227.4 | 32832.5 | 33308.3 | 32530.7 | 29090.8 | 21627.2 |
| 75°   | 1507.1  | 1573.1  | 1802.9  | 2604.5  | 5007.0  | 11553.2 | 25720.8 | 26600.2 | 27815.5 | 24589.4 | 16110.4 |
| 77.5° | 1103.3  | 1131.3  | 1257.3  | 1529.1  | 2246.7  | 4363.4  | 16540.2 | 17051.9 | 20060.1 | 17893.4 | 9882.1  |
| 80°   | 853.5   | 873.5   | 971.4   | 1123.3  | 1467.1  | 1765.0  | 7543.5  | 7983.3  | 11279.3 | 9190.6  | 4115.6  |
| 82.5° | 679.6   | 693.6   | 761.5   | 827.5   | 1013.4  | 1069.4  | 2504.5  | 2778.4  | 4163.5  | 2538.5  | 1089.4  |
| 85°   | 631.6   | 647.6   | 671.6   | 603.6   | 649.6   | 627.6   | 1083.4  | 1133.3  | 1257.3  | 997.4   | 455.7   |
| 87.5° | 285.8   | 337.8   | 665.6   | 469.7   | 345.8   | 275.8   | 443.7   | 463.7   | 521.7   | 523.7   | 201.9   |
| 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°    | 7585.5  | 7585.5  | 7585.5 | 7585.5 | 7585.5 | 7585.5 | 7585.5 | 7585.5 | 7585.5 | 7585.5 | 7585.5 |
| 2.5°  | 7603.5  | 7597.5  | 7607.5 | 7583.5 | 7613.5 | 7611.5 | 7601.5 | 7605.5 | 7625.5 | 7623.5 | 7625.5 |
| 5°    | 7649.5  | 7645.5  | 7657.5 | 7639.5 | 7675.4 | 7687.4 | 7689.4 | 7707.4 | 7729.4 | 7735.4 | 7735.4 |
| 7.5°  | 7765.4  | 7765.4  | 7771.4 | 7747.4 | 7771.4 | 7769.4 | 7759.4 | 7777.4 | 7799.4 | 7801.4 | 7799.4 |
| 10°   | 7965.3  | 7967.3  | 7957.3 | 7895.3 | 7875.3 | 7821.4 | 7771.4 | 7773.4 | 7801.4 | 7823.4 | 7829.4 |
| 12.5° | 8217.1  | 8209.1  | 8165.2 | 8051.2 | 7967.3 | 7857.3 | 7805.4 | 7803.4 | 7831.4 | 7849.3 | 7855.3 |
| 15°   | 8505.0  | 8483.0  | 8369.0 | 8183.1 | 8035.2 | 7927.3 | 7843.4 | 7823.4 | 7807.4 | 7787.4 | 7789.4 |
| 17.5° | 8776.8  | 8726.8  | 8536.9 | 8279.1 | 8123.2 | 7979.3 | 7817.4 | 7687.4 | 7597.5 | 7545.5 | 7529.5 |
| 20°   | 9052.6  | 8954.7  | 8680.9 | 8369.0 | 8171.2 | 7909.3 | 7597.5 | 7333.7 | 7169.7 | 7093.8 | 7079.8 |
| 22.5° | 9304.5  | 9146.6  | 8814.8 | 8463.0 | 8133.2 | 7673.5 | 7183.7 | 6800.0 | 6572.1 | 6470.2 | 6478.2 |
| 25°   | 9550.3  | 9330.5  | 8954.7 | 8528.9 | 7941.3 | 7257.7 | 6608.1 | 6136.4 | 5872.5 | 5758.6 | 5754.6 |
| 27.5° | 9766.2  | 9516.4  | 9106.6 | 8475.0 | 7583.5 | 6666.0 | 5926.5 | 5466.8 | 5246.9 | 5148.9 | 5133.0 |
| 30°   | 10014.1 | 9750.2  | 9308.5 | 8269.1 | 7059.8 | 5982.5 | 5260.9 | 4937.1 | 4781.2 | 4683.2 | 4665.2 |
| 32.5° | 10315.9 | 10068.0 | 9474.4 | 7895.3 | 6390.2 | 5268.9 | 4741.2 | 4515.3 | 4373.4 | 4263.5 | 4243.5 |
| 35°   | 10755.6 | 10487.8 | 9516.4 | 7359.6 | 5654.6 | 4705.2 | 4359.4 | 4127.6 | 3935.7 | 3793.8 | 3779.8 |
| 37.5° | 11307.3 | 11013.5 | 9420.4 | 6666.0 | 4941.1 | 4339.4 | 4041.6 | 3755.8 | 3505.9 | 3306.0 | 3274.1 |
| 40°   | 12102.8 | 11659.1 | 9154.6 | 5866.5 | 4415.4 | 4057.6 | 3731.8 | 3406.0 | 3096.2 | 2862.3 | 2816.3 |
| 42.5° | 13058.3 | 12416.6 | 8746.8 | 5071.0 | 4029.6 | 3771.8 | 3424.0 | 3020.2 | 2724.4 | 2558.5 | 2534.5 |
| 45°   | 14273.5 | 13204.2 | 8181.1 | 4375.4 | 3649.8 | 3485.9 | 3092.2 | 2720.4 | 2536.5 | 2414.6 | 2394.6 |
| 47.5° | 15660.7 | 14087.6 | 7587.5 | 3809.7 | 3328.0 | 3218.1 | 2826.3 | 2586.5 | 2440.6 | 2344.6 | 2326.6 |
| 50°   | 17365.7 | 15085.1 | 6957.9 | 3346.0 | 3004.2 | 2896.3 | 2700.4 | 2512.5 | 2396.6 | 2322.6 | 2304.6 |
| 52.5° | 19288.6 | 16210.4 | 6504.1 | 2980.2 | 2736.4 | 2658.4 | 2634.4 | 2472.5 | 2378.6 | 2322.6 | 2304.6 |
| 55°   | 21359.3 | 17355.7 | 6014.4 | 2672.4 | 2504.5 | 2526.5 | 2590.5 | 2476.5 | 2412.6 | 2344.6 | 2318.6 |
| 57.5° | 23432.1 | 18539.0 | 5468.8 | 2412.6 | 2320.6 | 2428.6 | 2560.5 | 2484.5 | 2430.6 | 2364.6 | 2340.6 |
| 60°   | 25071.1 | 19288.6 | 4623.3 | 2194.7 | 2174.7 | 2320.6 | 2488.5 | 2424.6 | 2354.6 | 2356.6 | 2352.6 |
| 62.5° | 25836.7 | 19248.6 | 3689.8 | 2000.8 | 2028.8 | 2174.7 | 2372.6 | 2330.6 | 2272.7 | 2350.6 | 2356.6 |
| 65°   | 25406.9 | 18289.2 | 2872.3 | 1824.9 | 1872.9 | 2022.8 | 2252.7 | 2284.6 | 2304.6 | 2454.5 | 2474.5 |
| 67.5° | 23604.0 | 16422.3 | 2224.7 | 1671.0 | 1731.0 | 1918.9 | 2264.7 | 2488.5 | 2514.5 | 2672.4 | 2670.4 |
| 69°   | 21739.1 | 14671.3 | 1932.9 | 1591.1 | 1661.0 | 1944.8 | 2420.6 | 2618.4 | 2520.5 | 2688.4 | 2664.4 |
| 70°   | 20176.0 | 13286.1 | 1776.9 | 1537.1 | 1629.0 | 1990.8 | 2524.5 | 2616.4 | 2490.5 | 2634.4 | 2594.5 |
| 72.5° | 15538.8 | 9558.3  | 1507.1 | 1437.1 | 1521.1 | 1904.9 | 2554.5 | 2558.5 | 2420.6 | 2448.5 | 2380.6 |
| 75°   | 10657.7 | 6040.4  | 1315.2 | 1301.2 | 1357.2 | 1717.0 | 2458.5 | 2444.6 | 2238.7 | 2198.7 | 2142.7 |
| 77.5° | 5876.5  | 3068.2  | 1117.3 | 1171.3 | 1209.3 | 1521.1 | 2234.7 | 2214.7 | 2044.8 | 1960.8 | 1940.8 |
| 80°   | 2266.7  | 1343.2  | 943.4  | 1041.4 | 1065.4 | 1317.2 | 1958.8 | 1940.8 | 1798.9 | 1691.0 | 1661.0 |
| 82.5° | 855.5   | 703.6   | 779.5  | 901.5  | 893.5  | 1087.4 | 1659.0 | 1649.0 | 1511.1 | 1353.2 | 1305.2 |
| 85°   | 395.8   | 421.7   | 617.6  | 743.6  | 685.6  | 805.5  | 1327.2 | 1345.2 | 1177.3 | 989.4  | 989.4  |
| 87.5° | 167.9   | 235.9   | 437.7  | 561.7  | 461.7  | 543.7  | 973.4  | 929.4  | 853.5  | 591.6  | 555.7  |
| 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)