

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: P529984

Luminaire Tested: **GLAN-SA5A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15992 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

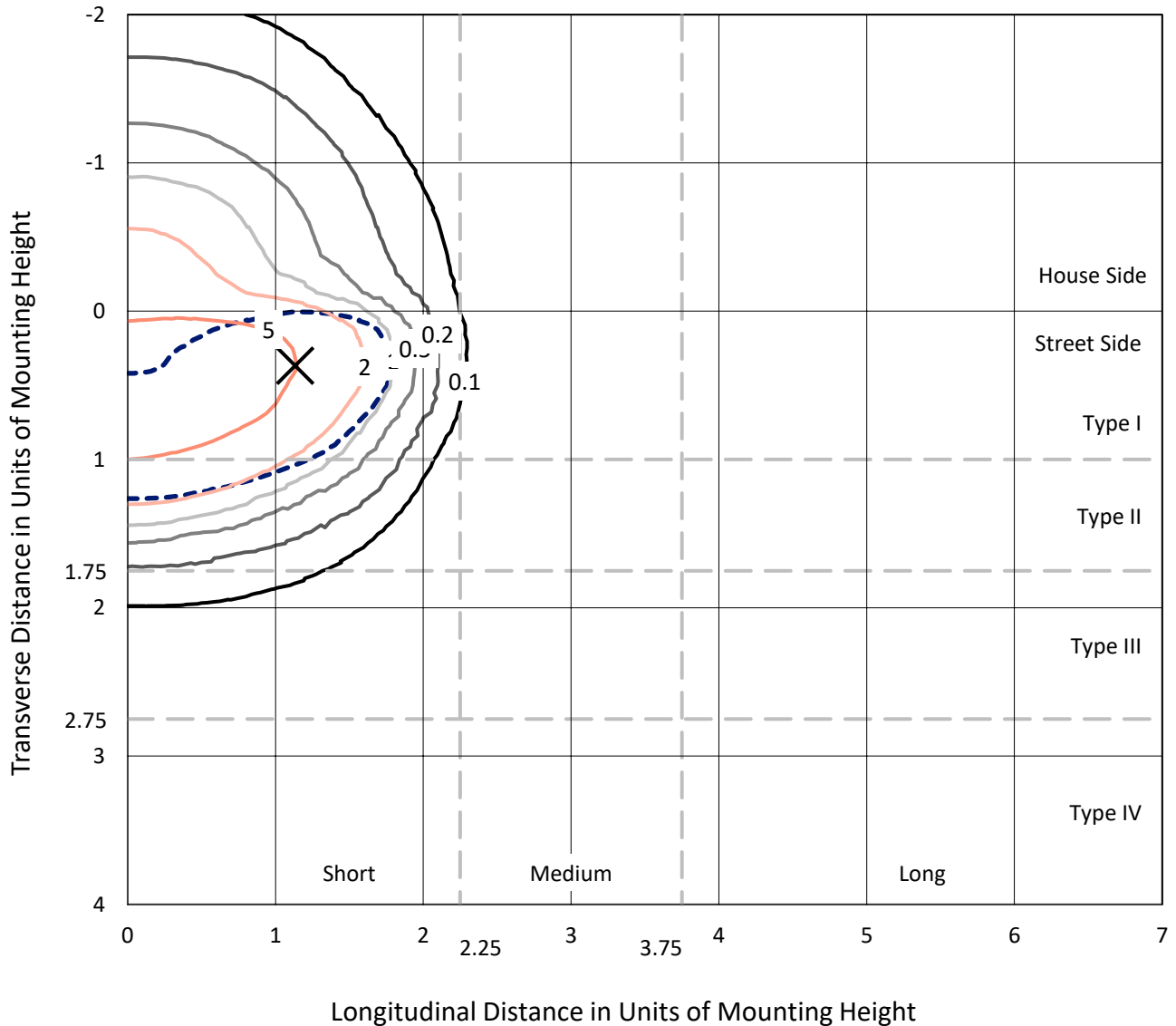
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

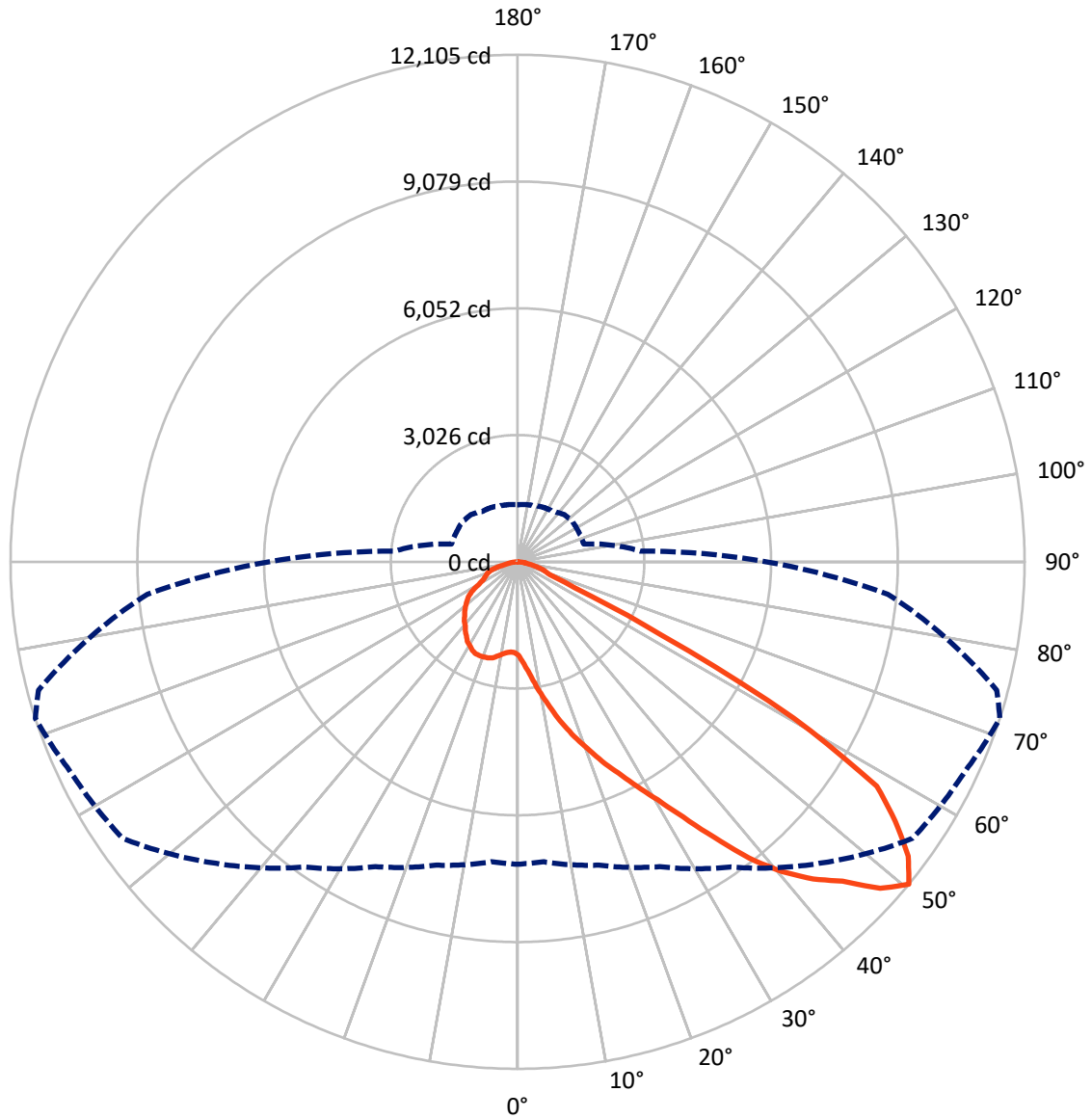
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3663.9   | 0.0    | 3663.9  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 12328.1  | 0.0    | 12328.1 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 15992.0  | 0.0    | 15992.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 261.9   | 1.6       |
| 10°-20°   | 978.9   | 6.1       |
| 20°-30°   | 1898.1  | 11.9      |
| 30°-40°   | 3144.4  | 19.7      |
| 40°-50°   | 4399.7  | 27.5      |
| 50°-60°   | 3711.7  | 23.2      |
| 60°-70°   | 1131.3  | 7.1       |
| 70°-80°   | 396.9   | 2.5       |
| 80°-90°   | 69.0    | 0.4       |
| 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°    | 15992.0 | 100.0     |
| 0°-180°   | 15992.0 | 100.0     |

**Coefficient of Utilization**

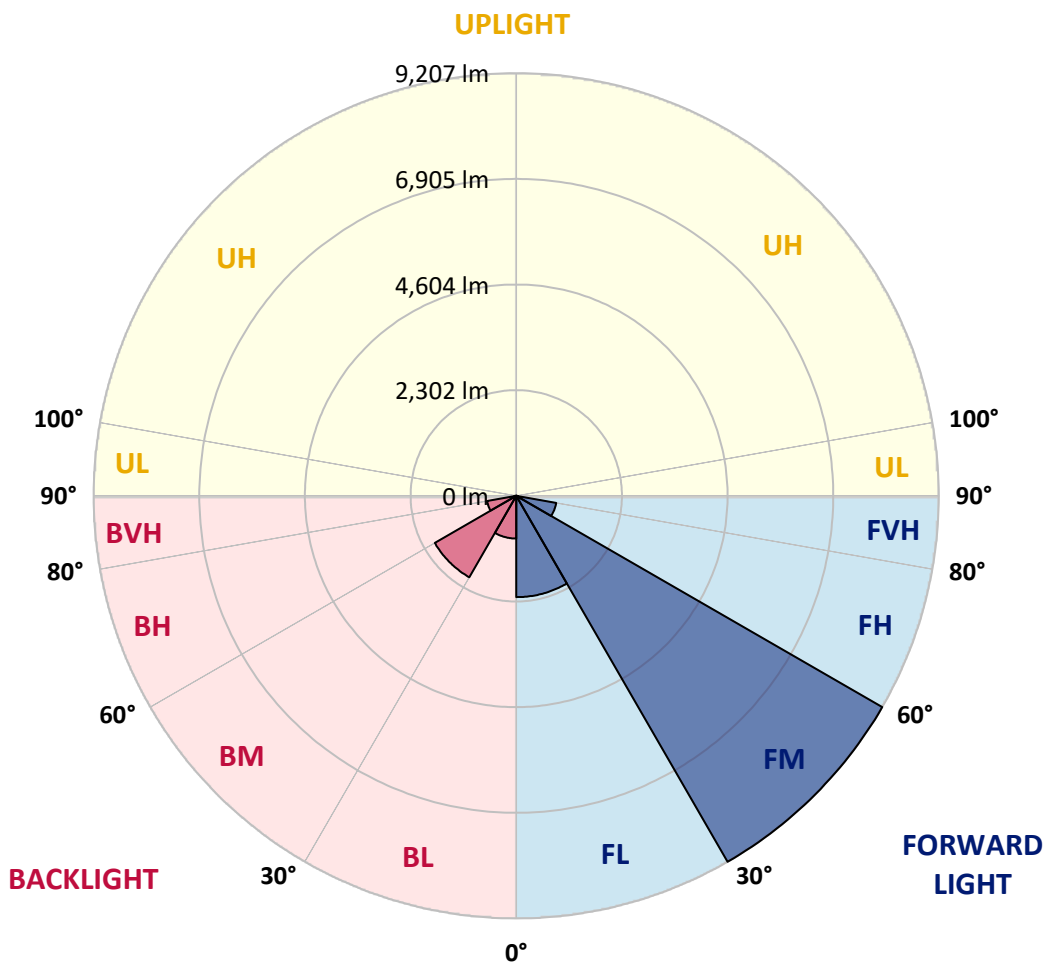


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2207.5 | 13.8      |                         |      |         |
| FM (30°-60°)   | 9207.0 | 57.6      |                         |      |         |
| FH (60°-80°)   | 882.7  | 5.5       |                         |      | G1/1800 |
| FVH (80°-90°)  | 30.9   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 931.4  | 5.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 2048.9 | 12.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 645.5  | 4.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 38.1   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 72°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2  | 2226.2  | 2226.2  | 2226.2  | 2226.2  | 2226.2 |
| 2.5°  | 2863.4 | 2845.6 | 2792.2 | 2774.4 | 2711.0 | 2596.3  | 2556.7  | 2439.9  | 2390.5  | 2345.0  | 2291.5 |
| 5°    | 3621.3 | 3538.2 | 3532.3 | 3431.4 | 3284.9 | 3199.8  | 2946.5  | 2776.3  | 2620.0  | 2540.9  | 2394.4 |
| 7.5°  | 4104.2 | 4106.1 | 4106.1 | 4023.0 | 3906.3 | 3690.6  | 3463.0  | 3156.3  | 2920.8  | 2804.1  | 2554.7 |
| 10°   | 4563.3 | 4523.7 | 4501.9 | 4494.0 | 4414.8 | 4205.1  | 3961.7  | 3581.7  | 3259.2  | 3122.6  | 2675.4 |
| 12.5° | 4887.8 | 4854.2 | 4903.6 | 4877.9 | 4820.5 | 4684.0  | 4454.4  | 4021.1  | 3617.4  | 3433.3  | 2869.4 |
| 15°   | 5042.1 | 5065.9 | 5105.5 | 5176.7 | 5151.0 | 5099.5  | 4846.2  | 4472.2  | 4003.2  | 3795.5  | 3041.5 |
| 17.5° | 5279.6 | 5214.3 | 5261.8 | 5350.9 | 5422.1 | 5398.3  | 5253.9  | 4798.7  | 4385.2  | 4129.9  | 3273.0 |
| 20°   | 5445.8 | 5408.2 | 5432.0 | 5534.9 | 5588.3 | 5722.9  | 5647.7  | 5226.2  | 4751.3  | 4482.1  | 3546.1 |
| 22.5° | 5920.8 | 5865.4 | 5788.2 | 5804.0 | 5823.8 | 5918.8  | 5936.6  | 5695.2  | 5176.7  | 4891.8  | 3805.4 |
| 25°   | 6506.5 | 6455.1 | 6364.0 | 6271.0 | 6213.6 | 6195.8  | 6257.2  | 6063.2  | 5584.4  | 5289.5  | 4084.4 |
| 27.5° | 7151.6 | 7064.5 | 7007.2 | 6815.2 | 6660.9 | 6637.1  | 6607.4  | 6502.5  | 6067.2  | 5748.6  | 4399.0 |
| 30°   | 7778.9 | 7709.7 | 7632.5 | 7325.8 | 7165.5 | 7139.7  | 6993.3  | 7023.0  | 6591.6  | 6237.4  | 4755.2 |
| 32.5° | 8253.8 | 8259.8 | 8083.7 | 7852.1 | 7701.7 | 7565.2  | 7511.8  | 7596.9  | 7264.4  | 6979.5  | 5153.0 |
| 35°   | 8637.7 | 8655.6 | 8487.4 | 8277.6 | 8115.3 | 8210.3  | 8186.6  | 8226.1  | 8067.8  | 7719.6  | 5616.0 |
| 37.5° | 9011.7 | 8922.7 | 8742.6 | 8641.7 | 8556.6 | 8712.9  | 8914.8  | 8948.4  | 8978.1  | 8568.5  | 6154.3 |
| 40°   | 9073.1 | 9081.0 | 8976.1 | 9047.4 | 8940.5 | 9176.0  | 9645.0  | 9601.5  | 9722.2  | 9364.0  | 6738.0 |
| 42.5° | 8986.0 | 9003.8 | 9045.4 | 9146.3 | 9403.6 | 9686.5  | 10383.1 | 10205.0 | 10351.4 | 10032.8 | 7306.0 |
| 45°   | 8843.5 | 8770.3 | 8821.8 | 9205.7 | 9650.9 | 10280.2 | 11057.9 | 10919.4 | 10871.9 | 10604.7 | 7982.7 |
| 47.5° | 8162.8 | 8238.0 | 8398.3 | 8871.3 | 9540.1 | 10383.1 | 11536.8 | 11505.1 | 11647.6 | 11459.6 | 8598.2 |
| 50°   | 7218.9 | 7189.2 | 7497.9 | 8030.2 | 8893.0 | 10181.3 | 11511.1 | 11798.0 | 12104.7 | 11843.5 | 8873.2 |
| 52.5° | 5406.3 | 5564.6 | 5829.7 | 6490.7 | 7721.5 | 9081.0  | 10949.1 | 11427.9 | 11677.3 | 11621.9 | 8651.6 |
| 55°   | 3417.5 | 3465.0 | 3625.3 | 4410.9 | 5519.1 | 7288.2  | 9385.8  | 10495.9 | 10941.1 | 11148.9 | 8447.8 |
| 57.5° | 1660.3 | 1571.2 | 1767.1 | 2398.4 | 3188.0 | 4901.6  | 7238.7  | 9142.4  | 10110.0 | 10486.0 | 8004.5 |
| 60°   | 866.7  | 900.4  | 977.6  | 1203.1 | 1648.4 | 2544.8  | 4511.8  | 6092.9  | 7571.1  | 8149.0  | 6067.2 |
| 62.5° | 718.3  | 730.2  | 781.7  | 894.4  | 1096.3 | 1464.4  | 2303.4  | 2970.3  | 3860.8  | 4381.2  | 3451.1 |
| 65°   | 609.5  | 615.4  | 670.8  | 746.0  | 874.7  | 1031.0  | 1185.3  | 1240.7  | 1502.0  | 1541.5  | 1226.9 |
| 67.5° | 508.6  | 514.5  | 573.9  | 645.1  | 728.2  | 769.8   | 809.4   | 805.4   | 835.1   | 823.2   | 821.2  |
| 70°   | 391.8  | 397.8  | 459.1  | 534.3  | 575.8  | 552.1   | 674.8   | 702.5   | 714.4   | 724.3   | 740.1  |
| 72.5° | 283.0  | 294.9  | 342.3  | 395.8  | 374.0  | 429.4   | 556.1   | 597.6   | 613.4   | 619.4   | 639.2  |
| 75°   | 205.8  | 209.8  | 221.6  | 205.8  | 237.5  | 298.8   | 391.8   | 443.3   | 463.1   | 469.0   | 498.7  |
| 77.5° | 91.0   | 93.0   | 95.0   | 118.7  | 152.4  | 186.0   | 233.5   | 275.1   | 302.8   | 310.7   | 318.6  |
| 80°   | 47.5   | 49.5   | 61.3   | 81.1   | 108.8  | 136.5   | 170.2   | 193.9   | 211.7   | 213.7   | 221.6  |
| 82.5° | 29.7   | 31.7   | 43.5   | 57.4   | 77.2   | 100.9   | 124.7   | 144.5   | 158.3   | 160.3   | 162.3  |
| 85°   | 13.9   | 17.8   | 25.7   | 35.6   | 51.5   | 65.3    | 67.3    | 57.4    | 61.3    | 63.3    | 59.4   |
| 87.5° | 4.0    | 5.9    | 7.9    | 5.9    | 7.9    | 7.9     | 9.9     | 11.9    | 11.9    | 11.9    | 13.9   |
| 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°    | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 | 2226.2 |
| 2.5°  | 2261.8 | 2244.0 | 2174.8 | 2149.0 | 2081.8 | 2093.6 | 2058.0 | 2056.0 | 2048.1 | 2046.1 | 2044.2 |
| 5°    | 2317.3 | 2261.8 | 2178.7 | 2115.4 | 2077.8 | 2073.9 | 2048.1 | 2048.1 | 2056.0 | 2062.0 | 2048.1 |
| 7.5°  | 2408.3 | 2345.0 | 2204.5 | 2145.1 | 2111.4 | 2105.5 | 2087.7 | 2073.9 | 2091.7 | 2085.7 | 2069.9 |
| 10°   | 2513.2 | 2402.3 | 2253.9 | 2202.5 | 2147.1 | 2133.2 | 2133.2 | 2139.2 | 2109.5 | 2119.4 | 2103.5 |
| 12.5° | 2629.9 | 2481.5 | 2317.3 | 2257.9 | 2192.6 | 2184.7 | 2180.7 | 2137.2 | 2153.0 | 2145.1 | 2105.5 |
| 15°   | 2778.3 | 2572.5 | 2398.4 | 2297.5 | 2242.1 | 2206.4 | 2155.0 | 2147.1 | 2137.2 | 2117.4 | 2099.6 |
| 17.5° | 2938.6 | 2671.5 | 2436.0 | 2309.3 | 2226.2 | 2200.5 | 2160.9 | 2119.4 | 2089.7 | 2093.6 | 2079.8 |
| 20°   | 3075.2 | 2762.5 | 2449.8 | 2321.2 | 2214.3 | 2164.9 | 2103.5 | 2077.8 | 2046.1 | 2044.2 | 2042.2 |
| 22.5° | 3237.4 | 2885.2 | 2469.6 | 2289.5 | 2178.7 | 2127.3 | 2085.7 | 2040.2 | 2018.4 | 1990.7 | 2004.6 |
| 25°   | 3431.4 | 2932.7 | 2473.6 | 2271.7 | 2153.0 | 2062.0 | 2040.2 | 1990.7 | 1982.8 | 1943.2 | 1951.2 |
| 27.5° | 3571.9 | 2958.4 | 2441.9 | 2216.3 | 2093.6 | 2024.4 | 1984.8 | 1949.2 | 1935.3 | 1905.6 | 1897.7 |
| 30°   | 3759.8 | 2998.0 | 2374.6 | 2147.1 | 2034.3 | 1957.1 | 1933.4 | 1925.4 | 1885.9 | 1854.2 | 1850.2 |
| 32.5° | 3973.6 | 3023.7 | 2331.1 | 2075.8 | 1972.9 | 1913.6 | 1925.4 | 1887.8 | 1838.4 | 1810.7 | 1802.7 |
| 35°   | 4143.7 | 3033.6 | 2222.3 | 1994.7 | 1931.4 | 1893.8 | 1879.9 | 1872.0 | 1800.8 | 1775.0 | 1755.3 |
| 37.5° | 4403.0 | 3011.8 | 2131.2 | 1937.3 | 1885.9 | 1872.0 | 1860.1 | 1806.7 | 1725.6 | 1688.0 | 1660.3 |
| 40°   | 4705.7 | 3005.9 | 2014.5 | 1856.2 | 1842.3 | 1858.2 | 1822.5 | 1739.4 | 1626.6 | 1585.1 | 1565.3 |
| 42.5° | 4996.6 | 3047.5 | 1941.3 | 1812.6 | 1794.8 | 1800.8 | 1751.3 | 1626.6 | 1571.2 | 1547.5 | 1515.8 |
| 45°   | 5483.4 | 3134.5 | 1820.6 | 1745.4 | 1737.4 | 1733.5 | 1674.1 | 1543.5 | 1511.9 | 1482.2 | 1476.2 |
| 47.5° | 5922.7 | 3077.1 | 1743.4 | 1676.1 | 1684.0 | 1662.2 | 1535.6 | 1494.0 | 1458.4 | 1428.7 | 1418.8 |
| 50°   | 5948.5 | 2940.6 | 1634.5 | 1622.7 | 1624.6 | 1587.0 | 1466.3 | 1438.6 | 1393.1 | 1373.3 | 1359.5 |
| 52.5° | 5813.9 | 2717.0 | 1533.6 | 1537.6 | 1543.5 | 1482.2 | 1381.2 | 1361.5 | 1323.9 | 1296.2 | 1288.2 |
| 55°   | 5435.9 | 2368.7 | 1434.7 | 1450.5 | 1466.3 | 1349.6 | 1317.9 | 1268.5 | 1238.8 | 1199.2 | 1201.2 |
| 57.5° | 4788.9 | 1907.6 | 1296.2 | 1321.9 | 1355.5 | 1226.9 | 1203.1 | 1141.8 | 1098.3 | 1066.6 | 1062.7 |
| 60°   | 3209.7 | 1357.5 | 1088.4 | 1098.3 | 1173.5 | 1122.0 | 1120.0 | 1058.7 | 999.3  | 971.6  | 955.8  |
| 62.5° | 1893.8 | 1036.9 | 940.0  | 930.1  | 928.1  | 957.8  | 1007.2 | 985.5  | 908.3  | 854.9  | 870.7  |
| 65°   | 991.4  | 896.4  | 874.7  | 841.0  | 821.2  | 813.3  | 850.9  | 860.8  | 809.4  | 752.0  | 748.0  |
| 67.5° | 833.1  | 833.1  | 815.3  | 803.4  | 775.7  | 742.1  | 718.3  | 686.7  | 678.8  | 662.9  | 643.1  |
| 70°   | 757.9  | 777.7  | 771.8  | 744.1  | 720.3  | 682.7  | 621.4  | 569.9  | 520.4  | 502.6  | 514.5  |
| 72.5° | 660.9  | 680.7  | 680.7  | 666.9  | 635.2  | 577.8  | 518.5  | 459.1  | 417.5  | 385.9  | 381.9  |
| 75°   | 508.6  | 518.5  | 542.2  | 526.4  | 484.8  | 449.2  | 387.9  | 326.5  | 286.9  | 257.3  | 251.3  |
| 77.5° | 324.5  | 340.4  | 340.4  | 338.4  | 308.7  | 275.1  | 235.5  | 191.9  | 162.3  | 140.5  | 134.6  |
| 80°   | 215.7  | 225.6  | 233.5  | 225.6  | 205.8  | 180.1  | 150.4  | 120.7  | 98.9   | 81.1   | 77.2   |
| 82.5° | 158.3  | 170.2  | 176.1  | 168.2  | 148.4  | 128.6  | 106.9  | 85.1   | 63.3   | 49.5   | 45.5   |
| 85°   | 61.3   | 63.3   | 71.2   | 85.1   | 83.1   | 81.1   | 65.3   | 47.5   | 35.6   | 25.7   | 23.7   |
| 87.5° | 15.8   | 13.9   | 15.8   | 15.8   | 13.9   | 11.9   | 11.9   | 11.9   | 11.9   | 5.9    | 7.9    |
| 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)