

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: P529958

Luminaire Tested: **GLAN-SA5A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P529958  
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-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 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: 14794 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

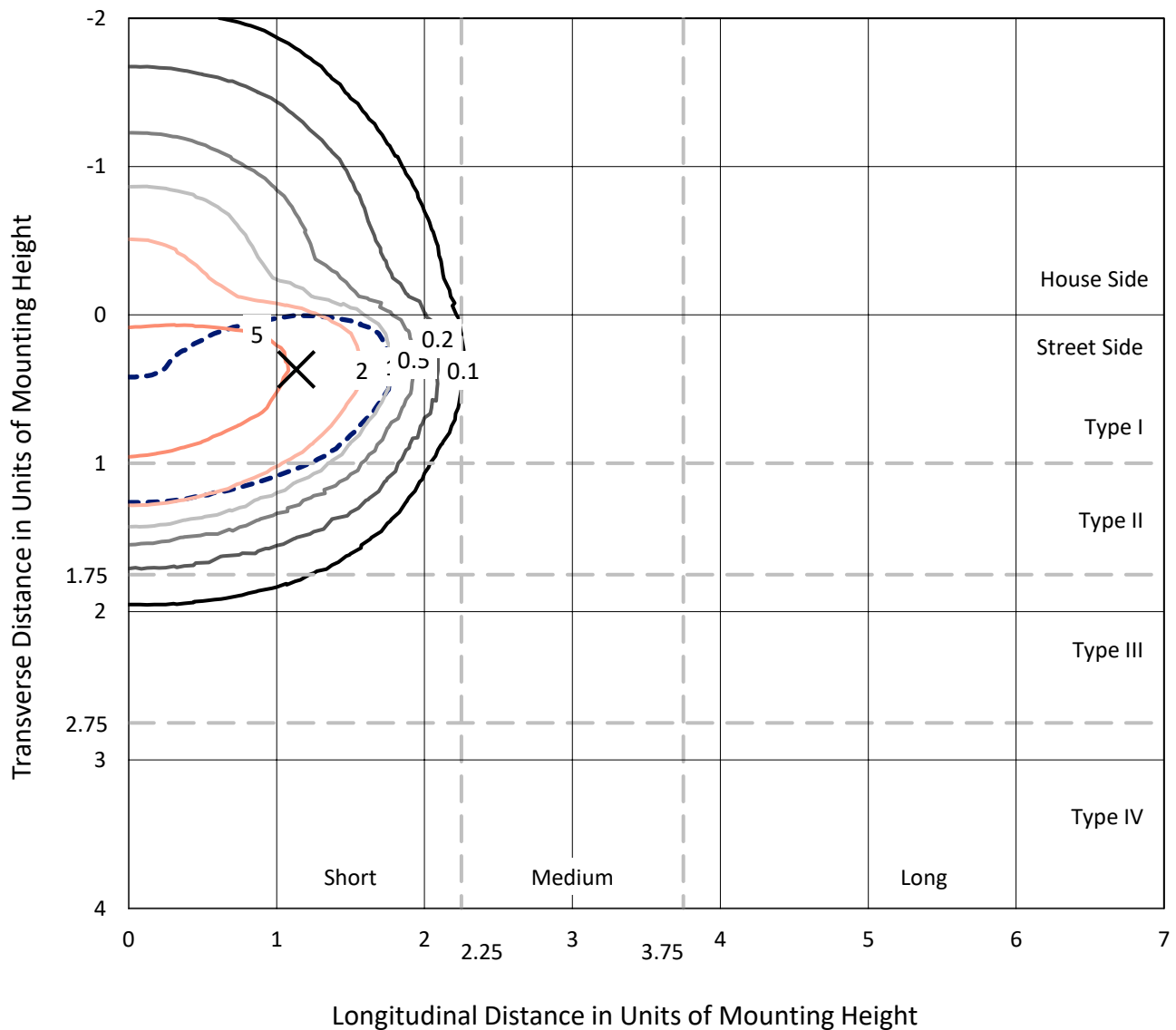
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

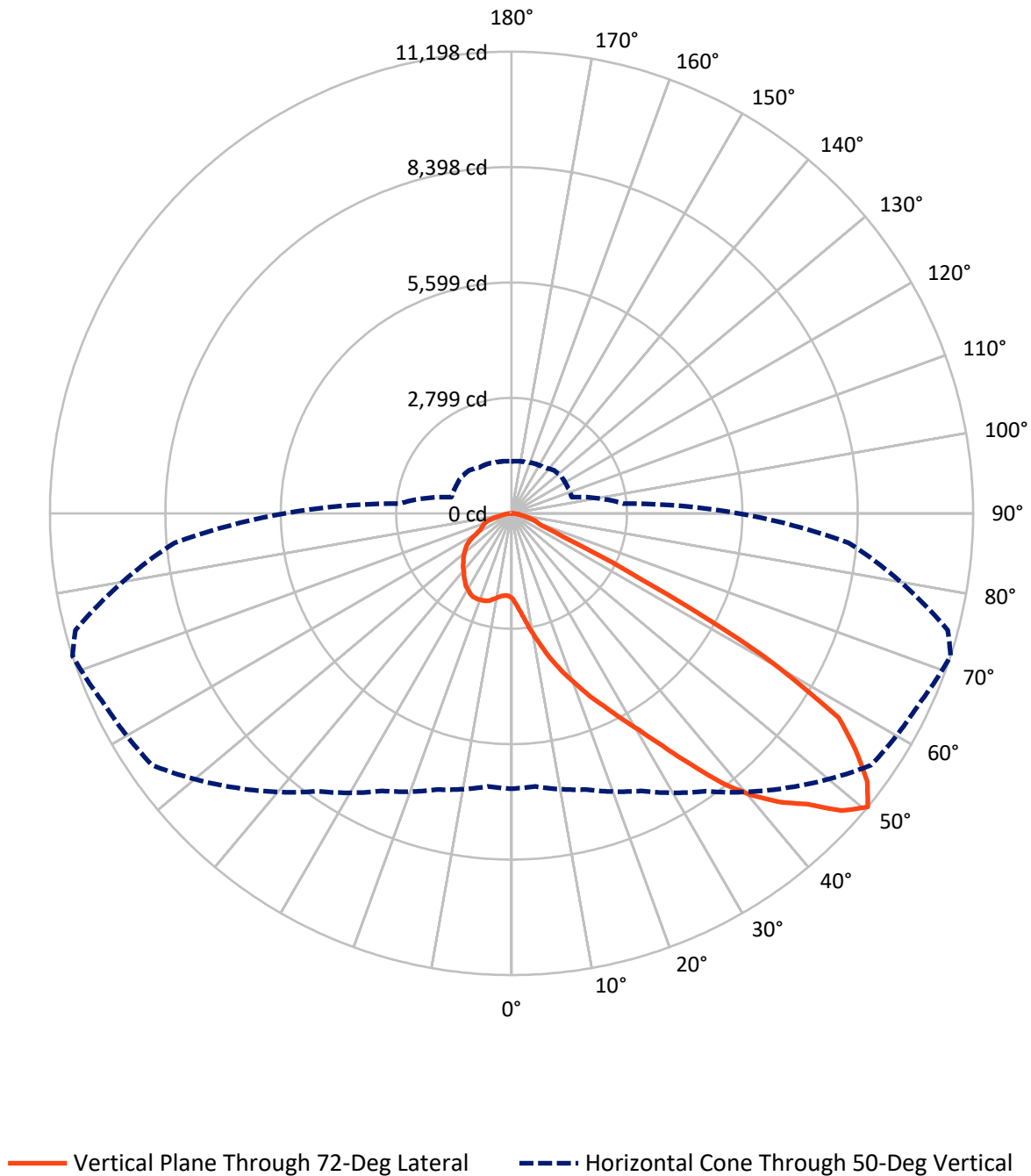
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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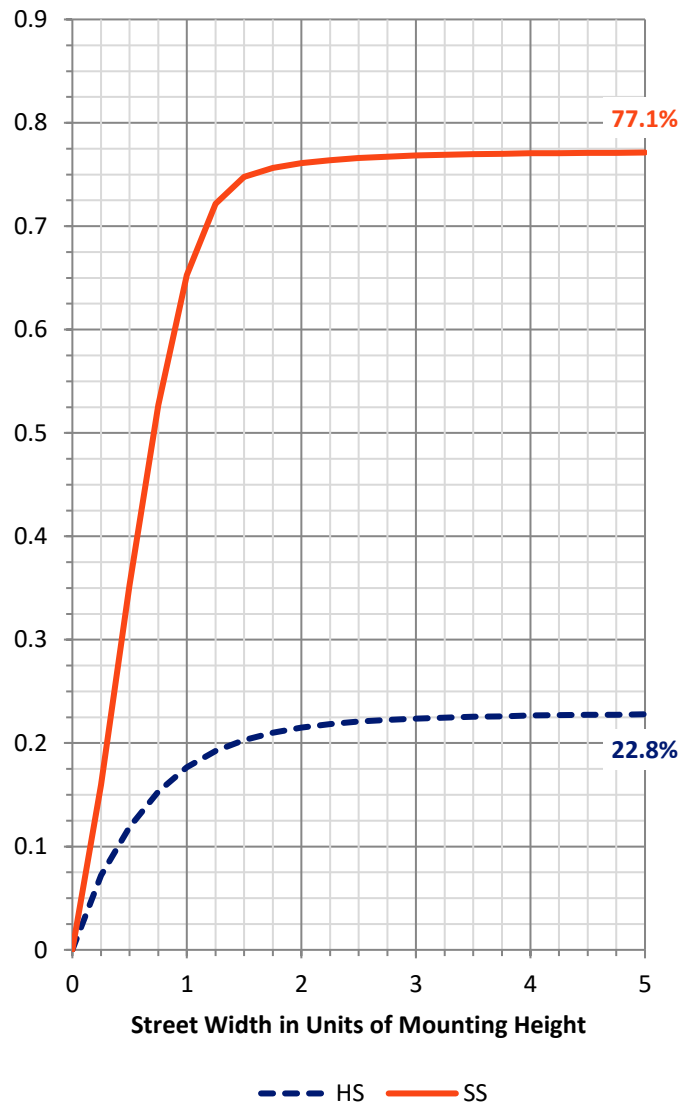
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3389.4   | 0.0    | 3389.4  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 11404.6  | 0.0    | 11404.6 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 14794.0  | 0.0    | 14794.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 242.2   | 1.6       |
| 10°-20°   | 905.6   | 6.1       |
| 20°-30°   | 1755.9  | 11.9      |
| 30°-40°   | 2908.9  | 19.7      |
| 40°-50°   | 4070.1  | 27.5      |
| 50°-60°   | 3433.7  | 23.2      |
| 60°-70°   | 1046.6  | 7.1       |
| 70°-80°   | 367.2   | 2.5       |
| 80°-90°   | 63.8    | 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°    | 14794.0 | 100.0     |
| 0°-180°   | 14794.0 | 100.0     |

**Coefficient of Utilization**



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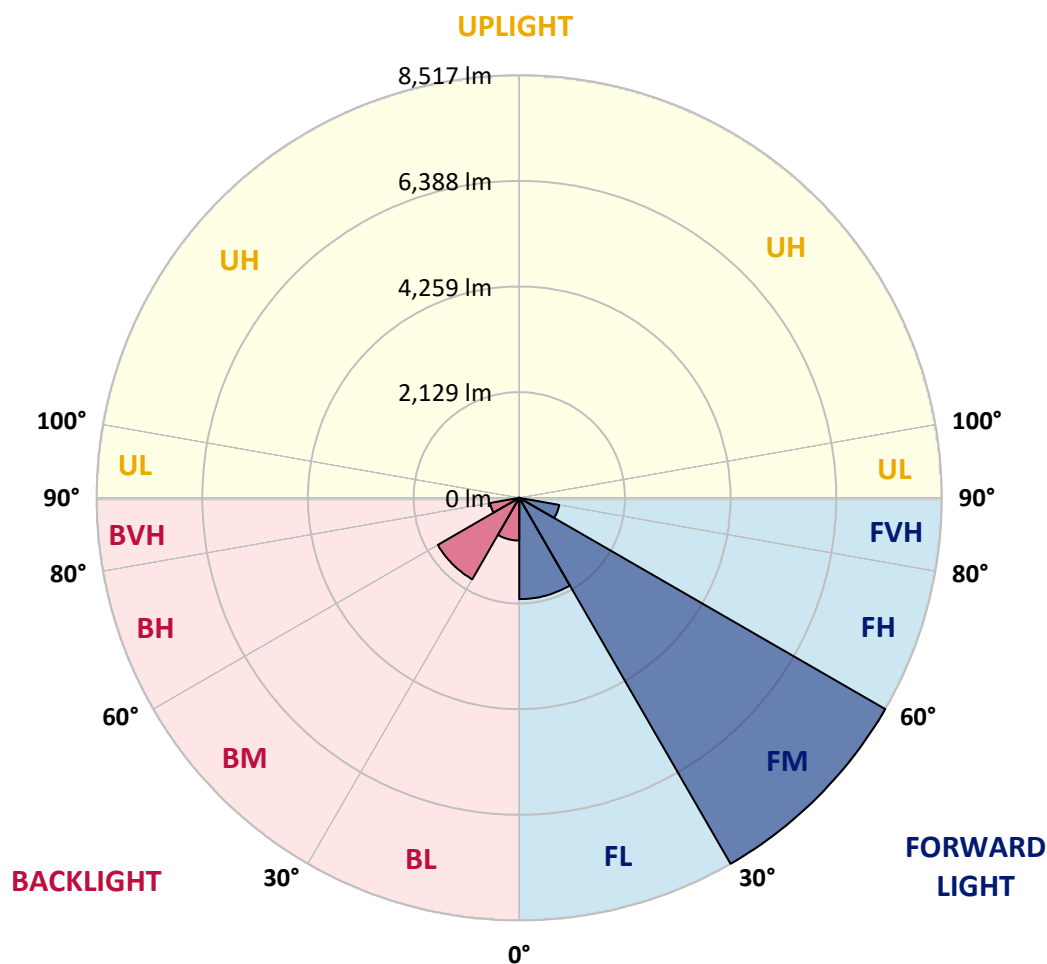
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2042.1 | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 8517.3 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 816.6  | 5.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 28.6   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 861.6  | 5.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1895.4 | 12.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 597.1  | 4.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 35.2   | 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°    | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5  | 2059.5  | 2059.5  | 2059.5  | 2059.5 |
| 2.5°  | 2648.9 | 2632.4 | 2583.0 | 2566.5 | 2508.0 | 2401.8 | 2365.2  | 2257.2  | 2211.4  | 2169.3  | 2119.9 |
| 5°    | 3350.0 | 3273.2 | 3267.7 | 3174.3 | 3038.8 | 2960.1 | 2725.8  | 2568.4  | 2423.7  | 2350.5  | 2215.1 |
| 7.5°  | 3796.7 | 3798.5 | 3798.5 | 3721.7 | 3613.6 | 3414.1 | 3203.6  | 2919.8  | 2702.0  | 2594.0  | 2363.3 |
| 10°   | 4221.4 | 4184.8 | 4164.7 | 4157.3 | 4084.1 | 3890.1 | 3664.9  | 3313.4  | 3015.0  | 2888.7  | 2475.0 |
| 12.5° | 4521.6 | 4490.5 | 4536.3 | 4512.5 | 4459.4 | 4333.1 | 4120.7  | 3719.8  | 3346.4  | 3176.1  | 2654.4 |
| 15°   | 4664.4 | 4686.4 | 4723.0 | 4788.9 | 4765.1 | 4717.5 | 4483.2  | 4137.2  | 3703.4  | 3511.1  | 2813.7 |
| 17.5° | 4884.1 | 4823.7 | 4867.6 | 4950.0 | 5015.9 | 4993.9 | 4860.3  | 4439.3  | 4056.7  | 3820.5  | 3027.9 |
| 20°   | 5037.9 | 5003.1 | 5025.1 | 5120.3 | 5169.7 | 5294.2 | 5224.6  | 4834.7  | 4395.3  | 4146.4  | 3280.5 |
| 22.5° | 5477.2 | 5426.0 | 5354.6 | 5369.2 | 5387.5 | 5475.4 | 5491.9  | 5268.5  | 4788.9  | 4525.3  | 3520.3 |
| 25°   | 6019.1 | 5971.5 | 5887.3 | 5801.2 | 5748.2 | 5731.7 | 5788.4  | 5609.0  | 5166.0  | 4893.3  | 3778.4 |
| 27.5° | 6615.9 | 6535.3 | 6482.2 | 6304.7 | 6161.9 | 6139.9 | 6112.5  | 6015.4  | 5612.7  | 5318.0  | 4069.5 |
| 30°   | 7196.2 | 7132.1 | 7060.7 | 6777.0 | 6628.7 | 6604.9 | 6469.4  | 6496.9  | 6097.8  | 5770.1  | 4399.0 |
| 32.5° | 7635.5 | 7641.0 | 7478.1 | 7263.9 | 7124.8 | 6998.5 | 6949.0  | 7027.8  | 6720.2  | 6456.6  | 4766.9 |
| 35°   | 7990.7 | 8007.1 | 7851.5 | 7657.5 | 7507.4 | 7595.3 | 7573.3  | 7609.9  | 7463.5  | 7141.3  | 5195.3 |
| 37.5° | 8336.7 | 8254.3 | 8087.7 | 7994.3 | 7915.6 | 8060.2 | 8247.0  | 8278.1  | 8305.5  | 7926.6  | 5693.2 |
| 40°   | 8393.4 | 8400.7 | 8303.7 | 8369.6 | 8270.8 | 8488.6 | 8922.5  | 8882.2  | 8993.9  | 8662.5  | 6233.3 |
| 42.5° | 8312.9 | 8329.3 | 8367.8 | 8461.1 | 8699.1 | 8960.9 | 9605.3  | 9440.5  | 9576.0  | 9281.3  | 6758.7 |
| 45°   | 8181.1 | 8113.3 | 8160.9 | 8516.1 | 8927.9 | 9510.1 | 10229.5 | 10101.4 | 10057.4 | 9810.3  | 7384.7 |
| 47.5° | 7551.3 | 7620.9 | 7769.2 | 8206.7 | 8825.4 | 9605.3 | 10672.5 | 10643.2 | 10775.0 | 10601.1 | 7954.1 |
| 50°   | 6678.1 | 6650.7 | 6936.2 | 7428.7 | 8226.8 | 9418.6 | 10648.7 | 10914.2 | 11197.9 | 10956.3 | 8208.5 |
| 52.5° | 5001.3 | 5147.7 | 5393.0 | 6004.4 | 7143.1 | 8400.7 | 10128.8 | 10571.8 | 10802.5 | 10751.2 | 8003.5 |
| 55°   | 3161.5 | 3205.4 | 3353.7 | 4080.5 | 5105.6 | 6742.2 | 8682.6  | 9709.6  | 10121.5 | 10313.7 | 7814.9 |
| 57.5° | 1535.9 | 1453.5 | 1634.7 | 2218.7 | 2949.1 | 4534.5 | 6696.4  | 8457.5  | 9352.7  | 9700.5  | 7404.9 |
| 60°   | 801.8  | 832.9  | 904.3  | 1113.0 | 1524.9 | 2354.2 | 4173.8  | 5636.5  | 7004.0  | 7538.5  | 5612.7 |
| 62.5° | 664.5  | 675.5  | 723.1  | 827.4  | 1014.2 | 1354.7 | 2130.8  | 2747.8  | 3571.5  | 4053.0  | 3192.6 |
| 65°   | 563.8  | 569.3  | 620.6  | 690.1  | 809.1  | 953.8  | 1096.5  | 1147.8  | 1389.4  | 1426.1  | 1135.0 |
| 67.5° | 470.5  | 476.0  | 530.9  | 596.8  | 673.7  | 712.1  | 748.7   | 745.1   | 772.5   | 761.5   | 759.7  |
| 70°   | 362.5  | 368.0  | 424.7  | 494.3  | 532.7  | 510.7  | 624.2   | 649.9   | 660.9   | 670.0   | 684.7  |
| 72.5° | 261.8  | 272.8  | 316.7  | 366.1  | 346.0  | 397.2  | 514.4   | 552.8   | 567.5   | 573.0   | 591.3  |
| 75°   | 190.4  | 194.0  | 205.0  | 190.4  | 219.7  | 276.4  | 362.5   | 410.1   | 428.4   | 433.9   | 461.3  |
| 77.5° | 84.2   | 86.0   | 87.9   | 109.8  | 141.0  | 172.1  | 216.0   | 254.5   | 280.1   | 287.4   | 294.7  |
| 80°   | 43.9   | 45.8   | 56.7   | 75.1   | 100.7  | 126.3  | 157.4   | 179.4   | 195.9   | 197.7   | 205.0  |
| 82.5° | 27.5   | 29.3   | 40.3   | 53.1   | 71.4   | 93.4   | 115.3   | 133.6   | 146.4   | 148.3   | 150.1  |
| 85°   | 12.8   | 16.5   | 23.8   | 33.0   | 47.6   | 60.4   | 62.2    | 53.1    | 56.7    | 58.6    | 54.9   |
| 87.5° | 3.7    | 5.5    | 7.3    | 5.5    | 7.3    | 7.3    | 9.2     | 11.0    | 11.0    | 11.0    | 12.8   |
| 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°    | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 | 2059.5 |
| 2.5°  | 2092.4 | 2075.9 | 2011.9 | 1988.1 | 1925.8 | 1936.8 | 1903.8 | 1902.0 | 1894.7 | 1892.9 | 1891.0 |
| 5°    | 2143.7 | 2092.4 | 2015.5 | 1956.9 | 1922.2 | 1918.5 | 1894.7 | 1894.7 | 1902.0 | 1907.5 | 1894.7 |
| 7.5°  | 2227.9 | 2169.3 | 2039.3 | 1984.4 | 1953.3 | 1947.8 | 1931.3 | 1918.5 | 1935.0 | 1929.5 | 1914.8 |
| 10°   | 2324.9 | 2222.4 | 2085.1 | 2037.5 | 1986.2 | 1973.4 | 1973.4 | 1978.9 | 1951.4 | 1960.6 | 1946.0 |
| 12.5° | 2432.9 | 2295.6 | 2143.7 | 2088.7 | 2028.3 | 2021.0 | 2017.3 | 1977.1 | 1991.7 | 1984.4 | 1947.8 |
| 15°   | 2570.2 | 2379.8 | 2218.7 | 2125.4 | 2074.1 | 2041.1 | 1993.5 | 1986.2 | 1977.1 | 1958.8 | 1942.3 |
| 17.5° | 2718.5 | 2471.3 | 2253.5 | 2136.3 | 2059.5 | 2035.7 | 1999.0 | 1960.6 | 1933.1 | 1936.8 | 1924.0 |
| 20°   | 2844.8 | 2555.5 | 2266.3 | 2147.3 | 2048.5 | 2002.7 | 1946.0 | 1922.2 | 1892.9 | 1891.0 | 1889.2 |
| 22.5° | 2994.9 | 2669.0 | 2284.6 | 2118.0 | 2015.5 | 1967.9 | 1929.5 | 1887.4 | 1867.2 | 1841.6 | 1854.4 |
| 25°   | 3174.3 | 2713.0 | 2288.3 | 2101.6 | 1991.7 | 1907.5 | 1887.4 | 1841.6 | 1834.3 | 1797.7 | 1805.0 |
| 27.5° | 3304.3 | 2736.8 | 2259.0 | 2050.3 | 1936.8 | 1872.7 | 1836.1 | 1803.2 | 1790.3 | 1762.9 | 1755.6 |
| 30°   | 3478.2 | 2773.4 | 2196.7 | 1986.2 | 1881.9 | 1810.5 | 1788.5 | 1781.2 | 1744.6 | 1715.3 | 1711.6 |
| 32.5° | 3675.9 | 2797.2 | 2156.5 | 1920.3 | 1825.1 | 1770.2 | 1781.2 | 1746.4 | 1700.6 | 1675.0 | 1667.7 |
| 35°   | 3833.3 | 2806.3 | 2055.8 | 1845.3 | 1786.7 | 1751.9 | 1739.1 | 1731.8 | 1665.9 | 1642.1 | 1623.8 |
| 37.5° | 4073.1 | 2786.2 | 1971.6 | 1792.2 | 1744.6 | 1731.8 | 1720.8 | 1671.4 | 1596.3 | 1561.5 | 1535.9 |
| 40°   | 4353.2 | 2780.7 | 1863.6 | 1717.1 | 1704.3 | 1719.0 | 1686.0 | 1609.1 | 1504.8 | 1466.3 | 1448.0 |
| 42.5° | 4622.3 | 2819.2 | 1795.8 | 1676.9 | 1660.4 | 1665.9 | 1620.1 | 1504.8 | 1453.5 | 1431.5 | 1402.3 |
| 45°   | 5072.7 | 2899.7 | 1684.2 | 1614.6 | 1607.3 | 1603.6 | 1548.7 | 1427.9 | 1398.6 | 1371.1 | 1365.6 |
| 47.5° | 5479.1 | 2846.6 | 1612.8 | 1550.5 | 1557.9 | 1537.7 | 1420.6 | 1382.1 | 1349.2 | 1321.7 | 1312.6 |
| 50°   | 5502.9 | 2720.3 | 1512.1 | 1501.1 | 1502.9 | 1468.2 | 1356.5 | 1330.9 | 1288.8 | 1270.5 | 1257.6 |
| 52.5° | 5378.4 | 2513.4 | 1418.7 | 1422.4 | 1427.9 | 1371.1 | 1277.8 | 1259.5 | 1224.7 | 1199.1 | 1191.7 |
| 55°   | 5028.7 | 2191.3 | 1327.2 | 1341.8 | 1356.5 | 1248.5 | 1219.2 | 1173.4 | 1146.0 | 1109.4 | 1111.2 |
| 57.5° | 4430.1 | 1764.7 | 1199.1 | 1222.9 | 1254.0 | 1135.0 | 1113.0 | 1056.3 | 1016.0 | 986.7  | 983.0  |
| 60°   | 2969.3 | 1255.8 | 1006.8 | 1016.0 | 1085.6 | 1038.0 | 1036.1 | 979.4  | 924.5  | 898.8  | 884.2  |
| 62.5° | 1751.9 | 959.2  | 869.5  | 860.4  | 858.6  | 886.0  | 931.8  | 911.7  | 840.3  | 790.8  | 805.5  |
| 65°   | 917.1  | 829.3  | 809.1  | 778.0  | 759.7  | 752.4  | 787.2  | 796.3  | 748.7  | 695.6  | 692.0  |
| 67.5° | 770.7  | 770.7  | 754.2  | 743.2  | 717.6  | 686.5  | 664.5  | 635.2  | 627.9  | 613.3  | 595.0  |
| 70°   | 701.1  | 719.4  | 713.9  | 688.3  | 666.3  | 631.6  | 574.8  | 527.2  | 481.5  | 465.0  | 476.0  |
| 72.5° | 611.4  | 629.7  | 629.7  | 616.9  | 587.6  | 534.5  | 479.6  | 424.7  | 386.3  | 357.0  | 353.3  |
| 75°   | 470.5  | 479.6  | 501.6  | 486.9  | 448.5  | 415.6  | 358.8  | 302.1  | 265.4  | 238.0  | 232.5  |
| 77.5° | 300.2  | 314.9  | 314.9  | 313.0  | 285.6  | 254.5  | 217.8  | 177.6  | 150.1  | 130.0  | 124.5  |
| 80°   | 199.5  | 208.7  | 216.0  | 208.7  | 190.4  | 166.6  | 139.1  | 111.7  | 91.5   | 75.1   | 71.4   |
| 82.5° | 146.4  | 157.4  | 162.9  | 155.6  | 137.3  | 119.0  | 98.9   | 78.7   | 58.6   | 45.8   | 42.1   |
| 85°   | 56.7   | 58.6   | 65.9   | 78.7   | 76.9   | 75.1   | 60.4   | 43.9   | 33.0   | 23.8   | 22.0   |
| 87.5° | 14.6   | 12.8   | 14.6   | 14.6   | 12.8   | 11.0   | 11.0   | 11.0   | 11.0   | 5.5    | 7.3    |
| 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)