

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: P529025

Luminaire Tested: **GLAN-SA4A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8088 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

Input Watts (W): 121  
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

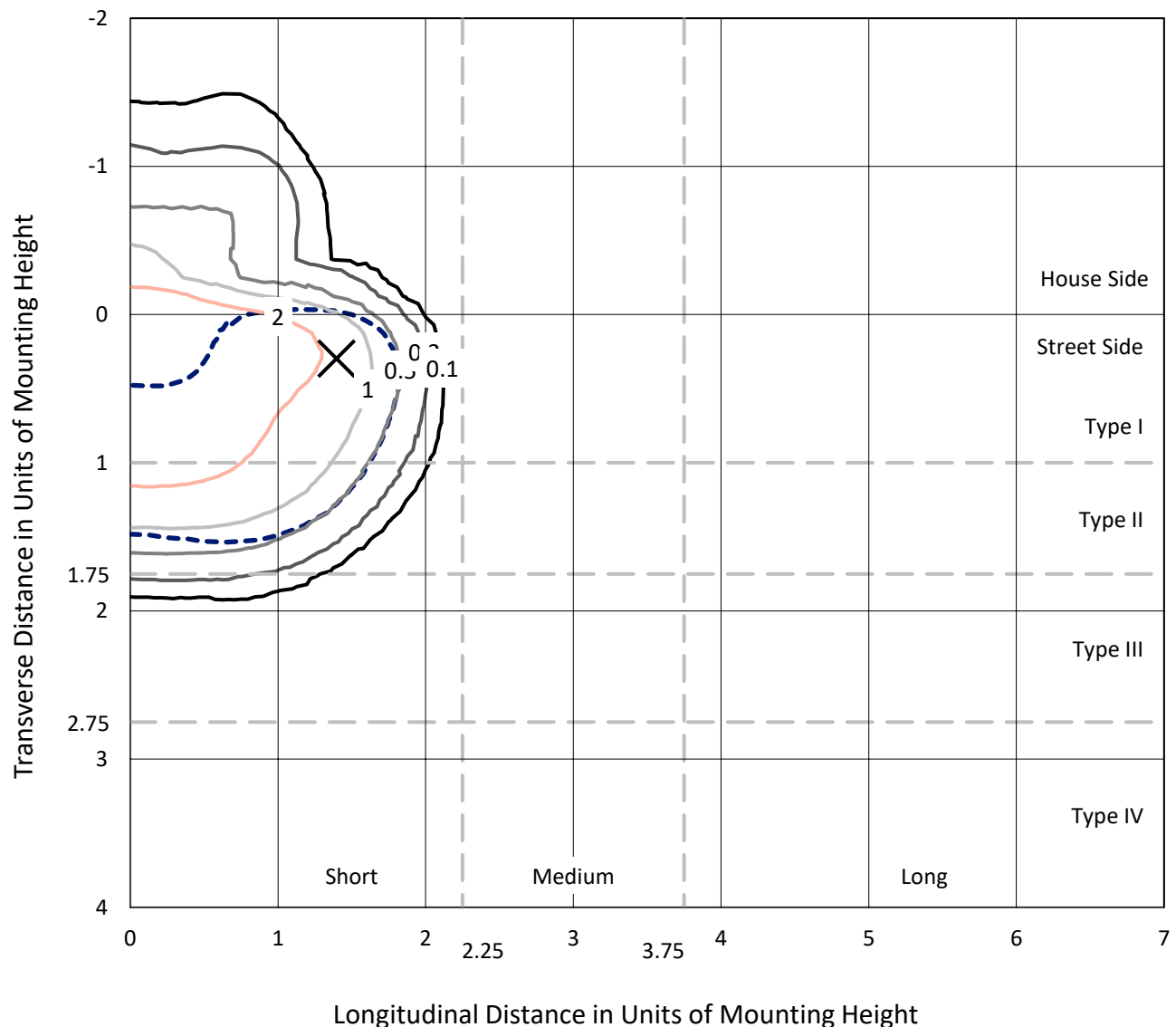


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## Iso-Footcandle Lines of Horizontal Illumination

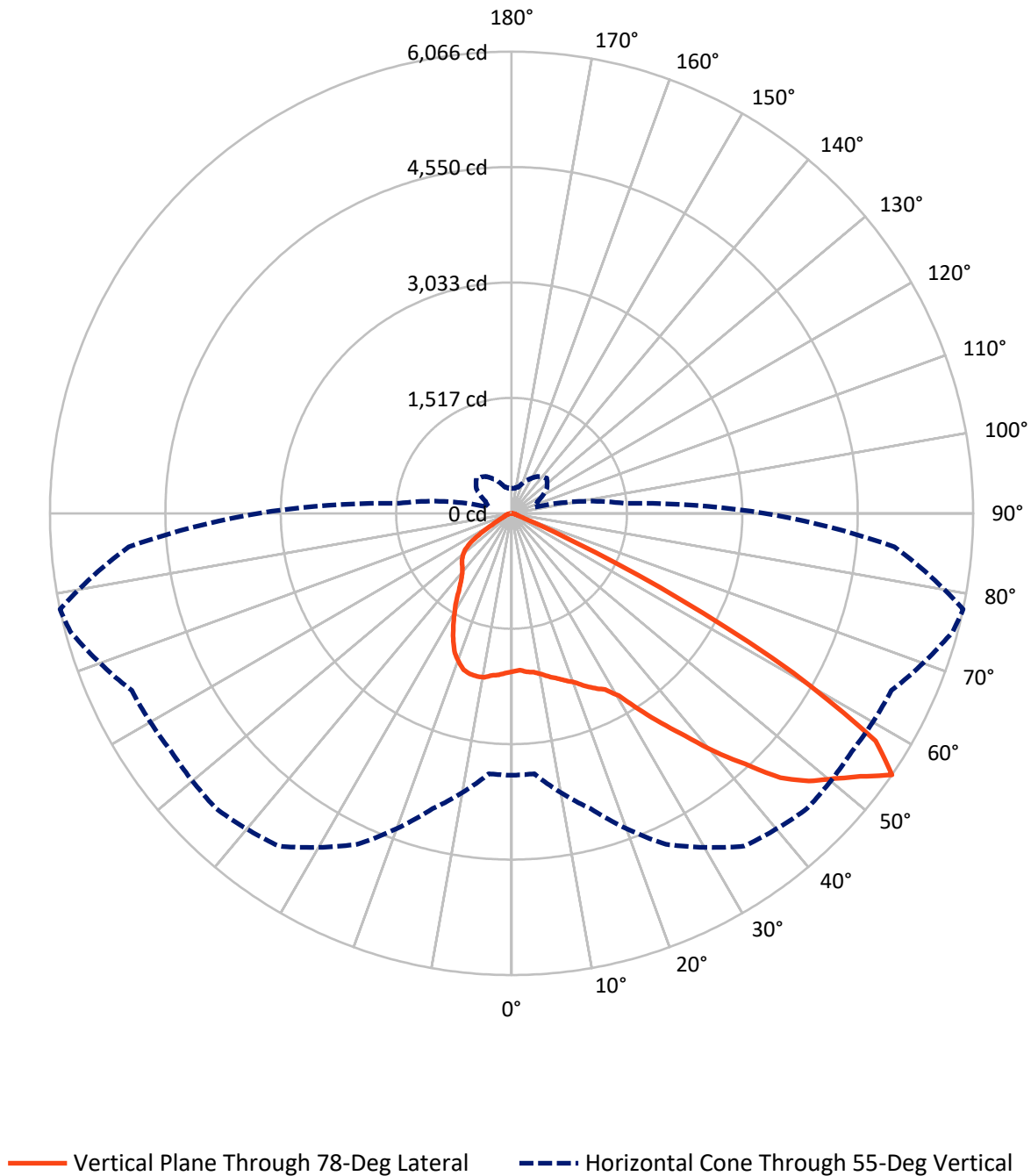
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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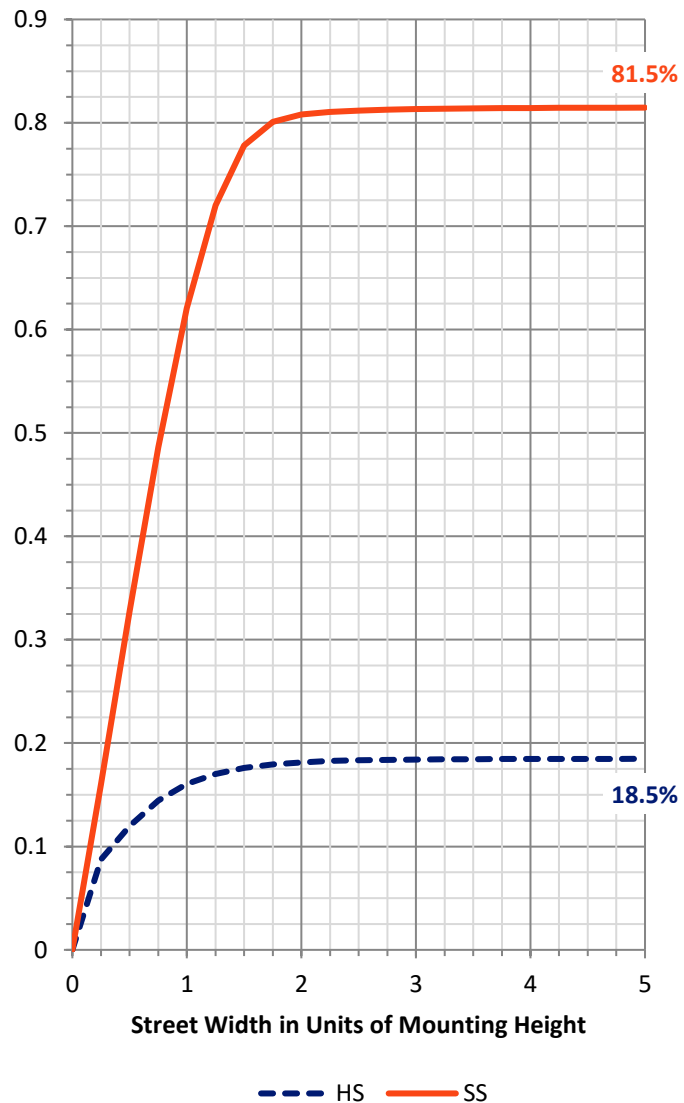
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1502.2   | 0.0    | 1502.2 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 6585.7   | 0.0    | 6585.7 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 8088.0   | 0.0    | 8088.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 185.4  | 2.3       |
| 10°-20°   | 490.7  | 6.1       |
| 20°-30°   | 860.1  | 10.6      |
| 30°-40°   | 1418.3 | 17.5      |
| 40°-50°   | 2063.7 | 25.5      |
| 50°-60°   | 2338.4 | 28.9      |
| 60°-70°   | 668.6  | 8.3       |
| 70°-80°   | 51.9   | 0.6       |
| 80°-90°   | 10.8   | 0.1       |
| 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°    | 8088.0 | 100.0     |
| 0°-180°   | 8088.0 | 100.0     |

**Coefficient of Utilization**



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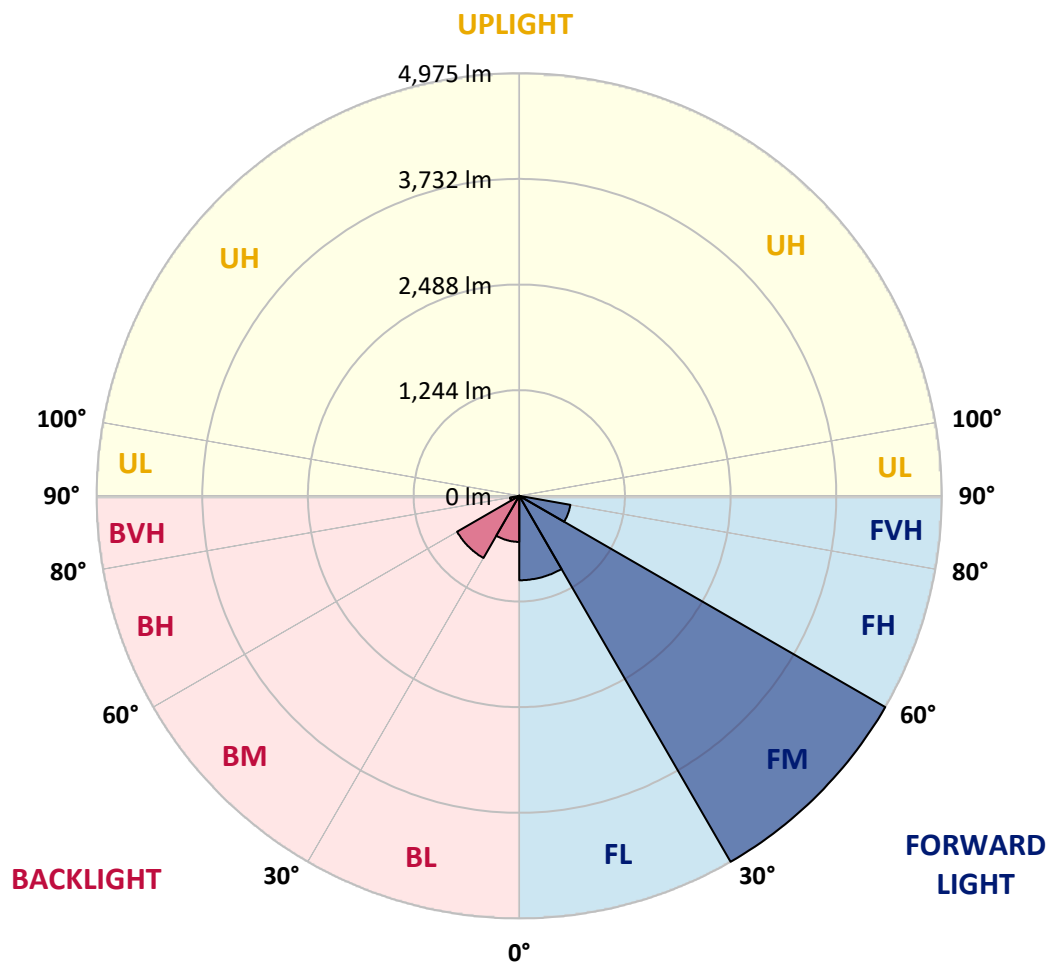
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 994.2  | 12.3      |                         |      |        |
| FM   | (30°-60°)   | 4975.4 | 61.5      |                         |      |        |
| FH   | (60°-80°)   | 610.9  | 7.6       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 5.3    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 542.0  | 6.7       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 845.0  | 10.4      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 109.7  | 1.4       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 5.5    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 |
| 2.5°  | 1955.1 | 1973.9 | 1976.8 | 1999.9 | 1998.5 | 2037.5 | 2049.1 | 2050.5 | 2076.5 | 2063.5 | 2096.8 |
| 5°    | 1900.1 | 1890.0 | 1885.7 | 1926.1 | 1937.7 | 1972.4 | 2001.3 | 2018.7 | 2072.2 | 2091.0 | 2125.7 |
| 7.5°  | 1851.0 | 1851.0 | 1853.8 | 1890.0 | 1885.7 | 1930.5 | 1960.9 | 2014.4 | 2092.4 | 2108.4 | 2150.3 |
| 10°   | 1803.2 | 1785.9 | 1807.6 | 1845.2 | 1877.0 | 1897.2 | 1960.9 | 2011.5 | 2102.6 | 2148.8 | 2206.7 |
| 12.5° | 1778.6 | 1787.3 | 1790.2 | 1817.7 | 1852.4 | 1913.1 | 1947.8 | 2031.7 | 2174.9 | 2202.3 | 2264.5 |
| 15°   | 1933.4 | 1916.0 | 1874.1 | 1849.5 | 1878.4 | 1907.3 | 1994.1 | 2079.4 | 2212.5 | 2251.5 | 2320.9 |
| 17.5° | 2112.7 | 2098.2 | 2063.5 | 1997.0 | 1931.9 | 1985.4 | 2053.4 | 2131.5 | 2253.0 | 2310.8 | 2413.5 |
| 20°   | 2347.0 | 2323.8 | 2289.1 | 2159.0 | 2102.6 | 2044.7 | 2117.0 | 2209.6 | 2319.5 | 2371.5 | 2477.1 |
| 22.5° | 2626.0 | 2626.0 | 2548.0 | 2390.3 | 2273.2 | 2218.3 | 2248.6 | 2302.1 | 2393.2 | 2464.1 | 2568.2 |
| 25°   | 2916.7 | 2908.0 | 2837.2 | 2673.8 | 2475.6 | 2410.6 | 2445.3 | 2482.9 | 2507.5 | 2546.5 | 2615.9 |
| 27.5° | 3249.3 | 3198.7 | 3109.0 | 2928.3 | 2753.3 | 2627.5 | 2665.1 | 2631.8 | 2601.5 | 2621.7 | 2721.5 |
| 30°   | 3474.9 | 3506.7 | 3392.4 | 3218.9 | 3054.1 | 2913.8 | 2921.0 | 2892.1 | 2753.3 | 2782.2 | 2841.5 |
| 32.5° | 3709.1 | 3729.4 | 3665.8 | 3570.3 | 3405.5 | 3242.1 | 3182.8 | 3158.2 | 3054.1 | 3067.1 | 3009.2 |
| 35°   | 3904.4 | 3943.4 | 3887.0 | 3845.1 | 3797.3 | 3665.8 | 3502.3 | 3581.9 | 3414.1 | 3382.3 | 3231.9 |
| 37.5° | 4083.7 | 4072.1 | 4138.6 | 4095.2 | 4085.1 | 3992.6 | 3813.3 | 3829.2 | 3716.4 | 3709.1 | 3535.6 |
| 40°   | 4244.2 | 4247.1 | 4338.2 | 4358.4 | 4317.9 | 4153.1 | 3892.8 | 4018.6 | 4109.7 | 4118.4 | 3895.7 |
| 42.5° | 4377.2 | 4416.3 | 4494.3 | 4657.7 | 4597.0 | 4322.3 | 3975.2 | 4112.6 | 4451.0 | 4504.5 | 4236.9 |
| 45°   | 4492.9 | 4572.4 | 4669.3 | 4815.4 | 4780.7 | 4562.3 | 4180.5 | 4306.4 | 4815.4 | 4955.6 | 4558.0 |
| 47.5° | 4500.1 | 4604.2 | 4709.8 | 4926.7 | 4970.1 | 4691.0 | 4393.1 | 4612.9 | 5104.6 | 5256.4 | 4792.2 |
| 50°   | 4471.2 | 4526.2 | 4737.3 | 4973.0 | 5071.3 | 4900.7 | 4691.0 | 4870.3 | 5385.1 | 5480.6 | 4910.8 |
| 52.5° | 4128.5 | 4170.4 | 4594.1 | 5016.4 | 5253.5 | 5137.8 | 5085.8 | 5228.9 | 5671.4 | 5742.3 | 5022.2 |
| 55°   | 3441.6 | 3434.4 | 4017.1 | 4798.0 | 5337.4 | 5489.2 | 5457.4 | 5508.0 | 6002.6 | 6066.2 | 5049.6 |
| 57.5° | 2354.2 | 2485.8 | 2989.0 | 3995.5 | 4824.0 | 5406.8 | 5440.1 | 5356.2 | 5616.5 | 5641.1 | 4401.8 |
| 60°   | 1269.6 | 1324.6 | 1729.5 | 2666.5 | 3673.0 | 4406.1 | 4492.9 | 4341.1 | 4320.8 | 4251.4 | 3142.3 |
| 62.5° | 504.7  | 532.1  | 762.1  | 1320.2 | 2001.3 | 2678.1 | 2864.6 | 2802.5 | 2669.4 | 2487.2 | 1626.8 |
| 65°   | 240.0  | 257.4  | 378.9  | 617.5  | 887.9  | 1116.4 | 1302.9 | 1360.7 | 1003.6 | 903.8  | 536.5  |
| 67.5° | 163.4  | 176.4  | 276.2  | 352.8  | 316.7  | 331.1  | 430.9  | 400.6  | 235.7  | 201.0  | 148.9  |
| 70°   | 124.4  | 133.0  | 221.2  | 240.0  | 141.7  | 99.8   | 111.3  | 104.1  | 96.9   | 98.3   | 96.9   |
| 72.5° | 88.2   | 95.4   | 162.0  | 141.7  | 62.2   | 46.3   | 59.3   | 70.9   | 70.9   | 70.9   | 69.4   |
| 75°   | 53.5   | 60.7   | 94.0   | 55.0   | 24.6   | 24.6   | 37.6   | 47.7   | 50.6   | 52.1   | 49.2   |
| 77.5° | 27.5   | 34.7   | 31.8   | 15.9   | 15.9   | 18.8   | 27.5   | 33.3   | 36.2   | 36.2   | 34.7   |
| 80°   | 5.8    | 5.8    | 5.8    | 8.7    | 15.9   | 20.2   | 27.5   | 30.4   | 34.7   | 34.7   | 31.8   |
| 82.5° | 0.0    | 1.4    | 4.3    | 8.7    | 14.5   | 18.8   | 26.0   | 30.4   | 34.7   | 36.2   | 33.3   |
| 85°   | 0.0    | 1.4    | 2.9    | 5.8    | 10.1   | 11.6   | 10.1   | 8.7    | 8.7    | 8.7    | 8.7    |
| 87.5° | 0.0    | 0.0    | 1.4    | 1.4    | 1.4    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 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°    | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 | 2079.4 |
| 2.5°  | 2099.7 | 2104.0 | 2096.8 | 2095.3 | 2089.6 | 2106.9 | 2065.0 | 2054.8 | 2080.9 | 2056.3 | 2062.1 |
| 5°    | 2127.1 | 2137.3 | 2124.3 | 2102.6 | 2070.8 | 2021.6 | 1979.7 | 1924.7 | 1898.7 | 1879.9 | 1877.0 |
| 7.5°  | 2147.4 | 2154.6 | 2141.6 | 2072.2 | 1976.8 | 1852.4 | 1759.9 | 1691.9 | 1638.4 | 1622.5 | 1596.4 |
| 10°   | 2229.8 | 2231.3 | 2166.2 | 2012.9 | 1826.4 | 1663.0 | 1521.3 | 1417.1 | 1363.6 | 1330.4 | 1315.9 |
| 12.5° | 2284.8 | 2281.9 | 2150.3 | 1895.8 | 1647.1 | 1430.2 | 1268.2 | 1142.4 | 1093.2 | 1077.3 | 1067.2 |
| 15°   | 2354.2 | 2338.3 | 2112.7 | 1775.8 | 1415.7 | 1181.4 | 1035.4 | 948.6  | 944.3  | 934.2  | 944.3  |
| 17.5° | 2409.1 | 2364.3 | 2057.7 | 1557.4 | 1194.4 | 973.2  | 877.8  | 883.5  | 895.1  | 905.2  | 906.7  |
| 20°   | 2498.8 | 2406.2 | 1931.9 | 1366.5 | 989.1  | 834.4  | 832.9  | 859.0  | 887.9  | 899.4  | 911.0  |
| 22.5° | 2566.8 | 2423.6 | 1797.4 | 1162.6 | 821.4  | 778.0  | 802.6  | 841.6  | 863.3  | 874.9  | 892.2  |
| 25°   | 2591.3 | 2375.9 | 1618.1 | 958.7  | 740.4  | 751.9  | 789.5  | 815.6  | 843.1  | 856.1  | 848.8  |
| 27.5° | 2615.9 | 2351.3 | 1404.1 | 789.5  | 697.0  | 734.6  | 766.4  | 792.4  | 801.1  | 818.5  | 830.0  |
| 30°   | 2675.2 | 2266.0 | 1211.8 | 682.5  | 675.3  | 723.0  | 746.2  | 754.8  | 778.0  | 788.1  | 788.1  |
| 32.5° | 2722.9 | 2232.7 | 1007.9 | 631.9  | 672.4  | 728.8  | 731.7  | 731.7  | 734.6  | 727.4  | 724.5  |
| 35°   | 2821.3 | 2118.5 | 825.7  | 601.6  | 671.0  | 730.3  | 737.5  | 712.9  | 646.4  | 620.4  | 613.1  |
| 37.5° | 2942.7 | 2044.7 | 691.2  | 594.3  | 681.1  | 747.6  | 759.2  | 666.6  | 579.9  | 537.9  | 530.7  |
| 40°   | 3090.2 | 1992.7 | 603.0  | 591.4  | 704.2  | 788.1  | 753.4  | 630.5  | 517.7  | 457.0  | 454.1  |
| 42.5° | 3262.3 | 1944.9 | 543.7  | 590.0  | 733.2  | 830.0  | 747.6  | 600.1  | 454.1  | 413.6  | 419.4  |
| 45°   | 3399.7 | 1918.9 | 503.2  | 579.9  | 743.3  | 854.6  | 751.9  | 546.6  | 428.0  | 402.0  | 404.9  |
| 47.5° | 3506.7 | 1864.0 | 470.0  | 562.5  | 741.8  | 863.3  | 712.9  | 524.9  | 415.0  | 422.2  | 429.5  |
| 50°   | 3509.6 | 1790.2 | 428.0  | 524.9  | 720.1  | 847.4  | 668.1  | 504.7  | 412.1  | 442.5  | 457.0  |
| 52.5° | 3470.5 | 1686.1 | 383.2  | 471.4  | 669.5  | 792.4  | 627.6  | 496.0  | 399.1  | 396.2  | 413.6  |
| 55°   | 3331.7 | 1490.9 | 308.0  | 381.8  | 565.4  | 653.6  | 591.4  | 480.1  | 360.1  | 326.8  | 329.7  |
| 57.5° | 2692.6 | 1068.6 | 227.0  | 273.3  | 400.6  | 478.6  | 533.6  | 472.9  | 323.9  | 277.6  | 279.1  |
| 60°   | 1667.3 | 605.9  | 166.3  | 186.5  | 247.3  | 290.7  | 432.4  | 439.6  | 289.2  | 234.3  | 231.4  |
| 62.5° | 856.1  | 299.3  | 128.7  | 131.6  | 151.8  | 170.6  | 296.4  | 368.7  | 261.7  | 222.7  | 222.7  |
| 65°   | 286.3  | 147.5  | 112.8  | 101.2  | 101.2  | 105.6  | 179.3  | 256.0  | 221.2  | 186.5  | 186.5  |
| 67.5° | 122.9  | 109.9  | 98.3   | 88.2   | 81.0   | 76.6   | 101.2  | 148.9  | 164.9  | 141.7  | 135.9  |
| 70°   | 95.4   | 92.5   | 85.3   | 73.7   | 63.6   | 57.8   | 59.3   | 76.6   | 94.0   | 91.1   | 88.2   |
| 72.5° | 70.9   | 70.9   | 68.0   | 57.8   | 49.2   | 41.9   | 39.0   | 40.5   | 44.8   | 46.3   | 47.7   |
| 75°   | 49.2   | 50.6   | 50.6   | 44.8   | 36.2   | 30.4   | 26.0   | 21.7   | 17.4   | 14.5   | 13.0   |
| 77.5° | 33.3   | 34.7   | 37.6   | 33.3   | 27.5   | 20.2   | 15.9   | 11.6   | 7.2    | 2.9    | 2.9    |
| 80°   | 28.9   | 33.3   | 36.2   | 33.3   | 28.9   | 21.7   | 15.9   | 8.7    | 4.3    | 0.0    | 0.0    |
| 82.5° | 30.4   | 33.3   | 37.6   | 31.8   | 27.5   | 20.2   | 15.9   | 10.1   | 4.3    | 1.4    | 0.0    |
| 85°   | 7.2    | 7.2    | 8.7    | 10.1   | 13.0   | 14.5   | 11.6   | 7.2    | 4.3    | 1.4    | 0.0    |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 1.4    | 1.4    | 1.4    | 1.4    | 0.0    | 0.0    |
| 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)