

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: P317756

Luminaire Tested: **GAN-SA2B-740-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11955 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

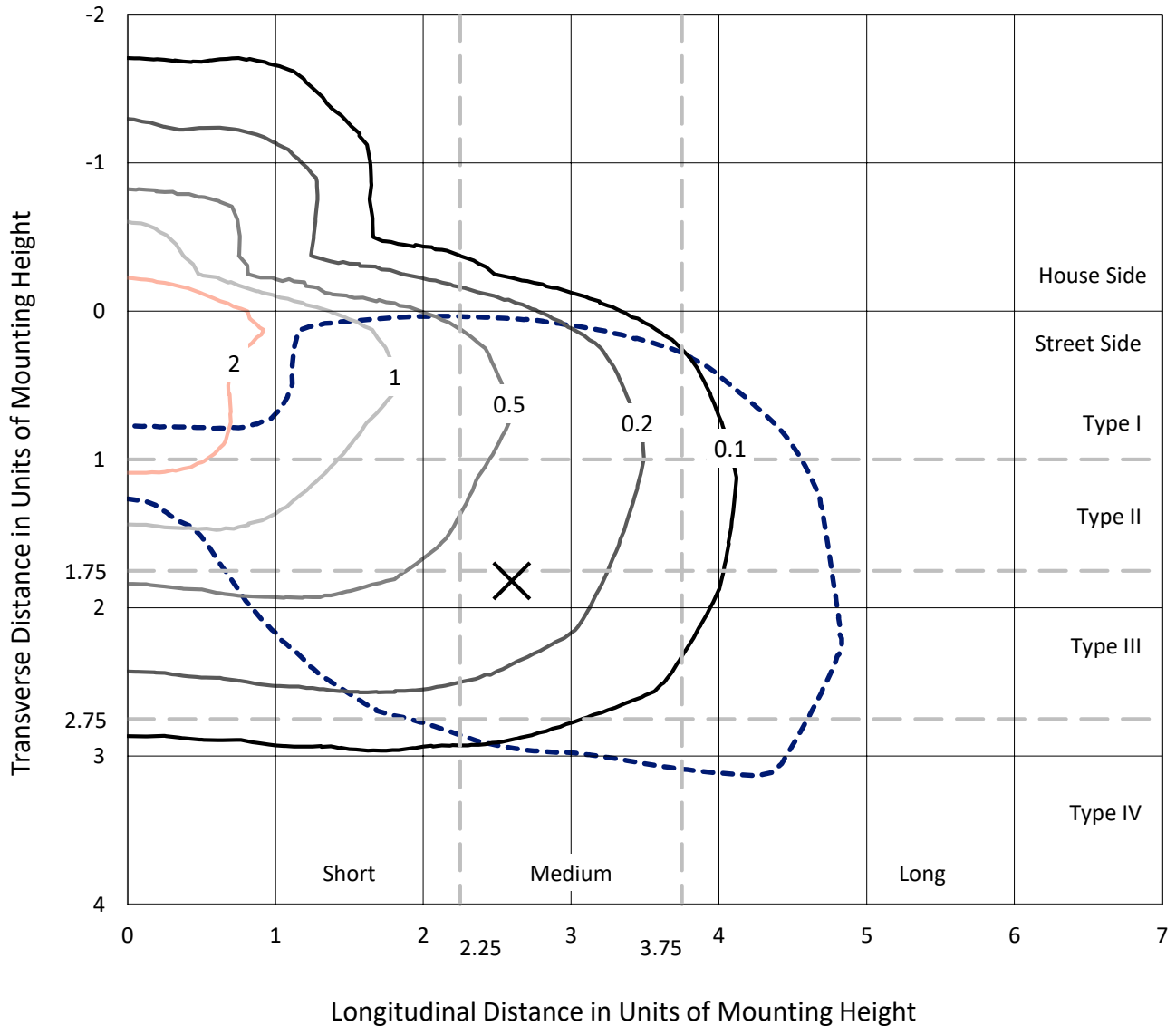
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

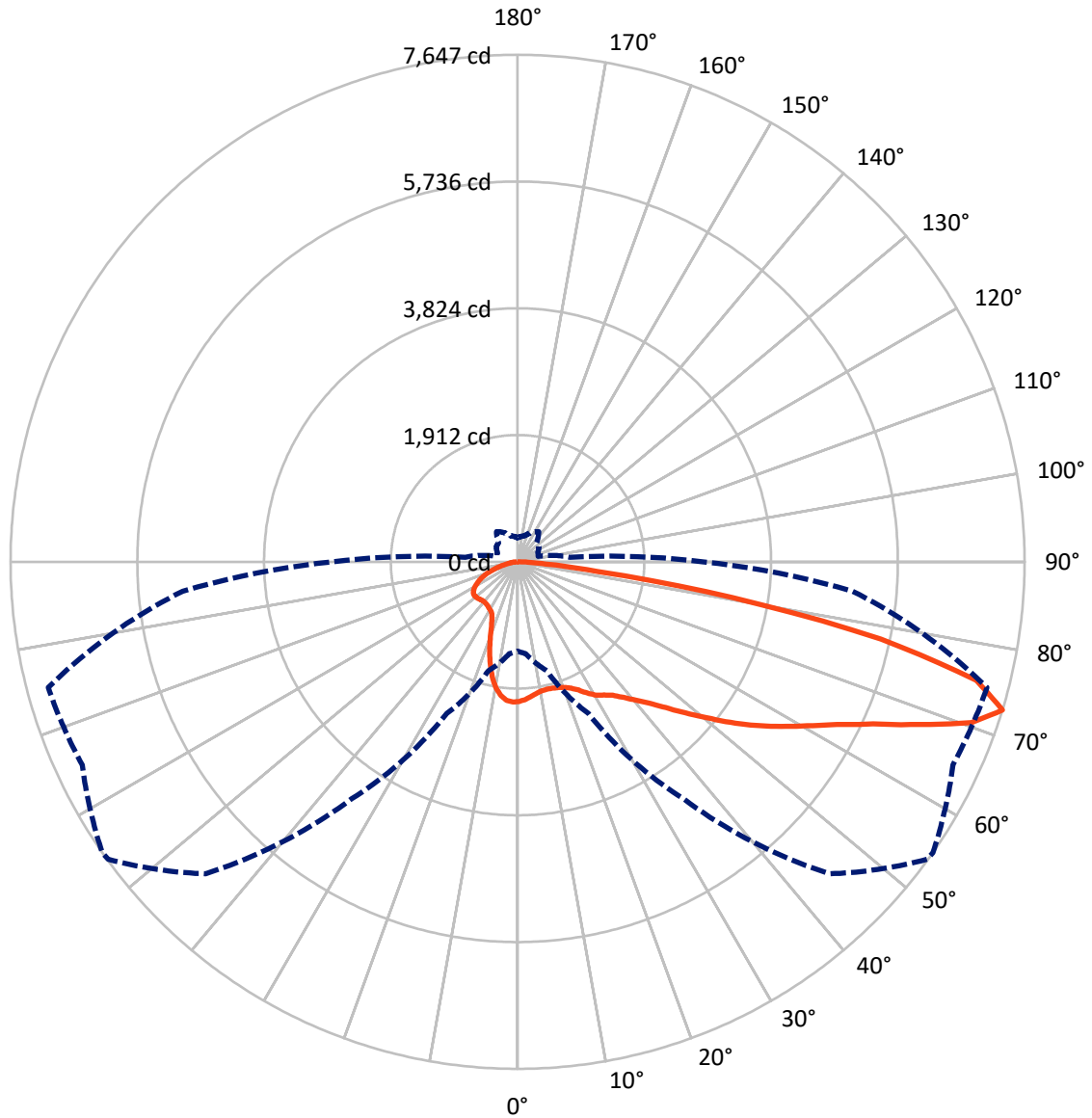
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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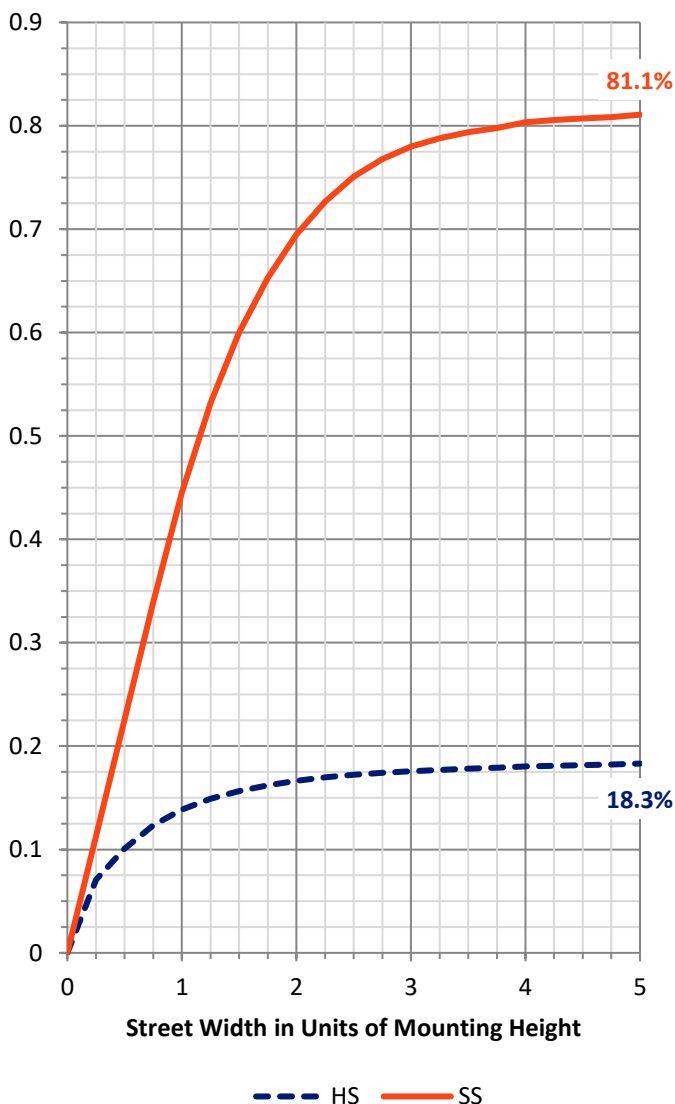
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2222.0   | 0.0    | 2222.0  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 9733.0   | 0.0    | 9733.0  |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 11955.0  | 0.0    | 11955.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 190.8   | 1.6       |
| 10°-20°   | 508.0   | 4.2       |
| 20°-30°   | 837.6   | 7.0       |
| 30°-40°   | 1238.9  | 10.4      |
| 40°-50°   | 1729.3  | 14.5      |
| 50°-60°   | 2251.6  | 18.8      |
| 60°-70°   | 2767.2  | 23.1      |
| 70°-80°   | 2169.1  | 18.1      |
| 80°-90°   | 262.5   | 2.2       |
| 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°    | 11955.0 | 100.0     |
| 0°-180°   | 11955.0 | 100.0     |

**Coefficient of Utilization**

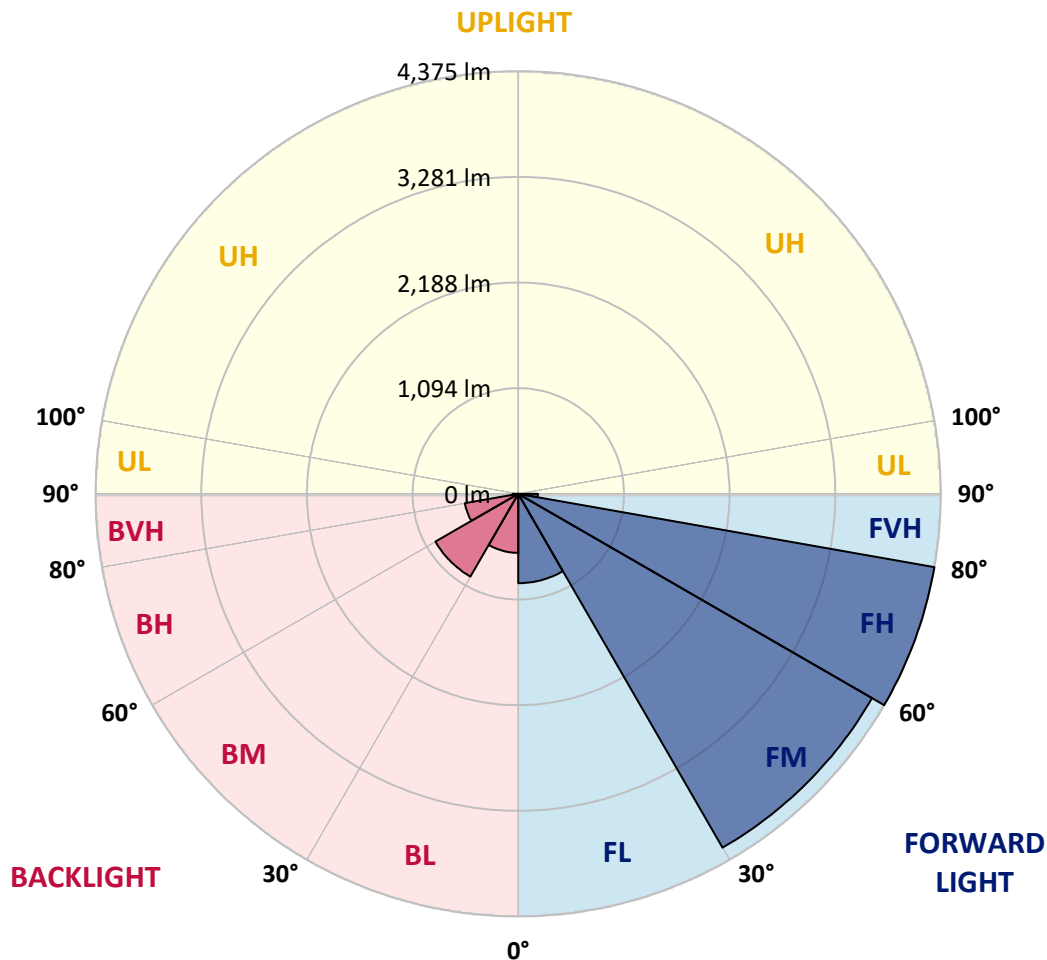


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 925.0  | 7.7       |                         |      |         |
| FM (30°-60°)   | 4229.9 | 35.4      |                         |      |         |
| FH (60°-80°)   | 4375.1 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 203.0  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 611.4  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 990.0  | 8.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 561.2  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 59.5   | 0.5       |                         |      | 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 IV Medium





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CATALOG NUMBER: GAN-SA2B-740-U-T3R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 |
| 2.5°  | 2040.0 | 2035.1 | 2041.2 | 2049.7 | 2058.9 | 2071.5 | 2078.7 | 2082.0 | 2094.5 | 2099.3 | 2109.8 |
| 5°    | 1945.5 | 1943.0 | 1953.1 | 1967.7 | 1988.3 | 2017.3 | 2040.8 | 2045.2 | 2078.3 | 2101.7 | 2123.1 |
| 7.5°  | 1876.8 | 1876.8 | 1888.5 | 1905.9 | 1928.9 | 1968.1 | 2001.2 | 2007.3 | 2063.4 | 2113.9 | 2153.4 |
| 10°   | 1822.3 | 1824.3 | 1838.1 | 1858.7 | 1885.7 | 1927.3 | 1971.3 | 1978.2 | 2059.3 | 2142.1 | 2205.1 |
| 12.5° | 1786.0 | 1790.8 | 1803.3 | 1821.9 | 1855.4 | 1905.9 | 1961.6 | 1970.9 | 2067.8 | 2182.5 | 2267.3 |
| 15°   | 1809.0 | 1817.1 | 1818.3 | 1825.9 | 1844.5 | 1899.4 | 1967.3 | 1977.0 | 2086.0 | 2223.7 | 2338.0 |
| 17.5° | 1909.9 | 1912.8 | 1900.2 | 1884.1 | 1875.2 | 1910.3 | 1984.2 | 1994.3 | 2107.8 | 2264.5 | 2405.8 |
| 20°   | 2063.4 | 2061.8 | 2034.7 | 1991.1 | 1945.9 | 1951.5 | 2012.1 | 2022.6 | 2137.3 | 2300.4 | 2473.6 |
| 22.5° | 2257.2 | 2251.5 | 2210.0 | 2129.6 | 2052.5 | 2020.2 | 2061.0 | 2069.8 | 2181.7 | 2351.7 | 2546.3 |
| 25°   | 2492.2 | 2479.7 | 2424.8 | 2317.0 | 2203.5 | 2120.3 | 2134.4 | 2142.9 | 2246.3 | 2409.0 | 2612.9 |
| 27.5° | 2740.1 | 2727.6 | 2657.8 | 2527.3 | 2376.3 | 2246.7 | 2235.8 | 2243.1 | 2319.8 | 2451.4 | 2662.2 |
| 30°   | 2999.4 | 2986.0 | 2922.2 | 2776.1 | 2559.6 | 2377.5 | 2330.3 | 2333.1 | 2371.5 | 2474.4 | 2702.6 |
| 32.5° | 3259.8 | 3247.3 | 3175.8 | 3006.2 | 2758.7 | 2518.1 | 2398.5 | 2394.9 | 2402.6 | 2498.3 | 2748.2 |
| 35°   | 3523.9 | 3528.7 | 3445.2 | 3257.4 | 2979.2 | 2674.3 | 2479.3 | 2471.6 | 2454.7 | 2547.1 | 2812.8 |
| 37.5° | 3806.6 | 3803.3 | 3695.1 | 3498.9 | 3209.7 | 2843.9 | 2595.2 | 2594.0 | 2535.4 | 2639.6 | 2914.2 |
| 40°   | 3995.5 | 3997.5 | 3931.7 | 3746.0 | 3442.7 | 3031.7 | 2743.8 | 2740.9 | 2664.2 | 2778.1 | 3047.0 |
| 42.5° | 4069.4 | 4082.7 | 4099.7 | 3981.8 | 3686.6 | 3249.3 | 2921.0 | 2917.0 | 2843.9 | 2976.8 | 3203.3 |
| 45°   | 4074.7 | 4101.3 | 4206.3 | 4191.4 | 3933.7 | 3498.5 | 3147.6 | 3136.3 | 3083.8 | 3240.8 | 3389.8 |
| 47.5° | 4029.4 | 4056.9 | 4231.3 | 4316.1 | 4154.6 | 3761.3 | 3412.5 | 3403.6 | 3358.3 | 3571.1 | 3591.7 |
| 50°   | 3930.5 | 3956.8 | 4179.7 | 4377.1 | 4336.3 | 4014.1 | 3717.7 | 3694.3 | 3670.1 | 3952.7 | 3822.7 |
| 52.5° | 3745.2 | 3795.7 | 4110.6 | 4391.6 | 4444.9 | 4238.6 | 4038.7 | 4023.4 | 4036.7 | 4355.3 | 4054.1 |
| 55°   | 3306.3 | 3362.8 | 3932.5 | 4379.5 | 4525.3 | 4427.2 | 4359.7 | 4358.9 | 4428.0 | 4777.7 | 4302.4 |
| 57.5° | 3060.3 | 3100.3 | 3569.9 | 4358.9 | 4620.6 | 4614.5 | 4677.5 | 4685.2 | 4819.7 | 5237.6 | 4562.5 |
| 60°   | 2921.4 | 2963.4 | 3386.2 | 4282.6 | 4768.4 | 4856.8 | 5001.8 | 5017.1 | 5217.8 | 5746.8 | 4875.4 |
| 62.5° | 2795.1 | 2841.1 | 3272.3 | 4127.2 | 4942.4 | 5203.3 | 5390.2 | 5404.0 | 5639.4 | 6270.1 | 5177.8 |
| 65°   | 2579.0 | 2631.1 | 3105.6 | 4025.0 | 5100.7 | 5655.1 | 5884.1 | 5893.4 | 6123.5 | 6818.4 | 5409.2 |
| 67.5° | 2273.8 | 2321.4 | 2791.0 | 3799.3 | 5217.8 | 6203.9 | 6540.6 | 6545.9 | 6603.6 | 7205.7 | 5527.5 |
| 70°   | 1917.2 | 1935.4 | 2342.8 | 3333.3 | 5079.3 | 6717.1 | 7260.2 | 7261.4 | 7041.3 | 7453.6 | 5508.1 |
| 72.5° | 1347.1 | 1389.9 | 1700.8 | 2523.3 | 4365.0 | 6654.5 | 7633.7 | 7647.4 | 7244.8 | 7328.4 | 5068.0 |
| 75°   | 826.2  | 871.4  | 1066.8 | 1529.2 | 2769.2 | 5233.6 | 7053.0 | 7148.3 | 6863.3 | 6534.2 | 4140.1 |
| 77.5° | 552.4  | 569.3  | 696.1  | 891.6  | 1254.6 | 3011.1 | 5422.5 | 5601.8 | 5701.6 | 4765.2 | 2647.7 |
| 80°   | 308.1  | 340.4  | 461.5  | 554.0  | 558.0  | 1196.4 | 3251.3 | 3293.3 | 3172.2 | 1897.4 | 816.9  |
| 82.5° | 163.1  | 180.9  | 308.1  | 325.5  | 304.5  | 400.6  | 1211.8 | 1213.0 | 1013.5 | 508.8  | 242.7  |
| 85°   | 126.4  | 141.3  | 211.2  | 198.7  | 155.5  | 177.7  | 399.8  | 421.6  | 344.8  | 208.4  | 79.1   |
| 87.5° | 63.0   | 78.3   | 143.3  | 126.0  | 61.0   | 50.9   | 142.9  | 152.6  | 136.1  | 81.6   | 28.7   |
| 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°    | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 | 2108.6 |
| 2.5°  | 2113.9 | 2117.5 | 2121.9 | 2117.1 | 2115.5 | 2109.0 | 2098.1 | 2095.7 | 2090.0 | 2090.4 | 2093.7 |
| 5°    | 2132.4 | 2138.5 | 2136.1 | 2117.5 | 2095.3 | 2064.2 | 2031.9 | 2004.4 | 1986.3 | 1985.0 | 1983.8 |
| 7.5°  | 2168.0 | 2172.0 | 2153.0 | 2100.1 | 2037.9 | 1966.1 | 1898.2 | 1838.9 | 1802.9 | 1794.1 | 1792.0 |
| 10°   | 2223.7 | 2222.9 | 2170.8 | 2064.2 | 1940.2 | 1811.8 | 1702.8 | 1620.4 | 1572.4 | 1558.2 | 1554.6 |
| 12.5° | 2285.9 | 2276.6 | 2176.8 | 1998.8 | 1802.1 | 1624.1 | 1486.0 | 1394.3 | 1344.2 | 1328.1 | 1324.0 |
| 15°   | 2350.1 | 2327.1 | 2161.9 | 1901.1 | 1632.5 | 1421.8 | 1276.8 | 1192.0 | 1164.9 | 1156.1 | 1154.4 |
| 17.5° | 2409.8 | 2365.4 | 2119.1 | 1768.6 | 1439.1 | 1220.3 | 1107.2 | 1073.3 | 1079.7 | 1091.5 | 1091.9 |
| 20°   | 2468.4 | 2391.3 | 2050.5 | 1601.4 | 1235.2 | 1054.3 | 1015.9 | 1041.0 | 1071.7 | 1095.5 | 1098.7 |
| 22.5° | 2526.1 | 2409.4 | 1962.0 | 1408.4 | 1052.7 | 961.0  | 988.1  | 1033.7 | 1068.8 | 1094.7 | 1099.1 |
| 25°   | 2574.6 | 2413.9 | 1840.1 | 1202.5 | 925.9  | 925.9  | 974.8  | 1018.0 | 1052.7 | 1078.1 | 1082.6 |
| 27.5° | 2592.3 | 2384.0 | 1668.1 | 1011.9 | 862.1  | 909.7  | 956.2  | 992.1  | 1021.6 | 1048.6 | 1053.5 |
| 30°   | 2599.2 | 2328.7 | 1469.4 | 858.9  | 835.9  | 892.4  | 931.1  | 961.8  | 989.7  | 1015.1 | 1019.6 |
| 32.5° | 2600.4 | 2262.0 | 1258.6 | 772.1  | 817.7  | 874.2  | 900.1  | 927.1  | 957.0  | 967.1  | 968.7  |
| 35°   | 2608.1 | 2183.3 | 1036.5 | 727.6  | 800.7  | 857.3  | 877.8  | 897.2  | 848.8  | 852.4  | 855.6  |
| 37.5° | 2630.3 | 2105.4 | 850.8  | 702.6  | 789.8  | 848.4  | 873.0  | 802.7  | 764.8  | 755.9  | 754.7  |
| 40°   | 2671.9 | 2022.2 | 713.1  | 682.4  | 785.8  | 852.8  | 841.9  | 749.4  | 684.0  | 635.2  | 627.9  |
| 42.5° | 2729.6 | 1932.6 | 625.1  | 669.1  | 788.6  | 874.2  | 798.7  | 698.2  | 589.5  | 558.0  | 554.0  |
| 45°   | 2794.6 | 1838.5 | 577.4  | 659.8  | 798.3  | 890.8  | 789.8  | 629.9  | 545.5  | 521.7  | 519.7  |
| 47.5° | 2857.6 | 1723.4 | 552.8  | 655.8  | 811.6  | 877.4  | 752.3  | 608.9  | 524.5  | 512.0  | 513.2  |
| 50°   | 2929.9 | 1619.6 | 537.9  | 651.3  | 823.3  | 869.0  | 709.9  | 598.0  | 516.5  | 531.8  | 547.9  |
| 52.5° | 2990.9 | 1512.2 | 524.5  | 642.4  | 827.8  | 854.0  | 699.0  | 600.0  | 516.5  | 545.9  | 561.3  |
| 55°   | 3063.2 | 1431.0 | 509.2  | 623.9  | 819.3  | 811.6  | 691.3  | 612.1  | 522.5  | 503.9  | 505.5  |
| 57.5° | 3156.4 | 1404.4 | 492.2  | 594.8  | 791.0  | 749.8  | 687.7  | 623.9  | 518.9  | 507.2  | 511.2  |
| 60°   | 3285.7 | 1432.7 | 485.4  | 556.8  | 747.0  | 701.4  | 688.1  | 617.8  | 493.4  | 473.2  | 473.6  |
| 62.5° | 3408.8 | 1464.2 | 485.0  | 533.0  | 692.9  | 658.2  | 678.8  | 598.0  | 480.5  | 468.8  | 473.2  |
| 65°   | 3449.2 | 1432.3 | 465.6  | 506.4  | 631.9  | 606.5  | 661.8  | 577.0  | 470.8  | 453.1  | 452.2  |
| 67.5° | 3395.1 | 1333.3 | 426.4  | 463.2  | 562.1  | 546.3  | 639.6  | 552.0  | 455.5  | 440.9  | 438.5  |
| 70°   | 3234.4 | 1112.4 | 377.9  | 406.2  | 482.5  | 478.5  | 604.5  | 522.9  | 434.9  | 422.4  | 411.9  |
| 72.5° | 2801.9 | 792.6  | 318.6  | 338.0  | 392.9  | 405.8  | 556.0  | 485.0  | 405.8  | 378.8  | 362.6  |
| 75°   | 2301.2 | 586.7  | 261.7  | 265.7  | 298.4  | 333.5  | 489.4  | 440.5  | 371.5  | 325.5  | 312.9  |
| 77.5° | 1409.2 | 359.0  | 208.4  | 210.0  | 214.0  | 266.1  | 403.0  | 390.9  | 327.9  | 271.3  | 262.5  |
| 80°   | 456.3  | 195.8  | 150.6  | 158.3  | 146.2  | 195.0  | 311.7  | 332.7  | 281.4  | 226.9  | 217.2  |
| 82.5° | 173.6  | 114.3  | 101.8  | 107.0  | 101.4  | 130.8  | 227.3  | 266.5  | 230.6  | 186.6  | 151.8  |
| 85°   | 84.0   | 64.6   | 60.2   | 67.4   | 62.6   | 67.0   | 145.4  | 196.2  | 174.8  | 121.5  | 113.1  |
| 87.5° | 29.9   | 28.7   | 23.0   | 31.1   | 26.7   | 23.8   | 44.4   | 98.9   | 115.5  | 83.6   | 74.7   |
| 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)