

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: P318017

Luminaire Tested: **GAN-SA3D-727-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19439 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

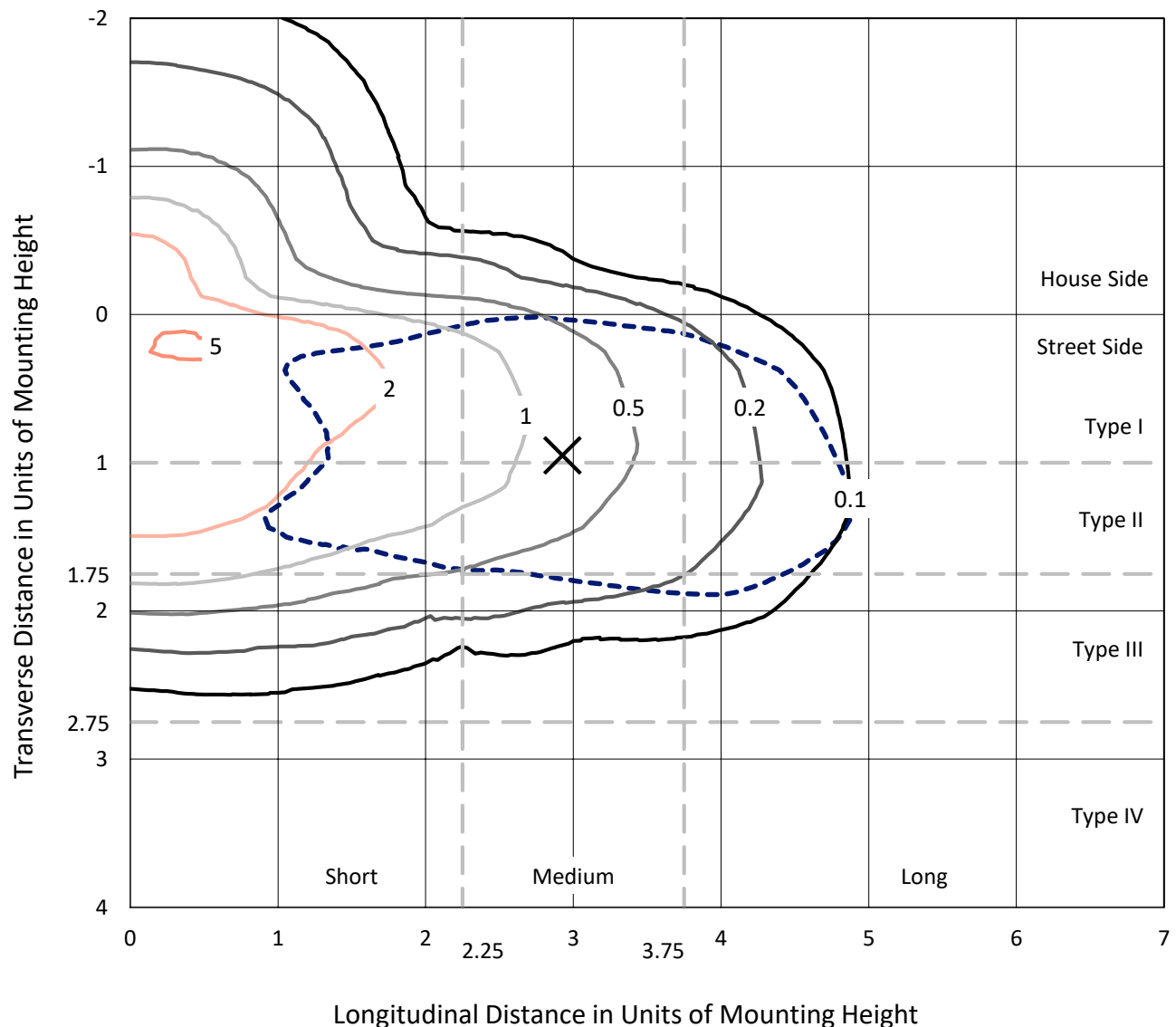
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

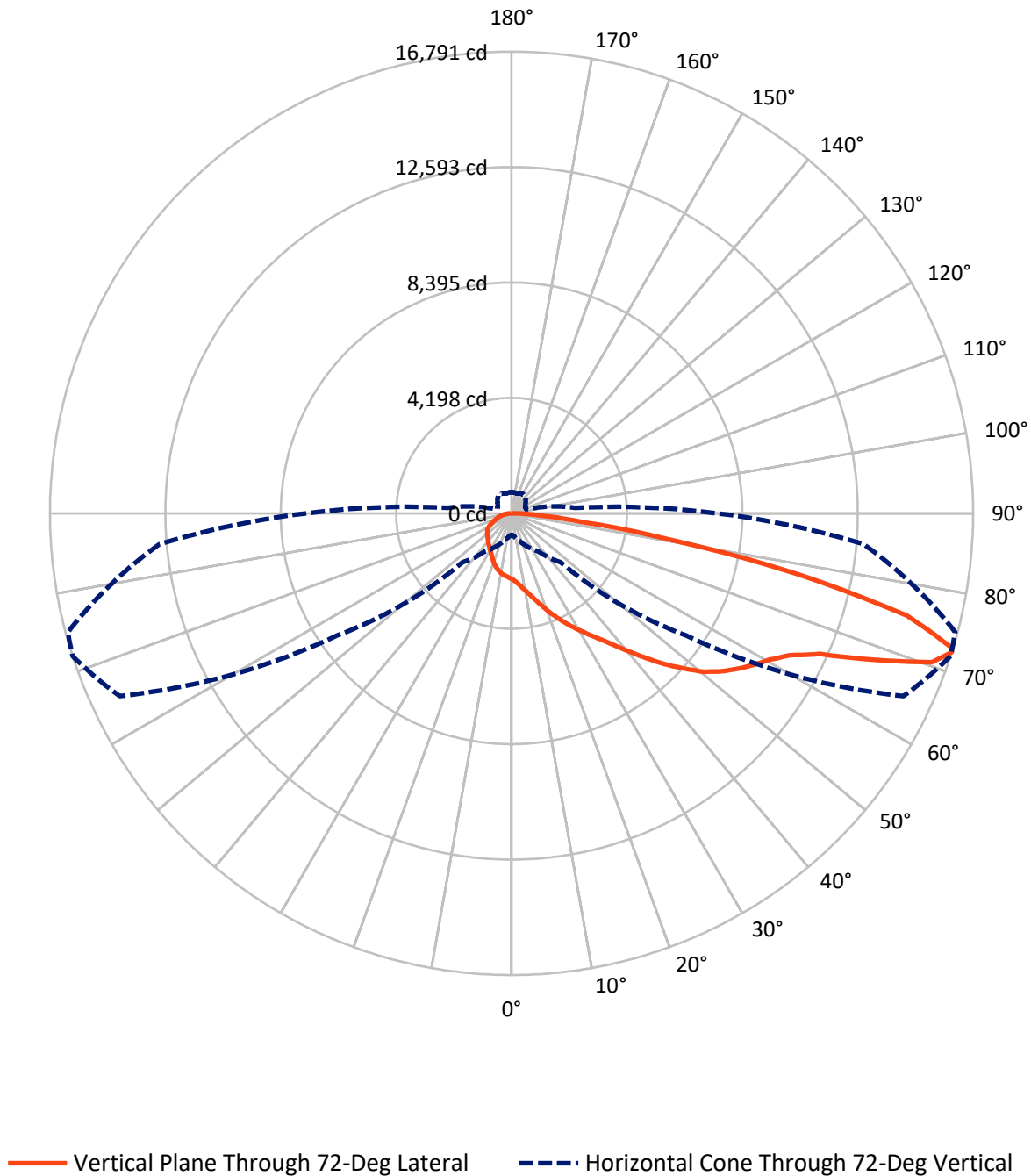
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3606.1   | 0.0    | 3606.1  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 15832.9  | 0.0    | 15832.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 19439.0  | 0.0    | 19439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 239.6   | 1.2       |
| 10°-20°   | 774.4   | 4.0       |
| 20°-30°   | 1357.0  | 7.0       |
| 30°-40°   | 2012.0  | 10.4      |
| 40°-50°   | 2942.7  | 15.1      |
| 50°-60°   | 4049.1  | 20.8      |
| 60°-70°   | 4507.8  | 23.2      |
| 70°-80°   | 3054.5  | 15.7      |
| 80°-90°   | 502.0   | 2.6       |
| 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°    | 19439.0 | 100.0     |
| 0°-180°   | 19439.0 | 100.0     |

**Coefficient of Utilization**



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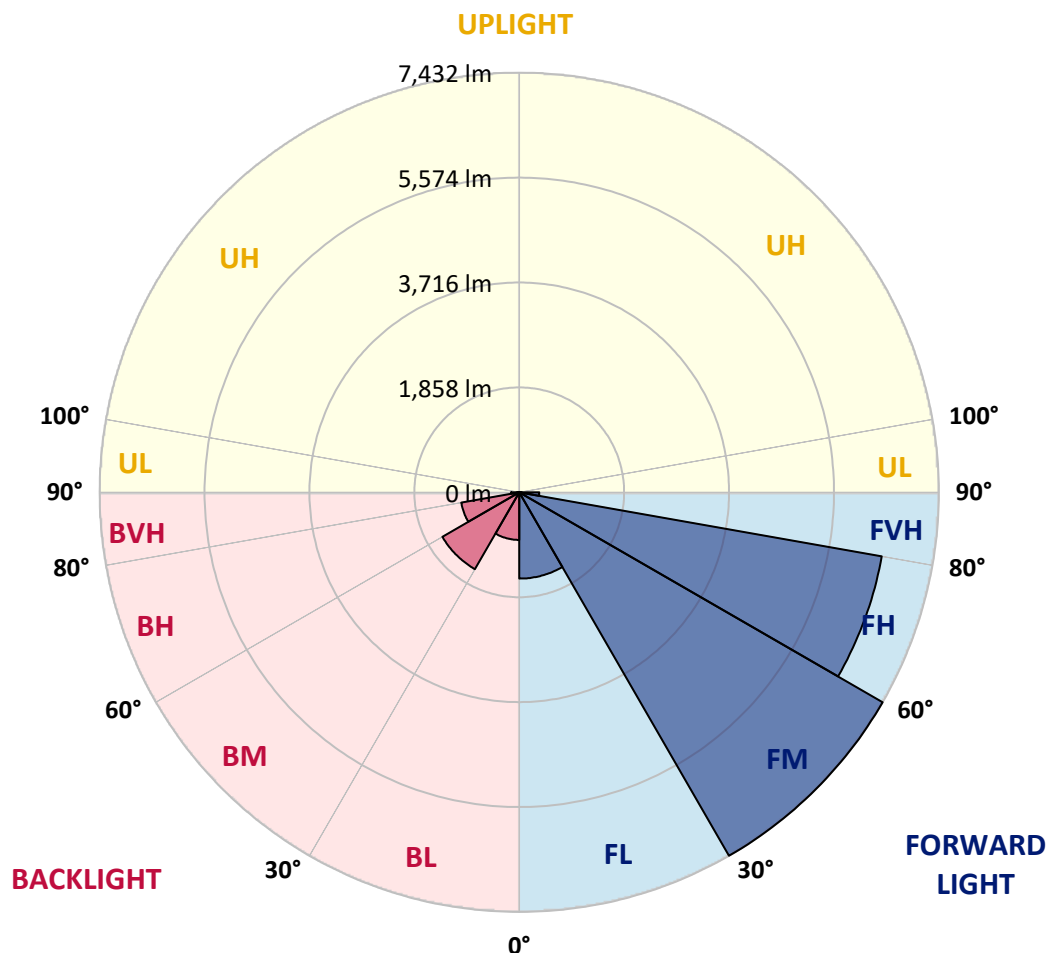
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1528.0 | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 7431.8 | 38.2      |                         |      |         |
| FH   | (60°-80°)   | 6519.0 | 33.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 354.1  | 1.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 843.0  | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1571.9 | 8.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1043.3 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 147.9  | 0.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5  | 2391.5  | 2391.5  | 2391.5  | 2391.5  |
| 2.5°  | 2641.8 | 2637.8 | 2623.8 | 2623.8 | 2597.0 | 2574.2 | 2531.4  | 2502.6  | 2468.5  | 2456.4  | 2416.3  |
| 5°    | 2897.5 | 2898.9 | 2881.5 | 2869.4 | 2829.9 | 2781.7 | 2708.8  | 2642.5  | 2576.2  | 2549.5  | 2467.1  |
| 7.5°  | 3112.4 | 3109.7 | 3105.0 | 3095.0 | 3058.2 | 3008.6 | 2910.2  | 2811.8  | 2714.1  | 2674.0  | 2532.1  |
| 10°   | 3250.3 | 3256.3 | 3260.3 | 3265.0 | 3249.6 | 3214.1 | 3121.1  | 3001.3  | 2873.4  | 2818.5  | 2609.7  |
| 12.5° | 3319.9 | 3330.6 | 3349.3 | 3381.4 | 3406.9 | 3402.9 | 3335.3  | 3208.1  | 3056.1  | 2987.2  | 2706.8  |
| 15°   | 3360.7 | 3374.7 | 3404.2 | 3461.8 | 3533.4 | 3574.2 | 3556.1  | 3441.0  | 3271.7  | 3186.7  | 2825.2  |
| 17.5° | 3386.1 | 3397.5 | 3443.0 | 3520.0 | 3626.4 | 3734.8 | 3782.4  | 3686.0  | 3515.3  | 3418.3  | 2961.1  |
| 20°   | 3403.5 | 3412.2 | 3469.1 | 3559.5 | 3697.4 | 3870.0 | 4002.6  | 3978.5  | 3783.7  | 3657.9  | 3103.0  |
| 22.5° | 3442.3 | 3449.7 | 3503.9 | 3595.0 | 3747.6 | 3970.4 | 4214.7  | 4250.9  | 4066.8  | 3924.3  | 3254.9  |
| 25°   | 3550.8 | 3550.8 | 3596.3 | 3659.9 | 3803.1 | 4057.5 | 4394.1  | 4554.1  | 4356.0  | 4190.0  | 3395.5  |
| 27.5° | 3757.6 | 3755.6 | 3772.3 | 3794.4 | 3902.8 | 4145.8 | 4554.1  | 4821.8  | 4655.8  | 4474.4  | 3532.0  |
| 30°   | 4002.6 | 4016.0 | 4018.0 | 4007.3 | 4058.1 | 4256.2 | 4702.0  | 5104.3  | 4957.7  | 4762.3  | 3671.9  |
| 32.5° | 4317.8 | 4326.5 | 4316.5 | 4281.0 | 4273.7 | 4412.9 | 4847.3  | 5400.1  | 5284.3  | 5062.8  | 3799.8  |
| 35°   | 4718.1 | 4701.4 | 4669.9 | 4597.6 | 4528.7 | 4622.4 | 5013.3  | 5696.0  | 5651.1  | 5426.2  | 3975.8  |
| 37.5° | 5147.1 | 5147.8 | 5109.0 | 4945.0 | 4849.9 | 4890.1 | 5242.2  | 6031.3  | 6094.9  | 5858.6  | 4201.4  |
| 40°   | 5491.2 | 5509.2 | 5533.3 | 5317.8 | 5194.6 | 5250.2 | 5533.3  | 6420.2  | 6619.6  | 6371.3  | 4495.2  |
| 42.5° | 5731.4 | 5752.2 | 5820.5 | 5685.3 | 5557.4 | 5660.5 | 5876.0  | 6835.2  | 7208.6  | 6963.0  | 4839.2  |
| 45°   | 5985.8 | 5997.2 | 6045.4 | 5987.1 | 5905.5 | 6137.7 | 6262.2  | 7264.9  | 7831.8  | 7593.5  | 5224.1  |
| 47.5° | 6253.5 | 6265.6 | 6315.1 | 6276.3 | 6233.4 | 6583.5 | 6665.2  | 7669.8  | 8428.8  | 8286.3  | 5635.1  |
| 50°   | 6584.2 | 6592.2 | 6639.1 | 6568.8 | 6582.2 | 6919.5 | 7025.3  | 8041.3  | 9054.7  | 8908.7  | 6047.4  |
| 52.5° | 7035.3 | 7037.3 | 7102.2 | 7038.6 | 6975.7 | 7165.8 | 7335.2  | 8391.3  | 9545.3  | 9476.3  | 6459.7  |
| 55°   | 7388.7 | 7410.1 | 7623.0 | 7609.6 | 7573.4 | 7389.4 | 7594.2  | 8724.7  | 9983.0  | 10015.8 | 6897.4  |
| 57.5° | 7163.1 | 7246.8 | 7677.8 | 7981.7 | 8277.6 | 7945.6 | 7944.2  | 9100.2  | 10390.0 | 10545.2 | 7378.7  |
| 60°   | 6273.6 | 6387.4 | 7022.6 | 7696.6 | 8622.3 | 8913.4 | 8671.1  | 9558.7  | 10800.9 | 11070.0 | 7981.7  |
| 62.5° | 4480.5 | 4667.9 | 5528.6 | 6604.9 | 8149.7 | 9554.6 | 10150.3 | 10286.2 | 11359.8 | 11677.7 | 8765.5  |
| 65°   | 2265.0 | 2406.9 | 3128.4 | 4424.9 | 6511.2 | 9135.6 | 11758.1 | 11879.2 | 12331.0 | 12613.5 | 9972.3  |
| 67.5° | 1376.1 | 1429.7 | 1781.7 | 2461.1 | 3991.9 | 7116.3 | 12282.8 | 14534.4 | 14210.5 | 14360.4 | 11693.1 |
| 70°   | 1014.0 | 1053.5 | 1273.1 | 1634.5 | 2295.8 | 4175.9 | 10672.4 | 16429.3 | 16216.4 | 16199.7 | 12964.9 |
| 72°   | 789.8  | 818.6  | 1012.7 | 1320.6 | 1678.7 | 2505.3 | 7735.4  | 15729.8 | 16790.7 | 16706.4 | 12848.4 |
| 72.5° | 749.0  | 774.4  | 951.1  | 1242.9 | 1586.3 | 2271.0 | 6955.0  | 15258.0 | 16749.2 | 16711.1 | 12697.8 |
| 75°   | 589.7  | 607.7  | 704.1  | 961.2  | 1241.6 | 1288.5 | 3811.1  | 11824.3 | 14858.4 | 15476.2 | 11420.7 |
| 77.5° | 487.9  | 490.6  | 541.5  | 699.4  | 967.8  | 911.0  | 1872.1  | 8203.9  | 10639.6 | 11319.0 | 8090.2  |
| 80°   | 397.6  | 400.9  | 425.0  | 490.6  | 732.2  | 674.0  | 888.9   | 4717.4  | 5957.0  | 5964.4  | 3847.3  |
| 82.5° | 316.6  | 317.3  | 344.0  | 358.8  | 526.1  | 481.9  | 509.4   | 2214.8  | 2603.0  | 2504.0  | 1382.8  |
| 85°   | 222.9  | 218.2  | 336.0  | 294.5  | 344.0  | 309.2  | 281.1   | 876.8   | 1076.3  | 1029.4  | 433.1   |
| 87.5° | 74.3   | 77.0   | 149.3  | 190.8  | 200.8  | 175.4  | 125.2   | 336.0   | 406.3   | 402.9   | 137.2   |
| 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°    | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 | 2391.5 |
| 2.5°  | 2403.6 | 2382.1 | 2350.7 | 2315.9 | 2288.4 | 2260.3 | 2239.6 | 2228.9 | 2216.8 | 2206.8 | 2218.8 |
| 5°    | 2429.0 | 2388.8 | 2321.9 | 2256.3 | 2208.1 | 2165.3 | 2134.5 | 2118.4 | 2103.7 | 2093.7 | 2095.0 |
| 7.5°  | 2470.5 | 2405.6 | 2293.1 | 2197.4 | 2130.5 | 2084.3 | 2052.8 | 2042.1 | 2032.7 | 2030.1 | 2033.4 |
| 10°   | 2514.7 | 2418.9 | 2255.0 | 2127.8 | 2051.5 | 2013.3 | 1999.3 | 2006.6 | 2013.3 | 2019.4 | 2026.1 |
| 12.5° | 2564.9 | 2431.0 | 2199.4 | 2046.1 | 1981.2 | 1966.5 | 1980.5 | 2012.7 | 2036.1 | 2050.1 | 2058.8 |
| 15°   | 2630.5 | 2441.7 | 2135.2 | 1964.5 | 1921.0 | 1937.7 | 1985.2 | 2040.8 | 2081.6 | 2107.7 | 2111.7 |
| 17.5° | 2690.7 | 2441.0 | 2052.8 | 1882.1 | 1872.1 | 1921.0 | 1992.6 | 2070.9 | 2125.8 | 2162.6 | 2170.0 |
| 20°   | 2752.9 | 2423.0 | 1957.1 | 1801.8 | 1822.6 | 1902.9 | 1995.9 | 2090.3 | 2156.6 | 2199.4 | 2209.4 |
| 22.5° | 2811.2 | 2391.5 | 1852.0 | 1728.9 | 1781.1 | 1878.8 | 1983.2 | 2078.9 | 2145.2 | 2180.0 | 2190.7 |
| 25°   | 2850.7 | 2336.6 | 1745.6 | 1667.3 | 1744.3 | 1849.3 | 1941.7 | 2018.7 | 2068.2 | 2085.6 | 2088.3 |
| 27.5° | 2870.7 | 2265.0 | 1645.2 | 1613.7 | 1706.1 | 1801.2 | 1864.7 | 1902.9 | 1917.0 | 1915.6 | 1912.9 |
| 30°   | 2873.4 | 2170.6 | 1558.9 | 1570.2 | 1661.9 | 1730.2 | 1760.3 | 1753.0 | 1734.9 | 1704.1 | 1706.8 |
| 32.5° | 2864.7 | 2064.2 | 1486.6 | 1528.7 | 1605.7 | 1643.9 | 1645.2 | 1609.7 | 1561.5 | 1512.7 | 1499.3 |
| 35°   | 2867.4 | 1959.8 | 1423.0 | 1481.9 | 1537.4 | 1554.2 | 1538.8 | 1486.6 | 1421.0 | 1358.1 | 1344.7 |
| 37.5° | 2896.8 | 1868.8 | 1368.1 | 1427.7 | 1461.8 | 1465.8 | 1443.7 | 1388.9 | 1340.7 | 1279.1 | 1273.7 |
| 40°   | 2967.1 | 1803.8 | 1315.9 | 1366.8 | 1386.2 | 1388.2 | 1356.7 | 1317.9 | 1321.9 | 1289.1 | 1288.5 |
| 42.5° | 3093.6 | 1775.7 | 1269.7 | 1303.2 | 1315.2 | 1319.2 | 1295.1 | 1270.4 | 1305.2 | 1283.8 | 1276.4 |
| 45°   | 3256.9 | 1782.4 | 1230.9 | 1240.9 | 1263.0 | 1281.8 | 1267.0 | 1236.9 | 1250.3 | 1157.3 | 1126.5 |
| 47.5° | 3445.7 | 1825.3 | 1200.1 | 1187.4 | 1225.5 | 1261.0 | 1238.3 | 1192.7 | 1145.2 | 1052.9 | 1035.4 |
| 50°   | 3666.6 | 1891.5 | 1172.0 | 1134.5 | 1184.7 | 1232.9 | 1210.1 | 1145.2 | 1073.6 | 1028.8 | 1022.7 |
| 52.5° | 3896.8 | 1972.5 | 1143.9 | 1076.3 | 1133.2 | 1211.5 | 1200.1 | 1134.5 | 1046.2 | 1002.0 | 994.0  |
| 55°   | 4157.9 | 2054.2 | 1108.4 | 1008.7 | 1077.6 | 1201.4 | 1195.4 | 1095.7 | 1025.4 | 1000.6 | 994.6  |
| 57.5° | 4482.5 | 2147.2 | 1061.6 | 938.4  | 1025.4 | 1165.3 | 1146.6 | 1072.3 | 1004.0 | 985.2  | 983.2  |
| 60°   | 4905.5 | 2284.4 | 994.0  | 863.4  | 961.8  | 1109.7 | 1105.7 | 1038.1 | 969.9  | 956.5  | 953.8  |
| 62.5° | 5540.0 | 2511.3 | 900.9  | 788.5  | 890.9  | 1015.4 | 1052.2 | 991.9  | 933.7  | 933.0  | 934.4  |
| 65°   | 6523.9 | 2852.7 | 799.8  | 722.9  | 819.3  | 935.7  | 989.9  | 944.4  | 896.9  | 910.3  | 912.3  |
| 67.5° | 7664.5 | 3135.8 | 700.8  | 658.6  | 746.3  | 860.1  | 933.7  | 896.9  | 848.0  | 882.8  | 883.5  |
| 70°   | 8044.0 | 2882.8 | 613.8  | 595.0  | 670.7  | 787.1  | 872.8  | 844.7  | 795.2  | 830.0  | 826.6  |
| 72°   | 7485.7 | 2327.2 | 557.5  | 546.8  | 613.8  | 726.9  | 818.6  | 795.8  | 747.0  | 770.4  | 761.7  |
| 72.5° | 7309.7 | 2218.8 | 543.5  | 534.8  | 598.4  | 711.5  | 804.5  | 783.8  | 734.9  | 755.0  | 747.0  |
| 75°   | 6520.6 | 1927.0 | 467.2  | 469.2  | 522.1  | 636.5  | 725.6  | 718.9  | 668.7  | 670.7  | 668.0  |
| 77.5° | 4729.5 | 1412.9 | 393.6  | 407.0  | 444.4  | 559.6  | 645.9  | 641.9  | 587.0  | 577.0  | 575.0  |
| 80°   | 2194.7 | 720.9  | 320.6  | 326.6  | 365.5  | 467.9  | 550.9  | 545.5  | 501.3  | 488.6  | 481.2  |
| 82.5° | 751.7  | 342.7  | 241.0  | 245.0  | 283.1  | 376.8  | 477.9  | 474.6  | 437.7  | 413.0  | 397.6  |
| 85°   | 268.4  | 170.7  | 168.7  | 164.7  | 202.1  | 296.5  | 416.3  | 398.2  | 344.0  | 293.2  | 291.8  |
| 87.5° | 87.0   | 73.0   | 87.0   | 86.3   | 117.8  | 200.8  | 302.5  | 257.7  | 249.7  | 207.5  | 203.5  |
| 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)