

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: P529026

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
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-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11609 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

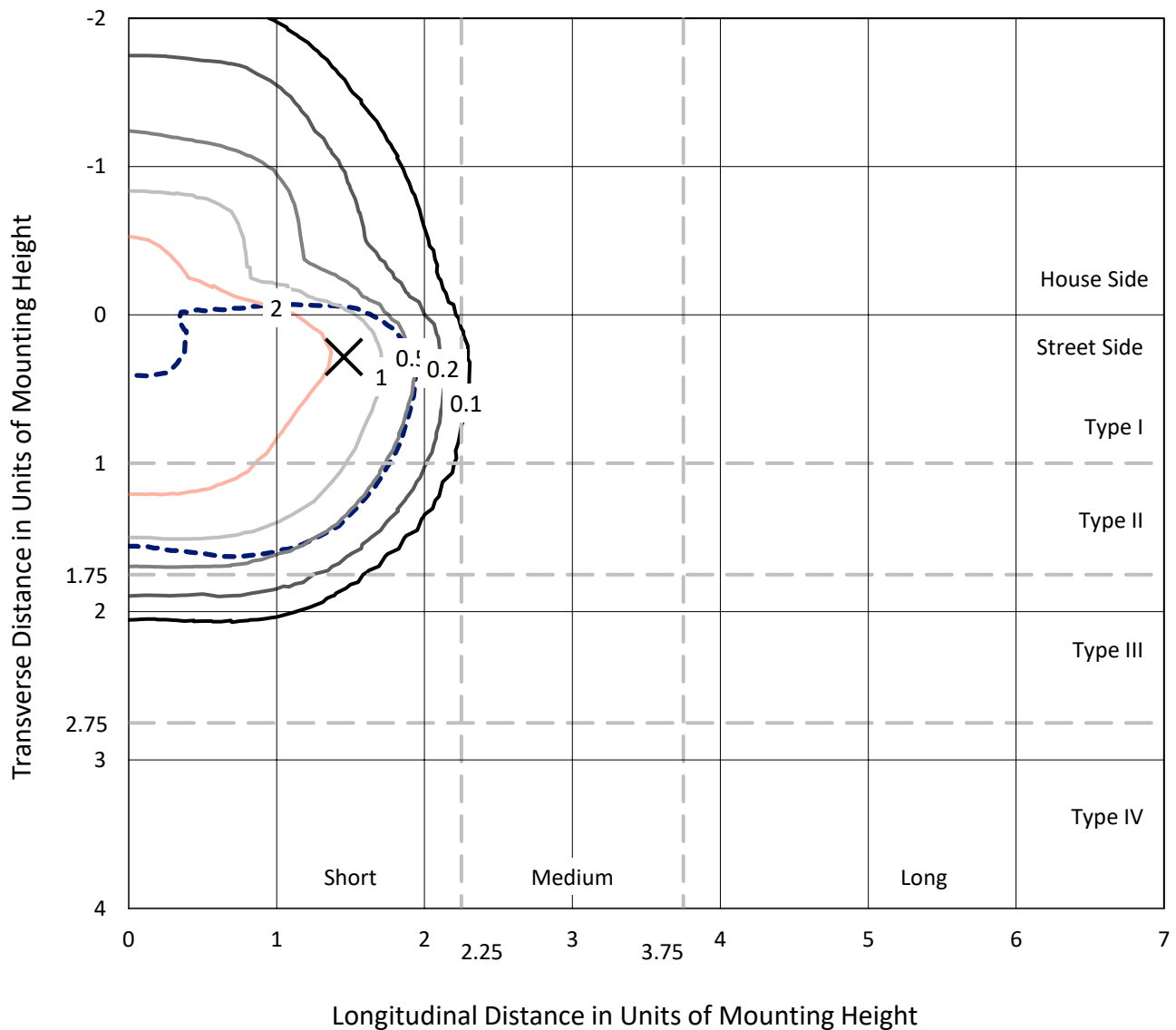
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

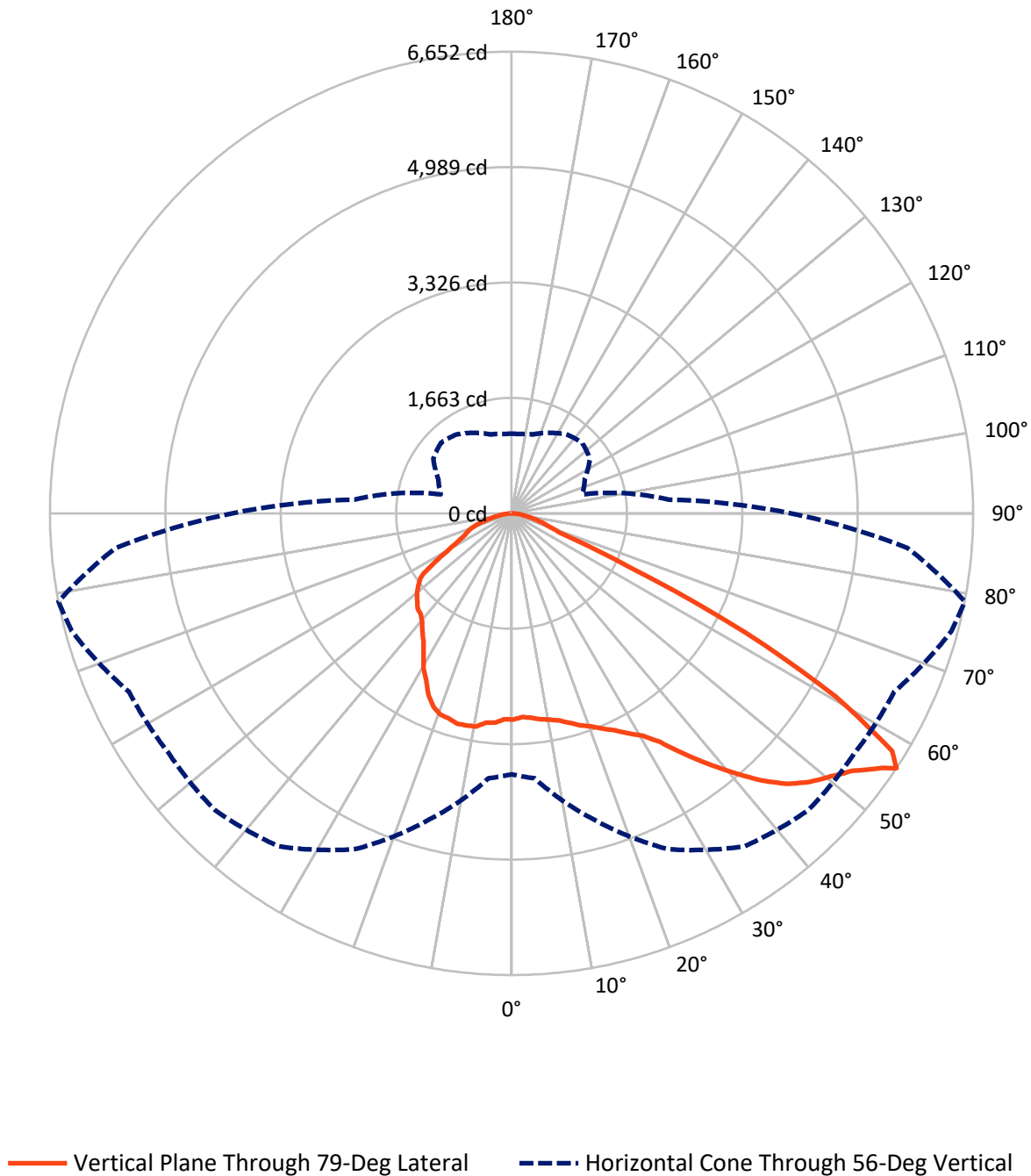
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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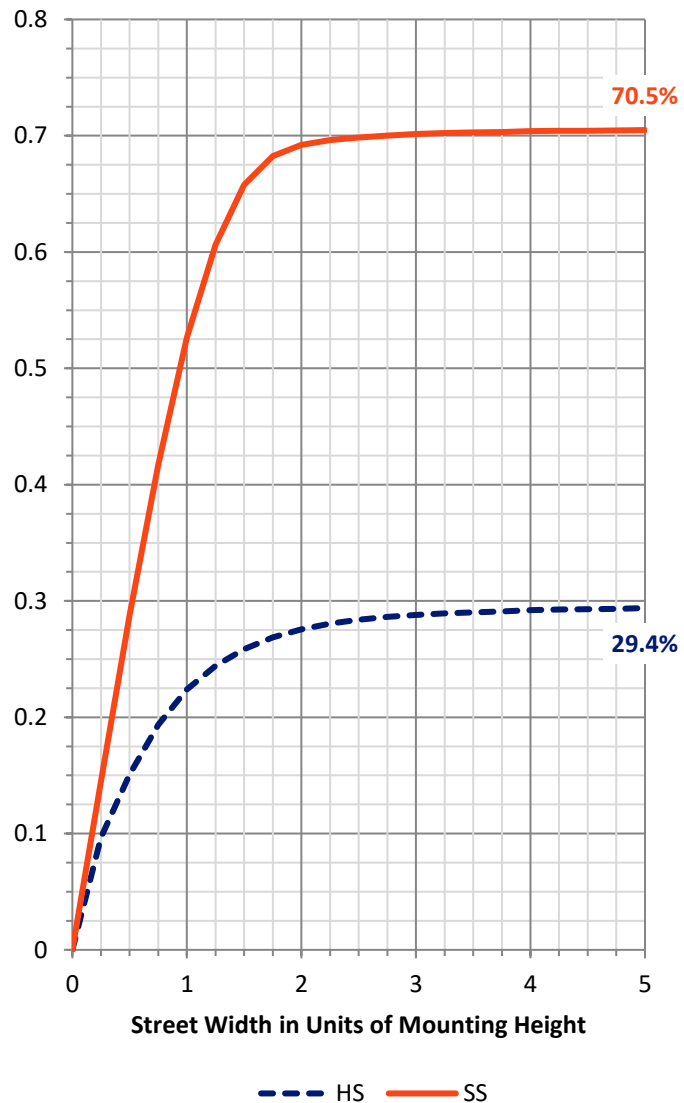
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3428.4   | 0.0    | 3428.4  |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 8180.6   | 0.0    | 8180.6  |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 11609.0  | 0.0    | 11609.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 270.1   | 2.3       |
| 10°-20°   | 739.1   | 6.4       |
| 20°-30°   | 1264.4  | 10.9      |
| 30°-40°   | 1937.9  | 16.7      |
| 40°-50°   | 2619.0  | 22.6      |
| 50°-60°   | 3008.0  | 25.9      |
| 60°-70°   | 1371.1  | 11.8      |
| 70°-80°   | 338.1   | 2.9       |
| 80°-90°   | 61.4    | 0.5       |
| 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°    | 11609.0 | 100.0     |
| 0°-180°   | 11609.0 | 100.0     |

**Coefficient of Utilization**



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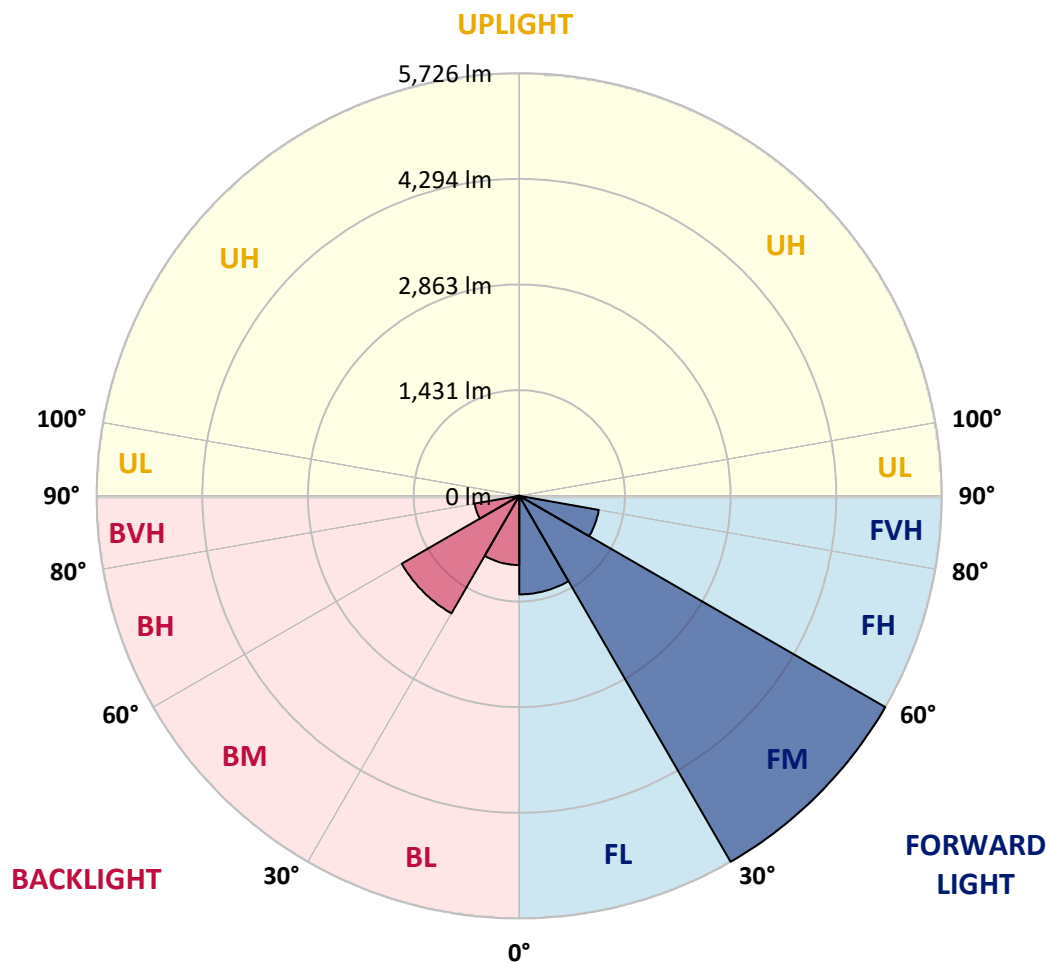
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1335.7 | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 5725.9 | 49.3      |                         |      |         |
| FH   | (60°-80°)   | 1094.5 | 9.4       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 24.5   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 937.8  | 8.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1838.9 | 15.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 614.7  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 36.9   | 0.3       |                         |      | 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°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 |
| 2.5°  | 2825.7 | 2818.4 | 2835.8 | 2848.8 | 2864.7 | 2885.0 | 2895.1 | 2900.9 | 2951.5 | 2938.5 | 2977.5 |
| 5°    | 2764.9 | 2746.1 | 2759.2 | 2769.3 | 2796.8 | 2821.3 | 2848.8 | 2892.2 | 2938.5 | 2958.7 | 3006.4 |
| 7.5°  | 2711.4 | 2701.3 | 2698.4 | 2705.6 | 2743.2 | 2775.1 | 2822.8 | 2886.4 | 2961.6 | 2994.9 | 3022.3 |
| 10°   | 2623.2 | 2608.8 | 2630.5 | 2678.2 | 2688.3 | 2754.8 | 2809.8 | 2900.9 | 2965.9 | 3023.8 | 3104.8 |
| 12.5° | 2584.2 | 2569.7 | 2574.1 | 2601.5 | 2672.4 | 2736.0 | 2801.1 | 2903.8 | 3041.1 | 3064.3 | 3172.7 |
| 15°   | 2646.4 | 2631.9 | 2636.2 | 2629.0 | 2697.0 | 2730.2 | 2832.9 | 2961.6 | 3093.2 | 3132.2 | 3247.9 |
| 17.5° | 2788.1 | 2789.5 | 2770.7 | 2754.8 | 2738.9 | 2809.8 | 2880.6 | 2996.3 | 3113.4 | 3211.8 | 3298.5 |
| 20°   | 3058.5 | 3010.8 | 2973.2 | 2883.5 | 2858.9 | 2889.3 | 2979.0 | 3090.3 | 3195.9 | 3276.9 | 3375.2 |
| 22.5° | 3266.7 | 3271.1 | 3217.6 | 3070.1 | 3016.6 | 3029.6 | 3106.2 | 3197.3 | 3313.0 | 3370.9 | 3483.6 |
| 25°   | 3569.0 | 3538.6 | 3480.8 | 3363.6 | 3243.6 | 3253.7 | 3310.1 | 3392.5 | 3424.4 | 3464.8 | 3587.8 |
| 27.5° | 3845.2 | 3853.8 | 3739.6 | 3629.7 | 3480.8 | 3451.8 | 3553.1 | 3567.5 | 3514.0 | 3590.7 | 3632.6 |
| 30°   | 4125.7 | 4118.5 | 4043.3 | 3914.6 | 3768.5 | 3774.3 | 3819.1 | 3748.3 | 3674.5 | 3716.5 | 3745.4 |
| 32.5° | 4416.4 | 4334.0 | 4331.1 | 4215.4 | 4104.0 | 4050.5 | 3995.6 | 4030.3 | 3916.0 | 3924.7 | 3897.2 |
| 35°   | 4649.2 | 4660.8 | 4594.3 | 4511.8 | 4456.9 | 4362.9 | 4212.5 | 4274.7 | 4253.0 | 4242.8 | 4124.3 |
| 37.5° | 4818.4 | 4773.6 | 4806.8 | 4779.4 | 4727.3 | 4610.2 | 4454.0 | 4513.3 | 4523.4 | 4572.6 | 4435.2 |
| 40°   | 4957.2 | 4938.4 | 5026.6 | 5041.1 | 5004.9 | 4751.9 | 4471.3 | 4647.8 | 4799.6 | 4906.6 | 4743.2 |
| 42.5° | 5023.7 | 5064.2 | 5156.8 | 5268.1 | 5187.2 | 4916.7 | 4561.0 | 4750.4 | 5088.8 | 5258.0 | 5035.3 |
| 45°   | 5113.4 | 5061.3 | 5198.7 | 5402.6 | 5404.1 | 5055.6 | 4647.8 | 4889.3 | 5314.4 | 5560.2 | 5234.9 |
| 47.5° | 5022.3 | 5048.3 | 5190.0 | 5448.9 | 5515.4 | 5201.6 | 4882.0 | 5085.9 | 5563.1 | 5781.5 | 5420.0 |
| 50°   | 4818.4 | 4870.5 | 5129.3 | 5398.3 | 5599.3 | 5356.3 | 5151.0 | 5298.5 | 5793.1 | 5959.4 | 5450.3 |
| 52.5° | 4605.8 | 4634.7 | 5039.6 | 5437.3 | 5636.9 | 5555.9 | 5511.1 | 5592.1 | 6073.6 | 6160.4 | 5487.9 |
| 55°   | 4027.4 | 4164.8 | 4743.2 | 5420.0 | 5820.5 | 5916.0 | 5881.3 | 5999.9 | 6391.7 | 6478.5 | 5693.3 |
| 56°   | 3759.9 | 3832.2 | 4565.3 | 5339.0 | 5856.7 | 6047.6 | 6030.2 | 6083.7 | 6560.9 | 6652.0 | 5725.1 |
| 57.5° | 3265.3 | 3271.1 | 3892.9 | 4980.4 | 5720.8 | 6086.6 | 6069.3 | 6111.2 | 6527.7 | 6465.5 | 5446.0 |
| 60°   | 2043.3 | 2133.0 | 2649.2 | 3830.7 | 4864.7 | 5647.0 | 5745.3 | 5408.4 | 5503.8 | 5372.3 | 4237.1 |
| 62.5° | 1058.5 | 1045.5 | 1388.3 | 2240.0 | 3229.1 | 4043.3 | 4134.4 | 4118.5 | 3971.0 | 3778.7 | 2767.8 |
| 65°   | 527.8  | 530.7  | 725.9  | 1109.2 | 1654.3 | 2117.1 | 2371.6 | 2399.1 | 2007.2 | 1846.7 | 1313.1 |
| 67.5° | 383.2  | 397.7  | 522.0  | 678.2  | 779.4  | 872.0  | 1068.7 | 1048.4 | 793.9  | 754.9  | 699.9  |
| 70°   | 297.9  | 310.9  | 423.7  | 517.7  | 470.0  | 470.0  | 511.9  | 529.3  | 565.4  | 581.3  | 600.1  |
| 72.5° | 216.9  | 227.0  | 323.9  | 357.2  | 308.0  | 331.2  | 383.2  | 423.7  | 461.3  | 467.1  | 488.8  |
| 75°   | 148.9  | 157.6  | 212.6  | 196.7  | 185.1  | 228.5  | 280.5  | 318.1  | 345.6  | 360.1  | 373.1  |
| 77.5° | 96.9   | 99.8   | 121.5  | 102.7  | 118.6  | 147.5  | 182.2  | 214.0  | 241.5  | 253.1  | 256.0  |
| 80°   | 43.4   | 47.7   | 52.1   | 65.1   | 82.4   | 105.6  | 130.1  | 156.2  | 173.5  | 177.9  | 186.5  |
| 82.5° | 24.6   | 24.6   | 31.8   | 46.3   | 60.7   | 76.6   | 94.0   | 112.8  | 133.0  | 137.4  | 135.9  |
| 85°   | 13.0   | 13.0   | 18.8   | 27.5   | 37.6   | 44.8   | 43.4   | 44.8   | 47.7   | 55.0   | 53.5   |
| 87.5° | 4.3    | 4.3    | 5.8    | 5.8    | 7.2    | 8.7    | 7.2    | 10.1   | 13.0   | 13.0   | 13.0   |
| 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°    | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 | 2970.3 |
| 2.5°  | 2965.9 | 2979.0 | 2961.6 | 2999.2 | 2999.2 | 2992.0 | 2955.8 | 2967.4 | 2976.1 | 2976.1 | 2983.3 |
| 5°    | 3022.3 | 3018.0 | 3029.6 | 2984.7 | 2957.3 | 2947.1 | 2887.9 | 2858.9 | 2834.4 | 2832.9 | 2811.2 |
| 7.5°  | 3054.2 | 3042.6 | 3038.2 | 3005.0 | 2883.5 | 2809.8 | 2682.5 | 2608.8 | 2592.9 | 2536.5 | 2558.1 |
| 10°   | 3104.8 | 3126.5 | 3104.8 | 2924.0 | 2754.8 | 2585.6 | 2461.3 | 2347.0 | 2302.2 | 2266.0 | 2244.3 |
| 12.5° | 3208.9 | 3198.8 | 3073.0 | 2828.6 | 2591.4 | 2390.4 | 2205.3 | 2085.3 | 2040.4 | 2008.6 | 2005.7 |
| 15°   | 3297.1 | 3246.5 | 3054.2 | 2678.2 | 2336.9 | 2122.9 | 1971.0 | 1885.7 | 1865.5 | 1868.4 | 1881.4 |
| 17.5° | 3327.5 | 3292.8 | 2955.8 | 2522.0 | 2147.5 | 1895.8 | 1825.0 | 1812.0 | 1830.8 | 1852.5 | 1858.2 |
| 20°   | 3375.2 | 3320.2 | 2915.3 | 2309.4 | 1913.2 | 1754.1 | 1749.8 | 1796.1 | 1830.8 | 1862.6 | 1866.9 |
| 22.5° | 3475.0 | 3336.1 | 2783.7 | 2108.4 | 1752.7 | 1712.2 | 1754.1 | 1793.2 | 1846.7 | 1872.7 | 1849.6 |
| 25°   | 3503.9 | 3301.4 | 2598.6 | 1866.9 | 1651.4 | 1686.1 | 1731.0 | 1784.5 | 1822.1 | 1836.5 | 1846.7 |
| 27.5° | 3528.5 | 3247.9 | 2348.5 | 1706.4 | 1619.6 | 1684.7 | 1731.0 | 1775.8 | 1796.1 | 1809.1 | 1820.6 |
| 30°   | 3597.9 | 3232.0 | 2131.5 | 1599.4 | 1599.4 | 1655.8 | 1715.1 | 1726.6 | 1754.1 | 1770.0 | 1790.3 |
| 32.5° | 3632.6 | 3122.1 | 1908.8 | 1531.4 | 1579.1 | 1670.2 | 1674.6 | 1696.3 | 1697.7 | 1710.7 | 1689.0 |
| 35°   | 3723.7 | 3044.0 | 1702.1 | 1482.2 | 1587.8 | 1655.8 | 1677.5 | 1664.5 | 1593.6 | 1558.9 | 1566.1 |
| 37.5° | 3790.2 | 3005.0 | 1553.1 | 1476.5 | 1589.3 | 1671.7 | 1683.3 | 1584.9 | 1511.2 | 1453.3 | 1467.8 |
| 40°   | 3969.5 | 2908.1 | 1440.3 | 1466.3 | 1602.3 | 1689.0 | 1657.2 | 1550.2 | 1417.2 | 1357.9 | 1347.8 |
| 42.5° | 4106.9 | 2838.7 | 1369.5 | 1454.8 | 1612.4 | 1713.6 | 1644.2 | 1480.8 | 1344.9 | 1289.9 | 1304.4 |
| 45°   | 4266.0 | 2822.8 | 1331.9 | 1457.7 | 1629.8 | 1726.6 | 1628.3 | 1427.3 | 1282.7 | 1261.0 | 1256.7 |
| 47.5° | 4322.4 | 2708.5 | 1291.4 | 1433.1 | 1625.4 | 1722.3 | 1574.8 | 1386.8 | 1259.6 | 1262.4 | 1274.0 |
| 50°   | 4228.4 | 2591.4 | 1261.0 | 1382.5 | 1596.5 | 1683.3 | 1490.9 | 1333.3 | 1246.5 | 1282.7 | 1302.9 |
| 52.5° | 4108.4 | 2471.4 | 1198.8 | 1314.5 | 1537.2 | 1622.5 | 1451.9 | 1330.4 | 1233.5 | 1222.0 | 1226.3 |
| 55°   | 4144.5 | 2373.0 | 1112.0 | 1222.0 | 1441.8 | 1509.7 | 1408.5 | 1302.9 | 1201.7 | 1158.3 | 1172.8 |
| 56°   | 4027.4 | 2271.8 | 1055.7 | 1164.1 | 1376.7 | 1437.4 | 1386.8 | 1278.3 | 1175.7 | 1146.8 | 1146.8 |
| 57.5° | 3696.2 | 1932.0 | 981.9  | 1071.6 | 1239.3 | 1311.6 | 1344.9 | 1263.9 | 1146.8 | 1096.1 | 1097.6 |
| 60°   | 2725.9 | 1373.8 | 880.7  | 944.3  | 1026.7 | 1084.6 | 1239.3 | 1223.4 | 1074.5 | 1039.7 | 1026.7 |
| 62.5° | 1680.4 | 1003.6 | 808.4  | 833.0  | 874.9  | 922.6  | 1081.7 | 1107.7 | 997.8  | 960.2  | 951.5  |
| 65°   | 941.4  | 767.9  | 753.4  | 763.5  | 783.8  | 808.4  | 898.0  | 955.9  | 880.7  | 822.8  | 819.9  |
| 67.5° | 688.3  | 686.9  | 698.5  | 707.1  | 715.8  | 715.8  | 737.5  | 760.6  | 750.5  | 704.2  | 699.9  |
| 70°   | 611.7  | 616.0  | 624.7  | 626.2  | 629.1  | 618.9  | 601.6  | 594.3  | 605.9  | 577.0  | 571.2  |
| 72.5° | 504.7  | 519.1  | 529.3  | 530.7  | 514.8  | 501.8  | 478.7  | 454.1  | 445.4  | 439.6  | 438.2  |
| 75°   | 387.6  | 397.7  | 402.0  | 400.6  | 394.8  | 376.0  | 348.5  | 323.9  | 308.0  | 290.7  | 299.3  |
| 77.5° | 261.7  | 276.2  | 283.4  | 283.4  | 274.8  | 245.8  | 232.8  | 214.0  | 198.1  | 179.3  | 182.2  |
| 80°   | 183.7  | 193.8  | 205.3  | 203.9  | 189.4  | 175.0  | 156.2  | 138.8  | 125.8  | 111.3  | 109.9  |
| 82.5° | 137.4  | 143.2  | 148.9  | 146.1  | 135.9  | 121.5  | 108.5  | 92.6   | 78.1   | 68.0   | 68.0   |
| 85°   | 49.2   | 53.5   | 65.1   | 68.0   | 73.8   | 73.8   | 62.2   | 52.1   | 41.9   | 34.7   | 34.7   |
| 87.5° | 14.5   | 14.5   | 15.9   | 15.9   | 14.5   | 15.9   | 13.0   | 14.5   | 15.9   | 10.1   | 10.1   |
| 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)