

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: P530193

Luminaire Tested: **GLAN-SA5B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12509 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

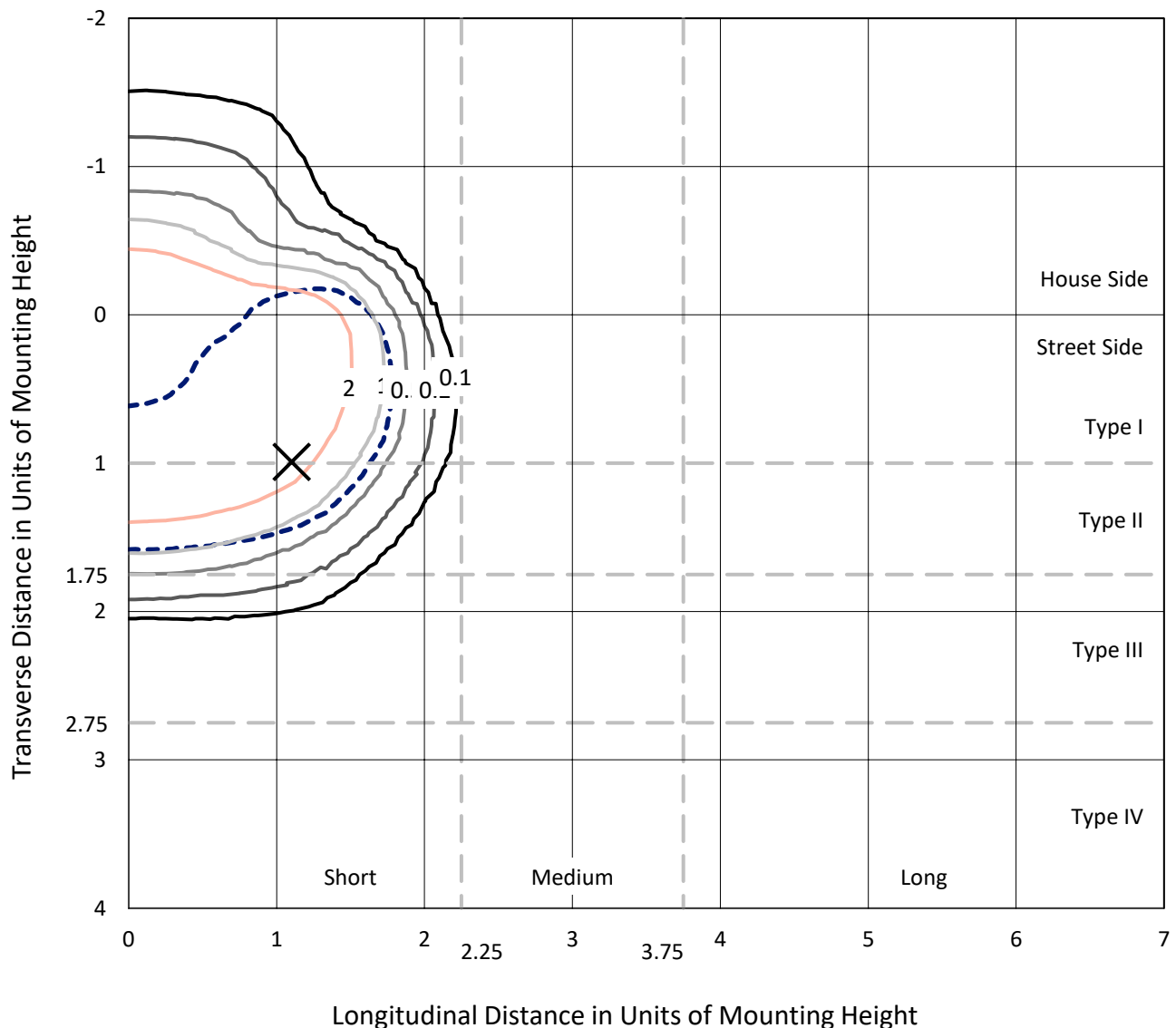
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

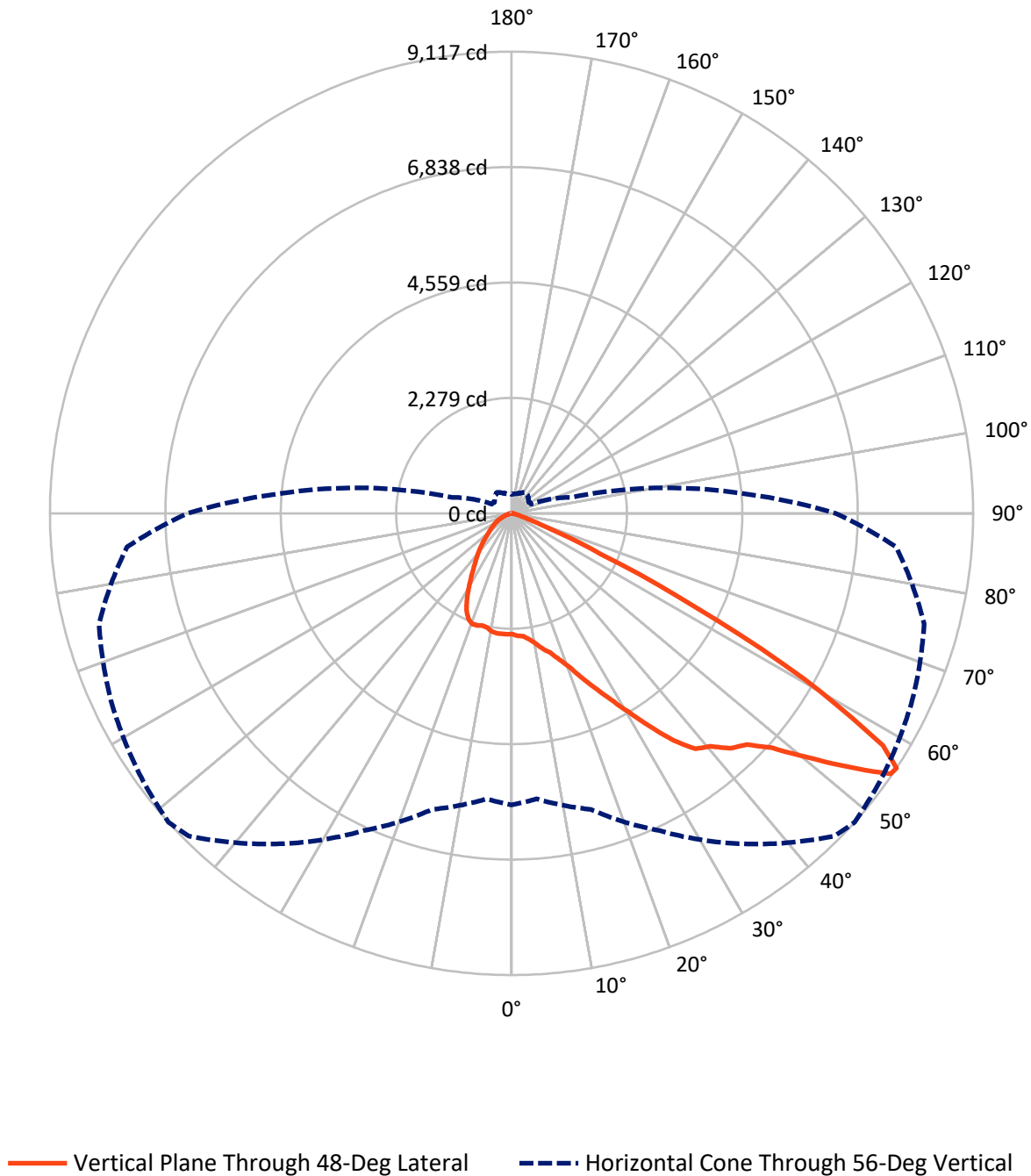
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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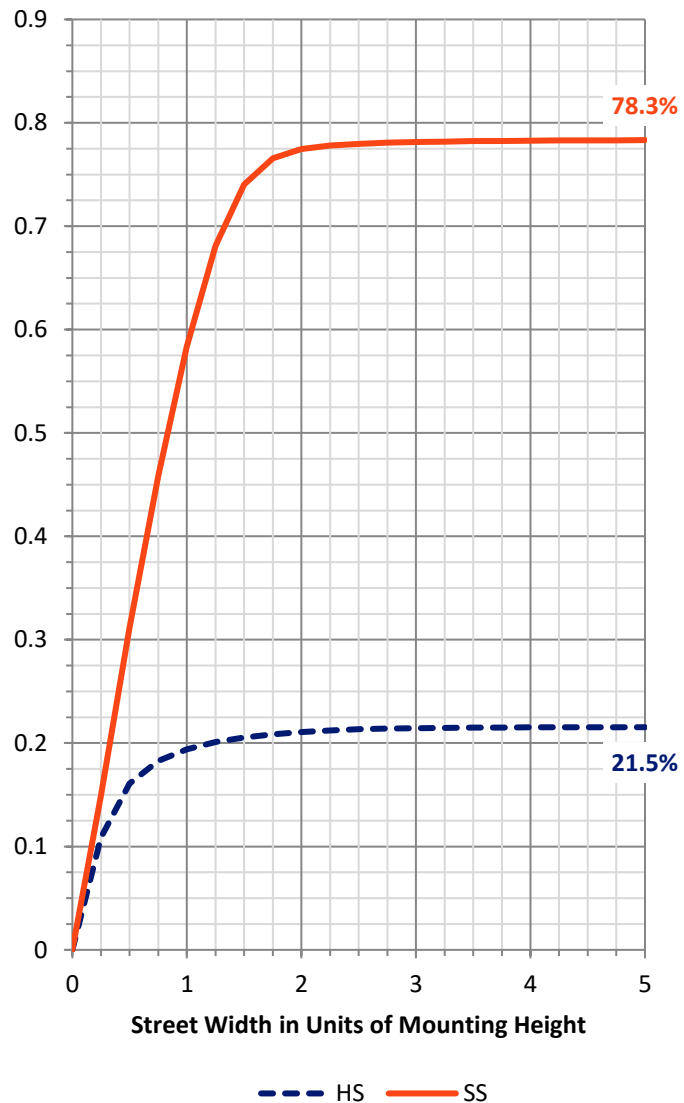
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2720.5   | 0.0    | 2720.5  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 9788.5   | 0.0    | 9788.5  |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 12509.0  | 0.0    | 12509.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 232.7   | 1.9       |
| 10°-20°   | 743.8   | 5.9       |
| 20°-30°   | 1349.1  | 10.8      |
| 30°-40°   | 2119.1  | 16.9      |
| 40°-50°   | 3091.4  | 24.7      |
| 50°-60°   | 3724.6  | 29.8      |
| 60°-70°   | 1090.5  | 8.7       |
| 70°-80°   | 138.3   | 1.1       |
| 80°-90°   | 19.4    | 0.2       |
| 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°    | 12509.0 | 100.0     |
| 0°-180°   | 12509.0 | 100.0     |

**Coefficient of Utilization**



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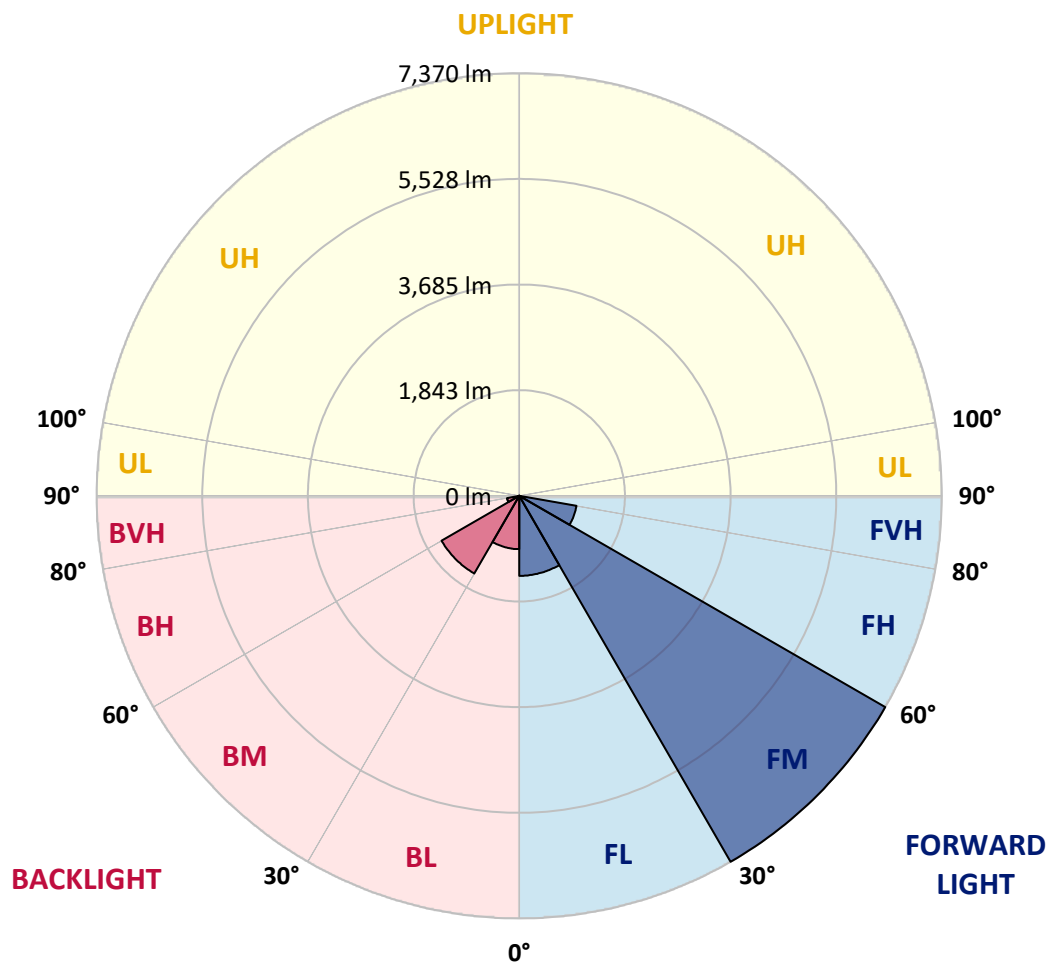
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1395.8 | 11.2      |                         |      |         |
| FM   | (30°-60°)   | 7370.3 | 58.9      |                         |      |         |
| FH   | (60°-80°)   | 1012.7 | 8.1       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 9.7    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 929.8  | 7.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1564.8 | 12.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 216.2  | 1.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.7    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 48°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 |
| 2.5°  | 2432.5 | 2421.1 | 2421.1 | 2402.9 | 2423.4 | 2414.3 | 2421.1 | 2398.3 | 2421.1 | 2386.9 | 2414.3 |
| 5°    | 2443.9 | 2446.2 | 2437.1 | 2448.4 | 2448.4 | 2462.1 | 2439.3 | 2459.8 | 2471.2 | 2446.2 | 2434.8 |
| 7.5°  | 2503.1 | 2507.7 | 2505.4 | 2496.3 | 2514.5 | 2512.2 | 2509.9 | 2494.0 | 2498.6 | 2489.4 | 2475.8 |
| 10°   | 2619.3 | 2617.0 | 2628.4 | 2605.6 | 2591.9 | 2607.9 | 2612.4 | 2587.4 | 2569.2 | 2562.3 | 2519.0 |
| 12.5° | 2787.8 | 2760.5 | 2744.5 | 2721.8 | 2728.6 | 2705.8 | 2746.8 | 2703.5 | 2694.4 | 2653.4 | 2610.2 |
| 15°   | 2924.5 | 2919.9 | 2922.2 | 2885.7 | 2844.7 | 2853.9 | 2853.9 | 2831.1 | 2817.4 | 2767.3 | 2705.8 |
| 17.5° | 3204.6 | 3109.0 | 3129.5 | 3083.9 | 3049.7 | 3047.5 | 3027.0 | 3031.5 | 2995.1 | 2890.3 | 2796.9 |
| 20°   | 3423.3 | 3382.3 | 3350.4 | 3272.9 | 3220.6 | 3236.5 | 3227.4 | 3204.6 | 3193.2 | 3056.6 | 2924.5 |
| 22.5° | 3619.1 | 3632.8 | 3580.4 | 3559.9 | 3487.0 | 3493.9 | 3512.1 | 3491.6 | 3405.0 | 3263.8 | 3068.0 |
| 25°   | 3894.7 | 3878.8 | 3808.2 | 3783.1 | 3714.8 | 3739.9 | 3810.5 | 3794.5 | 3739.9 | 3484.8 | 3179.6 |
| 27.5° | 4220.4 | 4165.8 | 4179.4 | 4065.6 | 3999.5 | 4070.1 | 4154.4 | 4234.1 | 4079.2 | 3744.4 | 3311.7 |
| 30°   | 4450.5 | 4393.5 | 4389.0 | 4384.4 | 4368.5 | 4450.5 | 4548.4 | 4621.3 | 4496.0 | 4004.1 | 3530.3 |
| 32.5° | 4564.4 | 4578.0 | 4616.7 | 4603.1 | 4742.0 | 4910.6 | 5013.0 | 5117.8 | 4960.7 | 4427.7 | 3819.6 |
| 35°   | 4867.3 | 4780.7 | 4867.3 | 4876.4 | 5019.9 | 5377.5 | 5507.3 | 5757.8 | 5719.1 | 5026.7 | 4172.6 |
| 37.5° | 5044.9 | 5038.1 | 5049.5 | 5136.0 | 5275.0 | 5716.8 | 5901.3 | 6094.9 | 6022.0 | 5386.6 | 4612.2 |
| 40°   | 5338.7 | 5357.0 | 5354.7 | 5420.7 | 5573.3 | 5971.9 | 6047.1 | 6204.2 | 6211.1 | 5885.4 | 5259.0 |
| 42.5° | 5810.2 | 5737.3 | 5689.5 | 5757.8 | 5971.9 | 6192.9 | 6343.2 | 6311.3 | 6536.8 | 6491.2 | 6090.4 |
| 45°   | 6233.8 | 6277.1 | 6206.5 | 6320.4 | 6397.8 | 6516.3 | 6511.7 | 6580.0 | 6867.0 | 7083.4 | 6716.7 |
| 47.5° | 6630.2 | 6657.5 | 6691.7 | 6769.1 | 6937.6 | 6955.9 | 6917.1 | 6887.5 | 7283.8 | 7507.0 | 7201.8 |
| 50°   | 6867.0 | 6892.1 | 7051.5 | 7190.4 | 7504.8 | 7545.8 | 7568.5 | 7493.4 | 7762.1 | 7787.2 | 7659.6 |
| 52.5° | 6803.3 | 6830.6 | 7053.8 | 7511.6 | 8012.7 | 8388.5 | 8320.1 | 8192.6 | 8176.7 | 8274.6 | 8083.3 |
| 55°   | 6238.4 | 6213.4 | 6520.8 | 7233.7 | 8172.1 | 9074.0 | 9083.2 | 8948.8 | 8691.4 | 8625.4 | 8019.5 |
| 56°   | 5757.8 | 5659.9 | 6051.6 | 6912.6 | 7967.1 | 9014.8 | 9117.3 | 8973.8 | 8732.4 | 8436.3 | 7625.5 |
| 57.5° | 4717.0 | 4810.3 | 5199.8 | 5912.7 | 7258.8 | 8588.9 | 8648.1 | 8614.0 | 8431.8 | 7935.2 | 6709.9 |
| 60°   | 2601.0 | 2765.0 | 3109.0 | 3981.3 | 5167.9 | 6591.4 | 6639.3 | 6917.1 | 6951.3 | 6076.7 | 4616.7 |
| 62.5° | 1104.6 | 1086.4 | 1444.0 | 2086.3 | 2942.7 | 3979.0 | 4067.8 | 4352.5 | 4404.9 | 3503.0 | 2316.3 |
| 65°   | 448.7  | 473.7  | 653.7  | 1050.0 | 1555.6 | 1813.0 | 1938.3 | 2031.6 | 2204.7 | 1446.3 | 854.1  |
| 67.5° | 296.1  | 293.8  | 384.9  | 599.0  | 838.2  | 808.6  | 808.6  | 854.1  | 790.3  | 589.9  | 369.0  |
| 70°   | 211.8  | 218.7  | 275.6  | 414.5  | 521.6  | 387.2  | 371.3  | 355.3  | 403.1  | 389.5  | 298.4  |
| 72.5° | 138.9  | 148.0  | 184.5  | 248.3  | 271.0  | 211.8  | 211.8  | 255.1  | 332.5  | 314.3  | 243.7  |
| 75°   | 91.1   | 93.4   | 113.9  | 143.5  | 134.4  | 109.3  | 120.7  | 170.8  | 241.4  | 232.3  | 173.1  |
| 77.5° | 61.5   | 63.8   | 77.4   | 93.4   | 75.2   | 61.5   | 66.1   | 86.5   | 118.4  | 118.4  | 91.1   |
| 80°   | 22.8   | 25.1   | 31.9   | 29.6   | 34.2   | 43.3   | 47.8   | 59.2   | 70.6   | 70.6   | 61.5   |
| 82.5° | 0.0    | 2.3    | 6.8    | 15.9   | 25.1   | 34.2   | 38.7   | 45.6   | 52.4   | 59.2   | 56.9   |
| 85°   | 0.0    | 2.3    | 6.8    | 11.4   | 18.2   | 20.5   | 22.8   | 15.9   | 13.7   | 13.7   | 11.4   |
| 87.5° | 0.0    | 0.0    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 4.6    | 2.3    | 2.3    |
| 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°    | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 | 2389.2 |
| 2.5°  | 2389.2 | 2386.9 | 2386.9 | 2380.1 | 2393.8 | 2386.9 | 2391.5 | 2389.2 | 2359.6 | 2382.4 | 2366.4 |
| 5°    | 2414.3 | 2430.2 | 2405.2 | 2400.6 | 2382.4 | 2389.2 | 2389.2 | 2366.4 | 2386.9 | 2384.7 | 2380.1 |
| 7.5°  | 2478.1 | 2450.7 | 2423.4 | 2396.1 | 2391.5 | 2384.7 | 2359.6 | 2350.5 | 2366.4 | 2348.2 | 2375.6 |
| 10°   | 2505.4 | 2509.9 | 2468.9 | 2432.5 | 2398.3 | 2350.5 | 2316.3 | 2295.8 | 2270.8 | 2298.1 | 2314.1 |
| 12.5° | 2630.7 | 2585.1 | 2514.5 | 2457.6 | 2341.4 | 2293.6 | 2259.4 | 2250.3 | 2293.6 | 2302.7 | 2286.7 |
| 15°   | 2673.9 | 2667.1 | 2576.0 | 2448.4 | 2327.7 | 2270.8 | 2277.6 | 2259.4 | 2264.0 | 2241.2 | 2245.7 |
| 17.5° | 2762.8 | 2685.3 | 2578.3 | 2418.8 | 2325.5 | 2311.8 | 2270.8 | 2197.9 | 2156.9 | 2138.7 | 2154.6 |
| 20°   | 2860.7 | 2785.5 | 2630.7 | 2430.2 | 2345.9 | 2309.5 | 2175.1 | 2086.3 | 2002.0 | 1956.5 | 1958.8 |
| 22.5° | 2947.2 | 2853.9 | 2607.9 | 2434.8 | 2364.2 | 2213.8 | 2052.1 | 1876.8 | 1772.0 | 1701.4 | 1703.7 |
| 25°   | 3052.0 | 2919.9 | 2617.0 | 2443.9 | 2316.3 | 2061.2 | 1828.9 | 1658.1 | 1532.8 | 1485.0 | 1501.0 |
| 27.5° | 3111.2 | 2960.9 | 2667.1 | 2464.4 | 2191.1 | 1844.9 | 1594.3 | 1434.9 | 1362.0 | 1339.2 | 1337.0 |
| 30°   | 3288.9 | 3052.0 | 2728.6 | 2423.4 | 1981.5 | 1612.6 | 1380.2 | 1282.3 | 1211.7 | 1191.2 | 1195.8 |
| 32.5° | 3553.1 | 3218.3 | 2808.3 | 2316.3 | 1767.4 | 1405.3 | 1241.3 | 1168.4 | 1102.4 | 1063.6 | 1059.1 |
| 35°   | 3774.0 | 3503.0 | 2892.6 | 2150.1 | 1519.2 | 1245.9 | 1143.4 | 1052.3 | 952.0  | 908.8  | 897.4  |
| 37.5° | 4195.4 | 3824.1 | 2874.4 | 1899.5 | 1282.3 | 1127.4 | 1038.6 | 927.0  | 840.4  | 781.2  | 774.4  |
| 40°   | 4755.7 | 4199.9 | 2785.5 | 1594.3 | 1106.9 | 1022.7 | 927.0  | 819.9  | 712.9  | 662.8  | 658.2  |
| 42.5° | 5436.7 | 4660.0 | 2623.8 | 1284.6 | 931.5  | 917.9  | 831.3  | 708.3  | 612.7  | 576.2  | 578.5  |
| 45°   | 5990.1 | 5054.0 | 2459.8 | 1031.8 | 801.7  | 815.4  | 740.2  | 624.1  | 558.0  | 528.4  | 528.4  |
| 47.5° | 6482.1 | 5320.5 | 2282.2 | 851.8  | 681.0  | 712.9  | 646.8  | 578.5  | 521.6  | 498.8  | 494.2  |
| 50°   | 6955.9 | 5591.6 | 2104.5 | 690.1  | 580.8  | 612.7  | 605.8  | 551.2  | 505.6  | 478.3  | 480.6  |
| 52.5° | 7251.9 | 5634.8 | 1879.0 | 564.9  | 507.9  | 544.4  | 567.1  | 517.0  | 466.9  | 451.0  | 446.4  |
| 55°   | 6889.8 | 5076.8 | 1457.7 | 464.6  | 430.5  | 478.3  | 521.6  | 464.6  | 425.9  | 398.6  | 396.3  |
| 56°   | 6402.4 | 4539.3 | 1218.5 | 428.2  | 407.7  | 460.1  | 505.6  | 444.1  | 400.9  | 384.9  | 373.5  |
| 57.5° | 5420.7 | 3714.8 | 899.7  | 380.4  | 378.1  | 428.2  | 480.6  | 423.6  | 373.5  | 359.9  | 359.9  |
| 60°   | 3380.0 | 2090.9 | 544.4  | 318.9  | 328.0  | 380.4  | 432.7  | 378.1  | 332.5  | 332.5  | 339.4  |
| 62.5° | 1539.7 | 870.1  | 330.3  | 271.0  | 282.4  | 328.0  | 384.9  | 341.6  | 316.6  | 341.6  | 346.2  |
| 65°   | 523.9  | 375.8  | 239.2  | 216.4  | 223.2  | 271.0  | 330.3  | 346.2  | 343.9  | 359.9  | 369.0  |
| 67.5° | 293.8  | 241.4  | 200.4  | 179.9  | 175.4  | 200.4  | 271.0  | 346.2  | 332.5  | 325.7  | 330.3  |
| 70°   | 248.3  | 205.0  | 177.7  | 159.4  | 152.6  | 161.7  | 209.5  | 261.9  | 234.6  | 227.8  | 223.2  |
| 72.5° | 200.4  | 170.8  | 154.9  | 143.5  | 123.0  | 104.8  | 95.7   | 100.2  | 111.6  | 118.4  | 129.8  |
| 75°   | 141.2  | 129.8  | 129.8  | 116.2  | 88.8   | 66.1   | 52.4   | 43.3   | 29.6   | 20.5   | 22.8   |
| 77.5° | 79.7   | 79.7   | 82.0   | 70.6   | 56.9   | 43.3   | 31.9   | 22.8   | 11.4   | 4.6    | 2.3    |
| 80°   | 54.7   | 59.2   | 63.8   | 56.9   | 47.8   | 38.7   | 27.3   | 15.9   | 6.8    | 0.0    | 0.0    |
| 82.5° | 54.7   | 61.5   | 66.1   | 56.9   | 47.8   | 36.4   | 27.3   | 15.9   | 6.8    | 2.3    | 0.0    |
| 85°   | 11.4   | 13.7   | 15.9   | 18.2   | 27.3   | 27.3   | 20.5   | 13.7   | 6.8    | 2.3    | 0.0    |
| 87.5° | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 2.3    | 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)