

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: P528309

Luminaire Tested: **GLAN-SA3B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3B-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7288 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

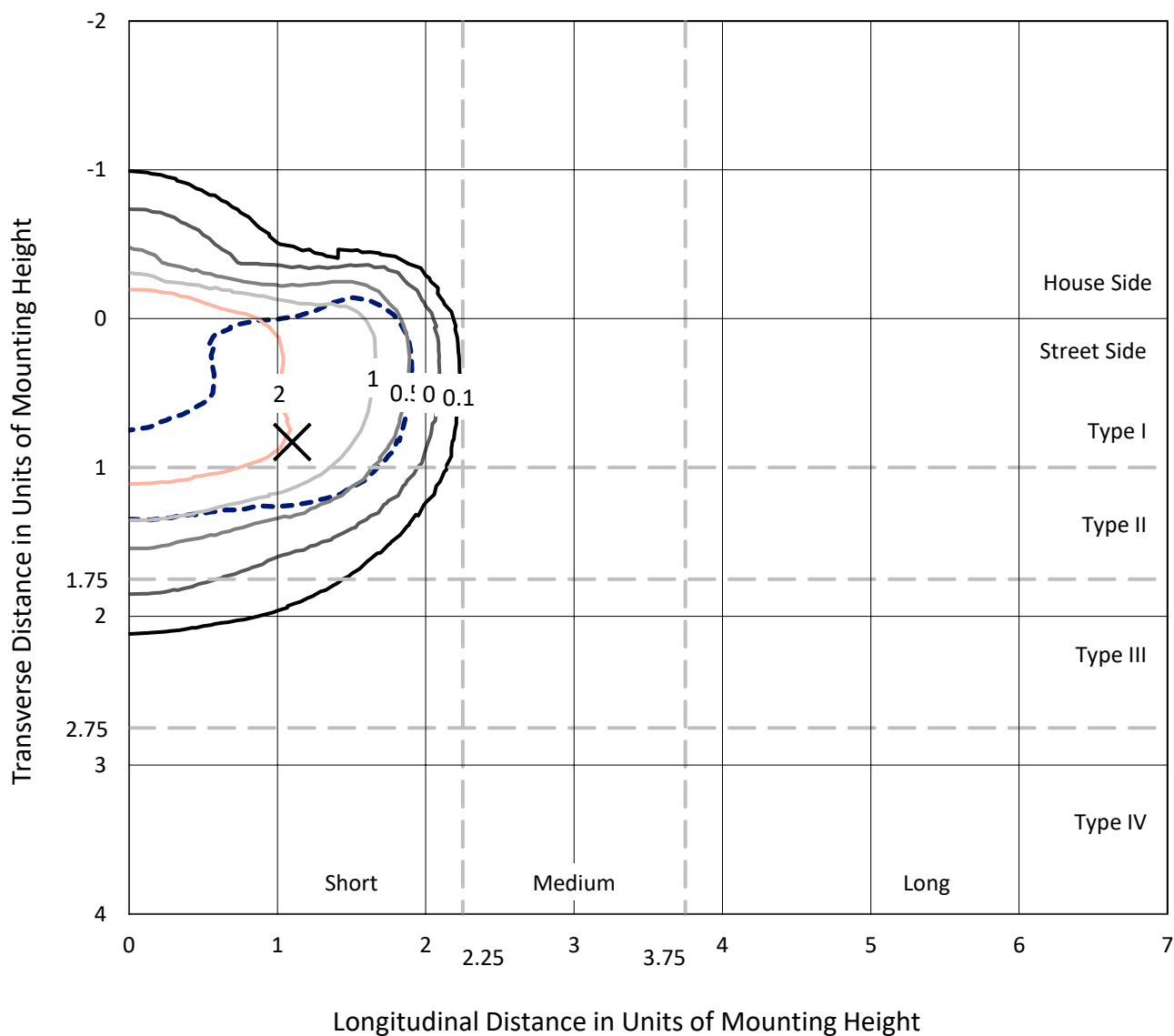
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

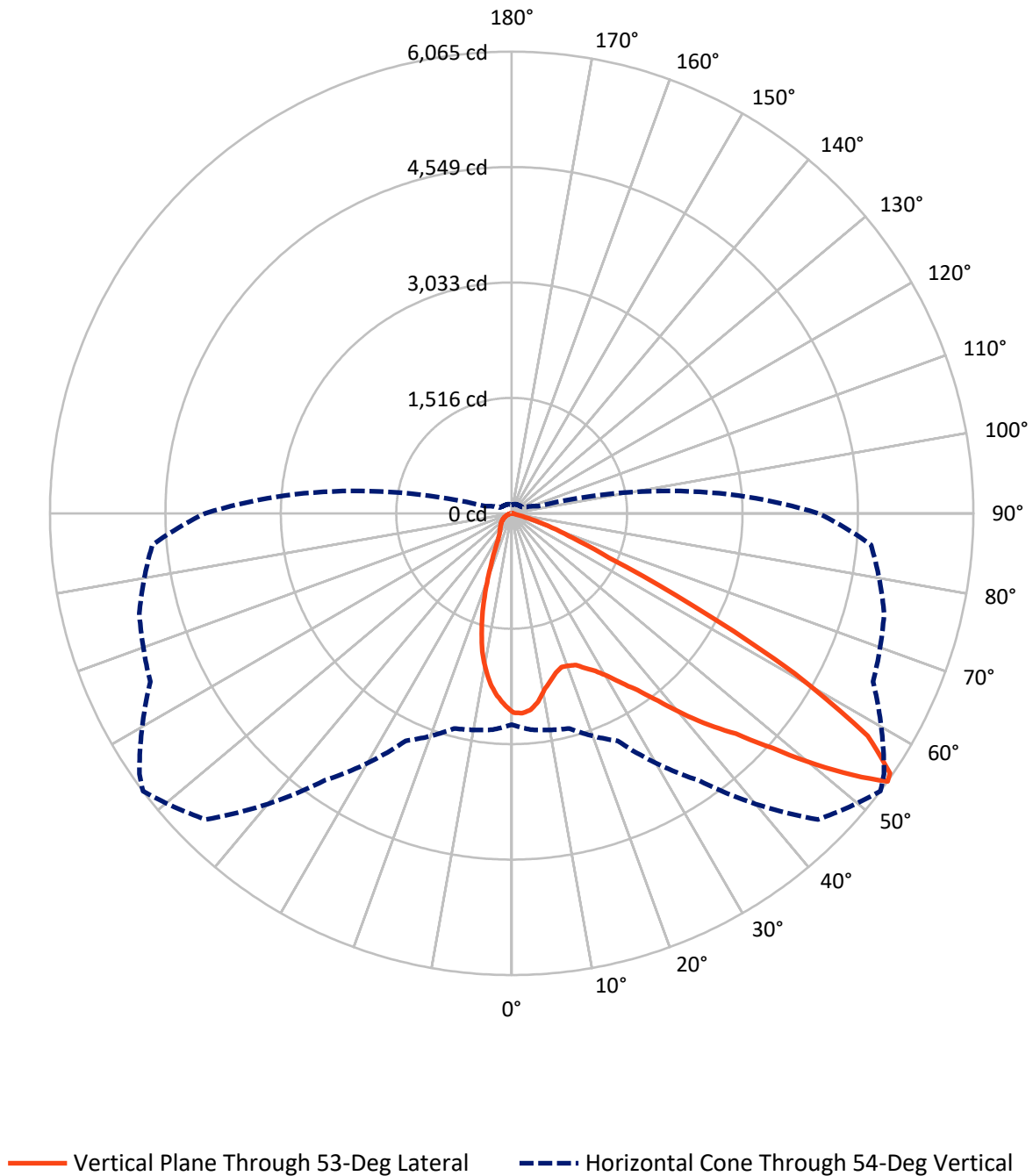
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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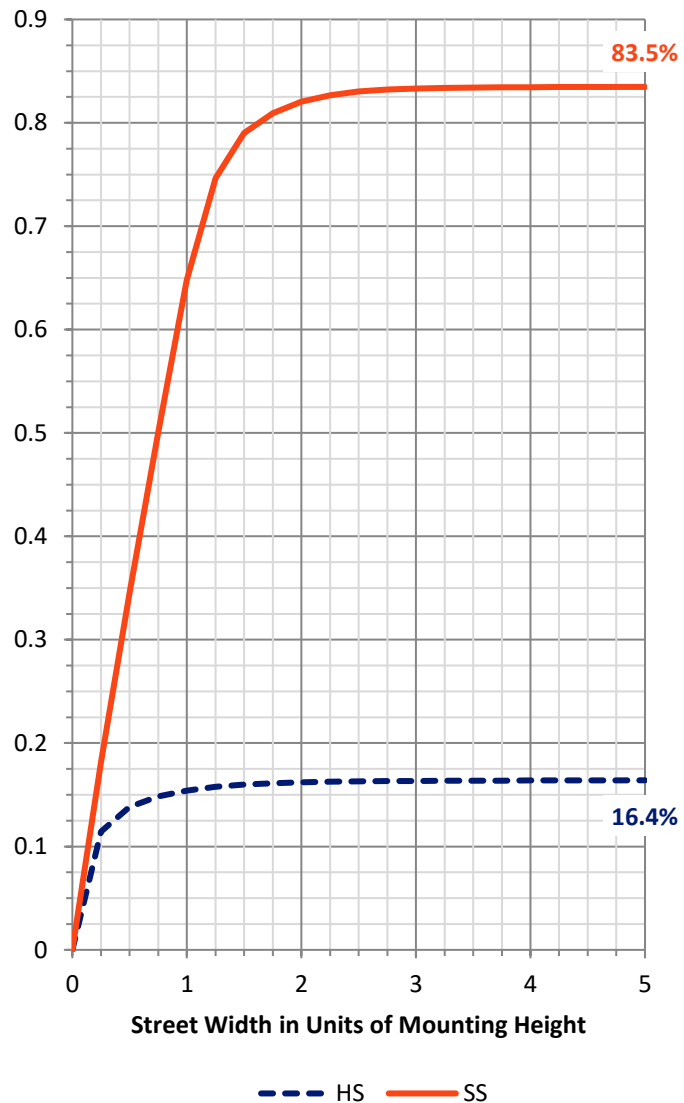
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1205.8   | 0.0    | 1205.8 |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 6082.2   | 0.0    | 6082.2 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 7288.0   | 0.0    | 7288.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 224.6  | 3.1       |
| 10°-20°   | 514.9  | 7.1       |
| 20°-30°   | 731.8  | 10.0      |
| 30°-40°   | 1129.4 | 15.5      |
| 40°-50°   | 1770.8 | 24.3      |
| 50°-60°   | 2057.0 | 28.2      |
| 60°-70°   | 777.3  | 10.7      |
| 70°-80°   | 73.9   | 1.0       |
| 80°-90°   | 8.3    | 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°    | 7288.0 | 100.0     |
| 0°-180°   | 7288.0 | 100.0     |

**Coefficient of Utilization**



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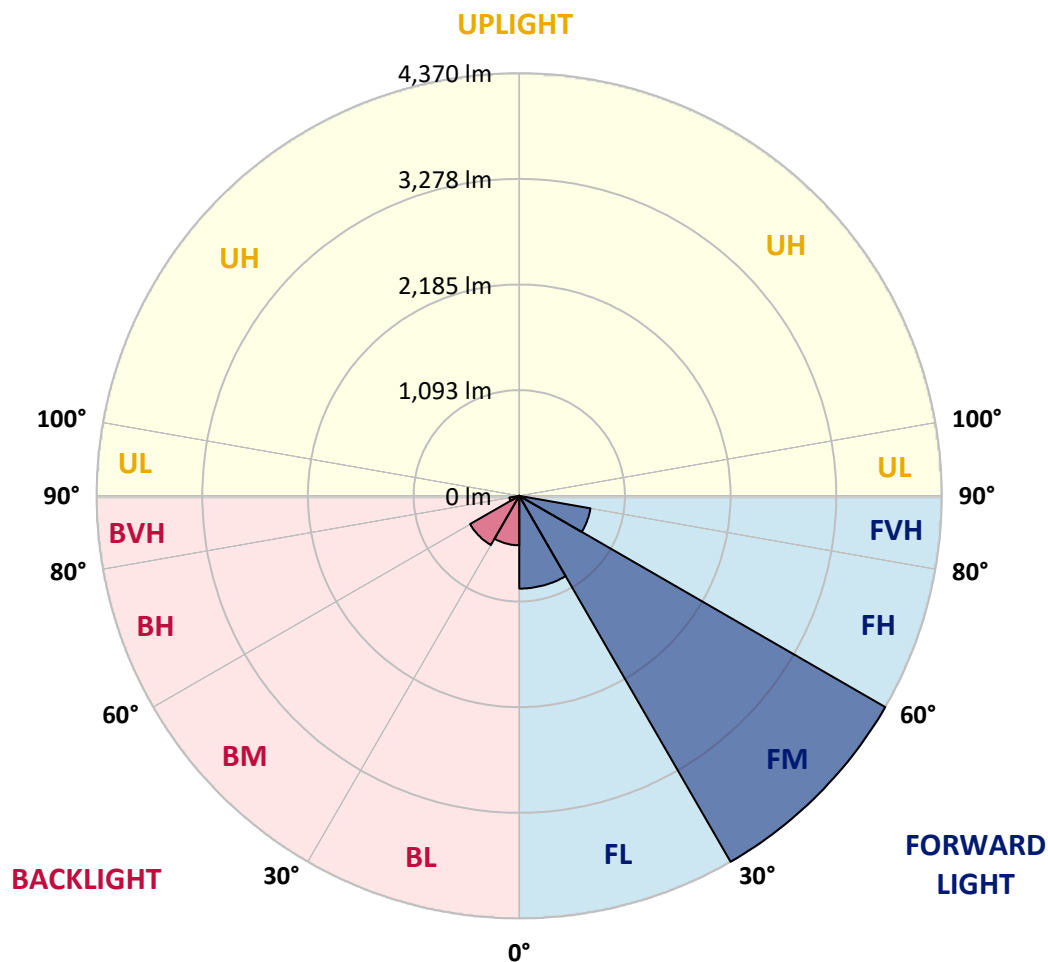
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 959.6  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 4370.4 | 60.0      |                         |      |         |
| FH   | (60°-80°)   | 747.9  | 10.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 4.3    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 511.7  | 7.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 586.8  | 8.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 103.3  | 1.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 4.0    | 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°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 |
| 2.5°  | 2604.1 | 2581.1 | 2604.1 | 2606.9 | 2623.2 | 2638.1 | 2628.6 | 2650.3 | 2638.1 | 2624.5 | 2620.4 |
| 5°    | 2393.7 | 2424.9 | 2426.3 | 2475.2 | 2464.3 | 2553.9 | 2593.3 | 2582.4 | 2649.0 | 2644.9 | 2635.4 |
| 7.5°  | 2205.0 | 2192.8 | 2209.0 | 2266.1 | 2338.0 | 2441.2 | 2498.2 | 2496.9 | 2591.9 | 2659.8 | 2653.0 |
| 10°   | 2029.8 | 2028.5 | 2062.4 | 2107.2 | 2168.3 | 2276.9 | 2355.7 | 2395.1 | 2543.1 | 2646.2 | 2661.2 |
| 12.5° | 1911.7 | 1906.3 | 1942.9 | 1979.6 | 2076.0 | 2160.2 | 2260.6 | 2279.6 | 2449.4 | 2598.7 | 2623.2 |
| 15°   | 1834.3 | 1846.5 | 1849.2 | 1919.8 | 1980.9 | 2092.3 | 2171.0 | 2210.4 | 2405.9 | 2560.7 | 2654.4 |
| 17.5° | 1820.7 | 1837.0 | 1838.4 | 1896.8 | 1961.9 | 2055.6 | 2124.9 | 2177.8 | 2369.3 | 2579.7 | 2655.7 |
| 20°   | 1847.9 | 1838.4 | 1846.5 | 1883.2 | 1947.0 | 2036.6 | 2137.1 | 2154.7 | 2357.0 | 2589.2 | 2670.7 |
| 22.5° | 1925.3 | 1922.6 | 1902.2 | 1932.1 | 1976.9 | 2070.6 | 2165.6 | 2192.8 | 2392.3 | 2638.1 | 2682.9 |
| 25°   | 2010.8 | 2025.8 | 2006.7 | 2002.7 | 2033.9 | 2126.2 | 2252.5 | 2287.8 | 2510.5 | 2726.3 | 2720.9 |
| 27.5° | 2171.0 | 2156.1 | 2156.1 | 2137.1 | 2128.9 | 2173.7 | 2346.2 | 2404.6 | 2642.2 | 2840.4 | 2764.4 |
| 30°   | 2324.5 | 2340.7 | 2328.5 | 2335.3 | 2281.0 | 2276.9 | 2479.2 | 2551.2 | 2875.7 | 3014.2 | 2856.7 |
| 32.5° | 2567.5 | 2545.8 | 2566.1 | 2548.5 | 2476.5 | 2403.2 | 2659.8 | 2734.5 | 3158.1 | 3213.8 | 2995.2 |
| 35°   | 2769.8 | 2760.3 | 2847.2 | 2844.5 | 2727.7 | 2655.7 | 2851.3 | 2962.6 | 3355.0 | 3452.7 | 3158.1 |
| 37.5° | 3057.6 | 3040.0 | 3139.1 | 3186.6 | 3082.1 | 2974.8 | 3125.5 | 3254.5 | 3538.3 | 3644.2 | 3325.1 |
| 40°   | 3353.6 | 3398.4 | 3531.5 | 3610.2 | 3498.9 | 3356.3 | 3460.9 | 3500.3 | 3660.5 | 3769.1 | 3439.2 |
| 42.5° | 3728.4 | 3793.5 | 3929.3 | 3997.2 | 3987.7 | 3832.9 | 3801.7 | 3800.3 | 3748.7 | 3733.8 | 3523.3 |
| 45°   | 4088.2 | 4063.7 | 4272.8 | 4420.8 | 4540.3 | 4495.5 | 4130.3 | 4089.5 | 3888.6 | 3786.7 | 3545.1 |
| 47.5° | 4245.7 | 4237.5 | 4380.1 | 4643.5 | 5050.8 | 5106.5 | 4608.2 | 4450.7 | 4124.8 | 4009.4 | 3663.2 |
| 50°   | 4042.0 | 4084.1 | 4225.3 | 4517.2 | 5141.8 | 5566.7 | 5194.7 | 4982.9 | 4400.4 | 4281.0 | 3942.9 |
| 52.5° | 3376.7 | 3405.2 | 3539.6 | 3910.3 | 4832.2 | 5838.3 | 5756.8 | 5634.6 | 4906.9 | 4708.6 | 4430.3 |
| 54°   | 2776.6 | 2852.6 | 2925.9 | 3298.0 | 4281.0 | 5687.6 | 6065.0 | 5971.3 | 5236.8 | 5064.4 | 4737.2 |
| 55°   | 2418.1 | 2462.9 | 2515.9 | 2886.6 | 3899.4 | 5432.3 | 6029.7 | 6037.9 | 5458.1 | 5175.7 | 4943.5 |
| 57.5° | 1766.4 | 1797.7 | 1743.3 | 1907.6 | 2677.5 | 4411.3 | 5515.1 | 5735.1 | 5756.8 | 5342.7 | 5069.8 |
| 60°   | 1349.6 | 1363.2 | 1302.1 | 1327.9 | 1664.6 | 3027.8 | 4266.0 | 4530.8 | 5193.4 | 4669.3 | 4294.5 |
| 62.5° | 1046.8 | 1049.5 | 1048.2 | 1093.0 | 1147.3 | 1781.4 | 2668.0 | 2902.9 | 3580.4 | 3315.6 | 2916.4 |
| 65°   | 771.2  | 759.0  | 780.7  | 916.5  | 978.9  | 1120.1 | 1405.3 | 1576.3 | 1945.6 | 1642.9 | 1174.4 |
| 67.5° | 499.6  | 503.7  | 525.4  | 681.6  | 839.1  | 859.5  | 864.9  | 851.3  | 852.7  | 469.8  | 294.6  |
| 70°   | 300.1  | 306.8  | 300.1  | 385.6  | 600.1  | 616.4  | 563.5  | 549.9  | 429.0  | 111.3  | 110.0  |
| 72.5° | 177.9  | 168.4  | 150.7  | 165.6  | 249.8  | 298.7  | 268.8  | 267.5  | 168.4  | 65.2   | 65.2   |
| 75°   | 74.7   | 67.9   | 55.7   | 50.2   | 66.5   | 63.8   | 63.8   | 57.0   | 44.8   | 43.4   | 40.7   |
| 77.5° | 14.9   | 14.9   | 10.9   | 12.2   | 16.3   | 19.0   | 23.1   | 23.1   | 27.2   | 27.2   | 25.8   |
| 80°   | 0.0    | 1.4    | 4.1    | 8.1    | 12.2   | 17.7   | 20.4   | 20.4   | 23.1   | 23.1   | 19.0   |
| 82.5° | 0.0    | 1.4    | 4.1    | 8.1    | 10.9   | 16.3   | 20.4   | 20.4   | 23.1   | 24.4   | 20.4   |
| 85°   | 0.0    | 1.4    | 4.1    | 6.8    | 10.9   | 13.6   | 13.6   | 12.2   | 9.5    | 8.1    | 5.4    |
| 87.5° | 0.0    | 0.0    | 1.4    | 2.7    | 1.4    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 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°    | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 | 2617.7 |
| 2.5°  | 2629.9 | 2628.6 | 2596.0 | 2543.1 | 2530.8 | 2486.0 | 2480.6 | 2453.4 | 2468.4 | 2418.1 | 2412.7 |
| 5°    | 2608.2 | 2591.9 | 2552.6 | 2518.6 | 2419.5 | 2348.9 | 2293.2 | 2225.3 | 2186.0 | 2192.8 | 2167.0 |
| 7.5°  | 2639.5 | 2597.4 | 2528.1 | 2410.0 | 2289.2 | 2165.6 | 2099.1 | 1960.6 | 1910.3 | 1835.7 | 1824.8 |
| 10°   | 2606.9 | 2575.6 | 2468.4 | 2272.9 | 2105.9 | 1928.0 | 1771.9 | 1618.4 | 1501.7 | 1451.4 | 1440.6 |
| 12.5° | 2604.1 | 2549.8 | 2370.6 | 2153.4 | 1911.7 | 1656.4 | 1429.7 | 1238.3 | 1122.9 | 1057.7 | 1042.7 |
| 15°   | 2562.1 | 2496.9 | 2260.6 | 1968.7 | 1634.7 | 1317.0 | 1069.9 | 885.2  | 797.0  | 759.0  | 769.8  |
| 17.5° | 2566.1 | 2468.4 | 2150.7 | 1773.2 | 1361.8 | 966.7  | 730.5  | 635.4  | 612.3  | 621.8  | 621.8  |
| 20°   | 2562.1 | 2404.6 | 2017.6 | 1547.8 | 1042.7 | 670.7  | 536.3  | 502.4  | 517.3  | 547.2  | 540.4  |
| 22.5° | 2540.3 | 2374.7 | 1895.4 | 1310.2 | 767.1  | 496.9  | 430.4  | 431.8  | 454.8  | 491.5  | 499.6  |
| 25°   | 2556.6 | 2308.2 | 1740.6 | 1069.9 | 559.4  | 396.5  | 373.4  | 382.9  | 407.3  | 434.5  | 439.9  |
| 27.5° | 2544.4 | 2260.6 | 1579.1 | 830.9  | 408.7  | 340.8  | 339.4  | 350.3  | 361.2  | 381.5  | 381.5  |
| 30°   | 2558.0 | 2217.2 | 1420.2 | 617.8  | 336.7  | 312.3  | 306.8  | 315.0  | 325.9  | 329.9  | 328.6  |
| 32.5° | 2608.2 | 2184.6 | 1236.9 | 461.6  | 297.3  | 285.1  | 285.1  | 285.1  | 283.8  | 289.2  | 290.6  |
| 35°   | 2718.2 | 2190.0 | 1075.3 | 357.1  | 271.5  | 262.0  | 258.0  | 252.5  | 249.8  | 252.5  | 253.9  |
| 37.5° | 2837.7 | 2187.3 | 908.3  | 304.1  | 252.5  | 244.4  | 234.9  | 226.7  | 225.4  | 228.1  | 224.0  |
| 40°   | 2890.6 | 2213.1 | 753.5  | 272.9  | 234.9  | 225.4  | 210.5  | 203.7  | 205.0  | 207.7  | 205.0  |
| 42.5° | 2962.6 | 2221.3 | 653.1  | 248.5  | 218.6  | 203.7  | 194.2  | 186.0  | 184.7  | 188.7  | 187.4  |
| 45°   | 2961.2 | 2175.1 | 547.2  | 234.9  | 203.7  | 187.4  | 175.1  | 168.4  | 168.4  | 171.1  | 172.4  |
| 47.5° | 3048.1 | 2168.3 | 469.8  | 222.7  | 192.8  | 176.5  | 161.6  | 156.1  | 154.8  | 154.8  | 152.1  |
| 50°   | 3250.4 | 2263.4 | 410.0  | 209.1  | 179.2  | 164.3  | 152.1  | 145.3  | 139.8  | 137.1  | 135.8  |
| 52.5° | 3645.5 | 2559.3 | 363.9  | 192.8  | 164.3  | 152.1  | 141.2  | 135.8  | 129.0  | 122.2  | 120.8  |
| 54°   | 4028.4 | 2864.8 | 361.2  | 179.2  | 152.1  | 143.9  | 134.4  | 131.7  | 123.6  | 114.1  | 111.3  |
| 55°   | 4200.9 | 3042.7 | 370.7  | 168.4  | 143.9  | 138.5  | 130.3  | 127.6  | 119.5  | 108.6  | 107.3  |
| 57.5° | 4343.4 | 3111.9 | 365.2  | 139.8  | 130.3  | 129.0  | 122.2  | 118.1  | 108.6  | 93.7   | 91.0   |
| 60°   | 3496.2 | 2353.0 | 262.0  | 123.6  | 119.5  | 116.8  | 111.3  | 108.6  | 96.4   | 80.1   | 78.7   |
| 62.5° | 2209.0 | 1353.7 | 167.0  | 108.6  | 104.5  | 100.5  | 93.7   | 91.0   | 80.1   | 63.8   | 59.7   |
| 65°   | 940.9  | 560.7  | 112.7  | 96.4   | 89.6   | 82.8   | 77.4   | 73.3   | 63.8   | 47.5   | 46.2   |
| 67.5° | 244.4  | 199.6  | 93.7   | 84.2   | 74.7   | 65.2   | 61.1   | 54.3   | 43.4   | 32.6   | 31.2   |
| 70°   | 110.0  | 100.5  | 78.7   | 70.6   | 59.7   | 50.2   | 44.8   | 38.0   | 28.5   | 21.7   | 20.4   |
| 72.5° | 65.2   | 63.8   | 59.7   | 53.0   | 44.8   | 38.0   | 32.6   | 25.8   | 19.0   | 12.2   | 12.2   |
| 75°   | 40.7   | 39.4   | 40.7   | 36.7   | 31.2   | 28.5   | 24.4   | 17.7   | 10.9   | 5.4    | 5.4    |
| 77.5° | 24.4   | 24.4   | 24.4   | 23.1   | 21.7   | 21.7   | 17.7   | 10.9   | 5.4    | 1.4    | 1.4    |
| 80°   | 19.0   | 19.0   | 20.4   | 19.0   | 19.0   | 19.0   | 14.9   | 8.1    | 2.7    | 0.0    | 0.0    |
| 82.5° | 19.0   | 20.4   | 23.1   | 21.7   | 19.0   | 16.3   | 13.6   | 8.1    | 2.7    | 0.0    | 0.0    |
| 85°   | 5.4    | 4.1    | 6.8    | 9.5    | 13.6   | 12.2   | 9.5    | 6.8    | 2.7    | 0.0    | 0.0    |
| 87.5° | 2.7    | 2.7    | 2.7    | 2.7    | 1.4    | 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)