

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: P322680

Luminaire Tested: **GAN-SA6B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17843 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

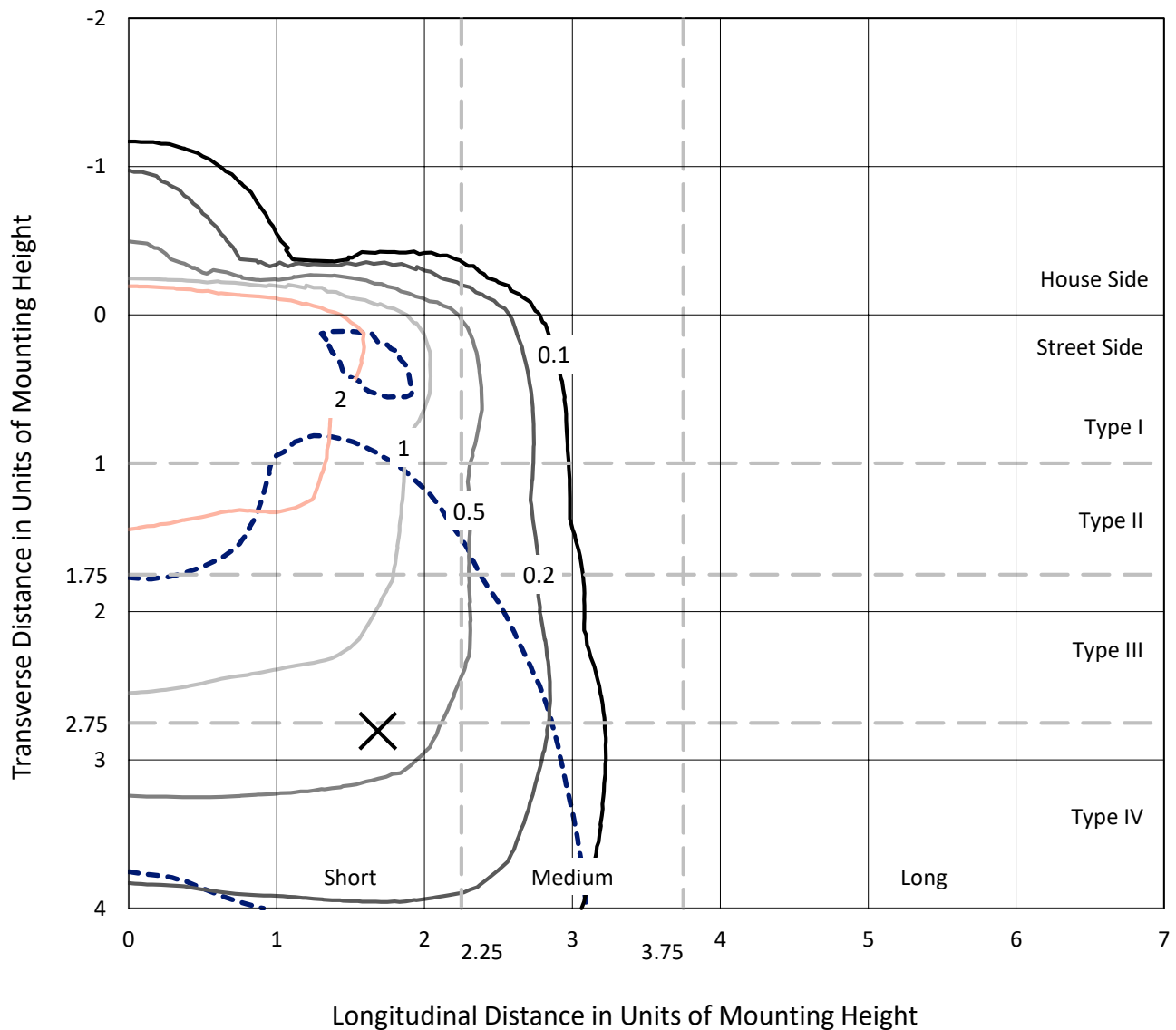
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

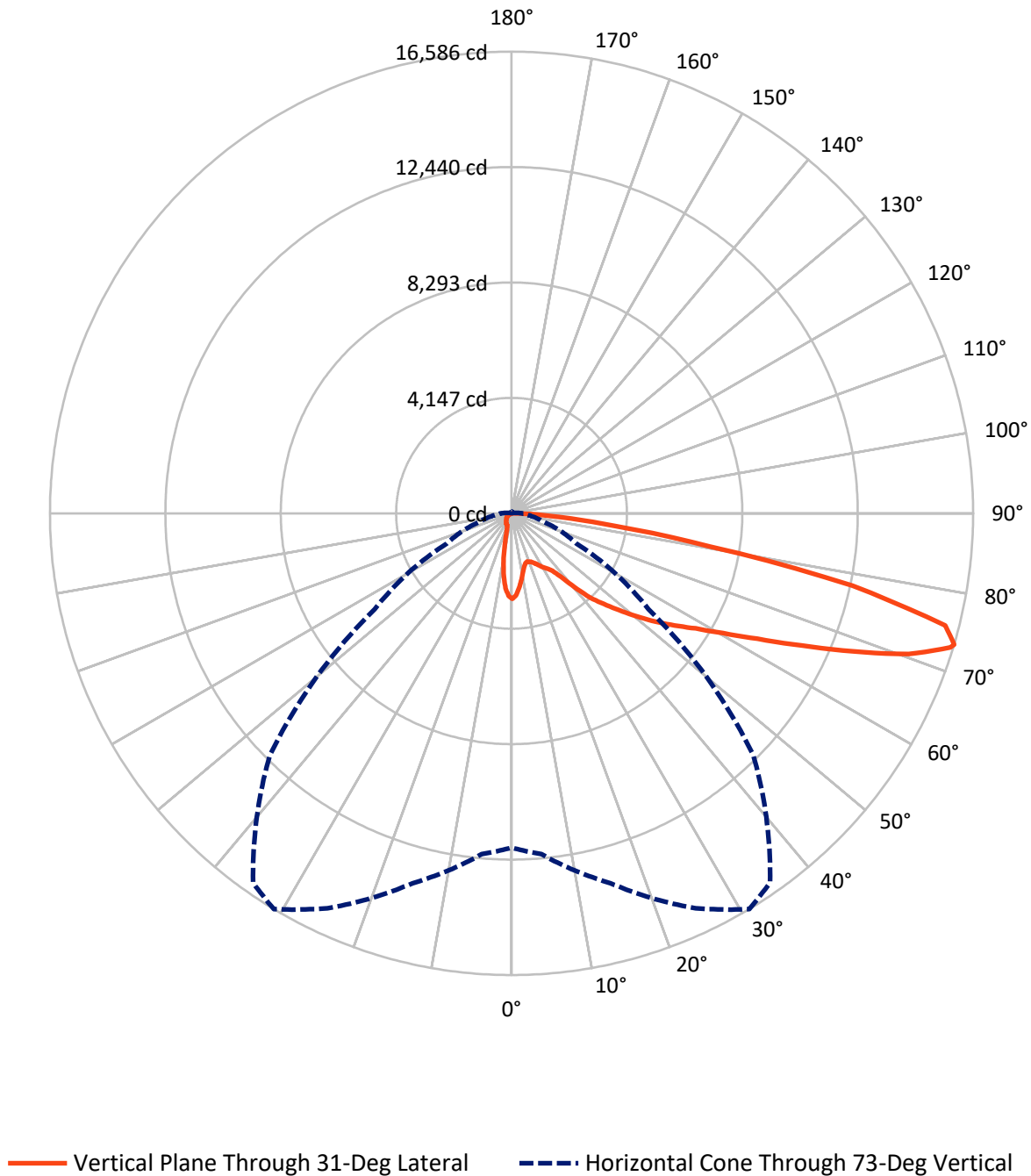
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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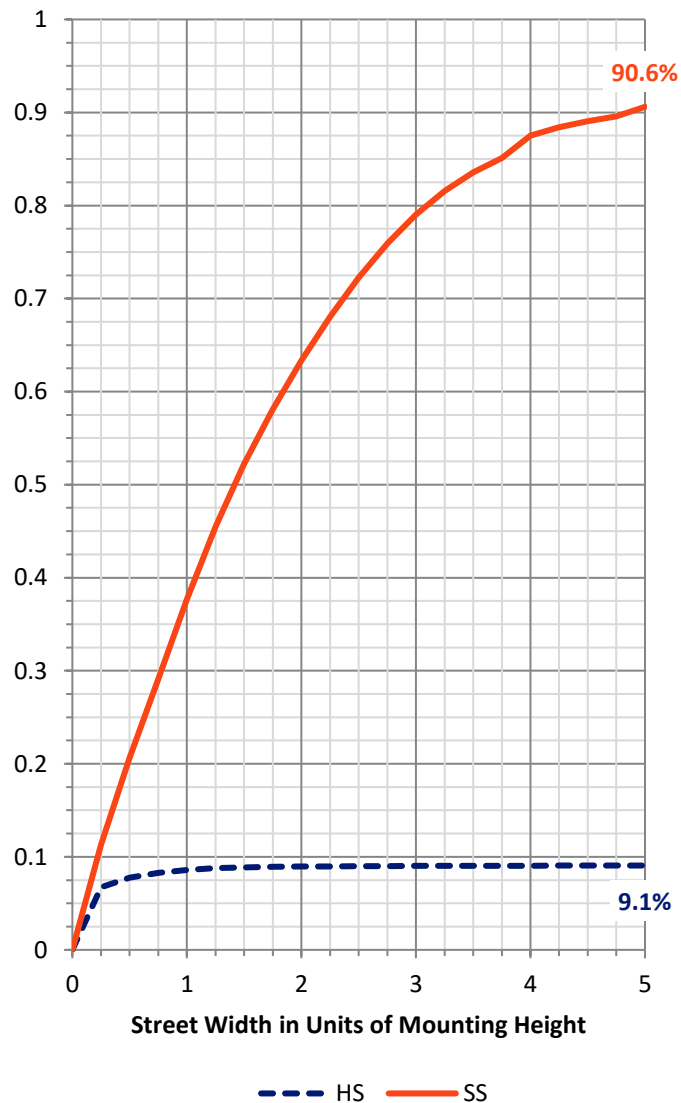
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1626.5   | 0.0    | 1626.5  |
|                    | % Fixture | 9.1      | 0.0    | 9.1     |
| <b>Street Side</b> | Lumens    | 16216.5  | 0.0    | 16216.5 |
|                    | % Fixture | 90.9     | 0.0    | 90.9    |
| <b>Total</b>       | Lumens    | 17843.0  | 0.0    | 17843.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 254.5   | 1.4       |
| 10°-20°   | 552.7   | 3.1       |
| 20°-30°   | 828.1   | 4.6       |
| 30°-40°   | 1317.5  | 7.4       |
| 40°-50°   | 2352.6  | 13.2      |
| 50°-60°   | 3650.6  | 20.5      |
| 60°-70°   | 4853.0  | 27.2      |
| 70°-80°   | 3650.4  | 20.5      |
| 80°-90°   | 383.6   | 2.1       |
| 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°    | 17843.0 | 100.0     |
| 0°-180°   | 17843.0 | 100.0     |

**Coefficient of Utilization**



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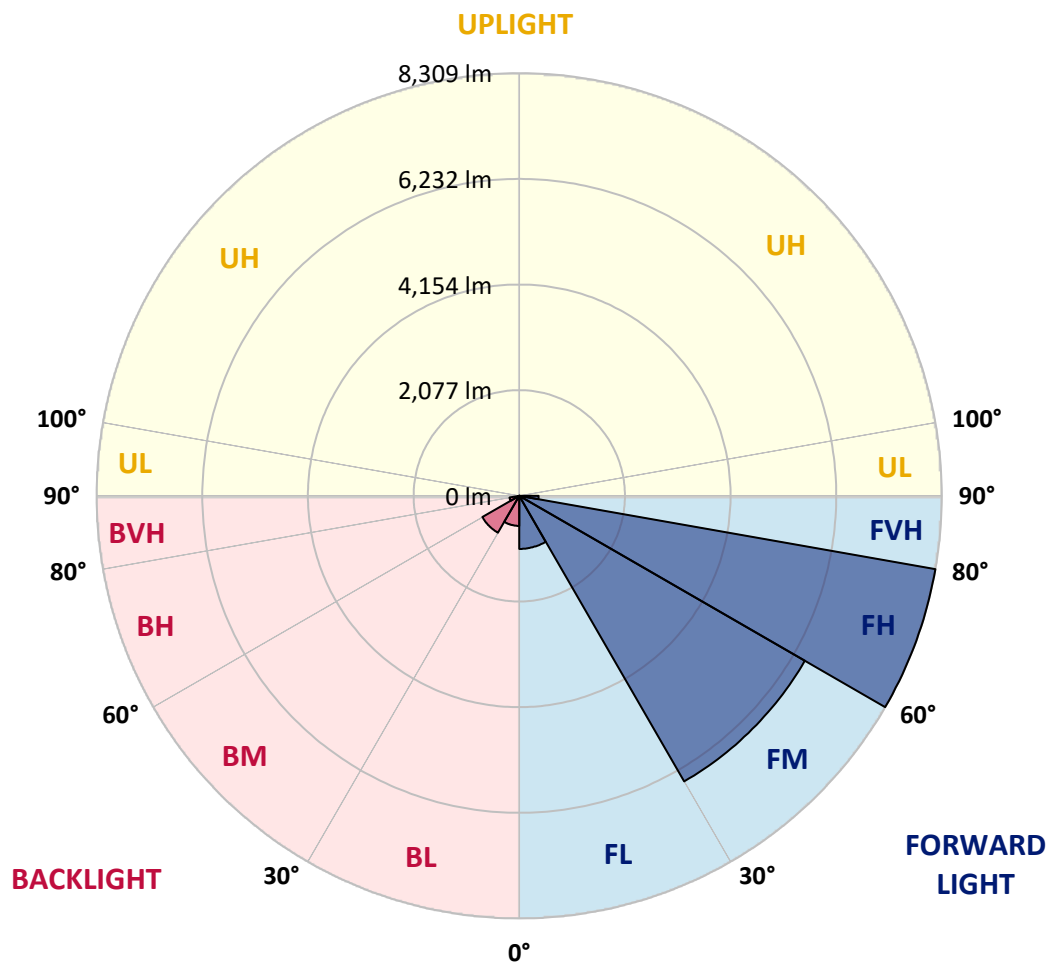
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1043.8 | 5.9       |                         |      |          |
| FM   | (30°-60°)   | 6483.5 | 36.3      |                         |      |          |
| FH   | (60°-80°)   | 8308.8 | 46.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 380.4  | 2.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 591.4  | 3.3       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 837.2  | 4.7       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 194.6  | 1.1       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 3.2    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 31°     | 35°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3069.9  | 3069.9  | 3069.9  | 3069.9  | 3069.9  | 3069.9  | 3069.9  | 3069.9 | 3069.9 | 3069.9 | 3069.9 |
| 2.5°  | 2909.3  | 2921.5  | 2934.6  | 2937.2  | 2959.0  | 2959.9  | 2991.3  | 3014.9 | 3038.5 | 3061.2 | 3069.1 |
| 5°    | 2610.7  | 2630.7  | 2654.3  | 2677.9  | 2724.2  | 2742.5  | 2819.3  | 2897.9 | 2973.0 | 3044.6 | 3079.5 |
| 7.5°  | 2292.0  | 2314.7  | 2347.8  | 2406.3  | 2457.9  | 2493.7  | 2615.0  | 2754.7 | 2894.4 | 3026.3 | 3102.2 |
| 10°   | 2001.2  | 2022.2  | 2057.1  | 2119.1  | 2198.5  | 2247.4  | 2410.7  | 2604.5 | 2809.7 | 3009.7 | 3136.3 |
| 12.5° | 1816.1  | 1827.5  | 1846.7  | 1913.0  | 1984.6  | 2039.6  | 2231.7  | 2471.8 | 2739.9 | 3008.8 | 3191.3 |
| 15°   | 1782.1  | 1785.6  | 1769.8  | 1799.5  | 1855.4  | 1908.7  | 2103.4  | 2364.4 | 2686.6 | 3022.8 | 3262.9 |
| 17.5° | 1836.2  | 1834.4  | 1782.1  | 1778.6  | 1823.1  | 1866.8  | 2040.5  | 2290.2 | 2649.1 | 3055.1 | 3355.4 |
| 20°   | 1918.3  | 1912.2  | 1821.3  | 1804.8  | 1851.9  | 1892.9  | 2036.1  | 2262.3 | 2635.1 | 3109.2 | 3468.1 |
| 22.5° | 2027.4  | 2016.9  | 1874.6  | 1857.1  | 1907.8  | 1950.6  | 2090.3  | 2289.3 | 2647.3 | 3181.7 | 3599.0 |
| 25°   | 2162.7  | 2147.0  | 1966.3  | 1947.1  | 1998.6  | 2041.4  | 2187.2  | 2367.1 | 2684.0 | 3269.9 | 3764.9 |
| 27.5° | 2315.5  | 2292.8  | 2113.0  | 2063.2  | 2121.7  | 2166.2  | 2316.4  | 2485.8 | 2741.6 | 3363.3 | 3968.4 |
| 30°   | 2459.6  | 2429.9  | 2267.5  | 2185.4  | 2257.0  | 2306.8  | 2456.1  | 2627.2 | 2834.2 | 3507.4 | 4246.9 |
| 32.5° | 2604.5  | 2571.4  | 2405.5  | 2307.7  | 2372.3  | 2426.4  | 2600.2  | 2822.0 | 3007.9 | 3727.4 | 4617.1 |
| 35°   | 2938.1  | 2903.2  | 2699.7  | 2538.2  | 2537.3  | 2567.9  | 2801.9  | 3088.3 | 3237.6 | 4033.9 | 5058.9 |
| 37.5° | 3499.5  | 3479.4  | 3285.6  | 2979.1  | 2897.0  | 2863.0  | 3076.9  | 3406.1 | 3567.6 | 4455.6 | 5557.5 |
| 40°   | 4114.2  | 4096.7  | 3879.3  | 3601.7  | 3476.8  | 3393.0  | 3471.6  | 3848.8 | 4033.9 | 4970.7 | 6066.5 |
| 42.5° | 4808.3  | 4725.4  | 4337.7  | 4254.8  | 4143.0  | 4079.3  | 4008.5  | 4394.5 | 4606.6 | 5531.3 | 6571.2 |
| 45°   | 5438.7  | 5299.0  | 4796.1  | 4670.4  | 4645.1  | 4660.8  | 4700.1  | 5127.9 | 5251.0 | 6197.5 | 7074.1 |
| 47.5° | 5814.2  | 5704.2  | 5318.2  | 5197.7  | 5190.8  | 5294.7  | 5591.5  | 5956.5 | 5892.8 | 6778.1 | 7516.8 |
| 50°   | 6171.3  | 6071.7  | 5751.3  | 5781.0  | 5813.3  | 5954.7  | 6603.5  | 6808.7 | 6478.6 | 7304.6 | 7922.8 |
| 52.5° | 6460.3  | 6308.4  | 6140.7  | 6307.5  | 6466.4  | 6694.3  | 7647.7  | 7573.5 | 6894.2 | 7723.7 | 8270.3 |
| 55°   | 6627.1  | 6558.1  | 6639.3  | 6806.9  | 7105.5  | 7475.7  | 8633.5  | 8210.0 | 7198.1 | 8106.1 | 8501.7 |
| 57.5° | 7238.2  | 7102.9  | 7264.4  | 7409.4  | 7798.8  | 8316.6  | 9477.8  | 8684.1 | 7417.2 | 8342.8 | 8554.9 |
| 60°   | 7977.8  | 7868.6  | 7963.8  | 8204.8  | 8730.4  | 9339.0  | 10267.1 | 9070.9 | 7531.6 | 8494.7 | 8417.0 |
| 62.5° | 9154.8  | 9010.7  | 8951.3  | 9221.1  | 9917.9  | 10582.3 | 10866.1 | 9339.0 | 7506.3 | 8427.4 | 7943.7 |
| 65°   | 10731.6 | 10582.3 | 10316.9 | 10561.4 | 11447.6 | 11916.5 | 11535.8 | 9395.8 | 7331.7 | 7883.5 | 6747.5 |
| 67.5° | 12346.9 | 12238.7 | 12011.6 | 12423.8 | 13223.6 | 13374.6 | 12243.9 | 9257.8 | 6769.4 | 6392.2 | 4767.3 |
| 70°   | 13413.9 | 13367.6 | 13515.2 | 14426.7 | 15140.1 | 15096.4 | 12893.5 | 8516.5 | 5276.3 | 3930.8 | 2358.3 |
| 72.5° | 12644.7 | 12866.4 | 13956.1 | 15608.9 | 16480.3 | 16124.1 | 12560.0 | 6539.7 | 3015.8 | 1512.3 | 681.9  |
| 73°   | 12007.3 | 12291.0 | 13757.9 | 15653.5 | 16586.0 | 16195.7 | 12279.7 | 6002.8 | 2570.5 | 1193.6 | 516.9  |
| 75°   | 8353.2  | 8701.6  | 11390.0 | 14578.6 | 16091.8 | 15430.8 | 10235.7 | 3674.1 | 1190.9 | 529.1  | 208.7  |
| 77.5° | 4055.7  | 4313.3  | 6271.7  | 10533.4 | 12514.6 | 12056.2 | 6372.1  | 1369.1 | 537.8  | 330.9  | 96.0   |
| 80°   | 1514.0  | 1683.4  | 2722.4  | 5361.0  | 7232.1  | 7421.6  | 2802.7  | 517.8  | 358.0  | 266.3  | 48.9   |
| 82.5° | 396.4   | 441.8   | 1004.1  | 2390.6  | 3706.4  | 3879.3  | 883.6   | 261.1  | 261.9  | 219.2  | 29.7   |
| 85°   | 126.6   | 144.9   | 313.5   | 1073.1  | 1746.3  | 1533.2  | 230.5   | 126.6  | 190.3  | 163.3  | 16.6   |
| 87.5° | 15.7    | 20.1    | 99.5    | 252.3   | 385.1   | 213.9   | 35.8    | 37.5   | 81.2   | 90.8   | 9.6    |
| 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°    | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 | 3069.9 |
| 2.5°  | 3076.9 | 3072.5 | 3073.4 | 3050.7 | 3035.9 | 3006.2 | 2975.6 | 2961.7 | 2946.8 | 2940.7 | 2946.8 |
| 5°    | 3092.6 | 3084.8 | 3062.1 | 2992.2 | 2918.0 | 2822.0 | 2732.0 | 2663.9 | 2578.4 | 2554.8 | 2579.2 |
| 7.5°  | 3117.1 | 3101.4 | 3035.0 | 2892.7 | 2727.7 | 2544.3 | 2338.2 | 2188.1 | 2065.0 | 1985.5 | 2014.3 |
| 10°   | 3152.9 | 3123.2 | 2989.6 | 2747.7 | 2452.6 | 2127.8 | 1835.3 | 1607.4 | 1445.9 | 1379.5 | 1376.9 |
| 12.5° | 3213.1 | 3157.2 | 2933.7 | 2559.1 | 2116.5 | 1683.4 | 1300.1 | 1053.0 | 922.0  | 837.3  | 835.6  |
| 15°   | 3279.5 | 3197.4 | 2863.0 | 2333.0 | 1725.3 | 1205.8 | 837.3  | 649.6  | 564.9  | 537.8  | 534.4  |
| 17.5° | 3360.7 | 3243.7 | 2771.3 | 2054.5 | 1315.8 | 798.9  | 546.6  | 492.4  | 489.0  | 486.3  | 486.3  |
| 20°   | 3462.8 | 3298.7 | 2653.4 | 1735.8 | 933.4  | 533.5  | 464.5  | 468.0  | 469.7  | 466.3  | 467.1  |
| 22.5° | 3581.6 | 3354.6 | 2512.9 | 1393.5 | 631.3  | 446.2  | 444.4  | 448.8  | 450.5  | 448.8  | 449.7  |
| 25°   | 3719.5 | 3419.2 | 2341.7 | 1034.7 | 455.8  | 423.5  | 427.8  | 433.9  | 438.3  | 438.3  | 438.3  |
| 27.5° | 3890.7 | 3497.8 | 2135.7 | 722.1  | 393.8  | 399.9  | 412.1  | 423.5  | 429.6  | 431.3  | 431.3  |
| 30°   | 4113.3 | 3595.5 | 1888.6 | 495.1  | 358.0  | 368.5  | 391.2  | 413.0  | 424.3  | 426.1  | 427.0  |
| 32.5° | 4394.5 | 3705.6 | 1602.2 | 365.8  | 327.4  | 335.3  | 359.7  | 396.4  | 418.2  | 421.7  | 421.7  |
| 35°   | 4716.6 | 3833.0 | 1294.0 | 318.7  | 305.6  | 308.2  | 327.4  | 369.3  | 407.8  | 417.4  | 418.2  |
| 37.5° | 5069.4 | 3958.8 | 984.0  | 297.7  | 287.3  | 287.3  | 301.2  | 337.0  | 382.4  | 412.1  | 415.6  |
| 40°   | 5398.6 | 4034.7 | 689.8  | 281.1  | 270.7  | 270.7  | 282.9  | 309.1  | 351.9  | 396.4  | 406.0  |
| 42.5° | 5702.4 | 4060.9 | 480.2  | 265.4  | 255.0  | 257.6  | 268.1  | 289.0  | 321.3  | 365.8  | 374.6  |
| 45°   | 6015.0 | 4056.6 | 350.1  | 247.1  | 239.2  | 247.1  | 255.0  | 270.7  | 294.2  | 319.6  | 321.3  |
| 47.5° | 6250.7 | 4019.9 | 277.7  | 229.6  | 224.4  | 234.9  | 241.9  | 252.3  | 265.4  | 263.7  | 263.7  |
| 50°   | 6471.6 | 3930.8 | 223.5  | 206.1  | 209.6  | 221.8  | 225.3  | 228.8  | 229.6  | 213.0  | 211.3  |
| 52.5° | 6639.3 | 3792.0 | 179.0  | 180.7  | 194.7  | 206.9  | 203.4  | 198.2  | 189.5  | 169.4  | 165.9  |
| 55°   | 6695.2 | 3524.8 | 140.6  | 149.3  | 172.9  | 188.6  | 175.5  | 164.1  | 147.6  | 131.0  | 127.5  |
| 57.5° | 6593.9 | 3179.9 | 114.4  | 116.1  | 145.8  | 158.9  | 144.1  | 131.0  | 112.6  | 98.7   | 96.0   |
| 60°   | 6379.1 | 2796.6 | 94.3   | 87.3   | 112.6  | 124.0  | 114.4  | 101.3  | 84.7   | 74.2   | 73.3   |
| 62.5° | 5953.0 | 2388.0 | 77.7   | 68.1   | 85.6   | 95.2   | 89.1   | 79.5   | 65.5   | 58.5   | 57.6   |
| 65°   | 5057.2 | 1910.4 | 62.9   | 55.0   | 66.4   | 74.2   | 69.0   | 62.0   | 51.5   | 46.3   | 45.4   |
| 67.5° | 3530.1 | 1291.4 | 51.5   | 45.4   | 52.4   | 58.5   | 54.1   | 50.6   | 41.0   | 40.2   | 41.0   |
| 70°   | 1702.6 | 622.5  | 42.8   | 36.7   | 41.0   | 45.4   | 43.7   | 41.0   | 39.3   | 45.4   | 52.4   |
| 72.5° | 488.1  | 208.7  | 34.1   | 30.6   | 33.2   | 35.8   | 37.5   | 36.7   | 42.8   | 55.0   | 63.7   |
| 73°   | 375.4  | 168.5  | 32.3   | 28.8   | 31.4   | 34.9   | 36.7   | 35.8   | 43.7   | 55.9   | 63.7   |
| 75°   | 160.7  | 81.2   | 24.4   | 23.6   | 26.2   | 30.6   | 32.3   | 32.3   | 43.7   | 56.8   | 61.1   |
| 77.5° | 72.5   | 43.7   | 15.7   | 18.3   | 22.7   | 24.4   | 27.1   | 27.1   | 34.9   | 43.7   | 43.7   |
| 80°   | 41.0   | 23.6   | 12.2   | 14.0   | 16.6   | 16.6   | 16.6   | 14.8   | 15.7   | 17.5   | 19.2   |
| 82.5° | 26.2   | 15.7   | 9.6    | 11.4   | 10.5   | 8.7    | 7.0    | 7.0    | 6.1    | 7.0    | 8.7    |
| 85°   | 14.8   | 8.7    | 8.7    | 7.0    | 4.4    | 3.5    | 4.4    | 3.5    | 0.9    | 0.0    | 0.9    |
| 87.5° | 8.7    | 5.2    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)