

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: P322598

Luminaire Tested: **GAN-SA4B-750-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322598  
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-SA4B-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 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: 16369 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

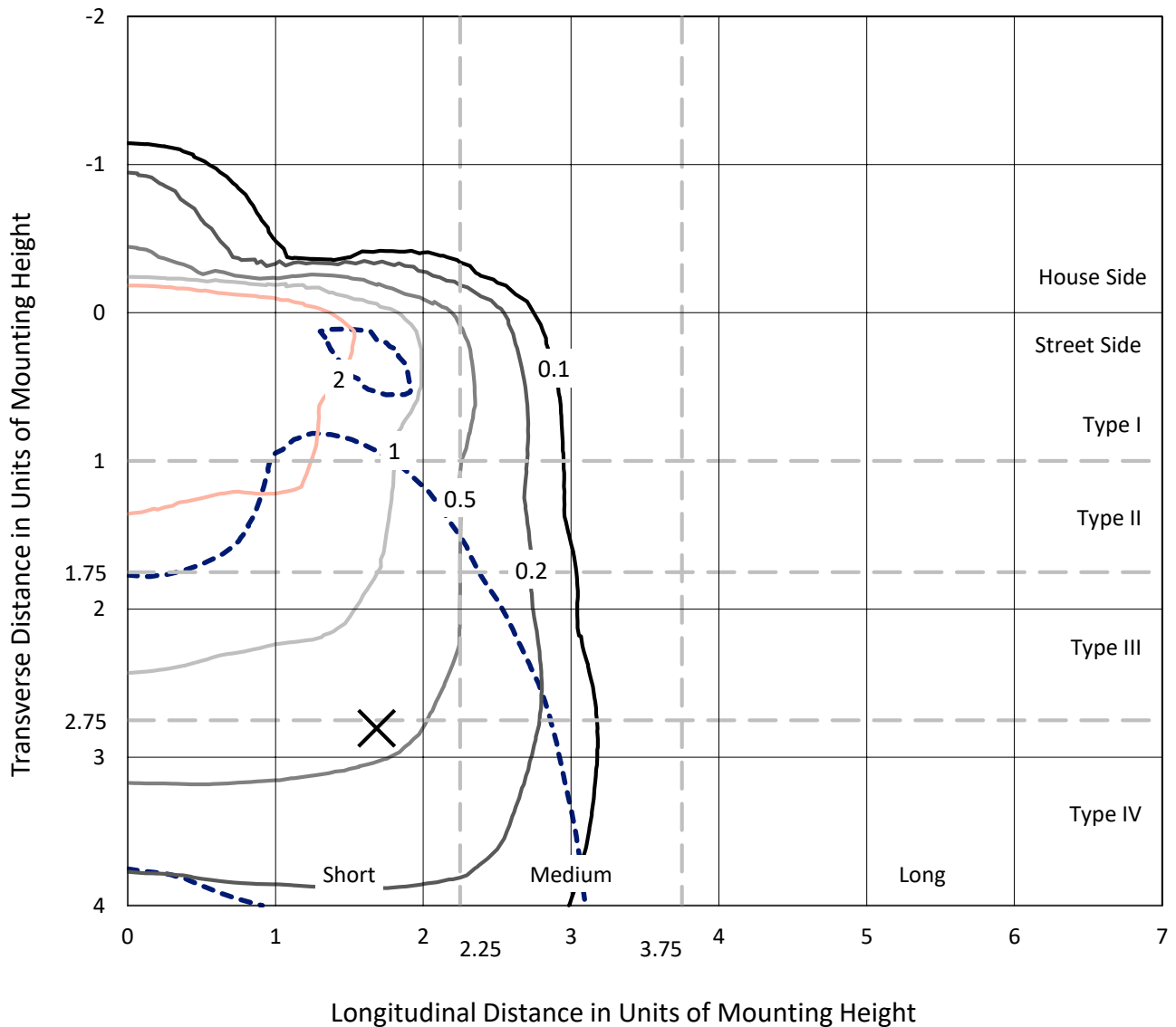
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

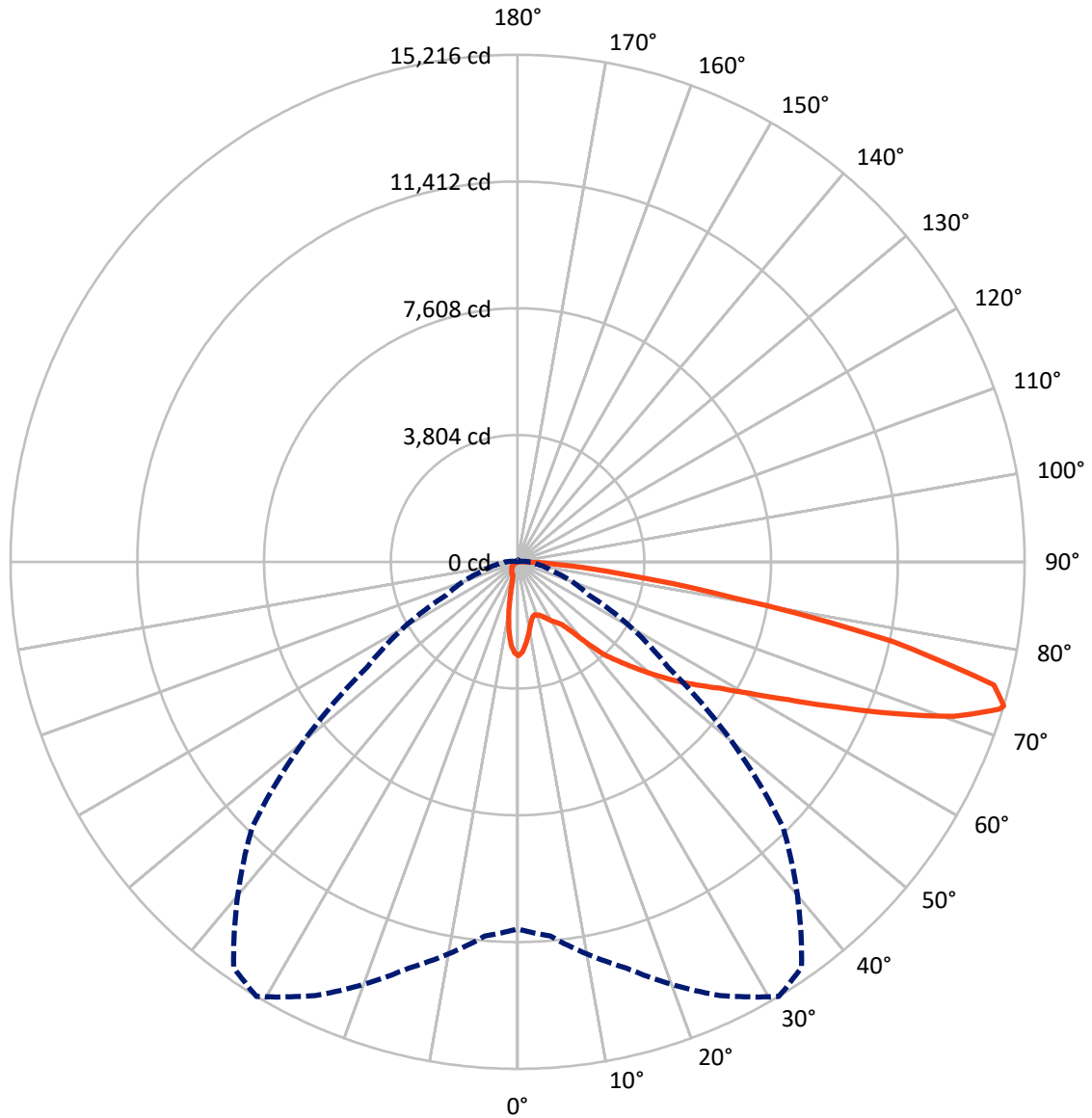
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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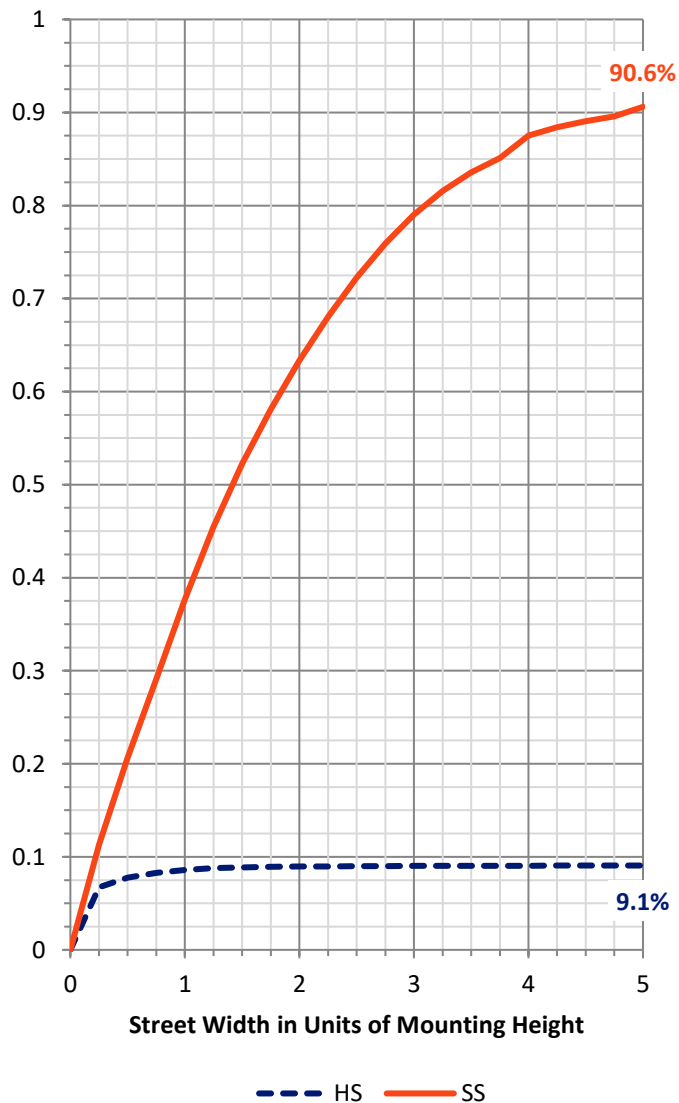
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1492.1   | 0.0    | 1492.1  |
|                    | % Fixture | 9.1      | 0.0    | 9.1     |
| <b>Street Side</b> | Lumens    | 14876.9  | 0.0    | 14876.9 |
|                    | % Fixture | 90.9     | 0.0    | 90.9    |
| <b>Total</b>       | Lumens    | 16369.0  | 0.0    | 16369.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 233.5   | 1.4       |
| 10°-20°   | 507.0   | 3.1       |
| 20°-30°   | 759.7   | 4.6       |
| 30°-40°   | 1208.6  | 7.4       |
| 40°-50°   | 2158.3  | 13.2      |
| 50°-60°   | 3349.0  | 20.5      |
| 60°-70°   | 4452.1  | 27.2      |
| 70°-80°   | 3348.9  | 20.5      |
| 80°-90°   | 351.9   | 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°    | 16369.0 | 100.0     |
| 0°-180°   | 16369.0 | 100.0     |

**Coefficient of Utilization**

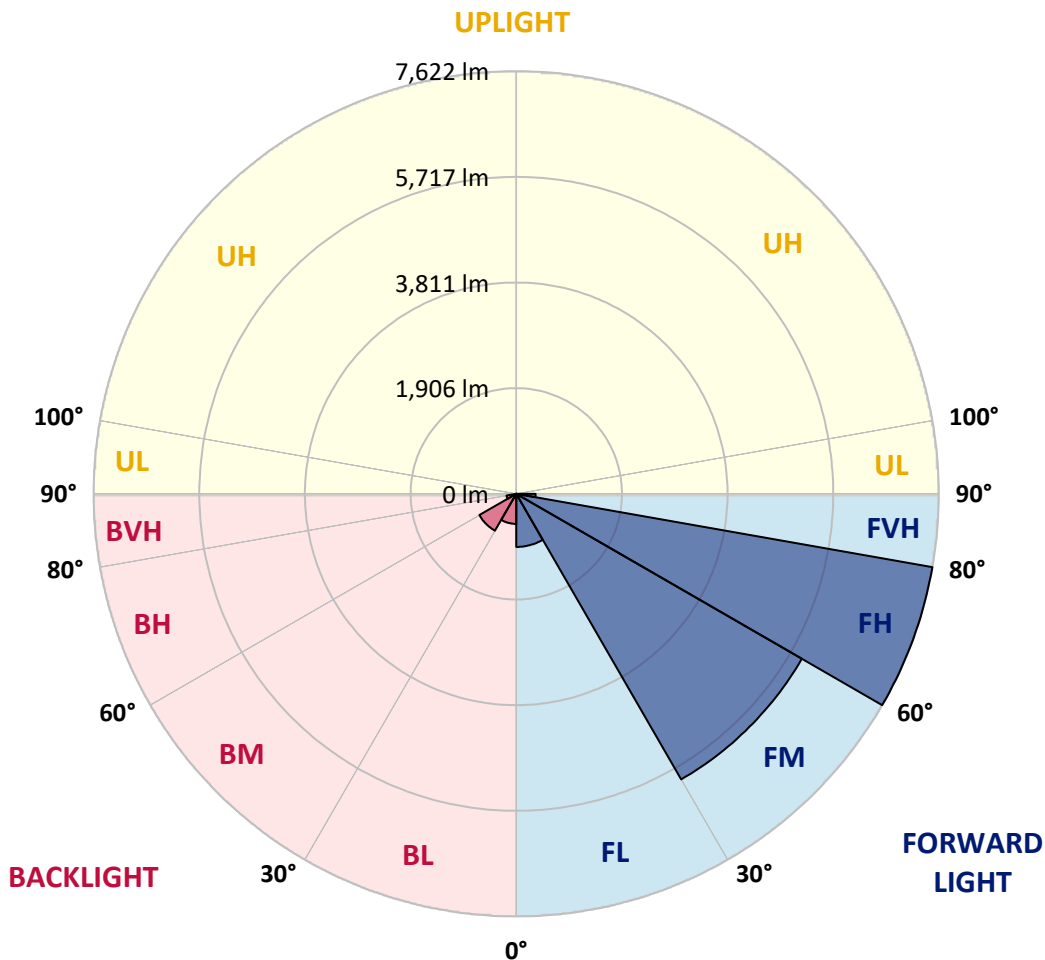


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 957.6  | 5.9       |                         |      |          |
| FM (30°-60°)   | 5947.9 | 36.3      |                         |      |          |
| FH (60°-80°)   | 7622.4 | 46.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 348.9  | 2.1       |                         |      | G3/500   |
| BL (0°-30°)    | 542.6  | 3.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 768.0  | 4.7       | B1/1000                 |      |          |
| BH (60°-80°)   | 178.5  | 1.1       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 3.0    | 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°    | 2816.3  | 2816.3  | 2816.3  | 2816.3  | 2816.3  | 2816.3  | 2816.3  | 2816.3 | 2816.3 | 2816.3 | 2816.3 |
| 2.5°  | 2668.9  | 2680.1  | 2692.2  | 2694.6  | 2714.6  | 2715.4  | 2744.2  | 2765.9 | 2787.5 | 2808.3 | 2815.5 |
| 5°    | 2395.0  | 2413.4  | 2435.0  | 2456.7  | 2499.1  | 2515.9  | 2586.4  | 2658.5 | 2727.4 | 2793.1 | 2825.1 |
| 7.5°  | 2102.6  | 2123.5  | 2153.9  | 2207.6  | 2254.8  | 2287.7  | 2399.0  | 2527.2 | 2655.3 | 2776.3 | 2846.0 |
| 10°   | 1835.9  | 1855.1  | 1887.2  | 1944.0  | 2016.9  | 2061.8  | 2211.6  | 2389.4 | 2577.6 | 2761.1 | 2877.2 |
| 12.5° | 1666.1  | 1676.5  | 1694.1  | 1755.0  | 1820.7  | 1871.1  | 2047.4  | 2267.6 | 2513.5 | 2760.2 | 2927.7 |
| 15°   | 1634.8  | 1638.0  | 1623.6  | 1650.9  | 1702.1  | 1751.0  | 1929.6  | 2169.1 | 2464.7 | 2773.1 | 2993.3 |
| 17.5° | 1684.5  | 1682.9  | 1634.8  | 1631.6  | 1672.5  | 1712.5  | 1871.9  | 2101.0 | 2430.2 | 2802.7 | 3078.2 |
| 20°   | 1759.8  | 1754.2  | 1670.9  | 1655.7  | 1698.9  | 1736.6  | 1867.9  | 2075.4 | 2417.4 | 2852.4 | 3181.6 |
| 22.5° | 1859.9  | 1850.3  | 1719.7  | 1703.7  | 1750.2  | 1789.4  | 1917.6  | 2100.2 | 2428.6 | 2918.8 | 3301.7 |
| 25°   | 1984.1  | 1969.7  | 1803.9  | 1786.2  | 1833.5  | 1872.7  | 2006.5  | 2171.5 | 2462.3 | 2999.7 | 3453.9 |
| 27.5° | 2124.3  | 2103.4  | 1938.4  | 1892.8  | 1946.4  | 1987.3  | 2125.1  | 2280.5 | 2515.1 | 3085.5 | 3640.6 |
| 30°   | 2256.4  | 2229.2  | 2080.2  | 2004.9  | 2070.6  | 2116.2  | 2253.2  | 2410.2 | 2600.0 | 3217.6 | 3896.1 |
| 32.5° | 2389.4  | 2358.9  | 2206.8  | 2117.0  | 2176.3  | 2226.0  | 2385.4  | 2588.8 | 2759.4 | 3419.5 | 4235.7 |
| 35°   | 2695.4  | 2663.3  | 2476.7  | 2328.5  | 2327.7  | 2355.7  | 2570.4  | 2833.1 | 2970.1 | 3700.6 | 4641.0 |
| 37.5° | 3210.4  | 3192.0  | 3014.2  | 2733.0  | 2657.7  | 2626.5  | 2822.7  | 3124.7 | 3272.9 | 4087.5 | 5098.4 |
| 40°   | 3774.3  | 3758.3  | 3558.8  | 3304.1  | 3189.6  | 3112.7  | 3184.8  | 3530.8 | 3700.6 | 4560.1 | 5565.4 |
| 42.5° | 4411.1  | 4335.0  | 3979.4  | 3903.3  | 3800.8  | 3742.3  | 3677.4  | 4031.4 | 4226.1 | 5074.3 | 6028.3 |
| 45°   | 4989.4  | 4861.3  | 4399.9  | 4284.6  | 4261.3  | 4275.7  | 4311.8  | 4704.3 | 4817.2 | 5685.5 | 6489.7 |
| 47.5° | 5333.9  | 5232.9  | 4878.9  | 4768.4  | 4762.0  | 4857.3  | 5129.6  | 5464.4 | 5406.0 | 6218.2 | 6895.8 |
| 50°   | 5661.5  | 5570.2  | 5276.2  | 5303.4  | 5333.1  | 5462.8  | 6058.0  | 6246.2 | 5943.4 | 6701.2 | 7268.3 |
| 52.5° | 5926.6  | 5787.2  | 5633.4  | 5786.4  | 5932.2  | 6141.3  | 7016.0  | 6947.9 | 6324.7 | 7085.7 | 7587.1 |
| 55°   | 6079.6  | 6016.3  | 6090.8  | 6244.6  | 6518.5  | 6858.2  | 7920.3  | 7531.8 | 6603.5 | 7436.5 | 7799.3 |
| 57.5° | 6640.3  | 6516.1  | 6664.3  | 6797.3  | 7154.5  | 7629.5  | 8694.9  | 7966.8 | 6804.5 | 7653.6 | 7848.2 |
| 60°   | 7318.7  | 7218.6  | 7305.9  | 7527.0  | 8009.2  | 8567.5  | 9419.0  | 8321.6 | 6909.4 | 7792.9 | 7721.7 |
| 62.5° | 8398.5  | 8266.3  | 8211.9  | 8459.4  | 9098.6  | 9708.1  | 9968.5  | 8567.5 | 6886.2 | 7731.3 | 7287.5 |
| 65°   | 9845.1  | 9708.1  | 9464.6  | 9688.9  | 10501.9 | 10932.1 | 10582.8 | 8619.6 | 6726.0 | 7232.2 | 6190.1 |
| 67.5° | 11327.0 | 11227.6 | 11019.4 | 11397.4 | 12131.2 | 12269.7 | 11232.4 | 8493.0 | 6210.2 | 5864.1 | 4373.5 |
| 70°   | 12305.8 | 12263.3 | 12398.7 | 13234.9 | 13889.4 | 13849.3 | 11828.4 | 7813.0 | 4840.4 | 3606.1 | 2163.5 |
| 72.5° | 11600.1 | 11803.6 | 12803.2 | 14319.5 | 15118.9 | 14792.1 | 11522.4 | 5999.5 | 2766.7 | 1387.3 | 625.6  |
| 73°   | 11015.4 | 11275.7 | 12621.4 | 14360.3 | 15215.8 | 14857.8 | 11265.3 | 5506.9 | 2358.1 | 1095.0 | 474.2  |
| 75°   | 7663.2  | 7982.8  | 10449.1 | 13374.3 | 14762.5 | 14156.1 | 9390.1  | 3370.6 | 1092.6 | 485.4  | 191.4  |
| 77.5° | 3720.7  | 3956.9  | 5753.6  | 9663.3  | 11480.7 | 11060.2 | 5845.7  | 1256.0 | 493.4  | 303.6  | 88.1   |
| 80°   | 1388.9  | 1544.3  | 2497.5  | 4918.1  | 6634.7  | 6808.5  | 2571.2  | 475.0  | 328.4  | 244.3  | 44.9   |
| 82.5° | 363.7   | 405.3   | 921.2   | 2193.1  | 3400.2  | 3558.8  | 810.6   | 239.5  | 240.3  | 201.1  | 27.2   |
| 85°   | 116.1   | 133.0   | 287.6   | 984.4   | 1602.0  | 1406.6  | 211.5   | 116.1  | 174.6  | 149.8  | 15.2   |
| 87.5° | 14.4    | 18.4    | 91.3    | 231.5   | 353.2   | 196.2   | 32.8    | 34.4   | 74.5   | 83.3   | 8.8    |
| 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°    | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 | 2816.3 |
| 2.5°  | 2822.7 | 2818.7 | 2819.5 | 2798.7 | 2785.1 | 2757.8 | 2729.8 | 2717.0 | 2703.4 | 2697.8 | 2703.4 |
| 5°    | 2837.1 | 2829.9 | 2809.1 | 2745.0 | 2676.9 | 2588.8 | 2506.3 | 2443.9 | 2365.4 | 2343.7 | 2366.2 |
| 7.5°  | 2859.6 | 2845.2 | 2784.3 | 2653.7 | 2502.3 | 2334.1 | 2145.1 | 2007.3 | 1894.4 | 1821.5 | 1847.9 |
| 10°   | 2892.4 | 2865.2 | 2742.6 | 2520.8 | 2250.0 | 1952.0 | 1683.7 | 1474.6 | 1326.5 | 1265.6 | 1263.2 |
| 12.5° | 2947.7 | 2896.4 | 2691.4 | 2347.7 | 1941.6 | 1544.3 | 1192.7 | 966.0  | 845.9  | 768.2  | 766.6  |
| 15°   | 3008.6 | 2933.3 | 2626.5 | 2140.3 | 1582.8 | 1106.2 | 768.2  | 595.9  | 518.2  | 493.4  | 490.2  |
| 17.5° | 3083.1 | 2975.7 | 2542.4 | 1884.8 | 1207.1 | 732.9  | 501.4  | 451.8  | 448.6  | 446.2  | 446.2  |
| 20°   | 3176.8 | 3026.2 | 2434.2 | 1592.4 | 856.3  | 489.4  | 426.1  | 429.3  | 430.9  | 427.7  | 428.5  |
| 22.5° | 3285.7 | 3077.4 | 2305.3 | 1278.4 | 579.1  | 409.3  | 407.7  | 411.7  | 413.3  | 411.7  | 412.5  |
| 25°   | 3412.3 | 3136.7 | 2148.3 | 949.2  | 418.1  | 388.5  | 392.5  | 398.1  | 402.1  | 402.1  | 402.1  |
| 27.5° | 3569.3 | 3208.8 | 1959.2 | 662.4  | 361.3  | 366.9  | 378.1  | 388.5  | 394.1  | 395.7  | 395.7  |
| 30°   | 3773.5 | 3298.5 | 1732.6 | 454.2  | 328.4  | 338.0  | 358.8  | 378.9  | 389.3  | 390.9  | 391.7  |
| 32.5° | 4031.4 | 3399.4 | 1469.8 | 335.6  | 300.4  | 307.6  | 330.0  | 363.7  | 383.7  | 386.9  | 386.9  |
| 35°   | 4327.0 | 3516.4 | 1187.1 | 292.4  | 280.4  | 282.8  | 300.4  | 338.8  | 374.1  | 382.9  | 383.7  |
| 37.5° | 4650.6 | 3631.7 | 902.7  | 273.1  | 263.5  | 263.5  | 276.3  | 309.2  | 350.8  | 378.1  | 381.3  |
| 40°   | 4952.6 | 3701.4 | 632.8  | 257.9  | 248.3  | 248.3  | 259.5  | 283.6  | 322.8  | 363.7  | 372.5  |
| 42.5° | 5231.3 | 3725.5 | 440.6  | 243.5  | 233.9  | 236.3  | 245.9  | 265.1  | 294.8  | 335.6  | 343.6  |
| 45°   | 5518.1 | 3721.5 | 321.2  | 226.7  | 219.5  | 226.7  | 233.9  | 248.3  | 269.9  | 293.2  | 294.8  |
| 47.5° | 5734.4 | 3687.8 | 254.7  | 210.7  | 205.9  | 215.5  | 221.9  | 231.5  | 243.5  | 241.9  | 241.9  |
| 50°   | 5937.0 | 3606.1 | 205.1  | 189.0  | 192.2  | 203.5  | 206.7  | 209.9  | 210.7  | 195.4  | 193.8  |
| 52.5° | 6090.8 | 3478.7 | 164.2  | 165.8  | 178.6  | 189.8  | 186.6  | 181.8  | 173.8  | 155.4  | 152.2  |
| 55°   | 6142.1 | 3233.6 | 129.0  | 137.0  | 158.6  | 173.0  | 161.0  | 150.6  | 135.4  | 120.2  | 116.9  |
| 57.5° | 6049.2 | 2917.2 | 104.9  | 106.5  | 133.8  | 145.8  | 132.2  | 120.2  | 103.3  | 90.5   | 88.1   |
| 60°   | 5852.1 | 2565.6 | 86.5   | 80.1   | 103.3  | 113.7  | 104.9  | 92.9   | 77.7   | 68.1   | 67.3   |
| 62.5° | 5461.2 | 2190.7 | 71.3   | 62.5   | 78.5   | 87.3   | 81.7   | 72.9   | 60.1   | 53.7   | 52.9   |
| 65°   | 4639.4 | 1752.6 | 57.7   | 50.5   | 60.9   | 68.1   | 63.3   | 56.9   | 47.3   | 42.5   | 41.7   |
| 67.5° | 3238.4 | 1184.7 | 47.3   | 41.7   | 48.1   | 53.7   | 49.7   | 46.5   | 37.6   | 36.8   | 37.6   |
| 70°   | 1562.0 | 571.1  | 39.2   | 33.6   | 37.6   | 41.7   | 40.1   | 37.6   | 36.0   | 41.7   | 48.1   |
| 72.5° | 447.8  | 191.4  | 31.2   | 28.0   | 30.4   | 32.8   | 34.4   | 33.6   | 39.2   | 50.5   | 58.5   |
| 73°   | 344.4  | 154.6  | 29.6   | 26.4   | 28.8   | 32.0   | 33.6   | 32.8   | 40.1   | 51.3   | 58.5   |
| 75°   | 147.4  | 74.5   | 22.4   | 21.6   | 24.0   | 28.0   | 29.6   | 29.6   | 40.1   | 52.1   | 56.1   |
| 77.5° | 66.5   | 40.1   | 14.4   | 16.8   | 20.8   | 22.4   | 24.8   | 24.8   | 32.0   | 40.1   | 40.1   |
| 80°   | 37.6   | 21.6   | 11.2   | 12.8   | 15.2   | 15.2   | 15.2   | 13.6   | 14.4   | 16.0   | 17.6   |
| 82.5° | 24.0   | 14.4   | 8.8    | 10.4   | 9.6    | 8.0    | 6.4    | 6.4    | 5.6    | 6.4    | 8.0    |
| 85°   | 13.6   | 8.0    | 8.0    | 6.4    | 4.0    | 3.2    | 4.0    | 3.2    | 0.8    | 0.0    | 0.8    |
| 87.5° | 8.0    | 4.8    | 2.4    | 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)