

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: P654315

Luminaire Tested: **GLAN-SA4B-840-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15659.4 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

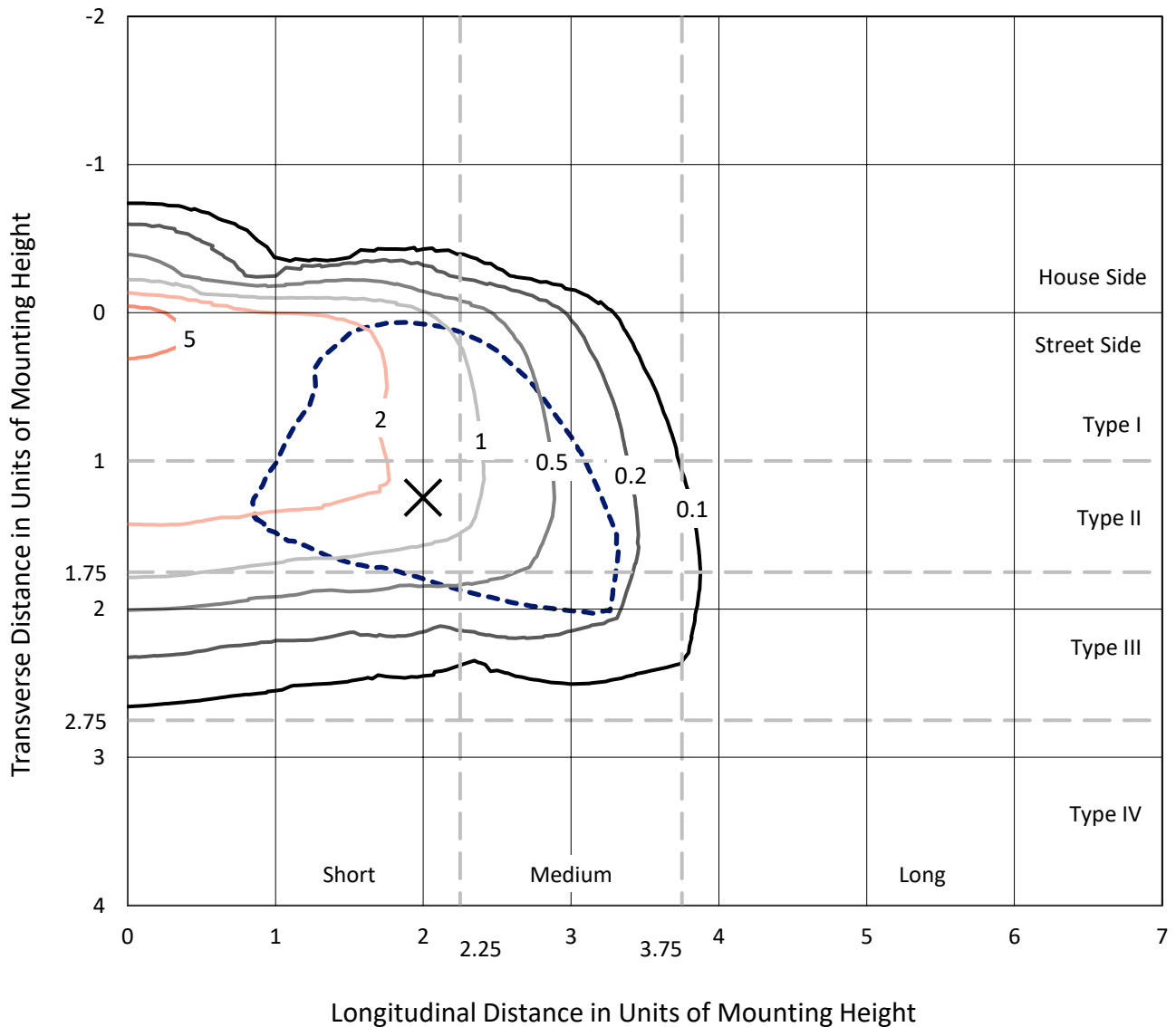
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

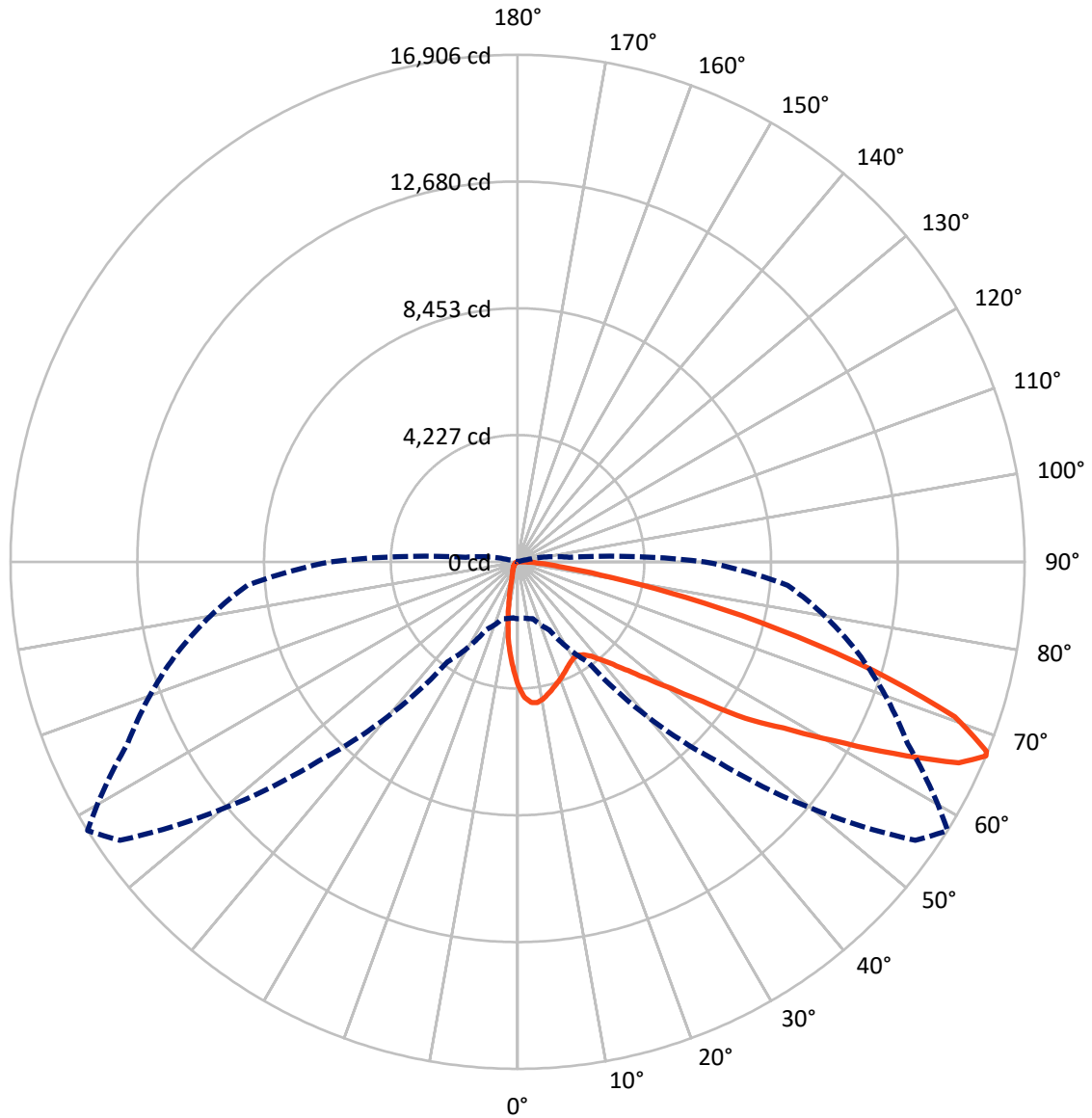
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1130.1   | 0.0    | 1130.1  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 14529.3  | 0.0    | 14529.3 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 15659.4  | 0.0    | 15659.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 336.9   | 2.2       |
| 10°-20°   | 727.5   | 4.6       |
| 20°-30°   | 985.9   | 6.3       |
| 30°-40°   | 1367.3  | 8.7       |
| 40°-50°   | 2180.7  | 13.9      |
| 50°-60°   | 3769.6  | 24.1      |
| 60°-70°   | 4306.0  | 27.5      |
| 70°-80°   | 1795.2  | 11.5      |
| 80°-90°   | 190.3   | 1.2       |
| 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°    | 15659.4 | 100.0     |
| 0°-180°   | 15659.4 | 100.0     |

**Coefficient of Utilization**

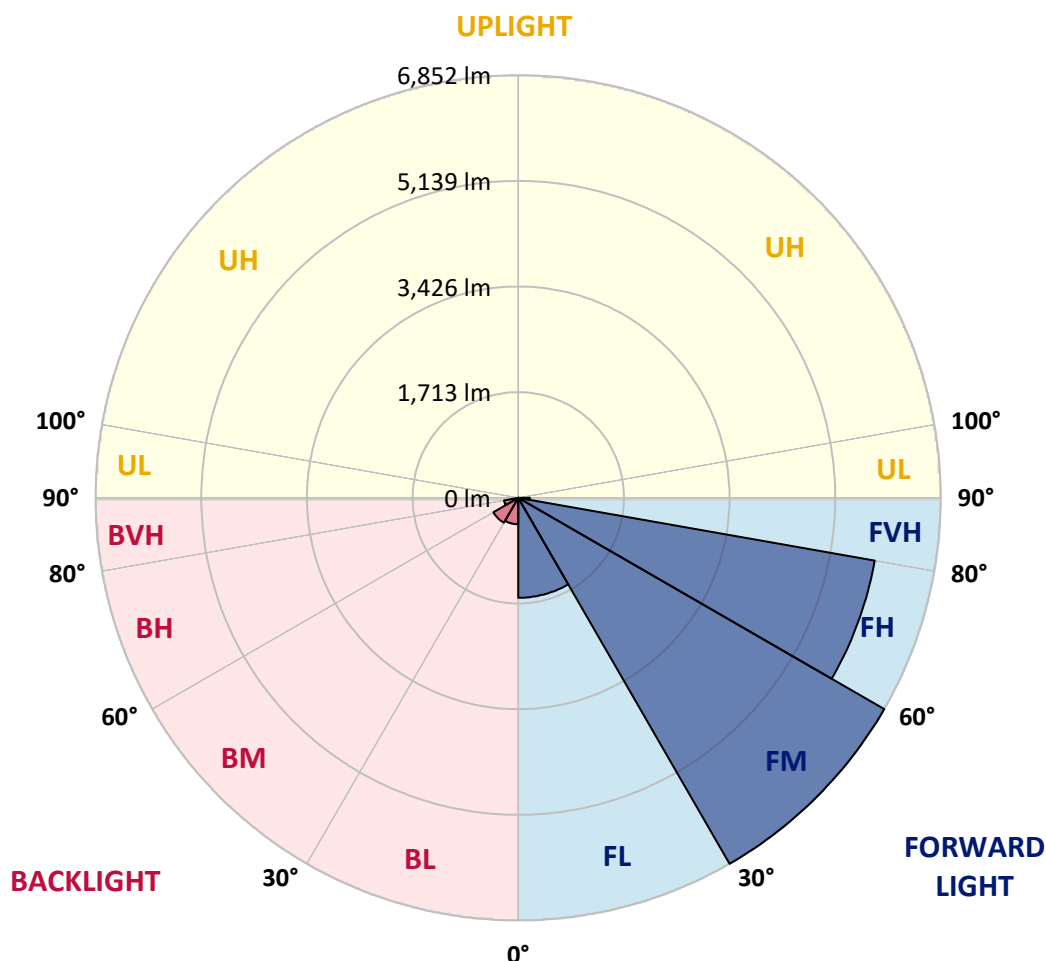


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1621.1 | 10.4      |                         |      |         |
| FM (30°-60°)   | 6851.6 | 43.8      |                         |      |         |
| FH (60°-80°)   | 5867.6 | 37.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 189.0  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 429.1  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 466.0  | 3.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 233.6  | 1.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2  | 4151.2  | 4151.2  | 4151.2  | 4151.2  | 4151.2  |
| 2.5°  | 4817.8 | 4825.1 | 4797.8 | 4775.9 | 4719.4 | 4658.7  | 4578.2  | 4535.2  | 4461.9  | 4335.4  | 4195.2  |
| 5°    | 4930.8 | 4940.2 | 4936.0 | 4930.8 | 4908.7 | 4850.2  | 4747.6  | 4709.9  | 4602.2  | 4396.0  | 4142.8  |
| 7.5°  | 4679.6 | 4714.1 | 4718.3 | 4759.1 | 4797.8 | 4803.1  | 4764.3  | 4736.1  | 4636.7  | 4395.0  | 4049.7  |
| 10°   | 4346.9 | 4369.8 | 4403.4 | 4450.5 | 4543.6 | 4621.0  | 4658.7  | 4654.5  | 4596.9  | 4362.5  | 3940.8  |
| 12.5° | 4011.0 | 4023.5 | 4074.8 | 4155.4 | 4269.4 | 4401.3  | 4501.7  | 4521.6  | 4522.6  | 4323.8  | 3849.8  |
| 15°   | 3722.1 | 3716.9 | 3756.7 | 3849.8 | 4009.9 | 4175.2  | 4355.2  | 4386.7  | 4436.9  | 4286.2  | 3765.1  |
| 17.5° | 3475.2 | 3502.3 | 3508.7 | 3611.3 | 3758.8 | 3973.3  | 4202.5  | 4257.9  | 4358.4  | 4253.7  | 3694.9  |
| 20°   | 3322.4 | 3337.1 | 3350.6 | 3408.2 | 3541.1 | 3767.1  | 4059.1  | 4135.4  | 4285.1  | 4224.4  | 3616.5  |
| 22.5° | 3277.4 | 3286.8 | 3275.3 | 3293.1 | 3387.3 | 3588.2  | 3903.2  | 4004.7  | 4215.0  | 4197.2  | 3552.6  |
| 25°   | 3311.9 | 3321.4 | 3294.1 | 3273.3 | 3305.6 | 3442.7  | 3752.5  | 3875.9  | 4158.5  | 4192.0  | 3504.4  |
| 27.5° | 3395.6 | 3413.5 | 3375.8 | 3338.1 | 3319.3 | 3364.3  | 3634.2  | 3777.6  | 4119.8  | 4217.1  | 3482.5  |
| 30°   | 3526.5 | 3536.9 | 3508.7 | 3462.6 | 3419.8 | 3374.7  | 3572.5  | 3709.6  | 4109.3  | 4275.7  | 3480.4  |
| 32.5° | 3668.8 | 3690.7 | 3675.1 | 3644.7 | 3589.2 | 3482.5  | 3590.3  | 3711.7  | 4134.4  | 4360.4  | 3506.5  |
| 35°   | 3844.5 | 3869.7 | 3884.3 | 3878.0 | 3806.9 | 3674.0  | 3703.3  | 3805.9  | 4201.4  | 4516.3  | 3577.7  |
| 37.5° | 4017.2 | 4039.2 | 4121.9 | 4150.1 | 4087.3 | 3961.8  | 3923.0  | 3991.0  | 4349.0  | 4720.4  | 3706.5  |
| 40°   | 4215.0 | 4244.3 | 4360.4 | 4468.2 | 4437.9 | 4306.0  | 4234.9  | 4291.4  | 4575.0  | 5028.1  | 3950.3  |
| 42.5° | 4404.4 | 4456.7 | 4633.6 | 4824.1 | 4852.2 | 4704.7  | 4657.6  | 4676.5  | 4909.8  | 5470.7  | 4290.4  |
| 45°   | 4673.4 | 4722.6 | 4950.6 | 5209.1 | 5342.0 | 5226.9  | 5178.8  | 5175.6  | 5369.2  | 6093.3  | 4841.8  |
| 47.5° | 5061.6 | 5105.5 | 5374.4 | 5629.7 | 5866.2 | 5882.0  | 5791.0  | 5822.3  | 5946.8  | 6821.6  | 5517.8  |
| 50°   | 5537.6 | 5641.3 | 5818.1 | 6083.9 | 6399.9 | 6655.3  | 6683.5  | 6641.6  | 6748.4  | 7665.0  | 6329.8  |
| 52.5° | 6229.4 | 6269.2 | 6431.3 | 6650.0 | 7020.5 | 7453.7  | 7789.6  | 7732.1  | 7698.5  | 8468.7  | 7150.2  |
| 55°   | 6745.2 | 6798.6 | 7050.8 | 7351.1 | 7894.2 | 8465.6  | 9193.9  | 9213.7  | 8791.1  | 9241.0  | 7952.8  |
| 57.5° | 6589.3 | 6671.0 | 7052.9 | 7656.7 | 8850.7 | 9895.0  | 10437.1 | 10450.7 | 9801.9  | 9991.2  | 8859.0  |
| 60°   | 5788.9 | 5827.5 | 6374.8 | 7180.5 | 8932.3 | 11443.7 | 12200.3 | 12090.4 | 10830.5 | 10830.5 | 9659.6  |
| 62.5° | 4105.1 | 4165.8 | 4609.5 | 5795.1 | 8066.9 | 11981.6 | 14312.0 | 14084.9 | 12247.4 | 11633.1 | 10136.7 |
| 65°   | 2623.4 | 2564.8 | 2858.8 | 3658.3 | 6009.6 | 11187.3 | 16150.6 | 16164.1 | 13580.5 | 11954.4 | 9876.2  |
| 67°   | 1900.3 | 1877.3 | 1962.1 | 2501.0 | 4074.8 | 9404.2  | 16189.2 | 16906.0 | 14346.5 | 11751.4 | 9043.2  |
| 67.5° | 1738.1 | 1755.9 | 1817.7 | 2256.1 | 3702.3 | 8557.7  | 16013.5 | 16862.1 | 14519.1 | 11628.9 | 8741.9  |
| 70°   | 1317.4 | 1287.1 | 1354.1 | 1595.8 | 2219.5 | 5398.5  | 13775.2 | 15465.1 | 14304.7 | 10414.0 | 6984.9  |
| 72.5° | 969.0  | 965.9  | 1059.0 | 1304.9 | 1708.8 | 2875.5  | 10340.8 | 12400.1 | 11686.5 | 7929.8  | 4398.1  |
| 75°   | 654.0  | 683.3  | 831.9  | 1090.4 | 1548.7 | 1864.7  | 7049.8  | 8996.1  | 8113.0  | 4502.8  | 1797.7  |
| 77.5° | 372.6  | 374.6  | 535.8  | 875.8  | 1390.7 | 1500.6  | 4177.3  | 5731.2  | 4294.6  | 1497.4  | 533.7   |
| 80°   | 161.1  | 176.9  | 265.8  | 636.2  | 1153.2 | 1328.9  | 2395.3  | 3149.7  | 1737.1  | 317.1   | 172.7   |
| 82.5° | 59.6   | 70.1   | 117.2  | 391.4  | 841.3  | 1094.6  | 1447.2  | 1503.7  | 589.1   | 111.9   | 107.8   |
| 85°   | 0.0    | 2.1    | 42.9   | 183.1  | 438.4  | 488.7   | 966.9   | 891.5   | 260.5   | 53.4    | 70.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 18.8   | 57.5   | 182.1   | 300.3   | 334.9   | 62.8    | 18.8    | 16.7    |
| 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°    | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 | 4151.2 |
| 2.5°  | 4119.8 | 4051.8 | 3881.2 | 3710.7 | 3584.0 | 3478.3 | 3319.3 | 3232.4 | 3186.4 | 3118.3 | 3122.5 |
| 5°    | 4016.2 | 3878.0 | 3577.7 | 3266.9 | 3015.8 | 2770.9 | 2477.9 | 2359.7 | 2260.3 | 2203.8 | 2166.1 |
| 7.5°  | 3862.4 | 3658.3 | 3213.5 | 2799.2 | 2413.1 | 1985.1 | 1663.8 | 1449.3 | 1304.9 | 1251.5 | 1200.3 |
| 10°   | 3693.8 | 3422.9 | 2844.2 | 2269.7 | 1733.9 | 1292.4 | 1020.3 | 823.5  | 753.5  | 688.5  | 694.8  |
| 12.5° | 3538.0 | 3208.3 | 2505.2 | 1791.5 | 1214.9 | 821.4  | 640.4  | 559.9  | 536.8  | 529.5  | 529.5  |
| 15°   | 3410.3 | 3003.2 | 2141.0 | 1346.8 | 832.9  | 590.2  | 512.8  | 490.8  | 482.4  | 480.3  | 480.3  |
| 17.5° | 3274.3 | 2808.6 | 1812.4 | 995.2  | 605.9  | 493.9  | 467.8  | 453.1  | 449.9  | 447.8  | 447.8  |
| 20°   | 3152.9 | 2612.9 | 1500.6 | 740.8  | 489.7  | 444.7  | 428.0  | 418.6  | 415.5  | 413.4  | 414.4  |
| 22.5° | 3037.8 | 2439.2 | 1207.6 | 559.9  | 431.1  | 404.9  | 388.2  | 378.8  | 372.6  | 367.3  | 368.4  |
| 25°   | 2935.3 | 2271.8 | 971.1  | 458.3  | 388.2  | 365.2  | 348.4  | 334.9  | 321.3  | 315.0  | 313.9  |
| 27.5° | 2863.0 | 2125.3 | 756.6  | 392.4  | 349.5  | 324.4  | 303.4  | 286.7  | 269.0  | 259.5  | 257.4  |
| 30°   | 2803.4 | 1976.7 | 598.5  | 346.4  | 310.7  | 286.7  | 260.5  | 236.5  | 217.7  | 208.2  | 204.0  |
| 32.5° | 2764.6 | 1835.4 | 472.0  | 308.7  | 278.4  | 249.0  | 219.8  | 195.7  | 174.8  | 165.3  | 163.2  |
| 35°   | 2758.4 | 1717.2 | 386.1  | 277.3  | 249.0  | 217.7  | 187.3  | 161.1  | 143.4  | 134.0  | 131.9  |
| 37.5° | 2803.4 | 1626.2 | 323.4  | 252.2  | 225.0  | 190.5  | 156.9  | 132.9  | 117.2  | 109.8  | 108.8  |
| 40°   | 2923.7 | 1568.6 | 280.5  | 231.3  | 203.0  | 165.3  | 134.0  | 113.0  | 97.3   | 90.0   | 90.0   |
| 42.5° | 3152.9 | 1570.7 | 252.2  | 211.3  | 181.1  | 141.3  | 114.0  | 94.2   | 80.6   | 74.3   | 72.2   |
| 45°   | 3510.8 | 1641.8 | 228.1  | 191.5  | 160.1  | 122.4  | 97.3   | 77.5   | 63.8   | 58.6   | 58.6   |
| 47.5° | 3990.0 | 1783.1 | 207.2  | 171.6  | 141.3  | 104.6  | 82.7   | 62.8   | 51.3   | 46.0   | 46.0   |
| 50°   | 4616.8 | 2010.2 | 189.4  | 154.9  | 125.6  | 90.0   | 66.9   | 51.3   | 39.8   | 35.6   | 34.6   |
| 52.5° | 5271.9 | 2290.6 | 168.5  | 140.2  | 107.8  | 76.4   | 54.4   | 39.8   | 30.4   | 27.2   | 26.2   |
| 55°   | 5995.0 | 2564.8 | 148.6  | 125.6  | 87.9   | 63.8   | 42.9   | 31.4   | 22.0   | 18.8   | 18.8   |
| 57.5° | 6724.3 | 2833.7 | 124.6  | 104.6  | 69.0   | 47.1   | 33.5   | 23.0   | 14.6   | 11.5   | 11.5   |
| 60°   | 7341.7 | 2920.5 | 105.7  | 84.8   | 52.3   | 33.5   | 24.1   | 14.6   | 8.4    | 5.2    | 5.2    |
| 62.5° | 7426.5 | 2627.5 | 89.0   | 64.8   | 37.7   | 23.0   | 12.5   | 8.4    | 3.1    | 2.1    | 2.1    |
| 65°   | 6966.1 | 2134.7 | 74.3   | 49.2   | 25.1   | 11.5   | 5.2    | 3.1    | 1.0    | 0.0    | 0.0    |
| 67°   | 6241.9 | 1730.8 | 60.7   | 36.6   | 17.8   | 7.3    | 3.1    | 1.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 6056.7 | 1650.2 | 58.6   | 34.6   | 15.7   | 6.3    | 2.1    | 1.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 4752.8 | 1235.8 | 41.9   | 20.9   | 9.4    | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2954.1 | 699.0  | 30.4   | 12.5   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1116.5 | 244.9  | 20.9   | 8.4    | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 347.4  | 93.1   | 12.5   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 117.2  | 35.6   | 8.4    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 72.2   | 14.6   | 5.2    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 45.0   | 6.3    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.4    | 2.1    | 1.0    | 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)