

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: P650406

Luminaire Tested: **GLAN-SA5B-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18261.1 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

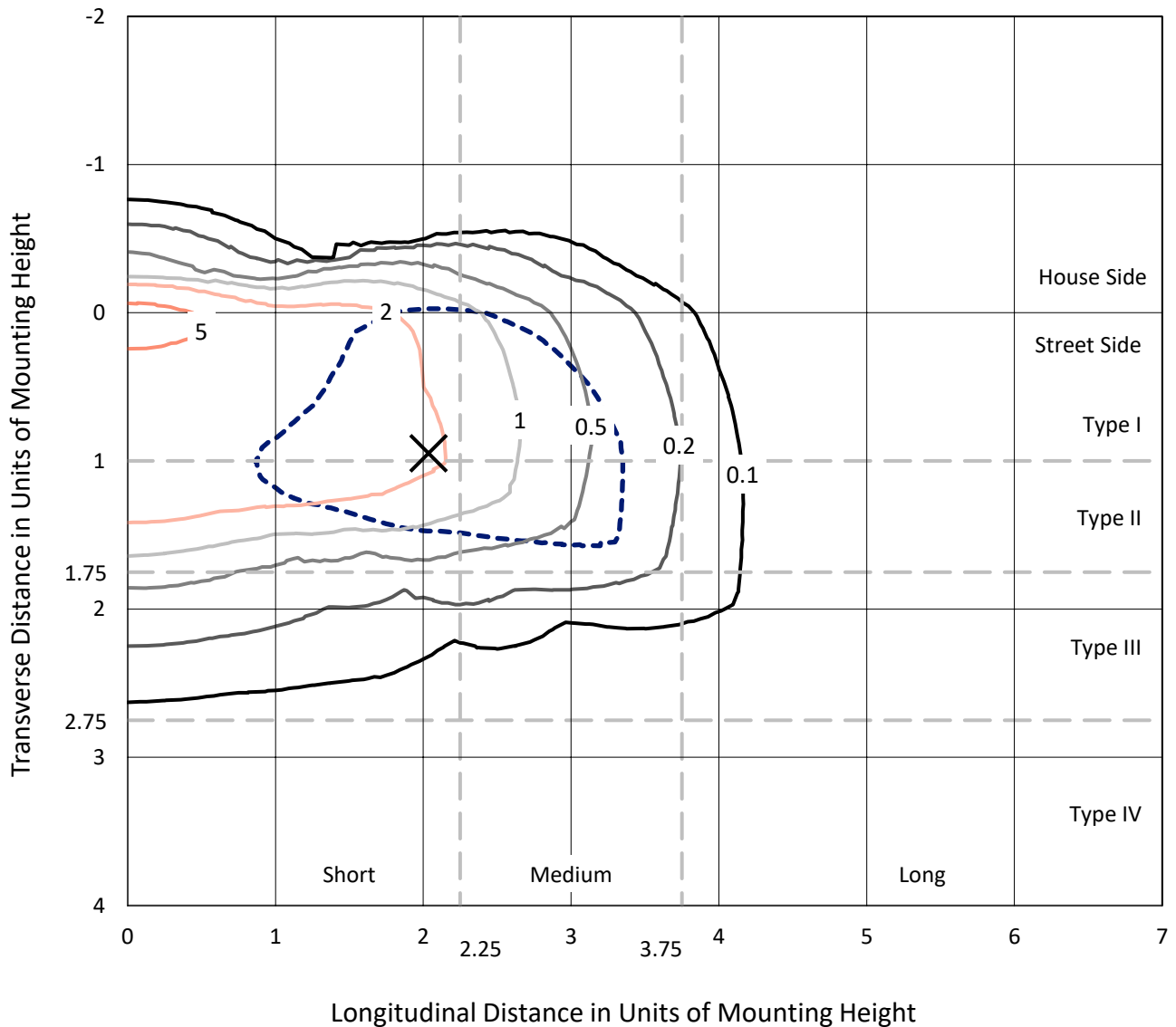
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

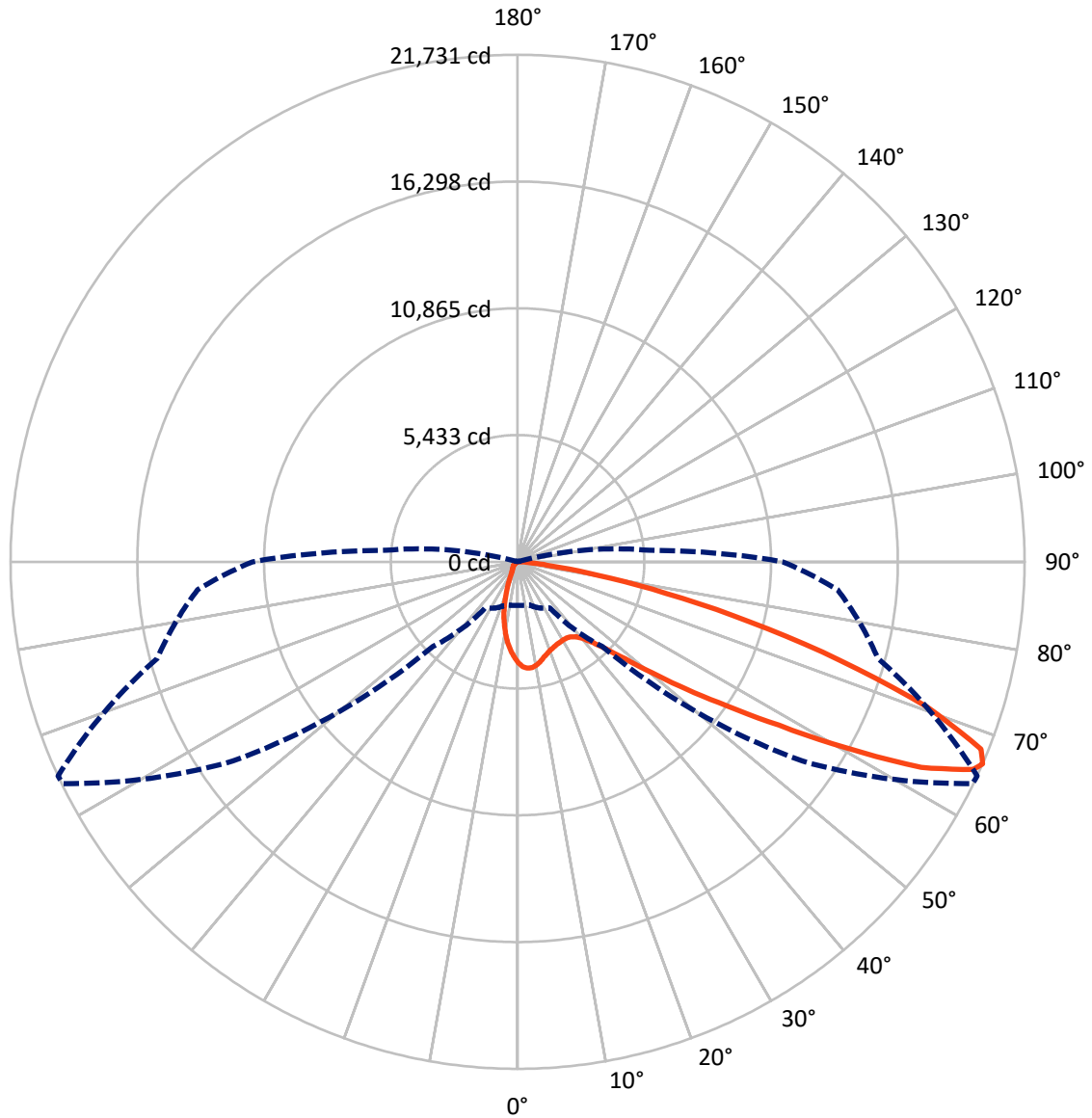
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1888.5   | 0.0    | 1888.5  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 16372.7  | 0.0    | 16372.7 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 18261.1  | 0.0    | 18261.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 354.2   | 1.9       |
| 10°-20°   | 771.7   | 4.2       |
| 20°-30°   | 1105.4  | 6.1       |
| 30°-40°   | 1614.5  | 8.8       |
| 40°-50°   | 2707.3  | 14.8      |
| 50°-60°   | 4518.1  | 24.7      |
| 60°-70°   | 4795.8  | 26.3      |
| 70°-80°   | 2172.0  | 11.9      |
| 80°-90°   | 222.2   | 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°    | 18261.1 | 100.0     |
| 0°-180°   | 18261.1 | 100.0     |

**Coefficient of Utilization**



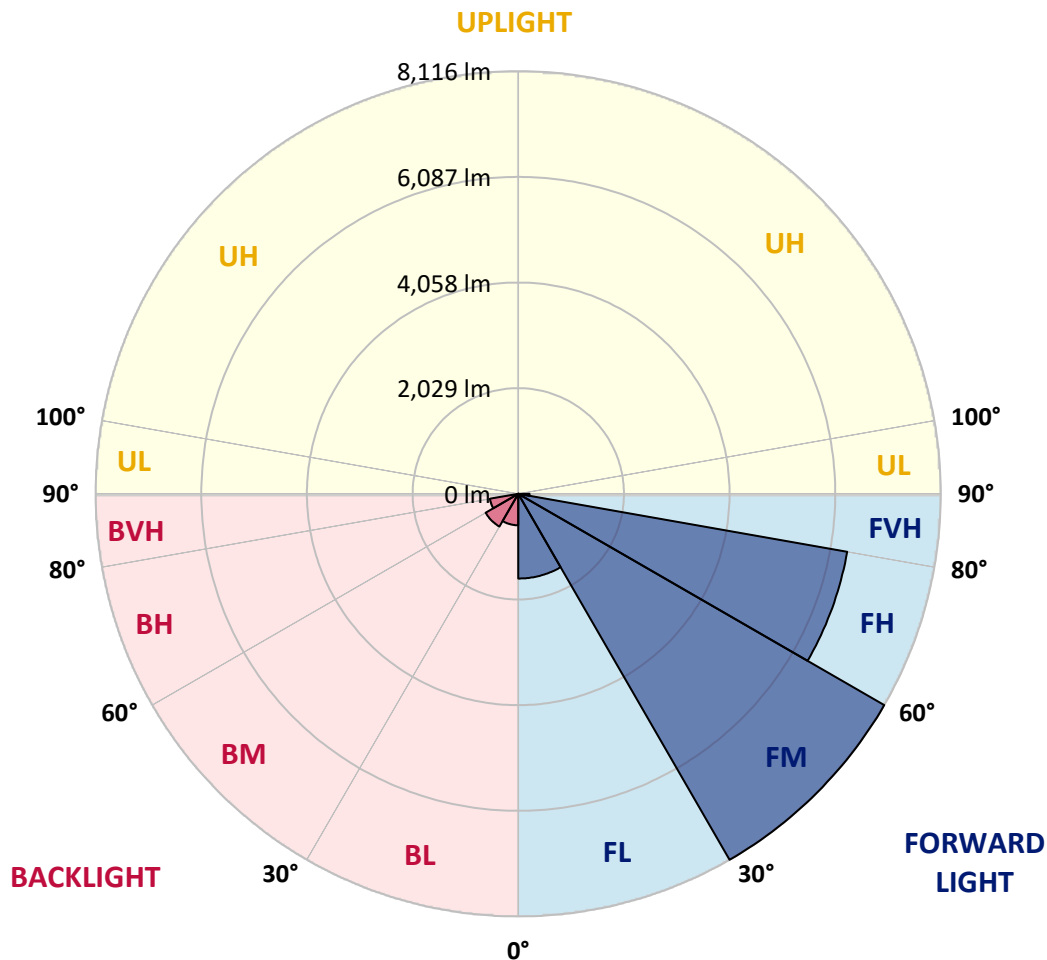
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1627.1 | 8.9       |                         |      |         |
| FM (30°-60°)   | 8115.7 | 44.4      |                         |      |         |
| FH (60°-80°)   | 6414.7 | 35.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 215.2  | 1.2       |                         |      | G2/225  |
| BL (0°-30°)    | 604.1  | 3.3       | B2/1000                 |      |         |
| BM (30°-60°)   | 724.2  | 4.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 553.0  | 3.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 7.1    | 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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4  | 4330.4  | 4330.4  | 4330.4  | 4330.4  | 4330.4  |
| 2.5°  | 4563.5 | 4568.4 | 4574.6 | 4583.2 | 4589.4 | 4570.9  | 4545.0  | 4515.4  | 4509.2  | 4446.3  | 4369.8  |
| 5°    | 4319.3 | 4326.7 | 4381.0 | 4410.6 | 4477.2 | 4537.6  | 4575.9  | 4580.8  | 4578.3  | 4519.1  | 4397.0  |
| 7.5°  | 3971.5 | 3992.4 | 4045.4 | 4097.3 | 4221.9 | 4336.6  | 4472.3  | 4567.2  | 4573.3  | 4557.3  | 4405.6  |
| 10°   | 3689.0 | 3702.6 | 3729.7 | 3832.1 | 3935.7 | 4110.8  | 4300.8  | 4479.6  | 4494.4  | 4558.5  | 4398.2  |
| 12.5° | 3468.2 | 3488.0 | 3521.3 | 3600.2 | 3724.8 | 3890.1  | 4105.9  | 4346.4  | 4377.3  | 4535.1  | 4377.3  |
| 15°   | 3314.0 | 3323.9 | 3357.3 | 3434.9 | 3555.8 | 3708.8  | 3927.1  | 4207.1  | 4234.2  | 4504.3  | 4373.5  |
| 17.5° | 3241.3 | 3252.4 | 3275.8 | 3337.5 | 3437.4 | 3579.2  | 3792.6  | 4094.8  | 4129.3  | 4484.6  | 4387.1  |
| 20°   | 3261.0 | 3270.9 | 3272.2 | 3304.2 | 3372.1 | 3491.7  | 3694.0  | 3990.0  | 4034.4  | 4472.3  | 4409.3  |
| 22.5° | 3373.3 | 3374.5 | 3359.7 | 3344.9 | 3368.4 | 3454.7  | 3633.5  | 3923.4  | 3969.0  | 4469.8  | 4435.2  |
| 25°   | 3541.0 | 3544.7 | 3520.1 | 3468.2 | 3421.4 | 3465.8  | 3620.0  | 3880.2  | 3920.9  | 4463.6  | 4451.3  |
| 27.5° | 3772.9 | 3771.6 | 3764.3 | 3677.9 | 3544.7 | 3515.1  | 3631.1  | 3856.7  | 3891.3  | 4446.3  | 4457.5  |
| 30°   | 4097.3 | 4087.4 | 4071.4 | 3974.0 | 3770.5 | 3634.8  | 3677.9  | 3841.9  | 3874.0  | 4421.7  | 4441.4  |
| 32.5° | 4416.7 | 4453.7 | 4451.3 | 4358.7 | 4104.6 | 3848.1  | 3775.4  | 3861.7  | 3885.2  | 4405.6  | 4417.9  |
| 35°   | 4789.2 | 4788.0 | 4882.9 | 4848.4 | 4551.2 | 4120.7  | 3941.9  | 3927.1  | 3945.5  | 4416.7  | 4406.9  |
| 37.5° | 5134.5 | 5166.6 | 5314.6 | 5350.4 | 5079.0 | 4505.5  | 4177.5  | 4067.7  | 4073.9  | 4492.0  | 4434.0  |
| 40°   | 5565.0 | 5626.6 | 5847.4 | 5967.1 | 5727.8 | 5076.6  | 4525.3  | 4325.4  | 4326.7  | 4676.9  | 4536.4  |
| 42.5° | 6120.0 | 6217.5 | 6423.4 | 6623.2 | 6495.0 | 5752.5  | 5047.0  | 4733.7  | 4731.2  | 5002.6  | 4770.7  |
| 45°   | 6794.6 | 6862.5 | 7096.9 | 7413.8 | 7332.4 | 6696.0  | 5806.7  | 5366.4  | 5334.3  | 5536.6  | 5186.4  |
| 47.5° | 7376.8 | 7469.4 | 7707.4 | 8068.7 | 8438.8 | 7848.0  | 6714.5  | 6236.0  | 6215.0  | 6386.5  | 5899.3  |
| 50°   | 7630.9 | 7712.3 | 7962.7 | 8469.6 | 9366.2 | 9360.1  | 8066.3  | 7505.1  | 7469.4  | 7561.8  | 7001.9  |
| 52.5° | 7352.1 | 7428.6 | 7681.5 | 8313.0 | 9802.8 | 11202.8 | 10024.9 | 9097.4  | 9054.2  | 8935.8  | 8319.1  |
| 55°   | 6397.5 | 6460.5 | 6834.2 | 7559.4 | 9635.1 | 12431.2 | 12723.5 | 11064.7 | 10896.9 | 10436.8 | 9810.3  |
| 57.5° | 5093.9 | 5061.8 | 5293.6 | 6136.1 | 8650.9 | 12843.2 | 15493.7 | 13515.4 | 13215.6 | 11734.4 | 11072.0 |
| 60°   | 3529.9 | 3628.6 | 3722.3 | 4277.4 | 6504.9 | 12129.1 | 17216.7 | 16596.3 | 16201.6 | 13010.9 | 12280.7 |
| 62.5° | 2595.0 | 2660.4 | 2722.1 | 2978.6 | 4089.8 | 9684.5  | 17521.3 | 19761.2 | 19410.9 | 14366.4 | 13433.9 |
| 65°   | 2052.3 | 2057.3 | 2081.9 | 2334.7 | 2694.9 | 6297.6  | 16057.4 | 21545.9 | 21455.8 | 15671.3 | 13901.4 |
| 66°   | 1869.8 | 1871.1 | 1909.3 | 2180.6 | 2418.7 | 5128.4  | 14884.4 | 21681.5 | 21730.8 | 15984.6 | 13764.5 |
| 67.5° | 1634.2 | 1629.3 | 1684.8 | 1959.8 | 2202.8 | 3697.6  | 12785.2 | 21131.4 | 21423.7 | 16225.1 | 13272.4 |
| 70°   | 1266.7 | 1260.5 | 1328.4 | 1644.1 | 2028.9 | 2466.8  | 8498.0  | 18144.2 | 18615.4 | 15733.0 | 11743.0 |
| 72.5° | 843.6  | 848.5  | 964.5  | 1297.5 | 1936.4 | 2172.0  | 5112.4  | 13802.7 | 14468.7 | 12992.4 | 9238.0  |
| 75°   | 492.1  | 500.7  | 632.7  | 964.5  | 1681.1 | 2070.9  | 2893.5  | 9842.3  | 10267.9 | 8971.6  | 5755.0  |
| 77.5° | 257.8  | 261.4  | 354.0  | 636.4  | 1288.9 | 1922.8  | 1927.7  | 6287.7  | 6487.5  | 4360.0  | 2278.1  |
| 80°   | 136.9  | 133.2  | 190.0  | 383.6  | 886.8  | 1688.5  | 1563.9  | 3328.8  | 3460.9  | 1295.1  | 576.0   |
| 82.5° | 51.8   | 56.8   | 101.2  | 251.6  | 524.2  | 1212.4  | 1346.8  | 1471.4  | 1425.8  | 284.9   | 241.7   |
| 85°   | 9.9    | 12.4   | 43.1   | 149.2  | 263.9  | 506.9   | 992.8   | 721.5   | 668.5   | 107.3   | 139.4   |
| 87.5° | 1.3    | 2.5    | 12.4   | 35.8   | 38.2   | 171.5   | 293.5   | 199.8   | 172.7   | 39.5    | 57.9    |
| 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°    | 4330.4  | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 | 4330.4 |
| 2.5°  | 4332.9  | 4299.5 | 4188.6 | 4078.8 | 3966.5 | 3865.4 | 3796.3 | 3684.1 | 3655.7 | 3615.0 | 3591.6 |
| 5°    | 4324.2  | 4246.5 | 4033.2 | 3800.1 | 3582.9 | 3348.7 | 3169.7 | 2997.1 | 2904.6 | 2857.7 | 2840.5 |
| 7.5°  | 4299.5  | 4176.2 | 3843.2 | 3478.1 | 3130.3 | 2780.0 | 2475.4 | 2243.5 | 2094.3 | 1991.9 | 1922.8 |
| 10°   | 4250.2  | 4080.0 | 3622.4 | 3120.4 | 2595.0 | 2132.5 | 1746.5 | 1452.9 | 1225.9 | 1154.5 | 1156.9 |
| 12.5° | 4199.6  | 3972.7 | 3375.7 | 2723.3 | 2072.1 | 1488.7 | 1079.2 | 847.4  | 738.8  | 703.1  | 695.6  |
| 15°   | 4152.8  | 3870.4 | 3134.0 | 2338.5 | 1543.0 | 964.5  | 695.6  | 614.2  | 584.6  | 578.5  | 577.2  |
| 17.5° | 4128.1  | 3775.4 | 2876.3 | 1898.1 | 1076.7 | 654.9  | 557.5  | 535.3  | 526.6  | 520.5  | 518.0  |
| 20°   | 4107.1  | 3692.7 | 2629.5 | 1486.2 | 736.3  | 536.5  | 499.6  | 478.6  | 463.8  | 457.6  | 453.9  |
| 22.5° | 4092.3  | 3607.6 | 2374.2 | 1150.8 | 563.7  | 476.1  | 442.8  | 415.6  | 394.7  | 387.3  | 382.3  |
| 25°   | 4070.1  | 3513.9 | 2116.4 | 841.2  | 474.8  | 423.1  | 384.8  | 352.7  | 325.6  | 312.0  | 309.6  |
| 27.5° | 4038.1  | 3407.9 | 1834.0 | 622.9  | 424.3  | 376.2  | 329.3  | 289.9  | 262.7  | 247.9  | 249.2  |
| 30°   | 3986.3  | 3296.8 | 1551.6 | 494.6  | 383.6  | 328.1  | 277.5  | 239.3  | 213.4  | 202.2  | 201.1  |
| 32.5° | 3924.6  | 3162.4 | 1292.6 | 424.3  | 346.6  | 284.9  | 231.8  | 198.6  | 178.8  | 170.2  | 169.0  |
| 35°   | 3866.6  | 3026.7 | 1028.6 | 381.1  | 308.3  | 245.5  | 194.9  | 166.5  | 151.7  | 144.3  | 145.6  |
| 37.5° | 3834.6  | 2905.9 | 801.7  | 346.6  | 277.5  | 210.9  | 167.7  | 143.1  | 129.5  | 123.3  | 122.1  |
| 40°   | 3855.6  | 2807.1 | 637.7  | 315.7  | 243.0  | 181.3  | 144.3  | 123.3  | 109.8  | 101.2  | 101.2  |
| 42.5° | 3954.2  | 2764.0 | 514.4  | 286.1  | 210.9  | 156.6  | 125.8  | 106.1  | 91.3   | 82.6   | 83.9   |
| 45°   | 4255.1  | 2809.6 | 430.4  | 259.0  | 181.3  | 135.7  | 108.5  | 87.5   | 74.0   | 67.8   | 66.6   |
| 47.5° | 4754.7  | 2981.0 | 372.5  | 230.7  | 155.4  | 116.0  | 91.3   | 72.7   | 59.2   | 54.3   | 53.0   |
| 50°   | 5627.9  | 3335.0 | 329.3  | 202.2  | 131.9  | 98.7   | 75.2   | 57.9   | 46.9   | 42.0   | 42.0   |
| 52.5° | 6829.2  | 4107.1 | 298.5  | 170.2  | 111.0  | 83.9   | 61.7   | 46.9   | 37.0   | 33.3   | 32.1   |
| 55°   | 8084.8  | 4921.2 | 282.4  | 143.1  | 92.5   | 69.1   | 49.3   | 37.0   | 28.3   | 24.7   | 23.4   |
| 57.5° | 9292.3  | 5560.1 | 263.9  | 116.0  | 74.0   | 53.0   | 38.2   | 28.3   | 19.7   | 17.3   | 16.1   |
| 60°   | 10450.4 | 6076.9 | 224.5  | 92.5   | 57.9   | 38.2   | 28.3   | 19.7   | 13.5   | 11.1   | 11.1   |
| 62.5° | 11486.5 | 6377.8 | 176.4  | 74.0   | 44.4   | 27.2   | 18.5   | 14.8   | 9.9    | 7.4    | 7.4    |
| 65°   | 11607.3 | 5986.8 | 133.2  | 56.8   | 32.1   | 17.3   | 11.1   | 11.1   | 7.4    | 4.9    | 4.9    |
| 66°   | 11364.3 | 5655.1 | 117.1  | 51.8   | 28.3   | 14.8   | 9.9    | 8.6    | 6.2    | 3.7    | 3.7    |
| 67.5° | 10821.7 | 5089.0 | 101.2  | 44.4   | 23.4   | 11.1   | 7.4    | 7.4    | 4.9    | 2.5    | 2.5    |
| 70°   | 9350.2  | 4156.5 | 80.2   | 33.3   | 17.3   | 8.6    | 4.9    | 4.9    | 3.7    | 2.5    | 2.5    |
| 72.5° | 7126.5  | 3103.2 | 65.4   | 24.7   | 12.4   | 6.2    | 3.7    | 3.7    | 3.7    | 2.5    | 2.5    |
| 75°   | 4298.4  | 1671.2 | 50.6   | 18.5   | 11.1   | 4.9    | 2.5    | 3.7    | 4.9    | 3.7    | 2.5    |
| 77.5° | 1583.6  | 568.6  | 39.5   | 14.8   | 8.6    | 4.9    | 2.5    | 2.5    | 4.9    | 3.7    | 3.7    |
| 80°   | 388.5   | 148.0  | 28.3   | 12.4   | 8.6    | 4.9    | 2.5    | 2.5    | 4.9    | 4.9    | 4.9    |
| 82.5° | 180.1   | 62.9   | 19.7   | 11.1   | 8.6    | 4.9    | 2.5    | 2.5    | 3.7    | 4.9    | 4.9    |
| 85°   | 103.6   | 29.6   | 16.1   | 12.4   | 8.6    | 4.9    | 2.5    | 2.5    | 3.7    | 4.9    | 4.9    |
| 87.5° | 42.0    | 14.8   | 14.8   | 12.4   | 9.9    | 6.2    | 2.5    | 2.5    | 2.5    | 3.7    | 3.7    |
| 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)