

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: P650570

Luminaire Tested: **GLAN-SA8B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30493.9 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

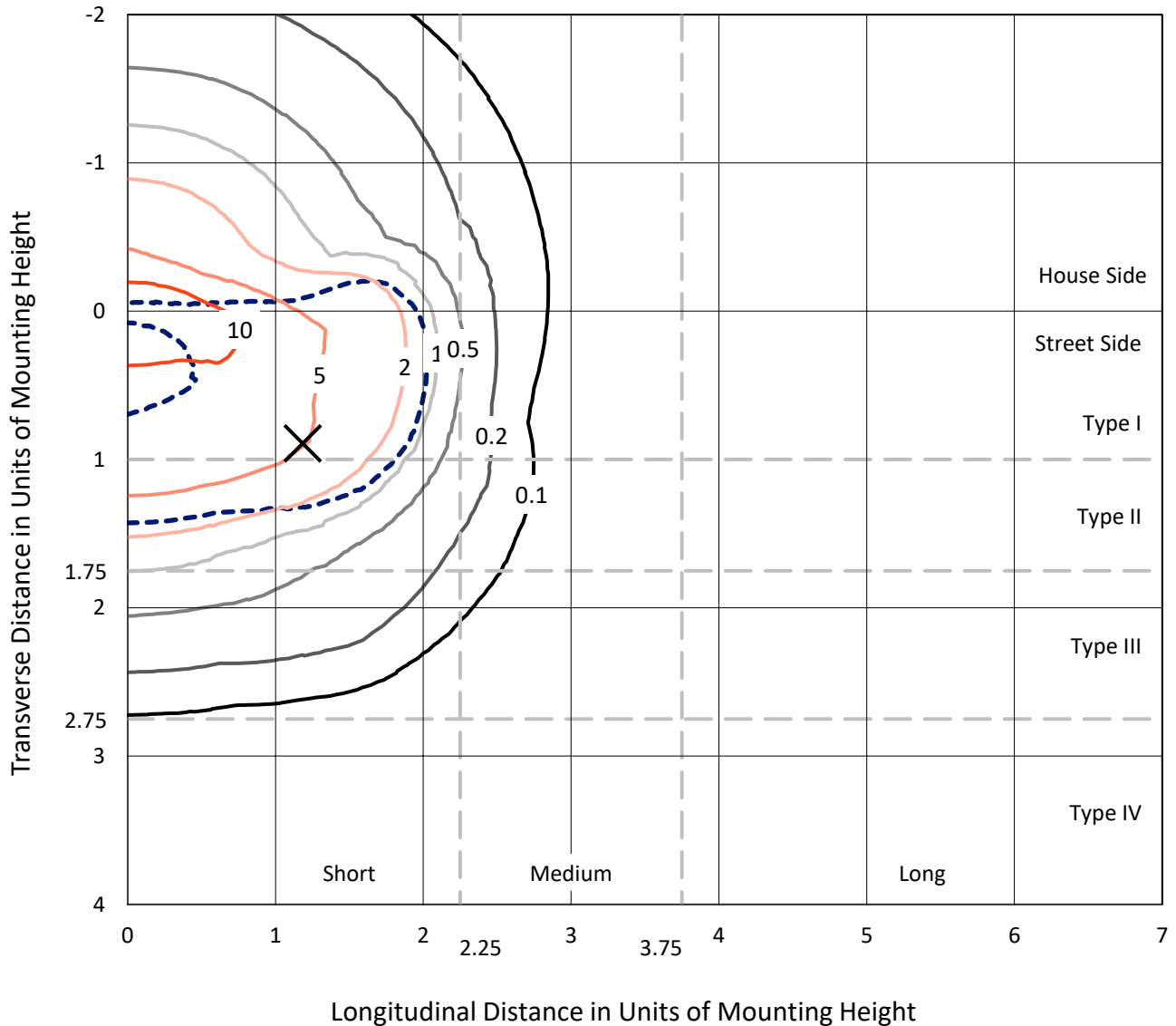
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

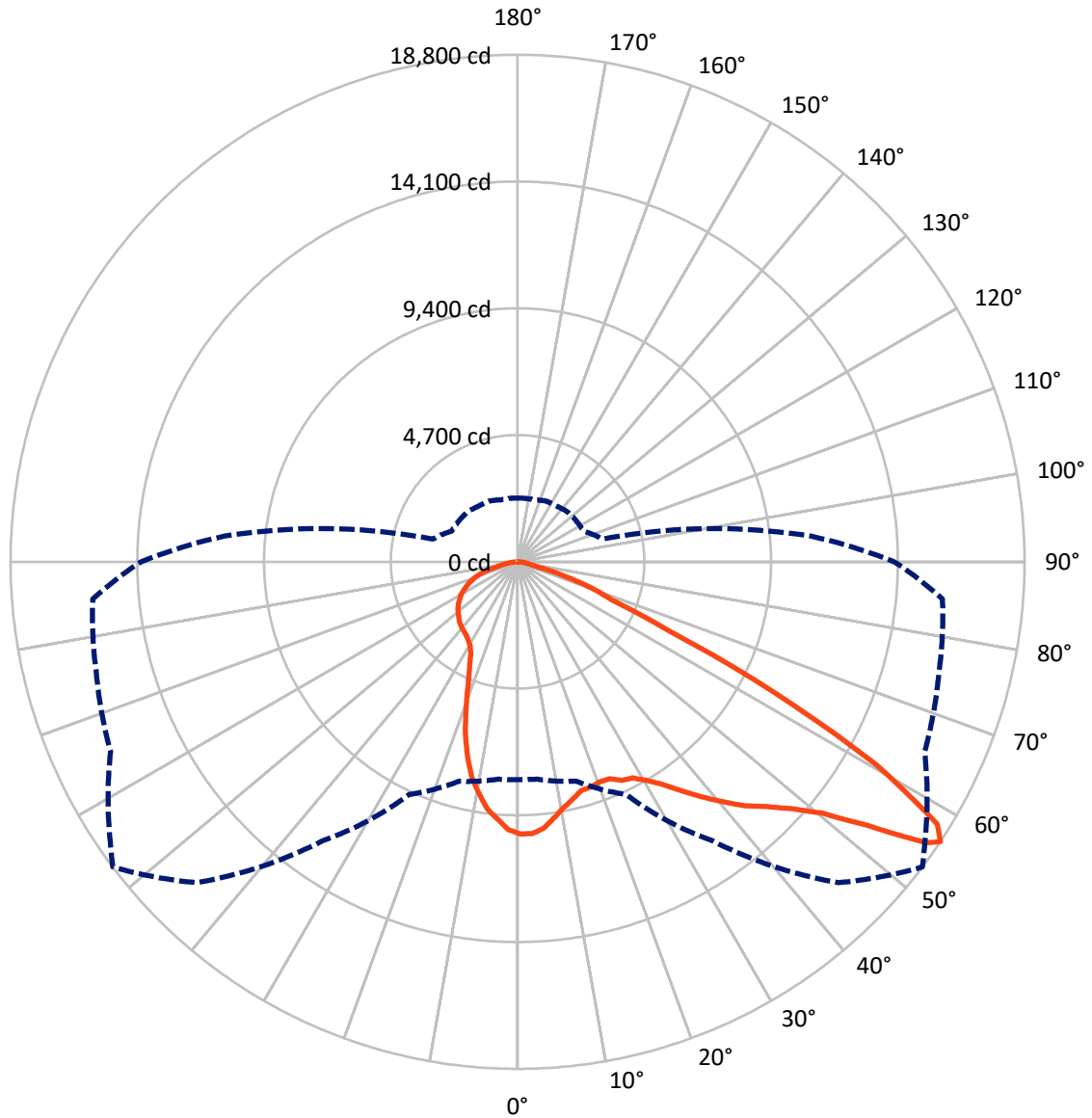
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8898.8   | 0.0    | 8898.8  |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 21595.1  | 0.0    | 21595.1 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 30493.9  | 0.0    | 30493.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 893.1   | 2.9       |
| 10°-20°   | 2230.6  | 7.3       |
| 20°-30°   | 3289.3  | 10.8      |
| 30°-40°   | 4699.8  | 15.4      |
| 40°-50°   | 6468.6  | 21.2      |
| 50°-60°   | 7644.1  | 25.1      |
| 60°-70°   | 4073.8  | 13.4      |
| 70°-80°   | 1033.5  | 3.4       |
| 80°-90°   | 161.2   | 0.5       |
| 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°    | 30493.9 | 100.0     |
| 0°-180°   | 30493.9 | 100.0     |

**Coefficient of Utilization**



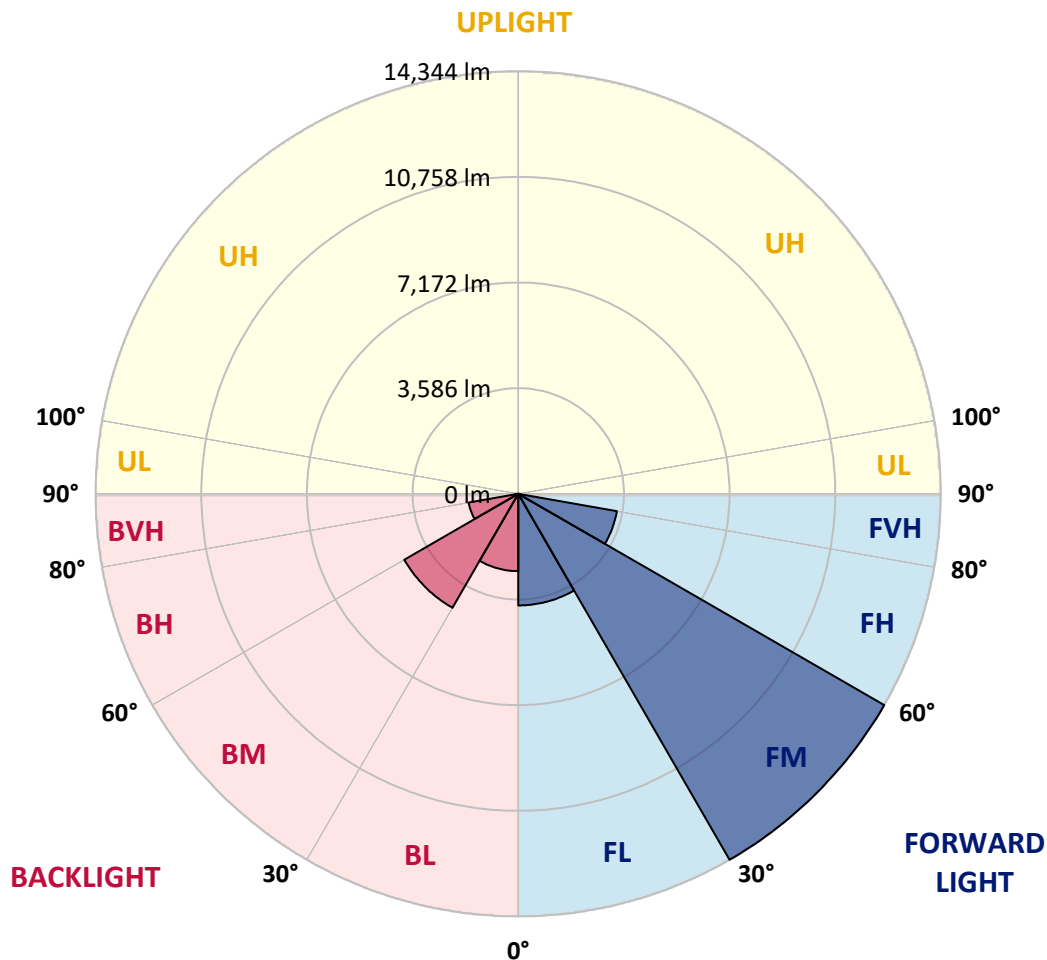
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3788.4  | 12.4      |                         |      |         |
| FM (30°-60°)   | 14343.8 | 47.0      |                         |      |         |
| FH (60°-80°)   | 3398.2  | 11.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 64.8    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2624.6  | 8.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 4468.7  | 14.7      | B3/5000                 |      |         |
| BH (60°-80°)   | 1709.1  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 96.4    | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 |
| 2.5°  | 9963.4  | 9877.4  | 9928.2  | 9908.6  | 10069.1 | 10116.0 | 10092.5 | 10112.1 | 10202.0 | 10159.0 | 10069.1 |
| 5°    | 9310.1  | 9431.4  | 9454.9  | 9513.5  | 9607.4  | 9791.3  | 9936.0  | 9975.2  | 10018.2 | 10217.7 | 10198.1 |
| 7.5°  | 8715.6  | 8797.7  | 8754.6  | 8926.7  | 9130.2  | 9427.5  | 9603.5  | 9634.8  | 10029.9 | 10139.5 | 10221.6 |
| 10°   | 8340.0  | 8257.8  | 8453.4  | 8500.4  | 8731.2  | 9071.5  | 9282.8  | 9411.8  | 9771.8  | 10205.9 | 10256.8 |
| 12.5° | 7991.8  | 7964.4  | 8081.8  | 8214.8  | 8473.0  | 8825.1  | 9040.2  | 9091.1  | 9646.6  | 10104.2 | 10342.9 |
| 15°   | 7733.7  | 7702.4  | 7819.7  | 7917.5  | 8218.8  | 8531.7  | 8805.5  | 8950.2  | 9509.6  | 10045.6 | 10268.6 |
| 17.5° | 7530.3  | 7526.4  | 7592.8  | 7768.8  | 8077.9  | 8340.0  | 8782.0  | 8789.9  | 9439.2  | 10135.5 | 10331.1 |
| 20°   | 7518.5  | 7514.6  | 7526.4  | 7721.9  | 8003.6  | 8324.4  | 8707.7  | 8778.1  | 9439.2  | 10073.0 | 10335.1 |
| 22.5° | 7616.3  | 7553.8  | 7624.1  | 7749.4  | 7952.8  | 8351.7  | 8735.1  | 8891.6  | 9666.1  | 10382.0 | 10511.1 |
| 25°   | 7772.8  | 7788.4  | 7827.6  | 7870.6  | 7987.9  | 8414.4  | 8977.6  | 9106.8  | 9932.1  | 10648.0 | 10753.6 |
| 27.5° | 8058.3  | 8050.6  | 8066.2  | 8089.6  | 8191.4  | 8473.0  | 9075.4  | 9407.9  | 10487.6 | 11121.3 | 11015.7 |
| 30°   | 8476.9  | 8449.5  | 8512.1  | 8594.3  | 8500.4  | 8660.8  | 9400.1  | 9650.5  | 11004.0 | 11598.6 | 11309.1 |
| 32.5° | 8856.4  | 8958.1  | 9075.4  | 9110.7  | 8997.2  | 9028.5  | 9830.4  | 10084.6 | 11434.2 | 12185.4 | 11669.0 |
| 35°   | 9329.7  | 9411.8  | 9568.3  | 9677.9  | 9658.3  | 9564.4  | 10417.2 | 10753.6 | 12056.2 | 12615.6 | 12048.4 |
| 37.5° | 9791.3  | 9889.1  | 10147.3 | 10471.9 | 10292.0 | 10249.0 | 11043.1 | 11320.8 | 12247.9 | 12846.4 | 12326.1 |
| 40°   | 10534.6 | 10530.6 | 10976.6 | 11144.8 | 11305.2 | 11230.9 | 11692.5 | 11786.3 | 12349.6 | 12795.6 | 12334.0 |
| 42.5° | 11406.9 | 11352.1 | 11805.9 | 12068.0 | 12275.3 | 12283.2 | 12369.2 | 12337.9 | 12396.5 | 12537.4 | 12251.8 |
| 45°   | 12236.2 | 12353.5 | 12811.2 | 13280.6 | 13488.0 | 13511.4 | 12940.3 | 12881.6 | 12478.7 | 12463.1 | 12095.4 |
| 47.5° | 13249.4 | 13276.7 | 13652.2 | 14270.3 | 14751.5 | 14587.2 | 13679.6 | 13550.6 | 12838.6 | 12959.9 | 12357.5 |
| 50°   | 13308.0 | 13511.4 | 13847.8 | 14575.5 | 16054.2 | 16011.1 | 14638.0 | 14395.5 | 13417.6 | 13664.0 | 13088.9 |
| 52.5° | 12079.7 | 12032.8 | 12431.8 | 13621.0 | 15956.4 | 17427.2 | 16226.3 | 15647.3 | 14661.5 | 14473.8 | 14274.2 |
| 55°   | 9204.6  | 9314.0  | 9666.1  | 10867.0 | 13855.7 | 17446.7 | 18389.5 | 17916.1 | 15991.5 | 15670.8 | 15440.0 |
| 56°   | 8074.0  | 8089.6  | 8422.2  | 9517.4  | 12643.0 | 16824.8 | 18800.2 | 18416.9 | 16652.6 | 16163.6 | 15811.6 |
| 57.5° | 6693.2  | 6603.2  | 6775.3  | 7373.8  | 10671.4 | 15510.4 | 18350.4 | 18725.9 | 17427.2 | 16695.7 | 16206.7 |
| 60°   | 5269.2  | 5249.7  | 5179.2  | 5288.8  | 6744.0  | 11684.6 | 15275.7 | 16120.6 | 17348.9 | 16194.9 | 15522.1 |
| 62.5° | 4303.0  | 4205.2  | 4346.0  | 4502.5  | 4686.3  | 7248.6  | 10734.1 | 11230.9 | 13773.5 | 12928.6 | 11661.1 |
| 65°   | 3336.8  | 3289.9  | 3465.9  | 3974.4  | 4084.0  | 4604.2  | 6114.2  | 6497.6  | 8132.7  | 7987.9  | 7033.5  |
| 67.5° | 2296.2  | 2304.1  | 2456.7  | 3231.2  | 3786.7  | 3739.7  | 3743.6  | 3943.1  | 4244.3  | 3152.9  | 2746.1  |
| 70°   | 1455.2  | 1451.3  | 1533.4  | 2081.1  | 3047.3  | 3078.6  | 2922.2  | 2863.4  | 2714.8  | 1643.0  | 1740.8  |
| 72.5° | 934.9   | 907.6   | 950.6   | 1150.1  | 1576.5  | 1822.9  | 1877.7  | 1912.9  | 1572.6  | 1290.9  | 1400.4  |
| 75°   | 528.1   | 500.7   | 485.1   | 535.9   | 622.0   | 719.8   | 790.2   | 813.7   | 911.5   | 978.0   | 1036.6  |
| 77.5° | 160.4   | 144.7   | 176.0   | 234.7   | 309.1   | 414.7   | 504.6   | 520.3   | 614.2   | 692.4   | 751.1   |
| 80°   | 70.4    | 78.2    | 109.5   | 156.4   | 219.1   | 293.4   | 356.0   | 379.4   | 442.0   | 500.7   | 516.4   |
| 82.5° | 43.1    | 47.0    | 74.3    | 105.6   | 152.5   | 207.3   | 254.2   | 262.1   | 324.7   | 371.6   | 383.4   |
| 85°   | 15.7    | 19.6    | 39.2    | 62.6    | 97.8    | 133.0   | 133.0   | 144.7   | 133.0   | 133.0   | 144.7   |
| 87.5° | 0.0     | 0.0     | 3.9     | 7.8     | 7.8     | 11.7    | 15.7    | 15.7    | 19.6    | 23.5    | 27.4    |
| 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°    | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 | 10088.6 |
| 2.5°  | 10116.0 | 10096.4 | 10065.2 | 9951.7  | 9940.0  | 9904.7  | 9709.1  | 9677.9  | 9709.1  | 9615.2  | 9623.1  |
| 5°    | 10096.4 | 10155.1 | 9920.4  | 9806.9  | 9595.7  | 9443.1  | 9267.1  | 9177.2  | 9016.8  | 8915.1  | 9028.5  |
| 7.5°  | 10182.4 | 10159.0 | 9865.6  | 9619.2  | 9302.4  | 8915.1  | 8606.0  | 8430.0  | 8148.4  | 8070.1  | 8128.8  |
| 10°   | 10151.2 | 10026.0 | 9681.8  | 9357.1  | 8758.6  | 8418.3  | 7917.5  | 7432.5  | 7166.5  | 7029.5  | 7010.0  |
| 12.5° | 10108.1 | 10073.0 | 9497.9  | 8938.5  | 8308.7  | 7592.8  | 6888.8  | 6431.0  | 5996.8  | 5809.1  | 5836.4  |
| 15°   | 10159.0 | 9861.7  | 9153.7  | 8445.6  | 7608.5  | 6669.7  | 5910.8  | 5320.1  | 5018.9  | 4897.6  | 4897.6  |
| 17.5° | 10135.5 | 9760.0  | 8989.4  | 7894.0  | 6833.9  | 5723.0  | 4889.8  | 4533.8  | 4408.6  | 4408.6  | 4443.8  |
| 20°   | 10147.3 | 9826.5  | 8656.8  | 7342.5  | 5918.6  | 4819.4  | 4213.0  | 4084.0  | 4138.7  | 4158.3  | 4177.9  |
| 22.5° | 10213.8 | 9607.4  | 8332.2  | 6736.1  | 5069.7  | 4123.0  | 3825.7  | 3829.7  | 3927.4  | 4033.1  | 4013.5  |
| 25°   | 10295.9 | 9521.4  | 7937.1  | 6133.7  | 4420.3  | 3782.8  | 3688.9  | 3677.1  | 3751.4  | 3806.2  | 3814.0  |
| 27.5° | 10225.5 | 9372.7  | 7534.2  | 5382.7  | 3888.4  | 3555.8  | 3536.3  | 3544.1  | 3567.6  | 3677.1  | 3641.9  |
| 30°   | 10456.3 | 9415.7  | 7029.5  | 4752.9  | 3595.0  | 3481.5  | 3458.0  | 3446.3  | 3481.5  | 3512.9  | 3485.4  |
| 32.5° | 10741.9 | 9263.2  | 6654.0  | 4146.5  | 3450.2  | 3426.7  | 3379.8  | 3364.2  | 3383.7  | 3352.4  | 3368.1  |
| 35°   | 10867.0 | 9235.8  | 6165.0  | 3712.4  | 3336.8  | 3317.3  | 3289.9  | 3285.9  | 3289.9  | 3262.4  | 3239.0  |
| 37.5° | 10937.5 | 9364.9  | 5605.7  | 3512.9  | 3266.4  | 3285.9  | 3223.4  | 3215.5  | 3145.1  | 3160.7  | 3172.5  |
| 40°   | 11058.7 | 9165.4  | 5151.9  | 3321.2  | 3223.4  | 3184.2  | 3129.5  | 3117.7  | 3070.8  | 3043.4  | 3070.8  |
| 42.5° | 10882.7 | 9106.8  | 4705.9  | 3239.0  | 3160.7  | 3117.7  | 3078.6  | 3012.1  | 2996.5  | 2973.0  | 2957.3  |
| 45°   | 10741.9 | 8770.3  | 4306.9  | 3137.2  | 3086.4  | 3062.9  | 2988.6  | 2918.2  | 2859.5  | 2883.0  | 2847.8  |
| 47.5° | 10847.5 | 8652.9  | 3911.8  | 3051.2  | 2984.7  | 2957.3  | 2883.0  | 2828.3  | 2769.5  | 2742.2  | 2734.4  |
| 50°   | 11270.0 | 8872.0  | 3579.3  | 2988.6  | 2898.7  | 2883.0  | 2785.2  | 2722.6  | 2667.8  | 2648.3  | 2656.1  |
| 52.5° | 12279.2 | 9470.5  | 3352.4  | 2859.5  | 2816.5  | 2746.1  | 2691.3  | 2613.1  | 2577.9  | 2515.3  | 2554.5  |
| 55°   | 13558.3 | 10444.6 | 3293.8  | 2738.3  | 2714.8  | 2652.3  | 2577.9  | 2519.2  | 2452.7  | 2401.9  | 2390.1  |
| 56°   | 13969.1 | 10910.1 | 3246.8  | 2691.3  | 2652.3  | 2617.0  | 2519.2  | 2484.0  | 2378.4  | 2366.6  | 2358.9  |
| 57.5° | 14301.7 | 11320.8 | 3254.6  | 2601.4  | 2562.2  | 2531.0  | 2472.2  | 2386.2  | 2315.8  | 2272.7  | 2292.3  |
| 60°   | 13550.6 | 10597.1 | 3106.0  | 2464.4  | 2456.7  | 2397.9  | 2315.8  | 2276.7  | 2190.6  | 2139.8  | 2128.0  |
| 62.5° | 10073.0 | 7193.8  | 2519.2  | 2288.4  | 2284.5  | 2221.9  | 2128.0  | 2085.0  | 2069.4  | 1998.9  | 1998.9  |
| 65°   | 5801.2  | 4510.3  | 2178.9  | 2143.7  | 2112.4  | 2049.8  | 1955.9  | 1920.7  | 1881.5  | 1858.1  | 1838.6  |
| 67.5° | 2476.2  | 2339.3  | 1979.3  | 1975.5  | 1940.3  | 1862.1  | 1768.2  | 1713.4  | 1662.5  | 1615.6  | 1639.1  |
| 70°   | 1795.5  | 1822.9  | 1787.7  | 1768.2  | 1725.1  | 1627.3  | 1545.2  | 1478.7  | 1400.4  | 1369.2  | 1392.6  |
| 72.5° | 1423.9  | 1482.6  | 1533.4  | 1537.3  | 1486.5  | 1373.1  | 1283.1  | 1193.1  | 1107.1  | 1064.0  | 1083.6  |
| 75°   | 1079.7  | 1118.8  | 1169.6  | 1181.4  | 1107.1  | 1028.8  | 942.7   | 848.9   | 782.4   | 731.5   | 739.3   |
| 77.5° | 778.5   | 770.6   | 817.6   | 809.8   | 774.5   | 719.8   | 641.5   | 555.5   | 481.2   | 434.2   | 438.1   |
| 80°   | 532.0   | 543.7   | 571.1   | 567.2   | 524.2   | 489.0   | 430.3   | 359.9   | 305.1   | 266.0   | 258.2   |
| 82.5° | 371.6   | 391.2   | 414.7   | 395.1   | 359.9   | 324.7   | 281.6   | 230.8   | 187.8   | 156.4   | 148.6   |
| 85°   | 133.0   | 152.5   | 176.0   | 187.8   | 199.5   | 191.7   | 160.4   | 129.1   | 93.9    | 78.2    | 74.3    |
| 87.5° | 27.4    | 31.3    | 35.2    | 35.2    | 35.2    | 31.3    | 27.4    | 27.4    | 23.5    | 11.7    | 11.7    |
| 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)