

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: P456127

Luminaire Tested: **GLAN-SA7B-760-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29098 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

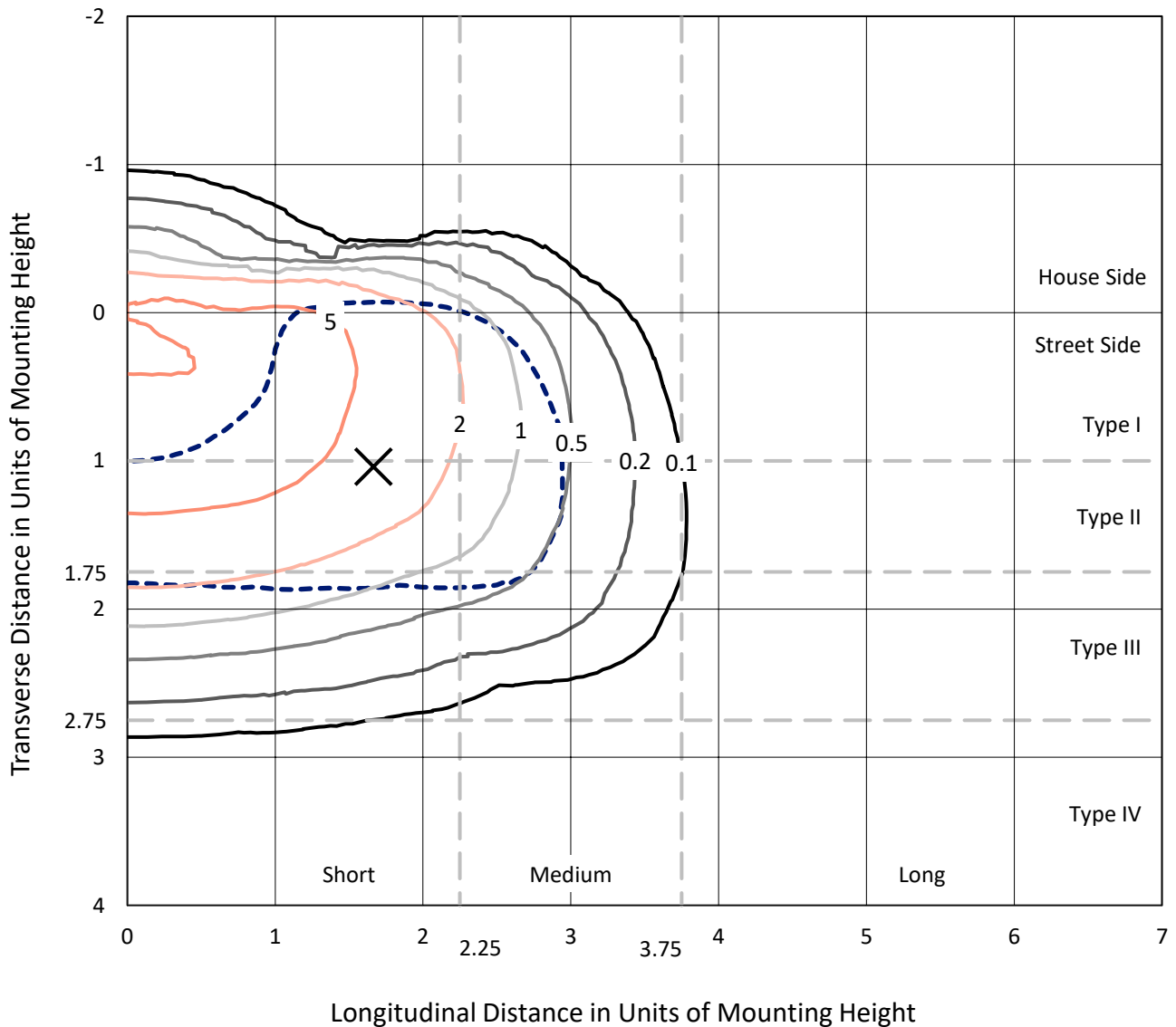




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### Iso-Footcandle Lines of Horizontal Illumination

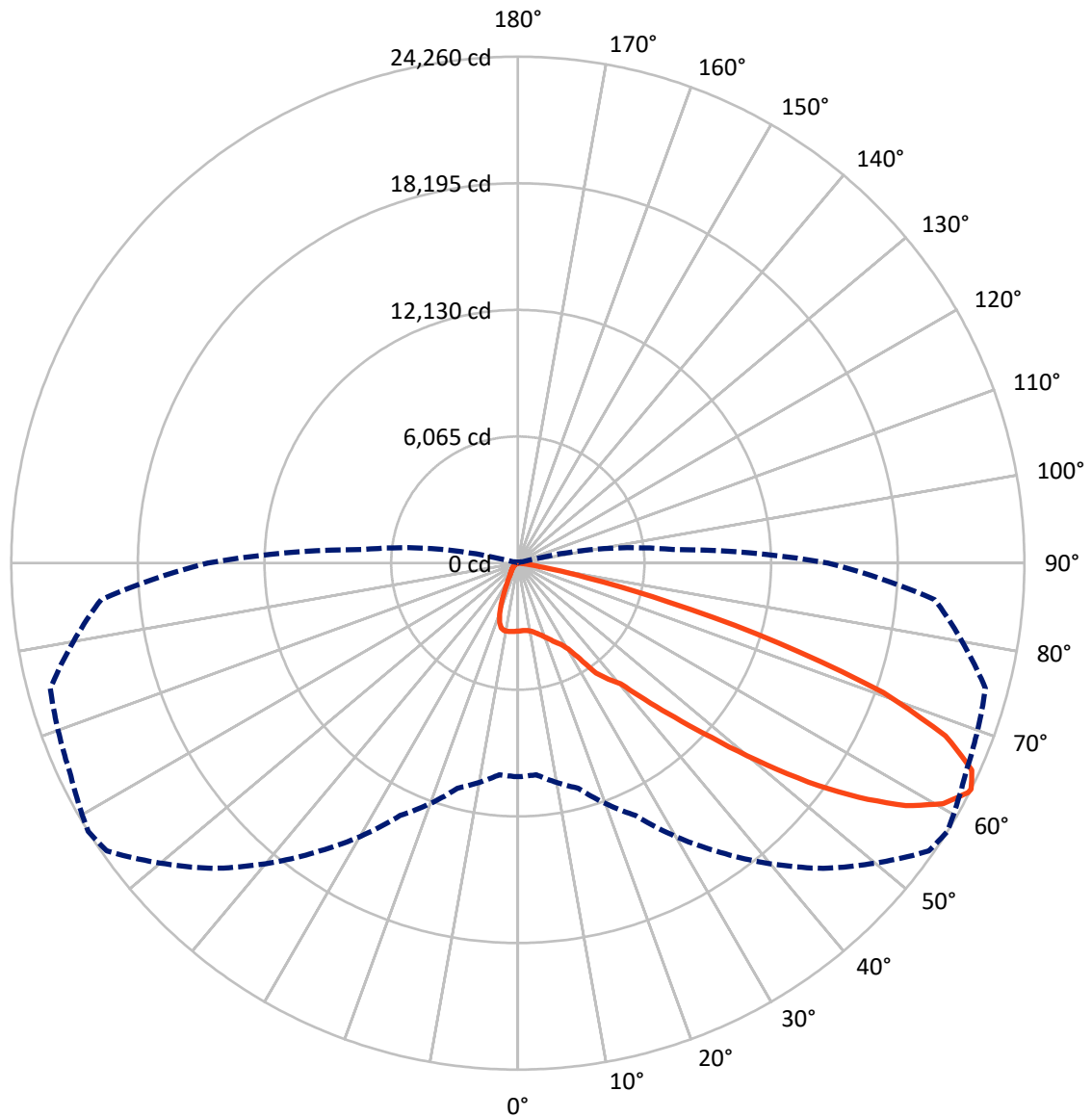
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3012.9   | 0.0    | 3012.9  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 26085.1  | 0.0    | 26085.1 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 29098.0  | 0.0    | 29098.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 305.0   | 1.0       |
| 10°-20°   | 830.6   | 2.9       |
| 20°-30°   | 1441.5  | 5.0       |
| 30°-40°   | 2649.0  | 9.1       |
| 40°-50°   | 4986.7  | 17.1      |
| 50°-60°   | 8529.3  | 29.3      |
| 60°-70°   | 8166.8  | 28.1      |
| 70°-80°   | 2082.6  | 7.2       |
| 80°-90°   | 106.5   | 0.4       |
| 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°    | 29098.0 | 100.0     |
| 0°-180°   | 29098.0 | 100.0     |



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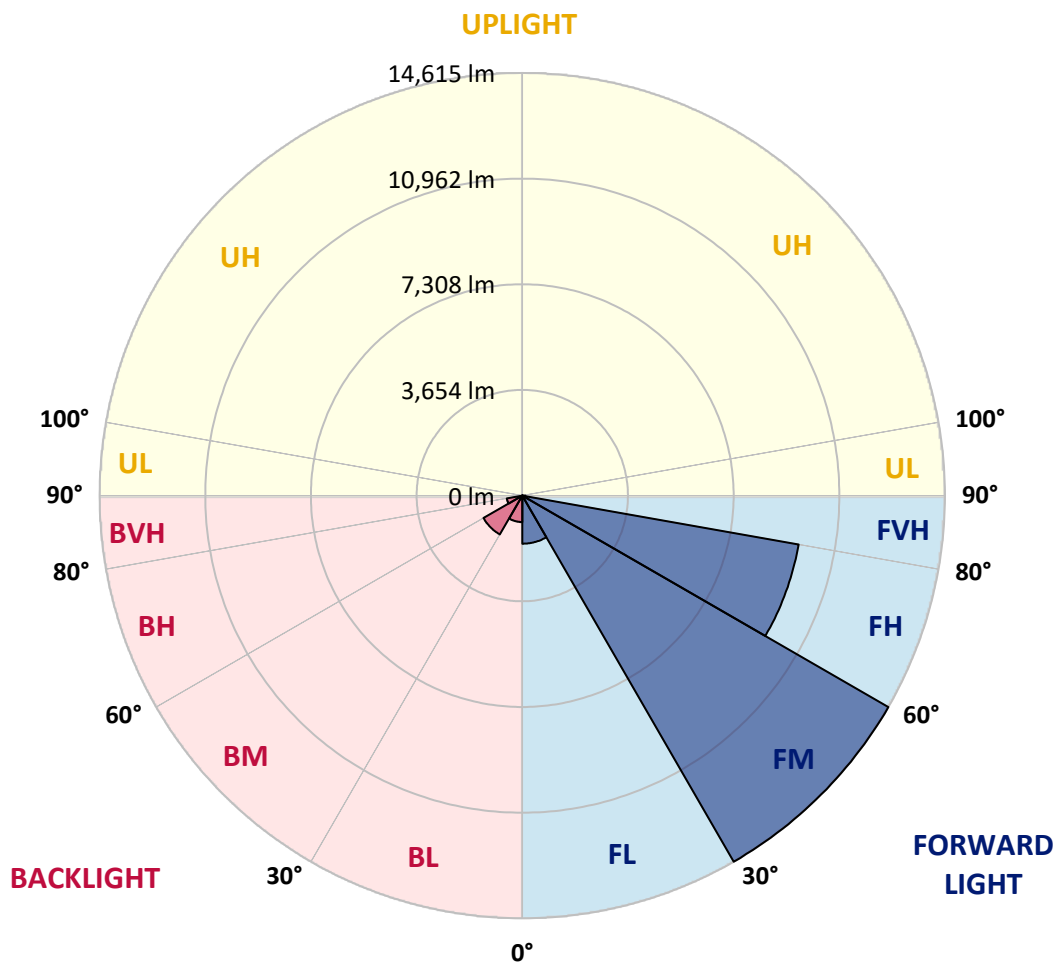
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1663.4  | 5.7       |                         |      |          |
| FM   | (30°-60°)   | 14615.3 | 50.2      |                         |      |          |
| FH   | (60°-80°)   | 9704.0  | 33.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 102.4   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 913.7   | 3.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1549.7  | 5.3       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 545.4   | 1.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 4.1     | 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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  | 3257.6  |
| 2.5°  | 3176.6  | 3187.5  | 3198.5  | 3202.9  | 3218.2  | 3233.5  | 3244.5  | 3242.3  | 3259.8  | 3268.6  | 3268.6  |
| 5°    | 3049.5  | 3049.5  | 3078.0  | 3104.3  | 3148.1  | 3191.9  | 3233.5  | 3242.3  | 3275.2  | 3305.8  | 3316.8  |
| 7.5°  | 2942.2  | 2948.7  | 2970.6  | 3018.8  | 3078.0  | 3154.7  | 3237.9  | 3257.6  | 3314.6  | 3382.5  | 3411.0  |
| 10°   | 2891.8  | 2896.2  | 2924.6  | 2975.0  | 3049.5  | 3154.7  | 3270.8  | 3308.0  | 3395.7  | 3503.0  | 3542.4  |
| 12.5° | 2880.8  | 2887.4  | 2915.9  | 2972.8  | 3058.3  | 3185.3  | 3343.1  | 3382.5  | 3509.6  | 3647.6  | 3706.7  |
| 15°   | 2900.5  | 2904.9  | 2933.4  | 2994.7  | 3088.9  | 3240.1  | 3439.5  | 3494.2  | 3645.4  | 3805.3  | 3882.0  |
| 17.5° | 2970.6  | 2966.3  | 2986.0  | 3036.4  | 3141.5  | 3308.0  | 3555.6  | 3621.3  | 3798.7  | 4017.8  | 4068.2  |
| 20°   | 3268.6  | 3240.1  | 3222.6  | 3178.8  | 3220.4  | 3404.4  | 3695.8  | 3792.2  | 4011.2  | 4234.7  | 4269.8  |
| 22.5° | 3910.5  | 3846.9  | 3722.1  | 3551.2  | 3419.7  | 3535.9  | 3864.5  | 3976.2  | 4258.8  | 4477.9  | 4477.9  |
| 25°   | 4727.6  | 4646.6  | 4521.7  | 4149.3  | 3827.2  | 3752.7  | 4055.1  | 4195.3  | 4528.3  | 4749.5  | 4677.2  |
| 27.5° | 5750.7  | 5687.2  | 5444.0  | 5010.2  | 4517.3  | 4131.7  | 4276.3  | 4405.6  | 4767.1  | 5034.3  | 4883.2  |
| 30°   | 6583.2  | 6552.5  | 6353.2  | 5965.4  | 5422.1  | 4859.1  | 4688.2  | 4773.6  | 5084.7  | 5393.6  | 5238.1  |
| 32.5° | 7286.4  | 7286.4  | 7082.7  | 6721.2  | 6212.9  | 5713.5  | 5387.0  | 5448.4  | 5746.3  | 6103.4  | 5814.2  |
| 35°   | 8059.7  | 8033.5  | 7869.1  | 7525.2  | 6955.6  | 6515.3  | 6381.6  | 6464.9  | 6734.3  | 6999.4  | 6287.4  |
| 37.5° | 8872.5  | 8863.7  | 8692.9  | 8359.9  | 7895.4  | 7341.2  | 7027.9  | 7049.8  | 7187.8  | 7349.9  | 6841.7  |
| 40°   | 9755.4  | 9768.5  | 9545.1  | 9339.1  | 8901.0  | 8333.6  | 7733.3  | 7595.3  | 7724.6  | 8182.4  | 7864.8  |
| 42.5° | 10798.2 | 10767.5 | 10671.1 | 10390.7 | 10038.0 | 9698.4  | 8977.7  | 8927.3  | 9041.2  | 9531.9  | 9188.0  |
| 45°   | 12009.6 | 12053.5 | 11887.0 | 11731.4 | 11494.8 | 11212.2 | 10609.8 | 10522.1 | 10647.0 | 11409.4 | 10920.8 |
| 47.5° | 13223.3 | 13181.7 | 13289.0 | 13260.6 | 13387.6 | 13177.3 | 12645.0 | 12465.3 | 12765.5 | 13488.4 | 12769.8 |
| 50°   | 14147.8 | 14193.8 | 14417.3 | 14743.7 | 15289.2 | 15407.5 | 14897.0 | 14835.7 | 14969.3 | 15433.8 | 14423.8 |
| 52.5° | 14748.1 | 14901.4 | 15251.9 | 16091.0 | 17074.6 | 17839.2 | 17451.5 | 17418.6 | 17363.8 | 17488.7 | 16005.6 |
| 55°   | 15140.2 | 15295.8 | 15753.6 | 16989.2 | 18682.6 | 19924.8 | 19944.5 | 19804.3 | 19442.8 | 19353.0 | 17484.3 |
| 57.5° | 14899.2 | 14929.9 | 15582.7 | 17234.6 | 19574.3 | 21412.3 | 22056.4 | 21916.2 | 21248.0 | 20908.4 | 18790.0 |
| 60°   | 13392.0 | 13455.5 | 14364.7 | 16305.7 | 19186.5 | 21898.7 | 23456.3 | 23392.7 | 22661.0 | 22277.7 | 19806.5 |
| 62.5° | 10721.5 | 10905.5 | 11841.0 | 14005.4 | 17383.5 | 21079.3 | 24023.7 | 24203.3 | 23633.7 | 23105.8 | 20126.3 |
| 63°   | 10230.8 | 10171.6 | 11159.6 | 13335.0 | 16906.0 | 20674.0 | 24032.4 | 24260.3 | 23677.5 | 23184.6 | 20038.7 |
| 65°   | 7573.4  | 7750.8  | 8392.7  | 10515.6 | 14068.9 | 18787.8 | 23491.3 | 23894.4 | 23515.4 | 22836.3 | 19068.2 |
| 67.5° | 4252.2  | 4243.5  | 4953.3  | 6881.1  | 9847.4  | 14737.1 | 21241.4 | 22093.6 | 22014.8 | 20492.2 | 15806.2 |
| 70°   | 2081.2  | 2114.1  | 2405.4  | 3566.5  | 5711.3  | 10167.2 | 17650.8 | 18570.9 | 18599.4 | 16095.4 | 10929.6 |
| 72.5° | 942.0   | 957.4   | 1165.5  | 1737.3  | 2935.6  | 5413.3  | 12163.0 | 13041.5 | 12879.4 | 10257.1 | 6035.5  |
| 75°   | 497.3   | 530.2   | 641.9   | 874.1   | 1415.2  | 2232.4  | 6616.0  | 7466.0  | 7126.5  | 4686.0  | 2221.4  |
| 77.5° | 368.0   | 379.0   | 436.0   | 556.4   | 758.0   | 869.7   | 2854.5  | 3395.7  | 3181.0  | 1695.6  | 736.1   |
| 80°   | 269.5   | 278.2   | 324.2   | 394.3   | 477.6   | 442.5   | 1075.7  | 1233.4  | 1106.3  | 576.2   | 225.6   |
| 82.5° | 164.3   | 166.5   | 236.6   | 293.6   | 300.1   | 247.6   | 354.9   | 381.2   | 398.7   | 324.2   | 122.7   |
| 85°   | 59.2    | 74.5    | 159.9   | 212.5   | 177.5   | 124.9   | 149.0   | 164.3   | 179.6   | 205.9   | 72.3    |
| 87.5° | 6.6     | 8.8     | 76.7    | 103.0   | 50.4    | 46.0    | 54.8    | 61.3    | 65.7    | 76.7    | 35.1    |
| 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°    | 3257.6  | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 | 3257.6 |
| 2.5°  | 3277.4  | 3286.1 | 3279.5 | 3268.6 | 3266.4 | 3259.8 | 3246.7 | 3246.7 | 3246.7 | 3251.1 | 3246.7 |
| 5°    | 3325.5  | 3332.1 | 3316.8 | 3294.9 | 3270.8 | 3240.1 | 3207.2 | 3187.5 | 3185.3 | 3181.0 | 3170.0 |
| 7.5°  | 3417.6  | 3426.3 | 3391.3 | 3338.7 | 3273.0 | 3198.5 | 3128.4 | 3062.7 | 3032.0 | 3007.9 | 3007.9 |
| 10°   | 3551.2  | 3560.0 | 3489.9 | 3395.7 | 3264.2 | 3113.0 | 2946.5 | 2795.4 | 2677.1 | 2622.3 | 2609.2 |
| 12.5° | 3711.1  | 3715.5 | 3599.4 | 3435.1 | 3218.2 | 2926.8 | 2571.9 | 2241.1 | 2011.1 | 1905.9 | 1895.0 |
| 15°   | 3886.4  | 3855.7 | 3702.4 | 3450.4 | 3086.8 | 2543.5 | 1930.0 | 1524.8 | 1286.0 | 1215.9 | 1242.2 |
| 17.5° | 4063.8  | 4006.9 | 3781.2 | 3426.3 | 2791.0 | 1930.0 | 1296.9 | 1040.6 | 966.1  | 946.4  | 946.4  |
| 20°   | 4230.3  | 4151.5 | 3838.2 | 3321.2 | 2278.4 | 1329.8 | 961.7  | 900.4  | 887.3  | 874.1  | 876.3  |
| 22.5° | 4396.8  | 4276.3 | 3888.6 | 3086.8 | 1697.8 | 950.8  | 861.0  | 841.2  | 823.7  | 806.2  | 804.0  |
| 25°   | 4558.9  | 4392.4 | 3908.3 | 2653.0 | 1156.7 | 817.1  | 786.5  | 760.2  | 725.1  | 705.4  | 701.0  |
| 27.5° | 4727.6  | 4532.6 | 3895.1 | 2105.3 | 843.4  | 731.7  | 701.0  | 663.8  | 622.2  | 587.1  | 587.1  |
| 30°   | 5051.9  | 4799.9 | 3849.1 | 1513.8 | 709.8  | 644.1  | 604.6  | 545.5  | 499.5  | 464.4  | 462.2  |
| 32.5° | 5494.4  | 5148.2 | 3691.4 | 1064.7 | 630.9  | 567.4  | 508.3  | 442.5  | 394.3  | 368.0  | 368.0  |
| 35°   | 5888.7  | 5498.8 | 3395.7 | 784.3  | 567.4  | 492.9  | 420.6  | 357.1  | 319.8  | 302.3  | 295.8  |
| 37.5° | 6489.0  | 6011.4 | 2988.2 | 637.5  | 506.1  | 427.2  | 352.7  | 293.6  | 262.9  | 249.7  | 249.7  |
| 40°   | 7389.4  | 6637.9 | 2488.7 | 558.6  | 446.9  | 363.7  | 293.6  | 247.6  | 223.5  | 208.1  | 208.1  |
| 42.5° | 8506.7  | 7404.7 | 1982.6 | 501.7  | 392.1  | 313.3  | 245.4  | 210.3  | 188.4  | 177.5  | 175.3  |
| 45°   | 9913.1  | 8213.1 | 1526.9 | 449.1  | 348.3  | 267.3  | 208.1  | 177.5  | 155.5  | 149.0  | 151.2  |
| 47.5° | 11380.9 | 8925.1 | 1183.0 | 403.1  | 302.3  | 225.6  | 177.5  | 153.4  | 138.0  | 129.3  | 129.3  |
| 50°   | 12634.0 | 9415.8 | 898.2  | 350.5  | 267.3  | 190.6  | 155.5  | 138.0  | 124.9  | 120.5  | 118.3  |
| 52.5° | 13681.2 | 9558.2 | 687.9  | 304.5  | 234.4  | 164.3  | 138.0  | 124.9  | 113.9  | 107.3  | 107.3  |
| 55°   | 14572.8 | 9433.3 | 538.9  | 256.3  | 197.2  | 142.4  | 122.7  | 111.7  | 98.6   | 92.0   | 89.8   |
| 57.5° | 15094.2 | 9032.4 | 411.9  | 212.5  | 159.9  | 118.3  | 107.3  | 94.2   | 78.9   | 67.9   | 67.9   |
| 60°   | 15357.1 | 8449.7 | 315.5  | 175.3  | 122.7  | 94.2   | 87.6   | 70.1   | 54.8   | 46.0   | 43.8   |
| 62.5° | 15041.6 | 7676.4 | 238.8  | 138.0  | 92.0   | 70.1   | 59.2   | 50.4   | 35.1   | 26.3   | 26.3   |
| 63°   | 14846.7 | 7452.9 | 230.0  | 131.4  | 85.4   | 65.7   | 54.8   | 46.0   | 30.7   | 24.1   | 21.9   |
| 65°   | 13534.4 | 6478.0 | 188.4  | 105.2  | 67.9   | 46.0   | 37.2   | 32.9   | 21.9   | 11.0   | 8.8    |
| 67.5° | 10747.8 | 4955.5 | 149.0  | 78.9   | 48.2   | 32.9   | 21.9   | 19.7   | 6.6    | 0.0    | 0.0    |
| 70°   | 7266.7  | 3200.7 | 116.1  | 57.0   | 32.9   | 19.7   | 11.0   | 8.8    | 2.2    | 0.0    | 0.0    |
| 72.5° | 3790.0  | 1640.9 | 89.8   | 41.6   | 19.7   | 13.1   | 6.6    | 2.2    | 0.0    | 0.0    | 0.0    |
| 75°   | 1340.7  | 558.6  | 65.7   | 26.3   | 13.1   | 6.6    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 405.3   | 208.1  | 41.6   | 19.7   | 8.8    | 4.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 142.4   | 76.7   | 24.1   | 13.1   | 6.6    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 70.1    | 37.2   | 15.3   | 11.0   | 6.6    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 39.4    | 24.1   | 13.1   | 11.0   | 6.6    | 4.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 28.5    | 17.5   | 13.1   | 11.0   | 8.8    | 4.4    | 2.2    | 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)