

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: P457635

Luminaire Tested: **GLAN-SA9A-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457635  
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-SA9A-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA 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: 25455 lumens  
Efficiency: N/A  
Efficacy: 92.9 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

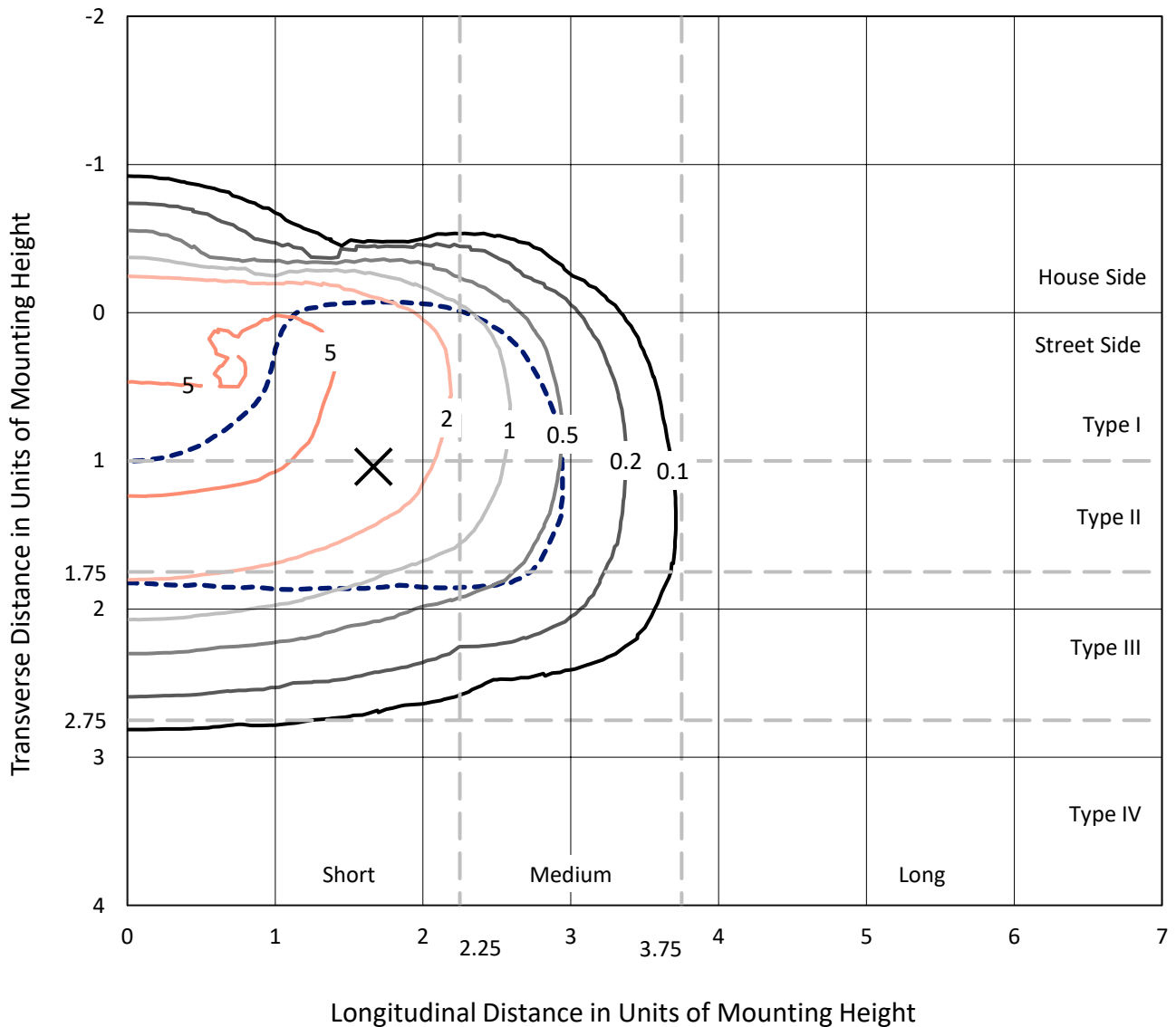
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

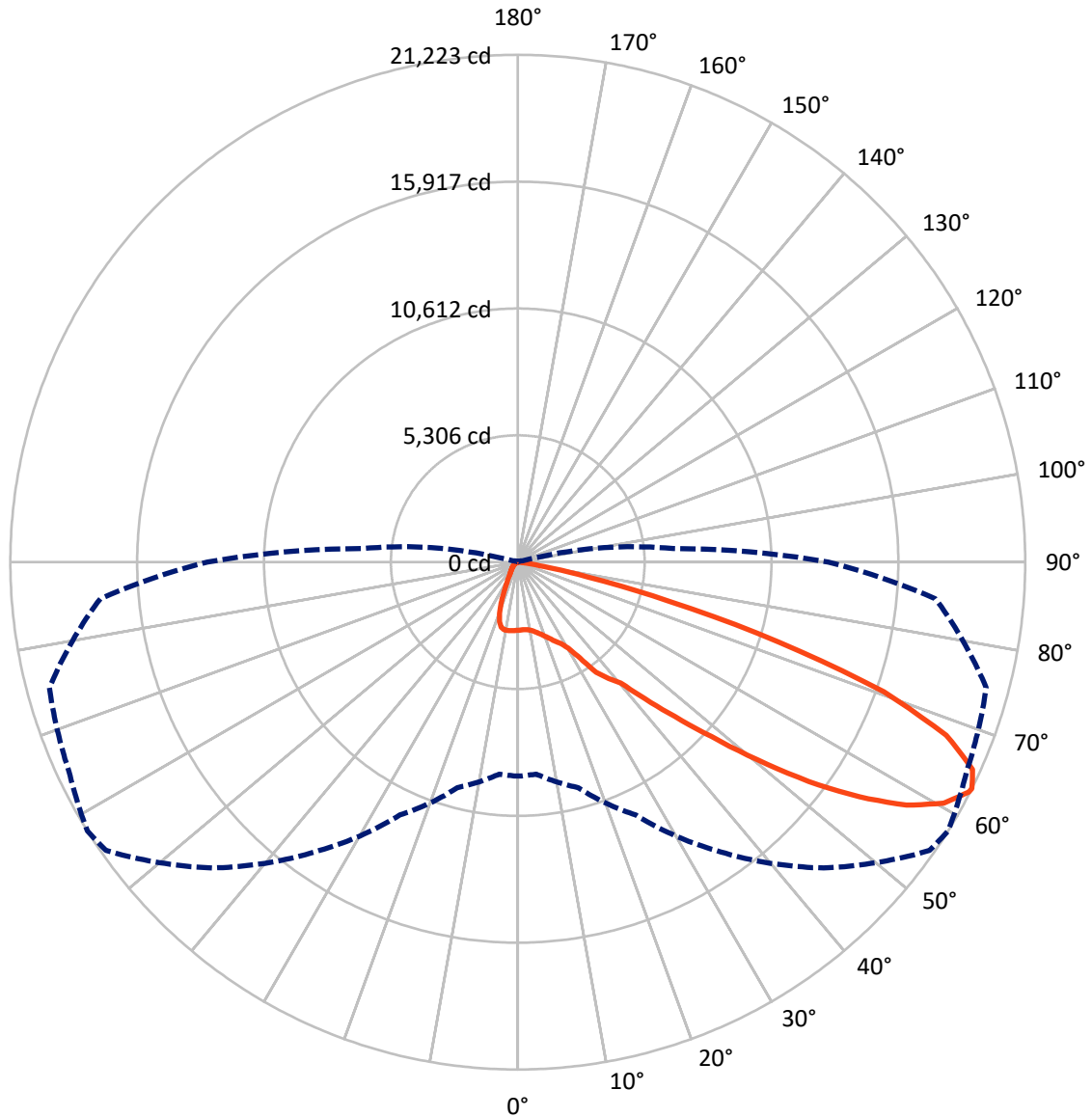
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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    | 2635.7   | 0.0    | 2635.7  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 22819.3  | 0.0    | 22819.3 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 25455.0  | 0.0    | 25455.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 266.8   | 1.0       |
| 10°-20°   | 726.6   | 2.9       |
| 20°-30°   | 1261.1  | 5.0       |
| 30°-40°   | 2317.4  | 9.1       |
| 40°-50°   | 4362.4  | 17.1      |
| 50°-60°   | 7461.5  | 29.3      |
| 60°-70°   | 7144.4  | 28.1      |
| 70°-80°   | 1821.8  | 7.2       |
| 80°-90°   | 93.2    | 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°    | 25455.0 | 100.0     |
| 0°-180°   | 25455.0 | 100.0     |



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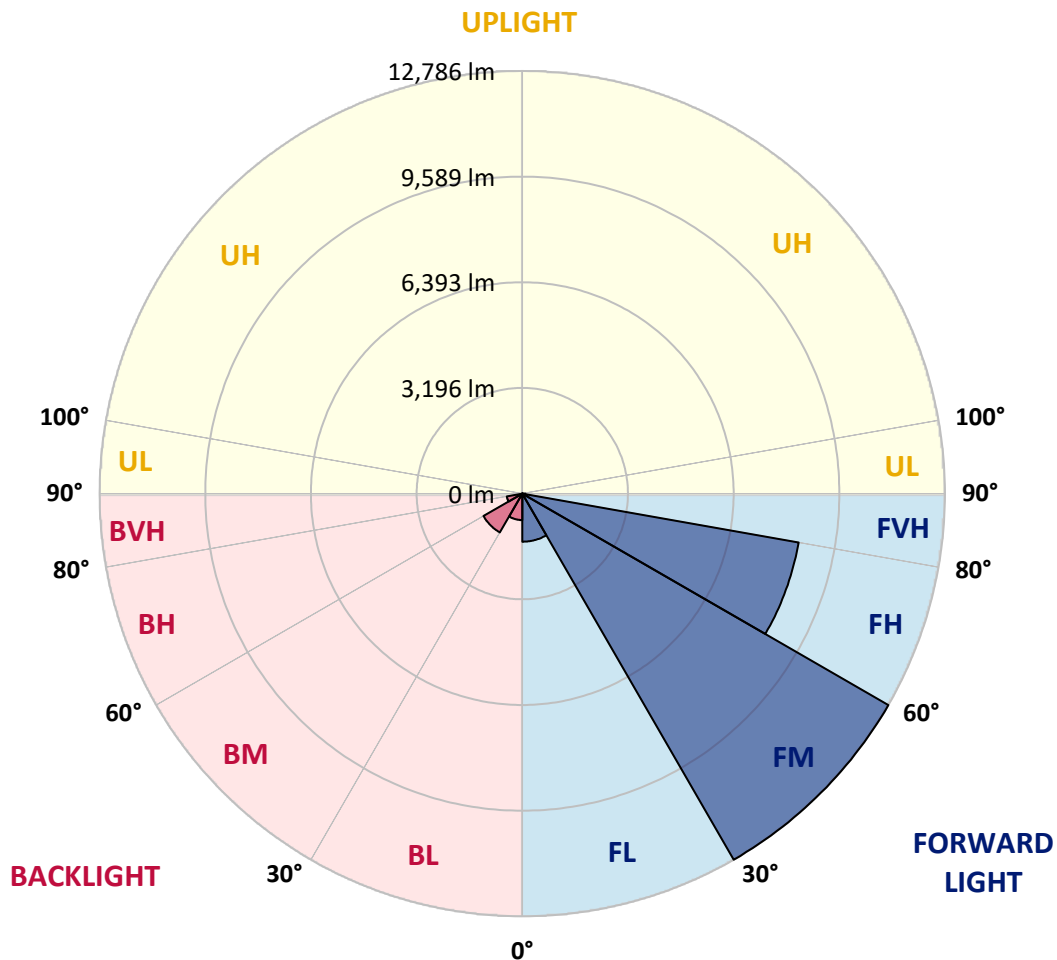
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1455.1  | 5.7       |                         |      |          |
| FM   | (30°-60°)   | 12785.5 | 50.2      |                         |      |          |
| FH   | (60°-80°)   | 8489.1  | 33.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 89.5    | 0.4       |                         |      | G1/100   |
| BL   | (0°-30°)    | 799.3   | 3.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1355.7  | 5.3       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 477.1   | 1.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 3.6     | 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°    | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  | 2849.8  |
| 2.5°  | 2778.9  | 2788.5  | 2798.0  | 2801.9  | 2815.3  | 2828.7  | 2838.3  | 2836.4  | 2851.7  | 2859.4  | 2859.4  |
| 5°    | 2667.7  | 2667.7  | 2692.6  | 2715.6  | 2754.0  | 2792.3  | 2828.7  | 2836.4  | 2865.1  | 2891.9  | 2901.5  |
| 7.5°  | 2573.8  | 2579.6  | 2598.7  | 2640.9  | 2692.6  | 2759.7  | 2832.5  | 2849.8  | 2899.6  | 2959.0  | 2983.9  |
| 10°   | 2529.7  | 2533.6  | 2558.5  | 2602.6  | 2667.7  | 2759.7  | 2861.3  | 2893.9  | 2970.5  | 3064.4  | 3098.9  |
| 12.5° | 2520.2  | 2525.9  | 2550.8  | 2600.6  | 2675.4  | 2786.5  | 2924.5  | 2959.0  | 3070.2  | 3190.9  | 3242.7  |
| 15°   | 2537.4  | 2541.2  | 2566.1  | 2619.8  | 2702.2  | 2834.5  | 3008.9  | 3056.8  | 3189.0  | 3328.9  | 3396.0  |
| 17.5° | 2598.7  | 2594.9  | 2612.1  | 2656.2  | 2748.2  | 2893.9  | 3110.4  | 3167.9  | 3323.2  | 3514.8  | 3558.9  |
| 20°   | 2859.4  | 2834.5  | 2819.1  | 2780.8  | 2817.2  | 2978.2  | 3233.1  | 3317.4  | 3509.1  | 3704.5  | 3735.2  |
| 22.5° | 3420.9  | 3365.3  | 3256.1  | 3106.6  | 2991.6  | 3093.2  | 3380.6  | 3478.4  | 3725.6  | 3917.3  | 3917.3  |
| 25°   | 4135.7  | 4064.8  | 3955.6  | 3629.8  | 3348.1  | 3282.9  | 3547.4  | 3670.0  | 3961.3  | 4154.9  | 4091.7  |
| 27.5° | 5030.7  | 4975.1  | 4762.4  | 4383.0  | 3951.8  | 3614.5  | 3740.9  | 3854.0  | 4170.2  | 4404.0  | 4271.8  |
| 30°   | 5759.0  | 5732.2  | 5557.8  | 5218.5  | 4743.3  | 4250.7  | 4101.2  | 4176.0  | 4448.1  | 4718.3  | 4582.3  |
| 32.5° | 6374.2  | 6374.2  | 6195.9  | 5879.7  | 5435.1  | 4998.1  | 4712.6  | 4766.3  | 5026.9  | 5339.3  | 5086.3  |
| 35°   | 7050.7  | 7027.7  | 6883.9  | 6583.1  | 6084.8  | 5699.6  | 5582.7  | 5655.5  | 5891.2  | 6123.1  | 5500.3  |
| 37.5° | 7761.7  | 7754.0  | 7604.5  | 7313.2  | 6906.9  | 6422.1  | 6148.0  | 6167.2  | 6287.9  | 6429.7  | 5985.1  |
| 40°   | 8534.0  | 8545.5  | 8350.0  | 8169.9  | 7786.6  | 7290.2  | 6765.1  | 6644.4  | 6757.5  | 7158.0  | 6880.1  |
| 42.5° | 9446.3  | 9419.4  | 9335.1  | 9089.8  | 8781.2  | 8484.2  | 7853.7  | 7809.6  | 7909.3  | 8338.5  | 8037.7  |
| 45°   | 10506.1 | 10544.4 | 10398.7 | 10262.7 | 10055.7 | 9808.5  | 9281.4  | 9204.8  | 9314.0  | 9981.0  | 9553.6  |
| 47.5° | 11567.8 | 11531.4 | 11625.3 | 11600.4 | 11711.5 | 11527.5 | 11061.8 | 10904.7 | 11167.3 | 11799.7 | 11171.1 |
| 50°   | 12376.5 | 12416.8 | 12612.3 | 12897.8 | 13375.0 | 13478.5 | 13032.0 | 12978.3 | 13095.2 | 13501.5 | 12618.0 |
| 52.5° | 12901.7 | 13035.8 | 13342.4 | 14076.4 | 14936.9 | 15605.8 | 15266.6 | 15237.8 | 15189.9 | 15299.2 | 14001.7 |
| 55°   | 13244.7 | 13380.8 | 13781.3 | 14862.2 | 16343.6 | 17430.3 | 17447.5 | 17324.9 | 17008.6 | 16930.1 | 15295.3 |
| 57.5° | 13033.9 | 13060.7 | 13631.8 | 15076.8 | 17123.6 | 18731.5 | 19295.0 | 19172.3 | 18587.8 | 18290.8 | 16437.5 |
| 60°   | 11715.4 | 11770.9 | 12566.3 | 14264.3 | 16784.4 | 19157.0 | 20519.6 | 20464.0 | 19823.9 | 19488.5 | 17326.8 |
| 62.5° | 9379.2  | 9540.2  | 10358.5 | 12252.0 | 15207.2 | 18440.2 | 21016.0 | 21173.1 | 20674.8 | 20213.0 | 17606.6 |
| 63°   | 8949.9  | 8898.2  | 9762.5  | 11665.5 | 14789.4 | 18085.7 | 21023.6 | 21223.0 | 20713.2 | 20282.0 | 17529.9 |
| 65°   | 6625.2  | 6780.5  | 7342.0  | 9199.0  | 12307.5 | 16435.6 | 20550.3 | 20902.9 | 20571.4 | 19977.2 | 16680.9 |
| 67.5° | 3719.9  | 3712.2  | 4333.1  | 6019.6  | 8614.5  | 12892.1 | 18582.1 | 19327.6 | 19258.6 | 17926.6 | 13827.3 |
| 70°   | 1820.6  | 1849.4  | 2104.3  | 3120.0  | 4996.2  | 8894.3  | 15441.0 | 16245.9 | 16270.8 | 14080.3 | 9561.3  |
| 72.5° | 824.1   | 837.5   | 1019.6  | 1519.8  | 2568.1  | 4735.6  | 10640.2 | 11408.7 | 11266.9 | 8972.9  | 5279.9  |
| 75°   | 435.0   | 463.8   | 561.5   | 764.7   | 1238.0  | 1952.9  | 5787.7  | 6531.3  | 6234.3  | 4099.3  | 1943.3  |
| 77.5° | 322.0   | 331.5   | 381.4   | 486.8   | 663.1   | 760.8   | 2497.2  | 2970.5  | 2782.7  | 1483.3  | 643.9   |
| 80°   | 235.7   | 243.4   | 283.6   | 345.0   | 417.8   | 387.1   | 941.0   | 1079.0  | 967.8   | 504.0   | 197.4   |
| 82.5° | 143.7   | 145.7   | 207.0   | 256.8   | 262.6   | 216.6   | 310.5   | 333.5   | 348.8   | 283.6   | 107.3   |
| 85°   | 51.7    | 65.2    | 139.9   | 185.9   | 155.2   | 109.2   | 130.3   | 143.7   | 157.2   | 180.1   | 63.2    |
| 87.5° | 5.7     | 7.7     | 67.1    | 90.1    | 44.1    | 40.2    | 47.9    | 53.7    | 57.5    | 67.1    | 30.7    |
| 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°    | 2849.8  | 2849.8 | 2849.8 | 2849.8 | 2849.8 | 2849.8 | 2849.8 | 2849.8 | 2849.8 | 2849.8 | 2849.8 |
| 2.5°  | 2867.0  | 2874.7 | 2869.0 | 2859.4 | 2857.5 | 2851.7 | 2840.2 | 2840.2 | 2840.2 | 2844.0 | 2840.2 |
| 5°    | 2909.2  | 2914.9 | 2901.5 | 2882.4 | 2861.3 | 2834.5 | 2805.7 | 2788.5 | 2786.5 | 2782.7 | 2773.1 |
| 7.5°  | 2989.7  | 2997.4 | 2966.7 | 2920.7 | 2863.2 | 2798.0 | 2736.7 | 2679.2 | 2652.4 | 2631.3 | 2631.3 |
| 10°   | 3106.6  | 3114.3 | 3052.9 | 2970.5 | 2855.5 | 2723.3 | 2577.6 | 2445.4 | 2341.9 | 2294.0 | 2282.5 |
| 12.5° | 3246.5  | 3250.3 | 3148.8 | 3005.0 | 2815.3 | 2560.4 | 2249.9 | 1960.5 | 1759.3 | 1667.3 | 1657.7 |
| 15°   | 3399.8  | 3373.0 | 3238.8 | 3018.4 | 2700.3 | 2225.0 | 1688.4 | 1333.9 | 1125.0 | 1063.6 | 1086.6 |
| 17.5° | 3555.0  | 3505.2 | 3307.8 | 2997.4 | 2441.6 | 1688.4 | 1134.5 | 910.3  | 845.2  | 827.9  | 827.9  |
| 20°   | 3700.7  | 3631.7 | 3357.6 | 2905.4 | 1993.1 | 1163.3 | 841.3  | 787.7  | 776.2  | 764.7  | 766.6  |
| 22.5° | 3846.3  | 3740.9 | 3401.7 | 2700.3 | 1485.3 | 831.7  | 753.2  | 735.9  | 720.6  | 705.3  | 703.3  |
| 25°   | 3988.2  | 3842.5 | 3419.0 | 2320.8 | 1011.9 | 714.8  | 688.0  | 665.0  | 634.4  | 617.1  | 613.3  |
| 27.5° | 4135.7  | 3965.2 | 3407.5 | 1841.7 | 737.8  | 640.1  | 613.3  | 580.7  | 544.3  | 513.6  | 513.6  |
| 30°   | 4419.4  | 4199.0 | 3367.2 | 1324.3 | 620.9  | 563.4  | 528.9  | 477.2  | 437.0  | 406.3  | 404.4  |
| 32.5° | 4806.5  | 4503.7 | 3229.2 | 931.4  | 551.9  | 496.4  | 444.6  | 387.1  | 345.0  | 322.0  | 322.0  |
| 35°   | 5151.5  | 4810.3 | 2970.5 | 686.1  | 496.4  | 431.2  | 368.0  | 312.4  | 279.8  | 264.5  | 258.7  |
| 37.5° | 5676.6  | 5258.8 | 2614.1 | 557.7  | 442.7  | 373.7  | 308.6  | 256.8  | 230.0  | 218.5  | 218.5  |
| 40°   | 6464.2  | 5806.9 | 2177.1 | 488.7  | 391.0  | 318.1  | 256.8  | 216.6  | 195.5  | 182.1  | 182.1  |
| 42.5° | 7441.6  | 6477.7 | 1734.4 | 438.9  | 343.0  | 274.1  | 214.6  | 184.0  | 164.8  | 155.2  | 153.3  |
| 45°   | 8672.0  | 7184.8 | 1335.8 | 392.9  | 304.7  | 233.8  | 182.1  | 155.2  | 136.1  | 130.3  | 132.2  |
| 47.5° | 9956.0  | 7807.7 | 1034.9 | 352.6  | 264.5  | 197.4  | 155.2  | 134.2  | 120.7  | 113.1  | 113.1  |
| 50°   | 11052.3 | 8237.0 | 785.8  | 306.6  | 233.8  | 166.7  | 136.1  | 120.7  | 109.2  | 105.4  | 103.5  |
| 52.5° | 11968.3 | 8361.5 | 601.8  | 266.4  | 205.1  | 143.7  | 120.7  | 109.2  | 99.7   | 93.9   | 93.9   |
| 55°   | 12748.3 | 8252.3 | 471.5  | 224.2  | 172.5  | 124.6  | 107.3  | 97.7   | 86.2   | 80.5   | 78.6   |
| 57.5° | 13204.5 | 7901.6 | 360.3  | 185.9  | 139.9  | 103.5  | 93.9   | 82.4   | 69.0   | 59.4   | 59.4   |
| 60°   | 13434.4 | 7391.8 | 276.0  | 153.3  | 107.3  | 82.4   | 76.7   | 61.3   | 47.9   | 40.2   | 38.3   |
| 62.5° | 13158.5 | 6715.3 | 208.9  | 120.7  | 80.5   | 61.3   | 51.7   | 44.1   | 30.7   | 23.0   | 23.0   |
| 63°   | 12987.9 | 6519.8 | 201.2  | 115.0  | 74.7   | 57.5   | 47.9   | 40.2   | 26.8   | 21.1   | 19.2   |
| 65°   | 11839.9 | 5667.0 | 164.8  | 92.0   | 59.4   | 40.2   | 32.6   | 28.7   | 19.2   | 9.6    | 7.7    |
| 67.5° | 9402.2  | 4335.0 | 130.3  | 69.0   | 42.2   | 28.7   | 19.2   | 17.2   | 5.7    | 0.0    | 0.0    |
| 70°   | 6356.9  | 2800.0 | 101.6  | 49.8   | 28.7   | 17.2   | 9.6    | 7.7    | 1.9    | 0.0    | 0.0    |
| 72.5° | 3315.5  | 1435.4 | 78.6   | 36.4   | 17.2   | 11.5   | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    |
| 75°   | 1172.9  | 488.7  | 57.5   | 23.0   | 11.5   | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 354.5   | 182.1  | 36.4   | 17.2   | 7.7    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 124.6   | 67.1   | 21.1   | 11.5   | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 61.3    | 32.6   | 13.4   | 9.6    | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 34.5    | 21.1   | 11.5   | 9.6    | 5.7    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 24.9    | 15.3   | 11.5   | 9.6    | 7.7    | 3.8    | 1.9    | 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)