

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: P323256

Luminaire Tested: **GAN-SA2D-750-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323256  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA 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: 13149 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

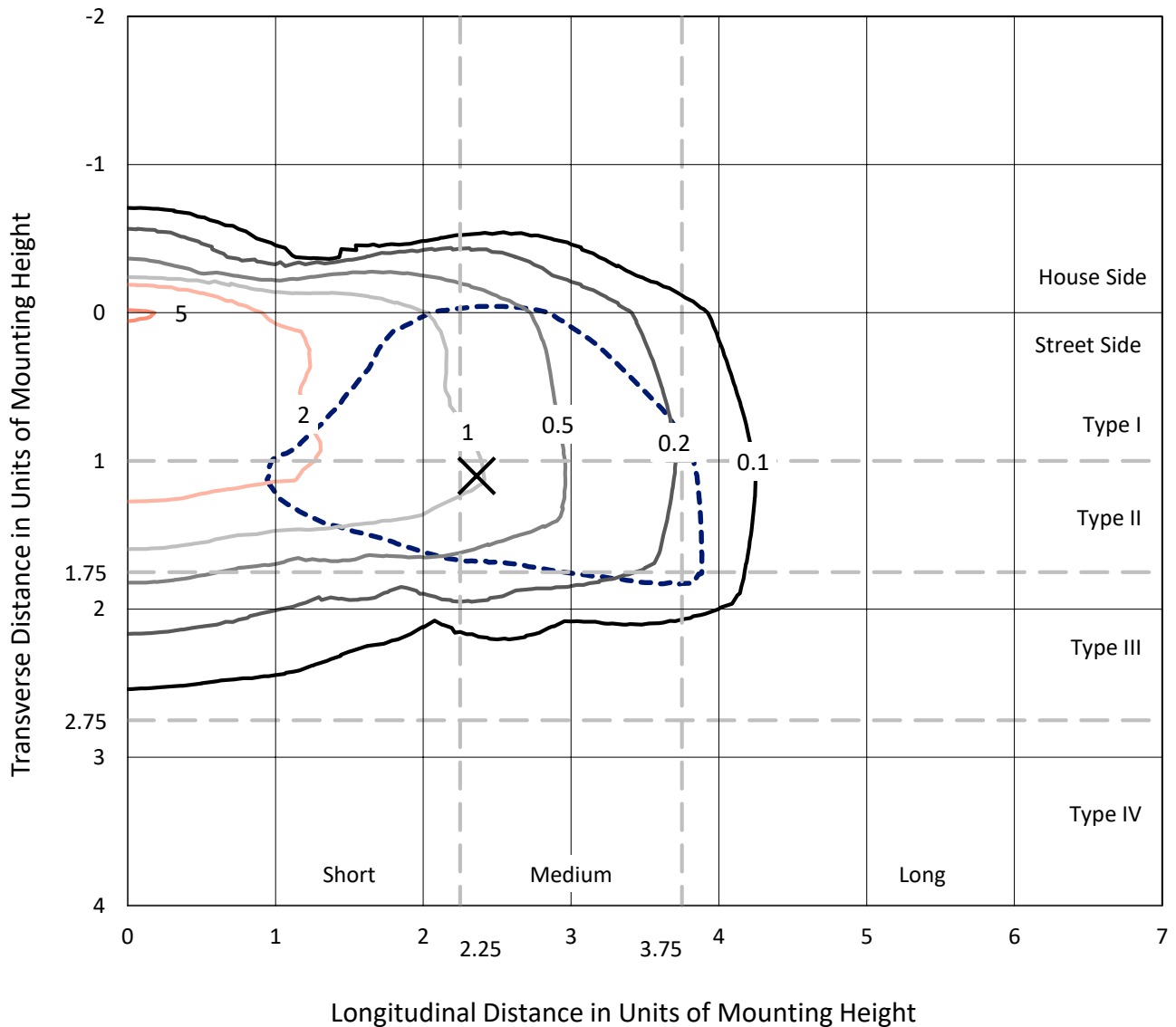
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

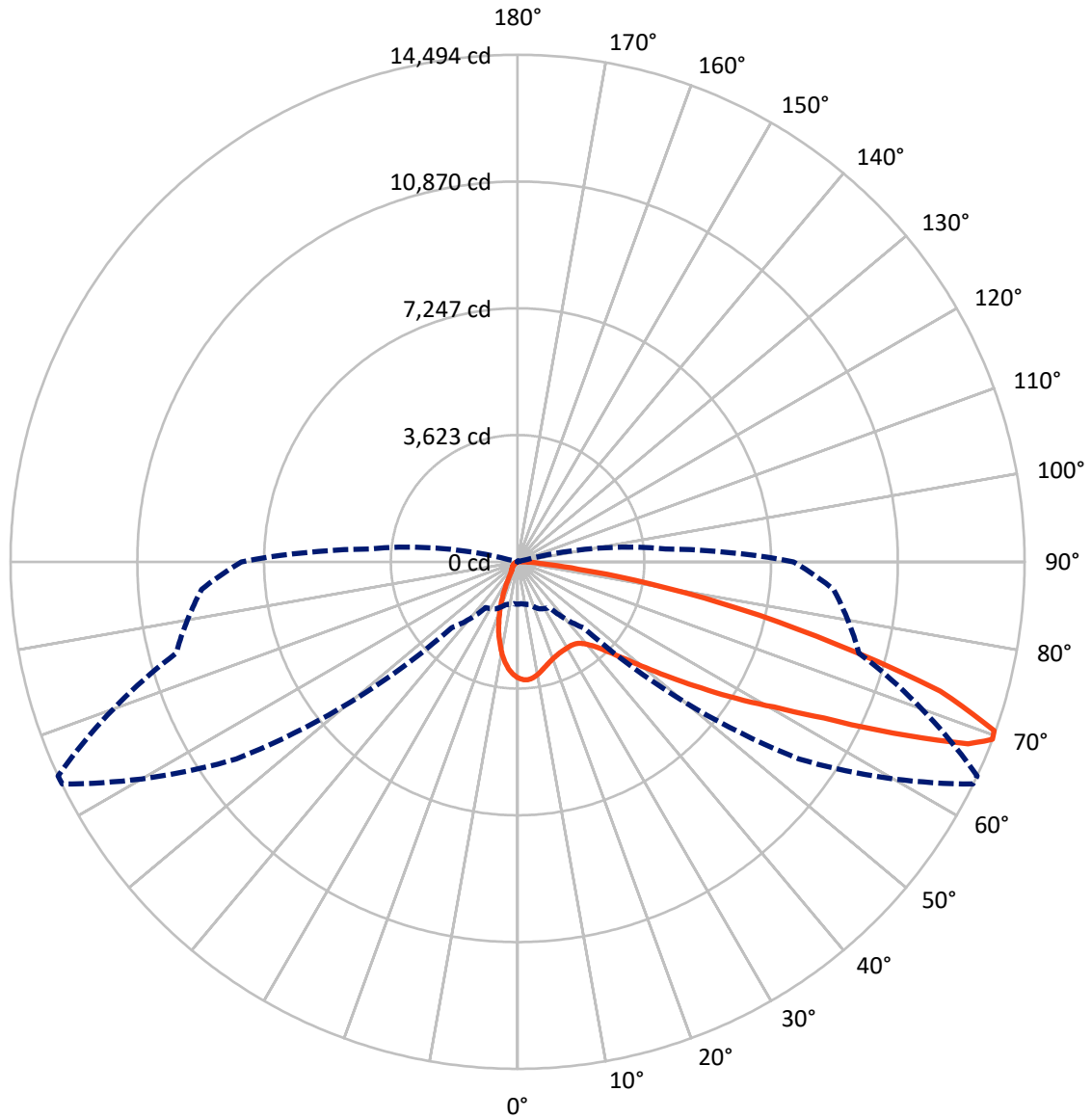
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1550.0   | 0.0    | 1550.0  |
|                    | % Fixture | 11.8     | 0.0    | 11.8    |
| <b>Street Side</b> | Lumens    | 11599.0  | 0.0    | 11599.0 |
|                    | % Fixture | 88.2     | 0.0    | 88.2    |
| <b>Total</b>       | Lumens    | 13149.0  | 0.0    | 13149.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 277.9   | 2.1       |
| 10°-20°   | 608.2   | 4.6       |
| 20°-30°   | 842.4   | 6.4       |
| 30°-40°   | 1174.6  | 8.9       |
| 40°-50°   | 1825.7  | 13.9      |
| 50°-60°   | 2931.0  | 22.3      |
| 60°-70°   | 3315.5  | 25.2      |
| 70°-80°   | 1947.2  | 14.8      |
| 80°-90°   | 226.5   | 1.7       |
| 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°    | 13149.0 | 100.0     |
| 0°-180°   | 13149.0 | 100.0     |

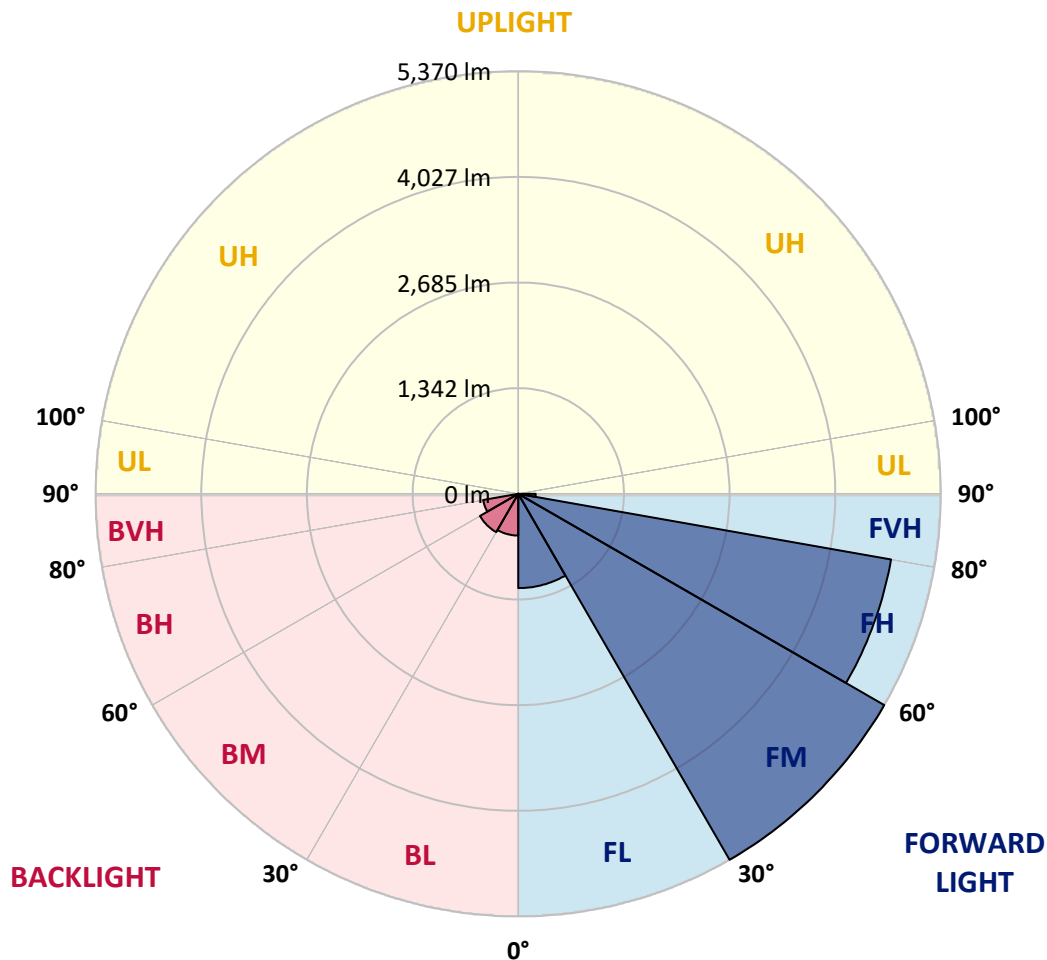


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1198.2 | 9.1       |                         |      |         |
| FM (30°-60°)   | 5369.7 | 40.8      |                         |      |         |
| FH (60°-80°)   | 4809.8 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 221.4  | 1.7       |                         |      | G2/225  |
| BL (0°-30°)    | 530.3  | 4.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 561.7  | 4.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 452.9  | 3.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.1    | 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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 64°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0°    | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8  | 3322.8  | 3322.8  | 3322.8  | 3322.8 |
| 2.5°  | 3352.3 | 3343.9 | 3350.6 | 3365.1 | 3372.3 | 3372.3 | 3377.9  | 3371.2  | 3373.4  | 3357.3  | 3333.9 |
| 5°    | 3142.5 | 3129.7 | 3148.1 | 3188.7 | 3238.8 | 3281.6 | 3345.0  | 3378.4  | 3381.8  | 3382.3  | 3355.0 |
| 7.5°  | 2916.6 | 2904.9 | 2932.2 | 2980.0 | 3044.6 | 3124.1 | 3234.9  | 3331.7  | 3337.2  | 3389.5  | 3369.5 |
| 10°   | 2733.0 | 2724.7 | 2756.4 | 2807.6 | 2883.2 | 2972.2 | 3108.0  | 3242.7  | 3258.8  | 3374.5  | 3367.3 |
| 12.5° | 2587.2 | 2580.5 | 2610.6 | 2669.6 | 2746.9 | 2845.4 | 2987.3  | 3143.6  | 3165.3  | 3340.6  | 3356.2 |
| 15°   | 2481.0 | 2479.8 | 2504.9 | 2561.6 | 2647.3 | 2739.1 | 2884.3  | 3051.8  | 3076.8  | 3303.9  | 3354.5 |
| 17.5° | 2425.3 | 2427.0 | 2445.3 | 2493.8 | 2567.2 | 2658.4 | 2797.5  | 2974.5  | 3001.7  | 3271.0  | 3362.8 |
| 20°   | 2419.8 | 2421.4 | 2431.4 | 2458.7 | 2518.2 | 2598.9 | 2726.9  | 2909.4  | 2937.8  | 3246.5  | 3376.2 |
| 22.5° | 2468.7 | 2467.6 | 2470.4 | 2467.6 | 2501.0 | 2562.2 | 2680.1  | 2859.3  | 2892.1  | 3230.4  | 3386.8 |
| 25°   | 2562.7 | 2561.1 | 2560.0 | 2539.4 | 2517.1 | 2549.9 | 2660.7  | 2830.9  | 2862.1  | 3218.7  | 3392.9 |
| 27.5° | 2693.5 | 2692.4 | 2690.7 | 2656.8 | 2590.0 | 2569.4 | 2662.9  | 2820.4  | 2846.5  | 3209.3  | 3391.8 |
| 30°   | 2865.4 | 2873.2 | 2871.0 | 2823.7 | 2719.6 | 2629.0 | 2686.3  | 2814.8  | 2837.6  | 3190.9  | 3380.1 |
| 32.5° | 3067.4 | 3083.0 | 3095.2 | 3044.6 | 2914.4 | 2746.9 | 2740.2  | 2820.9  | 2837.6  | 3177.0  | 3358.9 |
| 35°   | 3277.2 | 3297.2 | 3342.2 | 3324.4 | 3153.1 | 2924.4 | 2833.2  | 2857.6  | 2871.5  | 3184.8  | 3348.9 |
| 37.5° | 3483.6 | 3507.5 | 3605.4 | 3657.2 | 3465.8 | 3159.2 | 2977.8  | 2948.3  | 2955.6  | 3232.1  | 3360.1 |
| 40°   | 3723.4 | 3759.5 | 3908.1 | 3991.6 | 3839.1 | 3473.6 | 3194.2  | 3104.1  | 3106.9  | 3336.1  | 3411.8 |
| 42.5° | 4038.3 | 4075.6 | 4236.4 | 4367.1 | 4259.7 | 3870.8 | 3488.0  | 3342.2  | 3339.5  | 3530.9  | 3533.6 |
| 45°   | 4422.2 | 4461.2 | 4627.5 | 4772.7 | 4724.3 | 4341.5 | 3864.1  | 3690.0  | 3686.7  | 3838.0  | 3764.6 |
| 47.5° | 4857.3 | 4895.7 | 5044.3 | 5193.9 | 5246.2 | 4891.2 | 4343.2  | 4164.6  | 4156.8  | 4264.7  | 4121.2 |
| 50°   | 5230.6 | 5255.7 | 5392.6 | 5594.0 | 5829.9 | 5566.7 | 4939.1  | 4767.2  | 4758.8  | 4831.7  | 4644.8 |
| 52.5° | 5366.4 | 5380.9 | 5520.0 | 5802.1 | 6390.7 | 6481.4 | 5721.9  | 5500.5  | 5494.4  | 5526.1  | 5341.9 |
| 55°   | 5091.5 | 5117.7 | 5288.5 | 5706.9 | 6694.5 | 7515.2 | 6710.1  | 6408.5  | 6362.3  | 6293.9  | 6070.8 |
| 57.5° | 4342.6 | 4384.4 | 4568.0 | 5124.4 | 6552.6 | 8335.3 | 8162.3  | 7435.6  | 7367.7  | 6949.3  | 6663.4 |
| 60°   | 3253.8 | 3305.0 | 3457.4 | 4057.8 | 5795.4 | 8627.4 | 9749.1  | 8580.1  | 8427.1  | 7471.2  | 7208.1 |
| 62.5° | 2232.8 | 2258.4 | 2361.9 | 2753.0 | 4268.1 | 8148.9 | 11076.7 | 10113.0 | 9833.7  | 8038.8  | 7797.3 |
| 65°   | 1705.3 | 1714.2 | 1756.5 | 1891.2 | 2541.6 | 6619.4 | 11604.7 | 12135.5 | 11797.7 | 8717.6  | 8408.8 |
| 67.5° | 1374.3 | 1367.1 | 1425.5 | 1618.0 | 1702.0 | 4038.3 | 10988.7 | 14048.9 | 13890.9 | 9625.0  | 9024.1 |
| 69°   | 1211.8 | 1201.8 | 1261.3 | 1485.0 | 1598.5 | 2669.6 | 9823.7  | 14483.5 | 14493.5 | 10104.1 | 9066.4 |
| 70°   | 1090.5 | 1097.2 | 1156.2 | 1406.0 | 1563.5 | 2095.4 | 8710.9  | 14372.7 | 14451.7 | 10283.2 | 8812.7 |
| 72.5° | 728.3  | 746.1  | 864.6  | 1167.3 | 1503.4 | 1585.7 | 5259.6  | 12333.6 | 12637.3 | 9879.9  | 7560.8 |
| 75°   | 410.6  | 424.0  | 564.7  | 880.2  | 1416.6 | 1510.0 | 2778.1  | 9086.4  | 9380.2  | 8261.9  | 5830.4 |
| 77.5° | 201.4  | 208.6  | 319.4  | 568.1  | 1184.6 | 1438.8 | 1575.7  | 6172.1  | 6507.6  | 5392.6  | 3297.7 |
| 80°   | 85.1   | 89.0   | 159.7  | 350.5  | 846.8  | 1373.2 | 1170.1  | 3798.5  | 3840.2  | 2112.6  | 878.5  |
| 82.5° | 32.8   | 33.9   | 67.3   | 218.7  | 538.0  | 1070.5 | 978.7   | 1801.0  | 1757.6  | 397.8   | 200.3  |
| 85°   | 3.9    | 4.5    | 24.5   | 131.3  | 299.3  | 550.8  | 795.1   | 776.2   | 718.3   | 79.0    | 102.9  |
| 87.5° | 0.0    | 0.0    | 1.7    | 40.1   | 89.0   | 258.2  | 413.4   | 322.2   | 290.4   | 25.6    | 53.4   |
| 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°    | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 | 3322.8 |
| 2.5°  | 3314.4 | 3308.9 | 3278.8 | 3235.4 | 3194.2 | 3143.1 | 3094.1 | 3064.6 | 3041.2 | 3025.7 | 3044.0 |
| 5°    | 3323.3 | 3298.9 | 3207.6 | 3090.8 | 2976.1 | 2847.1 | 2726.9 | 2625.1 | 2585.0 | 2540.5 | 2560.5 |
| 7.5°  | 3320.5 | 3274.4 | 3110.2 | 2902.1 | 2691.8 | 2474.3 | 2268.4 | 2109.8 | 2027.5 | 1946.8 | 1967.4 |
| 10°   | 3306.6 | 3228.7 | 2980.0 | 2671.8 | 2356.9 | 2044.2 | 1752.1 | 1530.1 | 1406.0 | 1293.6 | 1309.7 |
| 12.5° | 3276.0 | 3167.5 | 2826.5 | 2408.1 | 1986.9 | 1574.6 | 1232.4 | 948.1  | 795.6  | 728.3  | 736.7  |
| 15°   | 3257.7 | 3108.0 | 2664.0 | 2141.0 | 1591.8 | 1096.6 | 753.4  | 560.3  | 490.7  | 468.5  | 471.3  |
| 17.5° | 3248.8 | 3050.7 | 2496.0 | 1835.5 | 1187.9 | 698.3  | 486.8  | 429.5  | 414.5  | 410.6  | 411.7  |
| 20°   | 3239.9 | 2992.8 | 2322.9 | 1533.4 | 818.5  | 469.6  | 400.0  | 383.4  | 377.8  | 372.8  | 373.9  |
| 22.5° | 3224.9 | 2937.2 | 2137.1 | 1227.4 | 551.9  | 381.1  | 360.5  | 344.4  | 332.7  | 326.6  | 327.7  |
| 25°   | 3206.5 | 2878.8 | 1947.4 | 914.2  | 402.8  | 340.0  | 320.5  | 297.7  | 283.8  | 272.6  | 273.2  |
| 27.5° | 3177.0 | 2807.0 | 1751.5 | 665.4  | 338.3  | 304.3  | 278.2  | 253.2  | 229.8  | 217.0  | 217.0  |
| 30°   | 3135.8 | 2725.8 | 1534.0 | 476.3  | 303.2  | 269.3  | 237.6  | 206.4  | 181.4  | 169.7  | 168.6  |
| 32.5° | 3090.2 | 2641.2 | 1314.2 | 361.1  | 275.4  | 236.5  | 200.3  | 167.5  | 145.2  | 135.8  | 135.2  |
| 35°   | 3051.3 | 2549.9 | 1095.0 | 302.7  | 247.6  | 204.8  | 165.2  | 137.4  | 119.6  | 111.8  | 111.3  |
| 37.5° | 3026.2 | 2458.7 | 881.3  | 270.4  | 222.6  | 175.3  | 138.5  | 113.5  | 100.7  | 94.6   | 94.0   |
| 40°   | 3022.3 | 2390.8 | 686.0  | 245.9  | 199.2  | 149.1  | 115.7  | 96.3   | 84.6   | 77.9   | 77.3   |
| 42.5° | 3073.0 | 2351.9 | 526.3  | 225.3  | 175.3  | 126.3  | 98.5   | 82.3   | 70.1   | 63.4   | 62.9   |
| 45°   | 3205.9 | 2364.1 | 405.1  | 207.0  | 151.3  | 106.8  | 83.5   | 68.4   | 57.3   | 52.3   | 51.2   |
| 47.5° | 3448.5 | 2448.7 | 322.2  | 188.6  | 128.5  | 90.7   | 71.2   | 56.8   | 47.3   | 42.3   | 41.7   |
| 50°   | 3880.3 | 2647.3 | 269.3  | 168.6  | 107.4  | 77.3   | 59.0   | 46.2   | 38.4   | 33.9   | 33.4   |
| 52.5° | 4453.4 | 3001.2 | 240.4  | 149.1  | 89.0   | 65.7   | 48.4   | 36.7   | 30.0   | 26.7   | 26.2   |
| 55°   | 5085.4 | 3429.6 | 221.4  | 128.0  | 72.9   | 54.5   | 38.4   | 28.9   | 23.4   | 20.6   | 19.5   |
| 57.5° | 5702.5 | 3800.7 | 203.6  | 107.4  | 60.6   | 44.5   | 30.6   | 22.8   | 18.4   | 15.6   | 15.0   |
| 60°   | 6269.4 | 4141.8 | 183.1  | 86.2   | 49.5   | 35.1   | 23.9   | 17.8   | 14.5   | 11.7   | 11.7   |
| 62.5° | 6876.5 | 4405.5 | 154.7  | 67.3   | 40.6   | 26.7   | 19.5   | 16.1   | 11.7   | 10.0   | 9.5    |
| 65°   | 7519.6 | 4601.4 | 121.3  | 52.3   | 31.7   | 20.0   | 16.1   | 16.7   | 9.5    | 7.2    | 6.7    |
| 67.5° | 7994.8 | 4562.4 | 89.6   | 41.2   | 24.5   | 15.6   | 15.6   | 17.8   | 8.3    | 5.6    | 5.0    |
| 69°   | 7890.2 | 4245.8 | 75.1   | 35.6   | 21.1   | 13.4   | 14.5   | 17.8   | 7.8    | 5.0    | 4.5    |
| 70°   | 7587.0 | 3895.3 | 66.2   | 31.7   | 18.9   | 12.2   | 13.9   | 17.2   | 7.2    | 5.0    | 4.5    |
| 72.5° | 6318.4 | 2933.9 | 51.7   | 23.9   | 15.0   | 10.0   | 11.7   | 15.0   | 7.2    | 5.0    | 3.9    |
| 75°   | 4752.7 | 1877.8 | 39.5   | 17.2   | 11.1   | 7.8    | 8.9    | 11.1   | 7.2    | 4.5    | 3.9    |
| 77.5° | 2586.1 | 677.1  | 28.4   | 11.7   | 7.8    | 6.1    | 6.1    | 8.3    | 6.7    | 3.3    | 2.2    |
| 80°   | 664.9  | 170.3  | 17.8   | 7.8    | 6.1    | 4.5    | 3.9    | 5.6    | 3.9    | 0.6    | 0.0    |
| 82.5° | 164.1  | 38.4   | 9.5    | 5.6    | 4.5    | 1.7    | 1.7    | 2.8    | 1.7    | 0.0    | 0.0    |
| 85°   | 90.1   | 18.9   | 6.1    | 3.9    | 2.2    | 0.0    | 0.0    | 0.6    | 0.0    | 0.0    | 0.0    |
| 87.5° | 46.2   | 5.6    | 1.7    | 1.1    | 0.6    | 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)