

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: P452694

Luminaire Tested: **GLAN-SA3C-830-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3C-830-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13718 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

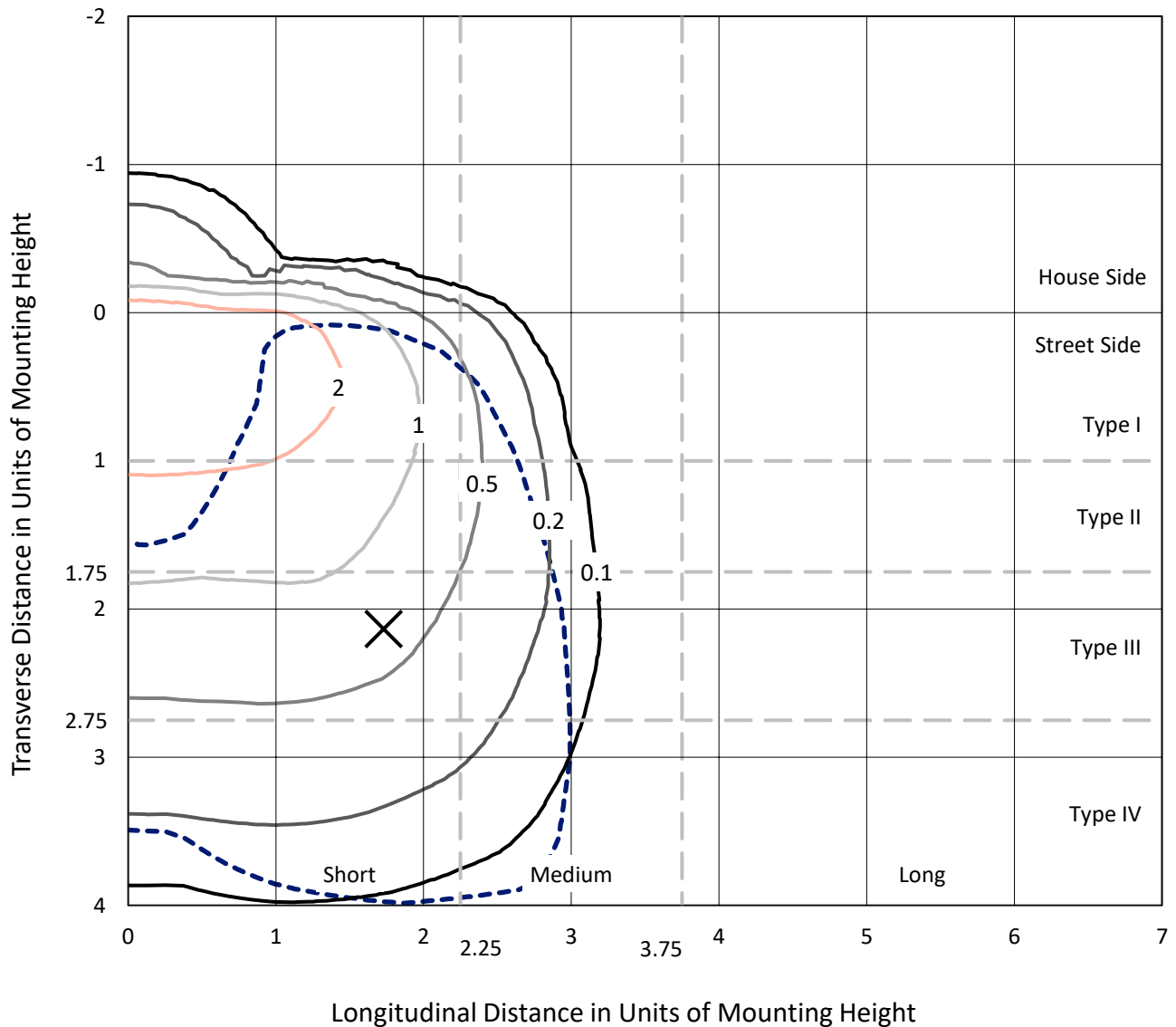
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

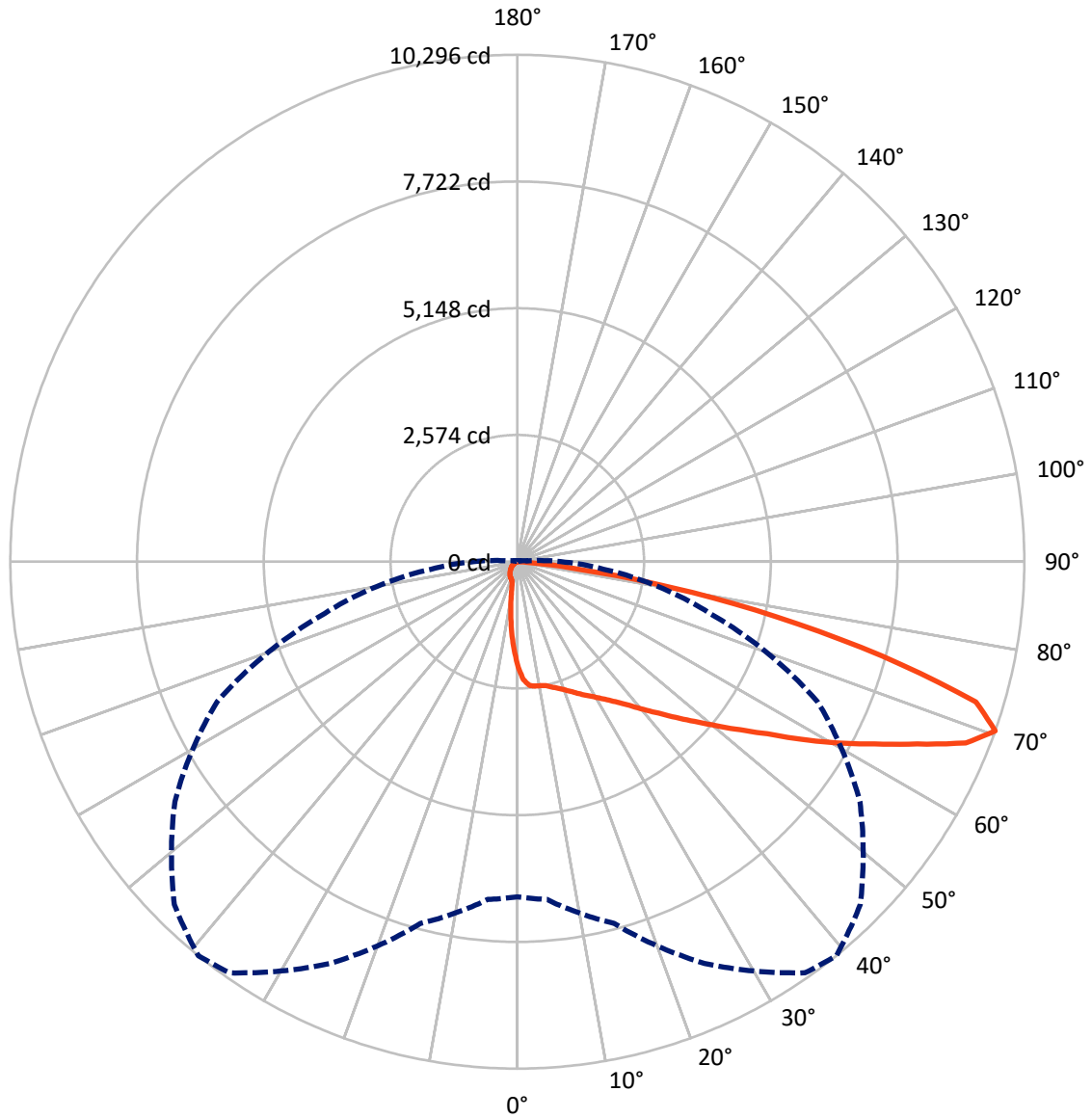
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 894.5    | 0.0    | 894.5   |
|                    | % Fixture | 6.5      | 0.0    | 6.5     |
| <b>Street Side</b> | Lumens    | 12823.5  | 0.0    | 12823.5 |
|                    | % Fixture | 93.5     | 0.0    | 93.5    |
| <b>Total</b>       | Lumens    | 13718.0  | 0.0    | 13718.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 182.6   | 1.3       |
| 10°-20°   | 474.4   | 3.5       |
| 20°-30°   | 794.8   | 5.8       |
| 30°-40°   | 1232.7  | 9.0       |
| 40°-50°   | 1953.4  | 14.2      |
| 50°-60°   | 2863.4  | 20.9      |
| 60°-70°   | 3670.2  | 26.8      |
| 70°-80°   | 2306.2  | 16.8      |
| 80°-90°   | 240.3   | 1.8       |
| 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°    | 13718.0 | 100.0     |
| 0°-180°   | 13718.0 | 100.0     |

**Coefficient of Utilization**



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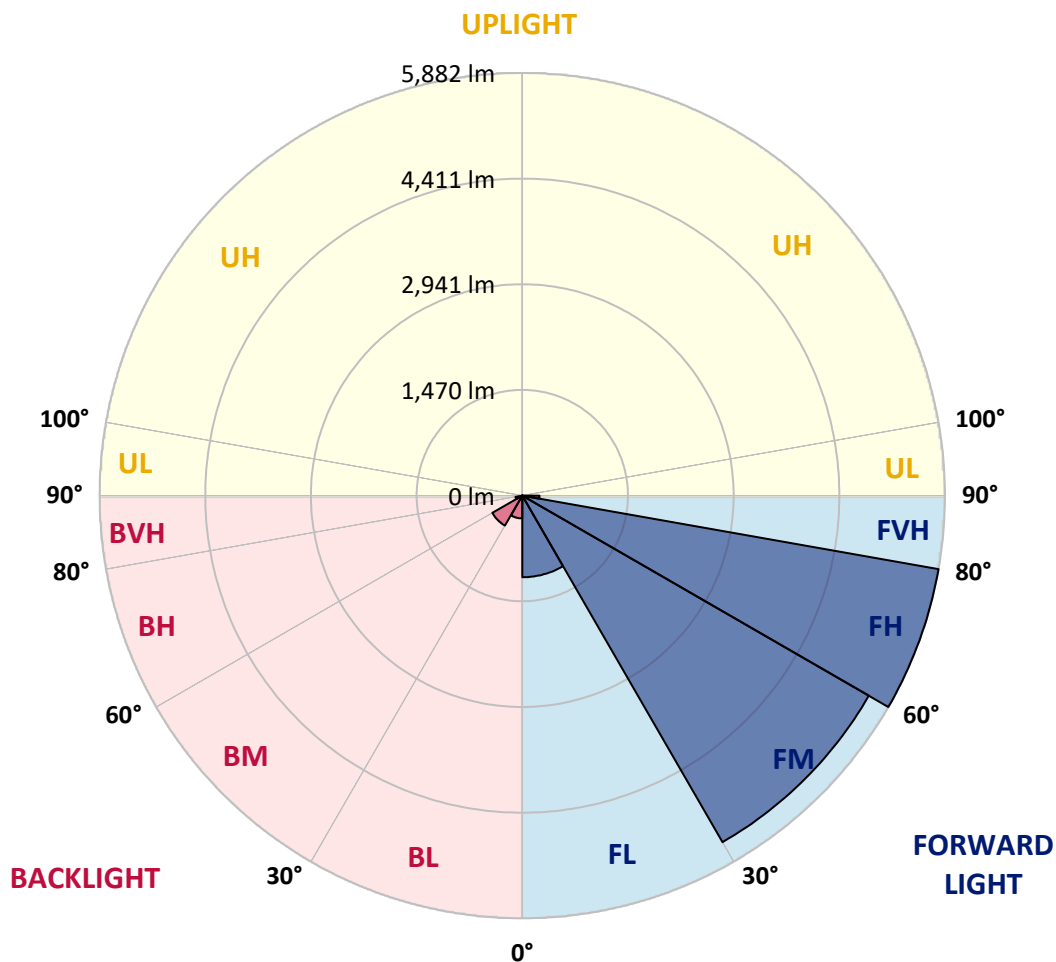
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1135.1 | 8.3       |                         |      |         |
| FM (30°-60°)   | 5568.1 | 40.6      |                         |      |         |
| FH (60°-80°)   | 5881.8 | 42.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 238.5  | 1.7       |                         |      | G3/500  |
| BL (0°-30°)    | 316.7  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 481.4  | 3.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 94.6   | 0.7       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 39°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5  | 2140.5  | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 |
| 2.5°  | 2473.3 | 2465.0 | 2453.9 | 2441.0 | 2404.1  | 2397.7  | 2375.5 | 2328.5 | 2272.3 | 2226.2 | 2162.6 |
| 5°    | 2590.3 | 2594.9 | 2586.6 | 2563.6 | 2536.9  | 2521.2  | 2493.5 | 2420.7 | 2347.9 | 2254.8 | 2150.6 |
| 7.5°  | 2617.1 | 2626.3 | 2616.1 | 2594.0 | 2568.2  | 2551.6  | 2529.5 | 2466.8 | 2382.0 | 2276.0 | 2133.1 |
| 10°   | 2614.3 | 2625.4 | 2618.9 | 2598.6 | 2577.4  | 2561.8  | 2537.8 | 2488.0 | 2419.8 | 2308.3 | 2138.6 |
| 12.5° | 2609.7 | 2624.4 | 2623.5 | 2613.4 | 2595.9  | 2583.9  | 2569.1 | 2524.9 | 2461.3 | 2355.3 | 2169.1 |
| 15°   | 2596.8 | 2615.2 | 2631.8 | 2640.1 | 2641.0  | 2641.0  | 2622.6 | 2575.6 | 2514.7 | 2417.0 | 2208.7 |
| 17.5° | 2602.3 | 2623.5 | 2665.0 | 2689.0 | 2705.6  | 2703.7  | 2684.4 | 2633.7 | 2566.4 | 2480.6 | 2250.2 |
| 20°   | 2636.4 | 2665.0 | 2723.1 | 2771.0 | 2787.6  | 2782.1  | 2756.3 | 2697.3 | 2620.7 | 2535.0 | 2290.7 |
| 22.5° | 2720.3 | 2746.1 | 2818.9 | 2875.2 | 2887.2  | 2872.4  | 2835.5 | 2755.3 | 2686.2 | 2594.0 | 2339.6 |
| 25°   | 2845.7 | 2876.1 | 2943.4 | 2985.8 | 2985.8  | 2977.5  | 2925.9 | 2831.8 | 2759.9 | 2676.1 | 2403.2 |
| 27.5° | 2997.8 | 3023.6 | 3090.0 | 3127.8 | 3105.6  | 3081.7  | 3030.0 | 2916.7 | 2847.5 | 2779.3 | 2479.7 |
| 30°   | 3151.7 | 3168.3 | 3238.4 | 3255.0 | 3231.9  | 3201.5  | 3146.2 | 3032.8 | 2972.0 | 2919.4 | 2590.3 |
| 32.5° | 3297.4 | 3333.3 | 3391.4 | 3387.7 | 3356.4  | 3341.6  | 3290.9 | 3170.2 | 3136.0 | 3130.5 | 2745.2 |
| 35°   | 3443.0 | 3470.7 | 3522.3 | 3535.2 | 3507.5  | 3504.8  | 3467.9 | 3378.5 | 3379.4 | 3415.4 | 2986.7 |
| 37.5° | 3568.4 | 3593.3 | 3654.1 | 3682.7 | 3688.2  | 3702.1  | 3687.3 | 3628.3 | 3712.2 | 3810.8 | 3306.6 |
| 40°   | 3673.5 | 3708.5 | 3785.9 | 3835.7 | 3892.9  | 3943.6  | 3946.3 | 3959.2 | 4127.9 | 4297.5 | 3724.2 |
| 42.5° | 3755.5 | 3804.4 | 3916.8 | 4009.0 | 4139.9  | 4204.4  | 4256.1 | 4327.0 | 4611.0 | 4864.5 | 4216.4 |
| 45°   | 3862.4 | 3918.7 | 4058.8 | 4203.5 | 4408.2  | 4514.2  | 4586.1 | 4776.0 | 5178.8 | 5524.5 | 4721.6 |
| 47.5° | 4039.4 | 4068.9 | 4211.8 | 4422.9 | 4692.1  | 4843.3  | 4983.4 | 5271.0 | 5788.1 | 6097.9 | 5141.9 |
| 50°   | 4267.1 | 4286.5 | 4394.3 | 4687.5 | 5035.9  | 5235.0  | 5490.4 | 5828.7 | 6420.5 | 6573.5 | 5379.8 |
| 52.5° | 4518.8 | 4525.2 | 4606.4 | 4978.8 | 5421.3  | 5672.0  | 5957.8 | 6375.3 | 6935.8 | 6912.8 | 5537.4 |
| 55°   | 4811.0 | 4801.8 | 4870.9 | 5295.0 | 5877.6  | 6164.2  | 6497.0 | 6934.9 | 7382.9 | 7153.4 | 5627.7 |
| 57.5° | 5145.6 | 5120.7 | 5188.0 | 5714.4 | 6462.0  | 6804.9  | 7143.2 | 7417.9 | 7729.5 | 7355.2 | 5671.1 |
| 60°   | 5495.9 | 5446.1 | 5526.3 | 6185.4 | 7150.6  | 7476.0  | 7757.2 | 7830.9 | 8094.5 | 7515.6 | 5596.4 |
| 62.5° | 5775.2 | 5776.2 | 5925.5 | 6686.9 | 7858.6  | 8143.4  | 8292.7 | 8359.1 | 8408.9 | 7480.6 | 5203.7 |
| 65°   | 6211.3 | 6226.0 | 6464.8 | 7382.9 | 8678.1  | 8925.1  | 9027.4 | 8811.7 | 8422.7 | 7045.5 | 4613.7 |
| 67.5° | 6661.1 | 6708.1 | 7145.1 | 8341.6 | 9624.8  | 9823.9  | 9692.1 | 8899.3 | 8046.6 | 6052.7 | 3498.3 |
| 70°   | 6807.7 | 6885.1 | 7605.1 | 9001.6 | 10192.6 | 10295.9 | 9849.7 | 8490.9 | 6726.6 | 4046.8 | 1760.7 |
| 72.5° | 6238.0 | 6363.4 | 7340.5 | 8761.0 | 9830.3  | 9740.9  | 8812.7 | 7121.1 | 4276.3 | 1536.7 | 537.4  |
| 75°   | 4399.0 | 4454.3 | 6100.6 | 7267.7 | 7906.5  | 7653.0  | 6703.5 | 4590.7 | 1758.8 | 431.4  | 184.4  |
| 77.5° | 2271.4 | 2244.6 | 3628.3 | 4822.1 | 5638.8  | 5376.1  | 4389.7 | 2376.5 | 666.5  | 179.8  | 114.3  |
| 80°   | 1174.4 | 1193.8 | 1569.9 | 2526.7 | 3442.1  | 3167.4  | 2340.5 | 1101.6 | 354.9  | 99.6   | 87.6   |
| 82.5° | 658.2  | 617.6  | 902.5  | 1103.4 | 1609.5  | 1262.0  | 897.9  | 779.9  | 154.9  | 59.9   | 83.0   |
| 85°   | 119.8  | 125.4  | 495.0  | 596.4  | 558.6   | 354.9   | 289.5  | 520.8  | 45.2   | 33.2   | 58.1   |
| 87.5° | 1.8    | 1.8    | 95.9   | 171.5  | 108.8   | 49.8    | 91.3   | 74.7   | 9.2    | 12.9   | 10.1   |
| 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°    | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 | 2140.5 |
| 2.5°  | 2130.3 | 2095.3 | 2029.9 | 1965.3 | 1883.3 | 1816.0 | 1770.8 | 1723.8 | 1675.9 | 1679.6 | 1690.6 |
| 5°    | 2093.5 | 2032.6 | 1903.6 | 1767.1 | 1636.2 | 1518.2 | 1402.1 | 1297.9 | 1255.5 | 1216.8 | 1218.7 |
| 7.5°  | 2056.6 | 1970.9 | 1781.9 | 1568.0 | 1369.8 | 1168.9 | 1023.2 | 903.4  | 839.8  | 791.8  | 778.0  |
| 10°   | 2040.0 | 1926.6 | 1670.3 | 1376.3 | 1095.1 | 875.7  | 688.6  | 590.9  | 515.3  | 491.3  | 497.8  |
| 12.5° | 2047.4 | 1904.5 | 1569.9 | 1203.0 | 868.4  | 610.2  | 479.3  | 429.6  | 413.0  | 410.2  | 408.4  |
| 15°   | 2061.2 | 1888.8 | 1471.2 | 1011.2 | 637.9  | 453.5  | 402.8  | 393.6  | 391.8  | 389.9  | 390.9  |
| 17.5° | 2079.6 | 1875.0 | 1366.1 | 831.5  | 489.5  | 396.4  | 381.6  | 377.0  | 376.1  | 376.1  | 376.1  |
| 20°   | 2098.1 | 1859.3 | 1249.1 | 671.1  | 408.4  | 374.3  | 365.0  | 362.3  | 361.4  | 361.4  | 360.4  |
| 22.5° | 2119.3 | 1845.5 | 1130.2 | 527.3  | 376.1  | 358.6  | 350.3  | 348.4  | 347.5  | 346.6  | 346.6  |
| 25°   | 2149.7 | 1828.0 | 1003.9 | 431.4  | 355.8  | 343.8  | 335.5  | 333.7  | 332.8  | 329.1  | 330.0  |
| 27.5° | 2190.3 | 1815.1 | 873.9  | 372.4  | 337.4  | 325.4  | 319.9  | 317.1  | 315.3  | 312.5  | 313.4  |
| 30°   | 2245.6 | 1804.0 | 735.6  | 340.2  | 316.2  | 306.0  | 300.5  | 298.7  | 296.8  | 294.1  | 294.1  |
| 32.5° | 2341.4 | 1808.6 | 590.0  | 314.3  | 296.8  | 284.8  | 279.3  | 277.5  | 275.6  | 272.9  | 272.9  |
| 35°   | 2485.2 | 1835.4 | 472.0  | 292.2  | 273.8  | 261.8  | 256.3  | 256.3  | 253.5  | 249.8  | 248.9  |
| 37.5° | 2720.3 | 1903.6 | 378.9  | 271.0  | 251.7  | 240.6  | 234.1  | 232.3  | 229.5  | 224.0  | 223.1  |
| 40°   | 2997.8 | 2009.6 | 319.0  | 249.8  | 231.4  | 220.3  | 214.8  | 209.3  | 201.9  | 196.3  | 195.4  |
| 42.5° | 3346.2 | 2118.4 | 276.5  | 228.6  | 212.0  | 201.9  | 195.4  | 186.2  | 175.1  | 167.8  | 166.9  |
| 45°   | 3709.4 | 2217.9 | 248.0  | 209.3  | 193.6  | 185.3  | 177.9  | 163.2  | 149.3  | 140.1  | 139.2  |
| 47.5° | 3980.4 | 2236.3 | 224.9  | 190.8  | 177.9  | 169.6  | 159.5  | 141.0  | 122.6  | 114.3  | 111.5  |
| 50°   | 4108.6 | 2146.9 | 201.0  | 172.4  | 162.2  | 153.0  | 140.1  | 118.9  | 98.6   | 88.5   | 86.7   |
| 52.5° | 4153.7 | 1992.1 | 181.6  | 155.8  | 146.6  | 135.5  | 119.8  | 95.9   | 77.4   | 67.3   | 66.4   |
| 55°   | 4135.3 | 1796.6 | 164.1  | 140.1  | 128.1  | 115.2  | 99.6   | 76.5   | 57.2   | 48.9   | 47.0   |
| 57.5° | 4038.5 | 1547.7 | 146.6  | 124.4  | 109.7  | 96.8   | 79.3   | 57.2   | 38.7   | 31.3   | 30.4   |
| 60°   | 3777.6 | 1208.5 | 129.1  | 106.9  | 93.1   | 79.3   | 62.7   | 40.6   | 24.0   | 17.5   | 17.5   |
| 62.5° | 3337.0 | 896.9  | 112.5  | 89.4   | 78.4   | 63.6   | 44.2   | 25.8   | 12.9   | 9.2    | 8.3    |
| 65°   | 2788.5 | 661.9  | 94.0   | 75.6   | 65.4   | 49.8   | 31.3   | 15.7   | 6.5    | 2.8    | 1.8    |
| 67.5° | 1946.0 | 408.4  | 78.4   | 61.8   | 53.5   | 36.0   | 19.4   | 6.5    | 2.8    | 0.0    | 0.0    |
| 70°   | 884.0  | 194.5  | 59.9   | 47.0   | 40.6   | 25.8   | 10.1   | 3.7    | 1.8    | 0.0    | 0.0    |
| 72.5° | 274.7  | 102.3  | 42.4   | 34.1   | 27.7   | 16.6   | 5.5    | 2.8    | 1.8    | 0.0    | 0.0    |
| 75°   | 127.2  | 65.4   | 26.7   | 18.4   | 15.7   | 8.3    | 3.7    | 1.8    | 0.9    | 0.0    | 0.0    |
| 77.5° | 94.9   | 50.7   | 15.7   | 10.1   | 8.3    | 5.5    | 2.8    | 1.8    | 0.9    | 0.0    | 0.0    |
| 80°   | 83.0   | 25.8   | 9.2    | 6.5    | 4.6    | 3.7    | 1.8    | 0.9    | 0.0    | 0.0    | 0.0    |
| 82.5° | 74.7   | 12.9   | 5.5    | 3.7    | 2.8    | 1.8    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    |
| 85°   | 40.6   | 7.4    | 3.7    | 2.8    | 1.8    | 0.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.4    | 3.7    | 2.8    | 1.8    | 1.8    | 0.9    | 0.9    | 0.9    | 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)