

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: P451388

Luminaire Tested: **GLAN-SA2B-730-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-730-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10329 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82  
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

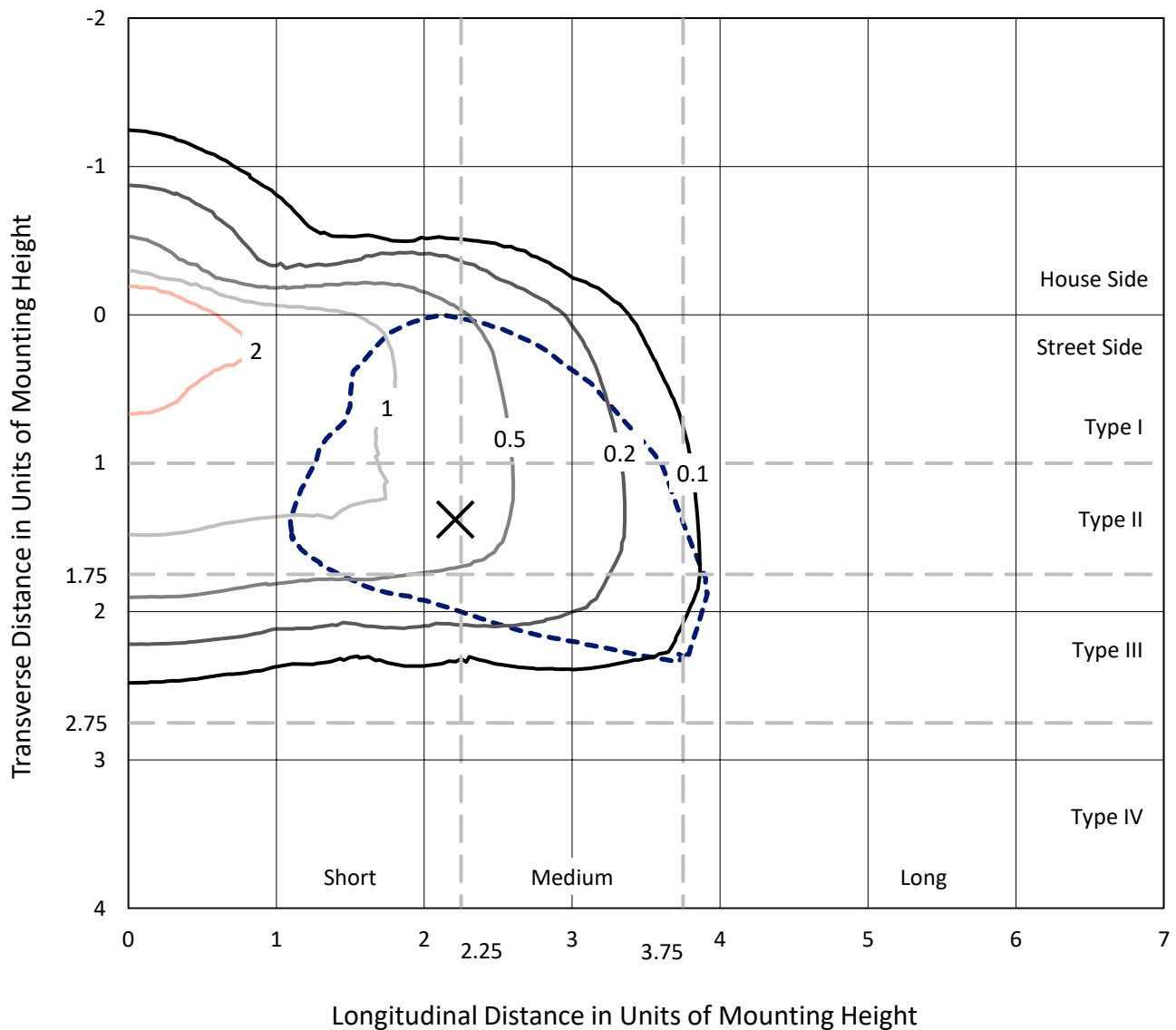


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## Iso-Footcandle Lines of Horizontal Illumination

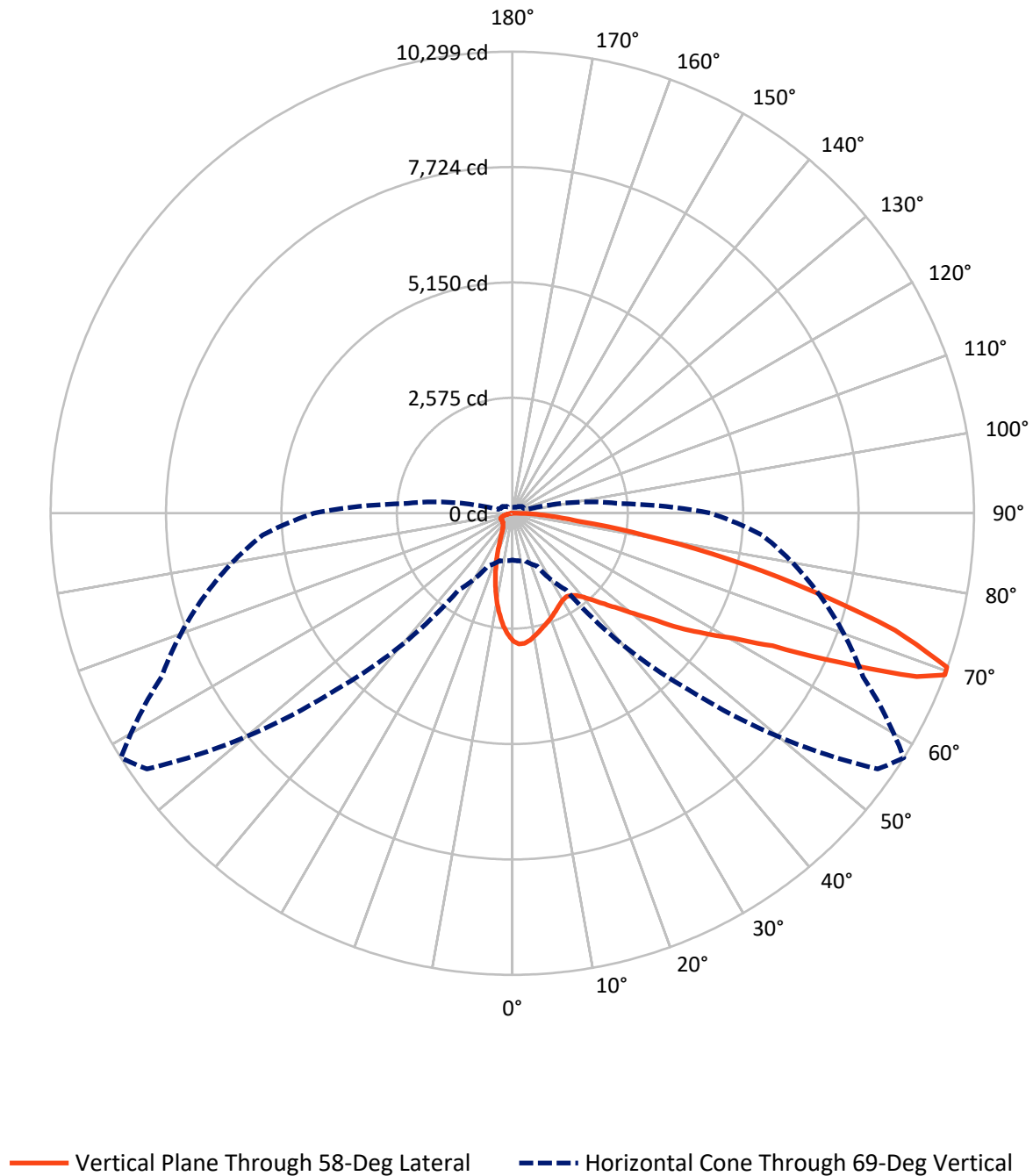
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1513.7   | 0.0    | 1513.7  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 8815.3   | 0.0    | 8815.3  |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 10329.0  | 0.0    | 10329.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 242.4   | 2.3       |
| 10°-20°   | 532.3   | 5.2       |
| 20°-30°   | 687.7   | 6.7       |
| 30°-40°   | 893.2   | 8.6       |
| 40°-50°   | 1298.6  | 12.6      |
| 50°-60°   | 2072.1  | 20.1      |
| 60°-70°   | 2768.1  | 26.8      |
| 70°-80°   | 1595.7  | 15.4      |
| 80°-90°   | 239.0   | 2.3       |
| 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°    | 10329.0 | 100.0     |
| 0°-180°   | 10329.0 | 100.0     |

**Coefficient of Utilization**



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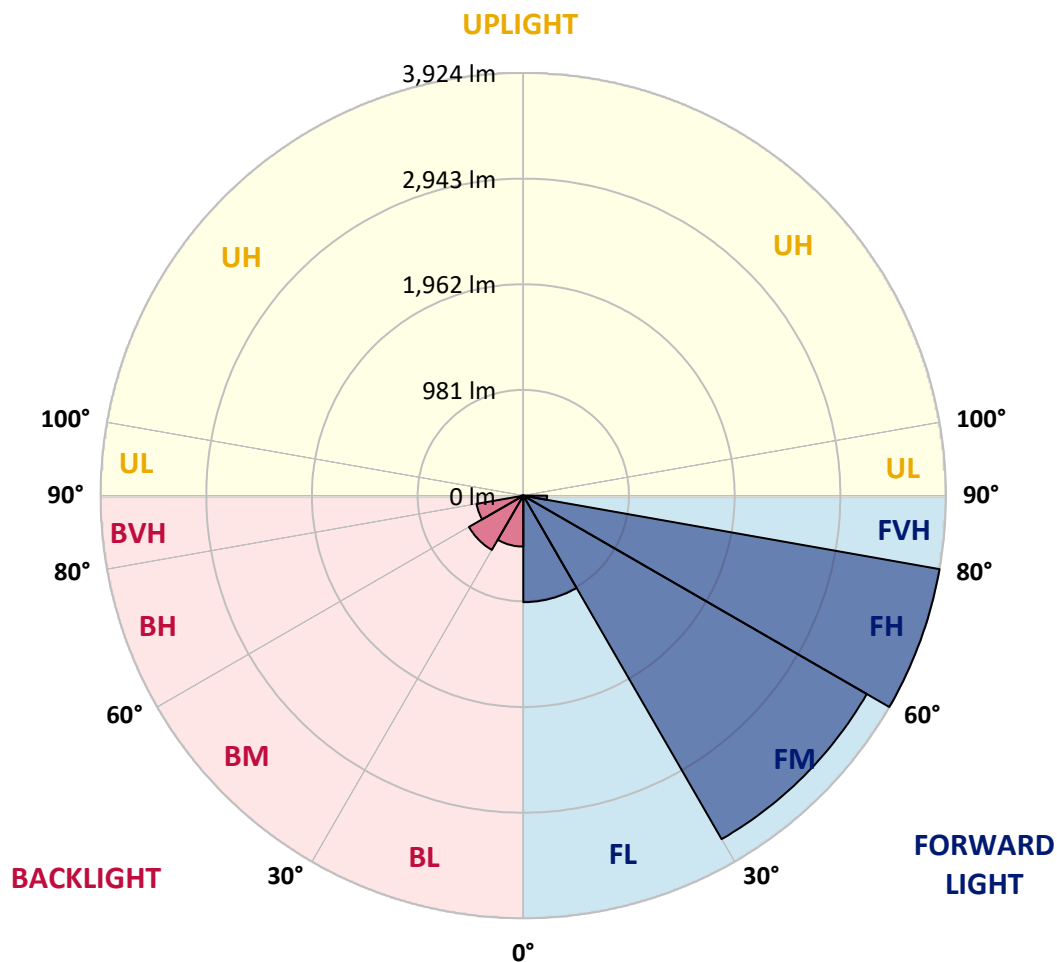
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 989.3  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 3681.8 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 3923.6 | 38.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 220.7  | 2.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 473.1  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 582.1  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 440.2  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 18.3   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0°    | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3  | 2854.3 | 2854.3 | 2854.3 |
| 2.5°  | 2960.3 | 2968.4 | 2966.1 | 2963.2 | 2958.6 | 2945.9 | 2925.2 | 2921.7  | 2908.5 | 2880.3 | 2845.1 |
| 5°    | 2914.8 | 2921.7 | 2922.3 | 2926.3 | 2932.1 | 2929.8 | 2914.8 | 2913.1  | 2893.5 | 2855.5 | 2796.7 |
| 7.5°  | 2758.7 | 2767.9 | 2788.1 | 2810.6 | 2830.7 | 2849.7 | 2854.3 | 2857.2  | 2845.1 | 2801.3 | 2723.0 |
| 10°   | 2583.0 | 2592.2 | 2601.4 | 2634.9 | 2684.4 | 2731.6 | 2770.8 | 2776.0  | 2778.9 | 2738.5 | 2642.9 |
| 12.5° | 2388.3 | 2407.3 | 2426.9 | 2476.4 | 2542.7 | 2617.0 | 2686.1 | 2697.1  | 2716.7 | 2686.1 | 2573.8 |
| 15°   | 2223.0 | 2242.6 | 2270.8 | 2315.1 | 2395.2 | 2502.4 | 2599.7 | 2617.6  | 2656.2 | 2640.6 | 2509.3 |
| 17.5° | 2108.3 | 2115.3 | 2134.8 | 2185.5 | 2271.9 | 2384.8 | 2515.0 | 2550.8  | 2612.4 | 2608.4 | 2454.0 |
| 20°   | 2017.9 | 2026.5 | 2038.6 | 2069.7 | 2159.6 | 2278.9 | 2436.1 | 2482.2  | 2565.7 | 2579.6 | 2399.3 |
| 22.5° | 1979.9 | 1986.2 | 1984.5 | 2001.2 | 2062.3 | 2182.1 | 2356.0 | 2410.8  | 2524.3 | 2560.0 | 2348.6 |
| 25°   | 1982.2 | 1988.0 | 1979.3 | 1975.3 | 2011.6 | 2096.8 | 2272.5 | 2342.2  | 2490.8 | 2546.7 | 2302.5 |
| 27.5° | 2020.8 | 2024.8 | 2008.7 | 1992.6 | 1995.4 | 2043.8 | 2203.4 | 2280.6  | 2462.6 | 2552.5 | 2263.9 |
| 30°   | 2072.6 | 2080.1 | 2069.7 | 2050.2 | 2028.9 | 2031.2 | 2159.0 | 2235.1  | 2449.4 | 2572.6 | 2245.4 |
| 32.5° | 2139.5 | 2146.4 | 2141.8 | 2126.2 | 2098.6 | 2068.0 | 2148.1 | 2218.4  | 2450.5 | 2613.5 | 2241.4 |
| 35°   | 2209.7 | 2223.6 | 2231.0 | 2229.9 | 2207.4 | 2154.4 | 2191.3 | 2249.5  | 2478.2 | 2682.1 | 2265.0 |
| 37.5° | 2289.2 | 2300.7 | 2333.0 | 2353.7 | 2333.0 | 2271.4 | 2288.6 | 2329.0  | 2539.2 | 2781.2 | 2316.9 |
| 40°   | 2366.4 | 2383.7 | 2430.9 | 2495.5 | 2487.4 | 2433.2 | 2437.3 | 2463.8  | 2647.0 | 2928.6 | 2418.3 |
| 42.5° | 2447.1 | 2467.8 | 2550.2 | 2645.8 | 2664.8 | 2622.8 | 2633.7 | 2657.3  | 2800.2 | 3133.1 | 2592.2 |
| 45°   | 2550.8 | 2575.5 | 2676.9 | 2796.1 | 2871.0 | 2845.1 | 2876.2 | 2887.7  | 3005.3 | 3399.3 | 2821.5 |
| 47.5° | 2684.4 | 2713.2 | 2838.2 | 2986.8 | 3092.8 | 3116.4 | 3170.6 | 3163.7  | 3259.3 | 3714.4 | 3118.7 |
| 50°   | 2909.6 | 2925.8 | 3043.9 | 3195.4 | 3341.1 | 3447.7 | 3506.4 | 3517.4  | 3574.4 | 4020.8 | 3451.1 |
| 52.5° | 3177.5 | 3191.9 | 3277.2 | 3409.6 | 3592.3 | 3818.1 | 3963.2 | 3927.5  | 3941.3 | 4394.1 | 3840.0 |
| 55°   | 3478.8 | 3503.0 | 3557.1 | 3645.2 | 3882.0 | 4214.4 | 4505.9 | 4514.5  | 4361.3 | 4751.3 | 4212.7 |
| 57.5° | 3712.1 | 3753.0 | 3845.7 | 3971.3 | 4271.4 | 4655.1 | 5046.8 | 5052.5  | 4856.7 | 5132.6 | 4624.0 |
| 60°   | 3594.6 | 3642.9 | 3854.9 | 4160.8 | 4782.4 | 5424.1 | 5693.1 | 5660.3  | 5338.8 | 5567.0 | 5125.7 |
| 62.5° | 3087.6 | 3096.3 | 3404.5 | 3882.6 | 4939.6 | 6452.9 | 6655.1 | 6516.3  | 5982.3 | 6117.7 | 5635.5 |
| 65°   | 1998.3 | 2054.8 | 2299.0 | 2969.0 | 4422.9 | 7023.8 | 8340.6 | 8019.8  | 6884.4 | 6742.7 | 6062.4 |
| 67.5° | 1261.6 | 1247.1 | 1348.5 | 1695.3 | 3042.1 | 6520.9 | 9779.0 | 9728.3  | 8064.1 | 7137.3 | 5960.4 |
| 69°   | 1046.1 | 1062.2 | 1096.8 | 1299.6 | 2093.4 | 5567.5 | 9949.0 | 10299.2 | 8636.2 | 7106.2 | 5590.0 |
| 70°   | 948.8  | 956.2  | 992.5  | 1152.1 | 1615.2 | 4663.1 | 9670.2 | 10283.7 | 8860.8 | 6976.0 | 5321.6 |
| 72.5° | 752.9  | 752.3  | 814.5  | 958.5  | 1207.4 | 2661.9 | 7940.3 | 8928.2  | 8609.7 | 6370.0 | 4397.0 |
| 75°   | 572.0  | 581.2  | 649.8  | 811.1  | 1112.4 | 1454.5 | 5541.0 | 6875.7  | 6876.3 | 5031.2 | 2743.7 |
| 77.5° | 412.5  | 418.2  | 498.3  | 680.9  | 1047.8 | 1179.2 | 3690.8 | 4931.6  | 4636.1 | 2305.4 | 862.3  |
| 80°   | 270.2  | 273.6  | 334.7  | 539.2  | 944.7  | 1112.4 | 2188.4 | 3018.5  | 2186.7 | 611.8  | 285.1  |
| 82.5° | 148.0  | 165.3  | 204.5  | 349.1  | 758.1  | 1027.7 | 1330.1 | 1527.7  | 820.3  | 272.5  | 148.6  |
| 85°   | 74.3   | 78.9   | 115.2  | 203.9  | 495.4  | 850.3  | 926.3  | 876.2   | 423.4  | 135.4  | 77.2   |
| 87.5° | 21.9   | 27.7   | 47.8   | 78.9   | 201.0  | 443.0  | 515.6  | 462.6   | 163.0  | 49.0   | 16.1   |
| 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°    | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 | 2854.3 |
| 2.5°  | 2830.7 | 2820.3 | 2774.3 | 2732.8 | 2694.8 | 2654.4 | 2620.5 | 2590.5 | 2593.4 | 2594.0 | 2563.4 |
| 5°    | 2766.2 | 2742.6 | 2655.0 | 2573.2 | 2504.1 | 2416.5 | 2341.6 | 2293.3 | 2269.1 | 2236.8 | 2248.3 |
| 7.5°  | 2678.6 | 2633.1 | 2511.6 | 2375.6 | 2248.3 | 2134.8 | 2011.6 | 1926.9 | 1872.7 | 1820.3 | 1827.2 |
| 10°   | 2588.2 | 2515.0 | 2338.2 | 2158.5 | 1993.7 | 1812.3 | 1655.0 | 1520.2 | 1420.0 | 1382.5 | 1357.8 |
| 12.5° | 2495.5 | 2399.3 | 2174.6 | 1935.5 | 1708.0 | 1490.8 | 1267.9 | 1123.3 | 1012.7 | 953.9  | 961.4  |
| 15°   | 2410.8 | 2293.8 | 2004.1 | 1712.6 | 1417.1 | 1158.4 | 936.1  | 798.4  | 721.2  | 705.1  | 714.3  |
| 17.5° | 2332.4 | 2179.2 | 1844.5 | 1496.0 | 1150.9 | 868.7  | 703.4  | 625.6  | 594.5  | 585.8  | 585.3  |
| 20°   | 2251.8 | 2081.8 | 1665.4 | 1264.4 | 896.9  | 673.4  | 577.2  | 540.9  | 535.2  | 538.6  | 539.2  |
| 22.5° | 2170.0 | 1961.5 | 1481.0 | 1034.6 | 714.3  | 550.7  | 504.6  | 494.8  | 499.4  | 507.5  | 508.7  |
| 25°   | 2094.5 | 1855.5 | 1303.6 | 833.0  | 570.3  | 483.9  | 461.4  | 461.4  | 471.8  | 483.9  | 484.5  |
| 27.5° | 2032.3 | 1752.9 | 1126.8 | 661.3  | 477.5  | 435.5  | 428.0  | 432.0  | 446.4  | 455.7  | 456.2  |
| 30°   | 1981.0 | 1657.3 | 959.7  | 530.0  | 419.9  | 396.9  | 395.2  | 402.1  | 412.5  | 421.1  | 421.7  |
| 32.5° | 1942.4 | 1573.2 | 803.6  | 445.3  | 380.2  | 367.5  | 366.9  | 372.1  | 377.9  | 380.2  | 382.5  |
| 35°   | 1927.5 | 1503.5 | 660.7  | 391.7  | 353.7  | 345.6  | 345.6  | 345.1  | 347.4  | 348.5  | 349.7  |
| 37.5° | 1939.6 | 1449.9 | 550.1  | 357.2  | 334.1  | 328.3  | 324.9  | 321.4  | 320.3  | 320.3  | 320.9  |
| 40°   | 1990.8 | 1421.7 | 467.8  | 334.7  | 320.3  | 311.6  | 305.3  | 301.3  | 297.2  | 298.4  | 299.5  |
| 42.5° | 2099.7 | 1426.9 | 411.9  | 319.7  | 308.2  | 296.1  | 286.9  | 282.3  | 279.4  | 282.8  | 282.3  |
| 45°   | 2273.1 | 1478.7 | 376.2  | 309.3  | 296.1  | 280.5  | 271.9  | 267.3  | 267.3  | 272.5  | 274.2  |
| 47.5° | 2515.6 | 1577.8 | 357.2  | 301.3  | 286.9  | 268.4  | 259.8  | 256.3  | 257.5  | 266.1  | 266.7  |
| 50°   | 2811.7 | 1750.0 | 353.7  | 297.2  | 282.3  | 259.8  | 250.0  | 246.5  | 249.4  | 258.6  | 259.8  |
| 52.5° | 3138.3 | 1971.8 | 370.4  | 297.8  | 278.2  | 254.6  | 241.9  | 236.8  | 239.6  | 247.1  | 249.4  |
| 55°   | 3525.4 | 2249.5 | 413.6  | 300.1  | 272.5  | 251.7  | 236.2  | 224.7  | 228.1  | 233.3  | 233.9  |
| 57.5° | 3920.6 | 2599.7 | 489.6  | 300.7  | 267.9  | 246.5  | 226.4  | 211.4  | 211.4  | 214.9  | 216.6  |
| 60°   | 4403.3 | 2981.1 | 589.9  | 301.3  | 268.4  | 239.1  | 213.1  | 196.4  | 194.1  | 195.9  | 196.4  |
| 62.5° | 4882.6 | 3300.2 | 606.6  | 299.5  | 274.2  | 231.6  | 198.7  | 181.5  | 177.4  | 176.8  | 175.7  |
| 65°   | 5094.0 | 3240.9 | 497.1  | 291.5  | 280.5  | 227.0  | 187.2  | 167.1  | 160.1  | 157.8  | 157.8  |
| 67.5° | 4749.5 | 2741.4 | 373.9  | 280.5  | 276.5  | 222.4  | 176.3  | 155.0  | 146.9  | 142.3  | 142.3  |
| 69°   | 4425.8 | 2438.4 | 335.8  | 273.0  | 266.1  | 214.9  | 169.4  | 148.6  | 138.8  | 133.6  | 131.9  |
| 70°   | 4175.8 | 2229.9 | 319.7  | 266.7  | 256.3  | 206.2  | 164.2  | 144.0  | 133.1  | 127.3  | 126.2  |
| 72.5° | 3332.5 | 1749.5 | 280.0  | 242.5  | 218.3  | 173.4  | 145.7  | 129.6  | 119.2  | 112.9  | 111.2  |
| 75°   | 1920.6 | 948.2  | 232.1  | 210.8  | 175.7  | 134.8  | 123.3  | 112.9  | 104.8  | 99.1   | 97.4   |
| 77.5° | 591.0  | 366.4  | 168.2  | 166.5  | 129.0  | 104.3  | 98.5   | 94.5   | 88.7   | 82.4   | 81.2   |
| 80°   | 248.9  | 186.6  | 114.1  | 112.3  | 85.8   | 72.6   | 70.9   | 70.3   | 68.0   | 62.8   | 61.1   |
| 82.5° | 136.5  | 105.4  | 79.5   | 69.1   | 51.8   | 42.1   | 43.8   | 44.4   | 42.6   | 37.4   | 34.0   |
| 85°   | 66.8   | 57.6   | 38.6   | 31.1   | 23.6   | 15.0   | 14.4   | 17.3   | 16.1   | 11.5   | 12.7   |
| 87.5° | 13.2   | 16.1   | 10.4   | 4.6    | 2.3    | 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)