

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: P847925

Luminaire Tested: **GLAN-SB4B-730-U-T2-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P847925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15919 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

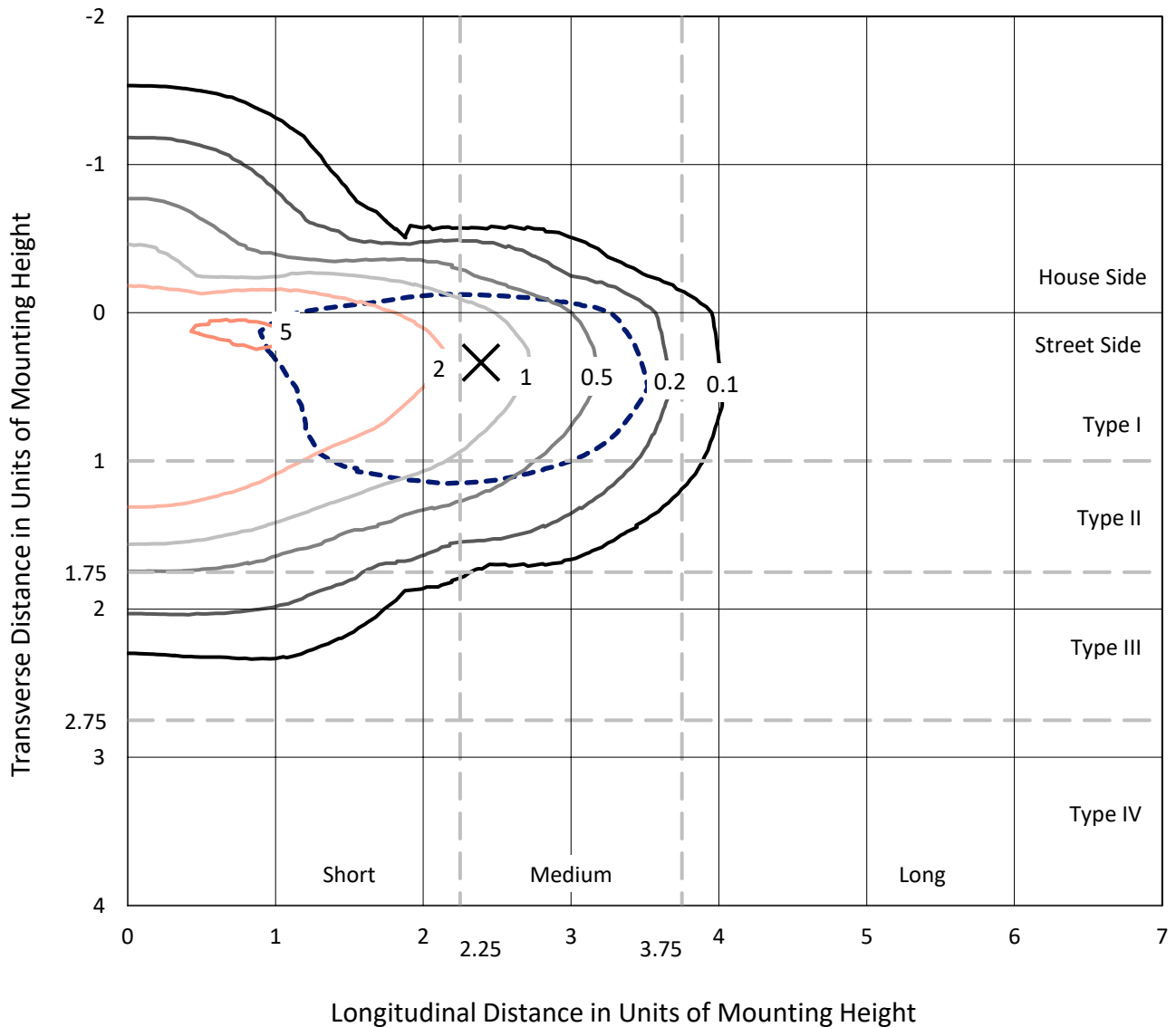
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

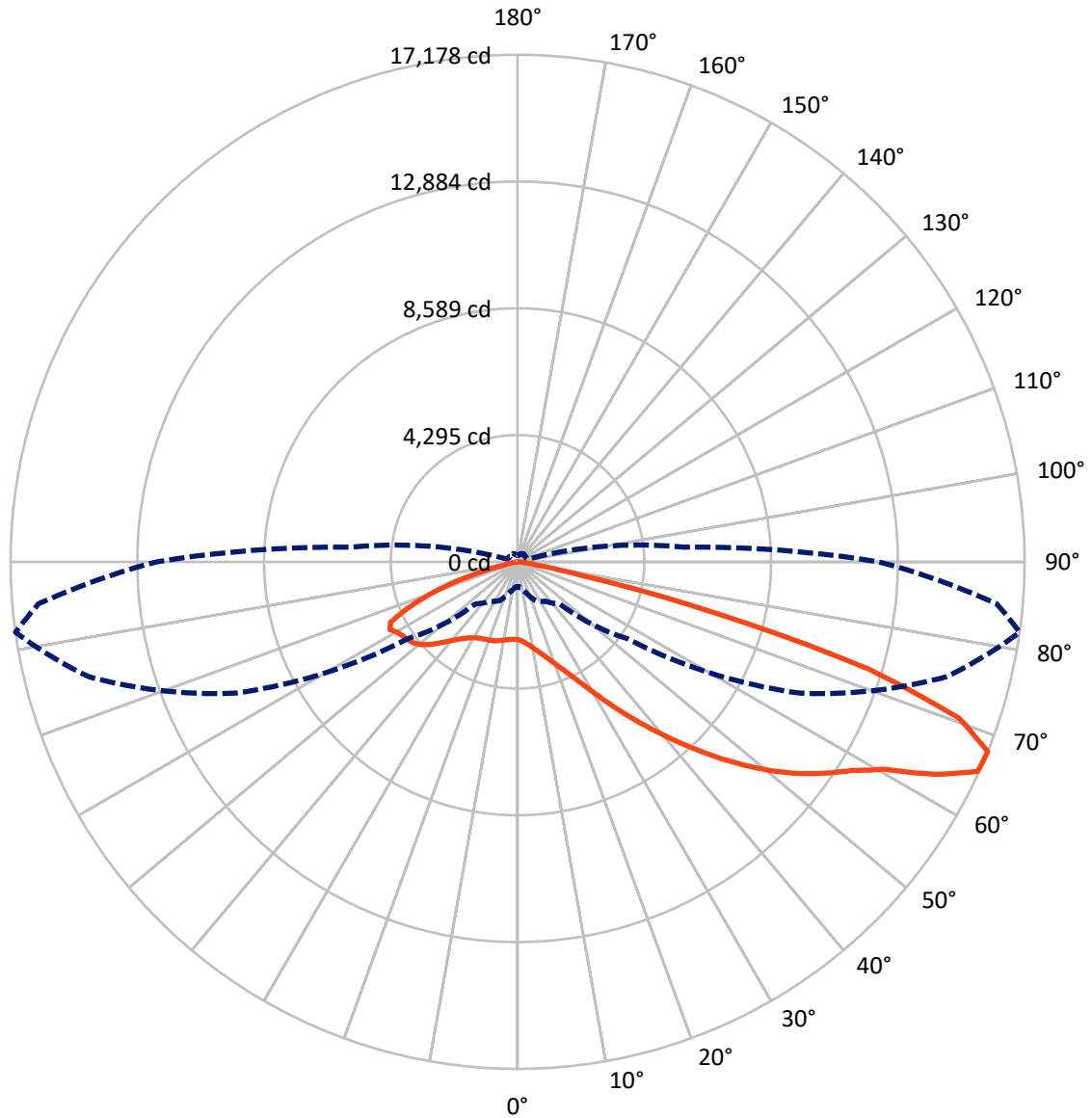
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2883.6   | 0.0    | 2883.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 13035.4  | 0.0    | 13035.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 15919.0  | 0.0    | 15919.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 235.0   | 1.5       |
| 10°-20°   | 610.6   | 3.8       |
| 20°-30°   | 977.9   | 6.1       |
| 30°-40°   | 1729.3  | 10.9      |
| 40°-50°   | 3029.9  | 19.0      |
| 50°-60°   | 4041.0  | 25.4      |
| 60°-70°   | 3761.9  | 23.6      |
| 70°-80°   | 1443.8  | 9.1       |
| 80°-90°   | 89.7    | 0.6       |
| 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°    | 15919.0 | 100.0     |
| 0°-180°   | 15919.0 | 100.0     |

**Coefficient of Utilization**



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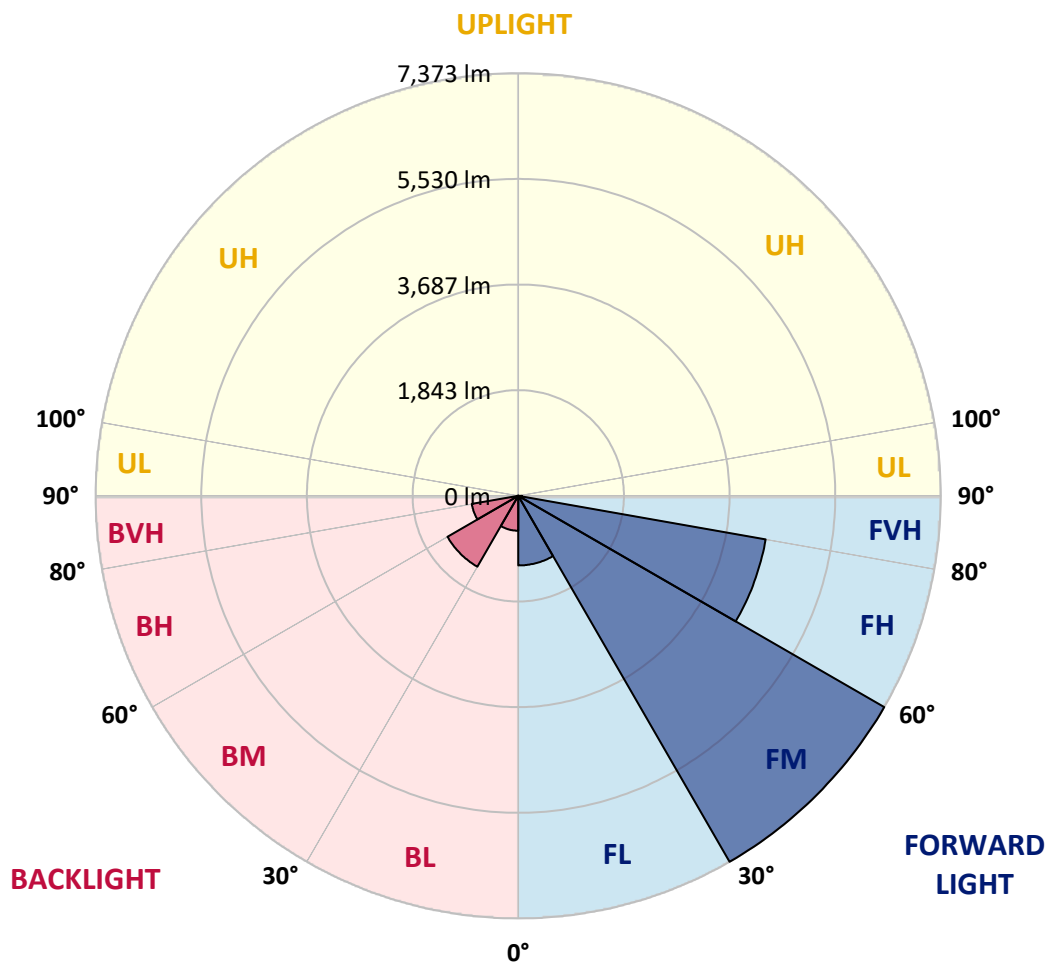
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1214.4 | 7.6       |                         |      |         |
| FM (30°-60°)   | 7373.0 | 46.3      |                         |      |         |
| FH (60°-80°)   | 4382.7 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 65.2   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 609.0  | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1427.1 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 823.0  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 24.5   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2  | 2637.2  | 2637.2  |
| 2.5°  | 2787.4 | 2803.4 | 2794.3 | 2789.7 | 2781.7 | 2770.2 | 2761.0 | 2732.4  | 2702.6  | 2683.1  |
| 5°    | 2843.5 | 2859.6 | 2858.4 | 2863.0 | 2868.8 | 2872.2 | 2869.9 | 2837.8  | 2795.4  | 2762.2  |
| 7.5°  | 2795.4 | 2813.7 | 2828.6 | 2851.6 | 2891.7 | 2934.1 | 2954.7 | 2947.8  | 2904.3  | 2858.4  |
| 10°   | 2659.0 | 2678.5 | 2714.0 | 2767.9 | 2852.7 | 2944.4 | 3021.2 | 3056.7  | 3029.2  | 2978.8  |
| 12.5° | 2409.2 | 2428.6 | 2498.6 | 2615.5 | 2757.6 | 2916.9 | 3063.6 | 3158.7  | 3165.6  | 3115.2  |
| 15°   | 2128.4 | 2147.8 | 2222.3 | 2369.0 | 2585.7 | 2841.3 | 3086.5 | 3266.5  | 3327.2  | 3283.7  |
| 17.5° | 1954.1 | 1971.3 | 2027.5 | 2145.6 | 2371.3 | 2690.0 | 3078.5 | 3381.1  | 3519.8  | 3485.4  |
| 20°   | 1901.4 | 1916.3 | 1942.7 | 2025.2 | 2213.2 | 2532.9 | 3025.8 | 3488.8  | 3727.2  | 3707.7  |
| 22.5° | 1957.6 | 1971.3 | 1979.4 | 2016.0 | 2134.1 | 2429.8 | 2959.3 | 3598.8  | 3967.9  | 3970.2  |
| 25°   | 2087.1 | 2100.9 | 2091.7 | 2114.6 | 2166.2 | 2397.7 | 2934.1 | 3728.4  | 4270.5  | 4295.7  |
| 27.5° | 2300.3 | 2301.4 | 2279.6 | 2278.5 | 2286.5 | 2445.8 | 2960.4 | 3867.0  | 4652.1  | 4699.1  |
| 30°   | 2727.8 | 2710.6 | 2626.9 | 2536.4 | 2495.1 | 2590.2 | 3033.8 | 4030.9  | 5102.6  | 5186.2  |
| 32.5° | 3386.8 | 3361.6 | 3208.0 | 2991.4 | 2773.6 | 2822.9 | 3165.6 | 4217.7  | 5593.1  | 5744.4  |
| 35°   | 4102.0 | 4095.1 | 3934.7 | 3612.6 | 3232.1 | 3154.1 | 3379.9 | 4463.0  | 6128.3  | 6369.0  |
| 37.5° | 4766.7 | 4763.3 | 4671.6 | 4292.2 | 3829.2 | 3616.0 | 3723.8 | 4783.9  | 6701.4  | 7049.8  |
| 40°   | 5374.2 | 5384.5 | 5292.8 | 4953.6 | 4487.1 | 4208.6 | 4191.4 | 5180.5  | 7338.7  | 7791.4  |
| 42.5° | 5899.1 | 5910.6 | 5817.7 | 5566.7 | 5136.9 | 4864.2 | 4765.6 | 5666.5  | 7961.0  | 8587.9  |
| 45°   | 6255.6 | 6326.6 | 6312.9 | 6112.3 | 5804.0 | 5520.9 | 5455.6 | 6276.2  | 8670.5  | 9432.6  |
| 47.5° | 6356.4 | 6421.8 | 6524.9 | 6552.4 | 6364.4 | 6085.9 | 6163.9 | 7010.9  | 9387.9  | 10278.5 |
| 50°   | 6107.7 | 6168.5 | 6382.8 | 6668.2 | 6798.8 | 6712.9 | 6852.7 | 7798.3  | 10122.6 | 11122.0 |
| 52.5° | 5617.2 | 5679.1 | 5949.5 | 6401.1 | 6934.1 | 7204.6 | 7543.8 | 8574.2  | 10834.3 | 11920.9 |
| 55°   | 4907.7 | 4973.0 | 5320.3 | 5831.5 | 6676.2 | 7407.4 | 8120.3 | 9349.0  | 11486.5 | 12639.5 |
| 57.5° | 3942.7 | 3990.8 | 4351.8 | 5067.0 | 6027.5 | 7205.7 | 8545.5 | 10194.8 | 12100.8 | 13345.5 |
| 60°   | 2569.6 | 2612.0 | 3031.5 | 3829.2 | 4952.4 | 6531.8 | 8630.3 | 11138.1 | 12916.9 | 14263.6 |
| 62.5° | 1708.9 | 1737.5 | 1986.2 | 2571.9 | 3487.7 | 5237.8 | 8134.1 | 11891.1 | 14113.4 | 15861.3 |
| 65°   | 1172.5 | 1201.1 | 1449.9 | 1857.9 | 2253.3 | 3464.7 | 6707.1 | 11791.4 | 15197.7 | 17130.0 |
| 67.5° | 836.7  | 860.7  | 1071.6 | 1456.7 | 1630.9 | 2012.6 | 4546.7 | 10516.9 | 15041.8 | 17178.2 |
| 70°   | 599.4  | 613.2  | 787.4  | 1134.7 | 1296.3 | 1209.2 | 2528.4 | 8043.5  | 13170.2 | 15862.4 |
| 72.5° | 419.5  | 424.1  | 546.7  | 864.2  | 1044.1 | 882.5  | 1203.4 | 5362.7  | 9961.0  | 12450.4 |
| 75°   | 284.2  | 290.0  | 367.9  | 633.8  | 837.8  | 673.9  | 637.2  | 2875.6  | 5847.5  | 6891.7  |
| 77.5° | 174.2  | 176.5  | 237.2  | 433.2  | 626.9  | 513.5  | 410.3  | 1218.3  | 2262.5  | 2221.2  |
| 80°   | 98.6   | 98.6   | 151.3  | 269.3  | 427.5  | 331.2  | 287.7  | 518.0   | 716.3   | 629.2   |
| 82.5° | 55.0   | 56.2   | 110.0  | 167.3  | 283.1  | 196.0  | 158.2  | 239.5   | 309.5   | 273.9   |
| 85°   | 22.9   | 25.2   | 67.6   | 79.1   | 135.2  | 97.4   | 64.2   | 100.9   | 114.6   | 102.0   |
| 87.5° | 2.3    | 3.4    | 20.6   | 14.9   | 16.0   | 19.5   | 9.2    | 19.5    | 16.0    | 16.0    |
| 90°   | 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):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2637.2  | 0°    | 2637.2  | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 | 2637.2 |
| 2676.2  | 2.5°  | 2654.4  | 2637.2 | 2593.7 | 2543.3 | 2476.8 | 2444.7 | 2401.1 | 2371.3 | 2346.1 | 2348.4 |
| 2742.7  | 5°    | 2706.0  | 2662.5 | 2565.0 | 2443.5 | 2292.3 | 2184.5 | 2069.9 | 1990.8 | 1926.6 | 1912.9 |
| 2834.4  | 7.5°  | 2777.1  | 2708.3 | 2537.5 | 2318.6 | 2063.0 | 1869.3 | 1696.3 | 1585.1 | 1506.0 | 1480.8 |
| 2945.5  | 10°   | 2868.8  | 2769.0 | 2502.0 | 2161.6 | 1793.7 | 1547.3 | 1361.6 | 1274.5 | 1220.6 | 1202.3 |
| 3076.2  | 12.5° | 2975.3  | 2839.0 | 2455.0 | 1970.2 | 1516.3 | 1279.1 | 1161.0 | 1117.5 | 1100.3 | 1094.6 |
| 3236.7  | 15°   | 3109.4  | 2926.1 | 2383.9 | 1743.3 | 1281.4 | 1115.2 | 1064.8 | 1059.0 | 1061.3 | 1059.0 |
| 3429.2  | 17.5° | 3268.8  | 3021.2 | 2268.2 | 1509.5 | 1123.2 | 1031.5 | 1013.2 | 1017.8 | 1023.5 | 1022.3 |
| 3644.7  | 20°   | 3443.0  | 3115.2 | 2120.3 | 1302.0 | 1015.5 | 971.9  | 961.6  | 966.2  | 970.8  | 968.5  |
| 3893.4  | 22.5° | 3641.2  | 3216.0 | 1956.4 | 1140.4 | 943.3  | 916.9  | 905.4  | 906.6  | 906.6  | 902.0  |
| 4208.6  | 25°   | 3878.5  | 3327.2 | 1784.5 | 1025.8 | 888.2  | 867.6  | 853.9  | 849.3  | 842.4  | 828.7  |
| 4591.4  | 27.5° | 4161.6  | 3445.3 | 1619.5 | 945.6  | 844.7  | 825.2  | 809.2  | 797.7  | 780.5  | 757.6  |
| 5051.0  | 30°   | 4480.2  | 3588.5 | 1479.7 | 895.1  | 810.3  | 790.8  | 772.5  | 755.3  | 730.1  | 701.4  |
| 5579.3  | 32.5° | 4855.0  | 3742.1 | 1377.6 | 861.9  | 779.4  | 758.7  | 737.0  | 716.3  | 688.8  | 660.2  |
| 6173.0  | 35°   | 5302.0  | 3927.8 | 1318.0 | 839.0  | 755.3  | 727.8  | 703.7  | 680.8  | 660.2  | 635.0  |
| 6818.3  | 37.5° | 5786.8  | 4124.9 | 1299.7 | 827.5  | 739.3  | 696.8  | 669.3  | 653.3  | 651.0  | 636.1  |
| 7516.3  | 40°   | 6317.5  | 4358.7 | 1313.5 | 820.6  | 722.1  | 667.0  | 637.2  | 633.8  | 639.5  | 613.2  |
| 8262.4  | 42.5° | 6879.1  | 4636.1 | 1336.4 | 812.6  | 698.0  | 637.2  | 608.6  | 608.6  | 604.0  | 567.3  |
| 9051.0  | 45°   | 7486.5  | 4955.9 | 1359.3 | 793.1  | 669.3  | 607.4  | 585.7  | 577.6  | 558.2  | 522.6  |
| 9844.1  | 47.5° | 8098.5  | 5281.4 | 1376.5 | 757.6  | 635.0  | 582.2  | 562.7  | 544.4  | 515.8  | 483.7  |
| 10622.3 | 50°   | 8679.6  | 5573.6 | 1358.2 | 704.9  | 596.0  | 558.2  | 537.5  | 512.3  | 481.4  | 459.6  |
| 11359.3 | 52.5° | 9198.8  | 5826.9 | 1280.2 | 643.0  | 554.7  | 532.9  | 514.6  | 488.3  | 463.0  | 440.1  |
| 12024.0 | 55°   | 9650.4  | 6032.1 | 1142.7 | 584.5  | 518.0  | 511.2  | 492.8  | 459.6  | 425.2  | 405.7  |
| 12683.0 | 57.5° | 10083.6 | 6187.9 | 970.8  | 536.4  | 484.8  | 487.1  | 459.6  | 429.8  | 397.7  | 377.1  |
| 13571.3 | 60°   | 10660.1 | 6396.5 | 796.6  | 491.7  | 449.3  | 456.2  | 426.4  | 404.6  | 364.5  | 338.1  |
| 15094.5 | 62.5° | 11581.6 | 6720.9 | 632.7  | 436.7  | 408.0  | 410.3  | 397.7  | 371.3  | 323.2  | 292.3  |
| 16223.4 | 65°   | 12312.8 | 6601.7 | 498.6  | 377.1  | 361.0  | 364.5  | 364.5  | 335.8  | 284.2  | 248.7  |
| 16284.2 | 67.5° | 12230.3 | 5652.7 | 397.7  | 318.6  | 316.3  | 318.6  | 326.6  | 302.6  | 252.1  | 223.5  |
| 15044.1 | 70°   | 11266.4 | 4496.3 | 318.6  | 264.8  | 275.1  | 269.3  | 292.3  | 276.2  | 226.9  | 198.3  |
| 11663.0 | 72.5° | 9193.1  | 3239.0 | 243.0  | 218.9  | 210.9  | 220.1  | 263.6  | 248.7  | 189.1  | 157.0  |
| 6177.6  | 75°   | 5371.9  | 1728.4 | 181.1  | 173.1  | 152.4  | 183.4  | 233.8  | 212.0  | 144.4  | 115.8  |
| 1893.4  | 77.5° | 1749.0  | 602.9  | 133.0  | 127.2  | 113.5  | 147.9  | 199.4  | 178.8  | 118.1  | 91.7   |
| 554.7   | 80°   | 468.8   | 182.2  | 90.5   | 83.7   | 73.4   | 110.0  | 158.2  | 142.1  | 84.8   | 59.6   |
| 238.4   | 82.5° | 188.0   | 76.8   | 52.7   | 47.0   | 40.1   | 75.6   | 124.9  | 114.6  | 63.0   | 37.8   |
| 74.5    | 85°   | 60.7    | 25.2   | 19.5   | 14.9   | 18.3   | 47.0   | 74.5   | 77.9   | 44.7   | 19.5   |
| 11.5    | 87.5° | 8.0     | 3.4    | 3.4    | 4.6    | 3.4    | 8.0    | 22.9   | 21.8   | 12.6   | 2.3    |
| 0.0     | 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 180°   |
|--------|
| 2637.2 |
| 2325.5 |
| 1881.9 |
| 1455.6 |
| 1188.5 |
| 1091.1 |
| 1057.9 |
| 1020.1 |
| 967.3  |
| 899.7  |
| 826.4  |
| 755.3  |
| 699.1  |
| 661.3  |
| 632.7  |
| 635.0  |
| 614.3  |
| 567.3  |
| 521.5  |
| 482.5  |
| 456.2  |
| 437.8  |
| 403.4  |
| 374.8  |
| 334.7  |
| 290.0  |
| 245.3  |
| 218.9  |
| 194.8  |
| 153.6  |
| 112.3  |
| 88.3   |
| 58.5   |
| 37.8   |
| 14.9   |
| 0.0    |
| 0.0    |

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