

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: P848697

Luminaire Tested: **GLAN-SB5B-850-U-T3-HSS**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P848697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19155 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

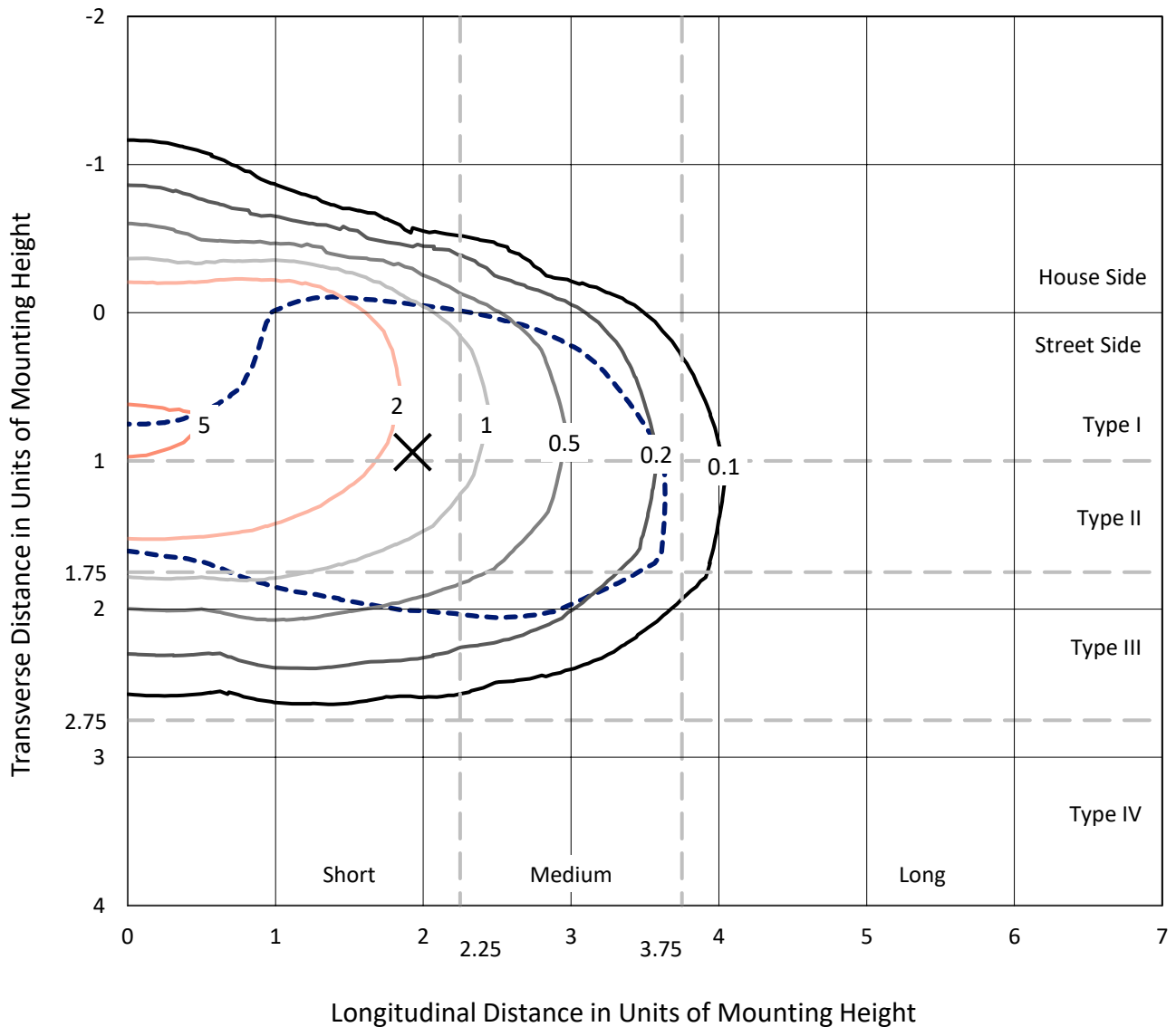
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

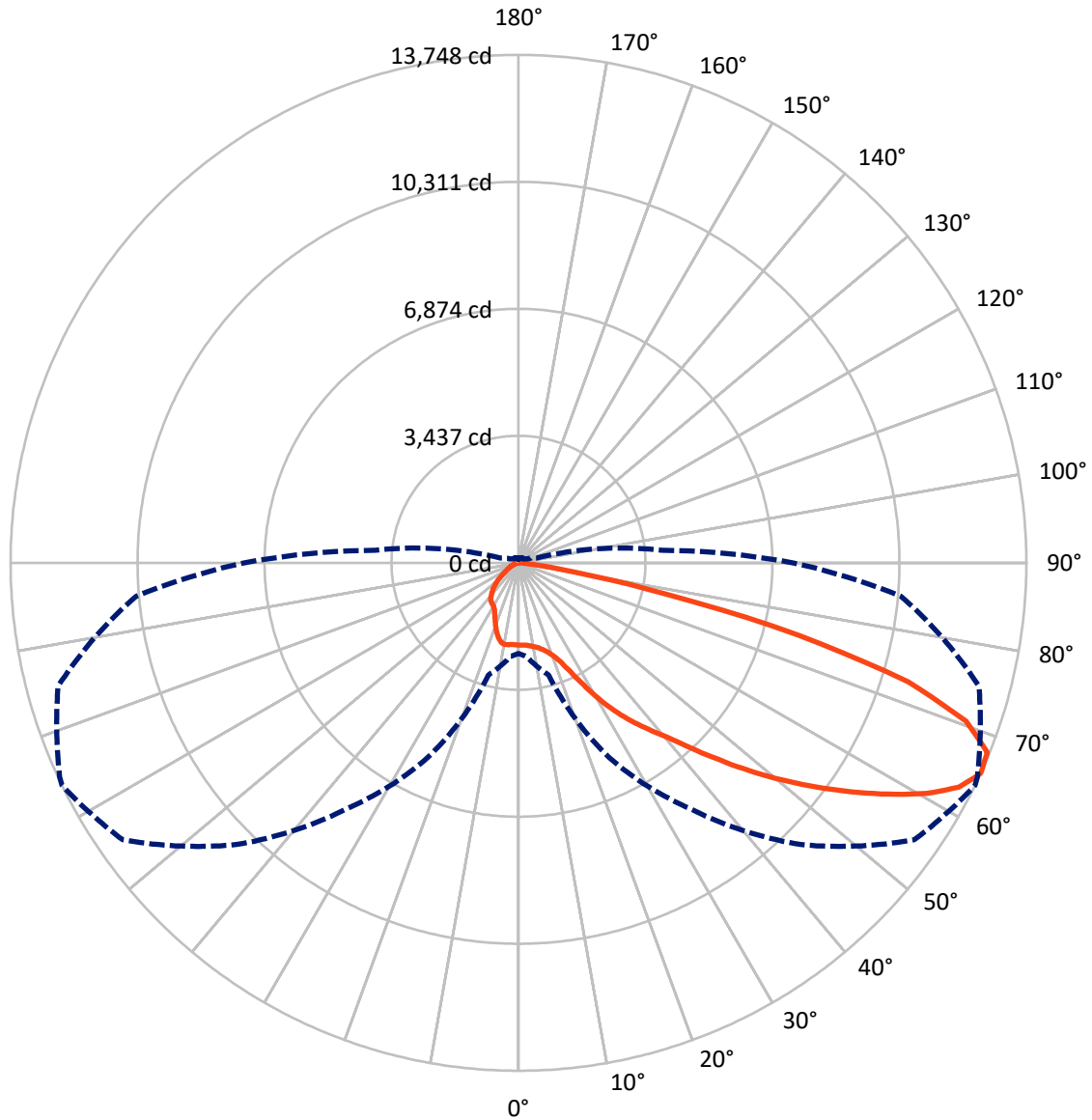
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2561.6   | 0.0    | 2561.6  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 16593.4  | 0.0    | 16593.4 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 19155.0  | 0.0    | 19155.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 205.5   | 1.1       |
| 10°-20°   | 557.5   | 2.9       |
| 20°-30°   | 1056.4  | 5.5       |
| 30°-40°   | 2137.7  | 11.2      |
| 40°-50°   | 3641.6  | 19.0      |
| 50°-60°   | 4952.3  | 25.9      |
| 60°-70°   | 4650.5  | 24.3      |
| 70°-80°   | 1863.2  | 9.7       |
| 80°-90°   | 90.3    | 0.5       |
| 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°    | 19155.0 | 100.0     |
| 0°-180°   | 19155.0 | 100.0     |

**Coefficient of Utilization**



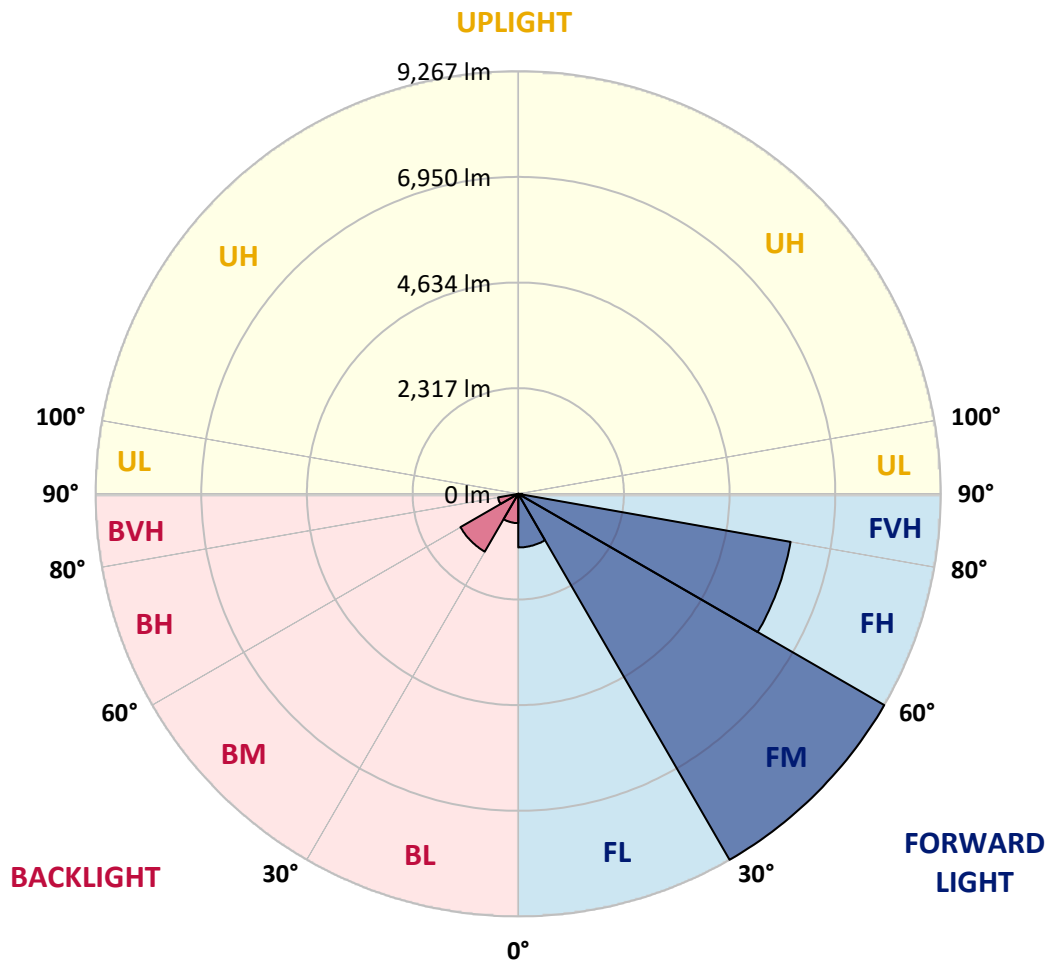
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1176.3 | 6.1       |                         |      |         |
| FM (30°-60°)   | 9267.2 | 48.4      |                         |      |         |
| FH (60°-80°)   | 6064.0 | 31.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 85.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 643.1  | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1464.4 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 449.6  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.4    | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9  | 2227.9  | 2227.9  | 2227.9  | 2227.9  | 2227.9  |
| 2.5°  | 2220.2 | 2235.6 | 2231.8 | 2227.9 | 2226.6  | 2229.2  | 2230.5  | 2229.2  | 2229.2  | 2229.2  |
| 5°    | 2177.8 | 2190.7 | 2190.7 | 2199.7 | 2212.5  | 2227.9  | 2239.5  | 2242.1  | 2244.6  | 2248.5  |
| 7.5°  | 2096.9 | 2107.2 | 2114.9 | 2144.5 | 2176.6  | 2217.7  | 2252.3  | 2270.3  | 2272.9  | 2287.0  |
| 10°   | 2041.7 | 2054.6 | 2067.4 | 2098.2 | 2144.5  | 2206.1  | 2265.2  | 2308.8  | 2315.2  | 2348.6  |
| 12.5° | 2039.2 | 2052.0 | 2068.7 | 2102.1 | 2156.0  | 2221.5  | 2293.4  | 2356.3  | 2367.9  | 2416.7  |
| 15°   | 2066.1 | 2081.5 | 2096.9 | 2138.0 | 2195.8  | 2275.4  | 2352.5  | 2430.8  | 2442.4  | 2511.7  |
| 17.5° | 2121.3 | 2141.9 | 2153.4 | 2194.5 | 2256.2  | 2344.8  | 2446.2  | 2536.1  | 2546.4  | 2627.3  |
| 20°   | 2230.5 | 2254.9 | 2258.7 | 2292.1 | 2352.5  | 2447.5  | 2568.2  | 2679.9  | 2692.8  | 2785.2  |
| 22.5° | 2456.5 | 2491.2 | 2460.3 | 2477.0 | 2531.0  | 2626.0  | 2757.0  | 2898.2  | 2916.2  | 3021.5  |
| 25°   | 2854.6 | 2903.4 | 2823.8 | 2795.5 | 2818.6  | 2917.5  | 3081.9  | 3260.3  | 3280.9  | 3365.6  |
| 27.5° | 3636.6 | 3573.7 | 3453.0 | 3334.8 | 3265.5  | 3322.0  | 3506.9  | 3727.8  | 3753.4  | 3835.6  |
| 30°   | 4495.7 | 4440.4 | 4277.4 | 4015.4 | 3851.0  | 3842.0  | 4012.8  | 4259.4  | 4288.9  | 4367.2  |
| 32.5° | 5356.0 | 5303.4 | 5126.2 | 4803.8 | 4518.8  | 4377.5  | 4495.7  | 4769.2  | 4784.6  | 4834.7  |
| 35°   | 6202.2 | 6148.3 | 5971.1 | 5641.1 | 5290.5  | 4969.5  | 4946.4  | 5254.6  | 5259.7  | 5312.4  |
| 37.5° | 7053.6 | 7008.7 | 6819.9 | 6496.3 | 6150.9  | 5707.9  | 5493.4  | 5714.3  | 5720.7  | 5772.1  |
| 40°   | 7661.0 | 7680.2 | 7550.5 | 7300.1 | 7003.5  | 6519.4  | 6107.2  | 6203.5  | 6165.0  | 6251.0  |
| 42.5° | 8182.3 | 8220.9 | 8107.9 | 7982.0 | 7809.9  | 7383.6  | 6867.4  | 6850.7  | 6789.1  | 6835.3  |
| 45°   | 8633.1 | 8665.2 | 8563.7 | 8534.2 | 8530.3  | 8231.1  | 7698.2  | 7598.1  | 7512.0  | 7503.0  |
| 47.5° | 8798.7 | 8860.3 | 8904.0 | 9002.9 | 9195.5  | 9069.6  | 8557.3  | 8401.9  | 8305.6  | 8235.0  |
| 50°   | 8861.6 | 8927.1 | 9076.1 | 9363.7 | 9819.6  | 9873.5  | 9412.5  | 9237.9  | 9119.7  | 8991.3  |
| 52.5° | 8776.9 | 8893.7 | 9094.0 | 9578.2 | 10239.5 | 10518.1 | 10233.0 | 10080.2 | 9945.4  | 9736.1  |
| 55°   | 8277.4 | 8394.2 | 8803.8 | 9575.6 | 10448.8 | 10970.1 | 11008.6 | 10940.6 | 10789.1 | 10459.1 |
| 57.5° | 7224.4 | 7397.7 | 8046.2 | 9249.4 | 10444.9 | 11359.2 | 11768.8 | 11817.6 | 11648.1 | 11175.6 |
| 60°   | 5765.6 | 6000.6 | 6791.6 | 8526.5 | 10122.6 | 11569.8 | 12435.3 | 12679.3 | 12499.5 | 11881.8 |
| 62.5° | 4023.1 | 4295.3 | 5044.0 | 7393.9 | 9385.5  | 11418.3 | 12922.0 | 13372.7 | 13236.6 | 12513.6 |
| 65°   | 2453.9 | 2541.2 | 3144.8 | 5818.3 | 8132.2  | 10783.9 | 13072.2 | 13747.6 | 13702.7 | 12900.1 |
| 67.5° | 1634.7 | 1707.9 | 1881.2 | 3989.7 | 6312.7  | 9516.5  | 12712.7 | 13682.2 | 13695.0 | 12837.2 |
| 70°   | 984.9  | 1047.8 | 1160.8 | 2320.4 | 4091.2  | 7532.6  | 11599.3 | 12847.5 | 12922.0 | 11996.1 |
| 72.5° | 405.8  | 448.2  | 550.9  | 1051.7 | 2118.8  | 4780.7  | 9236.6  | 11030.5 | 11203.8 | 10086.7 |
| 75°   | 229.9  | 251.7  | 323.6  | 527.8  | 919.4   | 2227.9  | 5594.9  | 7830.5  | 8086.0  | 6952.2  |
| 77.5° | 152.8  | 163.1  | 209.3  | 341.6  | 517.5   | 760.2   | 2391.0  | 4079.6  | 4567.6  | 3797.1  |
| 80°   | 102.7  | 111.7  | 143.8  | 228.6  | 336.4   | 326.2   | 761.5   | 1511.4  | 1859.4  | 1304.7  |
| 82.5° | 69.3   | 70.6   | 102.7  | 150.2  | 213.2   | 157.9   | 224.7   | 470.0   | 590.7   | 377.5   |
| 85°   | 39.8   | 38.5   | 75.8   | 87.3   | 95.0    | 65.5    | 68.1    | 141.3   | 184.9   | 159.2   |
| 87.5° | 5.1    | 7.7    | 29.5   | 23.1   | 12.8    | 14.1    | 14.1    | 24.4    | 36.0    | 38.5    |
| 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°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2227.9  | 0°    | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9 | 2227.9 |
| 2230.5  | 2.5°  | 2230.5 | 2229.2 | 2225.4 | 2221.5 | 2212.5 | 2207.4 | 2209.9 | 2207.4 | 2206.1 | 2207.4 |
| 2247.2  | 5°    | 2247.2 | 2243.3 | 2233.1 | 2220.2 | 2202.2 | 2180.4 | 2166.3 | 2145.7 | 2126.5 | 2114.9 |
| 2292.1  | 7.5°  | 2292.1 | 2288.3 | 2274.2 | 2238.2 | 2180.4 | 2089.2 | 2005.8 | 1932.6 | 1877.4 | 1845.3 |
| 2364.0  | 10°   | 2364.0 | 2357.6 | 2335.8 | 2256.2 | 2104.7 | 1905.6 | 1740.0 | 1602.6 | 1512.7 | 1470.3 |
| 2448.8  | 12.5° | 2448.8 | 2441.1 | 2402.6 | 2239.5 | 1960.8 | 1650.1 | 1421.5 | 1268.7 | 1185.2 | 1148.0 |
| 2546.4  | 15°   | 2549.0 | 2538.7 | 2462.9 | 2159.9 | 1751.5 | 1367.6 | 1158.3 | 1044.0 | 990.0  | 956.7  |
| 2670.9  | 17.5° | 2673.5 | 2655.5 | 2507.9 | 2040.4 | 1524.2 | 1151.8 | 996.5  | 910.4  | 862.9  | 830.8  |
| 2834.0  | 20°   | 2835.3 | 2805.8 | 2543.8 | 1897.9 | 1314.9 | 1015.7 | 887.3  | 815.4  | 779.5  | 751.2  |
| 3065.2  | 22.5° | 3061.3 | 3018.9 | 2587.5 | 1743.8 | 1167.3 | 922.0  | 806.4  | 753.8  | 724.2  | 692.1  |
| 3387.5  | 25°   | 3341.2 | 3291.2 | 2641.4 | 1601.3 | 1065.8 | 841.1  | 747.4  | 703.7  | 669.0  | 631.8  |
| 3809.9  | 27.5° | 3732.9 | 3643.0 | 2705.6 | 1484.4 | 978.5  | 771.7  | 693.4  | 644.6  | 604.8  | 574.0  |
| 4288.9  | 30°   | 4169.5 | 4021.8 | 2762.1 | 1413.8 | 898.9  | 707.5  | 622.8  | 574.0  | 536.8  | 514.9  |
| 4719.1  | 32.5° | 4583.0 | 4382.7 | 2799.4 | 1383.0 | 827.0  | 634.3  | 545.7  | 493.1  | 464.8  | 458.4  |
| 5140.3  | 35°   | 4973.3 | 4708.8 | 2795.5 | 1353.4 | 762.8  | 561.2  | 470.0  | 416.1  | 394.2  | 398.1  |
| 5593.6  | 37.5° | 5422.8 | 5056.8 | 2768.5 | 1307.2 | 710.1  | 494.4  | 404.5  | 357.0  | 337.7  | 339.0  |
| 6144.5  | 40°   | 5945.4 | 5458.7 | 2751.8 | 1219.9 | 652.3  | 432.7  | 350.6  | 312.0  | 297.9  | 292.8  |
| 6724.9  | 42.5° | 6502.7 | 5847.8 | 2754.4 | 1121.0 | 580.4  | 377.5  | 313.3  | 281.2  | 268.4  | 264.5  |
| 7370.8  | 45°   | 7062.6 | 6218.9 | 2758.3 | 1018.3 | 504.7  | 335.2  | 286.4  | 259.4  | 251.7  | 246.5  |
| 8025.7  | 47.5° | 7589.1 | 6534.8 | 2686.4 | 907.9  | 430.2  | 303.0  | 264.5  | 246.5  | 240.1  | 233.7  |
| 8683.1  | 50°   | 8079.6 | 6745.4 | 2513.0 | 779.5  | 371.1  | 277.4  | 247.8  | 235.0  | 228.6  | 222.2  |
| 9279.0  | 52.5° | 8461.0 | 6778.8 | 2226.6 | 647.2  | 330.0  | 258.1  | 237.6  | 226.0  | 218.3  | 211.9  |
| 9760.5  | 55°   | 8630.5 | 6569.5 | 1819.6 | 523.9  | 297.9  | 241.4  | 227.3  | 215.7  | 206.7  | 200.3  |
| 10139.3 | 57.5° | 8586.8 | 6129.0 | 1418.9 | 421.2  | 267.1  | 224.7  | 214.4  | 206.7  | 196.5  | 186.2  |
| 10446.2 | 60°   | 8372.4 | 5539.6 | 1069.7 | 350.6  | 238.8  | 206.7  | 200.3  | 193.9  | 179.8  | 164.4  |
| 10564.3 | 62.5° | 8001.3 | 4798.7 | 762.8  | 290.2  | 208.0  | 186.2  | 183.6  | 178.5  | 157.9  | 129.7  |
| 10389.7 | 65°   | 7433.7 | 3898.5 | 513.6  | 241.4  | 178.5  | 163.1  | 164.4  | 155.4  | 128.4  | 96.3   |
| 9750.2  | 67.5° | 6604.2 | 2850.7 | 328.7  | 197.8  | 149.0  | 136.1  | 137.4  | 132.3  | 109.1  | 82.2   |
| 8538.0  | 70°   | 5547.3 | 1887.6 | 214.4  | 150.2  | 119.4  | 105.3  | 113.0  | 114.3  | 92.5   | 66.8   |
| 6552.8  | 72.5° | 4066.8 | 1114.6 | 150.2  | 111.7  | 87.3   | 73.2   | 92.5   | 95.0   | 74.5   | 50.1   |
| 3942.2  | 75°   | 2317.8 | 529.1  | 113.0  | 80.9   | 53.9   | 51.4   | 71.9   | 71.9   | 51.4   | 33.4   |
| 1706.6  | 77.5° | 973.4  | 220.9  | 79.6   | 52.6   | 30.8   | 29.5   | 48.8   | 44.9   | 25.7   | 15.4   |
| 416.1   | 80°   | 281.2  | 98.9   | 42.4   | 25.7   | 12.8   | 11.6   | 19.3   | 14.1   | 6.4    | 2.6    |
| 157.9   | 82.5° | 110.4  | 43.7   | 16.7   | 10.3   | 5.1    | 5.1    | 2.6    | 0.0    | 0.0    | 0.0    |
| 89.9    | 85°   | 65.5   | 18.0   | 7.7    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19.3    | 87.5° | 16.7   | 3.9    | 2.6    | 0.0    | 0.0    | 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    |

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|--------|
| 180°   |
| <hr/>  |
| 2227.9 |
| 2212.5 |
| 2117.5 |
| 1846.5 |
| 1466.5 |
| 1144.1 |
| 957.9  |
| 828.2  |
| 746.1  |
| 687.0  |
| 627.9  |
| 567.6  |
| 511.1  |
| 462.3  |
| 398.1  |
| 344.1  |
| 291.5  |
| 263.2  |
| 246.5  |
| 233.7  |
| 222.2  |
| 210.6  |
| 199.0  |
| 184.9  |
| 161.8  |
| 127.1  |
| 93.7   |
| 78.3   |
| 64.2   |
| 47.5   |
| 30.8   |
| 15.4   |
| 2.6    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

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