

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: P852983

Luminaire Tested: **GLAN-SB7D-830-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61416 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

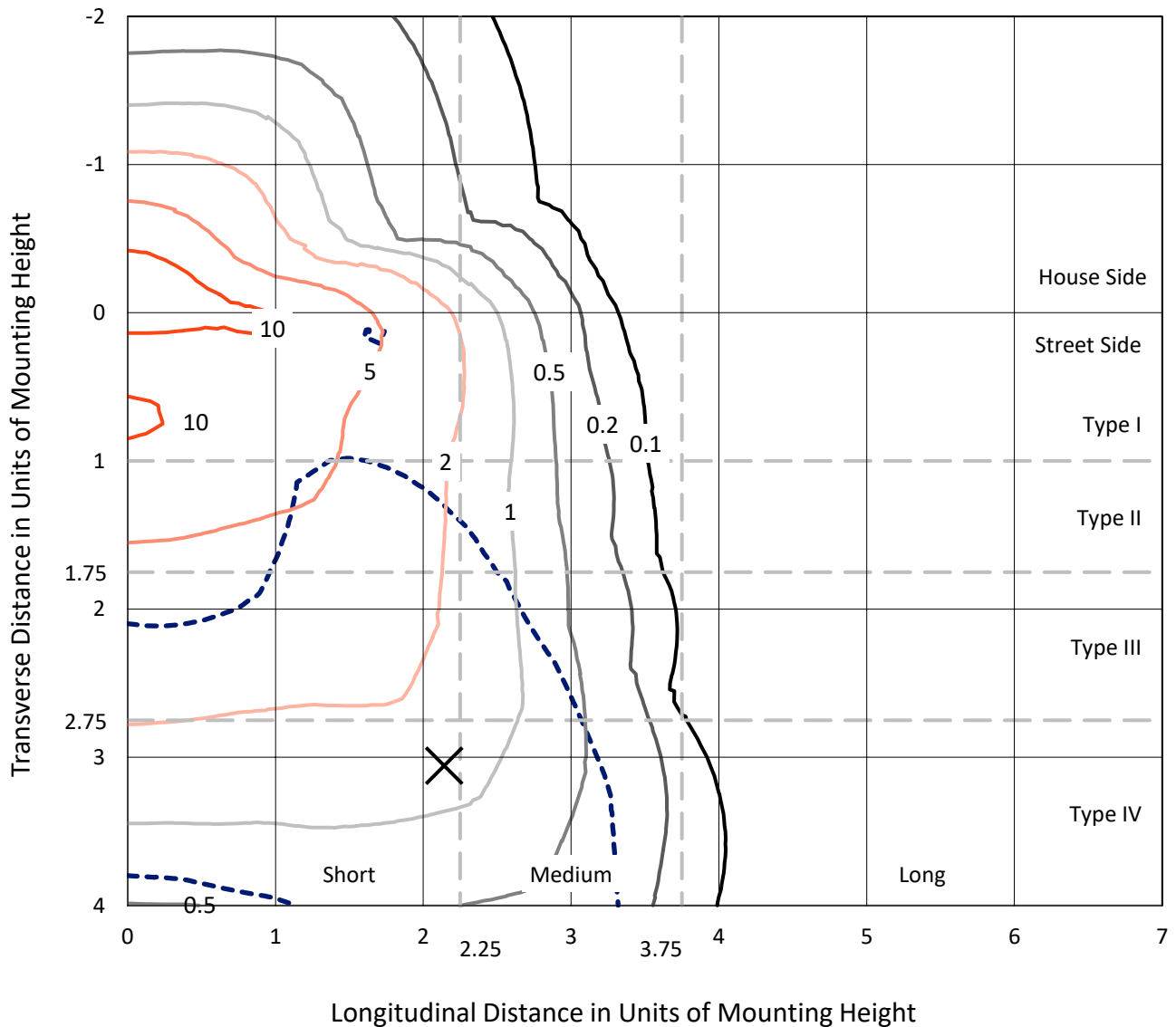
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

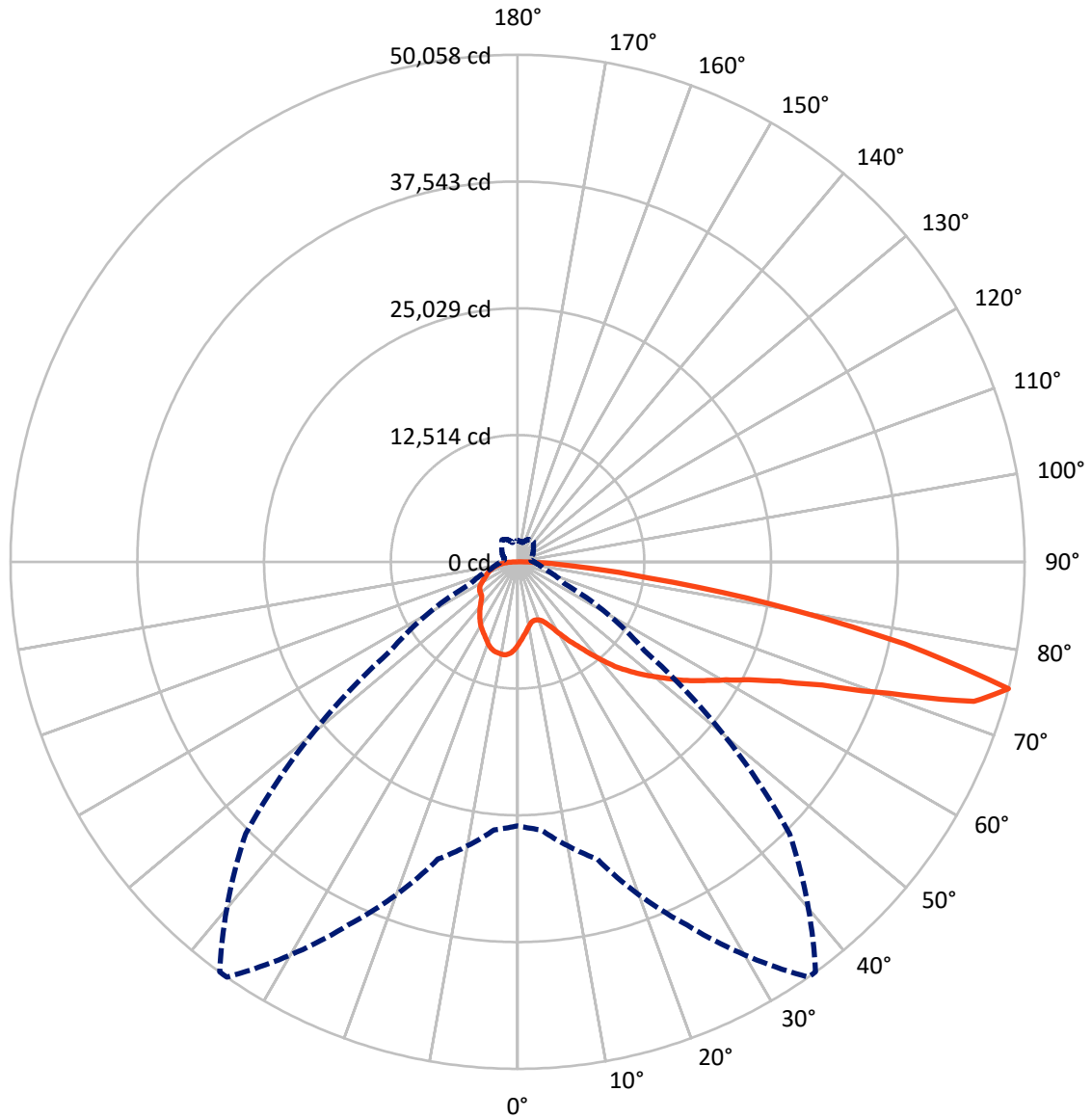
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14615.5  | 0.0    | 14615.5 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 46800.5  | 0.0    | 46800.5 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 61416.0  | 0.0    | 61416.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 774.9   | 1.3       |
| 10°-20°   | 2235.1  | 3.6       |
| 20°-30°   | 3753.3  | 6.1       |
| 30°-40°   | 5833.1  | 9.5       |
| 40°-50°   | 8657.8  | 14.1      |
| 50°-60°   | 11952.7 | 19.5      |
| 60°-70°   | 14501.3 | 23.6      |
| 70°-80°   | 11984.2 | 19.5      |
| 80°-90°   | 1723.7  | 2.8       |
| 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°    | 61416.0 | 100.0     |
| 0°-180°   | 61416.0 | 100.0     |

**Coefficient of Utilization**

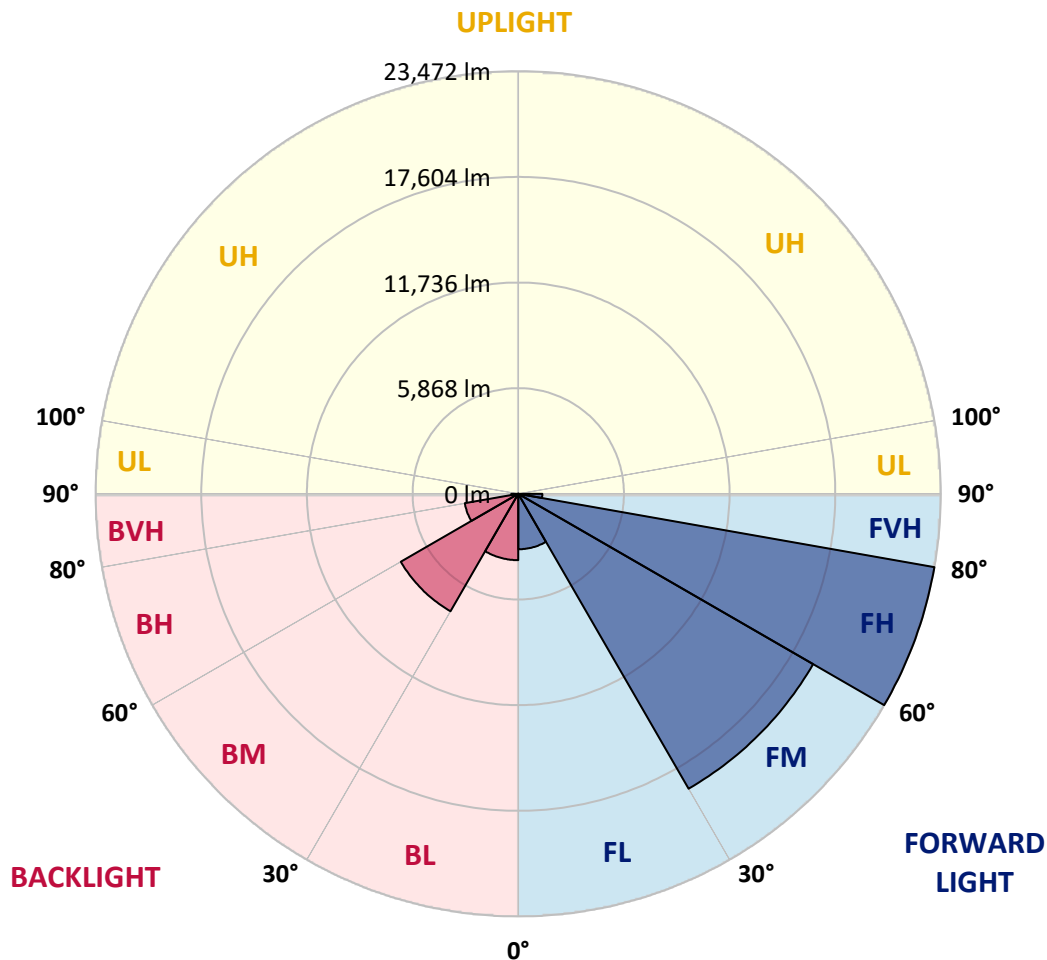


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3079.9  | 5.0       |                         |      |         |
| FM (30°-60°)   | 18912.8 | 30.8      |                         |      |         |
| FH (60°-80°)   | 23472.3 | 38.2      |                         |      | G5      |
| FVH (80°-90°)  | 1335.6  | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 3683.3  | 6.0       | B4/5000                 |      |         |
| BM (30°-60°)   | 7530.8  | 12.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 3013.3  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 388.1   | 0.6       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8184.1  | 8184.1  | 8184.1  | 8184.1  | 8184.1  | 8184.1  | 8184.1  | 8184.1  | 8184.1  | 8184.1  |
| 2.5°  | 7546.6  | 7593.1  | 7613.0  | 7603.1  | 7652.9  | 7646.2  | 7716.0  | 7802.3  | 7921.8  | 8038.0  |
| 5°    | 6965.6  | 7015.4  | 7058.6  | 7098.4  | 7194.7  | 7224.6  | 7334.1  | 7500.2  | 7719.3  | 7941.7  |
| 7.5°  | 6424.4  | 6467.6  | 6534.0  | 6607.0  | 6769.7  | 6799.6  | 6982.2  | 7241.2  | 7546.6  | 7872.0  |
| 10°   | 5982.9  | 6026.0  | 6095.7  | 6178.7  | 6381.3  | 6417.8  | 6650.2  | 6995.5  | 7393.9  | 7805.6  |
| 12.5° | 5793.6  | 5806.9  | 5846.7  | 5929.7  | 6105.7  | 6128.9  | 6384.6  | 6779.7  | 7244.5  | 7755.8  |
| 15°   | 5783.7  | 5810.2  | 5813.5  | 5856.7  | 6002.8  | 6012.7  | 6248.5  | 6640.2  | 7151.5  | 7745.8  |
| 17.5° | 5883.3  | 5903.2  | 5873.3  | 5899.9  | 6022.7  | 6039.3  | 6225.2  | 6573.8  | 7121.7  | 7789.0  |
| 20°   | 6148.9  | 6165.5  | 6075.8  | 6039.3  | 6128.9  | 6142.2  | 6324.8  | 6617.0  | 7151.5  | 7878.6  |
| 22.5° | 6713.3  | 6723.2  | 6504.1  | 6354.7  | 6361.4  | 6368.0  | 6527.4  | 6793.0  | 7267.7  | 8041.3  |
| 25°   | 7593.1  | 7586.5  | 7237.9  | 6949.0  | 6783.0  | 6746.5  | 6852.7  | 7078.5  | 7463.6  | 8257.1  |
| 27.5° | 8622.4  | 8572.6  | 8223.9  | 7792.3  | 7430.4  | 7377.3  | 7354.1  | 7450.4  | 7742.5  | 8542.7  |
| 30°   | 9784.4  | 9737.9  | 9362.7  | 8798.3  | 8297.0  | 8210.7  | 7991.5  | 7941.7  | 8157.5  | 8931.1  |
| 32.5° | 11059.3 | 11029.4 | 10581.2 | 9897.3  | 9226.6  | 9127.0  | 8758.5  | 8625.7  | 8795.0  | 9518.8  |
| 35°   | 12128.4 | 12101.8 | 11730.0 | 11026.1 | 10206.1 | 10083.2 | 9708.0  | 9558.6  | 9645.0  | 10272.5 |
| 37.5° | 13094.6 | 13081.3 | 12762.5 | 12208.1 | 11361.5 | 11212.0 | 10790.4 | 10740.6 | 10724.0 | 11265.2 |
| 40°   | 13991.0 | 13957.8 | 13625.8 | 13333.6 | 12706.1 | 12570.0 | 12198.1 | 12155.0 | 12028.8 | 12487.0 |
| 42.5° | 14983.7 | 14897.4 | 14416.0 | 14279.8 | 14110.5 | 13997.6 | 13775.2 | 13781.8 | 13502.9 | 13864.8 |
| 45°   | 15793.8 | 15744.0 | 15249.3 | 15169.6 | 15352.2 | 15305.8 | 15498.3 | 15548.1 | 15006.9 | 15309.1 |
| 47.5° | 16663.7 | 16617.2 | 16198.9 | 16142.4 | 16637.1 | 16650.4 | 17331.0 | 17347.6 | 16474.4 | 16809.8 |
| 50°   | 17736.1 | 17669.7 | 17254.7 | 17324.4 | 17878.8 | 17928.7 | 19173.7 | 19060.8 | 17825.7 | 18333.7 |
| 52.5° | 18443.3 | 18483.1 | 18393.5 | 18506.4 | 19263.3 | 19309.8 | 20986.5 | 20697.6 | 19163.7 | 19837.7 |
| 55°   | 18964.5 | 19044.2 | 19323.1 | 19582.1 | 20724.2 | 20770.7 | 22696.3 | 22254.8 | 20272.7 | 21232.2 |
| 57.5° | 19635.2 | 19522.3 | 20043.6 | 20548.2 | 22112.0 | 22234.8 | 24359.7 | 23755.5 | 21255.4 | 22434.1 |
| 60°   | 20598.0 | 20518.3 | 20923.4 | 21670.4 | 23665.8 | 23861.7 | 26119.4 | 25106.8 | 21975.9 | 23386.9 |
| 62.5° | 22550.3 | 22351.1 | 22414.1 | 23074.8 | 25624.7 | 25883.7 | 28104.8 | 26285.4 | 22334.5 | 23758.8 |
| 65°   | 25468.6 | 25126.7 | 24807.9 | 25266.1 | 28383.7 | 28639.4 | 30345.9 | 27211.7 | 22201.6 | 23038.3 |
| 67.5° | 29144.0 | 28805.4 | 28413.6 | 28845.2 | 32447.5 | 32650.1 | 33111.6 | 27733.0 | 21155.8 | 20262.7 |
| 70°   | 32175.3 | 32049.1 | 32517.3 | 34293.5 | 38938.4 | 38945.0 | 36657.5 | 27301.4 | 18290.5 | 14366.2 |
| 72.5° | 31773.6 | 31697.2 | 34164.0 | 39655.5 | 47119.2 | 46943.2 | 40014.1 | 24034.4 | 12321.0 | 6480.9  |
| 75°   | 26066.3 | 26561.0 | 30382.4 | 39559.2 | 50057.5 | 50034.2 | 37958.9 | 15279.2 | 5096.4  | 2686.0  |
| 77.5° | 13977.7 | 14761.3 | 19724.8 | 29207.1 | 39077.8 | 39665.5 | 26687.1 | 5345.4  | 2188.0  | 1719.8  |
| 80°   | 4558.5  | 5242.5  | 7862.0  | 14870.8 | 25392.3 | 25282.7 | 11437.8 | 2098.3  | 1497.4  | 1218.5  |
| 82.5° | 1935.6  | 2015.3  | 3512.7  | 7022.1  | 13031.5 | 12828.9 | 3642.2  | 1205.2  | 1052.5  | 833.4   |
| 85°   | 757.0   | 846.6   | 1550.5  | 3247.1  | 5644.2  | 5521.4  | 1314.8  | 597.6   | 674.0   | 544.5   |
| 87.5° | 249.0   | 302.1   | 554.5   | 1112.2  | 1756.3  | 1693.3  | 322.1   | 205.8   | 292.2   | 249.0   |
| 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°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8184.1  | 0°    | 8184.1  | 8184.1  | 8184.1 | 8184.1 | 8184.1 | 8184.1 | 8184.1 | 8184.1 | 8184.1 | 8184.1 |
| 8207.3  | 2.5°  | 8253.8  | 8306.9  | 8370.0 | 8463.0 | 8542.7 | 8609.1 | 8678.8 | 8722.0 | 8738.6 | 8788.4 |
| 8220.6  | 5°    | 8313.6  | 8429.8  | 8585.8 | 8738.6 | 8888.0 | 8977.6 | 9057.3 | 9097.1 | 9133.7 | 9160.2 |
| 8257.1  | 7.5°  | 8413.2  | 8562.6  | 8808.3 | 9007.5 | 9133.7 | 9206.7 | 9259.8 | 9246.5 | 9259.8 | 9266.5 |
| 8297.0  | 10°   | 8499.5  | 8708.7  | 9000.8 | 9190.1 | 9286.4 | 9289.7 | 9276.4 | 9229.9 | 9206.7 | 9210.0 |
| 8356.7  | 12.5° | 8602.4  | 8834.8  | 9150.3 | 9309.6 | 9336.2 | 9263.1 | 9206.7 | 9127.0 | 9097.1 | 9083.9 |
| 8446.4  | 15°   | 8741.9  | 9007.5  | 9312.9 | 9372.7 | 9306.3 | 9213.3 | 9117.1 | 8987.6 | 8921.2 | 8868.0 |
| 8599.1  | 17.5° | 8911.2  | 9203.4  | 9439.1 | 9395.9 | 9253.2 | 9100.5 | 8944.4 | 8748.5 | 8612.4 | 8556.0 |
| 8808.3  | 20°   | 9146.9  | 9409.2  | 9535.4 | 9346.1 | 9130.3 | 8897.9 | 8632.3 | 8393.3 | 8267.1 | 8210.7 |
| 9073.9  | 22.5° | 9432.5  | 9684.8  | 9628.3 | 9259.8 | 8954.4 | 8582.5 | 8250.5 | 8074.5 | 8011.5 | 7971.6 |
| 9415.9  | 25°   | 9774.4  | 9990.2  | 9694.8 | 9133.7 | 8665.5 | 8164.2 | 7908.5 | 7852.1 | 7822.2 | 7792.3 |
| 9834.2  | 27.5° | 10219.3 | 10335.5 | 9744.6 | 8947.7 | 8214.0 | 7719.3 | 7626.3 | 7636.3 | 7626.3 | 7576.5 |
| 10415.2 | 30°   | 10807.0 | 10783.8 | 9791.0 | 8645.6 | 7696.0 | 7317.5 | 7324.2 | 7367.3 | 7374.0 | 7340.8 |
| 11225.3 | 32.5° | 11580.6 | 11344.9 | 9814.3 | 8253.8 | 7201.3 | 6965.6 | 6972.3 | 7018.7 | 7051.9 | 6995.5 |
| 12284.4 | 35°   | 12516.9 | 11998.9 | 9777.8 | 7762.4 | 6819.5 | 6630.3 | 6580.5 | 6593.8 | 6603.7 | 6550.6 |
| 13569.3 | 37.5° | 13609.2 | 12732.7 | 9615.1 | 7217.9 | 6504.1 | 6301.6 | 6195.3 | 6105.7 | 6052.6 | 6002.8 |
| 15023.5 | 40°   | 14807.7 | 13532.8 | 9316.3 | 6686.7 | 6152.2 | 5953.0 | 5793.6 | 5624.3 | 5445.0 | 5378.6 |
| 16564.1 | 42.5° | 16062.7 | 14356.2 | 8954.4 | 6178.7 | 5747.1 | 5584.4 | 5415.1 | 5169.4 | 4900.5 | 4764.4 |
| 18164.4 | 45°   | 17364.2 | 15199.5 | 8599.1 | 5677.4 | 5332.1 | 5262.4 | 5066.5 | 4771.0 | 4478.8 | 4306.2 |
| 19768.0 | 47.5° | 18639.2 | 15996.3 | 8077.9 | 5172.7 | 4943.7 | 5020.0 | 4867.3 | 4595.0 | 4269.7 | 3997.4 |
| 21358.3 | 50°   | 19857.6 | 16743.4 | 7224.6 | 4661.4 | 4628.2 | 4947.0 | 4800.9 | 4409.1 | 4037.3 | 3688.7 |
| 22918.8 | 52.5° | 21066.2 | 17347.6 | 6132.3 | 4196.6 | 4458.9 | 4927.1 | 4714.6 | 4283.0 | 3828.1 | 3462.9 |
| 24386.3 | 55°   | 22092.1 | 17659.7 | 5079.8 | 3798.2 | 4213.2 | 4757.7 | 4611.6 | 4133.6 | 3532.6 | 3144.2 |
| 25392.3 | 57.5° | 22676.4 | 17407.4 | 4203.3 | 3406.4 | 3874.6 | 4478.8 | 4435.7 | 3814.8 | 3180.7 | 2881.9 |
| 25588.2 | 60°   | 22424.1 | 16384.8 | 3486.1 | 3064.5 | 3552.5 | 4176.7 | 4130.2 | 3499.4 | 2911.7 | 2629.5 |
| 24539.0 | 62.5° | 21033.0 | 14435.9 | 2918.4 | 2765.7 | 3260.4 | 3867.9 | 3824.8 | 3257.0 | 2705.9 | 2433.6 |
| 21753.4 | 65°   | 18230.8 | 11743.3 | 2476.8 | 2516.7 | 2964.9 | 3496.1 | 3559.2 | 3054.5 | 2543.2 | 2277.6 |
| 16829.7 | 67.5° | 13904.7 | 8506.1  | 2131.5 | 2300.8 | 2676.0 | 3130.9 | 3313.5 | 2908.4 | 2407.1 | 2154.8 |
| 9737.9  | 70°   | 7925.1  | 4830.8  | 1839.3 | 2091.7 | 2420.4 | 2792.2 | 3124.2 | 2792.2 | 2261.0 | 2051.8 |
| 3648.8  | 72.5° | 3004.7  | 2217.8  | 1590.3 | 1882.5 | 2174.7 | 2506.7 | 2915.1 | 2609.6 | 2091.7 | 1935.6 |
| 1885.8  | 75°   | 1603.6  | 1351.3  | 1338.0 | 1636.8 | 1892.5 | 2227.8 | 2652.8 | 2430.3 | 1965.5 | 2045.2 |
| 1304.8  | 77.5° | 1092.3  | 956.2   | 1118.9 | 1401.1 | 1583.7 | 1919.0 | 2373.9 | 2158.1 | 1703.2 | 1696.6 |
| 903.1   | 80°   | 757.0   | 677.3   | 909.7  | 1128.8 | 1225.1 | 1613.6 | 2071.8 | 1852.6 | 1387.8 | 1294.8 |
| 557.8   | 82.5° | 454.9   | 441.6   | 680.6  | 843.3  | 866.6  | 1245.0 | 1716.5 | 1553.8 | 1135.5 | 989.4  |
| 332.0   | 85°   | 249.0   | 262.3   | 434.9  | 494.7  | 504.7  | 869.9  | 1344.6 | 1201.9 | 873.2  | 733.7  |
| 119.5   | 87.5° | 69.7    | 89.6    | 159.4  | 195.9  | 242.4  | 451.5  | 800.1  | 713.8  | 438.3  | 305.5  |
| 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°   |
|--------|
| 8184.1 |
| 8785.0 |
| 9166.9 |
| 9276.4 |
| 9216.7 |
| 9077.2 |
| 8884.6 |
| 8559.3 |
| 8204.0 |
| 7978.2 |
| 7792.3 |
| 7586.5 |
| 7357.4 |
| 7022.1 |
| 6587.1 |
| 6036.0 |
| 5408.5 |
| 4781.0 |
| 4292.9 |
| 3967.5 |
| 3658.8 |
| 3423.0 |
| 3111.0 |
| 2842.0 |
| 2589.7 |
| 2390.5 |
| 2234.4 |
| 2114.9 |
| 2025.3 |
| 1909.1 |
| 2111.6 |
| 1563.8 |
| 1238.4 |
| 996.0  |
| 740.4  |
| 305.5  |
| 0.0    |

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