

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: P944062

Luminaire Tested: **GLAN-SB8D-830-U-SL4**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 73292 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9  
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



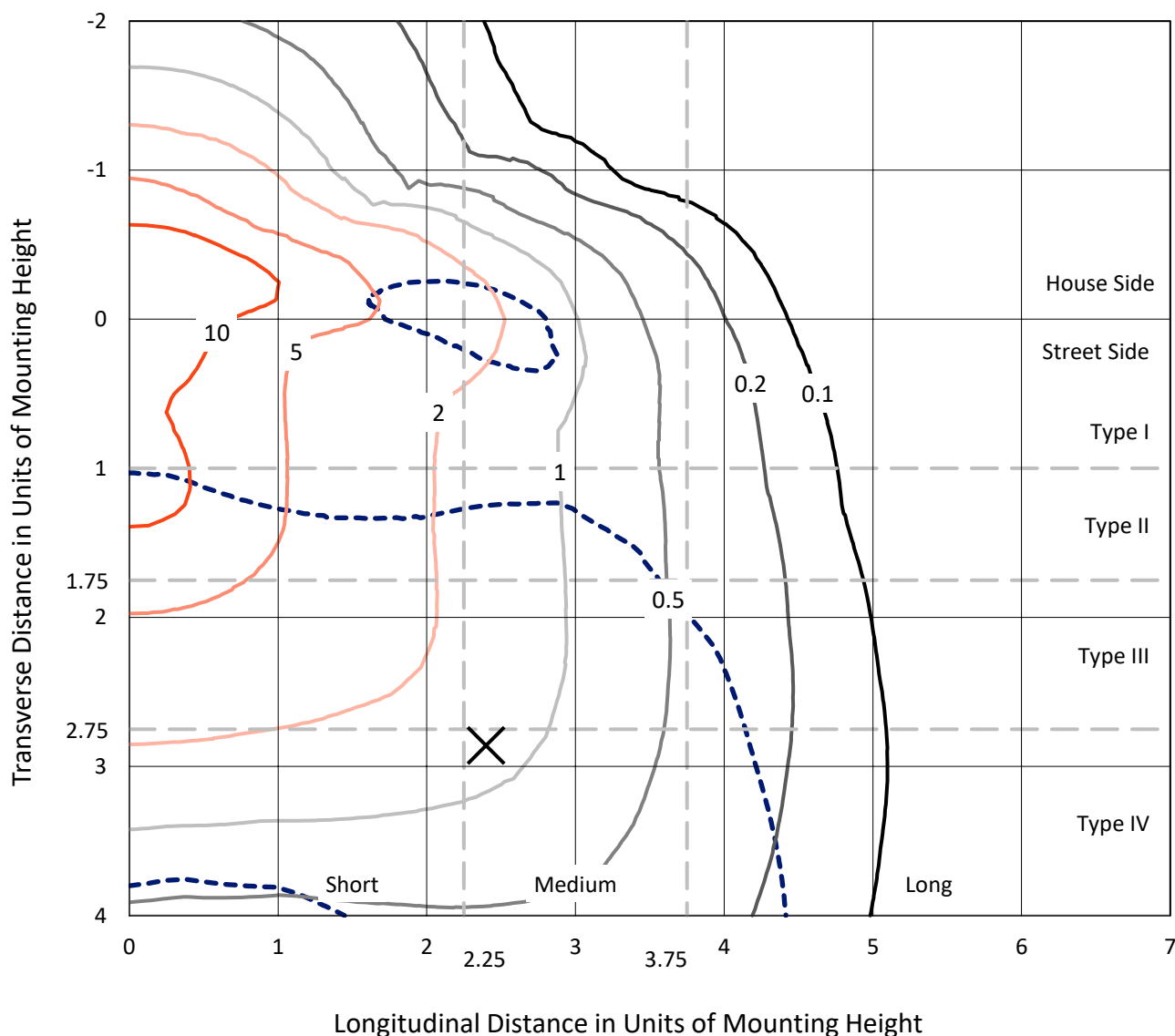
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

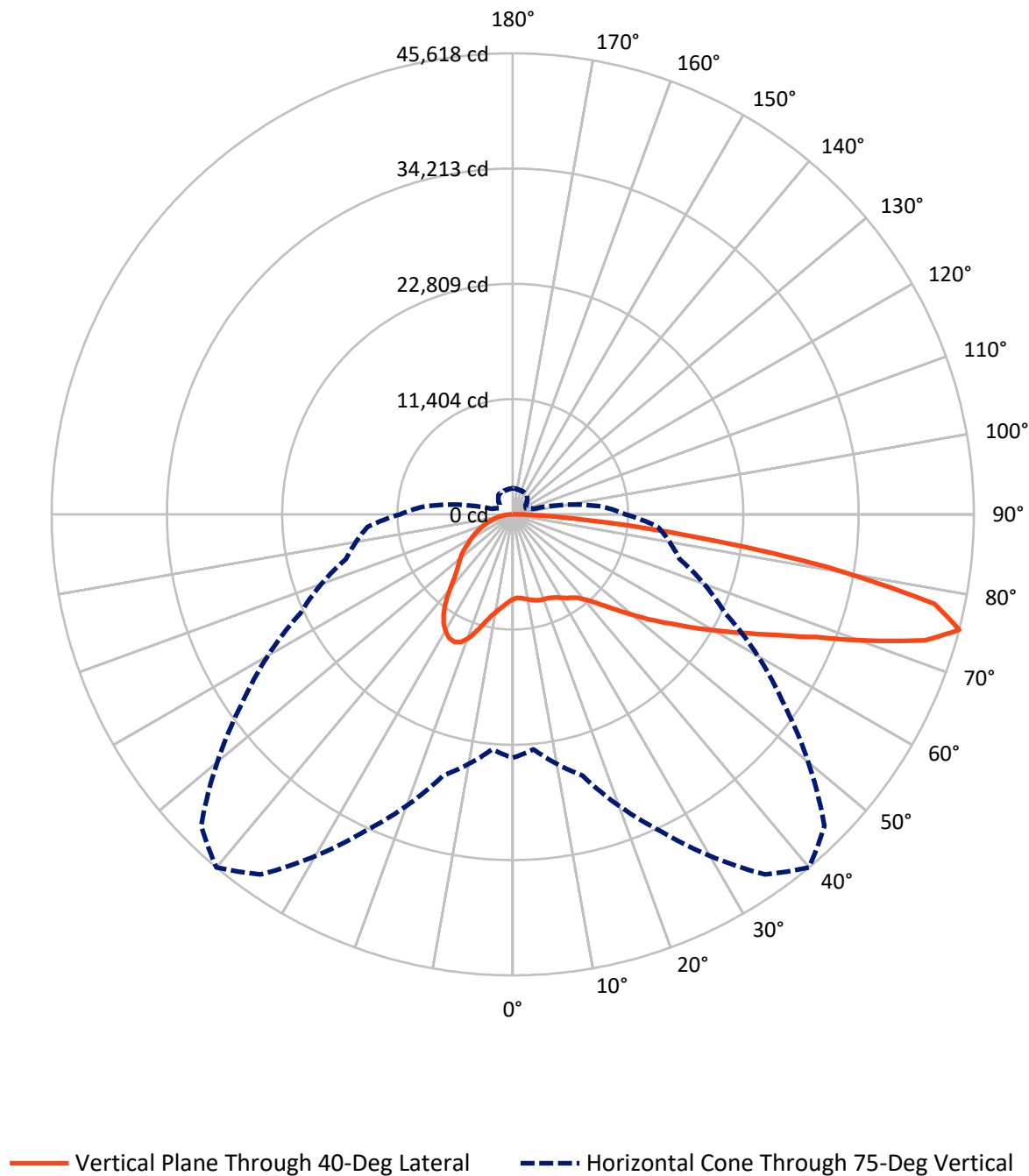
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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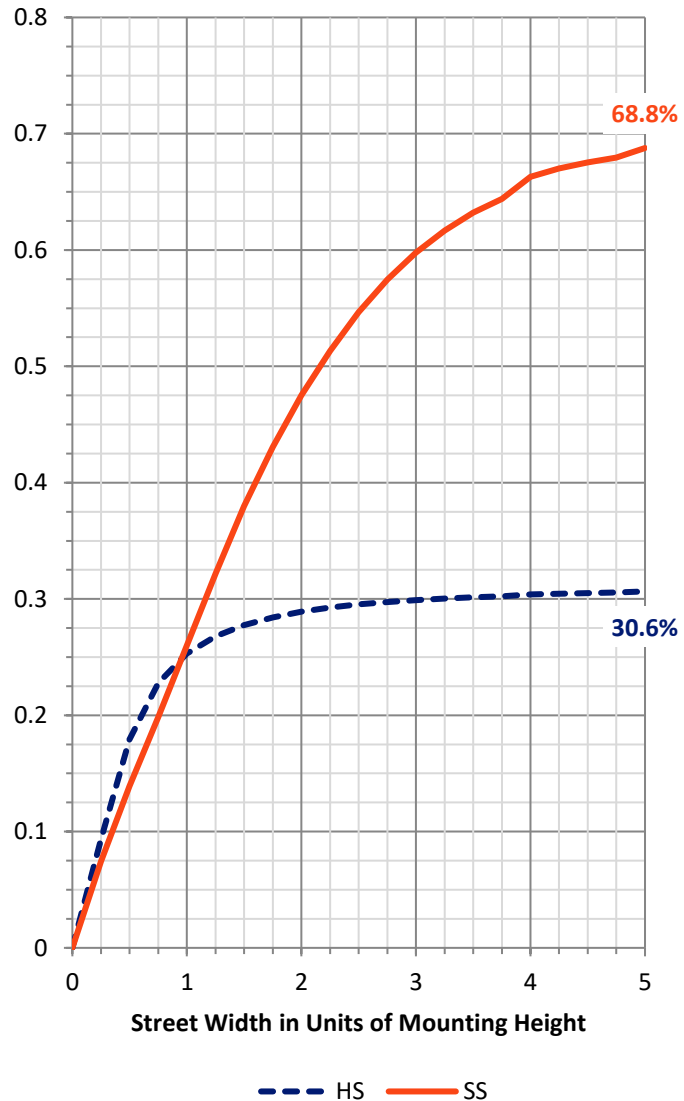
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 22708.3  | 0.0    | 22708.3 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 50583.7  | 0.0    | 50583.7 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 73292.0  | 0.0    | 73292.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 836.6   | 1.1       |
| 10°-20°   | 2808.8  | 3.8       |
| 20°-30°   | 5128.7  | 7.0       |
| 30°-40°   | 7273.8  | 9.9       |
| 40°-50°   | 9821.9  | 13.4      |
| 50°-60°   | 13213.0 | 18.0      |
| 60°-70°   | 16770.4 | 22.9      |
| 70°-80°   | 15220.2 | 20.8      |
| 80°-90°   | 2218.6  | 3.0       |
| 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°    | 73292.0 | 100.0     |
| 0°-180°   | 73292.0 | 100.0     |

**Coefficient of Utilization**



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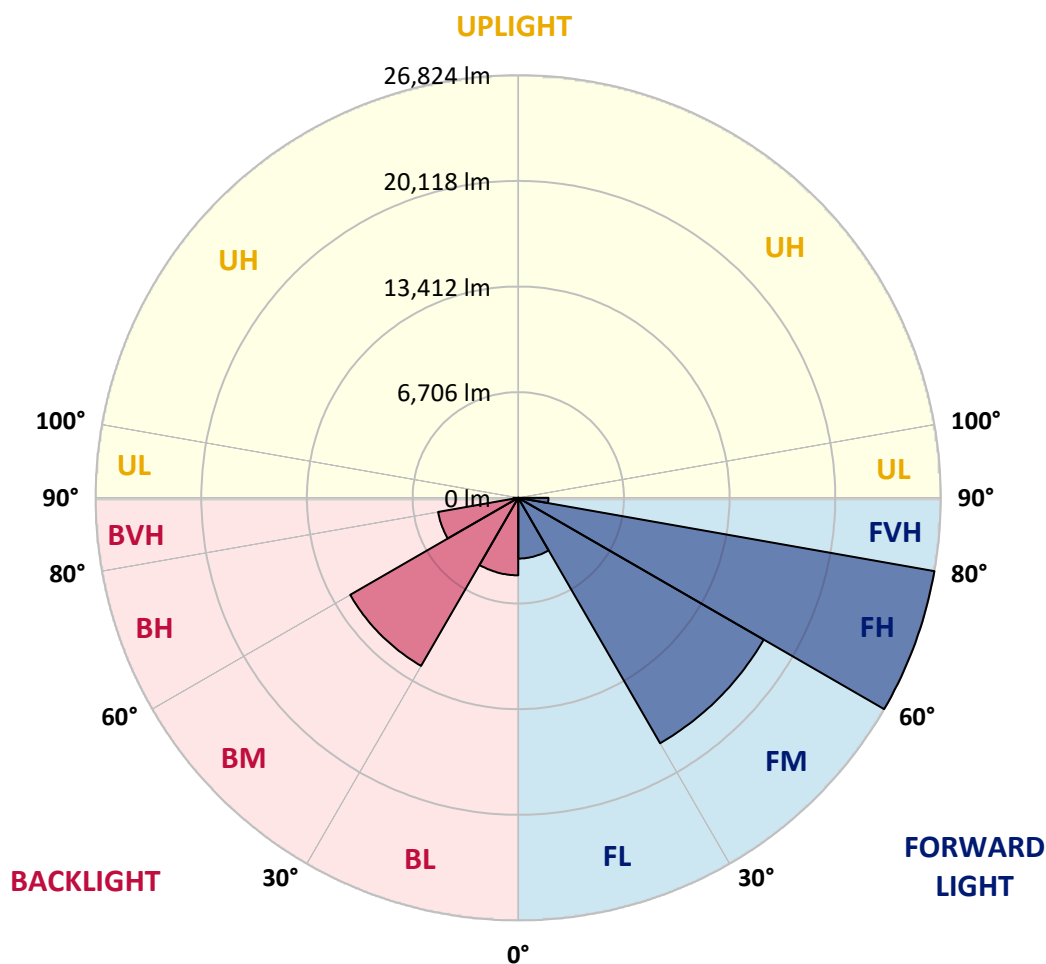
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3855.2  | 5.3       |                         |      |        |
| FM   | (30°-60°)   | 17991.5 | 24.5      |                         |      |        |
| FH   | (60°-80°)   | 26823.8 | 36.6      |                         |      | G5     |
| FVH  | (80°-90°)   | 1913.2  | 2.6       |                         |      | G5     |
| BL   | (0°-30°)    | 4918.8  | 6.7       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 12317.2 | 16.8      | B5                      |      |        |
| BH   | (60°-80°)   | 5166.8  | 7.0       | B5                      |      | G5     |
| BVH  | (80°-90°)   | 305.5   | 0.4       |                         |      | G3/500 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  |
| 2.5°  | 8252.8  | 8299.4  | 8287.7  | 8272.2  | 8272.2  | 8276.1  | 8272.2  | 8299.4  | 8326.6  | 8353.8  |
| 5°    | 8338.3  | 8384.9  | 8361.6  | 8342.2  | 8326.6  | 8322.7  | 8311.1  | 8307.2  | 8322.7  | 8357.7  |
| 7.5°  | 8505.4  | 8552.1  | 8517.1  | 8482.1  | 8451.0  | 8435.5  | 8419.9  | 8396.6  | 8384.9  | 8404.4  |
| 10°   | 8692.0  | 8738.7  | 8695.9  | 8633.7  | 8583.2  | 8563.7  | 8548.2  | 8524.9  | 8509.3  | 8521.0  |
| 12.5° | 8878.6  | 8925.3  | 8867.0  | 8781.4  | 8715.3  | 8703.7  | 8684.2  | 8676.5  | 8672.6  | 8668.7  |
| 15°   | 9053.5  | 9092.4  | 9018.6  | 8917.5  | 8847.5  | 8828.1  | 8808.6  | 8820.3  | 8839.7  | 8863.1  |
| 17.5° | 9189.6  | 9228.5  | 9119.6  | 8987.5  | 8921.4  | 8913.6  | 8901.9  | 8940.8  | 8995.2  | 9053.5  |
| 20°   | 9314.0  | 9352.9  | 9212.9  | 9034.1  | 8956.4  | 8956.4  | 8960.2  | 9041.9  | 9119.6  | 9205.1  |
| 22.5° | 9488.9  | 9520.0  | 9349.0  | 9104.1  | 8991.3  | 8999.1  | 9030.2  | 9111.9  | 9209.0  | 9325.7  |
| 25°   | 9749.4  | 9772.7  | 9562.8  | 9236.2  | 9108.0  | 9131.3  | 9158.5  | 9197.4  | 9290.7  | 9426.7  |
| 27.5° | 10169.2 | 10188.6 | 9912.6  | 9469.5  | 9275.1  | 9314.0  | 9352.9  | 9325.7  | 9368.4  | 9485.0  |
| 30°   | 10760.1 | 10771.7 | 10421.9 | 9834.9  | 9558.9  | 9578.3  | 9586.1  | 9473.4  | 9391.7  | 9485.0  |
| 32.5° | 11459.8 | 11455.9 | 11040.0 | 10278.0 | 9881.5  | 9862.1  | 9796.0  | 9574.4  | 9384.0  | 9465.6  |
| 35°   | 12544.3 | 12501.6 | 11965.1 | 10900.0 | 10246.9 | 10126.4 | 9970.9  | 9687.2  | 9422.8  | 9446.2  |
| 37.5° | 14340.3 | 14208.1 | 13465.6 | 11918.5 | 10791.2 | 10484.1 | 10254.7 | 9869.9  | 9508.4  | 9438.4  |
| 40°   | 16365.6 | 16198.4 | 15382.1 | 13314.0 | 11607.5 | 11113.8 | 10744.5 | 10130.3 | 9648.3  | 9473.4  |
| 42.5° | 18767.9 | 18530.8 | 17652.3 | 14958.4 | 12641.5 | 11926.3 | 11370.4 | 10460.7 | 9854.3  | 9586.1  |
| 45°   | 21718.4 | 21403.5 | 20159.6 | 16812.6 | 13943.8 | 12991.4 | 12248.9 | 10962.2 | 10169.2 | 9803.8  |
| 47.5° | 24700.0 | 24777.7 | 23009.0 | 18935.1 | 15506.5 | 14305.3 | 13349.0 | 11716.3 | 10627.9 | 10153.7 |
| 50°   | 27868.1 | 27922.5 | 25842.8 | 21286.9 | 17279.1 | 15790.2 | 14585.2 | 12559.9 | 11265.4 | 10651.2 |
| 52.5° | 30340.4 | 30348.2 | 28416.2 | 23747.6 | 19125.6 | 17422.9 | 15918.5 | 13523.9 | 12004.0 | 11312.1 |
| 55°   | 31887.6 | 31868.2 | 30219.9 | 26076.1 | 21248.0 | 19137.2 | 17395.7 | 14620.2 | 12905.9 | 12089.5 |
| 57.5° | 33011.0 | 32952.7 | 31463.9 | 28078.0 | 23510.4 | 21162.5 | 19067.2 | 15864.1 | 13971.0 | 13014.7 |
| 60°   | 33438.6 | 33403.6 | 32307.4 | 29807.9 | 25889.5 | 23401.6 | 20995.4 | 17255.8 | 15179.9 | 14107.0 |
| 62.5° | 33601.9 | 33668.0 | 33135.4 | 31483.3 | 28435.7 | 25881.7 | 23113.9 | 18919.5 | 16540.5 | 15343.2 |
| 65°   | 34177.2 | 34297.7 | 34188.9 | 33675.8 | 31312.3 | 28785.5 | 25924.5 | 20898.2 | 18025.5 | 16668.8 |
| 67.5° | 35316.2 | 35436.7 | 35483.4 | 36299.7 | 34826.4 | 32404.6 | 29430.8 | 23362.7 | 19763.1 | 18044.9 |
| 70°   | 35289.0 | 35254.0 | 36078.1 | 38387.2 | 39226.8 | 37415.3 | 34157.8 | 26394.8 | 21835.0 | 19187.8 |
| 72.5° | 32120.8 | 31840.9 | 33788.5 | 38363.9 | 42888.7 | 42647.7 | 39930.4 | 30305.5 | 23623.2 | 19327.7 |
| 75°   | 24097.4 | 23351.1 | 26791.3 | 34573.7 | 43499.0 | 45617.6 | 43600.1 | 32731.1 | 23199.5 | 17076.9 |
| 77.5° | 10305.3 | 9555.0  | 13609.5 | 25594.0 | 38931.4 | 42643.8 | 40233.6 | 28556.2 | 18519.1 | 11292.6 |
| 80°   | 2697.8  | 2693.9  | 4112.8  | 11603.6 | 26476.5 | 31491.1 | 27627.1 | 18441.4 | 10581.3 | 4035.0  |
| 82.5° | 1115.7  | 1088.4  | 1512.2  | 4513.2  | 12937.0 | 17671.7 | 14421.9 | 8225.5  | 3821.2  | 1092.3  |
| 85°   | 415.9   | 412.1   | 734.7   | 1558.8  | 4563.7  | 7288.7  | 5275.1  | 2103.0  | 952.4   | 532.6   |
| 87.5° | 116.6   | 112.7   | 159.4   | 540.3   | 1111.8  | 1687.1  | 901.9   | 346.0   | 268.2   | 209.9   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 8381.0  | 0°    | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  | 8381.0  |
| 8396.6  | 2.5°  | 8408.2  | 8427.7  | 8462.7  | 8489.9  | 8524.9  | 8563.7  | 8618.2  | 8653.1  | 8688.1  | 8711.5  |
| 8416.0  | 5°    | 8443.2  | 8486.0  | 8575.4  | 8664.8  | 8769.8  | 8867.0  | 8979.7  | 9061.3  | 9127.4  | 9146.8  |
| 8486.0  | 7.5°  | 8521.0  | 8591.0  | 8742.6  | 8894.2  | 9061.3  | 9220.7  | 9384.0  | 9523.9  | 9636.6  | 9679.4  |
| 8610.4  | 10°   | 8657.0  | 8750.3  | 8964.1  | 9177.9  | 9399.5  | 9644.4  | 9854.3  | 10056.5 | 10215.8 | 10281.9 |
| 8758.1  | 12.5° | 8828.1  | 8944.7  | 9224.6  | 9520.0  | 9827.1  | 10165.3 | 10437.4 | 10686.2 | 10884.5 | 10973.9 |
| 8964.1  | 15°   | 9049.7  | 9201.3  | 9558.9  | 9955.4  | 10406.3 | 10876.7 | 11222.7 | 11498.7 | 11720.2 | 11829.1 |
| 9177.9  | 17.5° | 9290.7  | 9492.8  | 9943.7  | 10542.4 | 11187.7 | 11805.8 | 12210.0 | 12412.2 | 12641.5 | 12746.5 |
| 9376.2  | 20°   | 9523.9  | 9772.7  | 10418.0 | 11288.7 | 12147.8 | 12804.8 | 13131.3 | 13185.8 | 13201.3 | 13213.0 |
| 9562.8  | 22.5° | 9764.9  | 10099.2 | 11012.7 | 12229.5 | 13150.8 | 13605.6 | 13652.2 | 13419.0 | 13092.5 | 12940.9 |
| 9745.5  | 25°   | 10029.3 | 10472.4 | 11790.2 | 13267.4 | 14013.7 | 14068.2 | 13710.5 | 13143.0 | 12524.9 | 12241.1 |
| 9893.2  | 27.5° | 10285.8 | 10903.9 | 12723.2 | 14258.6 | 14635.7 | 14157.6 | 13387.9 | 12583.2 | 11836.9 | 11537.5 |
| 9998.2  | 30°   | 10542.4 | 11397.6 | 13753.3 | 15125.5 | 14919.5 | 13936.0 | 12878.7 | 11980.7 | 11230.4 | 10915.6 |
| 10091.5 | 32.5° | 10802.8 | 11972.9 | 14938.9 | 15751.4 | 14869.0 | 13465.6 | 12245.0 | 11304.3 | 10643.5 | 10313.0 |
| 10173.1 | 35°   | 11098.3 | 12680.4 | 16062.4 | 16093.5 | 14530.8 | 12773.7 | 11409.3 | 10495.7 | 9920.4  | 9656.1  |
| 10270.3 | 37.5° | 11483.1 | 13578.4 | 17053.6 | 16179.0 | 13939.9 | 11759.1 | 10371.3 | 9539.5  | 9065.2  | 8944.7  |
| 10414.1 | 40°   | 11961.2 | 14659.0 | 17811.6 | 16042.9 | 13065.2 | 10526.8 | 9236.2  | 8571.5  | 8303.3  | 8330.5  |
| 10608.5 | 42.5° | 12583.2 | 15868.0 | 18344.2 | 15693.1 | 11848.5 | 9255.7  | 8241.1  | 7945.7  | 8073.9  | 8182.8  |
| 10900.0 | 45°   | 13391.8 | 17123.6 | 18674.6 | 15098.3 | 10472.4 | 8178.9  | 7654.1  | 7724.1  | 7821.3  | 7832.9  |
| 11370.4 | 47.5° | 14425.8 | 18394.7 | 18892.3 | 14200.3 | 9069.1  | 7420.9  | 7280.9  | 7296.5  | 7277.0  | 7195.4  |
| 12074.0 | 50°   | 15716.4 | 19630.9 | 19086.7 | 13010.8 | 7875.7  | 6946.6  | 6760.0  | 6705.6  | 6437.4  | 6173.0  |
| 13010.8 | 52.5° | 17185.8 | 20766.0 | 19168.3 | 11533.6 | 6946.6  | 6550.1  | 6246.9  | 5904.8  | 5403.4  | 5321.7  |
| 14188.7 | 55°   | 18818.5 | 21815.6 | 18958.4 | 9718.3  | 6165.3  | 6040.9  | 5582.2  | 5170.1  | 5115.7  | 5045.7  |
| 15739.7 | 57.5° | 20769.9 | 22946.8 | 18530.8 | 7693.0  | 5364.5  | 5446.1  | 4999.1  | 5045.7  | 4948.5  | 4839.7  |
| 17733.9 | 60°   | 22904.0 | 24116.9 | 17780.6 | 5846.5  | 4536.5  | 4703.6  | 4847.5  | 4843.6  | 4816.4  | 4727.0  |
| 19836.9 | 62.5° | 24824.4 | 24886.6 | 16303.4 | 4478.2  | 3809.6  | 4128.3  | 4520.9  | 4517.1  | 4493.7  | 4443.2  |
| 22033.3 | 65°   | 25967.2 | 24769.9 | 13838.8 | 3525.8  | 3210.9  | 3654.1  | 4077.8  | 4108.9  | 4112.8  | 4108.9  |
| 23685.4 | 67.5° | 25765.1 | 23405.5 | 10456.9 | 2806.6  | 2717.2  | 3172.0  | 3638.5  | 3681.3  | 3712.4  | 3720.2  |
| 23895.3 | 70°   | 23479.3 | 20408.4 | 6818.3  | 2239.1  | 2278.0  | 2748.3  | 3222.6  | 3265.3  | 3292.6  | 3323.6  |
| 20734.9 | 72.5° | 18301.5 | 15005.0 | 3902.9  | 1811.5  | 1893.1  | 2382.9  | 2810.5  | 2861.1  | 2876.6  | 2934.9  |
| 14429.7 | 75°   | 11152.7 | 8824.2  | 2106.9  | 1426.6  | 1554.9  | 2036.9  | 2402.4  | 2460.7  | 2487.9  | 2557.8  |
| 7086.6  | 77.5° | 5302.3  | 3821.2  | 1201.2  | 1111.8  | 1251.7  | 1663.8  | 2029.2  | 2095.3  | 2021.4  | 2060.3  |
| 1955.3  | 80°   | 1792.0  | 1418.9  | 758.0   | 847.4   | 956.3   | 1298.4  | 1624.9  | 1691.0  | 1535.5  | 1527.7  |
| 649.2   | 82.5° | 625.9   | 575.3   | 482.0   | 563.7   | 618.1   | 929.1   | 1228.4  | 1313.9  | 1142.9  | 1139.0  |
| 291.5   | 85°   | 244.9   | 233.2   | 268.2   | 307.1   | 369.3   | 571.4   | 808.6   | 851.3   | 703.6   | 567.5   |
| 85.5    | 87.5° | 50.5    | 54.4    | 66.1    | 70.0    | 112.7   | 198.3   | 291.5   | 357.6   | 283.8   | 241.0   |
| 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°    |
|---------|
| 8381.0  |
| 8695.9  |
| 9154.6  |
| 9683.3  |
| 10285.8 |
| 10973.9 |
| 11821.3 |
| 12742.6 |
| 13244.1 |
| 12983.6 |
| 12283.9 |
| 11572.5 |
| 10950.5 |
| 10355.8 |
| 9714.4  |
| 9030.2  |
| 8423.8  |
| 8283.9  |
| 7910.7  |
| 7257.6  |
| 6208.0  |
| 5348.9  |
| 5057.4  |
| 4820.3  |
| 4695.9  |
| 4423.8  |
| 4108.9  |
| 3727.9  |
| 3339.2  |
| 2958.2  |
| 2565.6  |
| 2029.2  |
| 1512.2  |
| 1084.6  |
| 559.8   |
| 221.6   |
| 0.0     |