

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: P956110

Luminaire Tested: **GLAN-SB8D-840-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P956110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8D-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 80048 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

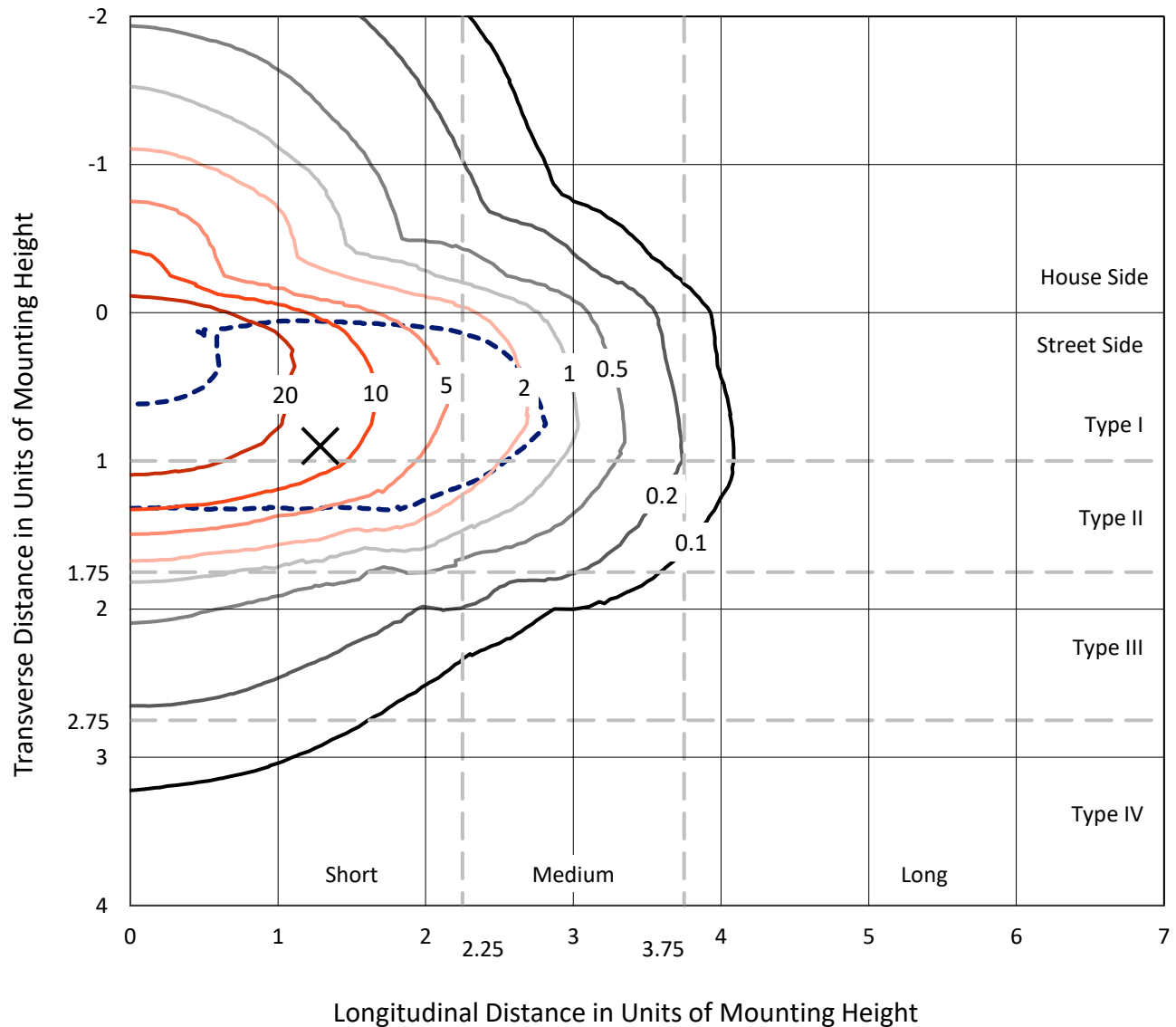
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

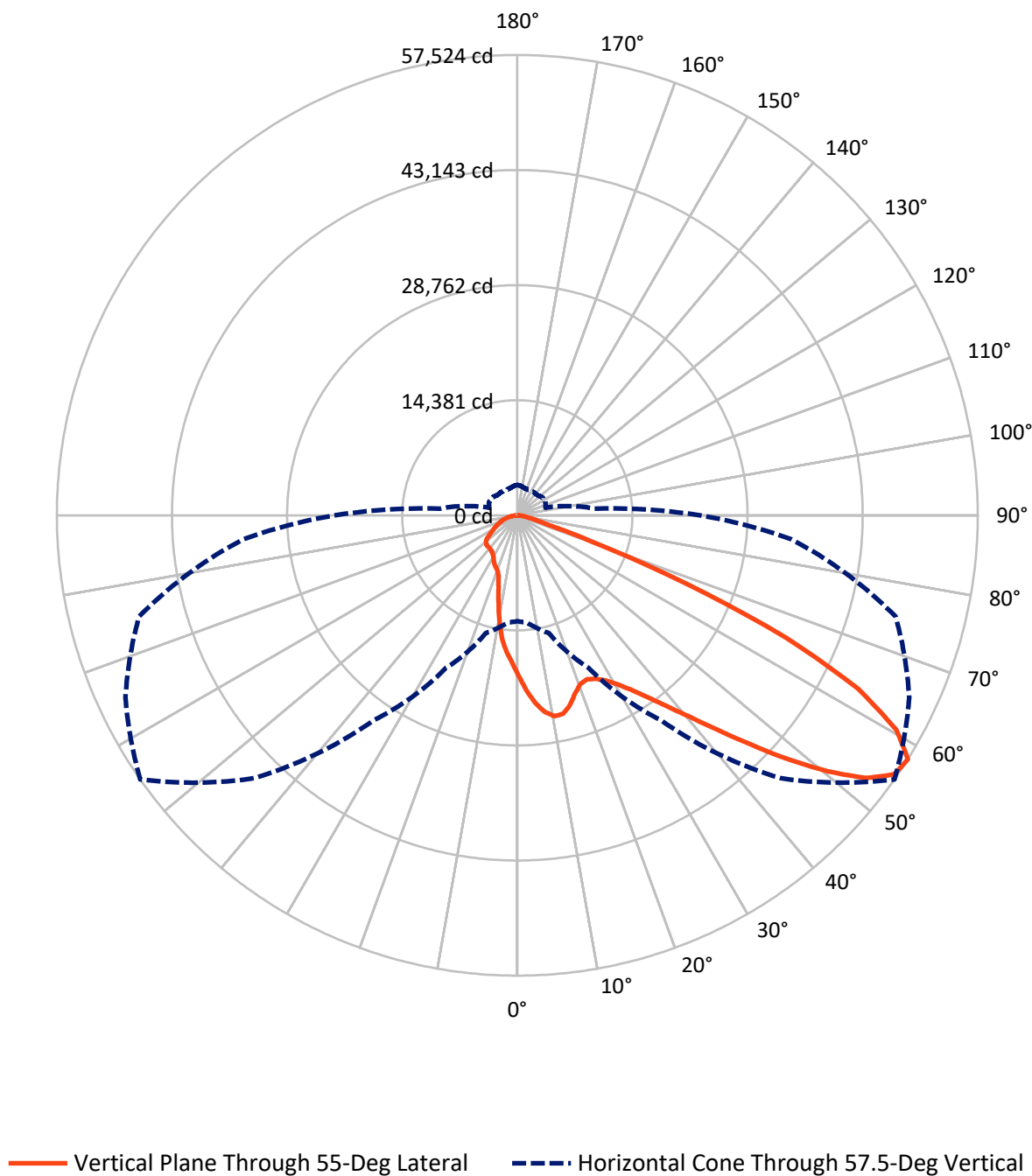
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 38.8 fc  
Type II - 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    | 14484.3  | 0.0    | 14484.3 |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 65563.7  | 0.0    | 65563.7 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 80048.0  | 0.0    | 80048.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1861.2  | 2.3       |
| 10°-20°   | 4697.8  | 5.9       |
| 20°-30°   | 7496.3  | 9.4       |
| 30°-40°   | 11868.5 | 14.8      |
| 40°-50°   | 18166.0 | 22.7      |
| 50°-60°   | 19457.5 | 24.3      |
| 60°-70°   | 12240.8 | 15.3      |
| 70°-80°   | 3619.8  | 4.5       |
| 80°-90°   | 640.0   | 0.8       |
| 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°    | 80048.0 | 100.0     |
| 0°-180°   | 80048.0 | 100.0     |

**Coefficient of Utilization**



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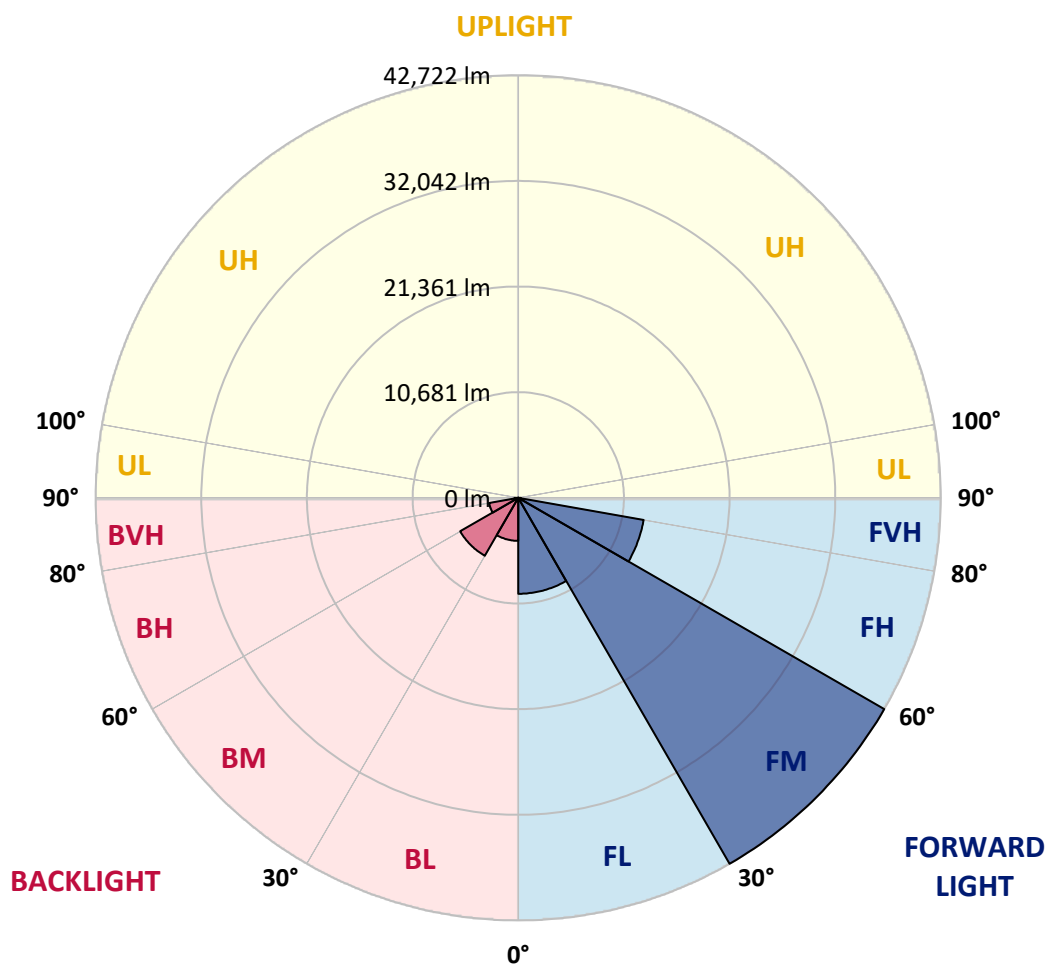
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 9701.8  | 12.1      |                         |      |         |
| FM   | (30°-60°)   | 42722.2 | 53.4      |                         |      |         |
| FH   | (60°-80°)   | 12869.3 | 16.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 270.4   | 0.3       |                         |      | G3/500  |
| BL   | (0°-30°)    | 4353.5  | 5.4       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6769.8  | 8.5       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2991.4  | 3.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 369.6   | 0.5       |                         |      | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 |
| 2.5°  | 23012.0 | 22995.5 | 23086.5 | 22776.2 | 22565.1 | 22279.6 | 21903.0 | 21423.0 | 20905.7 | 20359.5 |
| 5°    | 25085.2 | 24940.4 | 25035.6 | 24803.8 | 24572.1 | 24141.7 | 23583.1 | 22801.0 | 21845.1 | 20756.8 |
| 7.5°  | 24758.3 | 24659.0 | 24903.2 | 25110.1 | 25283.9 | 25230.1 | 24820.4 | 24001.1 | 22767.9 | 21187.1 |
| 10°   | 22122.3 | 22010.6 | 22354.1 | 23070.0 | 24121.1 | 25035.6 | 25532.2 | 25023.2 | 23711.4 | 21658.9 |
| 12.5° | 19796.7 | 19742.9 | 19970.5 | 20549.9 | 21716.8 | 23471.4 | 25441.1 | 25917.0 | 24692.1 | 22217.5 |
| 15°   | 18803.6 | 18737.4 | 18882.2 | 19176.0 | 19920.9 | 21555.4 | 24613.5 | 26529.4 | 25656.3 | 22863.1 |
| 17.5° | 18584.3 | 18509.8 | 18571.8 | 18725.0 | 19205.0 | 20450.6 | 23363.8 | 26831.5 | 26661.9 | 23583.1 |
| 20°   | 18989.8 | 18927.7 | 18936.0 | 18927.7 | 19262.9 | 20251.9 | 22494.8 | 26715.7 | 27539.1 | 24245.2 |
| 22.5° | 19970.5 | 19867.1 | 19871.2 | 19651.9 | 19834.0 | 20599.5 | 22267.2 | 26405.3 | 28321.2 | 24824.5 |
| 25°   | 21567.8 | 21381.6 | 21418.9 | 20860.2 | 20810.6 | 21377.5 | 22623.1 | 26165.3 | 29099.2 | 25288.0 |
| 27.5° | 23752.8 | 23541.7 | 23430.0 | 22598.2 | 22201.0 | 22482.4 | 23347.2 | 26248.0 | 29835.8 | 25689.4 |
| 30°   | 26483.9 | 26227.4 | 25999.8 | 24820.4 | 24100.4 | 23996.9 | 24472.8 | 26794.3 | 30704.8 | 26111.5 |
| 32.5° | 29831.7 | 29533.7 | 29119.9 | 27555.7 | 26541.9 | 25999.8 | 25929.4 | 27766.7 | 31722.8 | 26649.4 |
| 35°   | 33816.7 | 33427.7 | 32840.1 | 30816.5 | 29533.7 | 28424.7 | 27849.5 | 29169.6 | 33117.3 | 27460.5 |
| 37.5° | 37921.7 | 37483.0 | 36945.1 | 34536.7 | 32960.1 | 31325.5 | 30191.7 | 31073.1 | 34975.3 | 28561.3 |
| 40°   | 41708.0 | 41215.6 | 40714.9 | 38571.3 | 36878.9 | 34909.1 | 33059.4 | 33481.5 | 37247.1 | 29877.2 |
| 42.5° | 43942.6 | 43578.5 | 43388.1 | 42229.4 | 40921.8 | 38923.1 | 36626.4 | 36336.8 | 39800.4 | 31391.7 |
| 45°   | 43843.3 | 43694.3 | 44281.9 | 44762.0 | 44451.6 | 43342.6 | 40805.9 | 39494.1 | 42361.9 | 32703.5 |
| 47.5° | 41501.1 | 41600.4 | 42912.2 | 45610.3 | 46797.9 | 47377.2 | 45564.8 | 42593.6 | 44588.2 | 33684.2 |
| 50°   | 35128.4 | 35211.2 | 38248.6 | 44066.8 | 47402.1 | 50667.0 | 50286.3 | 45618.6 | 46313.8 | 34284.3 |
| 52.5° | 30084.1 | 30137.9 | 31441.4 | 39490.0 | 45407.5 | 52322.3 | 54540.3 | 48469.7 | 47575.9 | 34449.8 |
| 55°   | 22660.3 | 22846.5 | 24307.3 | 30982.0 | 40218.3 | 51010.5 | 57130.8 | 51407.8 | 48374.5 | 34466.3 |
| 57.5° | 13237.8 | 13440.6 | 15244.8 | 21029.9 | 31259.3 | 46437.9 | 57523.9 | 54014.8 | 48916.6 | 34333.9 |
| 60°   | 6484.4  | 6571.3  | 7357.6  | 11052.9 | 19275.3 | 37627.9 | 54362.4 | 55276.9 | 49218.7 | 34263.6 |
| 62.5° | 4369.8  | 4357.4  | 4390.5  | 5454.0  | 9497.0  | 24174.9 | 47774.5 | 53067.2 | 49057.3 | 33994.6 |
| 65°   | 3757.4  | 3711.9  | 3587.7  | 3827.8  | 4920.2  | 11057.0 | 36912.0 | 46471.0 | 47828.3 | 33320.1 |
| 67.5° | 3248.4  | 3252.6  | 3256.7  | 3182.2  | 3513.3  | 5102.3  | 22556.9 | 36605.7 | 43417.1 | 30125.5 |
| 70°   | 2689.8  | 2727.0  | 2743.6  | 2743.6  | 2863.6  | 3347.7  | 9629.4  | 25089.4 | 34247.0 | 23620.3 |
| 72.5° | 2449.8  | 2371.1  | 2379.4  | 2338.0  | 2338.0  | 2549.1  | 3877.4  | 14222.7 | 21576.1 | 13287.5 |
| 75°   | 1998.7  | 2048.4  | 2056.6  | 2027.7  | 1932.5  | 1944.9  | 2300.8  | 5967.2  | 9232.1  | 5512.0  |
| 77.5° | 1725.6  | 1725.6  | 1742.1  | 1721.5  | 1647.0  | 1456.6  | 1535.2  | 2313.2  | 3140.8  | 2259.4  |
| 80°   | 1386.3  | 1382.1  | 1452.5  | 1493.9  | 1378.0  | 1075.9  | 980.7   | 1278.7  | 1394.5  | 993.1   |
| 82.5° | 674.5   | 715.9   | 997.3   | 1138.0  | 1046.9  | 778.0   | 600.0   | 794.5   | 744.9   | 438.6   |
| 85°   | 393.1   | 372.4   | 446.9   | 633.1   | 600.0   | 430.4   | 289.7   | 413.8   | 389.0   | 223.5   |
| 87.5° | 124.1   | 115.9   | 91.0    | 215.2   | 173.8   | 120.0   | 78.6    | 120.0   | 107.6   | 49.7    |
| 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):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 20057.4 | 0°    | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 | 20057.4 |
| 20123.6 | 2.5°  | 19829.8 | 19341.5 | 18857.4 | 18414.6 | 18145.6 | 17971.8 | 17798.0 | 17603.5 | 17529.0 | 17417.3 |
| 20177.4 | 5°    | 19631.2 | 18687.7 | 17847.7 | 17123.5 | 16465.5 | 15948.3 | 15426.9 | 15004.8 | 14814.4 | 14942.7 |
| 20347.1 | 7.5°  | 19515.3 | 18149.8 | 16854.5 | 15526.2 | 14247.5 | 13225.4 | 12335.7 | 11710.9 | 11429.5 | 11499.8 |
| 20512.6 | 10°   | 19411.9 | 17541.5 | 15567.6 | 13469.6 | 11632.2 | 10366.0 | 9455.6  | 8979.7  | 8801.8  | 8839.0  |
| 20736.1 | 12.5° | 19316.7 | 16858.7 | 14015.8 | 11255.7 | 9302.5  | 8466.6  | 8205.9  | 8210.0  | 8243.1  | 8267.9  |
| 21092.0 | 15°   | 19300.2 | 16035.2 | 12281.9 | 9319.0  | 8044.5  | 7990.7  | 8272.1  | 8450.0  | 8545.2  | 8574.2  |
| 21389.9 | 17.5° | 19275.3 | 15050.3 | 10514.9 | 7999.0  | 7738.3  | 8102.4  | 8363.1  | 8479.0  | 8553.5  | 8557.6  |
| 21679.6 | 20°   | 19176.0 | 13800.6 | 8884.5  | 7370.0  | 7672.1  | 7986.6  | 8147.9  | 8239.0  | 8301.1  | 8321.7  |
| 21898.9 | 22.5° | 18869.8 | 12410.2 | 7614.1  | 7088.6  | 7407.2  | 7659.6  | 7850.0  | 7953.5  | 7990.7  | 8015.5  |
| 21940.3 | 25°   | 18319.4 | 10854.3 | 6736.8  | 6819.6  | 7038.9  | 7357.6  | 7510.7  | 7531.4  | 7519.0  | 7556.2  |
| 21836.8 | 27.5° | 17599.4 | 9186.6  | 6190.6  | 6455.5  | 6736.8  | 7010.0  | 7092.7  | 7080.3  | 7055.5  | 7096.9  |
| 21658.9 | 30°   | 16730.4 | 7688.6  | 5843.0  | 6045.8  | 6430.6  | 6678.9  | 6753.4  | 6724.4  | 6674.8  | 6720.3  |
| 21567.8 | 32.5° | 15811.7 | 6463.7  | 5557.5  | 5760.3  | 6178.2  | 6422.4  | 6496.8  | 6467.9  | 6430.6  | 6467.9  |
| 21671.3 | 35°   | 14955.1 | 5607.1  | 5292.6  | 5569.9  | 5979.6  | 6219.6  | 6314.8  | 6318.9  | 6318.9  | 6364.4  |
| 21944.4 | 37.5° | 14168.9 | 5106.4  | 5073.3  | 5449.9  | 5843.0  | 6058.2  | 6194.8  | 6203.0  | 6025.1  | 6037.5  |
| 22407.9 | 40°   | 13440.6 | 4895.4  | 4974.0  | 5371.3  | 5710.6  | 5917.5  | 5925.8  | 5462.3  | 5135.4  | 5127.1  |
| 22937.6 | 42.5° | 12844.7 | 4854.0  | 5003.0  | 5363.0  | 5615.4  | 5623.7  | 5040.2  | 4680.2  | 4589.2  | 4593.3  |
| 23425.9 | 45°   | 12286.1 | 4841.6  | 5069.2  | 5363.0  | 5474.7  | 4858.1  | 4465.0  | 4369.8  | 4378.1  | 4411.2  |
| 23645.2 | 47.5° | 11661.2 | 4791.9  | 5081.6  | 5288.5  | 5069.2  | 4320.2  | 4204.3  | 4162.9  | 4146.4  | 4154.7  |
| 23595.5 | 50°   | 10978.4 | 4614.0  | 4924.4  | 5139.5  | 4374.0  | 4088.5  | 3943.6  | 3931.2  | 3951.9  | 3964.3  |
| 23318.3 | 52.5° | 10258.4 | 4324.3  | 4655.4  | 4870.6  | 4055.4  | 3885.7  | 3724.3  | 3753.3  | 3844.3  | 3873.3  |
| 23028.6 | 55°   | 9786.6  | 3985.0  | 4299.5  | 4332.6  | 3831.9  | 3695.3  | 3558.8  | 3625.0  | 3794.6  | 3848.4  |
| 22854.8 | 57.5° | 9662.5  | 3625.0  | 3894.0  | 3856.7  | 3546.4  | 3529.8  | 3447.0  | 3505.0  | 3720.2  | 3798.8  |
| 22846.5 | 60°   | 9625.2  | 3302.2  | 3496.7  | 3467.7  | 3269.1  | 3347.7  | 3327.0  | 3356.0  | 3430.5  | 3455.3  |
| 22763.8 | 62.5° | 9335.6  | 3045.7  | 3140.8  | 3099.4  | 3020.8  | 3157.4  | 3207.0  | 3145.0  | 3202.9  | 3231.9  |
| 22196.8 | 65°   | 8599.0  | 2838.7  | 2793.2  | 2764.3  | 2797.4  | 2921.5  | 3020.8  | 2896.7  | 2950.5  | 3033.2  |
| 20011.9 | 67.5° | 7382.4  | 2557.4  | 2433.2  | 2466.3  | 2569.8  | 2636.0  | 2764.3  | 2623.6  | 2669.1  | 2809.8  |
| 16117.9 | 70°   | 5971.3  | 2201.5  | 2089.7  | 2184.9  | 2284.2  | 2420.8  | 2441.5  | 2346.3  | 2453.9  | 2611.1  |
| 9836.3  | 72.5° | 4225.0  | 1841.5  | 1762.8  | 1957.3  | 1990.4  | 2168.4  | 2122.9  | 2077.3  | 2226.3  | 2280.1  |
| 4862.3  | 75°   | 2929.8  | 1485.6  | 1440.1  | 1589.0  | 1709.0  | 1862.2  | 1829.0  | 1882.8  | 2197.3  | 2222.2  |
| 2429.1  | 77.5° | 1853.9  | 1154.5  | 1125.6  | 1220.7  | 1386.3  | 1555.9  | 1609.7  | 2222.2  | 3753.3  | 3902.2  |
| 1262.1  | 80°   | 1075.9  | 860.7   | 827.6   | 902.1   | 1046.9  | 1204.2  | 1551.8  | 2727.0  | 2474.6  | 2445.6  |
| 566.9   | 82.5° | 600.0   | 591.8   | 550.4   | 571.1   | 699.3   | 869.0   | 2193.2  | 1920.1  | 1560.1  | 1609.7  |
| 227.6   | 85°   | 281.4   | 347.6   | 297.9   | 285.5   | 393.1   | 1018.0  | 1464.9  | 1096.6  | 728.3   | 711.8   |
| 49.7    | 87.5° | 74.5    | 66.2    | 66.2    | 74.5    | 165.5   | 877.3   | 583.5   | 467.6   | 277.3   | 269.0   |
| 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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