

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: P955606

Luminaire Tested: **GLAN-SB8C-735-U-AFL**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955606  
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-SB8C-735-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 61589 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 399.8  
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



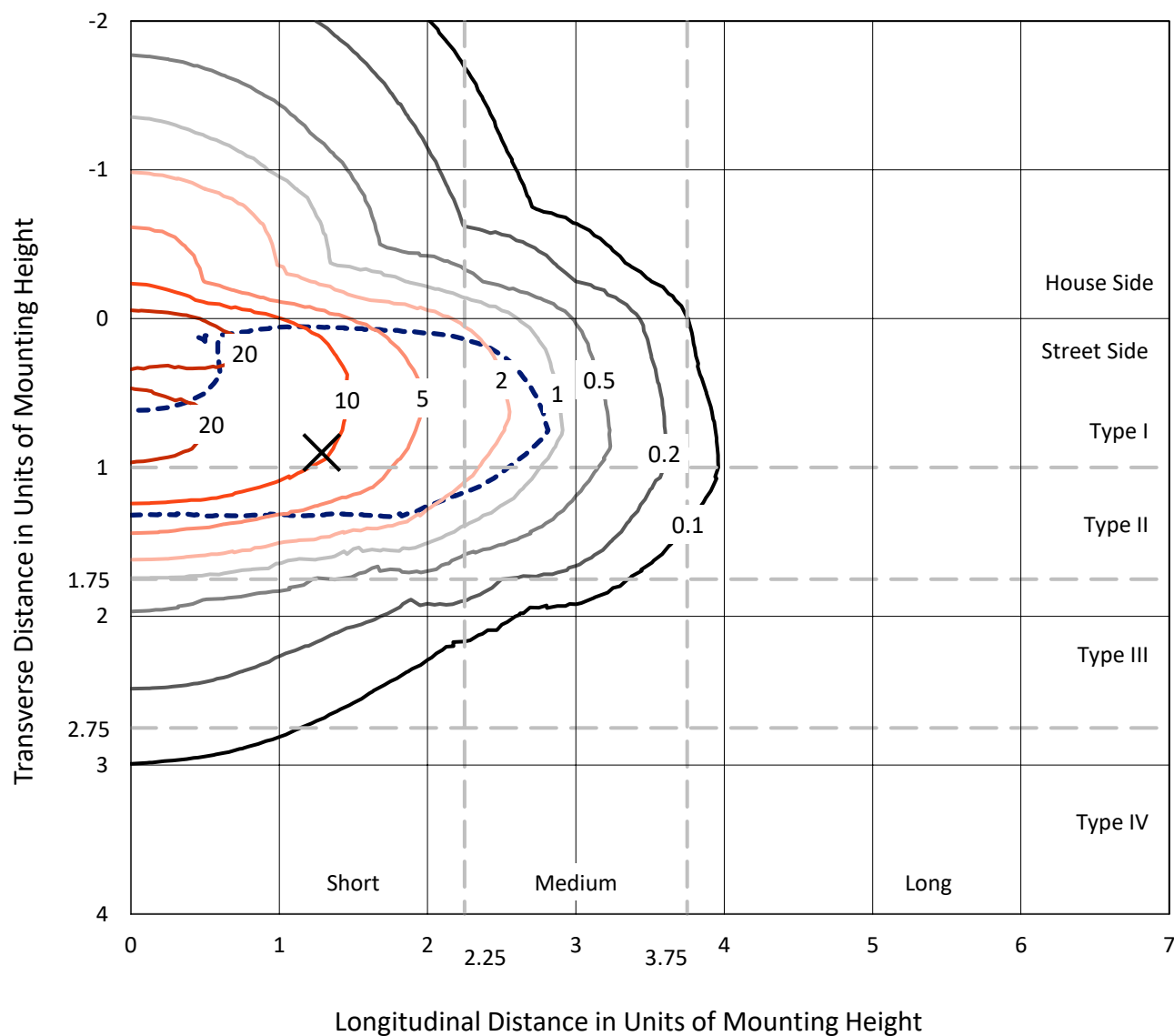
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

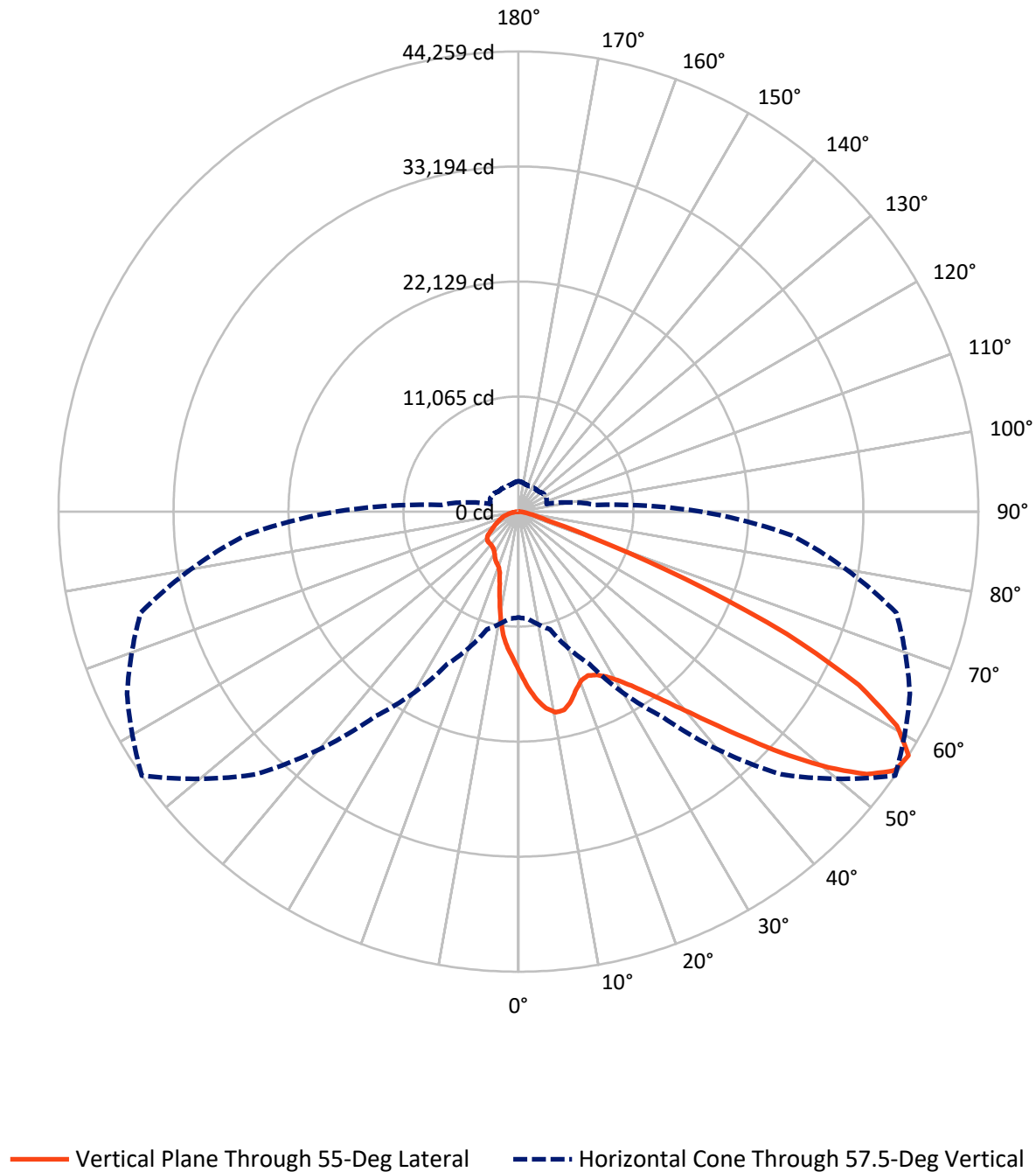


Based on 25 foot mounting height. Maximum calculated value = 29.8 fc

Type II - Short - N/A

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## Luminous Intensity Polar Plot



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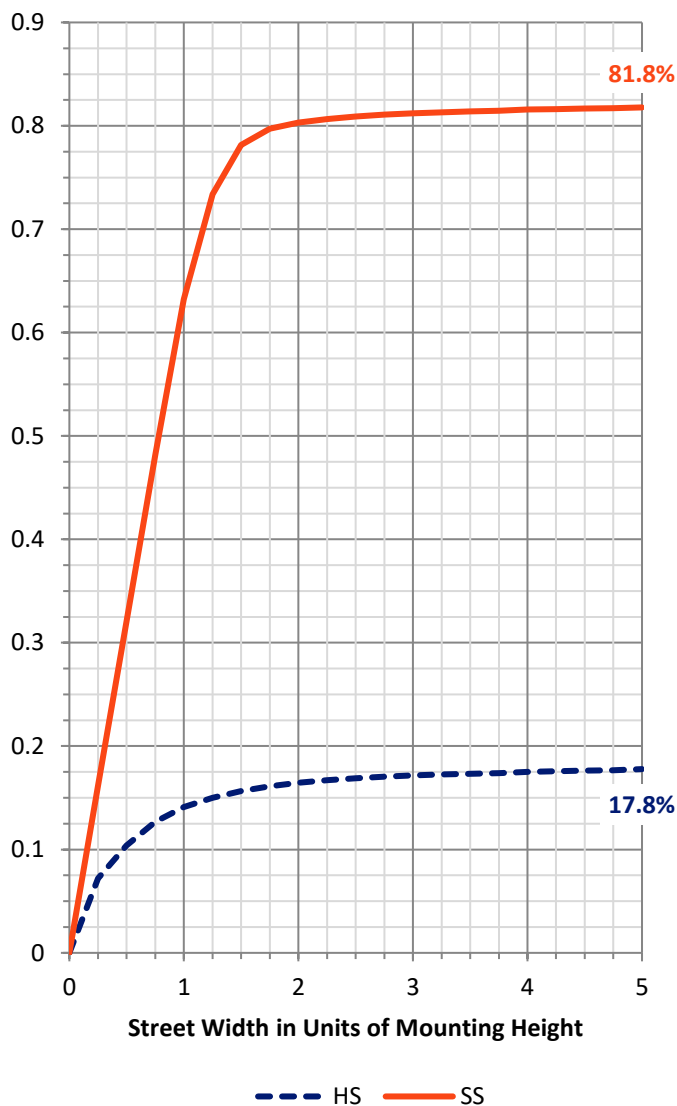
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11144.2  | 0.0    | 11144.2 |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 50444.8  | 0.0    | 50444.8 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 61589.0  | 0.0    | 61589.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1432.0  | 2.3       |
| 10°-20°   | 3614.5  | 5.9       |
| 20°-30°   | 5767.7  | 9.4       |
| 30°-40°   | 9131.7  | 14.8      |
| 40°-50°   | 13976.9 | 22.7      |
| 50°-60°   | 14970.6 | 24.3      |
| 60°-70°   | 9418.1  | 15.3      |
| 70°-80°   | 2785.1  | 4.5       |
| 80°-90°   | 492.4   | 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°    | 61589.0 | 100.0     |
| 0°-180°   | 61589.0 | 100.0     |

**Coefficient of Utilization**



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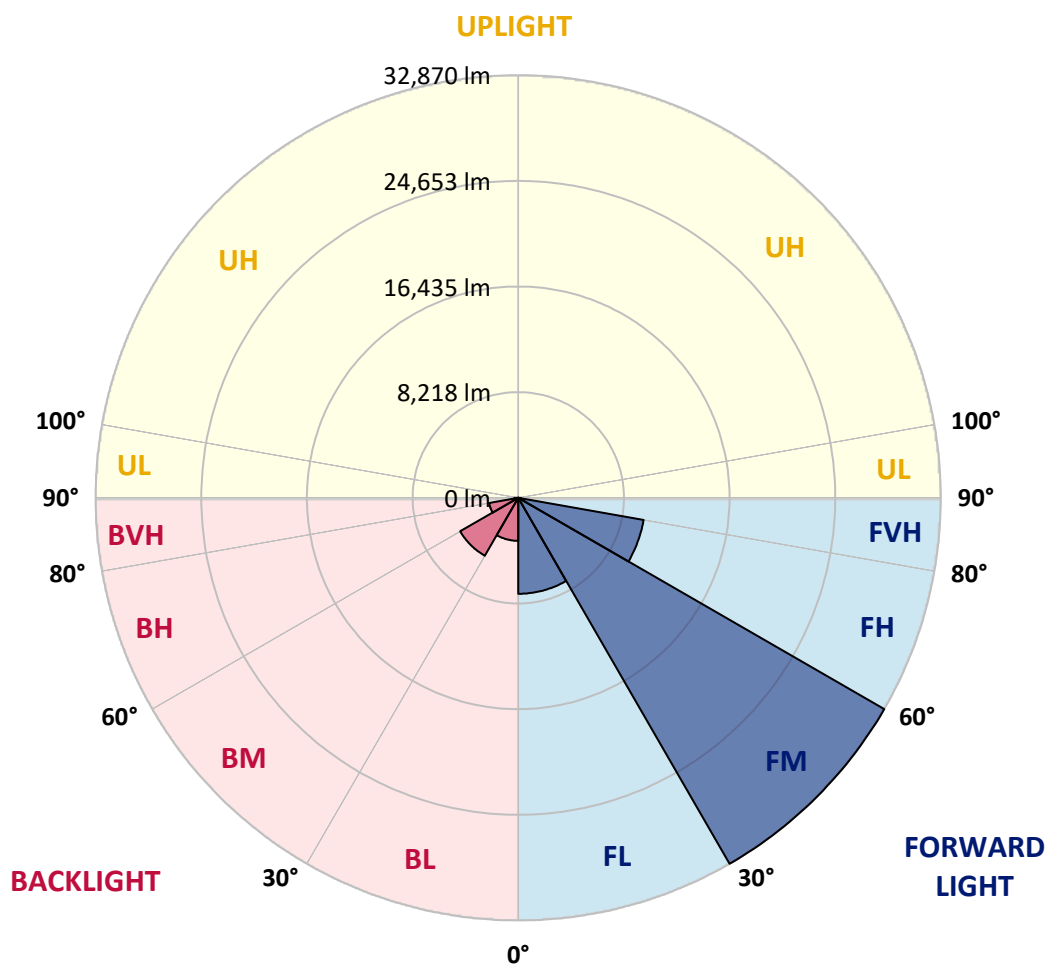
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 7464.6  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 32870.5 | 53.4      |                         |      |          |
| FH   | (60°-80°)   | 9901.6  | 16.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 208.1   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 3349.6  | 5.4       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 5208.7  | 8.5       | B4/8500                 |      |          |
| BH   | (60°-80°)   | 2301.5  | 3.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 284.4   | 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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 |
| 2.5°  | 17705.5 | 17692.7 | 17762.8 | 17524.0 | 17361.6 | 17141.9 | 16852.2 | 16482.9 | 16084.9 | 15664.6 |
| 5°    | 19300.6 | 19189.2 | 19262.4 | 19084.1 | 18905.8 | 18574.7 | 18144.9 | 17543.1 | 16807.6 | 15970.3 |
| 7.5°  | 19049.1 | 18972.7 | 19160.5 | 19319.7 | 19453.4 | 19412.0 | 19096.8 | 18466.4 | 17517.6 | 16301.4 |
| 10°   | 17021.0 | 16935.0 | 17199.3 | 17750.1 | 18558.8 | 19262.4 | 19644.5 | 19252.8 | 18243.6 | 16664.4 |
| 12.5° | 15231.6 | 15190.2 | 15365.3 | 15811.1 | 16708.9 | 18058.9 | 19574.4 | 19940.6 | 18998.1 | 17094.2 |
| 15°   | 14467.5 | 14416.6 | 14528.0 | 14754.0 | 15327.1 | 16584.8 | 18937.6 | 20411.8 | 19740.0 | 17590.9 |
| 17.5° | 14298.7 | 14241.4 | 14289.2 | 14407.0 | 14776.3 | 15734.7 | 17976.1 | 20644.2 | 20513.7 | 18144.9 |
| 20°   | 14610.8 | 14563.0 | 14569.4 | 14563.0 | 14820.9 | 15581.8 | 17307.5 | 20555.0 | 21188.6 | 18654.3 |
| 22.5° | 15365.3 | 15285.7 | 15288.9 | 15120.2 | 15260.3 | 15849.3 | 17132.4 | 20316.3 | 21790.4 | 19100.0 |
| 25°   | 16594.3 | 16451.0 | 16479.7 | 16049.9 | 16011.7 | 16447.9 | 17406.2 | 20131.6 | 22389.0 | 19456.6 |
| 27.5° | 18275.4 | 18113.0 | 18027.1 | 17387.1 | 17081.4 | 17298.0 | 17963.4 | 20195.3 | 22955.7 | 19765.4 |
| 30°   | 20376.7 | 20179.4 | 20004.2 | 19096.8 | 18542.8 | 18463.2 | 18829.4 | 20615.5 | 23624.3 | 20090.2 |
| 32.5° | 22952.5 | 22723.3 | 22404.9 | 21201.4 | 20421.3 | 20004.2 | 19950.1 | 21363.7 | 24407.5 | 20504.1 |
| 35°   | 26018.6 | 25719.3 | 25267.2 | 23710.3 | 22723.3 | 21870.0 | 21427.4 | 22443.1 | 25480.5 | 21128.1 |
| 37.5° | 29177.0 | 28839.5 | 28425.6 | 26572.6 | 25359.5 | 24101.9 | 23229.5 | 23907.7 | 26910.0 | 21975.1 |
| 40°   | 32090.2 | 31711.3 | 31326.1 | 29676.8 | 28374.6 | 26859.1 | 25435.9 | 25760.7 | 28658.0 | 22987.5 |
| 42.5° | 33809.5 | 33529.3 | 33382.8 | 32491.4 | 31485.3 | 29947.5 | 28180.4 | 27957.5 | 30622.4 | 24152.8 |
| 45°   | 33733.1 | 33618.5 | 34070.6 | 34439.9 | 34201.1 | 33347.8 | 31396.1 | 30386.8 | 32593.2 | 25162.1 |
| 47.5° | 31931.0 | 32007.4 | 33016.7 | 35092.6 | 36006.4 | 36452.1 | 35057.6 | 32771.5 | 34306.2 | 25916.7 |
| 50°   | 27027.8 | 27091.5 | 29428.5 | 33905.0 | 36471.2 | 38983.3 | 38690.4 | 35099.0 | 35633.8 | 26378.3 |
| 52.5° | 23146.7 | 23188.1 | 24191.0 | 30383.6 | 34936.6 | 40256.8 | 41963.4 | 37292.6 | 36604.9 | 26505.7 |
| 55°   | 17434.9 | 17578.1 | 18702.0 | 23837.6 | 30944.0 | 39247.5 | 43956.5 | 39553.2 | 37219.4 | 26518.4 |
| 57.5° | 10185.2 | 10341.2 | 11729.4 | 16180.4 | 24050.9 | 35729.4 | 44258.9 | 41559.0 | 37636.5 | 26416.5 |
| 60°   | 4989.1  | 5056.0  | 5660.9  | 8504.1  | 14830.5 | 28950.9 | 41826.5 | 42530.1 | 37868.9 | 26362.4 |
| 62.5° | 3362.2  | 3352.6  | 3378.1  | 4196.3  | 7307.0  | 18600.2 | 36757.7 | 40829.9 | 37744.7 | 26155.5 |
| 65°   | 2891.0  | 2855.9  | 2760.4  | 2945.1  | 3785.6  | 8507.3  | 28400.1 | 35754.8 | 36799.1 | 25636.5 |
| 67.5° | 2499.3  | 2502.5  | 2505.7  | 2448.4  | 2703.1  | 3925.7  | 17355.3 | 28164.5 | 33405.1 | 23178.6 |
| 70°   | 2069.5  | 2098.2  | 2110.9  | 2110.9  | 2203.2  | 2575.7  | 7408.9  | 19303.8 | 26349.7 | 18173.5 |
| 72.5° | 1884.8  | 1824.4  | 1830.7  | 1798.9  | 1798.9  | 1961.3  | 2983.3  | 10943.0 | 16600.7 | 10223.4 |
| 75°   | 1537.8  | 1576.0  | 1582.4  | 1560.1  | 1486.9  | 1496.4  | 1770.2  | 4591.1  | 7103.2  | 4240.9  |
| 77.5° | 1327.7  | 1327.7  | 1340.4  | 1324.5  | 1267.2  | 1120.7  | 1181.2  | 1779.8  | 2416.6  | 1738.4  |
| 80°   | 1066.6  | 1063.4  | 1117.5  | 1149.4  | 1060.2  | 827.8   | 754.6   | 983.8   | 1073.0  | 764.1   |
| 82.5° | 519.0   | 550.8   | 767.3   | 875.6   | 805.5   | 598.6   | 461.7   | 611.3   | 573.1   | 337.5   |
| 85°   | 302.5   | 286.5   | 343.9   | 487.1   | 461.7   | 331.1   | 222.9   | 318.4   | 299.3   | 171.9   |
| 87.5° | 95.5    | 89.1    | 70.0    | 165.6   | 133.7   | 92.3    | 60.5    | 92.3    | 82.8    | 38.2    |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15432.2 | 0°    | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 | 15432.2 |
| 15483.1 | 2.5°  | 15257.1 | 14881.4 | 14508.9 | 14168.2 | 13961.3 | 13827.5 | 13693.8 | 13544.2 | 13486.9 | 13400.9 |
| 15524.5 | 5°    | 15104.3 | 14378.3 | 13732.0 | 13174.8 | 12668.6 | 12270.6 | 11869.5 | 11544.7 | 11398.2 | 11496.9 |
| 15655.1 | 7.5°  | 15015.1 | 13964.4 | 12967.9 | 11945.9 | 10962.1 | 10175.6 | 9491.1  | 9010.3  | 8793.8  | 8848.0  |
| 15782.4 | 10°   | 14935.5 | 13496.4 | 11977.7 | 10363.5 | 8949.9  | 7975.6  | 7275.1  | 6909.0  | 6772.1  | 6800.7  |
| 15954.4 | 12.5° | 14862.3 | 12971.1 | 10783.8 | 8660.1  | 7157.3  | 6514.2  | 6313.6  | 6316.8  | 6342.3  | 6361.4  |
| 16228.2 | 15°   | 14849.6 | 12337.5 | 9449.7  | 7170.1  | 6189.4  | 6148.0  | 6364.6  | 6501.5  | 6574.7  | 6597.0  |
| 16457.4 | 17.5° | 14830.5 | 11579.7 | 8090.2  | 6154.4  | 5953.8  | 6234.0  | 6434.6  | 6523.7  | 6581.1  | 6584.2  |
| 16680.3 | 20°   | 14754.0 | 10618.2 | 6835.8  | 5670.5  | 5902.9  | 6144.9  | 6269.0  | 6339.1  | 6386.8  | 6402.8  |
| 16849.0 | 22.5° | 14518.4 | 9548.4  | 5858.3  | 5454.0  | 5699.1  | 5893.3  | 6039.8  | 6119.4  | 6148.0  | 6167.2  |
| 16880.9 | 25°   | 14095.0 | 8351.3  | 5183.3  | 5247.0  | 5415.8  | 5660.9  | 5778.7  | 5794.6  | 5785.1  | 5813.7  |
| 16801.3 | 27.5° | 13541.0 | 7068.2  | 4763.1  | 4966.8  | 5183.3  | 5393.5  | 5457.1  | 5447.6  | 5428.5  | 5460.3  |
| 16664.4 | 30°   | 12872.4 | 5915.6  | 4495.6  | 4651.6  | 4947.7  | 5138.8  | 5196.1  | 5173.8  | 5135.6  | 5170.6  |
| 16594.3 | 32.5° | 12165.6 | 4973.2  | 4275.9  | 4431.9  | 4753.5  | 4941.4  | 4998.7  | 4976.4  | 4947.7  | 4976.4  |
| 16673.9 | 35°   | 11506.5 | 4314.1  | 4072.2  | 4285.5  | 4600.7  | 4785.4  | 4858.6  | 4861.8  | 4861.8  | 4896.8  |
| 16884.0 | 37.5° | 10901.6 | 3928.9  | 3903.4  | 4193.2  | 4495.6  | 4661.2  | 4766.2  | 4772.6  | 4635.7  | 4645.3  |
| 17240.6 | 40°   | 10341.2 | 3766.5  | 3827.0  | 4132.7  | 4393.7  | 4552.9  | 4559.3  | 4202.7  | 3951.2  | 3944.8  |
| 17648.2 | 42.5° | 9882.7  | 3734.7  | 3849.3  | 4126.3  | 4320.5  | 4326.9  | 3878.0  | 3601.0  | 3530.9  | 3534.1  |
| 18023.9 | 45°   | 9452.9  | 3725.1  | 3900.2  | 4126.3  | 4212.3  | 3737.9  | 3435.4  | 3362.2  | 3368.5  | 3394.0  |
| 18192.6 | 47.5° | 8972.1  | 3686.9  | 3909.8  | 4069.0  | 3900.2  | 3324.0  | 3234.8  | 3203.0  | 3190.2  | 3196.6  |
| 18154.4 | 50°   | 8446.8  | 3550.0  | 3788.8  | 3954.4  | 3365.3  | 3145.7  | 3034.2  | 3024.7  | 3040.6  | 3050.1  |
| 17941.1 | 52.5° | 7892.8  | 3327.1  | 3581.9  | 3747.4  | 3120.2  | 2989.7  | 2865.5  | 2887.8  | 2957.8  | 2980.1  |
| 17718.2 | 55°   | 7529.8  | 3066.1  | 3308.0  | 3333.5  | 2948.3  | 2843.2  | 2738.1  | 2789.1  | 2919.6  | 2961.0  |
| 17584.5 | 57.5° | 7434.3  | 2789.1  | 2996.0  | 2967.4  | 2728.6  | 2715.8  | 2652.2  | 2696.7  | 2862.3  | 2922.8  |
| 17578.1 | 60°   | 7405.7  | 2540.7  | 2690.4  | 2668.1  | 2515.3  | 2575.7  | 2559.8  | 2582.1  | 2639.4  | 2658.5  |
| 17514.5 | 62.5° | 7182.8  | 2343.3  | 2416.6  | 2384.7  | 2324.2  | 2429.3  | 2467.5  | 2419.7  | 2464.3  | 2486.6  |
| 17078.3 | 65°   | 6616.1  | 2184.1  | 2149.1  | 2126.8  | 2152.3  | 2247.8  | 2324.2  | 2228.7  | 2270.1  | 2333.8  |
| 15397.2 | 67.5° | 5680.0  | 1967.6  | 1872.1  | 1897.6  | 1977.2  | 2028.1  | 2126.8  | 2018.6  | 2053.6  | 2161.8  |
| 12401.2 | 70°   | 4594.3  | 1693.8  | 1607.9  | 1681.1  | 1757.5  | 1862.6  | 1878.5  | 1805.3  | 1888.0  | 2009.0  |
| 7568.1  | 72.5° | 3250.7  | 1416.8  | 1356.3  | 1506.0  | 1531.4  | 1668.3  | 1633.3  | 1598.3  | 1712.9  | 1754.3  |
| 3741.0  | 75°   | 2254.2  | 1143.0  | 1108.0  | 1222.6  | 1314.9  | 1432.7  | 1407.3  | 1448.7  | 1690.6  | 1709.7  |
| 1868.9  | 77.5° | 1426.4  | 888.3   | 866.0   | 939.2   | 1066.6  | 1197.1  | 1238.5  | 1709.7  | 2887.8  | 3002.4  |
| 971.1   | 80°   | 827.8   | 662.2   | 636.8   | 694.1   | 805.5   | 926.5   | 1194.0  | 2098.2  | 1904.0  | 1881.7  |
| 436.2   | 82.5° | 461.7   | 455.3   | 423.5   | 439.4   | 538.1   | 668.6   | 1687.4  | 1477.3  | 1200.3  | 1238.5  |
| 175.1   | 85°   | 216.5   | 267.4   | 229.2   | 219.7   | 302.5   | 783.2   | 1127.1  | 843.7   | 560.4   | 547.6   |
| 38.2    | 87.5° | 57.3    | 50.9    | 50.9    | 57.3    | 127.4   | 675.0   | 448.9   | 359.8   | 213.3   | 207.0   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF RI

