

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: P954283

Luminaire Tested: **GLAN-SB7C-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954283  
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-SB7C-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48672 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 350.5  
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



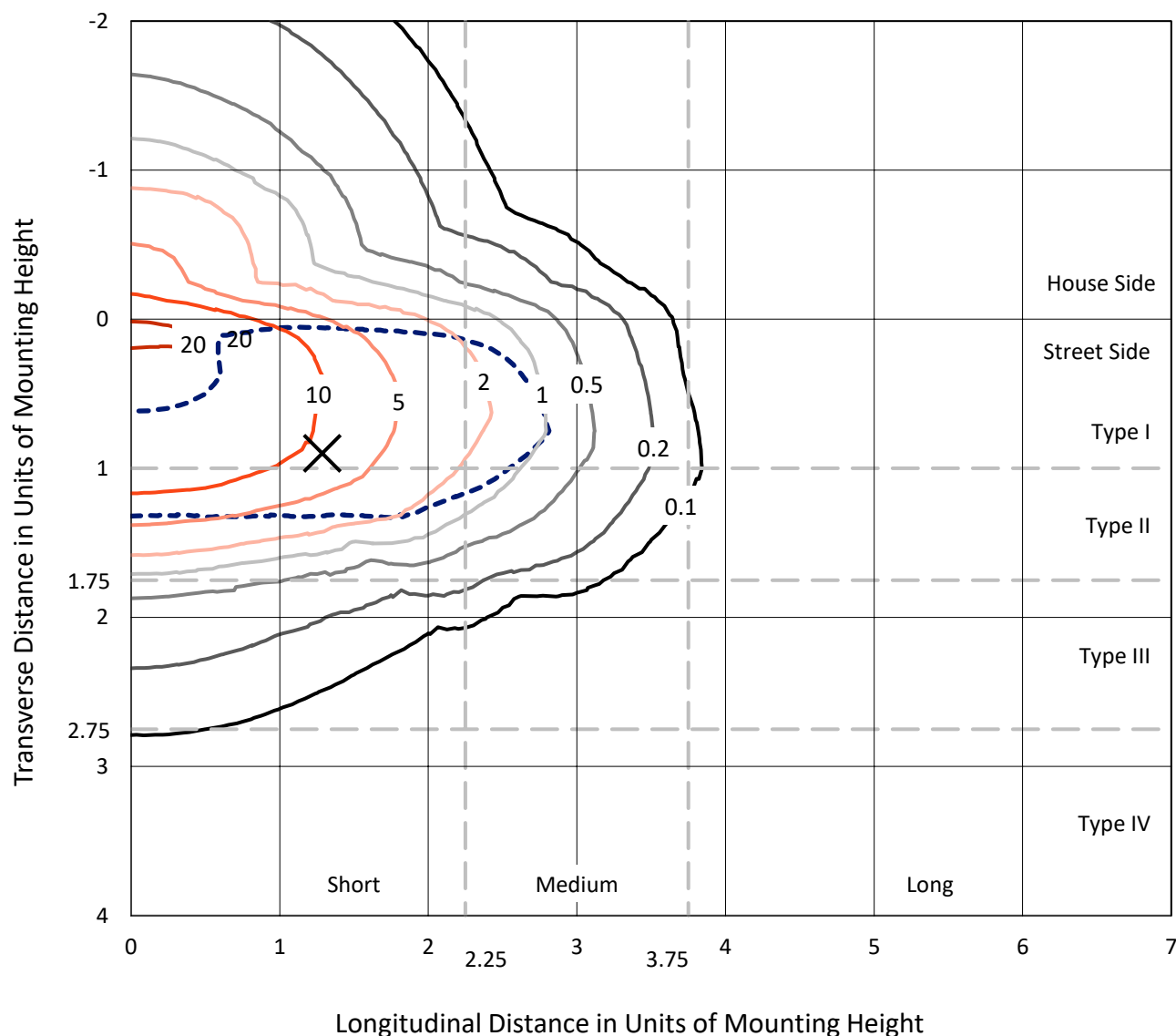
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

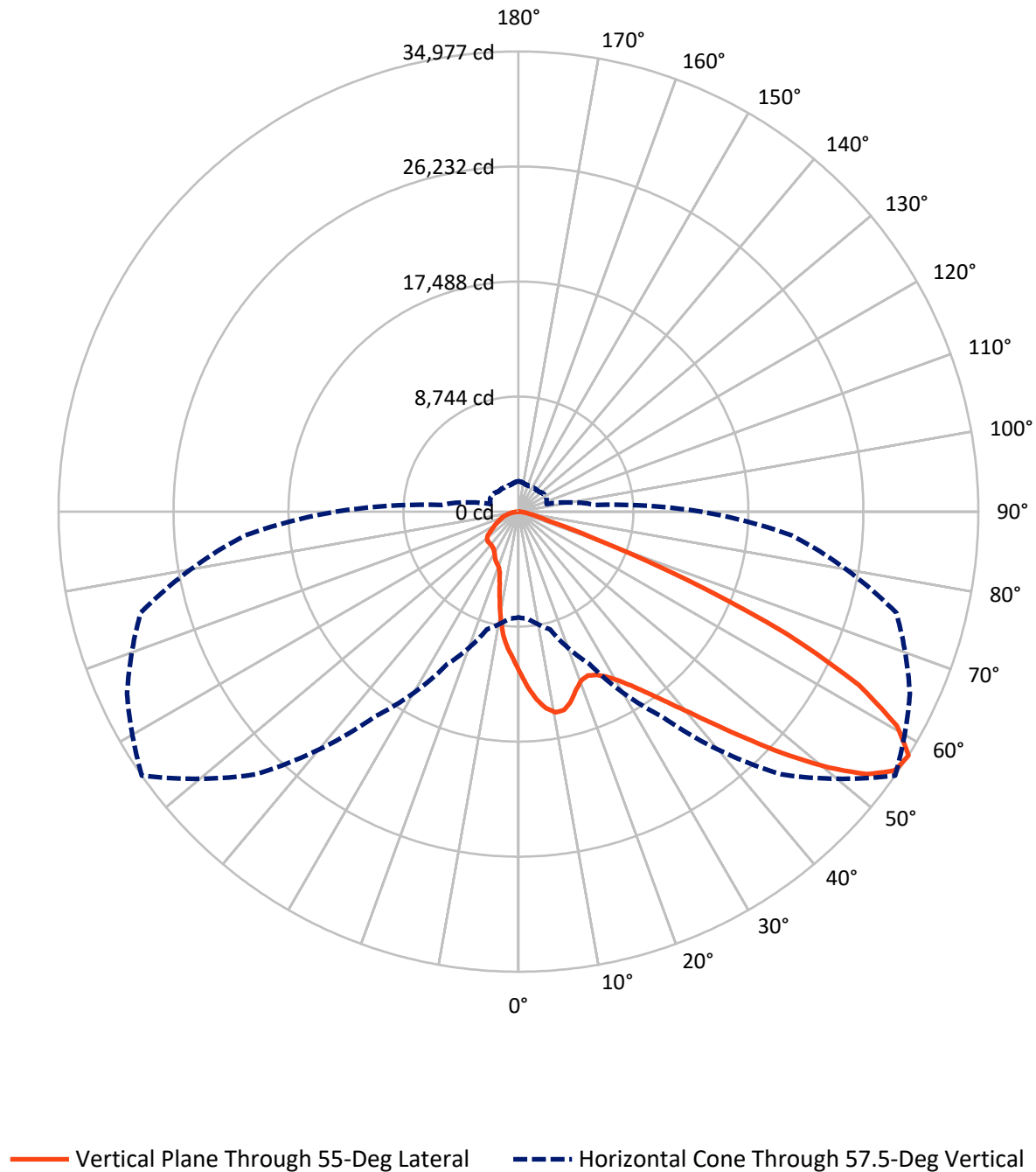


Based on 25 foot mounting height. Maximum calculated value = 23.6 fc

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    | 8807.0   | 0.0    | 8807.0  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 39865.1  | 0.0    | 39865.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 48672.0  | 0.0    | 48672.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1131.7  | 2.3       |
| 10°-20°   | 2856.4  | 5.9       |
| 20°-30°   | 4558.0  | 9.4       |
| 30°-40°   | 7216.5  | 14.8      |
| 40°-50°   | 11045.6 | 22.7      |
| 50°-60°   | 11830.8 | 24.3      |
| 60°-70°   | 7442.8  | 15.3      |
| 70°-80°   | 2201.0  | 4.5       |
| 80°-90°   | 389.2   | 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°    | 48672.0 | 100.0     |
| 0°-180°   | 48672.0 | 100.0     |

**Coefficient of Utilization**



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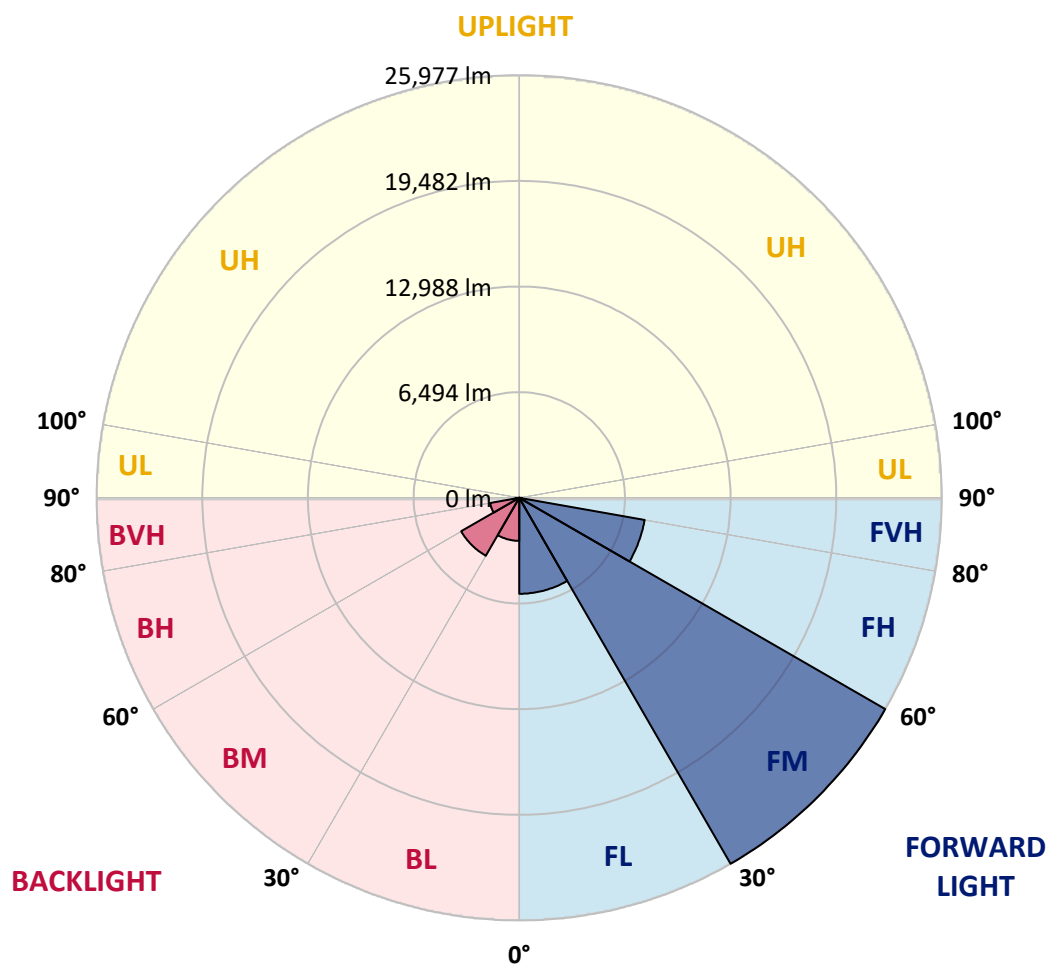
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 5899.0  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 25976.6 | 53.4      |                         |      |          |
| FH   | (60°-80°)   | 7825.0  | 16.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 164.4   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2647.1  | 5.4       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 4116.3  | 8.5       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1818.9  | 3.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 224.7   | 0.5       |                         |      | G2/225   |
| 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°    | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 |
| 2.5°  | 13992.1 | 13982.1 | 14037.4 | 13848.7 | 13720.4 | 13546.8 | 13317.8 | 13025.9 | 12711.4 | 12379.3 |
| 5°    | 15252.7 | 15164.6 | 15222.5 | 15081.6 | 14940.7 | 14679.0 | 14339.4 | 13863.8 | 13282.6 | 12620.8 |
| 7.5°  | 15053.9 | 14993.5 | 15142.0 | 15267.8 | 15373.5 | 15340.8 | 15091.7 | 14593.5 | 13843.7 | 12882.5 |
| 10°   | 13451.2 | 13383.2 | 13592.1 | 14027.4 | 14666.5 | 15222.5 | 15524.4 | 15215.0 | 14417.4 | 13169.4 |
| 12.5° | 12037.1 | 12004.4 | 12142.8 | 12495.0 | 13204.6 | 14271.4 | 15469.1 | 15758.4 | 15013.7 | 13509.0 |
| 15°   | 11433.2 | 11393.0 | 11481.0 | 11659.7 | 12112.6 | 13106.5 | 14965.9 | 16130.8 | 15599.9 | 13901.6 |
| 17.5° | 11299.9 | 11254.6 | 11292.3 | 11385.4 | 11677.3 | 12434.7 | 14206.0 | 16314.5 | 16211.3 | 14339.4 |
| 20°   | 11546.5 | 11508.7 | 11513.8 | 11508.7 | 11712.5 | 12313.9 | 13677.6 | 16244.1 | 16744.8 | 14741.9 |
| 22.5° | 12142.8 | 12079.9 | 12082.4 | 11949.0 | 12059.8 | 12525.2 | 13539.2 | 16055.3 | 17220.3 | 15094.2 |
| 25°   | 13114.0 | 13000.8 | 13023.4 | 12683.8 | 12653.6 | 12998.3 | 13755.6 | 15909.4 | 17693.3 | 15376.0 |
| 27.5° | 14442.5 | 14314.2 | 14246.3 | 13740.5 | 13499.0 | 13670.1 | 14195.9 | 15959.7 | 18141.2 | 15620.1 |
| 30°   | 16103.2 | 15947.2 | 15808.8 | 15091.7 | 14653.9 | 14591.0 | 14880.3 | 16291.9 | 18669.6 | 15876.7 |
| 32.5° | 18138.7 | 17957.5 | 17705.9 | 16754.8 | 16138.4 | 15808.8 | 15766.0 | 16883.2 | 19288.6 | 16203.8 |
| 35°   | 20561.7 | 20325.2 | 19967.9 | 18737.5 | 17957.5 | 17283.2 | 16933.5 | 17736.1 | 20136.5 | 16697.0 |
| 37.5° | 23057.7 | 22791.0 | 22463.9 | 20999.5 | 20040.9 | 19047.0 | 18357.6 | 18893.5 | 21266.2 | 17366.2 |
| 40°   | 25360.0 | 25060.5 | 24756.1 | 23452.7 | 22423.6 | 21226.0 | 20101.3 | 20357.9 | 22647.6 | 18166.4 |
| 42.5° | 26718.7 | 26497.2 | 26381.5 | 25677.0 | 24881.9 | 23666.6 | 22270.2 | 22094.0 | 24200.0 | 19087.3 |
| 45°   | 26658.3 | 26567.7 | 26925.0 | 27216.8 | 27028.1 | 26353.8 | 24811.4 | 24013.8 | 25757.5 | 19884.9 |
| 47.5° | 25234.1 | 25294.5 | 26092.1 | 27732.7 | 28454.8 | 28807.0 | 27705.0 | 25898.4 | 27111.2 | 20481.2 |
| 50°   | 21359.3 | 21409.6 | 23256.5 | 26794.1 | 28822.1 | 30807.3 | 30575.9 | 27737.7 | 28160.4 | 20846.0 |
| 52.5° | 18292.2 | 18324.9 | 19117.5 | 24011.3 | 27609.4 | 31813.8 | 33162.4 | 29471.3 | 28927.8 | 20946.7 |
| 55°   | 13778.3 | 13891.5 | 14779.7 | 18838.2 | 24454.1 | 31016.2 | 34737.5 | 31257.7 | 29413.4 | 20956.7 |
| 57.5° | 8049.1  | 8172.4  | 9269.4  | 12786.9 | 19006.8 | 28235.9 | 34976.6 | 32842.9 | 29743.0 | 20876.2 |
| 60°   | 3942.8  | 3995.6  | 4473.7  | 6720.6  | 11720.1 | 22879.1 | 33054.2 | 33610.3 | 29926.7 | 20833.5 |
| 62.5° | 2657.0  | 2649.5  | 2669.6  | 3316.2  | 5774.5  | 14699.2 | 29048.6 | 32266.7 | 29828.6 | 20669.9 |
| 65°   | 2284.6  | 2257.0  | 2181.5  | 2327.4  | 2991.7  | 6723.1  | 22443.8 | 28256.0 | 29081.3 | 20259.8 |
| 67.5° | 1975.2  | 1977.7  | 1980.2  | 1934.9  | 2136.2  | 3102.4  | 13715.4 | 22257.6 | 26399.1 | 18317.3 |
| 70°   | 1635.5  | 1658.1  | 1668.2  | 1668.2  | 1741.2  | 2035.5  | 5855.0  | 15255.2 | 20823.4 | 14362.0 |
| 72.5° | 1489.5  | 1441.7  | 1446.8  | 1421.6  | 1421.6  | 1549.9  | 2357.6  | 8647.9  | 13119.0 | 8079.3  |
| 75°   | 1215.3  | 1245.5  | 1250.5  | 1232.9  | 1175.0  | 1182.6  | 1399.0  | 3628.2  | 5613.5  | 3351.5  |
| 77.5° | 1049.2  | 1049.2  | 1059.3  | 1046.7  | 1001.4  | 885.7   | 933.5   | 1406.5  | 1909.7  | 1373.8  |
| 80°   | 842.9   | 840.4   | 883.2   | 908.3   | 837.9   | 654.2   | 596.3   | 777.5   | 847.9   | 603.9   |
| 82.5° | 410.1   | 435.3   | 606.4   | 691.9   | 636.6   | 473.0   | 364.8   | 483.1   | 452.9   | 266.7   |
| 85°   | 239.0   | 226.5   | 271.7   | 385.0   | 364.8   | 261.7   | 176.1   | 251.6   | 236.5   | 135.9   |
| 87.5° | 75.5    | 70.5    | 55.4    | 130.8   | 105.7   | 73.0    | 47.8    | 73.0    | 65.4    | 30.2    |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 12195.6 | 0°    | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 | 12195.6 |
| 12235.9 | 2.5°  | 12057.2 | 11760.3 | 11465.9 | 11196.7 | 11033.2 | 10927.5 | 10821.8 | 10703.6 | 10658.3 | 10590.3 |
| 12268.6 | 5°    | 11936.5 | 11362.8 | 10852.0 | 10411.7 | 10011.6 | 9697.1  | 9380.1  | 9123.4  | 9007.7  | 9085.7  |
| 12371.8 | 7.5°  | 11866.0 | 11035.7 | 10248.1 | 9440.5  | 8663.0  | 8041.5  | 7500.5  | 7120.6  | 6949.5  | 6992.3  |
| 12472.4 | 10°   | 11803.1 | 10665.8 | 9465.6  | 8190.0  | 7072.8  | 6302.9  | 5749.3  | 5460.0  | 5351.8  | 5374.4  |
| 12608.3 | 12.5° | 11745.2 | 10250.7 | 8522.1  | 6843.8  | 5656.2  | 5148.0  | 4989.5  | 4992.0  | 5012.1  | 5027.2  |
| 12824.7 | 15°   | 11735.2 | 9750.0  | 7467.8  | 5666.3  | 4891.3  | 4858.6  | 5029.7  | 5137.9  | 5195.8  | 5213.4  |
| 13005.8 | 17.5° | 11720.1 | 9151.1  | 6393.5  | 4863.7  | 4705.1  | 4926.6  | 5085.1  | 5155.5  | 5200.8  | 5203.3  |
| 13181.9 | 20°   | 11659.7 | 8391.3  | 5402.1  | 4481.2  | 4664.9  | 4856.1  | 4954.2  | 5009.6  | 5047.3  | 5059.9  |
| 13315.3 | 22.5° | 11473.5 | 7545.8  | 4629.7  | 4310.1  | 4503.9  | 4657.3  | 4773.1  | 4836.0  | 4858.6  | 4873.7  |
| 13340.5 | 25°   | 11138.9 | 6599.8  | 4096.2  | 4146.6  | 4279.9  | 4473.7  | 4566.8  | 4579.3  | 4571.8  | 4594.4  |
| 13277.6 | 27.5° | 10701.0 | 5585.8  | 3764.1  | 3925.1  | 4096.2  | 4262.3  | 4312.6  | 4305.1  | 4290.0  | 4315.1  |
| 13169.4 | 30°   | 10172.7 | 4674.9  | 3552.8  | 3676.0  | 3910.0  | 4061.0  | 4106.3  | 4088.7  | 4058.5  | 4086.2  |
| 13114.0 | 32.5° | 9614.1  | 3930.2  | 3379.1  | 3502.4  | 3756.6  | 3905.0  | 3950.3  | 3932.7  | 3910.0  | 3932.7  |
| 13176.9 | 35°   | 9093.2  | 3409.3  | 3218.1  | 3386.7  | 3635.8  | 3781.7  | 3839.6  | 3842.1  | 3842.1  | 3869.8  |
| 13343.0 | 37.5° | 8615.2  | 3104.9  | 3084.8  | 3313.7  | 3552.8  | 3683.6  | 3766.6  | 3771.7  | 3663.5  | 3671.0  |
| 13624.8 | 40°   | 8172.4  | 2976.6  | 3024.4  | 3265.9  | 3472.2  | 3598.0  | 3603.1  | 3321.3  | 3122.5  | 3117.5  |
| 13946.8 | 42.5° | 7810.0  | 2951.4  | 3042.0  | 3260.9  | 3414.4  | 3419.4  | 3064.6  | 2845.7  | 2790.4  | 2792.9  |
| 14243.7 | 45°   | 7470.4  | 2943.9  | 3082.2  | 3260.9  | 3328.8  | 2953.9  | 2714.9  | 2657.0  | 2662.1  | 2682.2  |
| 14377.1 | 47.5° | 7090.4  | 2913.7  | 3089.8  | 3215.6  | 3082.2  | 2626.8  | 2556.4  | 2531.2  | 2521.2  | 2526.2  |
| 14346.9 | 50°   | 6675.3  | 2805.5  | 2994.2  | 3125.0  | 2659.5  | 2485.9  | 2397.9  | 2390.3  | 2402.9  | 2410.4  |
| 14178.3 | 52.5° | 6237.5  | 2629.3  | 2830.6  | 2961.5  | 2465.8  | 2362.6  | 2264.5  | 2282.1  | 2337.5  | 2355.1  |
| 14002.2 | 55°   | 5950.6  | 2423.0  | 2614.2  | 2634.4  | 2329.9  | 2246.9  | 2163.9  | 2204.1  | 2307.3  | 2340.0  |
| 13896.5 | 57.5° | 5875.1  | 2204.1  | 2367.7  | 2345.0  | 2156.3  | 2146.2  | 2095.9  | 2131.2  | 2262.0  | 2309.8  |
| 13891.5 | 60°   | 5852.5  | 2007.9  | 2126.1  | 2108.5  | 1987.7  | 2035.5  | 2023.0  | 2040.6  | 2085.9  | 2101.0  |
| 13841.2 | 62.5° | 5676.4  | 1851.9  | 1909.7  | 1884.6  | 1836.8  | 1919.8  | 1950.0  | 1912.2  | 1947.5  | 1965.1  |
| 13496.5 | 65°   | 5228.5  | 1726.1  | 1698.4  | 1680.8  | 1700.9  | 1776.4  | 1836.8  | 1761.3  | 1794.0  | 1844.3  |
| 12167.9 | 67.5° | 4488.8  | 1555.0  | 1479.5  | 1499.6  | 1562.5  | 1602.8  | 1680.8  | 1595.2  | 1622.9  | 1708.4  |
| 9800.3  | 70°   | 3630.8  | 1338.6  | 1270.6  | 1328.5  | 1388.9  | 1471.9  | 1484.5  | 1426.6  | 1492.1  | 1587.7  |
| 5980.8  | 72.5° | 2569.0  | 1119.7  | 1071.9  | 1190.1  | 1210.3  | 1318.4  | 1290.8  | 1263.1  | 1353.7  | 1386.4  |
| 2956.4  | 75°   | 1781.4  | 903.3   | 875.6   | 966.2   | 1039.2  | 1132.3  | 1112.1  | 1144.8  | 1336.1  | 1351.2  |
| 1477.0  | 77.5° | 1127.2  | 702.0   | 684.4   | 742.3   | 842.9   | 946.1   | 978.8   | 1351.2  | 2282.1  | 2372.7  |
| 767.4   | 80°   | 654.2   | 523.4   | 503.2   | 548.5   | 636.6   | 732.2   | 943.5   | 1658.1  | 1504.6  | 1487.0  |
| 344.7   | 82.5° | 364.8   | 359.8   | 334.6   | 347.2   | 425.2   | 528.4   | 1333.5  | 1167.5  | 948.6   | 978.8   |
| 138.4   | 85°   | 171.1   | 211.4   | 181.2   | 173.6   | 239.0   | 619.0   | 890.7   | 666.8   | 442.8   | 432.8   |
| 30.2    | 87.5° | 45.3    | 40.3    | 40.3    | 45.3    | 100.6   | 533.4   | 354.8   | 284.3   | 168.6   | 163.5   |
| 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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