

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: McGRAW-EDISON

Report Number: P647612

Luminaire Tested: **GALN-SA8D-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42161.4 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

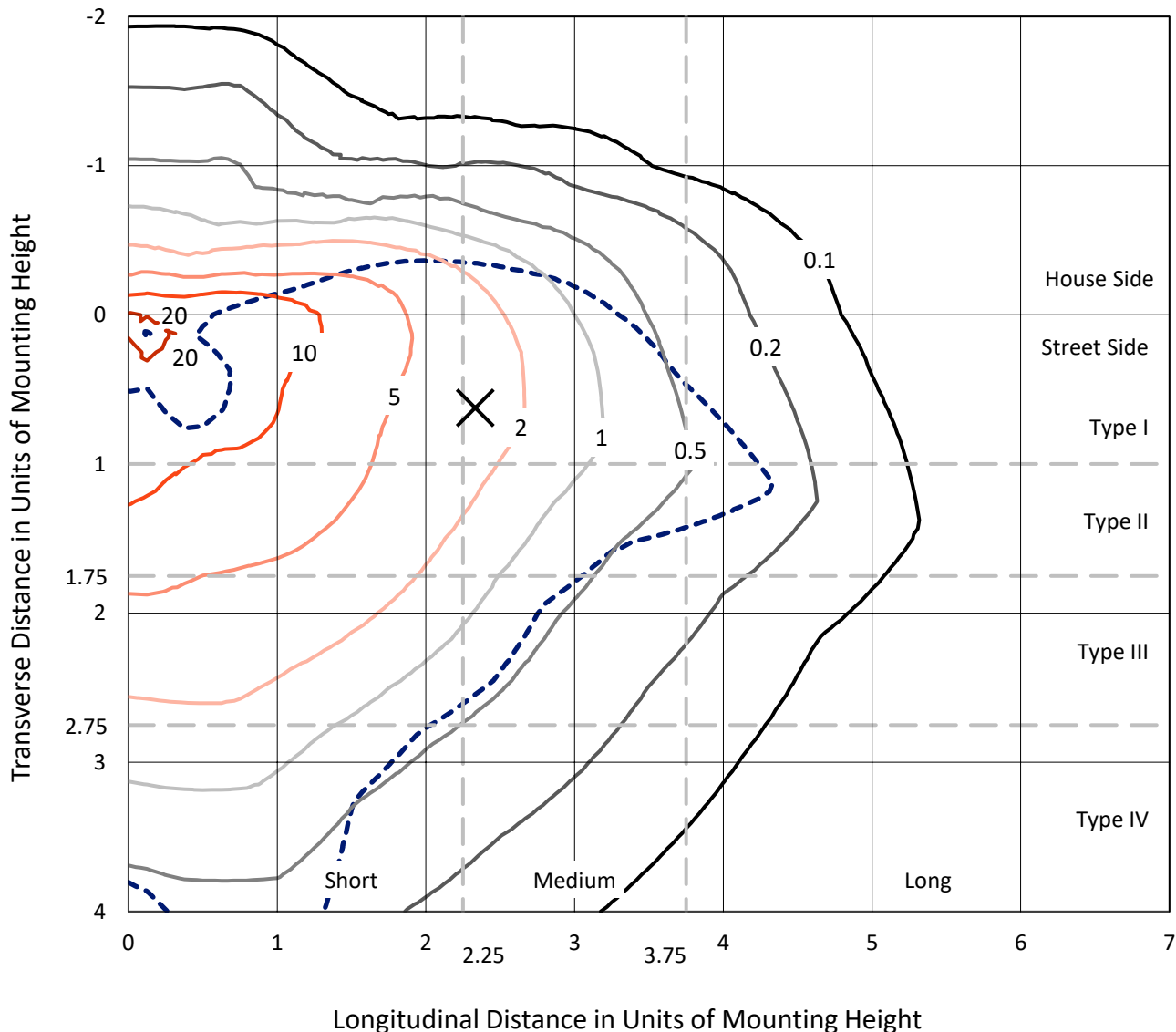
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

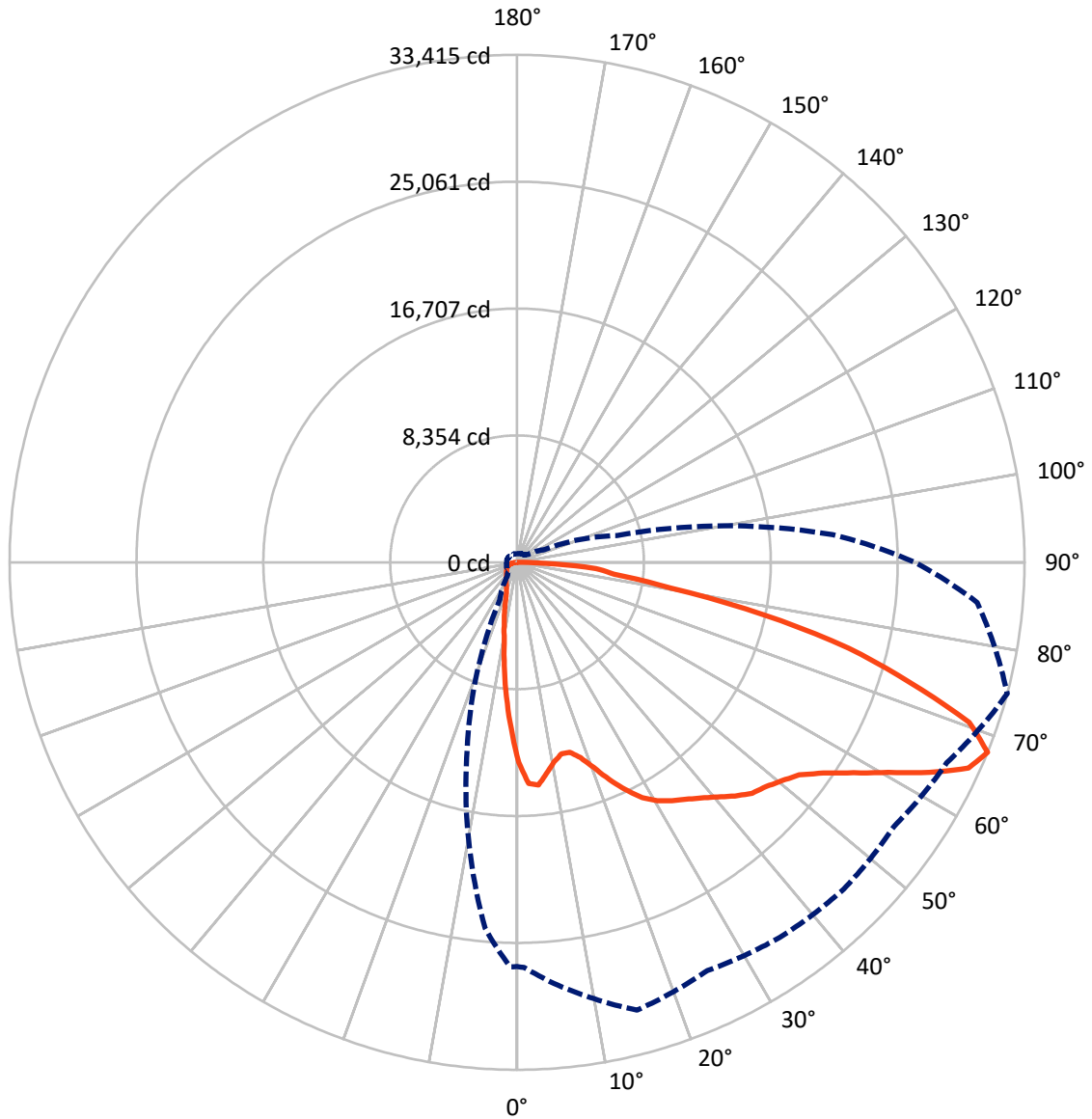
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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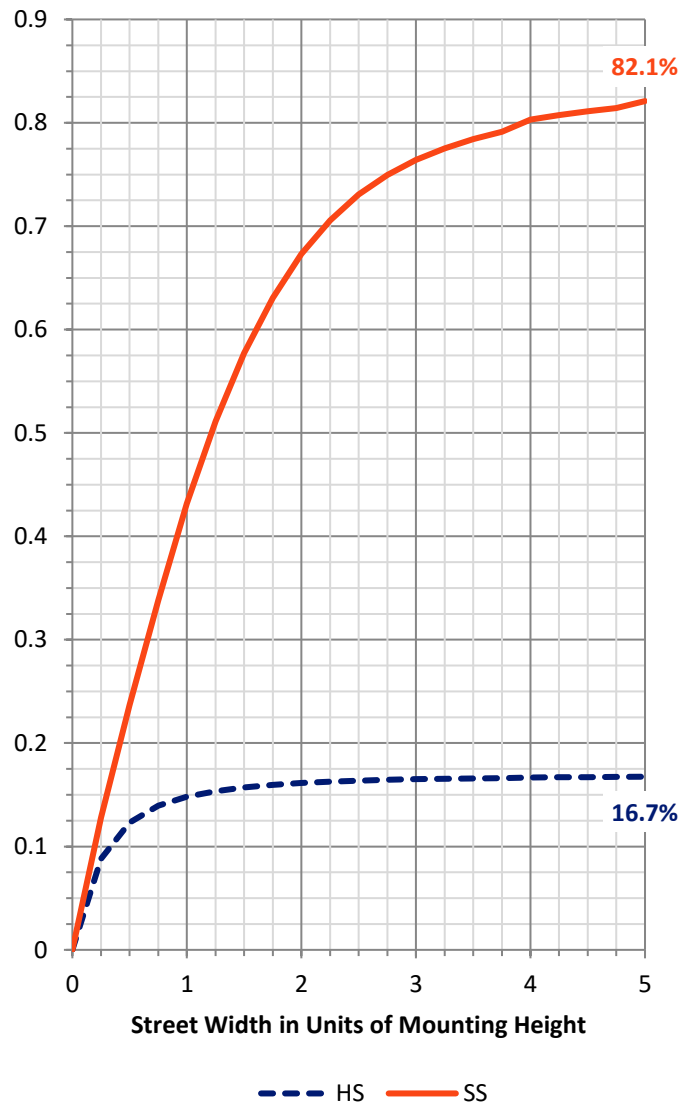
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7126.2   | 0.0    | 7126.2  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 35035.2  | 0.0    | 35035.2 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 42161.4  | 0.0    | 42161.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 999.1   | 2.4       |
| 10°-20°   | 2083.6  | 4.9       |
| 20°-30°   | 2998.3  | 7.1       |
| 30°-40°   | 4318.4  | 10.2      |
| 40°-50°   | 6066.2  | 14.4      |
| 50°-60°   | 8460.3  | 20.1      |
| 60°-70°   | 10058.7 | 23.9      |
| 70°-80°   | 5924.0  | 14.1      |
| 80°-90°   | 1252.7  | 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°    | 42161.4 | 100.0     |
| 0°-180°   | 42161.4 | 100.0     |

**Coefficient of Utilization**

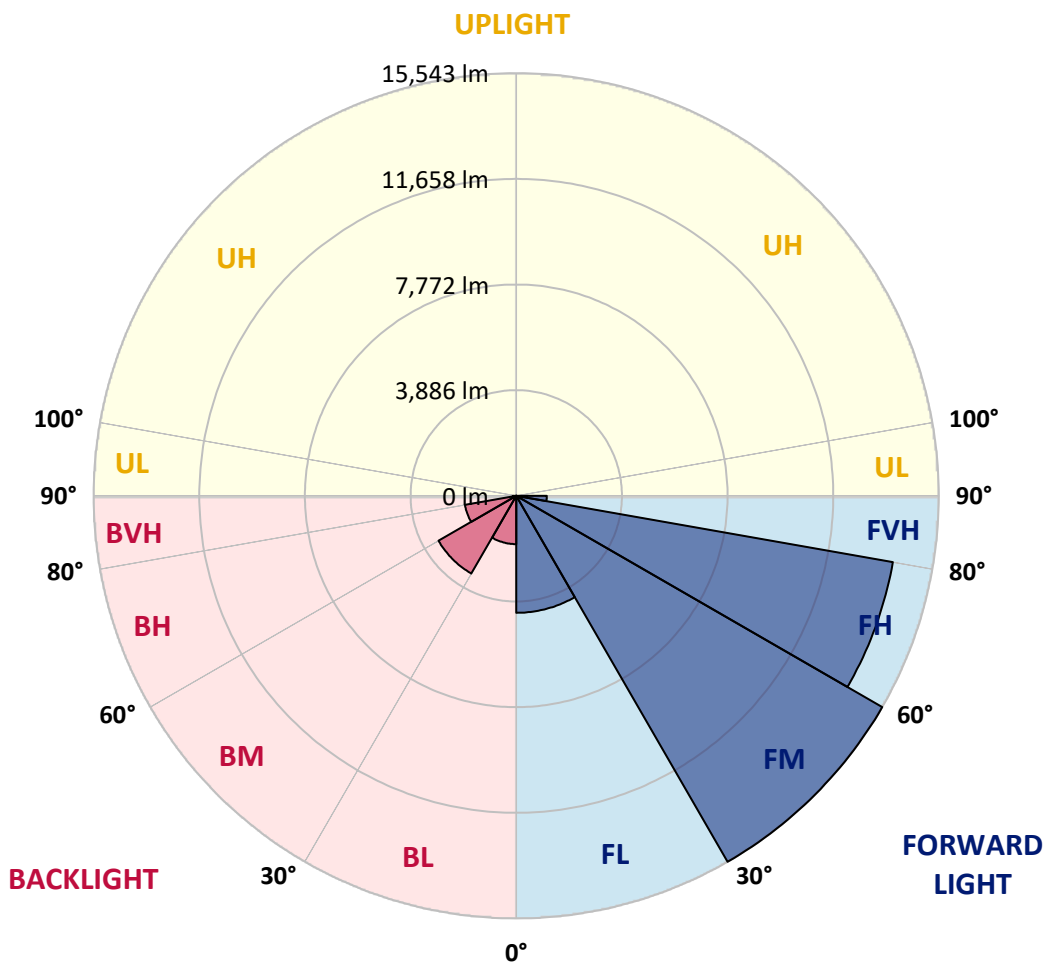


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4303.5  | 10.2      |                         |      |         |
| FM (30°-60°)   | 15543.4 | 36.9      |                         |      |         |
| FH (60°-80°)   | 14065.2 | 33.4      |                         |      | G5      |
| FVH (80°-90°)  | 1123.1  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1777.5  | 4.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 3301.6  | 7.8       | B3/5000                 |      |         |
| BH (60°-80°)   | 1917.5  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 129.6   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 |
| 2.5°  | 14202.3 | 14221.2 | 14342.9 | 14697.1 | 14940.4 | 15029.6 | 15091.9 | 14975.6 | 14862.0 | 14586.3 | 14169.9 |
| 5°    | 14159.1 | 14269.9 | 14586.3 | 15381.1 | 16008.4 | 16278.7 | 16359.8 | 16011.1 | 15435.2 | 14726.8 | 13875.2 |
| 7.5°  | 13331.7 | 13480.4 | 13967.1 | 15300.0 | 16405.8 | 17038.5 | 16954.6 | 16324.7 | 15286.5 | 14023.8 | 12834.2 |
| 10°   | 12350.3 | 12515.2 | 13101.9 | 14713.3 | 16138.1 | 17008.7 | 17008.7 | 16240.9 | 14862.0 | 13361.5 | 11990.7 |
| 12.5° | 11571.6 | 11744.7 | 12415.2 | 14110.4 | 15581.2 | 16405.8 | 16543.7 | 15884.0 | 14556.5 | 12942.4 | 11436.5 |
| 15°   | 11314.8 | 11482.5 | 12204.3 | 13745.4 | 14991.8 | 15494.6 | 15540.6 | 15324.3 | 14407.8 | 12972.1 | 11412.1 |
| 17.5° | 11633.8 | 11850.2 | 12580.1 | 13853.5 | 14451.0 | 14480.8 | 14516.0 | 14686.3 | 14424.0 | 13515.6 | 11904.2 |
| 20°   | 12555.8 | 12788.3 | 13550.8 | 14202.3 | 13977.9 | 13669.7 | 13688.6 | 14126.7 | 14615.9 | 14413.2 | 13080.3 |
| 22.5° | 13886.0 | 14088.8 | 14870.1 | 14816.1 | 13777.8 | 13142.5 | 13010.0 | 13621.1 | 14899.9 | 15532.5 | 14332.1 |
| 25°   | 15321.7 | 15559.5 | 16457.2 | 15727.2 | 13834.6 | 12828.8 | 12745.0 | 13323.6 | 15194.6 | 16578.9 | 15778.5 |
| 27.5° | 16965.5 | 17198.0 | 17906.3 | 16646.4 | 14132.1 | 12804.6 | 12704.5 | 13296.6 | 15459.6 | 17546.7 | 17160.1 |
| 30°   | 18187.5 | 18401.1 | 18882.4 | 17419.6 | 14497.0 | 12966.7 | 12842.4 | 13510.2 | 15686.6 | 18209.1 | 18506.5 |
| 32.5° | 19147.3 | 19369.0 | 19631.3 | 17900.9 | 14978.2 | 13261.4 | 13031.6 | 13899.5 | 15984.0 | 18714.7 | 19504.2 |
| 35°   | 20147.7 | 20409.9 | 20391.0 | 18328.1 | 15427.1 | 13602.1 | 13377.7 | 14461.9 | 16451.8 | 19155.4 | 20769.5 |
| 37.5° | 21415.7 | 21521.1 | 21385.9 | 18712.1 | 15965.1 | 14215.8 | 14091.5 | 15297.3 | 17116.8 | 19688.1 | 22248.4 |
| 40°   | 22702.6 | 22913.5 | 22218.6 | 19177.1 | 16619.4 | 15370.3 | 15356.7 | 16532.9 | 17906.3 | 20312.6 | 23681.4 |
| 42.5° | 23805.7 | 23984.2 | 22997.3 | 19582.6 | 17411.6 | 16778.9 | 16881.6 | 18190.2 | 18941.9 | 21037.2 | 24833.1 |
| 45°   | 24635.8 | 24795.3 | 23716.5 | 19974.6 | 18455.2 | 18406.5 | 19012.1 | 19966.5 | 20247.7 | 21688.8 | 25509.0 |
| 47.5° | 25341.4 | 25495.5 | 24216.7 | 20569.4 | 19744.8 | 20350.4 | 21404.9 | 21818.5 | 21364.3 | 22061.9 | 26266.0 |
| 50°   | 25936.2 | 25982.1 | 24560.0 | 21277.8 | 21345.4 | 22732.4 | 23754.3 | 24022.0 | 22467.4 | 22597.1 | 26923.1 |
| 52.5° | 26555.4 | 26495.9 | 25152.2 | 22170.0 | 23075.7 | 24992.7 | 25736.1 | 26014.6 | 23524.5 | 23256.9 | 27880.1 |
| 55°   | 27942.3 | 27999.1 | 26479.7 | 23294.7 | 24825.0 | 27212.3 | 28191.1 | 27923.4 | 24695.2 | 24470.8 | 29096.7 |
| 57.5° | 29618.5 | 29569.9 | 28347.9 | 25054.8 | 26606.7 | 29277.9 | 30007.9 | 29578.1 | 26257.9 | 26139.0 | 30329.7 |
| 60°   | 30270.2 | 30335.1 | 29910.6 | 26947.3 | 28364.1 | 31086.7 | 31832.9 | 31165.0 | 28131.5 | 28077.5 | 31259.7 |
| 62.5° | 29615.9 | 29980.8 | 30267.5 | 28631.7 | 29861.9 | 32416.9 | 33157.7 | 32395.2 | 30086.3 | 30478.4 | 31911.3 |
| 65°   | 28312.7 | 28391.1 | 29367.1 | 30059.3 | 30583.8 | 32635.8 | 33022.5 | 32617.0 | 31719.3 | 32665.6 | 31881.6 |
| 67.5° | 26620.2 | 26687.9 | 27831.5 | 30527.0 | 29653.7 | 30148.5 | 30418.8 | 30299.9 | 31213.7 | 33414.5 | 30413.4 |
| 70°   | 25008.9 | 24954.8 | 26163.3 | 29334.7 | 25814.6 | 25062.9 | 25287.3 | 24914.2 | 26933.9 | 31584.1 | 27534.0 |
| 72.5° | 21872.6 | 22067.3 | 23365.0 | 26020.0 | 20439.7 | 19217.6 | 19706.9 | 18741.7 | 20715.4 | 27050.1 | 22348.5 |
| 75°   | 17133.1 | 17179.0 | 19344.6 | 21837.5 | 15419.0 | 13491.2 | 14153.7 | 13750.8 | 15867.8 | 22564.7 | 15432.5 |
| 77.5° | 11863.6 | 11760.9 | 14088.8 | 16678.8 | 10995.7 | 9876.4  | 9887.3  | 9695.3  | 11079.6 | 16614.0 | 10484.8 |
| 80°   | 7535.1  | 7378.3  | 8819.3  | 10303.7 | 7556.7  | 8083.9  | 7819.0  | 7810.9  | 7213.4  | 10249.5 | 6340.1  |
| 82.5° | 4071.7  | 4244.7  | 5572.2  | 6459.0  | 5420.9  | 6248.2  | 5726.3  | 5558.8  | 4950.4  | 6415.7  | 4055.5  |
| 85°   | 1854.7  | 2016.9  | 2971.3  | 4393.4  | 4117.6  | 4163.6  | 2782.1  | 3282.3  | 4096.0  | 5209.9  | 2165.6  |
| 87.5° | 181.1   | 232.6   | 613.7   | 2073.7  | 1405.9  | 1108.5  | 413.7   | 797.6   | 1030.1  | 1852.0  | 173.0   |
| 90°   | 0.0     | 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°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 |
| 2.5°  | 13999.6 | 13858.9 | 13380.4 | 12985.7 | 12566.6 | 12247.6 | 11831.2 | 11552.7 | 11360.8 | 11071.5 | 11036.3 |
| 5°    | 13356.1 | 13012.7 | 12180.0 | 11331.0 | 10598.4 | 10046.8 | 9487.1  | 8973.4  | 8670.6  | 8576.0  | 8454.4  |
| 7.5°  | 12271.9 | 11693.3 | 10622.6 | 9649.4  | 8808.5  | 7986.6  | 7353.9  | 6905.1  | 6605.1  | 6429.3  | 6218.4  |
| 10°   | 11379.7 | 10709.2 | 9406.0  | 8213.7  | 7521.6  | 7010.6  | 6453.6  | 5972.4  | 5602.0  | 5285.6  | 5112.6  |
| 12.5° | 10779.5 | 10022.5 | 8557.1  | 7589.1  | 7053.8  | 6510.4  | 5858.8  | 5318.1  | 4772.0  | 4412.4  | 4258.3  |
| 15°   | 10598.4 | 9798.1  | 8294.8  | 7278.2  | 6510.4  | 5799.4  | 5069.4  | 4363.7  | 3823.0  | 3482.3  | 3368.8  |
| 17.5° | 11041.7 | 10073.8 | 8292.1  | 6864.6  | 5872.3  | 5023.4  | 4088.0  | 3425.5  | 2871.3  | 2617.2  | 2536.1  |
| 20°   | 11869.0 | 10603.8 | 8316.5  | 6456.3  | 5180.2  | 3985.2  | 2974.0  | 2430.6  | 2165.6  | 2057.5  | 2016.9  |
| 22.5° | 13023.6 | 11412.1 | 8389.5  | 6053.5  | 4423.2  | 3060.5  | 2227.8  | 1952.0  | 1857.4  | 1838.5  | 1830.3  |
| 25°   | 14445.6 | 12412.5 | 8635.5  | 5691.2  | 3785.1  | 2335.9  | 1862.8  | 1738.4  | 1684.4  | 1665.4  | 1662.8  |
| 27.5° | 15754.2 | 13704.8 | 8932.9  | 5380.3  | 3168.7  | 2014.2  | 1684.4  | 1578.9  | 1524.9  | 1522.2  | 1527.6  |
| 30°   | 16935.7 | 14786.3 | 9181.6  | 5031.5  | 2701.0  | 1789.9  | 1568.1  | 1462.6  | 1411.3  | 1408.6  | 1424.8  |
| 32.5° | 17957.7 | 15675.8 | 9365.5  | 4688.1  | 2441.4  | 1652.0  | 1462.6  | 1349.1  | 1305.9  | 1297.7  | 1305.9  |
| 35°   | 19050.0 | 16562.6 | 9281.7  | 4420.5  | 2292.7  | 1538.4  | 1384.3  | 1273.4  | 1222.0  | 1197.8  | 1197.8  |
| 37.5° | 20296.4 | 17476.5 | 9138.4  | 4198.8  | 2225.1  | 1443.8  | 1316.7  | 1208.6  | 1157.2  | 1132.8  | 1130.1  |
| 40°   | 21656.3 | 18390.3 | 8941.0  | 4001.4  | 2157.6  | 1387.0  | 1270.7  | 1157.2  | 1094.9  | 1070.7  | 1065.3  |
| 42.5° | 22856.7 | 19171.7 | 8778.8  | 3871.6  | 2046.7  | 1397.8  | 1230.2  | 1119.3  | 1040.9  | 1008.4  | 1005.8  |
| 45°   | 23900.4 | 19958.4 | 8749.0  | 3795.9  | 1954.8  | 1381.6  | 1219.4  | 1089.5  | 997.6   | 962.5   | 957.1   |
| 47.5° | 24716.9 | 20777.6 | 8919.4  | 3752.7  | 1854.7  | 1295.1  | 1289.7  | 1070.7  | 959.8   | 922.0   | 916.5   |
| 50°   | 25711.8 | 21940.2 | 9308.7  | 3663.4  | 1762.8  | 1214.0  | 1362.7  | 1067.9  | 930.0   | 881.4   | 867.9   |
| 52.5° | 27036.6 | 23454.2 | 9835.9  | 3503.9  | 1630.3  | 1138.2  | 1300.5  | 1067.9  | 894.9   | 846.3   | 830.1   |
| 55°   | 29040.0 | 25384.6 | 10352.3 | 3279.5  | 1443.8  | 1038.2  | 1173.4  | 1035.5  | 843.5   | 800.3   | 789.5   |
| 57.5° | 30367.5 | 26796.0 | 10682.2 | 2968.6  | 1211.2  | 965.2   | 1011.2  | 984.2   | 792.2   | 746.2   | 746.2   |
| 60°   | 30435.1 | 27174.5 | 10525.3 | 2576.6  | 1065.3  | 897.6   | 878.7   | 992.2   | 746.2   | 697.6   | 692.2   |
| 62.5° | 29656.4 | 26247.1 | 9708.8  | 2225.1  | 986.8   | 824.6   | 794.9   | 870.5   | 700.2   | 651.6   | 643.5   |
| 65°   | 28439.8 | 23881.4 | 8292.1  | 2057.5  | 943.6   | 759.7   | 716.4   | 713.8   | 651.6   | 605.7   | 594.8   |
| 67.5° | 26203.9 | 20869.5 | 6813.2  | 1960.2  | 922.0   | 686.7   | 646.2   | 632.7   | 594.8   | 556.9   | 551.5   |
| 70°   | 22908.1 | 17479.1 | 5464.1  | 1919.6  | 911.1   | 611.1   | 578.6   | 562.4   | 529.9   | 500.2   | 497.4   |
| 72.5° | 17822.5 | 14178.0 | 4509.7  | 1892.6  | 905.7   | 540.7   | 505.6   | 484.0   | 465.0   | 438.0   | 438.0   |
| 75°   | 12801.8 | 10430.7 | 3441.8  | 1706.0  | 838.1   | 465.0   | 427.2   | 413.7   | 386.6   | 365.0   | 370.4   |
| 77.5° | 8070.5  | 7024.1  | 2265.7  | 1254.5  | 648.9   | 373.1   | 340.7   | 332.5   | 310.9   | 281.2   | 300.1   |
| 80°   | 5450.5  | 4939.6  | 1322.1  | 789.5   | 408.3   | 273.0   | 262.2   | 259.6   | 235.2   | 202.8   | 205.5   |
| 82.5° | 3709.4  | 3639.1  | 686.7   | 448.8   | 235.2   | 159.5   | 154.1   | 159.5   | 132.5   | 108.1   | 108.1   |
| 85°   | 1449.2  | 1979.1  | 324.5   | 175.7   | 75.7    | 24.4    | 35.2    | 37.8    | 21.6    | 10.8    | 13.5    |
| 87.5° | 27.0    | 202.8   | 8.1     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 90°   | 0.0     | 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):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 | 13172.3 |
| 2.5°  | 10982.3 | 10957.9 | 10998.5 | 10825.4 | 10860.6 | 10925.5 | 10957.9 | 10976.9 | 11244.5 | 11182.3 | 11352.6 |
| 5°    | 8567.9  | 8543.5  | 8700.4  | 8722.0  | 8803.1  | 8786.9  | 8865.3  | 8884.2  | 8981.6  | 9016.7  | 9254.6  |
| 7.5°  | 6231.9  | 6337.4  | 6515.8  | 6607.7  | 6745.6  | 6788.9  | 6748.4  | 6848.4  | 6645.6  | 6791.6  | 6834.9  |
| 10°   | 5007.2  | 4880.1  | 4804.4  | 5015.3  | 5042.3  | 5242.4  | 5161.3  | 5096.4  | 5215.3  | 5220.7  | 5334.3  |
| 12.5° | 4169.0  | 3896.0  | 3714.9  | 3774.3  | 3839.2  | 3925.7  | 3939.2  | 4069.0  | 4155.5  | 4236.7  | 4304.2  |
| 15°   | 3268.7  | 3174.1  | 3009.1  | 2928.0  | 3020.0  | 3055.1  | 3139.0  | 3247.1  | 3339.0  | 3363.4  | 3455.3  |
| 17.5° | 2509.0  | 2525.3  | 2498.2  | 2449.5  | 2506.3  | 2533.3  | 2538.7  | 2541.5  | 2565.7  | 2549.5  | 2684.8  |
| 20°   | 2019.7  | 2076.4  | 2144.0  | 2154.8  | 2173.8  | 2187.2  | 2163.0  | 2071.0  | 2073.7  | 2130.5  | 2173.8  |
| 22.5° | 1827.7  | 1838.5  | 1914.2  | 1938.6  | 1998.0  | 1973.7  | 1903.4  | 1860.1  | 1854.7  | 1868.2  | 1889.8  |
| 25°   | 1676.2  | 1692.5  | 1746.6  | 1784.4  | 1830.3  | 1787.1  | 1735.8  | 1695.2  | 1689.8  | 1703.3  | 1724.9  |
| 27.5° | 1541.1  | 1565.5  | 1614.1  | 1652.0  | 1695.2  | 1654.6  | 1606.0  | 1570.9  | 1568.1  | 1565.5  | 1578.9  |
| 30°   | 1433.0  | 1460.0  | 1495.1  | 1538.4  | 1568.1  | 1533.0  | 1487.0  | 1468.1  | 1465.4  | 1460.0  | 1465.4  |
| 32.5° | 1324.8  | 1368.1  | 1403.2  | 1424.8  | 1454.6  | 1427.6  | 1392.4  | 1381.6  | 1362.7  | 1346.4  | 1338.3  |
| 35°   | 1203.2  | 1249.1  | 1303.1  | 1330.2  | 1359.9  | 1332.9  | 1308.5  | 1262.6  | 1230.2  | 1227.4  | 1232.8  |
| 37.5° | 1132.8  | 1151.8  | 1195.0  | 1241.0  | 1270.7  | 1257.2  | 1211.2  | 1165.3  | 1157.2  | 1157.2  | 1162.6  |
| 40°   | 1070.7  | 1078.7  | 1097.7  | 1157.2  | 1211.2  | 1170.7  | 1113.9  | 1100.4  | 1100.4  | 1097.7  | 1100.4  |
| 42.5° | 1008.4  | 1016.6  | 1016.6  | 1062.5  | 1149.1  | 1084.1  | 1040.9  | 1040.9  | 1040.9  | 1043.6  | 1051.7  |
| 45°   | 951.7   | 954.4   | 951.7   | 984.2   | 1065.3  | 1011.2  | 981.4   | 989.6   | 995.0   | 1000.4  | 1005.8  |
| 47.5° | 903.0   | 905.7   | 903.0   | 930.0   | 970.6   | 949.0   | 932.8   | 943.6   | 954.4   | 962.5   | 967.9   |
| 50°   | 859.7   | 857.1   | 862.5   | 878.7   | 897.6   | 903.0   | 892.2   | 908.4   | 913.8   | 924.6   | 938.2   |
| 52.5° | 821.9   | 819.2   | 824.6   | 832.7   | 859.7   | 859.7   | 859.7   | 873.3   | 884.1   | 894.9   | 913.8   |
| 55°   | 778.6   | 781.4   | 789.5   | 800.3   | 835.5   | 830.1   | 832.7   | 843.5   | 854.3   | 870.5   | 881.4   |
| 57.5° | 738.1   | 743.5   | 754.3   | 770.6   | 805.7   | 803.0   | 805.7   | 811.1   | 824.6   | 832.7   | 843.5   |
| 60°   | 692.2   | 703.0   | 716.4   | 727.3   | 762.4   | 759.7   | 773.2   | 784.1   | 792.2   | 792.2   | 797.6   |
| 62.5° | 646.2   | 662.4   | 675.9   | 684.0   | 721.8   | 724.6   | 743.5   | 751.6   | 757.0   | 751.6   | 759.7   |
| 65°   | 600.2   | 624.5   | 629.9   | 640.7   | 678.6   | 681.3   | 703.0   | 721.8   | 716.4   | 711.0   | 724.6   |
| 67.5° | 554.3   | 584.0   | 581.3   | 594.8   | 632.7   | 638.1   | 657.0   | 689.4   | 678.6   | 673.2   | 684.0   |
| 70°   | 502.8   | 524.5   | 527.2   | 535.3   | 586.7   | 578.6   | 608.3   | 638.1   | 629.9   | 632.7   | 632.7   |
| 72.5° | 446.1   | 465.0   | 465.0   | 481.2   | 535.3   | 521.8   | 546.1   | 578.6   | 578.6   | 575.9   | 575.9   |
| 75°   | 378.5   | 389.3   | 400.1   | 424.5   | 481.2   | 465.0   | 481.2   | 511.0   | 516.4   | 511.0   | 511.0   |
| 77.5° | 305.5   | 321.7   | 327.1   | 359.6   | 400.1   | 397.5   | 413.7   | 427.2   | 438.0   | 432.6   | 432.6   |
| 80°   | 216.3   | 232.6   | 254.2   | 289.3   | 313.6   | 321.7   | 329.9   | 340.7   | 346.1   | 346.1   | 351.5   |
| 82.5° | 121.7   | 146.0   | 164.9   | 200.1   | 210.9   | 251.4   | 248.8   | 256.8   | 248.8   | 219.0   | 243.4   |
| 85°   | 27.0    | 51.4    | 73.0    | 91.9    | 105.5   | 146.0   | 154.1   | 173.0   | 143.3   | 132.5   | 132.5   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 21.6    | 43.2    | 59.5    | 51.4    | 43.2    | 43.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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| 25°   | 1792.5  | 1881.8  | 2108.9  | 2676.6  | 3998.7  | 5872.3  | 9070.7  | 13488.6 | 15008.0 | 15321.7 |
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| 37.5° | 1203.2  | 1265.3  | 1392.4  | 1546.5  | 2363.0  | 4385.3  | 9973.8  | 18860.7 | 20977.7 | 21415.7 |
| 40°   | 1140.9  | 1205.8  | 1322.1  | 1460.0  | 2187.2  | 4079.8  | 9987.3  | 19898.9 | 22264.6 | 22702.6 |
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| 50°   | 992.2   | 1094.9  | 1314.0  | 1327.5  | 1838.5  | 3471.5  | 10146.8 | 22983.8 | 25644.2 | 25936.2 |
| 52.5° | 973.3   | 1097.7  | 1311.3  | 1243.7  | 1819.5  | 3498.5  | 10744.3 | 24208.6 | 26533.7 | 26555.4 |
| 55°   | 935.5   | 1094.9  | 1243.7  | 1149.1  | 1741.2  | 3544.5  | 11512.2 | 25987.5 | 27926.1 | 27942.3 |
| 57.5° | 897.6   | 1065.3  | 1154.5  | 1067.9  | 1581.7  | 3544.5  | 12436.9 | 27671.9 | 29605.1 | 29618.5 |
| 60°   | 859.7   | 1108.5  | 1013.9  | 997.6   | 1373.5  | 3479.6  | 13412.9 | 28412.7 | 30132.3 | 30270.2 |
| 62.5° | 821.9   | 1116.6  | 905.7   | 935.5   | 1222.0  | 3322.8  | 14140.1 | 27593.5 | 29418.5 | 29615.9 |
| 65°   | 778.6   | 900.3   | 835.5   | 870.5   | 1143.6  | 3060.5  | 13910.3 | 26093.0 | 28077.5 | 28312.7 |
| 67.5° | 727.3   | 762.4   | 759.7   | 803.0   | 1116.6  | 2673.9  | 12699.1 | 24195.0 | 26633.7 | 26620.2 |
| 70°   | 665.1   | 684.0   | 692.2   | 738.1   | 1065.3  | 2373.8  | 10582.1 | 21732.0 | 24706.0 | 25008.9 |
| 72.5° | 600.2   | 616.5   | 624.5   | 665.1   | 1013.9  | 2203.5  | 8213.7  | 18338.9 | 21399.5 | 21872.6 |
| 75°   | 529.9   | 540.7   | 551.5   | 586.7   | 959.8   | 1952.0  | 5850.7  | 13999.6 | 16389.6 | 17133.1 |
| 77.5° | 456.9   | 456.9   | 470.4   | 505.6   | 808.4   | 1611.4  | 3925.7  | 9819.7  | 11104.0 | 11863.6 |
| 80°   | 370.4   | 373.1   | 367.7   | 405.5   | 594.8   | 1103.1  | 2230.5  | 6559.1  | 7389.1  | 7535.1  |
| 82.5° | 283.9   | 275.8   | 278.5   | 297.4   | 443.4   | 751.6   | 1189.6  | 4074.4  | 4152.8  | 4071.7  |
| 85°   | 178.4   | 178.4   | 173.0   | 194.7   | 283.9   | 392.0   | 648.9   | 2495.5  | 1949.4  | 1854.7  |
| 87.5° | 73.0    | 59.5    | 67.6    | 78.4    | 135.1   | 159.5   | 254.2   | 513.7   | 197.4   | 181.1   |
| 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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