

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: P533930

Luminaire Tested: **GALN-SA9B-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28242 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

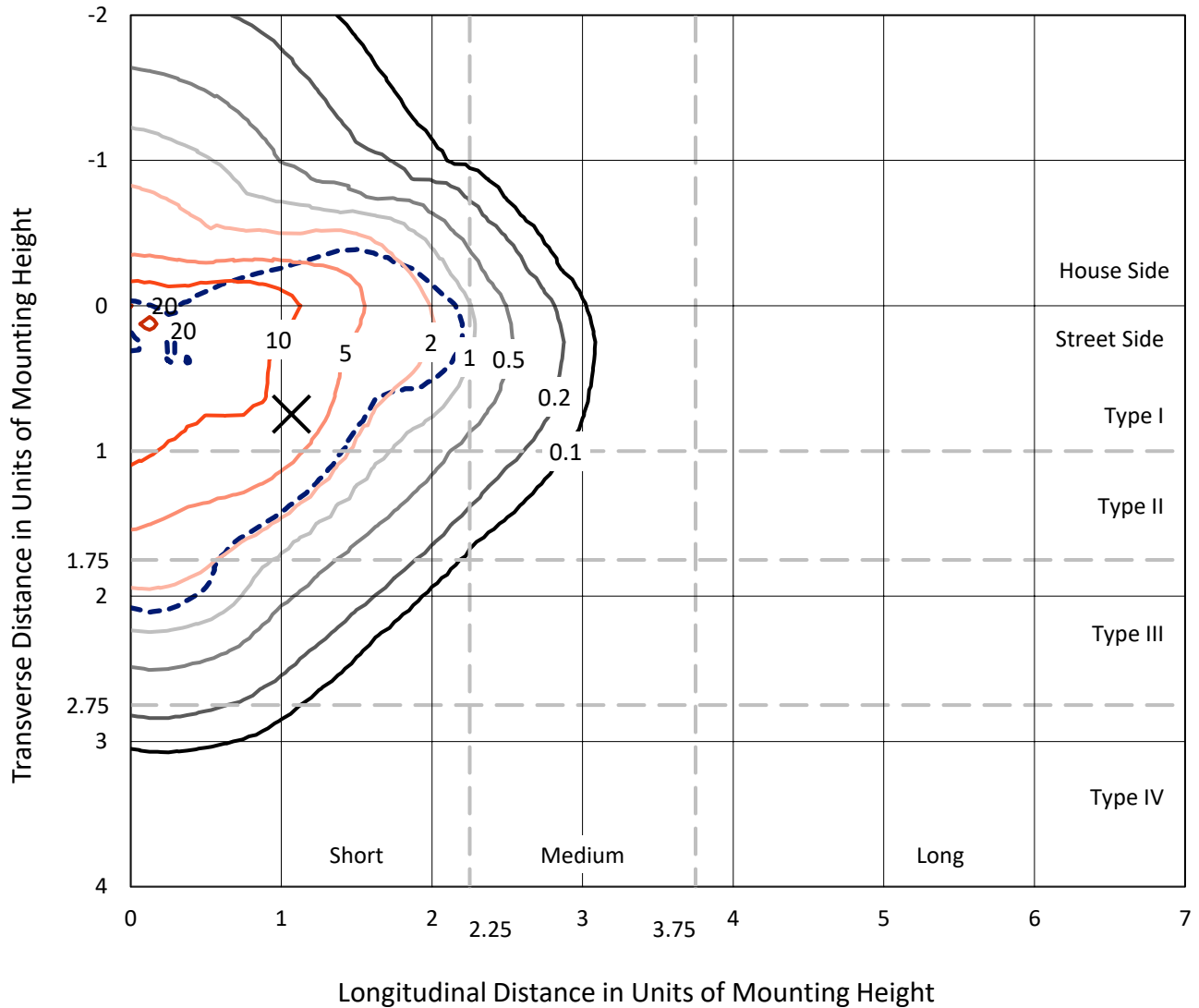
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

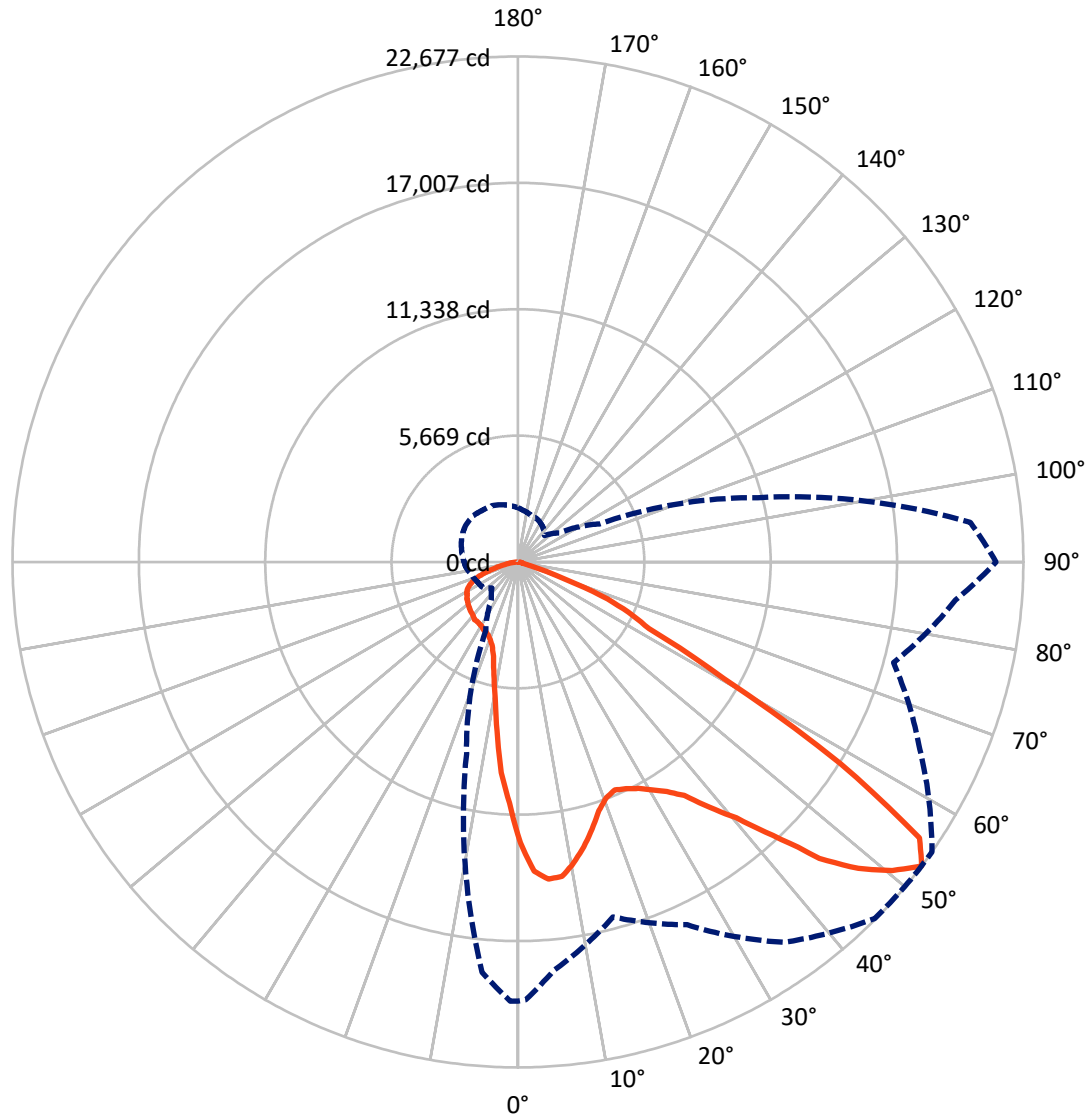
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8615.3 | 0.0 | 8615.3 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 19626.7 | 0.0 | 19626.7 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 28242.0 | 0.0 | 28242.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 962.5 | 3.4 |
| 10°-20° | 2075.2 | 7.3 |
| 20°-30° | 3146.7 | 11.1 |
| 30°-40° | 4546.5 | 16.1 |
| 40°-50° | 6075.4 | 21.5 |
| 50°-60° | 6781.5 | 24.0 |
| 60°-70° | 3719.9 | 13.2 |
| 70°-80° | 804.2 | 2.8 |
| 80°-90° | 130.1 | 0.5 |
| 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° | 28242.0 | 100.0 |
| 0°-180° | 28242.0 | 100.0 |

Coefficient of Utilization



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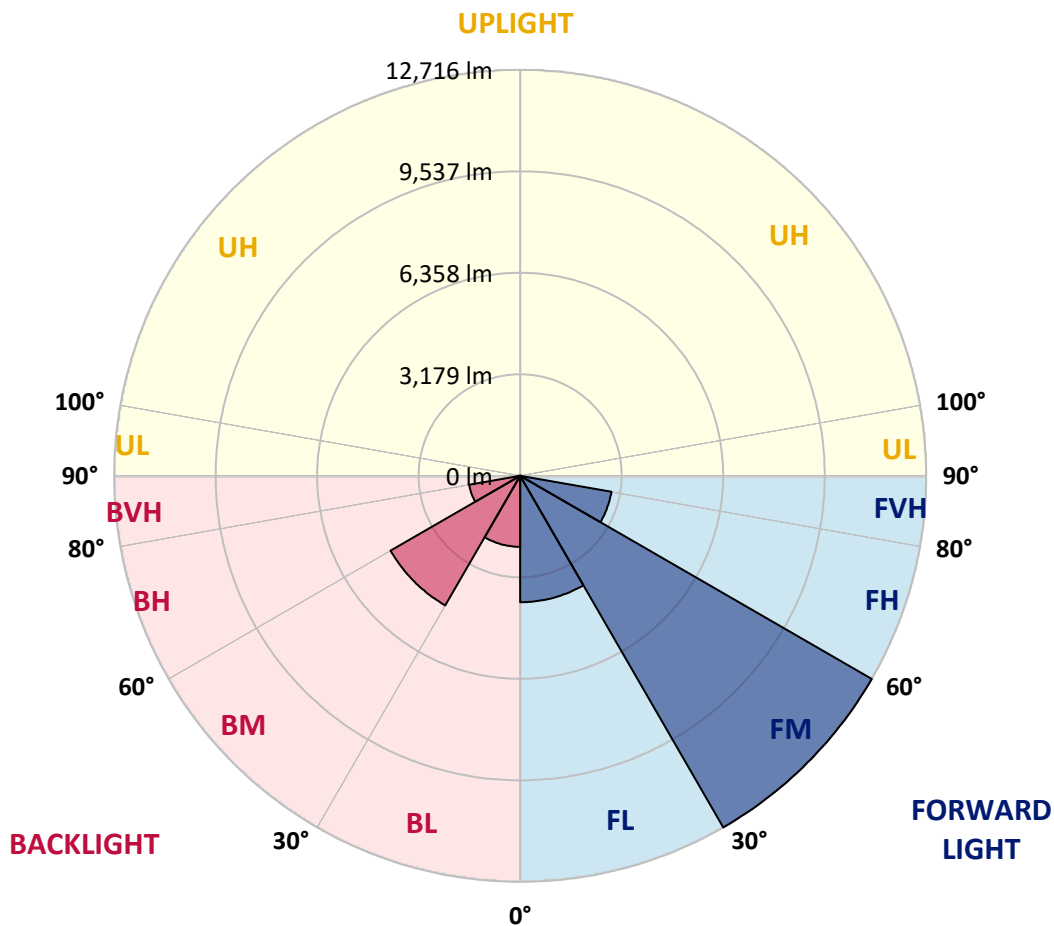
CATALOG NUMBER: GALN-SA9B-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3960.0 | 14.0 | | | |
| FM (30°-60°) | 12715.9 | 45.0 | | | |
| FH (60°-80°) | 2902.6 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 48.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2224.4 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 4687.4 | 16.6 | B3/5000 | | |
| BH (60°-80°) | 1621.6 | 5.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 81.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CATALOG NUMBER: GALN-SA9B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 |
| 2.5° | 13220.8 | 13146.6 | 13212.6 | 13526.0 | 13707.4 | 13831.1 | 13909.5 | 13897.1 | 13600.2 | 13311.5 | 13311.5 |
| 5° | 12833.2 | 12738.3 | 12874.4 | 13583.7 | 14297.1 | 14359.0 | 14462.1 | 14293.0 | 13855.9 | 13328.0 | 12668.2 |
| 7.5° | 11711.5 | 11781.6 | 12008.4 | 12940.4 | 13868.2 | 14334.2 | 14457.9 | 14243.5 | 13534.2 | 12548.6 | 11579.5 |
| 10° | 10742.4 | 10907.4 | 11431.1 | 12437.3 | 13290.9 | 13897.1 | 14033.2 | 13732.2 | 13171.3 | 11963.1 | 11097.1 |
| 12.5° | 10408.4 | 10305.3 | 10886.8 | 11893.0 | 12709.5 | 13035.2 | 13097.1 | 13117.7 | 12738.3 | 11666.1 | 10610.5 |
| 15° | 10367.2 | 10433.1 | 10886.8 | 11649.6 | 12152.7 | 12169.2 | 12272.3 | 12433.2 | 12482.7 | 11868.2 | 10837.3 |
| 17.5° | 10961.0 | 10882.6 | 11348.6 | 11954.8 | 11715.6 | 11476.5 | 11501.2 | 11732.1 | 12140.4 | 12041.4 | 11550.7 |
| 20° | 11839.3 | 12016.7 | 12383.7 | 12321.8 | 11678.5 | 11072.3 | 11076.4 | 11295.0 | 12099.1 | 12758.9 | 12544.5 |
| 22.5° | 13299.2 | 13472.4 | 13744.5 | 12998.1 | 11678.5 | 10952.7 | 10812.5 | 11109.4 | 12363.1 | 13612.6 | 13666.2 |
| 25° | 14631.1 | 14948.7 | 15022.9 | 14144.5 | 12264.1 | 11064.1 | 10973.4 | 11266.1 | 12627.0 | 14445.6 | 14952.8 |
| 27.5° | 15843.5 | 15959.0 | 16284.8 | 14882.7 | 12589.9 | 11138.3 | 11130.1 | 11505.3 | 12961.0 | 14862.1 | 16103.3 |
| 30° | 16800.2 | 16787.9 | 16973.4 | 15348.7 | 13109.5 | 11554.8 | 11154.8 | 11864.1 | 13398.1 | 15550.7 | 17167.3 |
| 32.5° | 17451.8 | 17592.0 | 17983.8 | 15996.1 | 13328.0 | 11950.7 | 11637.3 | 12284.7 | 13930.1 | 15876.5 | 17917.8 |
| 35° | 18598.2 | 18841.5 | 18346.7 | 16354.9 | 14020.8 | 12342.4 | 11975.4 | 12857.9 | 14194.0 | 16231.2 | 18837.4 |
| 37.5° | 19678.6 | 19493.1 | 18990.0 | 16548.7 | 14470.3 | 13068.2 | 12726.0 | 13967.2 | 15014.6 | 17002.3 | 19447.7 |
| 40° | 20371.4 | 20367.3 | 19472.4 | 16705.4 | 14787.8 | 14177.5 | 14156.9 | 15093.0 | 16020.8 | 17488.9 | 20132.2 |
| 42.5° | 20672.5 | 20961.1 | 19670.4 | 16688.9 | 15455.9 | 15521.9 | 15938.4 | 16775.5 | 16734.3 | 17587.9 | 20115.7 |
| 44° | 21084.8 | 21258.0 | 20012.7 | 16726.0 | 15901.3 | 16429.1 | 17410.6 | 17942.5 | 17356.9 | 17534.3 | 20095.1 |
| 45° | 21068.3 | 21080.7 | 19526.0 | 16775.5 | 16280.6 | 17187.9 | 18066.2 | 18965.2 | 17905.4 | 17418.8 | 20367.3 |
| 47.5° | 20585.9 | 20445.7 | 19113.7 | 16408.5 | 17464.2 | 19192.0 | 20004.4 | 20548.7 | 18581.7 | 17171.4 | 20029.1 |
| 50° | 19633.3 | 19472.4 | 18111.6 | 16251.8 | 17711.6 | 20437.4 | 21559.1 | 21757.0 | 19196.1 | 16928.1 | 19695.1 |
| 52.5° | 19699.2 | 19653.9 | 18396.1 | 16486.8 | 17959.0 | 20829.2 | 22627.1 | 22676.6 | 19893.1 | 17439.4 | 19699.2 |
| 55° | 20878.6 | 20721.9 | 19212.6 | 16779.6 | 17777.6 | 20371.4 | 21946.7 | 21860.1 | 19658.0 | 17130.1 | 20062.1 |
| 57.5° | 19105.4 | 19208.5 | 18082.7 | 15620.8 | 15559.0 | 16561.1 | 17253.9 | 17039.4 | 16404.4 | 15460.0 | 18664.2 |
| 60° | 15414.7 | 15707.4 | 15814.7 | 13064.1 | 11740.4 | 11224.9 | 11018.7 | 10639.3 | 10746.5 | 12701.2 | 16396.1 |
| 62.5° | 13220.8 | 13204.3 | 13876.5 | 11843.5 | 7690.8 | 6614.5 | 6515.6 | 6602.2 | 7839.3 | 12503.3 | 16058.0 |
| 65° | 10482.6 | 10763.0 | 10969.2 | 10037.3 | 6086.7 | 4911.4 | 4907.3 | 5455.7 | 6783.6 | 10449.6 | 12965.1 |
| 67.5° | 6655.8 | 7022.8 | 7278.5 | 6420.7 | 4070.2 | 3497.0 | 3402.1 | 4061.9 | 4701.1 | 6853.7 | 7806.3 |
| 70° | 3752.6 | 3925.8 | 4041.3 | 3703.1 | 2589.7 | 1814.5 | 1707.2 | 1863.9 | 2841.3 | 4437.2 | 4626.9 |
| 72.5° | 1447.4 | 1525.8 | 1682.5 | 1694.9 | 977.3 | 585.6 | 474.2 | 569.1 | 1195.9 | 1756.7 | 1674.3 |
| 75° | 222.7 | 239.2 | 338.1 | 404.1 | 280.4 | 214.4 | 226.8 | 235.1 | 334.0 | 453.6 | 379.4 |
| 77.5° | 107.2 | 107.2 | 103.1 | 119.6 | 140.2 | 152.6 | 165.0 | 181.4 | 197.9 | 218.6 | 210.3 |
| 80° | 70.1 | 70.1 | 70.1 | 82.5 | 103.1 | 123.7 | 140.2 | 148.5 | 156.7 | 173.2 | 165.0 |
| 82.5° | 45.4 | 45.4 | 45.4 | 61.9 | 82.5 | 103.1 | 111.3 | 132.0 | 148.5 | 173.2 | 160.8 |
| 85° | 24.7 | 24.7 | 24.7 | 41.2 | 61.9 | 86.6 | 82.5 | 66.0 | 37.1 | 4.1 | 8.2 |
| 87.5° | 8.2 | 8.2 | 8.2 | 8.2 | 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 |
| 2.5° | 12965.1 | 12775.4 | 12758.9 | 12371.3 | 12024.9 | 11855.8 | 11719.8 | 11340.4 | 11422.8 | 11204.3 | 11200.2 |
| 5° | 12338.3 | 11950.7 | 11323.9 | 10808.4 | 10292.9 | 10189.8 | 9740.3 | 9348.6 | 9361.0 | 9080.5 | 9130.0 |
| 7.5° | 11212.5 | 10944.5 | 10181.6 | 9373.3 | 8688.8 | 8202.2 | 7777.4 | 7521.8 | 7196.0 | 7084.6 | 7026.9 |
| 10° | 10499.1 | 10169.2 | 9311.5 | 8297.0 | 7530.0 | 7270.2 | 6862.0 | 6635.1 | 6301.1 | 6136.2 | 6020.7 |
| 12.5° | 10185.7 | 9703.2 | 8631.1 | 7600.1 | 7088.8 | 6820.7 | 6474.3 | 6061.9 | 5666.1 | 5513.5 | 5303.2 |
| 15° | 10218.7 | 9641.4 | 8433.1 | 7319.7 | 6705.2 | 6185.7 | 5876.4 | 5418.6 | 5014.5 | 4746.5 | 4593.9 |
| 17.5° | 10717.7 | 10016.6 | 8523.8 | 7105.3 | 6222.8 | 5571.2 | 4965.0 | 4470.2 | 4148.5 | 3946.4 | 3897.0 |
| 20° | 11897.1 | 10944.5 | 8676.4 | 6758.9 | 5740.3 | 4927.9 | 4181.5 | 3666.0 | 3418.6 | 3414.5 | 3418.6 |
| 22.5° | 12878.5 | 11934.2 | 8985.7 | 6552.7 | 5257.8 | 4103.2 | 3360.9 | 3195.9 | 3146.4 | 3249.5 | 3261.9 |
| 25° | 14202.3 | 13047.6 | 9517.7 | 6445.5 | 4812.4 | 3497.0 | 3039.2 | 2977.4 | 2973.2 | 3105.2 | 3109.3 |
| 27.5° | 15559.0 | 14020.8 | 9835.2 | 6132.0 | 4358.8 | 3183.6 | 2845.4 | 2833.0 | 2899.0 | 3039.2 | 3026.8 |
| 30° | 16482.7 | 14837.3 | 10408.4 | 5756.8 | 3822.7 | 2907.3 | 2767.0 | 2783.5 | 2874.3 | 2981.5 | 2998.0 |
| 32.5° | 17559.0 | 15641.5 | 10556.9 | 5550.6 | 3492.8 | 2676.3 | 2577.4 | 2614.5 | 2729.9 | 2899.0 | 2989.7 |
| 35° | 18792.0 | 16210.5 | 10783.7 | 5270.2 | 3369.1 | 2499.0 | 2449.5 | 2490.8 | 2631.0 | 2742.3 | 2841.3 |
| 37.5° | 19703.4 | 17216.7 | 10824.9 | 5051.6 | 3233.0 | 2400.0 | 2321.7 | 2457.8 | 2540.2 | 2696.9 | 2746.4 |
| 40° | 20379.7 | 17946.6 | 10932.1 | 4915.5 | 3125.8 | 2272.2 | 2272.2 | 2362.9 | 2474.3 | 2618.6 | 2717.6 |
| 42.5° | 20812.7 | 18478.6 | 11010.5 | 4791.8 | 2919.6 | 2235.1 | 2214.5 | 2305.2 | 2453.6 | 2593.9 | 2639.2 |
| 44° | 21076.6 | 18705.4 | 10932.1 | 4676.4 | 2861.9 | 2189.7 | 2189.7 | 2268.1 | 2383.5 | 2548.5 | 2602.1 |
| 45° | 21142.6 | 18990.0 | 10758.9 | 4672.2 | 2791.8 | 2136.1 | 2127.9 | 2276.3 | 2354.7 | 2556.7 | 2589.7 |
| 47.5° | 21398.2 | 19340.5 | 10779.5 | 4540.3 | 2622.7 | 2008.3 | 2152.6 | 2218.6 | 2288.7 | 2466.0 | 2577.4 |
| 50° | 21390.0 | 19559.0 | 10734.2 | 4346.5 | 2499.0 | 1863.9 | 2103.1 | 2177.4 | 2247.5 | 2428.9 | 2474.3 |
| 52.5° | 21447.7 | 20375.5 | 11150.7 | 4037.2 | 2276.3 | 1678.4 | 1938.2 | 2103.1 | 2189.7 | 2342.3 | 2437.1 |
| 55° | 21418.9 | 20841.5 | 11563.1 | 3806.2 | 1962.9 | 1567.0 | 1798.0 | 1991.8 | 2115.5 | 2276.3 | 2321.7 |
| 57.5° | 19563.2 | 18420.9 | 10701.2 | 3373.2 | 1624.8 | 1435.1 | 1600.0 | 1876.3 | 2033.0 | 2198.0 | 2255.7 |
| 60° | 15983.7 | 14198.1 | 8824.9 | 2482.5 | 1336.1 | 1319.6 | 1488.7 | 1839.2 | 1905.2 | 2049.5 | 2148.5 |
| 62.5° | 14771.3 | 12453.8 | 6998.0 | 1896.9 | 1142.3 | 1208.3 | 1373.2 | 1661.9 | 1765.0 | 1942.3 | 2033.0 |
| 65° | 11558.9 | 8272.3 | 4334.1 | 1282.5 | 1006.2 | 1084.6 | 1241.3 | 1455.7 | 1624.8 | 1789.7 | 1896.9 |
| 67.5° | 6845.5 | 4519.7 | 2144.4 | 899.0 | 878.4 | 960.8 | 1121.7 | 1282.5 | 1476.3 | 1657.8 | 1711.4 |
| 70° | 3727.9 | 2222.7 | 915.5 | 684.5 | 746.4 | 820.6 | 977.3 | 1088.7 | 1274.2 | 1414.5 | 1505.2 |
| 72.5° | 1195.9 | 676.3 | 457.7 | 507.2 | 569.1 | 655.7 | 750.5 | 886.6 | 1018.6 | 1101.0 | 1175.3 |
| 75° | 288.7 | 284.5 | 325.8 | 354.6 | 412.4 | 478.4 | 556.7 | 626.8 | 729.9 | 808.3 | 874.2 |
| 77.5° | 202.1 | 218.6 | 251.5 | 292.8 | 313.4 | 338.1 | 387.6 | 441.2 | 486.6 | 544.3 | 585.6 |
| 80° | 156.7 | 169.1 | 193.8 | 214.4 | 235.1 | 255.7 | 280.4 | 301.0 | 329.9 | 367.0 | 387.6 |
| 82.5° | 148.5 | 156.7 | 181.4 | 193.8 | 185.6 | 181.4 | 197.9 | 206.2 | 210.3 | 222.7 | 235.1 |
| 85° | 12.4 | 0.0 | 8.2 | 28.9 | 70.1 | 103.1 | 111.3 | 111.3 | 107.2 | 115.5 | 115.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.1 | 16.5 | 12.4 |
| 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° | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 |
| 2.5° | 11150.7 | 11010.5 | 11064.1 | 11130.1 | 11035.2 | 10816.6 | 10874.4 | 10849.6 | 11072.3 | 11055.8 | 11278.5 |
| 5° | 9348.6 | 9130.0 | 9154.8 | 9476.4 | 9373.3 | 9484.7 | 9262.0 | 9233.1 | 9274.4 | 9295.0 | 9332.1 |
| 7.5° | 7154.7 | 7125.9 | 7373.3 | 7645.5 | 7773.3 | 7641.3 | 7422.8 | 7373.3 | 7327.9 | 7237.2 | 7443.4 |
| 10° | 5839.3 | 5847.5 | 5831.0 | 6037.2 | 6181.5 | 6152.7 | 6020.7 | 6004.2 | 5917.6 | 5884.6 | 6000.1 |
| 12.5° | 5212.4 | 5101.1 | 5047.5 | 4981.5 | 5092.9 | 5167.1 | 5109.4 | 5068.1 | 5072.2 | 5113.5 | 5130.0 |
| 15° | 4606.3 | 4536.1 | 4420.7 | 4346.5 | 4400.1 | 4362.9 | 4342.3 | 4424.8 | 4404.2 | 4395.9 | 4494.9 |
| 17.5° | 3925.8 | 3983.6 | 3975.3 | 3892.8 | 3962.9 | 3934.1 | 3930.0 | 3872.2 | 3793.9 | 3736.1 | 3769.1 |
| 20° | 3476.3 | 3583.6 | 3666.0 | 3670.2 | 3707.3 | 3703.1 | 3641.3 | 3464.0 | 3406.2 | 3393.9 | 3402.1 |
| 22.5° | 3315.5 | 3373.2 | 3472.2 | 3612.4 | 3612.4 | 3546.4 | 3472.2 | 3266.0 | 3212.4 | 3154.7 | 3129.9 |
| 25° | 3187.7 | 3299.0 | 3426.9 | 3443.3 | 3509.3 | 3447.5 | 3327.9 | 3224.8 | 3113.4 | 3035.1 | 3035.1 |
| 27.5° | 3121.7 | 3245.4 | 3340.3 | 3369.1 | 3459.8 | 3410.4 | 3286.6 | 3154.7 | 3022.7 | 3018.6 | 2948.5 |
| 30° | 3092.8 | 3208.3 | 3270.1 | 3340.3 | 3381.5 | 3303.1 | 3266.0 | 3125.8 | 2993.9 | 2960.9 | 2845.4 |
| 32.5° | 3006.2 | 3171.2 | 3286.6 | 3270.1 | 3303.1 | 3270.1 | 3216.5 | 3101.1 | 2952.6 | 2878.4 | 2866.0 |
| 35° | 2907.3 | 3072.2 | 3195.9 | 3282.5 | 3303.1 | 3233.0 | 3200.0 | 3043.3 | 2841.3 | 2804.2 | 2676.3 |
| 37.5° | 2853.6 | 2952.6 | 3105.2 | 3245.4 | 3274.3 | 3237.2 | 3125.8 | 2965.0 | 2762.9 | 2721.7 | 2610.3 |
| 40° | 2787.7 | 2915.5 | 3035.1 | 3150.6 | 3237.2 | 3146.4 | 3018.6 | 2861.9 | 2771.2 | 2647.5 | 2614.5 |
| 42.5° | 2738.2 | 2882.5 | 2981.5 | 3109.3 | 3208.3 | 3088.7 | 2940.2 | 2833.0 | 2705.2 | 2622.7 | 2527.9 |
| 44° | 2721.7 | 2853.6 | 2919.6 | 3076.3 | 3158.8 | 3068.1 | 2944.4 | 2833.0 | 2684.6 | 2610.3 | 2527.9 |
| 45° | 2664.0 | 2845.4 | 2915.5 | 3055.7 | 3125.8 | 3051.6 | 2894.9 | 2783.5 | 2676.3 | 2585.6 | 2499.0 |
| 47.5° | 2606.2 | 2729.9 | 2849.5 | 2960.9 | 3010.4 | 2985.6 | 2853.6 | 2717.6 | 2589.7 | 2536.1 | 2453.6 |
| 50° | 2589.7 | 2713.4 | 2824.8 | 2927.9 | 2985.6 | 2936.1 | 2816.5 | 2684.6 | 2536.1 | 2449.5 | 2379.4 |
| 52.5° | 2507.3 | 2659.8 | 2783.5 | 2816.5 | 2890.8 | 2861.9 | 2771.2 | 2626.8 | 2486.6 | 2412.4 | 2354.7 |
| 55° | 2387.7 | 2548.5 | 2717.6 | 2758.8 | 2866.0 | 2820.7 | 2684.6 | 2548.5 | 2428.9 | 2317.6 | 2243.3 |
| 57.5° | 2342.3 | 2499.0 | 2664.0 | 2717.6 | 2783.5 | 2709.3 | 2676.3 | 2532.0 | 2342.3 | 2284.6 | 2169.1 |
| 60° | 2226.8 | 2424.8 | 2560.9 | 2684.6 | 2688.7 | 2668.1 | 2610.3 | 2445.4 | 2288.7 | 2181.5 | 2099.0 |
| 62.5° | 2136.1 | 2321.7 | 2428.9 | 2544.4 | 2614.5 | 2556.7 | 2499.0 | 2346.4 | 2177.4 | 2057.8 | 1962.9 |
| 65° | 2004.2 | 2173.2 | 2263.9 | 2334.1 | 2412.4 | 2404.2 | 2305.2 | 2193.8 | 2016.5 | 1921.7 | 1831.0 |
| 67.5° | 1802.1 | 1950.5 | 2074.3 | 2140.2 | 2189.7 | 2177.4 | 2103.1 | 2024.8 | 1843.3 | 1748.5 | 1682.5 |
| 70° | 1558.8 | 1711.4 | 1789.7 | 1826.8 | 1876.3 | 1901.1 | 1843.3 | 1806.2 | 1645.4 | 1521.7 | 1459.8 |
| 72.5° | 1253.6 | 1352.6 | 1468.1 | 1501.1 | 1521.7 | 1538.2 | 1538.2 | 1505.2 | 1340.2 | 1290.7 | 1183.5 |
| 75° | 923.7 | 1002.1 | 1088.7 | 1088.7 | 1125.8 | 1129.9 | 1138.2 | 1117.5 | 993.8 | 927.8 | 903.1 |
| 77.5° | 626.8 | 684.5 | 754.6 | 783.5 | 808.3 | 804.1 | 800.0 | 742.3 | 676.3 | 647.4 | 622.7 |
| 80° | 408.3 | 466.0 | 499.0 | 536.1 | 560.8 | 556.7 | 565.0 | 523.7 | 494.9 | 445.4 | 453.6 |
| 82.5° | 243.3 | 288.7 | 321.7 | 367.0 | 367.0 | 379.4 | 379.4 | 367.0 | 338.1 | 313.4 | 313.4 |
| 85° | 115.5 | 152.6 | 173.2 | 202.1 | 218.6 | 222.7 | 197.9 | 169.1 | 140.2 | 127.8 | 140.2 |
| 87.5° | 20.6 | 28.9 | 41.2 | 37.1 | 45.4 | 41.2 | 41.2 | 41.2 | 41.2 | 33.0 | 37.1 |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 | 12598.1 |
| 2.5° | 11196.0 | 11402.2 | 11546.6 | 11785.7 | 12198.1 | 12528.0 | 12866.2 | 13117.7 | 13146.6 | 13220.8 |
| 5° | 9468.2 | 9579.5 | 9946.5 | 10424.9 | 10763.0 | 11319.7 | 11678.5 | 12330.1 | 12573.4 | 12833.2 |
| 7.5° | 7393.9 | 7575.4 | 8066.1 | 8387.7 | 9130.0 | 9826.9 | 10548.6 | 11352.7 | 11674.4 | 11711.5 |
| 10° | 6235.1 | 6499.1 | 6833.1 | 7348.6 | 7752.7 | 8528.0 | 9426.9 | 10321.8 | 10680.6 | 10742.4 |
| 12.5° | 5476.4 | 5814.5 | 6259.9 | 6631.0 | 7018.7 | 7695.0 | 8556.8 | 9662.0 | 10128.0 | 10408.4 |
| 15° | 4746.5 | 5097.0 | 5587.7 | 6103.2 | 6445.5 | 7253.7 | 8268.2 | 9513.5 | 10119.7 | 10367.2 |
| 17.5° | 3995.9 | 4321.7 | 4725.8 | 5282.5 | 5971.2 | 6878.4 | 8222.8 | 10008.4 | 10672.3 | 10961.0 |
| 20° | 3352.6 | 3534.1 | 4004.2 | 4577.4 | 5439.3 | 6494.9 | 8239.3 | 10738.3 | 11711.5 | 11839.3 |
| 22.5° | 3101.1 | 3142.3 | 3327.9 | 3855.7 | 4800.1 | 6103.2 | 8532.1 | 11773.4 | 12878.5 | 13299.2 |
| 25° | 2907.3 | 2899.0 | 2948.5 | 3303.1 | 4334.1 | 5950.6 | 8820.7 | 12726.0 | 14173.4 | 14631.1 |
| 27.5° | 2800.0 | 2717.6 | 2721.7 | 3055.7 | 4004.2 | 5703.2 | 9191.9 | 13818.8 | 15641.5 | 15843.5 |
| 30° | 2746.4 | 2729.9 | 2680.5 | 2816.5 | 3645.4 | 5332.0 | 9253.7 | 14895.1 | 16507.5 | 16800.2 |
| 32.5° | 2713.4 | 2552.6 | 2490.8 | 2540.2 | 3307.3 | 4927.9 | 9484.7 | 15604.3 | 17579.6 | 17451.8 |
| 35° | 2548.5 | 2404.2 | 2362.9 | 2412.4 | 3068.1 | 4701.1 | 9332.1 | 16222.9 | 18383.8 | 18598.2 |
| 37.5° | 2486.6 | 2358.8 | 2276.3 | 2235.1 | 2845.4 | 4511.4 | 9253.7 | 17175.5 | 19163.2 | 19678.6 |
| 40° | 2428.9 | 2292.8 | 2193.8 | 2152.6 | 2672.2 | 4259.9 | 9229.0 | 17909.5 | 20062.1 | 20371.4 |
| 42.5° | 2362.9 | 2276.3 | 2165.0 | 2090.8 | 2461.9 | 4008.3 | 8944.5 | 18136.3 | 20338.4 | 20672.5 |
| 44° | 2342.3 | 2210.3 | 2094.9 | 2070.1 | 2379.4 | 3880.5 | 8886.7 | 18342.5 | 20577.6 | 21084.8 |
| 45° | 2321.7 | 2198.0 | 2066.0 | 2033.0 | 2350.5 | 3810.4 | 8808.4 | 18392.0 | 20973.5 | 21068.3 |
| 47.5° | 2263.9 | 2185.6 | 2057.8 | 1967.0 | 2288.7 | 3657.8 | 8573.3 | 18111.6 | 20569.4 | 20585.9 |
| 50° | 2218.6 | 2127.9 | 1995.9 | 1818.6 | 2206.2 | 3529.9 | 8680.5 | 18008.5 | 19596.2 | 19633.3 |
| 52.5° | 2169.1 | 2033.0 | 1958.8 | 1653.6 | 2070.1 | 3422.7 | 8907.3 | 18474.5 | 19707.5 | 19699.2 |
| 55° | 2111.4 | 1962.9 | 1781.5 | 1513.4 | 1843.3 | 3286.6 | 9455.8 | 19394.1 | 20738.4 | 20878.6 |
| 57.5° | 2020.6 | 1892.8 | 1633.0 | 1389.7 | 1583.5 | 3026.8 | 9278.5 | 17633.2 | 19080.7 | 19105.4 |
| 60° | 1901.1 | 1781.5 | 1480.4 | 1294.9 | 1299.0 | 2387.7 | 8297.0 | 13740.4 | 15055.9 | 15414.7 |
| 62.5° | 1785.6 | 1719.6 | 1352.6 | 1158.8 | 1105.2 | 1901.1 | 7014.5 | 11418.7 | 12923.9 | 13220.8 |
| 65° | 1649.5 | 1488.7 | 1241.3 | 1055.7 | 948.5 | 1332.0 | 4969.1 | 8532.1 | 10082.6 | 10482.6 |
| 67.5° | 1476.3 | 1303.1 | 1092.8 | 927.8 | 812.4 | 890.7 | 2565.0 | 4849.6 | 6420.7 | 6655.8 |
| 70° | 1290.7 | 1129.9 | 919.6 | 783.5 | 655.7 | 614.4 | 1129.9 | 2313.4 | 3509.3 | 3752.6 |
| 72.5° | 1059.8 | 911.4 | 734.0 | 618.6 | 490.7 | 424.7 | 379.4 | 618.6 | 1245.4 | 1447.4 |
| 75° | 767.0 | 663.9 | 552.6 | 441.2 | 346.4 | 272.2 | 222.7 | 185.6 | 206.2 | 222.7 |
| 77.5° | 565.0 | 482.5 | 408.3 | 313.4 | 243.3 | 193.8 | 152.6 | 115.5 | 111.3 | 107.2 |
| 80° | 441.2 | 391.8 | 325.8 | 251.5 | 189.7 | 144.3 | 107.2 | 78.4 | 70.1 | 70.1 |
| 82.5° | 346.4 | 321.7 | 268.0 | 206.2 | 156.7 | 115.5 | 78.4 | 53.6 | 45.4 | 45.4 |
| 85° | 132.0 | 132.0 | 193.8 | 169.1 | 119.6 | 82.5 | 53.6 | 28.9 | 24.7 | 24.7 |
| 87.5° | 33.0 | 33.0 | 33.0 | 33.0 | 28.9 | 24.7 | 24.7 | 12.4 | 8.2 | 8.2 |
| 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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