

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: P647098

Luminaire Tested: **GALN-SA8C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40111.5 lumens
Efficiency: N/A
Efficacy: 93.5 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

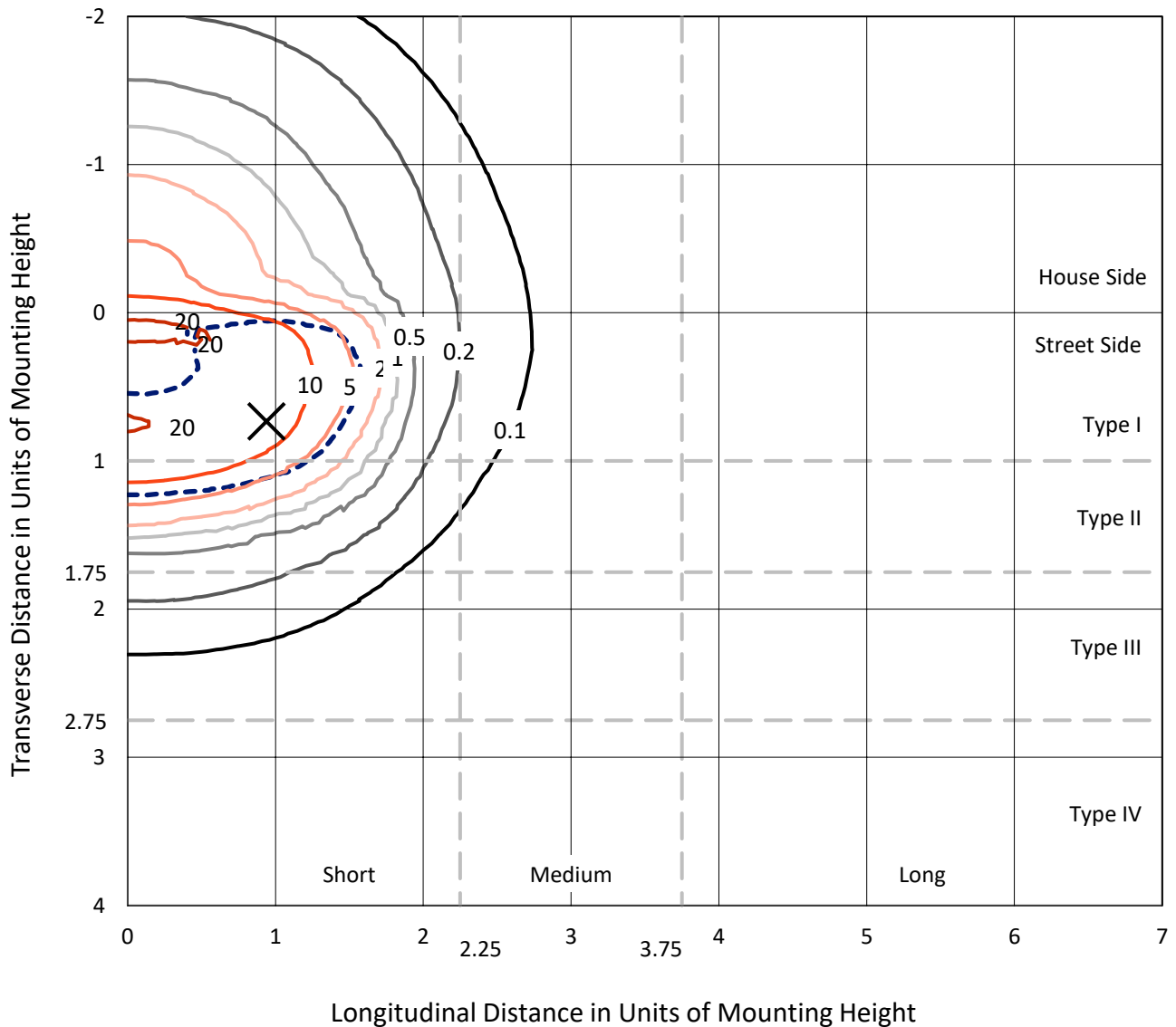
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

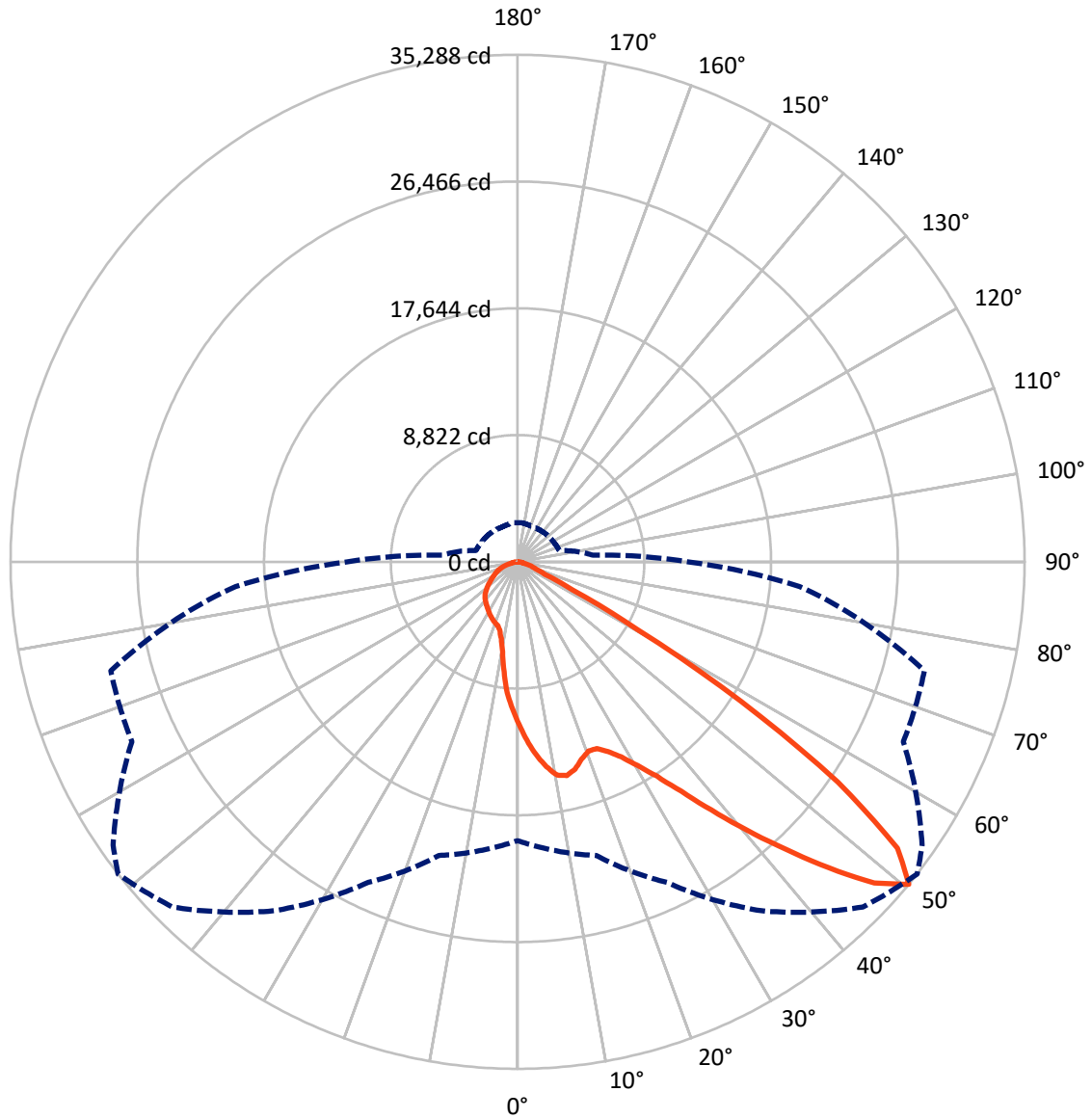
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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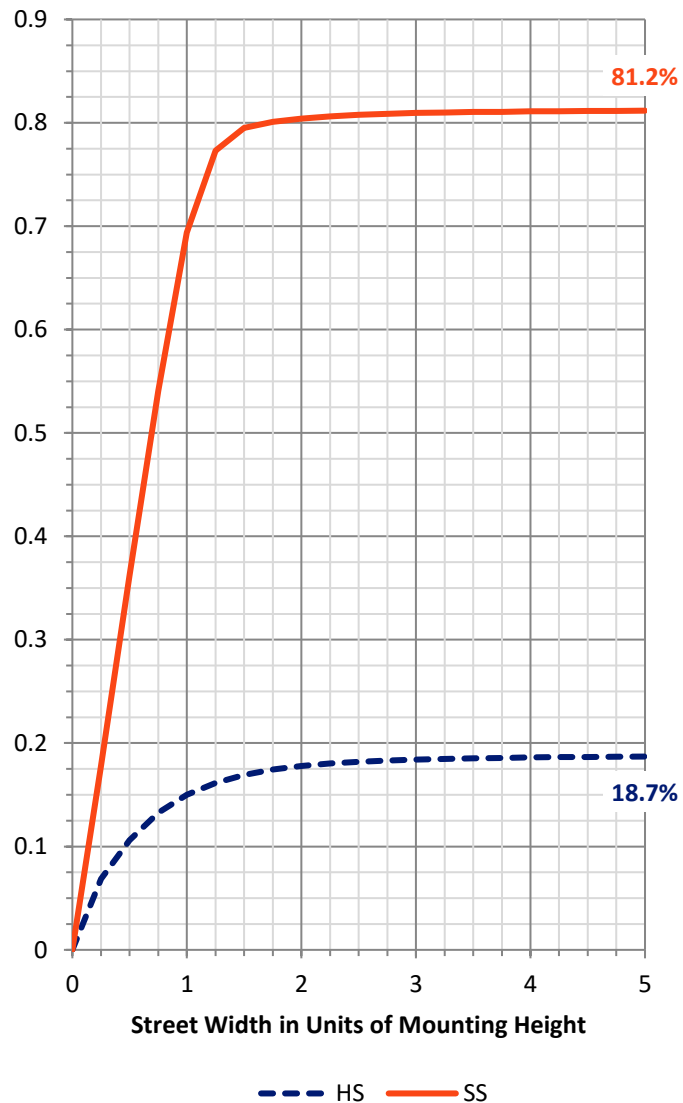
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7540.0 | 0.0 | 7540.0 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 32571.5 | 0.0 | 32571.5 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 40111.5 | 0.0 | 40111.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1042.1 | 2.6 |
| 10°-20° | 2793.2 | 7.0 |
| 20°-30° | 4705.0 | 11.7 |
| 30°-40° | 7895.4 | 19.7 |
| 40°-50° | 12078.1 | 30.1 |
| 50°-60° | 8805.9 | 22.0 |
| 60°-70° | 1959.8 | 4.9 |
| 70°-80° | 706.9 | 1.8 |
| 80°-90° | 125.1 | 0.3 |
| 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° | 40111.5 | 100.0 |
| 0°-180° | 40111.5 | 100.0 |

Coefficient of Utilization



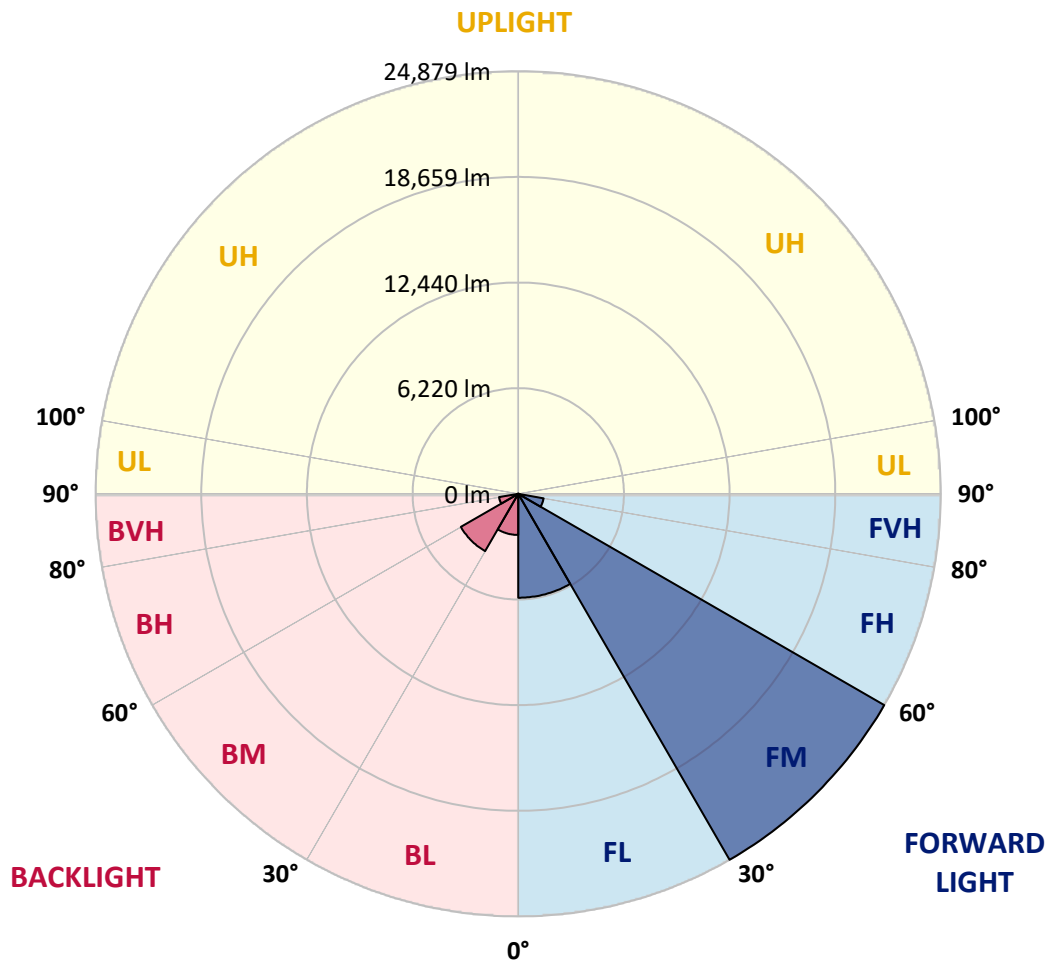
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6118.4 | 15.3 | | | |
| FM (30°-60°) | 24879.2 | 62.0 | | | |
| FH (60°-80°) | 1517.9 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 56.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2422.0 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3900.2 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 1148.7 | 2.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 69.0 | 0.2 | | | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 |
| 2.5° | 13312.9 | 13056.7 | 13085.7 | 12902.0 | 12703.8 | 12645.8 | 12442.7 | 12249.4 | 12104.4 | 11795.0 | 11509.8 |
| 5° | 14550.4 | 14473.1 | 14357.0 | 14212.0 | 14062.1 | 13694.7 | 13486.9 | 13245.2 | 12713.5 | 12234.9 | 11761.2 |
| 7.5° | 14729.2 | 14714.8 | 14777.6 | 14777.6 | 14830.8 | 14690.6 | 14395.7 | 14226.5 | 13660.9 | 12882.7 | 12002.8 |
| 10° | 13472.4 | 13515.9 | 13820.5 | 14216.9 | 14767.9 | 15149.8 | 15101.5 | 15058.0 | 14439.2 | 13375.8 | 12288.1 |
| 12.5° | 12471.8 | 12375.1 | 12553.9 | 12892.3 | 13718.9 | 14642.3 | 15265.8 | 15270.7 | 15111.1 | 14163.7 | 12496.0 |
| 15° | 11906.2 | 11973.9 | 12022.2 | 12181.8 | 12805.3 | 13873.7 | 14971.0 | 15294.8 | 15995.8 | 14719.6 | 12824.7 |
| 17.5° | 12268.7 | 12041.5 | 12031.9 | 12070.6 | 12389.6 | 13192.1 | 14424.7 | 14980.6 | 16479.2 | 15435.0 | 13230.7 |
| 20° | 12742.5 | 12737.6 | 12602.3 | 12553.9 | 12549.1 | 13264.6 | 14067.0 | 14821.1 | 16735.4 | 16363.1 | 13641.6 |
| 22.5° | 13573.9 | 13573.9 | 13351.6 | 13245.2 | 13018.0 | 13602.9 | 14115.4 | 14627.8 | 17160.8 | 17001.3 | 13839.8 |
| 25° | 14966.1 | 14739.0 | 14357.0 | 14096.0 | 13965.5 | 14173.3 | 14627.8 | 15087.0 | 17533.0 | 17678.0 | 14250.7 |
| 27.5° | 16251.9 | 15894.3 | 15705.7 | 15256.2 | 15082.1 | 14961.3 | 15377.0 | 15841.1 | 17968.0 | 18731.9 | 14473.1 |
| 30° | 17711.9 | 17649.0 | 17310.6 | 16730.5 | 16300.3 | 16078.0 | 16459.8 | 16919.1 | 18765.7 | 19809.8 | 14985.4 |
| 32.5° | 20322.2 | 19751.8 | 19292.6 | 18582.0 | 17881.1 | 17407.3 | 17784.4 | 18088.9 | 20090.2 | 20936.2 | 15546.2 |
| 35° | 23140.5 | 22956.8 | 22164.0 | 20883.0 | 19809.8 | 19384.4 | 19606.8 | 19834.0 | 21632.3 | 22657.0 | 16488.8 |
| 37.5° | 25910.3 | 25659.0 | 25006.4 | 23928.4 | 22623.2 | 21757.9 | 21917.4 | 22183.3 | 23362.8 | 24977.4 | 17639.3 |
| 40° | 27902.0 | 27592.6 | 27263.9 | 27104.3 | 25808.9 | 24624.5 | 24532.6 | 24600.3 | 25702.5 | 27152.7 | 18915.6 |
| 42.5° | 28047.0 | 28428.9 | 28530.4 | 29173.3 | 28868.7 | 27897.1 | 27331.6 | 27346.0 | 27935.8 | 29303.9 | 20206.2 |
| 45° | 27742.5 | 27389.6 | 28138.8 | 29893.6 | 30899.1 | 31353.4 | 30401.1 | 30280.3 | 29318.3 | 30551.0 | 20849.1 |
| 47.5° | 24547.1 | 24643.8 | 25910.3 | 28685.0 | 31590.3 | 33620.6 | 33398.2 | 32997.0 | 30058.0 | 30507.5 | 20747.6 |
| 50° | 19403.8 | 19988.7 | 21163.3 | 24619.6 | 29656.8 | 33978.4 | 35288.3 | 34360.2 | 29618.1 | 29308.6 | 19713.1 |
| 52.5° | 12921.3 | 13163.0 | 13936.5 | 18398.3 | 23846.2 | 30372.2 | 33113.1 | 33325.7 | 29212.0 | 27737.6 | 18403.1 |
| 55° | 5752.5 | 5733.1 | 6820.8 | 9610.0 | 14961.3 | 23111.4 | 27056.0 | 28351.5 | 27650.6 | 26137.6 | 17127.0 |
| 57.5° | 2436.4 | 2518.5 | 2963.3 | 4152.4 | 7357.4 | 13946.2 | 18330.6 | 19466.6 | 21264.9 | 21463.0 | 13138.9 |
| 60° | 1648.4 | 1658.1 | 1778.9 | 2078.6 | 3079.3 | 6550.1 | 9614.8 | 10978.1 | 12263.9 | 12176.9 | 6970.7 |
| 62.5° | 1295.6 | 1329.4 | 1421.2 | 1542.0 | 1827.3 | 2972.9 | 4302.3 | 5061.2 | 5143.4 | 4326.5 | 2644.2 |
| 65° | 1107.0 | 1111.9 | 1203.7 | 1305.2 | 1430.9 | 1730.6 | 2073.8 | 2112.5 | 2136.7 | 2059.3 | 1943.2 |
| 67.5° | 913.6 | 923.3 | 995.8 | 1111.9 | 1227.8 | 1324.5 | 1421.2 | 1469.5 | 1580.7 | 1798.2 | 1769.3 |
| 70° | 725.1 | 739.6 | 802.4 | 899.1 | 1005.5 | 1063.5 | 1184.4 | 1227.8 | 1329.4 | 1498.6 | 1566.2 |
| 72.5° | 551.1 | 555.9 | 609.1 | 676.7 | 773.4 | 831.5 | 932.9 | 981.3 | 1049.0 | 1194.0 | 1256.9 |
| 75° | 396.4 | 410.9 | 449.6 | 483.4 | 497.9 | 536.6 | 633.3 | 686.5 | 783.1 | 846.0 | 850.8 |
| 77.5° | 207.9 | 217.5 | 227.2 | 227.2 | 275.5 | 348.0 | 410.9 | 439.9 | 507.5 | 555.9 | 531.7 |
| 80° | 82.2 | 87.0 | 111.2 | 149.9 | 193.3 | 251.3 | 294.9 | 309.4 | 367.4 | 396.4 | 410.9 |
| 82.5° | 48.3 | 53.2 | 72.5 | 106.3 | 140.2 | 178.8 | 212.7 | 227.2 | 265.9 | 299.7 | 309.4 |
| 85° | 24.2 | 29.0 | 43.5 | 67.7 | 91.8 | 111.2 | 106.3 | 101.5 | 101.5 | 96.7 | 101.5 |
| 87.5° | 9.6 | 9.6 | 14.5 | 14.5 | 14.5 | 19.3 | 24.2 | 24.2 | 24.2 | 29.0 | 29.0 |
| 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° | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 | 11306.8 |
| 2.5° | 11321.2 | 11127.9 | 10949.1 | 10620.4 | 10262.6 | 10161.1 | 9745.4 | 9595.5 | 9489.2 | 9363.5 | 9324.8 |
| 5° | 11379.3 | 11123.1 | 10547.9 | 9885.6 | 9358.7 | 8681.9 | 8237.2 | 7758.6 | 7410.5 | 7323.6 | 7299.4 |
| 7.5° | 11500.2 | 11060.3 | 10069.3 | 9068.6 | 7990.7 | 7072.1 | 6371.3 | 5994.2 | 5660.6 | 5641.3 | 5607.5 |
| 10° | 11635.5 | 10871.7 | 9547.2 | 7976.1 | 6598.4 | 5747.6 | 5327.1 | 5162.7 | 5080.6 | 5061.2 | 5051.5 |
| 12.5° | 11746.6 | 10833.0 | 8962.3 | 6912.6 | 5612.3 | 5099.9 | 4974.2 | 4959.7 | 4993.5 | 5003.2 | 5022.6 |
| 15° | 11795.0 | 10678.3 | 8256.5 | 5960.4 | 4998.4 | 4809.8 | 4863.1 | 4921.0 | 4945.2 | 5008.1 | 4959.7 |
| 17.5° | 11886.9 | 10480.1 | 7386.4 | 5206.2 | 4655.2 | 4689.0 | 4780.8 | 4848.5 | 4887.2 | 4930.7 | 4867.8 |
| 20° | 11935.2 | 10301.3 | 6569.4 | 4756.6 | 4534.3 | 4597.1 | 4722.8 | 4776.0 | 4824.4 | 4843.7 | 4771.2 |
| 22.5° | 11891.7 | 9933.9 | 5849.2 | 4394.1 | 4418.3 | 4500.4 | 4611.6 | 4669.7 | 4640.7 | 4563.3 | 4519.8 |
| 25° | 11775.7 | 9416.7 | 5099.9 | 4162.1 | 4254.0 | 4399.0 | 4486.0 | 4442.4 | 4389.3 | 4345.8 | 4331.3 |
| 27.5° | 11770.8 | 8783.4 | 4558.5 | 3949.4 | 4113.7 | 4312.0 | 4282.9 | 4244.3 | 4268.4 | 4234.6 | 4195.9 |
| 30° | 11795.0 | 8169.5 | 4113.7 | 3828.6 | 4012.2 | 4108.9 | 4142.8 | 4104.1 | 4133.1 | 4070.3 | 4089.6 |
| 32.5° | 11669.4 | 7570.0 | 3823.7 | 3688.3 | 3891.4 | 3886.6 | 3997.8 | 4026.7 | 3959.1 | 3828.6 | 3847.9 |
| 35° | 11722.5 | 7086.7 | 3577.2 | 3625.5 | 3756.1 | 3756.1 | 3843.0 | 3809.2 | 3630.4 | 3553.0 | 3572.4 |
| 37.5° | 12089.9 | 6612.9 | 3456.3 | 3538.5 | 3625.5 | 3664.2 | 3635.2 | 3490.1 | 3446.7 | 3446.7 | 3456.3 |
| 40° | 12438.0 | 6206.9 | 3383.8 | 3519.2 | 3504.6 | 3528.8 | 3316.2 | 3330.6 | 3330.6 | 3335.5 | 3311.3 |
| 42.5° | 12747.3 | 5931.4 | 3325.8 | 3403.2 | 3427.3 | 3301.6 | 3171.2 | 3156.6 | 3190.5 | 3185.6 | 3166.3 |
| 45° | 12858.5 | 5704.2 | 3243.7 | 3272.6 | 3292.0 | 3084.1 | 3021.3 | 2992.2 | 3030.9 | 3045.4 | 3064.7 |
| 47.5° | 12433.1 | 5515.6 | 3151.8 | 3093.8 | 3055.1 | 2919.7 | 2837.6 | 2784.4 | 2832.7 | 2915.0 | 2934.2 |
| 50° | 11886.9 | 5269.1 | 3006.8 | 2895.6 | 2813.4 | 2755.4 | 2697.4 | 2644.2 | 2678.0 | 2736.0 | 2721.6 |
| 52.5° | 11079.6 | 4882.4 | 2823.1 | 2707.1 | 2566.8 | 2581.4 | 2528.2 | 2499.2 | 2518.5 | 2518.5 | 2504.0 |
| 55° | 9929.1 | 4012.2 | 2513.7 | 2431.5 | 2315.5 | 2354.2 | 2363.8 | 2325.2 | 2286.5 | 2320.3 | 2291.3 |
| 57.5° | 6777.3 | 2832.7 | 2243.0 | 2243.0 | 2126.9 | 2180.1 | 2175.3 | 2083.5 | 1991.6 | 2001.3 | 1981.9 |
| 60° | 3920.4 | 2257.5 | 2069.0 | 2049.7 | 1928.8 | 1972.3 | 1981.9 | 1919.1 | 1778.9 | 1788.6 | 1769.3 |
| 62.5° | 2228.5 | 1928.8 | 1807.9 | 1778.9 | 1754.8 | 1793.4 | 1793.4 | 1711.2 | 1590.4 | 1600.1 | 1580.7 |
| 65° | 1894.9 | 1788.6 | 1614.5 | 1609.7 | 1600.1 | 1609.7 | 1571.1 | 1484.0 | 1377.7 | 1334.2 | 1339.0 |
| 67.5° | 1720.9 | 1653.2 | 1484.0 | 1440.6 | 1411.5 | 1406.7 | 1334.2 | 1252.0 | 1203.7 | 1165.0 | 1160.2 |
| 70° | 1508.2 | 1455.0 | 1329.4 | 1271.4 | 1242.3 | 1174.7 | 1102.2 | 1049.0 | 981.3 | 962.0 | 981.3 |
| 72.5° | 1194.0 | 1189.1 | 1140.8 | 1078.0 | 1015.2 | 962.0 | 899.1 | 826.6 | 763.7 | 749.3 | 715.4 |
| 75° | 826.6 | 836.3 | 846.0 | 836.3 | 783.1 | 715.4 | 642.9 | 584.9 | 507.5 | 464.1 | 454.4 |
| 77.5° | 541.4 | 555.9 | 570.4 | 551.1 | 517.2 | 454.4 | 406.1 | 333.6 | 275.5 | 241.7 | 236.9 |
| 80° | 396.4 | 415.7 | 425.4 | 410.9 | 372.2 | 323.8 | 270.7 | 212.7 | 169.2 | 140.2 | 140.2 |
| 82.5° | 304.5 | 323.8 | 333.6 | 309.4 | 270.7 | 232.0 | 193.3 | 149.9 | 116.0 | 91.8 | 87.0 |
| 85° | 106.3 | 101.5 | 120.8 | 125.7 | 149.9 | 140.2 | 116.0 | 87.0 | 67.7 | 48.3 | 43.5 |
| 87.5° | 29.0 | 29.0 | 33.8 | 33.8 | 29.0 | 24.2 | 24.2 | 24.2 | 19.3 | 14.5 | 14.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)