

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: P956466

Luminaire Tested: **GALN-SB9A-840-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33322 lumens
Efficiency: N/A
Efficacy: 130.4 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

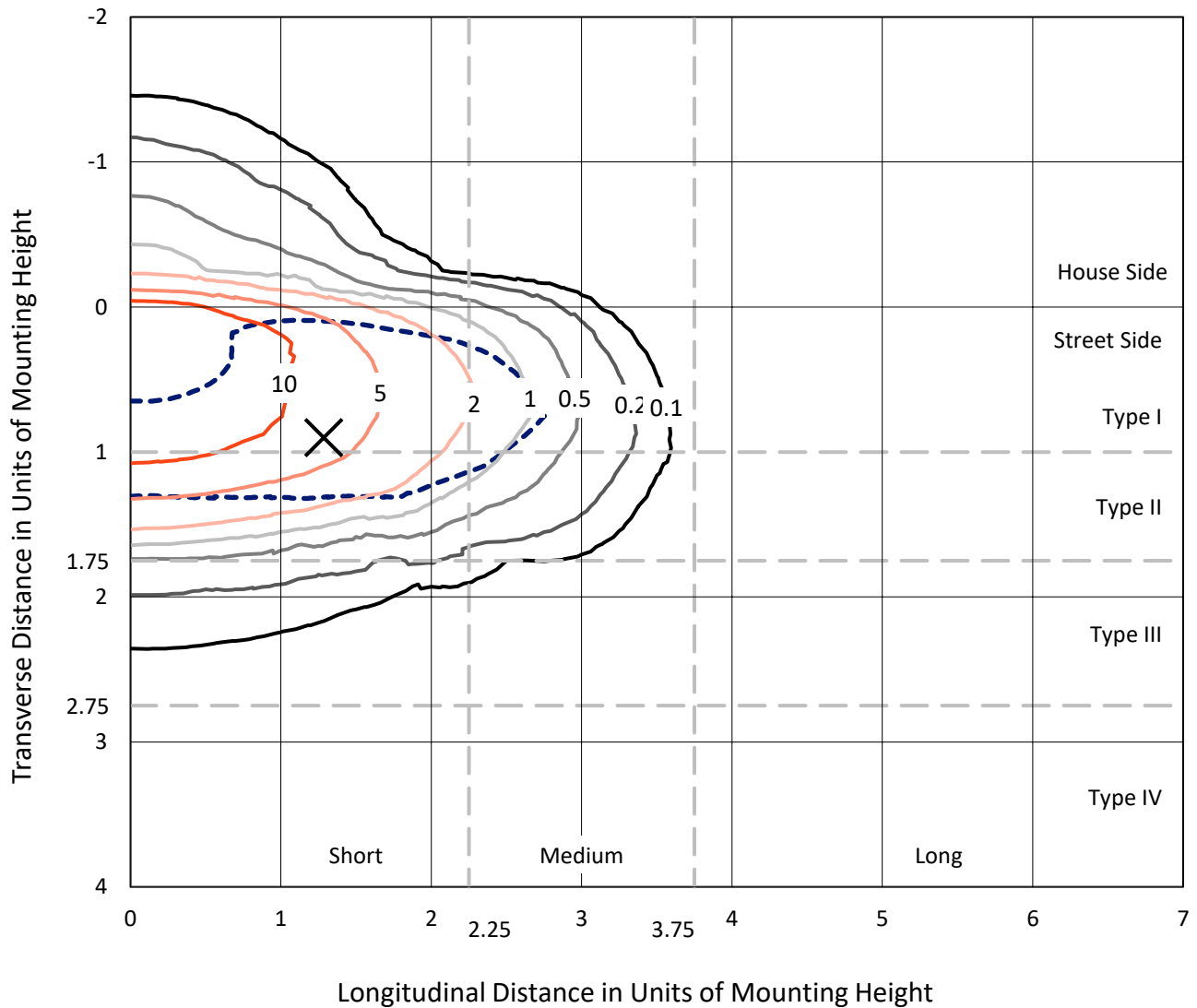
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

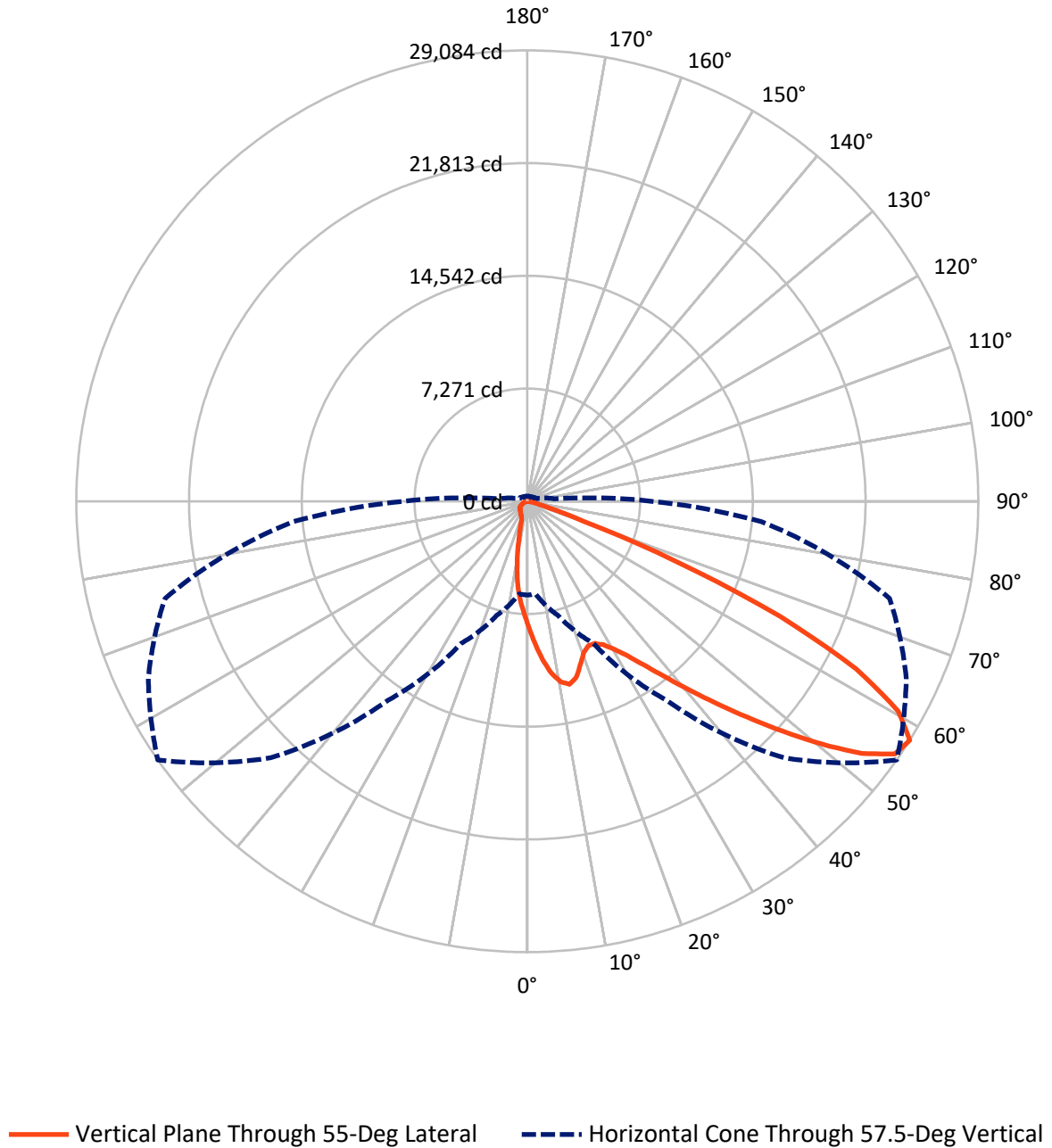
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2602.3 | 0.0 | 2602.3 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 30719.7 | 0.0 | 30719.7 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 33322.0 | 0.0 | 33322.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 747.1 | 2.2 |
| 10°-20° | 1804.7 | 5.4 |
| 20°-30° | 2887.5 | 8.7 |
| 30°-40° | 4887.2 | 14.7 |
| 40°-50° | 8023.8 | 24.1 |
| 50°-60° | 8818.7 | 26.5 |
| 60°-70° | 5058.4 | 15.2 |
| 70°-80° | 1033.6 | 3.1 |
| 80°-90° | 61.0 | 0.2 |
| 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° | 33322.0 | 100.0 |
| 0°-180° | 33322.0 | 100.0 |

Coefficient of Utilization



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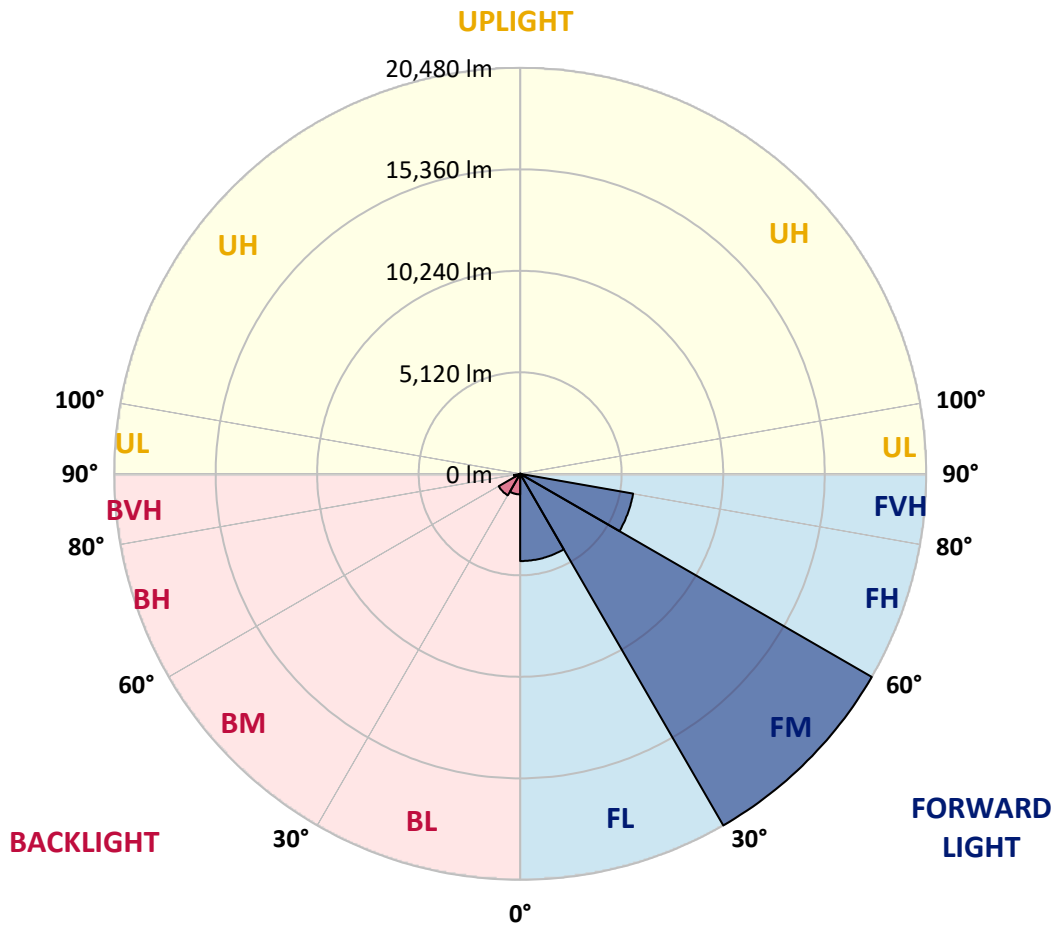
CATALOG NUMBER: GALN-SB9A-840-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4400.4 | 13.2 | | | |
| FM (30°-60°) | 20479.9 | 61.5 | | | |
| FH (60°-80°) | 5782.5 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 56.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1038.9 | 3.1 | B3/2500 | | |
| BM (30°-60°) | 1249.8 | 3.8 | B2/2500 | | |
| BH (60°-80°) | 309.5 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.1 | 0.0 | | | G0/10 |
| 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° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 |
| 2.5° | 9963.3 | 9837.9 | 9819.4 | 9794.8 | 9556.4 | 9377.7 | 9118.8 | 8835.2 | 8516.7 | 8192.1 |
| 5° | 11510.4 | 11411.8 | 11393.3 | 11278.3 | 11007.0 | 10702.9 | 10242.7 | 9661.2 | 9067.4 | 8368.8 |
| 7.5° | 11810.4 | 11791.9 | 11876.2 | 11872.1 | 11835.1 | 11594.7 | 11206.4 | 10513.9 | 9622.2 | 8586.6 |
| 10° | 10472.8 | 10520.1 | 10770.8 | 10990.6 | 11584.4 | 11929.6 | 11845.4 | 11274.2 | 10193.4 | 8835.2 |
| 12.5° | 9254.4 | 9198.9 | 9377.7 | 9626.3 | 10316.7 | 11344.0 | 12110.4 | 11909.1 | 10846.8 | 9116.7 |
| 15° | 8490.0 | 8467.4 | 8568.1 | 8683.2 | 9209.2 | 10244.8 | 11802.2 | 12424.8 | 11475.5 | 9449.6 |
| 17.5° | 8245.5 | 8227.0 | 8257.9 | 8286.6 | 8627.7 | 9429.0 | 11068.7 | 12741.2 | 12077.5 | 9829.7 |
| 20° | 8444.8 | 8420.2 | 8416.1 | 8393.5 | 8535.2 | 9081.8 | 10405.0 | 12763.8 | 12617.9 | 10174.9 |
| 22.5° | 9026.3 | 8997.5 | 8896.9 | 8806.5 | 8818.8 | 9129.0 | 10109.1 | 12537.8 | 13024.8 | 10497.5 |
| 25° | 10080.4 | 10033.1 | 9823.5 | 9519.4 | 9326.3 | 9457.8 | 10154.3 | 12239.9 | 13413.1 | 10750.2 |
| 27.5° | 11399.5 | 11337.9 | 11068.7 | 10616.7 | 10174.9 | 10014.6 | 10481.0 | 12034.4 | 13735.7 | 10943.4 |
| 30° | 12691.9 | 12611.8 | 12346.7 | 11995.4 | 11350.2 | 10844.7 | 11070.7 | 12124.8 | 14119.9 | 11144.7 |
| 32.5° | 14087.0 | 14011.0 | 13659.7 | 13224.1 | 12689.8 | 12009.7 | 11878.2 | 12566.6 | 14590.4 | 11426.2 |
| 35° | 15852.0 | 15732.9 | 15233.6 | 14639.8 | 14072.7 | 13384.3 | 12971.3 | 13328.9 | 15217.1 | 11855.6 |
| 37.5° | 17861.5 | 17701.3 | 17162.9 | 16343.1 | 15603.4 | 14832.9 | 14302.8 | 14376.8 | 16135.6 | 12431.0 |
| 40° | 19756.0 | 19610.1 | 19112.9 | 18340.3 | 17411.6 | 16476.7 | 15911.6 | 15747.2 | 17403.3 | 13131.6 |
| 42.5° | 20892.2 | 20760.7 | 20551.1 | 20224.4 | 19441.6 | 18488.2 | 17775.2 | 17419.8 | 18903.3 | 13969.9 |
| 45° | 20955.9 | 20840.9 | 21122.4 | 21502.5 | 21348.4 | 20713.5 | 19844.3 | 19193.0 | 20409.4 | 14756.9 |
| 47.5° | 19936.8 | 19858.7 | 20713.5 | 22040.8 | 22702.4 | 22969.5 | 22168.2 | 20818.3 | 21652.5 | 15321.9 |
| 50° | 17158.8 | 17130.1 | 18888.9 | 21325.8 | 23218.1 | 24946.2 | 24619.5 | 22330.5 | 22616.1 | 15613.7 |
| 52.5° | 14878.1 | 14773.3 | 15798.6 | 19036.8 | 22468.2 | 25985.8 | 27015.2 | 23814.0 | 23290.1 | 15669.2 |
| 55° | 11284.4 | 11192.0 | 12478.2 | 15206.9 | 20049.8 | 25616.0 | 28767.9 | 25344.8 | 23772.9 | 15527.4 |
| 57.5° | 6053.2 | 5995.6 | 7620.9 | 10121.5 | 15673.3 | 23396.9 | 29084.3 | 26963.9 | 24179.7 | 15151.4 |
| 60° | 2356.7 | 2346.5 | 2954.7 | 4910.7 | 9525.6 | 19034.8 | 27487.8 | 27935.7 | 24434.5 | 14689.1 |
| 62.5° | 1426.0 | 1456.8 | 1555.4 | 2204.7 | 4208.0 | 11824.8 | 23807.8 | 26830.3 | 24605.1 | 14265.8 |
| 65° | 1179.4 | 1181.5 | 1193.8 | 1514.3 | 2015.7 | 4947.7 | 17923.2 | 23193.5 | 24183.9 | 13511.7 |
| 67.5° | 1010.9 | 1029.4 | 1076.7 | 1202.0 | 1421.9 | 2169.8 | 10318.7 | 17966.3 | 21621.6 | 11757.0 |
| 70° | 797.2 | 821.9 | 881.5 | 988.3 | 1097.2 | 1358.2 | 3813.5 | 11954.3 | 16517.8 | 8861.9 |
| 72.5° | 671.9 | 669.8 | 700.7 | 803.4 | 871.2 | 955.4 | 1467.1 | 6698.3 | 9599.6 | 4230.6 |
| 75° | 519.8 | 540.4 | 579.4 | 671.9 | 713.0 | 692.4 | 795.2 | 2447.2 | 3439.6 | 1282.1 |
| 77.5° | 406.8 | 423.3 | 458.2 | 548.6 | 589.7 | 491.1 | 458.2 | 875.3 | 1105.4 | 460.3 |
| 80° | 182.9 | 197.3 | 312.3 | 404.8 | 480.8 | 339.0 | 248.6 | 447.9 | 491.1 | 209.6 |
| 82.5° | 32.9 | 55.5 | 182.9 | 213.7 | 246.6 | 219.9 | 129.4 | 232.2 | 240.4 | 84.2 |
| 85° | 2.1 | 4.1 | 63.7 | 78.1 | 98.6 | 71.9 | 39.0 | 92.5 | 80.1 | 28.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.1 | 2.1 | 10.3 | 12.3 | 16.4 | 12.3 | 10.3 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8029.8 | 0° | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 | 8029.8 |
| 8048.3 | 2.5° | 7900.3 | 7608.6 | 7325.0 | 7092.8 | 6957.2 | 6727.1 | 6575.1 | 6550.4 | 6486.7 | 6542.2 |
| 8068.8 | 5° | 7748.3 | 7226.4 | 6698.3 | 6225.8 | 5837.4 | 5336.1 | 4962.1 | 4803.9 | 4666.2 | 4713.5 |
| 8122.2 | 7.5° | 7676.4 | 6852.4 | 6030.6 | 5223.1 | 4393.0 | 3591.6 | 2995.8 | 2747.1 | 2558.1 | 2584.8 |
| 8181.8 | 10° | 7579.8 | 6464.1 | 5175.8 | 3943.0 | 2831.4 | 2040.3 | 1629.4 | 1477.3 | 1393.1 | 1395.1 |
| 8270.2 | 12.5° | 7505.8 | 5999.7 | 4183.4 | 2673.2 | 1723.9 | 1302.7 | 1175.3 | 1138.3 | 1113.6 | 1115.7 |
| 8403.7 | 15° | 7468.8 | 5453.2 | 3203.3 | 1781.4 | 1232.8 | 1103.4 | 1072.6 | 1056.1 | 1039.7 | 1037.6 |
| 8551.7 | 17.5° | 7407.2 | 4845.0 | 2344.4 | 1300.6 | 1078.7 | 1033.5 | 1006.8 | 988.3 | 967.8 | 963.7 |
| 8679.1 | 20° | 7314.7 | 4154.6 | 1713.6 | 1099.3 | 1010.9 | 976.0 | 939.0 | 914.3 | 889.7 | 885.6 |
| 8759.2 | 22.5° | 7144.2 | 3425.2 | 1317.1 | 1017.1 | 961.6 | 922.6 | 877.4 | 848.6 | 823.9 | 819.8 |
| 8720.2 | 25° | 6827.8 | 2741.0 | 1109.5 | 965.7 | 918.5 | 871.2 | 821.9 | 782.8 | 760.2 | 756.1 |
| 8635.9 | 27.5° | 6427.1 | 2153.3 | 1006.8 | 918.5 | 863.0 | 819.8 | 764.3 | 727.4 | 706.8 | 702.7 |
| 8525.0 | 30° | 5954.5 | 1658.1 | 947.2 | 865.0 | 797.2 | 760.2 | 710.9 | 680.1 | 667.8 | 667.8 |
| 8446.9 | 32.5° | 5445.0 | 1325.3 | 922.6 | 811.6 | 739.7 | 698.6 | 659.6 | 647.2 | 643.1 | 641.1 |
| 8490.0 | 35° | 4966.2 | 1150.6 | 910.2 | 768.5 | 688.3 | 649.3 | 632.8 | 634.9 | 643.1 | 643.1 |
| 8623.6 | 37.5° | 4540.9 | 1095.2 | 904.1 | 737.6 | 643.1 | 608.2 | 618.5 | 637.0 | 628.7 | 628.7 |
| 8857.8 | 40° | 4156.7 | 1101.3 | 900.0 | 715.0 | 606.1 | 585.6 | 606.1 | 591.8 | 571.2 | 569.2 |
| 9143.4 | 42.5° | 3862.8 | 1152.7 | 891.7 | 696.5 | 583.5 | 569.2 | 560.9 | 538.3 | 536.3 | 540.4 |
| 9439.3 | 45° | 3649.2 | 1197.9 | 889.7 | 688.3 | 558.9 | 532.2 | 521.9 | 499.3 | 540.4 | 550.7 |
| 9560.5 | 47.5° | 3396.4 | 1197.9 | 889.7 | 659.6 | 517.8 | 507.5 | 491.1 | 466.4 | 507.5 | 517.8 |
| 9445.5 | 50° | 3069.7 | 1121.9 | 854.8 | 626.7 | 484.9 | 478.7 | 450.0 | 419.2 | 410.9 | 417.1 |
| 9176.3 | 52.5° | 2656.7 | 984.2 | 766.4 | 581.5 | 452.0 | 439.7 | 404.8 | 382.2 | 376.0 | 376.0 |
| 8693.4 | 55° | 2186.2 | 823.9 | 647.2 | 515.7 | 417.1 | 394.5 | 369.8 | 359.6 | 353.4 | 349.3 |
| 8017.5 | 57.5° | 1777.3 | 676.0 | 519.8 | 458.2 | 384.2 | 355.5 | 347.2 | 334.9 | 324.6 | 318.5 |
| 7452.4 | 60° | 1458.8 | 532.2 | 429.4 | 406.8 | 351.4 | 324.6 | 322.6 | 306.2 | 279.4 | 275.3 |
| 6986.0 | 62.5° | 1126.0 | 390.4 | 361.6 | 353.4 | 318.5 | 295.9 | 291.8 | 258.9 | 217.8 | 209.6 |
| 6324.4 | 65° | 795.2 | 304.1 | 291.8 | 310.3 | 283.5 | 263.0 | 252.7 | 203.4 | 160.3 | 154.1 |
| 5292.9 | 67.5° | 558.9 | 254.8 | 230.1 | 271.2 | 246.6 | 219.9 | 213.7 | 172.6 | 133.6 | 129.4 |
| 4002.6 | 70° | 398.6 | 207.5 | 189.0 | 232.2 | 197.3 | 193.1 | 180.8 | 143.8 | 108.9 | 104.8 |
| 1980.7 | 72.5° | 281.5 | 158.2 | 145.9 | 201.4 | 135.6 | 166.4 | 147.9 | 111.0 | 82.2 | 78.1 |
| 673.9 | 75° | 207.5 | 113.0 | 102.7 | 117.1 | 98.6 | 125.3 | 104.8 | 74.0 | 51.4 | 49.3 |
| 304.1 | 77.5° | 152.0 | 71.9 | 61.6 | 57.5 | 57.5 | 78.1 | 57.5 | 30.8 | 22.6 | 20.5 |
| 154.1 | 80° | 106.8 | 32.9 | 28.8 | 24.7 | 22.6 | 18.5 | 8.2 | 4.1 | 2.1 | 2.1 |
| 53.4 | 82.5° | 63.7 | 14.4 | 14.4 | 10.3 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 20.5 | 85° | 14.4 | 6.2 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8.2 | 87.5° | 2.1 | 2.1 | 0.0 | 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 |

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