

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: P943768

Luminaire Tested: **GALN-SB8B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20985 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

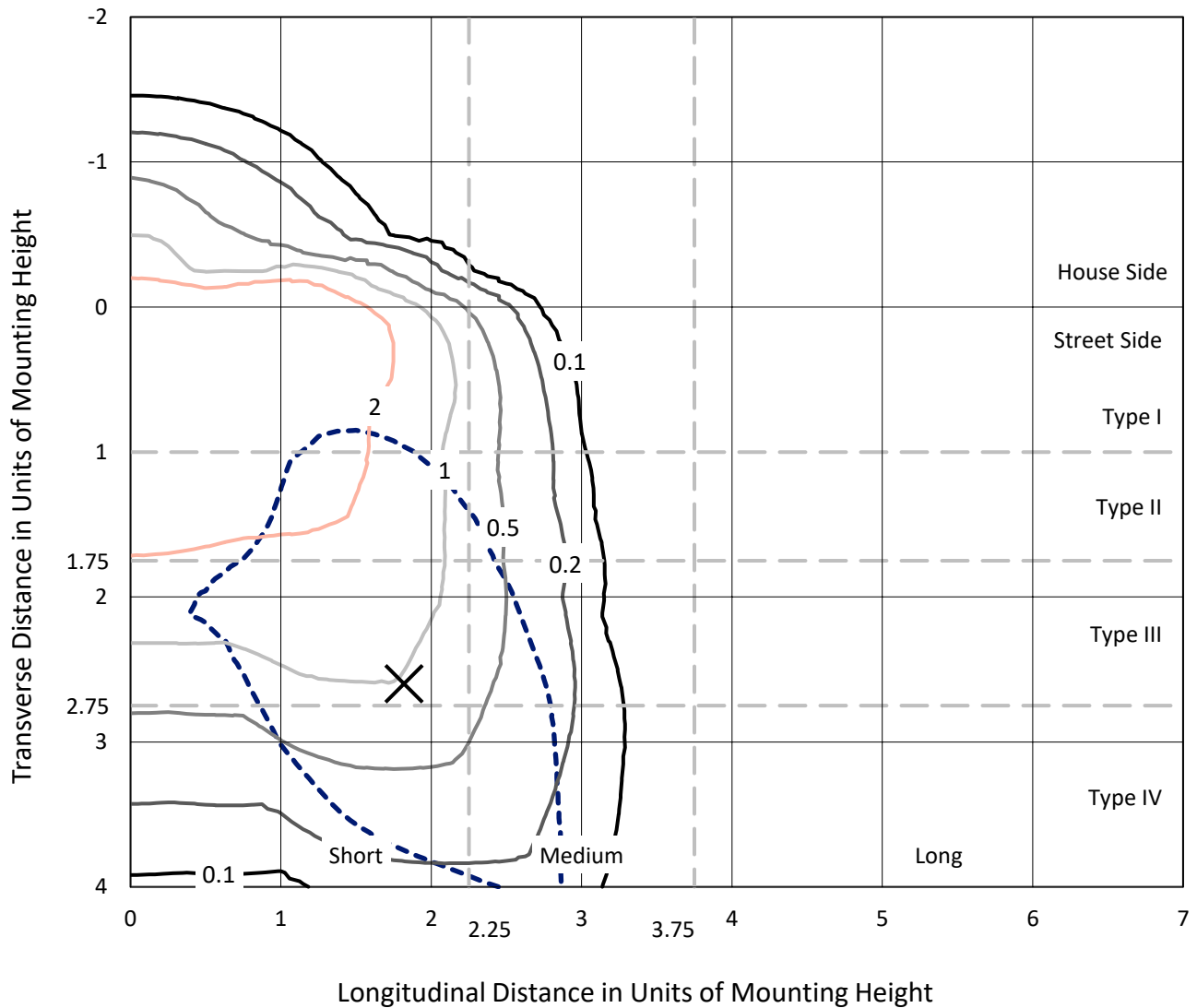
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

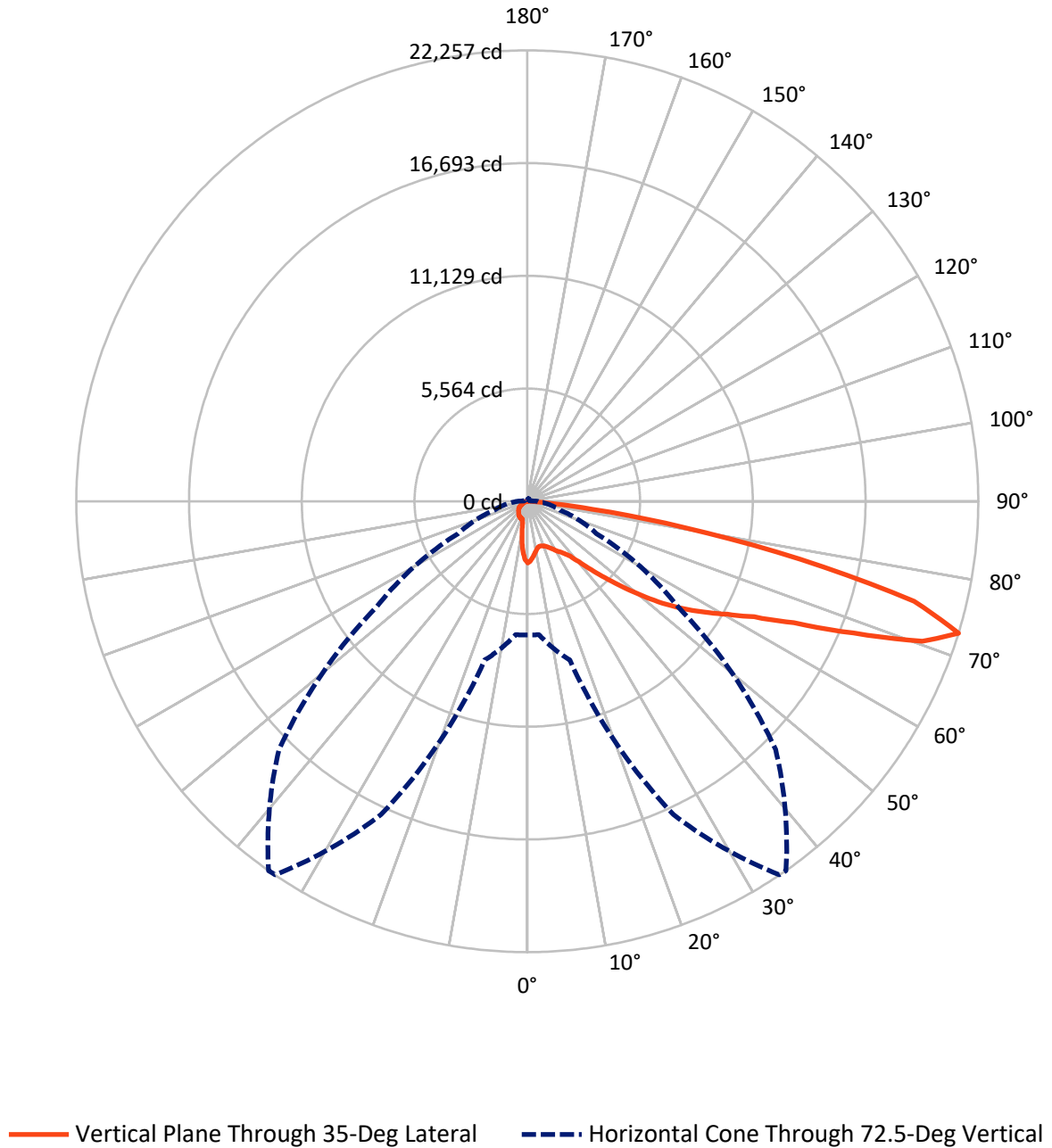
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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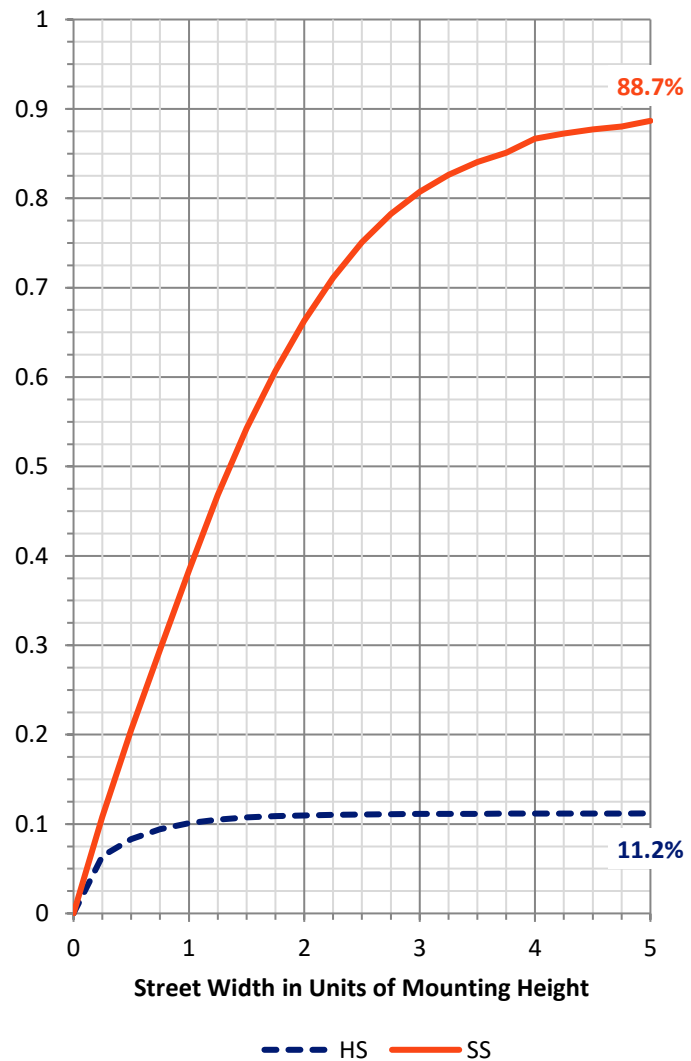
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2361.8 | 0.0 | 2361.8 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 18623.2 | 0.0 | 18623.2 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 20985.0 | 0.0 | 20985.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.9 | 1.2 |
| 10°-20° | 584.7 | 2.8 |
| 20°-30° | 949.8 | 4.5 |
| 30°-40° | 1584.7 | 7.6 |
| 40°-50° | 2998.3 | 14.3 |
| 50°-60° | 4764.3 | 22.7 |
| 60°-70° | 5893.7 | 28.1 |
| 70°-80° | 3663.6 | 17.5 |
| 80°-90° | 296.1 | 1.4 |
| 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° | 20985.0 | 100.0 |
| 0°-180° | 20985.0 | 100.0 |

Coefficient of Utilization



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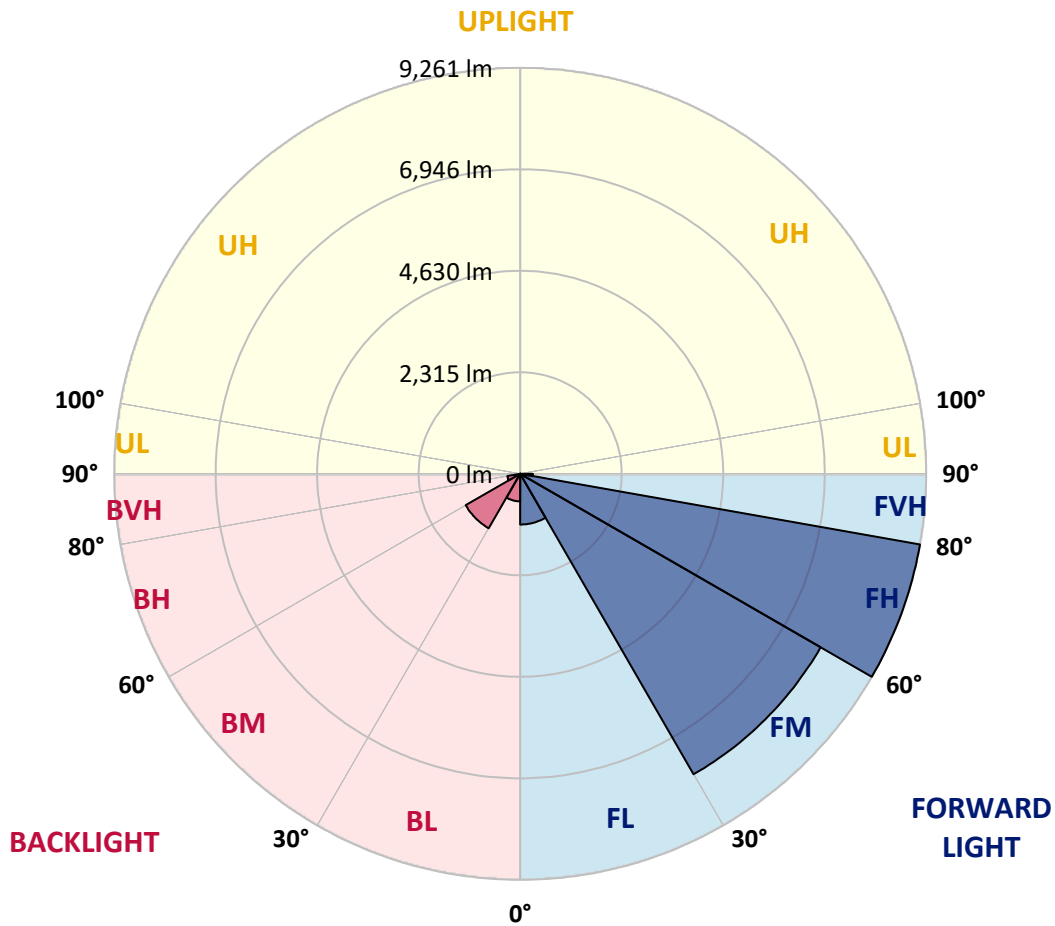
CATALOG NUMBER: GALN-SB8B-927-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1156.8 | 5.5 | | | |
| FM (30°-60°) | 7913.4 | 37.7 | | | |
| FH (60°-80°) | 9260.9 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 292.0 | 1.4 | | | G3/500 |
| BL (0°-30°) | 627.6 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1433.8 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 296.4 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 |
| 2.5° | 2906.1 | 2930.7 | 2935.3 | 2943.0 | 2943.0 | 2952.2 | 2967.6 | 2989.2 | 3024.5 | 3043.0 |
| 5° | 2678.5 | 2697.0 | 2720.1 | 2738.5 | 2773.9 | 2778.5 | 2838.5 | 2896.9 | 2978.4 | 3039.9 |
| 7.5° | 2449.4 | 2471.0 | 2501.7 | 2546.3 | 2592.4 | 2606.3 | 2697.0 | 2795.4 | 2924.6 | 3039.9 |
| 10° | 2288.0 | 2289.5 | 2317.2 | 2361.8 | 2435.6 | 2452.5 | 2563.2 | 2703.2 | 2864.6 | 3021.4 |
| 12.5° | 2197.3 | 2208.0 | 2220.3 | 2254.2 | 2324.9 | 2335.7 | 2454.1 | 2618.6 | 2804.6 | 3010.7 |
| 15° | 2197.3 | 2205.0 | 2212.6 | 2229.6 | 2286.5 | 2295.7 | 2400.2 | 2564.8 | 2773.9 | 3015.3 |
| 17.5° | 2220.3 | 2232.6 | 2226.5 | 2246.5 | 2306.4 | 2312.6 | 2404.9 | 2549.4 | 2772.3 | 3044.5 |
| 20° | 2275.7 | 2284.9 | 2272.6 | 2284.9 | 2344.9 | 2357.2 | 2452.5 | 2578.6 | 2798.5 | 3095.2 |
| 22.5° | 2363.3 | 2367.9 | 2338.7 | 2348.0 | 2409.5 | 2424.8 | 2535.6 | 2661.6 | 2861.5 | 3176.7 |
| 25° | 2474.0 | 2483.3 | 2438.7 | 2449.4 | 2507.9 | 2526.3 | 2653.9 | 2786.2 | 2961.5 | 3289.0 |
| 27.5° | 2601.7 | 2606.3 | 2567.8 | 2566.3 | 2641.6 | 2667.8 | 2796.9 | 2939.9 | 3095.2 | 3430.5 |
| 30° | 2747.7 | 2761.6 | 2724.7 | 2718.5 | 2813.9 | 2835.4 | 2963.0 | 3129.1 | 3292.1 | 3642.6 |
| 32.5° | 2863.1 | 2873.8 | 2852.3 | 2867.7 | 2964.5 | 2981.5 | 3164.4 | 3396.6 | 3601.1 | 3944.0 |
| 35° | 3029.1 | 3035.3 | 2986.1 | 3013.8 | 3124.5 | 3167.5 | 3439.7 | 3771.8 | 3990.1 | 4322.3 |
| 37.5° | 3630.3 | 3630.3 | 3421.2 | 3284.4 | 3390.5 | 3428.9 | 3816.4 | 4243.9 | 4469.9 | 4829.7 |
| 40° | 4462.2 | 4448.4 | 4142.4 | 3862.5 | 3848.7 | 3924.0 | 4353.0 | 4838.9 | 5089.6 | 5438.6 |
| 42.5° | 5349.4 | 5327.9 | 4911.2 | 4634.4 | 4588.3 | 4614.4 | 4972.7 | 5572.4 | 5827.6 | 6181.3 |
| 45° | 6136.7 | 6130.5 | 5749.2 | 5377.1 | 5294.1 | 5377.1 | 5746.1 | 6430.4 | 6613.3 | 6985.4 |
| 47.5° | 6796.3 | 6796.3 | 6518.0 | 6275.1 | 6232.0 | 6281.2 | 6793.2 | 7382.2 | 7365.2 | 7841.9 |
| 50° | 7555.9 | 7549.8 | 7285.3 | 7180.7 | 7225.3 | 7294.5 | 7998.7 | 8384.7 | 8143.3 | 8683.0 |
| 52.5° | 8087.9 | 8124.8 | 8034.1 | 8017.2 | 8244.8 | 8364.7 | 9222.7 | 9365.7 | 8839.8 | 9481.0 |
| 55° | 8509.2 | 8552.3 | 8656.9 | 8775.2 | 9213.5 | 9370.3 | 10408.2 | 10296.0 | 9422.6 | 10173.0 |
| 57.5° | 9105.8 | 9044.3 | 9205.8 | 9439.5 | 10148.4 | 10337.5 | 11556.8 | 11173.9 | 9891.6 | 10734.2 |
| 60° | 9830.1 | 9839.3 | 9867.0 | 10162.2 | 11081.7 | 11324.6 | 12688.5 | 12004.3 | 10192.9 | 11078.6 |
| 62.5° | 10700.4 | 10714.2 | 10771.1 | 11224.7 | 12334.9 | 12564.0 | 13894.0 | 12683.9 | 10331.3 | 10981.7 |
| 65° | 10640.4 | 10698.8 | 11333.9 | 12885.3 | 14240.0 | 14466.0 | 15300.9 | 13160.6 | 10122.2 | 10096.1 |
| 67.5° | 9693.2 | 9788.5 | 10851.0 | 14868.9 | 17112.3 | 17364.4 | 17001.6 | 13254.4 | 9219.6 | 7851.1 |
| 70° | 8450.8 | 8484.6 | 9762.4 | 16652.5 | 20438.2 | 20693.4 | 18523.8 | 12222.6 | 6996.2 | 4379.2 |
| 72.5° | 6599.5 | 6607.2 | 8106.4 | 17066.1 | 22243.3 | 22257.2 | 17329.1 | 9073.5 | 3762.6 | 1682.2 |
| 75° | 4714.4 | 4668.2 | 5429.4 | 13840.2 | 19569.4 | 19726.2 | 12991.4 | 4256.2 | 1437.7 | 795.0 |
| 77.5° | 2527.9 | 2578.6 | 3072.2 | 8207.9 | 13518.8 | 13786.4 | 7088.5 | 1227.0 | 731.9 | 541.2 |
| 80° | 781.1 | 824.2 | 1259.3 | 3758.0 | 7657.4 | 7818.8 | 2627.8 | 545.9 | 510.5 | 385.9 |
| 82.5° | 246.0 | 255.2 | 587.4 | 1579.1 | 3178.3 | 3252.1 | 761.1 | 309.1 | 349.0 | 255.2 |
| 85° | 70.7 | 72.3 | 261.4 | 588.9 | 785.7 | 801.1 | 213.7 | 119.9 | 199.9 | 158.4 |
| 87.5° | 7.7 | 24.6 | 98.4 | 98.4 | 69.2 | 67.7 | 23.1 | 26.1 | 56.9 | 20.0 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3041.4 | 0° | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 | 3041.4 |
| 3055.3 | 2.5° | 3047.6 | 3049.1 | 3029.1 | 2995.3 | 2958.4 | 2927.6 | 2889.2 | 2858.5 | 2836.9 | 2830.8 |
| 3082.9 | 5° | 3069.1 | 3058.3 | 3001.5 | 2898.4 | 2775.4 | 2669.3 | 2550.9 | 2457.1 | 2395.6 | 2369.5 |
| 3112.2 | 7.5° | 3101.4 | 3070.6 | 2946.1 | 2743.1 | 2507.9 | 2298.8 | 2086.6 | 1922.0 | 1817.5 | 1765.2 |
| 3139.8 | 10° | 3129.1 | 3067.6 | 2853.8 | 2518.6 | 2158.8 | 1842.1 | 1556.1 | 1357.7 | 1247.0 | 1194.7 |
| 3172.1 | 12.5° | 3155.2 | 3066.0 | 2733.9 | 2252.6 | 1765.2 | 1377.7 | 1111.7 | 1013.3 | 982.5 | 971.8 |
| 3224.4 | 15° | 3204.4 | 3070.6 | 2583.2 | 1948.2 | 1373.1 | 1041.0 | 944.1 | 942.6 | 948.7 | 945.6 |
| 3304.4 | 17.5° | 3272.1 | 3075.3 | 2412.5 | 1625.3 | 1059.4 | 918.0 | 913.4 | 927.2 | 936.4 | 931.8 |
| 3404.3 | 20° | 3359.7 | 3093.7 | 2231.1 | 1305.4 | 910.3 | 887.2 | 898.0 | 910.3 | 918.0 | 910.3 |
| 3538.1 | 22.5° | 3482.7 | 3126.0 | 2032.7 | 1048.7 | 862.6 | 868.8 | 878.0 | 891.8 | 899.5 | 888.7 |
| 3708.8 | 25° | 3633.4 | 3176.7 | 1837.5 | 911.8 | 839.5 | 847.2 | 861.1 | 876.4 | 885.7 | 874.9 |
| 3924.0 | 27.5° | 3828.7 | 3258.2 | 1657.6 | 881.1 | 816.5 | 821.1 | 841.1 | 864.1 | 876.4 | 862.6 |
| 4230.0 | 30° | 4111.6 | 3392.0 | 1502.3 | 894.9 | 802.6 | 791.9 | 819.6 | 851.8 | 865.7 | 853.4 |
| 4646.7 | 32.5° | 4486.8 | 3581.1 | 1406.9 | 916.4 | 796.5 | 758.1 | 784.2 | 825.7 | 848.8 | 841.1 |
| 5191.0 | 35° | 4978.8 | 3868.7 | 1370.0 | 941.0 | 791.9 | 722.7 | 741.1 | 785.7 | 825.7 | 833.4 |
| 5876.8 | 37.5° | 5575.4 | 4268.5 | 1380.8 | 951.8 | 778.0 | 693.5 | 702.7 | 741.1 | 793.4 | 818.0 |
| 6648.7 | 40° | 6253.5 | 4734.4 | 1442.3 | 941.0 | 762.7 | 668.9 | 670.4 | 699.6 | 745.8 | 782.7 |
| 7479.0 | 42.5° | 6953.2 | 5278.7 | 1556.1 | 901.1 | 748.8 | 647.3 | 642.7 | 662.7 | 693.5 | 719.6 |
| 8307.8 | 45° | 7619.0 | 5838.4 | 1668.3 | 845.7 | 731.9 | 625.8 | 615.1 | 622.7 | 628.9 | 639.7 |
| 9115.1 | 47.5° | 8200.2 | 6232.0 | 1636.0 | 795.0 | 708.8 | 601.2 | 582.8 | 579.7 | 561.2 | 559.7 |
| 9836.2 | 50° | 8601.5 | 6318.1 | 1453.1 | 744.2 | 675.0 | 573.5 | 544.3 | 525.9 | 493.6 | 478.2 |
| 10375.9 | 52.5° | 8729.1 | 5978.3 | 1187.0 | 693.5 | 619.7 | 536.6 | 495.1 | 465.9 | 425.9 | 412.1 |
| 10686.5 | 55° | 8560.0 | 5312.5 | 948.7 | 632.0 | 542.8 | 487.4 | 441.3 | 402.9 | 370.6 | 353.7 |
| 10720.3 | 57.5° | 8146.4 | 4465.3 | 750.4 | 559.7 | 461.3 | 432.1 | 385.9 | 347.5 | 319.8 | 302.9 |
| 10345.2 | 60° | 7460.6 | 3545.8 | 593.5 | 473.6 | 393.6 | 372.1 | 324.4 | 299.8 | 275.2 | 255.2 |
| 9376.5 | 62.5° | 6419.6 | 2530.9 | 465.9 | 375.2 | 329.1 | 304.5 | 276.8 | 258.3 | 229.1 | 201.4 |
| 7634.3 | 65° | 5009.6 | 1548.4 | 359.8 | 275.2 | 264.5 | 252.2 | 235.3 | 218.3 | 183.0 | 155.3 |
| 4980.4 | 67.5° | 3159.8 | 733.4 | 256.8 | 207.6 | 209.1 | 203.0 | 195.3 | 181.4 | 155.3 | 130.7 |
| 2231.1 | 70° | 1391.6 | 355.2 | 169.1 | 158.4 | 155.3 | 155.3 | 161.5 | 156.8 | 132.2 | 109.2 |
| 775.0 | 72.5° | 473.6 | 190.7 | 126.1 | 119.9 | 112.2 | 110.7 | 135.3 | 130.7 | 106.1 | 84.6 |
| 385.9 | 75° | 247.6 | 127.6 | 92.3 | 86.1 | 67.7 | 81.5 | 107.6 | 101.5 | 75.3 | 55.4 |
| 255.2 | 77.5° | 161.5 | 90.7 | 63.0 | 55.4 | 38.4 | 53.8 | 80.0 | 70.7 | 44.6 | 27.7 |
| 167.6 | 80° | 101.5 | 60.0 | 36.9 | 26.1 | 18.5 | 29.2 | 43.1 | 30.8 | 16.9 | 6.2 |
| 98.4 | 82.5° | 53.8 | 30.8 | 13.8 | 9.2 | 7.7 | 9.2 | 10.8 | 7.7 | 3.1 | 0.0 |
| 50.7 | 85° | 21.5 | 10.8 | 4.6 | 3.1 | 1.5 | 0.0 | 3.1 | 1.5 | 0.0 | 0.0 |
| 9.2 | 87.5° | 7.7 | 1.5 | 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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|--------|
| 180° |
| 3041.4 |
| 2841.5 |
| 2378.7 |
| 1772.9 |
| 1196.3 |
| 968.7 |
| 944.1 |
| 930.3 |
| 908.7 |
| 887.2 |
| 873.4 |
| 862.6 |
| 851.8 |
| 841.1 |
| 833.4 |
| 824.2 |
| 795.0 |
| 730.4 |
| 645.8 |
| 558.2 |
| 479.7 |
| 410.5 |
| 353.7 |
| 299.8 |
| 250.6 |
| 196.8 |
| 150.7 |
| 127.6 |
| 104.6 |
| 80.0 |
| 50.7 |
| 24.6 |
| 4.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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