

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: P940652

Luminaire Tested: **GALN-SB3D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26317 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

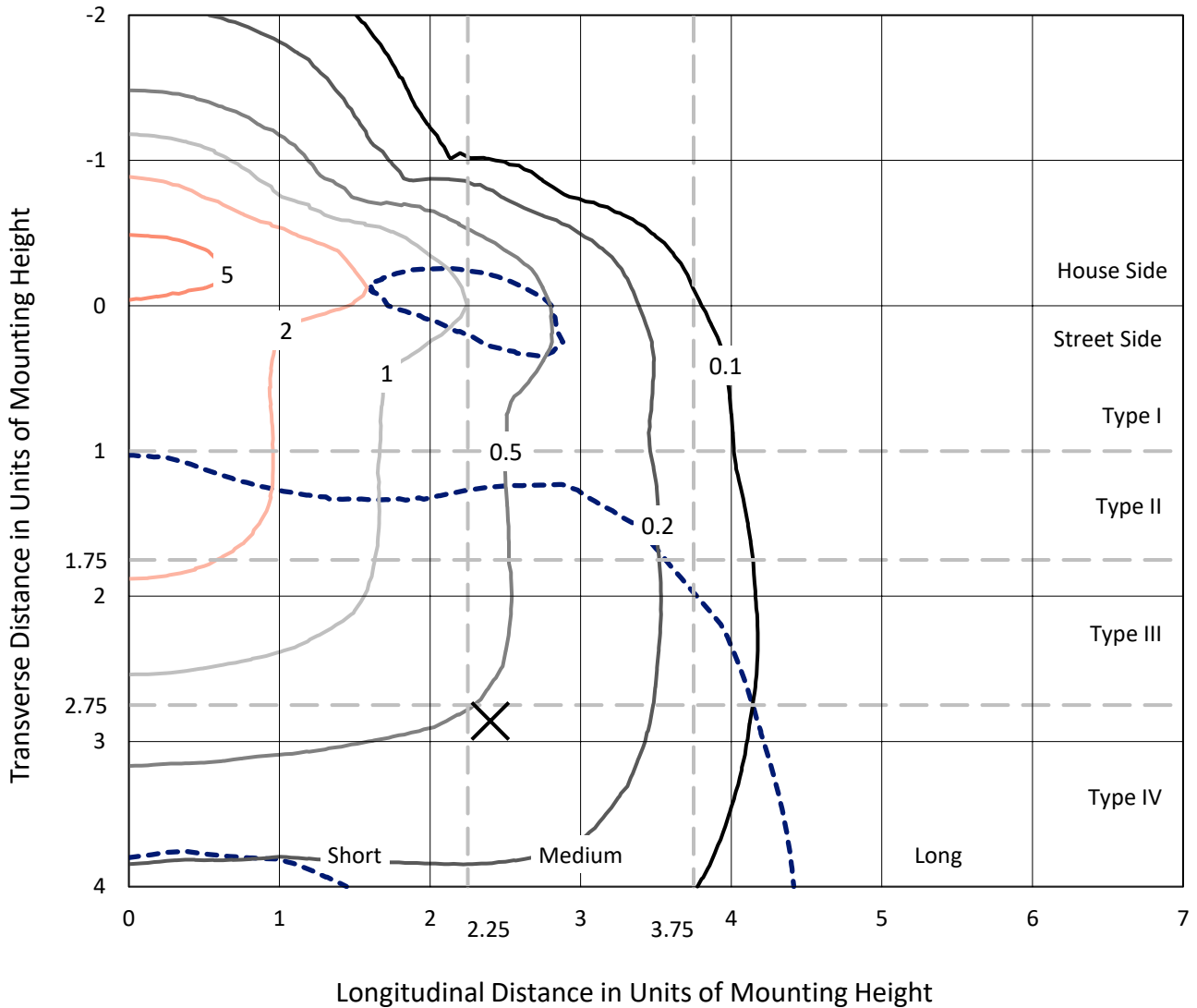
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

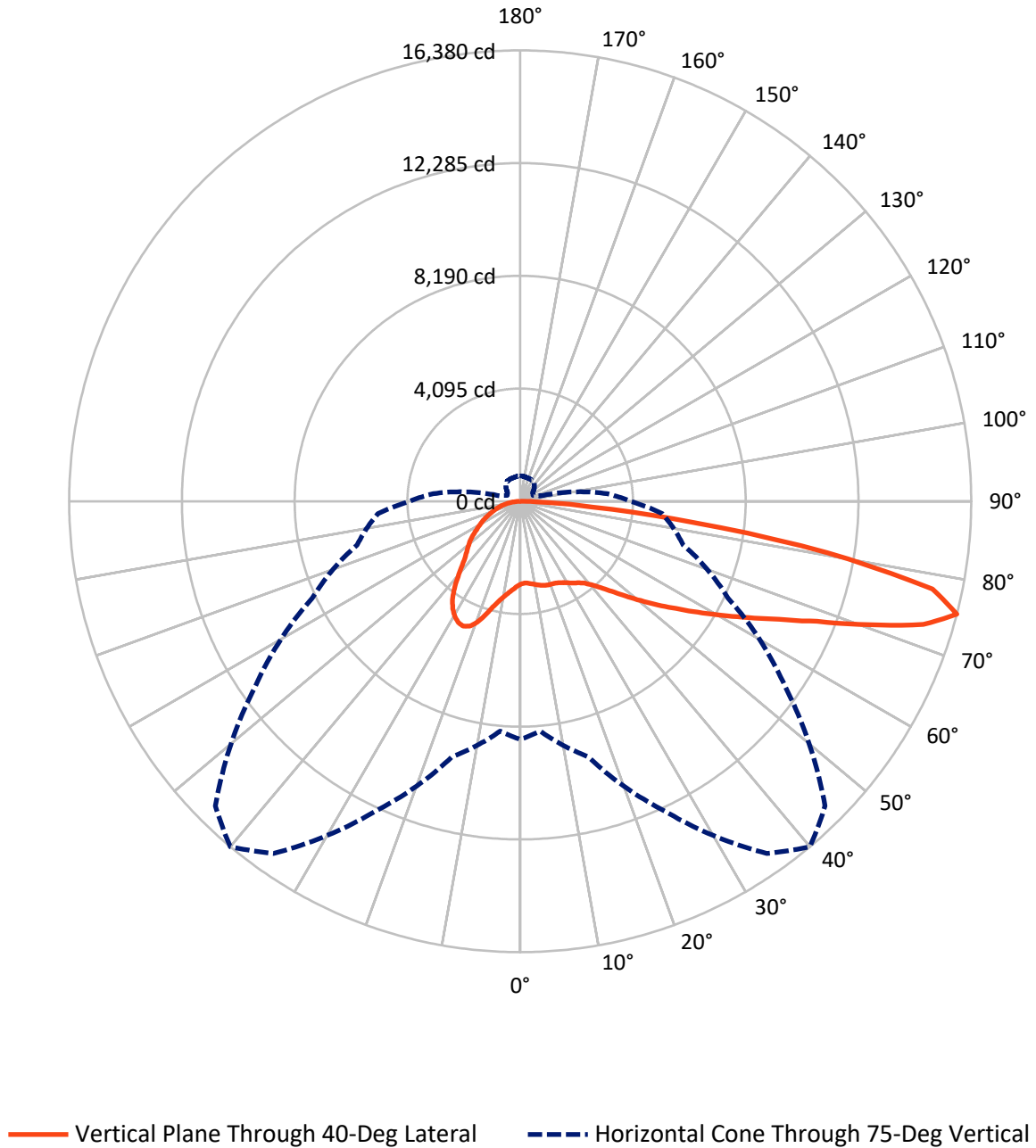
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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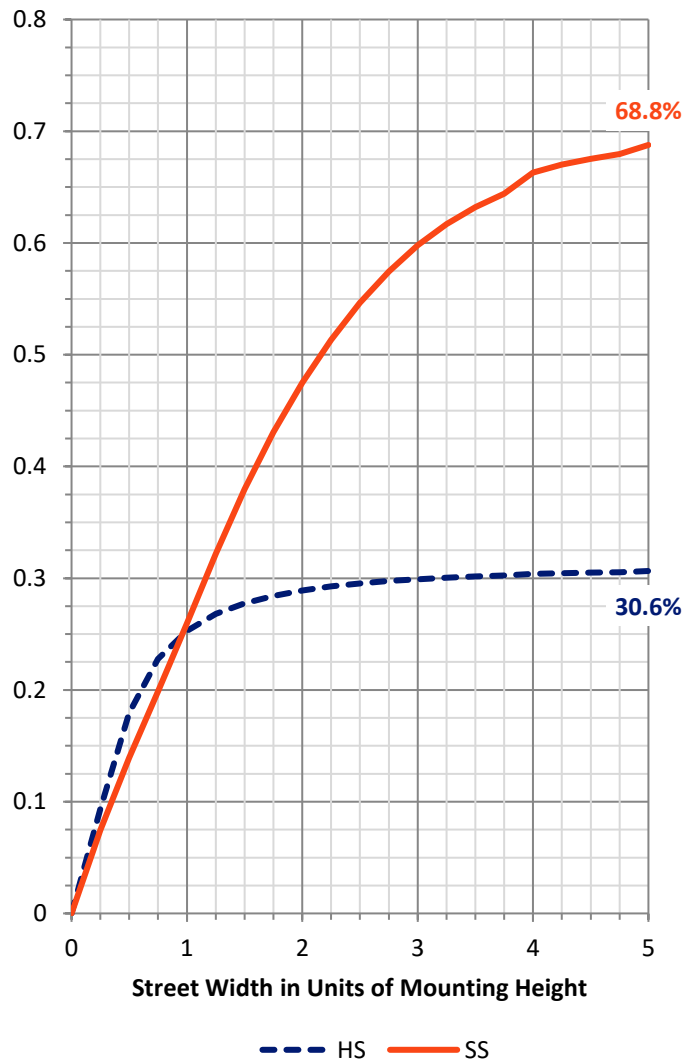
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8153.9 | 0.0 | 8153.9 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 18163.1 | 0.0 | 18163.1 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 26317.0 | 0.0 | 26317.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 300.4 | 1.1 |
| 10°-20° | 1008.6 | 3.8 |
| 20°-30° | 1841.6 | 7.0 |
| 30°-40° | 2611.8 | 9.9 |
| 40°-50° | 3526.7 | 13.4 |
| 50°-60° | 4744.4 | 18.0 |
| 60°-70° | 6021.8 | 22.9 |
| 70°-80° | 5465.1 | 20.8 |
| 80°-90° | 796.6 | 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° | 26317.0 | 100.0 |
| 0°-180° | 26317.0 | 100.0 |

Coefficient of Utilization



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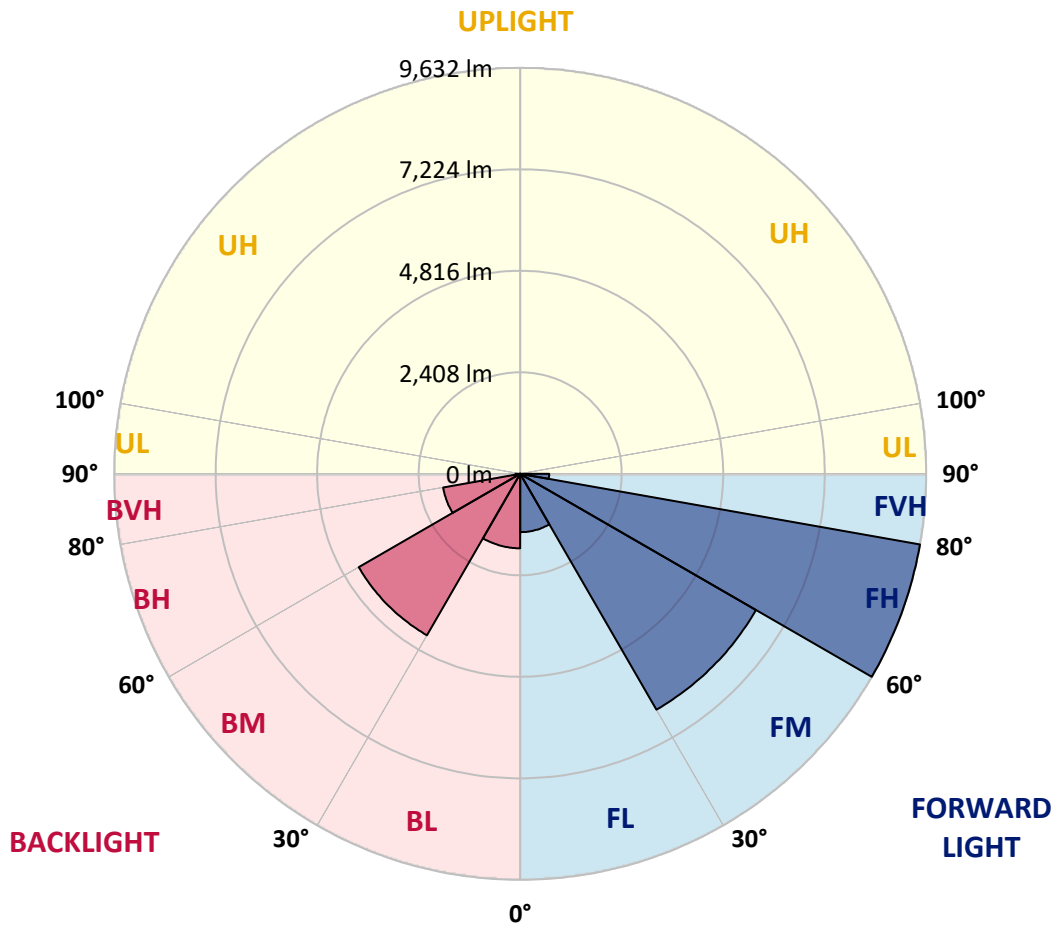
CATALOG NUMBER: GALN-SB3D-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1384.3 | 5.3 | | | |
| FM (30°-60°) | 6460.2 | 24.5 | | | |
| FH (60°-80°) | 9631.6 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 687.0 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1766.2 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4422.7 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1855.3 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 109.7 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 |
| 2.5° | 2963.3 | 2980.1 | 2975.9 | 2970.3 | 2970.3 | 2971.7 | 2970.3 | 2980.1 | 2989.8 | 2999.6 |
| 5° | 2994.0 | 3010.8 | 3002.4 | 2995.4 | 2989.8 | 2988.4 | 2984.3 | 2982.9 | 2988.4 | 3001.0 |
| 7.5° | 3054.1 | 3070.8 | 3058.2 | 3045.7 | 3034.5 | 3028.9 | 3023.3 | 3015.0 | 3010.8 | 3017.8 |
| 10° | 3121.0 | 3137.8 | 3122.4 | 3100.1 | 3082.0 | 3075.0 | 3069.4 | 3061.0 | 3055.4 | 3059.6 |
| 12.5° | 3188.0 | 3204.8 | 3183.9 | 3153.2 | 3129.4 | 3125.2 | 3118.3 | 3115.5 | 3114.1 | 3112.7 |
| 15° | 3250.9 | 3264.8 | 3238.3 | 3202.0 | 3176.9 | 3169.9 | 3162.9 | 3167.1 | 3174.1 | 3182.5 |
| 17.5° | 3299.7 | 3313.7 | 3274.6 | 3227.1 | 3203.4 | 3200.6 | 3196.4 | 3210.4 | 3229.9 | 3250.9 |
| 20° | 3344.4 | 3358.3 | 3308.1 | 3243.9 | 3216.0 | 3216.0 | 3217.4 | 3246.7 | 3274.6 | 3305.3 |
| 22.5° | 3407.2 | 3418.4 | 3356.9 | 3269.0 | 3228.5 | 3231.3 | 3242.5 | 3271.8 | 3306.7 | 3348.6 |
| 25° | 3500.7 | 3509.1 | 3433.7 | 3316.5 | 3270.4 | 3278.8 | 3288.5 | 3302.5 | 3336.0 | 3384.9 |
| 27.5° | 3651.5 | 3658.4 | 3559.3 | 3400.2 | 3330.4 | 3344.4 | 3358.3 | 3348.6 | 3363.9 | 3405.8 |
| 30° | 3863.6 | 3867.8 | 3742.2 | 3531.4 | 3432.3 | 3439.3 | 3442.1 | 3401.6 | 3372.3 | 3405.8 |
| 32.5° | 4114.9 | 4113.5 | 3964.1 | 3690.5 | 3548.2 | 3541.2 | 3517.5 | 3437.9 | 3369.5 | 3398.8 |
| 35° | 4504.3 | 4489.0 | 4296.3 | 3913.9 | 3679.4 | 3636.1 | 3580.3 | 3478.4 | 3383.5 | 3391.8 |
| 37.5° | 5149.2 | 5101.7 | 4835.1 | 4279.6 | 3874.8 | 3764.5 | 3682.2 | 3544.0 | 3414.2 | 3389.0 |
| 40° | 5876.4 | 5816.4 | 5523.3 | 4780.7 | 4167.9 | 3990.6 | 3858.0 | 3637.5 | 3464.4 | 3401.6 |
| 42.5° | 6739.0 | 6653.9 | 6338.4 | 5371.1 | 4539.2 | 4282.4 | 4082.8 | 3756.1 | 3538.4 | 3442.1 |
| 45° | 7798.4 | 7685.4 | 7238.7 | 6036.9 | 5006.8 | 4664.8 | 4398.2 | 3936.2 | 3651.5 | 3520.3 |
| 47.5° | 8869.0 | 8896.9 | 8261.8 | 6799.0 | 5567.9 | 5136.6 | 4793.2 | 4207.0 | 3816.2 | 3645.9 |
| 50° | 10006.6 | 10026.2 | 9279.4 | 7643.5 | 6204.4 | 5669.8 | 5237.1 | 4509.9 | 4045.1 | 3824.5 |
| 52.5° | 10894.4 | 10897.2 | 10203.4 | 8527.1 | 6867.4 | 6256.1 | 5715.9 | 4856.1 | 4310.3 | 4061.8 |
| 55° | 11449.9 | 11442.9 | 10851.1 | 9363.1 | 7629.5 | 6871.6 | 6246.3 | 5249.7 | 4634.1 | 4341.0 |
| 57.5° | 11853.3 | 11832.4 | 11297.8 | 10082.0 | 8441.9 | 7598.8 | 6846.5 | 5696.3 | 5016.6 | 4673.2 |
| 60° | 12006.8 | 11994.3 | 11600.6 | 10703.1 | 9296.1 | 8402.8 | 7538.8 | 6196.0 | 5450.7 | 5065.4 |
| 62.5° | 12065.5 | 12089.2 | 11898.0 | 11304.7 | 10210.4 | 9293.4 | 8299.5 | 6793.4 | 5939.2 | 5509.3 |
| 65° | 12272.0 | 12315.3 | 12276.2 | 12092.0 | 11243.3 | 10336.0 | 9308.7 | 7503.9 | 6472.4 | 5985.3 |
| 67.5° | 12681.0 | 12724.3 | 12741.0 | 13034.2 | 12505.1 | 11635.5 | 10567.7 | 8388.9 | 7096.3 | 6479.4 |
| 70° | 12671.2 | 12658.7 | 12954.6 | 13783.7 | 14085.2 | 13434.8 | 12265.1 | 9477.6 | 7840.3 | 6889.8 |
| 72.5° | 11533.6 | 11433.1 | 12132.5 | 13775.3 | 15400.1 | 15313.5 | 14337.8 | 10881.8 | 8482.4 | 6940.0 |
| 75° | 8652.7 | 8384.7 | 9620.0 | 12414.4 | 15619.2 | 16379.9 | 15655.5 | 11752.8 | 8330.2 | 6131.8 |
| 77.5° | 3700.3 | 3430.9 | 4886.8 | 9190.1 | 13979.1 | 15312.1 | 14446.7 | 10253.7 | 6649.7 | 4054.9 |
| 80° | 968.7 | 967.3 | 1476.8 | 4166.5 | 9506.9 | 11307.5 | 9920.1 | 6621.8 | 3799.4 | 1448.9 |
| 82.5° | 400.6 | 390.8 | 543.0 | 1620.5 | 4645.3 | 6345.4 | 5178.5 | 2953.6 | 1372.1 | 392.2 |
| 85° | 149.4 | 148.0 | 263.8 | 559.7 | 1638.7 | 2617.2 | 1894.1 | 755.1 | 342.0 | 191.2 |
| 87.5° | 41.9 | 40.5 | 57.2 | 194.0 | 399.2 | 605.8 | 323.8 | 124.2 | 96.3 | 75.4 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3009.4 | 0° | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 | 3009.4 |
| 3015.0 | 2.5° | 3019.2 | 3026.1 | 3038.7 | 3048.5 | 3061.0 | 3075.0 | 3094.5 | 3107.1 | 3119.7 | 3128.0 |
| 3021.9 | 5° | 3031.7 | 3047.1 | 3079.2 | 3111.3 | 3149.0 | 3183.9 | 3224.3 | 3253.7 | 3277.4 | 3284.4 |
| 3047.1 | 7.5° | 3059.6 | 3084.8 | 3139.2 | 3193.6 | 3253.7 | 3310.9 | 3369.5 | 3419.8 | 3460.2 | 3475.6 |
| 3091.7 | 10° | 3108.5 | 3142.0 | 3218.8 | 3295.5 | 3375.1 | 3463.0 | 3538.4 | 3611.0 | 3668.2 | 3691.9 |
| 3144.8 | 12.5° | 3169.9 | 3211.8 | 3312.3 | 3418.4 | 3528.6 | 3650.1 | 3747.8 | 3837.1 | 3908.3 | 3940.4 |
| 3218.8 | 15° | 3249.5 | 3303.9 | 3432.3 | 3574.7 | 3736.6 | 3905.5 | 4029.7 | 4128.8 | 4208.4 | 4247.5 |
| 3295.5 | 17.5° | 3336.0 | 3408.6 | 3570.5 | 3785.5 | 4017.2 | 4239.1 | 4384.3 | 4456.8 | 4539.2 | 4576.9 |
| 3366.7 | 20° | 3419.8 | 3509.1 | 3740.8 | 4053.5 | 4361.9 | 4597.8 | 4715.1 | 4734.6 | 4740.2 | 4744.4 |
| 3433.7 | 22.5° | 3506.3 | 3626.3 | 3954.4 | 4391.2 | 4722.1 | 4885.4 | 4902.1 | 4818.4 | 4701.1 | 4646.7 |
| 3499.3 | 25° | 3601.2 | 3760.3 | 4233.5 | 4763.9 | 5031.9 | 5051.5 | 4923.1 | 4719.3 | 4497.3 | 4395.4 |
| 3552.4 | 27.5° | 3693.3 | 3915.3 | 4568.5 | 5119.9 | 5255.3 | 5083.6 | 4807.2 | 4518.3 | 4250.3 | 4142.8 |
| 3590.0 | 30° | 3785.5 | 4092.5 | 4938.4 | 5431.1 | 5357.2 | 5004.0 | 4624.3 | 4301.9 | 4032.5 | 3919.5 |
| 3623.5 | 32.5° | 3879.0 | 4299.1 | 5364.1 | 5655.9 | 5339.0 | 4835.1 | 4396.8 | 4059.0 | 3821.8 | 3703.1 |
| 3652.9 | 35° | 3985.1 | 4553.2 | 5767.5 | 5778.7 | 5217.6 | 4586.7 | 4096.7 | 3768.7 | 3562.1 | 3467.2 |
| 3687.8 | 37.5° | 4123.2 | 4875.6 | 6123.5 | 5809.4 | 5005.4 | 4222.4 | 3724.0 | 3425.3 | 3255.0 | 3211.8 |
| 3739.4 | 40° | 4294.9 | 5263.6 | 6395.6 | 5760.5 | 4691.3 | 3779.9 | 3316.5 | 3077.8 | 2981.5 | 2991.2 |
| 3809.2 | 42.5° | 4518.3 | 5697.7 | 6586.9 | 5634.9 | 4254.5 | 3323.4 | 2959.1 | 2853.1 | 2899.1 | 2938.2 |
| 3913.9 | 45° | 4808.6 | 6148.6 | 6705.5 | 5421.4 | 3760.3 | 2936.8 | 2748.4 | 2773.5 | 2808.4 | 2812.6 |
| 4082.8 | 47.5° | 5179.9 | 6605.0 | 6783.7 | 5098.9 | 3256.4 | 2664.6 | 2614.4 | 2620.0 | 2613.0 | 2583.7 |
| 4335.4 | 50° | 5643.3 | 7048.9 | 6853.5 | 4671.8 | 2827.9 | 2494.3 | 2427.3 | 2407.8 | 2311.5 | 2216.6 |
| 4671.8 | 52.5° | 6170.9 | 7456.5 | 6882.8 | 4141.4 | 2494.3 | 2352.0 | 2243.1 | 2120.2 | 1940.2 | 1910.9 |
| 5094.7 | 55° | 6757.2 | 7833.3 | 6807.4 | 3489.5 | 2213.8 | 2169.1 | 2004.4 | 1856.4 | 1836.9 | 1811.8 |
| 5651.7 | 57.5° | 7457.9 | 8239.5 | 6653.9 | 2762.3 | 1926.2 | 1955.5 | 1795.0 | 1811.8 | 1776.9 | 1737.8 |
| 6367.7 | 60° | 8224.2 | 8659.7 | 6384.5 | 2099.3 | 1628.9 | 1688.9 | 1740.6 | 1739.2 | 1729.4 | 1697.3 |
| 7122.9 | 62.5° | 8913.7 | 8936.0 | 5854.1 | 1608.0 | 1367.9 | 1482.4 | 1623.3 | 1621.9 | 1613.6 | 1595.4 |
| 7911.5 | 65° | 9324.1 | 8894.2 | 4969.1 | 1266.0 | 1152.9 | 1312.1 | 1464.2 | 1475.4 | 1476.8 | 1475.4 |
| 8504.7 | 67.5° | 9251.5 | 8404.2 | 3754.8 | 1007.8 | 975.7 | 1139.0 | 1306.5 | 1321.8 | 1333.0 | 1335.8 |
| 8580.1 | 70° | 8430.7 | 7328.0 | 2448.3 | 804.0 | 817.9 | 986.8 | 1157.1 | 1172.5 | 1182.3 | 1193.4 |
| 7445.3 | 72.5° | 6571.5 | 5387.9 | 1401.4 | 650.5 | 679.8 | 855.6 | 1009.2 | 1027.3 | 1032.9 | 1053.8 |
| 5181.3 | 75° | 4004.6 | 3168.5 | 756.5 | 512.3 | 558.3 | 731.4 | 862.6 | 883.6 | 893.3 | 918.4 |
| 2544.6 | 77.5° | 1903.9 | 1372.1 | 431.3 | 399.2 | 449.5 | 597.4 | 728.6 | 752.3 | 725.8 | 739.8 |
| 702.1 | 80° | 643.5 | 509.5 | 272.2 | 304.3 | 343.4 | 466.2 | 583.5 | 607.2 | 551.3 | 548.6 |
| 233.1 | 82.5° | 224.7 | 206.6 | 173.1 | 202.4 | 221.9 | 333.6 | 441.1 | 471.8 | 410.4 | 409.0 |
| 104.7 | 85° | 87.9 | 83.7 | 96.3 | 110.3 | 132.6 | 205.2 | 290.3 | 305.7 | 252.6 | 203.8 |
| 30.7 | 87.5° | 18.1 | 19.5 | 23.7 | 25.1 | 40.5 | 71.2 | 104.7 | 128.4 | 101.9 | 86.5 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 3009.4 |
| 3122.4 |
| 3287.2 |
| 3477.0 |
| 3693.3 |
| 3940.4 |
| 4244.7 |
| 4575.5 |
| 4755.6 |
| 4662.0 |
| 4410.8 |
| 4155.4 |
| 3932.0 |
| 3718.5 |
| 3488.1 |
| 3242.5 |
| 3024.7 |
| 2974.5 |
| 2840.5 |
| 2606.0 |
| 2229.1 |
| 1920.6 |
| 1816.0 |
| 1730.8 |
| 1686.1 |
| 1588.4 |
| 1475.4 |
| 1338.6 |
| 1199.0 |
| 1062.2 |
| 921.2 |
| 728.6 |
| 543.0 |
| 389.4 |
| 201.0 |
| 79.6 |
| 0.0 |

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