

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: P949007

Luminaire Tested: **GALN-SB3D-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22496 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

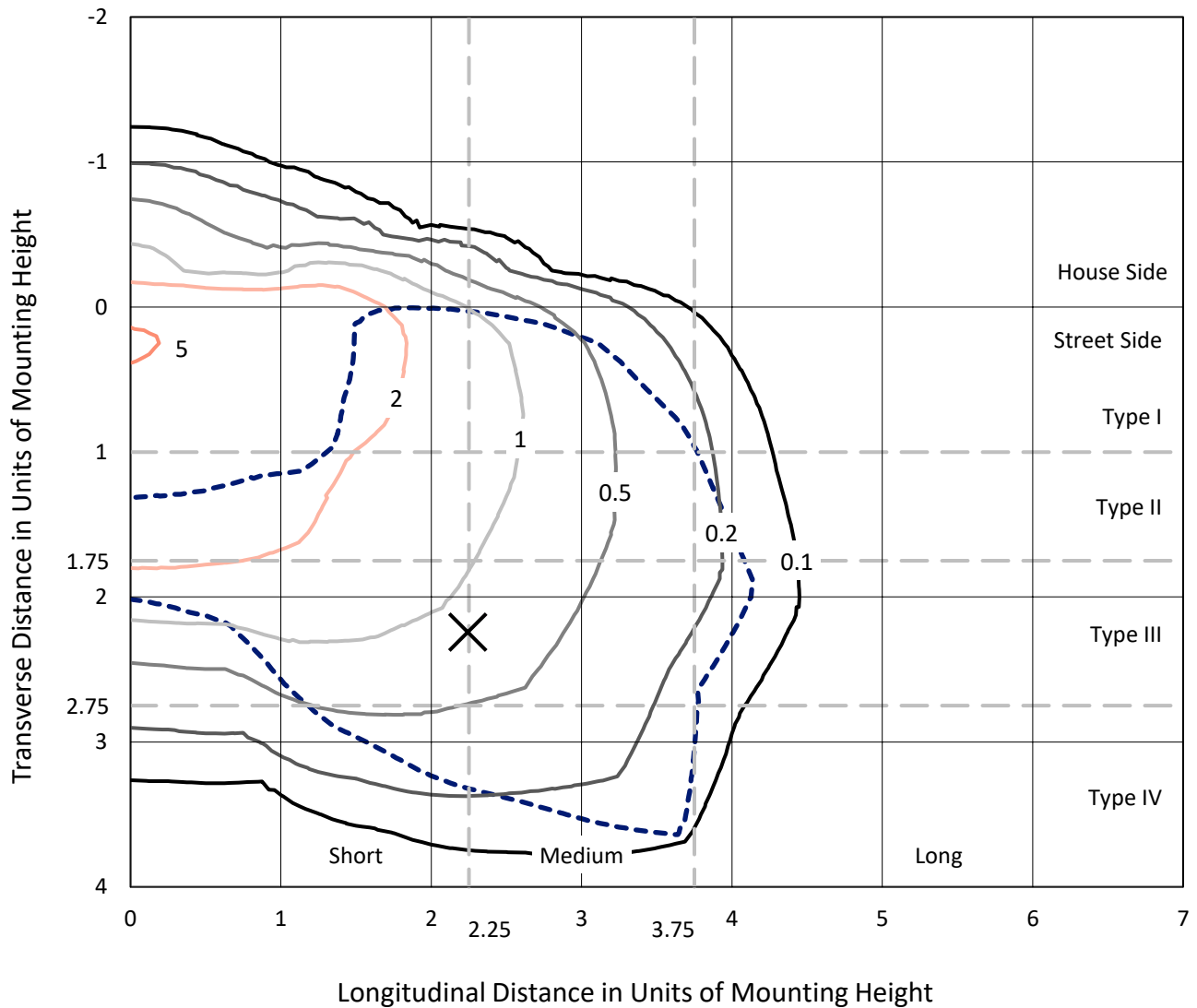
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

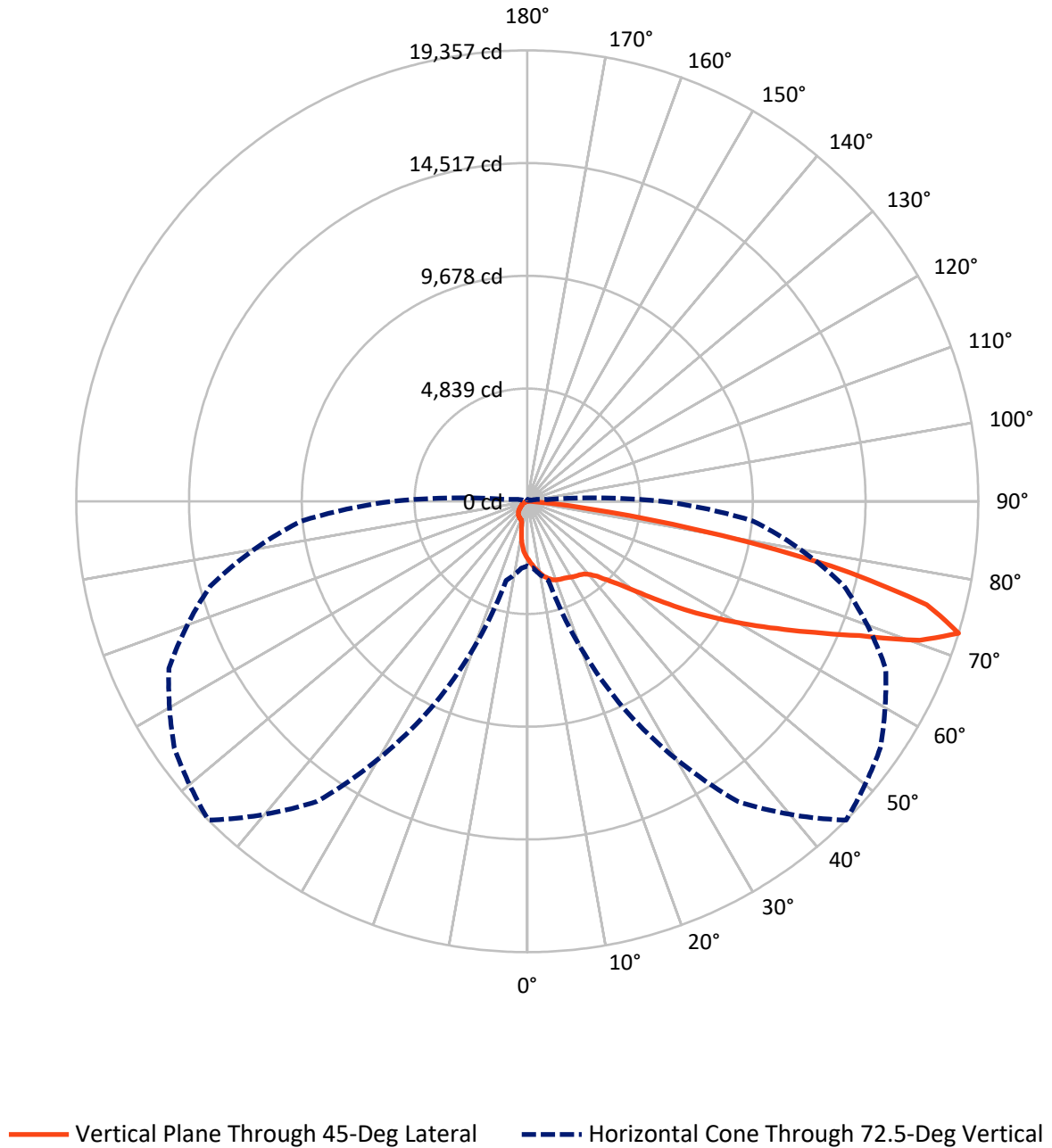
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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 | 2363.7 | 0.0 | 2363.7 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 20132.3 | 0.0 | 20132.3 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 22496.0 | 0.0 | 22496.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.2 | 1.0 |
| 10°-20° | 678.6 | 3.0 |
| 20°-30° | 1114.4 | 5.0 |
| 30°-40° | 1580.5 | 7.0 |
| 40°-50° | 2612.4 | 11.6 |
| 50°-60° | 4692.9 | 20.9 |
| 60°-70° | 6516.4 | 29.0 |
| 70°-80° | 4726.8 | 21.0 |
| 80°-90° | 341.7 | 1.5 |
| 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° | 22496.0 | 100.0 |
| 0°-180° | 22496.0 | 100.0 |



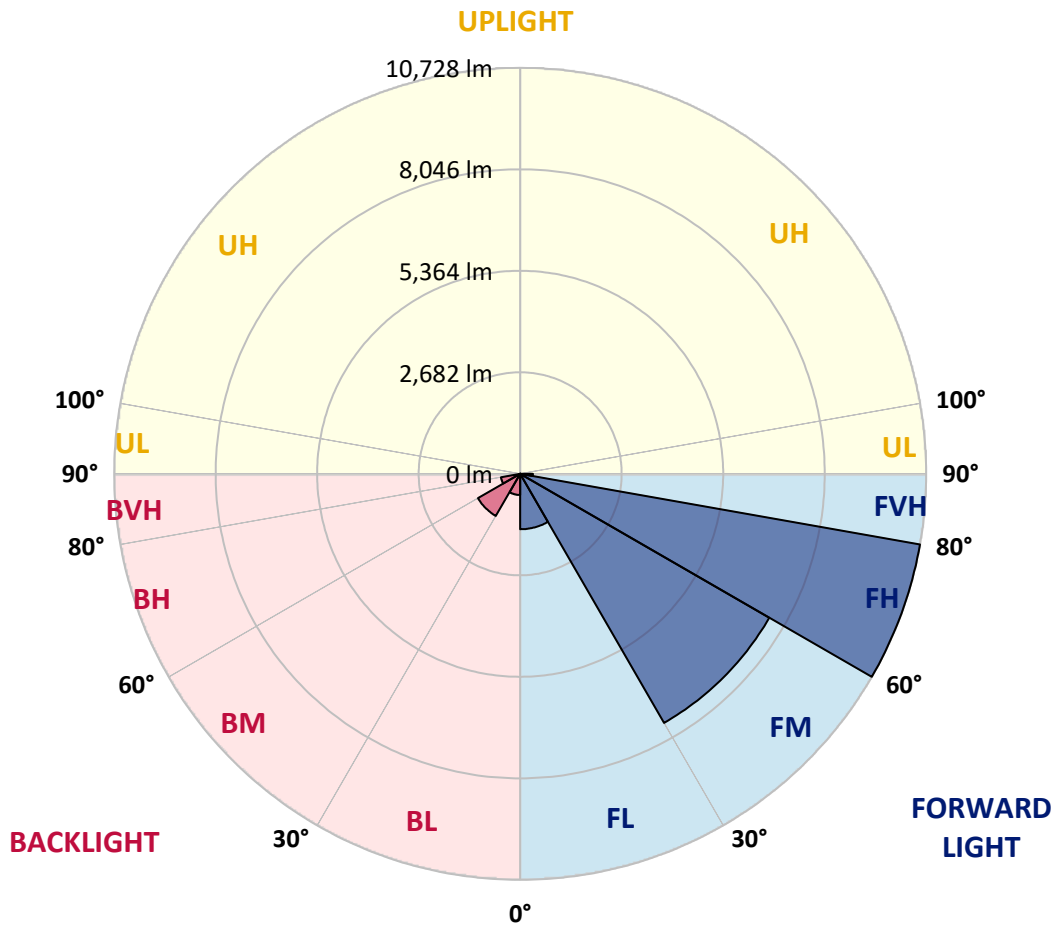
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1465.4 | 6.5 | | | |
| FM (30°-60°) | 7600.3 | 33.8 | | | |
| FH (60°-80°) | 10727.7 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 338.9 | 1.5 | | | G3/500 |
| BL (0°-30°) | 559.9 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1285.5 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 515.4 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.9 | 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° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 |
| 2.5° | 2691.7 | 2696.3 | 2693.3 | 2674.8 | 2644.1 | 2627.2 | 2618.0 | 2587.3 | 2567.4 | 2532.0 |
| 5° | 2939.0 | 2957.4 | 2946.6 | 2909.8 | 2851.4 | 2810.0 | 2797.7 | 2734.7 | 2677.9 | 2611.9 |
| 7.5° | 3201.5 | 3210.7 | 3190.8 | 3143.2 | 3064.9 | 2994.2 | 2983.5 | 2896.0 | 2805.4 | 2704.0 |
| 10° | 3428.8 | 3439.5 | 3408.8 | 3339.7 | 3250.7 | 3163.1 | 3147.8 | 3051.0 | 2943.6 | 2819.2 |
| 12.5° | 3619.2 | 3629.9 | 3590.0 | 3507.1 | 3408.8 | 3318.2 | 3302.9 | 3201.5 | 3083.3 | 2945.1 |
| 15° | 3763.5 | 3783.5 | 3729.7 | 3640.7 | 3534.7 | 3444.1 | 3436.5 | 3336.7 | 3221.5 | 3067.9 |
| 17.5° | 3848.0 | 3867.9 | 3817.3 | 3709.8 | 3619.2 | 3542.4 | 3533.2 | 3450.3 | 3342.8 | 3195.4 |
| 20° | 3861.8 | 3880.2 | 3826.5 | 3732.8 | 3657.6 | 3596.2 | 3591.5 | 3531.7 | 3453.3 | 3312.1 |
| 22.5° | 3820.3 | 3843.4 | 3794.2 | 3719.0 | 3666.8 | 3634.5 | 3628.4 | 3594.6 | 3550.1 | 3430.3 |
| 25° | 3777.3 | 3795.8 | 3758.9 | 3692.9 | 3665.2 | 3662.2 | 3666.8 | 3660.6 | 3651.4 | 3550.1 |
| 27.5° | 3774.3 | 3794.2 | 3752.8 | 3689.8 | 3674.5 | 3706.7 | 3711.3 | 3740.5 | 3748.2 | 3659.1 |
| 30° | 3800.4 | 3814.2 | 3774.3 | 3708.2 | 3700.6 | 3774.3 | 3775.8 | 3828.0 | 3840.3 | 3751.2 |
| 32.5° | 3857.2 | 3872.5 | 3832.6 | 3735.9 | 3725.1 | 3828.0 | 3832.6 | 3901.7 | 3921.7 | 3849.5 |
| 35° | 3990.8 | 4009.2 | 3963.1 | 3812.7 | 3774.3 | 3878.7 | 3892.5 | 3973.9 | 4013.8 | 3953.9 |
| 37.5° | 4324.0 | 4270.2 | 4207.3 | 3967.7 | 3886.4 | 3958.5 | 3981.6 | 4076.8 | 4147.4 | 4078.3 |
| 40° | 5151.6 | 4982.7 | 4786.2 | 4231.9 | 4082.9 | 4129.0 | 4147.4 | 4242.6 | 4339.3 | 4271.8 |
| 42.5° | 6393.8 | 6194.2 | 5877.9 | 4839.9 | 4379.3 | 4402.3 | 4416.1 | 4499.0 | 4635.7 | 4581.9 |
| 45° | 7500.9 | 7428.8 | 7106.3 | 5877.9 | 4933.6 | 4819.9 | 4836.8 | 4879.8 | 5081.0 | 5061.0 |
| 47.5° | 8351.6 | 8310.2 | 8061.4 | 7069.5 | 5870.2 | 5331.3 | 5378.9 | 5398.8 | 5689.0 | 5759.7 |
| 50° | 9005.7 | 8990.4 | 8767.7 | 8129.0 | 7094.0 | 6085.2 | 6102.1 | 6059.1 | 6493.6 | 6668.7 |
| 52.5° | 9623.0 | 9675.2 | 9510.9 | 9113.2 | 8400.7 | 7072.5 | 7069.5 | 6866.8 | 7453.3 | 7717.4 |
| 55° | 10180.4 | 10198.8 | 10215.7 | 10117.4 | 9715.1 | 8196.5 | 8167.3 | 7835.7 | 8566.6 | 8839.9 |
| 57.5° | 10704.0 | 10711.7 | 10862.2 | 11063.3 | 11083.3 | 9403.4 | 9349.7 | 8952.0 | 9782.7 | 9977.7 |
| 60° | 11055.6 | 11090.9 | 11408.8 | 11967.7 | 12211.9 | 10648.7 | 10619.5 | 10214.2 | 11020.3 | 11110.9 |
| 62.5° | 10548.9 | 10763.9 | 11565.4 | 12674.1 | 13277.5 | 12029.1 | 12015.3 | 11634.5 | 12322.4 | 12248.7 |
| 65° | 8538.9 | 8902.9 | 10312.4 | 13151.6 | 14323.2 | 13570.8 | 13590.7 | 13185.4 | 13659.8 | 13420.3 |
| 67.5° | 5973.1 | 6357.0 | 8024.5 | 13190.0 | 15491.7 | 15381.1 | 15496.3 | 14860.6 | 15080.2 | 14542.8 |
| 70° | 4130.5 | 4328.6 | 5414.2 | 12363.9 | 16402.3 | 17874.8 | 17871.7 | 16918.2 | 16492.9 | 15054.1 |
| 72.5° | 2777.7 | 2880.6 | 3516.3 | 9808.8 | 15732.8 | 19356.6 | 19267.5 | 18490.5 | 16968.9 | 14079.0 |
| 75° | 1171.6 | 1246.8 | 1627.6 | 5512.5 | 12446.8 | 17709.0 | 17467.9 | 16340.8 | 15077.1 | 11086.3 |
| 77.5° | 371.6 | 403.8 | 641.8 | 1973.1 | 6856.0 | 13311.3 | 13056.4 | 10205.0 | 10105.2 | 5561.6 |
| 80° | 176.6 | 205.8 | 360.8 | 792.3 | 2697.9 | 7239.9 | 7204.6 | 4629.5 | 4347.0 | 1501.7 |
| 82.5° | 76.8 | 90.6 | 199.6 | 423.8 | 1206.9 | 2582.7 | 2634.9 | 1575.4 | 1303.6 | 569.7 |
| 85° | 24.6 | 32.2 | 92.1 | 195.0 | 509.8 | 641.8 | 634.2 | 374.7 | 525.1 | 310.2 |
| 87.5° | 0.0 | 0.0 | 30.7 | 44.5 | 52.2 | 36.9 | 41.5 | 32.2 | 145.9 | 86.0 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2464.5 | 0° | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 | 2464.5 |
| 2495.2 | 2.5° | 2476.8 | 2452.2 | 2409.2 | 2369.3 | 2334.0 | 2298.7 | 2277.2 | 2246.4 | 2243.4 | 2243.4 |
| 2535.1 | 5° | 2493.7 | 2453.7 | 2377.0 | 2295.6 | 2201.9 | 2112.9 | 2023.8 | 1937.8 | 1910.2 | 1890.2 |
| 2599.6 | 7.5° | 2542.8 | 2479.8 | 2358.5 | 2203.4 | 2025.3 | 1830.3 | 1693.7 | 1546.3 | 1489.4 | 1458.7 |
| 2685.6 | 10° | 2613.4 | 2527.4 | 2343.2 | 2071.4 | 1782.7 | 1517.1 | 1322.1 | 1162.4 | 1101.0 | 1074.9 |
| 2779.3 | 12.5° | 2691.7 | 2585.8 | 2315.5 | 1907.1 | 1517.1 | 1199.2 | 1008.8 | 935.1 | 925.9 | 925.9 |
| 2891.4 | 15° | 2785.4 | 2656.4 | 2267.9 | 1713.6 | 1239.2 | 948.9 | 881.4 | 884.5 | 893.7 | 899.8 |
| 3000.4 | 17.5° | 2882.1 | 2731.7 | 2192.7 | 1497.1 | 993.5 | 853.7 | 855.3 | 859.9 | 867.6 | 873.7 |
| 3118.6 | 20° | 2986.6 | 2806.9 | 2092.9 | 1266.8 | 852.2 | 826.1 | 830.7 | 835.3 | 841.5 | 844.5 |
| 3229.2 | 22.5° | 3098.6 | 2877.5 | 1974.7 | 1041.1 | 804.6 | 803.1 | 804.6 | 809.2 | 816.9 | 816.9 |
| 3358.1 | 25° | 3218.4 | 2955.8 | 1839.5 | 876.8 | 780.0 | 780.0 | 783.1 | 786.2 | 792.3 | 792.3 |
| 3482.5 | 27.5° | 3341.3 | 3028.0 | 1696.7 | 790.8 | 758.5 | 757.0 | 757.0 | 761.6 | 764.7 | 766.2 |
| 3605.4 | 30° | 3476.4 | 3112.5 | 1553.9 | 772.4 | 741.6 | 734.0 | 729.4 | 732.4 | 735.5 | 737.0 |
| 3734.3 | 32.5° | 3614.6 | 3193.8 | 1426.5 | 780.0 | 724.8 | 710.9 | 695.6 | 692.5 | 692.5 | 698.7 |
| 3867.9 | 35° | 3768.1 | 3282.9 | 1328.2 | 806.1 | 715.5 | 677.2 | 652.6 | 638.8 | 640.3 | 649.5 |
| 4027.6 | 37.5° | 3952.4 | 3390.4 | 1256.0 | 829.2 | 709.4 | 638.8 | 598.8 | 582.0 | 571.2 | 582.0 |
| 4247.2 | 40° | 4193.5 | 3548.6 | 1203.8 | 847.6 | 701.7 | 594.2 | 540.5 | 512.9 | 492.9 | 499.0 |
| 4588.1 | 42.5° | 4548.2 | 3797.3 | 1183.9 | 849.1 | 684.8 | 542.0 | 480.6 | 443.8 | 414.6 | 416.1 |
| 5100.9 | 45° | 5045.7 | 4190.4 | 1286.8 | 829.2 | 648.0 | 485.2 | 417.7 | 368.5 | 350.1 | 345.5 |
| 5867.2 | 47.5° | 5727.4 | 4763.1 | 1524.8 | 787.7 | 594.2 | 429.9 | 356.2 | 314.8 | 301.0 | 293.3 |
| 6872.9 | 50° | 6641.1 | 5498.6 | 1788.9 | 741.6 | 540.5 | 377.7 | 305.6 | 279.5 | 270.2 | 262.6 |
| 8066.0 | 52.5° | 7700.6 | 6244.9 | 2005.4 | 695.6 | 486.8 | 331.7 | 273.3 | 258.0 | 250.3 | 244.1 |
| 9217.6 | 55° | 8672.5 | 6759.3 | 1993.1 | 646.4 | 434.5 | 294.8 | 250.3 | 241.1 | 231.9 | 225.7 |
| 10209.6 | 57.5° | 9277.5 | 6831.5 | 1643.0 | 592.7 | 374.7 | 265.6 | 228.8 | 222.6 | 211.9 | 204.2 |
| 11067.9 | 60° | 9555.4 | 6419.9 | 1151.6 | 522.1 | 314.8 | 238.0 | 205.8 | 202.7 | 188.9 | 178.1 |
| 11880.2 | 62.5° | 9606.1 | 5655.3 | 767.8 | 434.5 | 262.6 | 211.9 | 182.7 | 178.1 | 159.7 | 141.3 |
| 12540.5 | 65° | 9400.4 | 4562.0 | 531.3 | 339.3 | 224.2 | 184.3 | 156.6 | 147.4 | 127.4 | 109.0 |
| 12697.1 | 67.5° | 8749.3 | 3203.1 | 370.1 | 244.1 | 190.4 | 145.9 | 124.4 | 121.3 | 105.9 | 90.6 |
| 11898.6 | 70° | 7556.2 | 1825.7 | 247.2 | 182.7 | 150.5 | 99.8 | 98.3 | 101.3 | 86.0 | 73.7 |
| 9721.3 | 72.5° | 5793.5 | 835.3 | 153.6 | 133.6 | 102.9 | 67.6 | 78.3 | 79.8 | 66.0 | 55.3 |
| 6065.2 | 75° | 3410.4 | 357.8 | 96.7 | 86.0 | 52.2 | 44.5 | 56.8 | 58.3 | 44.5 | 35.3 |
| 2217.3 | 77.5° | 1160.8 | 135.1 | 61.4 | 50.7 | 26.1 | 24.6 | 36.9 | 36.9 | 24.6 | 13.8 |
| 445.3 | 80° | 264.1 | 50.7 | 30.7 | 20.0 | 12.3 | 10.7 | 12.3 | 10.7 | 6.1 | 1.5 |
| 136.7 | 82.5° | 75.2 | 20.0 | 12.3 | 7.7 | 4.6 | 4.6 | 1.5 | 0.0 | 0.0 | 0.0 |
| 47.6 | 85° | 21.5 | 9.2 | 3.1 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 16.9 | 87.5° | 9.2 | 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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| |
|-------------|
| <u>180°</u> |
| 2464.5 |
| 2251.0 |
| 1899.4 |
| 1463.3 |
| 1074.9 |
| 925.9 |
| 899.8 |
| 873.7 |
| 846.1 |
| 820.0 |
| 793.9 |
| 767.8 |
| 740.1 |
| 703.3 |
| 654.1 |
| 578.9 |
| 496.0 |
| 410.0 |
| 339.3 |
| 288.7 |
| 261.0 |
| 242.6 |
| 222.6 |
| 202.7 |
| 175.0 |
| 132.1 |
| 102.9 |
| 86.0 |
| 67.6 |
| 49.1 |
| 30.7 |
| 10.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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