

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: P941179

Luminaire Tested: **GALN-SB4C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26656 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

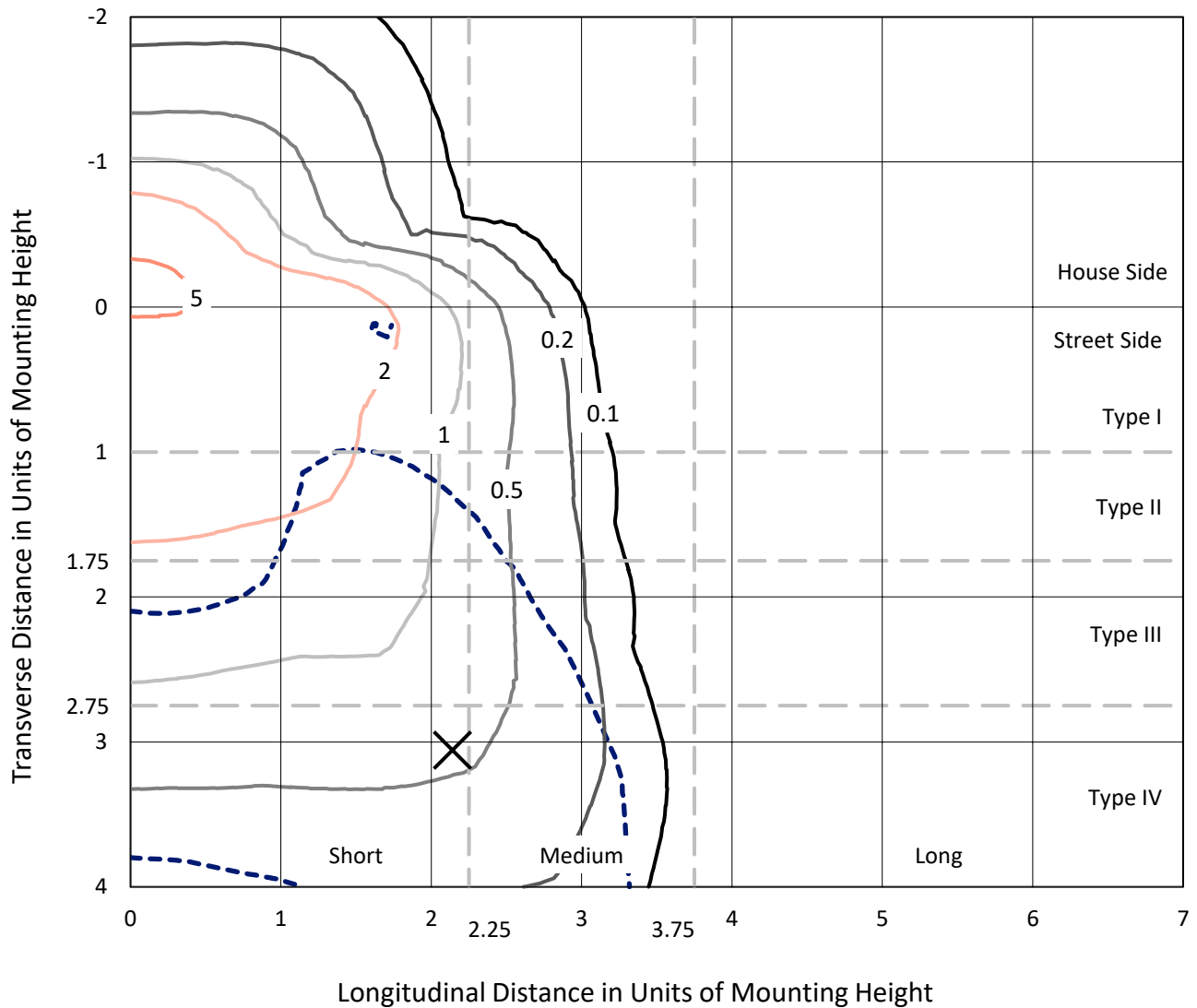
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

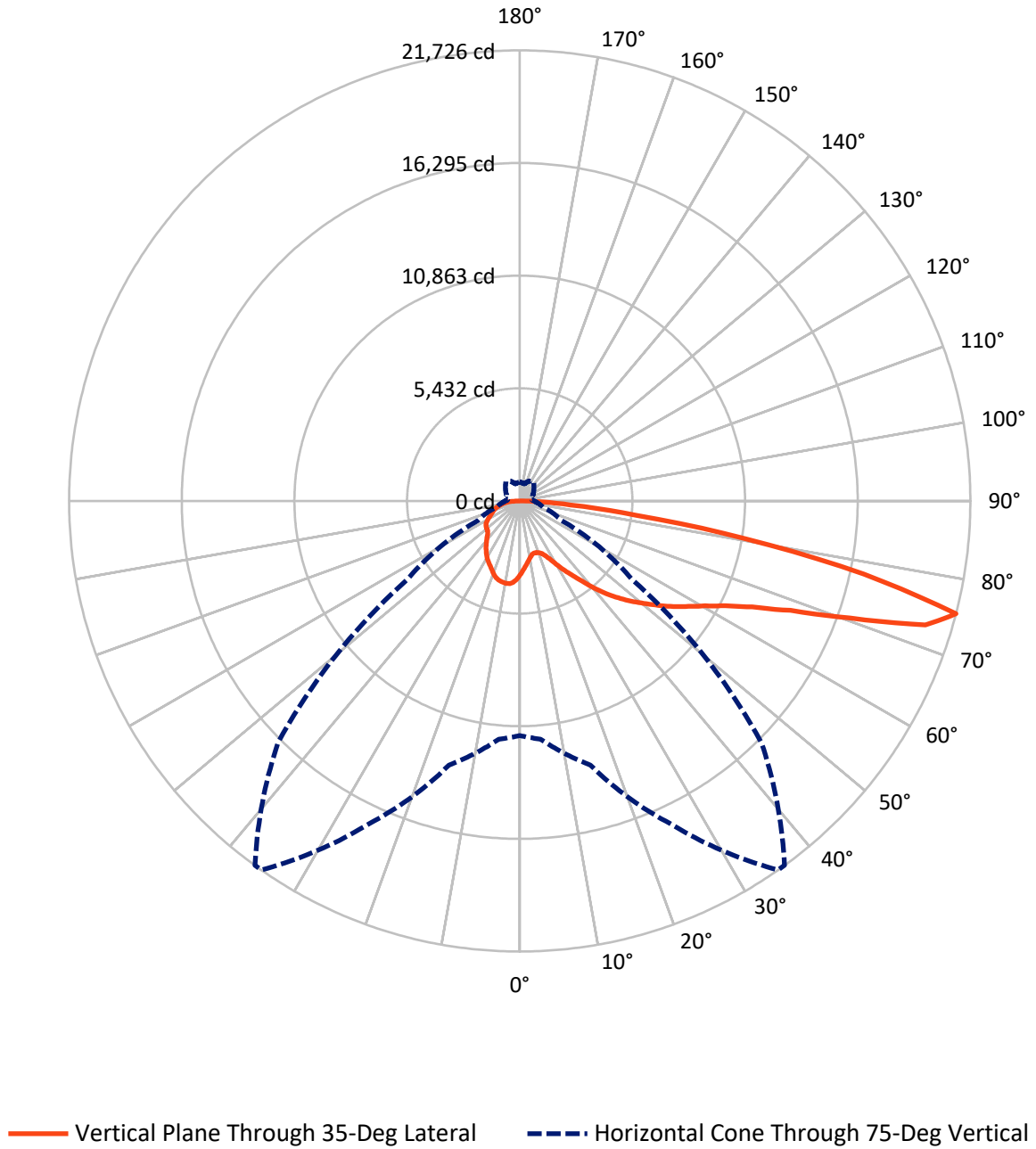
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 6343.5 | 0.0 | 6343.5 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 20312.5 | 0.0 | 20312.5 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 26656.0 | 0.0 | 26656.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 336.3 | 1.3 |
| 10°-20° | 970.1 | 3.6 |
| 20°-30° | 1629.0 | 6.1 |
| 30°-40° | 2531.7 | 9.5 |
| 40°-50° | 3757.7 | 14.1 |
| 50°-60° | 5187.7 | 19.5 |
| 60°-70° | 6293.9 | 23.6 |
| 70°-80° | 5201.4 | 19.5 |
| 80°-90° | 748.1 | 2.8 |
| 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° | 26656.0 | 100.0 |
| 0°-180° | 26656.0 | 100.0 |



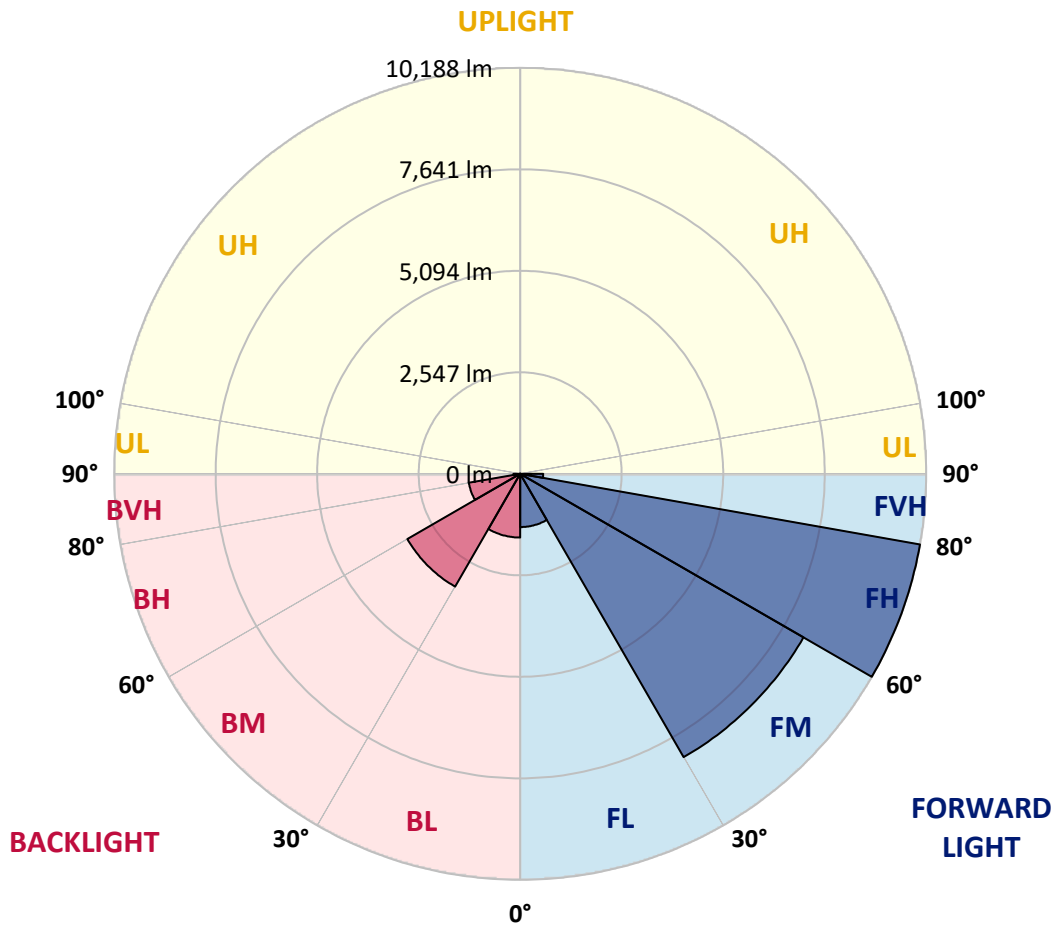
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1336.7 | 5.0 | | | |
| FM (30°-60°) | 8208.6 | 30.8 | | | |
| FH (60°-80°) | 10187.5 | 38.2 | | | G4/12000 |
| FVH (80°-90°) | 579.7 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1598.6 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 3268.5 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1307.8 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 168.5 | 0.6 | | | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| 0° | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 |
| 2.5° | 3275.4 | 3295.6 | 3304.2 | 3299.9 | 3321.5 | 3318.6 | 3348.9 | 3386.4 | 3438.3 | 3488.7 |
| 5° | 3023.2 | 3044.9 | 3063.6 | 3080.9 | 3122.7 | 3135.6 | 3183.2 | 3255.2 | 3350.4 | 3446.9 |
| 7.5° | 2788.4 | 2807.1 | 2835.9 | 2867.6 | 2938.2 | 2951.2 | 3030.4 | 3142.8 | 3275.4 | 3416.6 |
| 10° | 2596.7 | 2615.4 | 2645.7 | 2681.7 | 2769.6 | 2785.5 | 2886.3 | 3036.2 | 3209.1 | 3387.8 |
| 12.5° | 2514.6 | 2520.3 | 2537.6 | 2573.6 | 2650.0 | 2660.1 | 2771.1 | 2942.5 | 3144.3 | 3366.2 |
| 15° | 2510.2 | 2521.8 | 2523.2 | 2541.9 | 2605.3 | 2609.7 | 2712.0 | 2882.0 | 3103.9 | 3361.9 |
| 17.5° | 2553.5 | 2562.1 | 2549.1 | 2560.7 | 2614.0 | 2621.2 | 2701.9 | 2853.2 | 3091.0 | 3380.6 |
| 20° | 2668.8 | 2676.0 | 2637.1 | 2621.2 | 2660.1 | 2665.9 | 2745.1 | 2871.9 | 3103.9 | 3419.5 |
| 22.5° | 2913.7 | 2918.0 | 2822.9 | 2758.1 | 2761.0 | 2763.9 | 2833.0 | 2948.3 | 3154.4 | 3490.1 |
| 25° | 3295.6 | 3292.7 | 3141.4 | 3016.0 | 2944.0 | 2928.1 | 2974.2 | 3072.2 | 3239.4 | 3583.8 |
| 27.5° | 3742.3 | 3720.7 | 3569.4 | 3382.1 | 3225.0 | 3201.9 | 3191.8 | 3233.6 | 3360.4 | 3707.7 |
| 30° | 4246.7 | 4226.5 | 4063.7 | 3818.7 | 3601.1 | 3563.6 | 3468.5 | 3446.9 | 3540.6 | 3876.3 |
| 32.5° | 4800.0 | 4787.0 | 4592.5 | 4295.7 | 4004.6 | 3961.3 | 3801.4 | 3743.7 | 3817.2 | 4131.4 |
| 35° | 5264.0 | 5252.5 | 5091.1 | 4785.6 | 4429.7 | 4376.4 | 4213.5 | 4148.7 | 4186.1 | 4458.5 |
| 37.5° | 5683.3 | 5677.6 | 5539.2 | 5298.6 | 4931.1 | 4866.3 | 4683.3 | 4661.7 | 4654.5 | 4889.4 |
| 40° | 6072.4 | 6058.0 | 5913.9 | 5787.1 | 5514.7 | 5455.7 | 5294.3 | 5275.5 | 5220.8 | 5419.6 |
| 42.5° | 6503.3 | 6465.8 | 6256.9 | 6197.8 | 6124.3 | 6075.3 | 5978.8 | 5981.6 | 5860.6 | 6017.7 |
| 45° | 6854.9 | 6833.3 | 6618.6 | 6584.0 | 6663.2 | 6643.1 | 6726.6 | 6748.3 | 6513.4 | 6644.5 |
| 47.5° | 7232.4 | 7212.3 | 7030.7 | 7006.2 | 7220.9 | 7226.7 | 7522.1 | 7529.3 | 7150.3 | 7295.8 |
| 50° | 7697.9 | 7669.1 | 7488.9 | 7519.2 | 7759.8 | 7781.5 | 8321.8 | 8272.8 | 7736.8 | 7957.3 |
| 52.5° | 8004.8 | 8022.1 | 7983.2 | 8032.2 | 8360.7 | 8380.9 | 9108.6 | 8983.3 | 8317.5 | 8610.0 |
| 55° | 8231.1 | 8265.6 | 8386.7 | 8499.1 | 8994.8 | 9015.0 | 9850.8 | 9659.1 | 8798.8 | 9215.3 |
| 57.5° | 8522.1 | 8473.1 | 8699.4 | 8918.4 | 9597.1 | 9650.5 | 10572.7 | 10310.4 | 9225.4 | 9736.9 |
| 60° | 8940.0 | 8905.4 | 9081.3 | 9405.5 | 10271.5 | 10356.5 | 11336.4 | 10896.9 | 9538.1 | 10150.5 |
| 62.5° | 9787.3 | 9700.9 | 9728.3 | 10015.0 | 11121.7 | 11234.1 | 12198.2 | 11408.5 | 9693.7 | 10311.9 |
| 65° | 11054.0 | 10905.6 | 10767.2 | 10966.1 | 12319.2 | 12430.2 | 13170.8 | 11810.5 | 9636.0 | 9999.2 |
| 67.5° | 12649.2 | 12502.2 | 12332.2 | 12519.5 | 14083.0 | 14170.9 | 14371.2 | 12036.8 | 9182.1 | 8794.5 |
| 70° | 13964.8 | 13910.1 | 14113.3 | 14884.2 | 16900.2 | 16903.1 | 15910.2 | 11849.4 | 7938.5 | 6235.3 |
| 72.5° | 13790.5 | 13757.3 | 14828.0 | 17211.4 | 20450.8 | 20374.5 | 17367.1 | 10431.5 | 5347.6 | 2812.9 |
| 75° | 11313.4 | 11528.1 | 13186.7 | 17169.6 | 21726.1 | 21716.0 | 16475.1 | 6631.5 | 2212.0 | 1165.8 |
| 77.5° | 6066.7 | 6406.7 | 8561.0 | 12676.6 | 16960.7 | 17215.8 | 11582.8 | 2320.0 | 949.6 | 746.4 |
| 80° | 1978.5 | 2275.4 | 3412.3 | 6454.3 | 11020.9 | 10973.3 | 4964.3 | 910.7 | 649.9 | 528.9 |
| 82.5° | 840.1 | 874.7 | 1524.6 | 3047.7 | 5656.0 | 5568.1 | 1580.8 | 523.1 | 456.8 | 361.7 |
| 85° | 328.6 | 367.5 | 673.0 | 1409.3 | 2449.7 | 2396.4 | 570.6 | 259.4 | 292.5 | 236.3 |
| 87.5° | 108.1 | 131.1 | 240.6 | 482.7 | 762.3 | 734.9 | 139.8 | 89.3 | 126.8 | 108.1 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3552.1 | 0° | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 | 3552.1 |
| 3562.2 | 2.5° | 3582.4 | 3605.4 | 3632.8 | 3673.1 | 3707.7 | 3736.5 | 3766.8 | 3785.5 | 3792.7 | 3814.4 |
| 3567.9 | 5° | 3608.3 | 3658.7 | 3726.5 | 3792.7 | 3857.6 | 3896.5 | 3931.1 | 3948.4 | 3964.2 | 3975.7 |
| 3583.8 | 7.5° | 3651.5 | 3716.4 | 3823.0 | 3909.5 | 3964.2 | 3995.9 | 4019.0 | 4013.2 | 4019.0 | 4021.9 |
| 3601.1 | 10° | 3689.0 | 3779.8 | 3906.6 | 3988.7 | 4030.5 | 4031.9 | 4026.2 | 4006.0 | 3995.9 | 3997.4 |
| 3627.0 | 12.5° | 3733.7 | 3834.5 | 3971.4 | 4040.6 | 4052.1 | 4020.4 | 3995.9 | 3961.3 | 3948.4 | 3942.6 |
| 3665.9 | 15° | 3794.2 | 3909.5 | 4042.0 | 4068.0 | 4039.2 | 3998.8 | 3957.0 | 3900.8 | 3872.0 | 3848.9 |
| 3732.2 | 17.5° | 3867.7 | 3994.5 | 4096.8 | 4078.1 | 4016.1 | 3949.8 | 3882.1 | 3797.1 | 3738.0 | 3713.5 |
| 3823.0 | 20° | 3970.0 | 4083.8 | 4138.6 | 4056.4 | 3962.8 | 3861.9 | 3746.6 | 3642.9 | 3588.1 | 3563.6 |
| 3938.3 | 22.5° | 4093.9 | 4203.4 | 4178.9 | 4019.0 | 3886.4 | 3725.0 | 3580.9 | 3504.5 | 3477.2 | 3459.9 |
| 4086.7 | 25° | 4242.3 | 4336.0 | 4207.8 | 3964.2 | 3761.0 | 3543.4 | 3432.5 | 3408.0 | 3395.0 | 3382.1 |
| 4268.3 | 27.5° | 4435.4 | 4485.9 | 4229.4 | 3883.5 | 3565.1 | 3350.4 | 3310.0 | 3314.3 | 3310.0 | 3288.4 |
| 4520.5 | 30° | 4690.5 | 4680.4 | 4249.5 | 3752.4 | 3340.3 | 3176.0 | 3178.9 | 3197.6 | 3200.5 | 3186.1 |
| 4872.1 | 32.5° | 5026.2 | 4923.9 | 4259.6 | 3582.4 | 3125.6 | 3023.2 | 3026.1 | 3046.3 | 3060.7 | 3036.2 |
| 5331.7 | 35° | 5432.6 | 5207.8 | 4243.8 | 3369.1 | 2959.8 | 2877.7 | 2856.1 | 2861.8 | 2866.2 | 2843.1 |
| 5889.4 | 37.5° | 5906.7 | 5526.3 | 4173.2 | 3132.8 | 2822.9 | 2735.0 | 2688.9 | 2650.0 | 2627.0 | 2605.3 |
| 6520.6 | 40° | 6426.9 | 5873.6 | 4043.5 | 2902.2 | 2670.2 | 2583.7 | 2514.6 | 2441.1 | 2363.3 | 2334.4 |
| 7189.2 | 42.5° | 6971.6 | 6230.9 | 3886.4 | 2681.7 | 2494.4 | 2423.8 | 2350.3 | 2243.7 | 2126.9 | 2067.9 |
| 7883.8 | 45° | 7536.5 | 6596.9 | 3732.2 | 2464.1 | 2314.3 | 2284.0 | 2199.0 | 2070.7 | 1943.9 | 1869.0 |
| 8579.8 | 47.5° | 8089.8 | 6942.8 | 3506.0 | 2245.1 | 2145.7 | 2178.8 | 2112.5 | 1994.4 | 1853.1 | 1735.0 |
| 9270.0 | 50° | 8618.7 | 7267.0 | 3135.6 | 2023.2 | 2008.8 | 2147.1 | 2083.7 | 1913.7 | 1752.3 | 1601.0 |
| 9947.3 | 52.5° | 9143.2 | 7529.3 | 2661.5 | 1821.4 | 1935.3 | 2138.5 | 2046.2 | 1858.9 | 1661.5 | 1503.0 |
| 10584.2 | 55° | 9588.5 | 7664.7 | 2204.7 | 1648.5 | 1828.6 | 2065.0 | 2001.6 | 1794.1 | 1533.2 | 1364.6 |
| 11020.9 | 57.5° | 9842.1 | 7555.2 | 1824.3 | 1478.5 | 1681.7 | 1943.9 | 1925.2 | 1655.7 | 1380.5 | 1250.8 |
| 11105.9 | 60° | 9732.6 | 7111.4 | 1513.1 | 1330.1 | 1541.9 | 1812.8 | 1792.6 | 1518.8 | 1263.8 | 1141.3 |
| 10650.5 | 62.5° | 9128.8 | 6265.5 | 1266.6 | 1200.4 | 1415.1 | 1678.8 | 1660.0 | 1413.6 | 1174.4 | 1056.3 |
| 9441.5 | 65° | 7912.6 | 5096.9 | 1075.0 | 1092.3 | 1286.8 | 1517.4 | 1544.8 | 1325.7 | 1103.8 | 988.5 |
| 7304.5 | 67.5° | 6035.0 | 3691.9 | 925.1 | 998.6 | 1161.5 | 1358.9 | 1438.1 | 1262.3 | 1044.7 | 935.2 |
| 4226.5 | 70° | 3439.7 | 2096.7 | 798.3 | 907.8 | 1050.5 | 1211.9 | 1356.0 | 1211.9 | 981.3 | 890.5 |
| 1583.7 | 72.5° | 1304.1 | 962.6 | 690.2 | 817.1 | 943.9 | 1088.0 | 1265.2 | 1132.6 | 907.8 | 840.1 |
| 818.5 | 75° | 696.0 | 586.5 | 580.7 | 710.4 | 821.4 | 966.9 | 1151.4 | 1054.8 | 853.1 | 887.7 |
| 566.3 | 77.5° | 474.1 | 415.0 | 485.6 | 608.1 | 687.4 | 832.9 | 1030.3 | 936.7 | 739.2 | 736.4 |
| 392.0 | 80° | 328.6 | 294.0 | 394.8 | 489.9 | 531.7 | 700.3 | 899.2 | 804.1 | 602.3 | 562.0 |
| 242.1 | 82.5° | 197.4 | 191.7 | 295.4 | 366.0 | 376.1 | 540.4 | 745.0 | 674.4 | 492.8 | 429.4 |
| 144.1 | 85° | 108.1 | 113.8 | 188.8 | 214.7 | 219.0 | 377.5 | 583.6 | 521.6 | 379.0 | 318.5 |
| 51.9 | 87.5° | 30.3 | 38.9 | 69.2 | 85.0 | 105.2 | 196.0 | 347.3 | 309.8 | 190.2 | 132.6 |
| 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> |
|-------------|
| 3552.1 |
| 3812.9 |
| 3978.6 |
| 4026.2 |
| 4000.2 |
| 3939.7 |
| 3856.1 |
| 3714.9 |
| 3560.7 |
| 3462.7 |
| 3382.1 |
| 3292.7 |
| 3193.3 |
| 3047.7 |
| 2859.0 |
| 2619.8 |
| 2347.4 |
| 2075.1 |
| 1863.2 |
| 1722.0 |
| 1588.0 |
| 1485.7 |
| 1350.2 |
| 1233.5 |
| 1124.0 |
| 1037.5 |
| 969.8 |
| 917.9 |
| 879.0 |
| 828.6 |
| 916.5 |
| 678.7 |
| 537.5 |
| 432.3 |
| 321.3 |
| 132.6 |
| 0.0 |

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