

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: P941418

Luminaire Tested: **GALN-SB4D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941418
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-SB4D-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA 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: 22376 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

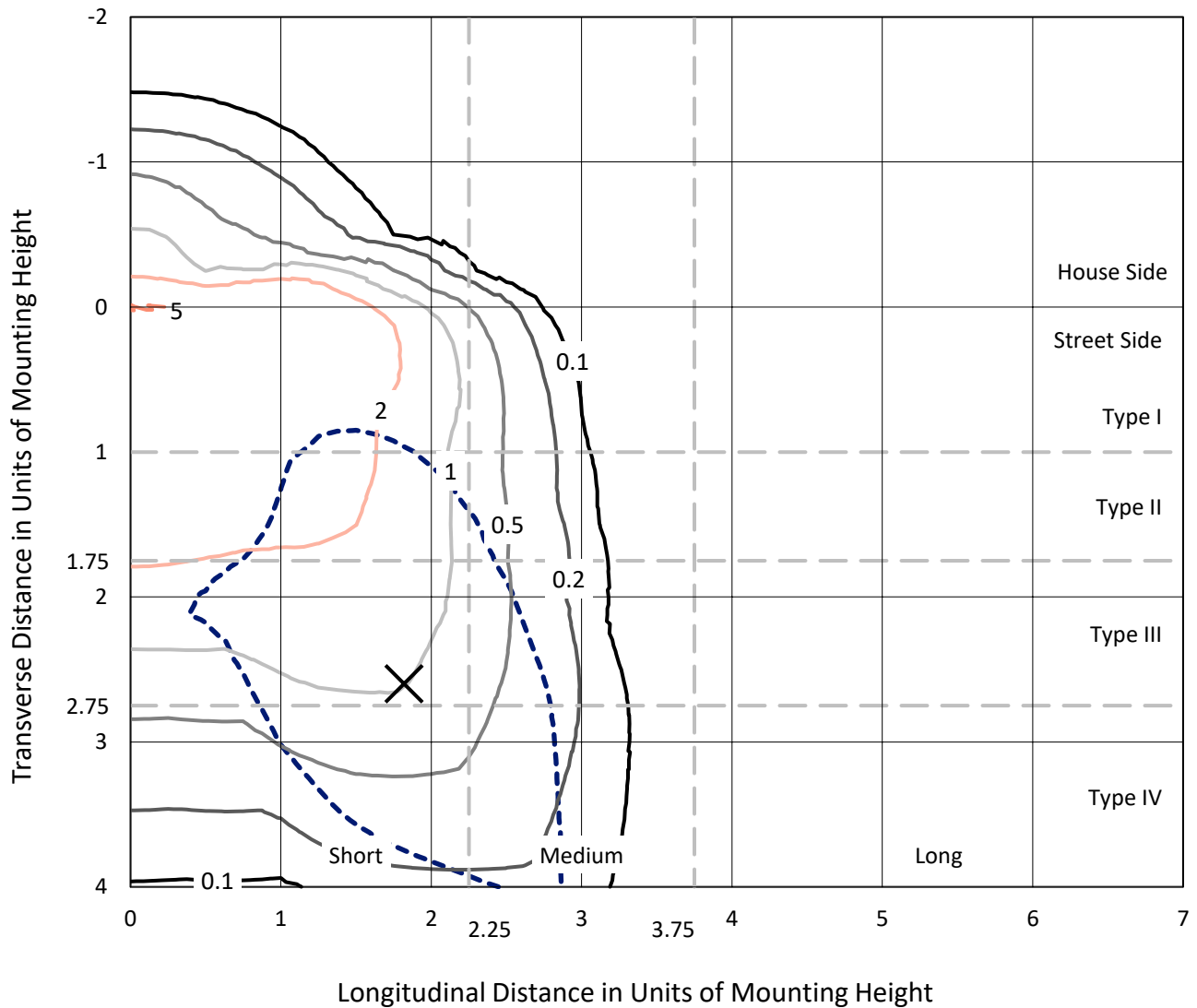
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

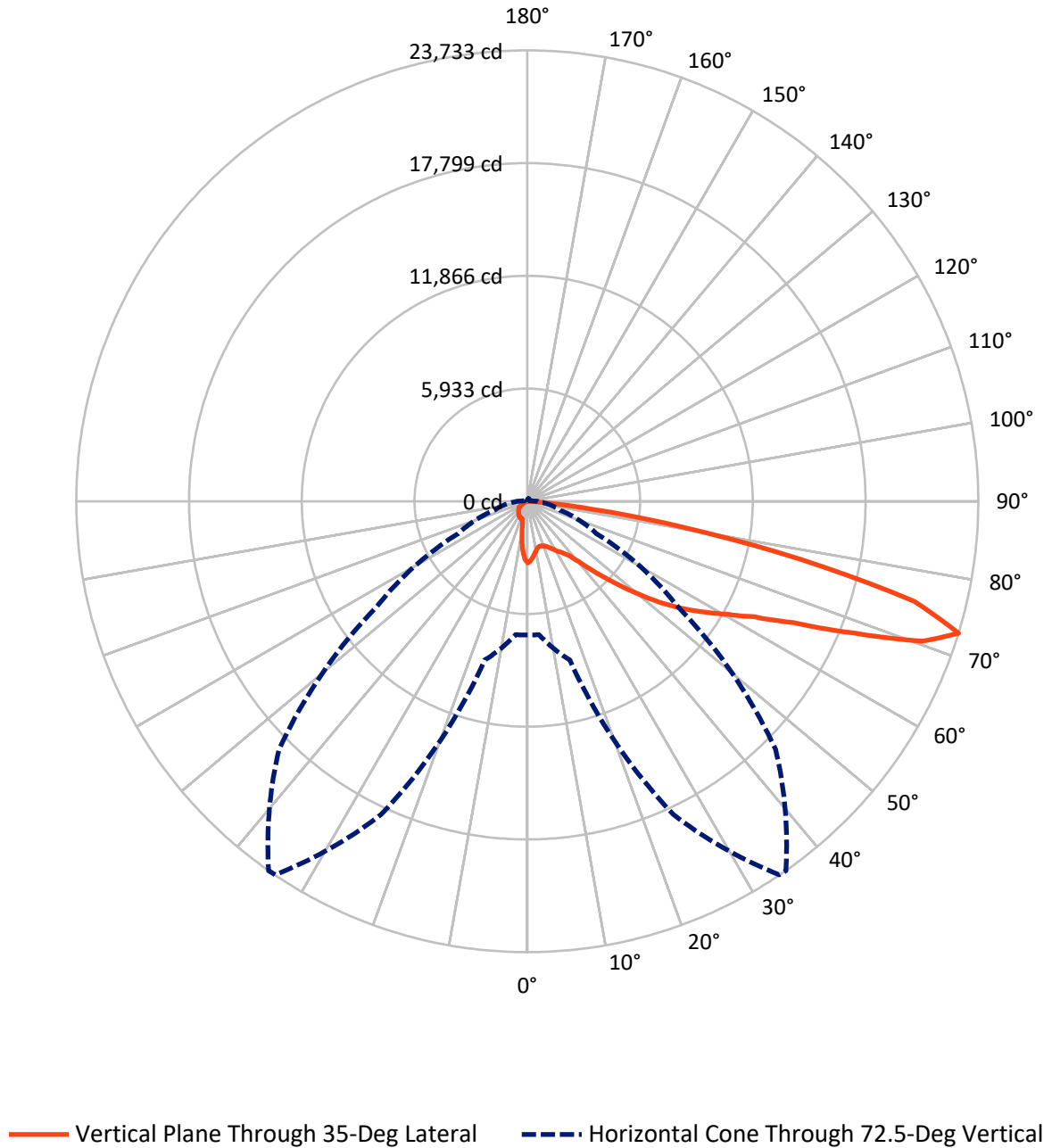
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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 | 2518.3 | 0.0 | 2518.3 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 19857.7 | 0.0 | 19857.7 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 22376.0 | 0.0 | 22376.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 266.5 | 1.2 |
| 10°-20° | 623.4 | 2.8 |
| 20°-30° | 1012.7 | 4.5 |
| 30°-40° | 1689.7 | 7.6 |
| 40°-50° | 3197.0 | 14.3 |
| 50°-60° | 5080.1 | 22.7 |
| 60°-70° | 6284.4 | 28.1 |
| 70°-80° | 3906.4 | 17.5 |
| 80°-90° | 315.7 | 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° | 22376.0 | 100.0 |
| 0°-180° | 22376.0 | 100.0 |



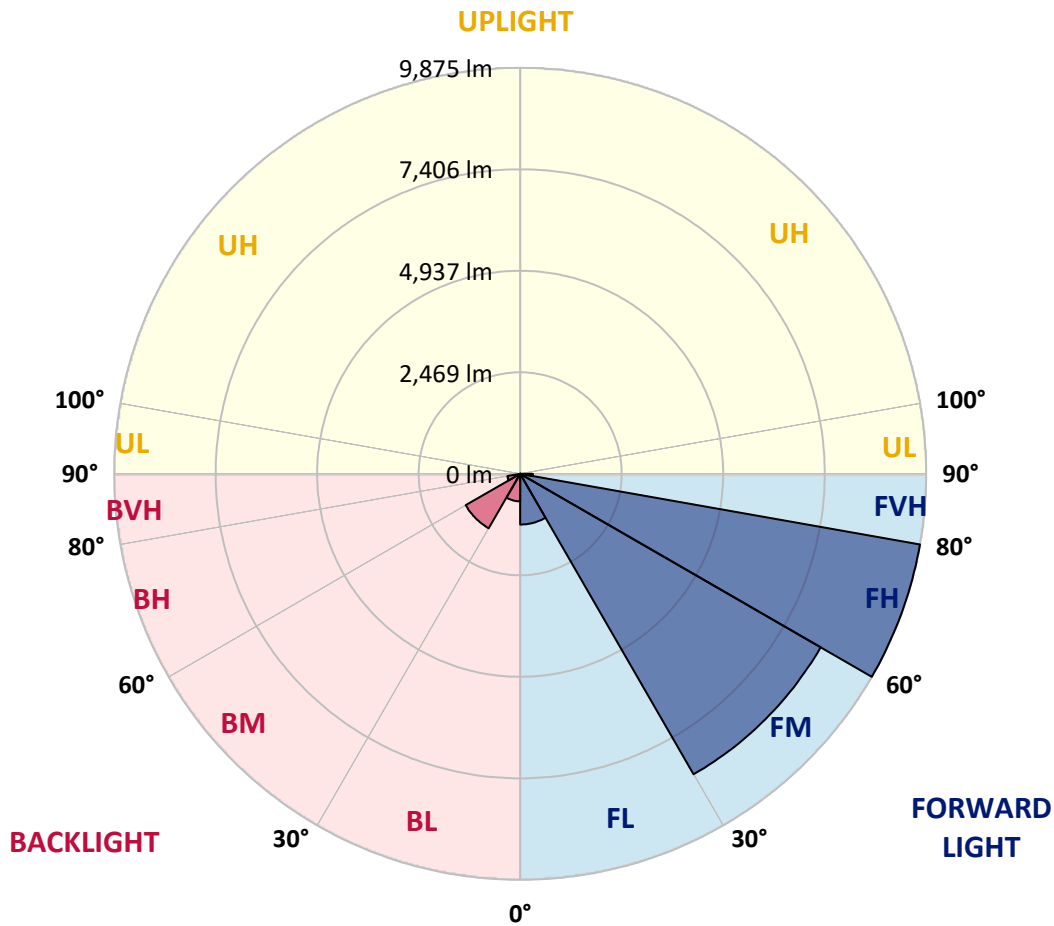
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1233.5 | 5.5 | | | |
| FM (30°-60°) | 8438.0 | 37.7 | | | |
| FH (60°-80°) | 9874.8 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 311.4 | 1.4 | | | G3/500 |
| BL (0°-30°) | 669.2 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1528.8 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 316.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.3 | 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° | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 |
| 2.5° | 3098.8 | 3125.0 | 3129.9 | 3138.1 | 3138.1 | 3147.9 | 3164.3 | 3187.3 | 3225.0 | 3244.7 |
| 5° | 2856.1 | 2875.8 | 2900.4 | 2920.0 | 2957.8 | 2962.7 | 3026.6 | 3088.9 | 3175.8 | 3241.4 |
| 7.5° | 2611.8 | 2634.8 | 2667.6 | 2715.1 | 2764.3 | 2779.0 | 2875.8 | 2980.7 | 3118.4 | 3241.4 |
| 10° | 2439.7 | 2441.3 | 2470.8 | 2518.4 | 2597.0 | 2615.1 | 2733.1 | 2882.3 | 3054.5 | 3221.7 |
| 12.5° | 2342.9 | 2354.4 | 2367.5 | 2403.6 | 2479.0 | 2490.5 | 2616.7 | 2792.2 | 2990.5 | 3210.2 |
| 15° | 2342.9 | 2351.1 | 2359.3 | 2377.3 | 2438.0 | 2447.9 | 2559.3 | 2734.8 | 2957.8 | 3215.2 |
| 17.5° | 2367.5 | 2380.6 | 2374.1 | 2395.4 | 2459.3 | 2465.9 | 2564.3 | 2718.4 | 2956.1 | 3246.3 |
| 20° | 2426.5 | 2436.4 | 2423.3 | 2436.4 | 2500.3 | 2513.4 | 2615.1 | 2749.5 | 2984.0 | 3300.4 |
| 22.5° | 2520.0 | 2524.9 | 2493.8 | 2503.6 | 2569.2 | 2585.6 | 2703.6 | 2838.1 | 3051.2 | 3387.3 |
| 25° | 2638.0 | 2647.9 | 2600.3 | 2611.8 | 2674.1 | 2693.8 | 2829.9 | 2970.9 | 3157.8 | 3507.0 |
| 27.5° | 2774.1 | 2779.0 | 2738.1 | 2736.4 | 2816.7 | 2844.6 | 2982.3 | 3134.8 | 3300.4 | 3657.8 |
| 30° | 2929.9 | 2944.6 | 2905.3 | 2898.7 | 3000.4 | 3023.3 | 3159.4 | 3336.5 | 3510.3 | 3884.1 |
| 32.5° | 3052.8 | 3064.3 | 3041.4 | 3057.8 | 3161.1 | 3179.1 | 3374.2 | 3621.8 | 3839.8 | 4205.4 |
| 35° | 3229.9 | 3236.5 | 3184.0 | 3213.5 | 3331.6 | 3377.5 | 3667.7 | 4021.8 | 4254.6 | 4608.8 |
| 37.5° | 3871.0 | 3871.0 | 3648.0 | 3502.1 | 3615.2 | 3656.2 | 4069.4 | 4525.2 | 4766.2 | 5149.8 |
| 40° | 4758.0 | 4743.2 | 4417.0 | 4118.6 | 4103.8 | 4184.1 | 4641.6 | 5159.7 | 5426.9 | 5799.1 |
| 42.5° | 5704.0 | 5681.0 | 5236.7 | 4941.6 | 4892.4 | 4920.3 | 5302.3 | 5941.7 | 6213.9 | 6591.0 |
| 45° | 6543.4 | 6536.9 | 6130.3 | 5733.5 | 5645.0 | 5733.5 | 6127.0 | 6856.6 | 7051.7 | 7448.5 |
| 47.5° | 7246.8 | 7246.8 | 6950.1 | 6691.0 | 6645.1 | 6697.6 | 7243.5 | 7871.5 | 7853.5 | 8361.7 |
| 50° | 8056.8 | 8050.2 | 7768.2 | 7656.7 | 7704.3 | 7778.0 | 8528.9 | 8940.5 | 8683.1 | 9258.5 |
| 52.5° | 8624.0 | 8663.4 | 8566.7 | 8548.6 | 8791.3 | 8919.2 | 9834.0 | 9986.5 | 9425.8 | 10109.5 |
| 55° | 9073.3 | 9119.2 | 9230.7 | 9356.9 | 9824.2 | 9991.4 | 11098.1 | 10978.4 | 10047.2 | 10847.3 |
| 57.5° | 9709.4 | 9643.8 | 9816.0 | 10065.2 | 10821.0 | 11022.7 | 12322.9 | 11914.6 | 10547.2 | 11445.7 |
| 60° | 10481.7 | 10491.5 | 10521.0 | 10835.8 | 11816.2 | 12075.3 | 13529.6 | 12800.0 | 10868.6 | 11813.0 |
| 62.5° | 11409.6 | 11424.4 | 11485.1 | 11968.7 | 13152.5 | 13396.8 | 14815.0 | 13524.7 | 11016.1 | 11709.7 |
| 65° | 11345.7 | 11408.0 | 12085.1 | 13739.4 | 15183.9 | 15424.9 | 16315.2 | 14032.9 | 10793.2 | 10765.3 |
| 67.5° | 10335.7 | 10437.4 | 11570.3 | 15854.5 | 18246.6 | 18515.5 | 18128.5 | 14132.9 | 9830.8 | 8371.5 |
| 70° | 9011.0 | 9047.0 | 10409.5 | 17756.3 | 21792.9 | 22065.1 | 19751.7 | 13032.8 | 7460.0 | 4669.4 |
| 72.5° | 7037.0 | 7045.2 | 8643.7 | 18197.4 | 23717.8 | 23732.5 | 18477.7 | 9675.0 | 4012.0 | 1793.7 |
| 75° | 5026.9 | 4977.7 | 5789.3 | 14757.6 | 20866.6 | 21033.8 | 13852.6 | 4538.3 | 1533.0 | 847.6 |
| 77.5° | 2695.4 | 2749.5 | 3275.8 | 8751.9 | 14414.9 | 14700.2 | 7558.3 | 1308.4 | 780.4 | 577.1 |
| 80° | 832.9 | 878.8 | 1342.8 | 4007.1 | 8165.0 | 8337.1 | 2802.0 | 582.0 | 544.3 | 411.5 |
| 82.5° | 262.3 | 272.2 | 626.3 | 1683.8 | 3389.0 | 3467.7 | 811.6 | 329.5 | 372.2 | 272.2 |
| 85° | 75.4 | 77.1 | 278.7 | 627.9 | 837.8 | 854.2 | 227.9 | 127.9 | 213.1 | 168.9 |
| 87.5° | 8.2 | 26.2 | 104.9 | 104.9 | 73.8 | 72.1 | 24.6 | 27.9 | 60.7 | 21.3 |
| 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3243.0 | 0° | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 | 3243.0 |
| 3257.8 | 2.5° | 3249.6 | 3251.2 | 3229.9 | 3193.8 | 3154.5 | 3121.7 | 3080.7 | 3047.9 | 3025.0 | 3018.4 |
| 3287.3 | 5° | 3272.5 | 3261.1 | 3200.4 | 3090.6 | 2959.4 | 2846.3 | 2720.0 | 2620.0 | 2554.4 | 2526.5 |
| 3318.5 | 7.5° | 3307.0 | 3274.2 | 3141.4 | 2925.0 | 2674.1 | 2451.1 | 2224.9 | 2049.4 | 1937.9 | 1882.2 |
| 3348.0 | 10° | 3336.5 | 3270.9 | 3043.0 | 2685.6 | 2301.9 | 1964.2 | 1659.2 | 1447.7 | 1329.7 | 1273.9 |
| 3382.4 | 12.5° | 3364.4 | 3269.3 | 2915.1 | 2401.9 | 1882.2 | 1469.0 | 1185.4 | 1080.5 | 1047.7 | 1036.2 |
| 3438.1 | 15° | 3416.8 | 3274.2 | 2754.4 | 2077.3 | 1464.1 | 1110.0 | 1006.7 | 1005.0 | 1011.6 | 1008.3 |
| 3523.4 | 17.5° | 3489.0 | 3279.1 | 2572.5 | 1733.0 | 1129.7 | 978.8 | 973.9 | 988.6 | 998.5 | 993.6 |
| 3630.0 | 20° | 3582.4 | 3298.8 | 2379.0 | 1392.0 | 970.6 | 946.0 | 957.5 | 970.6 | 978.8 | 970.6 |
| 3772.6 | 22.5° | 3713.6 | 3333.2 | 2167.5 | 1118.2 | 919.8 | 926.3 | 936.2 | 950.9 | 959.1 | 947.7 |
| 3954.6 | 25° | 3874.3 | 3387.3 | 1959.3 | 972.3 | 895.2 | 903.4 | 918.1 | 934.5 | 944.4 | 932.9 |
| 4184.1 | 27.5° | 4082.5 | 3474.2 | 1767.4 | 939.5 | 870.6 | 875.5 | 896.8 | 921.4 | 934.5 | 919.8 |
| 4510.4 | 30° | 4384.2 | 3616.9 | 1601.8 | 954.2 | 855.8 | 844.4 | 873.9 | 908.3 | 923.1 | 910.0 |
| 4954.7 | 32.5° | 4784.2 | 3818.5 | 1500.2 | 977.2 | 849.3 | 808.3 | 836.2 | 880.4 | 905.0 | 896.8 |
| 5535.1 | 35° | 5308.9 | 4125.1 | 1460.8 | 1003.4 | 844.4 | 770.6 | 790.3 | 837.8 | 880.4 | 888.6 |
| 6266.4 | 37.5° | 5945.0 | 4551.4 | 1472.3 | 1014.9 | 829.6 | 739.4 | 749.3 | 790.3 | 846.0 | 872.2 |
| 7089.4 | 40° | 6668.1 | 5048.2 | 1537.9 | 1003.4 | 813.2 | 713.2 | 714.8 | 746.0 | 795.2 | 834.5 |
| 7974.8 | 42.5° | 7414.1 | 5628.6 | 1659.2 | 960.8 | 798.5 | 690.3 | 685.3 | 706.6 | 739.4 | 767.3 |
| 8858.5 | 45° | 8124.0 | 6225.4 | 1778.9 | 901.8 | 780.4 | 667.3 | 655.8 | 664.0 | 670.6 | 682.1 |
| 9719.3 | 47.5° | 8743.7 | 6645.1 | 1744.5 | 847.6 | 755.8 | 641.1 | 621.4 | 618.1 | 598.4 | 596.8 |
| 10488.2 | 50° | 9171.7 | 6736.9 | 1549.4 | 793.5 | 719.8 | 611.6 | 580.4 | 560.7 | 526.3 | 509.9 |
| 11063.7 | 52.5° | 9307.7 | 6374.6 | 1265.7 | 739.4 | 660.7 | 572.2 | 527.9 | 496.8 | 454.2 | 439.4 |
| 11394.9 | 55° | 9127.4 | 5664.7 | 1011.6 | 673.9 | 578.8 | 519.7 | 470.6 | 429.6 | 395.1 | 377.1 |
| 11431.0 | 57.5° | 8686.3 | 4761.3 | 800.1 | 596.8 | 491.9 | 460.7 | 411.5 | 370.5 | 341.0 | 323.0 |
| 11030.9 | 60° | 7955.1 | 3780.8 | 632.9 | 505.0 | 419.7 | 396.8 | 345.9 | 319.7 | 293.5 | 272.2 |
| 9998.0 | 62.5° | 6845.1 | 2698.7 | 496.8 | 400.1 | 350.9 | 324.6 | 295.1 | 275.4 | 244.3 | 214.8 |
| 8140.4 | 65° | 5341.7 | 1651.0 | 383.7 | 293.5 | 282.0 | 268.9 | 250.9 | 232.8 | 195.1 | 165.6 |
| 5310.5 | 67.5° | 3369.3 | 782.1 | 273.8 | 221.3 | 223.0 | 216.4 | 208.2 | 193.5 | 165.6 | 139.4 |
| 2379.0 | 70° | 1483.8 | 378.7 | 180.4 | 168.9 | 165.6 | 165.6 | 172.2 | 167.2 | 141.0 | 116.4 |
| 826.3 | 72.5° | 505.0 | 203.3 | 134.4 | 127.9 | 119.7 | 118.0 | 144.3 | 139.4 | 113.1 | 90.2 |
| 411.5 | 75° | 264.0 | 136.1 | 98.4 | 91.8 | 72.1 | 86.9 | 114.8 | 108.2 | 80.3 | 59.0 |
| 272.2 | 77.5° | 172.2 | 96.7 | 67.2 | 59.0 | 41.0 | 57.4 | 85.3 | 75.4 | 47.5 | 29.5 |
| 178.7 | 80° | 108.2 | 63.9 | 39.3 | 27.9 | 19.7 | 31.2 | 45.9 | 32.8 | 18.0 | 6.6 |
| 104.9 | 82.5° | 57.4 | 32.8 | 14.8 | 9.8 | 8.2 | 9.8 | 11.5 | 8.2 | 3.3 | 0.0 |
| 54.1 | 85° | 23.0 | 11.5 | 4.9 | 3.3 | 1.6 | 0.0 | 3.3 | 1.6 | 0.0 | 0.0 |
| 9.8 | 87.5° | 8.2 | 1.6 | 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 |

(END O

| <u>180°</u> |
|-------------|
| 3243.0 |
| 3029.9 |
| 2536.4 |
| 1890.4 |
| 1275.6 |
| 1032.9 |
| 1006.7 |
| 991.9 |
| 969.0 |
| 946.0 |
| 931.3 |
| 919.8 |
| 908.3 |
| 896.8 |
| 888.6 |
| 878.8 |
| 847.6 |
| 778.8 |
| 688.6 |
| 595.2 |
| 511.5 |
| 437.8 |
| 377.1 |
| 319.7 |
| 267.2 |
| 209.9 |
| 160.7 |
| 136.1 |
| 111.5 |
| 85.3 |
| 54.1 |
| 26.2 |
| 4.9 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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