

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: P952199

Luminaire Tested: **GALN-SB6A-840-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952199
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-SB6A-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 350mA 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: 20042 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

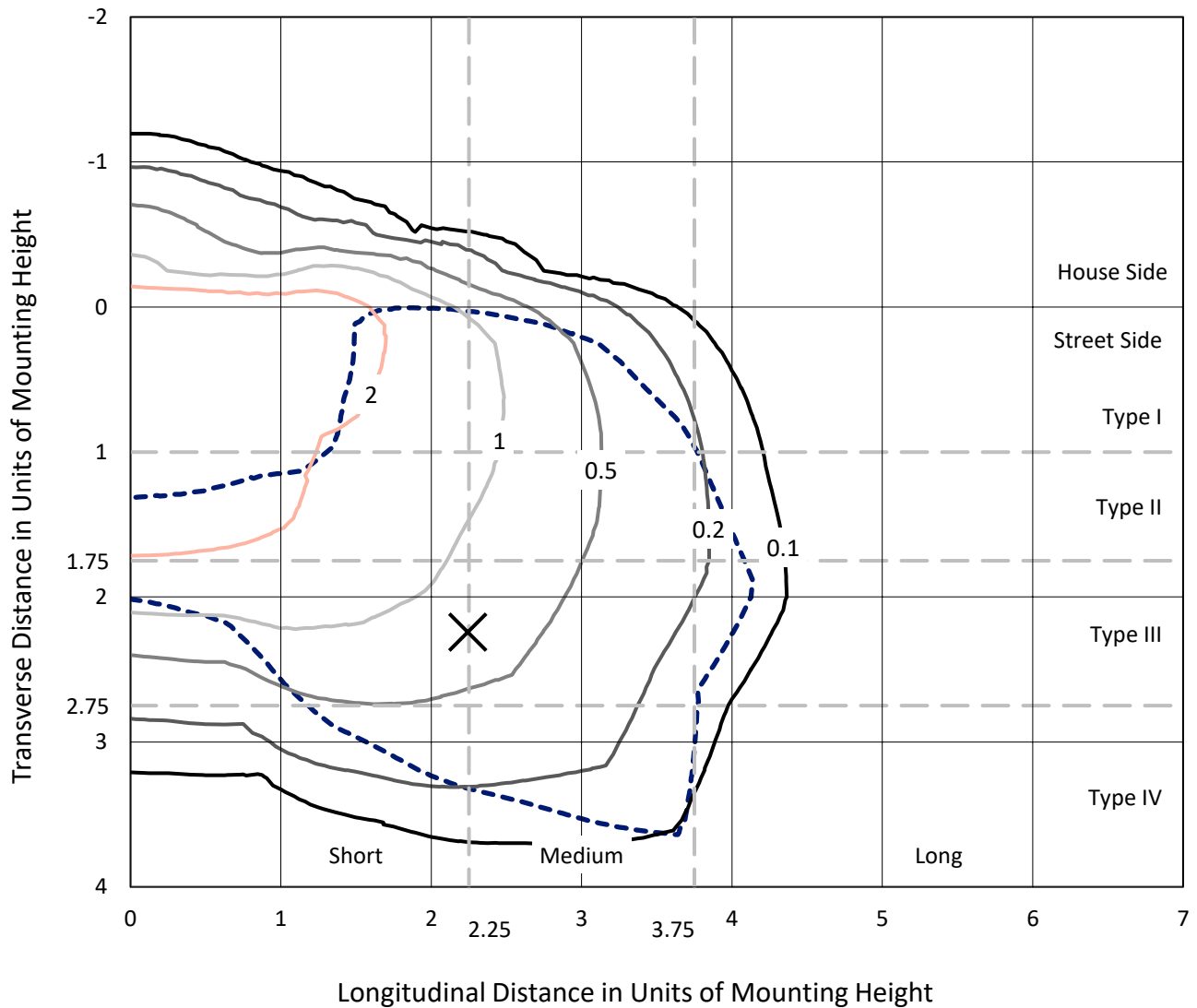
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

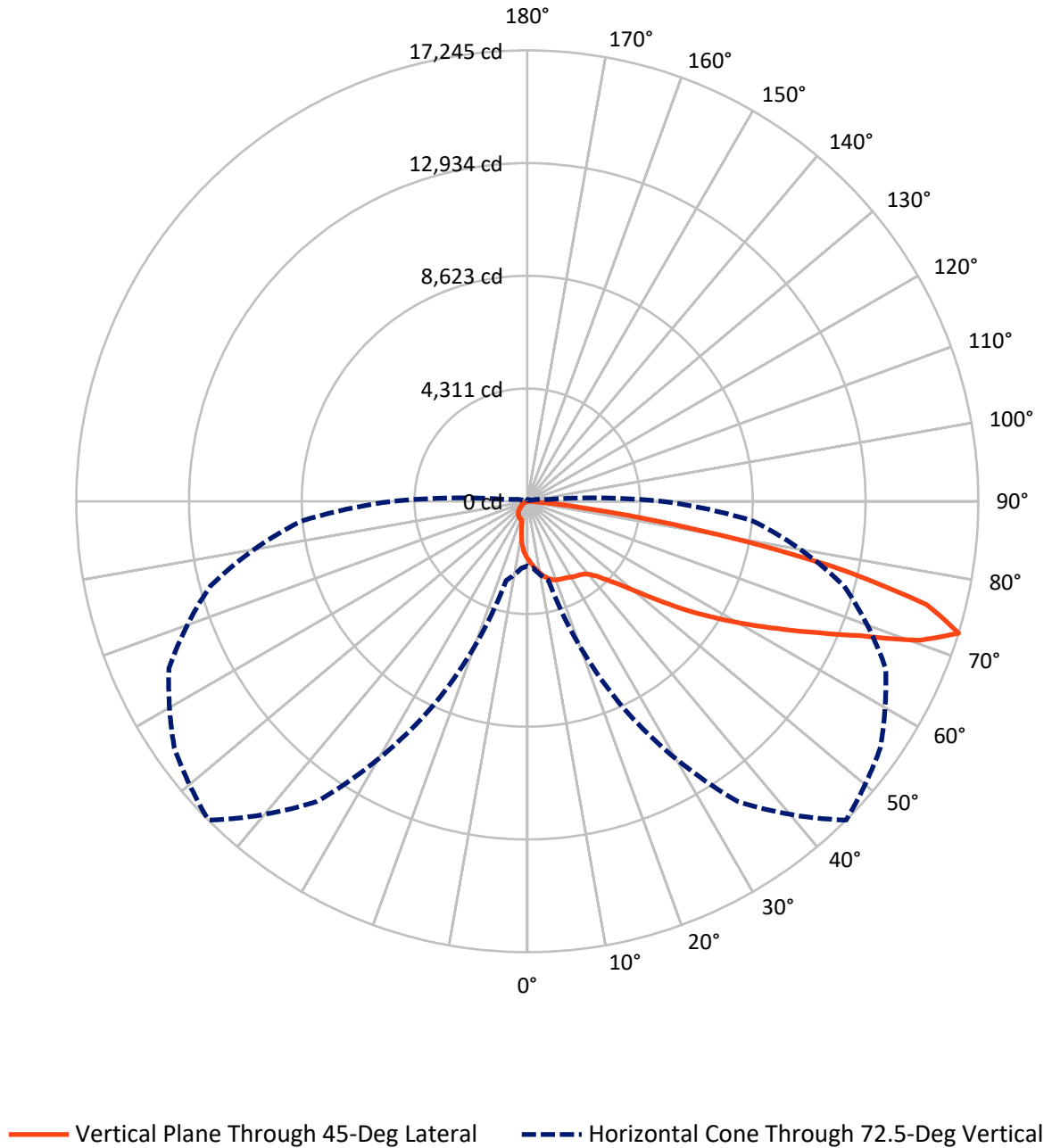
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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 | 2105.9 | 0.0 | 2105.9 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 17936.1 | 0.0 | 17936.1 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 20042.0 | 0.0 | 20042.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 206.9 | 1.0 |
| 10°-20° | 604.6 | 3.0 |
| 20°-30° | 992.9 | 5.0 |
| 30°-40° | 1408.1 | 7.0 |
| 40°-50° | 2327.4 | 11.6 |
| 50°-60° | 4181.0 | 20.9 |
| 60°-70° | 5805.5 | 29.0 |
| 70°-80° | 4211.1 | 21.0 |
| 80°-90° | 304.4 | 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° | 20042.0 | 100.0 |
| 0°-180° | 20042.0 | 100.0 |

Coefficient of Utilization



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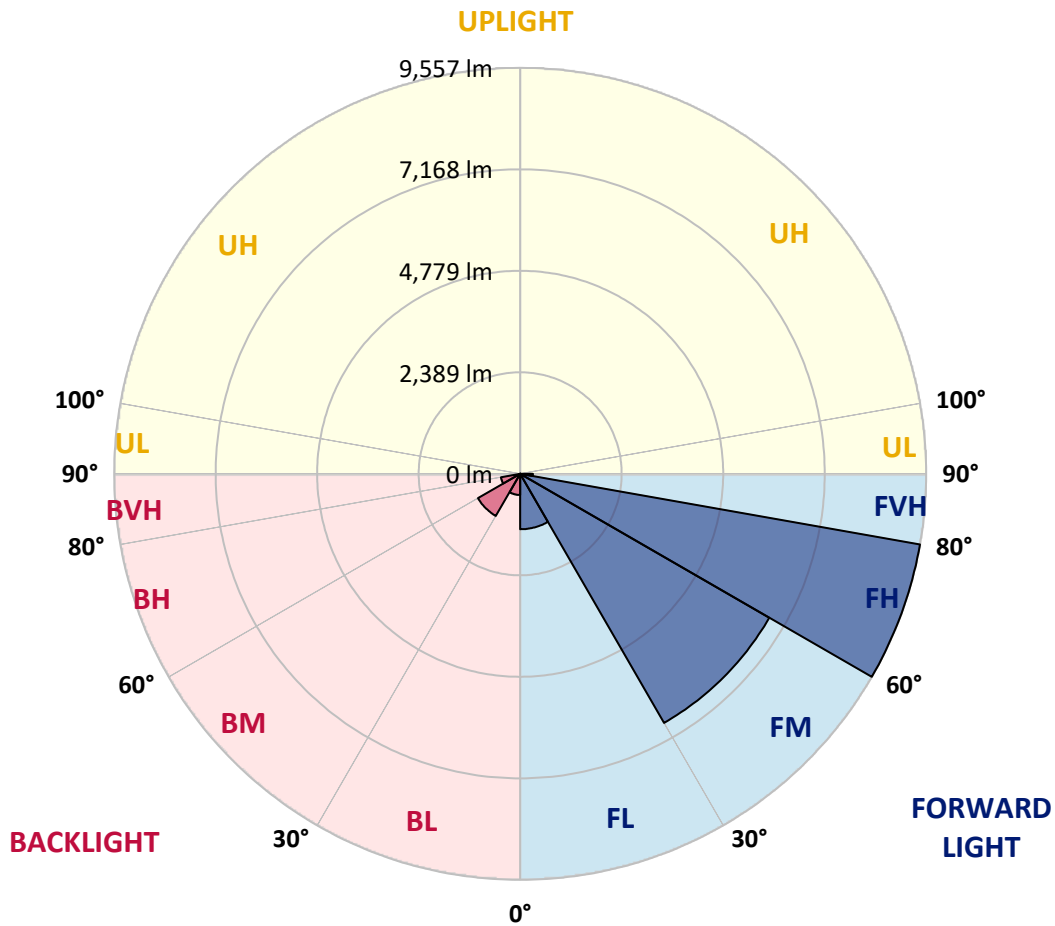
CATALOG NUMBER: GALN-SB6A-840-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1305.5 | 6.5 | | | |
| FM (30°-60°) | 6771.3 | 33.8 | | | |
| FH (60°-80°) | 9557.5 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 301.9 | 1.5 | | | G3/500 |
| BL (0°-30°) | 498.8 | 2.5 | B1/500 | | |
| BM (30°-60°) | 1145.3 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 459.2 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 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° | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 |
| 2.5° | 2398.1 | 2402.2 | 2399.5 | 2383.1 | 2355.7 | 2340.7 | 2332.4 | 2305.1 | 2287.3 | 2255.8 |
| 5° | 2618.4 | 2634.8 | 2625.2 | 2592.4 | 2540.4 | 2503.4 | 2492.5 | 2436.4 | 2385.8 | 2327.0 |
| 7.5° | 2852.3 | 2860.5 | 2842.7 | 2800.3 | 2730.5 | 2667.6 | 2658.0 | 2580.1 | 2499.3 | 2409.1 |
| 10° | 3054.7 | 3064.3 | 3037.0 | 2975.4 | 2896.1 | 2818.1 | 2804.4 | 2718.2 | 2622.5 | 2511.7 |
| 12.5° | 3224.4 | 3234.0 | 3198.4 | 3124.5 | 3037.0 | 2956.3 | 2942.6 | 2852.3 | 2746.9 | 2623.8 |
| 15° | 3353.0 | 3370.8 | 3322.9 | 3243.5 | 3149.1 | 3068.4 | 3061.6 | 2972.7 | 2870.1 | 2733.3 |
| 17.5° | 3428.2 | 3446.0 | 3400.9 | 3305.1 | 3224.4 | 3156.0 | 3147.8 | 3073.9 | 2978.1 | 2846.8 |
| 20° | 3440.5 | 3456.9 | 3409.1 | 3325.6 | 3258.6 | 3203.9 | 3199.8 | 3146.4 | 3076.6 | 2950.8 |
| 22.5° | 3403.6 | 3424.1 | 3380.3 | 3313.3 | 3266.8 | 3238.1 | 3232.6 | 3202.5 | 3162.8 | 3056.1 |
| 25° | 3365.3 | 3381.7 | 3348.9 | 3290.0 | 3265.4 | 3262.7 | 3266.8 | 3261.3 | 3253.1 | 3162.8 |
| 27.5° | 3362.5 | 3380.3 | 3343.4 | 3287.3 | 3273.6 | 3302.4 | 3306.5 | 3332.5 | 3339.3 | 3259.9 |
| 30° | 3385.8 | 3398.1 | 3362.5 | 3303.7 | 3296.9 | 3362.5 | 3363.9 | 3410.4 | 3421.4 | 3342.0 |
| 32.5° | 3436.4 | 3450.1 | 3414.5 | 3328.3 | 3318.8 | 3410.4 | 3414.5 | 3476.1 | 3493.9 | 3429.6 |
| 35° | 3555.4 | 3571.9 | 3530.8 | 3396.7 | 3362.5 | 3455.6 | 3467.9 | 3540.4 | 3576.0 | 3522.6 |
| 37.5° | 3852.3 | 3804.4 | 3748.3 | 3534.9 | 3462.4 | 3526.7 | 3547.2 | 3632.0 | 3695.0 | 3633.4 |
| 40° | 4589.6 | 4439.2 | 4264.1 | 3770.2 | 3637.5 | 3678.6 | 3695.0 | 3779.8 | 3866.0 | 3805.8 |
| 42.5° | 5696.4 | 5518.5 | 5236.7 | 4311.9 | 3901.5 | 3922.1 | 3934.4 | 4008.2 | 4130.0 | 4082.1 |
| 45° | 6682.7 | 6618.4 | 6331.1 | 5236.7 | 4395.4 | 4294.2 | 4309.2 | 4347.5 | 4526.7 | 4508.9 |
| 47.5° | 7440.6 | 7403.6 | 7182.0 | 6298.3 | 5229.9 | 4749.7 | 4792.1 | 4809.9 | 5068.4 | 5131.4 |
| 50° | 8023.3 | 8009.7 | 7811.3 | 7242.2 | 6320.2 | 5421.4 | 5436.4 | 5398.1 | 5785.3 | 5941.2 |
| 52.5° | 8573.3 | 8619.8 | 8473.4 | 8119.1 | 7484.3 | 6301.0 | 6298.3 | 6117.7 | 6640.3 | 6875.6 |
| 55° | 9069.9 | 9086.3 | 9101.3 | 9013.8 | 8655.4 | 7302.4 | 7276.4 | 6980.9 | 7632.1 | 7875.6 |
| 57.5° | 9536.3 | 9543.2 | 9677.2 | 9856.5 | 9874.2 | 8377.6 | 8329.8 | 7975.5 | 8715.5 | 8889.3 |
| 60° | 9849.6 | 9881.1 | 10164.3 | 10662.2 | 10879.7 | 9487.1 | 9461.1 | 9100.0 | 9818.2 | 9898.9 |
| 62.5° | 9398.2 | 9589.7 | 10303.8 | 11291.5 | 11829.1 | 10716.9 | 10704.6 | 10365.4 | 10978.2 | 10912.6 |
| 65° | 7607.5 | 7931.7 | 9187.5 | 11716.9 | 12760.7 | 12090.4 | 12108.2 | 11747.0 | 12169.7 | 11956.3 |
| 67.5° | 5321.5 | 5663.5 | 7149.2 | 11751.1 | 13801.8 | 13703.3 | 13805.9 | 13239.5 | 13435.2 | 12956.4 |
| 70° | 3679.9 | 3856.4 | 4823.6 | 11015.2 | 14613.0 | 15924.9 | 15922.2 | 15072.6 | 14693.7 | 13411.9 |
| 72.5° | 2474.7 | 2566.4 | 3132.7 | 8738.8 | 14016.6 | 17245.0 | 17165.7 | 16473.5 | 15117.8 | 12543.2 |
| 75° | 1043.8 | 1110.8 | 1450.1 | 4911.1 | 11089.0 | 15777.2 | 15562.4 | 14558.3 | 13432.4 | 9877.0 |
| 77.5° | 331.1 | 359.8 | 571.8 | 1757.9 | 6108.1 | 11859.2 | 11632.1 | 9091.7 | 9002.8 | 4954.9 |
| 80° | 157.3 | 183.3 | 321.5 | 705.9 | 2403.6 | 6450.1 | 6418.7 | 4124.5 | 3872.8 | 1337.9 |
| 82.5° | 68.4 | 80.7 | 177.8 | 377.6 | 1075.2 | 2301.0 | 2347.5 | 1403.6 | 1161.4 | 507.5 |
| 85° | 21.9 | 28.7 | 82.1 | 173.7 | 454.2 | 571.8 | 565.0 | 333.8 | 467.9 | 276.3 |
| 87.5° | 0.0 | 0.0 | 27.4 | 39.7 | 46.5 | 32.8 | 36.9 | 28.7 | 130.0 | 76.6 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2195.6 | 0° | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 | 2195.6 |
| 2223.0 | 2.5° | 2206.6 | 2184.7 | 2146.4 | 2110.8 | 2079.4 | 2047.9 | 2028.7 | 2001.4 | 1998.7 | 1998.7 |
| 2258.6 | 5° | 2221.6 | 2186.1 | 2117.7 | 2045.2 | 1961.7 | 1882.4 | 1803.0 | 1726.4 | 1701.8 | 1684.0 |
| 2316.0 | 7.5° | 2265.4 | 2209.3 | 2101.3 | 1963.1 | 1804.4 | 1630.7 | 1508.9 | 1377.6 | 1327.0 | 1299.6 |
| 2392.6 | 10° | 2328.3 | 2251.7 | 2087.6 | 1845.4 | 1588.3 | 1351.6 | 1177.9 | 1035.6 | 980.9 | 957.6 |
| 2476.1 | 12.5° | 2398.1 | 2303.7 | 2062.9 | 1699.1 | 1351.6 | 1068.4 | 898.8 | 833.1 | 824.9 | 824.9 |
| 2575.9 | 15° | 2481.6 | 2366.6 | 2020.5 | 1526.7 | 1104.0 | 845.4 | 785.2 | 788.0 | 796.2 | 801.6 |
| 2673.1 | 17.5° | 2567.7 | 2433.7 | 1953.5 | 1333.8 | 885.1 | 760.6 | 762.0 | 766.1 | 772.9 | 778.4 |
| 2778.4 | 20° | 2660.8 | 2500.7 | 1864.6 | 1128.6 | 759.2 | 736.0 | 740.1 | 744.2 | 749.7 | 752.4 |
| 2876.9 | 22.5° | 2760.6 | 2563.6 | 1759.3 | 927.5 | 716.8 | 715.5 | 716.8 | 720.9 | 727.8 | 727.8 |
| 2991.8 | 25° | 2867.3 | 2633.4 | 1638.9 | 781.1 | 694.9 | 694.9 | 697.7 | 700.4 | 705.9 | 705.9 |
| 3102.6 | 27.5° | 2976.8 | 2697.7 | 1511.6 | 704.5 | 675.8 | 674.4 | 674.4 | 678.5 | 681.3 | 682.6 |
| 3212.1 | 30° | 3097.2 | 2772.9 | 1384.4 | 688.1 | 660.7 | 653.9 | 649.8 | 652.5 | 655.3 | 656.6 |
| 3327.0 | 32.5° | 3220.3 | 2845.4 | 1270.9 | 694.9 | 645.7 | 633.4 | 619.7 | 617.0 | 617.0 | 622.4 |
| 3446.0 | 35° | 3357.1 | 2924.8 | 1183.3 | 718.2 | 637.5 | 603.3 | 581.4 | 569.1 | 570.5 | 578.7 |
| 3588.3 | 37.5° | 3521.2 | 3020.5 | 1119.0 | 738.7 | 632.0 | 569.1 | 533.5 | 518.5 | 508.9 | 518.5 |
| 3783.9 | 40° | 3736.0 | 3161.5 | 1072.5 | 755.1 | 625.2 | 529.4 | 481.5 | 456.9 | 439.1 | 444.6 |
| 4087.6 | 42.5° | 4052.0 | 3383.1 | 1054.7 | 756.5 | 610.1 | 482.9 | 428.2 | 395.4 | 369.4 | 370.7 |
| 4544.5 | 45° | 4495.3 | 3733.3 | 1146.4 | 738.7 | 577.3 | 432.3 | 372.1 | 328.3 | 311.9 | 307.8 |
| 5227.1 | 47.5° | 5102.6 | 4243.5 | 1358.4 | 701.8 | 529.4 | 383.0 | 317.4 | 280.4 | 268.1 | 261.3 |
| 6123.2 | 50° | 5916.6 | 4898.8 | 1593.7 | 660.7 | 481.5 | 336.5 | 272.2 | 249.0 | 240.8 | 233.9 |
| 7186.1 | 52.5° | 6860.5 | 5563.7 | 1786.6 | 619.7 | 433.7 | 295.5 | 243.5 | 229.8 | 223.0 | 217.5 |
| 8212.1 | 55° | 7726.5 | 6021.9 | 1775.7 | 575.9 | 387.1 | 262.7 | 223.0 | 214.8 | 206.6 | 201.1 |
| 9095.8 | 57.5° | 8265.5 | 6086.2 | 1463.8 | 528.0 | 333.8 | 236.7 | 203.8 | 198.4 | 188.8 | 181.9 |
| 9860.6 | 60° | 8513.1 | 5719.6 | 1026.0 | 465.1 | 280.4 | 212.0 | 183.3 | 180.6 | 168.3 | 158.7 |
| 10584.2 | 62.5° | 8558.2 | 5038.4 | 684.0 | 387.1 | 233.9 | 188.8 | 162.8 | 158.7 | 142.3 | 125.9 |
| 11172.5 | 65° | 8374.9 | 4064.3 | 473.3 | 302.3 | 199.7 | 164.2 | 139.5 | 131.3 | 113.5 | 97.1 |
| 11312.0 | 67.5° | 7794.9 | 2853.7 | 329.7 | 217.5 | 169.6 | 130.0 | 110.8 | 108.1 | 94.4 | 80.7 |
| 10600.7 | 70° | 6731.9 | 1626.6 | 220.2 | 162.8 | 134.1 | 88.9 | 87.6 | 90.3 | 76.6 | 65.7 |
| 8660.8 | 72.5° | 5161.5 | 744.2 | 136.8 | 119.0 | 91.7 | 60.2 | 69.8 | 71.1 | 58.8 | 49.2 |
| 5403.6 | 75° | 3038.3 | 318.7 | 86.2 | 76.6 | 46.5 | 39.7 | 50.6 | 52.0 | 39.7 | 31.5 |
| 1975.4 | 77.5° | 1034.2 | 120.4 | 54.7 | 45.1 | 23.3 | 21.9 | 32.8 | 32.8 | 21.9 | 12.3 |
| 396.7 | 80° | 235.3 | 45.1 | 27.4 | 17.8 | 10.9 | 9.6 | 10.9 | 9.6 | 5.5 | 1.4 |
| 121.8 | 82.5° | 67.0 | 17.8 | 10.9 | 6.8 | 4.1 | 4.1 | 1.4 | 0.0 | 0.0 | 0.0 |
| 42.4 | 85° | 19.2 | 8.2 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15.0 | 87.5° | 8.2 | 1.4 | 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> |
| 2195.6 |
| 2005.5 |
| 1692.2 |
| 1303.7 |
| 957.6 |
| 824.9 |
| 801.6 |
| 778.4 |
| 753.8 |
| 730.5 |
| 707.3 |
| 684.0 |
| 659.4 |
| 626.5 |
| 582.8 |
| 515.7 |
| 441.9 |
| 365.3 |
| 302.3 |
| 257.2 |
| 232.6 |
| 216.1 |
| 198.4 |
| 180.6 |
| 156.0 |
| 117.6 |
| 91.7 |
| 76.6 |
| 60.2 |
| 43.8 |
| 27.4 |
| 9.6 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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