

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: P951023

Luminaire Tested: **GALN-SB5B-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951023
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-SB5B-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 450mA 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: 23181 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

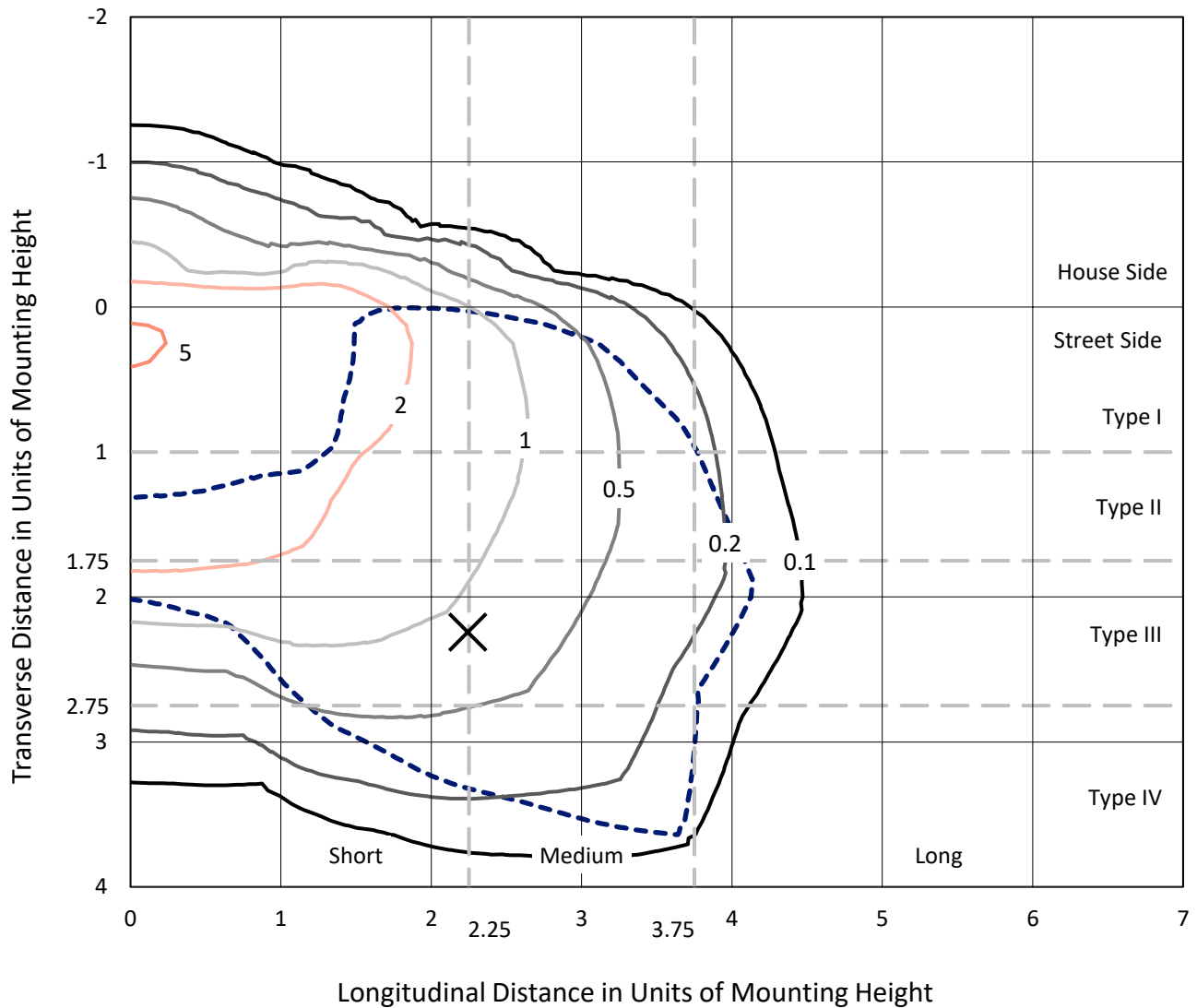
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

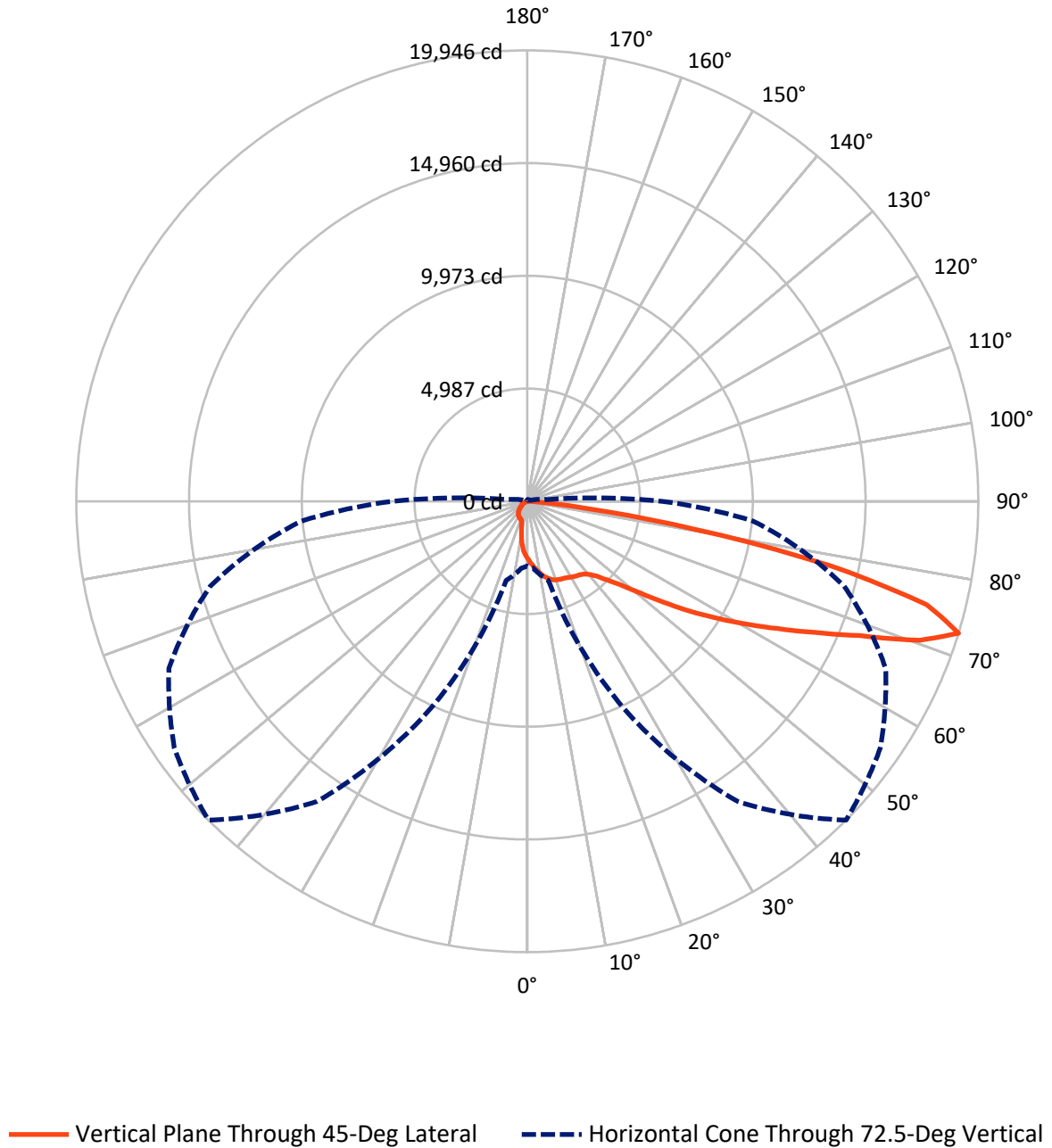
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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 | 2435.7 | 0.0 | 2435.7 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 20745.3 | 0.0 | 20745.3 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 23181.0 | 0.0 | 23181.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 239.3 | 1.0 |
| 10°-20° | 699.3 | 3.0 |
| 20°-30° | 1148.4 | 5.0 |
| 30°-40° | 1628.6 | 7.0 |
| 40°-50° | 2692.0 | 11.6 |
| 50°-60° | 4835.8 | 20.9 |
| 60°-70° | 6714.8 | 29.0 |
| 70°-80° | 4870.7 | 21.0 |
| 80°-90° | 352.1 | 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° | 23181.0 | 100.0 |
| 0°-180° | 23181.0 | 100.0 |

Coefficient of Utilization



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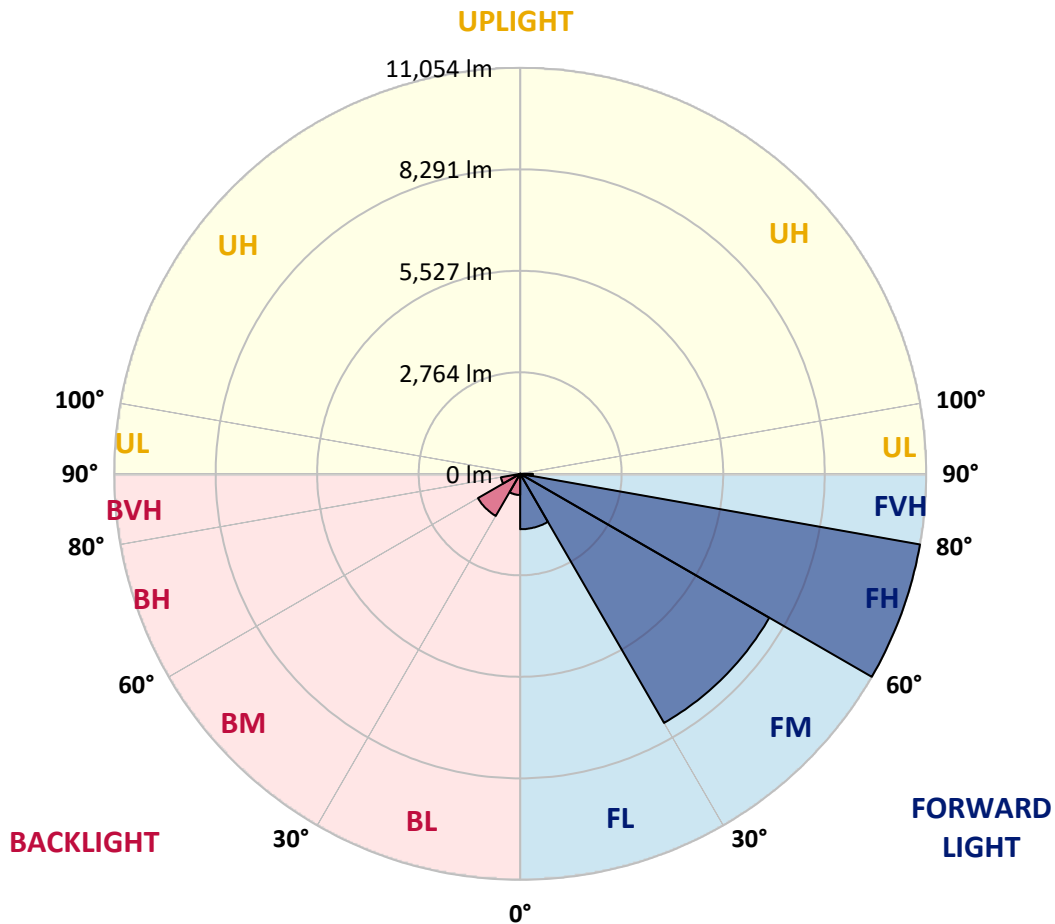
CATALOG NUMBER: GALN-SB5B-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1510.0 | 6.5 | | | |
| FM (30°-60°) | 7831.8 | 33.8 | | | |
| FH (60°-80°) | 11054.4 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 349.2 | 1.5 | | | G3/500 |
| BL (0°-30°) | 576.9 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1324.7 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 531.1 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.0 | 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° | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 |
| 2.5° | 2773.7 | 2778.4 | 2775.3 | 2756.3 | 2724.7 | 2707.2 | 2697.8 | 2666.1 | 2645.5 | 2609.1 |
| 5° | 3028.4 | 3047.4 | 3036.4 | 2998.4 | 2938.3 | 2895.5 | 2882.9 | 2818.0 | 2759.5 | 2691.4 |
| 7.5° | 3299.0 | 3308.5 | 3287.9 | 3238.9 | 3158.2 | 3085.4 | 3074.3 | 2984.1 | 2890.8 | 2786.4 |
| 10° | 3533.2 | 3544.3 | 3512.6 | 3441.4 | 3349.6 | 3259.5 | 3243.6 | 3144.0 | 3033.2 | 2905.0 |
| 12.5° | 3729.4 | 3740.5 | 3699.3 | 3613.9 | 3512.6 | 3419.3 | 3403.4 | 3299.0 | 3177.2 | 3034.8 |
| 15° | 3878.1 | 3898.7 | 3843.3 | 3751.5 | 3642.4 | 3549.0 | 3541.1 | 3438.3 | 3319.6 | 3161.4 |
| 17.5° | 3965.1 | 3985.7 | 3933.5 | 3822.7 | 3729.4 | 3650.3 | 3640.8 | 3555.3 | 3444.6 | 3292.7 |
| 20° | 3979.4 | 3998.4 | 3943.0 | 3846.5 | 3768.9 | 3705.7 | 3700.9 | 3639.2 | 3558.5 | 3412.9 |
| 22.5° | 3936.7 | 3960.4 | 3909.8 | 3832.2 | 3778.4 | 3745.2 | 3738.9 | 3704.1 | 3658.2 | 3534.8 |
| 25° | 3892.4 | 3911.3 | 3873.4 | 3805.3 | 3776.9 | 3773.7 | 3778.4 | 3772.1 | 3762.6 | 3658.2 |
| 27.5° | 3889.2 | 3909.8 | 3867.0 | 3802.2 | 3786.3 | 3819.6 | 3824.3 | 3854.4 | 3862.3 | 3770.5 |
| 30° | 3916.1 | 3930.3 | 3889.2 | 3821.2 | 3813.2 | 3889.2 | 3890.8 | 3944.6 | 3957.2 | 3865.5 |
| 32.5° | 3974.6 | 3990.5 | 3949.3 | 3849.6 | 3838.6 | 3944.6 | 3949.3 | 4020.5 | 4041.1 | 3966.7 |
| 35° | 4112.3 | 4131.3 | 4083.8 | 3928.8 | 3889.2 | 3996.8 | 4011.0 | 4094.9 | 4136.0 | 4074.3 |
| 37.5° | 4455.6 | 4400.3 | 4335.4 | 4088.6 | 4004.7 | 4079.1 | 4102.8 | 4200.9 | 4273.7 | 4202.5 |
| 40° | 5308.5 | 5134.4 | 4931.9 | 4360.7 | 4207.2 | 4254.7 | 4273.7 | 4371.8 | 4471.5 | 4401.8 |
| 42.5° | 6588.5 | 6382.8 | 6056.9 | 4987.3 | 4512.6 | 4536.3 | 4550.6 | 4636.0 | 4776.8 | 4721.5 |
| 45° | 7729.3 | 7655.0 | 7322.7 | 6056.9 | 5083.8 | 4966.7 | 4984.1 | 5028.4 | 5235.7 | 5215.1 |
| 47.5° | 8605.9 | 8563.2 | 8306.9 | 7284.7 | 6049.0 | 5493.6 | 5542.7 | 5563.2 | 5862.3 | 5935.1 |
| 50° | 9280.0 | 9264.1 | 9034.7 | 8376.5 | 7310.0 | 6270.5 | 6287.9 | 6243.6 | 6691.4 | 6871.8 |
| 52.5° | 9916.0 | 9969.8 | 9800.5 | 9390.7 | 8656.5 | 7287.9 | 7284.7 | 7075.9 | 7680.3 | 7952.4 |
| 55° | 10490.4 | 10509.4 | 10526.8 | 10425.5 | 10011.0 | 8446.1 | 8416.0 | 8074.3 | 8827.4 | 9109.1 |
| 57.5° | 11029.9 | 11037.8 | 11192.9 | 11400.2 | 11420.8 | 9689.8 | 9634.4 | 9224.6 | 10080.6 | 10281.5 |
| 60° | 11392.3 | 11428.7 | 11756.2 | 12332.1 | 12583.7 | 10973.0 | 10942.9 | 10525.2 | 11355.9 | 11449.2 |
| 62.5° | 10870.1 | 11091.6 | 11917.6 | 13060.0 | 13681.8 | 12395.4 | 12381.2 | 11988.8 | 12697.6 | 12621.7 |
| 65° | 8798.9 | 9173.9 | 10626.5 | 13552.1 | 14759.3 | 13984.0 | 14004.6 | 13586.9 | 14075.8 | 13829.0 |
| 67.5° | 6155.0 | 6550.6 | 8268.9 | 13591.6 | 15963.4 | 15849.5 | 15968.2 | 15313.1 | 15539.4 | 14985.6 |
| 70° | 4256.3 | 4460.4 | 5579.0 | 12740.4 | 16901.7 | 18419.1 | 18415.9 | 17433.3 | 16995.1 | 15512.5 |
| 72.5° | 2862.3 | 2968.3 | 3623.4 | 10107.5 | 16211.8 | 19946.0 | 19854.2 | 19053.6 | 17485.6 | 14507.7 |
| 75° | 1207.3 | 1284.8 | 1677.2 | 5680.3 | 12825.8 | 18248.2 | 17999.8 | 16838.4 | 15536.2 | 11423.9 |
| 77.5° | 382.9 | 416.1 | 661.4 | 2033.2 | 7064.8 | 13716.6 | 13454.0 | 10515.7 | 10412.9 | 5730.9 |
| 80° | 182.0 | 212.0 | 371.8 | 816.4 | 2780.0 | 7460.4 | 7424.0 | 4770.5 | 4479.4 | 1547.5 |
| 82.5° | 79.1 | 93.4 | 205.7 | 436.7 | 1243.7 | 2661.4 | 2715.2 | 1623.4 | 1343.3 | 587.0 |
| 85° | 25.3 | 33.2 | 94.9 | 200.9 | 525.3 | 661.4 | 653.5 | 386.1 | 541.1 | 319.6 |
| 87.5° | 0.0 | 0.0 | 31.6 | 45.9 | 53.8 | 38.0 | 42.7 | 33.2 | 150.3 | 88.6 |
| 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° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2539.5 | 0° | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 | 2539.5 |
| 2571.2 | 2.5° | 2552.2 | 2526.9 | 2482.6 | 2441.4 | 2405.0 | 2368.6 | 2346.5 | 2314.8 | 2311.7 | 2311.7 |
| 2612.3 | 5° | 2569.6 | 2528.5 | 2449.3 | 2365.5 | 2269.0 | 2177.2 | 2085.4 | 1996.8 | 1968.3 | 1947.8 |
| 2678.8 | 7.5° | 2620.2 | 2555.4 | 2430.4 | 2270.5 | 2087.0 | 1886.1 | 1745.2 | 1593.3 | 1534.8 | 1503.1 |
| 2767.4 | 10° | 2693.0 | 2604.4 | 2414.5 | 2134.5 | 1837.0 | 1563.3 | 1362.3 | 1197.8 | 1134.5 | 1107.6 |
| 2863.9 | 12.5° | 2773.7 | 2664.5 | 2386.0 | 1965.2 | 1563.3 | 1235.7 | 1039.5 | 963.6 | 954.1 | 954.1 |
| 2979.4 | 15° | 2870.2 | 2737.3 | 2337.0 | 1765.8 | 1276.9 | 977.8 | 908.2 | 911.4 | 920.9 | 927.2 |
| 3091.7 | 17.5° | 2969.9 | 2814.8 | 2259.5 | 1542.7 | 1023.7 | 879.7 | 881.3 | 886.1 | 894.0 | 900.3 |
| 3213.6 | 20° | 3077.5 | 2892.4 | 2156.6 | 1305.4 | 878.2 | 851.3 | 856.0 | 860.7 | 867.1 | 870.2 |
| 3327.5 | 22.5° | 3193.0 | 2965.2 | 2034.8 | 1072.8 | 829.1 | 827.5 | 829.1 | 833.9 | 841.8 | 841.8 |
| 3460.4 | 25° | 3316.4 | 3045.9 | 1895.5 | 903.5 | 803.8 | 803.8 | 807.0 | 810.1 | 816.4 | 816.4 |
| 3588.6 | 27.5° | 3443.0 | 3120.2 | 1748.4 | 814.9 | 781.6 | 780.1 | 780.1 | 784.8 | 788.0 | 789.5 |
| 3715.1 | 30° | 3582.2 | 3207.2 | 1601.2 | 795.9 | 764.2 | 756.3 | 751.6 | 754.7 | 757.9 | 759.5 |
| 3848.1 | 32.5° | 3724.6 | 3291.1 | 1469.9 | 803.8 | 746.8 | 732.6 | 716.8 | 713.6 | 713.6 | 719.9 |
| 3985.7 | 35° | 3882.9 | 3382.9 | 1368.7 | 830.7 | 737.3 | 697.8 | 672.5 | 658.2 | 659.8 | 669.3 |
| 4150.3 | 37.5° | 4072.7 | 3493.6 | 1294.3 | 854.4 | 731.0 | 658.2 | 617.1 | 599.7 | 588.6 | 599.7 |
| 4376.5 | 40° | 4321.2 | 3656.6 | 1240.5 | 873.4 | 723.1 | 612.3 | 557.0 | 528.5 | 507.9 | 514.2 |
| 4727.8 | 42.5° | 4686.7 | 3912.9 | 1219.9 | 875.0 | 705.7 | 558.5 | 495.2 | 457.3 | 427.2 | 428.8 |
| 5256.3 | 45° | 5199.3 | 4318.0 | 1325.9 | 854.4 | 667.7 | 500.0 | 430.4 | 379.7 | 360.8 | 356.0 |
| 6045.8 | 47.5° | 5901.8 | 4908.2 | 1571.2 | 811.7 | 612.3 | 443.0 | 367.1 | 324.4 | 310.1 | 302.2 |
| 7082.2 | 50° | 6843.3 | 5666.1 | 1843.3 | 764.2 | 557.0 | 389.2 | 314.9 | 288.0 | 278.5 | 270.6 |
| 8311.6 | 52.5° | 7935.0 | 6435.1 | 2066.4 | 716.8 | 501.6 | 341.8 | 281.6 | 265.8 | 257.9 | 251.6 |
| 9498.3 | 55° | 8936.6 | 6965.1 | 2053.8 | 666.1 | 447.8 | 303.8 | 257.9 | 248.4 | 238.9 | 232.6 |
| 10520.4 | 57.5° | 9560.0 | 7039.5 | 1693.0 | 610.8 | 386.1 | 273.7 | 235.8 | 229.4 | 218.4 | 210.4 |
| 11404.9 | 60° | 9846.4 | 6615.4 | 1186.7 | 538.0 | 324.4 | 245.3 | 212.0 | 208.9 | 194.6 | 183.5 |
| 12241.9 | 62.5° | 9898.6 | 5827.5 | 791.1 | 447.8 | 270.6 | 218.4 | 188.3 | 183.5 | 164.6 | 145.6 |
| 12922.3 | 65° | 9686.6 | 4700.9 | 547.5 | 349.7 | 231.0 | 189.9 | 161.4 | 151.9 | 131.3 | 112.3 |
| 13083.7 | 67.5° | 9015.7 | 3300.6 | 381.3 | 251.6 | 196.2 | 150.3 | 128.2 | 125.0 | 109.2 | 93.4 |
| 12260.9 | 70° | 7786.3 | 1881.3 | 254.7 | 188.3 | 155.1 | 102.8 | 101.3 | 104.4 | 88.6 | 75.9 |
| 10017.3 | 72.5° | 5969.9 | 860.7 | 158.2 | 137.7 | 106.0 | 69.6 | 80.7 | 82.3 | 68.0 | 57.0 |
| 6249.9 | 75° | 3514.2 | 368.7 | 99.7 | 88.6 | 53.8 | 45.9 | 58.5 | 60.1 | 45.9 | 36.4 |
| 2284.8 | 77.5° | 1196.2 | 139.2 | 63.3 | 52.2 | 26.9 | 25.3 | 38.0 | 38.0 | 25.3 | 14.2 |
| 458.9 | 80° | 272.1 | 52.2 | 31.6 | 20.6 | 12.7 | 11.1 | 12.7 | 11.1 | 6.3 | 1.6 |
| 140.8 | 82.5° | 77.5 | 20.6 | 12.7 | 7.9 | 4.7 | 4.7 | 1.6 | 0.0 | 0.0 | 0.0 |
| 49.1 | 85° | 22.2 | 9.5 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.4 | 87.5° | 9.5 | 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 |

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|-------------|
| <u>180°</u> |
| 2539.5 |
| 2319.6 |
| 1957.3 |
| 1507.9 |
| 1107.6 |
| 954.1 |
| 927.2 |
| 900.3 |
| 871.8 |
| 844.9 |
| 818.0 |
| 791.1 |
| 762.6 |
| 724.7 |
| 674.0 |
| 596.5 |
| 511.1 |
| 422.5 |
| 349.7 |
| 297.5 |
| 269.0 |
| 250.0 |
| 229.4 |
| 208.9 |
| 180.4 |
| 136.1 |
| 106.0 |
| 88.6 |
| 69.6 |
| 50.6 |
| 31.6 |
| 11.1 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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