

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: P943038

Luminaire Tested: **GALN-SB7B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943038
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-SB7B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA 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: 26366 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

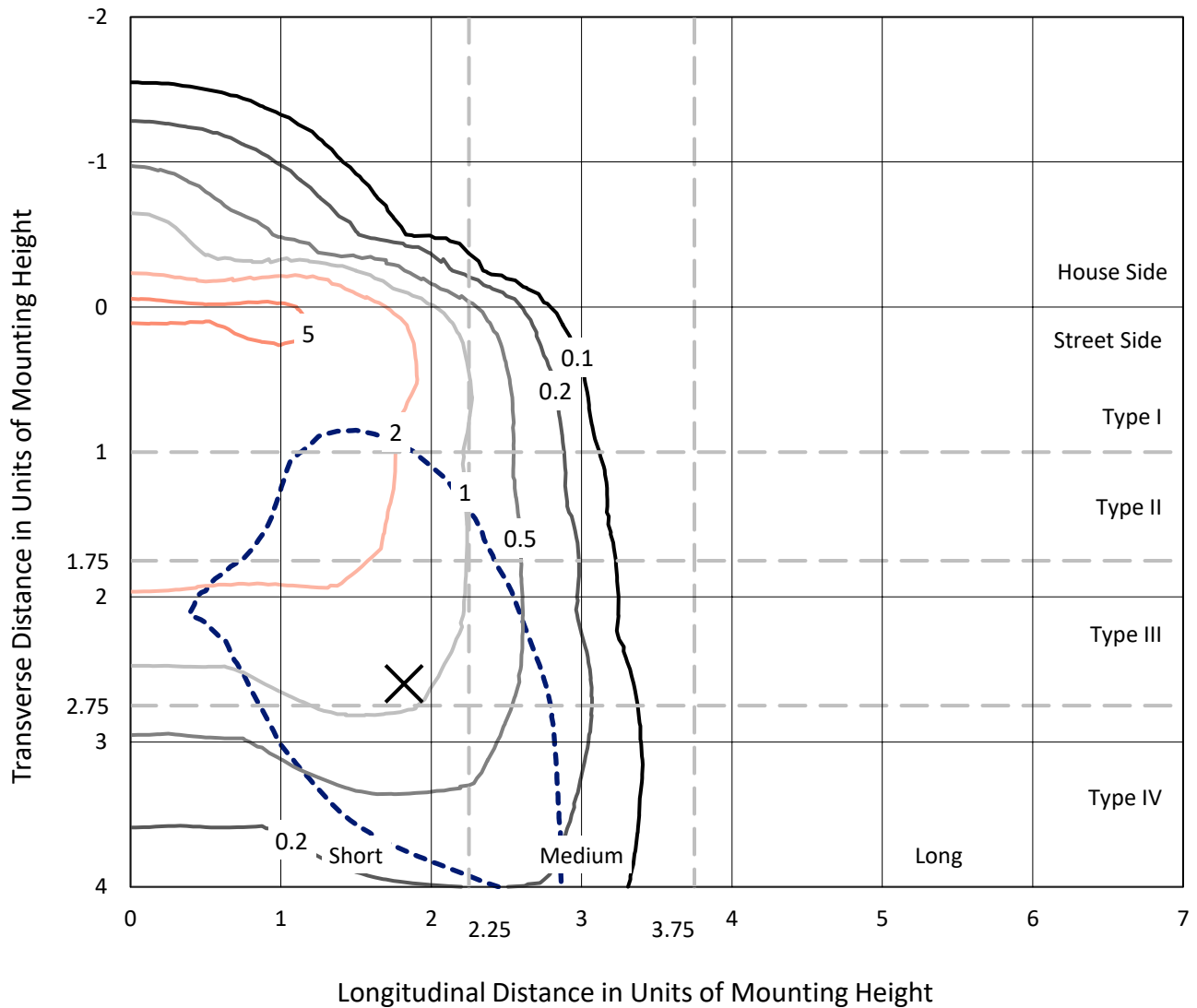
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

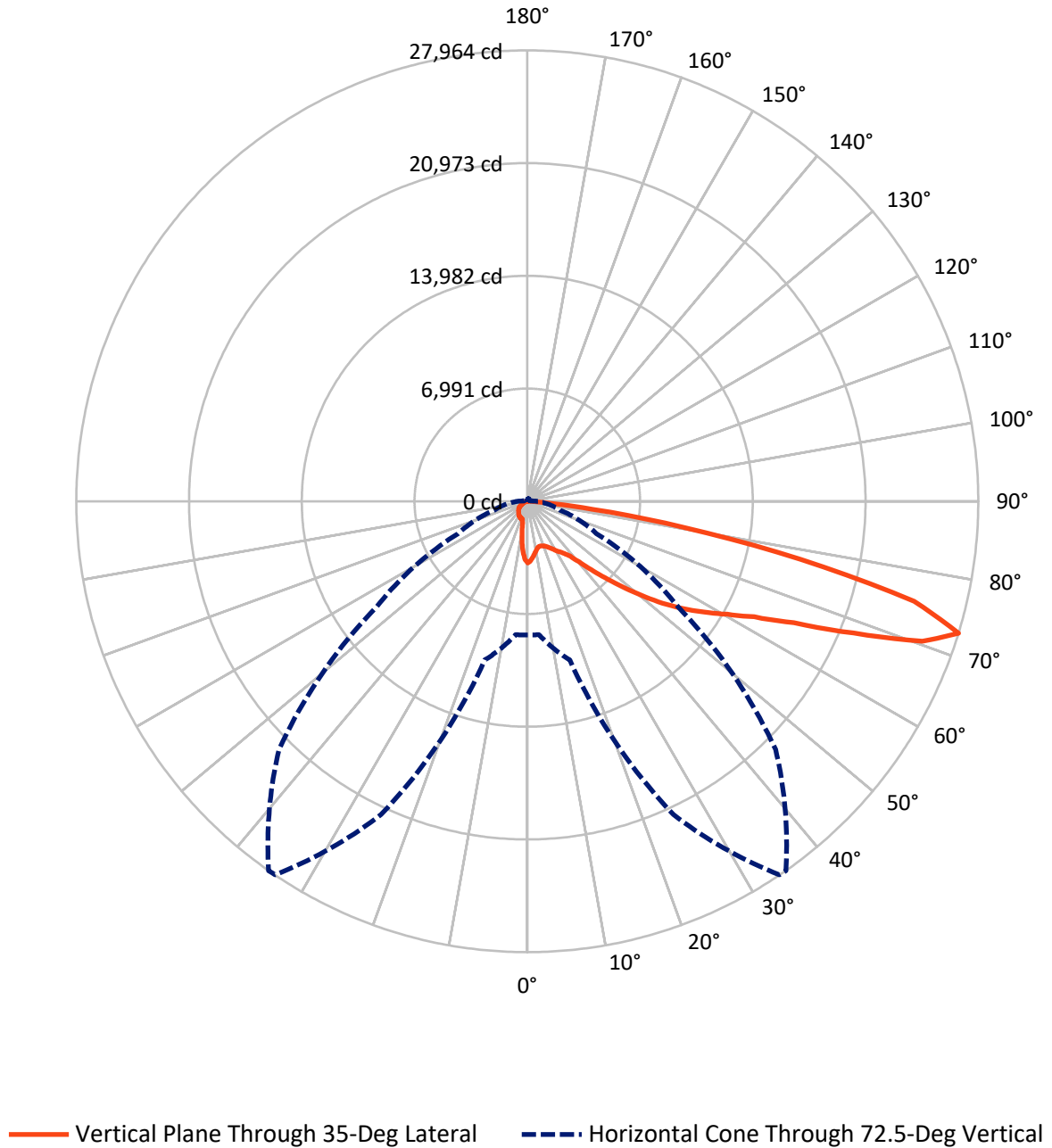
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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 | 2967.4 | 0.0 | 2967.4 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 23398.6 | 0.0 | 23398.6 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 26366.0 | 0.0 | 26366.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 314.0 | 1.2 |
| 10°-20° | 734.6 | 2.8 |
| 20°-30° | 1193.3 | 4.5 |
| 30°-40° | 1991.0 | 7.6 |
| 40°-50° | 3767.1 | 14.3 |
| 50°-60° | 5985.9 | 22.7 |
| 60°-70° | 7405.0 | 28.1 |
| 70°-80° | 4603.0 | 17.5 |
| 80°-90° | 372.0 | 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° | 26366.0 | 100.0 |
| 0°-180° | 26366.0 | 100.0 |

Coefficient of Utilization



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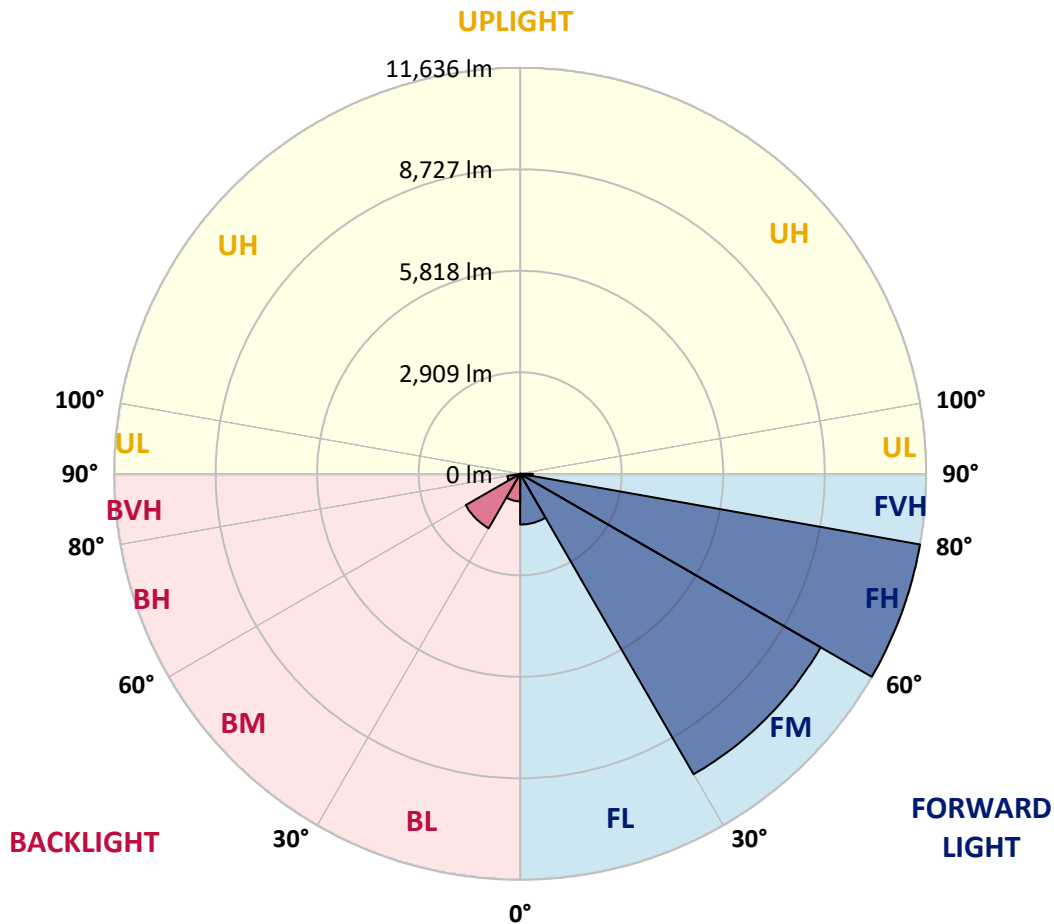
CATALOG NUMBER: GALN-SB7B-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1453.4 | 5.5 | | | |
| FM (30°-60°) | 9942.6 | 37.7 | | | |
| FH (60°-80°) | 11635.6 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 366.9 | 1.4 | | | G3/500 |
| BL (0°-30°) | 788.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1801.5 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 372.4 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.1 | 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° | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 |
| 2.5° | 3651.3 | 3682.2 | 3688.0 | 3697.7 | 3697.7 | 3709.3 | 3728.6 | 3755.6 | 3800.1 | 3823.2 |
| 5° | 3365.4 | 3388.6 | 3417.5 | 3440.7 | 3485.2 | 3491.0 | 3566.3 | 3639.7 | 3742.1 | 3819.4 |
| 7.5° | 3077.5 | 3104.6 | 3143.2 | 3199.2 | 3257.2 | 3274.6 | 3388.6 | 3512.2 | 3674.5 | 3819.4 |
| 10° | 2874.7 | 2876.6 | 2911.4 | 2967.4 | 3060.1 | 3081.4 | 3220.5 | 3396.3 | 3599.1 | 3796.2 |
| 12.5° | 2760.7 | 2774.2 | 2789.7 | 2832.2 | 2921.0 | 2934.6 | 3083.3 | 3290.0 | 3523.8 | 3782.7 |
| 15° | 2760.7 | 2770.4 | 2780.0 | 2801.3 | 2872.7 | 2884.3 | 3015.7 | 3222.4 | 3485.2 | 3788.5 |
| 17.5° | 2789.7 | 2805.1 | 2797.4 | 2822.5 | 2897.9 | 2905.6 | 3021.5 | 3203.1 | 3483.2 | 3825.2 |
| 20° | 2859.2 | 2870.8 | 2855.4 | 2870.8 | 2946.2 | 2961.6 | 3081.4 | 3239.8 | 3516.1 | 3888.9 |
| 22.5° | 2969.3 | 2975.1 | 2938.4 | 2950.0 | 3027.3 | 3046.6 | 3185.7 | 3344.1 | 3595.3 | 3991.3 |
| 25° | 3108.4 | 3120.0 | 3064.0 | 3077.5 | 3150.9 | 3174.1 | 3334.5 | 3500.6 | 3720.9 | 4132.4 |
| 27.5° | 3268.8 | 3274.6 | 3226.3 | 3224.4 | 3319.0 | 3351.9 | 3514.1 | 3693.8 | 3888.9 | 4310.1 |
| 30° | 3452.3 | 3469.7 | 3423.3 | 3415.6 | 3535.4 | 3562.4 | 3722.8 | 3931.4 | 4136.2 | 4576.7 |
| 32.5° | 3597.2 | 3610.7 | 3583.7 | 3603.0 | 3724.7 | 3746.0 | 3975.9 | 4267.6 | 4524.5 | 4955.3 |
| 35° | 3805.9 | 3813.6 | 3751.8 | 3786.5 | 3925.6 | 3979.7 | 4321.7 | 4739.0 | 5013.3 | 5430.6 |
| 37.5° | 4561.2 | 4561.2 | 4298.5 | 4126.6 | 4259.9 | 4308.2 | 4795.0 | 5332.1 | 5616.1 | 6068.1 |
| 40° | 5606.4 | 5589.0 | 5204.6 | 4853.0 | 4835.6 | 4930.2 | 5469.2 | 6079.7 | 6394.6 | 6833.2 |
| 42.5° | 6721.1 | 6694.1 | 6170.5 | 5822.8 | 5764.8 | 5797.7 | 6247.8 | 7001.2 | 7321.9 | 7766.3 |
| 45° | 7710.3 | 7702.5 | 7223.4 | 6755.9 | 6651.6 | 6755.9 | 7219.5 | 8079.2 | 8309.1 | 8776.7 |
| 47.5° | 8539.0 | 8539.0 | 8189.4 | 7884.1 | 7830.0 | 7891.9 | 8535.2 | 9275.1 | 9253.8 | 9852.7 |
| 50° | 9493.4 | 9485.7 | 9153.4 | 9022.0 | 9078.0 | 9165.0 | 10049.8 | 10534.7 | 10231.4 | 10909.5 |
| 52.5° | 10161.8 | 10208.2 | 10094.2 | 10073.0 | 10358.9 | 10509.6 | 11587.6 | 11767.3 | 11106.5 | 11912.2 |
| 55° | 10691.2 | 10745.3 | 10876.7 | 11025.4 | 11576.0 | 11773.1 | 13077.1 | 12936.1 | 11838.7 | 12781.5 |
| 57.5° | 11440.8 | 11363.5 | 11566.3 | 11860.0 | 12750.6 | 12988.2 | 14520.2 | 14039.2 | 12428.0 | 13486.7 |
| 60° | 12350.7 | 12362.3 | 12397.1 | 12768.0 | 13923.3 | 14228.5 | 15942.1 | 15082.4 | 12806.6 | 13919.4 |
| 62.5° | 13444.2 | 13461.5 | 13533.0 | 14102.9 | 15497.8 | 15785.6 | 17456.7 | 15936.3 | 12980.5 | 13797.7 |
| 65° | 13368.8 | 13442.2 | 14240.1 | 16189.4 | 17891.4 | 18175.4 | 19224.4 | 16535.2 | 12717.8 | 12684.9 |
| 67.5° | 12178.8 | 12298.5 | 13633.5 | 18681.6 | 21500.2 | 21817.1 | 21361.1 | 16653.1 | 11583.7 | 9864.3 |
| 70° | 10617.8 | 10660.3 | 12265.7 | 20922.6 | 25678.9 | 25999.6 | 23273.7 | 15356.8 | 8790.2 | 5502.1 |
| 72.5° | 8291.8 | 8301.4 | 10185.0 | 21442.3 | 27947.0 | 27964.4 | 21772.6 | 11400.2 | 4727.4 | 2113.5 |
| 75° | 5923.2 | 5865.3 | 6821.6 | 17389.1 | 24587.4 | 24784.5 | 16322.7 | 5347.5 | 1806.3 | 998.8 |
| 77.5° | 3176.1 | 3239.8 | 3860.0 | 10312.5 | 16985.4 | 17321.5 | 8906.1 | 1541.7 | 919.6 | 680.0 |
| 80° | 981.4 | 1035.5 | 1582.2 | 4721.6 | 9620.9 | 9823.8 | 3301.6 | 685.8 | 641.4 | 484.9 |
| 82.5° | 309.1 | 320.7 | 738.0 | 1984.1 | 3993.3 | 4086.0 | 956.3 | 388.3 | 438.5 | 320.7 |
| 85° | 88.9 | 90.8 | 328.4 | 739.9 | 987.2 | 1006.5 | 268.5 | 150.7 | 251.1 | 199.0 |
| 87.5° | 9.7 | 30.9 | 123.6 | 123.6 | 86.9 | 85.0 | 29.0 | 32.8 | 71.5 | 25.1 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3821.3 | 0° | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 | 3821.3 |
| 3838.7 | 2.5° | 3829.0 | 3831.0 | 3805.9 | 3763.4 | 3717.0 | 3678.4 | 3630.1 | 3591.4 | 3564.4 | 3556.6 |
| 3873.5 | 5° | 3856.1 | 3842.6 | 3771.1 | 3641.6 | 3487.1 | 3353.8 | 3205.0 | 3087.2 | 3009.9 | 2977.1 |
| 3910.2 | 7.5° | 3896.7 | 3858.0 | 3701.5 | 3446.5 | 3150.9 | 2888.2 | 2621.6 | 2414.9 | 2283.5 | 2217.8 |
| 3945.0 | 10° | 3931.4 | 3854.2 | 3585.6 | 3164.5 | 2712.4 | 2314.4 | 1955.1 | 1705.9 | 1566.8 | 1501.1 |
| 3985.5 | 12.5° | 3964.3 | 3852.2 | 3434.9 | 2830.2 | 2217.8 | 1731.0 | 1396.8 | 1273.1 | 1234.5 | 1221.0 |
| 4051.2 | 15° | 4026.1 | 3858.0 | 3245.6 | 2447.7 | 1725.2 | 1307.9 | 1186.2 | 1184.3 | 1192.0 | 1188.1 |
| 4151.7 | 17.5° | 4111.1 | 3863.8 | 3031.2 | 2042.0 | 1331.1 | 1153.4 | 1147.6 | 1164.9 | 1176.5 | 1170.7 |
| 4277.2 | 20° | 4221.2 | 3887.0 | 2803.2 | 1640.2 | 1143.7 | 1114.7 | 1128.2 | 1143.7 | 1153.4 | 1143.7 |
| 4445.3 | 22.5° | 4375.8 | 3927.6 | 2554.0 | 1317.6 | 1083.8 | 1091.5 | 1103.1 | 1120.5 | 1130.2 | 1116.6 |
| 4659.8 | 25° | 4565.1 | 3991.3 | 2308.6 | 1145.6 | 1054.8 | 1064.5 | 1081.9 | 1101.2 | 1112.8 | 1099.3 |
| 4930.2 | 27.5° | 4810.5 | 4093.7 | 2082.6 | 1107.0 | 1025.8 | 1031.6 | 1056.8 | 1085.7 | 1101.2 | 1083.8 |
| 5314.7 | 30° | 5165.9 | 4261.8 | 1887.5 | 1124.4 | 1008.5 | 994.9 | 1029.7 | 1070.3 | 1087.7 | 1072.2 |
| 5838.2 | 32.5° | 5637.3 | 4499.4 | 1767.7 | 1151.4 | 1000.7 | 952.4 | 985.3 | 1037.4 | 1066.4 | 1056.8 |
| 6522.1 | 35° | 6255.5 | 4860.7 | 1721.3 | 1182.3 | 994.9 | 908.0 | 931.2 | 987.2 | 1037.4 | 1047.1 |
| 7383.8 | 37.5° | 7005.1 | 5363.0 | 1734.9 | 1195.9 | 977.5 | 871.3 | 882.9 | 931.2 | 996.9 | 1027.8 |
| 8353.6 | 40° | 7857.1 | 5948.3 | 1812.1 | 1182.3 | 958.2 | 840.4 | 842.3 | 879.0 | 937.0 | 983.3 |
| 9396.8 | 42.5° | 8736.1 | 6632.2 | 1955.1 | 1132.1 | 940.8 | 813.3 | 807.5 | 832.7 | 871.3 | 904.1 |
| 10438.1 | 45° | 9572.6 | 7335.5 | 2096.1 | 1062.6 | 919.6 | 786.3 | 772.8 | 782.4 | 790.2 | 803.7 |
| 11452.4 | 47.5° | 10302.9 | 7830.0 | 2055.6 | 998.8 | 890.6 | 755.4 | 732.2 | 728.3 | 705.1 | 703.2 |
| 12358.4 | 50° | 10807.1 | 7938.2 | 1825.7 | 935.0 | 848.1 | 720.6 | 683.9 | 660.7 | 620.1 | 600.8 |
| 13036.5 | 52.5° | 10967.5 | 7511.3 | 1491.4 | 871.3 | 778.6 | 674.2 | 622.1 | 585.4 | 535.1 | 517.8 |
| 13426.8 | 55° | 10754.9 | 6674.7 | 1192.0 | 794.0 | 682.0 | 612.4 | 554.5 | 506.2 | 465.6 | 444.3 |
| 13469.3 | 57.5° | 10235.3 | 5610.3 | 942.8 | 703.2 | 579.6 | 542.9 | 484.9 | 436.6 | 401.8 | 380.6 |
| 12997.9 | 60° | 9373.6 | 4455.0 | 745.7 | 595.0 | 494.6 | 467.5 | 407.6 | 376.7 | 345.8 | 320.7 |
| 11780.8 | 62.5° | 8065.7 | 3179.9 | 585.4 | 471.4 | 413.4 | 382.5 | 347.7 | 324.6 | 287.9 | 253.1 |
| 9591.9 | 65° | 6294.2 | 1945.4 | 452.1 | 345.8 | 332.3 | 316.8 | 295.6 | 274.3 | 229.9 | 195.1 |
| 6257.5 | 67.5° | 3970.1 | 921.5 | 322.6 | 260.8 | 262.7 | 255.0 | 245.4 | 228.0 | 195.1 | 164.2 |
| 2803.2 | 70° | 1748.4 | 446.3 | 212.5 | 199.0 | 195.1 | 195.1 | 202.9 | 197.1 | 166.1 | 137.2 |
| 973.7 | 72.5° | 595.0 | 239.6 | 158.4 | 150.7 | 141.0 | 139.1 | 170.0 | 164.2 | 133.3 | 106.3 |
| 484.9 | 75° | 311.0 | 160.3 | 115.9 | 108.2 | 85.0 | 102.4 | 135.2 | 127.5 | 94.7 | 69.5 |
| 320.7 | 77.5° | 202.9 | 114.0 | 79.2 | 69.5 | 48.3 | 67.6 | 100.5 | 88.9 | 56.0 | 34.8 |
| 210.6 | 80° | 127.5 | 75.3 | 46.4 | 32.8 | 23.2 | 36.7 | 54.1 | 38.6 | 21.3 | 7.7 |
| 123.6 | 82.5° | 67.6 | 38.6 | 17.4 | 11.6 | 9.7 | 11.6 | 13.5 | 9.7 | 3.9 | 0.0 |
| 63.8 | 85° | 27.0 | 13.5 | 5.8 | 3.9 | 1.9 | 0.0 | 3.9 | 1.9 | 0.0 | 0.0 |
| 11.6 | 87.5° | 9.7 | 1.9 | 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> |
|-------------|
| 3821.3 |
| 3570.2 |
| 2988.7 |
| 2227.5 |
| 1503.0 |
| 1217.1 |
| 1186.2 |
| 1168.8 |
| 1141.8 |
| 1114.7 |
| 1097.3 |
| 1083.8 |
| 1070.3 |
| 1056.8 |
| 1047.1 |
| 1035.5 |
| 998.8 |
| 917.7 |
| 811.4 |
| 701.3 |
| 602.8 |
| 515.8 |
| 444.3 |
| 376.7 |
| 314.9 |
| 247.3 |
| 189.3 |
| 160.3 |
| 131.4 |
| 100.5 |
| 63.8 |
| 30.9 |
| 5.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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