

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: P947154

Luminaire Tested: **GALN-SB2C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13707 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

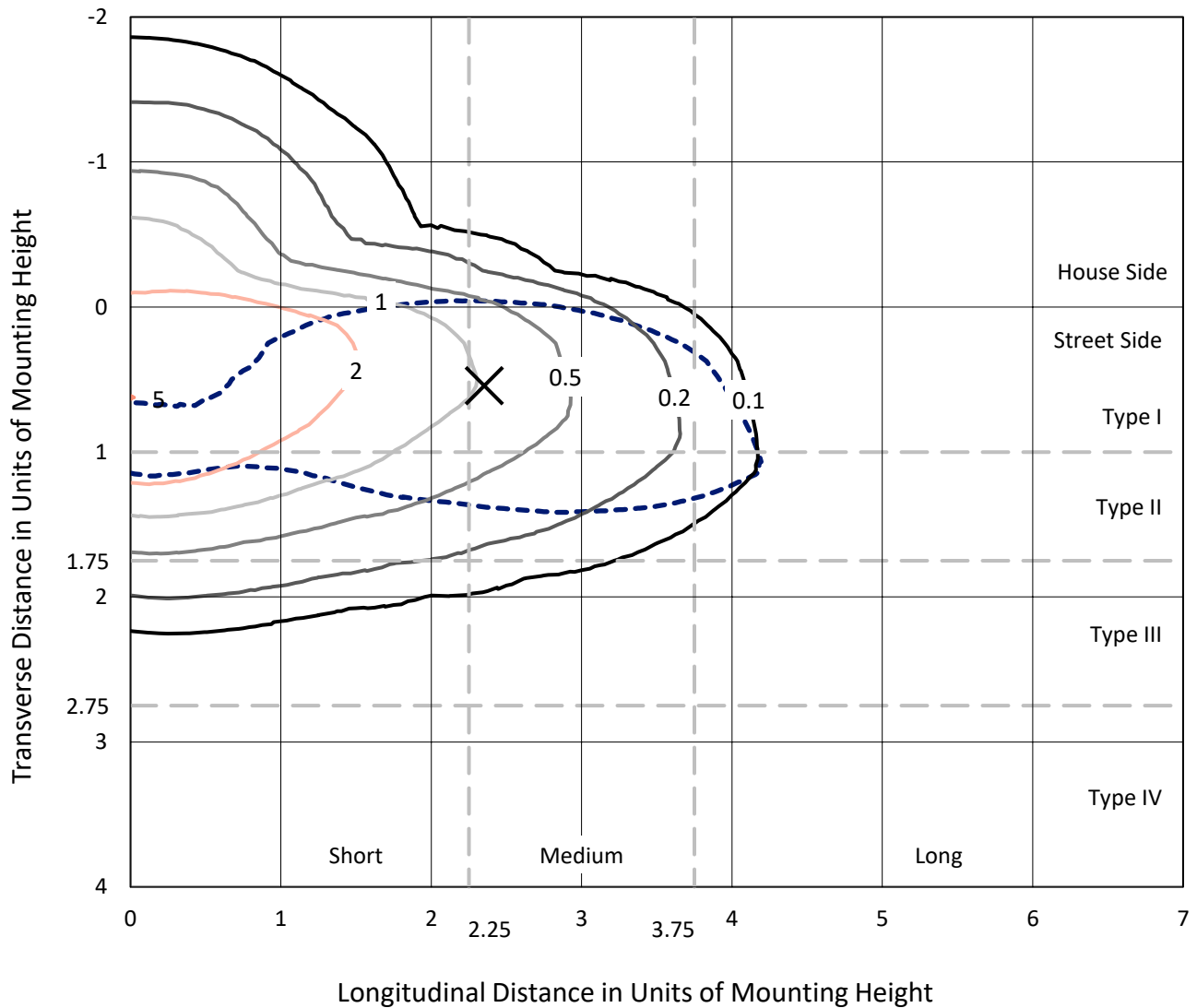
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

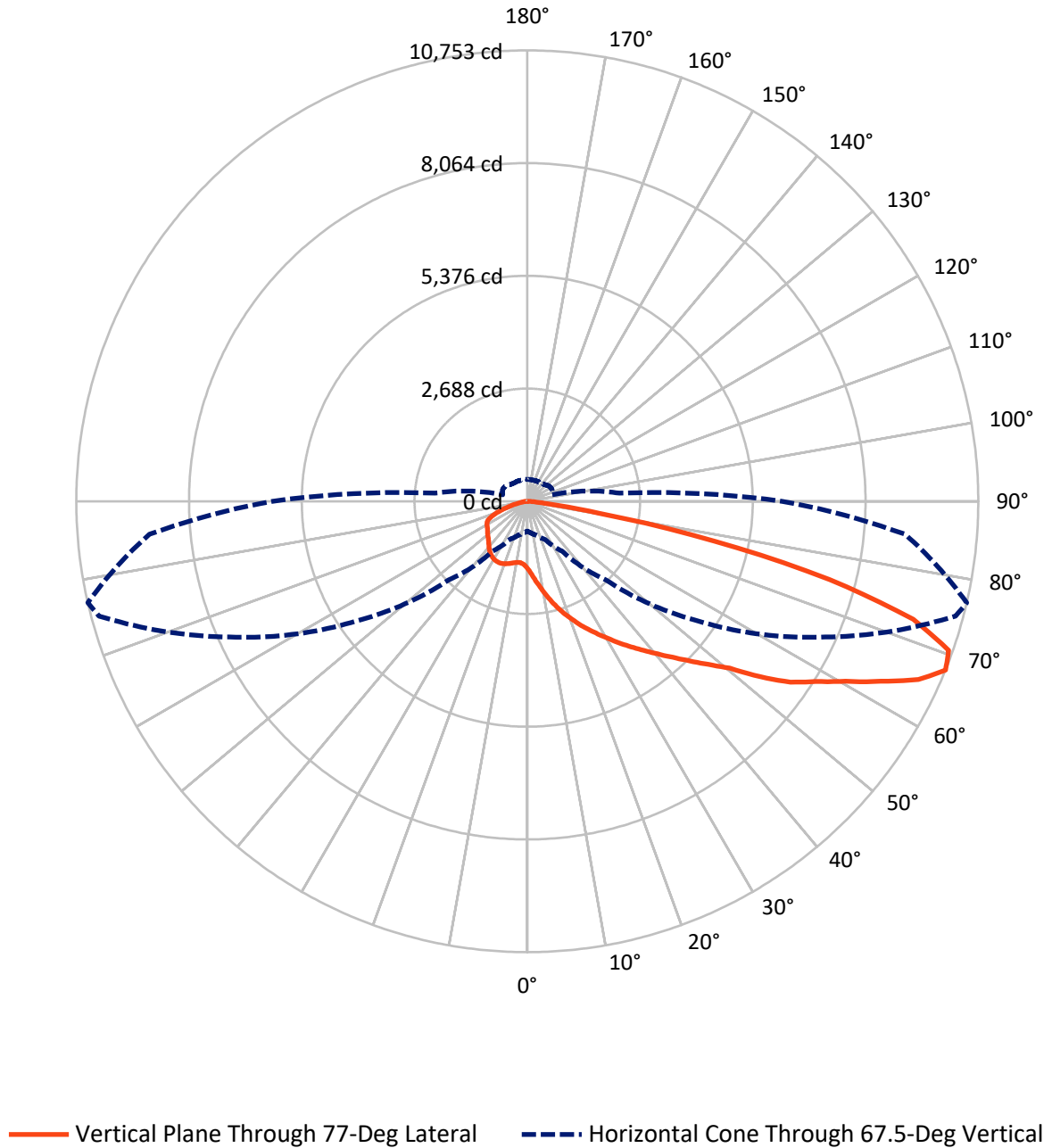
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2592.8 | 0.0 | 2592.8 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 11114.2 | 0.0 | 11114.2 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 13707.0 | 0.0 | 13707.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 172.4 | 1.3 |
| 10°-20° | 619.3 | 4.5 |
| 20°-30° | 1169.3 | 8.5 |
| 30°-40° | 1883.7 | 13.7 |
| 40°-50° | 2576.6 | 18.8 |
| 50°-60° | 2906.4 | 21.2 |
| 60°-70° | 2712.8 | 19.8 |
| 70°-80° | 1487.1 | 10.8 |
| 80°-90° | 179.4 | 1.3 |
| 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° | 13707.0 | 100.0 |
| 0°-180° | 13707.0 | 100.0 |

Coefficient of Utilization

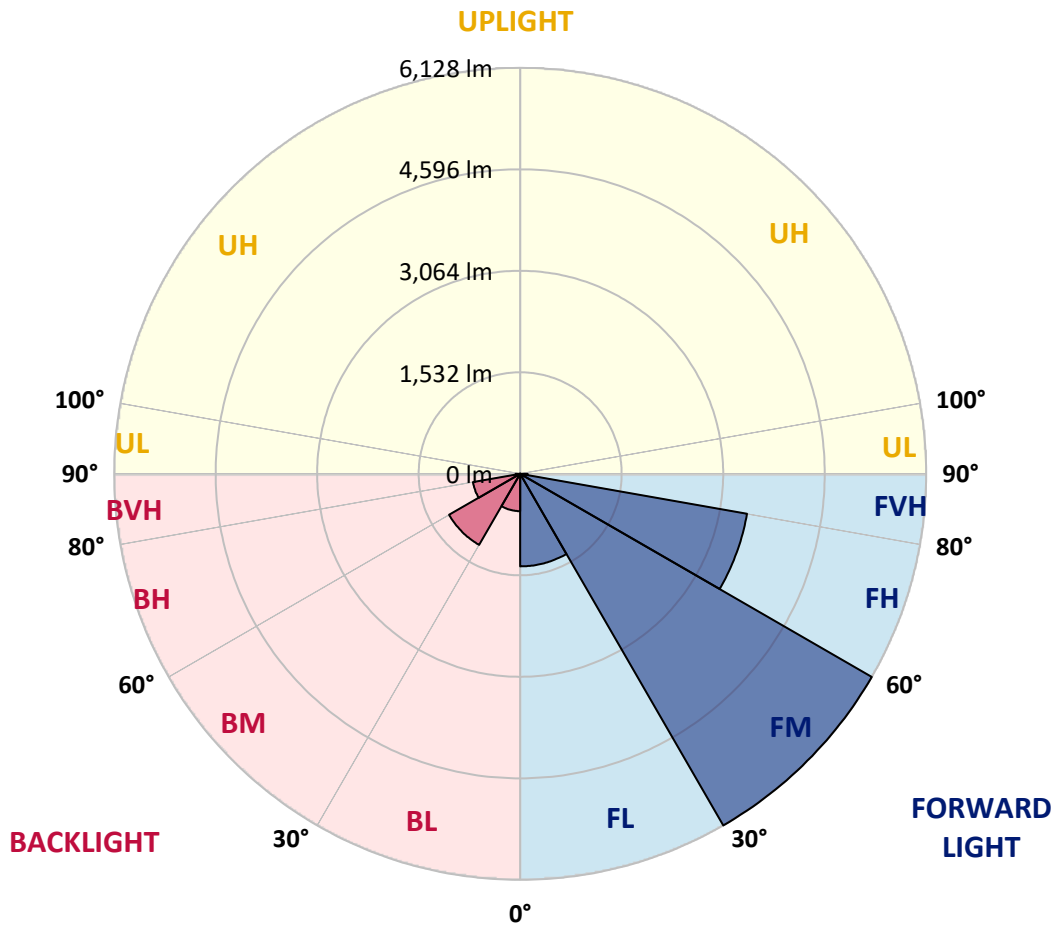


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1397.3 | 10.2 | | | |
| FM (30°-60°) | 6128.2 | 44.7 | | | |
| FH (60°-80°) | 3476.5 | 25.4 | | | G2/5000 |
| FVH (80°-90°) | 112.2 | 0.8 | | | G2/225 |
| BL (0°-30°) | 563.7 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1238.5 | 9.0 | B2/2500 | | |
| BH (60°-80°) | 723.4 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 67.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 |
| 2.5° | 2013.7 | 2027.8 | 2010.1 | 2010.1 | 1950.7 | 1919.6 | 1860.1 | 1814.9 | 1733.5 | 1719.3 |
| 5° | 2380.2 | 2397.9 | 2373.1 | 2362.5 | 2292.5 | 2228.1 | 2128.3 | 2030.0 | 1884.9 | 1870.0 |
| 7.5° | 2663.9 | 2686.6 | 2664.6 | 2653.3 | 2591.0 | 2518.9 | 2402.1 | 2264.9 | 2060.4 | 2031.4 |
| 10° | 2895.3 | 2898.8 | 2891.7 | 2896.0 | 2847.2 | 2787.7 | 2668.2 | 2508.3 | 2252.8 | 2213.2 |
| 12.5° | 3026.2 | 3042.5 | 3056.6 | 3082.1 | 3073.6 | 3036.8 | 2929.2 | 2738.2 | 2456.6 | 2405.7 |
| 15° | 3087.7 | 3116.0 | 3147.9 | 3206.6 | 3254.0 | 3263.2 | 3181.1 | 2985.1 | 2663.9 | 2602.4 |
| 17.5° | 3109.7 | 3136.6 | 3186.8 | 3271.7 | 3373.6 | 3442.2 | 3405.4 | 3225.0 | 2869.1 | 2798.4 |
| 20° | 3220.8 | 3228.5 | 3259.0 | 3339.6 | 3450.0 | 3563.9 | 3591.5 | 3455.7 | 3072.2 | 2992.2 |
| 22.5° | 3458.5 | 3442.9 | 3451.4 | 3488.2 | 3567.5 | 3677.8 | 3740.8 | 3659.4 | 3280.9 | 3188.9 |
| 25° | 3851.2 | 3805.9 | 3760.6 | 3718.2 | 3758.5 | 3820.8 | 3892.2 | 3863.2 | 3499.5 | 3382.8 |
| 27.5° | 4347.2 | 4292.0 | 4192.2 | 4052.8 | 4004.0 | 4025.9 | 4057.8 | 4052.1 | 3701.9 | 3583.7 |
| 30° | 4835.4 | 4771.0 | 4652.1 | 4450.5 | 4321.7 | 4263.7 | 4239.6 | 4223.4 | 3921.9 | 3796.0 |
| 32.5° | 5225.2 | 5174.3 | 5057.6 | 4831.8 | 4645.1 | 4546.0 | 4466.0 | 4408.0 | 4151.9 | 4025.9 |
| 35° | 5566.3 | 5518.9 | 5385.1 | 5138.9 | 4935.9 | 4830.4 | 4725.7 | 4601.9 | 4391.0 | 4263.7 |
| 37.5° | 5877.6 | 5830.2 | 5646.9 | 5390.8 | 5186.3 | 5113.5 | 5020.1 | 4809.9 | 4630.9 | 4510.6 |
| 40° | 6074.3 | 6063.7 | 5892.5 | 5602.4 | 5390.1 | 5354.0 | 5322.9 | 5051.2 | 4896.9 | 4785.1 |
| 42.5° | 6124.5 | 6147.9 | 6012.0 | 5773.6 | 5571.2 | 5542.2 | 5615.1 | 5324.3 | 5195.5 | 5088.7 |
| 45° | 6003.5 | 6070.8 | 5981.6 | 5819.6 | 5700.0 | 5684.4 | 5874.1 | 5622.9 | 5526.0 | 5428.3 |
| 47.5° | 5697.2 | 5811.1 | 5774.3 | 5751.7 | 5734.7 | 5801.9 | 6101.9 | 5939.9 | 5900.2 | 5815.3 |
| 50° | 5078.8 | 5294.6 | 5359.0 | 5501.9 | 5666.0 | 5893.2 | 6309.2 | 6285.9 | 6337.5 | 6251.9 |
| 52.5° | 4009.7 | 4306.8 | 4680.4 | 5038.5 | 5455.2 | 5862.7 | 6537.0 | 6782.6 | 7000.5 | 6953.8 |
| 55° | 3309.9 | 3443.6 | 3730.9 | 4387.5 | 5046.2 | 5734.7 | 6639.6 | 7183.7 | 7658.5 | 7616.8 |
| 57.5° | 2772.2 | 2891.7 | 3068.6 | 3617.0 | 4427.8 | 5443.9 | 6703.3 | 7428.5 | 8109.2 | 8105.0 |
| 60° | 2195.5 | 2322.2 | 2503.3 | 2891.7 | 3705.4 | 4941.5 | 6689.2 | 7707.3 | 8684.4 | 8719.8 |
| 62.5° | 1544.6 | 1684.0 | 1884.9 | 2247.2 | 2967.5 | 4290.6 | 6400.5 | 7909.0 | 9361.6 | 9457.8 |
| 65° | 1015.3 | 1107.3 | 1258.7 | 1571.5 | 2211.1 | 3453.5 | 5849.3 | 7935.2 | 10086.1 | 10248.8 |
| 67.5° | 711.8 | 747.2 | 836.3 | 1006.1 | 1457.5 | 2648.4 | 4971.2 | 7664.2 | 10569.4 | 10752.6 |
| 70° | 555.4 | 573.1 | 618.4 | 686.3 | 915.6 | 1780.9 | 3809.4 | 6959.4 | 10466.1 | 10657.1 |
| 72.5° | 479.7 | 496.7 | 513.7 | 522.2 | 614.2 | 1099.5 | 2580.4 | 5818.9 | 9493.2 | 9622.7 |
| 75° | 435.1 | 439.4 | 453.5 | 450.7 | 468.4 | 713.2 | 1489.4 | 4239.6 | 7490.1 | 7445.5 |
| 77.5° | 365.8 | 371.5 | 394.8 | 391.3 | 416.0 | 487.5 | 773.4 | 2736.1 | 4855.9 | 4553.1 |
| 80° | 309.9 | 312.7 | 338.2 | 334.0 | 361.6 | 353.1 | 394.8 | 1394.6 | 2059.7 | 1744.8 |
| 82.5° | 107.5 | 133.0 | 258.3 | 266.0 | 275.9 | 213.7 | 227.8 | 568.9 | 629.0 | 481.8 |
| 85° | 52.4 | 55.9 | 131.6 | 186.8 | 186.1 | 107.5 | 111.1 | 203.1 | 198.1 | 155.7 |
| 87.5° | 8.5 | 10.6 | 15.6 | 72.9 | 58.0 | 28.3 | 38.2 | 39.6 | 41.0 | 35.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P947154
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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1608.3 | 0° | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 | 1608.3 |
| 1665.6 | 2.5° | 1625.9 | 1590.6 | 1516.3 | 1447.6 | 1393.9 | 1342.2 | 1313.2 | 1288.4 | 1274.3 | 1271.5 |
| 1743.4 | 5° | 1669.8 | 1596.9 | 1461.8 | 1347.9 | 1273.6 | 1218.4 | 1189.4 | 1171.0 | 1161.8 | 1156.1 |
| 1848.1 | 7.5° | 1732.8 | 1625.9 | 1433.5 | 1304.0 | 1226.2 | 1186.6 | 1171.7 | 1168.9 | 1168.2 | 1168.9 |
| 1974.8 | 10° | 1819.8 | 1673.4 | 1430.7 | 1293.4 | 1228.3 | 1206.4 | 1205.7 | 1206.4 | 1209.2 | 1209.9 |
| 2112.7 | 12.5° | 1913.9 | 1722.2 | 1442.0 | 1302.6 | 1255.2 | 1243.2 | 1241.0 | 1240.3 | 1242.5 | 1243.9 |
| 2252.1 | 15° | 2016.5 | 1786.6 | 1461.1 | 1322.4 | 1284.9 | 1272.2 | 1270.0 | 1265.8 | 1265.1 | 1264.4 |
| 2398.6 | 17.5° | 2121.9 | 1850.2 | 1482.3 | 1343.6 | 1304.0 | 1286.3 | 1278.5 | 1268.6 | 1260.9 | 1258.7 |
| 2550.0 | 20° | 2228.8 | 1913.2 | 1497.2 | 1354.2 | 1305.4 | 1280.7 | 1265.1 | 1248.1 | 1234.7 | 1226.9 |
| 2702.8 | 22.5° | 2342.7 | 1979.0 | 1506.4 | 1351.4 | 1292.7 | 1258.7 | 1230.4 | 1210.6 | 1190.1 | 1176.7 |
| 2857.1 | 25° | 2453.8 | 2036.3 | 1505.7 | 1336.6 | 1267.9 | 1224.8 | 1188.7 | 1163.2 | 1134.9 | 1120.8 |
| 3016.3 | 27.5° | 2560.6 | 2088.0 | 1488.0 | 1310.4 | 1232.5 | 1184.4 | 1141.3 | 1110.9 | 1083.3 | 1069.8 |
| 3176.9 | 30° | 2671.0 | 2131.1 | 1460.4 | 1272.2 | 1190.8 | 1137.7 | 1090.3 | 1064.2 | 1039.4 | 1026.7 |
| 3346.7 | 32.5° | 2780.7 | 2170.8 | 1421.5 | 1224.8 | 1142.7 | 1091.7 | 1045.0 | 1021.0 | 1006.1 | 1006.1 |
| 3529.3 | 35° | 2896.7 | 2198.4 | 1369.8 | 1169.6 | 1091.7 | 1042.9 | 1006.1 | 992.0 | 990.6 | 982.1 |
| 3722.4 | 37.5° | 3019.1 | 2216.0 | 1306.8 | 1113.0 | 1041.5 | 995.5 | 984.2 | 967.2 | 953.1 | 934.7 |
| 3934.7 | 40° | 3147.9 | 2233.7 | 1231.1 | 1054.2 | 988.4 | 963.0 | 958.0 | 935.4 | 895.0 | 849.8 |
| 4175.2 | 42.5° | 3304.2 | 2245.8 | 1152.6 | 995.5 | 932.5 | 924.1 | 931.1 | 892.2 | 827.8 | 793.9 |
| 4465.3 | 45° | 3485.4 | 2265.6 | 1080.4 | 937.5 | 875.2 | 875.2 | 905.0 | 854.0 | 800.9 | 779.7 |
| 4796.5 | 47.5° | 3720.3 | 2311.6 | 1013.2 | 873.8 | 822.2 | 836.3 | 846.9 | 808.0 | 778.3 | 752.1 |
| 5199.8 | 50° | 4059.9 | 2421.9 | 943.9 | 809.4 | 781.8 | 810.1 | 795.3 | 772.6 | 738.0 | 716.7 |
| 5840.8 | 52.5° | 4481.6 | 2487.0 | 882.3 | 751.4 | 747.2 | 775.5 | 754.2 | 733.0 | 706.8 | 678.5 |
| 6326.9 | 55° | 4768.9 | 2499.1 | 830.7 | 709.0 | 723.8 | 721.0 | 713.2 | 694.1 | 680.0 | 642.5 |
| 6806.6 | 57.5° | 5090.1 | 2523.1 | 788.2 | 683.5 | 709.0 | 677.8 | 675.0 | 658.7 | 640.3 | 614.9 |
| 7391.8 | 60° | 5474.3 | 2560.6 | 751.4 | 673.6 | 696.2 | 649.5 | 635.4 | 629.0 | 610.6 | 597.9 |
| 8095.8 | 62.5° | 5893.2 | 2594.6 | 713.9 | 675.0 | 681.4 | 621.9 | 600.7 | 598.6 | 587.3 | 583.0 |
| 8756.6 | 65° | 6179.0 | 2501.9 | 667.2 | 673.6 | 658.0 | 593.6 | 566.7 | 566.0 | 556.8 | 555.4 |
| 9043.2 | 67.5° | 6079.3 | 2208.3 | 604.2 | 653.8 | 634.0 | 565.3 | 535.6 | 532.8 | 520.8 | 521.5 |
| 8743.9 | 70° | 5579.7 | 1789.4 | 517.2 | 605.0 | 604.2 | 539.9 | 503.1 | 493.9 | 477.6 | 480.4 |
| 7602.6 | 72.5° | 4642.9 | 1325.9 | 400.5 | 523.6 | 556.8 | 516.5 | 465.6 | 450.7 | 430.2 | 433.0 |
| 5612.3 | 75° | 3353.1 | 901.4 | 291.5 | 398.3 | 484.7 | 488.9 | 428.8 | 403.3 | 378.5 | 382.8 |
| 3123.8 | 77.5° | 1715.8 | 510.8 | 214.4 | 274.5 | 380.7 | 444.3 | 395.5 | 361.6 | 355.9 | 395.5 |
| 900.7 | 80° | 559.7 | 256.1 | 148.6 | 192.5 | 249.8 | 363.7 | 346.7 | 307.8 | 306.4 | 315.6 |
| 188.9 | 82.5° | 167.0 | 108.3 | 95.5 | 126.7 | 138.0 | 278.8 | 299.3 | 232.8 | 200.2 | 210.8 |
| 63.0 | 85° | 57.3 | 52.4 | 54.5 | 63.0 | 65.8 | 163.4 | 209.4 | 154.2 | 145.8 | 160.6 |
| 14.2 | 87.5° | 13.4 | 18.4 | 15.6 | 14.2 | 14.2 | 39.6 | 81.4 | 64.4 | 89.2 | 59.4 |
| 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> |
|-------------|
| 1608.3 |
| 1271.5 |
| 1155.4 |
| 1171.0 |
| 1210.6 |
| 1244.6 |
| 1263.7 |
| 1260.9 |
| 1229.7 |
| 1177.4 |
| 1120.8 |
| 1069.1 |
| 1025.9 |
| 1006.8 |
| 980.0 |
| 931.8 |
| 843.4 |
| 794.6 |
| 783.3 |
| 751.4 |
| 714.6 |
| 672.9 |
| 643.2 |
| 606.4 |
| 601.4 |
| 583.0 |
| 554.7 |
| 521.5 |
| 483.3 |
| 432.3 |
| 384.2 |
| 389.9 |
| 271.0 |
| 217.9 |
| 158.5 |
| 57.3 |
| 0.0 |

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