

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: P940349

Luminaire Tested: **GALN-SB3B-840-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15973 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

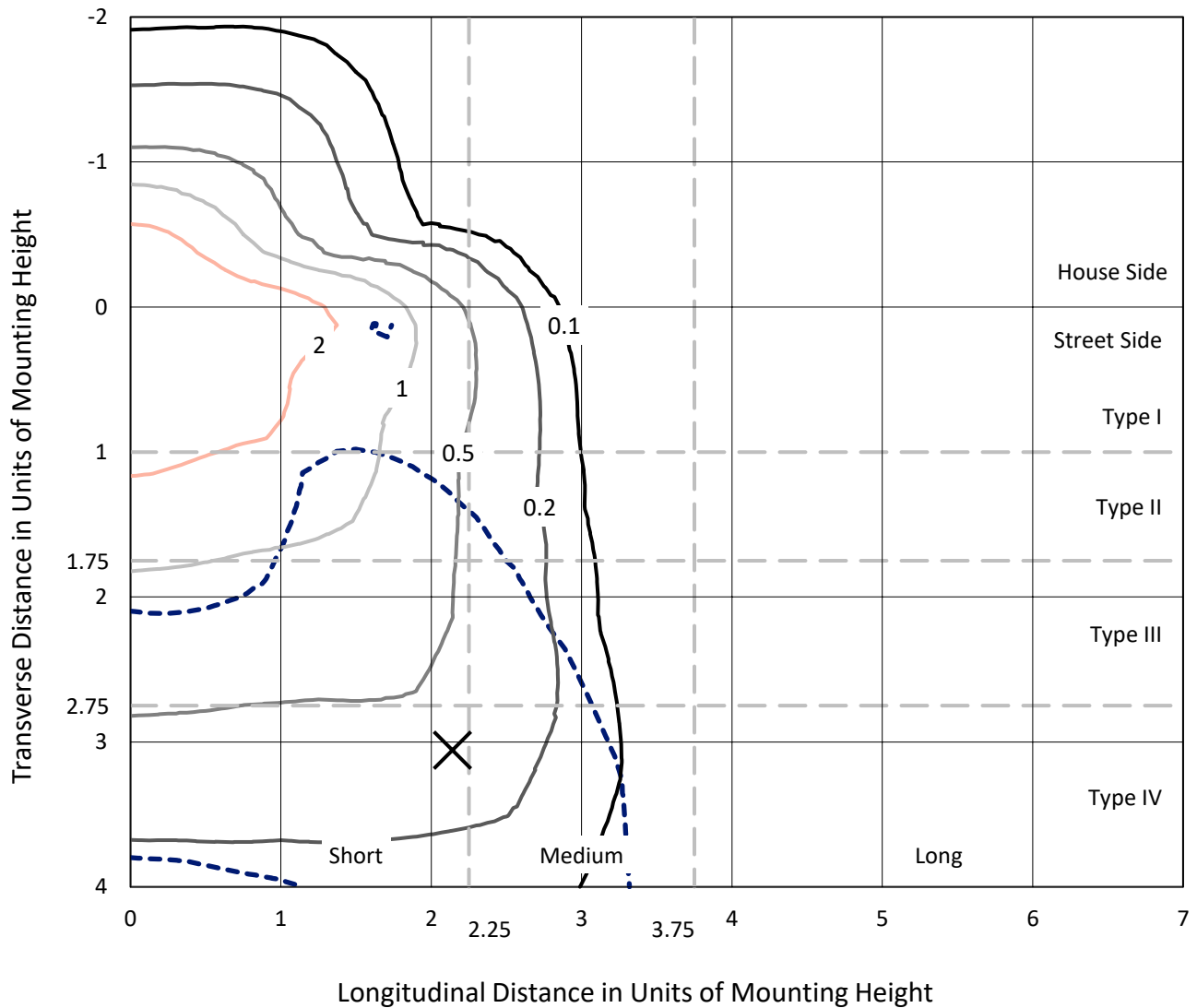
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

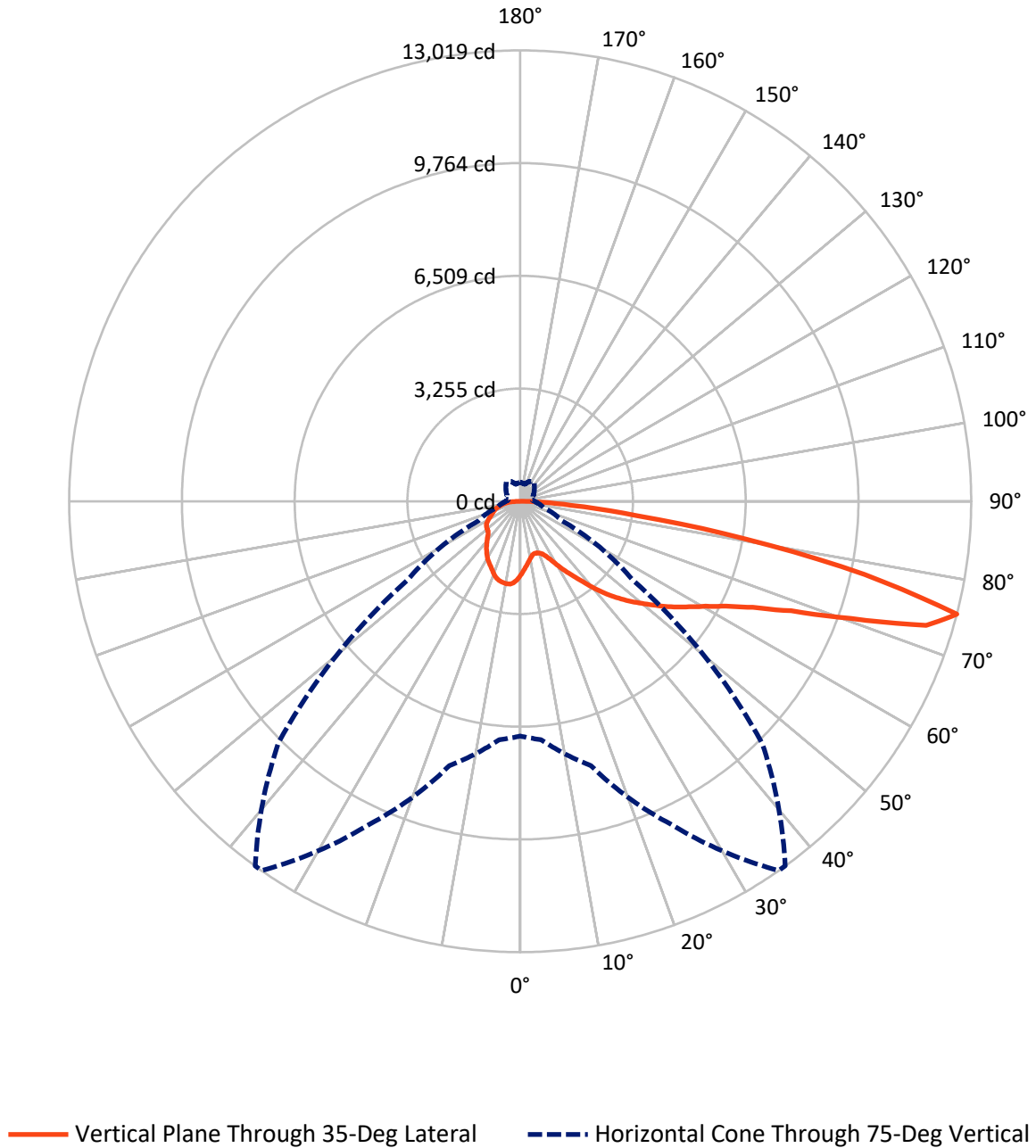
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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 | 3801.2 | 0.0 | 3801.2 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 12171.8 | 0.0 | 12171.8 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 15973.0 | 0.0 | 15973.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 201.5 | 1.3 |
| 10°-20° | 581.3 | 3.6 |
| 20°-30° | 976.1 | 6.1 |
| 30°-40° | 1517.1 | 9.5 |
| 40°-50° | 2251.7 | 14.1 |
| 50°-60° | 3108.6 | 19.5 |
| 60°-70° | 3771.5 | 23.6 |
| 70°-80° | 3116.8 | 19.5 |
| 80°-90° | 448.3 | 2.8 |
| 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° | 15973.0 | 100.0 |
| 0°-180° | 15973.0 | 100.0 |

Coefficient of Utilization



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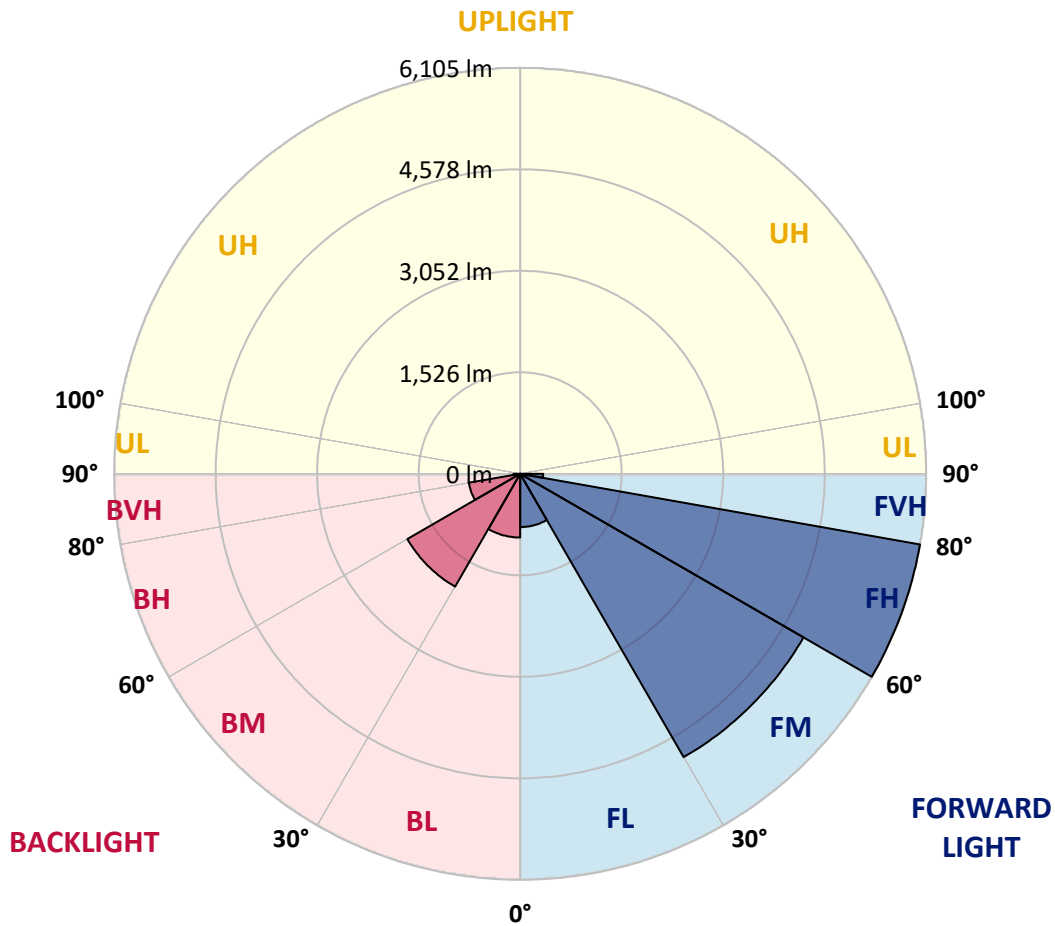
CATALOG NUMBER: GALN-SB3B-840-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 801.0 | 5.0 | | | |
| FM (30°-60°) | 4918.8 | 30.8 | | | |
| FH (60°-80°) | 6104.6 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 347.4 | 2.2 | | | G3/500 |
| BL (0°-30°) | 957.9 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1958.6 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 783.7 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 100.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 |
| 2.5° | 1962.7 | 1974.8 | 1980.0 | 1977.4 | 1990.4 | 1988.6 | 2006.8 | 2029.2 | 2060.3 | 2090.5 |
| 5° | 1811.6 | 1824.6 | 1835.8 | 1846.1 | 1871.2 | 1879.0 | 1907.5 | 1950.6 | 2007.6 | 2065.5 |
| 7.5° | 1670.9 | 1682.1 | 1699.4 | 1718.4 | 1760.7 | 1768.4 | 1815.9 | 1883.3 | 1962.7 | 2047.3 |
| 10° | 1556.0 | 1567.2 | 1585.4 | 1607.0 | 1659.6 | 1669.1 | 1729.6 | 1819.4 | 1923.0 | 2030.1 |
| 12.5° | 1506.8 | 1510.2 | 1520.6 | 1542.2 | 1588.0 | 1594.0 | 1660.5 | 1763.3 | 1884.1 | 2017.1 |
| 15° | 1504.2 | 1511.1 | 1512.0 | 1523.2 | 1561.2 | 1563.8 | 1625.1 | 1727.0 | 1860.0 | 2014.5 |
| 17.5° | 1530.1 | 1535.3 | 1527.5 | 1534.4 | 1566.4 | 1570.7 | 1619.0 | 1709.7 | 1852.2 | 2025.8 |
| 20° | 1599.2 | 1603.5 | 1580.2 | 1570.7 | 1594.0 | 1597.5 | 1645.0 | 1720.9 | 1860.0 | 2049.1 |
| 22.5° | 1746.0 | 1748.6 | 1691.6 | 1652.7 | 1654.5 | 1656.2 | 1697.6 | 1766.7 | 1890.2 | 2091.4 |
| 25° | 1974.8 | 1973.1 | 1882.4 | 1807.3 | 1764.1 | 1754.6 | 1782.2 | 1841.0 | 1941.1 | 2147.5 |
| 27.5° | 2242.5 | 2229.5 | 2138.9 | 2026.6 | 1932.5 | 1918.7 | 1912.6 | 1937.7 | 2013.7 | 2221.8 |
| 30° | 2544.7 | 2532.6 | 2435.1 | 2288.3 | 2157.9 | 2135.4 | 2078.4 | 2065.5 | 2121.6 | 2322.8 |
| 32.5° | 2876.3 | 2868.5 | 2752.0 | 2574.1 | 2399.6 | 2373.7 | 2277.9 | 2243.4 | 2287.4 | 2475.6 |
| 35° | 3154.3 | 3147.4 | 3050.7 | 2867.7 | 2654.4 | 2622.4 | 2524.9 | 2486.0 | 2508.4 | 2671.6 |
| 37.5° | 3405.6 | 3402.2 | 3319.3 | 3175.1 | 2954.9 | 2916.0 | 2806.4 | 2793.4 | 2789.1 | 2929.8 |
| 40° | 3638.8 | 3630.1 | 3543.8 | 3467.8 | 3304.6 | 3269.2 | 3172.5 | 3161.2 | 3128.4 | 3247.6 |
| 42.5° | 3896.9 | 3874.5 | 3749.3 | 3713.9 | 3669.8 | 3640.5 | 3582.6 | 3584.4 | 3511.8 | 3605.9 |
| 45° | 4107.6 | 4094.7 | 3966.0 | 3945.3 | 3992.8 | 3980.7 | 4030.8 | 4043.7 | 3903.0 | 3981.6 |
| 47.5° | 4333.9 | 4321.8 | 4213.0 | 4198.3 | 4327.0 | 4330.4 | 4507.4 | 4511.8 | 4284.7 | 4371.9 |
| 50° | 4612.8 | 4595.5 | 4487.6 | 4505.7 | 4649.9 | 4662.9 | 4986.7 | 4957.3 | 4636.1 | 4768.2 |
| 52.5° | 4796.7 | 4807.1 | 4783.8 | 4813.1 | 5010.0 | 5022.1 | 5458.1 | 5383.0 | 4984.1 | 5159.4 |
| 55° | 4932.3 | 4953.0 | 5025.5 | 5092.9 | 5389.9 | 5402.0 | 5902.8 | 5788.0 | 5272.5 | 5522.0 |
| 57.5° | 5106.7 | 5077.3 | 5212.9 | 5344.2 | 5750.9 | 5782.8 | 6335.4 | 6178.3 | 5528.1 | 5834.6 |
| 60° | 5357.1 | 5336.4 | 5441.7 | 5636.0 | 6155.0 | 6205.9 | 6793.1 | 6529.7 | 5715.5 | 6082.4 |
| 62.5° | 5864.8 | 5813.0 | 5829.4 | 6001.3 | 6664.4 | 6731.8 | 7309.5 | 6836.3 | 5808.7 | 6179.2 |
| 65° | 6623.9 | 6534.9 | 6452.0 | 6571.2 | 7382.0 | 7448.5 | 7892.3 | 7077.2 | 5774.2 | 5991.8 |
| 67.5° | 7579.7 | 7491.7 | 7389.8 | 7502.0 | 8438.9 | 8491.6 | 8611.6 | 7212.8 | 5502.2 | 5269.9 |
| 70° | 8368.1 | 8335.3 | 8457.1 | 8919.0 | 10127.0 | 10128.8 | 9533.8 | 7100.5 | 4757.0 | 3736.3 |
| 72.5° | 8263.6 | 8243.8 | 8885.3 | 10313.6 | 12254.7 | 12208.9 | 10406.8 | 6250.8 | 3204.4 | 1685.5 |
| 75° | 6779.3 | 6907.9 | 7901.8 | 10288.5 | 13018.9 | 13012.8 | 9872.3 | 3973.8 | 1325.5 | 698.6 |
| 77.5° | 3635.3 | 3839.1 | 5130.0 | 7596.1 | 10163.3 | 10316.2 | 6940.8 | 1390.2 | 569.0 | 447.3 |
| 80° | 1185.6 | 1363.5 | 2044.8 | 3867.6 | 6604.0 | 6575.5 | 2974.7 | 545.7 | 389.4 | 316.9 |
| 82.5° | 503.4 | 524.1 | 913.6 | 1826.3 | 3389.2 | 3336.5 | 947.3 | 313.4 | 273.7 | 216.7 |
| 85° | 196.9 | 220.2 | 403.3 | 844.5 | 1467.9 | 1436.0 | 341.9 | 155.4 | 175.3 | 141.6 |
| 87.5° | 64.8 | 78.6 | 144.2 | 289.3 | 456.8 | 440.4 | 83.8 | 53.5 | 76.0 | 64.8 |
| 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° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2128.5 | 0° | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 | 2128.5 |
| 2134.6 | 2.5° | 2146.6 | 2160.5 | 2176.9 | 2201.0 | 2221.8 | 2239.0 | 2257.2 | 2268.4 | 2272.7 | 2285.7 |
| 2138.0 | 5° | 2162.2 | 2192.4 | 2233.0 | 2272.7 | 2311.6 | 2334.9 | 2355.6 | 2366.0 | 2375.5 | 2382.4 |
| 2147.5 | 7.5° | 2188.1 | 2226.9 | 2290.8 | 2342.7 | 2375.5 | 2394.5 | 2408.3 | 2404.8 | 2408.3 | 2410.0 |
| 2157.9 | 10° | 2210.5 | 2264.9 | 2340.9 | 2390.1 | 2415.2 | 2416.1 | 2412.6 | 2400.5 | 2394.5 | 2395.3 |
| 2173.4 | 12.5° | 2237.3 | 2297.8 | 2379.8 | 2421.2 | 2428.1 | 2409.1 | 2394.5 | 2373.7 | 2366.0 | 2362.5 |
| 2196.7 | 15° | 2273.6 | 2342.7 | 2422.1 | 2437.6 | 2420.4 | 2396.2 | 2371.2 | 2337.5 | 2320.2 | 2306.4 |
| 2236.4 | 17.5° | 2317.6 | 2393.6 | 2454.9 | 2443.7 | 2406.6 | 2366.8 | 2326.3 | 2275.3 | 2239.9 | 2225.2 |
| 2290.8 | 20° | 2378.9 | 2447.1 | 2480.0 | 2430.7 | 2374.6 | 2314.2 | 2245.1 | 2182.9 | 2150.1 | 2135.4 |
| 2359.9 | 22.5° | 2453.2 | 2518.8 | 2504.1 | 2408.3 | 2328.8 | 2232.1 | 2145.8 | 2100.0 | 2083.6 | 2073.2 |
| 2448.9 | 25° | 2542.1 | 2598.3 | 2521.4 | 2375.5 | 2253.7 | 2123.3 | 2056.8 | 2042.2 | 2034.4 | 2026.6 |
| 2557.7 | 27.5° | 2657.8 | 2688.1 | 2534.4 | 2327.1 | 2136.3 | 2007.6 | 1983.4 | 1986.0 | 1983.4 | 1970.5 |
| 2708.8 | 30° | 2810.7 | 2804.6 | 2546.4 | 2248.5 | 2001.6 | 1903.1 | 1904.9 | 1916.1 | 1917.8 | 1909.2 |
| 2919.5 | 32.5° | 3011.9 | 2950.6 | 2552.5 | 2146.6 | 1872.9 | 1811.6 | 1813.3 | 1825.4 | 1834.1 | 1819.4 |
| 3194.9 | 35° | 3255.4 | 3120.7 | 2543.0 | 2018.8 | 1773.6 | 1724.4 | 1711.4 | 1714.9 | 1717.5 | 1703.7 |
| 3529.1 | 37.5° | 3539.5 | 3311.5 | 2500.7 | 1877.2 | 1691.6 | 1638.9 | 1611.3 | 1588.0 | 1574.1 | 1561.2 |
| 3907.3 | 40° | 3851.2 | 3519.6 | 2423.0 | 1739.1 | 1600.1 | 1548.2 | 1506.8 | 1462.8 | 1416.1 | 1398.9 |
| 4308.0 | 42.5° | 4177.6 | 3733.7 | 2328.8 | 1607.0 | 1494.7 | 1452.4 | 1408.4 | 1344.5 | 1274.5 | 1239.1 |
| 4724.2 | 45° | 4516.1 | 3953.1 | 2236.4 | 1476.6 | 1386.8 | 1368.6 | 1317.7 | 1240.8 | 1164.9 | 1120.0 |
| 5141.2 | 47.5° | 4847.6 | 4160.3 | 2100.9 | 1345.3 | 1285.7 | 1305.6 | 1265.9 | 1195.1 | 1110.5 | 1039.6 |
| 5554.9 | 50° | 5164.6 | 4354.6 | 1879.0 | 1212.3 | 1203.7 | 1286.6 | 1248.6 | 1146.7 | 1050.0 | 959.3 |
| 5960.7 | 52.5° | 5478.9 | 4511.8 | 1594.9 | 1091.5 | 1159.7 | 1281.4 | 1226.2 | 1113.9 | 995.6 | 900.6 |
| 6342.4 | 55° | 5745.7 | 4592.9 | 1321.1 | 987.8 | 1095.8 | 1237.4 | 1199.4 | 1075.0 | 918.8 | 817.7 |
| 6604.0 | 57.5° | 5897.7 | 4527.3 | 1093.2 | 885.9 | 1007.7 | 1164.9 | 1153.6 | 992.2 | 827.2 | 749.5 |
| 6654.9 | 60° | 5832.0 | 4261.3 | 906.7 | 797.0 | 923.9 | 1086.3 | 1074.2 | 910.1 | 757.3 | 683.9 |
| 6382.1 | 62.5° | 5470.2 | 3754.5 | 759.0 | 719.3 | 848.0 | 1006.0 | 994.7 | 847.1 | 703.7 | 632.9 |
| 5657.6 | 65° | 4741.4 | 3054.2 | 644.2 | 654.5 | 771.1 | 909.3 | 925.7 | 794.4 | 661.4 | 592.4 |
| 4377.0 | 67.5° | 3616.3 | 2212.3 | 554.4 | 598.4 | 696.0 | 814.3 | 861.8 | 756.4 | 626.0 | 560.4 |
| 2532.6 | 70° | 2061.2 | 1256.4 | 478.4 | 544.0 | 629.5 | 726.2 | 812.5 | 726.2 | 588.0 | 533.6 |
| 949.0 | 72.5° | 781.5 | 576.8 | 413.6 | 489.6 | 565.6 | 651.9 | 758.1 | 678.7 | 544.0 | 503.4 |
| 490.5 | 75° | 417.1 | 351.4 | 348.0 | 425.7 | 492.2 | 579.4 | 689.9 | 632.1 | 511.2 | 531.9 |
| 339.4 | 77.5° | 284.1 | 248.7 | 291.0 | 364.4 | 411.9 | 499.1 | 617.4 | 561.3 | 443.0 | 441.2 |
| 234.9 | 80° | 196.9 | 176.2 | 236.6 | 293.6 | 318.6 | 419.7 | 538.8 | 481.8 | 360.9 | 336.8 |
| 145.1 | 82.5° | 118.3 | 114.8 | 177.0 | 219.3 | 225.4 | 323.8 | 446.4 | 404.1 | 295.3 | 257.3 |
| 86.3 | 85° | 64.8 | 68.2 | 113.1 | 128.7 | 131.3 | 226.2 | 349.7 | 312.6 | 227.1 | 190.8 |
| 31.1 | 87.5° | 18.1 | 23.3 | 41.4 | 50.9 | 63.0 | 117.4 | 208.1 | 185.7 | 114.0 | 79.4 |
| 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> |
|-------------|
| 2128.5 |
| 2284.8 |
| 2384.1 |
| 2412.6 |
| 2397.1 |
| 2360.8 |
| 2310.7 |
| 2226.1 |
| 2133.7 |
| 2075.0 |
| 2026.6 |
| 1973.1 |
| 1913.5 |
| 1826.3 |
| 1713.2 |
| 1569.8 |
| 1406.6 |
| 1243.4 |
| 1116.5 |
| 1031.9 |
| 951.6 |
| 890.3 |
| 809.1 |
| 739.2 |
| 673.5 |
| 621.7 |
| 581.1 |
| 550.0 |
| 526.7 |
| 496.5 |
| 549.2 |
| 406.7 |
| 322.1 |
| 259.0 |
| 192.6 |
| 79.4 |
| 0.0 |

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