

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: P951191

Luminaire Tested: **GALN-SB5B-930-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951191  
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-930-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

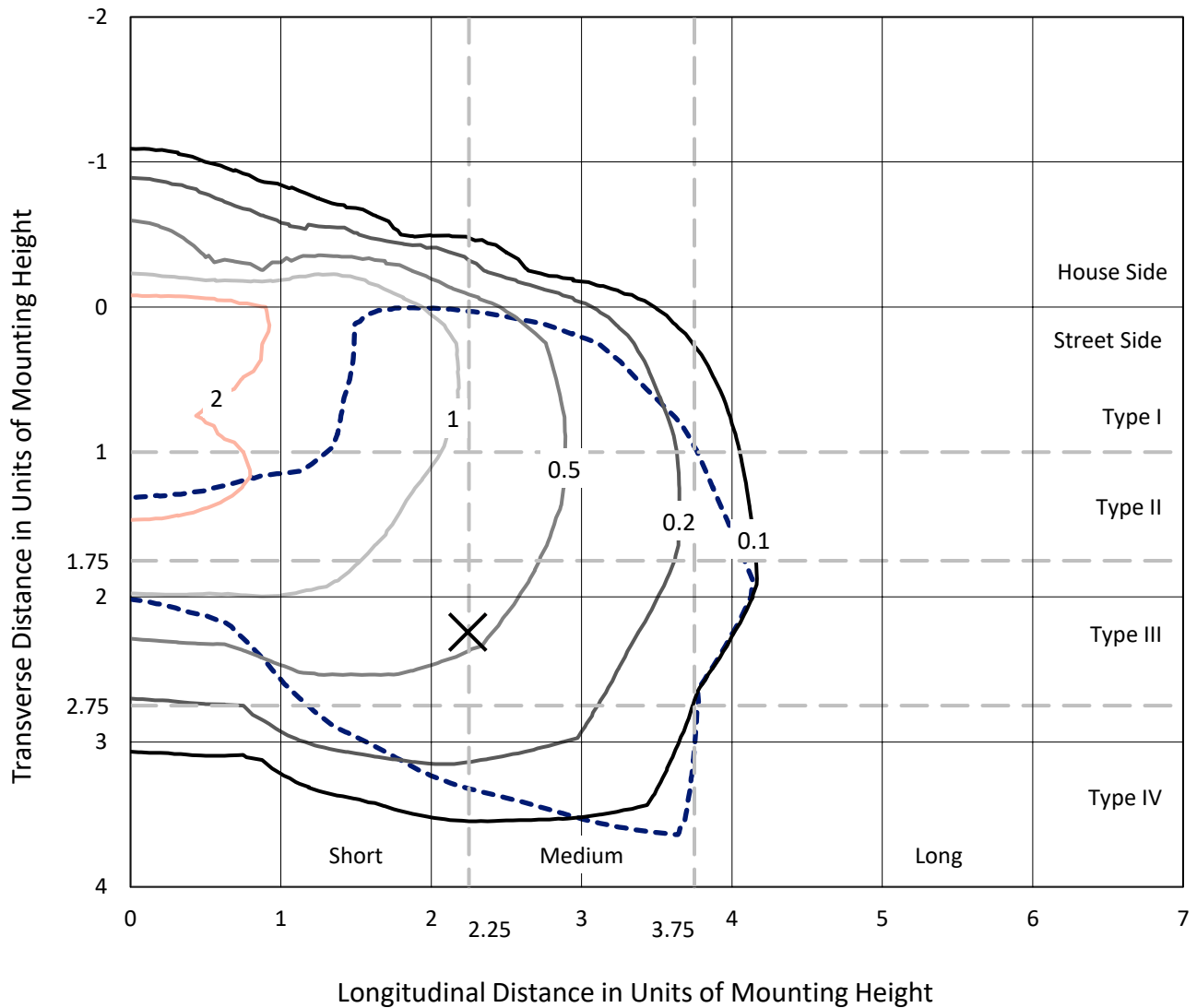
Lumens per Lamp: N/A  
Luminaire Lumens: 15242 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

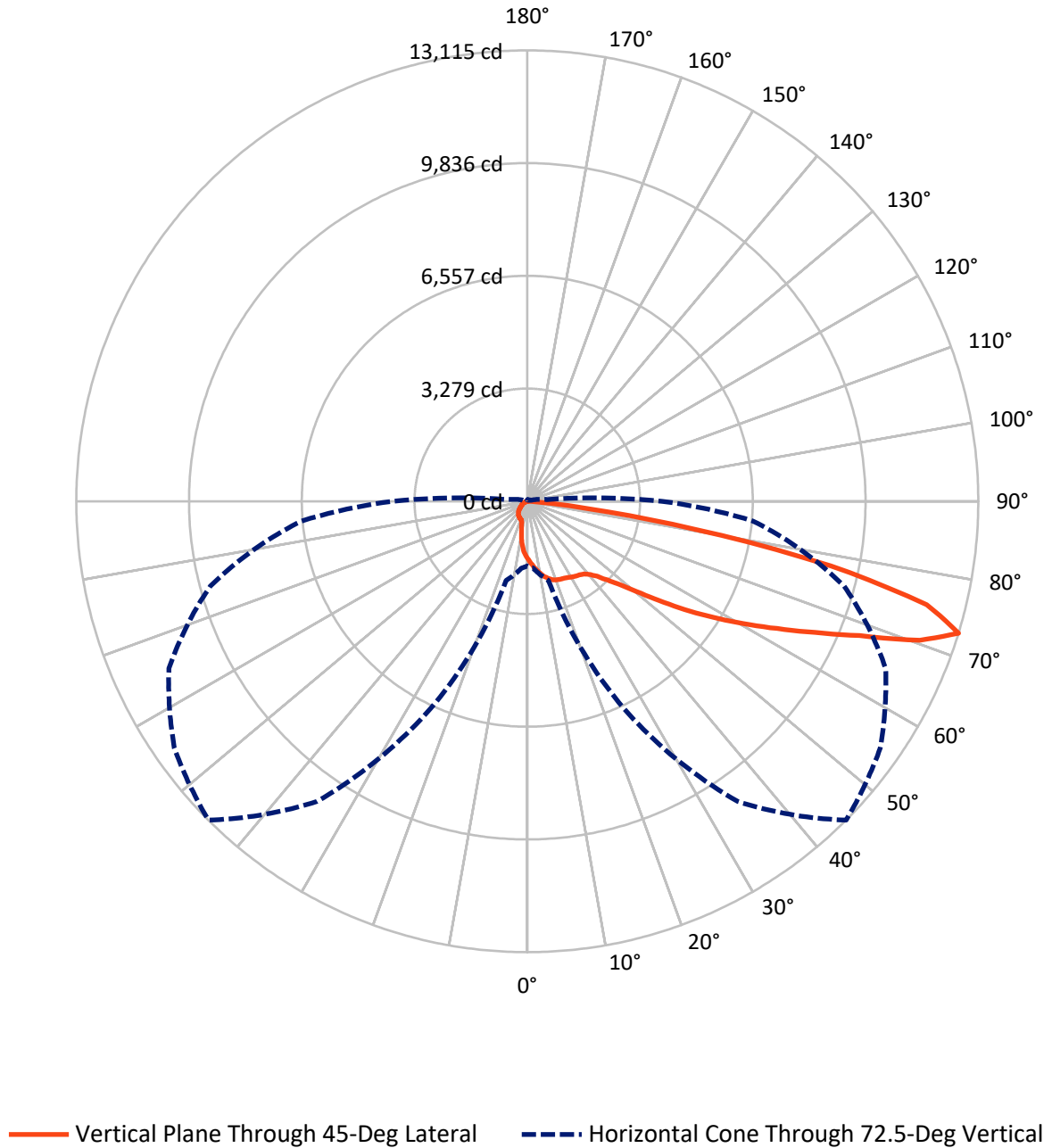
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1601.5   | 0.0    | 1601.5  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 13640.5  | 0.0    | 13640.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 15242.0  | 0.0    | 15242.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 157.3   | 1.0       |
| 10°-20°   | 459.8   | 3.0       |
| 20°-30°   | 755.1   | 5.0       |
| 30°-40°   | 1070.9  | 7.0       |
| 40°-50°   | 1770.0  | 11.6      |
| 50°-60°   | 3179.7  | 20.9      |
| 60°-70°   | 4415.1  | 29.0      |
| 70°-80°   | 3202.6  | 21.0      |
| 80°-90°   | 231.5   | 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°    | 15242.0 | 100.0     |
| 0°-180°   | 15242.0 | 100.0     |

**Coefficient of Utilization**



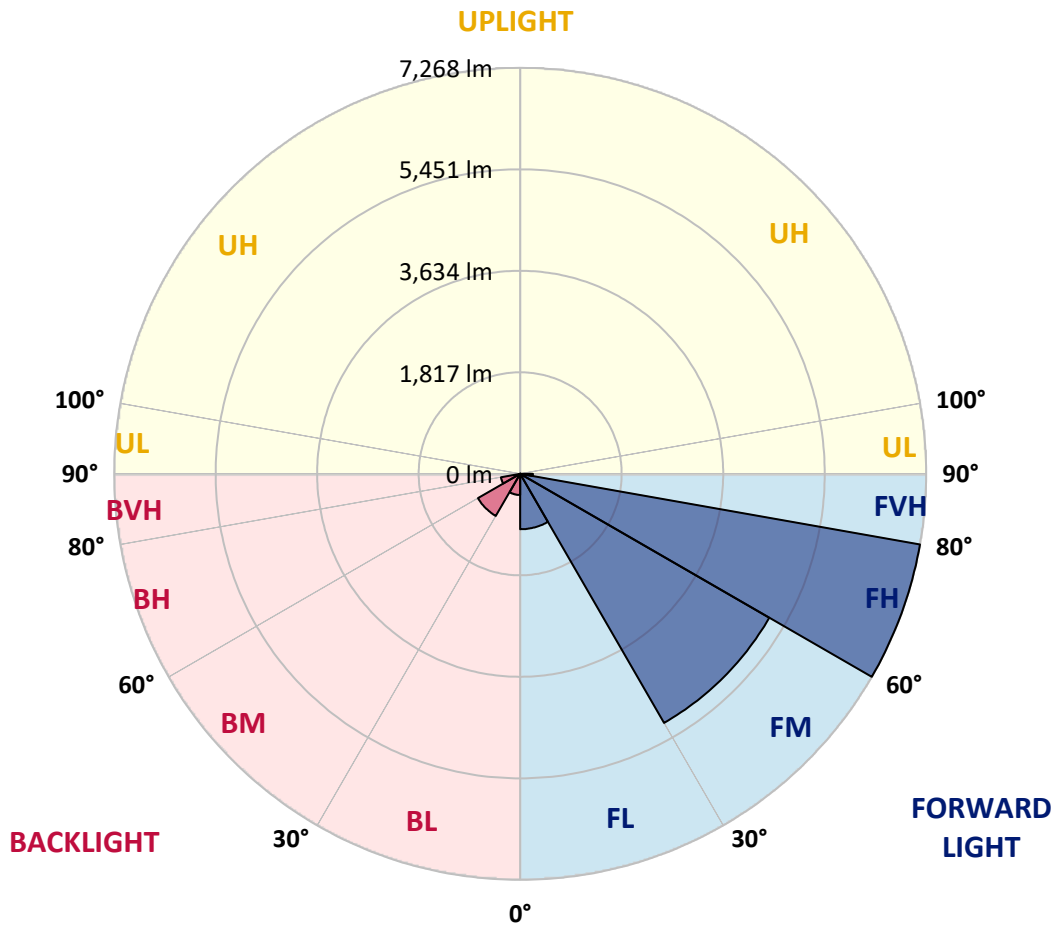
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 992.9  | 6.5       |                         |      |         |
| FM (30°-60°)   | 5149.6 | 33.8      |                         |      |         |
| FH (60°-80°)   | 7268.5 | 47.7      |                         |      | G3/7500 |
| FVH (80°-90°)  | 229.6  | 1.5       |                         |      | G3/500  |
| BL (0°-30°)    | 379.3  | 2.5       | B1/500                  |      |         |
| BM (30°-60°)   | 871.0  | 5.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 349.2  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.9    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8  | 1669.8  | 1669.8  | 1669.8  | 1669.8  | 1669.8  |
| 2.5°  | 1823.8 | 1826.9 | 1824.8 | 1812.3 | 1791.5  | 1780.1  | 1773.8  | 1753.0  | 1739.5  | 1715.6  |
| 5°    | 1991.3 | 2003.8 | 1996.5 | 1971.5 | 1932.0  | 1903.9  | 1895.6  | 1852.9  | 1814.4  | 1769.7  |
| 7.5°  | 2169.2 | 2175.4 | 2161.9 | 2129.6 | 2076.6  | 2028.7  | 2021.4  | 1962.1  | 1900.8  | 1832.1  |
| 10°   | 2323.1 | 2330.4 | 2309.6 | 2262.8 | 2202.5  | 2143.2  | 2132.8  | 2067.2  | 1994.4  | 1910.1  |
| 12.5° | 2452.2 | 2459.4 | 2432.4 | 2376.2 | 2309.6  | 2248.2  | 2237.8  | 2169.2  | 2089.1  | 1995.4  |
| 15°   | 2549.9 | 2563.5 | 2527.1 | 2466.7 | 2394.9  | 2333.5  | 2328.3  | 2260.7  | 2182.7  | 2078.7  |
| 17.5° | 2607.2 | 2620.7 | 2586.4 | 2513.5 | 2452.2  | 2400.1  | 2393.9  | 2337.7  | 2264.9  | 2165.0  |
| 20°   | 2616.5 | 2629.0 | 2592.6 | 2529.1 | 2478.2  | 2436.5  | 2433.4  | 2392.9  | 2339.8  | 2244.1  |
| 22.5° | 2588.4 | 2604.0 | 2570.8 | 2519.8 | 2484.4  | 2462.6  | 2458.4  | 2435.5  | 2405.3  | 2324.2  |
| 25°   | 2559.3 | 2571.8 | 2546.8 | 2502.1 | 2483.4  | 2481.3  | 2484.4  | 2480.2  | 2474.0  | 2405.3  |
| 27.5° | 2557.2 | 2570.8 | 2542.7 | 2500.0 | 2489.6  | 2511.5  | 2514.6  | 2534.3  | 2539.5  | 2479.2  |
| 30°   | 2574.9 | 2584.3 | 2557.2 | 2512.5 | 2507.3  | 2557.2  | 2558.3  | 2593.6  | 2602.0  | 2541.6  |
| 32.5° | 2613.4 | 2623.8 | 2596.8 | 2531.2 | 2523.9  | 2593.6  | 2596.8  | 2643.6  | 2657.1  | 2608.2  |
| 35°   | 2703.9 | 2716.4 | 2685.2 | 2583.2 | 2557.2  | 2628.0  | 2637.3  | 2692.5  | 2719.5  | 2679.0  |
| 37.5° | 2929.7 | 2893.3 | 2850.6 | 2688.3 | 2633.2  | 2682.1  | 2697.7  | 2762.2  | 2810.0  | 2763.2  |
| 40°   | 3490.4 | 3376.0 | 3242.8 | 2867.3 | 2766.3  | 2797.6  | 2810.0  | 2874.5  | 2940.1  | 2894.3  |
| 42.5° | 4332.1 | 4196.9 | 3982.5 | 3279.2 | 2967.1  | 2982.7  | 2992.1  | 3048.3  | 3140.9  | 3104.5  |
| 45°   | 5082.2 | 5033.3 | 4814.8 | 3982.5 | 3342.7  | 3265.7  | 3277.2  | 3306.3  | 3442.6  | 3429.1  |
| 47.5° | 5658.6 | 5630.5 | 5461.9 | 4789.9 | 3977.3  | 3612.2  | 3644.4  | 3657.9  | 3854.6  | 3902.4  |
| 50°   | 6101.8 | 6091.4 | 5940.5 | 5507.7 | 4806.5  | 4123.0  | 4134.4  | 4105.3  | 4399.7  | 4518.3  |
| 52.5° | 6520.0 | 6555.4 | 6444.1 | 6174.6 | 5691.9  | 4791.9  | 4789.9  | 4652.5  | 5050.0  | 5228.9  |
| 55°   | 6897.7 | 6910.1 | 6921.6 | 6855.0 | 6582.4  | 5553.5  | 5533.7  | 5309.0  | 5804.2  | 5989.4  |
| 57.5° | 7252.4 | 7257.6 | 7359.6 | 7495.9 | 7509.4  | 6371.2  | 6334.8  | 6065.4  | 6628.2  | 6760.3  |
| 60°   | 7490.7 | 7514.6 | 7729.9 | 8108.6 | 8274.1  | 7215.0  | 7195.2  | 6920.5  | 7466.7  | 7528.1  |
| 62.5° | 7147.3 | 7293.0 | 7836.1 | 8587.2 | 8996.1  | 8150.3  | 8140.9  | 7882.9  | 8349.0  | 8299.0  |
| 65°   | 5785.5 | 6032.1 | 6987.1 | 8910.8 | 9704.6  | 9194.8  | 9208.3  | 8933.7  | 9255.1  | 9092.8  |
| 67.5° | 4047.0 | 4307.1 | 5437.0 | 8936.8 | 10496.3 | 10421.4 | 10499.4 | 10068.7 | 10217.5 | 9853.3  |
| 70°   | 2798.6 | 2932.8 | 3668.3 | 8377.1 | 11113.2 | 12110.9 | 12108.9 | 11462.8 | 11174.6 | 10199.8 |
| 72.5° | 1882.0 | 1951.7 | 2382.4 | 6645.9 | 10659.6 | 13114.9 | 13054.6 | 12528.1 | 11497.1 | 9539.2  |
| 75°   | 793.8  | 844.8  | 1102.8 | 3734.9 | 8433.2  | 11998.6 | 11835.2 | 11071.6 | 10215.4 | 7511.5  |
| 77.5° | 251.8  | 273.6  | 434.9  | 1336.9 | 4645.3  | 9019.0  | 8846.3  | 6914.3  | 6846.7  | 3768.2  |
| 80°   | 119.6  | 139.4  | 244.5  | 536.8  | 1827.9  | 4905.3  | 4881.4  | 3136.7  | 2945.3  | 1017.5  |
| 82.5° | 52.0   | 61.4   | 135.2  | 287.1  | 817.7   | 1749.9  | 1785.3  | 1067.4  | 883.3   | 386.0   |
| 85°   | 16.6   | 21.8   | 62.4   | 132.1  | 345.4   | 434.9   | 429.7   | 253.9   | 355.8   | 210.2   |
| 87.5° | 0.0    | 0.0    | 20.8   | 30.2   | 35.4    | 25.0    | 28.1    | 21.8    | 98.8    | 58.3    |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1669.8 | 0°    | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8 | 1669.8 |
| 1690.6 | 2.5°  | 1678.1 | 1661.5 | 1632.3 | 1605.3 | 1581.4 | 1557.4 | 1542.9 | 1522.1 | 1520.0 | 1520.0 |
| 1717.7 | 5°    | 1689.6 | 1662.5 | 1610.5 | 1555.4 | 1491.9 | 1431.5 | 1371.2 | 1312.9 | 1294.2 | 1280.7 |
| 1761.3 | 7.5°  | 1722.9 | 1680.2 | 1598.0 | 1492.9 | 1372.2 | 1240.1 | 1147.5 | 1047.7 | 1009.2 | 988.4  |
| 1819.6 | 10°   | 1770.7 | 1712.4 | 1587.6 | 1403.5 | 1207.9 | 1027.9 | 895.8  | 787.6  | 745.9  | 728.3  |
| 1883.1 | 12.5° | 1823.8 | 1752.0 | 1568.9 | 1292.1 | 1027.9 | 812.5  | 683.5  | 633.6  | 627.3  | 627.3  |
| 1959.0 | 15°   | 1887.2 | 1799.8 | 1536.6 | 1161.1 | 839.6  | 642.9  | 597.2  | 599.3  | 605.5  | 609.7  |
| 2032.9 | 17.5° | 1952.8 | 1850.8 | 1485.6 | 1014.4 | 673.1  | 578.4  | 579.5  | 582.6  | 587.8  | 592.0  |
| 2113.0 | 20°   | 2023.5 | 1901.8 | 1418.0 | 858.3  | 577.4  | 559.7  | 562.8  | 566.0  | 570.1  | 572.2  |
| 2187.9 | 22.5° | 2099.5 | 1949.7 | 1337.9 | 705.4  | 545.2  | 544.1  | 545.2  | 548.3  | 553.5  | 553.5  |
| 2275.3 | 25°   | 2180.6 | 2002.7 | 1246.4 | 594.1  | 528.5  | 528.5  | 530.6  | 532.7  | 536.8  | 536.8  |
| 2359.6 | 27.5° | 2263.8 | 2051.6 | 1149.6 | 535.8  | 513.9  | 512.9  | 512.9  | 516.0  | 518.1  | 519.1  |
| 2442.8 | 30°   | 2355.4 | 2108.8 | 1052.9 | 523.3  | 502.5  | 497.3  | 494.2  | 496.3  | 498.3  | 499.4  |
| 2530.2 | 32.5° | 2449.0 | 2164.0 | 966.5  | 528.5  | 491.1  | 481.7  | 471.3  | 469.2  | 469.2  | 473.4  |
| 2620.7 | 35°   | 2553.1 | 2224.3 | 899.9  | 546.2  | 484.8  | 458.8  | 442.2  | 432.8  | 433.8  | 440.1  |
| 2728.9 | 37.5° | 2677.9 | 2297.1 | 851.0  | 561.8  | 480.7  | 432.8  | 405.7  | 394.3  | 387.0  | 394.3  |
| 2877.7 | 40°   | 2841.2 | 2404.3 | 815.6  | 574.3  | 475.4  | 402.6  | 366.2  | 347.5  | 334.0  | 338.1  |
| 3108.6 | 42.5° | 3081.6 | 2572.8 | 802.1  | 575.3  | 464.0  | 367.3  | 325.6  | 300.7  | 280.9  | 281.9  |
| 3456.1 | 45°   | 3418.7 | 2839.2 | 871.8  | 561.8  | 439.0  | 328.8  | 283.0  | 249.7  | 237.2  | 234.1  |
| 3975.3 | 47.5° | 3880.6 | 3227.2 | 1033.1 | 533.7  | 402.6  | 291.3  | 241.4  | 213.3  | 203.9  | 198.7  |
| 4656.7 | 50°   | 4499.6 | 3725.6 | 1212.0 | 502.5  | 366.2  | 255.9  | 207.0  | 189.3  | 183.1  | 177.9  |
| 5465.1 | 52.5° | 5217.5 | 4231.2 | 1358.7 | 471.3  | 329.8  | 224.7  | 185.2  | 174.8  | 169.6  | 165.4  |
| 6245.3 | 55°   | 5876.0 | 4579.7 | 1350.4 | 438.0  | 294.4  | 199.8  | 169.6  | 163.3  | 157.1  | 152.9  |
| 6917.4 | 57.5° | 6285.9 | 4628.6 | 1113.2 | 401.6  | 253.9  | 180.0  | 155.0  | 150.9  | 143.6  | 138.4  |
| 7499.0 | 60°   | 6474.2 | 4349.8 | 780.3  | 353.7  | 213.3  | 161.3  | 139.4  | 137.3  | 128.0  | 120.7  |
| 8049.3 | 62.5° | 6508.6 | 3831.7 | 520.2  | 294.4  | 177.9  | 143.6  | 123.8  | 120.7  | 108.2  | 95.7   |
| 8496.7 | 65°   | 6369.1 | 3090.9 | 360.0  | 229.9  | 151.9  | 124.8  | 106.1  | 99.9   | 86.4   | 73.9   |
| 8602.8 | 67.5° | 5928.0 | 2170.2 | 250.7  | 165.4  | 129.0  | 98.8   | 84.3   | 82.2   | 71.8   | 61.4   |
| 8061.8 | 70°   | 5119.7 | 1237.0 | 167.5  | 123.8  | 102.0  | 67.6   | 66.6   | 68.7   | 58.3   | 49.9   |
| 6586.6 | 72.5° | 3925.3 | 566.0  | 104.0  | 90.5   | 69.7   | 45.8   | 53.1   | 54.1   | 44.7   | 37.5   |
| 4109.5 | 75°   | 2310.7 | 242.4  | 65.5   | 58.3   | 35.4   | 30.2   | 38.5   | 39.5   | 30.2   | 23.9   |
| 1502.3 | 77.5° | 786.5  | 91.6   | 41.6   | 34.3   | 17.7   | 16.6   | 25.0   | 25.0   | 16.6   | 9.4    |
| 301.7  | 80°   | 178.9  | 34.3   | 20.8   | 13.5   | 8.3    | 7.3    | 8.3    | 7.3    | 4.2    | 1.0    |
| 92.6   | 82.5° | 51.0   | 13.5   | 8.3    | 5.2    | 3.1    | 3.1    | 1.0    | 0.0    | 0.0    | 0.0    |
| 32.3   | 85°   | 14.6   | 6.2    | 2.1    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 11.4   | 87.5° | 6.2    | 1.0    | 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    |

(END O

| <u>180°</u> |
|-------------|
| 1669.8      |
| 1525.2      |
| 1286.9      |
| 991.5       |
| 728.3       |
| 627.3       |
| 609.7       |
| 592.0       |
| 573.2       |
| 555.6       |
| 537.9       |
| 520.2       |
| 501.5       |
| 476.5       |
| 443.2       |
| 392.2       |
| 336.0       |
| 277.8       |
| 229.9       |
| 195.6       |
| 176.9       |
| 164.4       |
| 150.9       |
| 137.3       |
| 118.6       |
| 89.5        |
| 69.7        |
| 58.3        |
| 45.8        |
| 33.3        |
| 20.8        |
| 7.3         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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