

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: P951422

Luminaire Tested: **GALN-SB5C-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951422  
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-SB5C-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

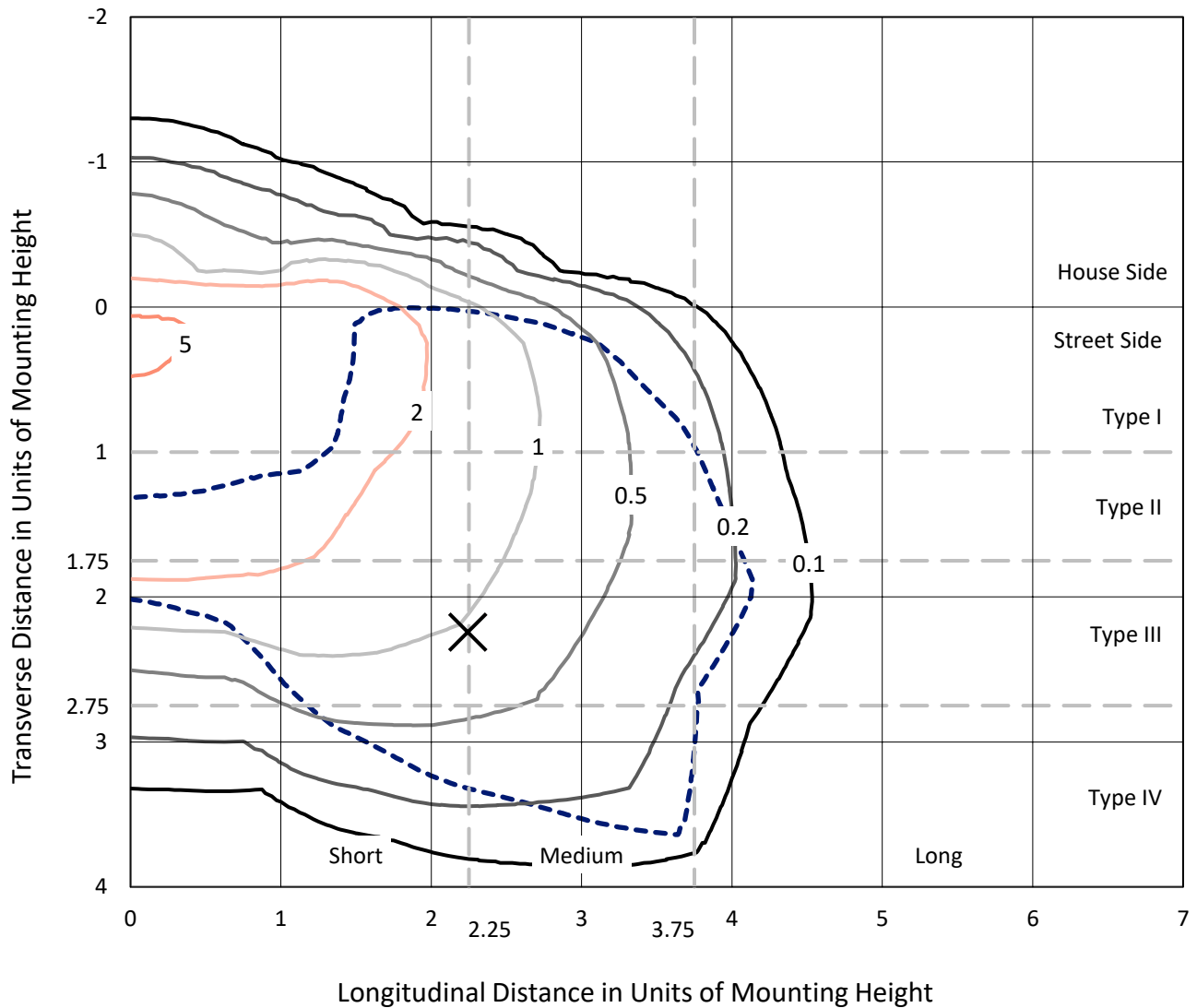
Lumens per Lamp: N/A  
Luminaire Lumens: 25340 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

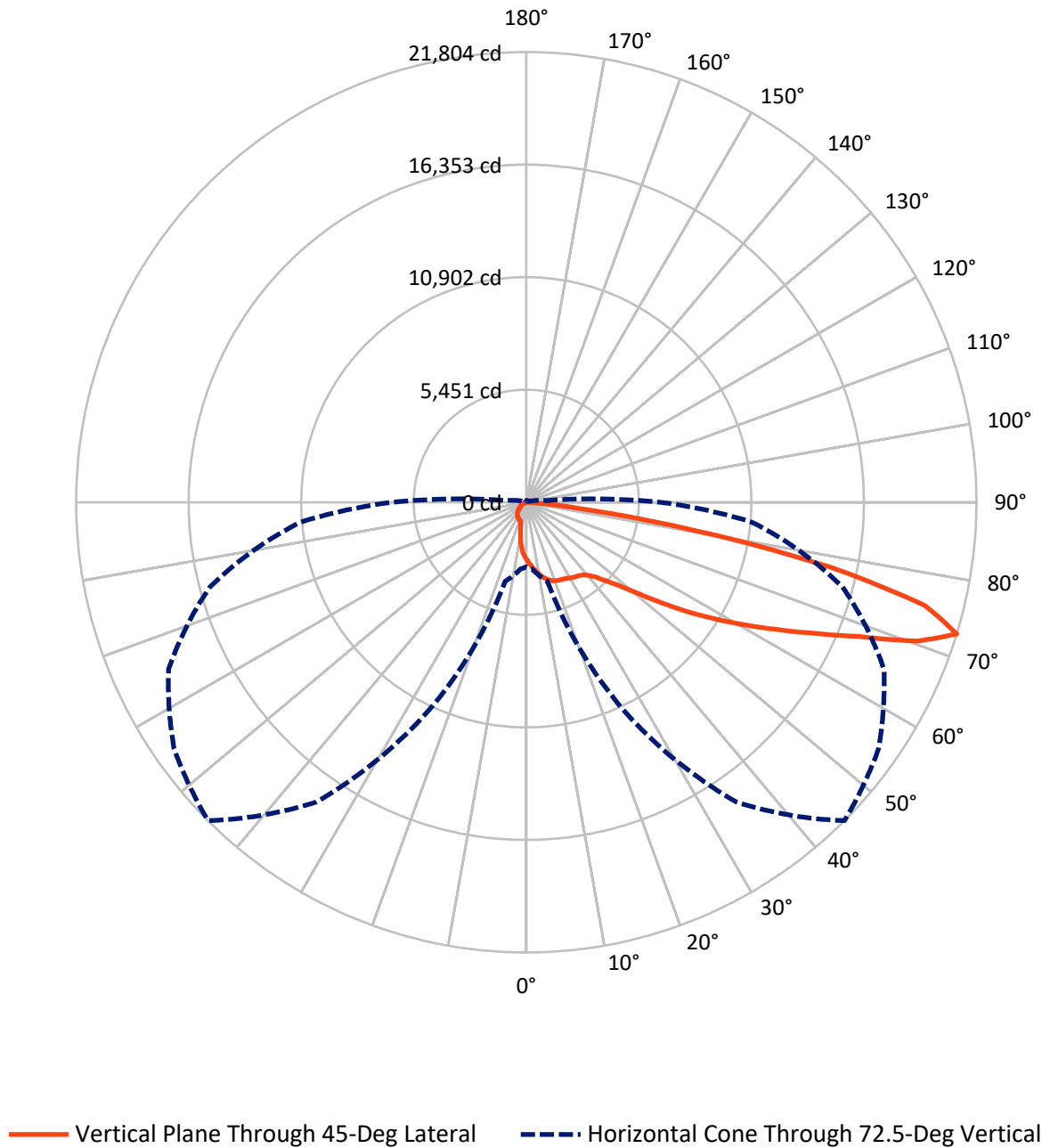
× Max cd  
 - - - 1/2 Max cd



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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2662.5   | 0.0    | 2662.5  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 22677.5  | 0.0    | 22677.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 25340.0  | 0.0    | 25340.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 261.6   | 1.0       |
| 10°-20°   | 764.4   | 3.0       |
| 20°-30°   | 1255.3  | 5.0       |
| 30°-40°   | 1780.3  | 7.0       |
| 40°-50°   | 2942.7  | 11.6      |
| 50°-60°   | 5286.2  | 20.9      |
| 60°-70°   | 7340.2  | 29.0      |
| 70°-80°   | 5324.4  | 21.0      |
| 80°-90°   | 384.9   | 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°    | 25340.0 | 100.0     |
| 0°-180°   | 25340.0 | 100.0     |

**Coefficient of Utilization**



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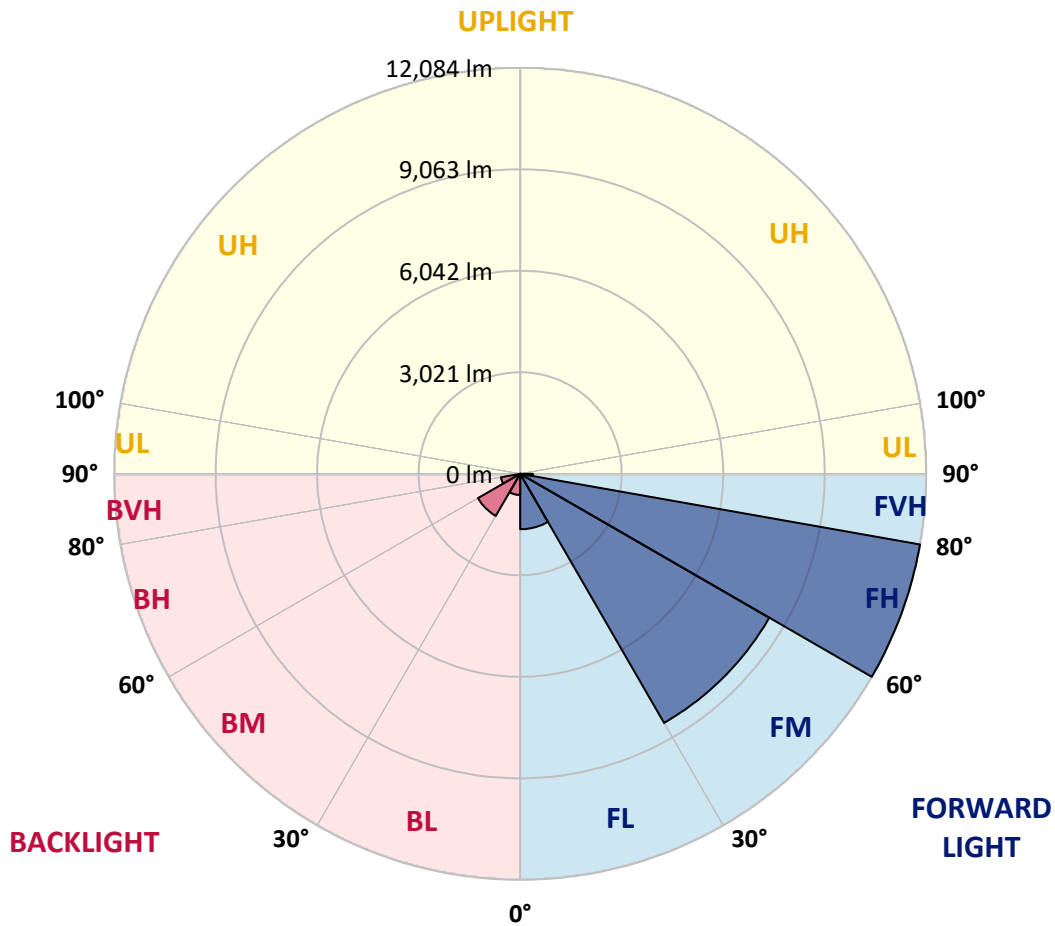
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1650.6  | 6.5       |                         |      |         |
| FM (30°-60°)   | 8561.2  | 33.8      |                         |      |         |
| FH (60°-80°)   | 12083.9 | 47.7      |                         |      | G5      |
| FVH (80°-90°)  | 381.7   | 1.5       |                         |      | G3/500  |
| BL (0°-30°)    | 630.6   | 2.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1448.0  | 5.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 580.6   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 3.2     | 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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2776.1  | 2776.1  | 2776.1  | 2776.1  | 2776.1  | 2776.1  | 2776.1  | 2776.1  | 2776.1  | 2776.1  |
| 2.5°  | 3032.0  | 3037.2  | 3033.8  | 3013.0  | 2978.4  | 2959.4  | 2949.0  | 2914.4  | 2891.9  | 2852.2  |
| 5°    | 3310.5  | 3331.3  | 3319.2  | 3277.6  | 3211.9  | 3165.2  | 3151.4  | 3080.5  | 3016.5  | 2942.1  |
| 7.5°  | 3606.3  | 3616.6  | 3594.2  | 3540.5  | 3452.3  | 3372.8  | 3360.7  | 3262.1  | 3160.0  | 3045.9  |
| 10°   | 3862.3  | 3874.4  | 3839.8  | 3761.9  | 3661.6  | 3563.0  | 3545.7  | 3436.8  | 3315.7  | 3175.6  |
| 12.5° | 4076.7  | 4088.8  | 4043.9  | 3950.5  | 3839.8  | 3737.7  | 3720.4  | 3606.3  | 3473.1  | 3317.4  |
| 15°   | 4239.3  | 4261.8  | 4201.3  | 4100.9  | 3981.6  | 3879.6  | 3870.9  | 3758.5  | 3628.8  | 3455.8  |
| 17.5° | 4334.4  | 4356.9  | 4299.9  | 4178.8  | 4076.7  | 3990.2  | 3979.9  | 3886.5  | 3765.4  | 3599.4  |
| 20°   | 4350.0  | 4370.8  | 4310.2  | 4204.7  | 4120.0  | 4050.8  | 4045.6  | 3978.1  | 3889.9  | 3730.8  |
| 22.5° | 4303.3  | 4329.3  | 4273.9  | 4189.2  | 4130.3  | 4094.0  | 4087.1  | 4049.1  | 3998.9  | 3864.0  |
| 25°   | 4254.9  | 4275.6  | 4234.1  | 4159.8  | 4128.6  | 4125.2  | 4130.3  | 4123.4  | 4113.1  | 3998.9  |
| 27.5° | 4251.4  | 4273.9  | 4227.2  | 4156.3  | 4139.0  | 4175.3  | 4180.5  | 4213.4  | 4222.0  | 4121.7  |
| 30°   | 4280.8  | 4296.4  | 4251.4  | 4177.0  | 4168.4  | 4251.4  | 4253.2  | 4312.0  | 4325.8  | 4225.5  |
| 32.5° | 4344.8  | 4362.1  | 4317.1  | 4208.2  | 4196.1  | 4312.0  | 4317.1  | 4395.0  | 4417.5  | 4336.2  |
| 35°   | 4495.3  | 4516.1  | 4464.2  | 4294.7  | 4251.4  | 4369.0  | 4384.6  | 4476.3  | 4521.2  | 4453.8  |
| 37.5° | 4870.6  | 4810.1  | 4739.2  | 4469.4  | 4377.7  | 4459.0  | 4484.9  | 4592.2  | 4671.7  | 4593.9  |
| 40°   | 5802.9  | 5612.6  | 5391.2  | 4766.9  | 4599.1  | 4651.0  | 4671.7  | 4779.0  | 4887.9  | 4811.8  |
| 42.5° | 7202.2  | 6977.3  | 6621.0  | 5451.8  | 4932.9  | 4958.8  | 4974.4  | 5067.8  | 5221.7  | 5161.2  |
| 45°   | 8449.2  | 8367.9  | 8004.7  | 6621.0  | 5557.3  | 5429.3  | 5448.3  | 5496.8  | 5723.3  | 5700.8  |
| 47.5° | 9407.4  | 9360.7  | 9080.5  | 7963.2  | 6612.4  | 6005.3  | 6058.9  | 6081.4  | 6408.3  | 6487.8  |
| 50°   | 10144.3 | 10127.0 | 9876.2  | 9156.6  | 7990.9  | 6854.5  | 6873.5  | 6825.1  | 7314.6  | 7511.8  |
| 52.5° | 10839.6 | 10898.4 | 10713.3 | 10265.3 | 9462.8  | 7966.7  | 7963.2  | 7734.9  | 8395.6  | 8693.1  |
| 55°   | 11467.4 | 11488.2 | 11507.2 | 11396.5 | 10943.3 | 9232.7  | 9199.9  | 8826.3  | 9649.6  | 9957.5  |
| 57.5° | 12057.2 | 12065.9 | 12235.4 | 12462.0 | 12484.4 | 10592.2 | 10531.7 | 10083.7 | 11019.5 | 11239.1 |
| 60°   | 12453.3 | 12493.1 | 12851.1 | 13480.7 | 13755.7 | 11995.0 | 11962.1 | 11505.5 | 12413.5 | 12515.6 |
| 62.5° | 11882.5 | 12124.7 | 13027.5 | 14276.3 | 14956.1 | 13549.9 | 13534.3 | 13105.4 | 13880.3 | 13797.2 |
| 65°   | 9618.5  | 10028.4 | 11616.2 | 14814.3 | 16134.0 | 15286.4 | 15308.9 | 14852.3 | 15386.8 | 15116.9 |
| 67.5° | 6728.2  | 7160.7  | 9039.0  | 14857.5 | 17450.2 | 17325.7 | 17455.4 | 16739.3 | 16986.7 | 16381.3 |
| 70°   | 4652.7  | 4875.8  | 6098.7  | 13927.0 | 18475.9 | 20134.6 | 20131.1 | 19057.0 | 18577.9 | 16957.3 |
| 72.5° | 3128.9  | 3244.8  | 3960.8  | 11048.9 | 17721.8 | 21803.7 | 21703.4 | 20828.2 | 19114.1 | 15858.9 |
| 75°   | 1319.7  | 1404.5  | 1833.4  | 6209.4  | 14020.4 | 19947.8 | 19676.2 | 18406.7 | 16983.2 | 12487.9 |
| 77.5° | 418.6   | 454.9   | 723.0   | 2222.6  | 7722.8  | 14994.1 | 14707.0 | 11495.1 | 11382.7 | 6264.7  |
| 80°   | 198.9   | 231.8   | 406.5   | 892.5   | 3039.0  | 8155.2  | 8115.4  | 5214.8  | 4896.6  | 1691.6  |
| 82.5° | 86.5    | 102.0   | 224.9   | 477.4   | 1359.5  | 2909.2  | 2968.0  | 1774.6  | 1468.5  | 641.7   |
| 85°   | 27.7    | 36.3    | 103.8   | 219.7   | 574.2   | 723.0   | 714.3   | 422.0   | 591.5   | 349.4   |
| 87.5° | 0.0     | 0.0     | 34.6    | 50.2    | 58.8    | 41.5    | 46.7    | 36.3    | 164.3   | 96.9    |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2776.1  | 0°    | 2776.1  | 2776.1 | 2776.1 | 2776.1 | 2776.1 | 2776.1 | 2776.1 | 2776.1 | 2776.1 | 2776.1 |
| 2810.6  | 2.5°  | 2789.9  | 2762.2 | 2713.8 | 2668.8 | 2629.0 | 2589.3 | 2565.0 | 2530.4 | 2527.0 | 2527.0 |
| 2855.6  | 5°    | 2808.9  | 2763.9 | 2677.5 | 2585.8 | 2480.3 | 2380.0 | 2279.6 | 2182.8 | 2151.7 | 2129.2 |
| 2928.3  | 7.5°  | 2864.3  | 2793.3 | 2656.7 | 2482.0 | 2281.4 | 2061.7 | 1907.8 | 1741.7 | 1677.7 | 1643.1 |
| 3025.1  | 10°   | 2943.8  | 2847.0 | 2639.4 | 2333.3 | 2008.1 | 1708.9 | 1489.2 | 1309.3 | 1240.1 | 1210.7 |
| 3130.6  | 12.5° | 3032.0  | 2912.7 | 2608.3 | 2148.2 | 1708.9 | 1350.8 | 1136.4 | 1053.3 | 1043.0 | 1043.0 |
| 3256.9  | 15°   | 3137.5  | 2992.3 | 2554.7 | 1930.3 | 1395.8 | 1068.9 | 992.8  | 996.3  | 1006.6 | 1013.6 |
| 3379.7  | 17.5° | 3246.5  | 3077.0 | 2469.9 | 1686.4 | 1119.1 | 961.7  | 963.4  | 968.6  | 977.2  | 984.2  |
| 3512.9  | 20°   | 3364.1  | 3161.8 | 2357.5 | 1426.9 | 959.9  | 930.5  | 935.7  | 940.9  | 947.8  | 951.3  |
| 3637.4  | 22.5° | 3490.4  | 3241.3 | 2224.3 | 1172.7 | 906.3  | 904.6  | 906.3  | 911.5  | 920.2  | 920.2  |
| 3782.7  | 25°   | 3625.3  | 3329.5 | 2072.1 | 987.6  | 878.7  | 878.7  | 882.1  | 885.6  | 892.5  | 892.5  |
| 3922.8  | 27.5° | 3763.7  | 3410.8 | 1911.2 | 890.8  | 854.4  | 852.7  | 852.7  | 857.9  | 861.4  | 863.1  |
| 4061.2  | 30°   | 3915.9  | 3506.0 | 1750.4 | 870.0  | 835.4  | 826.8  | 821.6  | 825.0  | 828.5  | 830.2  |
| 4206.5  | 32.5° | 4071.5  | 3597.6 | 1606.8 | 878.7  | 816.4  | 800.8  | 783.5  | 780.1  | 780.1  | 787.0  |
| 4356.9  | 35°   | 4244.5  | 3697.9 | 1496.1 | 908.1  | 806.0  | 762.8  | 735.1  | 719.5  | 721.3  | 731.6  |
| 4536.8  | 37.5° | 4452.1  | 3819.0 | 1414.8 | 934.0  | 799.1  | 719.5  | 674.6  | 655.5  | 643.4  | 655.5  |
| 4784.1  | 40°   | 4723.6  | 3997.2 | 1356.0 | 954.8  | 790.4  | 669.4  | 608.8  | 577.7  | 555.2  | 562.1  |
| 5168.1  | 42.5° | 5123.2  | 4277.4 | 1333.5 | 956.5  | 771.4  | 610.6  | 541.4  | 499.9  | 467.0  | 468.7  |
| 5745.8  | 45°   | 5683.6  | 4720.2 | 1449.4 | 934.0  | 729.9  | 546.6  | 470.5  | 415.1  | 394.4  | 389.2  |
| 6608.9  | 47.5° | 6451.5  | 5365.3 | 1717.5 | 887.3  | 669.4  | 484.3  | 401.3  | 354.6  | 339.0  | 330.4  |
| 7741.8  | 50°   | 7480.6  | 6193.8 | 2015.0 | 835.4  | 608.8  | 425.5  | 344.2  | 314.8  | 304.4  | 295.8  |
| 9085.7  | 52.5° | 8674.1  | 7034.4 | 2258.9 | 783.5  | 548.3  | 373.6  | 307.9  | 290.6  | 281.9  | 275.0  |
| 10382.9 | 55°   | 9768.9  | 7613.8 | 2245.1 | 728.2  | 489.5  | 332.1  | 281.9  | 271.6  | 261.2  | 254.3  |
| 11500.3 | 57.5° | 10450.4 | 7695.1 | 1850.7 | 667.6  | 422.0  | 299.2  | 257.7  | 250.8  | 238.7  | 230.0  |
| 12467.1 | 60°   | 10763.5 | 7231.6 | 1297.2 | 588.1  | 354.6  | 268.1  | 231.8  | 228.3  | 212.7  | 200.6  |
| 13382.1 | 62.5° | 10820.5 | 6370.2 | 864.8  | 489.5  | 295.8  | 238.7  | 205.8  | 200.6  | 179.9  | 159.1  |
| 14125.9 | 65°   | 10588.8 | 5138.7 | 598.5  | 382.2  | 252.5  | 207.6  | 176.4  | 166.0  | 143.6  | 122.8  |
| 14302.3 | 67.5° | 9855.4  | 3608.0 | 416.8  | 275.0  | 214.5  | 164.3  | 140.1  | 136.6  | 119.3  | 102.0  |
| 13402.9 | 70°   | 8511.5  | 2056.5 | 278.5  | 205.8  | 169.5  | 112.4  | 110.7  | 114.2  | 96.9   | 83.0   |
| 10950.3 | 72.5° | 6525.9  | 940.9  | 173.0  | 150.5  | 115.9  | 76.1   | 88.2   | 89.9   | 74.4   | 62.3   |
| 6832.0  | 75°   | 3841.5  | 403.0  | 109.0  | 96.9   | 58.8   | 50.2   | 64.0   | 65.7   | 50.2   | 39.8   |
| 2497.6  | 77.5° | 1307.6  | 152.2  | 69.2   | 57.1   | 29.4   | 27.7   | 41.5   | 41.5   | 27.7   | 15.6   |
| 501.6   | 80°   | 297.5   | 57.1   | 34.6   | 22.5   | 13.8   | 12.1   | 13.8   | 12.1   | 6.9    | 1.7    |
| 153.9   | 82.5° | 84.8    | 22.5   | 13.8   | 8.6    | 5.2    | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    |
| 53.6    | 85°   | 24.2    | 10.4   | 3.5    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19.0    | 87.5° | 10.4    | 1.7    | 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> |
| 2776.1      |
| 2535.6      |
| 2139.5      |
| 1648.3      |
| 1210.7      |
| 1043.0      |
| 1013.6      |
| 984.2       |
| 953.0       |
| 923.6       |
| 894.2       |
| 864.8       |
| 833.7       |
| 792.2       |
| 736.8       |
| 652.1       |
| 558.7       |
| 461.8       |
| 382.2       |
| 325.2       |
| 294.0       |
| 273.3       |
| 250.8       |
| 228.3       |
| 197.2       |
| 148.7       |
| 115.9       |
| 96.9        |
| 76.1        |
| 55.3        |
| 34.6        |
| 12.1        |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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