

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: P646793

Luminaire Tested: **GALN-SA2C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6530.2 lumens  
Efficiency: N/A  
Efficacy: 60.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

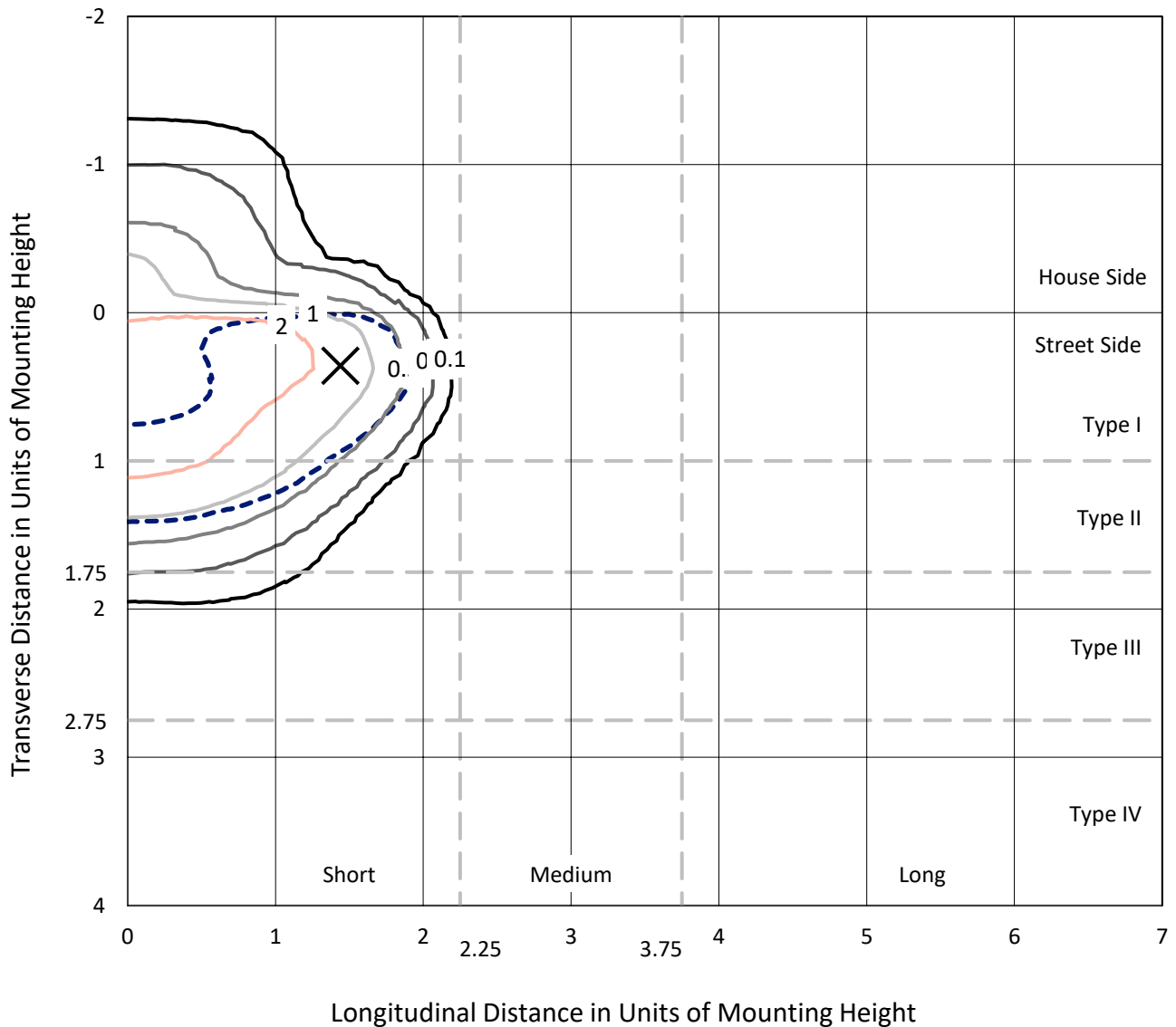
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

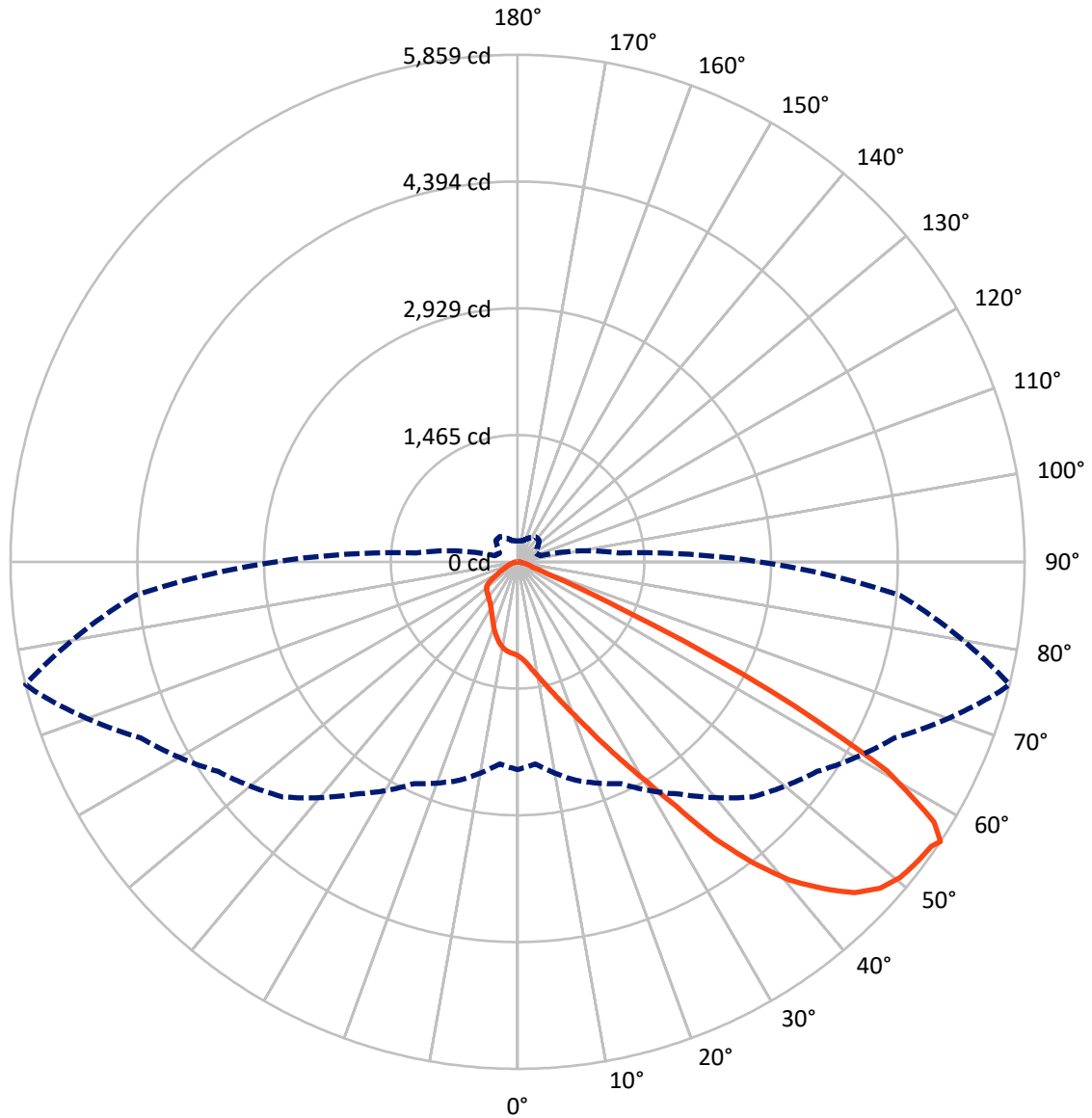
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1025.9   | 0.0    | 1025.9 |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 5504.4   | 0.0    | 5504.4 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 6530.2   | 0.0    | 6530.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.5  | 1.7       |
| 10°-20°   | 351.8  | 5.4       |
| 20°-30°   | 637.9  | 9.8       |
| 30°-40°   | 1100.0 | 16.8      |
| 40°-50°   | 1787.0 | 27.4      |
| 50°-60°   | 1883.6 | 28.8      |
| 60°-70°   | 575.5  | 8.8       |
| 70°-80°   | 73.8   | 1.1       |
| 80°-90°   | 11.2   | 0.2       |
| 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°    | 6530.2 | 100.0     |
| 0°-180°   | 6530.2 | 100.0     |

**Coefficient of Utilization**



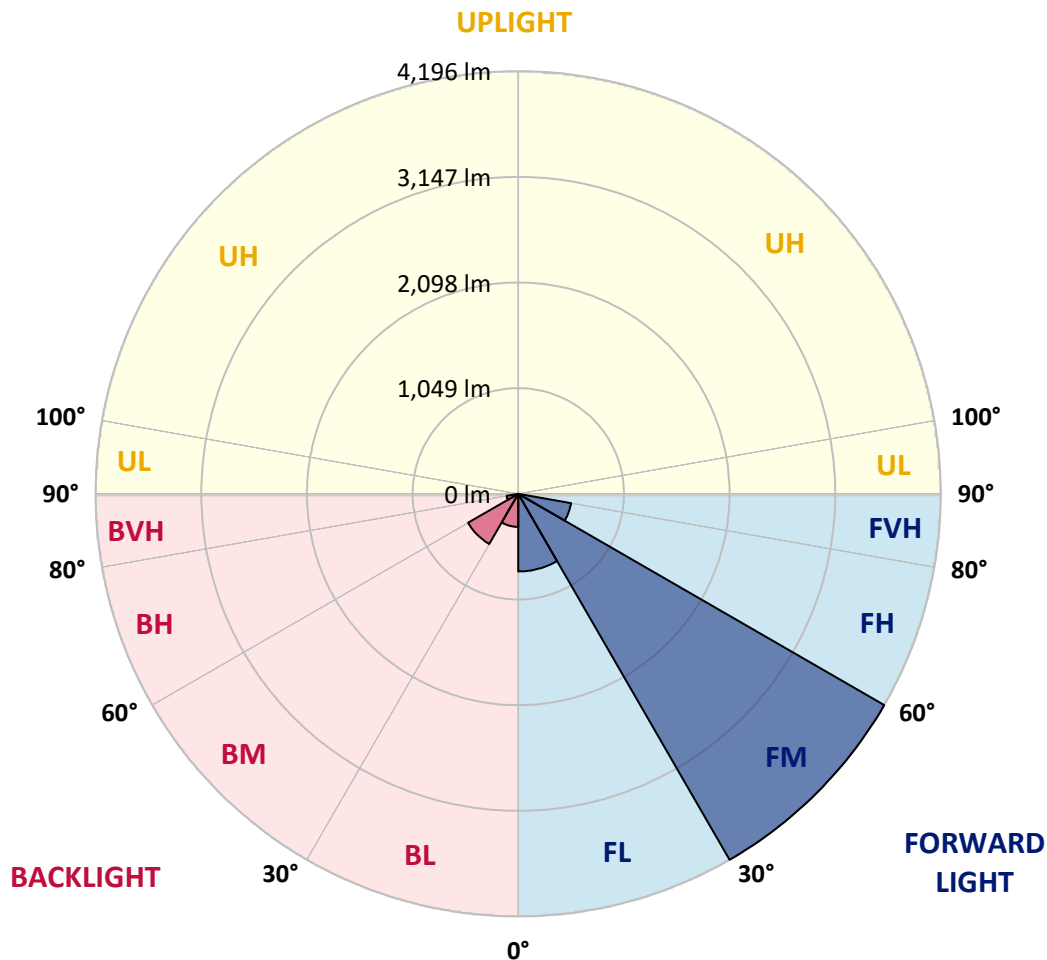
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 771.0  | 11.8      |                         |      |        |
| FM (30°-60°)   | 4195.7 | 64.2      |                         |      |        |
| FH (60°-80°)   | 532.3  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.5    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 328.2  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 574.9  | 8.8       | B1/1000                 |      |        |
| BH (60°-80°)   | 117.0  | 1.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 5.7    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 |
| 2.5°  | 1251.9 | 1223.0 | 1224.2 | 1221.8 | 1218.2 | 1205.0 | 1165.2 | 1159.2 | 1132.7 | 1125.5 | 1101.4 |
| 5°    | 1402.4 | 1377.1 | 1391.5 | 1369.9 | 1349.3 | 1337.4 | 1272.4 | 1242.2 | 1200.1 | 1184.4 | 1150.8 |
| 7.5°  | 1496.2 | 1484.2 | 1479.4 | 1480.6 | 1461.3 | 1431.2 | 1402.4 | 1336.1 | 1279.6 | 1267.5 | 1196.5 |
| 10°   | 1542.0 | 1534.8 | 1542.0 | 1538.4 | 1546.8 | 1550.4 | 1499.8 | 1460.1 | 1377.1 | 1356.6 | 1245.8 |
| 12.5° | 1552.8 | 1567.3 | 1573.3 | 1588.9 | 1609.4 | 1644.3 | 1640.7 | 1586.5 | 1475.8 | 1462.6 | 1321.7 |
| 15°   | 1579.3 | 1591.3 | 1585.3 | 1610.6 | 1649.1 | 1708.1 | 1739.4 | 1731.0 | 1611.8 | 1587.7 | 1409.6 |
| 17.5° | 1603.3 | 1581.7 | 1602.2 | 1652.7 | 1691.2 | 1781.5 | 1857.4 | 1892.3 | 1759.9 | 1732.2 | 1490.2 |
| 20°   | 1635.8 | 1629.8 | 1626.2 | 1651.5 | 1720.1 | 1840.5 | 1990.9 | 2054.7 | 1925.9 | 1897.1 | 1605.8 |
| 22.5° | 1734.6 | 1735.8 | 1733.3 | 1696.1 | 1745.4 | 1881.4 | 2107.8 | 2265.4 | 2124.6 | 2100.5 | 1737.0 |
| 25°   | 1864.6 | 1848.9 | 1836.9 | 1806.8 | 1800.7 | 1918.7 | 2225.7 | 2523.0 | 2362.9 | 2346.0 | 1879.0 |
| 27.5° | 2001.8 | 2001.8 | 1965.7 | 1938.0 | 1899.5 | 2011.4 | 2334.0 | 2773.4 | 2650.6 | 2627.7 | 2003.0 |
| 30°   | 2151.1 | 2159.5 | 2154.7 | 2095.7 | 2071.6 | 2112.5 | 2444.8 | 3093.6 | 2980.4 | 2951.5 | 2207.7 |
| 32.5° | 2371.3 | 2353.3 | 2373.7 | 2324.4 | 2253.4 | 2289.5 | 2619.3 | 3380.1 | 3408.9 | 3368.0 | 2476.1 |
| 35°   | 2662.7 | 2651.8 | 2638.6 | 2557.9 | 2473.7 | 2502.5 | 2866.1 | 3732.7 | 3947.0 | 3926.6 | 2746.9 |
| 37.5° | 2923.9 | 2917.8 | 2907.0 | 2851.6 | 2754.1 | 2789.0 | 3146.6 | 4099.9 | 4471.9 | 4404.5 | 3129.7 |
| 40°   | 3198.3 | 3230.8 | 3195.9 | 3146.6 | 3057.5 | 3134.5 | 3476.4 | 4317.8 | 4913.6 | 4831.7 | 3422.2 |
| 42.5° | 3570.2 | 3545.0 | 3560.6 | 3470.3 | 3422.2 | 3506.4 | 3807.4 | 4535.6 | 5256.7 | 5159.2 | 3732.7 |
| 45°   | 3966.3 | 3967.5 | 3925.3 | 3896.4 | 3771.2 | 3862.8 | 4010.8 | 4656.0 | 5529.9 | 5454.1 | 3967.5 |
| 47.5° | 4220.3 | 4219.0 | 4264.8 | 4310.6 | 4181.8 | 4091.5 | 4149.3 | 4770.3 | 5670.7 | 5635.9 | 4053.0 |
| 50°   | 4180.5 | 4192.6 | 4251.5 | 4422.5 | 4489.9 | 4368.4 | 4279.3 | 4736.7 | 5734.5 | 5730.9 | 4126.4 |
| 52.5° | 3636.5 | 3676.2 | 3774.9 | 4021.6 | 4361.1 | 4511.6 | 4415.3 | 4799.2 | 5765.9 | 5771.9 | 4236.0 |
| 55°   | 2768.6 | 2790.2 | 2978.0 | 3277.7 | 3653.3 | 4168.5 | 4361.1 | 4848.6 | 5789.9 | 5800.8 | 4368.4 |
| 56°   | 2401.5 | 2343.7 | 2614.5 | 2827.6 | 3276.5 | 3839.9 | 4223.9 | 4810.1 | 5775.5 | 5858.6 | 4434.5 |
| 57.5° | 1812.8 | 1774.3 | 1993.4 | 2259.4 | 2691.6 | 3286.2 | 3797.8 | 4628.3 | 5678.0 | 5676.8 | 4339.5 |
| 60°   | 1102.6 | 1064.1 | 1232.6 | 1389.1 | 1631.1 | 2023.4 | 2566.4 | 3685.8 | 4800.5 | 4901.6 | 3513.7 |
| 62.5° | 656.0  | 680.1  | 846.2  | 941.3  | 1019.5 | 1060.5 | 1327.7 | 2190.8 | 3203.1 | 3275.4 | 2180.0 |
| 65°   | 436.9  | 445.4  | 570.6  | 727.0  | 761.9  | 606.7  | 540.5  | 887.1  | 1389.1 | 1344.6 | 899.2  |
| 67.5° | 269.7  | 288.9  | 382.8  | 546.5  | 605.5  | 442.9  | 256.4  | 331.1  | 382.8  | 382.8  | 260.0  |
| 70°   | 163.7  | 173.4  | 255.2  | 371.9  | 415.3  | 285.2  | 186.6  | 186.6  | 184.2  | 180.6  | 155.3  |
| 72.5° | 78.2   | 84.3   | 130.0  | 191.4  | 195.0  | 150.5  | 144.5  | 157.7  | 154.1  | 152.8  | 128.8  |
| 75°   | 33.7   | 36.1   | 45.7   | 60.2   | 68.6   | 63.8   | 87.9   | 113.1  | 116.7  | 113.1  | 92.7   |
| 77.5° | 10.8   | 12.1   | 16.8   | 21.7   | 22.9   | 27.7   | 37.3   | 47.0   | 54.2   | 50.6   | 45.7   |
| 80°   | 1.2    | 2.4    | 4.8    | 10.8   | 16.8   | 21.7   | 27.7   | 31.3   | 34.9   | 34.9   | 32.5   |
| 82.5° | 1.2    | 1.2    | 4.8    | 9.6    | 15.7   | 20.4   | 26.5   | 30.1   | 34.9   | 36.1   | 33.7   |
| 85°   | 0.0    | 1.2    | 3.6    | 8.5    | 13.2   | 13.2   | 12.1   | 12.1   | 8.5    | 8.5    | 8.5    |
| 87.5° | 0.0    | 0.0    | 1.2    | 1.2    | 1.2    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 90°   | 0.0    | 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 | 1087.0 |
| 2.5°  | 1096.6 | 1094.2 | 1061.7 | 1041.2 | 1030.4 | 1008.7 | 995.5  | 985.9  | 978.6  | 970.2  | 971.4  |
| 5°    | 1111.1 | 1102.6 | 1048.4 | 1011.2 | 966.6  | 942.5  | 922.1  | 905.2  | 894.3  | 892.0  | 887.1  |
| 7.5°  | 1151.9 | 1107.4 | 1025.6 | 958.2  | 901.6  | 877.5  | 859.5  | 848.6  | 853.5  | 842.6  | 851.0  |
| 10°   | 1183.3 | 1117.0 | 997.9  | 900.4  | 843.8  | 825.8  | 816.1  | 824.6  | 836.6  | 831.8  | 825.8  |
| 12.5° | 1221.8 | 1126.7 | 953.4  | 845.0  | 792.1  | 778.9  | 795.7  | 811.3  | 835.4  | 845.0  | 833.0  |
| 15°   | 1265.1 | 1137.5 | 896.8  | 781.2  | 747.5  | 758.3  | 787.2  | 814.9  | 839.0  | 851.0  | 858.2  |
| 17.5° | 1318.1 | 1133.9 | 841.4  | 730.7  | 705.4  | 736.6  | 771.6  | 796.9  | 833.0  | 851.0  | 846.2  |
| 20°   | 1367.4 | 1121.9 | 780.0  | 680.1  | 681.3  | 710.2  | 739.1  | 780.0  | 799.3  | 823.3  | 814.9  |
| 22.5° | 1414.4 | 1100.2 | 716.2  | 645.2  | 645.2  | 689.7  | 704.2  | 730.7  | 747.5  | 759.6  | 758.3  |
| 25°   | 1480.6 | 1059.2 | 663.3  | 611.5  | 625.9  | 654.8  | 666.9  | 675.3  | 668.1  | 677.7  | 678.9  |
| 27.5° | 1527.6 | 1017.1 | 619.9  | 581.4  | 607.8  | 629.5  | 625.9  | 621.2  | 604.2  | 591.0  | 599.5  |
| 30°   | 1578.1 | 967.8  | 582.6  | 560.9  | 575.3  | 594.6  | 580.2  | 565.7  | 539.3  | 517.6  | 518.8  |
| 32.5° | 1650.3 | 944.9  | 550.1  | 536.8  | 556.1  | 558.5  | 542.9  | 521.2  | 494.7  | 474.3  | 473.1  |
| 35°   | 1785.2 | 930.5  | 522.4  | 521.2  | 524.8  | 526.0  | 510.4  | 483.9  | 473.1  | 456.2  | 462.2  |
| 37.5° | 1919.9 | 923.2  | 503.2  | 498.4  | 497.1  | 498.4  | 480.3  | 455.0  | 475.4  | 474.3  | 476.7  |
| 40°   | 2092.1 | 955.7  | 475.4  | 469.5  | 470.7  | 470.7  | 447.8  | 440.6  | 476.7  | 480.3  | 481.5  |
| 42.5° | 2266.6 | 996.7  | 457.4  | 438.2  | 442.9  | 442.9  | 431.0  | 422.5  | 447.8  | 423.7  | 420.1  |
| 45°   | 2418.3 | 1056.9 | 438.2  | 406.8  | 418.9  | 424.9  | 421.3  | 406.8  | 391.2  | 350.3  | 350.3  |
| 47.5° | 2467.6 | 1109.8 | 415.3  | 376.8  | 386.4  | 412.9  | 402.1  | 371.9  | 344.3  | 310.5  | 308.2  |
| 50°   | 2554.3 | 1167.6 | 397.2  | 341.9  | 362.3  | 394.8  | 384.0  | 353.9  | 322.6  | 298.6  | 299.7  |
| 52.5° | 2643.4 | 1233.9 | 363.5  | 300.9  | 326.2  | 380.4  | 380.4  | 346.6  | 298.6  | 281.6  | 279.3  |
| 55°   | 2777.0 | 1231.4 | 303.3  | 246.8  | 291.3  | 358.7  | 364.7  | 310.5  | 267.2  | 254.0  | 254.0  |
| 56°   | 2796.2 | 1176.1 | 273.3  | 231.1  | 275.6  | 352.7  | 353.9  | 300.9  | 255.2  | 240.8  | 240.8  |
| 57.5° | 2651.8 | 1061.7 | 239.5  | 211.9  | 256.4  | 341.9  | 343.0  | 292.5  | 245.5  | 225.1  | 222.7  |
| 60°   | 2040.3 | 718.6  | 199.8  | 189.0  | 232.3  | 308.2  | 314.1  | 266.0  | 215.5  | 199.8  | 198.6  |
| 62.5° | 1151.9 | 398.5  | 175.7  | 170.9  | 199.8  | 262.4  | 280.5  | 232.3  | 183.0  | 174.5  | 177.0  |
| 65°   | 526.0  | 219.1  | 148.1  | 138.4  | 161.3  | 202.2  | 226.3  | 191.4  | 150.5  | 140.9  | 140.9  |
| 67.5° | 192.6  | 149.2  | 126.4  | 109.5  | 113.1  | 131.2  | 146.9  | 123.9  | 99.9   | 85.5   | 89.1   |
| 70°   | 137.3  | 125.2  | 110.7  | 95.1   | 87.9   | 85.5   | 84.3   | 69.8   | 49.3   | 38.5   | 41.0   |
| 72.5° | 110.7  | 103.5  | 92.7   | 80.6   | 68.6   | 57.8   | 49.3   | 36.1   | 22.9   | 15.7   | 14.4   |
| 75°   | 79.5   | 75.9   | 67.4   | 57.8   | 48.2   | 41.0   | 33.7   | 22.9   | 12.1   | 6.0    | 6.0    |
| 77.5° | 41.0   | 41.0   | 39.7   | 36.1   | 30.1   | 24.0   | 19.3   | 13.2   | 7.2    | 2.4    | 2.4    |
| 80°   | 31.3   | 33.7   | 34.9   | 31.3   | 27.7   | 21.7   | 15.7   | 9.6    | 4.8    | 1.2    | 1.2    |
| 82.5° | 30.1   | 34.9   | 37.3   | 32.5   | 27.7   | 20.4   | 15.7   | 9.6    | 4.8    | 1.2    | 1.2    |
| 85°   | 7.2    | 7.2    | 10.8   | 12.1   | 15.7   | 16.8   | 13.2   | 8.5    | 3.6    | 1.2    | 1.2    |
| 87.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 1.2    | 1.2    | 1.2    | 1.2    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)