

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: P269004

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-SL4-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4156.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

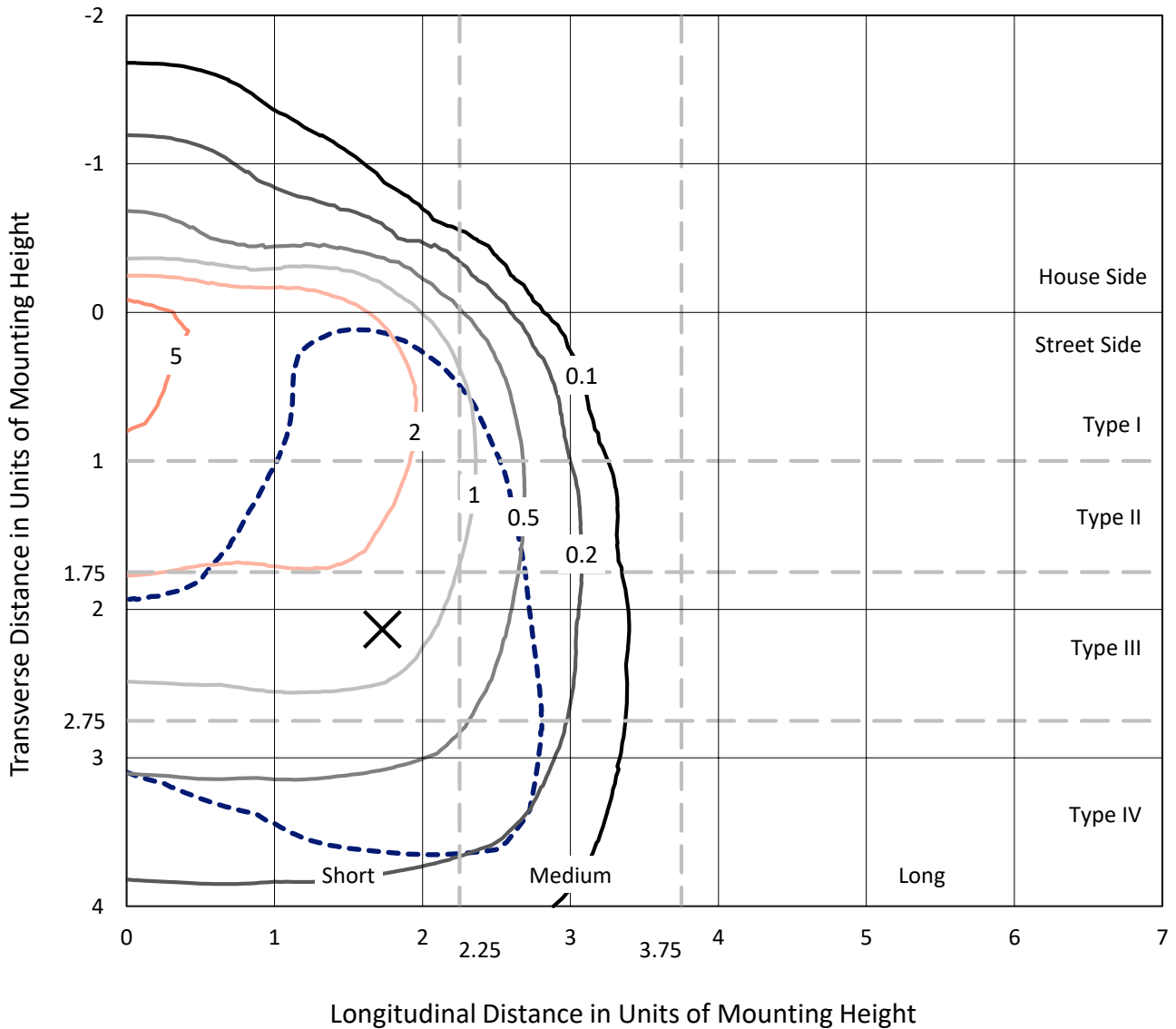
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

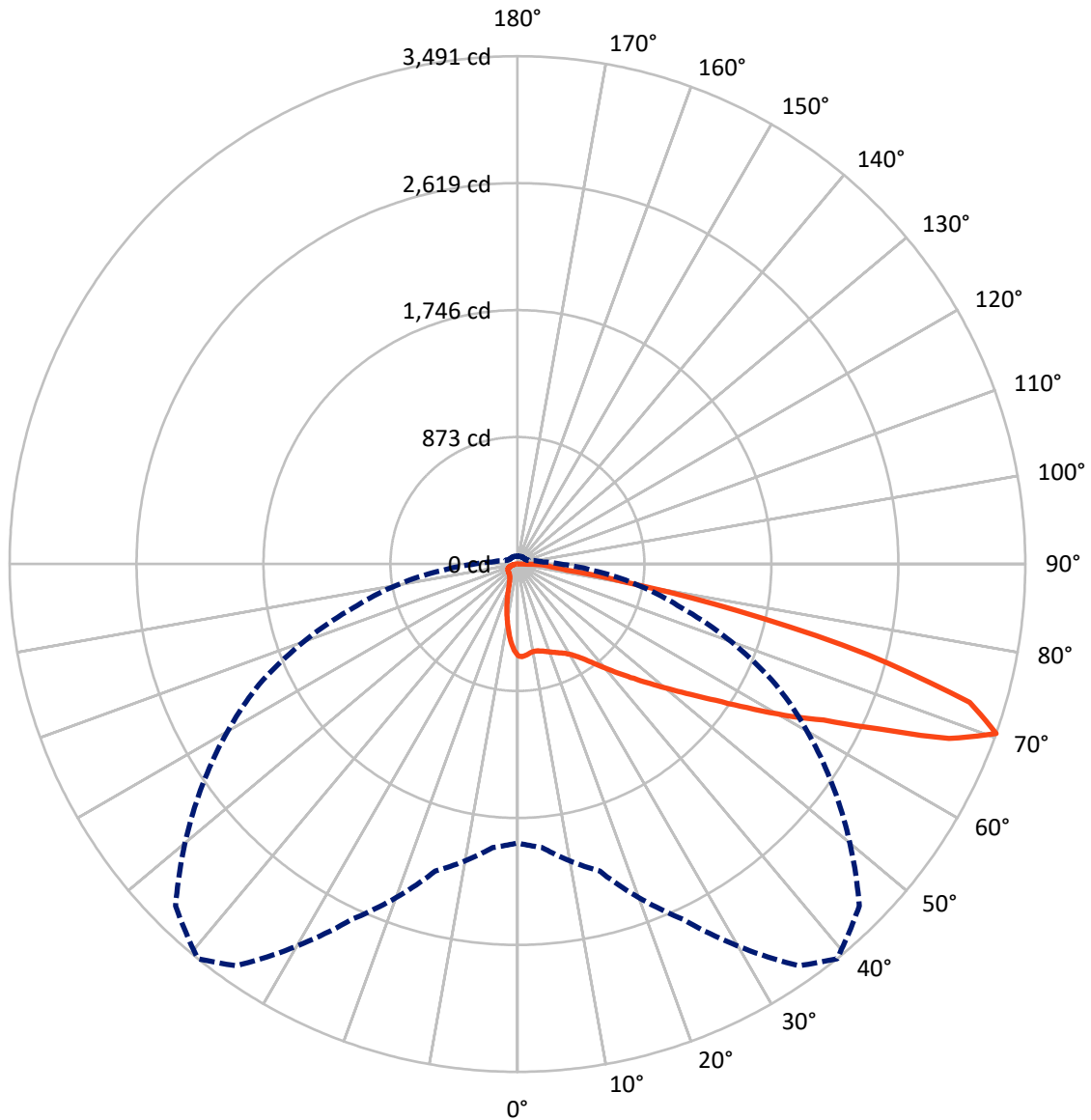
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 472.7    | 0.0    | 472.7  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 3683.8   | 0.0    | 3683.8 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 4156.5   | 0.0    | 4156.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.2   | 1.3       |
| 10°-20°   | 135.4  | 3.3       |
| 20°-30°   | 210.8  | 5.1       |
| 30°-40°   | 328.3  | 7.9       |
| 40°-50°   | 551.2  | 13.3      |
| 50°-60°   | 875.7  | 21.1      |
| 60°-70°   | 1168.0 | 28.1      |
| 70°-80°   | 705.3  | 17.0      |
| 80°-90°   | 127.7  | 3.1       |
| 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°    | 4156.5 | 100.0     |
| 0°-180°   | 4156.5 | 100.0     |



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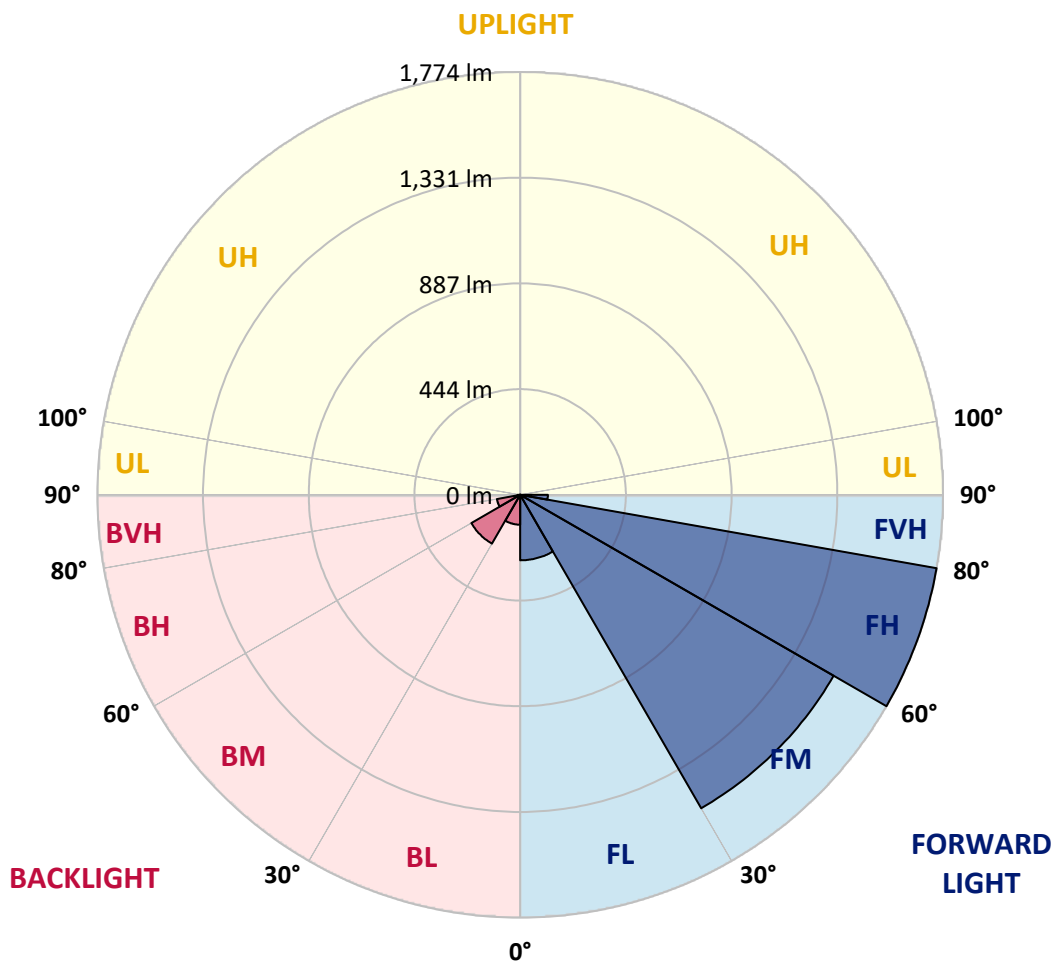
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 274.9  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 1518.6 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 1774.1 | 42.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 116.2  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 125.4  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 236.6  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 99.2   | 2.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 11.5   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  | 631.0  |
| 2.5°  | 643.2  | 643.0  | 641.4  | 640.1  | 639.1  | 638.6  | 639.6  | 636.3  | 633.6  | 630.3  | 626.6  |
| 5°    | 638.4  | 638.2  | 635.6  | 632.9  | 630.4  | 629.5  | 629.4  | 623.7  | 620.3  | 615.2  | 608.4  |
| 7.5°  | 633.1  | 632.0  | 628.5  | 624.2  | 619.8  | 617.8  | 615.6  | 608.2  | 604.4  | 599.3  | 591.5  |
| 10°   | 627.6  | 626.4  | 623.1  | 618.8  | 614.5  | 611.3  | 607.9  | 600.5  | 596.6  | 592.8  | 583.7  |
| 12.5° | 621.9  | 620.9  | 620.0  | 618.2  | 615.2  | 612.5  | 609.7  | 603.5  | 599.3  | 594.9  | 584.3  |
| 15°   | 621.1  | 620.6  | 622.5  | 623.9  | 622.2  | 620.5  | 617.6  | 612.3  | 607.9  | 603.3  | 589.6  |
| 17.5° | 627.8  | 627.6  | 632.4  | 635.9  | 635.0  | 632.0  | 628.0  | 622.2  | 618.6  | 614.8  | 597.6  |
| 20°   | 642.6  | 643.7  | 649.7  | 654.1  | 649.8  | 645.6  | 639.1  | 630.8  | 629.0  | 627.2  | 605.8  |
| 22.5° | 670.6  | 671.7  | 675.9  | 677.5  | 666.5  | 660.4  | 651.4  | 640.8  | 639.6  | 640.8  | 615.8  |
| 25°   | 714.2  | 713.1  | 712.4  | 706.1  | 685.9  | 676.5  | 664.8  | 653.8  | 654.4  | 660.3  | 629.7  |
| 27.5° | 771.7  | 766.1  | 757.2  | 738.1  | 706.2  | 695.6  | 681.5  | 671.5  | 675.4  | 686.5  | 650.7  |
| 30°   | 831.7  | 825.3  | 804.7  | 773.7  | 732.8  | 721.2  | 705.3  | 694.0  | 704.6  | 721.9  | 678.6  |
| 32.5° | 886.9  | 886.1  | 856.2  | 816.2  | 769.7  | 759.5  | 743.6  | 730.9  | 747.8  | 774.2  | 720.4  |
| 35°   | 947.4  | 949.2  | 913.3  | 865.3  | 819.3  | 808.7  | 797.3  | 787.6  | 810.5  | 846.8  | 781.0  |
| 37.5° | 1012.1 | 1015.9 | 973.5  | 919.2  | 875.9  | 871.5  | 864.8  | 860.5  | 895.8  | 946.2  | 865.8  |
| 40°   | 1098.4 | 1094.7 | 1035.7 | 980.1  | 945.5  | 945.2  | 943.2  | 948.3  | 1007.0 | 1075.9 | 974.7  |
| 42.5° | 1191.1 | 1179.8 | 1102.0 | 1045.4 | 1021.8 | 1029.0 | 1033.2 | 1053.9 | 1140.8 | 1233.6 | 1107.4 |
| 45°   | 1290.9 | 1265.6 | 1170.5 | 1114.5 | 1106.5 | 1121.8 | 1136.0 | 1181.1 | 1298.2 | 1412.9 | 1252.7 |
| 47.5° | 1370.5 | 1346.2 | 1241.5 | 1187.0 | 1204.5 | 1227.7 | 1255.3 | 1326.4 | 1474.5 | 1598.3 | 1396.2 |
| 50°   | 1433.2 | 1417.3 | 1313.2 | 1271.6 | 1312.6 | 1348.0 | 1393.4 | 1491.1 | 1657.9 | 1778.7 | 1529.2 |
| 52.5° | 1494.2 | 1482.3 | 1385.5 | 1358.1 | 1439.4 | 1488.4 | 1549.8 | 1667.9 | 1845.9 | 1956.2 | 1640.9 |
| 55°   | 1549.0 | 1540.7 | 1463.2 | 1466.3 | 1588.6 | 1652.4 | 1729.7 | 1869.1 | 2051.0 | 2114.6 | 1735.6 |
| 57.5° | 1611.0 | 1600.2 | 1552.0 | 1601.7 | 1780.3 | 1863.1 | 1963.7 | 2095.1 | 2243.2 | 2255.4 | 1807.7 |
| 60°   | 1673.4 | 1664.0 | 1650.5 | 1758.1 | 2023.7 | 2110.7 | 2206.1 | 2314.3 | 2438.3 | 2364.6 | 1803.4 |
| 62.5° | 1727.4 | 1728.5 | 1752.4 | 1922.3 | 2262.1 | 2362.9 | 2479.1 | 2586.0 | 2614.7 | 2383.7 | 1670.2 |
| 65°   | 1819.2 | 1835.9 | 1907.0 | 2154.8 | 2597.7 | 2732.6 | 2875.1 | 2858.0 | 2663.7 | 2205.9 | 1384.2 |
| 67.5° | 1928.2 | 1957.5 | 2101.9 | 2464.5 | 3021.8 | 3200.8 | 3255.9 | 2919.5 | 2468.2 | 1793.1 | 986.7  |
| 70°   | 1917.3 | 1957.5 | 2185.9 | 2695.5 | 3371.3 | 3491.4 | 3324.0 | 2642.3 | 1959.9 | 1171.4 | 524.2  |
| 72.5° | 1702.5 | 1760.1 | 2014.5 | 2589.6 | 3261.2 | 3250.6 | 2885.7 | 1969.9 | 1164.5 | 470.4  | 204.8  |
| 75°   | 1297.6 | 1355.9 | 1574.8 | 2045.9 | 2577.5 | 2488.8 | 2047.5 | 1088.1 | 441.8  | 186.8  | 129.1  |
| 77.5° | 746.4  | 791.6  | 960.6  | 1254.7 | 1635.3 | 1544.1 | 1139.7 | 483.9  | 215.1  | 130.2  | 100.8  |
| 80°   | 416.8  | 441.8  | 544.6  | 636.4  | 801.4  | 734.5  | 510.0  | 300.8  | 160.5  | 94.4   | 77.8   |
| 82.5° | 329.5  | 351.9  | 440.3  | 401.5  | 366.0  | 337.8  | 292.8  | 267.8  | 128.3  | 59.6   | 46.5   |
| 85°   | 287.8  | 309.1  | 372.7  | 316.2  | 250.0  | 229.2  | 238.0  | 263.6  | 99.7   | 35.9   | 39.7   |
| 87.5° | 266.6  | 295.3  | 332.3  | 243.7  | 194.7  | 172.5  | 219.5  | 288.9  | 32.1   | 22.4   | 16.1   |
| 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°    | 631.0  | 631.0 | 631.0 | 631.0 | 631.0 | 631.0 | 631.0 | 631.0 | 631.0 | 631.0 | 631.0 |
| 2.5°  | 623.5  | 620.0 | 614.5 | 609.7 | 602.0 | 598.0 | 593.6 | 590.5 | 587.9 | 585.9 | 589.2 |
| 5°    | 604.2  | 597.8 | 586.2 | 573.7 | 558.9 | 547.3 | 537.6 | 528.6 | 522.3 | 518.0 | 520.9 |
| 7.5°  | 586.1  | 575.6 | 557.5 | 534.9 | 509.5 | 488.0 | 470.3 | 454.5 | 443.9 | 436.8 | 439.6 |
| 10°   | 575.6  | 562.8 | 534.8 | 499.2 | 461.8 | 428.1 | 400.3 | 376.2 | 359.5 | 350.0 | 351.4 |
| 12.5° | 573.1  | 556.4 | 517.6 | 468.7 | 417.6 | 370.9 | 331.6 | 298.1 | 274.7 | 262.5 | 262.9 |
| 15°   | 575.0  | 553.6 | 501.4 | 439.6 | 375.0 | 315.9 | 266.8 | 226.4 | 199.1 | 185.1 | 185.0 |
| 17.5° | 578.1  | 551.6 | 484.5 | 408.1 | 331.6 | 263.2 | 208.3 | 168.6 | 144.5 | 133.4 | 132.5 |
| 20°   | 581.7  | 548.1 | 465.5 | 374.1 | 286.6 | 214.1 | 163.1 | 132.1 | 116.9 | 110.8 | 110.3 |
| 22.5° | 586.5  | 545.2 | 445.9 | 338.1 | 242.5 | 174.4 | 134.1 | 113.2 | 105.2 | 102.0 | 101.7 |
| 25°   | 594.3  | 543.7 | 425.0 | 300.8 | 202.7 | 145.9 | 116.9 | 103.9 | 99.4  | 97.1  | 96.9  |
| 27.5° | 607.3  | 545.9 | 405.3 | 264.5 | 170.3 | 126.7 | 107.2 | 99.4  | 95.9  | 94.1  | 93.9  |
| 30°   | 624.2  | 552.4 | 384.7 | 230.0 | 145.2 | 113.5 | 101.1 | 96.2  | 93.5  | 91.4  | 91.4  |
| 32.5° | 652.3  | 563.3 | 362.8 | 200.1 | 127.2 | 104.5 | 96.7  | 93.5  | 91.1  | 89.7  | 89.4  |
| 35°   | 693.9  | 584.1 | 342.6 | 175.3 | 114.4 | 97.8  | 93.0  | 90.5  | 88.8  | 87.9  | 87.9  |
| 37.5° | 754.0  | 616.9 | 324.6 | 157.7 | 106.4 | 93.5  | 89.4  | 87.5  | 86.4  | 86.4  | 86.4  |
| 40°   | 835.0  | 662.1 | 310.1 | 145.9 | 102.0 | 90.2  | 86.6  | 85.2  | 84.5  | 84.7  | 84.7  |
| 42.5° | 935.0  | 720.8 | 300.4 | 137.6 | 99.9  | 88.4  | 84.7  | 83.5  | 82.9  | 82.6  | 82.9  |
| 45°   | 1048.9 | 787.6 | 299.2 | 131.4 | 97.8  | 87.0  | 83.5  | 82.3  | 80.9  | 80.0  | 80.0  |
| 47.5° | 1159.5 | 855.5 | 307.8 | 129.4 | 95.5  | 85.6  | 82.5  | 81.1  | 79.2  | 77.3  | 77.3  |
| 50°   | 1257.4 | 913.1 | 319.5 | 130.2 | 94.7  | 83.5  | 80.8  | 80.0  | 77.2  | 75.0  | 74.7  |
| 52.5° | 1335.2 | 957.6 | 329.0 | 132.7 | 95.5  | 81.9  | 78.6  | 78.8  | 75.6  | 73.3  | 73.1  |
| 55°   | 1397.6 | 986.7 | 326.5 | 135.3 | 97.5  | 81.1  | 76.7  | 77.2  | 74.6  | 72.3  | 72.3  |
| 57.5° | 1424.8 | 975.9 | 298.3 | 133.2 | 99.0  | 81.3  | 75.3  | 77.0  | 74.7  | 72.8  | 72.8  |
| 60°   | 1366.2 | 880.2 | 245.7 | 123.8 | 96.9  | 80.8  | 74.6  | 77.8  | 77.6  | 75.5  | 75.3  |
| 62.5° | 1189.1 | 708.9 | 190.6 | 110.1 | 90.5  | 77.6  | 72.9  | 77.6  | 79.9  | 79.2  | 79.1  |
| 65°   | 916.5  | 504.8 | 145.6 | 95.3  | 81.6  | 72.3  | 68.5  | 72.8  | 75.8  | 76.7  | 76.4  |
| 67.5° | 594.9  | 309.3 | 112.2 | 81.3  | 71.7  | 66.1  | 62.7  | 64.7  | 65.2  | 65.2  | 64.9  |
| 70°   | 292.5  | 166.5 | 89.4  | 68.5  | 61.5  | 59.6  | 57.8  | 56.7  | 55.5  | 54.7  | 54.7  |
| 72.5° | 144.4  | 108.9 | 73.5  | 57.9  | 53.0  | 52.2  | 51.8  | 50.6  | 49.6  | 48.6  | 48.1  |
| 75°   | 106.7  | 88.6  | 62.5  | 48.8  | 45.6  | 44.7  | 45.6  | 44.6  | 44.3  | 43.6  | 43.1  |
| 77.5° | 87.8   | 75.5  | 53.9  | 41.9  | 39.0  | 37.5  | 38.8  | 39.0  | 39.3  | 38.1  | 37.5  |
| 80°   | 71.2   | 63.8  | 45.0  | 34.7  | 32.1  | 31.1  | 31.9  | 33.5  | 34.0  | 32.1  | 31.4  |
| 82.5° | 51.4   | 52.2  | 36.3  | 27.0  | 25.0  | 24.1  | 25.8  | 27.8  | 28.3  | 25.6  | 25.0  |
| 85°   | 43.1   | 43.6  | 27.8  | 19.3  | 17.1  | 15.8  | 18.5  | 20.8  | 22.2  | 19.5  | 18.9  |
| 87.5° | 18.0   | 25.6  | 16.1  | 10.8  | 9.5   | 8.3   | 9.9   | 11.0  | 13.4  | 12.2  | 12.0  |
| 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)