

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P628729

Luminaire Tested: GWS-SA1A-730-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1A-730-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

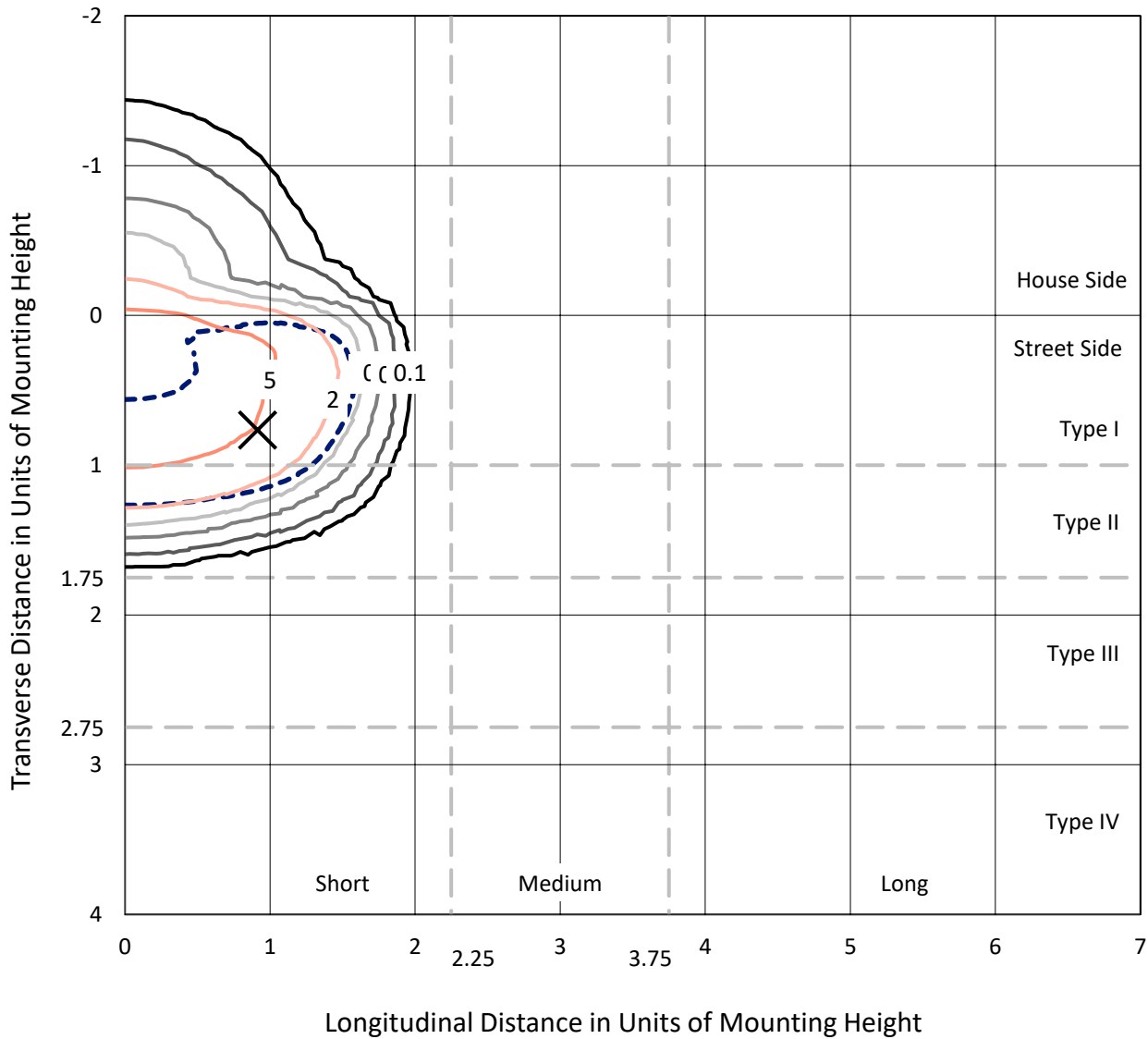
Lumens per Lamp: N/A  
Luminaire Lumens: 1950.3 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

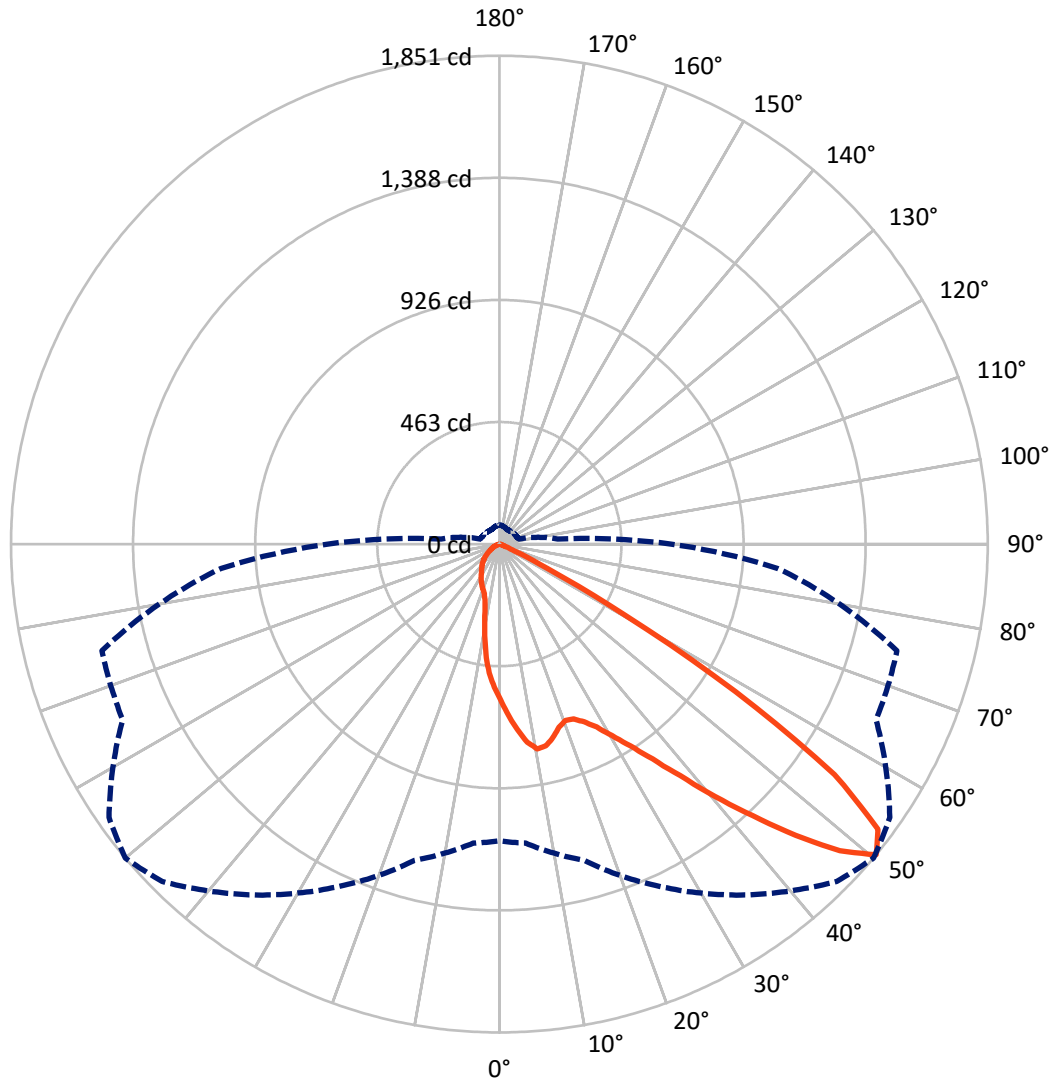
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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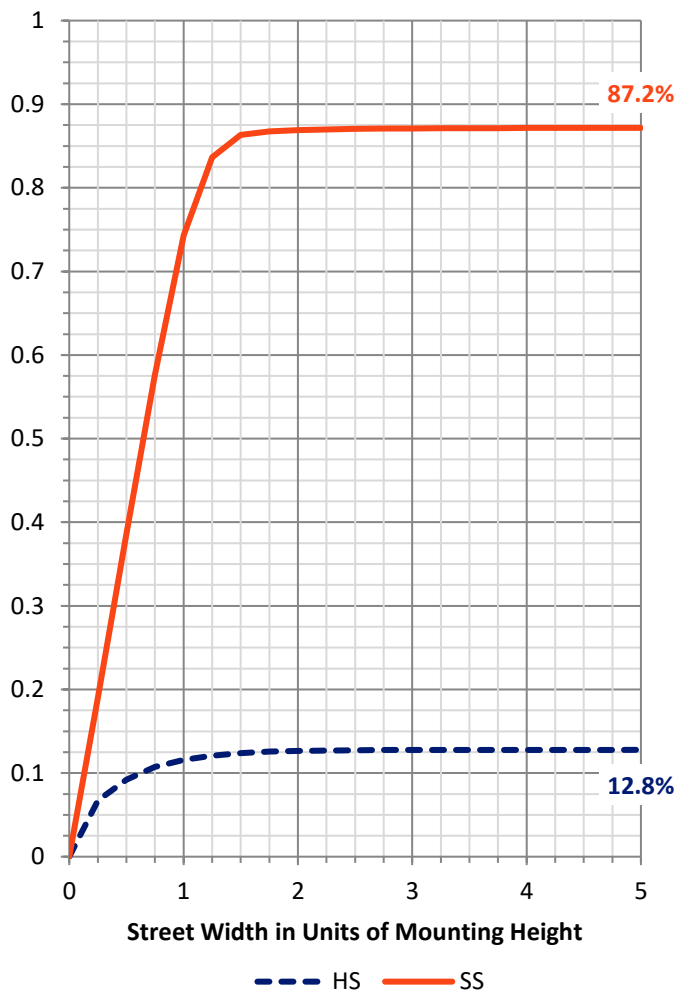
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 250.6    | 0.0    | 250.6  |
|                    | % Fixture | 12.8     | 0.0    | 12.8   |
| <b>Street Side</b> | Lumens    | 1699.7   | 0.0    | 1699.7 |
|                    | % Fixture | 87.2     | 0.0    | 87.2   |
| <b>Total</b>       | Lumens    | 1950.3   | 0.0    | 1950.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 54.8   | 2.8       |
| 10°-20°   | 141.4  | 7.3       |
| 20°-30°   | 233.4  | 12.0      |
| 30°-40°   | 385.1  | 19.7      |
| 40°-50°   | 609.4  | 31.2      |
| 50°-60°   | 461.4  | 23.7      |
| 60°-70°   | 57.7   | 3.0       |
| 70°-80°   | 6.5    | 0.3       |
| 80°-90°   | 0.5    | 0.0       |
| 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°    | 1950.3 | 100.0     |
| 0°-180°   | 1950.3 | 100.0     |

**Coefficient of Utilization**



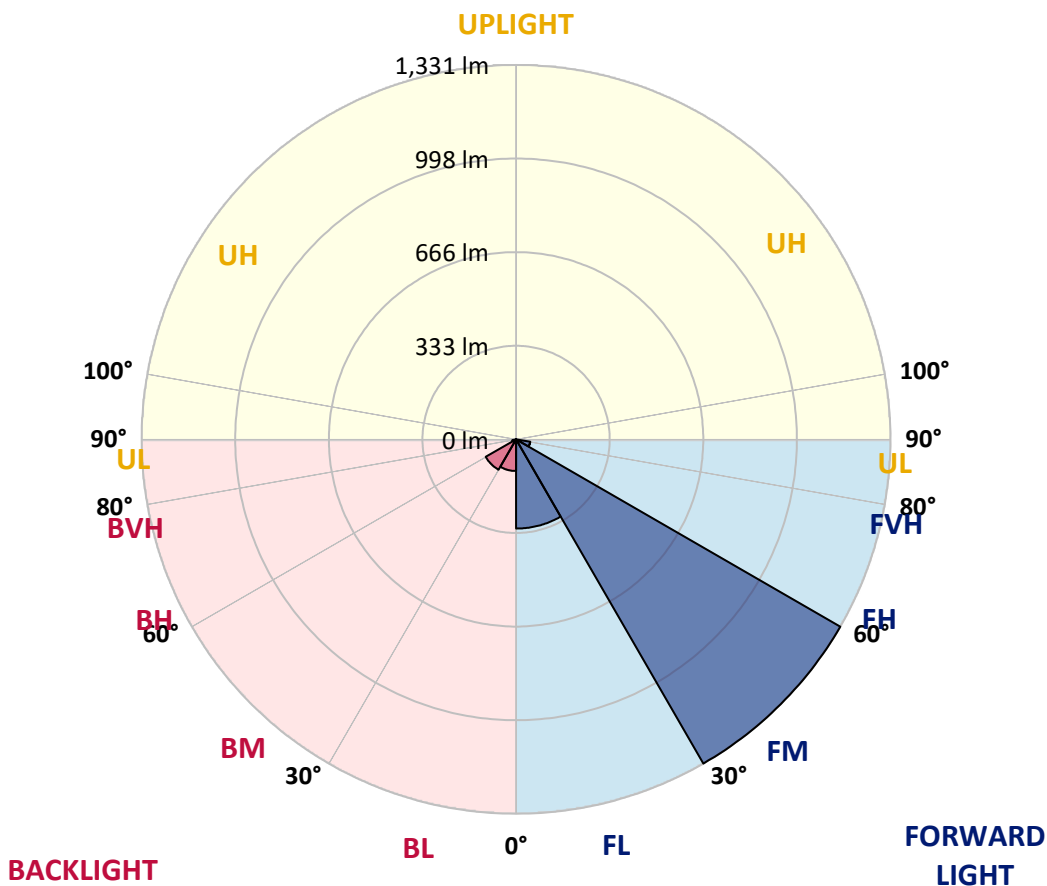
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 317.1  | 16.3      |                         |      |        |
| FM (30°-60°)   | 1331.3 | 68.3      |                         |      |        |
| FH (60°-80°)   | 51.1   | 2.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.2    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 112.5  | 5.8       | B1/500                  |      |        |
| BM (30°-60°)   | 124.6  | 6.4       | B0/220                  |      |        |
| BH (60°-80°)   | 13.2   | 0.7       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.3    | 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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 50°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  | 590.9  |
| 2.5°  | 673.3  | 678.7  | 677.2  | 670.1  | 662.5  | 657.1  | 648.8  | 646.2  | 627.2  | 614.1  | 600.1  |
| 5°    | 754.6  | 756.3  | 754.4  | 745.9  | 732.5  | 719.7  | 706.0  | 698.0  | 666.2  | 637.6  | 608.5  |
| 7.5°  | 774.1  | 772.0  | 775.6  | 779.8  | 778.0  | 772.4  | 757.9  | 749.2  | 711.3  | 664.7  | 620.6  |
| 10°   | 713.2  | 708.6  | 721.7  | 743.8  | 767.0  | 793.2  | 789.5  | 790.2  | 755.3  | 698.9  | 636.3  |
| 12.5° | 632.4  | 630.6  | 640.4  | 666.0  | 711.5  | 770.9  | 785.2  | 809.2  | 795.6  | 735.8  | 654.3  |
| 15°   | 597.0  | 597.9  | 603.9  | 620.0  | 652.7  | 726.6  | 760.9  | 804.2  | 831.6  | 771.7  | 674.2  |
| 17.5° | 602.4  | 605.7  | 605.5  | 610.9  | 630.8  | 690.0  | 730.1  | 788.4  | 859.5  | 812.9  | 697.0  |
| 20°   | 638.9  | 642.3  | 637.3  | 633.2  | 639.9  | 680.7  | 713.9  | 772.4  | 878.2  | 854.5  | 721.2  |
| 22.5° | 693.7  | 697.6  | 685.7  | 674.0  | 669.8  | 695.9  | 720.1  | 765.9  | 892.5  | 892.5  | 742.7  |
| 25°   | 760.0  | 765.4  | 747.0  | 726.2  | 714.3  | 728.0  | 746.2  | 780.6  | 907.2  | 926.7  | 757.4  |
| 27.5° | 834.0  | 834.2  | 818.4  | 795.1  | 772.8  | 774.5  | 785.4  | 813.6  | 923.3  | 963.4  | 768.9  |
| 30°   | 917.4  | 917.9  | 897.0  | 868.9  | 840.9  | 833.3  | 842.6  | 863.9  | 956.9  | 1009.6 | 784.8  |
| 32.5° | 1025.1 | 1027.7 | 997.6  | 956.4  | 920.0  | 905.7  | 911.1  | 933.5  | 1010.4 | 1067.6 | 808.8  |
| 35°   | 1170.6 | 1173.4 | 1129.0 | 1074.6 | 1016.7 | 995.2  | 1000.6 | 1023.2 | 1087.8 | 1149.8 | 847.0  |
| 37.5° | 1314.3 | 1318.0 | 1273.1 | 1222.4 | 1142.9 | 1107.3 | 1112.9 | 1134.4 | 1204.0 | 1263.4 | 908.3  |
| 40°   | 1413.6 | 1418.6 | 1404.7 | 1370.5 | 1296.8 | 1250.0 | 1256.7 | 1264.5 | 1331.9 | 1399.3 | 987.7  |
| 42.5° | 1465.9 | 1473.0 | 1478.9 | 1496.4 | 1457.6 | 1418.4 | 1407.1 | 1407.6 | 1462.0 | 1537.8 | 1070.3 |
| 45°   | 1469.1 | 1476.0 | 1506.4 | 1573.8 | 1603.3 | 1595.1 | 1574.5 | 1560.6 | 1561.3 | 1630.0 | 1122.0 |
| 47.5° | 1367.0 | 1379.8 | 1436.8 | 1568.8 | 1679.8 | 1747.5 | 1737.1 | 1704.1 | 1603.1 | 1636.2 | 1116.4 |
| 50°   | 1125.1 | 1137.7 | 1241.3 | 1431.2 | 1624.1 | 1808.4 | 1851.3 | 1806.9 | 1575.8 | 1559.9 | 1059.0 |
| 52.5° | 817.1  | 818.4  | 885.6  | 1107.5 | 1398.4 | 1696.1 | 1797.1 | 1792.8 | 1534.2 | 1467.4 | 980.7  |
| 55°   | 388.2  | 383.5  | 459.1  | 625.0  | 967.1  | 1371.8 | 1542.0 | 1590.3 | 1475.2 | 1400.6 | 920.0  |
| 57.5° | 113.0  | 115.3  | 148.9  | 243.9  | 483.8  | 876.7  | 1056.1 | 1145.9 | 1210.9 | 1151.5 | 713.6  |
| 60°   | 50.7   | 50.9   | 56.6   | 74.3   | 161.1  | 407.8  | 545.9  | 657.1  | 724.0  | 670.9  | 354.0  |
| 62.5° | 36.8   | 36.9   | 39.2   | 42.0   | 54.8   | 138.1  | 204.8  | 272.9  | 277.9  | 181.9  | 89.7   |
| 65°   | 30.6   | 30.6   | 31.0   | 31.0   | 32.9   | 49.4   | 62.2   | 80.2   | 67.6   | 50.1   | 35.1   |
| 67.5° | 24.7   | 24.9   | 25.2   | 25.2   | 24.7   | 24.7   | 26.7   | 29.3   | 31.4   | 38.8   | 32.3   |
| 70°   | 19.3   | 19.1   | 19.1   | 19.3   | 18.7   | 16.0   | 17.3   | 19.7   | 21.5   | 30.3   | 28.0   |
| 72.5° | 15.0   | 15.2   | 15.0   | 14.3   | 13.0   | 9.5    | 10.2   | 12.8   | 13.7   | 18.9   | 18.9   |
| 75°   | 11.3   | 11.5   | 10.8   | 8.2    | 5.4    | 3.0    | 3.9    | 6.3    | 8.0    | 9.3    | 6.9    |
| 77.5° | 1.5    | 1.5    | 1.1    | 1.1    | 0.9    | 1.1    | 1.1    | 1.5    | 2.2    | 2.2    | 1.7    |
| 80°   | 0.2    | 0.2    | 0.2    | 0.4    | 0.6    | 0.7    | 0.7    | 0.7    | 0.7    | 0.9    | 0.9    |
| 82.5° | 0.2    | 0.2    | 0.2    | 0.2    | 0.6    | 0.6    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.2    | 0.4    | 0.6    | 0.6    | 0.7    | 0.7    | 0.7    | 0.7    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.2    | 0.4    | 0.6    | 0.6    | 0.6    | 0.7    | 0.7    | 0.7    |
| 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°    | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 | 590.9 |
| 2.5°  | 591.8 | 581.0 | 568.0 | 559.1 | 546.5 | 538.1 | 526.3 | 518.3 | 511.4 | 506.0 | 509.0 |
| 5°    | 592.0 | 574.9 | 548.4 | 525.7 | 501.0 | 478.4 | 454.1 | 434.9 | 417.7 | 409.9 | 414.1 |
| 7.5°  | 595.7 | 571.2 | 530.5 | 490.3 | 442.9 | 396.1 | 352.3 | 316.7 | 299.1 | 290.7 | 293.3 |
| 10°   | 602.9 | 569.5 | 510.7 | 443.8 | 367.0 | 303.1 | 260.6 | 236.5 | 226.7 | 221.5 | 222.4 |
| 12.5° | 609.6 | 568.4 | 484.9 | 382.8 | 289.6 | 235.2 | 213.1 | 209.8 | 211.8 | 212.0 | 211.8 |
| 15°   | 618.7 | 566.4 | 452.9 | 320.0 | 231.7 | 203.3 | 203.8 | 208.6 | 213.5 | 215.0 | 214.6 |
| 17.5° | 628.4 | 563.2 | 411.7 | 259.9 | 196.6 | 194.0 | 200.5 | 207.0 | 211.8 | 212.5 | 212.7 |
| 20°   | 638.4 | 556.7 | 364.8 | 212.2 | 180.2 | 186.9 | 194.2 | 199.0 | 202.5 | 203.6 | 204.0 |
| 22.5° | 643.0 | 543.0 | 310.6 | 178.0 | 169.3 | 178.2 | 183.6 | 189.9 | 191.0 | 186.9 | 187.7 |
| 25°   | 640.6 | 519.8 | 257.7 | 155.0 | 158.3 | 167.3 | 175.2 | 172.1 | 167.4 | 164.5 | 165.4 |
| 27.5° | 633.0 | 489.0 | 205.9 | 138.1 | 146.6 | 158.0 | 158.9 | 155.4 | 154.6 | 152.2 | 153.0 |
| 30°   | 624.8 | 453.5 | 165.6 | 124.6 | 134.8 | 146.6 | 143.9 | 145.2 | 145.3 | 142.6 | 143.5 |
| 32.5° | 619.8 | 416.4 | 131.8 | 115.5 | 127.2 | 129.4 | 135.0 | 137.6 | 137.7 | 131.2 | 132.4 |
| 35°   | 621.5 | 379.8 | 111.6 | 108.0 | 120.1 | 119.5 | 127.3 | 128.8 | 118.1 | 109.2 | 110.1 |
| 37.5° | 635.0 | 346.0 | 100.1 | 102.3 | 107.9 | 112.1 | 118.1 | 108.2 | 105.8 | 101.7 | 102.3 |
| 40°   | 660.3 | 317.2 | 93.2  | 98.8  | 99.5  | 106.4 | 97.3  | 98.6  | 98.8  | 96.2  | 96.7  |
| 42.5° | 689.8 | 293.3 | 89.1  | 96.7  | 94.9  | 96.0  | 86.9  | 89.5  | 92.3  | 91.1  | 91.3  |
| 45°   | 704.7 | 269.9 | 85.6  | 89.7  | 90.2  | 79.6  | 77.6  | 80.4  | 83.9  | 84.5  | 84.6  |
| 47.5° | 691.5 | 247.6 | 81.9  | 79.5  | 83.2  | 72.6  | 70.2  | 71.1  | 75.2  | 77.4  | 77.8  |
| 50°   | 651.2 | 222.0 | 76.3  | 70.4  | 68.3  | 65.2  | 62.9  | 63.1  | 67.8  | 71.7  | 72.4  |
| 52.5° | 594.6 | 195.3 | 67.2  | 59.6  | 54.9  | 57.4  | 57.9  | 56.8  | 61.1  | 65.0  | 65.7  |
| 55°   | 539.6 | 161.9 | 53.3  | 48.4  | 44.2  | 49.4  | 50.9  | 49.4  | 50.7  | 53.3  | 53.5  |
| 57.5° | 380.0 | 91.5  | 40.8  | 40.1  | 36.6  | 42.3  | 44.7  | 42.5  | 40.3  | 42.0  | 42.3  |
| 60°   | 176.2 | 47.9  | 31.4  | 31.4  | 30.4  | 36.4  | 40.5  | 37.3  | 33.0  | 33.8  | 34.3  |
| 62.5° | 55.1  | 30.3  | 23.0  | 21.7  | 24.9  | 31.0  | 34.3  | 31.2  | 26.2  | 26.2  | 26.9  |
| 65°   | 31.2  | 26.0  | 18.2  | 16.7  | 20.2  | 24.9  | 26.9  | 23.6  | 19.1  | 18.7  | 18.7  |
| 67.5° | 29.0  | 24.7  | 16.1  | 13.6  | 14.3  | 16.0  | 16.7  | 14.5  | 13.2  | 13.0  | 13.2  |
| 70°   | 23.9  | 20.6  | 13.0  | 9.3   | 8.7   | 8.5   | 8.9   | 8.4   | 8.0   | 8.2   | 8.7   |
| 72.5° | 14.9  | 12.4  | 8.2   | 5.6   | 4.8   | 4.6   | 4.6   | 4.6   | 4.5   | 4.5   | 4.5   |
| 75°   | 5.4   | 4.6   | 3.7   | 2.8   | 2.4   | 2.2   | 2.2   | 2.4   | 2.2   | 2.0   | 1.9   |
| 77.5° | 1.7   | 1.5   | 1.5   | 1.5   | 1.3   | 1.1   | 0.9   | 0.9   | 0.7   | 0.6   | 0.6   |
| 80°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.7   | 0.7   | 0.6   | 0.4   | 0.2   | 0.2   | 0.0   |
| 82.5° | 0.9   | 0.9   | 0.9   | 0.7   | 0.7   | 0.7   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0   |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.6   | 0.4   | 0.2   | 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   | 0.0   |

(END OF REPORT)