

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: P647709

Luminaire Tested: **GALN-SA1A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2114.9 lumens  
Efficiency: N/A  
Efficacy: 64.1 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

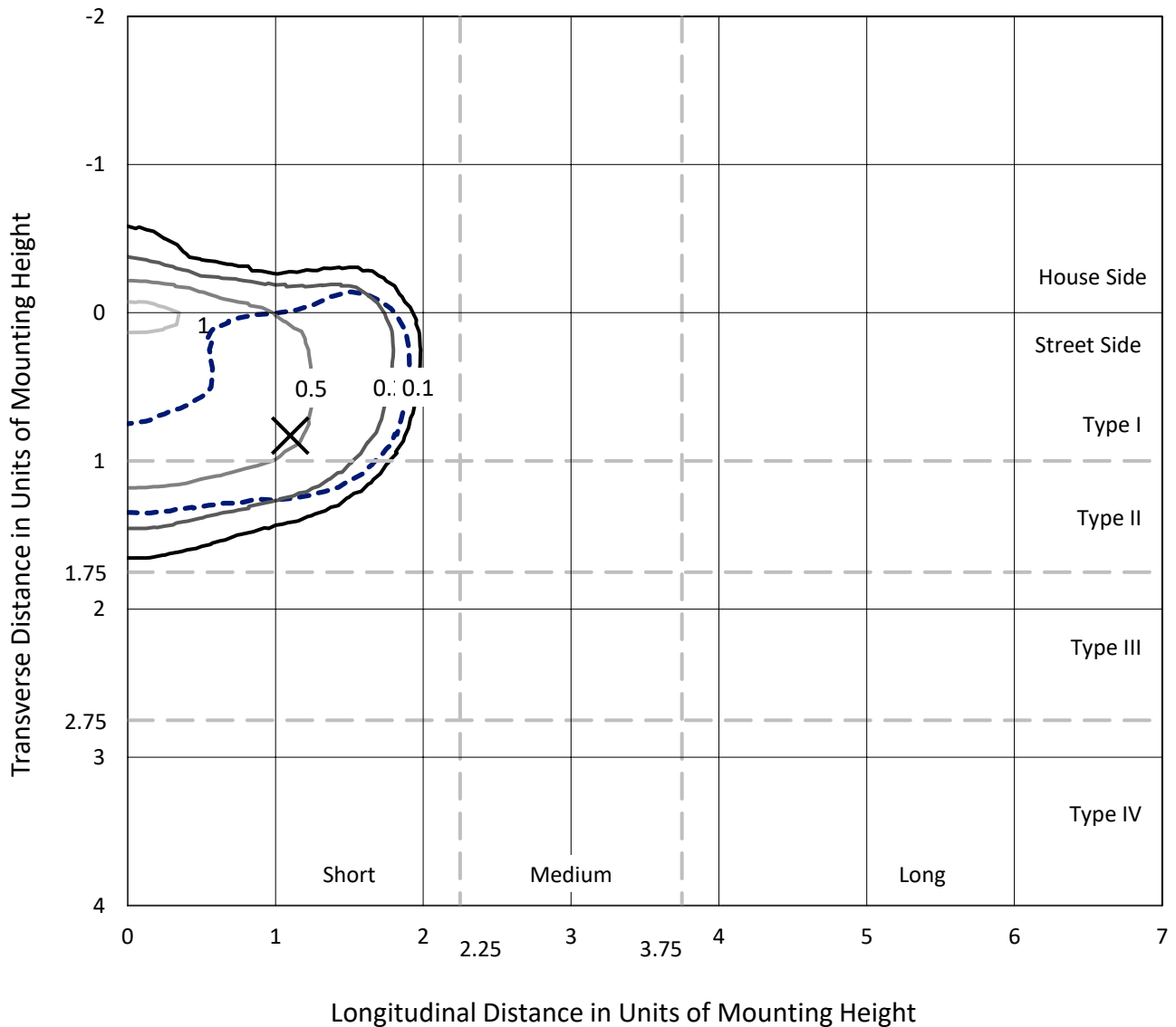
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

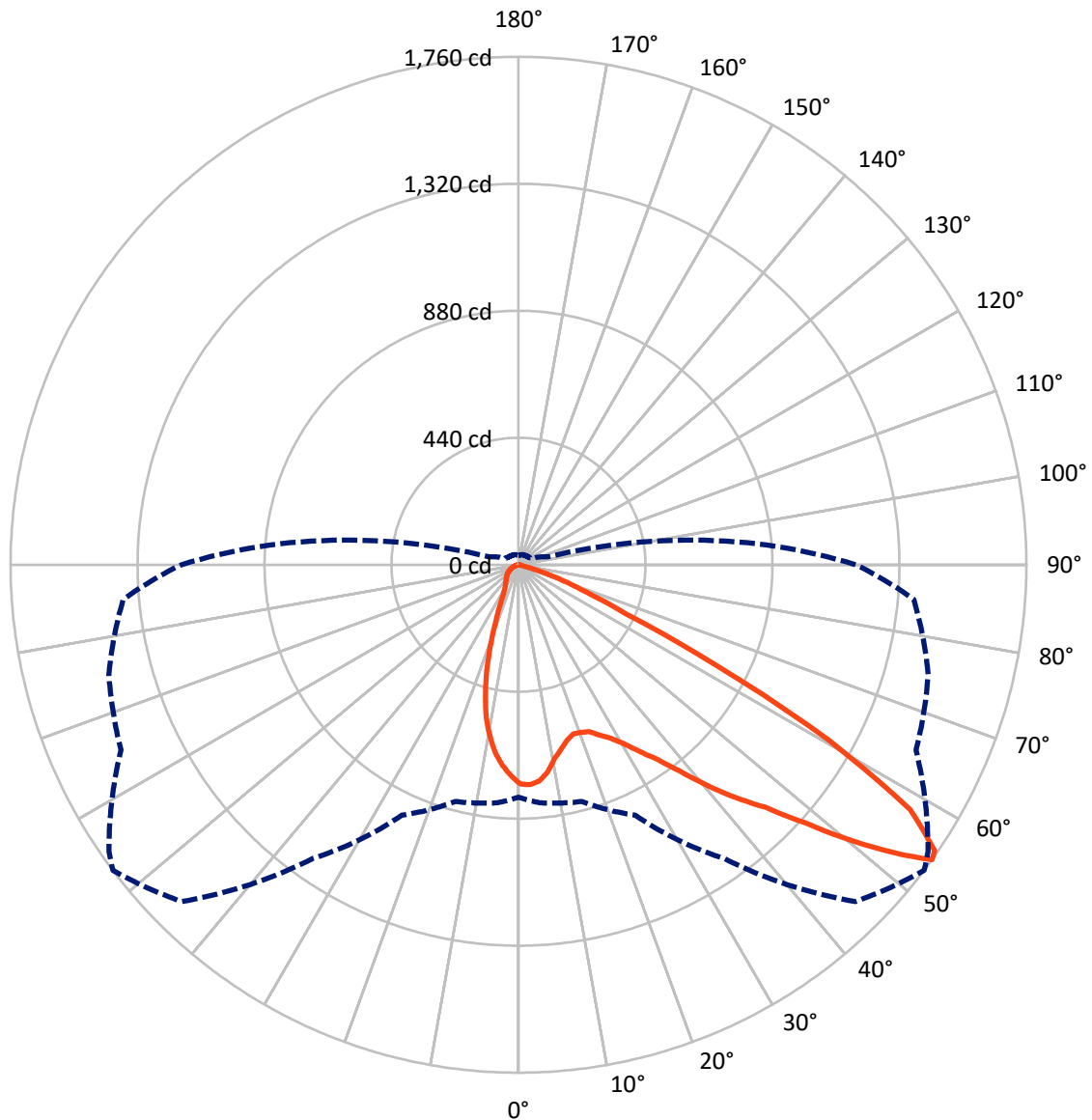
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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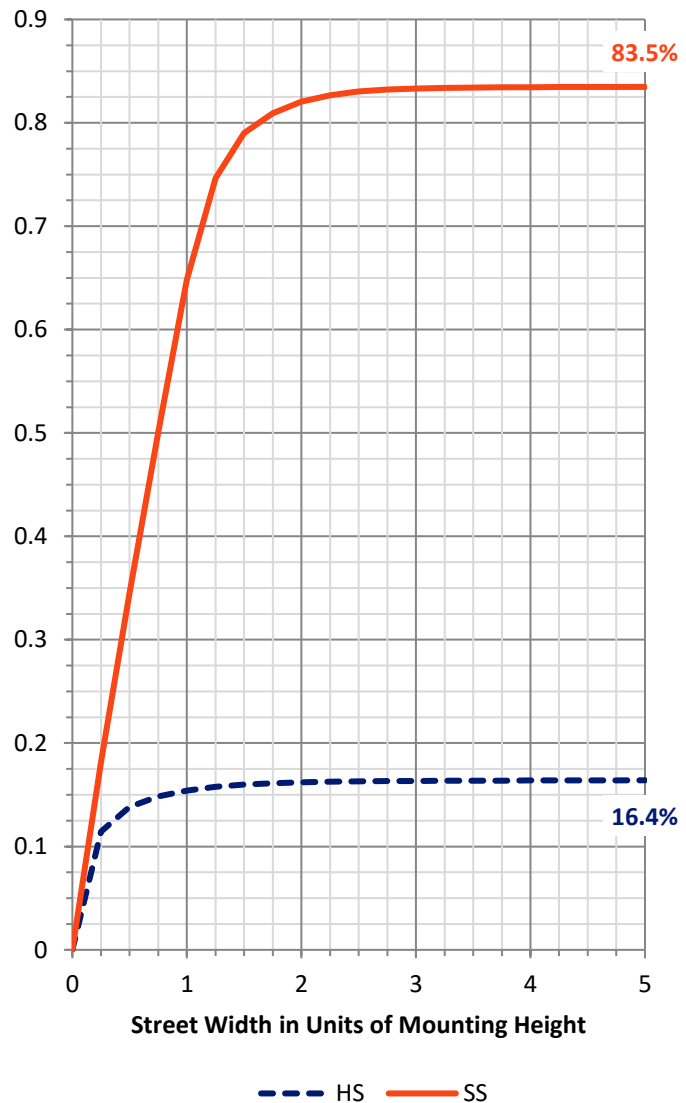
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 349.9    | 0.0    | 349.9  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 1765.0   | 0.0    | 1765.0 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 2114.9   | 0.0    | 2114.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.2   | 3.1       |
| 10°-20°   | 149.4  | 7.1       |
| 20°-30°   | 212.4  | 10.0      |
| 30°-40°   | 327.7  | 15.5      |
| 40°-50°   | 513.9  | 24.3      |
| 50°-60°   | 596.9  | 28.2      |
| 60°-70°   | 225.6  | 10.7      |
| 70°-80°   | 21.4   | 1.0       |
| 80°-90°   | 2.4    | 0.1       |
| 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°    | 2114.9 | 100.0     |
| 0°-180°   | 2114.9 | 100.0     |

**Coefficient of Utilization**

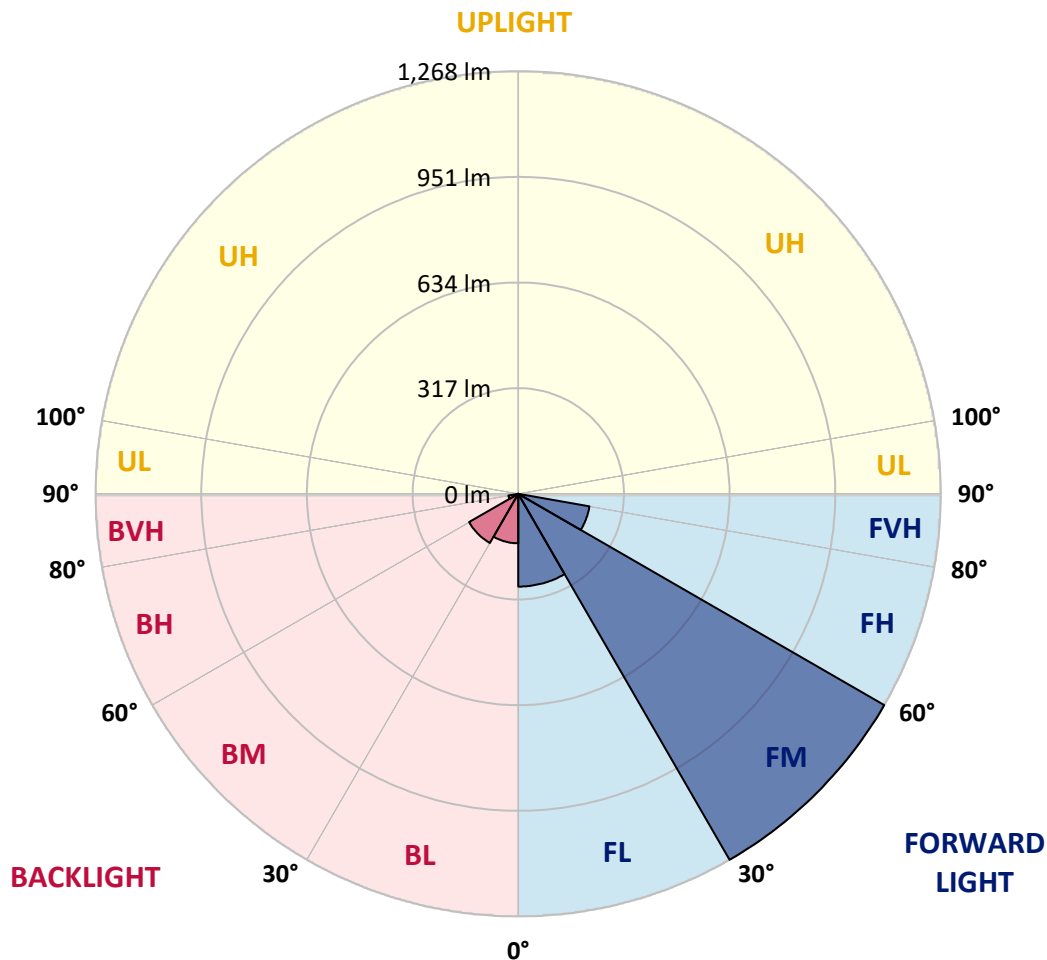


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 278.5  | 13.2      |                         |      |        |
| FM (30°-60°)   | 1268.2 | 60.0      |                         |      |        |
| FH (60°-80°)   | 217.0  | 10.3      |                         |      | G0/660 |
| FVH (80°-90°)  | 1.2    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 148.5  | 7.0       | B1/500                  |      |        |
| BM (30°-60°)   | 170.3  | 8.1       | B0/220                  |      |        |
| BH (60°-80°)   | 30.0   | 1.4       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 1.2    | 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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  | 759.7  |
| 2.5°  | 755.7  | 749.0  | 755.7  | 756.5  | 761.2  | 765.5  | 762.8  | 769.1  | 765.5  | 761.6  | 760.4  |
| 5°    | 694.6  | 703.7  | 704.1  | 718.2  | 715.1  | 741.1  | 752.5  | 749.4  | 768.7  | 767.5  | 764.8  |
| 7.5°  | 639.9  | 636.3  | 641.0  | 657.6  | 678.5  | 708.4  | 725.0  | 724.6  | 752.1  | 771.9  | 769.8  |
| 10°   | 589.1  | 588.7  | 598.4  | 611.5  | 629.2  | 660.8  | 683.6  | 695.0  | 738.0  | 767.9  | 772.3  |
| 12.5° | 554.8  | 553.2  | 563.8  | 574.5  | 602.4  | 626.9  | 656.0  | 661.6  | 710.8  | 754.1  | 761.2  |
| 15°   | 532.3  | 535.8  | 536.6  | 557.1  | 574.9  | 607.1  | 630.0  | 641.4  | 698.2  | 743.1  | 770.2  |
| 17.5° | 528.4  | 533.1  | 533.5  | 550.4  | 569.3  | 596.5  | 616.6  | 632.0  | 687.6  | 748.6  | 770.6  |
| 20°   | 536.2  | 533.5  | 535.8  | 546.5  | 565.0  | 591.0  | 620.1  | 625.3  | 684.0  | 751.4  | 775.0  |
| 22.5° | 558.7  | 557.9  | 552.0  | 560.6  | 573.6  | 600.9  | 628.4  | 636.3  | 694.2  | 765.5  | 778.5  |
| 25°   | 583.5  | 587.9  | 582.3  | 581.1  | 590.2  | 617.0  | 653.6  | 663.9  | 728.5  | 791.1  | 789.6  |
| 27.5° | 630.0  | 625.7  | 625.7  | 620.1  | 617.8  | 630.8  | 680.8  | 697.8  | 766.7  | 824.3  | 802.2  |
| 30°   | 674.6  | 679.3  | 675.7  | 677.7  | 661.9  | 660.8  | 719.4  | 740.3  | 834.5  | 874.7  | 829.0  |
| 32.5° | 745.0  | 738.8  | 744.6  | 739.5  | 718.6  | 697.3  | 771.9  | 793.5  | 916.4  | 932.6  | 869.1  |
| 35°   | 803.7  | 801.0  | 826.2  | 825.4  | 791.5  | 770.6  | 827.4  | 859.7  | 973.6  | 1001.9 | 916.4  |
| 37.5° | 887.3  | 882.1  | 910.9  | 924.7  | 894.3  | 863.3  | 906.9  | 944.5  | 1026.7 | 1057.5 | 964.9  |
| 40°   | 973.2  | 986.2  | 1024.8 | 1047.7 | 1015.3 | 974.0  | 1004.3 | 1015.7 | 1062.2 | 1093.8 | 998.0  |
| 42.5° | 1081.9 | 1100.8 | 1140.2 | 1159.9 | 1157.2 | 1112.3 | 1103.2 | 1102.8 | 1087.8 | 1083.5 | 1022.4 |
| 45°   | 1186.3 | 1179.3 | 1239.9 | 1282.9 | 1317.6 | 1304.6 | 1198.5 | 1186.7 | 1128.4 | 1098.9 | 1028.7 |
| 47.5° | 1232.1 | 1229.7 | 1271.0 | 1347.5 | 1465.7 | 1481.8 | 1337.2 | 1291.6 | 1197.0 | 1163.5 | 1063.0 |
| 50°   | 1172.9 | 1185.1 | 1226.1 | 1310.8 | 1492.1 | 1615.4 | 1507.4 | 1446.0 | 1276.9 | 1242.3 | 1144.2 |
| 52.5° | 979.8  | 988.1  | 1027.1 | 1134.7 | 1402.3 | 1694.2 | 1670.5 | 1635.1 | 1423.9 | 1366.4 | 1285.6 |
| 54°   | 805.7  | 827.8  | 849.1  | 957.1  | 1242.3 | 1650.5 | 1760.0 | 1732.8 | 1519.6 | 1469.6 | 1374.6 |
| 55°   | 701.7  | 714.7  | 730.1  | 837.7  | 1131.6 | 1576.4 | 1749.8 | 1752.1 | 1583.9 | 1502.0 | 1434.5 |
| 57.5° | 512.6  | 521.6  | 505.9  | 553.6  | 777.0  | 1280.1 | 1600.5 | 1664.3 | 1670.5 | 1550.4 | 1471.2 |
| 60°   | 391.7  | 395.6  | 377.9  | 385.3  | 483.0  | 878.6  | 1237.9 | 1314.8 | 1507.0 | 1355.0 | 1246.2 |
| 62.5° | 303.8  | 304.6  | 304.2  | 317.2  | 332.9  | 516.9  | 774.2  | 842.4  | 1039.0 | 962.2  | 846.3  |
| 65°   | 223.8  | 220.3  | 226.5  | 266.0  | 284.1  | 325.0  | 407.8  | 457.4  | 564.6  | 476.8  | 340.8  |
| 67.5° | 145.0  | 146.2  | 152.5  | 197.8  | 243.5  | 249.4  | 251.0  | 247.0  | 247.4  | 136.3  | 85.5   |
| 70°   | 87.1   | 89.0   | 87.1   | 111.9  | 174.1  | 178.8  | 163.5  | 159.6  | 124.5  | 32.3   | 31.9   |
| 72.5° | 51.6   | 48.9   | 43.8   | 48.1   | 72.5   | 86.7   | 78.0   | 77.6   | 48.9   | 18.9   | 18.9   |
| 75°   | 21.7   | 19.7   | 16.1   | 14.6   | 19.3   | 18.6   | 18.6   | 16.5   | 13.0   | 12.6   | 11.8   |
| 77.5° | 4.3    | 4.3    | 3.1    | 3.5    | 4.7    | 5.5    | 6.7    | 6.7    | 7.9    | 7.9    | 7.5    |
| 80°   | 0.0    | 0.4    | 1.2    | 2.3    | 3.5    | 5.1    | 5.9    | 5.9    | 6.7    | 6.7    | 5.5    |
| 82.5° | 0.0    | 0.4    | 1.2    | 2.3    | 3.1    | 4.7    | 5.9    | 5.9    | 6.7    | 7.1    | 5.9    |
| 85°   | 0.0    | 0.4    | 1.2    | 2.0    | 3.1    | 3.9    | 3.9    | 3.5    | 2.7    | 2.3    | 1.6    |
| 87.5° | 0.0    | 0.0    | 0.4    | 0.8    | 0.4    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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°    | 759.7  | 759.7 | 759.7 | 759.7 | 759.7 | 759.7 | 759.7 | 759.7 | 759.7 | 759.7 | 759.7 |
| 2.5°  | 763.2  | 762.8 | 753.3 | 738.0 | 734.4 | 721.4 | 719.8 | 712.0 | 716.3 | 701.7 | 700.2 |
| 5°    | 756.8  | 752.1 | 740.7 | 730.9 | 702.1 | 681.6 | 665.5 | 645.7 | 634.3 | 636.3 | 628.8 |
| 7.5°  | 765.9  | 753.7 | 733.6 | 699.4 | 664.3 | 628.4 | 609.1 | 568.9 | 554.4 | 532.7 | 529.5 |
| 10°   | 756.5  | 747.5 | 716.3 | 659.5 | 611.1 | 559.5 | 514.2 | 469.6 | 435.7 | 421.2 | 418.0 |
| 12.5° | 755.7  | 739.9 | 687.9 | 624.9 | 554.8 | 480.7 | 414.9 | 359.3 | 325.8 | 306.9 | 302.6 |
| 15°   | 743.5  | 724.6 | 656.0 | 571.3 | 474.3 | 382.2 | 310.5 | 256.9 | 231.3 | 220.3 | 223.4 |
| 17.5° | 744.6  | 716.3 | 624.1 | 514.6 | 395.2 | 280.5 | 212.0 | 184.4 | 177.7 | 180.5 | 180.5 |
| 20°   | 743.5  | 697.8 | 585.4 | 449.1 | 302.6 | 194.7 | 155.7 | 145.8 | 150.1 | 158.8 | 156.8 |
| 22.5° | 737.2  | 689.1 | 550.1 | 380.2 | 222.6 | 144.2 | 124.9 | 125.3 | 132.0 | 142.7 | 145.0 |
| 25°   | 741.9  | 669.8 | 505.1 | 310.5 | 162.3 | 115.0 | 108.4 | 111.1 | 118.2 | 126.1 | 127.6 |
| 27.5° | 738.4  | 656.0 | 458.2 | 241.2 | 118.6 | 98.9  | 98.5  | 101.6 | 104.8 | 110.7 | 110.7 |
| 30°   | 742.3  | 643.4 | 412.1 | 179.3 | 97.7  | 90.6  | 89.0  | 91.4  | 94.6  | 95.8  | 95.4  |
| 32.5° | 756.8  | 633.9 | 358.9 | 134.0 | 86.3  | 82.8  | 82.8  | 82.8  | 82.4  | 83.9  | 84.3  |
| 35°   | 788.8  | 635.5 | 312.0 | 103.6 | 78.8  | 76.0  | 74.9  | 73.3  | 72.5  | 73.3  | 73.7  |
| 37.5° | 823.5  | 634.7 | 263.6 | 88.2  | 73.3  | 70.9  | 68.2  | 65.8  | 65.4  | 66.2  | 65.0  |
| 40°   | 838.8  | 642.2 | 218.7 | 79.2  | 68.2  | 65.4  | 61.1  | 59.1  | 59.5  | 60.3  | 59.5  |
| 42.5° | 859.7  | 644.6 | 189.5 | 72.1  | 63.4  | 59.1  | 56.4  | 53.9  | 53.6  | 54.7  | 54.3  |
| 45°   | 859.3  | 631.2 | 158.8 | 68.2  | 59.1  | 54.3  | 50.8  | 48.9  | 48.9  | 49.6  | 50.0  |
| 47.5° | 884.6  | 629.2 | 136.3 | 64.6  | 56.0  | 51.2  | 46.9  | 45.3  | 44.9  | 44.9  | 44.2  |
| 50°   | 943.2  | 656.8 | 119.0 | 60.7  | 52.0  | 47.7  | 44.2  | 42.1  | 40.6  | 39.8  | 39.4  |
| 52.5° | 1057.9 | 742.7 | 105.6 | 56.0  | 47.7  | 44.2  | 41.0  | 39.4  | 37.4  | 35.5  | 35.1  |
| 54°   | 1169.0 | 831.3 | 104.8 | 52.0  | 44.2  | 41.7  | 39.0  | 38.2  | 35.9  | 33.1  | 32.3  |
| 55°   | 1219.1 | 883.0 | 107.6 | 48.9  | 41.7  | 40.2  | 37.8  | 37.0  | 34.7  | 31.6  | 31.2  |
| 57.5° | 1260.4 | 903.0 | 106.0 | 40.6  | 37.8  | 37.4  | 35.5  | 34.3  | 31.6  | 27.2  | 26.4  |
| 60°   | 1014.5 | 682.8 | 76.0  | 35.9  | 34.7  | 33.9  | 32.3  | 31.6  | 28.0  | 23.3  | 22.9  |
| 62.5° | 641.0  | 392.8 | 48.5  | 31.6  | 30.3  | 29.1  | 27.2  | 26.4  | 23.3  | 18.6  | 17.3  |
| 65°   | 273.0  | 162.7 | 32.7  | 28.0  | 26.0  | 24.0  | 22.5  | 21.3  | 18.6  | 13.8  | 13.4  |
| 67.5° | 70.9   | 57.9  | 27.2  | 24.4  | 21.7  | 18.9  | 17.7  | 15.7  | 12.6  | 9.5   | 9.1   |
| 70°   | 31.9   | 29.1  | 22.9  | 20.5  | 17.3  | 14.6  | 13.0  | 11.0  | 8.3   | 6.3   | 5.9   |
| 72.5° | 18.9   | 18.6  | 17.3  | 15.3  | 13.0  | 11.0  | 9.5   | 7.5   | 5.5   | 3.5   | 3.5   |
| 75°   | 11.8   | 11.4  | 11.8  | 10.6  | 9.1   | 8.3   | 7.1   | 5.1   | 3.1   | 1.6   | 1.6   |
| 77.5° | 7.1    | 7.1   | 7.1   | 6.7   | 6.3   | 6.3   | 5.1   | 3.1   | 1.6   | 0.4   | 0.4   |
| 80°   | 5.5    | 5.5   | 5.9   | 5.5   | 5.5   | 5.5   | 4.3   | 2.3   | 0.8   | 0.0   | 0.0   |
| 82.5° | 5.5    | 5.9   | 6.7   | 6.3   | 5.5   | 4.7   | 3.9   | 2.3   | 0.8   | 0.0   | 0.0   |
| 85°   | 1.6    | 1.2   | 2.0   | 2.7   | 3.9   | 3.5   | 2.7   | 2.0   | 0.8   | 0.0   | 0.0   |
| 87.5° | 0.8    | 0.8   | 0.8   | 0.8   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 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)