

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: STREETWORKS

Report Number: P649697

Luminaire Tested: **GLAN-SA1A-835-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-835-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2980.1 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

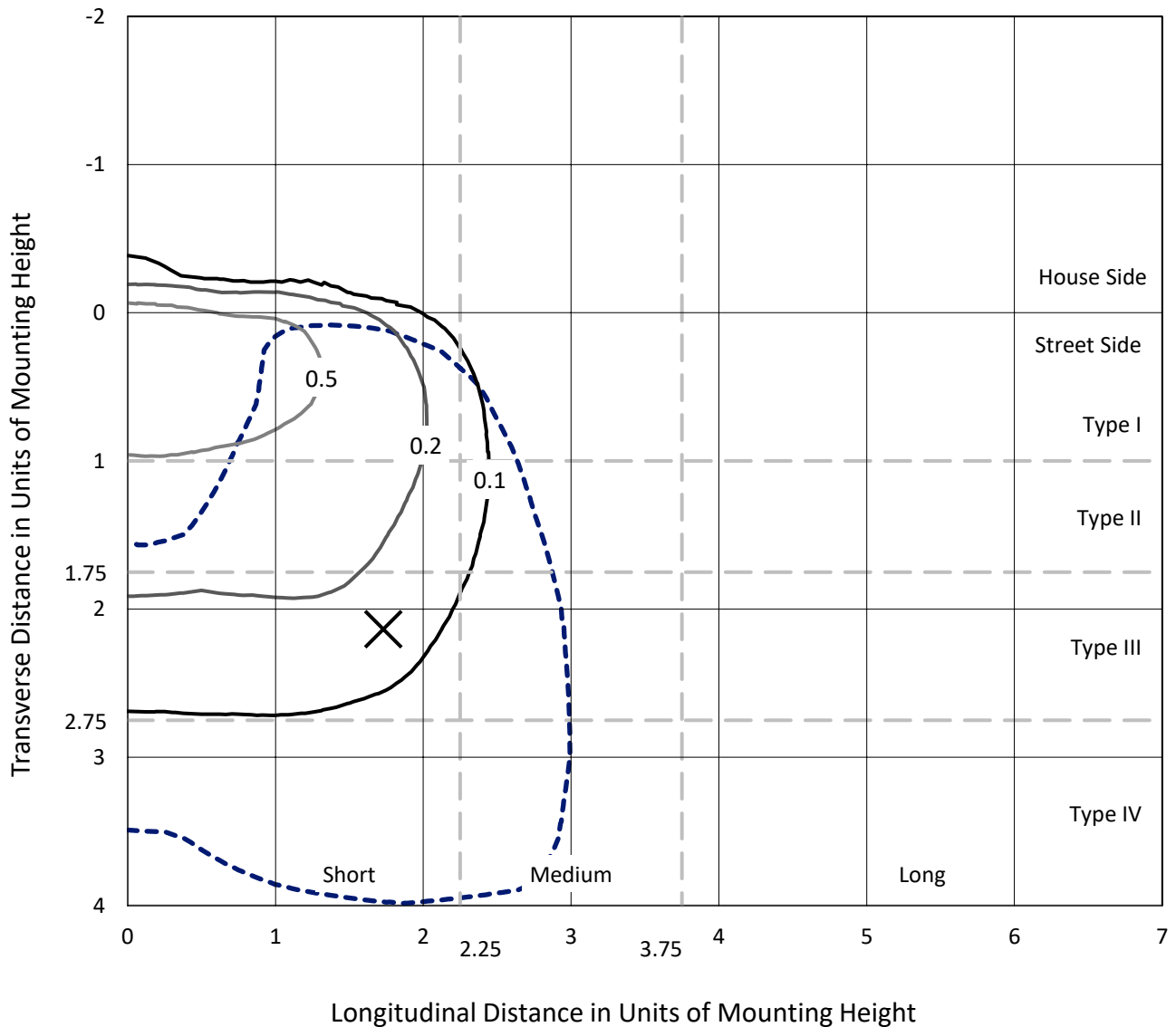
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

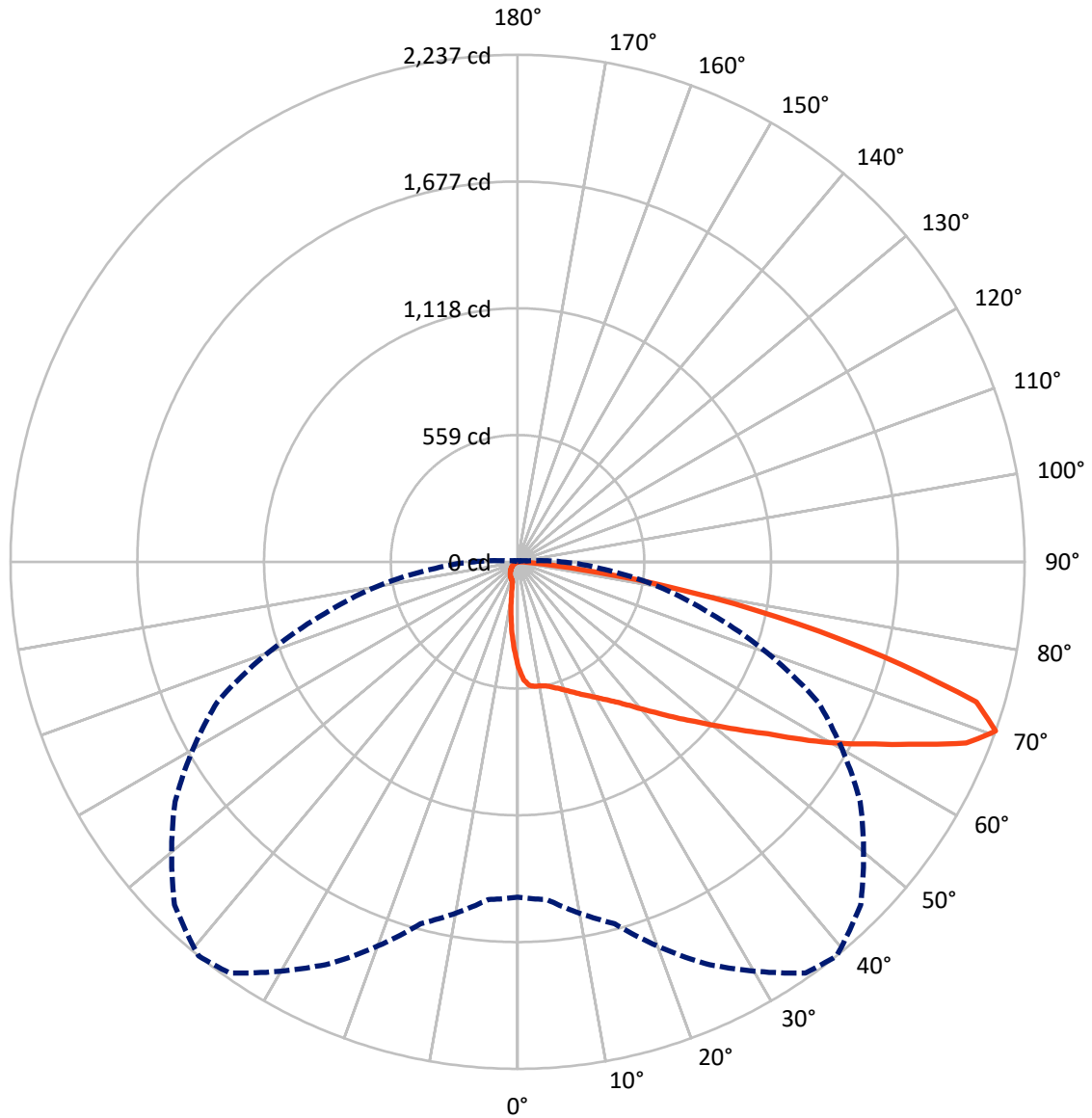
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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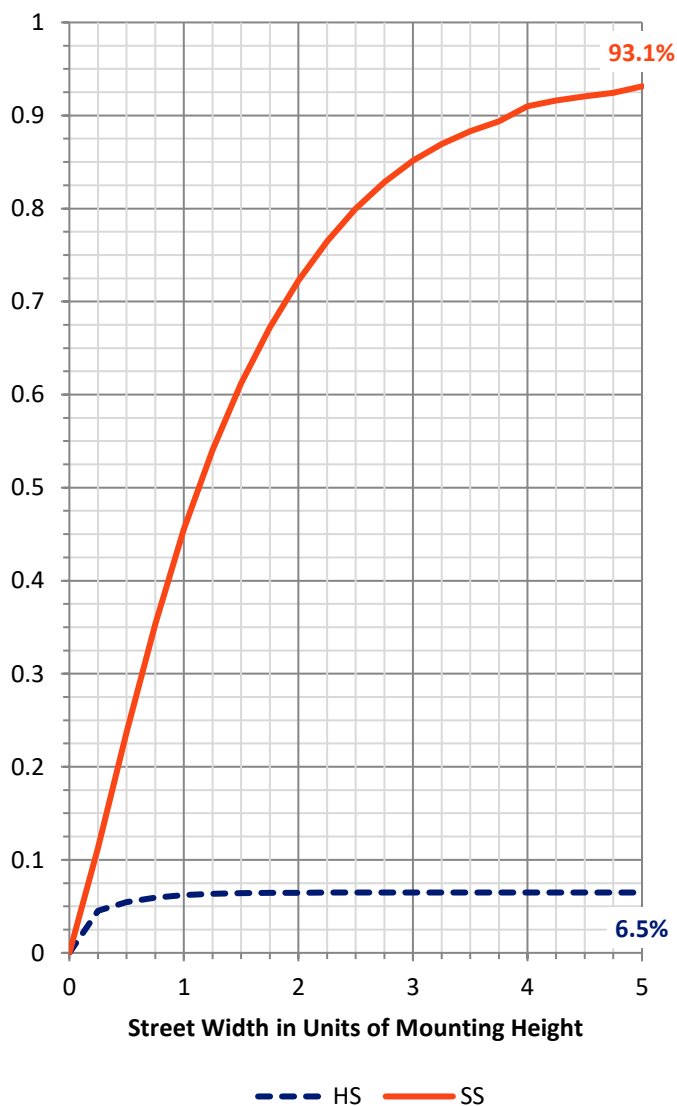
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 194.3    | 0.0    | 194.3  |
|                    | % Fixture | 6.5      | 0.0    | 6.5    |
| <b>Street Side</b> | Lumens    | 2785.8   | 0.0    | 2785.8 |
|                    | % Fixture | 93.5     | 0.0    | 93.5   |
| <b>Total</b>       | Lumens    | 2980.1   | 0.0    | 2980.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.7   | 1.3       |
| 10°-20°   | 103.1  | 3.5       |
| 20°-30°   | 172.7  | 5.8       |
| 30°-40°   | 267.8  | 9.0       |
| 40°-50°   | 424.4  | 14.2      |
| 50°-60°   | 622.0  | 20.9      |
| 60°-70°   | 797.3  | 26.8      |
| 70°-80°   | 501.0  | 16.8      |
| 80°-90°   | 52.2   | 1.8       |
| 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°    | 2980.1 | 100.0     |
| 0°-180°   | 2980.1 | 100.0     |

**Coefficient of Utilization**



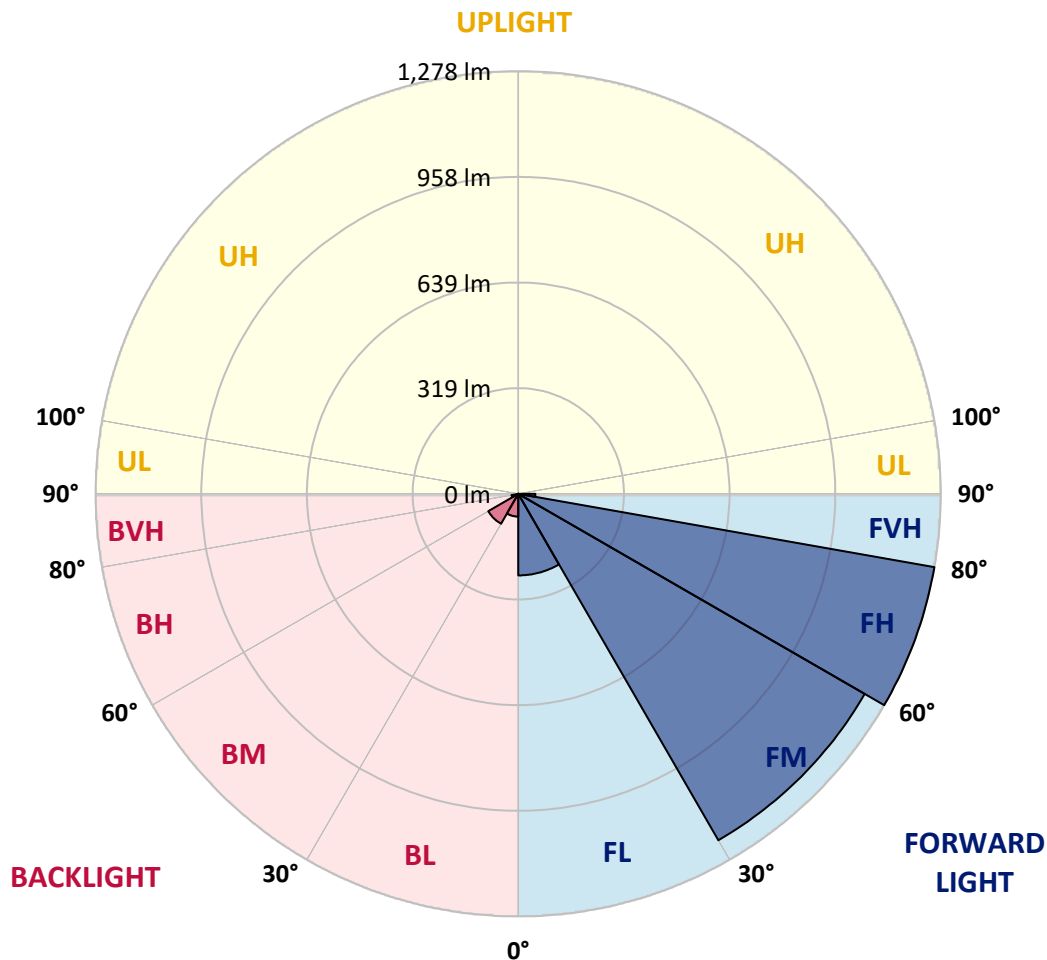
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 246.6  | 8.3       |                         |      |         |
| FM (30°-60°)   | 1209.6 | 40.6      |                         |      |         |
| FH (60°-80°)   | 1277.8 | 42.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 51.8   | 1.7       |                         |      | G1/100  |
| BL (0°-30°)    | 68.8   | 2.3       | B0/110                  |      |         |
| BM (30°-60°)   | 104.6  | 3.5       | B0/220                  |      |         |
| BH (60°-80°)   | 20.5   | 0.7       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  | 465.0  |
| 2.5°  | 537.3  | 535.5  | 533.1  | 530.2  | 522.3  | 520.9  | 516.1  | 505.8  | 493.6  | 483.7  | 469.8  |
| 5°    | 562.7  | 563.8  | 562.0  | 556.9  | 551.1  | 547.7  | 541.7  | 525.9  | 510.0  | 489.8  | 467.2  |
| 7.5°  | 568.5  | 570.6  | 568.3  | 563.5  | 557.9  | 554.3  | 549.5  | 535.9  | 517.5  | 494.5  | 463.4  |
| 10°   | 567.9  | 570.3  | 568.9  | 564.5  | 559.9  | 556.5  | 551.3  | 540.5  | 525.7  | 501.4  | 464.6  |
| 12.5° | 566.9  | 570.1  | 569.9  | 567.8  | 563.9  | 561.3  | 558.1  | 548.5  | 534.7  | 511.7  | 471.2  |
| 15°   | 564.2  | 568.1  | 571.7  | 573.5  | 573.7  | 573.7  | 569.7  | 559.5  | 546.3  | 525.1  | 479.8  |
| 17.5° | 565.3  | 569.9  | 579.0  | 584.1  | 587.7  | 587.3  | 583.2  | 572.1  | 557.5  | 538.9  | 488.8  |
| 20°   | 572.8  | 579.0  | 591.6  | 602.0  | 605.6  | 604.4  | 598.8  | 585.9  | 569.3  | 550.7  | 497.7  |
| 22.5° | 590.9  | 596.6  | 612.4  | 624.6  | 627.2  | 624.0  | 616.0  | 598.6  | 583.6  | 563.5  | 508.2  |
| 25°   | 618.2  | 624.8  | 639.4  | 648.6  | 648.6  | 646.8  | 635.6  | 615.2  | 599.5  | 581.4  | 522.1  |
| 27.5° | 651.2  | 656.9  | 671.3  | 679.5  | 674.6  | 669.5  | 658.3  | 633.6  | 618.6  | 603.8  | 538.7  |
| 30°   | 684.7  | 688.3  | 703.5  | 707.1  | 702.1  | 695.5  | 683.5  | 658.8  | 645.7  | 634.2  | 562.7  |
| 32.5° | 716.3  | 724.1  | 736.7  | 735.9  | 729.1  | 725.9  | 715.0  | 688.6  | 681.3  | 680.0  | 596.3  |
| 35°   | 748.0  | 754.0  | 765.1  | 768.0  | 762.0  | 761.4  | 753.4  | 733.9  | 734.1  | 742.0  | 648.9  |
| 37.5° | 775.2  | 780.6  | 793.8  | 800.0  | 801.2  | 804.2  | 801.0  | 788.2  | 806.4  | 827.9  | 718.3  |
| 40°   | 798.0  | 805.6  | 822.5  | 833.3  | 845.7  | 856.7  | 857.3  | 860.1  | 896.8  | 933.6  | 809.1  |
| 42.5° | 815.9  | 826.5  | 850.9  | 870.9  | 899.4  | 913.4  | 924.6  | 940.0  | 1001.7 | 1056.7 | 916.0  |
| 45°   | 839.1  | 851.3  | 881.7  | 913.1  | 957.6  | 980.6  | 996.3  | 1037.6 | 1125.0 | 1200.1 | 1025.7 |
| 47.5° | 877.5  | 883.9  | 915.0  | 960.8  | 1019.3 | 1052.1 | 1082.6 | 1145.1 | 1257.4 | 1324.7 | 1117.0 |
| 50°   | 927.0  | 931.2  | 954.6  | 1018.3 | 1094.0 | 1137.2 | 1192.7 | 1266.2 | 1394.8 | 1428.0 | 1168.7 |
| 52.5° | 981.6  | 983.1  | 1000.7 | 1081.6 | 1177.7 | 1232.2 | 1294.3 | 1385.0 | 1506.7 | 1501.7 | 1202.9 |
| 55°   | 1045.1 | 1043.1 | 1058.1 | 1150.3 | 1276.8 | 1339.1 | 1411.4 | 1506.6 | 1603.9 | 1554.0 | 1222.6 |
| 57.5° | 1117.8 | 1112.4 | 1127.1 | 1241.4 | 1403.8 | 1478.3 | 1551.8 | 1611.5 | 1679.1 | 1597.9 | 1232.0 |
| 60°   | 1193.9 | 1183.1 | 1200.6 | 1343.7 | 1553.4 | 1624.1 | 1685.2 | 1701.2 | 1758.5 | 1632.7 | 1215.8 |
| 62.5° | 1254.6 | 1254.8 | 1287.3 | 1452.7 | 1707.2 | 1769.1 | 1801.5 | 1815.9 | 1826.7 | 1625.1 | 1130.4 |
| 65°   | 1349.3 | 1352.6 | 1404.4 | 1603.9 | 1885.2 | 1938.9 | 1961.1 | 1914.3 | 1829.7 | 1530.5 | 1002.3 |
| 67.5° | 1447.1 | 1457.2 | 1552.2 | 1812.1 | 2090.9 | 2134.1 | 2105.5 | 1933.3 | 1748.0 | 1314.9 | 760.0  |
| 70°   | 1478.9 | 1495.7 | 1652.1 | 1955.5 | 2214.2 | 2236.6 | 2139.8 | 1844.6 | 1461.3 | 879.2  | 382.5  |
| 72.5° | 1355.1 | 1382.4 | 1594.7 | 1903.2 | 2135.6 | 2116.1 | 1914.4 | 1547.0 | 929.0  | 333.8  | 116.7  |
| 75°   | 955.7  | 967.6  | 1325.3 | 1578.8 | 1717.6 | 1662.5 | 1456.3 | 997.3  | 382.1  | 93.7   | 40.1   |
| 77.5° | 493.4  | 487.7  | 788.2  | 1047.6 | 1225.0 | 1167.9 | 953.6  | 516.2  | 144.8  | 39.1   | 24.8   |
| 80°   | 255.1  | 259.3  | 341.1  | 548.9  | 747.8  | 688.1  | 508.5  | 239.3  | 77.1   | 21.6   | 19.0   |
| 82.5° | 143.0  | 134.2  | 196.1  | 239.7  | 349.7  | 274.1  | 195.0  | 169.4  | 33.7   | 13.0   | 18.0   |
| 85°   | 26.0   | 27.2   | 107.5  | 129.6  | 121.4  | 77.1   | 62.9   | 113.1  | 9.8    | 7.2    | 12.6   |
| 87.5° | 0.4    | 0.4    | 20.8   | 37.3   | 23.6   | 10.8   | 19.8   | 16.2   | 2.0    | 2.8    | 2.2    |
| 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°    | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 | 465.0 |
| 2.5°  | 462.8 | 455.2 | 441.0 | 427.0 | 409.1 | 394.5 | 384.7 | 374.5 | 364.1 | 364.9 | 367.3 |
| 5°    | 454.8 | 441.5 | 413.5 | 383.9 | 355.5 | 329.8 | 304.6 | 282.0 | 272.7 | 264.3 | 264.7 |
| 7.5°  | 446.8 | 428.1 | 387.1 | 340.6 | 297.6 | 253.9 | 222.3 | 196.2 | 182.4 | 172.0 | 169.0 |
| 10°   | 443.2 | 418.5 | 362.8 | 298.9 | 237.9 | 190.3 | 149.6 | 128.3 | 112.0 | 106.7 | 108.1 |
| 12.5° | 444.7 | 413.7 | 341.1 | 261.4 | 188.6 | 132.6 | 104.1 | 93.3  | 89.7  | 89.1  | 88.7  |
| 15°   | 447.8 | 410.3 | 319.6 | 219.7 | 138.6 | 98.5  | 87.5  | 85.5  | 85.1  | 84.7  | 84.9  |
| 17.5° | 451.8 | 407.3 | 296.8 | 180.6 | 106.3 | 86.1  | 82.9  | 81.9  | 81.7  | 81.7  | 81.7  |
| 20°   | 455.8 | 403.9 | 271.4 | 145.8 | 88.7  | 81.3  | 79.3  | 78.7  | 78.5  | 78.5  | 78.3  |
| 22.5° | 460.4 | 400.9 | 245.5 | 114.6 | 81.7  | 77.9  | 76.1  | 75.7  | 75.5  | 75.3  | 75.3  |
| 25°   | 467.0 | 397.1 | 218.1 | 93.7  | 77.3  | 74.7  | 72.9  | 72.5  | 72.3  | 71.5  | 71.7  |
| 27.5° | 475.8 | 394.3 | 189.9 | 80.9  | 73.3  | 70.7  | 69.5  | 68.9  | 68.5  | 67.9  | 68.1  |
| 30°   | 487.8 | 391.9 | 159.8 | 73.9  | 68.7  | 66.5  | 65.3  | 64.9  | 64.5  | 63.9  | 63.9  |
| 32.5° | 508.6 | 392.9 | 128.2 | 68.3  | 64.5  | 61.9  | 60.7  | 60.3  | 59.9  | 59.3  | 59.3  |
| 35°   | 539.9 | 398.7 | 102.5 | 63.5  | 59.5  | 56.8  | 55.7  | 55.7  | 55.0  | 54.3  | 54.1  |
| 37.5° | 590.9 | 413.5 | 82.3  | 58.9  | 54.7  | 52.3  | 50.9  | 50.5  | 49.9  | 48.6  | 48.5  |
| 40°   | 651.2 | 436.5 | 69.3  | 54.3  | 50.3  | 47.8  | 46.7  | 45.5  | 43.8  | 42.7  | 42.4  |
| 42.5° | 726.9 | 460.2 | 60.1  | 49.6  | 46.0  | 43.8  | 42.4  | 40.5  | 38.1  | 36.4  | 36.3  |
| 45°   | 805.9 | 481.9 | 53.9  | 45.5  | 42.0  | 40.2  | 38.7  | 35.5  | 32.4  | 30.5  | 30.2  |
| 47.5° | 864.7 | 485.9 | 48.9  | 41.4  | 38.7  | 36.9  | 34.6  | 30.6  | 26.6  | 24.8  | 24.2  |
| 50°   | 892.5 | 466.4 | 43.7  | 37.4  | 35.2  | 33.3  | 30.5  | 25.8  | 21.5  | 19.3  | 18.8  |
| 52.5° | 902.3 | 432.8 | 39.5  | 33.8  | 31.9  | 29.4  | 26.0  | 20.8  | 16.8  | 14.6  | 14.4  |
| 55°   | 898.3 | 390.3 | 35.6  | 30.5  | 27.9  | 25.1  | 21.6  | 16.6  | 12.4  | 10.6  | 10.2  |
| 57.5° | 877.4 | 336.2 | 31.9  | 27.0  | 23.8  | 21.1  | 17.2  | 12.4  | 8.4   | 6.8   | 6.6   |
| 60°   | 820.7 | 262.5 | 28.0  | 23.3  | 20.2  | 17.2  | 13.6  | 8.8   | 5.2   | 3.8   | 3.8   |
| 62.5° | 724.9 | 194.9 | 24.4  | 19.4  | 17.0  | 13.8  | 9.6   | 5.6   | 2.8   | 2.0   | 1.8   |
| 65°   | 605.8 | 143.8 | 20.4  | 16.4  | 14.3  | 10.8  | 6.8   | 3.4   | 1.4   | 0.6   | 0.4   |
| 67.5° | 422.7 | 88.7  | 17.0  | 13.4  | 11.6  | 7.8   | 4.2   | 1.4   | 0.6   | 0.0   | 0.0   |
| 70°   | 192.1 | 42.3  | 13.0  | 10.2  | 8.8   | 5.6   | 2.2   | 0.8   | 0.4   | 0.0   | 0.0   |
| 72.5° | 59.7  | 22.2  | 9.2   | 7.4   | 6.0   | 3.6   | 1.2   | 0.6   | 0.4   | 0.0   | 0.0   |
| 75°   | 27.6  | 14.3  | 5.8   | 4.0   | 3.4   | 1.8   | 0.8   | 0.4   | 0.2   | 0.0   | 0.0   |
| 77.5° | 20.6  | 11.0  | 3.4   | 2.2   | 1.8   | 1.2   | 0.6   | 0.4   | 0.2   | 0.0   | 0.0   |
| 80°   | 18.0  | 5.6   | 2.0   | 1.4   | 1.0   | 0.8   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   |
| 82.5° | 16.2  | 2.8   | 1.2   | 0.8   | 0.6   | 0.4   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   |
| 85°   | 8.8   | 1.6   | 0.8   | 0.6   | 0.4   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.6   | 0.8   | 0.6   | 0.4   | 0.4   | 0.2   | 0.2   | 0.2   | 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   | 0.0   |

(END OF REPORT)