

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: P458567

Luminaire Tested: **GLAN-SA1B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

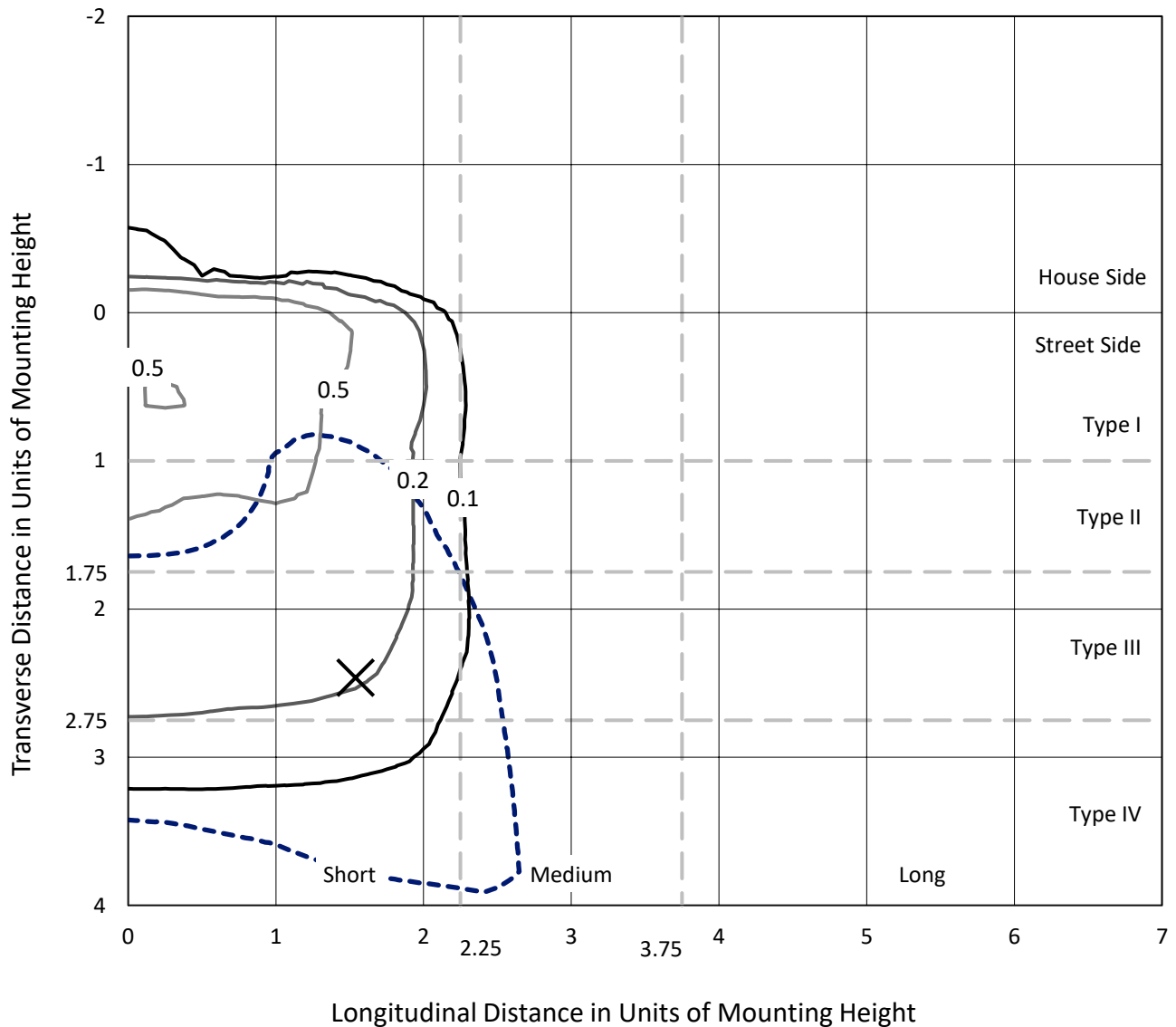
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

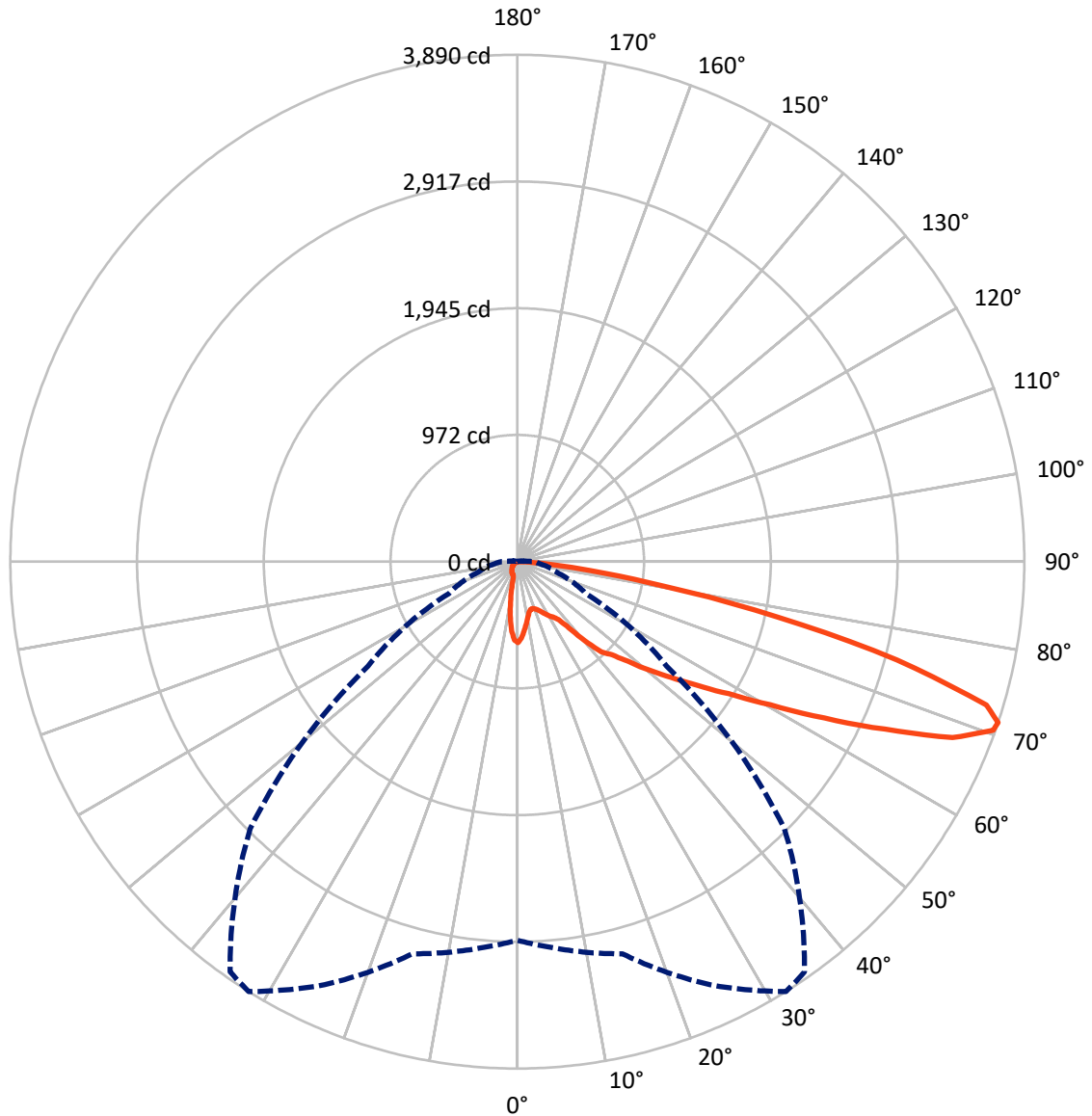
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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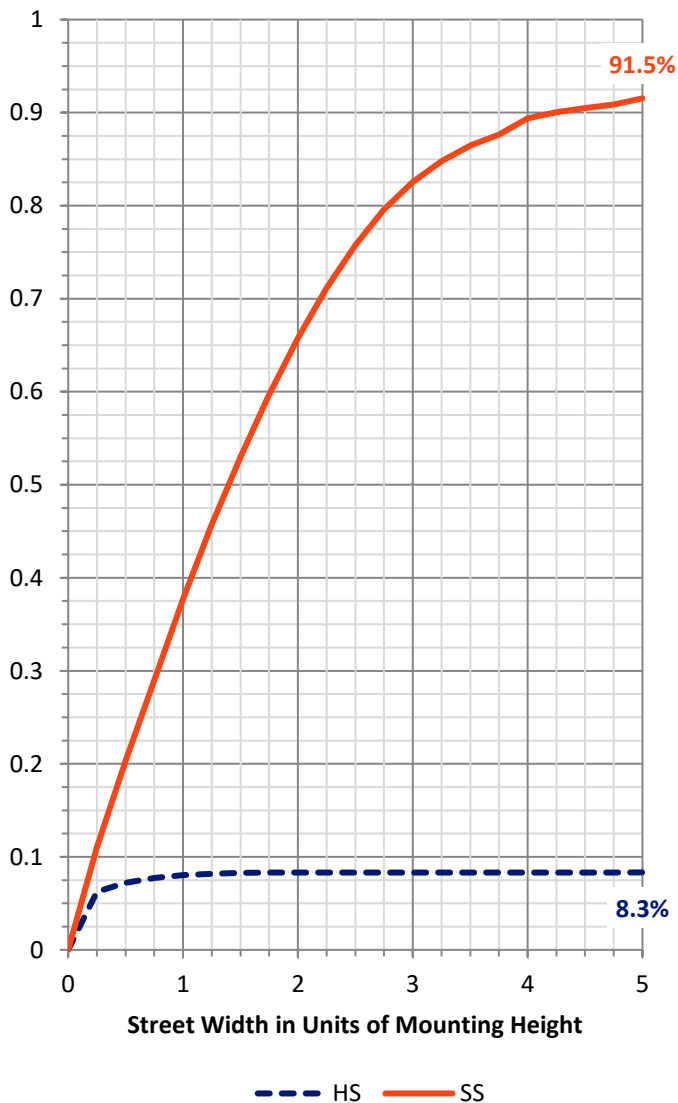
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 323.5    | 0.0    | 323.5  |
|                    | % Fixture | 8.4      | 0.0    | 8.4    |
| <b>Street Side</b> | Lumens    | 3538.5   | 0.0    | 3538.5 |
|                    | % Fixture | 91.6     | 0.0    | 91.6   |
| <b>Total</b>       | Lumens    | 3862.0   | 0.0    | 3862.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 50.5   | 1.3       |
| 10°-20°   | 109.6  | 2.8       |
| 20°-30°   | 170.5  | 4.4       |
| 30°-40°   | 284.1  | 7.4       |
| 40°-50°   | 528.4  | 13.7      |
| 50°-60°   | 848.4  | 22.0      |
| 60°-70°   | 1141.1 | 29.5      |
| 70°-80°   | 677.1  | 17.5      |
| 80°-90°   | 52.3   | 1.4       |
| 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°    | 3862.0 | 100.0     |
| 0°-180°   | 3862.0 | 100.0     |



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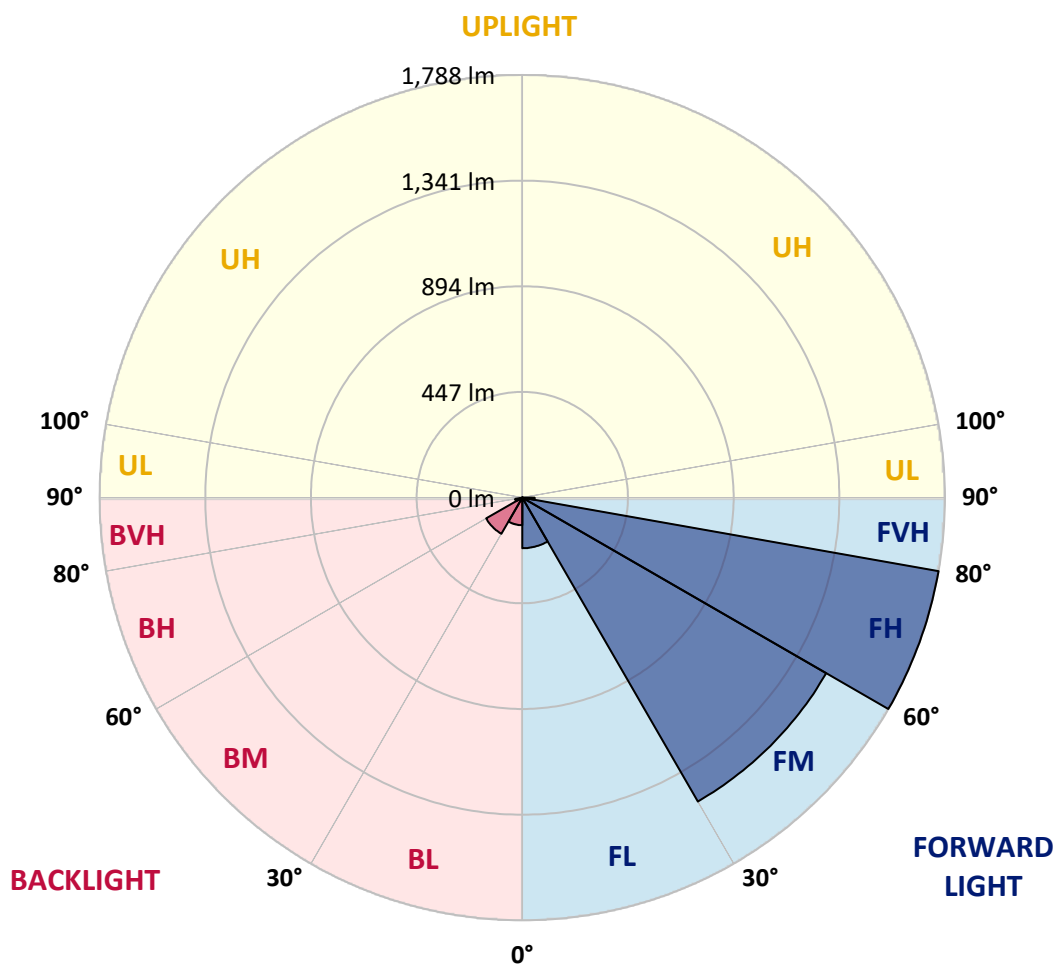
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 214.1  | 5.5       |                         |      |         |
| FM (30°-60°)   | 1484.4 | 38.4      |                         |      |         |
| FH (60°-80°)   | 1787.9 | 46.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 52.1   | 1.3       |                         |      | G1/100  |
| BL (0°-30°)    | 116.6  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 176.5  | 4.6       | B0/220                  |      |         |
| BH (60°-80°)   | 30.3   | 0.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.2    | 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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 32°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  | 621.1  |
| 2.5°  | 576.0  | 581.9  | 581.0  | 583.1  | 588.2  | 590.2  | 595.9  | 602.1  | 610.7  | 616.6  | 620.5  |
| 5°    | 515.8  | 520.3  | 520.9  | 531.2  | 536.3  | 541.9  | 558.5  | 576.6  | 596.8  | 612.8  | 623.4  |
| 7.5°  | 451.5  | 453.9  | 458.6  | 472.3  | 485.0  | 490.6  | 515.8  | 547.3  | 579.0  | 608.9  | 628.2  |
| 10°   | 398.4  | 401.1  | 409.7  | 424.2  | 436.1  | 443.5  | 478.5  | 517.9  | 562.4  | 606.8  | 635.0  |
| 12.5° | 368.2  | 369.7  | 372.9  | 386.0  | 401.1  | 409.1  | 446.8  | 491.8  | 549.0  | 607.7  | 646.6  |
| 15°   | 366.1  | 365.5  | 361.7  | 367.0  | 380.6  | 388.9  | 425.7  | 474.0  | 537.2  | 610.7  | 660.2  |
| 17.5° | 377.1  | 375.6  | 366.4  | 366.4  | 377.7  | 384.5  | 416.8  | 464.5  | 531.2  | 617.5  | 679.5  |
| 20°   | 394.0  | 391.6  | 376.5  | 375.3  | 386.3  | 393.4  | 422.1  | 465.1  | 532.4  | 630.3  | 705.3  |
| 22.5° | 415.3  | 412.7  | 389.8  | 390.4  | 402.3  | 409.4  | 437.6  | 475.8  | 539.8  | 646.0  | 732.8  |
| 25°   | 443.2  | 440.2  | 413.3  | 412.1  | 424.5  | 430.7  | 460.4  | 494.8  | 550.2  | 665.5  | 769.0  |
| 27.5° | 480.3  | 474.0  | 441.7  | 439.9  | 453.3  | 461.3  | 488.0  | 520.3  | 568.6  | 692.5  | 817.6  |
| 30°   | 510.8  | 504.0  | 473.1  | 468.4  | 482.6  | 488.9  | 516.4  | 554.7  | 604.8  | 739.7  | 884.9  |
| 32.5° | 550.8  | 540.7  | 504.6  | 492.1  | 507.2  | 515.2  | 557.6  | 618.7  | 658.4  | 789.5  | 965.0  |
| 35°   | 640.9  | 634.7  | 590.5  | 547.0  | 546.1  | 556.1  | 618.4  | 683.3  | 713.6  | 867.1  | 1074.1 |
| 37.5° | 769.9  | 765.4  | 718.6  | 660.2  | 643.3  | 638.6  | 692.2  | 754.5  | 801.6  | 973.8  | 1200.9 |
| 40°   | 919.6  | 909.2  | 866.2  | 816.7  | 794.8  | 780.9  | 779.4  | 860.3  | 916.6  | 1118.8 | 1333.2 |
| 42.5° | 1026.9 | 1007.9 | 955.8  | 952.2  | 947.5  | 932.9  | 890.8  | 1015.1 | 1065.2 | 1274.7 | 1474.6 |
| 45°   | 1139.6 | 1110.8 | 1033.1 | 1019.8 | 1018.0 | 1017.1 | 1059.2 | 1198.3 | 1227.0 | 1443.7 | 1619.8 |
| 47.5° | 1227.0 | 1204.2 | 1140.5 | 1134.5 | 1141.9 | 1162.1 | 1281.9 | 1392.7 | 1386.8 | 1594.3 | 1741.7 |
| 50°   | 1343.5 | 1326.3 | 1255.5 | 1266.7 | 1305.0 | 1337.9 | 1533.0 | 1604.7 | 1518.1 | 1712.9 | 1830.3 |
| 52.5° | 1481.1 | 1449.4 | 1383.5 | 1414.1 | 1472.8 | 1527.6 | 1799.5 | 1790.3 | 1610.3 | 1802.1 | 1896.4 |
| 55°   | 1600.3 | 1577.7 | 1555.2 | 1586.9 | 1674.7 | 1743.1 | 2040.2 | 1929.3 | 1677.3 | 1873.9 | 1925.5 |
| 57.5° | 1801.8 | 1796.5 | 1773.4 | 1805.7 | 1912.1 | 1983.3 | 2255.7 | 2037.2 | 1720.3 | 1911.2 | 1891.4 |
| 60°   | 2100.1 | 2091.5 | 2048.5 | 2089.7 | 2228.4 | 2340.2 | 2454.3 | 2134.2 | 1730.1 | 1896.7 | 1793.2 |
| 62.5° | 2458.8 | 2429.4 | 2392.7 | 2453.4 | 2643.8 | 2693.0 | 2641.4 | 2191.7 | 1693.6 | 1781.1 | 1556.7 |
| 65°   | 2793.8 | 2763.5 | 2764.4 | 2892.5 | 3099.7 | 3133.2 | 2859.6 | 2183.1 | 1586.9 | 1491.5 | 1148.2 |
| 67.5° | 3050.2 | 3045.2 | 3081.3 | 3331.2 | 3602.2 | 3579.1 | 3054.7 | 2054.4 | 1270.6 | 966.7  | 610.1  |
| 70°   | 3063.3 | 3073.0 | 3176.8 | 3598.6 | 3873.8 | 3837.0 | 3038.1 | 1669.9 | 792.1  | 444.7  | 240.4  |
| 71°   | 2905.5 | 2971.4 | 3114.8 | 3590.3 | 3889.8 | 3842.0 | 2898.1 | 1398.7 | 581.0  | 310.1  | 173.4  |
| 72.5° | 2476.0 | 2510.7 | 2820.8 | 3379.0 | 3763.2 | 3661.2 | 2543.3 | 980.4  | 372.0  | 189.7  | 99.6   |
| 75°   | 1363.7 | 1449.1 | 1889.0 | 2650.9 | 3009.9 | 2920.4 | 1657.5 | 465.7  | 185.6  | 103.8  | 41.2   |
| 77.5° | 649.2  | 632.6  | 921.7  | 1576.5 | 2040.8 | 2036.0 | 835.1  | 206.9  | 108.2  | 70.3   | 20.8   |
| 80°   | 185.6  | 208.7  | 352.8  | 749.4  | 1133.0 | 1145.5 | 320.8  | 99.9   | 75.0   | 54.8   | 10.7   |
| 82.5° | 56.0   | 57.2   | 129.6  | 331.4  | 563.6  | 531.2  | 120.4  | 51.0   | 54.0   | 43.6   | 6.2    |
| 85°   | 9.8    | 12.2   | 38.2   | 116.8  | 214.9  | 163.0  | 30.2   | 24.3   | 35.6   | 28.8   | 3.6    |
| 87.5° | 0.6    | 0.9    | 12.7   | 13.3   | 19.0   | 11.0   | 5.3    | 3.6    | 7.7    | 7.7    | 2.1    |
| 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°    | 621.1  | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 |
| 2.5°  | 623.1  | 624.9 | 623.7 | 621.1 | 616.6 | 611.3 | 604.2 | 598.2 | 593.2 | 590.5 | 593.8 |
| 5°    | 627.0  | 629.4 | 623.4 | 610.1 | 589.9 | 568.0 | 543.1 | 523.8 | 508.7 | 504.0 | 502.2 |
| 7.5°  | 632.9  | 634.4 | 618.4 | 588.8 | 546.1 | 494.2 | 448.8 | 410.6 | 380.9 | 372.0 | 359.0 |
| 10°   | 640.6  | 639.7 | 609.5 | 554.4 | 479.4 | 401.4 | 331.1 | 279.0 | 239.5 | 225.3 | 224.1 |
| 12.5° | 652.5  | 647.8 | 598.2 | 507.5 | 399.9 | 297.9 | 211.1 | 165.1 | 140.2 | 131.9 | 130.1 |
| 15°   | 667.3  | 656.1 | 580.5 | 452.7 | 306.2 | 192.4 | 130.1 | 116.2 | 112.9 | 112.4 | 111.8 |
| 17.5° | 684.8  | 667.0 | 557.0 | 385.4 | 215.2 | 124.8 | 108.8 | 108.5 | 108.8 | 108.2 | 107.9 |
| 20°   | 708.5  | 678.6 | 529.2 | 305.6 | 142.3 | 105.2 | 103.8 | 103.8 | 104.1 | 103.8 | 103.8 |
| 22.5° | 733.7  | 692.2 | 494.8 | 233.3 | 107.3 | 99.9  | 99.6  | 100.2 | 100.8 | 100.5 | 100.5 |
| 25°   | 764.8  | 710.0 | 449.4 | 159.8 | 96.1  | 95.5  | 95.8  | 96.9  | 98.1  | 98.4  | 98.1  |
| 27.5° | 809.9  | 731.9 | 400.8 | 110.0 | 88.0  | 88.6  | 91.6  | 94.6  | 96.3  | 96.6  | 96.6  |
| 30°   | 860.6  | 756.3 | 337.4 | 89.2  | 81.5  | 81.5  | 85.1  | 90.7  | 94.6  | 95.2  | 95.5  |
| 32.5° | 925.8  | 784.4 | 267.1 | 80.3  | 75.3  | 74.7  | 78.0  | 84.8  | 91.9  | 94.0  | 94.0  |
| 35°   | 1006.5 | 817.6 | 198.6 | 74.7  | 70.9  | 69.4  | 71.1  | 76.8  | 86.0  | 91.9  | 92.5  |
| 37.5° | 1101.0 | 849.0 | 145.3 | 69.7  | 66.7  | 64.6  | 65.8  | 70.3  | 77.7  | 86.6  | 88.9  |
| 40°   | 1188.5 | 876.9 | 108.5 | 65.5  | 62.6  | 61.1  | 62.0  | 64.0  | 70.3  | 78.6  | 80.0  |
| 42.5° | 1283.9 | 898.6 | 86.3  | 61.1  | 58.4  | 57.8  | 57.8  | 58.7  | 62.8  | 67.6  | 67.9  |
| 45°   | 1379.1 | 906.3 | 72.3  | 55.7  | 54.0  | 54.5  | 54.3  | 53.7  | 55.4  | 54.8  | 54.8  |
| 47.5° | 1447.0 | 897.1 | 59.9  | 50.7  | 50.7  | 51.6  | 50.1  | 48.0  | 47.1  | 43.6  | 43.9  |
| 50°   | 1493.5 | 863.6 | 49.2  | 44.8  | 47.1  | 48.3  | 45.4  | 42.1  | 38.8  | 35.0  | 34.1  |
| 52.5° | 1512.8 | 804.0 | 40.3  | 37.1  | 41.8  | 43.3  | 39.7  | 35.9  | 30.8  | 27.6  | 26.7  |
| 55°   | 1500.4 | 730.5 | 33.5  | 30.2  | 35.3  | 37.1  | 33.5  | 29.1  | 23.4  | 19.9  | 19.3  |
| 57.5° | 1445.5 | 642.7 | 28.5  | 24.0  | 28.2  | 29.3  | 27.0  | 22.2  | 16.6  | 13.0  | 13.0  |
| 60°   | 1350.6 | 552.0 | 23.1  | 19.0  | 21.0  | 22.8  | 20.5  | 16.0  | 11.3  | 8.0   | 7.4   |
| 62.5° | 1158.2 | 448.2 | 18.7  | 14.8  | 14.8  | 16.3  | 14.2  | 11.6  | 7.1   | 4.2   | 3.9   |
| 65°   | 836.3  | 307.4 | 14.8  | 11.0  | 10.7  | 10.7  | 8.9   | 7.7   | 4.2   | 1.8   | 1.2   |
| 67.5° | 454.5  | 173.4 | 11.9  | 8.3   | 7.4   | 7.1   | 5.6   | 4.4   | 1.8   | 0.3   | 0.0   |
| 70°   | 178.8  | 66.7  | 9.2   | 5.6   | 4.7   | 4.4   | 3.0   | 2.1   | 1.2   | 0.0   | 0.0   |
| 71°   | 121.2  | 46.0  | 8.0   | 4.7   | 3.9   | 3.3   | 2.4   | 1.8   | 0.9   | 0.0   | 0.0   |
| 72.5° | 69.4   | 28.5  | 6.2   | 3.6   | 3.0   | 2.4   | 1.8   | 1.2   | 0.9   | 0.0   | 0.0   |
| 75°   | 30.2   | 14.5  | 3.9   | 2.7   | 2.1   | 1.5   | 1.2   | 0.9   | 0.3   | 0.0   | 0.0   |
| 77.5° | 15.4   | 8.0   | 2.7   | 2.1   | 1.2   | 0.9   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   |
| 80°   | 8.6    | 4.2   | 1.8   | 1.2   | 0.9   | 0.6   | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 4.7    | 2.4   | 0.9   | 0.6   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.0    | 1.5   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.5    | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   | 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)