

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: P653778

Luminaire Tested: **GLAN-SA3A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6772.6 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

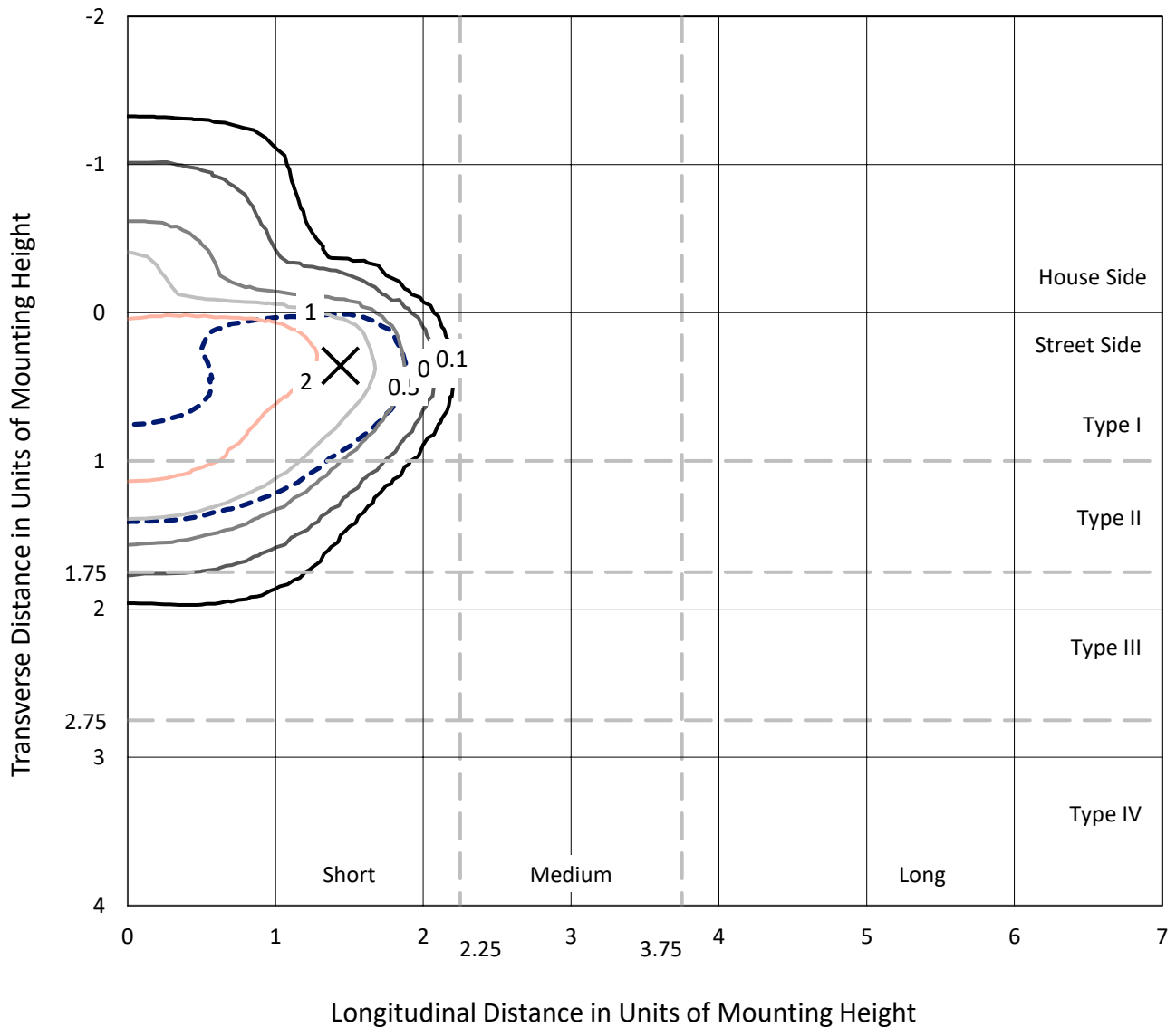
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

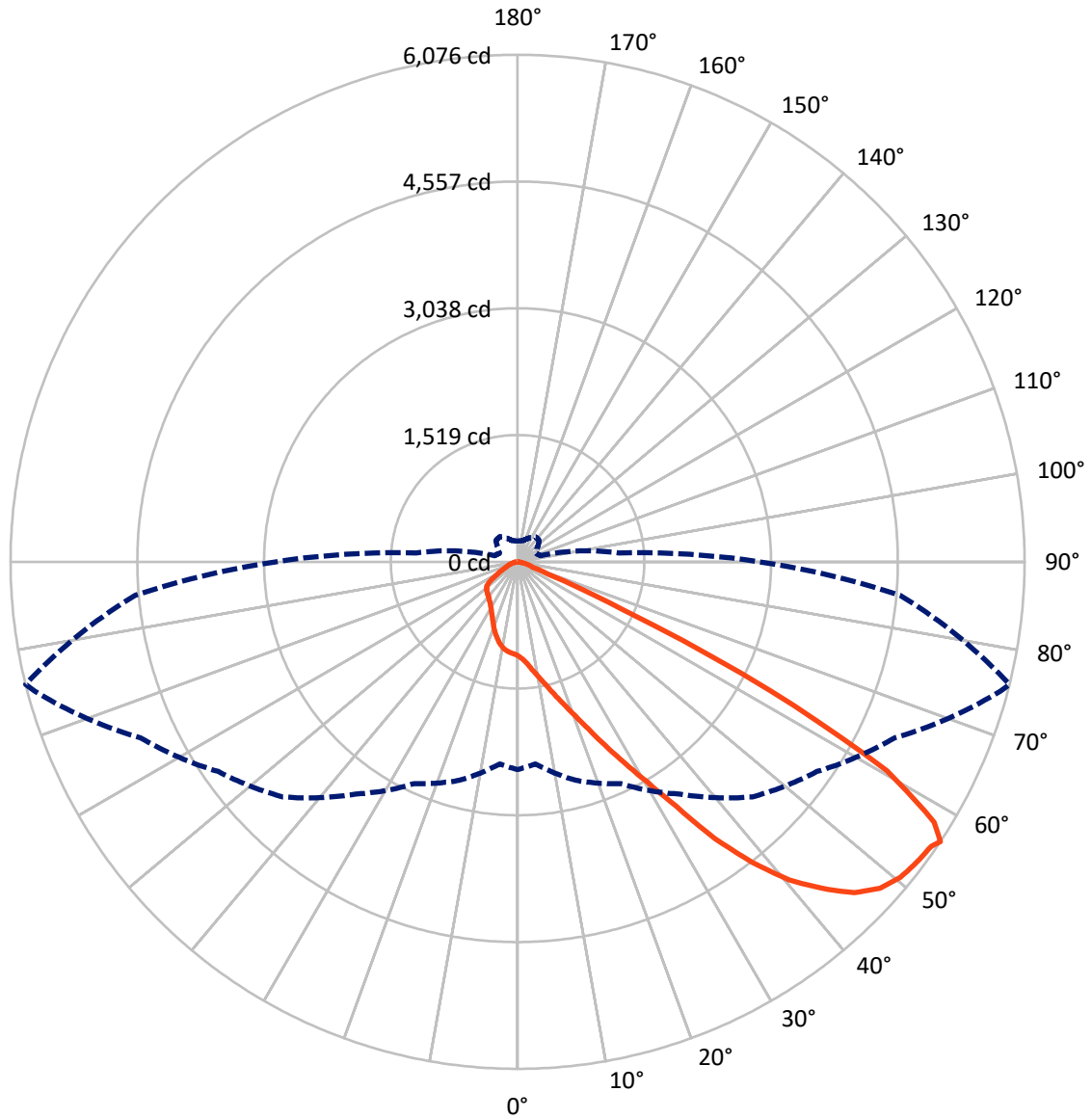
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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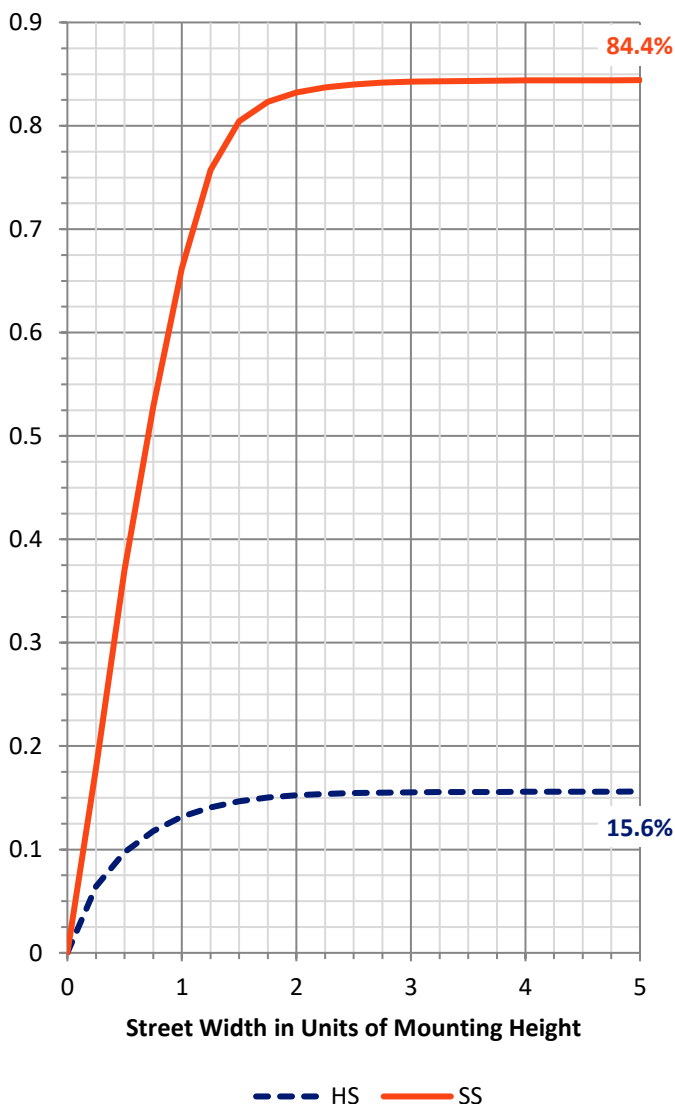
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1063.9   | 0.0    | 1063.9 |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 5708.6   | 0.0    | 5708.6 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 6772.6   | 0.0    | 6772.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.6  | 1.7       |
| 10°-20°   | 364.8  | 5.4       |
| 20°-30°   | 661.5  | 9.8       |
| 30°-40°   | 1140.8 | 16.8      |
| 40°-50°   | 1853.3 | 27.4      |
| 50°-60°   | 1953.5 | 28.8      |
| 60°-70°   | 596.9  | 8.8       |
| 70°-80°   | 76.5   | 1.1       |
| 80°-90°   | 11.6   | 0.2       |
| 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°    | 6772.6 | 100.0     |
| 0°-180°   | 6772.6 | 100.0     |

**Coefficient of Utilization**



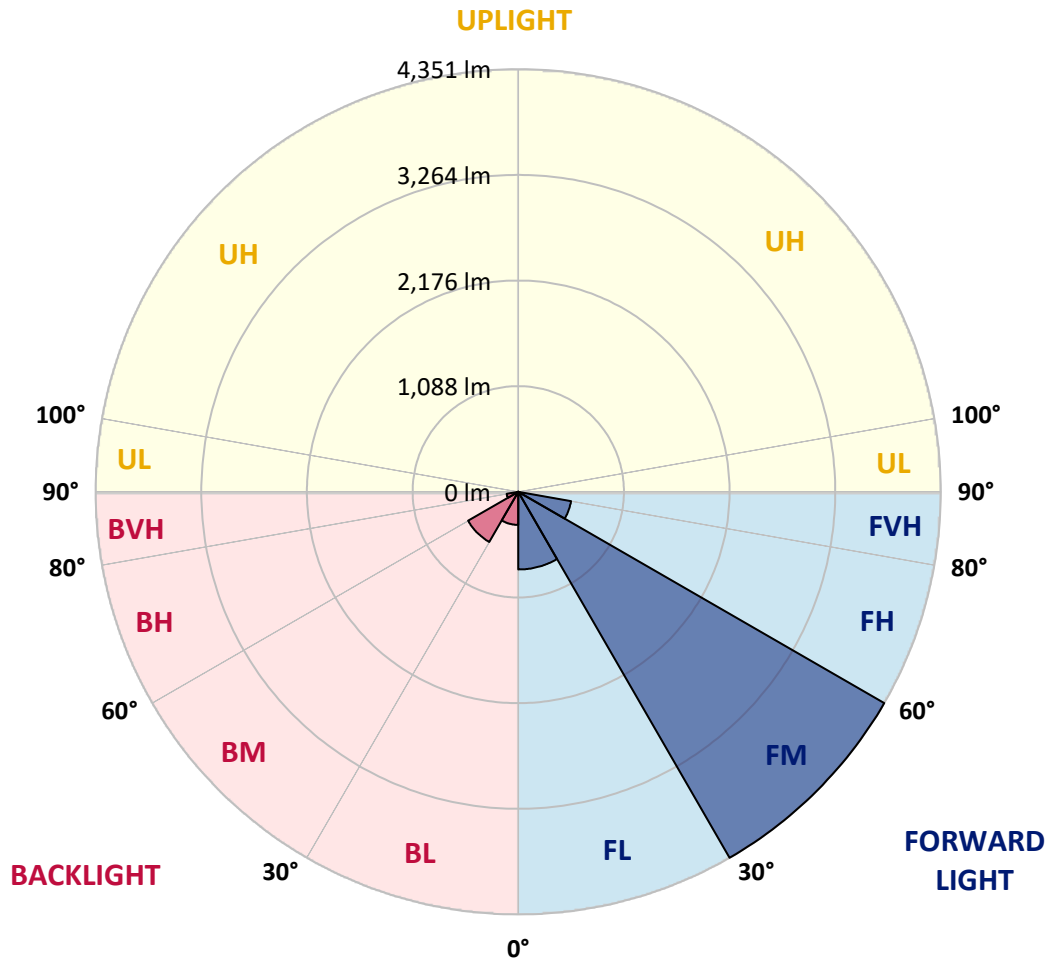
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 799.6  | 11.8      |                         |      |        |
| FM (30°-60°)   | 4351.4 | 64.2      |                         |      |        |
| FH (60°-80°)   | 552.0  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 5.7    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 340.4  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 596.3  | 8.8       | B1/1000                 |      |        |
| BH (60°-80°)   | 121.4  | 1.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 5.9    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 |
| 2.5°  | 1298.3 | 1268.4 | 1269.7 | 1267.1 | 1263.4 | 1249.6 | 1208.4 | 1202.2 | 1174.7 | 1167.2 | 1142.2 |
| 5°    | 1454.4 | 1428.2 | 1443.2 | 1420.7 | 1399.4 | 1387.0 | 1319.5 | 1288.3 | 1244.7 | 1228.4 | 1193.5 |
| 7.5°  | 1551.7 | 1539.3 | 1534.3 | 1535.5 | 1515.6 | 1484.4 | 1454.4 | 1385.7 | 1327.0 | 1314.6 | 1240.9 |
| 10°   | 1599.2 | 1591.7 | 1599.2 | 1595.5 | 1604.2 | 1607.9 | 1555.5 | 1514.3 | 1428.2 | 1406.9 | 1292.1 |
| 12.5° | 1610.4 | 1625.4 | 1631.6 | 1647.9 | 1669.1 | 1705.3 | 1701.6 | 1645.4 | 1530.5 | 1516.8 | 1370.7 |
| 15°   | 1637.9 | 1650.4 | 1644.2 | 1670.4 | 1710.3 | 1771.5 | 1803.9 | 1795.2 | 1671.6 | 1646.7 | 1461.9 |
| 17.5° | 1662.9 | 1640.4 | 1661.6 | 1714.0 | 1754.0 | 1847.6 | 1926.3 | 1962.5 | 1825.1 | 1796.5 | 1545.5 |
| 20°   | 1696.5 | 1690.3 | 1686.6 | 1712.8 | 1783.9 | 1908.8 | 2064.8 | 2131.0 | 1997.5 | 1967.5 | 1665.3 |
| 22.5° | 1799.0 | 1800.2 | 1797.7 | 1759.0 | 1810.2 | 1951.3 | 2185.9 | 2349.5 | 2203.4 | 2178.4 | 1801.4 |
| 25°   | 1933.8 | 1917.6 | 1905.0 | 1873.8 | 1867.6 | 1990.0 | 2308.3 | 2616.7 | 2450.6 | 2433.1 | 1948.8 |
| 27.5° | 2076.1 | 2076.1 | 2038.7 | 2009.9 | 1970.0 | 2086.1 | 2420.7 | 2876.3 | 2749.0 | 2725.3 | 2077.4 |
| 30°   | 2230.9 | 2239.7 | 2234.6 | 2173.5 | 2148.5 | 2191.0 | 2535.5 | 3208.4 | 3091.0 | 3061.1 | 2289.5 |
| 32.5° | 2459.3 | 2440.6 | 2461.9 | 2410.6 | 2337.0 | 2374.5 | 2716.5 | 3505.5 | 3535.5 | 3493.0 | 2568.0 |
| 35°   | 2761.4 | 2750.2 | 2736.5 | 2652.9 | 2565.5 | 2595.4 | 2972.4 | 3871.3 | 4093.5 | 4072.3 | 2848.9 |
| 37.5° | 3032.4 | 3026.1 | 3014.9 | 2957.5 | 2856.4 | 2892.5 | 3263.3 | 4252.0 | 4637.8 | 4567.9 | 3245.8 |
| 40°   | 3317.0 | 3350.7 | 3314.5 | 3263.3 | 3170.9 | 3250.8 | 3605.4 | 4478.0 | 5096.0 | 5011.1 | 3549.2 |
| 42.5° | 3702.8 | 3676.5 | 3692.7 | 3599.1 | 3549.2 | 3636.6 | 3948.7 | 4704.0 | 5451.8 | 5350.6 | 3871.3 |
| 45°   | 4113.5 | 4114.8 | 4071.0 | 4041.1 | 3911.2 | 4006.1 | 4159.7 | 4828.8 | 5735.1 | 5656.5 | 4114.8 |
| 47.5° | 4376.9 | 4375.6 | 4423.1 | 4470.5 | 4337.0 | 4243.3 | 4303.2 | 4947.4 | 5881.2 | 5845.0 | 4203.4 |
| 50°   | 4335.7 | 4348.1 | 4409.4 | 4586.6 | 4656.5 | 4530.5 | 4438.0 | 4912.4 | 5947.4 | 5943.6 | 4279.5 |
| 52.5° | 3771.4 | 3812.6 | 3915.0 | 4170.9 | 4523.0 | 4679.0 | 4579.2 | 4977.4 | 5979.8 | 5986.1 | 4393.1 |
| 55°   | 2871.3 | 2893.8 | 3088.6 | 3399.4 | 3788.9 | 4323.2 | 4523.0 | 5028.6 | 6004.8 | 6016.0 | 4530.5 |
| 56°   | 2490.5 | 2430.7 | 2711.6 | 2932.5 | 3398.1 | 3982.4 | 4380.6 | 4988.6 | 5989.9 | 6076.0 | 4599.1 |
| 57.5° | 1880.1 | 1840.1 | 2067.3 | 2343.3 | 2791.4 | 3408.2 | 3938.7 | 4800.1 | 5888.7 | 5887.4 | 4500.4 |
| 60°   | 1143.5 | 1103.6 | 1278.3 | 1440.6 | 1691.6 | 2098.5 | 2661.6 | 3822.6 | 4978.6 | 5083.5 | 3644.1 |
| 62.5° | 680.4  | 705.3  | 877.6  | 976.2  | 1057.4 | 1099.9 | 1377.0 | 2272.0 | 3322.0 | 3396.9 | 2260.9 |
| 65°   | 453.1  | 461.9  | 591.7  | 754.0  | 790.2  | 629.2  | 560.5  | 920.1  | 1440.6 | 1394.5 | 932.6  |
| 67.5° | 279.6  | 299.6  | 397.0  | 566.7  | 628.0  | 459.4  | 265.9  | 343.3  | 397.0  | 397.0  | 269.6  |
| 70°   | 169.8  | 179.8  | 264.7  | 385.8  | 430.7  | 295.9  | 193.5  | 193.5  | 191.0  | 187.3  | 161.1  |
| 72.5° | 81.2   | 87.4   | 134.8  | 198.5  | 202.3  | 156.1  | 149.8  | 163.6  | 159.8  | 158.5  | 133.6  |
| 75°   | 35.0   | 37.4   | 47.4   | 62.4   | 71.1   | 66.2   | 91.2   | 117.3  | 121.1  | 117.3  | 96.1   |
| 77.5° | 11.3   | 12.4   | 17.5   | 22.5   | 23.7   | 28.7   | 38.7   | 48.7   | 56.2   | 52.4   | 47.4   |
| 80°   | 1.3    | 2.5    | 5.0    | 11.3   | 17.5   | 22.5   | 28.7   | 32.5   | 36.2   | 36.2   | 33.7   |
| 82.5° | 1.3    | 1.3    | 5.0    | 10.0   | 16.2   | 21.2   | 27.5   | 31.2   | 36.2   | 37.4   | 35.0   |
| 85°   | 0.0    | 1.3    | 3.8    | 8.7    | 13.7   | 13.7   | 12.4   | 12.4   | 8.7    | 8.7    | 8.7    |
| 87.5° | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 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°    | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 | 1127.3 |
| 2.5°  | 1137.3 | 1134.8 | 1101.1 | 1079.8 | 1068.7 | 1046.1 | 1032.4 | 1022.4 | 1014.9 | 1006.2 | 1007.4 |
| 5°    | 1152.3 | 1143.5 | 1087.3 | 1048.6 | 1002.5 | 977.5  | 956.3  | 938.8  | 927.5  | 925.1  | 920.1  |
| 7.5°  | 1194.7 | 1148.6 | 1063.6 | 993.7  | 935.0  | 910.0  | 891.4  | 880.1  | 885.2  | 873.9  | 882.6  |
| 10°   | 1227.2 | 1158.5 | 1034.9 | 933.8  | 875.1  | 856.4  | 846.4  | 855.1  | 867.7  | 862.6  | 856.4  |
| 12.5° | 1267.1 | 1168.5 | 988.8  | 876.4  | 821.5  | 807.7  | 825.2  | 841.4  | 866.4  | 876.4  | 863.9  |
| 15°   | 1312.0 | 1179.8 | 930.1  | 810.2  | 775.2  | 786.5  | 816.4  | 845.2  | 870.1  | 882.6  | 890.1  |
| 17.5° | 1367.0 | 1176.0 | 872.6  | 757.7  | 731.6  | 764.0  | 800.2  | 826.5  | 863.9  | 882.6  | 877.6  |
| 20°   | 1418.2 | 1163.5 | 809.0  | 705.3  | 706.6  | 736.5  | 766.5  | 809.0  | 829.0  | 853.9  | 845.2  |
| 22.5° | 1466.9 | 1141.1 | 742.8  | 669.2  | 669.2  | 715.4  | 730.3  | 757.7  | 775.2  | 787.8  | 786.5  |
| 25°   | 1535.5 | 1098.6 | 687.9  | 634.2  | 649.2  | 679.1  | 691.6  | 700.4  | 692.9  | 702.8  | 704.1  |
| 27.5° | 1584.2 | 1054.9 | 642.9  | 603.0  | 630.4  | 653.0  | 649.2  | 644.2  | 626.7  | 613.0  | 621.7  |
| 30°   | 1636.7 | 1003.7 | 604.3  | 581.7  | 596.8  | 616.7  | 601.7  | 586.8  | 559.3  | 536.8  | 538.1  |
| 32.5° | 1711.5 | 980.0  | 570.5  | 556.8  | 576.8  | 579.3  | 563.0  | 540.6  | 513.1  | 491.9  | 490.6  |
| 35°   | 1851.4 | 965.0  | 541.8  | 540.6  | 544.3  | 545.6  | 529.3  | 501.8  | 490.6  | 473.1  | 479.4  |
| 37.5° | 1991.2 | 957.6  | 521.8  | 516.9  | 515.6  | 516.9  | 498.1  | 471.9  | 493.1  | 491.9  | 494.3  |
| 40°   | 2169.7 | 991.2  | 493.1  | 486.9  | 488.1  | 488.1  | 464.4  | 456.9  | 494.3  | 498.1  | 499.4  |
| 42.5° | 2350.8 | 1033.7 | 474.4  | 454.4  | 459.4  | 459.4  | 446.9  | 438.2  | 464.4  | 439.4  | 435.7  |
| 45°   | 2508.0 | 1096.1 | 454.4  | 421.9  | 434.5  | 440.7  | 436.9  | 421.9  | 405.7  | 363.3  | 363.3  |
| 47.5° | 2559.2 | 1151.0 | 430.7  | 390.7  | 400.7  | 428.2  | 417.0  | 385.8  | 357.0  | 322.1  | 319.6  |
| 50°   | 2649.1 | 1211.0 | 412.0  | 354.6  | 375.8  | 409.5  | 398.2  | 367.0  | 334.5  | 309.6  | 310.8  |
| 52.5° | 2741.5 | 1279.6 | 377.0  | 312.1  | 338.3  | 394.5  | 394.5  | 359.5  | 309.6  | 292.2  | 289.6  |
| 55°   | 2880.1 | 1277.1 | 314.6  | 255.9  | 302.1  | 372.1  | 378.3  | 322.1  | 277.1  | 263.4  | 263.4  |
| 56°   | 2900.0 | 1219.7 | 283.4  | 239.7  | 285.9  | 365.8  | 367.0  | 312.1  | 264.7  | 249.7  | 249.7  |
| 57.5° | 2750.2 | 1101.1 | 248.4  | 219.8  | 265.9  | 354.6  | 355.8  | 303.3  | 254.7  | 233.5  | 230.9  |
| 60°   | 2116.0 | 745.3  | 207.2  | 196.0  | 240.9  | 319.6  | 325.8  | 275.9  | 223.5  | 207.2  | 206.0  |
| 62.5° | 1194.7 | 413.2  | 182.2  | 177.3  | 207.2  | 272.1  | 290.9  | 240.9  | 189.7  | 181.0  | 183.5  |
| 65°   | 545.6  | 227.2  | 153.6  | 143.6  | 167.3  | 209.7  | 234.7  | 198.5  | 156.1  | 146.1  | 146.1  |
| 67.5° | 199.7  | 154.8  | 131.1  | 113.6  | 117.3  | 136.1  | 152.3  | 128.6  | 103.6  | 88.6   | 92.3   |
| 70°   | 142.3  | 129.9  | 114.9  | 98.6   | 91.2   | 88.6   | 87.4   | 72.4   | 51.2   | 39.9   | 42.5   |
| 72.5° | 114.9  | 107.4  | 96.1   | 83.7   | 71.1   | 60.0   | 51.2   | 37.4   | 23.7   | 16.2   | 15.0   |
| 75°   | 82.4   | 78.6   | 69.9   | 60.0   | 50.0   | 42.5   | 35.0   | 23.7   | 12.4   | 6.2    | 6.2    |
| 77.5° | 42.5   | 42.5   | 41.2   | 37.4   | 31.2   | 25.0   | 20.0   | 13.7   | 7.5    | 2.5    | 2.5    |
| 80°   | 32.5   | 35.0   | 36.2   | 32.5   | 28.7   | 22.5   | 16.2   | 10.0   | 5.0    | 1.3    | 1.3    |
| 82.5° | 31.2   | 36.2   | 38.7   | 33.7   | 28.7   | 21.2   | 16.2   | 10.0   | 5.0    | 1.3    | 1.3    |
| 85°   | 7.5    | 7.5    | 11.3   | 12.4   | 16.2   | 17.5   | 13.7   | 8.7    | 3.8    | 1.3    | 1.3    |
| 87.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 1.3    | 1.3    | 1.3    | 1.3    | 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)