

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: P452182

Luminaire Tested: **GLAN-SA3A-760-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13913 lumens  
Efficiency: N/A  
Efficacy: 149.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

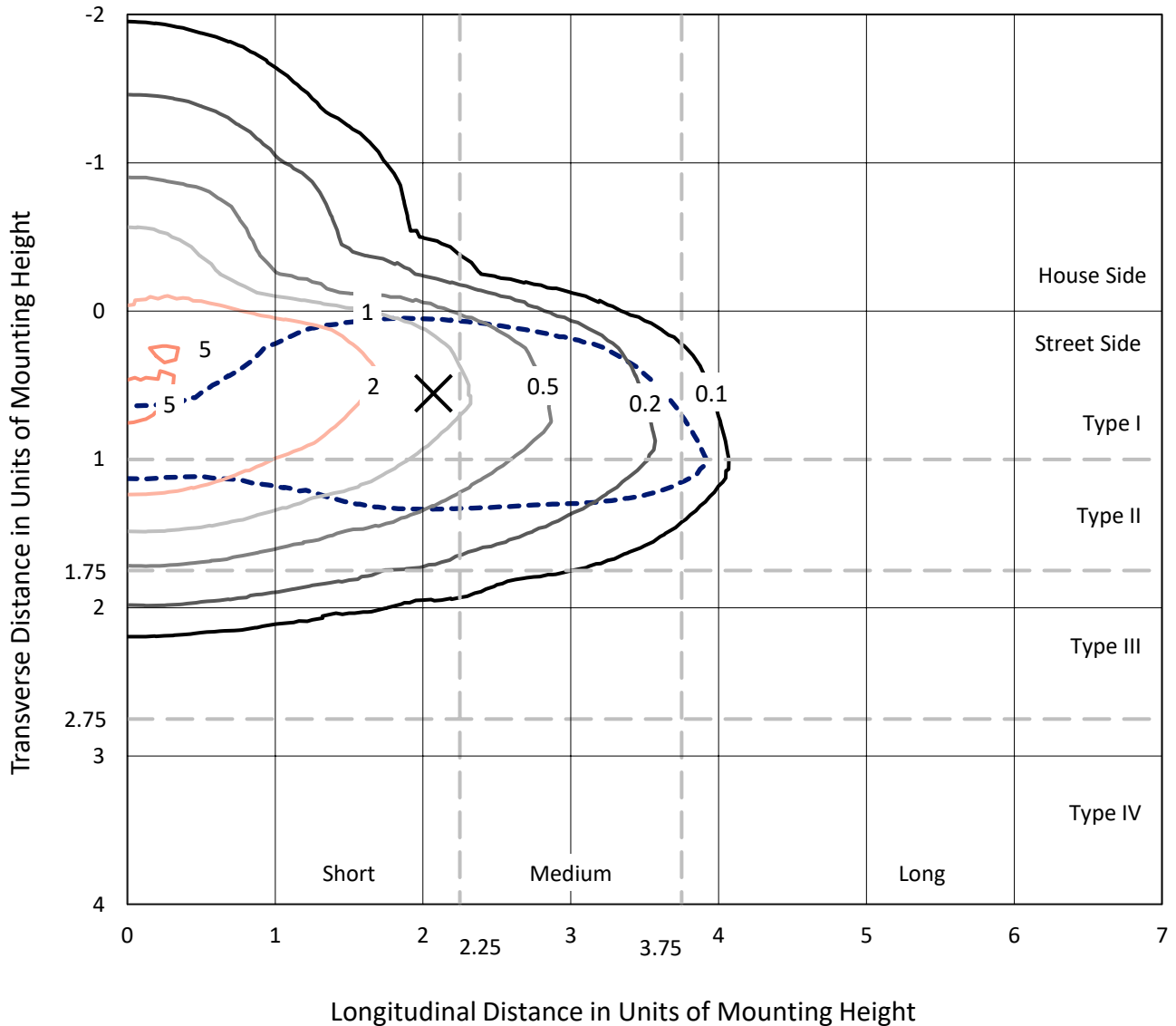
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

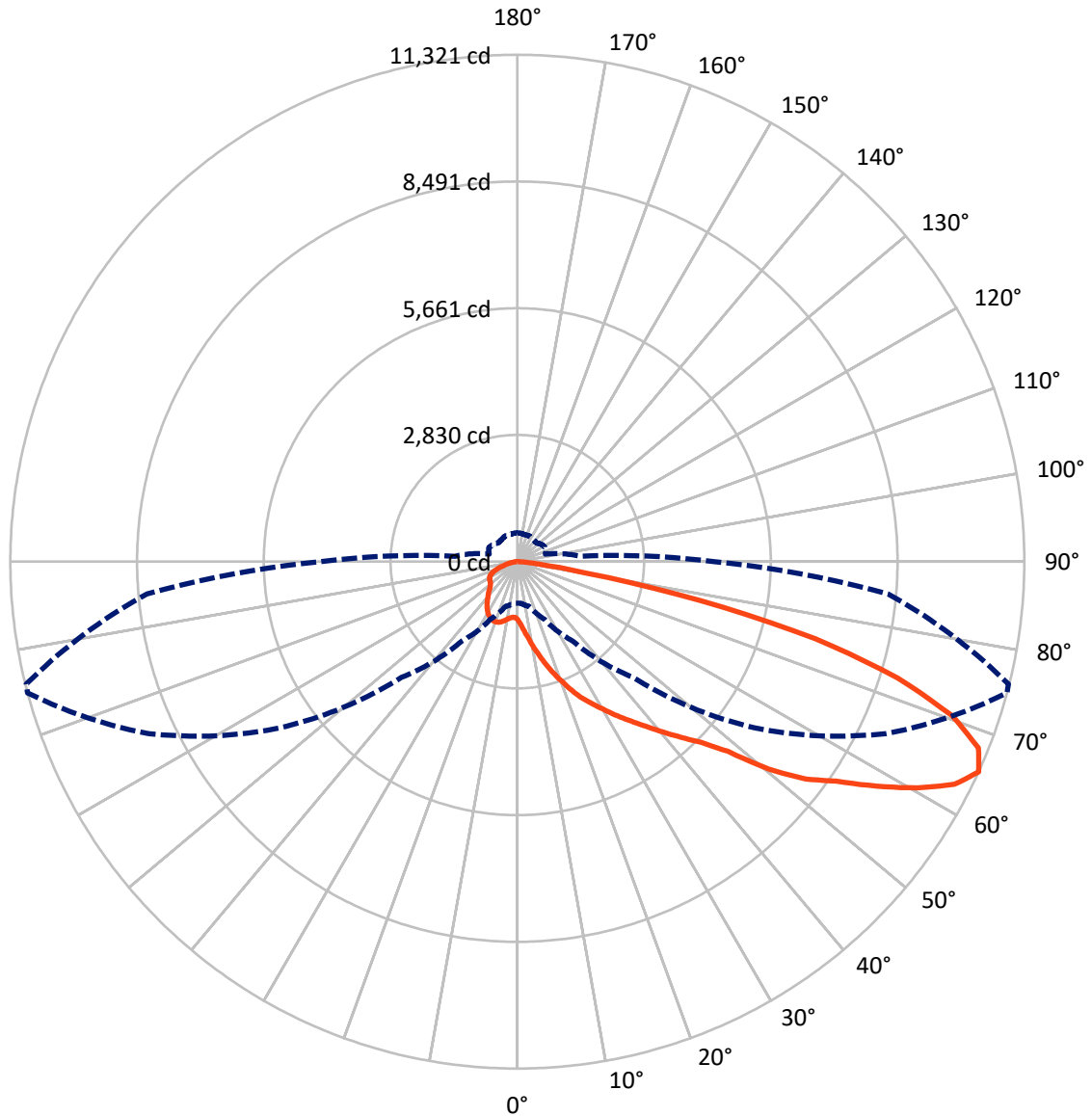
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2338.9   | 0.0    | 2338.9  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 11574.0  | 0.0    | 11574.0 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 13913.0  | 0.0    | 13913.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 157.1   | 1.1       |
| 10°-20°   | 615.2   | 4.4       |
| 20°-30°   | 1188.3  | 8.5       |
| 30°-40°   | 1930.2  | 13.9      |
| 40°-50°   | 2655.1  | 19.1      |
| 50°-60°   | 3134.8  | 22.5      |
| 60°-70°   | 2746.6  | 19.7      |
| 70°-80°   | 1311.3  | 9.4       |
| 80°-90°   | 174.5   | 1.3       |
| 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°    | 13913.0 | 100.0     |
| 0°-180°   | 13913.0 | 100.0     |



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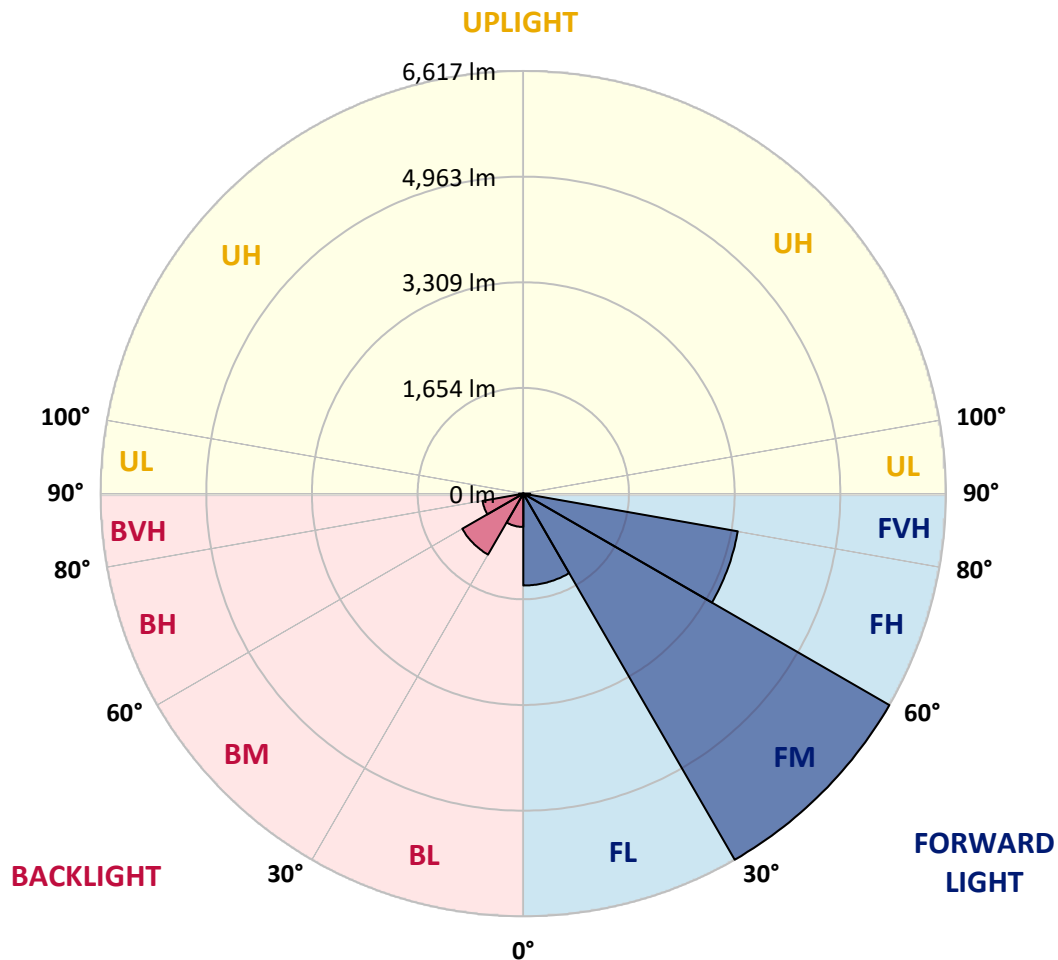
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1438.4 | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 6617.3 | 47.6      |                         |      |         |
| FH   | (60°-80°)   | 3409.3 | 24.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 109.0  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 522.2  | 3.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1102.8 | 7.9       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 648.5  | 4.7       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 65.4   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7  | 1292.7  | 1292.7 |
| 2.5°  | 1717.6 | 1706.2 | 1694.2 | 1661.0 | 1625.5 | 1585.5 | 1528.1 | 1473.1 | 1399.9  | 1397.6  | 1343.3 |
| 5°    | 2193.7 | 2186.2 | 2132.6 | 2101.7 | 2019.4 | 1910.0 | 1817.2 | 1673.0 | 1539.5  | 1523.6  | 1418.0 |
| 7.5°  | 2631.4 | 2602.0 | 2581.6 | 2525.8 | 2444.3 | 2303.9 | 2124.3 | 1929.6 | 1706.2  | 1685.1  | 1510.0 |
| 10°   | 2961.2 | 2958.2 | 2947.6 | 2899.3 | 2838.2 | 2698.6 | 2499.4 | 2220.1 | 1917.5  | 1876.0  | 1621.7 |
| 12.5° | 3208.0 | 3210.2 | 3208.7 | 3208.0 | 3164.2 | 3045.7 | 2829.9 | 2535.6 | 2131.1  | 2101.7  | 1750.8 |
| 15°   | 3370.2 | 3392.8 | 3401.9 | 3439.6 | 3443.4 | 3364.2 | 3178.5 | 2840.5 | 2371.8  | 2328.1  | 1889.6 |
| 17.5° | 3477.4 | 3488.7 | 3530.9 | 3595.1 | 3647.2 | 3632.8 | 3467.6 | 3122.7 | 2617.8  | 2544.6  | 2033.7 |
| 20°   | 3580.0 | 3599.6 | 3632.1 | 3719.6 | 3811.7 | 3853.9 | 3737.7 | 3411.7 | 2861.6  | 2814.8  | 2193.0 |
| 22.5° | 3793.6 | 3821.5 | 3832.8 | 3877.3 | 3955.8 | 4030.5 | 3977.7 | 3688.7 | 3128.7  | 3065.3  | 2362.0 |
| 25°   | 4155.0 | 4184.5 | 4152.8 | 4142.2 | 4167.9 | 4204.8 | 4193.5 | 3949.8 | 3380.8  | 3290.2  | 2522.0 |
| 27.5° | 4625.9 | 4629.7 | 4567.8 | 4509.0 | 4445.6 | 4426.7 | 4392.0 | 4181.4 | 3599.6  | 3524.2  | 2682.7 |
| 30°   | 5131.5 | 5113.4 | 5010.8 | 4904.4 | 4797.2 | 4691.6 | 4592.0 | 4404.8 | 3843.4  | 3756.6  | 2840.5 |
| 32.5° | 5600.9 | 5591.1 | 5477.2 | 5311.9 | 5130.8 | 5031.2 | 4829.7 | 4630.5 | 4104.5  | 4020.7  | 3002.7 |
| 35°   | 5952.6 | 5966.9 | 5841.6 | 5661.3 | 5463.6 | 5375.3 | 5121.0 | 4867.4 | 4374.6  | 4283.3  | 3179.3 |
| 37.5° | 6202.4 | 6194.8 | 6083.9 | 5927.7 | 5754.1 | 5677.1 | 5461.3 | 5126.3 | 4665.2  | 4577.6  | 3372.5 |
| 40°   | 6291.4 | 6286.9 | 6204.6 | 6090.7 | 5980.5 | 5953.3 | 5817.5 | 5405.5 | 4998.0  | 4895.3  | 3604.9 |
| 42.5° | 6234.8 | 6244.6 | 6190.3 | 6159.3 | 6139.0 | 6158.6 | 6171.4 | 5771.5 | 5360.9  | 5266.6  | 3857.0 |
| 45°   | 6061.2 | 6056.0 | 6048.4 | 6099.0 | 6213.7 | 6342.7 | 6521.6 | 6117.1 | 5755.6  | 5680.2  | 4195.0 |
| 47.5° | 5751.1 | 5788.8 | 5807.7 | 5947.3 | 6197.8 | 6503.5 | 6924.6 | 6580.4 | 6328.4  | 6262.7  | 4710.4 |
| 50°   | 5317.2 | 5347.4 | 5459.0 | 5707.3 | 6080.9 | 6563.8 | 7318.5 | 7338.1 | 7283.8  | 7160.8  | 5270.4 |
| 52.5° | 4639.5 | 4686.3 | 4916.5 | 5371.5 | 5840.9 | 6538.9 | 7556.9 | 7987.8 | 8059.5  | 7967.5  | 5822.0 |
| 55°   | 3881.1 | 3946.8 | 4189.7 | 4786.7 | 5510.4 | 6403.1 | 7721.4 | 8364.4 | 8650.4  | 8565.1  | 6353.3 |
| 57.5° | 3138.5 | 3208.0 | 3457.7 | 4035.8 | 4933.8 | 6102.8 | 7829.4 | 8784.0 | 9454.8  | 9343.9  | 7014.4 |
| 60°   | 2352.2 | 2424.6 | 2639.0 | 3234.4 | 4112.8 | 5515.6 | 7756.2 | 9147.7 | 10258.5 | 10211.0 | 7676.2 |
| 62.5° | 1517.6 | 1597.6 | 1784.0 | 2276.7 | 3161.2 | 4713.5 | 7364.5 | 9348.4 | 10954.3 | 10897.0 | 8159.1 |
| 65°   | 924.4  | 933.5  | 1036.1 | 1413.4 | 2163.5 | 3649.4 | 6468.7 | 9082.1 | 11321.1 | 11303.7 | 8306.3 |
| 67.5° | 597.7  | 612.0  | 658.8  | 846.7  | 1297.2 | 2534.8 | 5172.3 | 8202.9 | 11106.7 | 11100.7 | 8002.2 |
| 70°   | 504.9  | 509.4  | 530.5  | 571.3  | 753.9  | 1537.2 | 3632.1 | 6801.5 | 10292.5 | 10292.5 | 7270.9 |
| 72.5° | 451.3  | 457.3  | 464.9  | 477.7  | 538.1  | 870.9  | 2167.3 | 5294.5 | 8886.6  | 8945.5  | 6188.8 |
| 75°   | 409.8  | 408.3  | 412.8  | 415.1  | 458.8  | 569.0  | 1120.6 | 3915.8 | 6874.7  | 6757.0  | 4481.8 |
| 77.5° | 350.9  | 353.2  | 350.9  | 360.7  | 405.2  | 433.2  | 569.0  | 2627.6 | 4166.4  | 4013.9  | 2249.6 |
| 80°   | 288.3  | 292.0  | 295.8  | 301.9  | 346.4  | 329.0  | 341.9  | 1197.6 | 1541.0  | 1508.5  | 695.0  |
| 82.5° | 216.6  | 221.9  | 227.9  | 242.2  | 272.4  | 217.3  | 215.8  | 511.6  | 556.2   | 509.4   | 255.8  |
| 85°   | 87.5   | 103.4  | 156.2  | 170.5  | 171.3  | 119.2  | 132.8  | 213.6  | 227.1   | 221.9   | 100.4  |
| 87.5° | 20.4   | 24.1   | 50.6   | 76.2   | 70.2   | 44.5   | 49.1   | 69.4   | 79.2    | 73.2    | 34.0   |
| 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°    | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 | 1292.7 |
| 2.5°  | 1318.4 | 1291.9 | 1246.7 | 1211.9 | 1187.0 | 1165.2 | 1151.6 | 1143.3 | 1140.3 | 1139.5 | 1140.3 |
| 5°    | 1362.9 | 1316.1 | 1244.4 | 1199.1 | 1174.2 | 1159.9 | 1151.6 | 1150.8 | 1151.6 | 1152.3 | 1150.1 |
| 7.5°  | 1424.0 | 1356.8 | 1263.3 | 1221.0 | 1202.1 | 1191.6 | 1187.8 | 1186.3 | 1187.0 | 1186.3 | 1186.3 |
| 10°   | 1505.5 | 1413.4 | 1300.2 | 1256.5 | 1240.6 | 1228.5 | 1222.5 | 1218.7 | 1215.7 | 1212.7 | 1211.2 |
| 12.5° | 1595.3 | 1476.1 | 1340.2 | 1298.0 | 1275.3 | 1256.5 | 1242.9 | 1233.1 | 1226.3 | 1219.5 | 1218.0 |
| 15°   | 1695.7 | 1542.5 | 1384.8 | 1325.9 | 1293.4 | 1265.5 | 1242.1 | 1226.3 | 1214.2 | 1204.4 | 1203.6 |
| 17.5° | 1791.5 | 1605.1 | 1414.9 | 1338.7 | 1291.2 | 1251.9 | 1221.0 | 1199.1 | 1184.0 | 1171.2 | 1169.7 |
| 20°   | 1894.1 | 1664.7 | 1428.5 | 1330.4 | 1268.5 | 1221.0 | 1180.3 | 1153.8 | 1136.5 | 1122.1 | 1119.9 |
| 22.5° | 1997.5 | 1715.3 | 1427.0 | 1304.0 | 1229.3 | 1173.5 | 1130.4 | 1102.5 | 1082.1 | 1067.8 | 1062.5 |
| 25°   | 2096.4 | 1756.0 | 1408.2 | 1261.8 | 1175.0 | 1116.9 | 1073.1 | 1047.4 | 1029.3 | 1012.0 | 1012.0 |
| 27.5° | 2185.4 | 1780.2 | 1372.7 | 1210.4 | 1119.1 | 1058.0 | 1023.3 | 999.9  | 983.3  | 972.0  | 965.2  |
| 30°   | 2273.0 | 1791.5 | 1324.4 | 1145.5 | 1060.3 | 1008.2 | 980.3  | 966.7  | 951.6  | 938.8  | 937.3  |
| 32.5° | 2351.4 | 1789.2 | 1264.0 | 1082.1 | 1004.4 | 967.4  | 956.1  | 945.6  | 929.7  | 911.6  | 907.1  |
| 35°   | 2427.7 | 1774.2 | 1192.3 | 1012.7 | 957.6  | 943.3  | 946.3  | 931.2  | 902.5  | 879.9  | 876.1  |
| 37.5° | 2510.7 | 1747.0 | 1113.8 | 956.1  | 918.4  | 932.0  | 939.5  | 906.3  | 859.5  | 824.1  | 815.8  |
| 40°   | 2606.5 | 1716.0 | 1032.3 | 899.5  | 887.5  | 921.4  | 921.4  | 860.3  | 796.1  | 774.3  | 768.2  |
| 42.5° | 2719.0 | 1690.4 | 964.4  | 852.0  | 861.8  | 895.8  | 892.0  | 799.2  | 772.7  | 761.4  | 758.4  |
| 45°   | 2897.1 | 1681.3 | 894.2  | 810.5  | 840.7  | 865.6  | 834.6  | 778.0  | 762.9  | 753.9  | 750.9  |
| 47.5° | 3178.5 | 1691.9 | 832.4  | 779.5  | 816.5  | 835.4  | 770.5  | 763.7  | 753.1  | 740.3  | 738.8  |
| 50°   | 3439.6 | 1682.1 | 788.6  | 762.2  | 795.4  | 799.2  | 744.1  | 746.3  | 740.3  | 726.0  | 722.9  |
| 52.5° | 3653.2 | 1651.1 | 760.7  | 753.1  | 777.3  | 735.8  | 719.2  | 727.5  | 725.2  | 707.1  | 704.1  |
| 55°   | 3887.9 | 1632.3 | 747.1  | 753.1  | 765.2  | 680.7  | 695.8  | 707.8  | 704.8  | 692.0  | 691.2  |
| 57.5° | 4172.4 | 1636.1 | 737.3  | 755.4  | 753.1  | 652.8  | 672.4  | 686.7  | 686.0  | 682.2  | 682.2  |
| 60°   | 4463.7 | 1637.6 | 722.2  | 754.6  | 738.8  | 630.9  | 648.2  | 668.6  | 670.1  | 672.4  | 672.4  |
| 62.5° | 4560.3 | 1571.9 | 692.8  | 741.1  | 707.1  | 609.7  | 625.6  | 653.5  | 652.0  | 658.0  | 658.8  |
| 65°   | 4379.9 | 1390.0 | 649.0  | 710.1  | 666.3  | 594.7  | 608.2  | 633.9  | 625.6  | 641.4  | 644.5  |
| 67.5° | 3986.7 | 1150.1 | 581.1  | 654.3  | 621.1  | 578.8  | 596.9  | 606.7  | 591.6  | 622.6  | 623.3  |
| 70°   | 3445.7 | 898.0  | 495.0  | 575.0  | 569.8  | 562.2  | 587.9  | 572.8  | 551.6  | 589.4  | 581.8  |
| 72.5° | 2881.2 | 686.0  | 395.4  | 470.1  | 501.1  | 537.3  | 572.0  | 529.0  | 499.6  | 510.9  | 497.3  |
| 75°   | 2164.3 | 507.1  | 317.7  | 368.3  | 417.3  | 501.8  | 557.7  | 476.2  | 430.9  | 420.3  | 417.3  |
| 77.5° | 1103.3 | 331.3  | 237.7  | 275.4  | 313.2  | 453.5  | 538.1  | 414.3  | 356.9  | 340.3  | 332.8  |
| 80°   | 393.9  | 206.0  | 167.5  | 190.2  | 211.3  | 390.1  | 470.1  | 342.6  | 277.0  | 273.9  | 277.0  |
| 82.5° | 182.6  | 132.8  | 112.4  | 124.5  | 125.3  | 260.3  | 358.5  | 255.8  | 210.5  | 320.0  | 270.2  |
| 85°   | 78.5   | 66.4   | 63.4   | 61.9   | 57.4   | 116.2  | 201.5  | 137.3  | 214.3  | 95.8   | 88.3   |
| 87.5° | 23.4   | 26.4   | 23.4   | 17.4   | 12.8   | 12.8   | 20.4   | 7.5    | 5.3    | 3.8    | 3.8    |
| 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)