

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: P522650

Luminaire Tested: **GLAN-SA2A-727-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7697 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

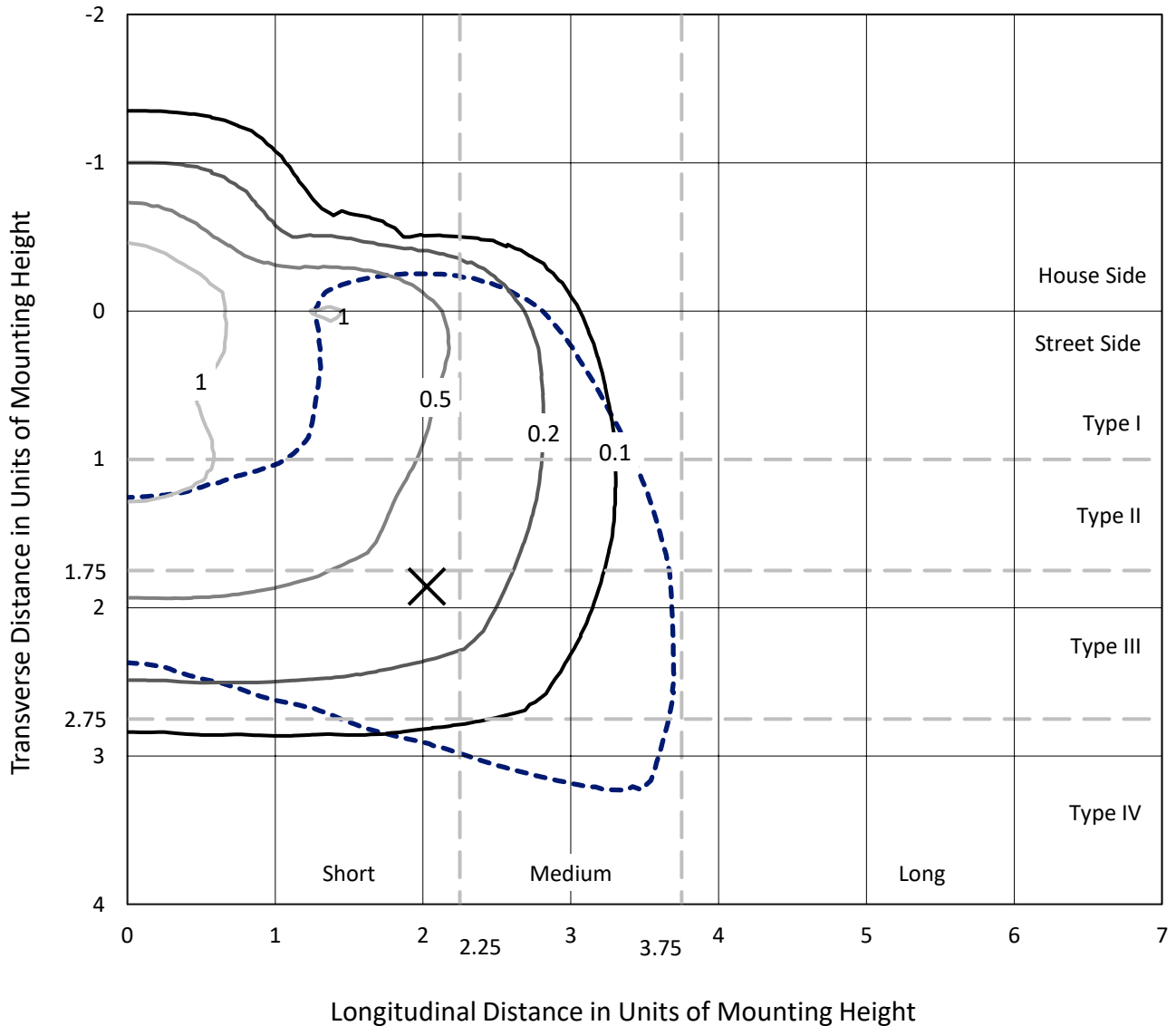
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

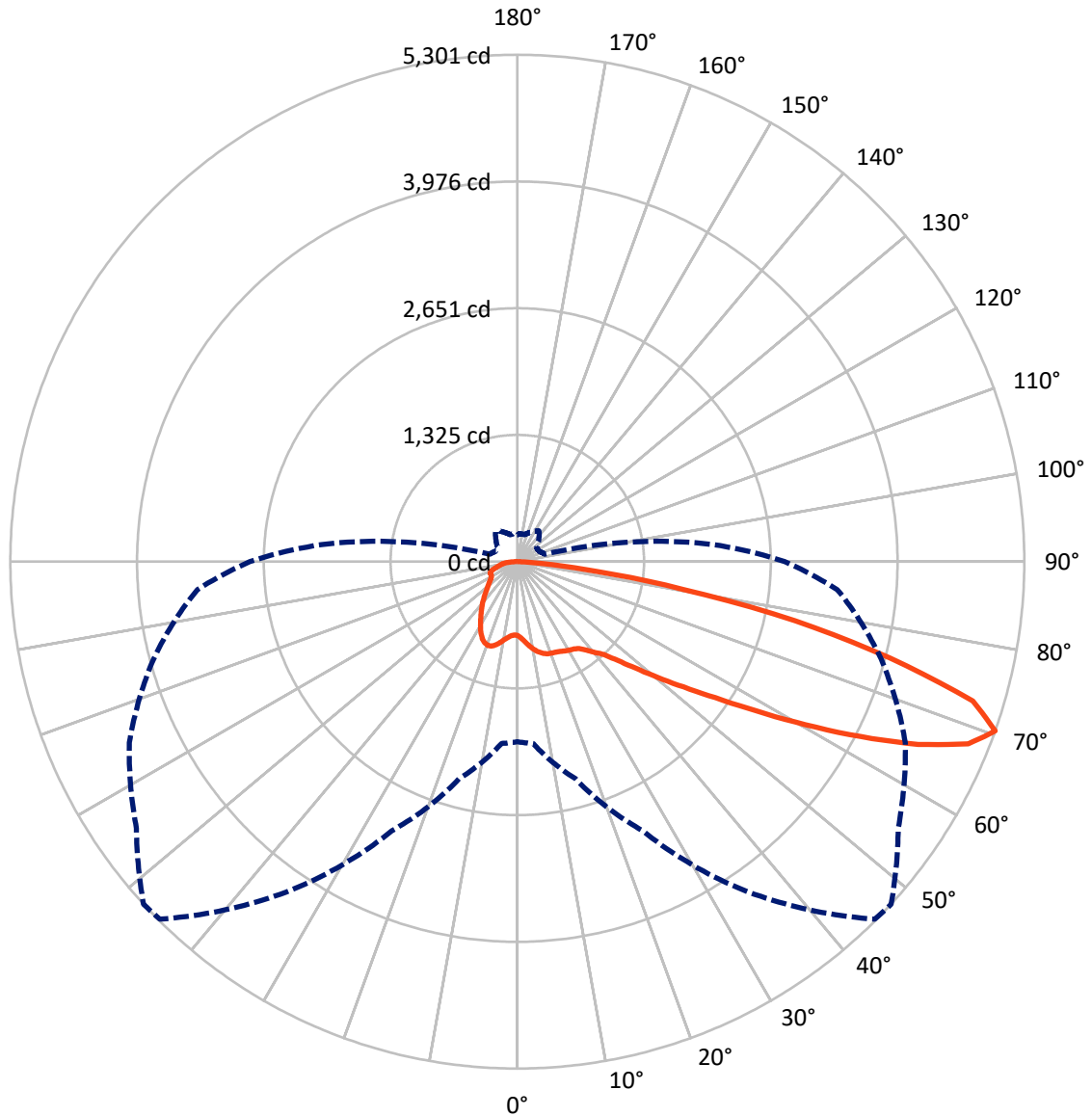
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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CATALOG NUMBER: GLAN-SA2A-727-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1742.7   | 0.0    | 1742.7 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 5954.2   | 0.0    | 5954.2 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 7697.0   | 0.0    | 7697.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.6   | 1.0       |
| 10°-20°   | 266.3  | 3.5       |
| 20°-30°   | 442.8  | 5.8       |
| 30°-40°   | 627.6  | 8.2       |
| 40°-50°   | 926.5  | 12.0      |
| 50°-60°   | 1604.7 | 20.8      |
| 60°-70°   | 2266.7 | 29.4      |
| 70°-80°   | 1303.0 | 16.9      |
| 80°-90°   | 179.8  | 2.3       |
| 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°    | 7697.0 | 100.0     |
| 0°-180°   | 7697.0 | 100.0     |

**Coefficient of Utilization**



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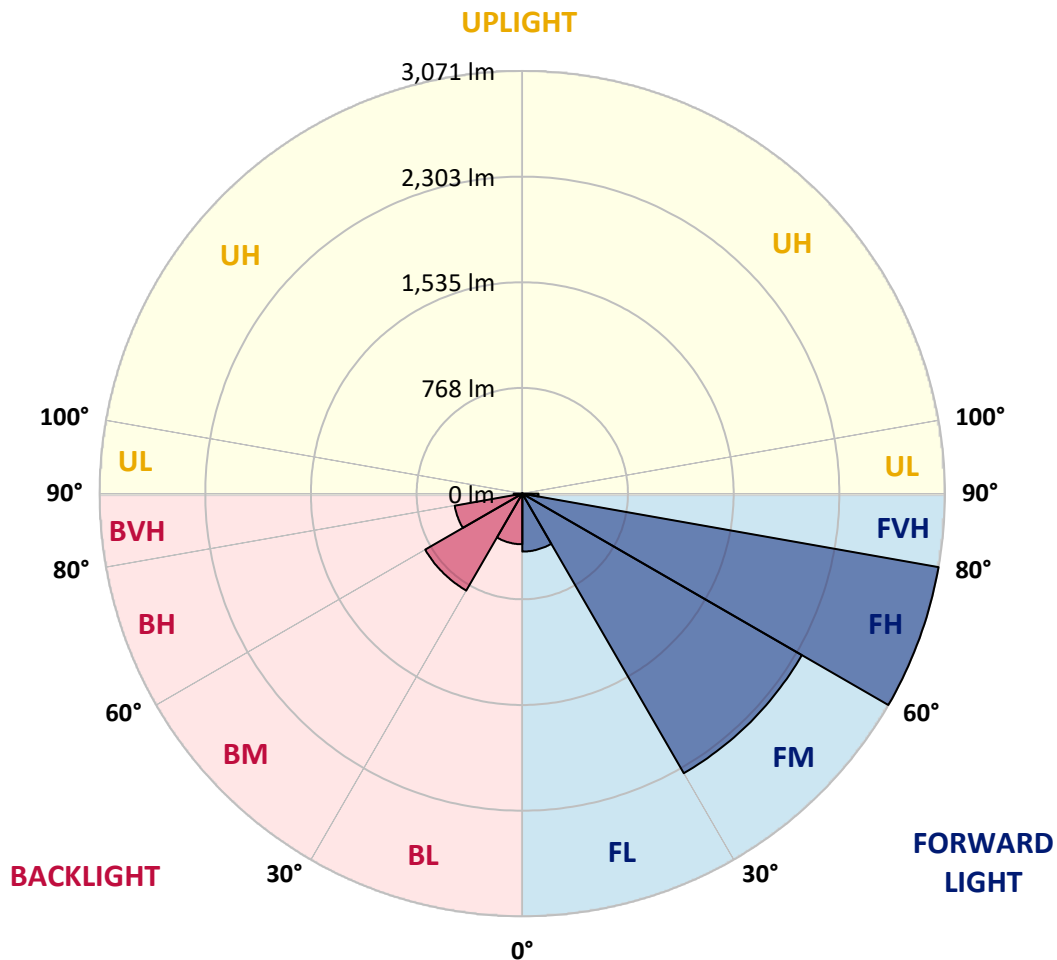
CATALOG NUMBER: GLAN-SA2A-727-U-T4W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 420.9  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2345.1 | 30.5      |                         |      |         |
| FH (60°-80°)   | 3070.8 | 39.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 117.4  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 367.8  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 813.7  | 10.6      | B1/1000                 |      |         |
| BH (60°-80°)   | 498.9  | 6.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 62.3   | 0.8       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47.5°  | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  | 772.7  |
| 2.5°  | 822.5  | 819.6  | 819.2  | 813.1  | 809.8  | 803.6  | 801.1  | 795.3  | 788.3  | 781.3  | 774.7  |
| 5°    | 887.2  | 887.2  | 884.3  | 875.7  | 862.1  | 848.1  | 841.9  | 830.8  | 811.0  | 794.9  | 781.3  |
| 7.5°  | 953.5  | 954.3  | 948.6  | 935.8  | 916.4  | 893.8  | 888.0  | 871.5  | 843.5  | 820.1  | 799.9  |
| 10°   | 1010.8 | 1010.8 | 1002.9 | 985.6  | 961.3  | 936.6  | 930.8  | 912.3  | 881.0  | 851.8  | 825.4  |
| 12.5° | 1054.4 | 1054.4 | 1044.1 | 1021.5 | 995.1  | 972.9  | 966.3  | 948.6  | 919.3  | 886.8  | 853.4  |
| 15°   | 1082.8 | 1080.8 | 1069.2 | 1043.7 | 1018.2 | 998.8  | 994.3  | 979.4  | 952.7  | 919.7  | 882.2  |
| 17.5° | 1084.1 | 1083.2 | 1072.1 | 1050.7 | 1028.5 | 1015.3 | 1012.4 | 1002.5 | 981.5  | 950.2  | 910.7  |
| 20°   | 1060.2 | 1061.8 | 1054.4 | 1039.2 | 1028.5 | 1022.7 | 1021.5 | 1018.2 | 1003.3 | 974.1  | 934.6  |
| 22.5° | 1034.6 | 1037.5 | 1030.5 | 1022.3 | 1021.5 | 1027.2 | 1028.1 | 1028.9 | 1019.4 | 991.0  | 954.7  |
| 25°   | 1028.5 | 1030.5 | 1023.5 | 1016.1 | 1020.6 | 1035.9 | 1039.2 | 1042.5 | 1035.1 | 1011.2 | 978.6  |
| 27.5° | 1059.8 | 1058.1 | 1044.5 | 1028.5 | 1031.3 | 1051.9 | 1056.5 | 1060.2 | 1056.5 | 1035.9 | 1008.3 |
| 30°   | 1148.3 | 1143.0 | 1115.8 | 1068.8 | 1054.0 | 1068.4 | 1072.9 | 1083.2 | 1083.2 | 1068.0 | 1040.4 |
| 32.5° | 1296.6 | 1286.3 | 1236.5 | 1144.2 | 1092.7 | 1084.1 | 1088.6 | 1105.5 | 1114.1 | 1102.2 | 1072.1 |
| 35°   | 1476.6 | 1465.9 | 1394.6 | 1270.6 | 1163.6 | 1115.4 | 1114.1 | 1133.1 | 1156.1 | 1129.4 | 1090.2 |
| 37.5° | 1657.4 | 1646.3 | 1560.6 | 1421.4 | 1266.9 | 1181.3 | 1173.9 | 1180.4 | 1190.3 | 1141.3 | 1115.4 |
| 40°   | 1838.2 | 1825.0 | 1750.1 | 1589.9 | 1393.4 | 1268.6 | 1249.2 | 1219.6 | 1215.5 | 1180.4 | 1164.0 |
| 42.5° | 2017.4 | 2005.4 | 1967.5 | 1778.9 | 1545.0 | 1353.8 | 1324.2 | 1273.1 | 1288.8 | 1267.8 | 1253.3 |
| 45°   | 2198.2 | 2199.0 | 2158.7 | 1991.0 | 1727.8 | 1511.2 | 1471.2 | 1391.3 | 1428.4 | 1420.6 | 1428.8 |
| 47.5° | 2358.4 | 2356.4 | 2341.9 | 2197.0 | 1954.8 | 1713.8 | 1662.3 | 1569.7 | 1633.1 | 1661.9 | 1725.0 |
| 50°   | 2513.7 | 2512.5 | 2513.3 | 2430.5 | 2218.4 | 1954.8 | 1897.9 | 1800.7 | 1943.7 | 2043.7 | 2156.6 |
| 52.5° | 2736.1 | 2743.1 | 2693.3 | 2671.5 | 2538.8 | 2239.4 | 2176.8 | 2076.3 | 2310.6 | 2468.4 | 2688.8 |
| 55°   | 2959.4 | 2953.6 | 2914.5 | 2937.1 | 2874.1 | 2576.3 | 2510.8 | 2430.9 | 2719.2 | 2891.8 | 3223.0 |
| 57.5° | 3090.7 | 3092.8 | 3132.8 | 3243.6 | 3288.0 | 2996.4 | 2937.1 | 2875.3 | 3178.5 | 3300.8 | 3698.3 |
| 60°   | 3209.0 | 3218.4 | 3333.3 | 3542.6 | 3663.3 | 3512.5 | 3459.8 | 3399.7 | 3599.8 | 3648.4 | 4111.0 |
| 62.5° | 3246.0 | 3275.3 | 3475.9 | 3788.9 | 4029.0 | 4094.9 | 4029.4 | 3896.8 | 4001.0 | 3982.1 | 4390.6 |
| 65°   | 3061.1 | 3101.0 | 3460.6 | 3881.1 | 4355.6 | 4647.6 | 4606.0 | 4359.7 | 4342.9 | 4228.8 | 4436.4 |
| 67.5° | 2574.2 | 2614.2 | 3075.9 | 3687.6 | 4490.7 | 5126.3 | 5084.7 | 4697.5 | 4550.4 | 4251.8 | 4090.4 |
| 70°   | 1883.5 | 1908.7 | 2350.2 | 3104.7 | 4219.3 | 5286.9 | 5301.3 | 4862.2 | 4476.3 | 3938.4 | 3358.5 |
| 72.5° | 1085.3 | 1140.9 | 1450.2 | 2184.2 | 3447.0 | 4880.8 | 4980.9 | 4519.6 | 4007.6 | 3285.6 | 2348.1 |
| 75°   | 466.7  | 467.9  | 670.5  | 1204.7 | 2334.5 | 3923.2 | 4019.9 | 3746.5 | 3147.2 | 2271.9 | 1253.8 |
| 77.5° | 222.0  | 226.1  | 294.9  | 537.9  | 1285.1 | 2710.6 | 2971.7 | 2646.7 | 2012.9 | 1091.5 | 473.7  |
| 80°   | 144.2  | 147.0  | 180.4  | 266.9  | 630.2  | 1571.7 | 1753.8 | 1526.8 | 888.0  | 390.1  | 204.3  |
| 82.5° | 87.3   | 88.1   | 120.7  | 163.1  | 346.8  | 711.7  | 839.0  | 662.7  | 378.9  | 233.5  | 120.3  |
| 85°   | 53.1   | 53.5   | 73.3   | 100.9  | 210.5  | 245.9  | 252.5  | 250.4  | 222.4  | 152.8  | 64.3   |
| 87.5° | 25.5   | 26.4   | 37.9   | 47.8   | 82.8   | 76.2   | 72.1   | 83.6   | 105.0  | 82.4   | 27.6   |
| 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°    | 772.7  | 772.7  | 772.7  | 772.7 | 772.7 | 772.7 | 772.7 | 772.7 | 772.7 | 772.7 | 772.7 |
| 2.5°  | 771.9  | 770.6  | 767.7  | 766.5 | 765.7 | 766.1 | 765.7 | 765.7 | 766.1 | 766.1 | 766.1 |
| 5°    | 775.6  | 773.5  | 769.0  | 769.0 | 771.5 | 777.2 | 782.6 | 786.7 | 791.2 | 790.8 | 790.8 |
| 7.5°  | 791.6  | 787.9  | 782.6  | 784.2 | 790.4 | 799.5 | 808.9 | 818.0 | 827.1 | 827.9 | 827.5 |
| 10°   | 815.1  | 811.4  | 805.6  | 807.7 | 817.6 | 831.2 | 843.1 | 856.3 | 866.2 | 869.1 | 868.2 |
| 12.5° | 841.9  | 834.5  | 829.5  | 835.3 | 850.9 | 869.1 | 880.6 | 890.5 | 897.5 | 901.6 | 900.0 |
| 15°   | 869.1  | 862.1  | 856.3  | 868.2 | 887.2 | 904.1 | 909.8 | 911.5 | 912.7 | 916.8 | 916.0 |
| 17.5° | 895.4  | 886.0  | 883.9  | 899.5 | 917.7 | 925.1 | 921.8 | 914.8 | 909.4 | 912.7 | 912.3 |
| 20°   | 918.9  | 911.5  | 910.7  | 926.3 | 933.3 | 926.3 | 912.3 | 900.0 | 890.5 | 891.3 | 890.9 |
| 22.5° | 941.1  | 935.4  | 936.2  | 942.8 | 931.7 | 907.8 | 884.7 | 867.8 | 857.5 | 859.6 | 860.8 |
| 25°   | 965.9  | 960.1  | 962.2  | 951.4 | 914.8 | 873.2 | 839.8 | 825.4 | 821.3 | 825.4 | 828.3 |
| 27.5° | 998.0  | 994.3  | 993.0  | 951.9 | 884.7 | 822.1 | 784.2 | 778.9 | 782.6 | 791.6 | 796.2 |
| 30°   | 1032.6 | 1032.6 | 1026.0 | 944.9 | 843.5 | 760.7 | 727.8 | 728.6 | 741.4 | 754.2 | 758.7 |
| 32.5° | 1065.9 | 1072.9 | 1052.4 | 925.9 | 790.4 | 701.0 | 675.9 | 676.7 | 687.8 | 703.5 | 707.6 |
| 35°   | 1093.5 | 1113.7 | 1075.0 | 891.3 | 727.8 | 650.8 | 631.8 | 620.7 | 621.1 | 633.1 | 636.4 |
| 37.5° | 1131.4 | 1168.9 | 1088.2 | 839.8 | 661.1 | 607.9 | 586.5 | 567.2 | 554.4 | 549.4 | 549.4 |
| 40°   | 1197.3 | 1252.5 | 1091.5 | 763.6 | 598.0 | 567.2 | 536.7 | 513.6 | 488.9 | 466.7 | 462.5 |
| 42.5° | 1309.0 | 1378.6 | 1084.9 | 675.9 | 541.2 | 522.3 | 492.6 | 464.2 | 430.0 | 398.7 | 396.2 |
| 45°   | 1506.7 | 1542.5 | 1067.2 | 584.9 | 490.5 | 479.0 | 450.2 | 419.3 | 383.0 | 355.0 | 353.0 |
| 47.5° | 1823.4 | 1772.7 | 1043.7 | 504.1 | 444.4 | 441.1 | 418.9 | 383.0 | 346.8 | 327.4 | 325.4 |
| 50°   | 2285.9 | 2135.2 | 1040.4 | 445.7 | 407.3 | 409.0 | 390.9 | 357.9 | 326.2 | 310.1 | 307.7 |
| 52.5° | 2842.8 | 2573.0 | 1062.2 | 404.5 | 374.8 | 381.0 | 371.9 | 341.4 | 313.4 | 299.8 | 297.4 |
| 55°   | 3383.2 | 2966.8 | 1075.4 | 372.3 | 344.3 | 355.9 | 357.1 | 331.6 | 306.0 | 292.4 | 290.8 |
| 57.5° | 3821.8 | 3263.3 | 1016.9 | 343.1 | 318.0 | 335.7 | 344.7 | 325.8 | 302.3 | 292.0 | 290.4 |
| 60°   | 4127.0 | 3403.4 | 850.5  | 317.1 | 298.6 | 319.6 | 340.2 | 326.2 | 311.4 | 312.6 | 313.4 |
| 62.5° | 4224.2 | 3341.2 | 638.0  | 297.8 | 285.4 | 314.3 | 347.6 | 343.1 | 327.9 | 337.3 | 339.0 |
| 65°   | 4063.2 | 3084.2 | 462.5  | 282.5 | 273.9 | 318.0 | 369.9 | 355.5 | 322.1 | 329.1 | 329.1 |
| 67.5° | 3524.0 | 2657.0 | 360.0  | 268.5 | 260.7 | 325.0 | 392.1 | 354.2 | 308.5 | 316.7 | 309.3 |
| 70°   | 2795.4 | 2055.3 | 299.8  | 252.9 | 246.7 | 314.7 | 394.2 | 341.4 | 292.4 | 294.1 | 280.1 |
| 72.5° | 1855.1 | 1351.4 | 257.8  | 238.1 | 225.3 | 283.0 | 377.3 | 325.0 | 276.8 | 267.3 | 253.3 |
| 75°   | 909.0  | 673.8  | 224.9  | 219.5 | 197.3 | 246.3 | 354.2 | 309.3 | 259.9 | 245.1 | 237.2 |
| 77.5° | 352.2  | 286.7  | 191.9  | 196.1 | 171.8 | 217.1 | 323.7 | 287.1 | 237.7 | 217.5 | 211.3 |
| 80°   | 170.9  | 162.7  | 157.3  | 163.5 | 141.3 | 184.9 | 295.7 | 267.7 | 217.1 | 194.8 | 185.8 |
| 82.5° | 106.3  | 100.5  | 120.7  | 127.3 | 108.7 | 168.9 | 280.5 | 251.2 | 191.1 | 161.5 | 154.0 |
| 85°   | 54.0   | 57.7   | 80.7   | 86.9  | 77.8  | 134.3 | 231.1 | 188.6 | 138.0 | 114.5 | 115.3 |
| 87.5° | 20.6   | 27.6   | 42.4   | 45.7  | 41.6  | 70.8  | 127.3 | 110.0 | 88.6  | 60.1  | 55.6  |
| 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)