

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: P652692

Luminaire Tested: **GLAN-SA1C-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1C-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6122.5 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

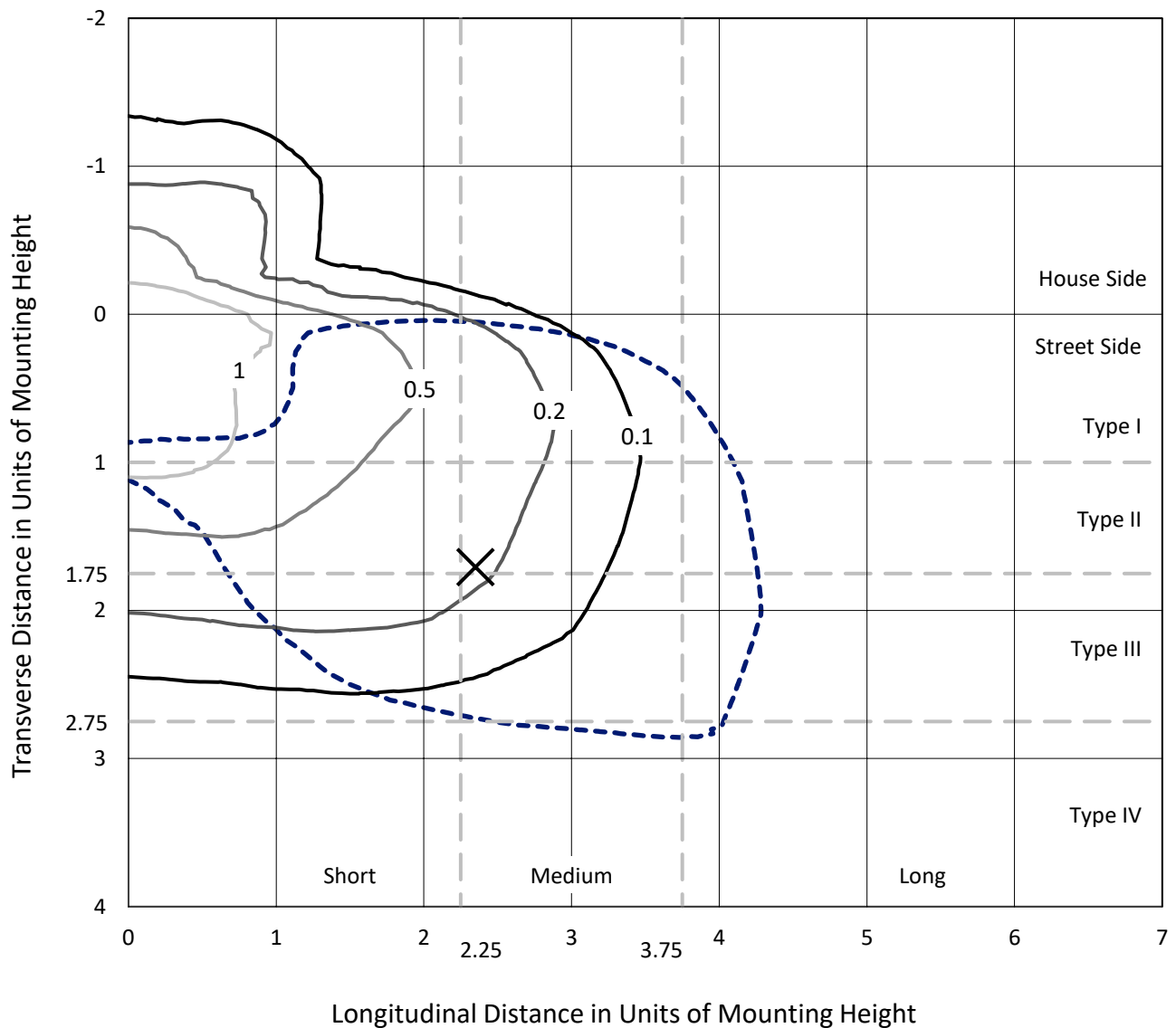
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

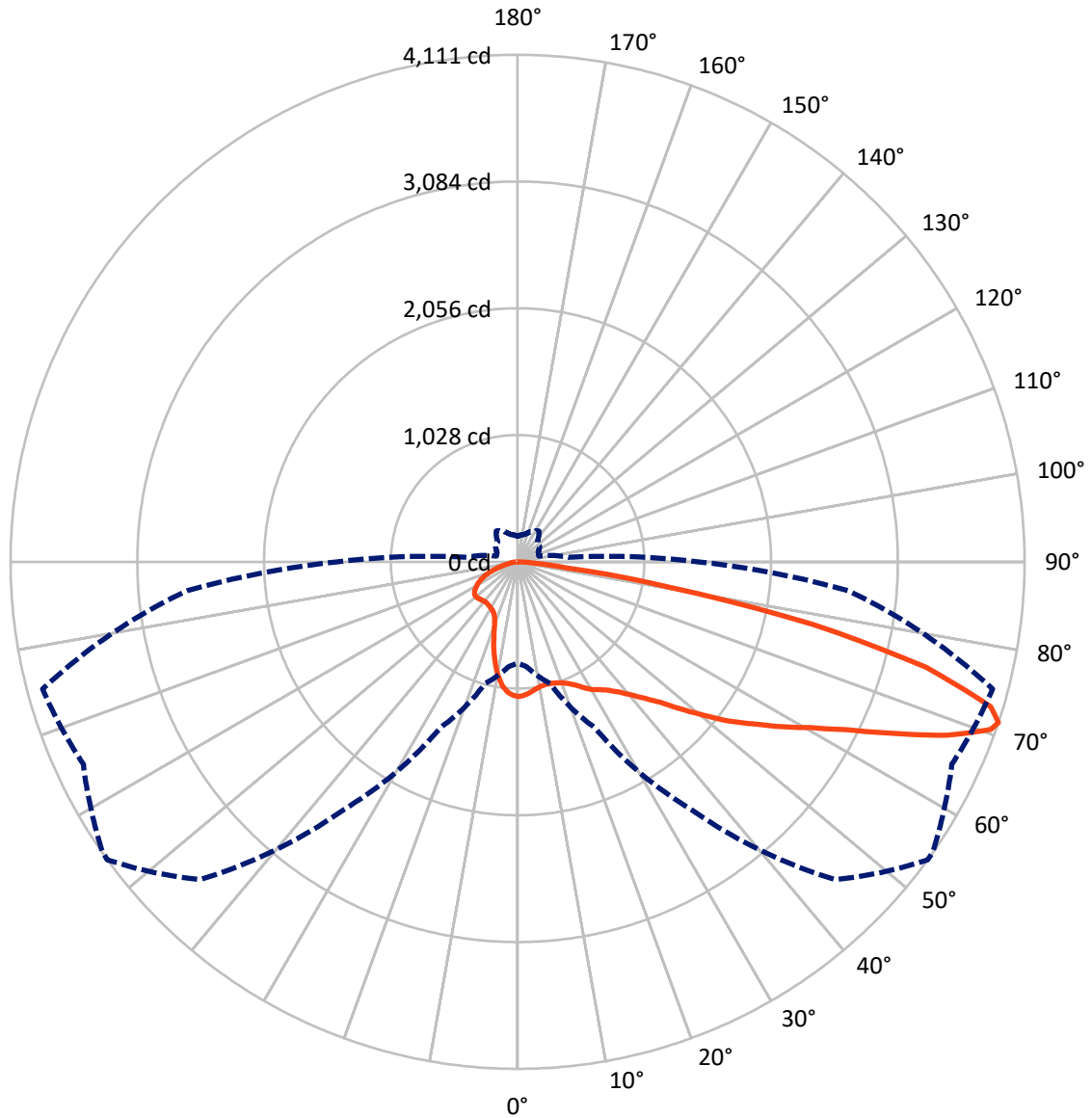
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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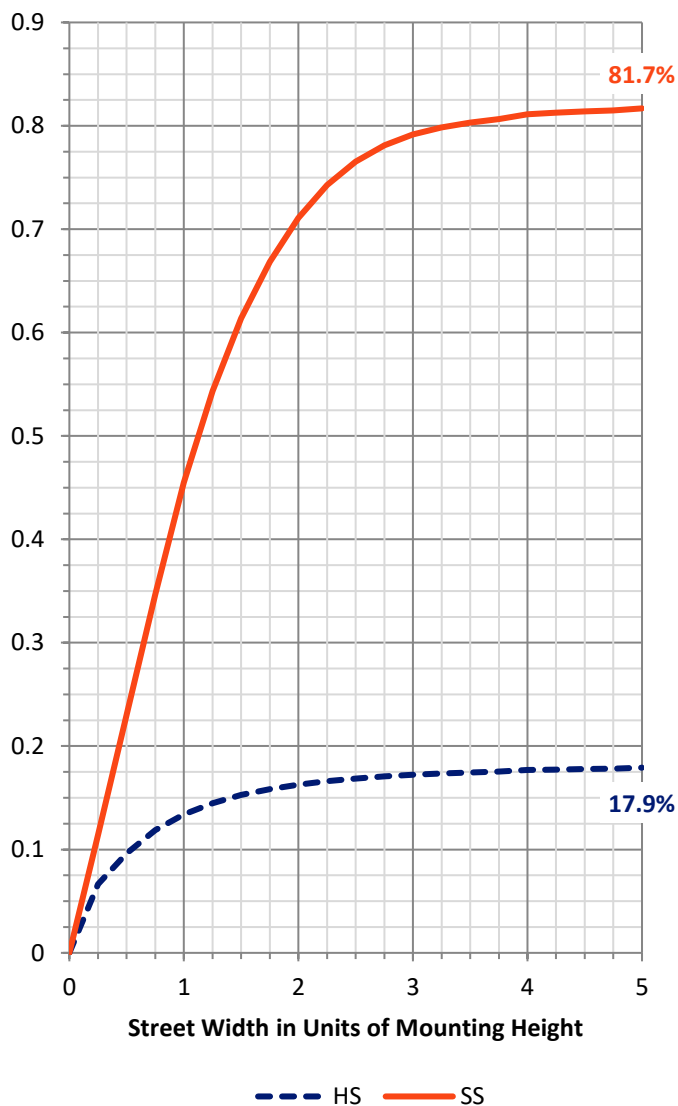
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1105.4   | 0.0    | 1105.4 |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 5017.1   | 0.0    | 5017.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 6122.5   | 0.0    | 6122.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.3   | 1.6       |
| 10°-20°   | 257.0  | 4.2       |
| 20°-30°   | 428.0  | 7.0       |
| 30°-40°   | 632.8  | 10.3      |
| 40°-50°   | 891.4  | 14.6      |
| 50°-60°   | 1193.6 | 19.5      |
| 60°-70°   | 1504.4 | 24.6      |
| 70°-80°   | 1027.5 | 16.8      |
| 80°-90°   | 90.4   | 1.5       |
| 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°    | 6122.5 | 100.0     |
| 0°-180°   | 6122.5 | 100.0     |

**Coefficient of Utilization**

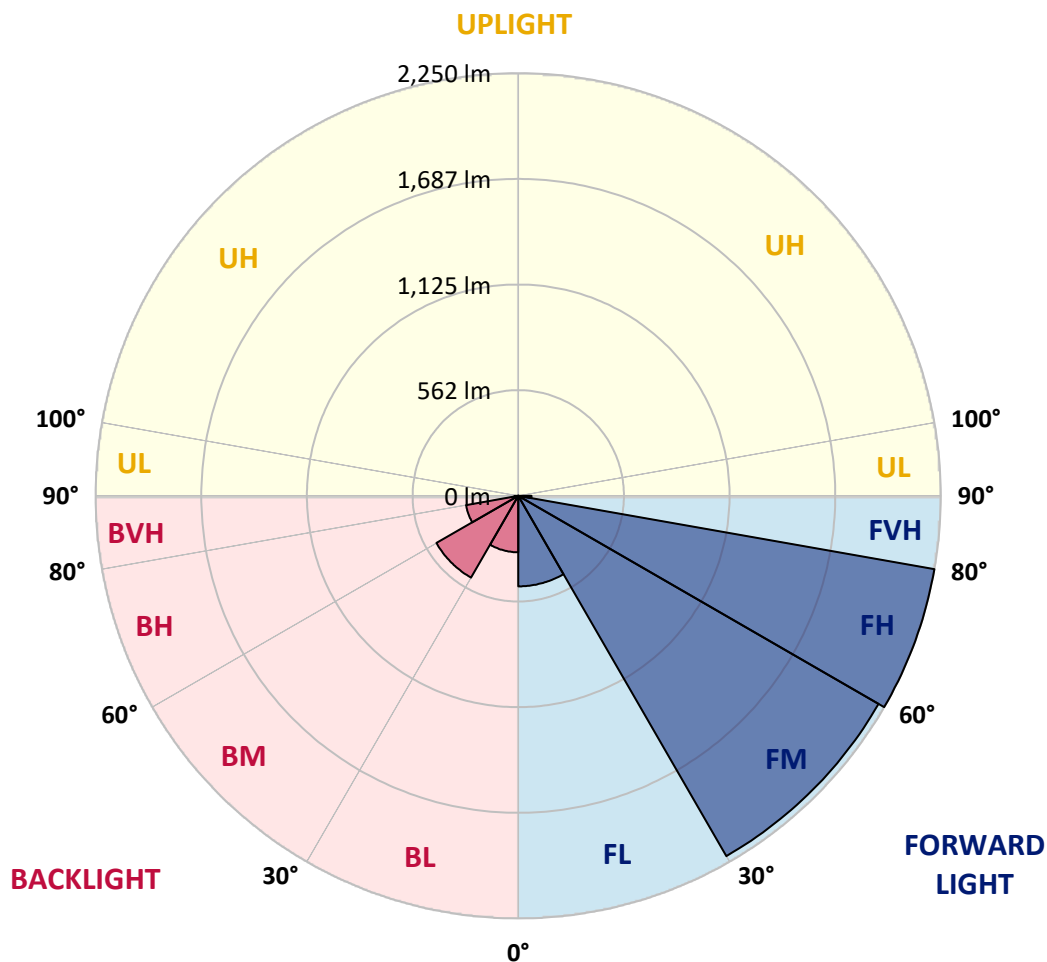


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 481.9  | 7.9       |                         |      |         |
| FM (30°-60°)   | 2214.9 | 36.2      |                         |      |         |
| FH (60°-80°)   | 2249.6 | 36.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 70.6   | 1.2       |                         |      | G1/100  |
| BL (0°-30°)    | 300.4  | 4.9       | B1/500                  |      |         |
| BM (30°-60°)   | 502.9  | 8.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 282.3  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 19.7   | 0.3       |                         |      | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 |
| 2.5°  | 1055.3 | 1060.2 | 1061.6 | 1064.9 | 1071.9 | 1077.5 | 1083.0 | 1082.5 | 1090.4 | 1093.6 | 1096.7 |
| 5°    | 1008.4 | 1009.7 | 1014.6 | 1021.2 | 1033.5 | 1049.0 | 1064.2 | 1064.5 | 1084.0 | 1099.6 | 1107.3 |
| 7.5°  | 974.0  | 978.3  | 981.5  | 988.5  | 1001.4 | 1018.3 | 1042.4 | 1044.4 | 1079.1 | 1109.9 | 1126.1 |
| 10°   | 951.4  | 956.4  | 960.1  | 968.7  | 981.5  | 1000.4 | 1026.5 | 1030.1 | 1075.5 | 1126.1 | 1154.5 |
| 12.5° | 931.0  | 935.9  | 939.2  | 950.5  | 967.3  | 990.4  | 1019.9 | 1024.3 | 1076.8 | 1144.9 | 1185.6 |
| 15°   | 943.5  | 947.5  | 946.1  | 949.5  | 960.8  | 987.2  | 1022.6 | 1026.9 | 1081.8 | 1163.1 | 1216.3 |
| 17.5° | 999.4  | 1002.7 | 991.8  | 979.3  | 974.0  | 993.5  | 1030.8 | 1035.4 | 1091.7 | 1181.9 | 1247.8 |
| 20°   | 1081.8 | 1090.7 | 1066.9 | 1038.8 | 1013.3 | 1015.9 | 1048.1 | 1053.0 | 1105.6 | 1200.8 | 1279.8 |
| 22.5° | 1188.9 | 1195.5 | 1166.4 | 1120.1 | 1073.2 | 1049.0 | 1073.8 | 1076.8 | 1126.4 | 1225.3 | 1314.9 |
| 25°   | 1314.9 | 1318.9 | 1278.6 | 1219.0 | 1151.2 | 1105.6 | 1109.2 | 1114.5 | 1160.8 | 1253.1 | 1346.0 |
| 27.5° | 1437.3 | 1449.8 | 1403.2 | 1330.5 | 1241.1 | 1165.1 | 1157.8 | 1161.2 | 1198.2 | 1268.6 | 1367.5 |
| 30°   | 1582.4 | 1581.5 | 1532.2 | 1447.9 | 1333.4 | 1229.9 | 1203.8 | 1203.1 | 1218.4 | 1276.2 | 1383.0 |
| 32.5° | 1698.2 | 1711.8 | 1663.5 | 1571.6 | 1439.0 | 1297.1 | 1235.5 | 1234.3 | 1233.9 | 1289.4 | 1406.2 |
| 35°   | 1829.8 | 1831.8 | 1787.5 | 1694.9 | 1553.0 | 1381.3 | 1279.8 | 1273.3 | 1265.6 | 1317.8 | 1437.6 |
| 37.5° | 1947.6 | 1956.8 | 1916.1 | 1812.3 | 1665.1 | 1469.1 | 1340.7 | 1336.4 | 1313.2 | 1367.1 | 1487.9 |
| 40°   | 2039.5 | 2046.4 | 2021.9 | 1923.1 | 1775.6 | 1563.6 | 1418.1 | 1410.2 | 1382.0 | 1447.9 | 1555.0 |
| 42.5° | 2069.6 | 2083.8 | 2093.4 | 2044.8 | 1902.6 | 1675.7 | 1513.3 | 1503.5 | 1481.9 | 1570.2 | 1632.4 |
| 45°   | 2071.9 | 2094.4 | 2145.0 | 2147.3 | 2030.3 | 1810.0 | 1624.5 | 1617.5 | 1615.9 | 1727.0 | 1741.2 |
| 47.5° | 2054.4 | 2077.2 | 2162.2 | 2208.1 | 2144.0 | 1945.6 | 1784.9 | 1773.9 | 1774.9 | 1920.8 | 1863.2 |
| 50°   | 2012.1 | 2039.2 | 2142.4 | 2247.2 | 2232.9 | 2086.4 | 1954.1 | 1950.5 | 1971.1 | 2142.0 | 1989.9 |
| 52.5° | 1932.4 | 1965.1 | 2121.8 | 2271.6 | 2299.1 | 2207.8 | 2146.7 | 2136.4 | 2188.3 | 2382.1 | 2128.5 |
| 55°   | 1711.8 | 1761.1 | 2046.7 | 2285.2 | 2361.9 | 2323.9 | 2320.0 | 2338.5 | 2407.3 | 2644.0 | 2281.0 |
| 57.5° | 1596.6 | 1633.7 | 1883.8 | 2287.5 | 2441.3 | 2458.8 | 2522.3 | 2527.0 | 2647.4 | 2922.1 | 2453.2 |
| 60°   | 1533.8 | 1566.6 | 1794.4 | 2272.3 | 2552.1 | 2625.9 | 2729.4 | 2745.9 | 2881.9 | 3223.5 | 2631.8 |
| 62.5° | 1479.0 | 1507.1 | 1740.9 | 2219.7 | 2677.1 | 2873.5 | 2997.6 | 3005.5 | 3148.0 | 3556.2 | 2808.1 |
| 65°   | 1349.6 | 1381.7 | 1633.1 | 2167.2 | 2784.9 | 3183.1 | 3353.4 | 3344.2 | 3431.4 | 3843.2 | 2918.5 |
| 67.5° | 1175.4 | 1216.0 | 1431.6 | 1985.6 | 2838.2 | 3521.4 | 3754.2 | 3742.7 | 3711.2 | 4031.4 | 2950.3 |
| 70°   | 952.8  | 974.6  | 1174.0 | 1671.7 | 2625.5 | 3699.0 | 4070.7 | 4058.5 | 3884.6 | 4056.1 | 2800.1 |
| 71°   | 819.8  | 853.9  | 1022.2 | 1484.9 | 2448.6 | 3644.8 | 4111.4 | 4108.1 | 3884.8 | 3987.7 | 2687.0 |
| 72.5° | 639.9  | 660.8  | 809.5  | 1150.6 | 2081.1 | 3336.6 | 4010.9 | 4023.4 | 3800.6 | 3797.5 | 2453.9 |
| 75°   | 404.8  | 414.0  | 508.0  | 677.3  | 1141.9 | 2363.0 | 3423.9 | 3457.9 | 3374.6 | 3108.3 | 1824.9 |
| 77.5° | 235.1  | 247.0  | 304.3  | 399.1  | 493.4  | 1282.5 | 2449.9 | 2486.9 | 2344.7 | 1711.4 | 747.1  |
| 80°   | 136.9  | 150.1  | 200.4  | 231.9  | 226.6  | 475.9  | 1247.5 | 1310.6 | 1015.3 | 432.3  | 209.7  |
| 82.5° | 76.0   | 85.0   | 140.9  | 141.2  | 120.7  | 155.4  | 392.6  | 410.7  | 289.7  | 174.3  | 85.6   |
| 85°   | 55.3   | 62.5   | 90.9   | 82.3   | 57.9   | 66.8   | 136.6  | 143.2  | 117.1  | 73.4   | 27.8   |
| 87.5° | 19.5   | 27.8   | 50.0   | 39.7   | 15.9   | 13.9   | 39.4   | 32.0   | 29.8   | 20.5   | 6.3    |
| 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°    | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 | 1092.4 |
| 2.5°  | 1098.3 | 1098.9 | 1095.7 | 1089.7 | 1083.7 | 1076.1 | 1067.6 | 1060.9 | 1058.0 | 1057.6 | 1057.3 |
| 5°    | 1110.2 | 1111.9 | 1099.3 | 1080.8 | 1060.2 | 1035.1 | 1013.7 | 989.2  | 982.9  | 973.0  | 975.9  |
| 7.5°  | 1129.4 | 1128.4 | 1103.6 | 1064.2 | 1016.3 | 963.0  | 918.0  | 892.0  | 864.8  | 857.2  | 857.6  |
| 10°   | 1156.8 | 1150.6 | 1103.6 | 1030.5 | 950.5  | 871.4  | 808.6  | 768.9  | 747.4  | 729.6  | 722.9  |
| 12.5° | 1185.9 | 1170.1 | 1093.0 | 983.2  | 865.8  | 768.9  | 701.5  | 647.9  | 633.9  | 619.4  | 619.7  |
| 15°   | 1213.7 | 1187.2 | 1072.2 | 916.8  | 774.6  | 659.4  | 594.0  | 561.9  | 557.6  | 559.3  | 558.9  |
| 17.5° | 1238.9 | 1199.5 | 1040.4 | 842.7  | 668.0  | 565.5  | 530.8  | 533.1  | 544.7  | 553.0  | 554.0  |
| 20°   | 1264.3 | 1206.8 | 993.1  | 743.4  | 567.5  | 508.6  | 510.0  | 528.1  | 545.6  | 556.9  | 558.6  |
| 22.5° | 1288.4 | 1210.1 | 937.5  | 647.6  | 494.8  | 484.5  | 504.0  | 523.5  | 540.7  | 551.6  | 553.3  |
| 25°   | 1304.3 | 1202.5 | 858.8  | 547.3  | 459.0  | 475.9  | 496.4  | 512.9  | 527.5  | 538.7  | 541.4  |
| 27.5° | 1308.6 | 1178.0 | 761.3  | 466.3  | 442.5  | 467.6  | 486.5  | 498.7  | 510.0  | 520.6  | 522.5  |
| 30°   | 1306.3 | 1141.9 | 654.1  | 418.6  | 432.9  | 458.0  | 472.6  | 481.6  | 495.1  | 503.3  | 505.0  |
| 32.5° | 1302.7 | 1099.9 | 542.4  | 393.3  | 425.0  | 449.1  | 457.7  | 465.7  | 465.3  | 462.0  | 464.3  |
| 35°   | 1304.0 | 1049.7 | 451.8  | 378.0  | 418.1  | 442.5  | 449.8  | 439.8  | 411.4  | 410.1  | 408.7  |
| 37.5° | 1311.0 | 1000.0 | 385.9  | 367.4  | 414.4  | 441.5  | 445.5  | 399.8  | 374.7  | 363.1  | 360.1  |
| 40°   | 1328.8 | 942.2  | 342.6  | 359.4  | 414.0  | 449.1  | 426.0  | 379.6  | 331.4  | 308.9  | 307.2  |
| 42.5° | 1352.6 | 885.3  | 316.1  | 354.5  | 418.1  | 460.7  | 418.1  | 351.2  | 298.6  | 285.4  | 283.4  |
| 45°   | 1388.0 | 820.1  | 301.6  | 352.2  | 423.9  | 465.0  | 415.4  | 330.3  | 285.4  | 274.8  | 274.8  |
| 47.5° | 1428.0 | 758.0  | 293.7  | 350.5  | 431.6  | 462.0  | 391.9  | 323.8  | 279.1  | 280.5  | 286.7  |
| 50°   | 1467.7 | 704.1  | 287.7  | 346.9  | 438.2  | 460.4  | 382.3  | 323.4  | 280.8  | 297.6  | 308.9  |
| 52.5° | 1513.6 | 666.1  | 280.5  | 340.9  | 438.2  | 449.8  | 379.3  | 330.0  | 285.4  | 290.4  | 295.4  |
| 55°   | 1569.2 | 654.1  | 271.2  | 328.1  | 430.3  | 423.3  | 377.7  | 339.7  | 288.7  | 277.1  | 279.1  |
| 57.5° | 1642.6 | 673.3  | 262.2  | 311.8  | 412.1  | 395.9  | 377.0  | 342.3  | 281.1  | 271.5  | 269.5  |
| 60°   | 1728.0 | 711.4  | 259.6  | 295.4  | 387.3  | 372.4  | 373.1  | 334.7  | 270.5  | 260.6  | 262.2  |
| 62.5° | 1787.8 | 734.2  | 257.9  | 282.7  | 360.1  | 346.6  | 363.5  | 325.4  | 265.9  | 257.3  | 258.9  |
| 65°   | 1787.8 | 706.4  | 242.7  | 263.6  | 325.1  | 315.5  | 351.9  | 313.9  | 260.0  | 250.0  | 248.3  |
| 67.5° | 1720.0 | 625.4  | 219.6  | 234.8  | 286.4  | 280.1  | 335.6  | 300.0  | 251.0  | 243.4  | 239.4  |
| 70°   | 1543.4 | 474.2  | 190.5  | 201.1  | 237.4  | 243.0  | 314.9  | 281.1  | 236.2  | 226.9  | 220.9  |
| 71°   | 1465.7 | 413.1  | 178.3  | 183.8  | 218.6  | 226.9  | 304.9  | 273.2  | 229.5  | 216.3  | 205.7  |
| 72.5° | 1315.9 | 347.9  | 159.7  | 162.1  | 186.9  | 201.8  | 284.1  | 257.9  | 217.0  | 198.1  | 186.2  |
| 75°   | 999.8  | 254.0  | 128.7  | 127.3  | 138.3  | 160.0  | 240.4  | 229.8  | 190.2  | 164.7  | 157.8  |
| 77.5° | 431.9  | 138.3  | 96.2   | 97.2   | 93.9   | 121.4  | 189.1  | 197.5  | 163.1  | 134.0  | 127.7  |
| 80°   | 130.9  | 79.7   | 65.9   | 67.1   | 62.8   | 81.3   | 133.3  | 154.7  | 130.9  | 104.2  | 95.5   |
| 82.5° | 67.1   | 47.6   | 45.0   | 44.3   | 40.0   | 46.0   | 80.7   | 105.8  | 93.6   | 65.2   | 57.5   |
| 85°   | 29.1   | 25.5   | 22.1   | 21.5   | 18.8   | 16.6   | 28.8   | 52.9   | 49.6   | 36.4   | 34.7   |
| 87.5° | 7.3    | 6.6    | 4.3    | 4.0    | 2.4    | 0.3    | 0.0    | 0.0    | 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)