

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: P317835

Luminaire Tested: **GAN-SA1B-760-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1B-760-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6117 lumens  
Efficiency: N/A  
Efficacy: 139.0 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

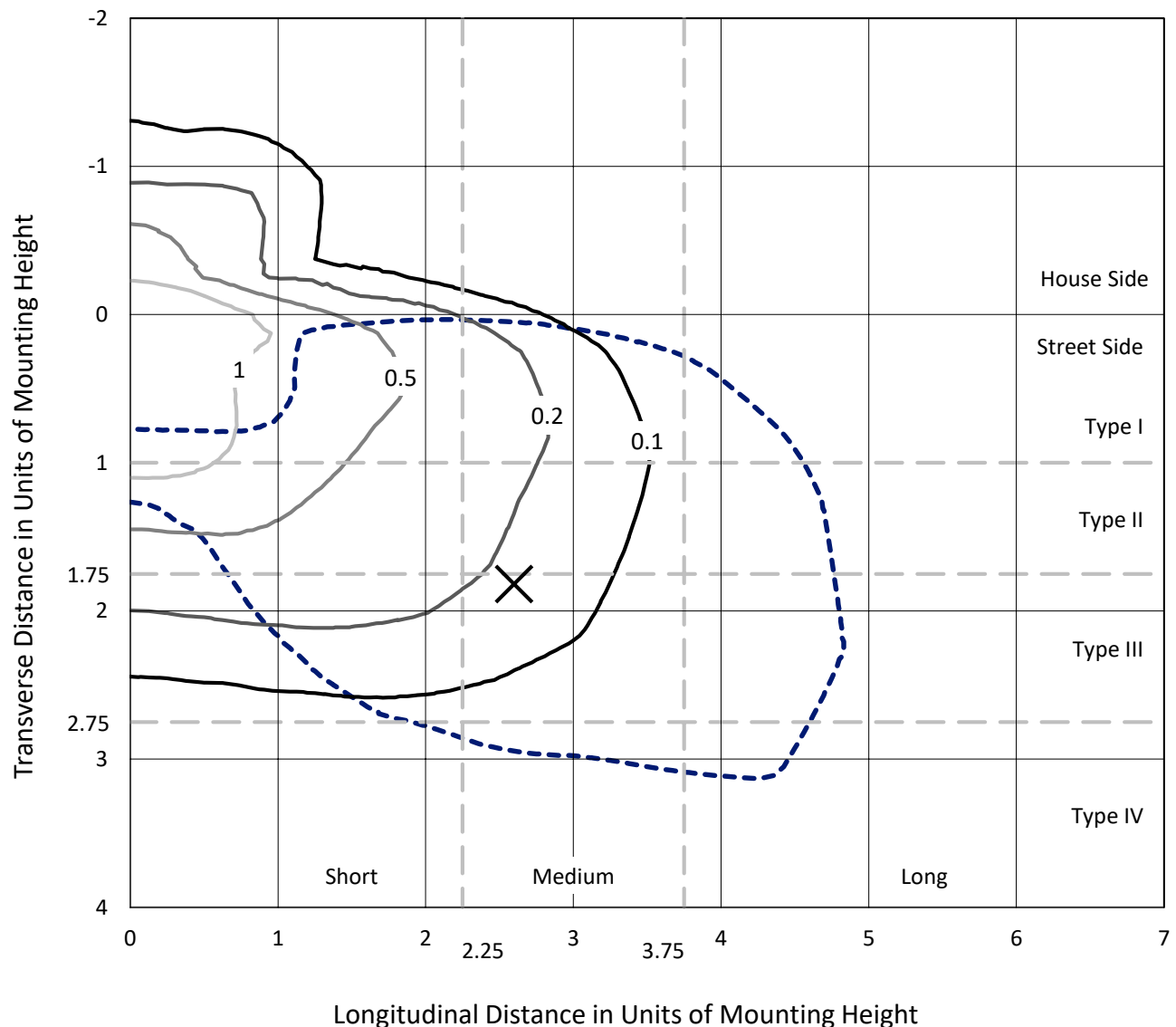
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

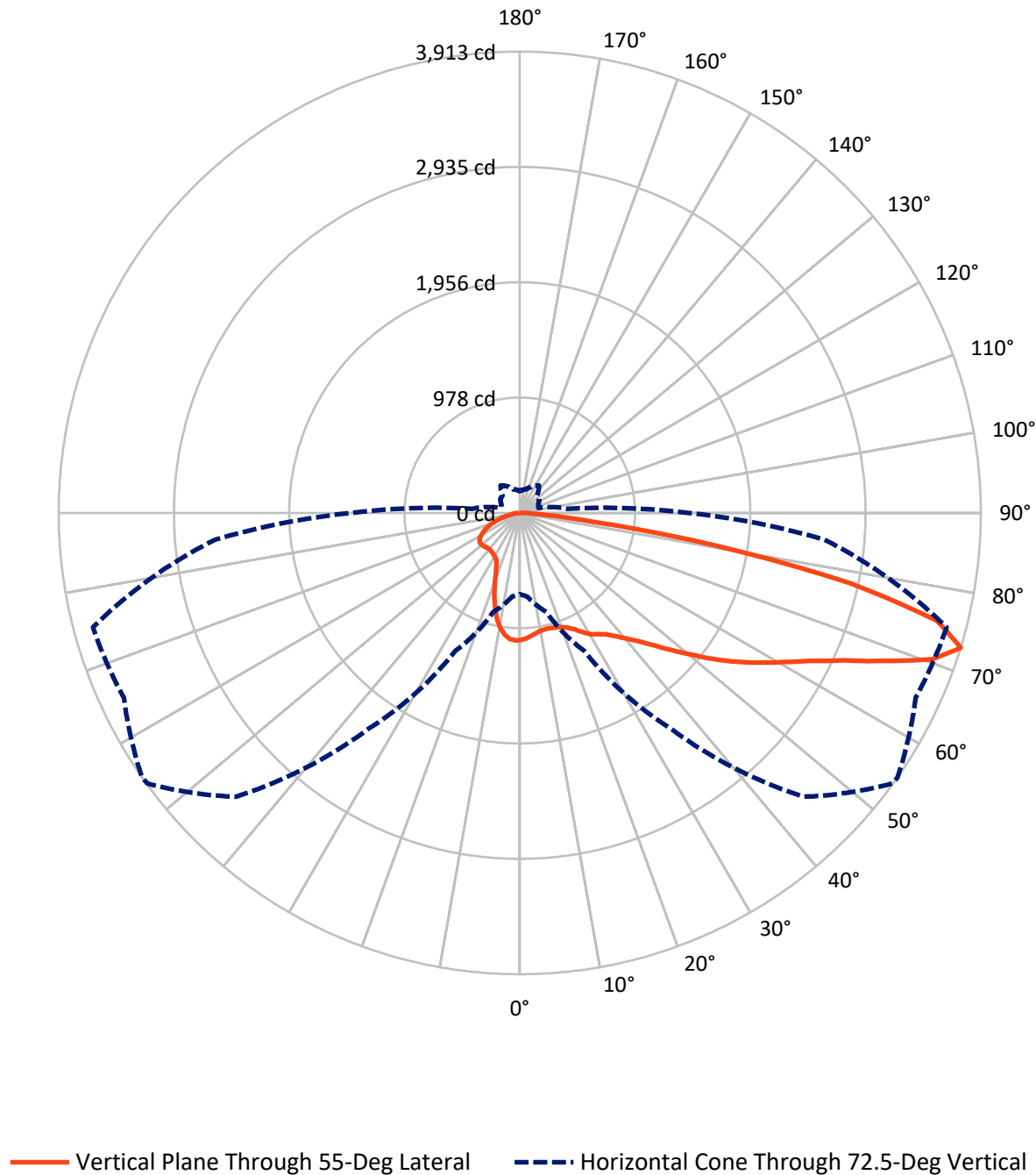
✕ Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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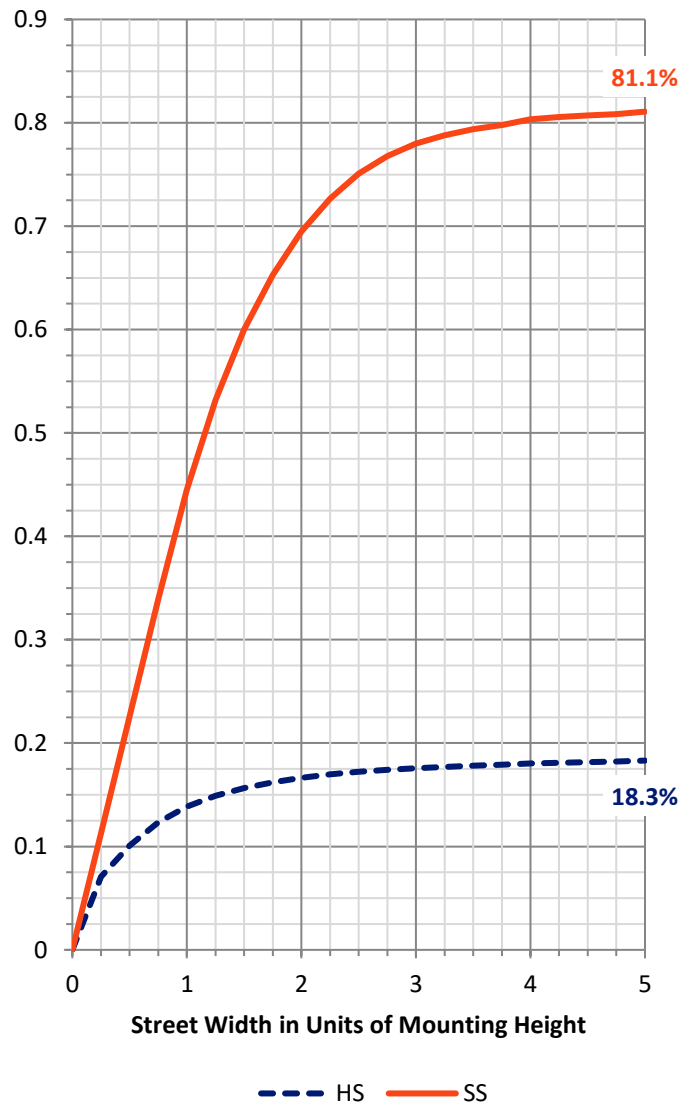
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1136.9   | 0.0    | 1136.9 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 4980.1   | 0.0    | 4980.1 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 6117.0   | 0.0    | 6117.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.6   | 1.6       |
| 10°-20°   | 259.9  | 4.2       |
| 20°-30°   | 428.5  | 7.0       |
| 30°-40°   | 633.9  | 10.4      |
| 40°-50°   | 884.8  | 14.5      |
| 50°-60°   | 1152.1 | 18.8      |
| 60°-70°   | 1415.9 | 23.1      |
| 70°-80°   | 1109.9 | 18.1      |
| 80°-90°   | 134.3  | 2.2       |
| 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°    | 6117.0 | 100.0     |
| 0°-180°   | 6117.0 | 100.0     |

**Coefficient of Utilization**



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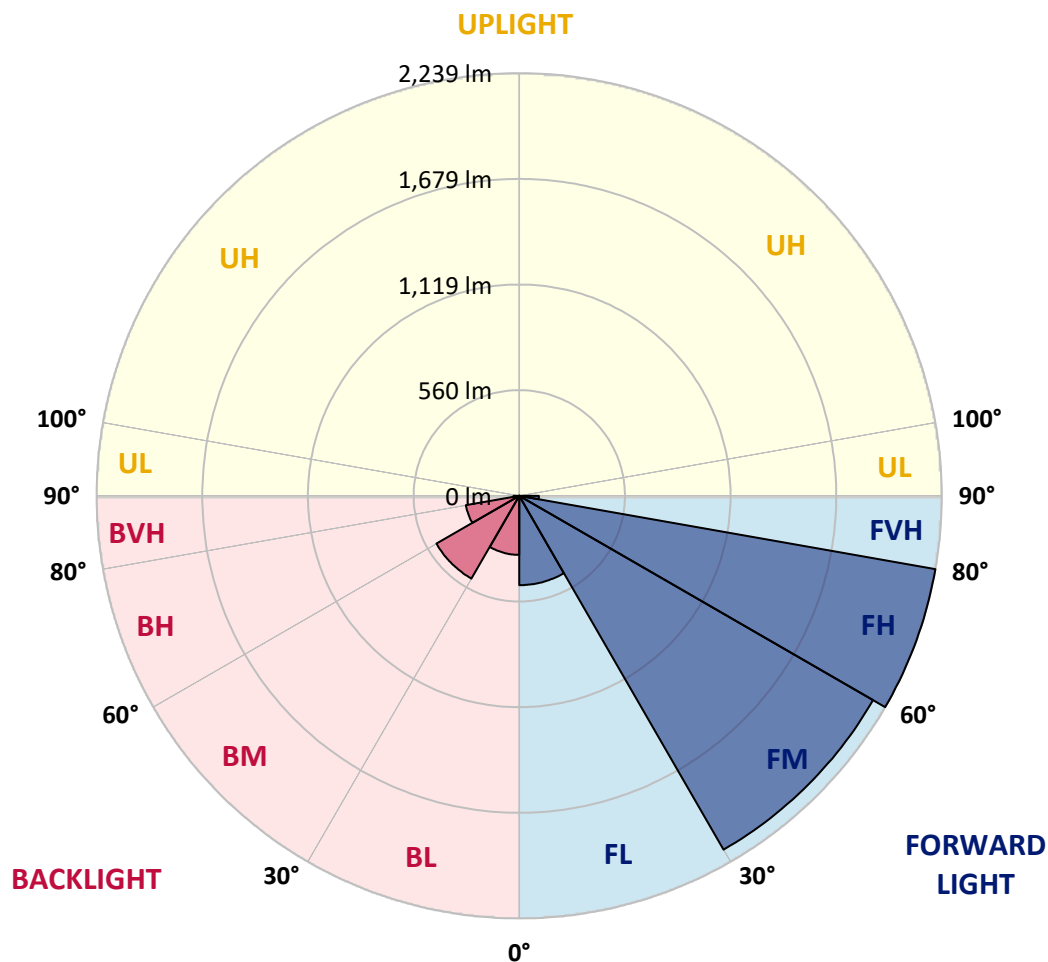
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 473.3  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 2164.3 | 35.4      |                         |      |         |
| FH   | (60°-80°)   | 2238.6 | 36.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 103.8  | 1.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 312.8  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 506.5  | 8.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 287.1  | 4.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 30.5   | 0.5       |                         |      | 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°    | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 |
| 2.5°  | 1043.8 | 1041.3 | 1044.4 | 1048.7 | 1053.5 | 1059.9 | 1063.6 | 1065.3 | 1071.7 | 1074.2 | 1079.5 |
| 5°    | 995.4  | 994.2  | 999.4  | 1006.8 | 1017.3 | 1032.2 | 1044.2 | 1046.5 | 1063.4 | 1075.4 | 1086.3 |
| 7.5°  | 960.3  | 960.3  | 966.3  | 975.2  | 987.0  | 1007.0 | 1023.9 | 1027.0 | 1055.8 | 1081.6 | 1101.8 |
| 10°   | 932.4  | 933.5  | 940.5  | 951.0  | 964.9  | 986.1  | 1008.7 | 1012.2 | 1053.7 | 1096.1 | 1128.3 |
| 12.5° | 913.8  | 916.3  | 922.7  | 932.2  | 949.4  | 975.2  | 1003.7 | 1008.5 | 1058.0 | 1116.7 | 1160.1 |
| 15°   | 925.6  | 929.7  | 930.4  | 934.3  | 943.8  | 971.9  | 1006.6 | 1011.6 | 1067.3 | 1137.8 | 1196.3 |
| 17.5° | 977.3  | 978.7  | 972.3  | 964.0  | 959.5  | 977.5  | 1015.3 | 1020.4 | 1078.5 | 1158.7 | 1231.0 |
| 20°   | 1055.8 | 1054.9 | 1041.1 | 1018.8 | 995.6  | 998.5  | 1029.5 | 1034.9 | 1093.6 | 1177.0 | 1265.7 |
| 22.5° | 1154.9 | 1152.0 | 1130.8 | 1089.7 | 1050.2 | 1033.7 | 1054.5 | 1059.1 | 1116.3 | 1203.3 | 1302.9 |
| 25°   | 1275.2 | 1268.8 | 1240.7 | 1185.5 | 1127.5 | 1084.9 | 1092.1 | 1096.5 | 1149.4 | 1232.6 | 1337.0 |
| 27.5° | 1402.0 | 1395.6 | 1359.9 | 1293.2 | 1215.9 | 1149.6 | 1144.0 | 1147.7 | 1187.0 | 1254.3 | 1362.2 |
| 30°   | 1534.7 | 1527.9 | 1495.2 | 1420.4 | 1309.7 | 1216.5 | 1192.3 | 1193.8 | 1213.4 | 1266.1 | 1382.8 |
| 32.5° | 1667.9 | 1661.5 | 1625.0 | 1538.2 | 1411.5 | 1288.4 | 1227.3 | 1225.4 | 1229.3 | 1278.3 | 1406.2 |
| 35°   | 1803.1 | 1805.5 | 1762.8 | 1666.7 | 1524.4 | 1368.4 | 1268.6 | 1264.6 | 1256.0 | 1303.3 | 1439.2 |
| 37.5° | 1947.7 | 1946.0 | 1890.7 | 1790.3 | 1642.3 | 1455.1 | 1327.9 | 1327.3 | 1297.3 | 1350.6 | 1491.1 |
| 40°   | 2044.4 | 2045.4 | 2011.7 | 1916.7 | 1761.5 | 1551.2 | 1403.9 | 1402.5 | 1363.2 | 1421.5 | 1559.1 |
| 42.5° | 2082.2 | 2089.0 | 2097.7 | 2037.4 | 1886.3 | 1662.6 | 1494.6 | 1492.5 | 1455.1 | 1523.1 | 1639.0 |
| 45°   | 2084.9 | 2098.5 | 2152.2 | 2144.6 | 2012.8 | 1790.1 | 1610.5 | 1604.7 | 1577.9 | 1658.2 | 1734.5 |
| 47.5° | 2061.7 | 2075.8 | 2165.0 | 2208.4 | 2125.8 | 1924.6 | 1746.0 | 1741.5 | 1718.4 | 1827.2 | 1837.8 |
| 50°   | 2011.1 | 2024.6 | 2138.6 | 2239.6 | 2218.8 | 2053.9 | 1902.2 | 1890.3 | 1877.9 | 2022.5 | 1956.0 |
| 52.5° | 1916.3 | 1942.1 | 2103.3 | 2247.1 | 2274.3 | 2168.8 | 2066.5 | 2058.6 | 2065.5 | 2228.5 | 2074.3 |
| 55°   | 1691.7 | 1720.6 | 2012.2 | 2240.9 | 2315.5 | 2265.3 | 2230.7 | 2230.3 | 2265.7 | 2444.6 | 2201.4 |
| 57.5° | 1565.9 | 1586.3 | 1826.6 | 2230.3 | 2364.2 | 2361.1 | 2393.3 | 2397.3 | 2466.1 | 2679.9 | 2334.5 |
| 60°   | 1494.8 | 1516.3 | 1732.6 | 2191.3 | 2439.8 | 2485.1 | 2559.3 | 2567.1 | 2669.8 | 2940.4 | 2494.6 |
| 62.5° | 1430.1 | 1453.7 | 1674.4 | 2111.7 | 2528.9 | 2662.4 | 2758.0 | 2765.0 | 2885.5 | 3208.2 | 2649.3 |
| 65°   | 1319.6 | 1346.3 | 1589.0 | 2059.5 | 2609.9 | 2893.5 | 3010.7 | 3015.4 | 3133.2 | 3488.8 | 2767.7 |
| 67.5° | 1163.4 | 1187.8 | 1428.1 | 1944.0 | 2669.8 | 3174.3 | 3346.6 | 3349.3 | 3378.9 | 3686.9 | 2828.3 |
| 70°   | 981.0  | 990.3  | 1198.7 | 1705.5 | 2598.9 | 3436.9 | 3714.8 | 3715.4 | 3602.8 | 3813.8 | 2818.3 |
| 72.5° | 689.2  | 711.1  | 870.2  | 1291.1 | 2233.4 | 3404.9 | 3905.9 | 3912.9 | 3707.0 | 3749.7 | 2593.1 |
| 75°   | 422.7  | 445.9  | 545.9  | 782.4  | 1416.9 | 2677.8 | 3608.8 | 3657.6 | 3511.7 | 3343.3 | 2118.4 |
| 77.5° | 282.6  | 291.3  | 356.2  | 456.2  | 641.9  | 1540.7 | 2774.5 | 2866.3 | 2917.3 | 2438.2 | 1354.7 |
| 80°   | 157.6  | 174.2  | 236.2  | 283.5  | 285.5  | 612.2  | 1663.6 | 1685.1 | 1623.1 | 970.9  | 418.0  |
| 82.5° | 83.5   | 92.6   | 157.6  | 166.5  | 155.8  | 205.0  | 620.0  | 620.7  | 518.6  | 260.3  | 124.2  |
| 85°   | 64.7   | 72.3   | 108.1  | 101.7  | 79.5   | 90.9   | 204.5  | 215.7  | 176.4  | 106.6  | 40.5   |
| 87.5° | 32.2   | 40.1   | 73.3   | 64.5   | 31.2   | 26.0   | 73.1   | 78.1   | 69.6   | 41.7   | 14.7   |
| 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°    | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 | 1078.9 |
| 2.5°  | 1081.6 | 1083.5 | 1085.7 | 1083.2 | 1082.4 | 1079.1 | 1073.5 | 1072.3 | 1069.4 | 1069.6 | 1071.3 |
| 5°    | 1091.1 | 1094.2 | 1093.0 | 1083.5 | 1072.1 | 1056.2 | 1039.7 | 1025.6 | 1016.3 | 1015.7 | 1015.1 |
| 7.5°  | 1109.3 | 1111.3 | 1101.6 | 1074.6 | 1042.8 | 1006.0 | 971.3  | 940.9  | 922.5  | 918.0  | 916.9  |
| 10°   | 1137.8 | 1137.4 | 1110.7 | 1056.2 | 992.8  | 927.1  | 871.3  | 829.1  | 804.5  | 797.3  | 795.4  |
| 12.5° | 1169.6 | 1164.9 | 1113.8 | 1022.7 | 922.1  | 831.0  | 760.3  | 713.4  | 687.8  | 679.5  | 677.5  |
| 15°   | 1202.5 | 1190.7 | 1106.2 | 972.7  | 835.3  | 727.5  | 653.3  | 609.9  | 596.1  | 591.5  | 590.7  |
| 17.5° | 1233.0 | 1210.3 | 1084.3 | 904.9  | 736.4  | 624.4  | 566.5  | 549.2  | 552.5  | 558.5  | 558.7  |
| 20°   | 1263.0 | 1223.5 | 1049.2 | 819.4  | 632.0  | 539.5  | 519.8  | 532.6  | 548.3  | 560.5  | 562.2  |
| 22.5° | 1292.5 | 1232.8 | 1003.9 | 720.6  | 538.6  | 491.7  | 505.6  | 528.9  | 546.9  | 560.1  | 562.4  |
| 25°   | 1317.3 | 1235.1 | 941.5  | 615.3  | 473.8  | 473.8  | 498.8  | 520.9  | 538.6  | 551.6  | 553.9  |
| 27.5° | 1326.4 | 1219.8 | 853.5  | 517.8  | 441.1  | 465.5  | 489.2  | 507.6  | 522.7  | 536.6  | 539.0  |
| 30°   | 1329.9 | 1191.5 | 751.8  | 439.5  | 427.7  | 456.6  | 476.4  | 492.1  | 506.4  | 519.4  | 521.7  |
| 32.5° | 1330.6 | 1157.4 | 644.0  | 395.0  | 418.4  | 447.3  | 460.5  | 474.4  | 489.7  | 494.8  | 495.7  |
| 35°   | 1334.5 | 1117.1 | 530.4  | 372.3  | 409.7  | 438.6  | 449.2  | 459.1  | 434.3  | 436.1  | 437.8  |
| 37.5° | 1345.8 | 1077.3 | 435.3  | 359.5  | 404.1  | 434.1  | 446.7  | 410.7  | 391.3  | 386.8  | 386.2  |
| 40°   | 1367.1 | 1034.7 | 364.9  | 349.2  | 402.1  | 436.4  | 430.8  | 383.5  | 350.0  | 325.0  | 321.3  |
| 42.5° | 1396.7 | 988.8  | 319.8  | 342.3  | 403.5  | 447.3  | 408.7  | 357.2  | 301.6  | 285.5  | 283.5  |
| 45°   | 1429.9 | 940.7  | 295.4  | 337.6  | 408.5  | 455.8  | 404.1  | 322.3  | 279.1  | 266.9  | 265.9  |
| 47.5° | 1462.2 | 881.8  | 282.8  | 335.5  | 415.3  | 449.0  | 384.9  | 311.6  | 268.4  | 262.0  | 262.6  |
| 50°   | 1499.1 | 828.7  | 275.2  | 333.3  | 421.3  | 444.6  | 363.2  | 306.0  | 264.3  | 272.1  | 280.4  |
| 52.5° | 1530.3 | 773.7  | 268.4  | 328.7  | 423.5  | 437.0  | 357.6  | 307.0  | 264.3  | 279.3  | 287.2  |
| 55°   | 1567.3 | 732.2  | 260.5  | 319.2  | 419.2  | 415.3  | 353.7  | 313.2  | 267.4  | 257.8  | 258.7  |
| 57.5° | 1615.1 | 718.6  | 251.9  | 304.3  | 404.7  | 383.7  | 351.9  | 319.2  | 265.5  | 259.5  | 261.6  |
| 60°   | 1681.2 | 733.0  | 248.3  | 284.9  | 382.2  | 358.9  | 352.1  | 316.1  | 252.5  | 242.1  | 242.4  |
| 62.5° | 1744.2 | 749.2  | 248.1  | 272.7  | 354.5  | 336.8  | 347.3  | 306.0  | 245.9  | 239.9  | 242.1  |
| 65°   | 1764.8 | 732.8  | 238.2  | 259.1  | 323.3  | 310.3  | 338.6  | 295.2  | 240.9  | 231.8  | 231.4  |
| 67.5° | 1737.2 | 682.2  | 218.2  | 237.0  | 287.6  | 279.5  | 327.3  | 282.4  | 233.1  | 225.6  | 224.4  |
| 70°   | 1654.9 | 569.2  | 193.4  | 207.8  | 246.9  | 244.8  | 309.3  | 267.6  | 222.5  | 216.1  | 210.7  |
| 72.5° | 1433.7 | 405.6  | 163.0  | 172.9  | 201.0  | 207.6  | 284.5  | 248.1  | 207.6  | 193.8  | 185.5  |
| 75°   | 1177.5 | 300.2  | 133.9  | 135.9  | 152.7  | 170.7  | 250.4  | 225.4  | 190.1  | 166.5  | 160.1  |
| 77.5° | 721.1  | 183.7  | 106.6  | 107.4  | 109.5  | 136.2  | 206.2  | 200.0  | 167.8  | 138.8  | 134.3  |
| 80°   | 233.5  | 100.2  | 77.1   | 81.0   | 74.8   | 99.8   | 159.5  | 170.2  | 144.0  | 116.1  | 111.2  |
| 82.5° | 88.8   | 58.5   | 52.1   | 54.8   | 51.9   | 66.9   | 116.3  | 136.4  | 118.0  | 95.5   | 77.7   |
| 85°   | 43.0   | 33.1   | 30.8   | 34.5   | 32.0   | 34.3   | 74.4   | 100.4  | 89.5   | 62.2   | 57.9   |
| 87.5° | 15.3   | 14.7   | 11.8   | 15.9   | 13.6   | 12.2   | 22.7   | 50.6   | 59.1   | 42.8   | 38.2   |
| 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)