

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: P451173

Luminaire Tested: **GLAN-SA2A-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8357 lumens  
Efficiency: N/A  
Efficacy: 132.7 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 (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

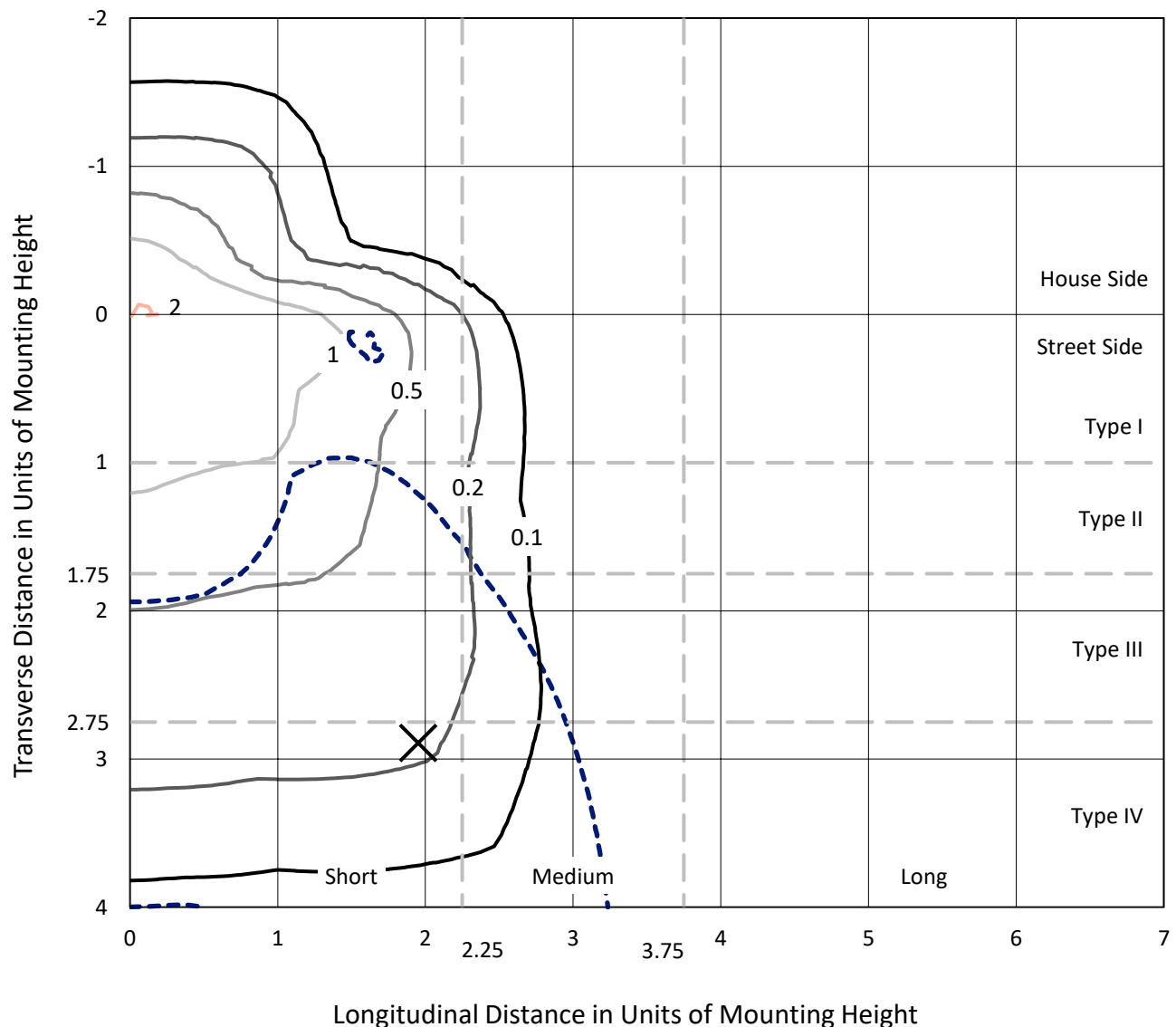


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

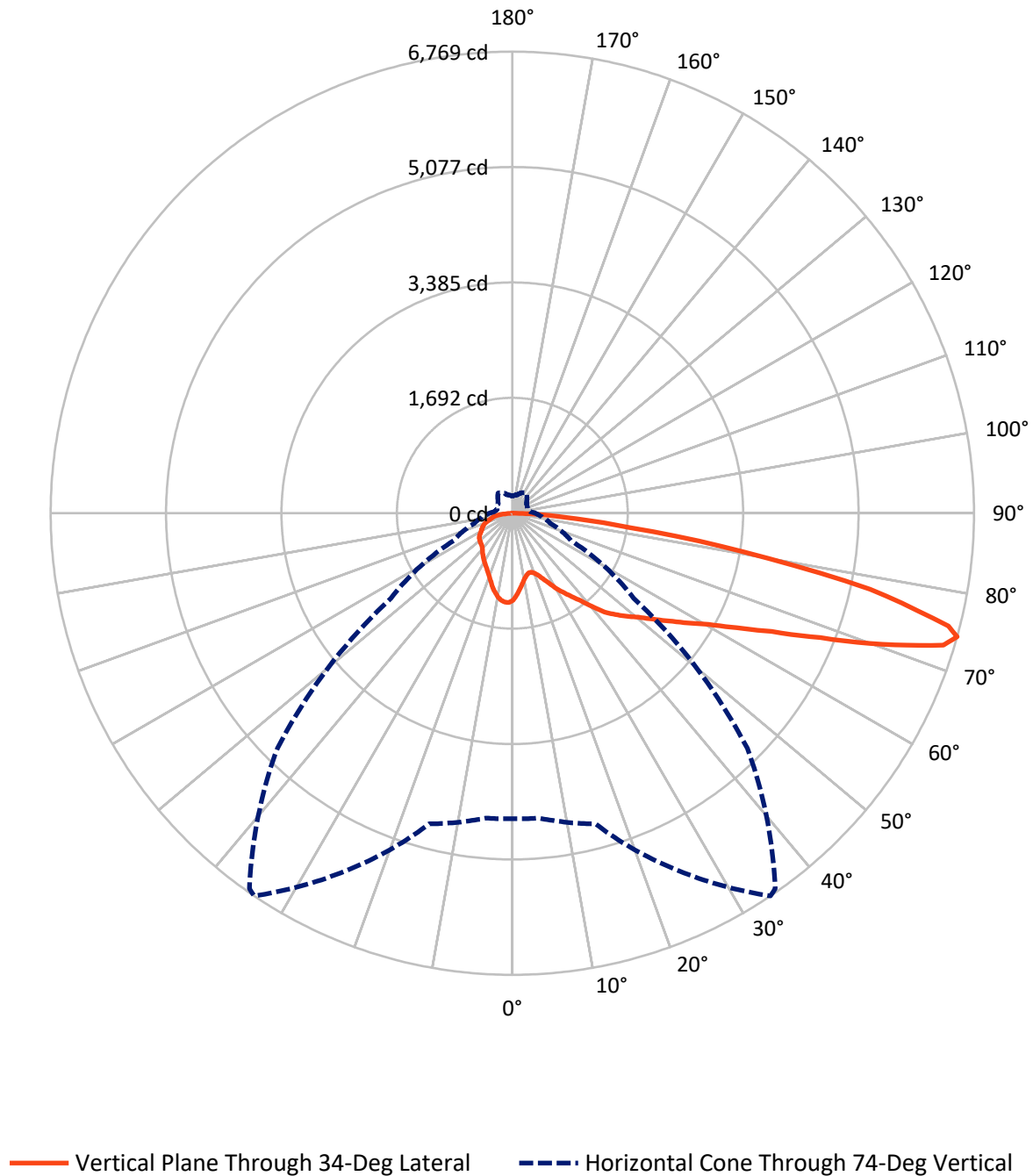


Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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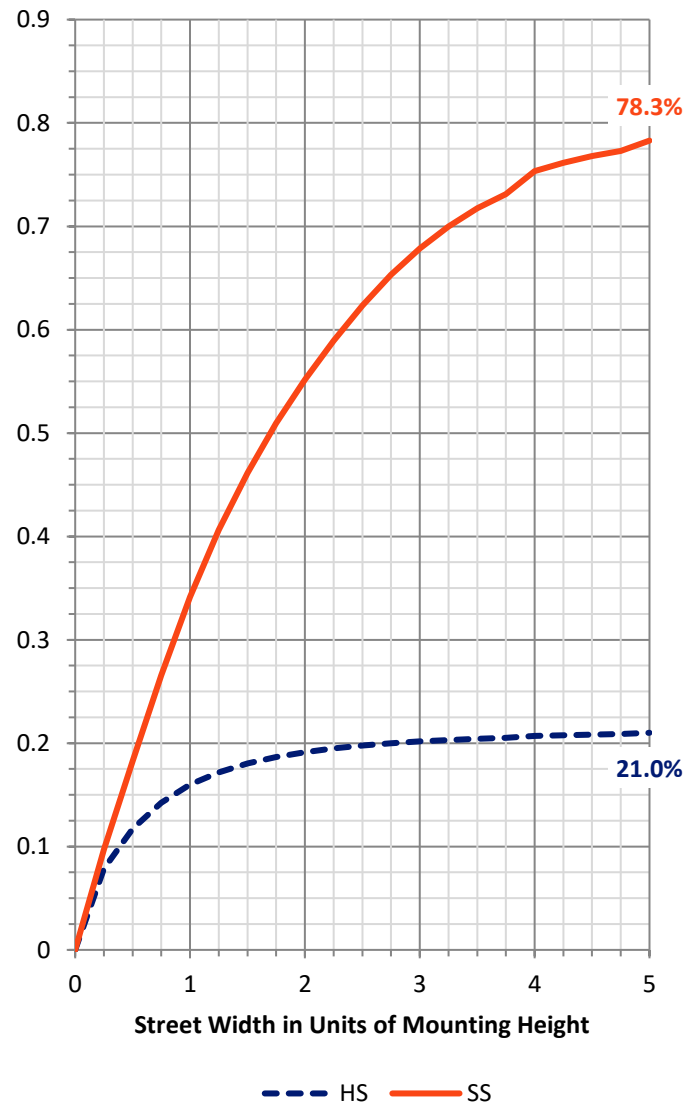
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1778.4   | 0.0    | 1778.4 |
|                    | % Fixture | 21.3     | 0.0    | 21.3   |
| <b>Street Side</b> | Lumens    | 6578.6   | 0.0    | 6578.6 |
|                    | % Fixture | 78.7     | 0.0    | 78.7   |
| <b>Total</b>       | Lumens    | 8357.0   | 0.0    | 8357.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.0  | 1.4       |
| 10°-20°   | 317.7  | 3.8       |
| 20°-30°   | 523.7  | 6.3       |
| 30°-40°   | 784.5  | 9.4       |
| 40°-50°   | 1140.5 | 13.6      |
| 50°-60°   | 1592.9 | 19.1      |
| 60°-70°   | 1994.3 | 23.9      |
| 70°-80°   | 1649.1 | 19.7      |
| 80°-90°   | 238.3  | 2.9       |
| 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°    | 8357.0 | 100.0     |
| 0°-180°   | 8357.0 | 100.0     |

**Coefficient of Utilization**



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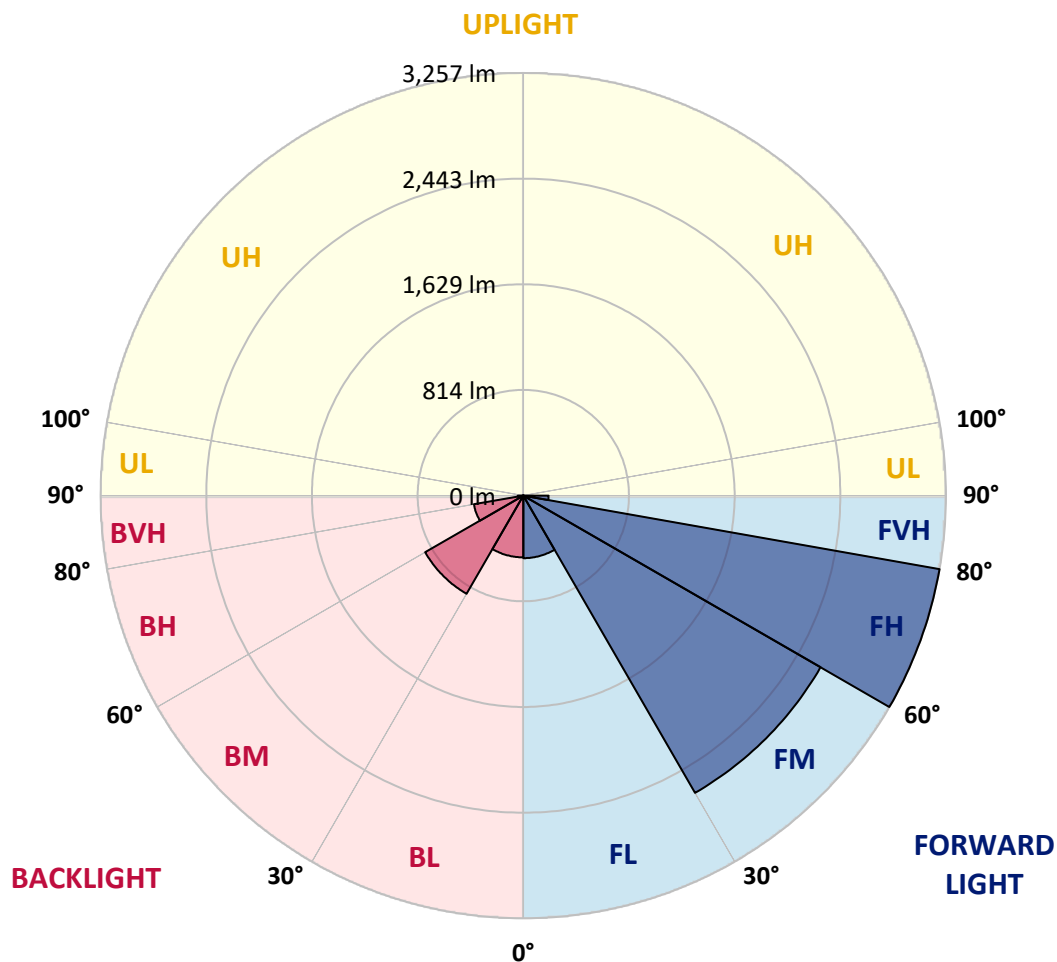
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 481.7  | 5.8       |                         |      |         |
| FM   | (30°-60°)   | 2644.5 | 31.6      |                         |      |         |
| FH   | (60°-80°)   | 3257.1 | 39.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 195.2  | 2.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 475.7  | 5.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 873.4  | 10.5      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 386.3  | 4.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 43.1   | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 |
| 2.5°  | 1179.2 | 1185.2 | 1188.4 | 1200.0 | 1202.8 | 1206.5 | 1216.2 | 1229.2 | 1245.9 | 1260.7 | 1273.6 |
| 5°    | 1081.0 | 1090.3 | 1095.9 | 1106.0 | 1125.9 | 1127.8 | 1153.7 | 1183.4 | 1217.2 | 1248.6 | 1274.6 |
| 7.5°  | 988.0  | 998.2  | 1002.8 | 1021.3 | 1047.7 | 1051.9 | 1089.8 | 1136.6 | 1193.1 | 1240.8 | 1280.6 |
| 10°   | 918.1  | 923.2  | 933.3  | 947.2  | 978.7  | 981.5  | 1031.0 | 1093.5 | 1166.7 | 1237.1 | 1290.8 |
| 12.5° | 880.1  | 882.9  | 885.2  | 900.0  | 931.0  | 935.2  | 987.1  | 1057.9 | 1145.9 | 1239.8 | 1307.4 |
| 15°   | 885.7  | 886.6  | 876.4  | 879.2  | 904.2  | 910.2  | 961.6  | 1034.3 | 1132.9 | 1246.8 | 1332.4 |
| 17.5° | 932.4  | 929.2  | 904.2  | 891.2  | 908.8  | 911.6  | 956.5  | 1025.0 | 1126.9 | 1259.7 | 1358.4 |
| 20°   | 1006.0 | 1001.4 | 958.4  | 929.6  | 939.8  | 942.1  | 973.2  | 1032.0 | 1132.9 | 1281.0 | 1398.6 |
| 22.5° | 1097.7 | 1095.9 | 1030.6 | 995.9  | 995.4  | 995.4  | 1011.6 | 1057.0 | 1150.9 | 1310.2 | 1440.8 |
| 25°   | 1225.9 | 1216.2 | 1131.0 | 1086.1 | 1073.6 | 1072.7 | 1070.9 | 1098.2 | 1174.1 | 1341.2 | 1490.8 |
| 27.5° | 1357.4 | 1340.8 | 1264.8 | 1195.9 | 1169.0 | 1165.8 | 1153.7 | 1156.5 | 1203.7 | 1376.4 | 1547.7 |
| 30°   | 1475.5 | 1464.8 | 1393.5 | 1317.2 | 1285.2 | 1277.8 | 1244.5 | 1229.2 | 1253.3 | 1439.8 | 1638.5 |
| 32.5° | 1565.8 | 1559.3 | 1503.7 | 1434.3 | 1387.1 | 1385.7 | 1337.1 | 1324.6 | 1330.6 | 1516.7 | 1742.2 |
| 35°   | 1638.9 | 1641.2 | 1613.0 | 1552.8 | 1498.6 | 1490.8 | 1458.4 | 1442.6 | 1425.0 | 1627.8 | 1872.7 |
| 37.5° | 1738.9 | 1744.0 | 1742.2 | 1690.3 | 1624.1 | 1626.0 | 1618.5 | 1592.6 | 1545.9 | 1751.9 | 2017.6 |
| 40°   | 1849.1 | 1852.8 | 1852.3 | 1832.4 | 1797.7 | 1799.6 | 1796.8 | 1767.2 | 1697.3 | 1909.8 | 2178.7 |
| 42.5° | 2001.4 | 1983.8 | 1938.0 | 1957.9 | 1978.3 | 1987.1 | 2006.1 | 1977.8 | 1882.0 | 2078.3 | 2330.1 |
| 45°   | 2171.8 | 2138.5 | 2034.8 | 2044.0 | 2119.5 | 2136.1 | 2240.8 | 2201.9 | 2082.4 | 2271.8 | 2508.4 |
| 47.5° | 2279.2 | 2246.3 | 2158.8 | 2157.0 | 2257.0 | 2273.2 | 2458.4 | 2444.0 | 2264.9 | 2480.6 | 2726.0 |
| 50°   | 2375.0 | 2370.4 | 2271.8 | 2295.4 | 2393.1 | 2417.2 | 2695.4 | 2682.0 | 2446.8 | 2726.9 | 2963.0 |
| 52.5° | 2517.2 | 2479.7 | 2401.0 | 2449.6 | 2578.7 | 2610.2 | 2930.6 | 2891.3 | 2613.9 | 2944.5 | 3193.1 |
| 55°   | 2581.1 | 2572.3 | 2567.6 | 2609.8 | 2787.1 | 2809.8 | 3159.3 | 3069.0 | 2756.5 | 3128.8 | 3368.1 |
| 57.5° | 2751.9 | 2735.7 | 2781.5 | 2810.2 | 3032.5 | 3067.2 | 3398.2 | 3254.7 | 2881.5 | 3275.1 | 3453.3 |
| 60°   | 2973.2 | 2964.4 | 3006.5 | 3058.4 | 3306.5 | 3359.3 | 3670.4 | 3413.0 | 2982.0 | 3348.7 | 3406.5 |
| 62.5° | 3303.8 | 3302.8 | 3295.0 | 3406.1 | 3695.0 | 3743.6 | 3982.9 | 3567.2 | 2997.7 | 3293.6 | 3164.9 |
| 65°   | 3777.8 | 3761.2 | 3692.7 | 3814.0 | 4178.3 | 4235.3 | 4308.4 | 3653.3 | 2902.8 | 3010.7 | 2664.9 |
| 67.5° | 4273.7 | 4272.8 | 4217.2 | 4374.6 | 4872.3 | 4931.1 | 4715.4 | 3634.3 | 2639.4 | 2438.9 | 1892.6 |
| 70°   | 4684.8 | 4664.9 | 4735.7 | 5155.2 | 5758.9 | 5827.0 | 5071.4 | 3410.7 | 2102.4 | 1610.7 | 1124.6 |
| 72.5° | 4783.4 | 4784.3 | 4931.6 | 5757.0 | 6610.3 | 6621.0 | 5199.6 | 2764.4 | 1407.0 | 888.4  | 562.5  |
| 74°   | 4479.7 | 4487.6 | 4715.8 | 5787.1 | 6769.1 | 6721.0 | 4871.8 | 2172.7 | 951.4  | 580.1  | 405.6  |
| 75°   | 4089.0 | 4039.4 | 4369.5 | 5586.7 | 6604.3 | 6552.4 | 4488.0 | 1743.5 | 725.9  | 463.4  | 355.1  |
| 77.5° | 2186.1 | 2236.6 | 2745.9 | 4169.1 | 5365.4 | 5305.6 | 3043.1 | 836.1  | 392.1  | 322.7  | 255.6  |
| 80°   | 778.3  | 858.3  | 1206.5 | 2181.5 | 3439.9 | 3458.4 | 1452.3 | 383.3  | 275.9  | 238.0  | 180.6  |
| 82.5° | 317.6  | 326.4  | 518.1  | 968.1  | 1746.8 | 1763.5 | 593.1  | 227.8  | 197.2  | 163.9  | 107.9  |
| 85°   | 124.1  | 127.8  | 229.2  | 435.2  | 745.4  | 794.0  | 205.1  | 120.4  | 121.3  | 94.0   | 55.1   |
| 87.5° | 41.7   | 47.2   | 94.0   | 144.9  | 253.2  | 248.2  | 59.7   | 35.6   | 43.5   | 40.7   | 17.1   |
| 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°    | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 | 1275.9 |
| 2.5°  | 1280.1 | 1288.9 | 1294.9 | 1301.4 | 1307.4 | 1309.3 | 1307.9 | 1312.1 | 1312.5 | 1313.0 | 1313.4 |
| 5°    | 1287.5 | 1299.6 | 1311.1 | 1317.6 | 1320.4 | 1318.1 | 1310.2 | 1306.0 | 1302.3 | 1299.6 | 1300.5 |
| 7.5°  | 1297.7 | 1314.8 | 1325.5 | 1328.3 | 1320.9 | 1310.2 | 1290.8 | 1275.5 | 1265.8 | 1259.3 | 1258.8 |
| 10°   | 1313.4 | 1330.1 | 1338.9 | 1331.0 | 1310.7 | 1284.7 | 1254.2 | 1225.5 | 1203.7 | 1197.2 | 1196.8 |
| 12.5° | 1333.4 | 1352.3 | 1351.9 | 1328.7 | 1293.1 | 1246.8 | 1197.2 | 1163.9 | 1134.3 | 1119.5 | 1125.5 |
| 15°   | 1359.3 | 1373.6 | 1360.2 | 1318.5 | 1262.1 | 1198.6 | 1137.5 | 1092.1 | 1058.8 | 1043.1 | 1044.0 |
| 17.5° | 1389.4 | 1401.9 | 1366.2 | 1300.5 | 1218.5 | 1137.1 | 1066.2 | 1023.2 | 996.8  | 985.2  | 984.3  |
| 20°   | 1426.9 | 1430.6 | 1366.2 | 1269.0 | 1162.5 | 1065.3 | 997.7  | 967.6  | 952.8  | 946.8  | 948.6  |
| 22.5° | 1467.2 | 1459.7 | 1358.8 | 1224.6 | 1088.9 | 990.3  | 944.9  | 931.5  | 924.1  | 923.2  | 924.1  |
| 25°   | 1512.5 | 1491.7 | 1343.5 | 1164.4 | 1012.1 | 925.5  | 899.1  | 901.4  | 902.8  | 902.8  | 906.0  |
| 27.5° | 1568.1 | 1526.4 | 1318.1 | 1088.4 | 922.2  | 865.3  | 857.9  | 874.1  | 881.5  | 882.9  | 885.2  |
| 30°   | 1641.2 | 1564.4 | 1275.9 | 993.5  | 845.8  | 811.1  | 824.1  | 845.8  | 854.2  | 859.3  | 858.3  |
| 32.5° | 1728.3 | 1606.0 | 1219.0 | 898.6  | 784.3  | 773.2  | 788.9  | 811.1  | 820.4  | 823.2  | 819.5  |
| 35°   | 1830.6 | 1653.3 | 1144.0 | 809.7  | 730.6  | 737.1  | 755.6  | 762.5  | 770.8  | 770.8  | 772.7  |
| 37.5° | 1940.8 | 1691.2 | 1052.3 | 728.3  | 688.9  | 712.5  | 725.9  | 719.5  | 715.8  | 711.1  | 713.4  |
| 40°   | 2052.8 | 1719.5 | 933.3  | 647.7  | 647.2  | 687.0  | 690.8  | 672.2  | 657.4  | 652.8  | 650.5  |
| 42.5° | 2150.5 | 1737.1 | 825.9  | 585.2  | 607.9  | 662.0  | 664.8  | 635.2  | 611.6  | 597.7  | 593.1  |
| 45°   | 2265.8 | 1757.4 | 720.8  | 533.3  | 571.3  | 642.1  | 649.1  | 609.3  | 574.5  | 545.4  | 538.0  |
| 47.5° | 2423.7 | 1803.7 | 638.0  | 493.1  | 544.9  | 629.6  | 639.4  | 588.0  | 542.1  | 504.2  | 498.2  |
| 50°   | 2601.9 | 1867.2 | 573.6  | 465.7  | 524.5  | 618.5  | 630.6  | 566.2  | 512.0  | 469.9  | 465.3  |
| 52.5° | 2765.3 | 1901.4 | 518.1  | 441.2  | 504.6  | 598.2  | 619.0  | 550.5  | 482.4  | 435.7  | 431.5  |
| 55°   | 2854.7 | 1845.9 | 463.4  | 417.1  | 477.3  | 571.8  | 602.8  | 528.7  | 453.7  | 417.6  | 411.6  |
| 57.5° | 2866.7 | 1731.0 | 413.9  | 391.2  | 448.6  | 539.4  | 572.7  | 502.3  | 435.2  | 405.1  | 400.0  |
| 60°   | 2773.7 | 1559.7 | 375.5  | 369.9  | 419.5  | 502.8  | 538.9  | 479.2  | 416.2  | 391.2  | 386.1  |
| 62.5° | 2542.2 | 1373.6 | 348.6  | 350.5  | 389.8  | 464.4  | 513.9  | 457.0  | 398.2  | 375.9  | 371.3  |
| 65°   | 2144.0 | 1133.8 | 322.7  | 330.6  | 363.4  | 434.3  | 491.2  | 438.4  | 380.1  | 364.4  | 360.2  |
| 67.5° | 1489.4 | 818.5  | 301.4  | 309.7  | 338.4  | 403.7  | 464.8  | 418.5  | 359.7  | 351.4  | 344.9  |
| 70°   | 824.6  | 503.7  | 276.4  | 286.1  | 312.5  | 369.5  | 435.2  | 388.4  | 330.1  | 326.4  | 317.1  |
| 72.5° | 433.3  | 320.8  | 248.2  | 258.8  | 277.3  | 325.5  | 389.8  | 355.6  | 300.9  | 285.2  | 273.2  |
| 74°   | 338.4  | 263.0  | 229.2  | 240.3  | 252.8  | 299.5  | 363.0  | 332.0  | 280.1  | 261.6  | 252.3  |
| 75°   | 294.9  | 234.3  | 213.0  | 227.3  | 238.4  | 281.9  | 342.1  | 315.3  | 268.5  | 250.9  | 242.6  |
| 77.5° | 208.3  | 175.5  | 174.1  | 191.2  | 197.2  | 247.2  | 308.3  | 287.0  | 239.4  | 220.8  | 213.0  |
| 80°   | 146.3  | 131.5  | 138.0  | 148.6  | 156.9  | 218.5  | 286.1  | 248.2  | 196.3  | 174.5  | 171.8  |
| 82.5° | 95.4   | 86.1   | 98.6   | 108.3  | 111.1  | 161.1  | 231.0  | 188.4  | 143.1  | 116.2  | 107.9  |
| 85°   | 44.0   | 43.1   | 56.5   | 55.1   | 54.6   | 78.7   | 137.0  | 110.2  | 82.4   | 61.6   | 57.9   |
| 87.5° | 11.1   | 10.6   | 13.9   | 11.6   | 13.9   | 12.0   | 12.5   | 3.2    | 0.5    | 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)