

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: P450402

Luminaire Tested: **GLAN-SA1B-722-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-722-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4195 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

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

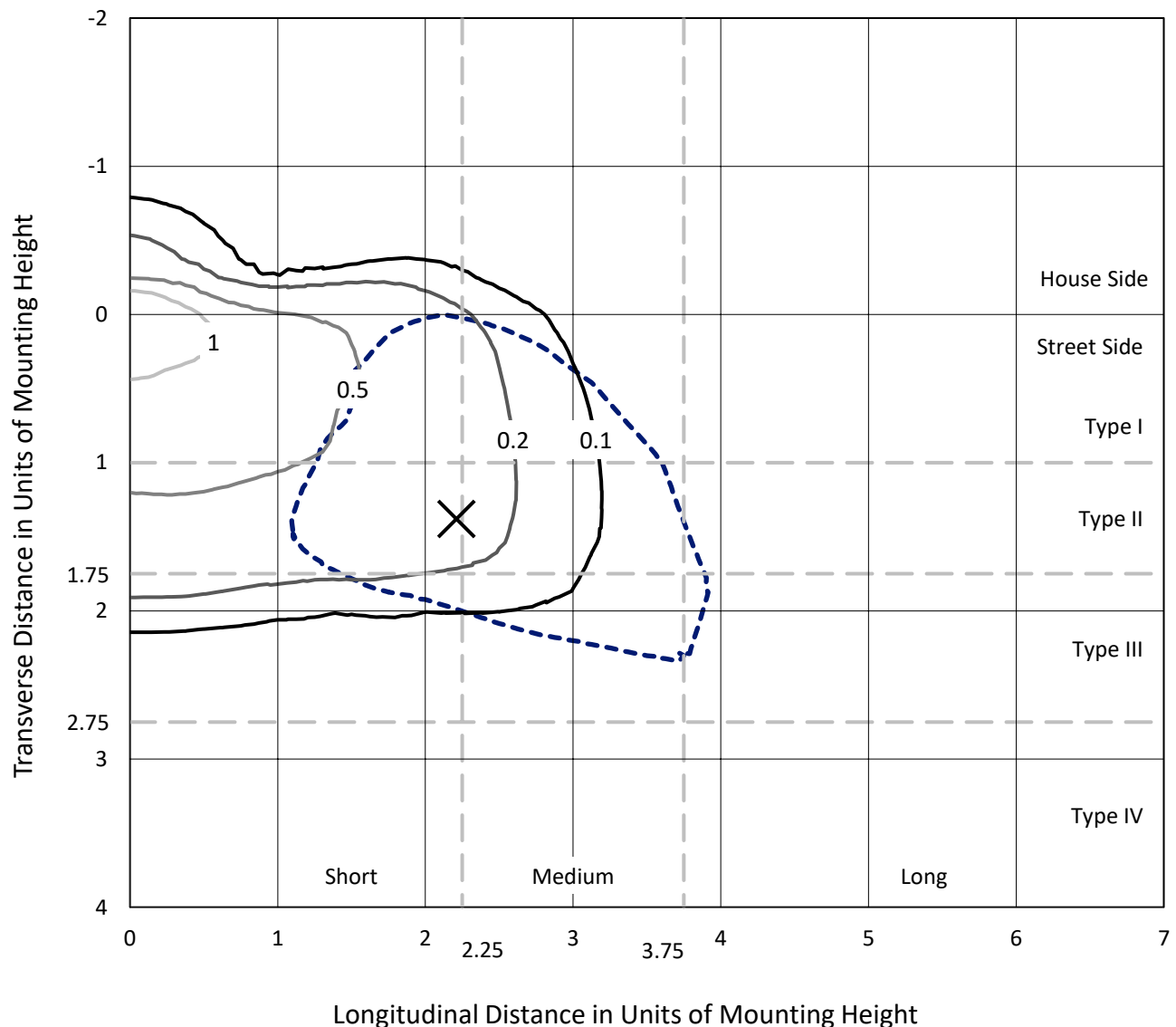


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## Iso-Footcandle Lines of Horizontal Illumination

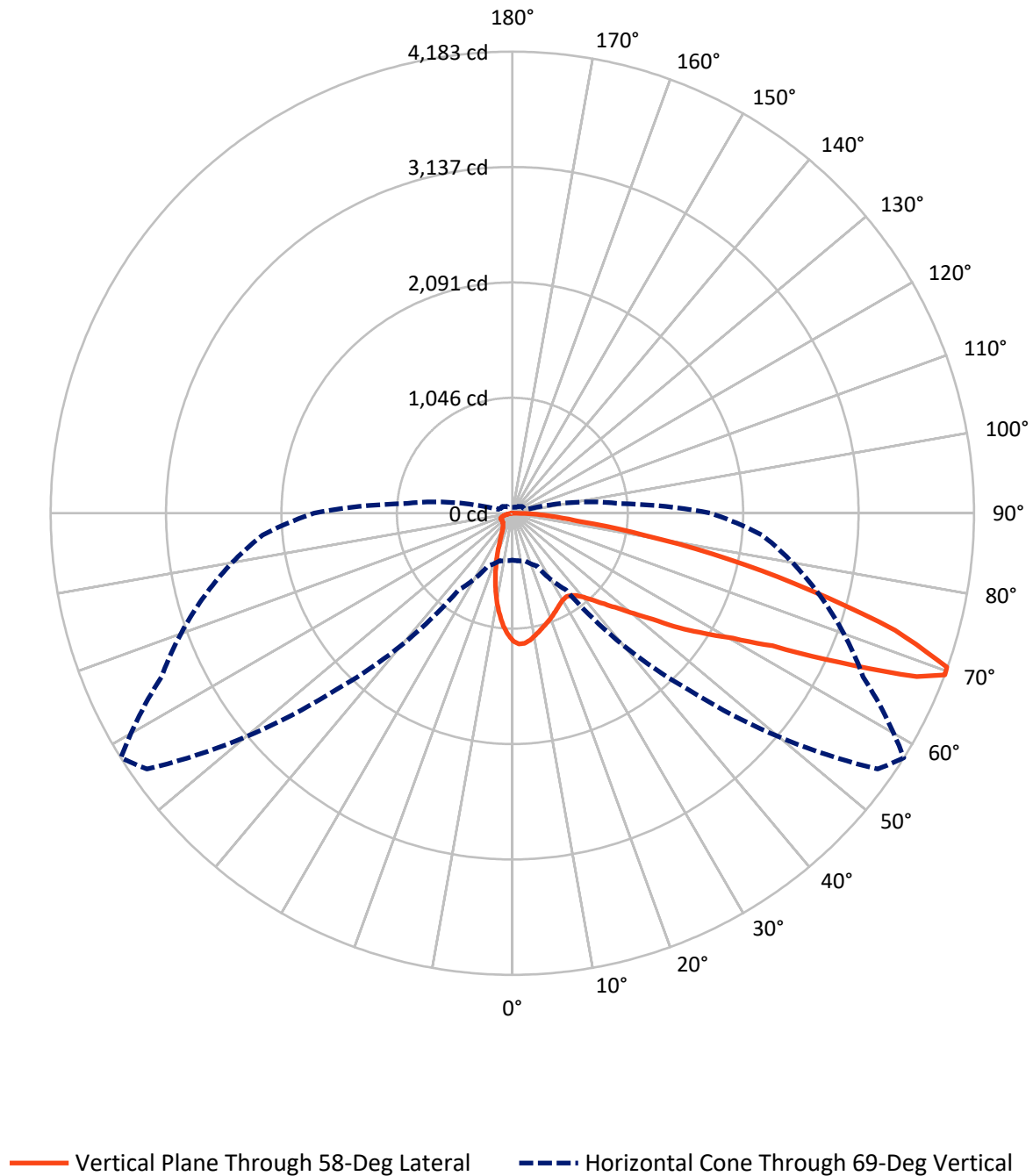
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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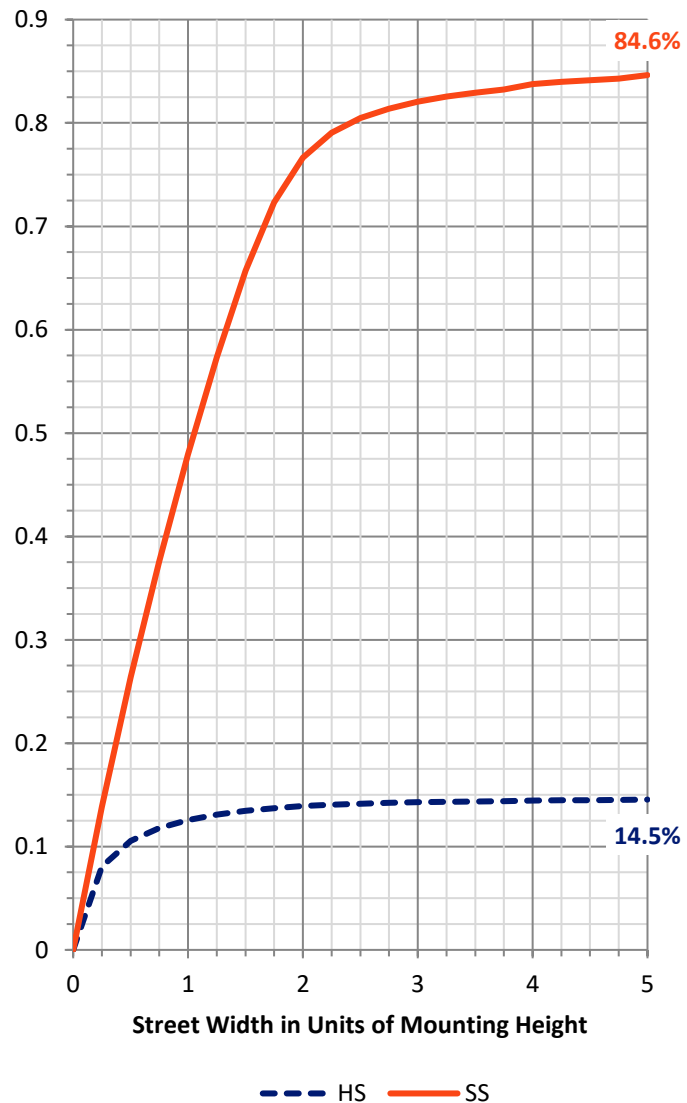
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 614.8    | 0.0    | 614.8  |
|                    | % Fixture | 14.7     | 0.0    | 14.7   |
| <b>Street Side</b> | Lumens    | 3580.2   | 0.0    | 3580.2 |
|                    | % Fixture | 85.3     | 0.0    | 85.3   |
| <b>Total</b>       | Lumens    | 4195.0   | 0.0    | 4195.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.4   | 2.3       |
| 10°-20°   | 216.2  | 5.2       |
| 20°-30°   | 279.3  | 6.7       |
| 30°-40°   | 362.8  | 8.6       |
| 40°-50°   | 527.4  | 12.6      |
| 50°-60°   | 841.6  | 20.1      |
| 60°-70°   | 1124.2 | 26.8      |
| 70°-80°   | 648.1  | 15.4      |
| 80°-90°   | 97.1   | 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°    | 4195.0 | 100.0     |
| 0°-180°   | 4195.0 | 100.0     |

**Coefficient of Utilization**



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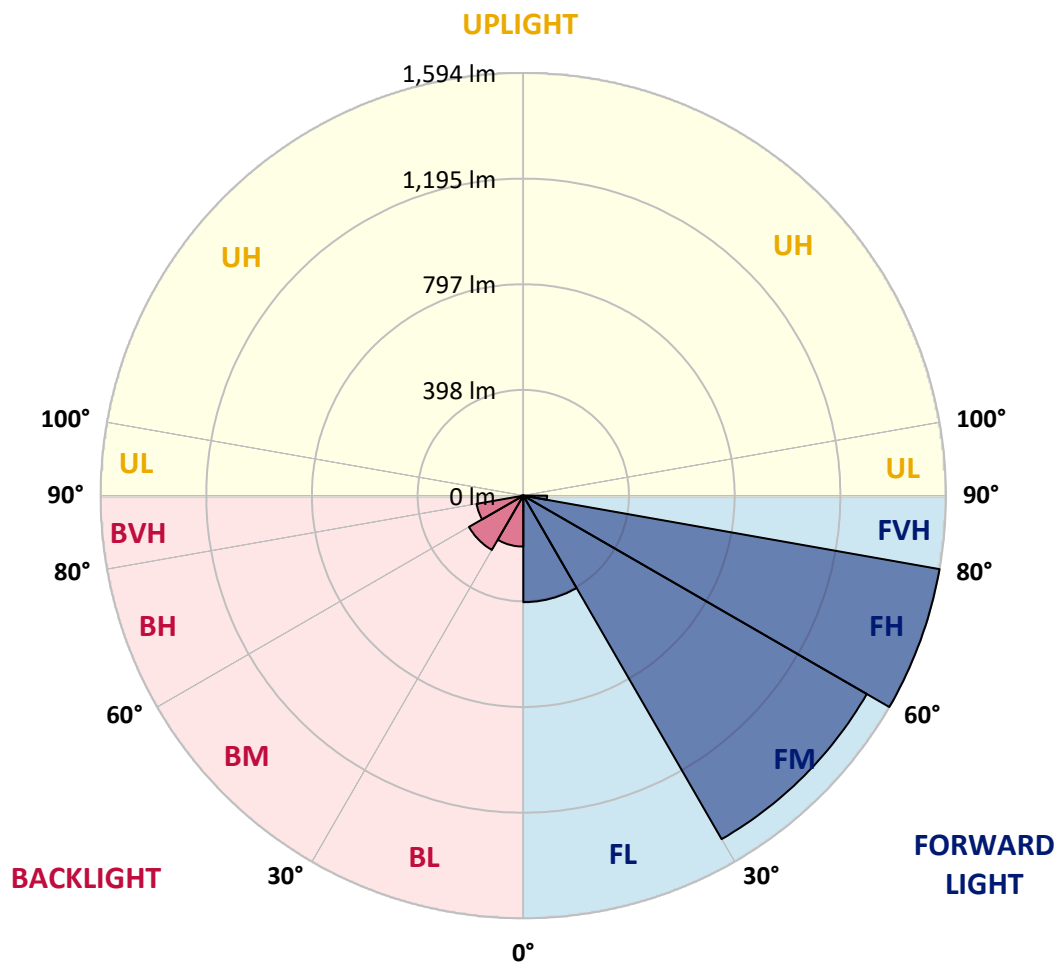
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 401.8  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 1495.3 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 1593.5 | 38.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 89.6   | 2.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 192.2  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 236.4  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 178.8  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 7.4    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 |
| 2.5°  | 1202.3 | 1205.6 | 1204.6 | 1203.5 | 1201.6 | 1196.5 | 1188.0 | 1186.6 | 1181.2 | 1169.8 | 1155.5 |
| 5°    | 1183.8 | 1186.6 | 1186.9 | 1188.5 | 1190.8 | 1189.9 | 1183.8 | 1183.1 | 1175.2 | 1159.7 | 1135.9 |
| 7.5°  | 1120.4 | 1124.2 | 1132.3 | 1141.5 | 1149.7 | 1157.4 | 1159.3 | 1160.4 | 1155.5 | 1137.7 | 1105.9 |
| 10°   | 1049.1 | 1052.8 | 1056.5 | 1070.1 | 1090.2 | 1109.4 | 1125.3 | 1127.4 | 1128.6 | 1112.2 | 1073.4 |
| 12.5° | 970.0  | 977.7  | 985.7  | 1005.8 | 1032.7 | 1062.9 | 1090.9 | 1095.4 | 1103.3 | 1090.9 | 1045.3 |
| 15°   | 902.8  | 910.8  | 922.3  | 940.3  | 972.8  | 1016.3 | 1055.8 | 1063.1 | 1078.8 | 1072.5 | 1019.1 |
| 17.5° | 856.3  | 859.1  | 867.0  | 887.6  | 922.7  | 968.6  | 1021.5 | 1036.0 | 1061.0 | 1059.4 | 996.7  |
| 20°   | 819.5  | 823.1  | 828.0  | 840.6  | 877.1  | 925.5  | 989.4  | 1008.1 | 1042.0 | 1047.7 | 974.4  |
| 22.5° | 804.1  | 806.7  | 806.0  | 812.8  | 837.6  | 886.2  | 956.9  | 979.1  | 1025.2 | 1039.7 | 953.8  |
| 25°   | 805.0  | 807.4  | 803.9  | 802.2  | 817.0  | 851.6  | 923.0  | 951.3  | 1011.6 | 1034.3 | 935.1  |
| 27.5° | 820.7  | 822.4  | 815.8  | 809.3  | 810.4  | 830.1  | 894.9  | 926.2  | 1000.2 | 1036.7 | 919.4  |
| 30°   | 841.8  | 844.8  | 840.6  | 832.6  | 824.0  | 824.9  | 876.9  | 907.7  | 994.8  | 1044.8 | 912.0  |
| 32.5° | 868.9  | 871.7  | 869.8  | 863.5  | 852.3  | 839.9  | 872.4  | 901.0  | 995.2  | 1061.5 | 910.3  |
| 35°   | 897.5  | 903.1  | 906.1  | 905.6  | 896.5  | 875.0  | 890.0  | 913.6  | 1006.5 | 1089.3 | 919.9  |
| 37.5° | 929.7  | 934.4  | 947.5  | 955.9  | 947.5  | 922.5  | 929.5  | 945.9  | 1031.3 | 1129.5 | 941.0  |
| 40°   | 961.1  | 968.1  | 987.3  | 1013.5 | 1010.2 | 988.2  | 989.9  | 1000.6 | 1075.0 | 1189.4 | 982.1  |
| 42.5° | 993.8  | 1002.3 | 1035.7 | 1074.6 | 1082.3 | 1065.2 | 1069.6 | 1079.2 | 1137.3 | 1272.5 | 1052.8 |
| 45°   | 1036.0 | 1046.0 | 1087.2 | 1135.6 | 1166.0 | 1155.5 | 1168.1 | 1172.8 | 1220.5 | 1380.6 | 1145.9 |
| 47.5° | 1090.2 | 1101.9 | 1152.7 | 1213.1 | 1256.1 | 1265.7 | 1287.7 | 1284.9 | 1323.7 | 1508.5 | 1266.6 |
| 50°   | 1181.7 | 1188.3 | 1236.2 | 1297.8 | 1356.9 | 1400.2 | 1424.1 | 1428.5 | 1451.7 | 1633.0 | 1401.6 |
| 52.5° | 1290.5 | 1296.4 | 1331.0 | 1384.8 | 1459.0 | 1550.7 | 1609.6 | 1595.1 | 1600.7 | 1784.6 | 1559.6 |
| 55°   | 1412.9 | 1422.7 | 1444.7 | 1480.5 | 1576.6 | 1711.6 | 1830.0 | 1833.5 | 1771.3 | 1929.7 | 1710.9 |
| 57.5° | 1507.6 | 1524.2 | 1561.9 | 1612.9 | 1734.8 | 1890.6 | 2049.7 | 2052.0 | 1972.5 | 2084.5 | 1878.0 |
| 60°   | 1459.9 | 1479.5 | 1565.6 | 1689.9 | 1942.3 | 2202.9 | 2312.2 | 2298.9 | 2168.3 | 2261.0 | 2081.7 |
| 62.5° | 1254.0 | 1257.5 | 1382.7 | 1576.9 | 2006.2 | 2620.8 | 2702.9 | 2646.5 | 2429.6 | 2484.6 | 2288.8 |
| 65°   | 811.6  | 834.5  | 933.7  | 1205.8 | 1796.3 | 2852.6 | 3387.5 | 3257.1 | 2796.0 | 2738.5 | 2462.2 |
| 67.5° | 512.4  | 506.5  | 547.7  | 688.5  | 1235.5 | 2648.4 | 3971.6 | 3951.1 | 3275.2 | 2898.7 | 2420.7 |
| 69°   | 424.9  | 431.4  | 445.5  | 527.8  | 850.2  | 2261.2 | 4040.7 | 4182.9 | 3507.5 | 2886.1 | 2270.3 |
| 70°   | 385.3  | 388.4  | 403.1  | 467.9  | 656.0  | 1893.9 | 3927.4 | 4176.6 | 3598.7 | 2833.2 | 2161.3 |
| 72.5° | 305.8  | 305.5  | 330.8  | 389.3  | 490.4  | 1081.1 | 3224.9 | 3626.1 | 3496.7 | 2587.1 | 1785.8 |
| 75°   | 232.3  | 236.1  | 263.9  | 329.4  | 451.8  | 590.7  | 2250.4 | 2792.5 | 2792.7 | 2043.4 | 1114.3 |
| 77.5° | 167.5  | 169.9  | 202.4  | 276.5  | 425.6  | 478.9  | 1499.0 | 2002.9 | 1882.9 | 936.3  | 350.2  |
| 80°   | 109.7  | 111.1  | 135.9  | 219.0  | 383.7  | 451.8  | 888.8  | 1225.9 | 888.1  | 248.5  | 115.8  |
| 82.5° | 60.1   | 67.1   | 83.1   | 141.8  | 307.9  | 417.4  | 540.2  | 620.5  | 333.2  | 110.7  | 60.4   |
| 85°   | 30.2   | 32.1   | 46.8   | 82.8   | 201.2  | 345.3  | 376.2  | 355.8  | 172.0  | 55.0   | 31.4   |
| 87.5° | 8.9    | 11.2   | 19.4   | 32.1   | 81.7   | 179.9  | 209.4  | 187.9  | 66.2   | 19.9   | 6.6    |
| 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°    | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 |
| 2.5°  | 1149.7 | 1145.4 | 1126.7 | 1109.9 | 1094.4 | 1078.1 | 1064.3 | 1052.1 | 1053.3 | 1053.5 | 1041.1 |
| 5°    | 1123.5 | 1113.9 | 1078.3 | 1045.1 | 1017.0 | 981.4  | 951.0  | 931.4  | 921.6  | 908.5  | 913.1  |
| 7.5°  | 1087.9 | 1069.4 | 1020.0 | 964.8  | 913.1  | 867.0  | 817.0  | 782.6  | 760.6  | 739.3  | 742.1  |
| 10°   | 1051.2 | 1021.5 | 949.6  | 876.6  | 809.7  | 736.0  | 672.2  | 617.4  | 576.7  | 561.5  | 551.4  |
| 12.5° | 1013.5 | 974.4  | 883.2  | 786.1  | 693.7  | 605.5  | 514.9  | 456.2  | 411.3  | 387.4  | 390.5  |
| 15°   | 979.1  | 931.6  | 813.9  | 695.6  | 575.5  | 470.5  | 380.2  | 324.3  | 292.9  | 286.4  | 290.1  |
| 17.5° | 947.3  | 885.1  | 749.1  | 607.6  | 467.4  | 352.8  | 285.7  | 254.1  | 241.4  | 237.9  | 237.7  |
| 20°   | 914.5  | 845.5  | 676.4  | 513.5  | 364.3  | 273.5  | 234.4  | 219.7  | 217.3  | 218.7  | 219.0  |
| 22.5° | 881.3  | 796.6  | 601.5  | 420.2  | 290.1  | 223.7  | 204.9  | 201.0  | 202.8  | 206.1  | 206.6  |
| 25°   | 850.7  | 753.6  | 529.4  | 338.3  | 231.6  | 196.5  | 187.4  | 187.4  | 191.6  | 196.5  | 196.8  |
| 27.5° | 825.4  | 711.9  | 457.6  | 268.6  | 193.9  | 176.9  | 173.8  | 175.5  | 181.3  | 185.1  | 185.3  |
| 30°   | 804.6  | 673.1  | 389.8  | 215.2  | 170.6  | 161.2  | 160.5  | 163.3  | 167.5  | 171.0  | 171.3  |
| 32.5° | 788.9  | 638.9  | 326.4  | 180.8  | 154.4  | 149.3  | 149.0  | 151.1  | 153.5  | 154.4  | 155.3  |
| 35°   | 782.8  | 610.6  | 268.3  | 159.1  | 143.6  | 140.4  | 140.4  | 140.1  | 141.1  | 141.5  | 142.0  |
| 37.5° | 787.7  | 588.9  | 223.4  | 145.1  | 135.7  | 133.4  | 132.0  | 130.5  | 130.1  | 130.1  | 130.3  |
| 40°   | 808.6  | 577.4  | 190.0  | 135.9  | 130.1  | 126.6  | 124.0  | 122.4  | 120.7  | 121.2  | 121.7  |
| 42.5° | 852.8  | 579.5  | 167.3  | 129.8  | 125.2  | 120.3  | 116.5  | 114.6  | 113.5  | 114.9  | 114.6  |
| 45°   | 923.2  | 600.6  | 152.8  | 125.6  | 120.3  | 113.9  | 110.4  | 108.6  | 108.6  | 110.7  | 111.4  |
| 47.5° | 1021.7 | 640.8  | 145.1  | 122.4  | 116.5  | 109.0  | 105.5  | 104.1  | 104.6  | 108.1  | 108.3  |
| 50°   | 1141.9 | 710.8  | 143.6  | 120.7  | 114.6  | 105.5  | 101.5  | 100.1  | 101.3  | 105.0  | 105.5  |
| 52.5° | 1274.6 | 800.8  | 150.4  | 121.0  | 113.0  | 103.4  | 98.3   | 96.2   | 97.3   | 100.4  | 101.3  |
| 55°   | 1431.8 | 913.6  | 168.0  | 121.9  | 110.7  | 102.2  | 95.9   | 91.2   | 92.6   | 94.8   | 95.0   |
| 57.5° | 1592.3 | 1055.8 | 198.9  | 122.1  | 108.8  | 100.1  | 91.9   | 85.9   | 85.9   | 87.3   | 88.0   |
| 60°   | 1788.4 | 1210.7 | 239.6  | 122.4  | 109.0  | 97.1   | 86.6   | 79.8   | 78.8   | 79.5   | 79.8   |
| 62.5° | 1983.0 | 1340.3 | 246.4  | 121.7  | 111.4  | 94.1   | 80.7   | 73.7   | 72.1   | 71.8   | 71.4   |
| 65°   | 2068.9 | 1316.2 | 201.9  | 118.4  | 113.9  | 92.2   | 76.0   | 67.8   | 65.0   | 64.1   | 64.1   |
| 67.5° | 1929.0 | 1113.4 | 151.8  | 113.9  | 112.3  | 90.3   | 71.6   | 62.9   | 59.7   | 57.8   | 57.8   |
| 69°   | 1797.5 | 990.3  | 136.4  | 110.9  | 108.1  | 87.3   | 68.8   | 60.4   | 56.4   | 54.3   | 53.6   |
| 70°   | 1695.9 | 905.6  | 129.8  | 108.3  | 104.1  | 83.8   | 66.7   | 58.5   | 54.0   | 51.7   | 51.2   |
| 72.5° | 1353.4 | 710.5  | 113.7  | 98.5   | 88.7   | 70.4   | 59.2   | 52.6   | 48.4   | 45.9   | 45.2   |
| 75°   | 780.0  | 385.1  | 94.3   | 85.6   | 71.4   | 54.7   | 50.1   | 45.9   | 42.6   | 40.2   | 39.5   |
| 77.5° | 240.0  | 148.8  | 68.3   | 67.6   | 52.4   | 42.3   | 40.0   | 38.4   | 36.0   | 33.5   | 33.0   |
| 80°   | 101.1  | 75.8   | 46.3   | 45.6   | 34.9   | 29.5   | 28.8   | 28.5   | 27.6   | 25.5   | 24.8   |
| 82.5° | 55.4   | 42.8   | 32.3   | 28.1   | 21.1   | 17.1   | 17.8   | 18.0   | 17.3   | 15.2   | 13.8   |
| 85°   | 27.1   | 23.4   | 15.7   | 12.6   | 9.6    | 6.1    | 5.8    | 7.0    | 6.6    | 4.7    | 5.1    |
| 87.5° | 5.4    | 6.6    | 4.2    | 1.9    | 0.9    | 0.0    | 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)