

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: P652668

Luminaire Tested: **GLAN-SA1C-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5855.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

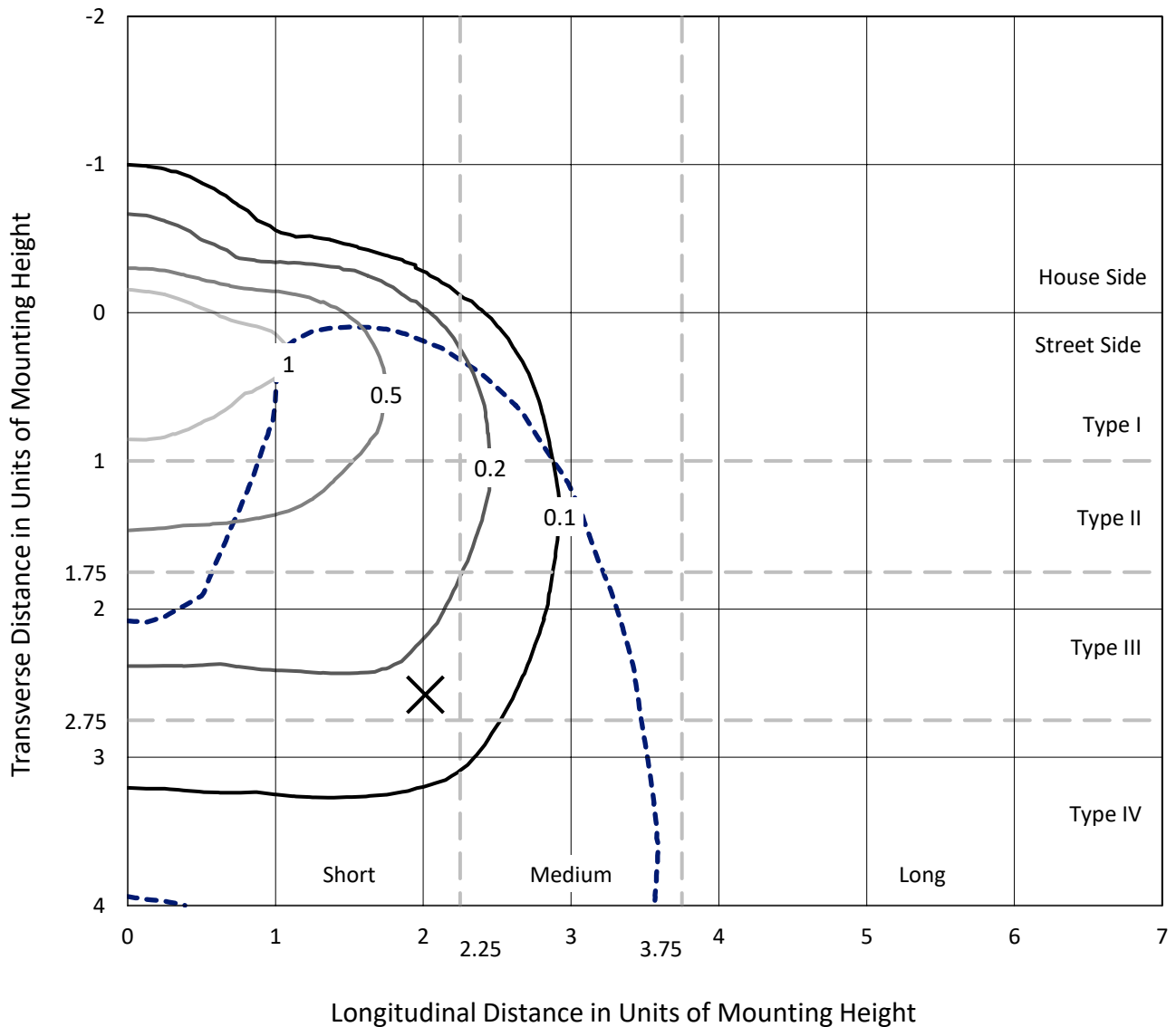
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

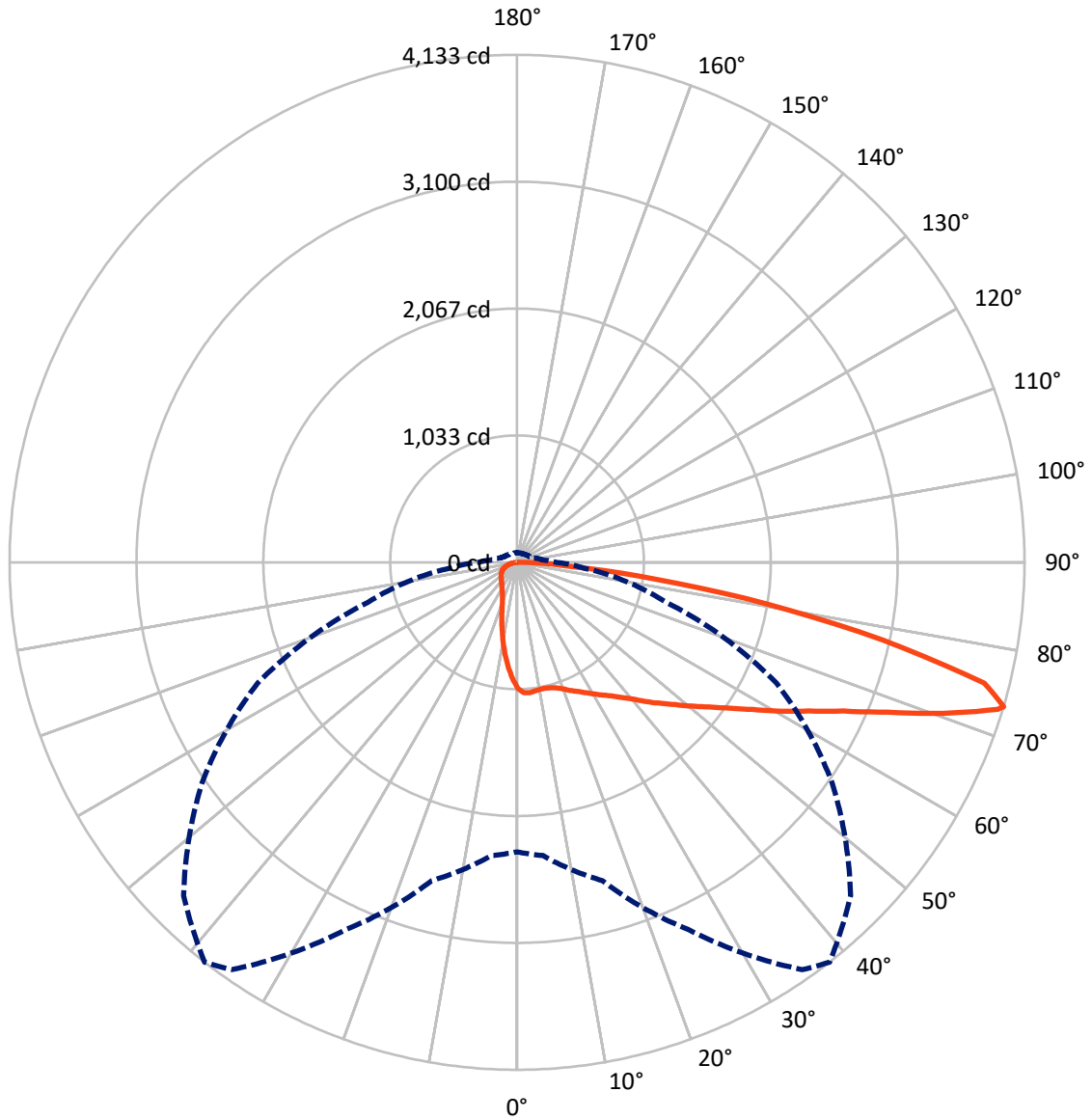
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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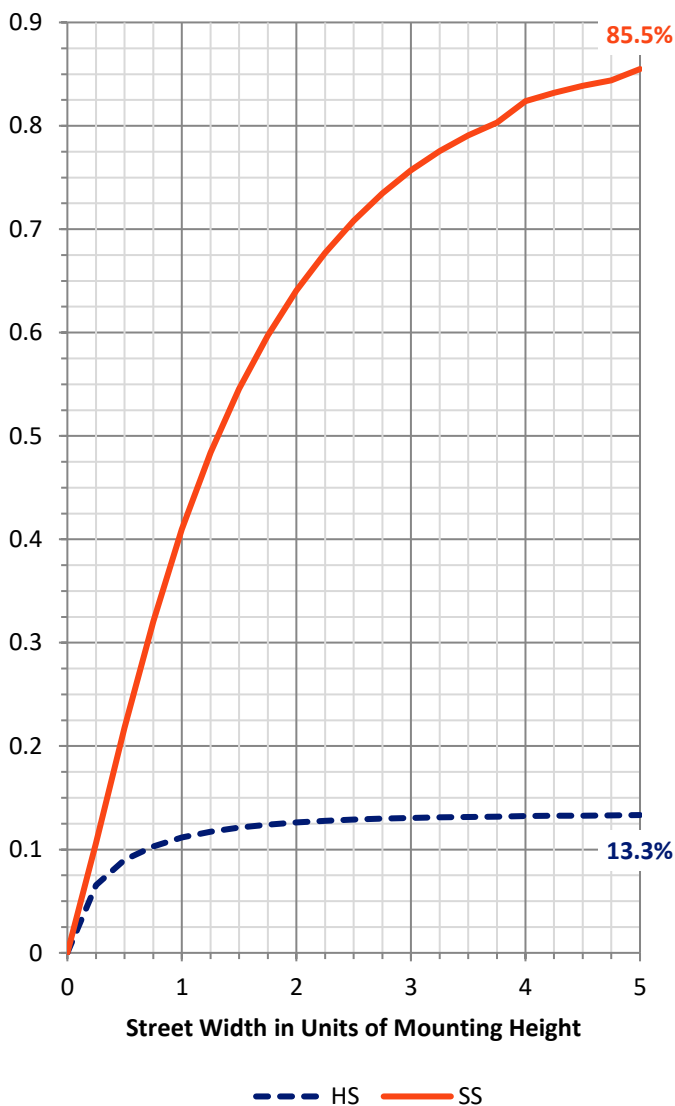
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 787.2 | 0.0 | 787.2 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 5068.7 | 0.0 | 5068.7 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 5855.9 | 0.0 | 5855.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.8 | 1.5 |
| 10°-20° | 230.3 | 3.9 |
| 20°-30° | 358.6 | 6.1 |
| 30°-40° | 526.0 | 9.0 |
| 40°-50° | 780.2 | 13.3 |
| 50°-60° | 1105.4 | 18.9 |
| 60°-70° | 1402.2 | 23.9 |
| 70°-80° | 1167.3 | 19.9 |
| 80°-90° | 196.1 | 3.3 |
| 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° | 5855.9 | 100.0 |
| 0°-180° | 5855.9 | 100.0 |

Coefficient of Utilization



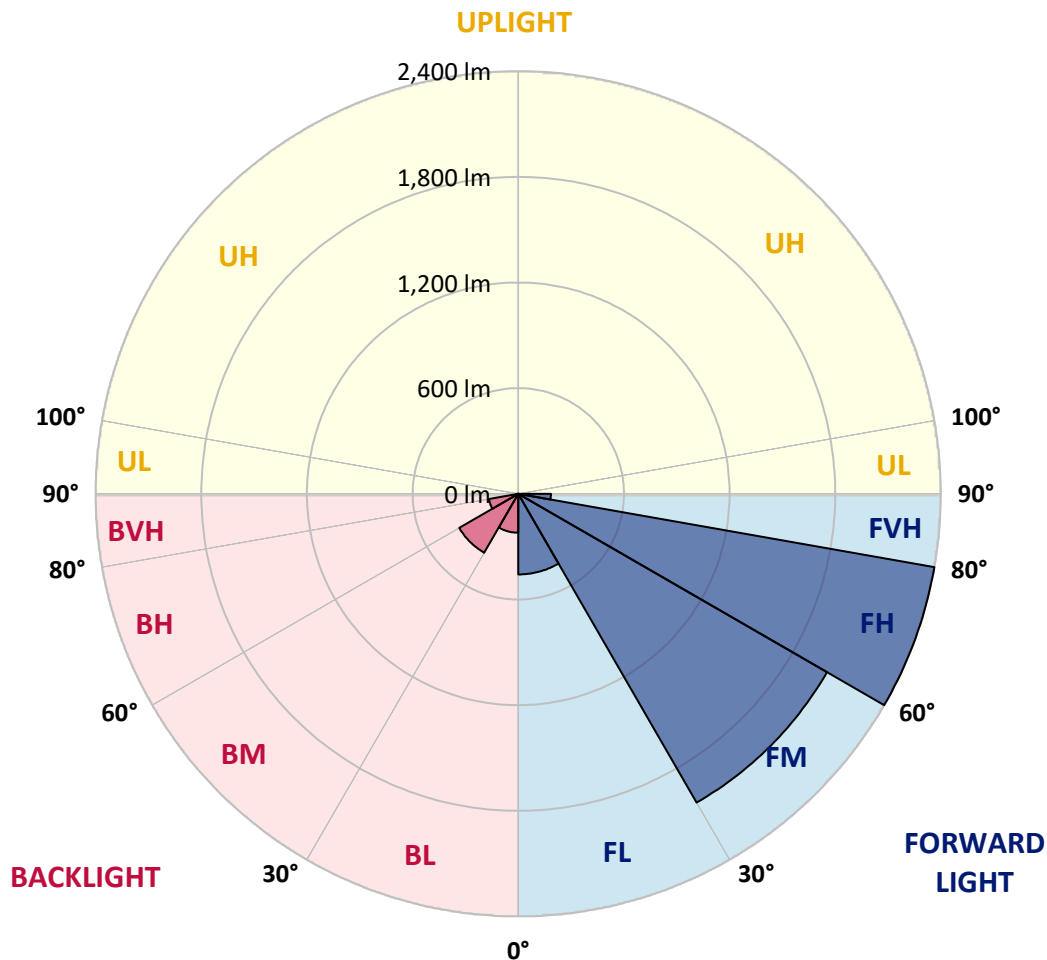
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 457.8 | 7.8 | | | |
| FM (30°-60°) | 2025.1 | 34.6 | | | |
| FH (60°-80°) | 2400.3 | 41.0 | | | G2/5000 |
| FVH (80°-90°) | 185.5 | 3.2 | | | G2/225 |
| BL (0°-30°) | 220.9 | 3.8 | B1/500 | | |
| BM (30°-60°) | 386.5 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 169.2 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.6 | 0.2 | | | 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° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 |
| 2.5° | 1070.1 | 1075.4 | 1072.8 | 1069.2 | 1066.8 | 1064.5 | 1061.2 | 1051.6 | 1044.0 | 1035.7 | 1022.8 |
| 5° | 1078.1 | 1081.4 | 1079.0 | 1074.4 | 1069.2 | 1066.8 | 1060.5 | 1048.0 | 1035.7 | 1021.8 | 1002.6 |
| 7.5° | 1073.5 | 1074.7 | 1072.1 | 1066.5 | 1061.8 | 1057.6 | 1050.2 | 1036.4 | 1021.5 | 1004.7 | 979.5 |
| 10° | 1056.9 | 1061.8 | 1061.8 | 1057.2 | 1052.6 | 1050.2 | 1043.0 | 1029.8 | 1016.2 | 997.0 | 967.2 |
| 12.5° | 1043.3 | 1048.6 | 1052.9 | 1051.6 | 1051.2 | 1051.2 | 1045.6 | 1035.7 | 1019.9 | 1001.6 | 966.3 |
| 15° | 1034.1 | 1040.3 | 1049.7 | 1054.9 | 1058.2 | 1059.2 | 1056.9 | 1048.3 | 1032.1 | 1010.9 | 970.3 |
| 17.5° | 1032.1 | 1039.7 | 1056.5 | 1068.2 | 1076.7 | 1076.4 | 1075.7 | 1063.9 | 1046.0 | 1024.2 | 975.2 |
| 20° | 1041.0 | 1050.9 | 1074.4 | 1092.6 | 1105.2 | 1102.9 | 1099.2 | 1083.7 | 1062.9 | 1038.4 | 979.8 |
| 22.5° | 1067.8 | 1078.1 | 1103.8 | 1123.7 | 1135.9 | 1135.9 | 1125.0 | 1104.5 | 1082.4 | 1054.9 | 986.2 |
| 25° | 1106.2 | 1117.4 | 1144.9 | 1165.0 | 1170.7 | 1166.4 | 1155.4 | 1130.6 | 1105.2 | 1078.8 | 999.4 |
| 27.5° | 1153.1 | 1166.7 | 1192.1 | 1209.0 | 1207.3 | 1204.1 | 1192.8 | 1161.1 | 1135.6 | 1111.5 | 1021.8 |
| 30° | 1211.6 | 1221.6 | 1248.0 | 1252.0 | 1246.0 | 1245.4 | 1229.5 | 1197.8 | 1174.0 | 1155.4 | 1053.9 |
| 32.5° | 1266.9 | 1275.8 | 1297.0 | 1298.6 | 1288.1 | 1289.3 | 1274.5 | 1245.4 | 1231.8 | 1225.2 | 1107.8 |
| 35° | 1325.4 | 1330.0 | 1348.2 | 1346.3 | 1339.3 | 1338.3 | 1332.3 | 1304.6 | 1308.8 | 1320.8 | 1184.2 |
| 37.5° | 1374.4 | 1383.6 | 1393.9 | 1395.6 | 1395.2 | 1398.5 | 1402.5 | 1389.2 | 1414.1 | 1451.4 | 1284.4 |
| 40° | 1419.4 | 1427.3 | 1442.5 | 1447.8 | 1460.6 | 1467.3 | 1480.8 | 1481.2 | 1538.4 | 1599.9 | 1407.7 |
| 42.5° | 1449.7 | 1463.3 | 1491.8 | 1501.4 | 1532.7 | 1552.6 | 1572.8 | 1594.3 | 1677.3 | 1756.3 | 1553.2 |
| 45° | 1476.2 | 1494.0 | 1541.4 | 1571.1 | 1613.8 | 1637.9 | 1680.6 | 1725.6 | 1844.9 | 1948.4 | 1701.1 |
| 47.5° | 1516.2 | 1532.0 | 1586.3 | 1638.9 | 1703.4 | 1731.2 | 1795.0 | 1862.1 | 2018.2 | 2131.6 | 1842.6 |
| 50° | 1571.7 | 1581.3 | 1636.6 | 1722.2 | 1804.6 | 1840.3 | 1924.6 | 2021.5 | 2203.4 | 2312.5 | 1966.9 |
| 52.5° | 1642.9 | 1646.8 | 1690.8 | 1804.9 | 1913.4 | 1957.7 | 2069.4 | 2182.6 | 2365.4 | 2469.6 | 2065.5 |
| 55° | 1726.9 | 1720.3 | 1754.7 | 1892.5 | 2037.7 | 2095.6 | 2215.6 | 2345.5 | 2547.6 | 2596.6 | 2137.2 |
| 57.5° | 1809.8 | 1799.7 | 1827.1 | 1999.1 | 2191.1 | 2260.9 | 2400.8 | 2513.6 | 2710.4 | 2715.3 | 2187.5 |
| 60° | 1897.8 | 1890.2 | 1922.9 | 2124.0 | 2379.4 | 2462.0 | 2591.3 | 2687.8 | 2867.7 | 2798.0 | 2195.4 |
| 62.5° | 1988.1 | 1975.8 | 2022.5 | 2264.6 | 2591.3 | 2666.4 | 2791.7 | 2873.0 | 3022.2 | 2828.7 | 2119.1 |
| 65° | 2075.8 | 2070.1 | 2142.2 | 2431.6 | 2832.7 | 2918.0 | 3039.7 | 3095.0 | 3145.8 | 2782.4 | 1929.6 |
| 67.5° | 2169.0 | 2180.2 | 2295.3 | 2654.4 | 3147.5 | 3254.7 | 3386.0 | 3334.1 | 3181.3 | 2563.2 | 1625.0 |
| 70° | 2311.2 | 2318.5 | 2496.4 | 2946.4 | 3553.3 | 3682.6 | 3746.1 | 3419.0 | 3010.6 | 2146.8 | 1221.6 |
| 72.5° | 2372.4 | 2404.4 | 2676.0 | 3253.0 | 4014.3 | 4093.3 | 3867.1 | 3229.5 | 2507.9 | 1458.4 | 641.9 |
| 73° | 2358.8 | 2397.2 | 2684.2 | 3299.7 | 4050.3 | 4133.3 | 3841.3 | 3132.0 | 2331.3 | 1255.9 | 550.3 |
| 75° | 2189.8 | 2237.1 | 2576.7 | 3260.6 | 3980.2 | 3930.6 | 3426.7 | 2669.3 | 1575.4 | 571.1 | 250.7 |
| 77.5° | 1727.8 | 1741.5 | 2041.7 | 2633.0 | 3134.3 | 3042.3 | 2564.5 | 1668.4 | 643.5 | 212.3 | 142.2 |
| 80° | 866.7 | 916.7 | 1150.8 | 1508.2 | 2095.9 | 2065.8 | 1618.8 | 789.0 | 268.2 | 124.6 | 94.3 |
| 82.5° | 417.0 | 452.4 | 560.5 | 735.5 | 1158.1 | 1130.6 | 801.6 | 431.2 | 170.3 | 72.7 | 55.6 |
| 85° | 268.5 | 294.9 | 356.8 | 350.9 | 476.2 | 454.7 | 360.1 | 326.4 | 100.8 | 38.0 | 38.7 |
| 87.5° | 177.3 | 194.1 | 232.8 | 186.2 | 173.2 | 156.8 | 159.0 | 183.8 | 19.8 | 14.5 | 5.3 |
| 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° | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 | 1028.8 |
| 2.5° | 1017.5 | 1013.2 | 999.0 | 985.1 | 971.9 | 959.3 | 951.1 | 940.2 | 932.8 | 934.9 | 937.8 |
| 5° | 992.0 | 982.5 | 957.3 | 932.8 | 909.7 | 882.3 | 860.1 | 842.3 | 828.7 | 823.8 | 822.8 |
| 7.5° | 965.3 | 949.1 | 913.1 | 871.0 | 831.7 | 797.6 | 758.2 | 738.7 | 715.9 | 708.0 | 705.3 |
| 10° | 949.1 | 927.3 | 876.7 | 818.1 | 758.9 | 702.4 | 659.8 | 625.0 | 593.6 | 587.6 | 584.7 |
| 12.5° | 944.4 | 915.7 | 847.6 | 772.1 | 693.5 | 624.0 | 560.9 | 515.2 | 484.8 | 477.9 | 467.6 |
| 15° | 941.8 | 906.1 | 820.5 | 725.9 | 626.0 | 541.4 | 474.9 | 421.6 | 393.8 | 375.3 | 375.7 |
| 17.5° | 939.5 | 895.2 | 790.0 | 675.2 | 567.8 | 470.2 | 396.9 | 348.8 | 323.4 | 313.5 | 312.5 |
| 20° | 936.2 | 882.3 | 755.0 | 622.0 | 501.3 | 405.4 | 338.9 | 303.3 | 286.0 | 277.8 | 277.4 |
| 22.5° | 934.9 | 869.7 | 720.6 | 567.8 | 442.5 | 355.5 | 300.6 | 275.4 | 264.6 | 258.9 | 258.9 |
| 25° | 938.1 | 860.8 | 684.5 | 516.2 | 390.2 | 312.9 | 274.2 | 256.9 | 250.7 | 247.7 | 246.7 |
| 27.5° | 948.4 | 856.8 | 648.8 | 464.7 | 342.3 | 283.8 | 256.3 | 244.4 | 239.8 | 237.4 | 237.8 |
| 30° | 967.9 | 856.5 | 613.8 | 413.7 | 306.5 | 261.6 | 242.0 | 233.8 | 230.2 | 228.8 | 228.5 |
| 32.5° | 999.4 | 863.8 | 579.4 | 371.7 | 276.4 | 243.0 | 228.8 | 222.9 | 221.3 | 220.3 | 219.9 |
| 35° | 1052.6 | 884.2 | 545.3 | 333.4 | 253.3 | 226.5 | 216.3 | 213.3 | 211.0 | 211.9 | 212.3 |
| 37.5° | 1124.3 | 919.6 | 512.9 | 303.3 | 235.8 | 214.3 | 205.7 | 203.0 | 201.8 | 202.7 | 203.7 |
| 40° | 1220.5 | 970.6 | 485.8 | 279.1 | 223.2 | 204.0 | 196.5 | 194.1 | 192.8 | 194.4 | 194.8 |
| 42.5° | 1326.8 | 1029.5 | 463.3 | 260.3 | 212.9 | 195.4 | 188.1 | 185.5 | 184.5 | 185.5 | 185.9 |
| 45° | 1435.8 | 1097.9 | 451.7 | 246.7 | 204.4 | 189.1 | 181.6 | 178.5 | 176.3 | 175.6 | 176.6 |
| 47.5° | 1543.3 | 1157.4 | 451.4 | 238.4 | 197.4 | 183.5 | 175.3 | 172.0 | 169.0 | 167.4 | 167.0 |
| 50° | 1631.0 | 1204.7 | 459.4 | 234.8 | 191.5 | 177.3 | 169.0 | 165.7 | 161.7 | 158.4 | 159.0 |
| 52.5° | 1697.1 | 1235.4 | 463.0 | 233.1 | 188.1 | 170.6 | 162.4 | 159.4 | 154.7 | 150.5 | 150.5 |
| 55° | 1739.8 | 1242.7 | 454.1 | 231.4 | 185.5 | 163.7 | 154.7 | 152.1 | 147.5 | 143.2 | 143.2 |
| 57.5° | 1754.3 | 1220.3 | 421.9 | 227.5 | 182.8 | 157.8 | 147.2 | 144.8 | 141.2 | 136.9 | 136.2 |
| 60° | 1720.6 | 1144.2 | 365.8 | 215.6 | 177.6 | 151.5 | 138.8 | 137.9 | 136.6 | 133.0 | 132.6 |
| 62.5° | 1590.6 | 982.8 | 304.5 | 200.1 | 168.6 | 144.8 | 131.3 | 133.0 | 134.0 | 132.0 | 131.6 |
| 65° | 1374.4 | 797.9 | 260.3 | 178.5 | 156.8 | 135.6 | 123.0 | 127.3 | 129.9 | 129.9 | 129.3 |
| 67.5° | 1114.7 | 612.8 | 219.2 | 160.0 | 141.9 | 123.0 | 113.8 | 117.1 | 119.1 | 118.4 | 120.0 |
| 70° | 792.3 | 415.0 | 178.5 | 138.8 | 123.0 | 108.8 | 101.8 | 101.8 | 100.5 | 99.8 | 99.8 |
| 72.5° | 384.3 | 237.1 | 144.8 | 116.1 | 104.8 | 92.9 | 87.3 | 85.0 | 82.3 | 82.0 | 80.4 |
| 73° | 321.1 | 212.6 | 138.3 | 111.8 | 100.5 | 90.6 | 84.4 | 80.7 | 79.1 | 77.7 | 77.4 |
| 75° | 195.4 | 161.4 | 115.4 | 94.3 | 85.6 | 78.0 | 72.4 | 69.1 | 67.4 | 66.4 | 66.1 |
| 77.5° | 128.7 | 120.3 | 89.7 | 72.1 | 65.5 | 60.9 | 58.5 | 55.3 | 54.2 | 52.9 | 52.9 |
| 80° | 95.9 | 91.9 | 64.2 | 51.0 | 46.9 | 43.0 | 42.3 | 41.6 | 39.0 | 37.3 | 36.7 |
| 82.5° | 61.8 | 65.5 | 43.6 | 34.1 | 29.8 | 26.5 | 26.8 | 27.8 | 25.1 | 22.8 | 22.1 |
| 85° | 44.0 | 47.3 | 26.5 | 15.6 | 12.5 | 10.9 | 12.2 | 10.9 | 11.3 | 8.9 | 7.3 |
| 87.5° | 7.3 | 12.5 | 4.6 | 2.0 | 1.0 | 0.7 | 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)