

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: P320205

Luminaire Tested: **GAN-SA1C-722-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-722-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 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: 5173 lumens
Efficiency: N/A
Efficacy: 87.7 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

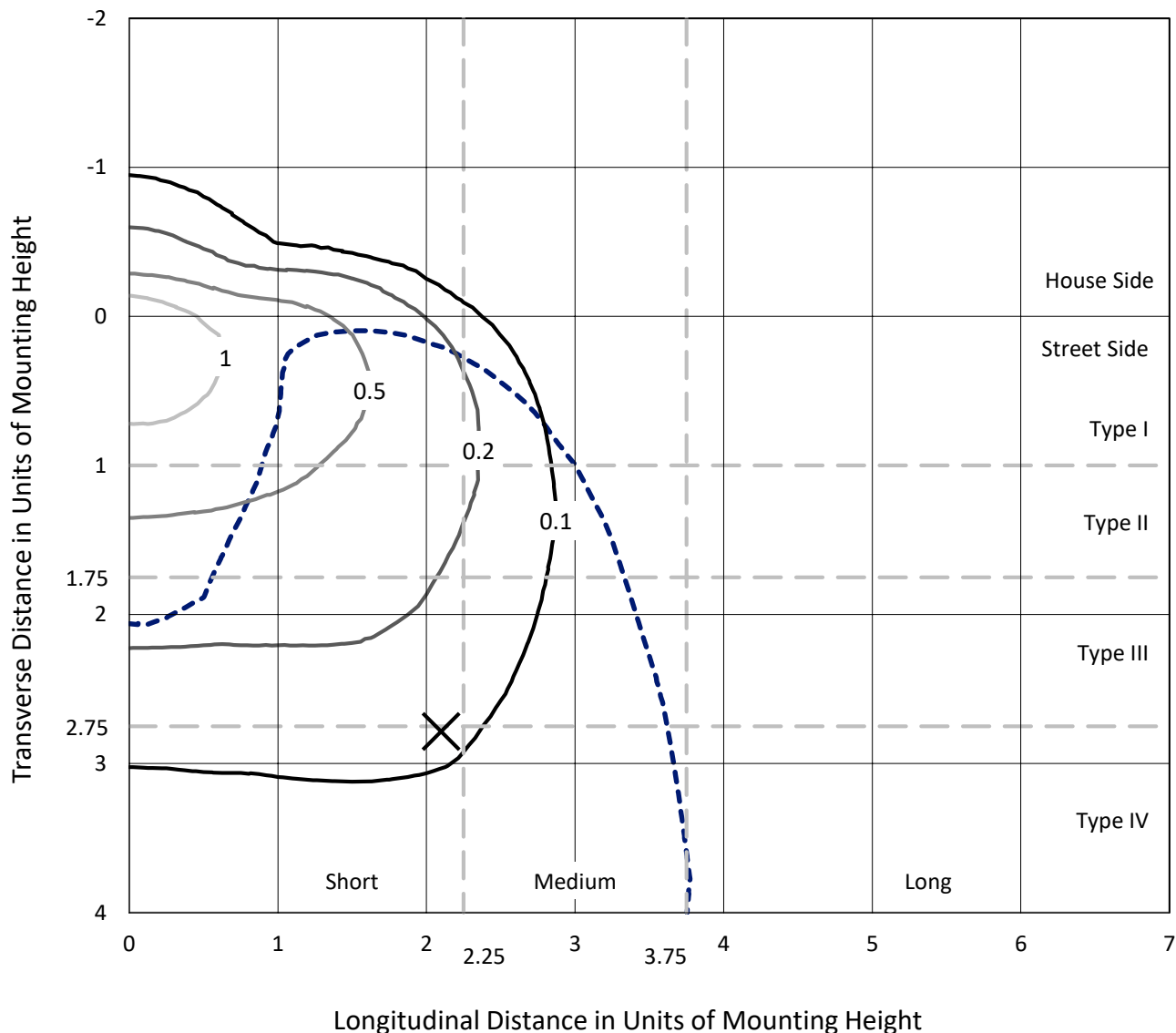
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

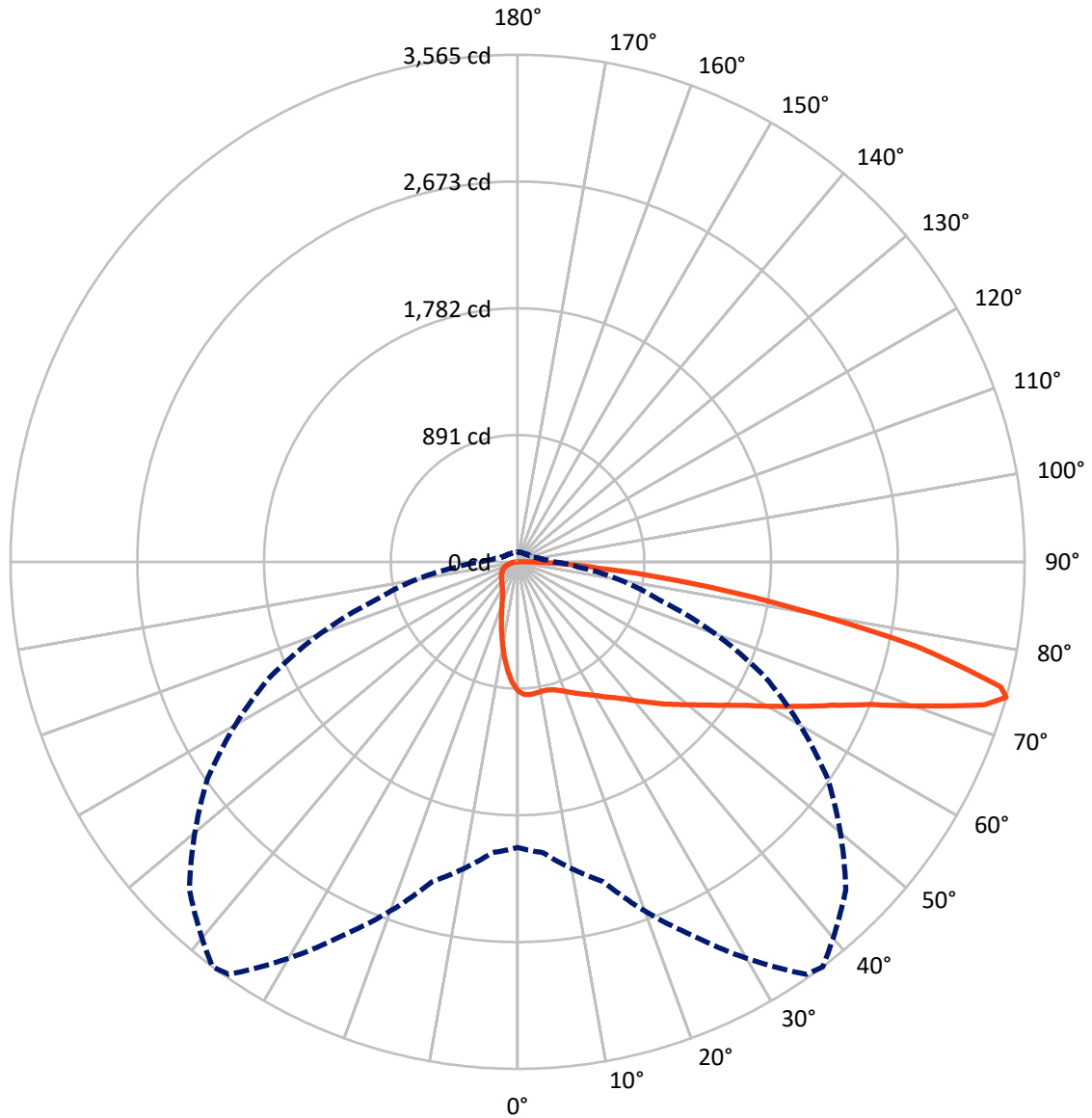
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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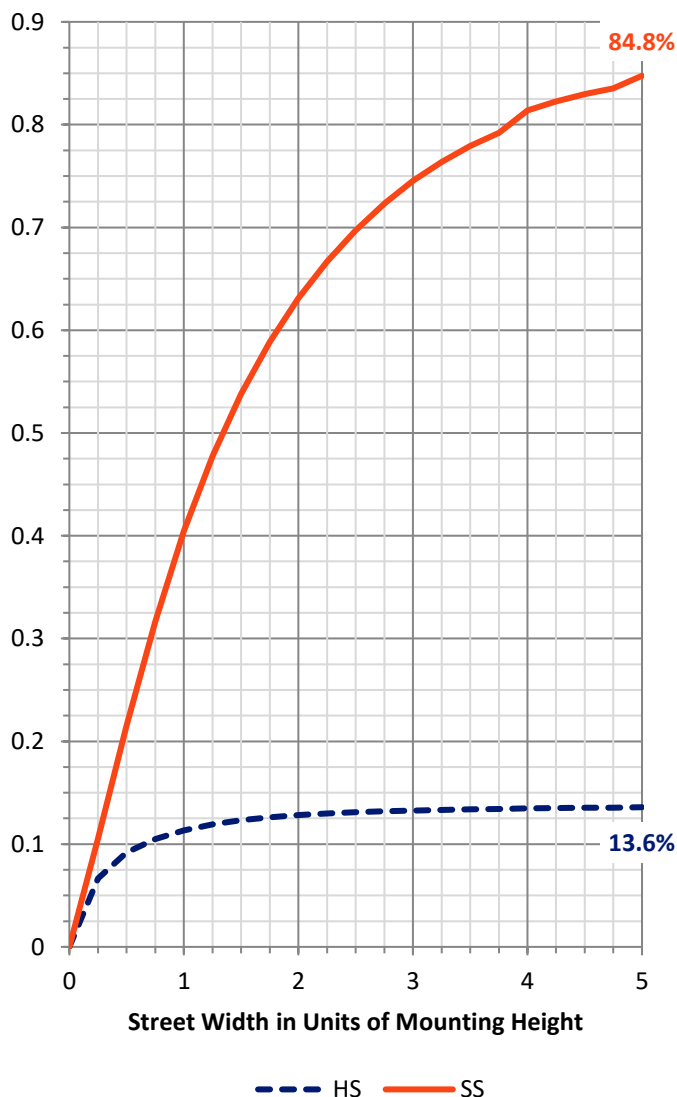
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 711.8 | 0.0 | 711.8 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 4461.2 | 0.0 | 4461.2 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 5173.0 | 0.0 | 5173.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.3 | 1.6 |
| 10°-20° | 205.7 | 4.0 |
| 20°-30° | 317.0 | 6.1 |
| 30°-40° | 461.0 | 8.9 |
| 40°-50° | 678.5 | 13.1 |
| 50°-60° | 952.8 | 18.4 |
| 60°-70° | 1205.9 | 23.3 |
| 70°-80° | 1061.9 | 20.5 |
| 80°-90° | 210.0 | 4.1 |
| 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° | 5173.0 | 100.0 |
| 0°-180° | 5173.0 | 100.0 |

Coefficient of Utilization

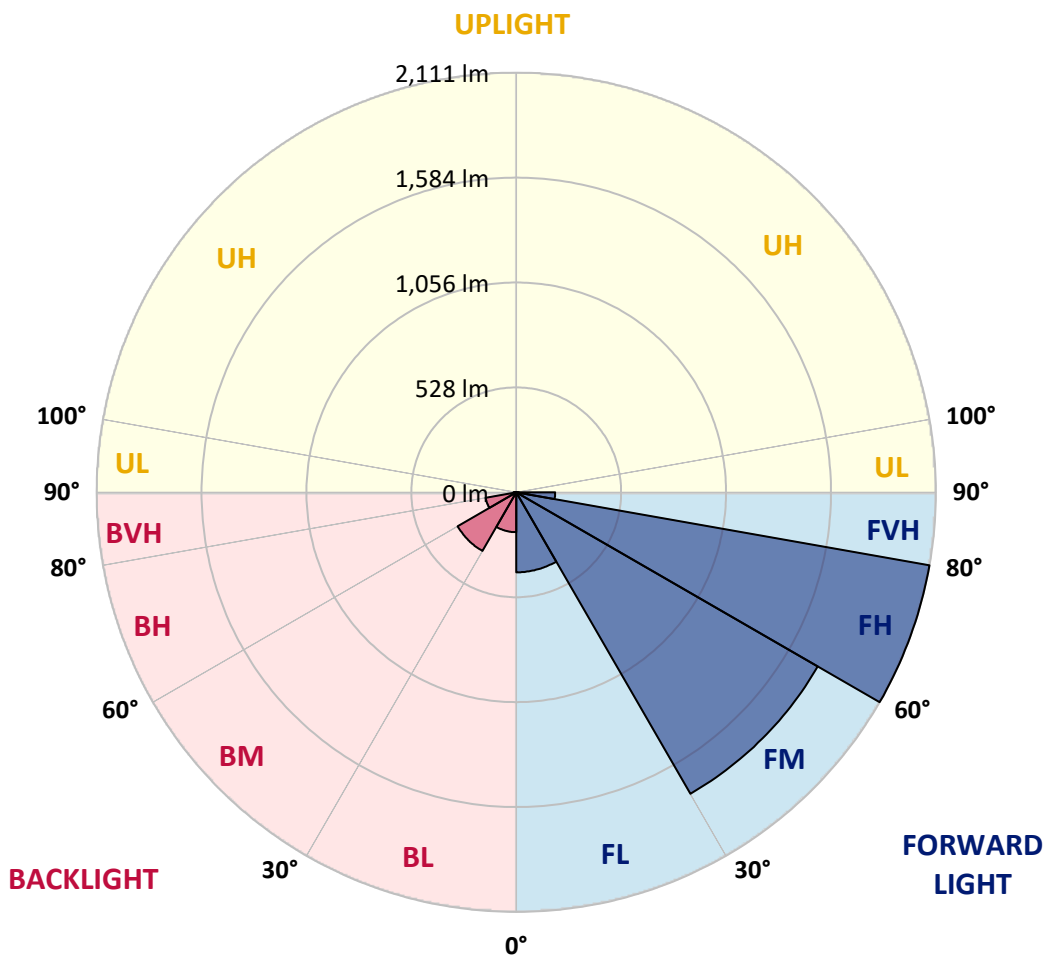


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 402.5 | 7.8 | | | |
| FM (30°-60°) | 1751.6 | 33.9 | | | |
| FH (60°-80°) | 2111.4 | 40.8 | | | G2/5000 |
| FVH (80°-90°) | 195.7 | 3.8 | | | G2/225 |
| BL (0°-30°) | 200.5 | 3.9 | B1/500 | | |
| BM (30°-60°) | 340.6 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 156.5 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.2 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 |
| 2.5° | 942.6 | 942.8 | 942.6 | 941.2 | 937.7 | 934.8 | 932.4 | 929.0 | 921.3 | 915.5 | 906.7 |
| 5° | 951.6 | 950.5 | 949.7 | 947.0 | 941.5 | 938.2 | 933.7 | 927.1 | 914.6 | 902.9 | 888.7 |
| 7.5° | 947.4 | 946.1 | 944.4 | 941.2 | 935.0 | 932.2 | 925.9 | 917.3 | 902.2 | 886.9 | 866.5 |
| 10° | 934.4 | 934.1 | 933.3 | 932.6 | 927.3 | 925.1 | 919.3 | 910.2 | 895.2 | 876.7 | 852.8 |
| 12.5° | 920.0 | 920.9 | 923.9 | 927.7 | 925.3 | 924.2 | 920.6 | 914.4 | 899.1 | 879.0 | 850.2 |
| 15° | 910.9 | 913.5 | 921.3 | 931.3 | 933.3 | 933.0 | 932.1 | 928.0 | 911.8 | 889.6 | 856.1 |
| 17.5° | 907.8 | 912.0 | 927.0 | 943.5 | 949.4 | 950.6 | 951.0 | 944.1 | 926.0 | 902.5 | 862.1 |
| 20° | 913.5 | 918.8 | 940.6 | 963.4 | 972.7 | 973.4 | 971.8 | 959.8 | 939.5 | 913.6 | 865.4 |
| 22.5° | 930.6 | 935.3 | 962.7 | 988.4 | 998.9 | 1000.0 | 995.1 | 976.9 | 953.7 | 926.8 | 869.9 |
| 25° | 963.6 | 969.4 | 996.7 | 1022.4 | 1027.9 | 1028.1 | 1021.0 | 998.4 | 972.3 | 945.2 | 879.8 |
| 27.5° | 1006.6 | 1012.4 | 1037.0 | 1062.2 | 1059.2 | 1057.6 | 1047.9 | 1025.3 | 996.6 | 970.5 | 897.2 |
| 30° | 1054.5 | 1060.9 | 1084.2 | 1102.1 | 1095.1 | 1091.9 | 1084.0 | 1054.9 | 1030.3 | 1005.1 | 924.0 |
| 32.5° | 1104.1 | 1109.9 | 1130.3 | 1142.5 | 1133.8 | 1132.3 | 1120.5 | 1093.9 | 1074.2 | 1058.0 | 967.4 |
| 35° | 1154.9 | 1159.1 | 1179.1 | 1186.1 | 1174.4 | 1174.0 | 1170.8 | 1146.3 | 1134.0 | 1141.6 | 1030.5 |
| 37.5° | 1206.8 | 1207.9 | 1225.1 | 1225.4 | 1222.0 | 1223.4 | 1226.9 | 1211.6 | 1215.0 | 1238.9 | 1112.5 |
| 40° | 1253.1 | 1256.0 | 1268.4 | 1272.3 | 1278.3 | 1283.4 | 1300.7 | 1290.7 | 1317.4 | 1359.7 | 1214.5 |
| 42.5° | 1287.4 | 1293.0 | 1312.9 | 1322.7 | 1342.2 | 1350.2 | 1374.7 | 1384.0 | 1437.9 | 1501.3 | 1335.9 |
| 45° | 1316.4 | 1325.1 | 1357.0 | 1377.2 | 1410.2 | 1424.2 | 1459.2 | 1490.4 | 1574.0 | 1654.9 | 1463.6 |
| 47.5° | 1347.7 | 1358.8 | 1398.7 | 1437.3 | 1482.2 | 1498.0 | 1561.6 | 1608.3 | 1719.2 | 1809.4 | 1584.0 |
| 50° | 1393.8 | 1402.4 | 1441.4 | 1502.0 | 1558.0 | 1578.4 | 1666.4 | 1733.3 | 1866.8 | 1956.7 | 1688.4 |
| 52.5° | 1458.1 | 1454.8 | 1487.8 | 1572.9 | 1648.0 | 1673.1 | 1778.3 | 1866.3 | 2016.4 | 2089.9 | 1776.6 |
| 55° | 1522.8 | 1517.3 | 1540.5 | 1647.1 | 1753.0 | 1779.4 | 1901.5 | 1999.9 | 2158.8 | 2209.8 | 1844.2 |
| 57.5° | 1594.8 | 1584.4 | 1603.9 | 1730.7 | 1872.5 | 1904.0 | 2039.4 | 2141.8 | 2298.7 | 2306.7 | 1887.2 |
| 60° | 1668.9 | 1654.9 | 1676.8 | 1834.4 | 2024.3 | 2061.5 | 2200.8 | 2280.3 | 2430.6 | 2384.3 | 1901.1 |
| 62.5° | 1733.8 | 1724.0 | 1757.7 | 1950.1 | 2195.4 | 2236.2 | 2359.4 | 2427.5 | 2560.7 | 2416.6 | 1851.2 |
| 65° | 1790.5 | 1792.1 | 1850.4 | 2080.2 | 2386.2 | 2429.7 | 2541.2 | 2609.0 | 2663.1 | 2397.5 | 1734.4 |
| 67.5° | 1858.1 | 1867.4 | 1966.9 | 2251.5 | 2626.3 | 2674.1 | 2805.8 | 2806.9 | 2720.4 | 2285.2 | 1504.4 |
| 70° | 1956.7 | 1975.8 | 2127.0 | 2489.1 | 2967.8 | 3033.4 | 3135.1 | 2923.2 | 2640.0 | 1980.9 | 1183.7 |
| 72.5° | 2044.1 | 2079.9 | 2297.4 | 2761.0 | 3384.0 | 3433.7 | 3327.7 | 2856.1 | 2304.2 | 1484.5 | 737.4 |
| 74° | 2008.6 | 2052.9 | 2328.4 | 2894.9 | 3540.7 | 3564.6 | 3262.6 | 2660.4 | 1921.1 | 1028.1 | 428.6 |
| 75° | 1932.1 | 1980.2 | 2283.2 | 2893.6 | 3520.8 | 3507.5 | 3105.6 | 2436.8 | 1582.2 | 701.2 | 285.2 |
| 77.5° | 1559.3 | 1610.1 | 1923.9 | 2480.0 | 2886.9 | 2874.3 | 2385.6 | 1634.7 | 693.0 | 230.0 | 144.9 |
| 80° | 906.5 | 945.4 | 1194.3 | 1574.9 | 1946.7 | 1969.4 | 1568.9 | 808.9 | 272.6 | 129.2 | 98.2 |
| 82.5° | 402.7 | 429.5 | 576.9 | 804.0 | 1174.8 | 1204.1 | 821.6 | 423.8 | 168.4 | 78.5 | 59.0 |
| 85° | 264.2 | 284.1 | 350.2 | 382.8 | 559.4 | 579.5 | 402.2 | 330.0 | 111.2 | 43.2 | 43.4 |
| 87.5° | 190.1 | 209.2 | 260.2 | 227.2 | 256.7 | 243.1 | 218.8 | 305.4 | 44.6 | 24.6 | 14.6 |
| 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° | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 | 911.5 |
| 2.5° | 902.9 | 900.0 | 893.4 | 881.0 | 874.1 | 868.3 | 858.6 | 853.0 | 850.4 | 850.2 | 851.3 |
| 5° | 880.5 | 873.7 | 856.8 | 836.0 | 819.4 | 804.3 | 785.5 | 774.3 | 766.2 | 761.5 | 762.8 |
| 7.5° | 854.4 | 843.9 | 817.3 | 784.1 | 757.5 | 728.1 | 699.2 | 681.9 | 668.4 | 658.4 | 660.2 |
| 10° | 836.6 | 822.0 | 783.2 | 735.4 | 691.2 | 648.5 | 608.6 | 584.7 | 565.8 | 551.2 | 552.3 |
| 12.5° | 830.6 | 810.9 | 757.1 | 693.3 | 631.2 | 572.9 | 520.8 | 484.2 | 464.7 | 448.1 | 449.4 |
| 15° | 831.5 | 805.0 | 735.3 | 655.4 | 577.3 | 503.8 | 440.6 | 397.8 | 371.4 | 359.9 | 360.1 |
| 17.5° | 832.2 | 798.3 | 712.3 | 614.8 | 523.9 | 439.3 | 370.6 | 327.3 | 302.3 | 291.7 | 291.9 |
| 20° | 829.8 | 787.4 | 683.9 | 568.2 | 468.1 | 380.1 | 313.6 | 276.8 | 257.8 | 249.6 | 249.6 |
| 22.5° | 826.7 | 774.4 | 651.8 | 521.3 | 413.1 | 328.7 | 272.8 | 244.7 | 233.8 | 228.3 | 228.1 |
| 25° | 828.2 | 764.8 | 619.0 | 473.2 | 362.4 | 287.7 | 245.6 | 227.0 | 219.8 | 216.3 | 216.1 |
| 27.5° | 836.0 | 760.2 | 588.8 | 425.3 | 318.2 | 256.9 | 227.4 | 214.3 | 209.6 | 207.4 | 207.4 |
| 30° | 850.2 | 760.2 | 557.2 | 384.5 | 281.3 | 234.2 | 213.4 | 204.5 | 201.2 | 199.7 | 199.7 |
| 32.5° | 875.0 | 764.4 | 526.8 | 344.0 | 252.0 | 216.3 | 201.7 | 195.7 | 193.2 | 192.4 | 192.4 |
| 35° | 917.7 | 778.6 | 497.1 | 305.8 | 228.3 | 201.7 | 190.6 | 187.1 | 185.3 | 185.1 | 185.7 |
| 37.5° | 977.6 | 807.6 | 469.2 | 277.5 | 211.6 | 189.9 | 181.3 | 178.6 | 177.5 | 178.4 | 179.1 |
| 40° | 1053.0 | 847.0 | 443.9 | 252.0 | 198.8 | 180.4 | 172.7 | 170.9 | 170.4 | 171.7 | 172.7 |
| 42.5° | 1144.2 | 900.2 | 423.1 | 233.6 | 189.0 | 172.4 | 165.5 | 163.3 | 162.7 | 164.2 | 165.6 |
| 45° | 1242.7 | 957.4 | 408.5 | 219.9 | 181.3 | 166.4 | 159.1 | 156.7 | 155.6 | 156.3 | 158.0 |
| 47.5° | 1332.4 | 1011.5 | 402.7 | 210.3 | 174.0 | 161.3 | 153.4 | 150.5 | 148.7 | 148.3 | 149.6 |
| 50° | 1408.0 | 1051.8 | 405.4 | 204.5 | 168.2 | 155.6 | 148.0 | 144.7 | 141.9 | 140.3 | 141.2 |
| 52.5° | 1463.0 | 1077.1 | 408.0 | 201.9 | 163.6 | 149.4 | 141.9 | 138.9 | 135.2 | 132.5 | 132.5 |
| 55° | 1502.9 | 1082.9 | 402.3 | 199.9 | 160.2 | 142.7 | 135.2 | 132.3 | 128.6 | 125.5 | 125.2 |
| 57.5° | 1518.6 | 1066.5 | 381.4 | 197.0 | 157.8 | 136.3 | 128.1 | 125.9 | 122.8 | 119.2 | 119.0 |
| 60° | 1497.5 | 1015.9 | 340.9 | 190.8 | 154.7 | 131.0 | 121.0 | 119.5 | 118.1 | 114.6 | 114.4 |
| 62.5° | 1412.6 | 904.7 | 288.6 | 178.2 | 148.5 | 125.4 | 114.4 | 115.2 | 115.3 | 113.0 | 112.6 |
| 65° | 1258.6 | 752.0 | 237.6 | 161.8 | 139.2 | 118.6 | 107.7 | 111.2 | 113.2 | 112.8 | 112.2 |
| 67.5° | 1034.8 | 585.3 | 201.4 | 144.5 | 127.0 | 109.3 | 100.4 | 104.4 | 106.1 | 107.3 | 107.0 |
| 70° | 768.1 | 412.7 | 166.5 | 126.3 | 112.2 | 98.4 | 90.9 | 92.9 | 91.8 | 93.3 | 93.8 |
| 72.5° | 428.2 | 247.6 | 135.8 | 108.1 | 96.9 | 85.6 | 80.4 | 80.0 | 77.6 | 77.6 | 77.6 |
| 74° | 256.9 | 181.7 | 119.4 | 96.8 | 87.6 | 77.3 | 72.7 | 71.1 | 68.9 | 69.1 | 68.9 |
| 75° | 206.6 | 156.2 | 109.5 | 89.3 | 81.1 | 72.3 | 67.8 | 65.6 | 64.0 | 64.0 | 63.8 |
| 77.5° | 130.5 | 118.6 | 88.2 | 71.1 | 64.9 | 59.6 | 56.5 | 53.6 | 53.6 | 53.4 | 53.2 |
| 80° | 98.6 | 94.4 | 68.7 | 53.8 | 49.7 | 45.7 | 43.7 | 42.5 | 42.5 | 43.0 | 42.8 |
| 82.5° | 67.6 | 71.1 | 48.3 | 37.5 | 35.5 | 32.6 | 32.3 | 32.4 | 31.9 | 31.2 | 31.0 |
| 85° | 49.4 | 53.4 | 32.6 | 23.7 | 21.7 | 19.9 | 21.3 | 22.0 | 21.1 | 19.5 | 18.8 |
| 87.5° | 19.0 | 35.0 | 17.5 | 9.8 | 9.1 | 7.8 | 9.1 | 9.5 | 10.2 | 8.0 | 8.2 |
| 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)