

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: P652661

Luminaire Tested: **GLAN-SA1C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4896.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

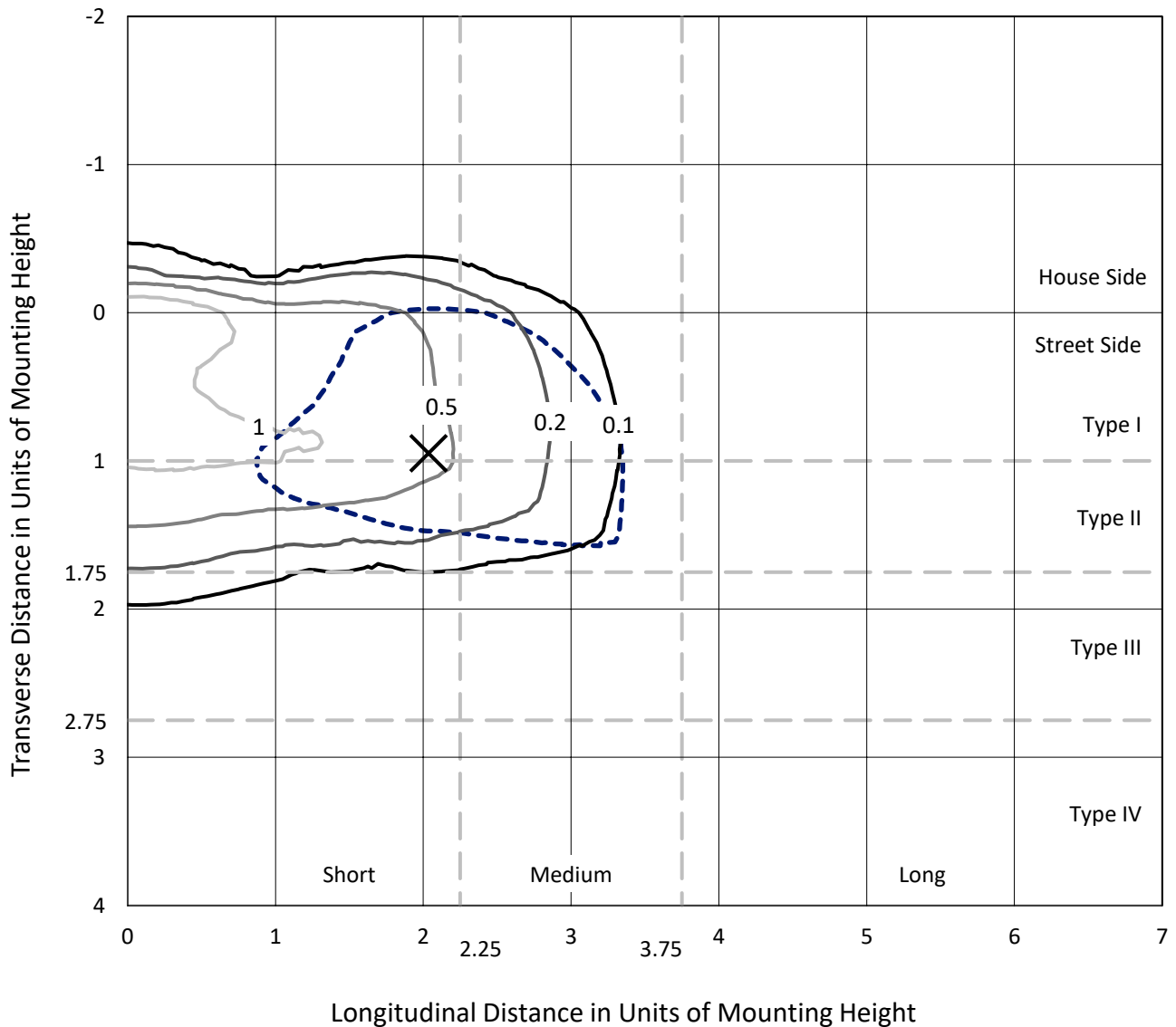
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

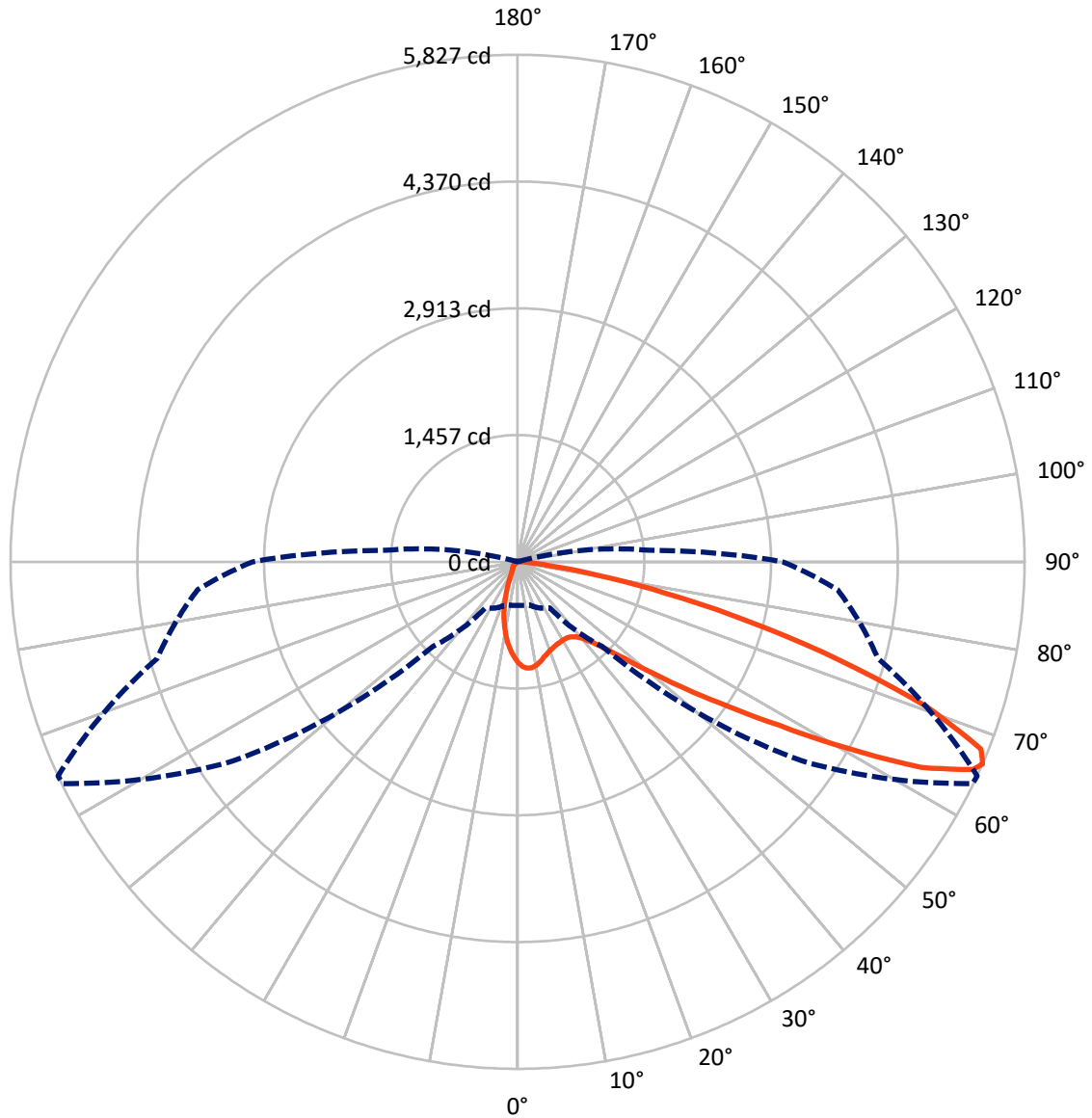
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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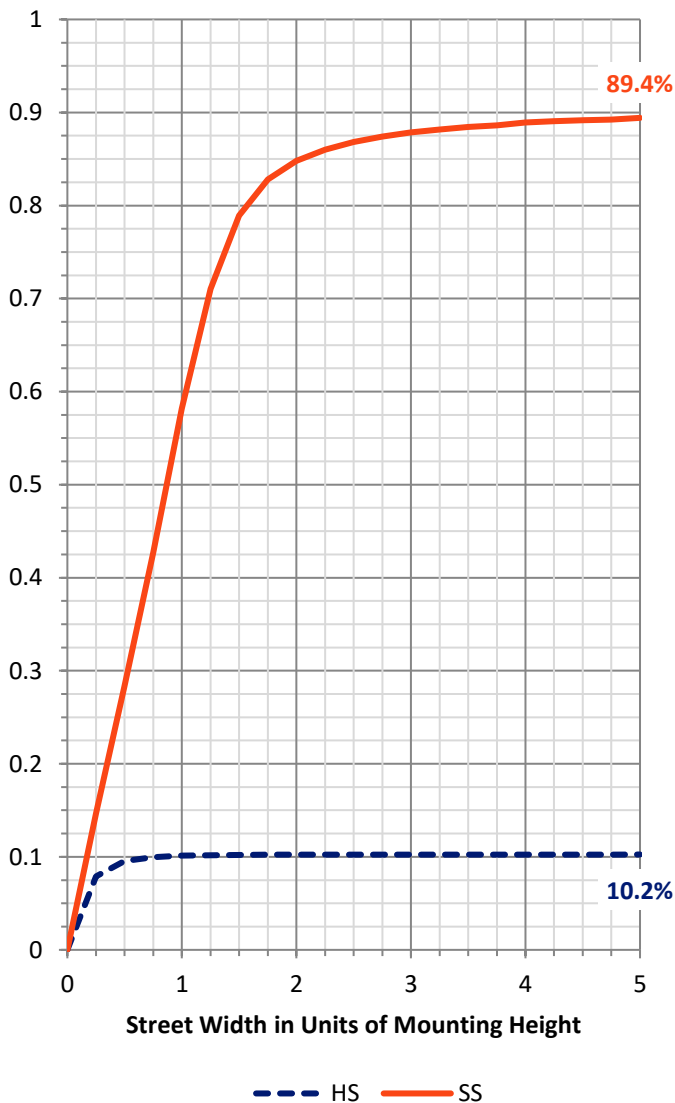
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 506.4 | 0.0 | 506.4 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 4390.0 | 0.0 | 4390.0 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 4896.3 | 0.0 | 4896.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.0 | 1.9 |
| 10°-20° | 206.9 | 4.2 |
| 20°-30° | 296.4 | 6.1 |
| 30°-40° | 432.9 | 8.8 |
| 40°-50° | 725.9 | 14.8 |
| 50°-60° | 1211.4 | 24.7 |
| 60°-70° | 1285.9 | 26.3 |
| 70°-80° | 582.4 | 11.9 |
| 80°-90° | 59.6 | 1.2 |
| 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° | 4896.3 | 100.0 |
| 0°-180° | 4896.3 | 100.0 |

Coefficient of Utilization



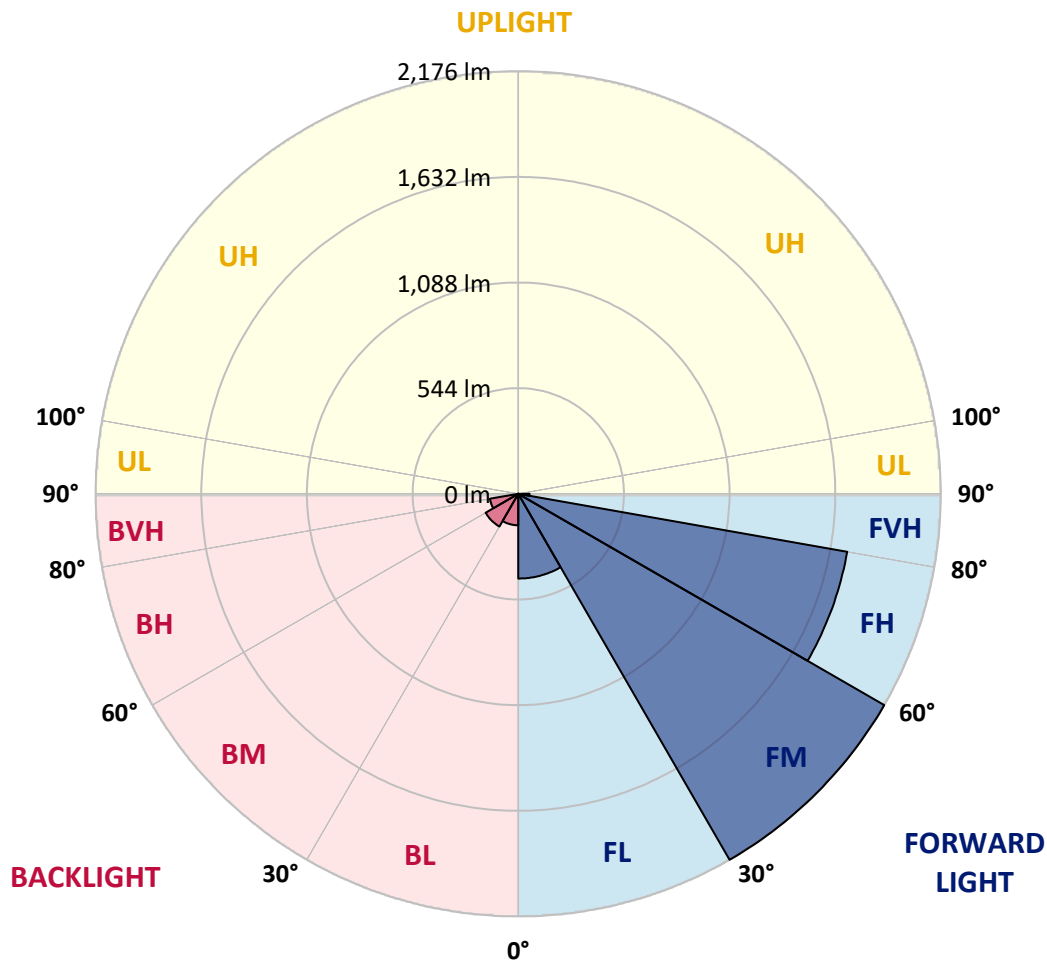
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 436.3 | 8.9 | | | |
| FM (30°-60°) | 2176.0 | 44.4 | | | |
| FH (60°-80°) | 1720.0 | 35.1 | | | G1/1800 |
| FVH (80°-90°) | 57.7 | 1.2 | | | G1/100 |
| BL (0°-30°) | 162.0 | 3.3 | B1/500 | | |
| BM (30°-60°) | 194.2 | 4.0 | B0/220 | | |
| BH (60°-80°) | 148.3 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 0.0 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 |
| 2.5° | 1223.6 | 1224.9 | 1226.6 | 1228.9 | 1230.6 | 1225.6 | 1218.6 | 1210.7 | 1209.0 | 1192.2 | 1171.7 |
| 5° | 1158.1 | 1160.1 | 1174.6 | 1182.6 | 1200.4 | 1216.7 | 1226.9 | 1228.2 | 1227.5 | 1211.7 | 1178.9 |
| 7.5° | 1064.9 | 1070.5 | 1084.7 | 1098.6 | 1132.0 | 1162.8 | 1199.1 | 1224.6 | 1226.3 | 1222.0 | 1181.3 |
| 10° | 989.1 | 992.8 | 1000.0 | 1027.4 | 1055.3 | 1102.2 | 1153.2 | 1201.1 | 1205.1 | 1222.3 | 1179.3 |
| 12.5° | 929.9 | 935.2 | 944.2 | 965.3 | 998.7 | 1043.0 | 1100.9 | 1165.4 | 1173.7 | 1216.0 | 1173.7 |
| 15° | 888.6 | 891.2 | 900.2 | 921.0 | 953.4 | 994.4 | 1052.9 | 1128.0 | 1135.3 | 1207.8 | 1172.7 |
| 17.5° | 869.1 | 872.0 | 878.3 | 894.9 | 921.7 | 959.7 | 1016.9 | 1097.9 | 1107.2 | 1202.5 | 1176.3 |
| 20° | 874.4 | 877.0 | 877.3 | 885.9 | 904.2 | 936.2 | 990.4 | 1069.8 | 1081.7 | 1199.1 | 1182.3 |
| 22.5° | 904.5 | 904.8 | 900.8 | 896.8 | 903.1 | 926.3 | 974.2 | 1051.9 | 1064.2 | 1198.4 | 1189.2 |
| 25° | 949.4 | 950.4 | 943.9 | 929.9 | 917.4 | 929.3 | 970.6 | 1040.4 | 1051.3 | 1196.8 | 1193.5 |
| 27.5° | 1011.6 | 1011.3 | 1009.3 | 986.2 | 950.4 | 942.5 | 973.6 | 1034.1 | 1043.3 | 1192.2 | 1195.1 |
| 30° | 1098.6 | 1095.9 | 1091.6 | 1065.5 | 1011.0 | 974.6 | 986.2 | 1030.1 | 1038.7 | 1185.6 | 1190.9 |
| 32.5° | 1184.2 | 1194.1 | 1193.5 | 1168.7 | 1100.6 | 1031.8 | 1012.3 | 1035.4 | 1041.7 | 1181.3 | 1184.5 |
| 35° | 1284.1 | 1283.8 | 1309.3 | 1300.0 | 1220.3 | 1104.9 | 1056.9 | 1052.9 | 1057.9 | 1184.2 | 1181.6 |
| 37.5° | 1376.7 | 1385.3 | 1425.0 | 1434.6 | 1361.8 | 1208.0 | 1120.1 | 1090.7 | 1092.3 | 1204.4 | 1188.8 |
| 40° | 1492.1 | 1508.7 | 1567.9 | 1599.9 | 1535.8 | 1361.2 | 1213.3 | 1159.7 | 1160.1 | 1254.0 | 1216.3 |
| 42.5° | 1641.0 | 1667.0 | 1722.3 | 1775.9 | 1741.5 | 1542.4 | 1353.3 | 1269.2 | 1268.6 | 1341.3 | 1279.2 |
| 45° | 1821.9 | 1840.0 | 1902.8 | 1987.9 | 1966.0 | 1795.4 | 1556.9 | 1438.9 | 1430.3 | 1484.5 | 1390.6 |
| 47.5° | 1977.9 | 2002.8 | 2066.6 | 2163.5 | 2262.6 | 2104.3 | 1800.3 | 1672.0 | 1666.4 | 1712.4 | 1581.8 |
| 50° | 2046.1 | 2067.9 | 2135.0 | 2271.0 | 2511.3 | 2509.7 | 2162.8 | 2012.3 | 2002.8 | 2027.6 | 1877.4 |
| 52.5° | 1971.3 | 1991.8 | 2059.6 | 2228.9 | 2628.4 | 3003.8 | 2687.9 | 2439.2 | 2427.7 | 2395.9 | 2230.6 |
| 55° | 1715.4 | 1732.2 | 1832.5 | 2026.9 | 2583.5 | 3333.1 | 3411.5 | 2966.7 | 2921.7 | 2798.4 | 2630.4 |
| 57.5° | 1365.8 | 1357.2 | 1419.4 | 1645.2 | 2319.6 | 3443.6 | 4154.3 | 3623.9 | 3543.5 | 3146.3 | 2968.7 |
| 60° | 946.5 | 973.0 | 998.1 | 1146.9 | 1744.1 | 3252.1 | 4616.2 | 4449.9 | 4344.1 | 3488.6 | 3292.8 |
| 62.5° | 695.8 | 713.3 | 729.8 | 798.6 | 1096.6 | 2596.7 | 4697.9 | 5298.5 | 5204.6 | 3852.0 | 3602.0 |
| 65° | 550.3 | 551.6 | 558.3 | 626.0 | 722.6 | 1688.6 | 4305.4 | 5777.0 | 5752.9 | 4201.9 | 3727.3 |
| 66° | 501.3 | 501.7 | 511.9 | 584.7 | 648.5 | 1375.0 | 3990.9 | 5813.4 | 5826.6 | 4285.9 | 3690.6 |
| 67.5° | 438.2 | 436.8 | 451.7 | 525.5 | 590.6 | 991.5 | 3428.1 | 5665.9 | 5744.3 | 4350.4 | 3558.7 |
| 70° | 339.6 | 338.0 | 356.2 | 440.9 | 544.0 | 661.4 | 2278.5 | 4864.9 | 4991.3 | 4218.5 | 3148.6 |
| 72.5° | 226.2 | 227.5 | 258.6 | 347.9 | 519.2 | 582.4 | 1370.7 | 3700.9 | 3879.4 | 3483.6 | 2477.0 |
| 75° | 132.0 | 134.2 | 169.6 | 258.6 | 450.8 | 555.2 | 775.8 | 2639.0 | 2753.1 | 2405.5 | 1543.1 |
| 77.5° | 69.1 | 70.1 | 94.9 | 170.6 | 345.6 | 515.5 | 516.9 | 1686.0 | 1739.5 | 1169.0 | 610.8 |
| 80° | 36.7 | 35.7 | 51.0 | 102.9 | 237.8 | 452.7 | 419.3 | 892.6 | 928.0 | 347.2 | 154.4 |
| 82.5° | 13.9 | 15.2 | 27.1 | 67.4 | 140.5 | 325.0 | 361.1 | 394.5 | 382.3 | 76.4 | 64.8 |
| 85° | 2.6 | 3.3 | 11.6 | 40.0 | 70.8 | 135.9 | 266.2 | 193.4 | 179.2 | 28.8 | 37.3 |
| 87.5° | 0.3 | 0.7 | 3.3 | 9.6 | 10.3 | 46.0 | 78.7 | 53.6 | 46.3 | 10.6 | 15.6 |
| 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° | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 | 1161.1 |
| 2.5° | 1161.8 | 1152.8 | 1123.1 | 1093.6 | 1063.5 | 1036.4 | 1017.9 | 987.8 | 980.2 | 969.3 | 963.0 |
| 5° | 1159.4 | 1138.6 | 1081.4 | 1018.9 | 960.7 | 897.9 | 849.9 | 803.6 | 778.8 | 766.2 | 761.6 |
| 7.5° | 1152.8 | 1119.8 | 1030.5 | 932.6 | 839.3 | 745.4 | 663.7 | 601.6 | 561.5 | 534.1 | 515.5 |
| 10° | 1139.6 | 1094.0 | 971.3 | 836.7 | 695.8 | 571.8 | 468.3 | 389.6 | 328.7 | 309.6 | 310.2 |
| 12.5° | 1126.0 | 1065.2 | 905.2 | 730.2 | 555.6 | 399.1 | 289.4 | 227.2 | 198.1 | 188.5 | 186.5 |
| 15° | 1113.5 | 1037.7 | 840.3 | 627.0 | 413.7 | 258.6 | 186.5 | 164.7 | 156.8 | 155.1 | 154.7 |
| 17.5° | 1106.8 | 1012.3 | 771.2 | 509.0 | 288.7 | 175.6 | 149.4 | 143.6 | 141.2 | 139.5 | 138.9 |
| 20° | 1101.2 | 990.1 | 705.1 | 398.5 | 197.5 | 143.9 | 134.0 | 128.3 | 124.4 | 122.7 | 121.7 |
| 22.5° | 1097.3 | 967.3 | 636.6 | 308.6 | 151.1 | 127.7 | 118.7 | 111.4 | 105.8 | 103.9 | 102.5 |
| 25° | 1091.3 | 942.2 | 567.5 | 225.6 | 127.3 | 113.5 | 103.2 | 94.6 | 87.3 | 83.7 | 83.0 |
| 27.5° | 1082.7 | 913.7 | 491.7 | 167.0 | 113.8 | 100.8 | 88.3 | 77.7 | 70.5 | 66.4 | 66.8 |
| 30° | 1068.8 | 884.0 | 416.0 | 132.6 | 102.9 | 88.0 | 74.4 | 64.2 | 57.2 | 54.2 | 53.9 |
| 32.5° | 1052.3 | 847.9 | 346.6 | 113.8 | 92.9 | 76.4 | 62.1 | 53.2 | 47.9 | 45.7 | 45.3 |
| 35° | 1036.8 | 811.6 | 275.8 | 102.2 | 82.7 | 65.9 | 52.2 | 44.7 | 40.7 | 38.7 | 39.0 |
| 37.5° | 1028.1 | 779.1 | 215.0 | 92.9 | 74.4 | 56.5 | 45.0 | 38.3 | 34.7 | 33.1 | 32.7 |
| 40° | 1033.8 | 752.7 | 171.0 | 84.7 | 65.2 | 48.6 | 38.7 | 33.1 | 29.4 | 27.1 | 27.1 |
| 42.5° | 1060.2 | 741.1 | 137.9 | 76.7 | 56.5 | 42.0 | 33.7 | 28.4 | 24.5 | 22.1 | 22.5 |
| 45° | 1140.9 | 753.4 | 115.4 | 69.5 | 48.6 | 36.4 | 29.1 | 23.5 | 19.8 | 18.2 | 17.8 |
| 47.5° | 1274.9 | 799.3 | 99.9 | 61.8 | 41.6 | 31.1 | 24.5 | 19.5 | 15.9 | 14.5 | 14.2 |
| 50° | 1509.0 | 894.2 | 88.3 | 54.2 | 35.4 | 26.5 | 20.2 | 15.6 | 12.5 | 11.3 | 11.3 |
| 52.5° | 1831.1 | 1101.2 | 80.1 | 45.7 | 29.8 | 22.5 | 16.6 | 12.5 | 9.9 | 8.9 | 8.6 |
| 55° | 2167.8 | 1319.5 | 75.7 | 38.3 | 24.8 | 18.5 | 13.2 | 9.9 | 7.6 | 6.6 | 6.3 |
| 57.5° | 2491.5 | 1490.8 | 70.8 | 31.1 | 19.8 | 14.2 | 10.3 | 7.6 | 5.3 | 4.6 | 4.3 |
| 60° | 2802.0 | 1629.4 | 60.2 | 24.8 | 15.6 | 10.3 | 7.6 | 5.3 | 3.6 | 2.9 | 2.9 |
| 62.5° | 3079.8 | 1710.1 | 47.3 | 19.8 | 11.9 | 7.3 | 5.0 | 4.0 | 2.6 | 2.0 | 2.0 |
| 65° | 3112.2 | 1605.2 | 35.7 | 15.2 | 8.6 | 4.6 | 2.9 | 2.9 | 2.0 | 1.3 | 1.3 |
| 66° | 3047.1 | 1516.2 | 31.5 | 13.9 | 7.6 | 4.0 | 2.6 | 2.4 | 1.7 | 1.0 | 1.0 |
| 67.5° | 2901.6 | 1364.4 | 27.1 | 11.9 | 6.3 | 2.9 | 2.0 | 2.0 | 1.3 | 0.7 | 0.7 |
| 70° | 2507.0 | 1114.5 | 21.5 | 8.9 | 4.6 | 2.4 | 1.3 | 1.3 | 1.0 | 0.7 | 0.7 |
| 72.5° | 1910.8 | 832.1 | 17.5 | 6.6 | 3.3 | 1.7 | 1.0 | 1.0 | 1.0 | 0.7 | 0.7 |
| 75° | 1152.5 | 448.1 | 13.5 | 5.0 | 2.9 | 1.3 | 0.7 | 1.0 | 1.3 | 1.0 | 0.7 |
| 77.5° | 424.6 | 152.5 | 10.6 | 4.0 | 2.4 | 1.3 | 0.7 | 0.7 | 1.3 | 1.0 | 1.0 |
| 80° | 104.2 | 39.7 | 7.6 | 3.3 | 2.4 | 1.3 | 0.7 | 0.7 | 1.3 | 1.3 | 1.3 |
| 82.5° | 48.3 | 16.9 | 5.3 | 2.9 | 2.4 | 1.3 | 0.7 | 0.7 | 1.0 | 1.3 | 1.3 |
| 85° | 27.8 | 7.9 | 4.3 | 3.3 | 2.4 | 1.3 | 0.7 | 0.7 | 1.0 | 1.3 | 1.3 |
| 87.5° | 11.3 | 4.0 | 4.0 | 3.3 | 2.6 | 1.7 | 0.7 | 0.7 | 0.7 | 1.0 | 1.0 |
| 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)