

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386741

Luminaire Tested: GAW-SA2B-830-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-830-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9411 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

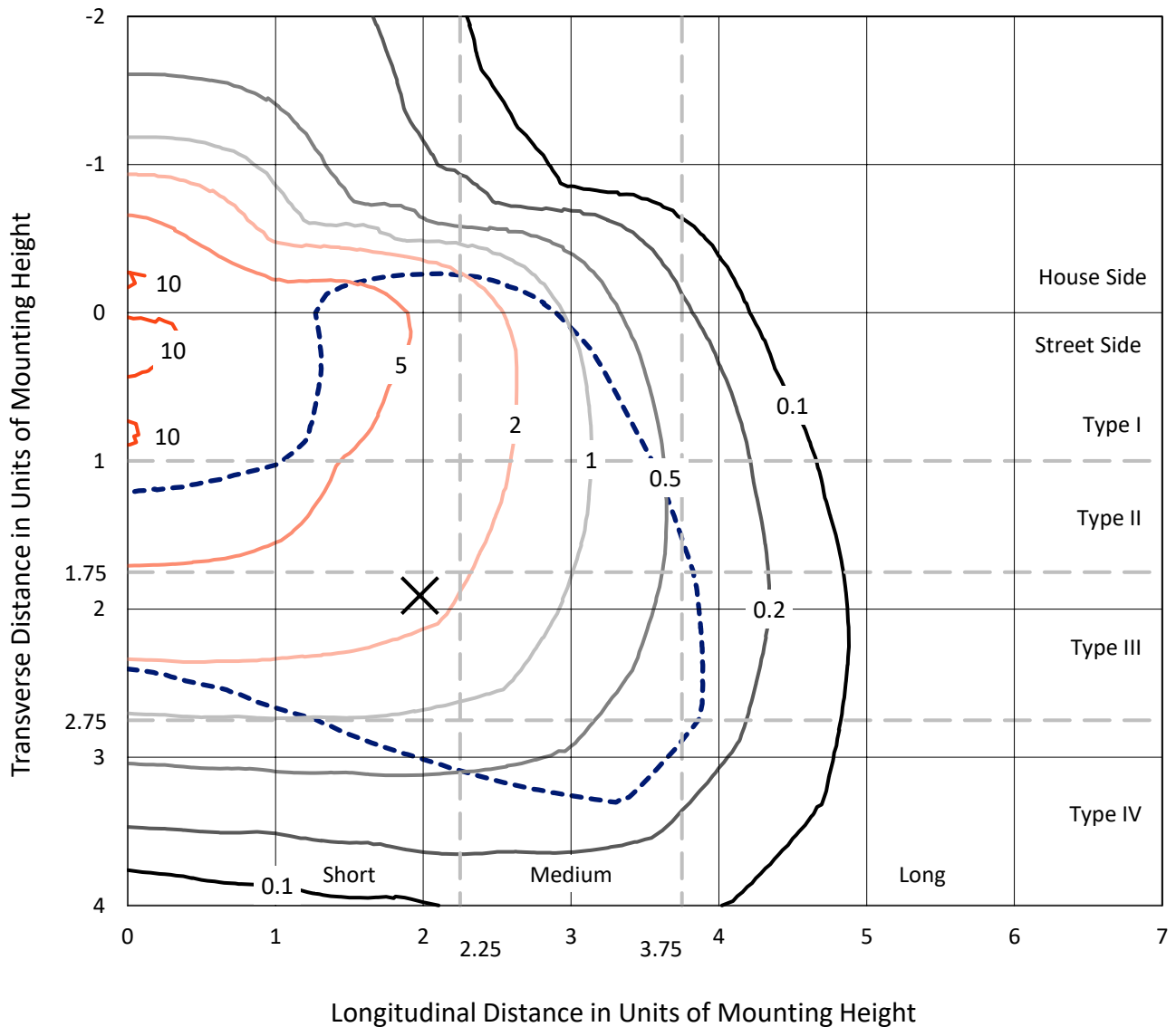
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

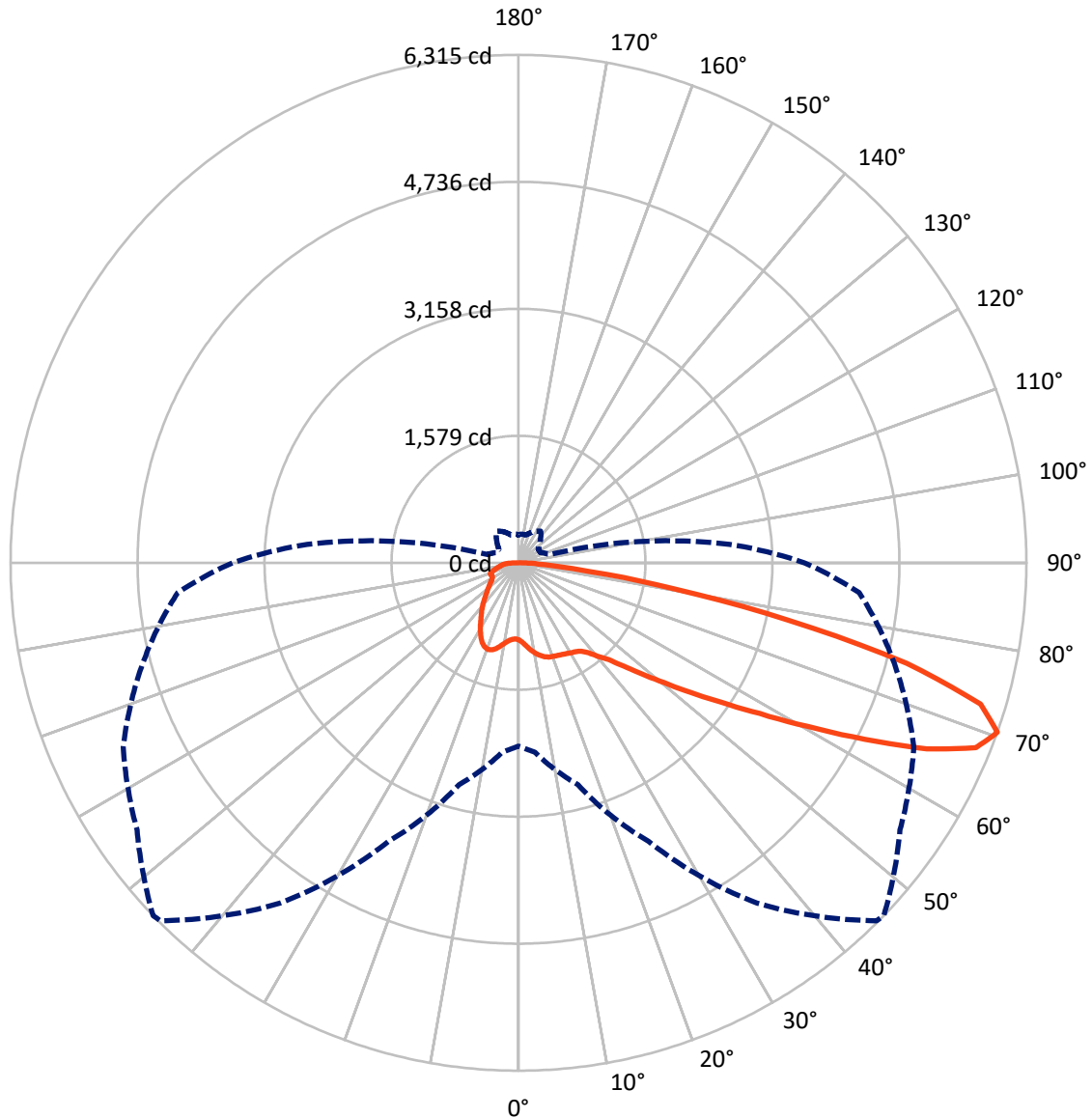
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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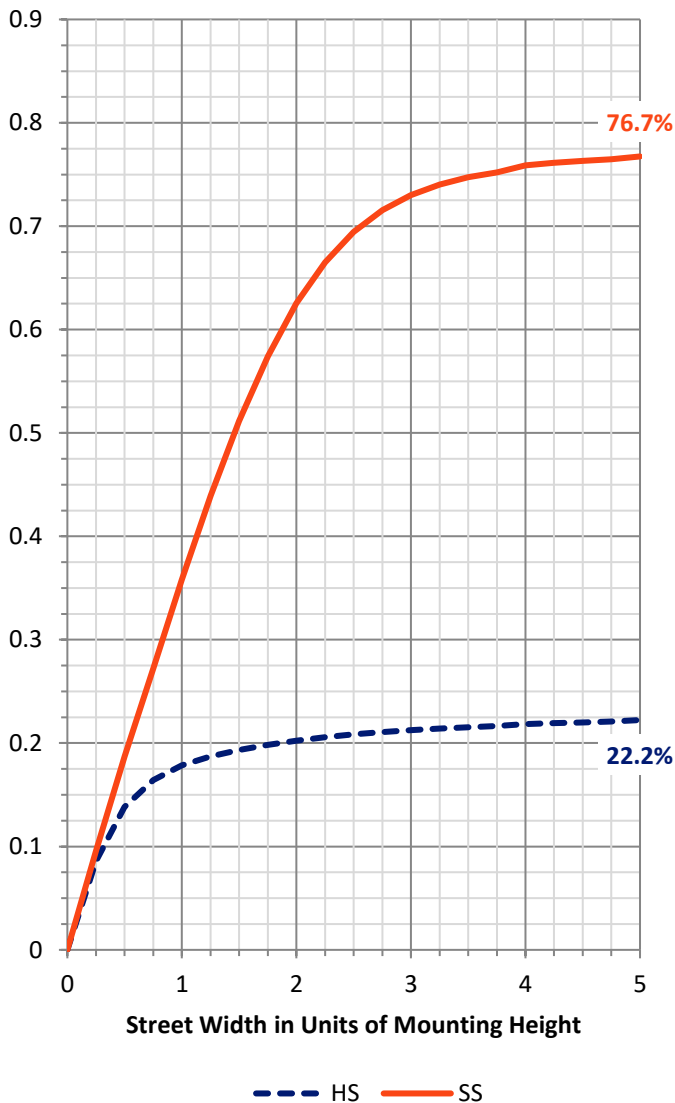
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2157.0 | 0.0 | 2157.0 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 7254.0 | 0.0 | 7254.0 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 9411.0 | 0.0 | 9411.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.7 | 1.0 |
| 10°-20° | 325.6 | 3.5 |
| 20°-30° | 543.0 | 5.8 |
| 30°-40° | 770.5 | 8.2 |
| 40°-50° | 1133.4 | 12.0 |
| 50°-60° | 1919.4 | 20.4 |
| 60°-70° | 2724.6 | 29.0 |
| 70°-80° | 1655.2 | 17.6 |
| 80°-90° | 241.6 | 2.6 |
| 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° | 9411.0 | 100.0 |
| 0°-180° | 9411.0 | 100.0 |

Coefficient of Utilization



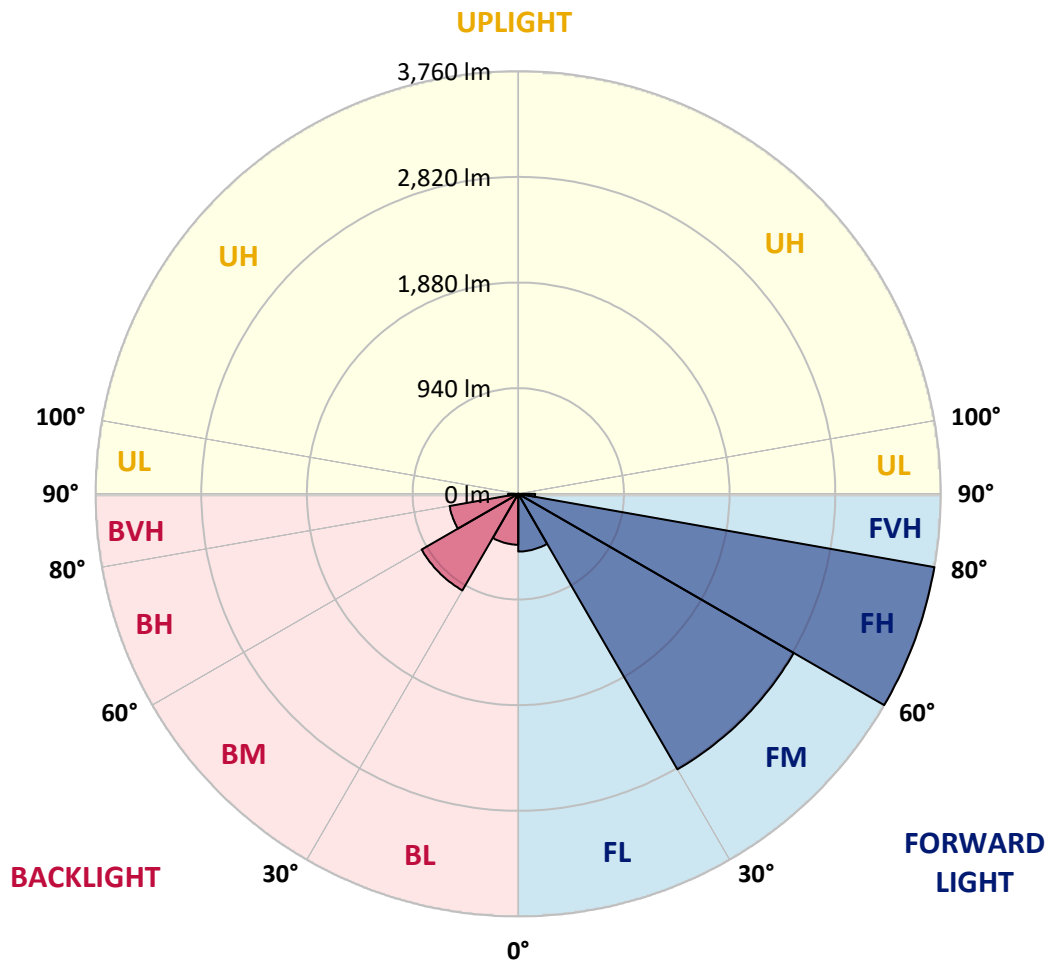
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 CATALOG NUMBER: GAW-SA2B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 513.5 | 5.5 | | | |
| FM (30°-60°) | 2830.4 | 30.1 | | | |
| FH (60°-80°) | 3759.6 | 39.9 | | | G2/5000 |
| FVH (80°-90°) | 150.5 | 1.6 | | | G2/225 |
| BL (0°-30°) | 452.9 | 4.8 | B1/500 | | |
| BM (30°-60°) | 992.9 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 620.1 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 91.1 | 1.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 |
| 2.5° | 1006.8 | 1007.4 | 1008.7 | 1005.5 | 996.5 | 993.9 | 992.9 | 983.6 | 977.5 | 968.5 | 960.7 |
| 5° | 1087.3 | 1087.9 | 1086.0 | 1077.0 | 1057.0 | 1042.2 | 1040.9 | 1019.7 | 1000.3 | 979.7 | 964.3 |
| 7.5° | 1171.4 | 1172.3 | 1166.2 | 1149.1 | 1121.1 | 1095.4 | 1093.7 | 1064.8 | 1035.4 | 1004.2 | 981.0 |
| 10° | 1245.8 | 1241.9 | 1231.9 | 1208.1 | 1174.9 | 1143.3 | 1142.1 | 1111.8 | 1078.0 | 1040.3 | 1009.4 |
| 12.5° | 1295.4 | 1292.1 | 1279.3 | 1250.3 | 1213.9 | 1184.9 | 1182.3 | 1154.3 | 1121.4 | 1080.2 | 1043.2 |
| 15° | 1322.7 | 1325.0 | 1307.6 | 1274.7 | 1239.3 | 1214.8 | 1212.6 | 1192.6 | 1163.3 | 1121.8 | 1079.3 |
| 17.5° | 1326.3 | 1328.2 | 1311.5 | 1278.9 | 1249.9 | 1233.2 | 1232.2 | 1219.0 | 1197.8 | 1157.8 | 1113.4 |
| 20° | 1305.7 | 1307.0 | 1293.1 | 1266.4 | 1247.4 | 1242.2 | 1241.9 | 1236.1 | 1220.3 | 1184.9 | 1141.7 |
| 22.5° | 1275.7 | 1276.7 | 1266.7 | 1247.4 | 1240.9 | 1249.0 | 1251.2 | 1249.0 | 1237.7 | 1204.5 | 1164.0 |
| 25° | 1268.3 | 1267.7 | 1257.4 | 1237.7 | 1243.2 | 1260.3 | 1263.2 | 1264.1 | 1256.4 | 1227.4 | 1192.3 |
| 27.5° | 1304.1 | 1301.8 | 1282.2 | 1250.6 | 1254.1 | 1274.7 | 1278.6 | 1288.0 | 1283.1 | 1257.7 | 1224.5 |
| 30° | 1407.4 | 1403.6 | 1363.3 | 1299.5 | 1282.2 | 1292.8 | 1297.6 | 1312.4 | 1313.4 | 1292.1 | 1267.3 |
| 32.5° | 1582.0 | 1577.2 | 1505.0 | 1391.0 | 1329.5 | 1311.1 | 1315.6 | 1337.9 | 1349.8 | 1333.4 | 1306.6 |
| 35° | 1802.6 | 1797.1 | 1702.5 | 1546.6 | 1408.7 | 1346.2 | 1349.5 | 1367.2 | 1391.0 | 1367.8 | 1332.4 |
| 37.5° | 2032.6 | 2019.4 | 1928.2 | 1729.5 | 1534.7 | 1421.3 | 1421.3 | 1423.5 | 1434.8 | 1386.5 | 1362.7 |
| 40° | 2261.2 | 2248.0 | 2165.6 | 1944.6 | 1697.6 | 1539.5 | 1532.1 | 1482.2 | 1473.1 | 1431.6 | 1423.5 |
| 42.5° | 2473.8 | 2469.9 | 2421.3 | 2187.8 | 1888.9 | 1655.8 | 1645.4 | 1560.7 | 1562.7 | 1536.9 | 1537.2 |
| 45° | 2699.9 | 2699.9 | 2660.3 | 2433.2 | 2111.8 | 1842.6 | 1832.2 | 1707.6 | 1726.9 | 1715.0 | 1743.7 |
| 47.5° | 2884.4 | 2890.2 | 2884.8 | 2688.9 | 2371.1 | 2079.9 | 2061.2 | 1911.2 | 1965.3 | 2006.2 | 2089.6 |
| 50° | 3072.9 | 3081.9 | 3082.8 | 2969.5 | 2684.4 | 2362.0 | 2340.8 | 2181.4 | 2302.1 | 2419.4 | 2583.3 |
| 52.5° | 3346.3 | 3366.6 | 3285.7 | 3249.3 | 3068.3 | 2697.0 | 2676.1 | 2528.9 | 2730.5 | 2895.1 | 3177.5 |
| 55° | 3599.8 | 3582.0 | 3524.4 | 3546.9 | 3479.3 | 3078.3 | 3062.5 | 2933.4 | 3207.8 | 3421.7 | 3788.5 |
| 57.5° | 3737.0 | 3735.7 | 3793.6 | 3890.3 | 3922.5 | 3548.5 | 3535.3 | 3409.7 | 3746.0 | 3906.7 | 4362.1 |
| 60° | 3898.0 | 3900.2 | 4043.9 | 4263.2 | 4395.9 | 4134.1 | 4128.3 | 4032.9 | 4268.7 | 4359.5 | 4812.0 |
| 62.5° | 3920.5 | 3961.1 | 4208.5 | 4585.9 | 4839.1 | 4818.1 | 4831.0 | 4594.3 | 4736.3 | 4720.9 | 5147.9 |
| 65° | 3661.3 | 3714.7 | 4162.4 | 4683.5 | 5279.7 | 5566.3 | 5578.2 | 5158.9 | 5105.1 | 5029.7 | 5268.1 |
| 67.5° | 3129.9 | 3209.1 | 3695.4 | 4471.3 | 5424.9 | 6119.3 | 6136.0 | 5596.6 | 5411.1 | 5134.4 | 4978.9 |
| 70° | 2277.7 | 2365.6 | 2855.1 | 3818.8 | 5166.0 | 6296.1 | 6315.1 | 5790.1 | 5422.7 | 4836.5 | 4250.3 |
| 72.5° | 1375.9 | 1444.8 | 1848.3 | 2811.3 | 4360.2 | 5974.0 | 6007.9 | 5544.7 | 4950.8 | 4096.7 | 3138.6 |
| 75° | 604.2 | 649.3 | 893.7 | 1620.0 | 3121.5 | 4942.8 | 4985.0 | 4746.0 | 4022.6 | 2977.2 | 1855.1 |
| 77.5° | 257.3 | 270.2 | 366.5 | 703.7 | 1764.6 | 3377.5 | 3435.5 | 3467.7 | 2729.2 | 1620.0 | 783.9 |
| 80° | 160.4 | 165.5 | 207.4 | 318.5 | 825.8 | 1897.0 | 1959.5 | 2040.3 | 1355.3 | 595.5 | 273.8 |
| 82.5° | 97.6 | 103.4 | 137.8 | 192.6 | 430.0 | 859.9 | 889.9 | 946.9 | 525.9 | 257.3 | 141.7 |
| 85° | 58.6 | 62.8 | 84.4 | 121.7 | 244.8 | 338.2 | 337.8 | 373.6 | 247.7 | 165.5 | 74.7 |
| 87.5° | 28.0 | 31.2 | 45.1 | 63.1 | 123.4 | 126.9 | 118.8 | 134.6 | 150.4 | 108.5 | 37.7 |
| 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° | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 | 958.8 |
| 2.5° | 958.2 | 956.9 | 952.7 | 949.5 | 948.8 | 946.9 | 945.3 | 946.2 | 947.5 | 947.8 | 947.8 |
| 5° | 957.8 | 954.3 | 948.8 | 946.6 | 949.5 | 953.3 | 958.2 | 964.6 | 968.5 | 971.4 | 973.3 |
| 7.5° | 973.3 | 966.5 | 960.4 | 959.1 | 964.9 | 975.2 | 986.2 | 999.7 | 1009.0 | 1015.5 | 1016.8 |
| 10° | 999.1 | 990.7 | 984.6 | 985.9 | 996.2 | 1011.0 | 1026.4 | 1043.8 | 1058.0 | 1066.7 | 1067.3 |
| 12.5° | 1028.7 | 1020.6 | 1014.8 | 1020.3 | 1037.4 | 1055.4 | 1071.5 | 1086.7 | 1099.5 | 1108.2 | 1108.2 |
| 15° | 1062.8 | 1057.0 | 1050.3 | 1062.8 | 1086.0 | 1102.1 | 1108.9 | 1116.3 | 1123.4 | 1129.8 | 1128.5 |
| 17.5° | 1095.7 | 1090.2 | 1086.7 | 1101.5 | 1125.6 | 1133.0 | 1128.5 | 1123.1 | 1123.1 | 1126.6 | 1127.2 |
| 20° | 1124.0 | 1119.2 | 1121.4 | 1135.9 | 1148.5 | 1140.8 | 1124.0 | 1106.6 | 1099.5 | 1101.5 | 1103.4 |
| 22.5° | 1148.8 | 1146.6 | 1153.3 | 1160.1 | 1151.1 | 1124.0 | 1093.1 | 1069.6 | 1060.9 | 1060.2 | 1060.9 |
| 25° | 1177.8 | 1177.5 | 1185.9 | 1173.6 | 1133.7 | 1083.8 | 1042.2 | 1019.3 | 1014.5 | 1018.4 | 1024.8 |
| 27.5° | 1213.9 | 1217.4 | 1221.6 | 1176.8 | 1098.3 | 1022.9 | 980.7 | 964.9 | 969.7 | 979.1 | 985.2 |
| 30° | 1259.9 | 1269.6 | 1260.6 | 1168.8 | 1047.4 | 953.3 | 913.1 | 908.6 | 921.8 | 935.0 | 941.4 |
| 32.5° | 1304.7 | 1319.8 | 1297.9 | 1147.9 | 981.7 | 879.6 | 848.3 | 847.0 | 863.1 | 876.0 | 885.0 |
| 35° | 1340.8 | 1370.7 | 1326.0 | 1106.3 | 905.7 | 811.6 | 788.7 | 780.0 | 785.8 | 801.0 | 811.3 |
| 37.5° | 1387.8 | 1437.7 | 1345.3 | 1042.9 | 823.2 | 755.6 | 728.8 | 708.9 | 703.7 | 709.8 | 715.0 |
| 40° | 1473.8 | 1539.8 | 1354.3 | 954.3 | 742.7 | 699.5 | 672.5 | 643.2 | 622.9 | 608.1 | 608.4 |
| 42.5° | 1614.2 | 1672.8 | 1348.5 | 846.7 | 668.3 | 644.8 | 614.2 | 580.4 | 547.5 | 514.0 | 511.4 |
| 45° | 1842.2 | 1870.6 | 1331.1 | 732.7 | 602.9 | 587.5 | 558.8 | 525.0 | 481.2 | 443.2 | 439.6 |
| 47.5° | 2207.1 | 2144.3 | 1304.1 | 633.2 | 545.3 | 538.8 | 512.4 | 473.4 | 427.1 | 396.5 | 393.9 |
| 50° | 2704.7 | 2539.5 | 1290.8 | 554.0 | 494.4 | 496.3 | 474.7 | 433.5 | 389.7 | 367.2 | 364.6 |
| 52.5° | 3299.9 | 2999.7 | 1316.3 | 492.8 | 453.5 | 460.2 | 444.1 | 405.5 | 368.8 | 351.1 | 348.5 |
| 55° | 3917.3 | 3476.4 | 1343.7 | 448.3 | 414.8 | 428.0 | 422.6 | 390.7 | 357.5 | 341.1 | 338.8 |
| 57.5° | 4445.8 | 3832.3 | 1288.9 | 412.2 | 380.4 | 401.0 | 405.8 | 381.3 | 351.7 | 336.9 | 334.3 |
| 60° | 4778.5 | 3975.6 | 1145.3 | 378.4 | 353.0 | 379.4 | 396.1 | 378.8 | 354.0 | 352.7 | 350.7 |
| 62.5° | 4936.3 | 3963.0 | 929.8 | 351.7 | 335.9 | 370.1 | 403.2 | 393.2 | 379.7 | 391.3 | 392.3 |
| 65° | 4865.5 | 3773.7 | 692.4 | 334.0 | 323.7 | 373.6 | 424.5 | 420.6 | 387.1 | 398.7 | 400.3 |
| 67.5° | 4399.1 | 3321.8 | 512.7 | 318.5 | 310.2 | 383.6 | 463.1 | 429.6 | 372.6 | 381.0 | 375.9 |
| 70° | 3555.6 | 2633.6 | 395.5 | 301.1 | 296.3 | 382.3 | 480.5 | 424.2 | 356.9 | 358.8 | 344.9 |
| 72.5° | 2451.9 | 1795.9 | 321.7 | 285.0 | 276.3 | 348.5 | 468.3 | 410.6 | 343.6 | 328.8 | 310.5 |
| 75° | 1333.4 | 963.9 | 273.4 | 268.3 | 241.2 | 306.0 | 445.7 | 401.0 | 331.7 | 312.1 | 301.8 |
| 77.5° | 524.6 | 400.0 | 237.4 | 245.4 | 211.0 | 270.2 | 420.6 | 382.6 | 315.3 | 289.5 | 284.4 |
| 80° | 214.2 | 204.2 | 196.8 | 212.2 | 181.3 | 236.4 | 390.3 | 361.0 | 295.7 | 268.6 | 258.3 |
| 82.5° | 121.4 | 126.9 | 153.0 | 167.5 | 147.2 | 217.7 | 375.9 | 343.6 | 272.1 | 240.6 | 228.3 |
| 85° | 62.2 | 74.4 | 106.6 | 120.1 | 108.2 | 185.2 | 346.2 | 300.8 | 218.4 | 184.2 | 185.2 |
| 87.5° | 30.0 | 41.5 | 67.3 | 75.4 | 70.2 | 134.0 | 258.6 | 218.0 | 170.1 | 134.6 | 130.4 |
| 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)