

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: P386515

Luminaire Tested: GAW-SA2A-830-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-830-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7774 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

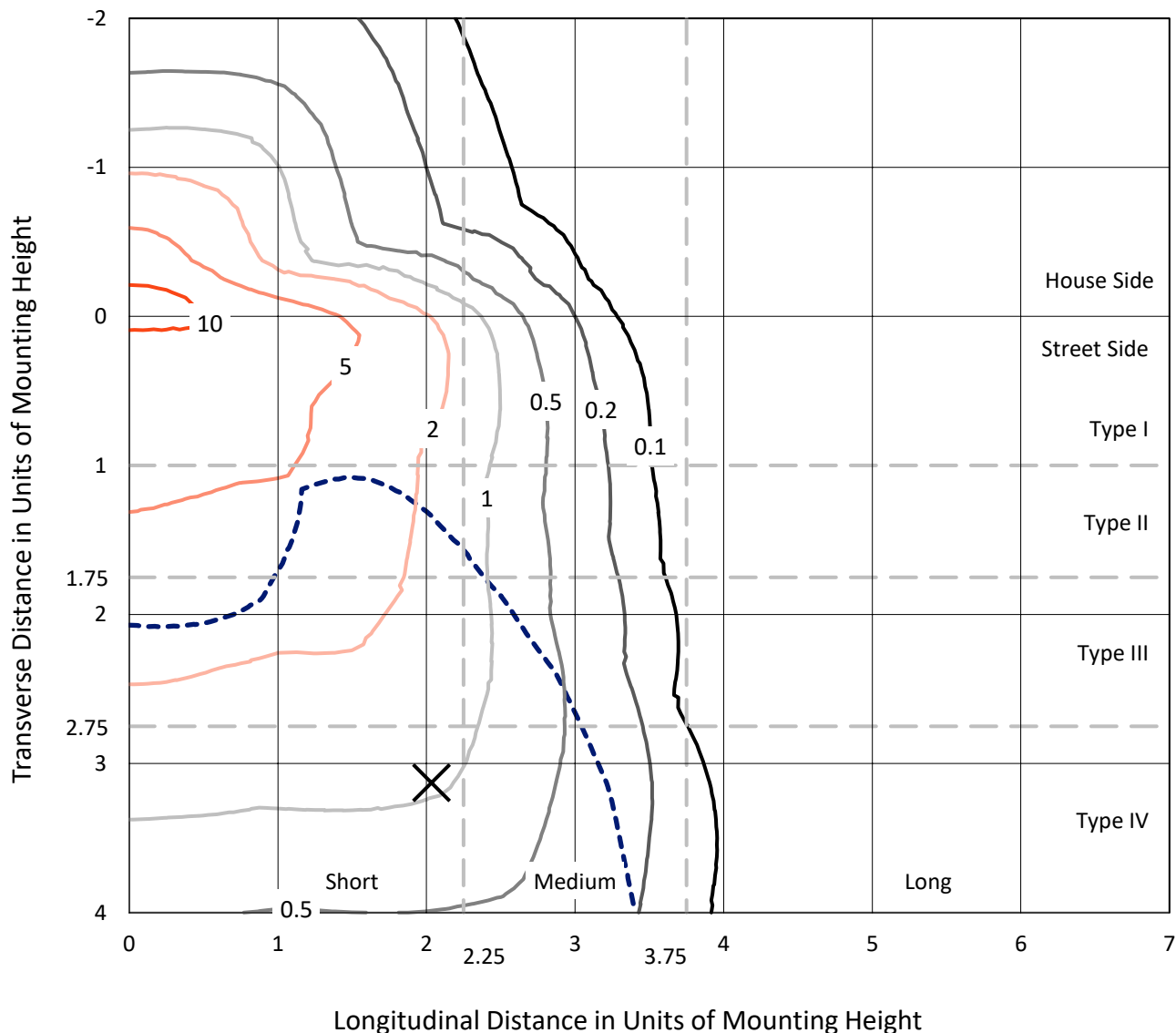
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

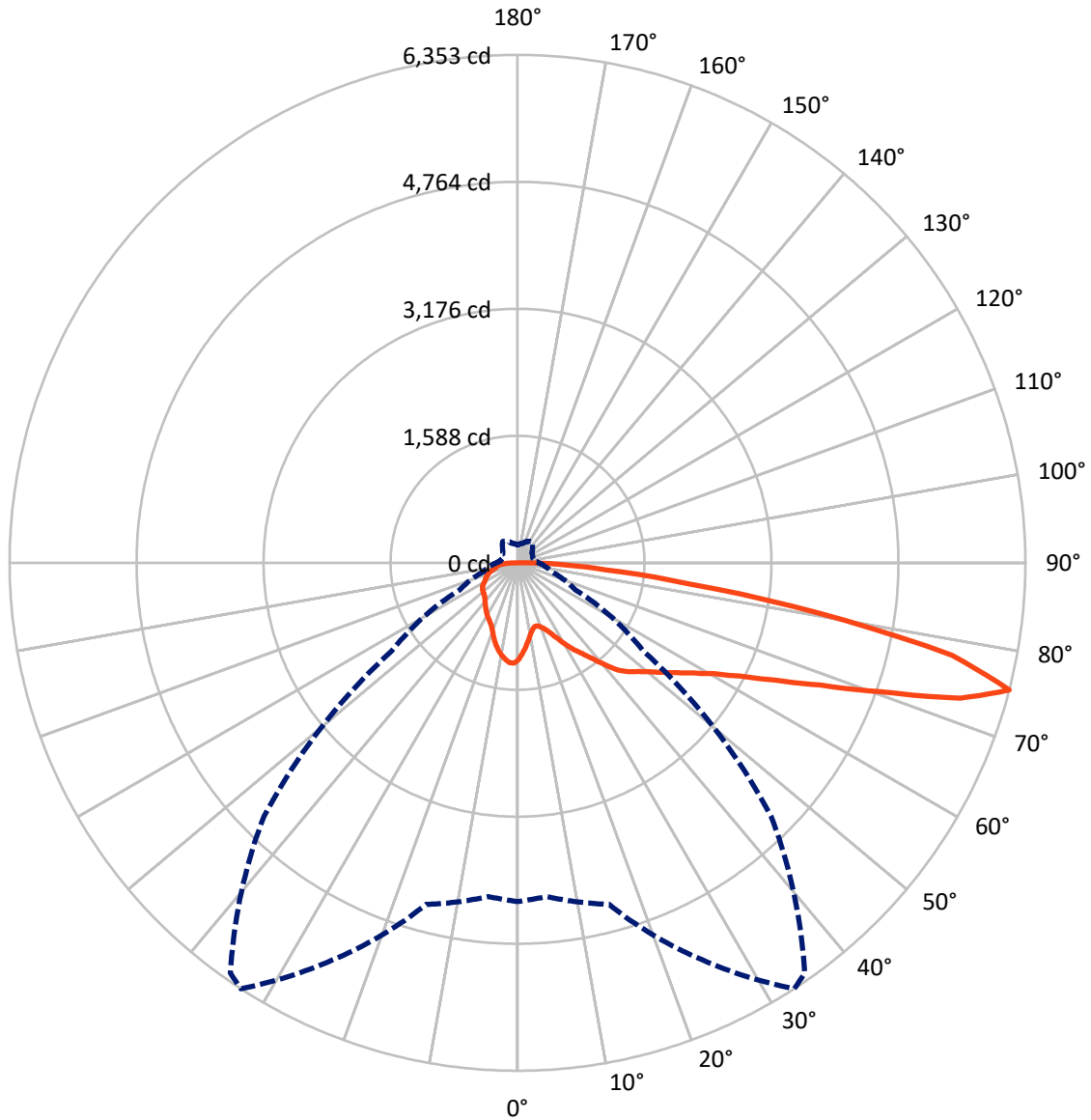
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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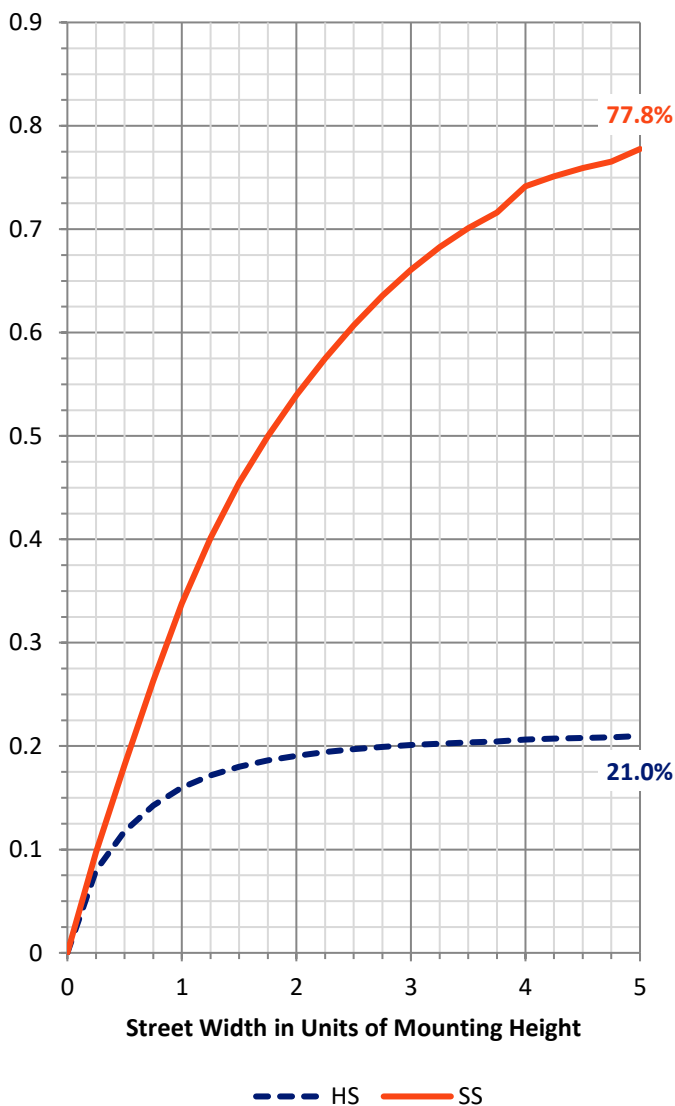
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1669.3 | 0.0 | 1669.3 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 6104.7 | 0.0 | 6104.7 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 7774.0 | 0.0 | 7774.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.9 | 1.4 |
| 10°-20° | 297.6 | 3.8 |
| 20°-30° | 486.1 | 6.3 |
| 30°-40° | 723.9 | 9.3 |
| 40°-50° | 1038.3 | 13.4 |
| 50°-60° | 1425.4 | 18.3 |
| 60°-70° | 1784.5 | 23.0 |
| 70°-80° | 1614.3 | 20.8 |
| 80°-90° | 294.1 | 3.8 |
| 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° | 7774.0 | 100.0 |
| 0°-180° | 7774.0 | 100.0 |

Coefficient of Utilization

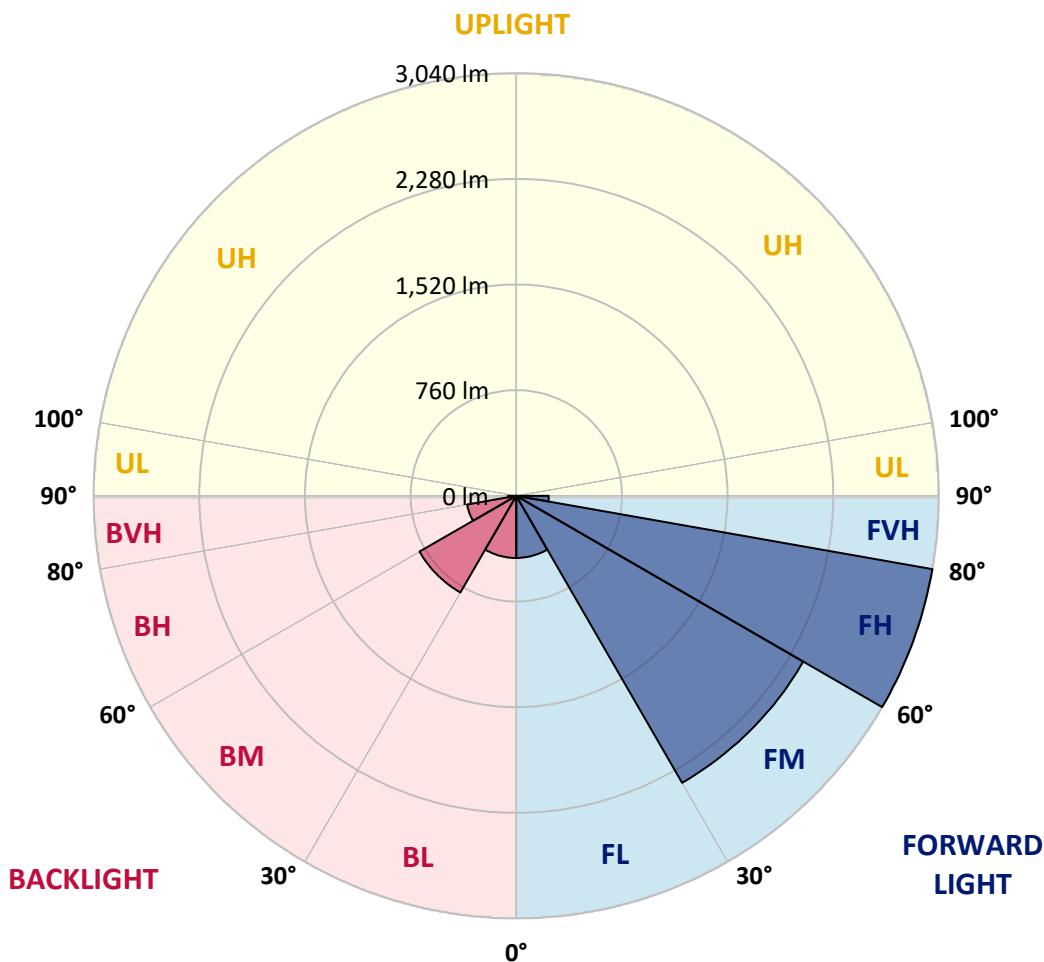


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 446.5 | 5.7 | | | |
| FM (30°-60°) | 2384.1 | 30.7 | | | |
| FH (60°-80°) | 3039.9 | 39.1 | | | G2/5000 |
| FVH (80°-90°) | 234.2 | 3.0 | | | G3/500 |
| BL (0°-30°) | 447.1 | 5.8 | B1/500 | | |
| BM (30°-60°) | 803.4 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 358.9 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 59.9 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 |
| 2.5° | 1128.4 | 1124.1 | 1132.1 | 1133.2 | 1140.2 | 1142.9 | 1152.6 | 1167.6 | 1179.9 | 1194.2 | 1207.1 |
| 5° | 1026.1 | 1023.1 | 1034.4 | 1042.5 | 1057.8 | 1064.2 | 1087.0 | 1119.0 | 1147.4 | 1179.7 | 1208.9 |
| 7.5° | 928.9 | 927.3 | 939.9 | 958.1 | 975.9 | 984.7 | 1024.2 | 1070.6 | 1118.2 | 1170.3 | 1215.1 |
| 10° | 847.0 | 846.4 | 858.5 | 876.5 | 902.5 | 912.5 | 963.5 | 1024.7 | 1091.3 | 1163.0 | 1225.6 |
| 12.5° | 801.0 | 802.9 | 808.6 | 823.6 | 847.8 | 857.7 | 914.4 | 986.3 | 1068.8 | 1160.6 | 1240.9 |
| 15° | 812.3 | 815.3 | 805.6 | 805.1 | 822.3 | 830.0 | 883.2 | 958.9 | 1052.7 | 1164.6 | 1263.2 |
| 17.5° | 860.4 | 860.9 | 835.4 | 819.3 | 829.8 | 833.8 | 873.5 | 943.4 | 1043.3 | 1173.8 | 1291.1 |
| 20° | 928.1 | 926.7 | 881.6 | 854.7 | 860.4 | 861.5 | 887.2 | 943.6 | 1042.5 | 1189.6 | 1327.4 |
| 22.5° | 1017.7 | 1007.8 | 947.1 | 910.6 | 909.3 | 907.6 | 922.4 | 963.5 | 1054.3 | 1215.4 | 1370.6 |
| 25° | 1134.8 | 1125.4 | 1041.9 | 992.0 | 981.2 | 977.2 | 979.3 | 1005.9 | 1077.6 | 1243.0 | 1418.9 |
| 27.5° | 1265.1 | 1248.7 | 1168.1 | 1097.5 | 1075.2 | 1069.6 | 1056.7 | 1065.8 | 1103.1 | 1269.6 | 1476.4 |
| 30° | 1374.1 | 1365.2 | 1294.9 | 1211.1 | 1184.8 | 1176.7 | 1142.9 | 1132.9 | 1139.9 | 1305.9 | 1548.9 |
| 32.5° | 1435.0 | 1429.1 | 1386.4 | 1318.8 | 1294.3 | 1283.1 | 1235.3 | 1215.4 | 1199.0 | 1363.1 | 1647.2 |
| 35° | 1508.9 | 1505.1 | 1479.4 | 1430.2 | 1394.0 | 1382.1 | 1345.1 | 1324.4 | 1282.3 | 1441.8 | 1774.2 |
| 37.5° | 1602.9 | 1598.9 | 1599.4 | 1559.6 | 1516.4 | 1505.4 | 1481.0 | 1459.2 | 1390.2 | 1545.1 | 1912.2 |
| 40° | 1709.2 | 1701.4 | 1698.5 | 1696.6 | 1669.2 | 1663.0 | 1650.1 | 1620.6 | 1525.5 | 1668.7 | 2048.4 |
| 42.5° | 1869.3 | 1841.6 | 1782.5 | 1804.8 | 1831.9 | 1828.7 | 1839.2 | 1796.8 | 1675.9 | 1814.8 | 2181.3 |
| 45° | 2023.7 | 1978.3 | 1876.3 | 1881.1 | 1940.4 | 1958.4 | 2036.8 | 2006.8 | 1838.9 | 1974.8 | 2318.8 |
| 47.5° | 2094.0 | 2059.7 | 1972.9 | 1973.2 | 2032.0 | 2069.3 | 2241.2 | 2219.7 | 2010.3 | 2156.6 | 2486.6 |
| 50° | 2172.7 | 2138.3 | 2060.5 | 2089.7 | 2141.0 | 2180.8 | 2438.6 | 2427.6 | 2173.3 | 2355.6 | 2687.8 |
| 52.5° | 2258.6 | 2200.4 | 2151.0 | 2203.3 | 2275.3 | 2321.5 | 2636.2 | 2606.1 | 2322.8 | 2555.9 | 2919.0 |
| 55° | 2259.7 | 2243.9 | 2281.5 | 2319.9 | 2427.6 | 2484.2 | 2843.2 | 2763.8 | 2444.7 | 2752.7 | 3107.2 |
| 57.5° | 2388.3 | 2362.6 | 2442.3 | 2460.0 | 2600.8 | 2664.7 | 3049.2 | 2901.0 | 2568.8 | 2903.7 | 3208.7 |
| 60° | 2558.6 | 2536.6 | 2601.8 | 2648.6 | 2815.0 | 2900.4 | 3269.1 | 3042.0 | 2666.3 | 3017.5 | 3203.9 |
| 62.5° | 2852.6 | 2827.7 | 2826.9 | 2892.4 | 3116.6 | 3216.0 | 3515.9 | 3180.3 | 2705.0 | 3040.1 | 3067.2 |
| 65° | 3283.1 | 3243.4 | 3168.4 | 3199.6 | 3533.1 | 3632.2 | 3791.7 | 3280.4 | 2653.9 | 2919.2 | 2715.2 |
| 67.5° | 3702.0 | 3700.7 | 3608.6 | 3672.5 | 4083.1 | 4162.6 | 4105.9 | 3290.4 | 2494.7 | 2498.4 | 2090.5 |
| 70° | 4119.6 | 4125.0 | 4109.4 | 4331.7 | 4826.1 | 4908.8 | 4440.5 | 3156.9 | 2136.7 | 1804.3 | 1252.4 |
| 72.5° | 4450.4 | 4449.1 | 4527.5 | 5100.8 | 5790.4 | 5771.9 | 4722.5 | 2752.5 | 1534.1 | 974.0 | 598.6 |
| 75° | 4236.1 | 4189.4 | 4423.0 | 5481.6 | 6352.5 | 6262.0 | 4482.7 | 1920.0 | 796.2 | 443.4 | 322.2 |
| 77.5° | 2763.0 | 2807.3 | 3150.2 | 4528.3 | 5556.5 | 5446.4 | 3288.7 | 895.8 | 375.1 | 290.8 | 233.6 |
| 80° | 1000.6 | 1047.3 | 1475.1 | 2565.0 | 3828.2 | 3810.2 | 1619.5 | 368.2 | 253.8 | 219.7 | 170.3 |
| 82.5° | 344.3 | 361.4 | 581.9 | 1139.1 | 2161.4 | 2242.0 | 609.3 | 209.2 | 184.5 | 155.8 | 116.5 |
| 85° | 135.1 | 154.7 | 266.1 | 548.1 | 1090.3 | 1098.3 | 246.8 | 125.1 | 128.4 | 102.0 | 63.9 |
| 87.5° | 51.3 | 62.3 | 127.3 | 254.6 | 497.9 | 457.3 | 88.3 | 59.6 | 73.0 | 60.7 | 30.3 |
| 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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CATALOG NUMBER: GAW-SA2A-830-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 | 1215.1 |
| 2.5° | 1217.0 | 1222.6 | 1234.5 | 1242.5 | 1251.1 | 1253.5 | 1254.6 | 1256.7 | 1258.9 | 1258.1 | 1258.4 |
| 5° | 1224.5 | 1235.5 | 1254.6 | 1262.7 | 1266.4 | 1262.1 | 1253.8 | 1247.1 | 1242.2 | 1239.6 | 1238.8 |
| 7.5° | 1236.9 | 1252.4 | 1272.9 | 1271.5 | 1262.9 | 1243.9 | 1222.4 | 1206.3 | 1192.8 | 1188.0 | 1185.3 |
| 10° | 1253.3 | 1271.5 | 1285.7 | 1270.4 | 1245.5 | 1212.4 | 1180.2 | 1155.2 | 1135.1 | 1127.3 | 1126.0 |
| 12.5° | 1274.2 | 1292.7 | 1295.4 | 1262.9 | 1221.6 | 1176.5 | 1132.7 | 1099.6 | 1069.6 | 1059.9 | 1057.8 |
| 15° | 1301.3 | 1318.8 | 1302.1 | 1249.8 | 1192.0 | 1131.3 | 1074.7 | 1029.8 | 998.1 | 986.3 | 982.0 |
| 17.5° | 1329.8 | 1346.4 | 1303.5 | 1228.0 | 1153.4 | 1077.9 | 1006.7 | 960.8 | 924.6 | 910.9 | 909.3 |
| 20° | 1363.9 | 1371.4 | 1297.8 | 1196.9 | 1100.2 | 1008.6 | 933.7 | 890.5 | 871.1 | 861.5 | 860.4 |
| 22.5° | 1406.0 | 1398.0 | 1284.9 | 1154.7 | 1032.8 | 928.6 | 867.6 | 847.5 | 842.7 | 840.5 | 841.3 |
| 25° | 1450.6 | 1425.9 | 1265.9 | 1099.6 | 947.7 | 848.6 | 819.3 | 824.9 | 831.4 | 830.6 | 830.6 |
| 27.5° | 1499.8 | 1454.4 | 1236.6 | 1026.6 | 853.4 | 783.0 | 786.5 | 807.2 | 816.9 | 816.6 | 816.3 |
| 30° | 1562.9 | 1486.6 | 1199.3 | 938.8 | 765.3 | 736.9 | 758.1 | 783.3 | 796.5 | 795.9 | 796.2 |
| 32.5° | 1640.5 | 1522.1 | 1148.5 | 840.8 | 701.7 | 702.8 | 727.2 | 752.2 | 767.5 | 766.1 | 766.4 |
| 35° | 1731.2 | 1561.8 | 1079.8 | 744.1 | 659.5 | 675.6 | 695.0 | 712.4 | 726.9 | 725.0 | 723.2 |
| 37.5° | 1830.1 | 1600.7 | 988.5 | 657.6 | 625.1 | 650.4 | 666.5 | 669.5 | 676.2 | 671.3 | 667.8 |
| 40° | 1924.1 | 1630.5 | 870.9 | 586.7 | 590.5 | 628.9 | 639.4 | 627.6 | 615.5 | 613.9 | 609.0 |
| 42.5° | 2006.0 | 1640.5 | 751.9 | 530.1 | 554.0 | 606.4 | 612.8 | 588.1 | 566.3 | 556.1 | 551.8 |
| 45° | 2092.4 | 1644.0 | 641.0 | 482.6 | 518.8 | 586.2 | 593.2 | 560.2 | 529.6 | 507.5 | 500.3 |
| 47.5° | 2205.5 | 1669.2 | 554.8 | 447.4 | 492.0 | 572.8 | 582.7 | 537.9 | 498.1 | 466.7 | 460.0 |
| 50° | 2353.4 | 1719.2 | 484.7 | 420.5 | 474.5 | 563.9 | 575.2 | 516.1 | 472.4 | 434.5 | 427.8 |
| 52.5° | 2517.8 | 1765.1 | 428.0 | 398.8 | 457.6 | 548.3 | 565.5 | 500.5 | 448.2 | 404.7 | 397.4 |
| 55° | 2632.7 | 1729.9 | 382.4 | 376.2 | 435.6 | 526.1 | 552.1 | 487.4 | 413.5 | 375.7 | 369.2 |
| 57.5° | 2654.7 | 1609.6 | 347.8 | 352.9 | 409.0 | 498.1 | 531.4 | 458.1 | 394.7 | 363.1 | 356.3 |
| 60° | 2594.6 | 1442.0 | 322.0 | 331.4 | 380.5 | 463.0 | 492.8 | 437.4 | 376.8 | 349.6 | 344.0 |
| 62.5° | 2443.4 | 1270.4 | 302.9 | 312.0 | 353.9 | 427.2 | 468.6 | 415.7 | 358.5 | 334.3 | 328.7 |
| 65° | 2138.1 | 1066.6 | 284.6 | 294.9 | 329.2 | 396.4 | 446.8 | 395.6 | 340.5 | 322.0 | 316.6 |
| 67.5° | 1613.9 | 798.9 | 267.5 | 276.6 | 307.2 | 369.5 | 423.2 | 375.7 | 323.0 | 311.2 | 304.8 |
| 70° | 950.3 | 500.3 | 247.9 | 257.5 | 284.1 | 341.6 | 398.0 | 353.9 | 301.3 | 295.9 | 287.6 |
| 72.5° | 442.3 | 301.0 | 225.6 | 235.0 | 255.1 | 304.2 | 365.5 | 325.5 | 275.5 | 263.7 | 252.4 |
| 75° | 264.0 | 220.2 | 199.3 | 207.6 | 221.8 | 264.5 | 324.7 | 296.5 | 251.1 | 235.5 | 223.7 |
| 77.5° | 197.4 | 168.4 | 170.3 | 179.1 | 190.7 | 231.5 | 287.6 | 273.6 | 232.3 | 220.2 | 212.1 |
| 80° | 142.1 | 127.8 | 138.8 | 148.5 | 160.6 | 210.5 | 275.5 | 253.0 | 210.0 | 193.9 | 186.4 |
| 82.5° | 94.8 | 91.8 | 104.5 | 114.4 | 126.2 | 184.2 | 258.9 | 221.5 | 179.4 | 159.0 | 142.3 |
| 85° | 52.4 | 55.3 | 70.4 | 74.7 | 84.9 | 129.7 | 212.1 | 178.0 | 135.1 | 108.8 | 103.9 |
| 87.5° | 21.8 | 25.5 | 37.9 | 36.5 | 45.1 | 77.3 | 139.6 | 107.4 | 85.9 | 64.2 | 49.9 |
| 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)