

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: P386451

Luminaire Tested: GAW-SA2A-760-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-760-U-T2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9543 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

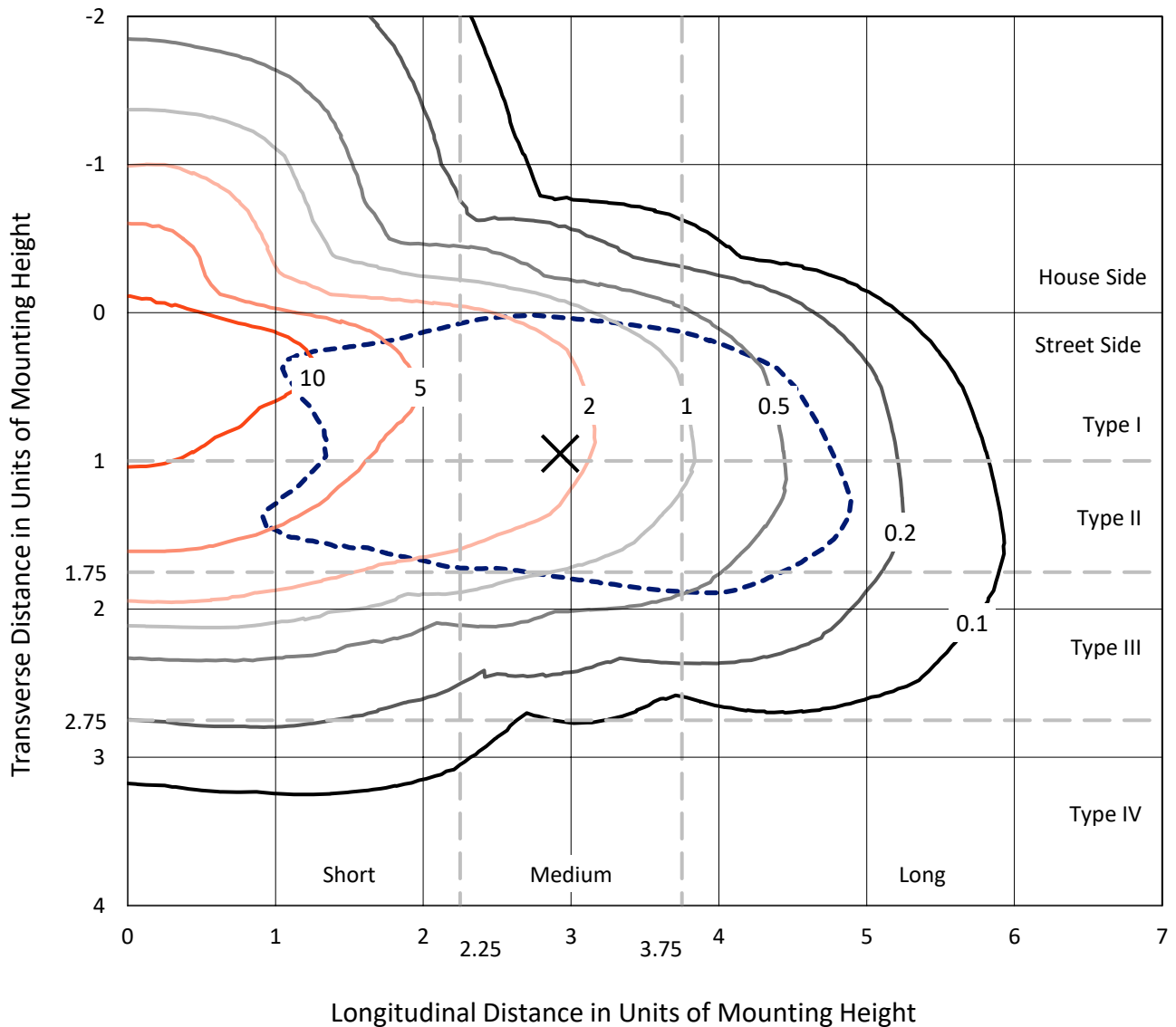
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

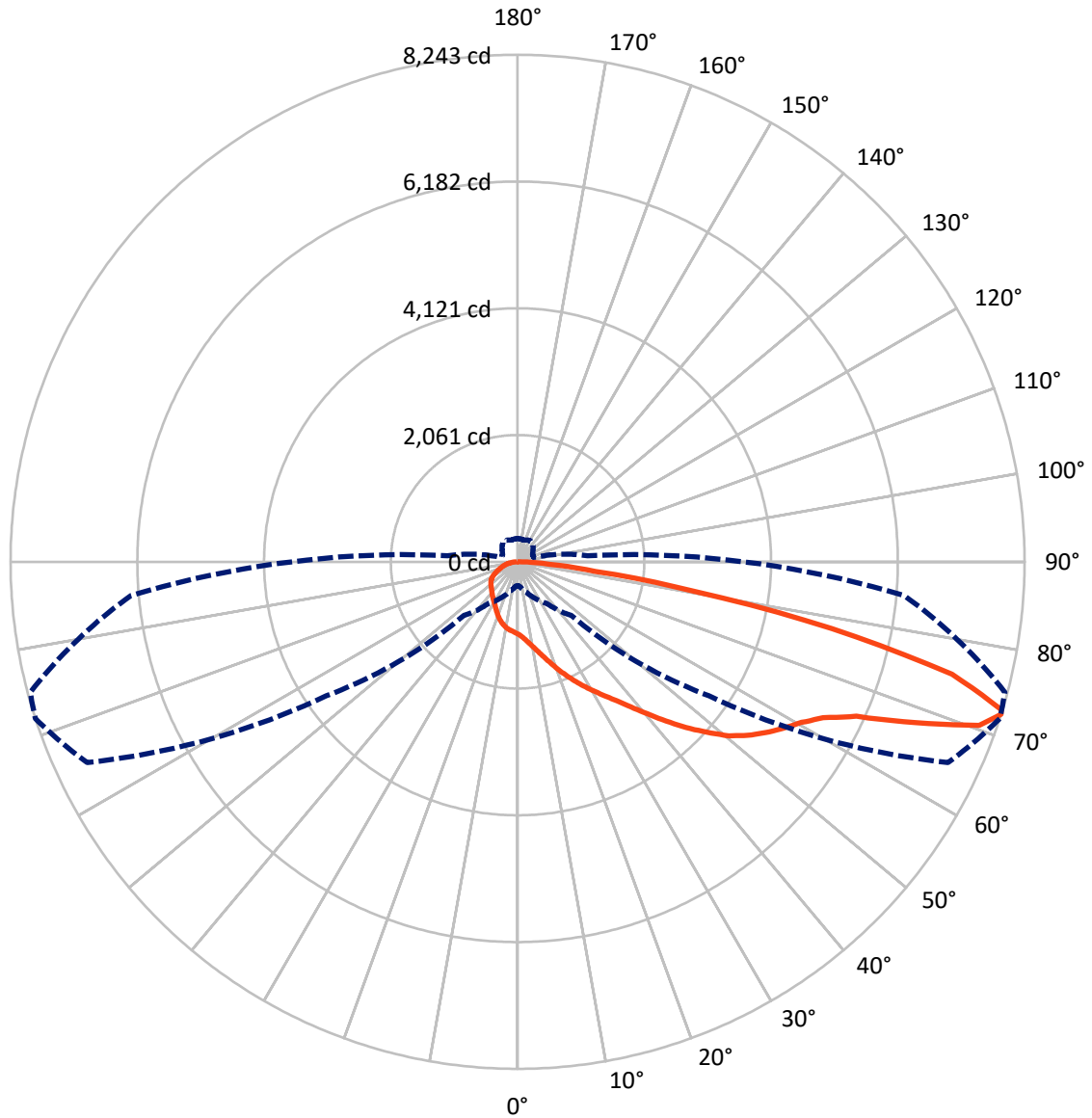
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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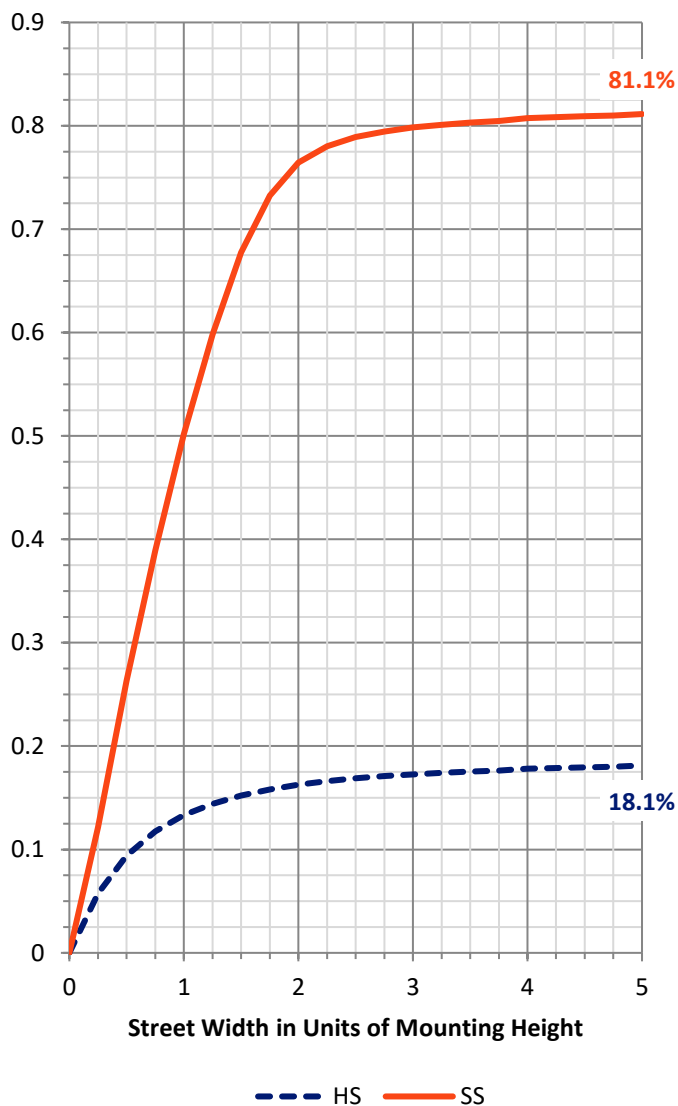
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1770.3 | 0.0 | 1770.3 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 7772.7 | 0.0 | 7772.7 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 9543.0 | 0.0 | 9543.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 117.6 | 1.2 |
| 10°-20° | 380.2 | 4.0 |
| 20°-30° | 666.2 | 7.0 |
| 30°-40° | 987.7 | 10.4 |
| 40°-50° | 1444.6 | 15.1 |
| 50°-60° | 1987.8 | 20.8 |
| 60°-70° | 2213.0 | 23.2 |
| 70°-80° | 1499.5 | 15.7 |
| 80°-90° | 246.5 | 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° | 9543.0 | 100.0 |
| 0°-180° | 9543.0 | 100.0 |

Coefficient of Utilization

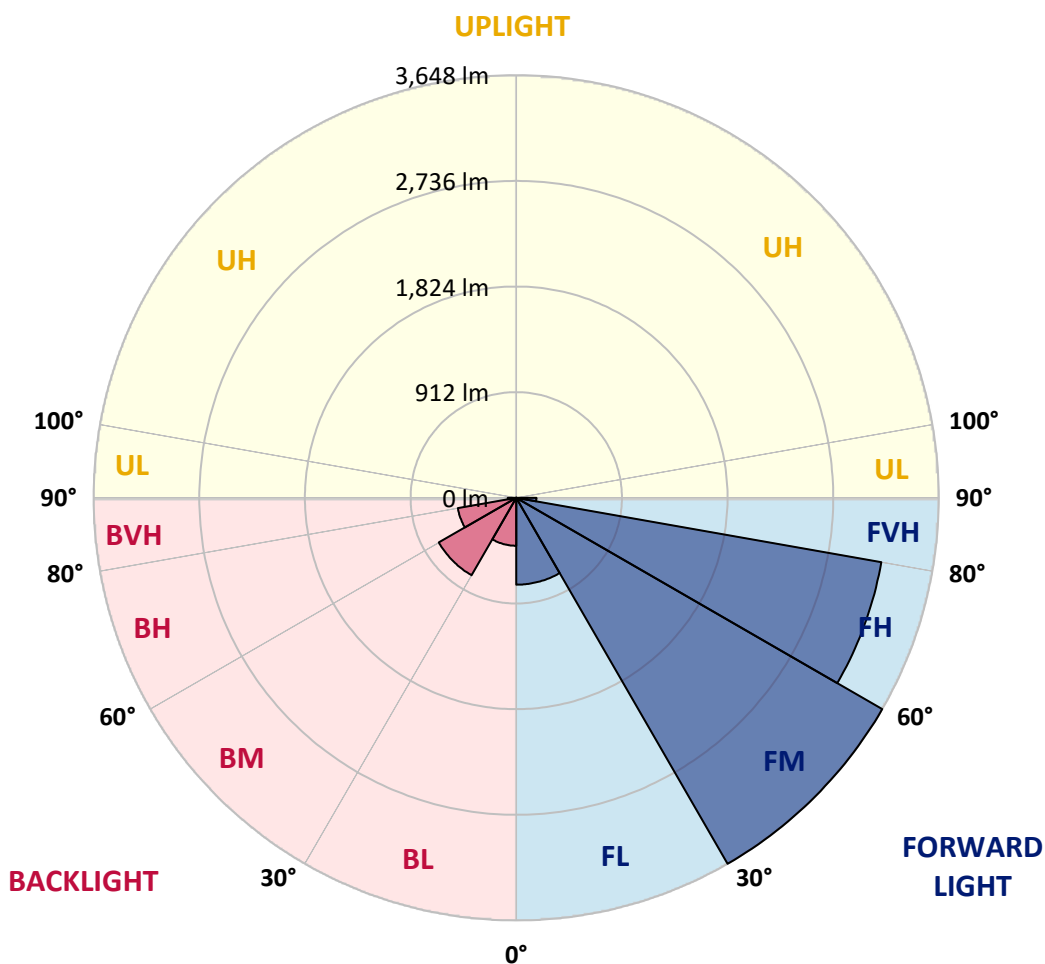


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 750.1 | 7.9 | | | |
| FM (30°-60°) | 3648.4 | 38.2 | | | |
| FH (60°-80°) | 3200.3 | 33.5 | | | G2/5000 |
| FVH (80°-90°) | 173.9 | 1.8 | | | G2/225 |
| BL (0°-30°) | 413.8 | 4.3 | B1/500 | | |
| BM (30°-60°) | 771.7 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 512.2 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 72.6 | 0.8 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 |
| 2.5° | 1296.9 | 1295.0 | 1288.1 | 1288.1 | 1274.9 | 1263.7 | 1242.7 | 1228.6 | 1211.8 | 1205.9 | 1186.2 |
| 5° | 1422.4 | 1423.1 | 1414.6 | 1408.6 | 1389.3 | 1365.6 | 1329.8 | 1297.3 | 1264.7 | 1251.6 | 1211.2 |
| 7.5° | 1527.9 | 1526.6 | 1524.3 | 1519.4 | 1501.3 | 1477.0 | 1428.7 | 1380.4 | 1332.4 | 1312.7 | 1243.0 |
| 10° | 1595.6 | 1598.6 | 1600.5 | 1602.8 | 1595.3 | 1577.9 | 1532.2 | 1473.4 | 1410.6 | 1383.7 | 1281.2 |
| 12.5° | 1629.8 | 1635.0 | 1644.2 | 1660.0 | 1672.5 | 1670.5 | 1637.3 | 1574.9 | 1500.3 | 1466.5 | 1328.8 |
| 15° | 1649.8 | 1656.7 | 1671.2 | 1699.4 | 1734.6 | 1754.6 | 1745.8 | 1689.3 | 1606.1 | 1564.4 | 1387.0 |
| 17.5° | 1662.3 | 1667.9 | 1690.2 | 1728.0 | 1780.3 | 1833.5 | 1856.8 | 1809.5 | 1725.7 | 1678.1 | 1453.7 |
| 20° | 1670.9 | 1675.1 | 1703.1 | 1747.4 | 1815.1 | 1899.9 | 1964.9 | 1953.1 | 1857.5 | 1795.7 | 1523.3 |
| 22.5° | 1689.9 | 1693.5 | 1720.1 | 1764.8 | 1839.8 | 1949.2 | 2069.1 | 2086.9 | 1996.5 | 1926.5 | 1597.9 |
| 25° | 1743.1 | 1743.1 | 1765.5 | 1796.7 | 1867.0 | 1991.9 | 2157.2 | 2235.7 | 2138.4 | 2056.9 | 1666.9 |
| 27.5° | 1844.7 | 1843.7 | 1851.9 | 1862.8 | 1916.0 | 2035.3 | 2235.7 | 2367.1 | 2285.6 | 2196.6 | 1733.9 |
| 30° | 1964.9 | 1971.5 | 1972.5 | 1967.2 | 1992.2 | 2089.5 | 2308.3 | 2505.8 | 2433.8 | 2337.9 | 1802.6 |
| 32.5° | 2119.7 | 2124.0 | 2119.1 | 2101.6 | 2098.0 | 2166.4 | 2379.6 | 2651.0 | 2594.2 | 2485.4 | 1865.4 |
| 35° | 2316.2 | 2308.0 | 2292.5 | 2257.1 | 2223.2 | 2269.2 | 2461.1 | 2796.3 | 2774.3 | 2663.8 | 1951.8 |
| 37.5° | 2526.8 | 2527.2 | 2508.1 | 2427.6 | 2380.9 | 2400.6 | 2573.5 | 2960.9 | 2992.1 | 2876.1 | 2062.5 |
| 40° | 2695.7 | 2704.6 | 2716.4 | 2610.6 | 2550.2 | 2577.4 | 2716.4 | 3151.8 | 3249.7 | 3127.8 | 2206.8 |
| 42.5° | 2813.7 | 2823.9 | 2857.4 | 2791.0 | 2728.2 | 2778.9 | 2884.7 | 3355.5 | 3538.9 | 3418.3 | 2375.7 |
| 45° | 2938.5 | 2944.1 | 2967.8 | 2939.2 | 2899.1 | 3013.1 | 3074.3 | 3566.5 | 3844.8 | 3727.8 | 2564.6 |
| 47.5° | 3070.0 | 3075.9 | 3100.2 | 3081.2 | 3060.1 | 3232.0 | 3272.1 | 3765.3 | 4137.9 | 4067.9 | 2766.4 |
| 50° | 3232.3 | 3236.2 | 3259.2 | 3224.7 | 3231.3 | 3396.9 | 3448.8 | 3947.6 | 4445.1 | 4373.5 | 2968.8 |
| 52.5° | 3453.8 | 3454.8 | 3486.6 | 3455.4 | 3424.5 | 3517.8 | 3601.0 | 4119.5 | 4686.0 | 4652.1 | 3171.2 |
| 55° | 3627.3 | 3637.8 | 3742.3 | 3735.7 | 3718.0 | 3627.6 | 3728.1 | 4283.1 | 4900.9 | 4917.0 | 3386.1 |
| 57.5° | 3516.5 | 3557.6 | 3769.2 | 3918.4 | 4063.6 | 3900.6 | 3900.0 | 4467.5 | 5100.6 | 5176.9 | 3622.3 |
| 60° | 3079.8 | 3135.7 | 3447.5 | 3778.4 | 4232.8 | 4375.8 | 4256.8 | 4692.5 | 5302.4 | 5434.5 | 3918.4 |
| 62.5° | 2199.6 | 2291.6 | 2714.1 | 3242.5 | 4000.9 | 4690.6 | 4983.0 | 5049.7 | 5576.8 | 5732.8 | 4303.2 |
| 65° | 1111.9 | 1181.6 | 1535.8 | 2172.3 | 3196.5 | 4484.9 | 5772.3 | 5831.7 | 6053.5 | 6192.2 | 4895.6 |
| 67.5° | 675.6 | 701.9 | 874.7 | 1208.2 | 1959.7 | 3493.5 | 6029.9 | 7135.2 | 6976.2 | 7049.8 | 5740.4 |
| 70° | 497.8 | 517.2 | 625.0 | 802.4 | 1127.1 | 2050.0 | 5239.3 | 8065.5 | 7961.0 | 7952.8 | 6364.7 |
| 72° | 387.7 | 401.9 | 497.2 | 648.3 | 824.1 | 1229.9 | 3797.5 | 7722.1 | 8242.9 | 8201.5 | 6307.5 |
| 72.5° | 367.7 | 380.2 | 466.9 | 610.2 | 778.7 | 1114.9 | 3414.3 | 7490.4 | 8222.5 | 8203.8 | 6233.6 |
| 75° | 289.5 | 298.4 | 345.7 | 471.8 | 609.5 | 632.5 | 1871.0 | 5804.8 | 7294.3 | 7597.6 | 5606.7 |
| 77.5° | 239.5 | 240.9 | 265.8 | 343.4 | 475.1 | 447.2 | 919.1 | 4027.5 | 5223.2 | 5556.7 | 3971.6 |
| 80° | 195.2 | 196.8 | 208.7 | 240.9 | 359.5 | 330.9 | 436.4 | 2315.9 | 2924.4 | 2928.0 | 1888.7 |
| 82.5° | 155.4 | 155.7 | 168.9 | 176.1 | 258.3 | 236.6 | 250.1 | 1087.3 | 1277.9 | 1229.2 | 678.9 |
| 85° | 109.4 | 107.1 | 165.0 | 144.6 | 168.9 | 151.8 | 138.0 | 430.4 | 528.4 | 505.4 | 212.6 |
| 87.5° | 36.5 | 37.8 | 73.3 | 93.6 | 98.6 | 86.1 | 61.4 | 165.0 | 199.5 | 197.8 | 67.4 |
| 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-760-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 |
| 2.5° | 1180.0 | 1169.4 | 1154.0 | 1136.9 | 1123.4 | 1109.6 | 1099.4 | 1094.2 | 1088.3 | 1083.3 | 1089.3 |
| 5° | 1192.4 | 1172.7 | 1139.9 | 1107.7 | 1084.0 | 1063.0 | 1047.9 | 1040.0 | 1032.7 | 1027.8 | 1028.5 |
| 7.5° | 1212.8 | 1180.9 | 1125.7 | 1078.7 | 1045.9 | 1023.2 | 1007.8 | 1002.5 | 997.9 | 996.6 | 998.2 |
| 10° | 1234.5 | 1187.5 | 1107.0 | 1044.6 | 1007.1 | 988.4 | 981.5 | 985.1 | 988.4 | 991.3 | 994.6 |
| 12.5° | 1259.1 | 1193.4 | 1079.7 | 1004.5 | 972.6 | 965.4 | 972.3 | 988.1 | 999.6 | 1006.5 | 1010.7 |
| 15° | 1291.3 | 1198.7 | 1048.2 | 964.4 | 943.0 | 951.3 | 974.6 | 1001.9 | 1021.9 | 1034.7 | 1036.7 |
| 17.5° | 1320.9 | 1198.4 | 1007.8 | 924.0 | 919.1 | 943.0 | 978.2 | 1016.6 | 1043.6 | 1061.7 | 1065.3 |
| 20° | 1351.5 | 1189.5 | 960.8 | 884.6 | 894.7 | 934.2 | 979.8 | 1026.2 | 1058.7 | 1079.7 | 1084.7 |
| 22.5° | 1380.1 | 1174.0 | 909.2 | 848.7 | 874.4 | 922.3 | 973.6 | 1020.6 | 1053.1 | 1070.2 | 1075.5 |
| 25° | 1399.4 | 1147.1 | 857.0 | 818.5 | 856.3 | 907.9 | 953.2 | 991.0 | 1015.3 | 1023.9 | 1025.2 |
| 27.5° | 1409.3 | 1111.9 | 807.7 | 792.2 | 837.6 | 884.2 | 915.4 | 934.2 | 941.1 | 940.4 | 939.1 |
| 30° | 1410.6 | 1065.6 | 765.3 | 770.9 | 815.9 | 849.4 | 864.2 | 860.6 | 851.7 | 836.6 | 837.9 |
| 32.5° | 1406.3 | 1013.4 | 729.8 | 750.5 | 788.3 | 807.0 | 807.7 | 790.2 | 766.6 | 742.6 | 736.0 |
| 35° | 1407.7 | 962.1 | 698.6 | 727.5 | 754.8 | 763.0 | 755.4 | 729.8 | 697.6 | 666.7 | 660.1 |
| 37.5° | 1422.1 | 917.4 | 671.6 | 700.9 | 717.6 | 719.6 | 708.8 | 681.8 | 658.2 | 627.9 | 625.3 |
| 40° | 1456.6 | 885.5 | 646.0 | 671.0 | 680.5 | 681.5 | 666.0 | 647.0 | 649.0 | 632.9 | 632.5 |
| 42.5° | 1518.7 | 871.7 | 623.3 | 639.8 | 645.7 | 647.6 | 635.8 | 623.7 | 640.7 | 630.2 | 626.6 |
| 45° | 1598.9 | 875.0 | 604.3 | 609.2 | 620.0 | 629.2 | 622.0 | 607.2 | 613.8 | 568.1 | 553.0 |
| 47.5° | 1691.6 | 896.1 | 589.2 | 582.9 | 601.6 | 619.1 | 607.9 | 585.5 | 562.2 | 516.9 | 508.3 |
| 50° | 1800.0 | 928.6 | 575.4 | 557.0 | 581.6 | 605.3 | 594.1 | 562.2 | 527.1 | 505.0 | 502.1 |
| 52.5° | 1913.0 | 968.3 | 561.6 | 528.4 | 556.3 | 594.7 | 589.2 | 557.0 | 513.6 | 491.9 | 488.0 |
| 55° | 2041.2 | 1008.4 | 544.1 | 495.2 | 529.0 | 589.8 | 586.9 | 537.9 | 503.4 | 491.2 | 488.3 |
| 57.5° | 2200.5 | 1054.1 | 521.1 | 460.7 | 503.4 | 572.1 | 562.9 | 526.4 | 492.9 | 483.7 | 482.7 |
| 60° | 2408.2 | 1121.5 | 488.0 | 423.9 | 472.2 | 544.8 | 542.8 | 509.6 | 476.1 | 469.5 | 468.2 |
| 62.5° | 2719.7 | 1232.9 | 442.3 | 387.1 | 437.3 | 498.5 | 516.5 | 487.0 | 458.4 | 458.0 | 458.7 |
| 65° | 3202.7 | 1400.4 | 392.7 | 354.9 | 402.2 | 459.4 | 486.0 | 463.6 | 440.3 | 446.9 | 447.9 |
| 67.5° | 3762.6 | 1539.4 | 344.0 | 323.3 | 366.4 | 422.2 | 458.4 | 440.3 | 416.3 | 433.4 | 433.7 |
| 70° | 3948.9 | 1415.2 | 301.3 | 292.1 | 329.2 | 386.4 | 428.5 | 414.7 | 390.4 | 407.4 | 405.8 |
| 72° | 3674.9 | 1142.5 | 273.7 | 268.5 | 301.3 | 356.8 | 401.9 | 390.7 | 366.7 | 378.2 | 373.9 |
| 72.5° | 3588.5 | 1089.3 | 266.8 | 262.5 | 293.8 | 349.3 | 395.0 | 384.8 | 360.8 | 370.6 | 366.7 |
| 75° | 3201.1 | 946.0 | 229.4 | 230.3 | 256.3 | 312.5 | 356.2 | 352.9 | 328.3 | 329.2 | 327.9 |
| 77.5° | 2321.8 | 693.6 | 193.2 | 199.8 | 218.2 | 274.7 | 317.1 | 315.1 | 288.2 | 283.2 | 282.3 |
| 80° | 1077.4 | 353.9 | 157.4 | 160.3 | 179.4 | 229.7 | 270.4 | 267.8 | 246.1 | 239.9 | 236.3 |
| 82.5° | 369.0 | 168.2 | 118.3 | 120.3 | 139.0 | 185.0 | 234.6 | 233.0 | 214.9 | 202.7 | 195.2 |
| 85° | 131.8 | 83.8 | 82.8 | 80.8 | 99.2 | 145.6 | 204.4 | 195.5 | 168.9 | 143.9 | 143.3 |
| 87.5° | 42.7 | 35.8 | 42.7 | 42.4 | 57.8 | 98.6 | 148.5 | 126.5 | 122.6 | 101.9 | 99.9 |
| 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)