

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: P386339

Luminaire Tested: GAW-SA2A-727-U-T2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386339  
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-727-U-T2  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7980 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

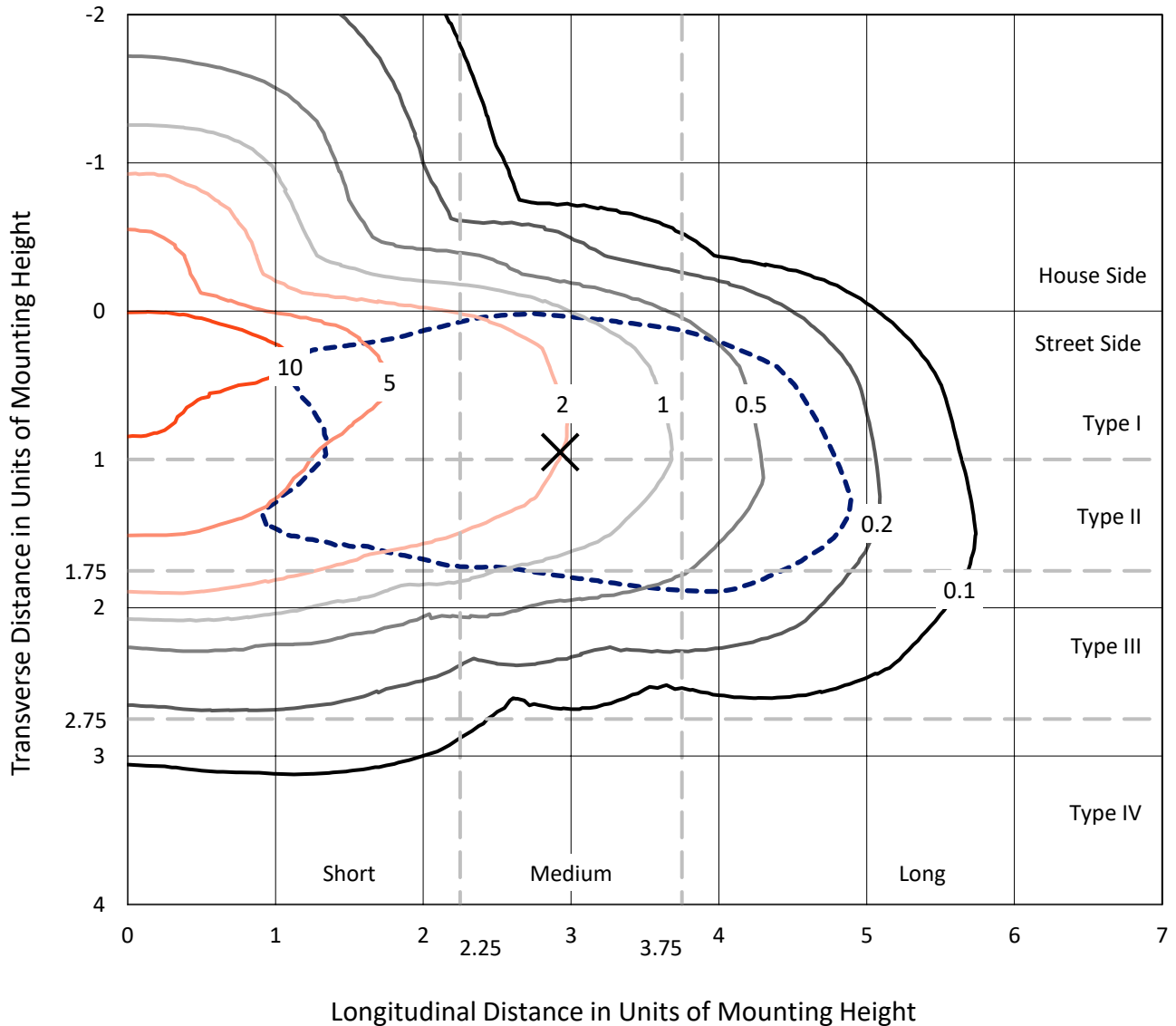
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

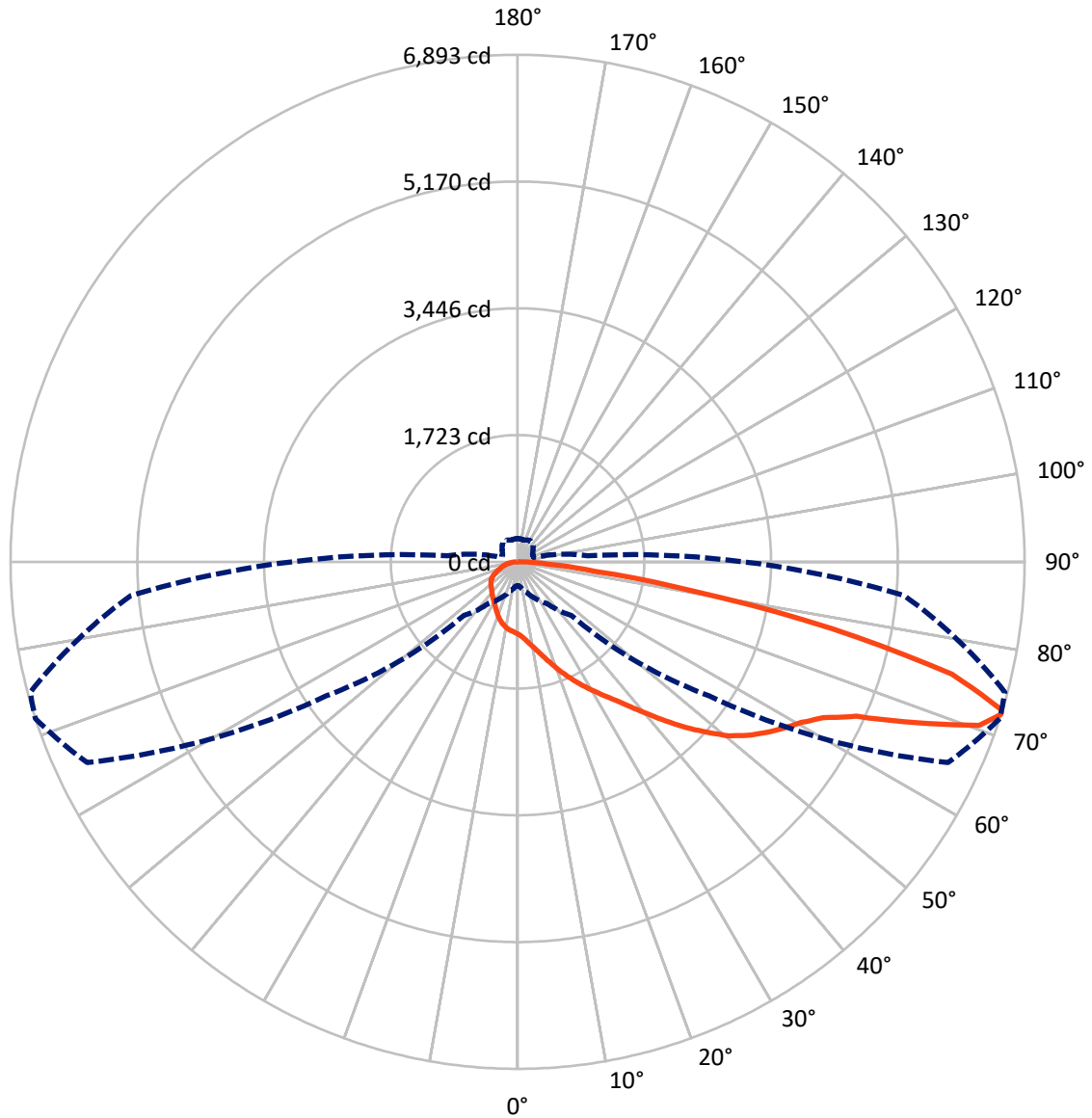
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc  
 Type III - Medium - N/A

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CATALOG NUMBER: GAW-SA2A-727-U-T2

### Luminous Intensity Polar Plot



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

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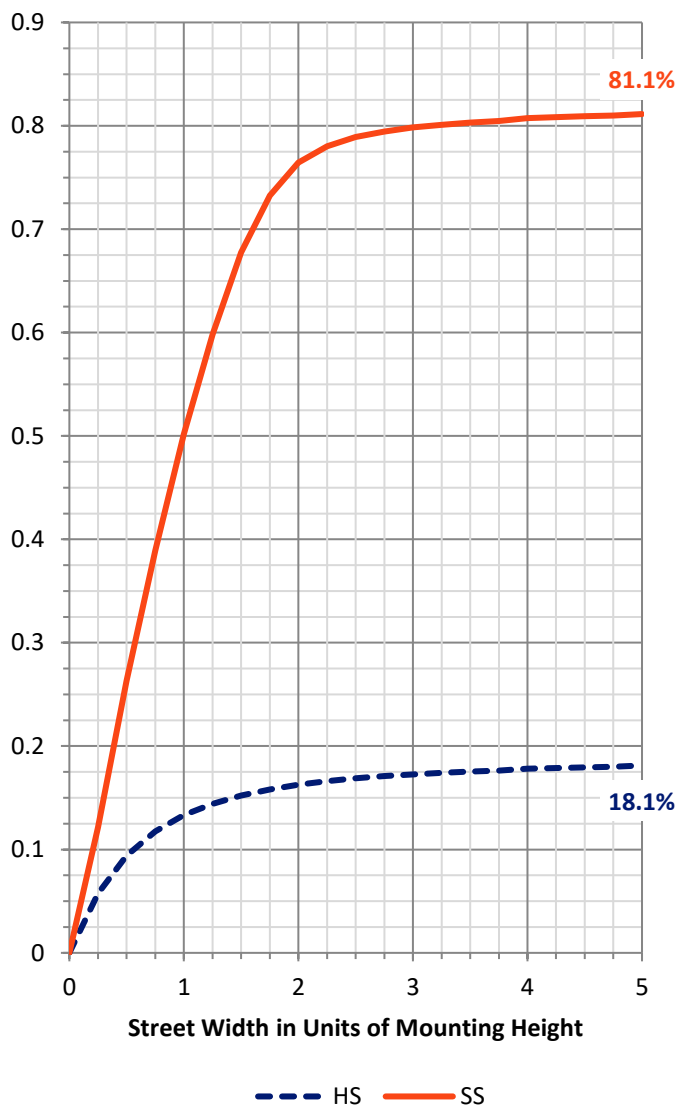
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1480.3   | 0.0    | 1480.3 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 6499.7   | 0.0    | 6499.7 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 7980.0   | 0.0    | 7980.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 98.4   | 1.2       |
| 10°-20°   | 317.9  | 4.0       |
| 20°-30°   | 557.1  | 7.0       |
| 30°-40°   | 825.9  | 10.4      |
| 40°-50°   | 1208.0 | 15.1      |
| 50°-60°   | 1662.2 | 20.8      |
| 60°-70°   | 1850.5 | 23.2      |
| 70°-80°   | 1253.9 | 15.7      |
| 80°-90°   | 206.1  | 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°    | 7980.0 | 100.0     |
| 0°-180°   | 7980.0 | 100.0     |

**Coefficient of Utilization**

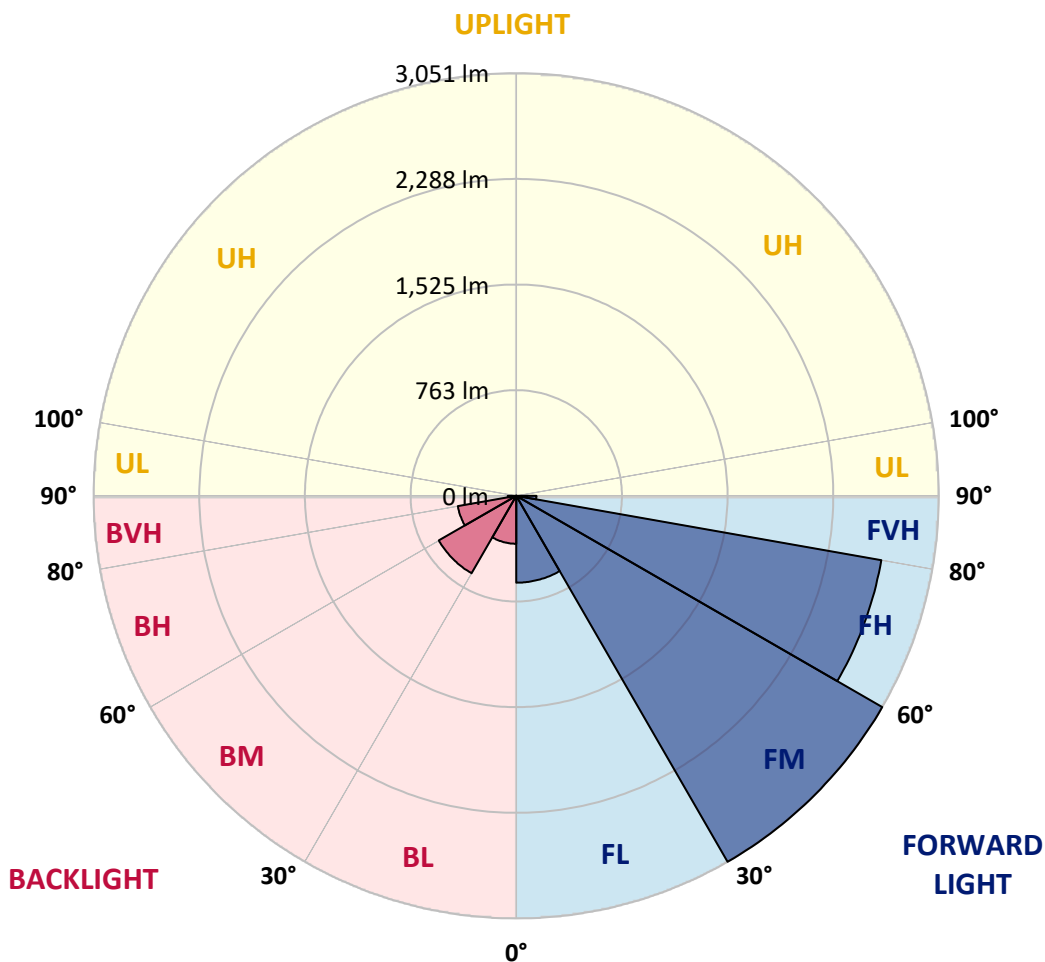


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 CATALOG NUMBER: GAW-SA2A-727-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 627.3  | 7.9       |                         |      |         |
| FM (30°-60°)   | 3050.9 | 38.2      |                         |      |         |
| FH (60°-80°)   | 2676.2 | 33.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 145.4  | 1.8       |                         |      | G2/225  |
| BL (0°-30°)    | 346.1  | 4.3       | B1/500                  |      |         |
| BM (30°-60°)   | 645.3  | 8.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 428.3  | 5.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 60.7   | 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-G2**  
 Type III Medium





REPORT NUMBER: P386339

CATALOG NUMBER: GAW-SA2A-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  | 981.7  |
| 2.5°  | 1084.5 | 1082.9 | 1077.1 | 1077.1 | 1066.1 | 1056.8 | 1039.2 | 1027.4 | 1013.3 | 1008.4 | 991.9  |
| 5°    | 1189.5 | 1190.0 | 1182.9 | 1177.9 | 1161.7 | 1141.9 | 1112.0 | 1084.8 | 1057.6 | 1046.6 | 1012.8 |
| 7.5°  | 1277.7 | 1276.6 | 1274.7 | 1270.5 | 1255.4 | 1235.1 | 1194.7 | 1154.3 | 1114.2 | 1097.7 | 1039.4 |
| 10°   | 1334.3 | 1336.7 | 1338.4 | 1340.3 | 1334.0 | 1319.4 | 1281.2 | 1232.1 | 1179.6 | 1157.1 | 1071.3 |
| 12.5° | 1362.9 | 1367.2 | 1374.9 | 1388.1 | 1398.6 | 1396.9 | 1369.2 | 1317.0 | 1254.6 | 1226.3 | 1111.2 |
| 15°   | 1379.6 | 1385.4 | 1397.5 | 1421.1 | 1450.5 | 1467.3 | 1459.8 | 1412.6 | 1343.1 | 1308.2 | 1159.8 |
| 17.5° | 1390.1 | 1394.7 | 1413.4 | 1445.0 | 1488.7 | 1533.2 | 1552.7 | 1513.2 | 1443.1 | 1403.2 | 1215.6 |
| 20°   | 1397.2 | 1400.8 | 1424.1 | 1461.2 | 1517.8 | 1588.7 | 1643.1 | 1633.2 | 1553.3 | 1501.6 | 1273.8 |
| 22.5° | 1413.1 | 1416.2 | 1438.4 | 1475.8 | 1538.4 | 1629.9 | 1730.2 | 1745.1 | 1669.5 | 1611.0 | 1336.2 |
| 25°   | 1457.6 | 1457.6 | 1476.3 | 1502.4 | 1561.2 | 1665.6 | 1803.9 | 1869.5 | 1788.2 | 1720.1 | 1393.9 |
| 27.5° | 1542.6 | 1541.7 | 1548.6 | 1557.7 | 1602.2 | 1701.9 | 1869.5 | 1979.4 | 1911.3 | 1836.8 | 1450.0 |
| 30°   | 1643.1 | 1648.6 | 1649.4 | 1645.0 | 1665.9 | 1747.3 | 1930.2 | 2095.4 | 2035.2 | 1955.0 | 1507.4 |
| 32.5° | 1772.5 | 1776.1 | 1772.0 | 1757.4 | 1754.4 | 1811.5 | 1989.9 | 2216.8 | 2169.3 | 2078.3 | 1559.9 |
| 35°   | 1936.8 | 1930.0 | 1917.1 | 1887.4 | 1859.1 | 1897.6 | 2058.0 | 2338.3 | 2319.9 | 2227.5 | 1632.1 |
| 37.5° | 2113.0 | 2113.2 | 2097.3 | 2030.0 | 1991.0 | 2007.5 | 2152.0 | 2475.9 | 2502.0 | 2405.0 | 1724.7 |
| 40°   | 2254.2 | 2261.6 | 2271.5 | 2183.0 | 2132.5 | 2155.3 | 2271.5 | 2635.6 | 2717.5 | 2615.5 | 1845.3 |
| 42.5° | 2352.8 | 2361.4 | 2389.4 | 2333.9 | 2281.4 | 2323.7 | 2412.2 | 2805.9 | 2959.3 | 2858.4 | 1986.6 |
| 45°   | 2457.3 | 2461.9 | 2481.7 | 2457.8 | 2424.3 | 2519.6 | 2570.7 | 2982.3 | 3215.1 | 3117.2 | 2144.6 |
| 47.5° | 2567.2 | 2572.1 | 2592.4 | 2576.5 | 2558.9 | 2702.6 | 2736.1 | 3148.6 | 3460.2 | 3401.6 | 2313.3 |
| 50°   | 2702.9 | 2706.2 | 2725.4 | 2696.6 | 2702.1 | 2840.6 | 2884.0 | 3301.1 | 3717.1 | 3657.2 | 2482.5 |
| 52.5° | 2888.1 | 2888.9 | 2915.6 | 2889.5 | 2863.6 | 2941.7 | 3011.2 | 3444.8 | 3918.5 | 3890.2 | 2651.8 |
| 55°   | 3033.2 | 3042.0 | 3129.3 | 3123.8 | 3109.0 | 3033.4 | 3117.5 | 3581.6 | 4098.2 | 4111.6 | 2831.5 |
| 57.5° | 2940.6 | 2974.9 | 3151.9 | 3276.6 | 3398.1 | 3261.8 | 3261.2 | 3735.8 | 4265.2 | 4329.0 | 3029.0 |
| 60°   | 2575.4 | 2622.1 | 2882.9 | 3159.6 | 3539.6 | 3659.1 | 3559.6 | 3924.0 | 4433.9 | 4544.4 | 3276.6 |
| 62.5° | 1839.3 | 1916.2 | 2269.6 | 2711.4 | 3345.6 | 3922.3 | 4166.9 | 4222.6 | 4663.4 | 4793.9 | 3598.4 |
| 65°   | 929.8  | 988.1  | 1284.3 | 1816.5 | 2672.9 | 3750.3 | 4826.9 | 4876.6 | 5062.1 | 5178.0 | 4093.8 |
| 67.5° | 564.9  | 586.9  | 731.4  | 1010.3 | 1638.7 | 2921.3 | 5042.3 | 5966.6 | 5833.6 | 5895.2 | 4800.2 |
| 70°   | 416.3  | 432.5  | 522.6  | 671.0  | 942.5  | 1714.3 | 4381.2 | 6744.5 | 6657.1 | 6650.2 | 5322.3 |
| 72°   | 324.2  | 336.0  | 415.7  | 542.1  | 689.1  | 1028.5 | 3175.5 | 6457.3 | 6892.8 | 6858.2 | 5274.5 |
| 72.5° | 307.5  | 317.9  | 390.4  | 510.2  | 651.2  | 932.3  | 2855.1 | 6263.6 | 6875.8 | 6860.1 | 5212.6 |
| 75°   | 242.1  | 249.5  | 289.1  | 394.6  | 509.7  | 528.9  | 1564.5 | 4854.1 | 6099.6 | 6353.2 | 4688.4 |
| 77.5° | 200.3  | 201.4  | 222.3  | 287.1  | 397.3  | 374.0  | 768.5  | 3367.8 | 4367.7 | 4646.6 | 3321.1 |
| 80°   | 163.2  | 164.6  | 174.5  | 201.4  | 300.6  | 276.7  | 364.9  | 1936.6 | 2445.4 | 2448.5 | 1579.4 |
| 82.5° | 130.0  | 130.2  | 141.2  | 147.3  | 216.0  | 197.8  | 209.1  | 909.2  | 1068.6 | 1027.9 | 567.7  |
| 85°   | 91.5   | 89.6   | 137.9  | 120.9  | 141.2  | 126.9  | 115.4  | 359.9  | 441.8  | 422.6  | 177.8  |
| 87.5° | 30.5   | 31.6   | 61.3   | 78.3   | 82.4   | 72.0   | 51.4   | 137.9  | 166.8  | 165.4  | 56.3   |
| 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-727-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 981.7  | 981.7  | 981.7 | 981.7 | 981.7 | 981.7 | 981.7 | 981.7 | 981.7 | 981.7 | 981.7 |
| 2.5°  | 986.7  | 977.9  | 965.0 | 950.7 | 939.4 | 927.9 | 919.4 | 915.0 | 910.0 | 905.9 | 910.9 |
| 5°    | 997.1  | 980.6  | 953.2 | 926.2 | 906.5 | 888.9 | 876.2 | 869.6 | 863.6 | 859.5 | 860.0 |
| 7.5°  | 1014.2 | 987.5  | 941.4 | 902.1 | 874.6 | 855.6 | 842.7 | 838.3 | 834.5 | 833.4 | 834.7 |
| 10°   | 1032.3 | 993.0  | 925.7 | 873.5 | 842.2 | 826.5 | 820.7 | 823.8 | 826.5 | 829.0 | 831.7 |
| 12.5° | 1052.9 | 998.0  | 902.9 | 840.0 | 813.3 | 807.3 | 813.0 | 826.2 | 835.8 | 841.6 | 845.2 |
| 15°   | 1079.8 | 1002.4 | 876.5 | 806.4 | 788.6 | 795.5 | 815.0 | 837.8 | 854.5 | 865.2 | 866.9 |
| 17.5° | 1104.6 | 1002.1 | 842.7 | 772.6 | 768.5 | 788.6 | 818.0 | 850.1 | 872.7 | 887.8 | 890.8 |
| 20°   | 1130.1 | 994.7  | 803.4 | 739.7 | 748.2 | 781.2 | 819.4 | 858.1 | 885.3 | 902.9 | 907.0 |
| 22.5° | 1154.0 | 981.7  | 760.3 | 709.7 | 731.2 | 771.3 | 814.1 | 853.4 | 880.6 | 894.9 | 899.3 |
| 25°   | 1170.2 | 959.2  | 716.6 | 684.4 | 716.0 | 759.2 | 797.1 | 828.7 | 849.0 | 856.2 | 857.3 |
| 27.5° | 1178.5 | 929.8  | 675.4 | 662.5 | 700.4 | 739.4 | 765.5 | 781.2 | 786.9 | 786.4 | 785.3 |
| 30°   | 1179.6 | 891.1  | 639.9 | 644.6 | 682.3 | 710.3 | 722.6 | 719.6 | 712.2 | 699.6 | 700.7 |
| 32.5° | 1176.0 | 847.4  | 610.3 | 627.6 | 659.2 | 674.8 | 675.4 | 660.8 | 641.0 | 621.0 | 615.5 |
| 35°   | 1177.1 | 804.5  | 584.2 | 608.3 | 631.1 | 638.0 | 631.7 | 610.3 | 583.3 | 557.5 | 552.0 |
| 37.5° | 1189.2 | 767.2  | 561.6 | 586.1 | 600.1 | 601.7 | 592.7 | 570.1 | 550.4 | 525.1 | 522.9 |
| 40°   | 1218.0 | 740.5  | 540.2 | 561.1 | 569.0 | 569.9 | 557.0 | 541.0 | 542.7 | 529.2 | 528.9 |
| 42.5° | 1270.0 | 729.0  | 521.2 | 535.0 | 539.9 | 541.6 | 531.7 | 521.5 | 535.8 | 527.0 | 524.0 |
| 45°   | 1337.0 | 731.7  | 505.3 | 509.4 | 518.5 | 526.2 | 520.1 | 507.8 | 513.3 | 475.1 | 462.4 |
| 47.5° | 1414.5 | 749.3  | 492.7 | 487.4 | 503.1 | 517.7 | 508.3 | 489.6 | 470.1 | 432.2 | 425.1 |
| 50°   | 1505.2 | 776.5  | 481.1 | 465.7 | 486.3 | 506.1 | 496.8 | 470.1 | 440.7 | 422.3 | 419.8 |
| 52.5° | 1599.7 | 809.7  | 469.6 | 441.8 | 465.2 | 497.3 | 492.7 | 465.7 | 429.5 | 411.3 | 408.0 |
| 55°   | 1706.9 | 843.3  | 455.0 | 414.1 | 442.4 | 493.2 | 490.7 | 449.8 | 420.9 | 410.8 | 408.3 |
| 57.5° | 1840.1 | 881.5  | 435.8 | 385.2 | 420.9 | 478.4 | 470.7 | 440.2 | 412.2 | 404.5 | 403.6 |
| 60°   | 2013.8 | 937.8  | 408.0 | 354.5 | 394.8 | 455.6 | 453.9 | 426.2 | 398.1 | 392.6 | 391.5 |
| 62.5° | 2274.3 | 1030.9 | 369.8 | 323.7 | 365.7 | 416.8 | 431.9 | 407.2 | 383.3 | 383.0 | 383.6 |
| 65°   | 2678.2 | 1171.1 | 328.3 | 296.8 | 336.3 | 384.1 | 406.4 | 387.7 | 368.2 | 373.7 | 374.5 |
| 67.5° | 3146.4 | 1287.3 | 287.7 | 270.4 | 306.4 | 353.1 | 383.3 | 368.2 | 348.1 | 362.4 | 362.7 |
| 70°   | 3302.2 | 1183.4 | 252.0 | 244.3 | 275.3 | 323.1 | 358.3 | 346.8 | 326.4 | 340.7 | 339.3 |
| 72°   | 3073.0 | 955.4  | 228.9 | 224.5 | 252.0 | 298.4 | 336.0 | 326.7 | 306.6 | 316.3 | 312.7 |
| 72.5° | 3000.7 | 910.9  | 223.1 | 219.5 | 245.6 | 292.1 | 330.3 | 321.8 | 301.7 | 309.9 | 306.6 |
| 75°   | 2676.8 | 791.1  | 191.8 | 192.6 | 214.3 | 261.3 | 297.8 | 295.1 | 274.5 | 275.3 | 274.2 |
| 77.5° | 1941.5 | 580.0  | 161.6 | 167.1 | 182.4 | 229.7 | 265.2 | 263.5 | 241.0 | 236.9 | 236.0 |
| 80°   | 901.0  | 295.9  | 131.6 | 134.1 | 150.0 | 192.1 | 226.1 | 223.9 | 205.8 | 200.6 | 197.6 |
| 82.5° | 308.6  | 140.7  | 98.9  | 100.6 | 116.2 | 154.7 | 196.2 | 194.8 | 179.7 | 169.5 | 163.2 |
| 85°   | 110.2  | 70.1   | 69.2  | 67.6  | 83.0  | 121.7 | 170.9 | 163.5 | 141.2 | 120.3 | 119.8 |
| 87.5° | 35.7   | 29.9   | 35.7  | 35.4  | 48.4  | 82.4  | 124.2 | 105.8 | 102.5 | 85.2  | 83.5  |
| 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)