

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: P386794

Luminaire Tested: GAW-SA2C-727-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-727-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8766 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

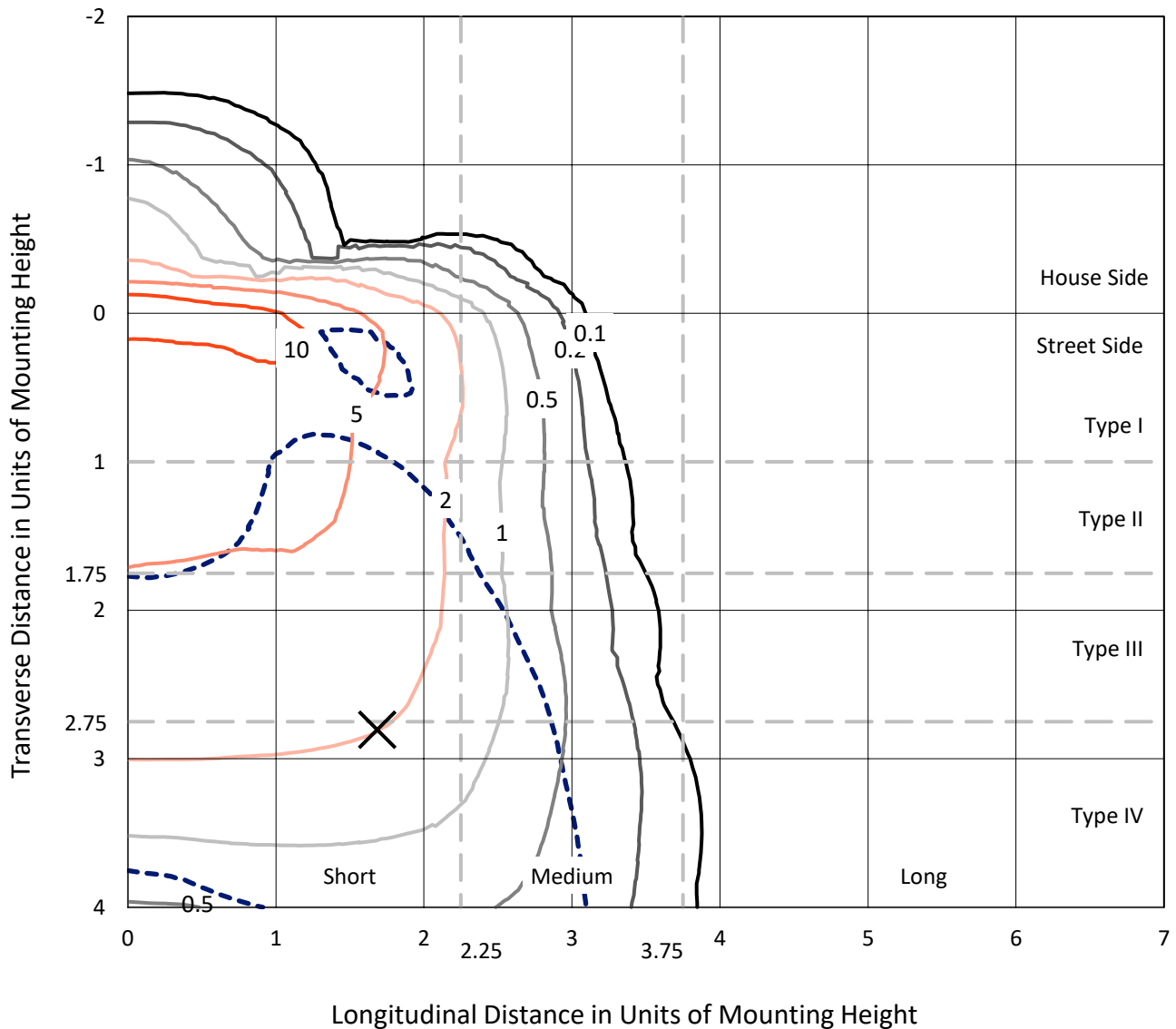
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P386794  
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## Iso-Footcandle Lines of Horizontal Illumination

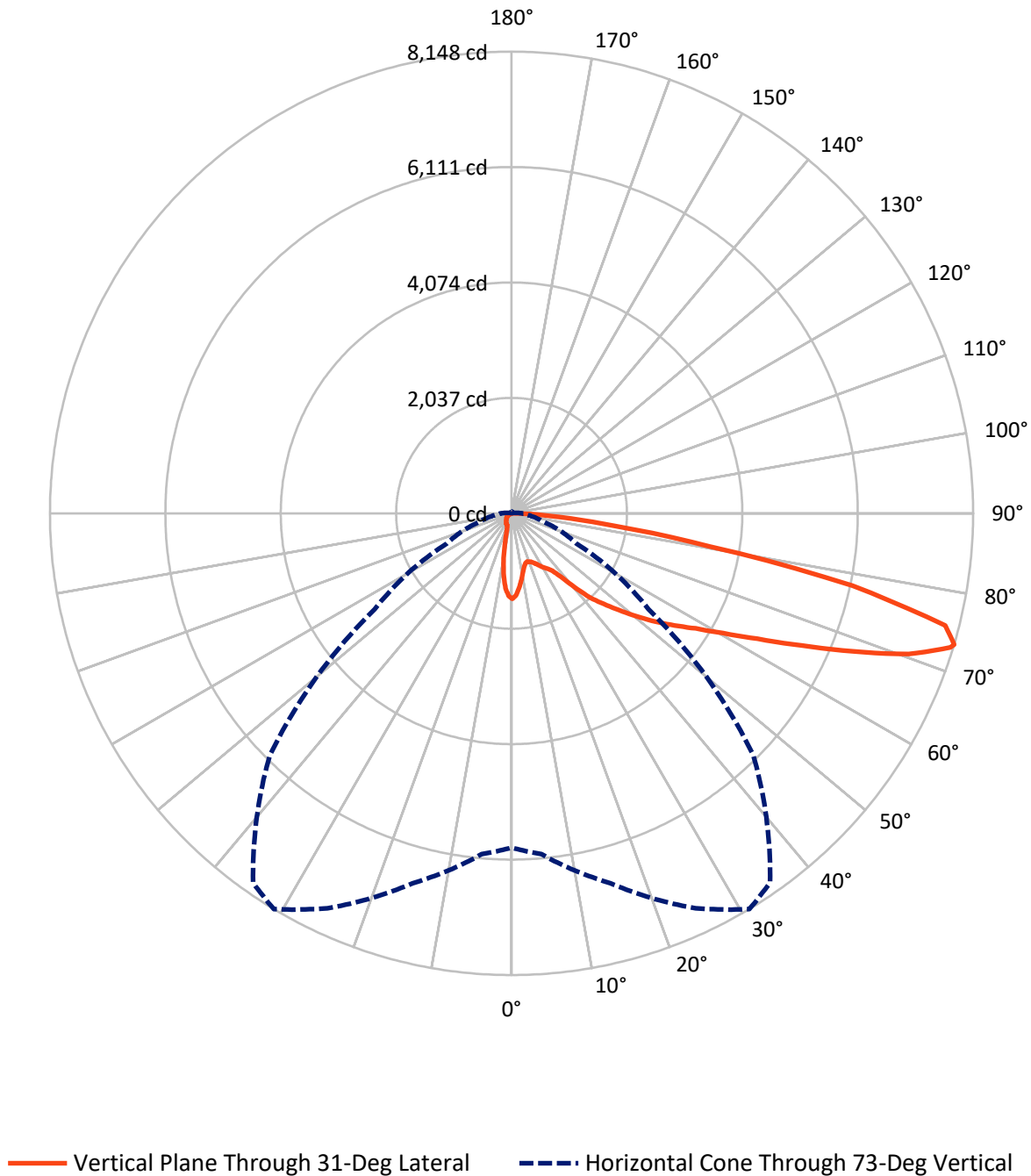
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P386794  
CATALOG NUMBER: GAW-SA2C-727-U-T4FT-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P386794

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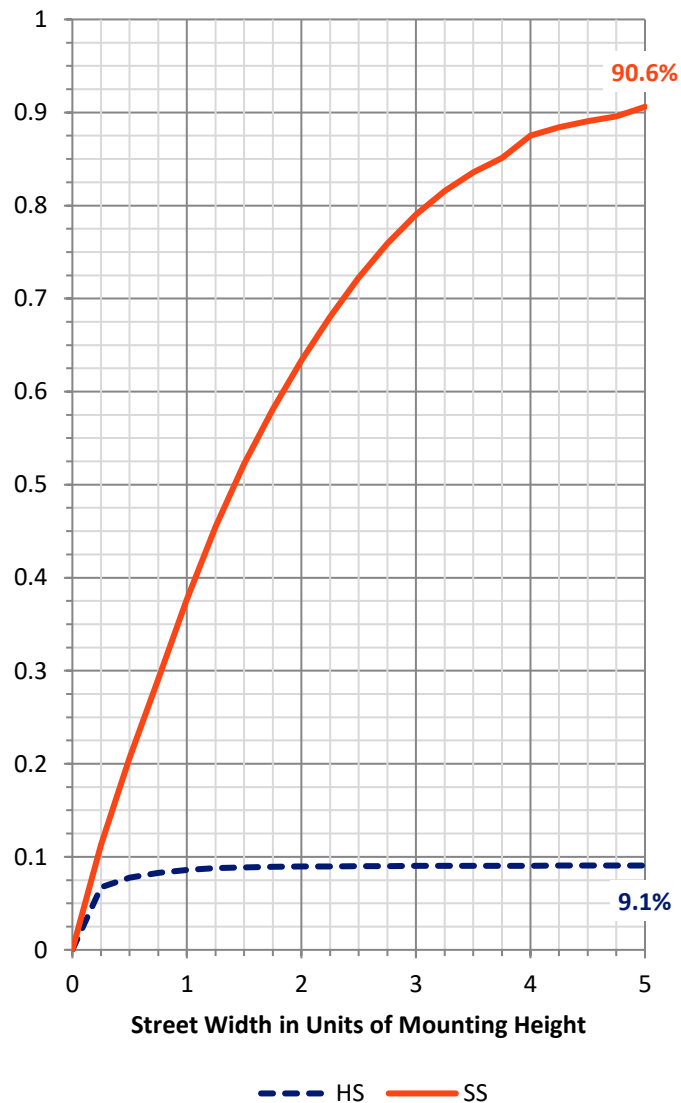
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 799.1    | 0.0    | 799.1  |
|                    | % Fixture | 9.1      | 0.0    | 9.1    |
| <b>Street Side</b> | Lumens    | 7966.9   | 0.0    | 7966.9 |
|                    | % Fixture | 90.9     | 0.0    | 90.9   |
| <b>Total</b>       | Lumens    | 8766.0   | 0.0    | 8766.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 125.1  | 1.4       |
| 10°-20°   | 271.5  | 3.1       |
| 20°-30°   | 406.8  | 4.6       |
| 30°-40°   | 647.3  | 7.4       |
| 40°-50°   | 1155.8 | 13.2      |
| 50°-60°   | 1793.5 | 20.5      |
| 60°-70°   | 2384.2 | 27.2      |
| 70°-80°   | 1793.4 | 20.5      |
| 80°-90°   | 188.4  | 2.1       |
| 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°    | 8766.0 | 100.0     |
| 0°-180°   | 8766.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P386794

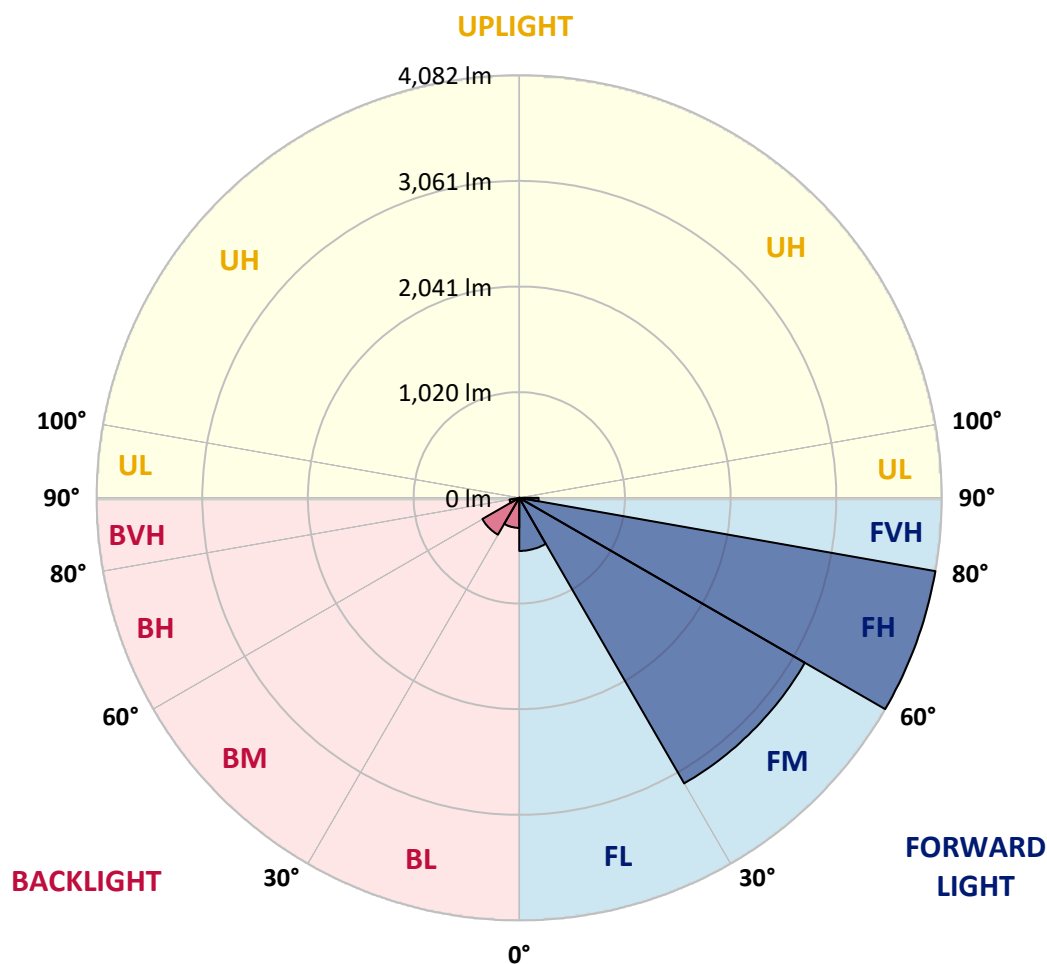
CATALOG NUMBER: GAW-SA2C-727-U-T4FT-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 512.8  | 5.9       |                         |      |         |
| FM   | (30°-60°)   | 3185.3 | 36.3      |                         |      |         |
| FH   | (60°-80°)   | 4082.0 | 46.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 186.9  | 2.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 290.6  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 411.3  | 4.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 95.6   | 1.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.6    | 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-G2**

Type IV Short





REPORT NUMBER: P386794

CATALOG NUMBER: GAW-SA2C-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 31°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 |
| 2.5°  | 1429.3 | 1435.3 | 1441.7 | 1443.0 | 1453.7 | 1454.2 | 1469.6 | 1481.2 | 1492.8 | 1503.9 | 1507.8 |
| 5°    | 1282.6 | 1292.4 | 1304.0 | 1315.6 | 1338.3 | 1347.3 | 1385.1 | 1423.7 | 1460.6 | 1495.8 | 1512.9 |
| 7.5°  | 1126.0 | 1137.2 | 1153.5 | 1182.2 | 1207.5 | 1225.1 | 1284.7 | 1353.4 | 1422.0 | 1486.8 | 1524.1 |
| 10°   | 983.2  | 993.5  | 1010.6 | 1041.1 | 1080.1 | 1104.1 | 1184.3 | 1279.6 | 1380.4 | 1478.6 | 1540.8 |
| 12.5° | 892.2  | 897.8  | 907.2  | 939.8  | 975.0  | 1002.0 | 1096.4 | 1214.4 | 1346.1 | 1478.2 | 1567.8 |
| 15°   | 875.5  | 877.2  | 869.5  | 884.1  | 911.5  | 937.7  | 1033.4 | 1161.6 | 1319.9 | 1485.0 | 1603.0 |
| 17.5° | 902.1  | 901.2  | 875.5  | 873.8  | 895.7  | 917.1  | 1002.5 | 1125.2 | 1301.5 | 1500.9 | 1648.5 |
| 20°   | 942.4  | 939.4  | 894.8  | 886.7  | 909.8  | 930.0  | 1000.3 | 1111.4 | 1294.6 | 1527.5 | 1703.8 |
| 22.5° | 996.0  | 990.9  | 921.0  | 912.4  | 937.3  | 958.3  | 1026.9 | 1124.7 | 1300.6 | 1563.1 | 1768.2 |
| 25°   | 1062.5 | 1054.8 | 966.0  | 956.6  | 981.9  | 1002.9 | 1074.5 | 1162.9 | 1318.6 | 1606.4 | 1849.7 |
| 27.5° | 1137.6 | 1126.4 | 1038.1 | 1013.6 | 1042.4 | 1064.2 | 1138.0 | 1221.2 | 1346.9 | 1652.3 | 1949.6 |
| 30°   | 1208.4 | 1193.8 | 1114.0 | 1073.7 | 1108.9 | 1133.3 | 1206.7 | 1290.7 | 1392.4 | 1723.1 | 2086.4 |
| 32.5° | 1279.6 | 1263.3 | 1181.8 | 1133.7 | 1165.5 | 1192.1 | 1277.4 | 1386.4 | 1477.8 | 1831.2 | 2268.3 |
| 35°   | 1443.4 | 1426.3 | 1326.3 | 1247.0 | 1246.5 | 1261.6 | 1376.5 | 1517.2 | 1590.6 | 1981.8 | 2485.4 |
| 37.5° | 1719.3 | 1709.4 | 1614.2 | 1463.6 | 1423.3 | 1406.5 | 1511.6 | 1673.4 | 1752.7 | 2189.0 | 2730.3 |
| 40°   | 2021.2 | 2012.7 | 1905.9 | 1769.4 | 1708.1 | 1666.9 | 1705.5 | 1890.8 | 1981.8 | 2442.0 | 2980.4 |
| 42.5° | 2362.3 | 2321.5 | 2131.1 | 2090.3 | 2035.4 | 2004.1 | 1969.3 | 2158.9 | 2263.2 | 2717.4 | 3228.3 |
| 45°   | 2672.0 | 2603.3 | 2356.3 | 2294.5 | 2282.0 | 2289.8 | 2309.1 | 2519.3 | 2579.7 | 3044.7 | 3475.4 |
| 47.5° | 2856.4 | 2802.4 | 2612.8 | 2553.6 | 2550.1 | 2601.2 | 2747.0 | 2926.3 | 2895.0 | 3330.0 | 3692.9 |
| 50°   | 3031.9 | 2983.0 | 2825.5 | 2840.1 | 2856.0 | 2925.5 | 3244.2 | 3345.0 | 3182.9 | 3588.6 | 3892.3 |
| 52.5° | 3173.8 | 3099.2 | 3016.8 | 3098.8 | 3176.8 | 3288.8 | 3757.2 | 3720.8 | 3387.0 | 3794.5 | 4063.1 |
| 55°   | 3255.8 | 3221.9 | 3261.8 | 3344.1 | 3490.8 | 3672.7 | 4241.5 | 4033.5 | 3536.3 | 3982.4 | 4176.7 |
| 57.5° | 3556.0 | 3489.6 | 3568.9 | 3640.1 | 3831.4 | 4085.8 | 4656.3 | 4266.4 | 3644.0 | 4098.7 | 4202.9 |
| 60°   | 3919.4 | 3865.7 | 3912.5 | 4030.9 | 4289.1 | 4588.1 | 5044.1 | 4456.4 | 3700.2 | 4173.3 | 4135.1 |
| 62.5° | 4497.6 | 4426.8 | 4397.7 | 4530.2 | 4872.5 | 5198.9 | 5338.4 | 4588.1 | 3687.7 | 4140.3 | 3902.6 |
| 65°   | 5272.3 | 5198.9 | 5068.5 | 5188.6 | 5624.0 | 5854.4 | 5667.4 | 4616.0 | 3601.9 | 3873.0 | 3315.0 |
| 67.5° | 6065.9 | 6012.7 | 5901.1 | 6103.6 | 6496.5 | 6570.7 | 6015.2 | 4548.2 | 3325.7 | 3140.4 | 2342.1 |
| 70°   | 6590.0 | 6567.3 | 6639.8 | 7087.6 | 7438.1 | 7416.6 | 6334.4 | 4184.0 | 2592.2 | 1931.2 | 1158.6 |
| 72.5° | 6212.1 | 6321.1 | 6856.4 | 7668.4 | 8096.5 | 7921.5 | 6170.5 | 3212.9 | 1481.6 | 743.0  | 335.0  |
| 73°   | 5899.0 | 6038.4 | 6759.1 | 7690.3 | 8148.4 | 7956.7 | 6032.8 | 2949.1 | 1262.8 | 586.4  | 253.9  |
| 75°   | 4103.8 | 4275.0 | 5595.7 | 7162.3 | 7905.7 | 7580.9 | 5028.6 | 1805.0 | 585.1  | 259.9  | 102.5  |
| 77.5° | 1992.5 | 2119.0 | 3081.2 | 5174.9 | 6148.2 | 5923.0 | 3130.5 | 672.6  | 264.2  | 162.6  | 47.2   |
| 80°   | 743.8  | 827.0  | 1337.5 | 2633.8 | 3553.0 | 3646.1 | 1376.9 | 254.4  | 175.9  | 130.8  | 24.0   |
| 82.5° | 194.7  | 217.1  | 493.3  | 1174.5 | 1820.9 | 1905.9 | 434.1  | 128.3  | 128.7  | 107.7  | 14.6   |
| 85°   | 62.2   | 71.2   | 154.0  | 527.2  | 857.9  | 753.2  | 113.2  | 62.2   | 93.5   | 80.2   | 8.2    |
| 87.5° | 7.7    | 9.9    | 48.9   | 124.0  | 189.2  | 105.1  | 17.6   | 18.4   | 39.9   | 44.6   | 4.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P386794

CATALOG NUMBER: GAW-SA2C-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 | 1508.2 |
| 2.5°  | 1511.6 | 1509.5 | 1509.9 | 1498.8 | 1491.5 | 1476.9 | 1461.9 | 1455.0 | 1447.7 | 1444.7 | 1447.7 |
| 5°    | 1519.4 | 1515.5 | 1504.3 | 1470.0 | 1433.6 | 1386.4 | 1342.2 | 1308.7 | 1266.7 | 1255.1 | 1267.1 |
| 7.5°  | 1531.4 | 1523.7 | 1491.1 | 1421.1 | 1340.1 | 1250.0 | 1148.7 | 1075.0 | 1014.5 | 975.4  | 989.6  |
| 10°   | 1549.0 | 1534.4 | 1468.7 | 1349.9 | 1204.9 | 1045.4 | 901.7  | 789.7  | 710.4  | 677.8  | 676.5  |
| 12.5° | 1578.6 | 1551.1 | 1441.3 | 1257.3 | 1039.8 | 827.0  | 638.7  | 517.3  | 453.0  | 411.4  | 410.5  |
| 15°   | 1611.2 | 1570.8 | 1406.5 | 1146.2 | 847.6  | 592.4  | 411.4  | 319.1  | 277.5  | 264.2  | 262.5  |
| 17.5° | 1651.1 | 1593.6 | 1361.5 | 1009.3 | 646.4  | 392.5  | 268.5  | 241.9  | 240.2  | 238.9  | 238.9  |
| 20°   | 1701.2 | 1620.6 | 1303.6 | 852.8  | 458.6  | 262.1  | 228.2  | 229.9  | 230.8  | 229.1  | 229.5  |
| 22.5° | 1759.6 | 1648.0 | 1234.5 | 684.6  | 310.1  | 219.2  | 218.3  | 220.5  | 221.3  | 220.5  | 220.9  |
| 25°   | 1827.4 | 1679.8 | 1150.5 | 508.3  | 223.9  | 208.0  | 210.2  | 213.2  | 215.3  | 215.3  | 215.3  |
| 27.5° | 1911.4 | 1718.4 | 1049.2 | 354.7  | 193.5  | 196.5  | 202.5  | 208.0  | 211.0  | 211.9  | 211.9  |
| 30°   | 2020.8 | 1766.4 | 927.8  | 243.2  | 175.9  | 181.0  | 192.2  | 202.9  | 208.5  | 209.3  | 209.8  |
| 32.5° | 2158.9 | 1820.5 | 787.1  | 179.7  | 160.9  | 164.7  | 176.7  | 194.7  | 205.5  | 207.2  | 207.2  |
| 35°   | 2317.2 | 1883.1 | 635.7  | 156.6  | 150.1  | 151.4  | 160.9  | 181.4  | 200.3  | 205.0  | 205.5  |
| 37.5° | 2490.5 | 1944.9 | 483.4  | 146.3  | 141.1  | 141.1  | 148.0  | 165.6  | 187.9  | 202.5  | 204.2  |
| 40°   | 2652.2 | 1982.2 | 338.9  | 138.1  | 133.0  | 133.0  | 139.0  | 151.9  | 172.9  | 194.7  | 199.5  |
| 42.5° | 2801.5 | 1995.1 | 235.9  | 130.4  | 125.3  | 126.5  | 131.7  | 142.0  | 157.9  | 179.7  | 184.0  |
| 45°   | 2955.1 | 1992.9 | 172.0  | 121.4  | 117.5  | 121.4  | 125.3  | 133.0  | 144.6  | 157.0  | 157.9  |
| 47.5° | 3070.9 | 1974.9 | 136.4  | 112.8  | 110.2  | 115.4  | 118.8  | 124.0  | 130.4  | 129.5  | 129.5  |
| 50°   | 3179.4 | 1931.2 | 109.8  | 101.2  | 102.9  | 109.0  | 110.7  | 112.4  | 112.8  | 104.7  | 103.8  |
| 52.5° | 3261.8 | 1863.0 | 87.9   | 88.8   | 95.7   | 101.7  | 99.9   | 97.4   | 93.1   | 83.2   | 81.5   |
| 55°   | 3289.2 | 1731.7 | 69.1   | 73.4   | 84.9   | 92.7   | 86.2   | 80.6   | 72.5   | 64.3   | 62.6   |
| 57.5° | 3239.5 | 1562.3 | 56.2   | 57.1   | 71.6   | 78.1   | 70.8   | 64.3   | 55.3   | 48.5   | 47.2   |
| 60°   | 3134.0 | 1373.9 | 46.3   | 42.9   | 55.3   | 60.9   | 56.2   | 49.8   | 41.6   | 36.5   | 36.0   |
| 62.5° | 2924.6 | 1173.2 | 38.2   | 33.5   | 42.0   | 46.8   | 43.8   | 39.0   | 32.2   | 28.7   | 28.3   |
| 65°   | 2484.5 | 938.6  | 30.9   | 27.0   | 32.6   | 36.5   | 33.9   | 30.5   | 25.3   | 22.7   | 22.3   |
| 67.5° | 1734.3 | 634.4  | 25.3   | 22.3   | 25.7   | 28.7   | 26.6   | 24.9   | 20.2   | 19.7   | 20.2   |
| 70°   | 836.5  | 305.8  | 21.0   | 18.0   | 20.2   | 22.3   | 21.4   | 20.2   | 19.3   | 22.3   | 25.7   |
| 72.5° | 239.8  | 102.5  | 16.7   | 15.0   | 16.3   | 17.6   | 18.4   | 18.0   | 21.0   | 27.0   | 31.3   |
| 73°   | 184.5  | 82.8   | 15.9   | 14.2   | 15.4   | 17.2   | 18.0   | 17.6   | 21.4   | 27.5   | 31.3   |
| 75°   | 78.9   | 39.9   | 12.0   | 11.6   | 12.9   | 15.0   | 15.9   | 15.9   | 21.4   | 27.9   | 30.0   |
| 77.5° | 35.6   | 21.4   | 7.7    | 9.0    | 11.2   | 12.0   | 13.3   | 13.3   | 17.2   | 21.4   | 21.4   |
| 80°   | 20.2   | 11.6   | 6.0    | 6.9    | 8.2    | 8.2    | 8.2    | 7.3    | 7.7    | 8.6    | 9.4    |
| 82.5° | 12.9   | 7.7    | 4.7    | 5.6    | 5.1    | 4.3    | 3.4    | 3.4    | 3.0    | 3.4    | 4.3    |
| 85°   | 7.3    | 4.3    | 4.3    | 3.4    | 2.1    | 1.7    | 2.1    | 1.7    | 0.4    | 0.0    | 0.4    |
| 87.5° | 4.3    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)