

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: P387130

Luminaire Tested: GAW-SA2D-760-U-T4FT-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387130  
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-SA2D-760-U-T4FT-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA 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: 11499 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

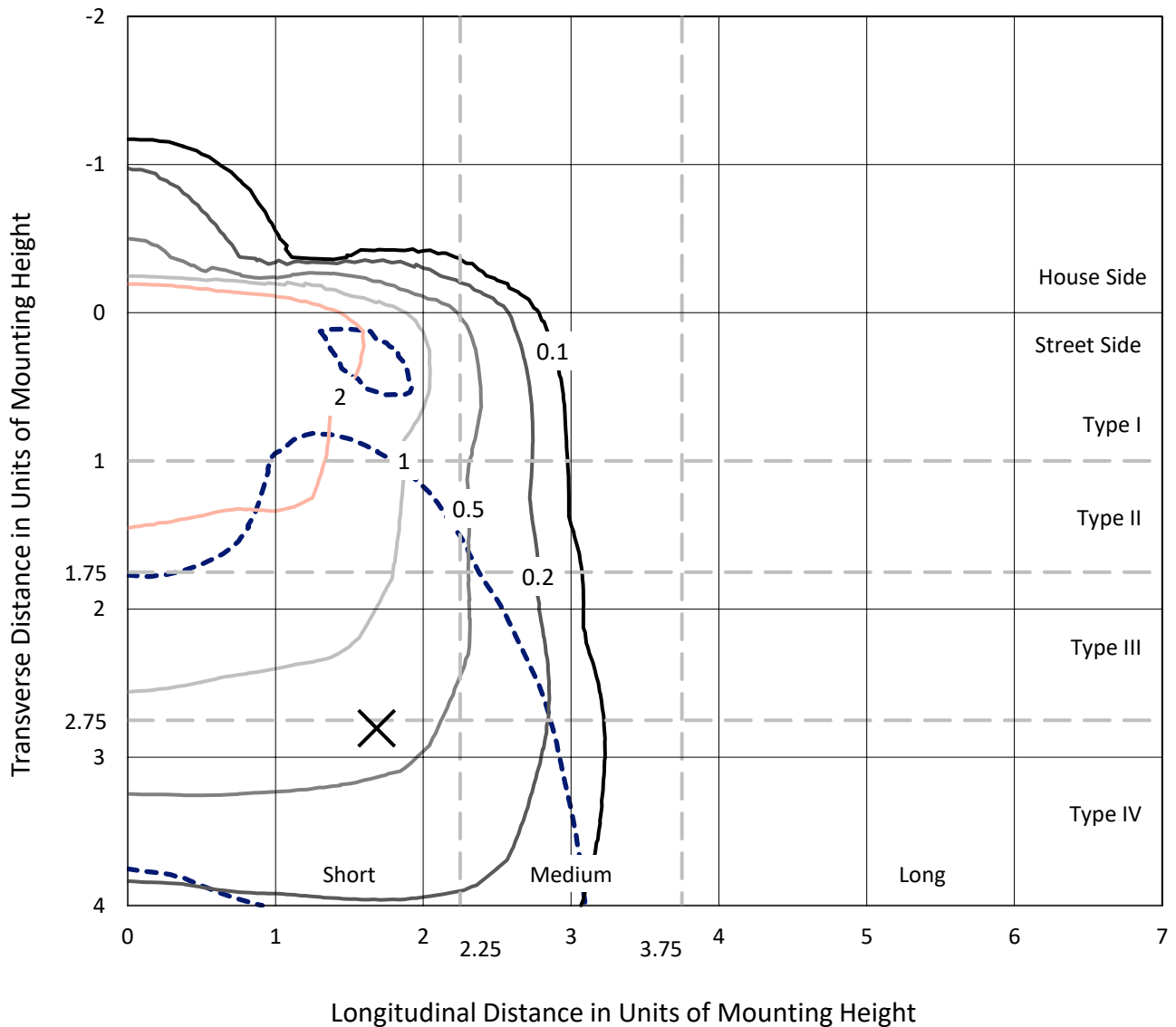
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P387130  
 CATALOG NUMBER: GAW-SA2D-760-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

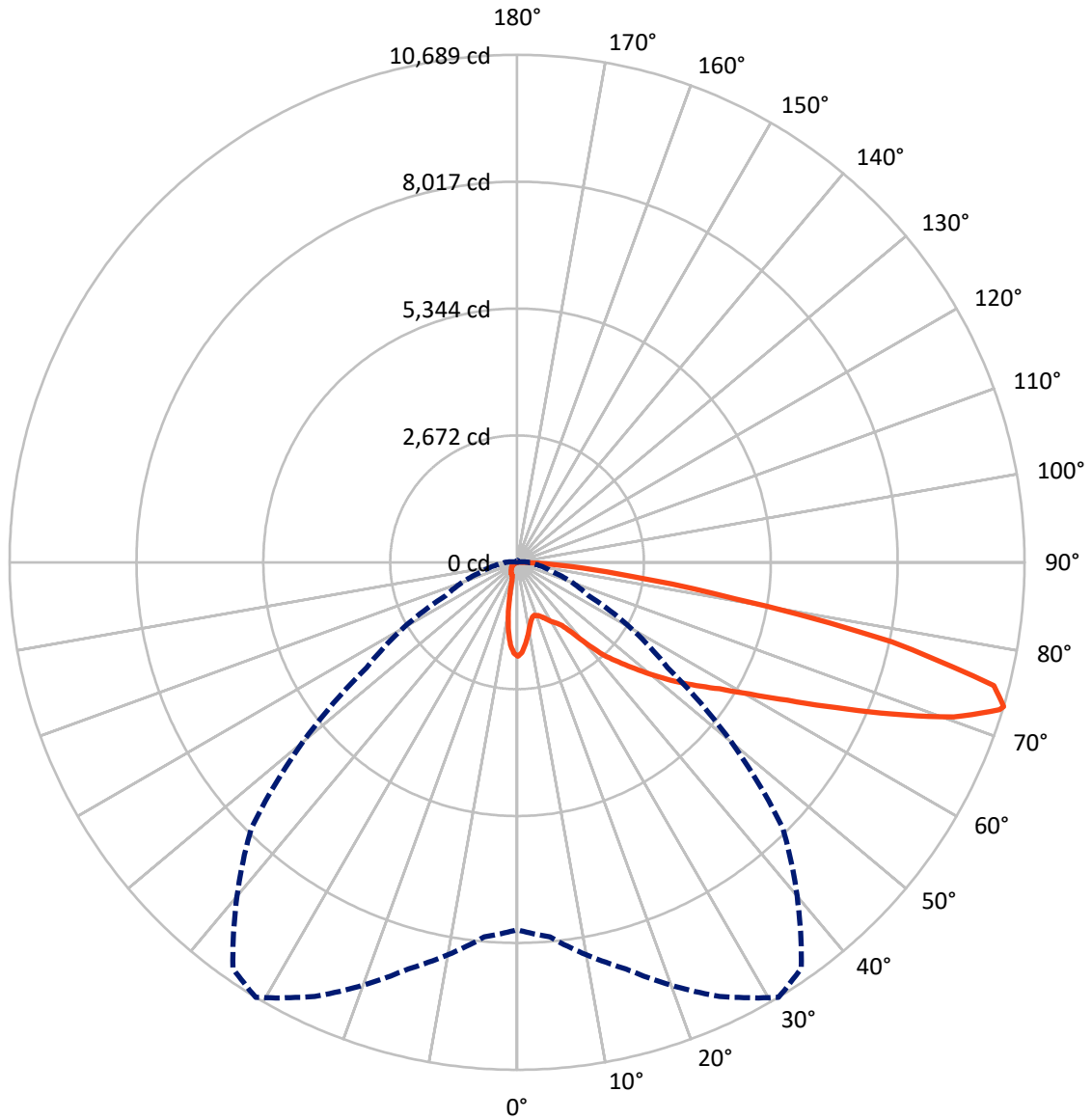
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P387130  
CATALOG NUMBER: GAW-SA2D-760-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P387130  
 CATALOG NUMBER: GAW-SA2D-760-U-T4FT-HSS

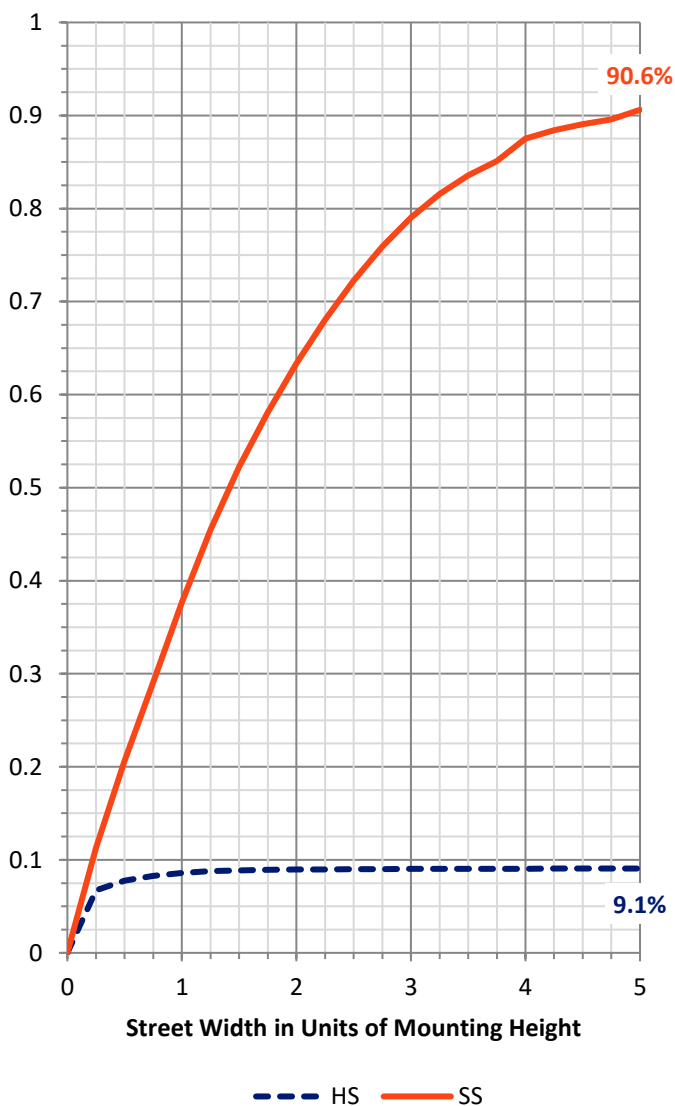
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1048.2   | 0.0    | 1048.2  |
|                    | % Fixture | 9.1      | 0.0    | 9.1     |
| <b>Street Side</b> | Lumens    | 10450.8  | 0.0    | 10450.8 |
|                    | % Fixture | 90.9     | 0.0    | 90.9    |
| <b>Total</b>       | Lumens    | 11499.0  | 0.0    | 11499.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 164.0   | 1.4       |
| 10°-20°   | 356.2   | 3.1       |
| 20°-30°   | 533.7   | 4.6       |
| 30°-40°   | 849.0   | 7.4       |
| 40°-50°   | 1516.2  | 13.2      |
| 50°-60°   | 2352.7  | 20.5      |
| 60°-70°   | 3127.5  | 27.2      |
| 70°-80°   | 2352.5  | 20.5      |
| 80°-90°   | 247.2   | 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°    | 11499.0 | 100.0     |
| 0°-180°   | 11499.0 | 100.0     |

**Coefficient of Utilization**

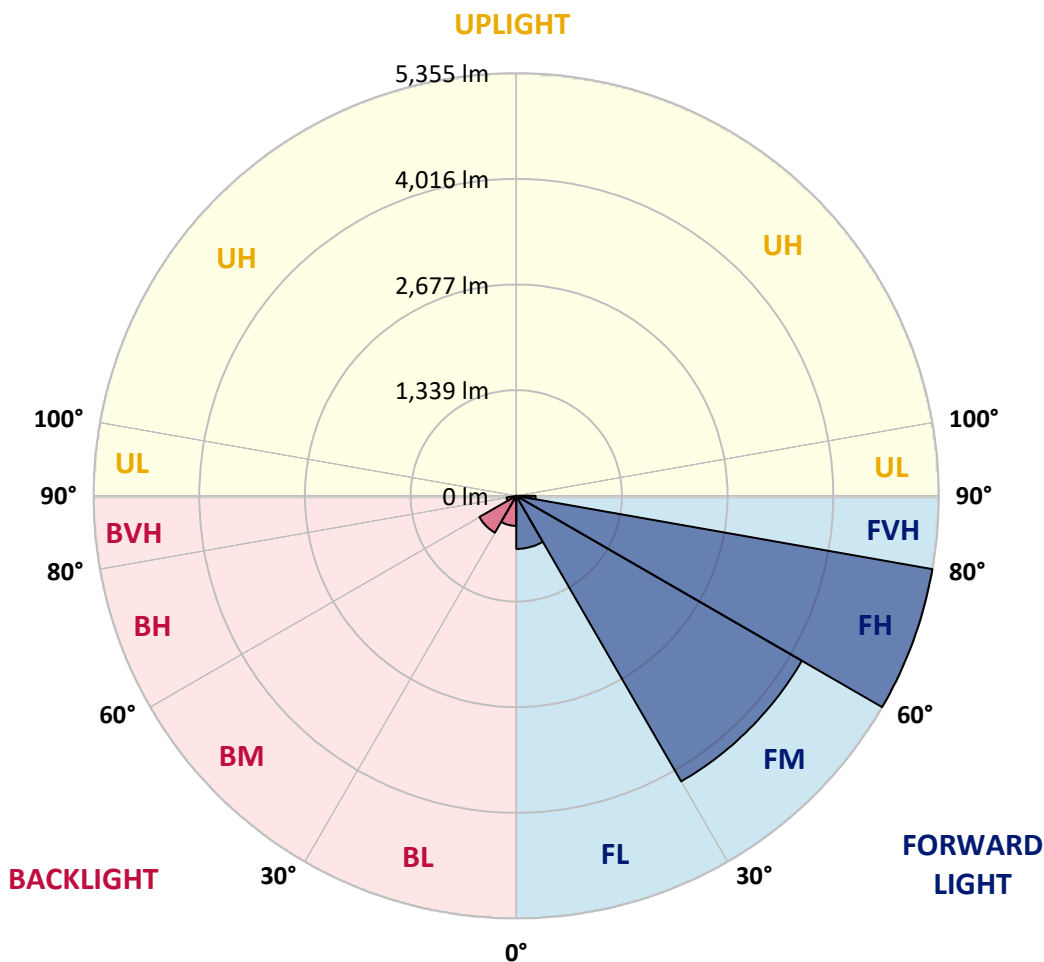


REPORT NUMBER: P387130  
 CATALOG NUMBER: GAW-SA2D-760-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 672.7  | 5.9       |                         |      |         |
| FM (30°-60°)   | 4178.3 | 36.3      |                         |      |         |
| FH (60°-80°)   | 5354.7 | 46.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 245.1  | 2.1       |                         |      | G3/500  |
| BL (0°-30°)    | 381.2  | 3.3       | B1/500                  |      |         |
| BM (30°-60°)   | 539.5  | 4.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 125.4  | 1.1       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.1    | 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-G3**  
 Type IV Short





REPORT NUMBER: P387130

CATALOG NUMBER: GAW-SA2D-760-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 31°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 1978.4 | 1978.4 | 1978.4 | 1978.4  | 1978.4  | 1978.4  | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 |
| 2.5°  | 1874.9 | 1882.8 | 1891.2 | 1892.9  | 1907.0  | 1907.5  | 1927.8 | 1943.0 | 1958.2 | 1972.8 | 1977.9 |
| 5°    | 1682.5 | 1695.4 | 1710.6 | 1725.8  | 1755.6  | 1767.4  | 1816.9 | 1867.6 | 1916.0 | 1962.1 | 1984.6 |
| 7.5°  | 1477.1 | 1491.7 | 1513.1 | 1550.8  | 1584.0  | 1607.0  | 1685.3 | 1775.3 | 1865.3 | 1950.3 | 1999.2 |
| 10°   | 1289.7 | 1303.2 | 1325.7 | 1365.7  | 1416.9  | 1448.4  | 1553.6 | 1678.5 | 1810.7 | 1939.6 | 2021.2 |
| 12.5° | 1170.4 | 1177.7 | 1190.1 | 1232.9  | 1279.0  | 1314.4  | 1438.2 | 1593.0 | 1765.7 | 1939.0 | 2056.6 |
| 15°   | 1148.5 | 1150.7 | 1140.6 | 1159.7  | 1195.7  | 1230.0  | 1355.5 | 1523.8 | 1731.4 | 1948.0 | 2102.8 |
| 17.5° | 1183.3 | 1182.2 | 1148.5 | 1146.2  | 1174.9  | 1203.0  | 1315.0 | 1475.9 | 1707.2 | 1968.9 | 2162.4 |
| 20°   | 1236.2 | 1232.3 | 1173.8 | 1163.1  | 1193.5  | 1219.9  | 1312.2 | 1457.9 | 1698.2 | 2003.7 | 2235.0 |
| 22.5° | 1306.6 | 1299.8 | 1208.1 | 1196.8  | 1229.5  | 1257.1  | 1347.1 | 1475.4 | 1706.1 | 2050.5 | 2319.4 |
| 25°   | 1393.8 | 1383.7 | 1267.2 | 1254.8  | 1288.0  | 1315.6  | 1409.5 | 1525.5 | 1729.7 | 2107.3 | 2426.3 |
| 27.5° | 1492.3 | 1477.6 | 1361.7 | 1329.6  | 1367.3  | 1396.0  | 1492.8 | 1602.0 | 1766.9 | 2167.5 | 2557.4 |
| 30°   | 1585.1 | 1566.0 | 1461.3 | 1408.4  | 1454.6  | 1486.6  | 1582.9 | 1693.1 | 1826.5 | 2260.3 | 2736.9 |
| 32.5° | 1678.5 | 1657.1 | 1550.2 | 1487.2  | 1528.8  | 1563.7  | 1675.7 | 1818.6 | 1938.5 | 2402.1 | 2975.5 |
| 35°   | 1893.5 | 1871.0 | 1739.8 | 1635.7  | 1635.2  | 1654.9  | 1805.7 | 1990.2 | 2086.5 | 2599.6 | 3260.2 |
| 37.5° | 2255.3 | 2242.3 | 2117.4 | 1919.9  | 1867.0  | 1845.1  | 1982.9 | 2195.1 | 2299.2 | 2871.4 | 3581.5 |
| 40°   | 2651.4 | 2640.2 | 2500.0 | 2321.1  | 2240.6  | 2186.6  | 2237.3 | 2480.3 | 2599.6 | 3203.4 | 3909.6 |
| 42.5° | 3098.7 | 3045.3 | 2795.5 | 2742.0  | 2670.0  | 2628.9  | 2583.3 | 2832.0 | 2968.8 | 3564.7 | 4234.8 |
| 45°   | 3505.0 | 3415.0 | 3090.9 | 3009.8  | 2993.5  | 3003.7  | 3029.0 | 3304.7 | 3384.0 | 3994.0 | 4558.9 |
| 47.5° | 3747.0 | 3676.1 | 3427.4 | 3349.7  | 3345.2  | 3412.2  | 3603.5 | 3838.7 | 3797.6 | 4368.2 | 4844.2 |
| 50°   | 3977.1 | 3913.0 | 3706.5 | 3725.6  | 3746.4  | 3837.6  | 4255.6 | 4387.9 | 4175.2 | 4707.5 | 5105.9 |
| 52.5° | 4163.4 | 4065.5 | 3957.4 | 4064.9  | 4167.3  | 4314.2  | 4928.6 | 4880.8 | 4443.0 | 4977.6 | 5329.8 |
| 55°   | 4270.8 | 4226.4 | 4278.7 | 4386.8  | 4579.2  | 4817.8  | 5563.9 | 5291.0 | 4638.8 | 5224.0 | 5478.9 |
| 57.5° | 4664.7 | 4577.5 | 4681.6 | 4775.0  | 5026.0  | 5359.6  | 6108.0 | 5596.5 | 4780.1 | 5376.5 | 5513.3 |
| 60°   | 5141.3 | 5071.0 | 5132.3 | 5287.6  | 5626.4  | 6018.6  | 6616.7 | 5845.8 | 4853.8 | 5474.4 | 5424.4 |
| 62.5° | 5899.8 | 5807.0 | 5768.7 | 5942.6  | 6391.6  | 6819.8  | 7002.7 | 6018.6 | 4837.5 | 5431.1 | 5119.4 |
| 65°   | 6916.1 | 6819.8 | 6648.8 | 6806.3  | 7377.5  | 7679.6  | 7434.3 | 6055.1 | 4724.9 | 5080.5 | 4348.5 |
| 67.5° | 7957.0 | 7887.3 | 7741.0 | 8006.6  | 8522.0  | 8619.3  | 7890.6 | 5966.2 | 4362.6 | 4119.5 | 3072.3 |
| 70°   | 8644.6 | 8614.8 | 8709.9 | 9297.4  | 9757.1  | 9729.0  | 8309.3 | 5488.5 | 3400.4 | 2533.2 | 1519.8 |
| 72.5° | 8148.9 | 8291.8 | 8994.1 | 10059.3 | 10620.8 | 10391.2 | 8094.3 | 4214.6 | 1943.5 | 974.6  | 439.5  |
| 73°   | 7738.1 | 7921.0 | 8866.3 | 10087.9 | 10688.9 | 10437.4 | 7913.7 | 3868.5 | 1656.6 | 769.2  | 333.1  |
| 75°   | 5383.3 | 5607.8 | 7340.3 | 9395.3  | 10370.4 | 9944.5  | 6596.4 | 2367.8 | 767.5  | 341.0  | 134.5  |
| 77.5° | 2613.7 | 2779.7 | 4041.8 | 6788.3  | 8065.1  | 7769.7  | 4106.5 | 882.3  | 346.6  | 213.3  | 61.9   |
| 80°   | 975.7  | 1084.9 | 1754.5 | 3454.9  | 4660.8  | 4782.9  | 1806.2 | 333.7  | 230.7  | 171.6  | 31.5   |
| 82.5° | 255.5  | 284.7  | 647.1  | 1540.7  | 2388.6  | 2500.0  | 569.4  | 168.2  | 168.8  | 141.2  | 19.1   |
| 85°   | 81.6   | 93.4   | 202.0  | 691.5   | 1125.4  | 988.1   | 148.6  | 81.6   | 122.7  | 105.2  | 10.7   |
| 87.5° | 10.1   | 12.9   | 64.1   | 162.6   | 248.1   | 137.9   | 23.1   | 24.2   | 52.3   | 58.5   | 6.2    |
| 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: P387130

CATALOG NUMBER: GAW-SA2D-760-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 | 1978.4 |
| 2.5°  | 1982.9 | 1980.1 | 1980.7 | 1966.0 | 1956.5 | 1937.3 | 1917.7 | 1908.7 | 1899.1 | 1895.1 | 1899.1 |
| 5°    | 1993.1 | 1988.0 | 1973.4 | 1928.3 | 1880.5 | 1818.6 | 1760.7 | 1716.8 | 1661.6 | 1646.4 | 1662.2 |
| 7.5°  | 2008.8 | 1998.7 | 1955.9 | 1864.2 | 1757.9 | 1639.7 | 1506.9 | 1410.1 | 1330.8 | 1279.6 | 1298.1 |
| 10°   | 2031.9 | 2012.8 | 1926.7 | 1770.8 | 1580.6 | 1371.3 | 1182.8 | 1035.9 | 931.8  | 889.1  | 887.4  |
| 12.5° | 2070.7 | 2034.7 | 1890.6 | 1649.3 | 1364.0 | 1084.9 | 837.8  | 678.6  | 594.2  | 539.6  | 538.5  |
| 15°   | 2113.5 | 2060.6 | 1845.1 | 1503.5 | 1111.9 | 777.1  | 539.6  | 418.6  | 364.1  | 346.6  | 344.4  |
| 17.5° | 2165.8 | 2090.4 | 1786.0 | 1324.0 | 848.0  | 514.9  | 352.2  | 317.4  | 315.1  | 313.4  | 313.4  |
| 20°   | 2231.6 | 2125.9 | 1710.0 | 1118.6 | 601.5  | 343.8  | 299.4  | 301.6  | 302.7  | 300.5  | 301.0  |
| 22.5° | 2308.2 | 2161.9 | 1619.4 | 898.1  | 406.8  | 287.5  | 286.4  | 289.2  | 290.3  | 289.2  | 289.8  |
| 25°   | 2397.1 | 2203.5 | 1509.1 | 666.8  | 293.7  | 272.9  | 275.7  | 279.7  | 282.5  | 282.5  | 282.5  |
| 27.5° | 2507.4 | 2254.1 | 1376.3 | 465.3  | 253.8  | 257.7  | 265.6  | 272.9  | 276.8  | 278.0  | 278.0  |
| 30°   | 2650.8 | 2317.2 | 1217.1 | 319.0  | 230.7  | 237.5  | 252.1  | 266.2  | 273.5  | 274.6  | 275.2  |
| 32.5° | 2832.0 | 2388.1 | 1032.5 | 235.8  | 211.0  | 216.1  | 231.8  | 255.5  | 269.5  | 271.8  | 271.8  |
| 35°   | 3039.7 | 2470.2 | 833.9  | 205.4  | 196.9  | 198.6  | 211.0  | 238.0  | 262.8  | 269.0  | 269.5  |
| 37.5° | 3267.0 | 2551.2 | 634.2  | 191.9  | 185.1  | 185.1  | 194.1  | 217.2  | 246.5  | 265.6  | 267.8  |
| 40°   | 3479.1 | 2600.2 | 444.5  | 181.2  | 174.4  | 174.4  | 182.3  | 199.2  | 226.8  | 255.5  | 261.7  |
| 42.5° | 3674.9 | 2617.1 | 309.5  | 171.1  | 164.3  | 166.0  | 172.7  | 186.3  | 207.1  | 235.8  | 241.4  |
| 45°   | 3876.4 | 2614.3 | 225.6  | 159.2  | 154.2  | 159.2  | 164.3  | 174.4  | 189.6  | 205.9  | 207.1  |
| 47.5° | 4028.3 | 2590.6 | 178.9  | 148.0  | 144.6  | 151.4  | 155.9  | 162.6  | 171.1  | 169.9  | 169.9  |
| 50°   | 4170.7 | 2533.2 | 144.0  | 132.8  | 135.0  | 142.9  | 145.2  | 147.4  | 148.0  | 137.3  | 136.2  |
| 52.5° | 4278.7 | 2443.8 | 115.4  | 116.5  | 125.5  | 133.4  | 131.1  | 127.7  | 122.1  | 109.2  | 106.9  |
| 55°   | 4314.7 | 2271.6 | 90.6   | 96.2   | 111.4  | 121.5  | 113.1  | 105.8  | 95.1   | 84.4   | 82.2   |
| 57.5° | 4249.5 | 2049.3 | 73.7   | 74.8   | 94.0   | 102.4  | 92.8   | 84.4   | 72.6   | 63.6   | 61.9   |
| 60°   | 4111.0 | 1802.3 | 60.8   | 56.3   | 72.6   | 79.9   | 73.7   | 65.3   | 54.6   | 47.8   | 47.3   |
| 62.5° | 3836.4 | 1539.0 | 50.1   | 43.9   | 55.1   | 61.3   | 57.4   | 51.2   | 42.2   | 37.7   | 37.1   |
| 65°   | 3259.1 | 1231.2 | 40.5   | 35.4   | 42.8   | 47.8   | 44.5   | 40.0   | 33.2   | 29.8   | 29.3   |
| 67.5° | 2275.0 | 832.2  | 33.2   | 29.3   | 33.8   | 37.7   | 34.9   | 32.6   | 26.4   | 25.9   | 26.4   |
| 70°   | 1097.3 | 401.2  | 27.6   | 23.6   | 26.4   | 29.3   | 28.1   | 26.4   | 25.3   | 29.3   | 33.8   |
| 72.5° | 314.5  | 134.5  | 21.9   | 19.7   | 21.4   | 23.1   | 24.2   | 23.6   | 27.6   | 35.4   | 41.1   |
| 73°   | 242.0  | 108.6  | 20.8   | 18.6   | 20.3   | 22.5   | 23.6   | 23.1   | 28.1   | 36.0   | 41.1   |
| 75°   | 103.5  | 52.3   | 15.8   | 15.2   | 16.9   | 19.7   | 20.8   | 20.8   | 28.1   | 36.6   | 39.4   |
| 77.5° | 46.7   | 28.1   | 10.1   | 11.8   | 14.6   | 15.8   | 17.4   | 17.4   | 22.5   | 28.1   | 28.1   |
| 80°   | 26.4   | 15.2   | 7.9    | 9.0    | 10.7   | 10.7   | 10.7   | 9.6    | 10.1   | 11.3   | 12.4   |
| 82.5° | 16.9   | 10.1   | 6.2    | 7.3    | 6.8    | 5.6    | 4.5    | 4.5    | 3.9    | 4.5    | 5.6    |
| 85°   | 9.6    | 5.6    | 5.6    | 4.5    | 2.8    | 2.3    | 2.8    | 2.3    | 0.6    | 0.0    | 0.6    |
| 87.5° | 5.6    | 3.4    | 1.7    | 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)