

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: P386306

Luminaire Tested: GAW-SA2A-722-U-SLL-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-722-U-SLL-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5300 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

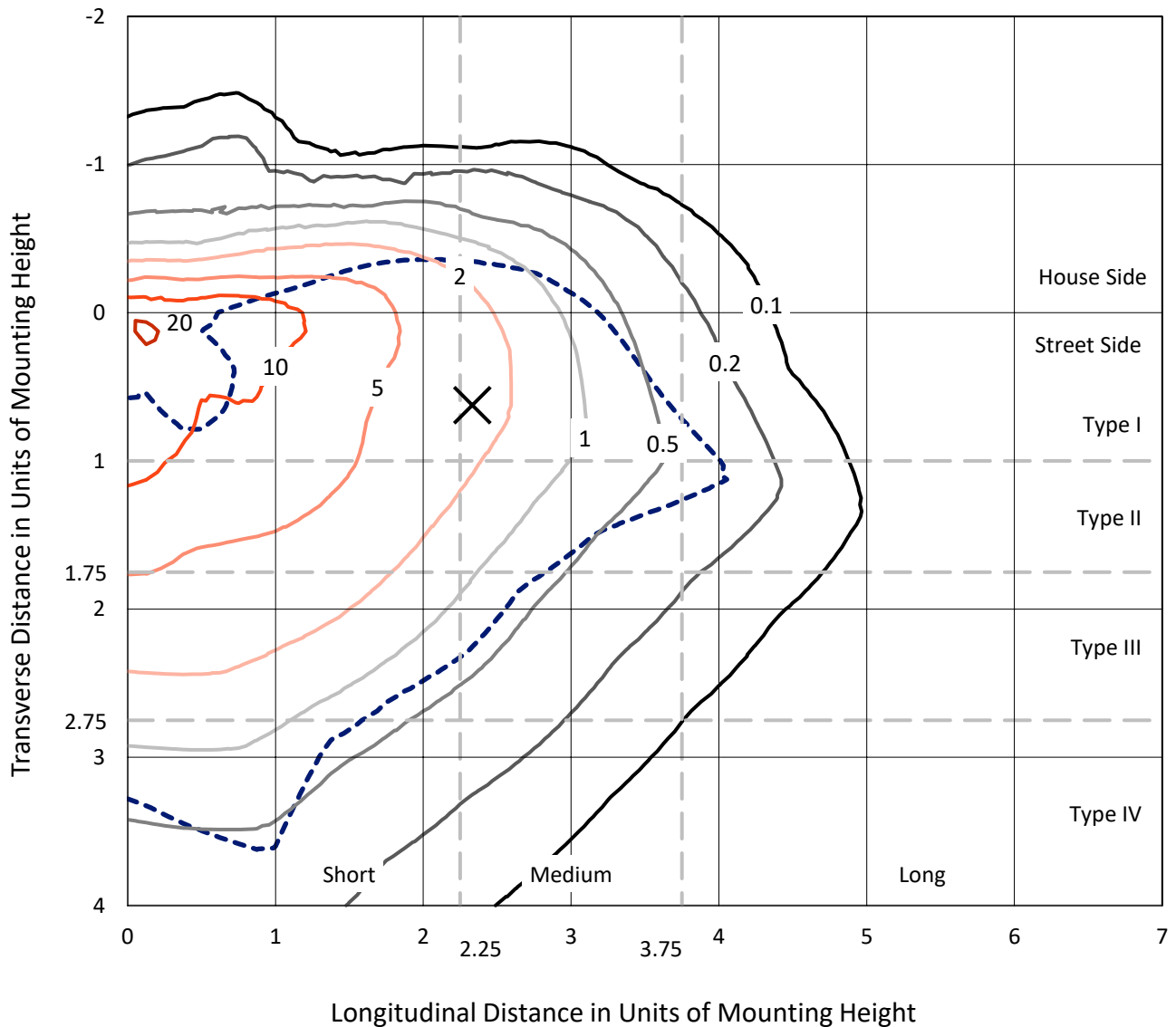
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

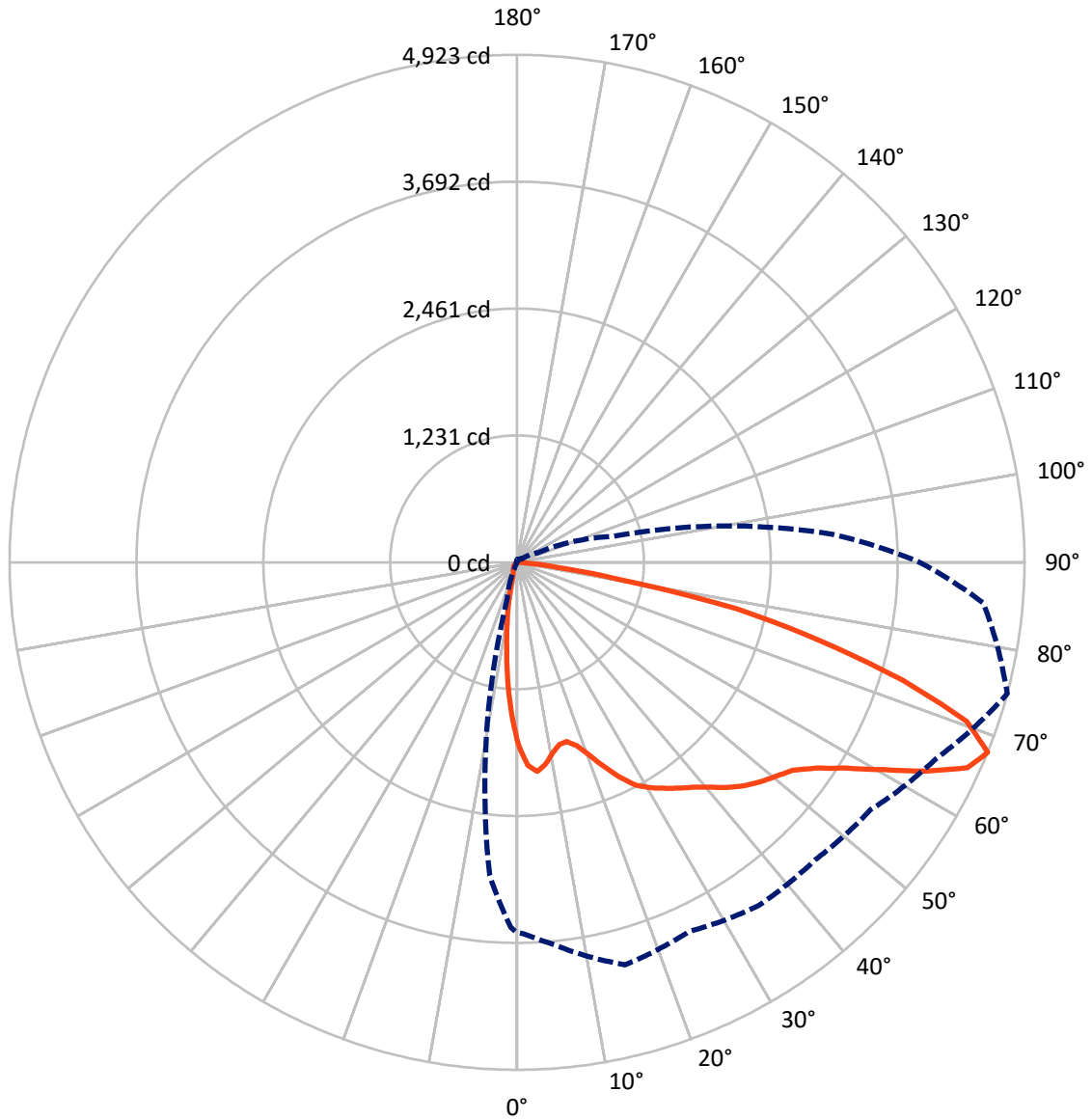
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 795.3 | 0.0 | 795.3 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 4504.7 | 0.0 | 4504.7 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 5300.0 | 0.0 | 5300.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.9 | 2.5 |
| 10°-20° | 265.6 | 5.0 |
| 20°-30° | 375.7 | 7.1 |
| 30°-40° | 552.4 | 10.4 |
| 40°-50° | 794.0 | 15.0 |
| 50°-60° | 1117.7 | 21.1 |
| 60°-70° | 1305.4 | 24.6 |
| 70°-80° | 666.0 | 12.6 |
| 80°-90° | 88.5 | 1.7 |
| 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° | 5300.0 | 100.0 |
| 0°-180° | 5300.0 | 100.0 |

Coefficient of Utilization

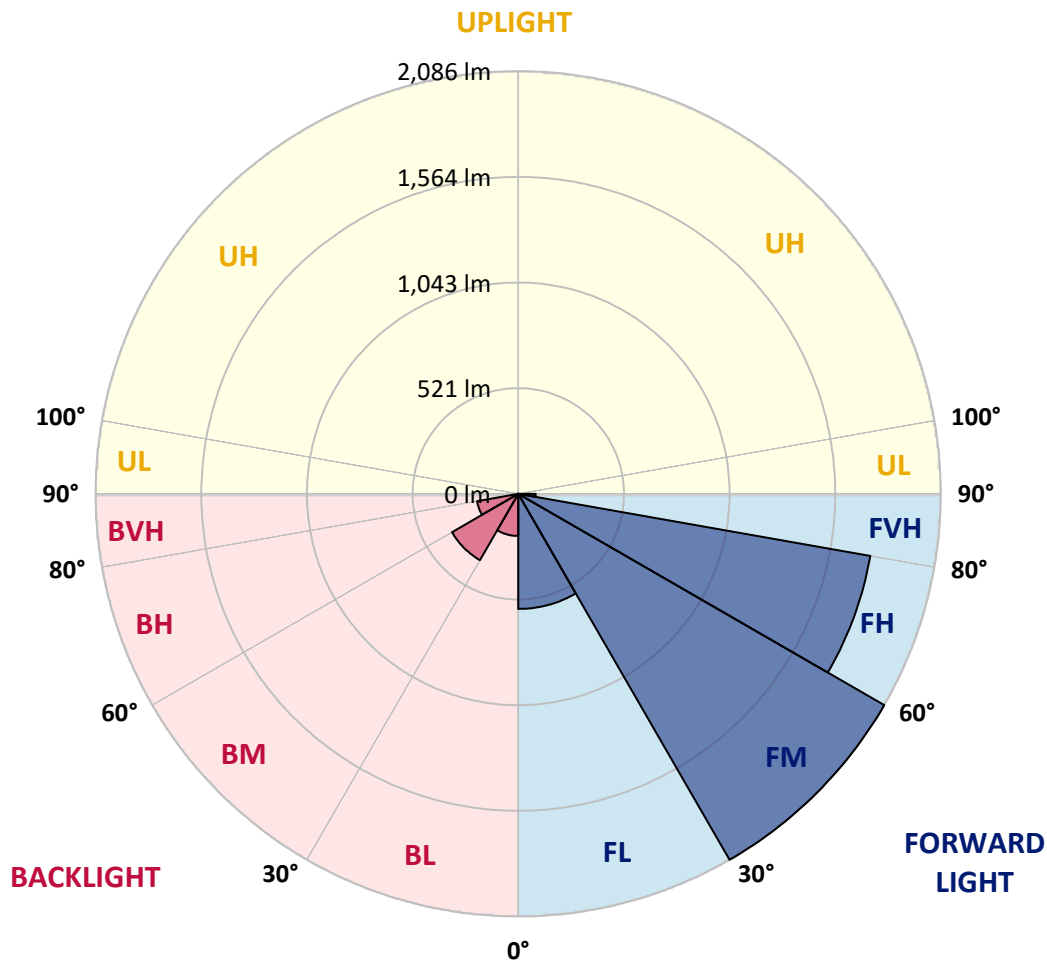


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 568.2 | 10.7 | | | |
| FM (30°-60°) | 2086.0 | 39.4 | | | |
| FH (60°-80°) | 1764.8 | 33.3 | | | G1/1800 |
| FVH (80°-90°) | 85.8 | 1.6 | | | G1/100 |
| BL (0°-30°) | 208.0 | 3.9 | B1/500 | | |
| BM (30°-60°) | 378.1 | 7.1 | B1/1000 | | |
| BH (60°-80°) | 206.6 | 3.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 |
| 2.5° | 1927.4 | 1930.5 | 1946.0 | 1982.2 | 2021.6 | 2024.6 | 2051.2 | 2023.9 | 2014.6 | 1970.4 | 1924.7 |
| 5° | 1942.0 | 1953.6 | 2007.0 | 2113.2 | 2205.4 | 2235.0 | 2256.1 | 2202.4 | 2145.9 | 2037.9 | 1922.7 |
| 7.5° | 1824.8 | 1844.1 | 1928.2 | 2127.5 | 2292.2 | 2365.1 | 2378.9 | 2294.8 | 2156.4 | 1978.7 | 1805.4 |
| 10° | 1674.6 | 1696.7 | 1798.1 | 2043.2 | 2269.4 | 2394.2 | 2413.3 | 2303.0 | 2104.2 | 1882.8 | 1678.6 |
| 12.5° | 1553.1 | 1579.0 | 1682.7 | 1948.3 | 2190.8 | 2328.9 | 2366.6 | 2275.2 | 2059.0 | 1814.7 | 1592.0 |
| 15° | 1497.1 | 1526.7 | 1635.7 | 1887.0 | 2103.7 | 2212.4 | 2243.5 | 2204.1 | 2033.9 | 1803.9 | 1571.9 |
| 17.5° | 1529.3 | 1561.4 | 1673.9 | 1892.3 | 2021.8 | 2068.3 | 2093.4 | 2109.5 | 2033.9 | 1868.9 | 1630.7 |
| 20° | 1661.1 | 1695.7 | 1814.7 | 1945.8 | 1954.1 | 1936.7 | 1963.6 | 2020.1 | 2057.5 | 1992.5 | 1771.8 |
| 22.5° | 1843.3 | 1884.0 | 2018.3 | 2037.4 | 1920.9 | 1855.4 | 1858.9 | 1947.5 | 2100.4 | 2149.1 | 1967.6 |
| 25° | 2065.5 | 2115.2 | 2251.8 | 2174.0 | 1934.7 | 1806.9 | 1805.7 | 1887.8 | 2142.4 | 2306.1 | 2185.8 |
| 27.5° | 2286.2 | 2341.0 | 2461.0 | 2340.7 | 1991.7 | 1798.1 | 1795.6 | 1869.7 | 2183.3 | 2445.6 | 2424.1 |
| 30° | 2471.3 | 2524.5 | 2627.9 | 2461.5 | 2053.2 | 1818.7 | 1806.7 | 1889.0 | 2207.6 | 2536.3 | 2597.8 |
| 32.5° | 2621.9 | 2664.6 | 2748.2 | 2544.6 | 2119.0 | 1858.7 | 1832.5 | 1940.8 | 2249.1 | 2612.9 | 2757.5 |
| 35° | 2787.6 | 2832.5 | 2865.9 | 2623.7 | 2192.8 | 1916.1 | 1878.7 | 2022.9 | 2312.8 | 2690.7 | 2932.5 |
| 37.5° | 2976.7 | 3021.3 | 3017.3 | 2696.0 | 2286.5 | 2011.3 | 1987.4 | 2152.9 | 2412.0 | 2767.8 | 3127.8 |
| 40° | 3161.7 | 3207.4 | 3174.7 | 2775.0 | 2396.4 | 2168.2 | 2150.6 | 2348.2 | 2544.8 | 2866.4 | 3356.8 |
| 42.5° | 3334.9 | 3384.4 | 3314.6 | 2849.9 | 2527.5 | 2366.1 | 2396.2 | 2599.8 | 2711.0 | 2988.0 | 3554.1 |
| 45° | 3474.5 | 3525.0 | 3431.8 | 2922.7 | 2665.6 | 2606.1 | 2696.7 | 2878.5 | 2910.9 | 3090.6 | 3687.4 |
| 47.5° | 3576.0 | 3623.7 | 3513.2 | 2995.5 | 2842.3 | 2899.6 | 3057.5 | 3170.7 | 3091.4 | 3179.8 | 3782.1 |
| 50° | 3640.7 | 3677.9 | 3537.0 | 3086.6 | 3074.3 | 3242.0 | 3433.3 | 3488.6 | 3261.4 | 3260.1 | 3897.1 |
| 52.5° | 3681.9 | 3698.7 | 3554.6 | 3181.8 | 3316.3 | 3614.9 | 3801.4 | 3818.7 | 3436.4 | 3348.5 | 4052.0 |
| 55° | 3823.8 | 3837.3 | 3679.1 | 3297.0 | 3516.5 | 3941.5 | 4134.3 | 4118.3 | 3634.5 | 3521.5 | 4234.8 |
| 57.5° | 4065.8 | 4080.1 | 3936.5 | 3462.7 | 3678.4 | 4143.4 | 4375.6 | 4404.5 | 3866.7 | 3764.5 | 4430.6 |
| 60° | 4187.3 | 4213.9 | 4162.7 | 3672.6 | 3835.3 | 4272.4 | 4540.1 | 4632.2 | 4156.9 | 4084.9 | 4620.4 |
| 62.5° | 4077.1 | 4115.7 | 4190.1 | 3905.4 | 3991.2 | 4343.5 | 4591.3 | 4713.8 | 4454.2 | 4458.2 | 4737.4 |
| 65° | 3857.1 | 3888.0 | 4014.1 | 4032.9 | 4081.6 | 4334.7 | 4464.7 | 4599.8 | 4636.2 | 4801.2 | 4731.1 |
| 67.5° | 3591.5 | 3603.1 | 3710.0 | 4042.9 | 3950.5 | 4070.6 | 4084.6 | 4184.5 | 4492.3 | 4922.7 | 4541.1 |
| 70° | 3209.1 | 3215.4 | 3308.8 | 3706.8 | 3394.9 | 3421.3 | 3400.5 | 3420.8 | 3862.2 | 4626.7 | 4061.3 |
| 72.5° | 2582.7 | 2598.5 | 2731.4 | 3078.3 | 2473.3 | 2397.2 | 2560.9 | 2551.8 | 2974.4 | 3908.9 | 3016.3 |
| 75° | 1901.6 | 1929.0 | 2129.6 | 2479.5 | 1735.9 | 1570.2 | 1689.7 | 1721.6 | 2114.5 | 3023.6 | 1886.3 |
| 77.5° | 1331.4 | 1351.7 | 1546.1 | 1822.7 | 1256.3 | 1122.8 | 1079.6 | 1117.5 | 1395.7 | 2187.3 | 950.3 |
| 80° | 767.0 | 774.5 | 898.6 | 1052.5 | 846.6 | 968.6 | 877.5 | 903.6 | 836.3 | 973.1 | 408.7 |
| 82.5° | 501.9 | 503.1 | 551.6 | 626.4 | 527.2 | 612.6 | 453.4 | 579.7 | 514.4 | 390.9 | 133.1 |
| 85° | 271.2 | 272.7 | 319.9 | 444.6 | 298.5 | 168.7 | 99.2 | 203.6 | 318.1 | 89.6 | 36.4 |
| 87.5° | 29.9 | 27.4 | 96.4 | 161.7 | 82.9 | 15.3 | 5.3 | 22.8 | 51.0 | 5.8 | 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 |



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CATALOG NUMBER: GAW-SA2A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 |
| 2.5° | 1901.3 | 1880.5 | 1828.5 | 1773.5 | 1729.4 | 1687.9 | 1646.2 | 1595.3 | 1555.9 | 1547.8 | 1534.8 |
| 5° | 1860.7 | 1794.6 | 1685.7 | 1576.2 | 1488.1 | 1376.9 | 1306.3 | 1251.3 | 1197.6 | 1194.3 | 1183.5 |
| 7.5° | 1718.6 | 1631.7 | 1478.3 | 1326.9 | 1202.9 | 1096.9 | 990.0 | 918.4 | 862.2 | 842.3 | 830.5 |
| 10° | 1582.0 | 1484.3 | 1292.7 | 1120.0 | 1009.3 | 915.6 | 840.3 | 765.5 | 697.7 | 651.0 | 629.9 |
| 12.5° | 1486.6 | 1378.6 | 1167.5 | 1018.6 | 939.2 | 850.4 | 758.5 | 665.1 | 587.0 | 530.8 | 496.4 |
| 15° | 1449.7 | 1334.4 | 1125.5 | 978.4 | 880.5 | 768.0 | 650.5 | 543.8 | 457.2 | 406.2 | 375.3 |
| 17.5° | 1493.6 | 1359.5 | 1122.3 | 929.5 | 792.6 | 652.8 | 523.0 | 396.9 | 315.3 | 276.7 | 256.8 |
| 20° | 1605.1 | 1439.4 | 1121.0 | 869.4 | 688.2 | 516.2 | 354.3 | 261.1 | 211.6 | 190.1 | 180.8 |
| 22.5° | 1762.7 | 1541.3 | 1131.1 | 810.2 | 579.5 | 368.8 | 244.5 | 191.8 | 166.5 | 154.9 | 149.6 |
| 25° | 1965.6 | 1684.4 | 1159.4 | 756.5 | 477.3 | 275.2 | 190.6 | 160.7 | 142.9 | 133.8 | 130.1 |
| 27.5° | 2181.8 | 1849.1 | 1203.6 | 709.8 | 394.2 | 219.4 | 163.2 | 137.6 | 124.8 | 118.5 | 115.0 |
| 30° | 2360.0 | 2039.9 | 1248.3 | 657.8 | 333.9 | 191.3 | 149.4 | 125.5 | 110.7 | 106.7 | 103.4 |
| 32.5° | 2515.9 | 2184.3 | 1279.9 | 610.8 | 294.5 | 170.0 | 135.1 | 112.2 | 102.2 | 94.4 | 90.9 |
| 35° | 2677.4 | 2304.5 | 1278.9 | 578.0 | 267.4 | 153.9 | 123.0 | 100.4 | 88.4 | 79.3 | 76.6 |
| 37.5° | 2852.1 | 2440.4 | 1257.1 | 549.8 | 255.6 | 141.1 | 116.2 | 94.2 | 82.1 | 73.1 | 69.5 |
| 40° | 3056.7 | 2583.0 | 1234.7 | 523.5 | 252.3 | 130.8 | 111.5 | 89.1 | 76.3 | 67.5 | 64.0 |
| 42.5° | 3256.1 | 2711.5 | 1215.2 | 503.9 | 238.3 | 130.6 | 107.2 | 85.4 | 71.8 | 63.3 | 59.3 |
| 45° | 3415.5 | 2831.3 | 1211.4 | 492.1 | 223.4 | 135.1 | 104.9 | 82.9 | 68.3 | 59.8 | 56.0 |
| 47.5° | 3548.1 | 2961.3 | 1235.5 | 483.8 | 209.4 | 123.3 | 110.5 | 81.1 | 65.0 | 56.7 | 52.5 |
| 50° | 3705.8 | 3121.0 | 1292.2 | 470.2 | 194.6 | 111.0 | 126.5 | 81.6 | 62.3 | 53.7 | 49.2 |
| 52.5° | 3925.7 | 3342.0 | 1375.6 | 447.4 | 174.2 | 99.7 | 124.5 | 82.1 | 59.3 | 50.5 | 45.9 |
| 55° | 4172.2 | 3617.9 | 1465.2 | 409.5 | 145.9 | 84.9 | 106.7 | 78.6 | 53.5 | 46.9 | 42.7 |
| 57.5° | 4431.3 | 3868.2 | 1518.5 | 364.3 | 116.0 | 73.3 | 85.4 | 71.6 | 47.2 | 42.2 | 39.4 |
| 60° | 4472.0 | 3963.4 | 1494.1 | 308.8 | 92.1 | 63.8 | 63.3 | 72.8 | 42.2 | 37.2 | 35.1 |
| 62.5° | 4370.8 | 3843.8 | 1376.4 | 259.4 | 77.1 | 56.0 | 52.0 | 63.5 | 38.2 | 33.1 | 31.1 |
| 65° | 4176.3 | 3520.7 | 1185.5 | 233.7 | 71.6 | 48.0 | 43.2 | 44.7 | 33.4 | 28.9 | 27.1 |
| 67.5° | 3905.6 | 3089.4 | 973.4 | 219.2 | 70.8 | 41.2 | 36.9 | 33.9 | 28.9 | 25.1 | 23.6 |
| 70° | 3352.3 | 2573.7 | 776.6 | 211.1 | 68.8 | 34.6 | 31.1 | 27.6 | 24.1 | 21.3 | 20.1 |
| 72.5° | 2467.2 | 1823.8 | 604.1 | 202.4 | 69.3 | 27.6 | 27.1 | 22.8 | 19.3 | 16.6 | 16.1 |
| 75° | 1425.6 | 1041.9 | 396.2 | 163.9 | 66.0 | 21.3 | 22.6 | 16.1 | 13.6 | 11.5 | 11.5 |
| 77.5° | 759.7 | 635.5 | 150.9 | 68.3 | 24.1 | 13.6 | 12.8 | 9.5 | 8.5 | 7.0 | 6.8 |
| 80° | 331.2 | 279.7 | 45.4 | 19.1 | 13.3 | 7.3 | 4.8 | 4.3 | 3.8 | 3.0 | 2.8 |
| 82.5° | 117.2 | 101.2 | 14.8 | 9.3 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 26.6 | 19.1 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GAW-SA2A-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 | 1778.1 |
| 2.5° | 1508.2 | 1502.6 | 1470.0 | 1471.3 | 1477.0 | 1485.3 | 1465.7 | 1474.8 | 1499.1 | 1522.5 | 1531.3 |
| 5° | 1166.2 | 1167.5 | 1147.6 | 1159.9 | 1171.0 | 1178.5 | 1146.9 | 1147.4 | 1166.7 | 1193.1 | 1206.9 |
| 7.5° | 821.7 | 819.7 | 820.7 | 850.1 | 871.0 | 855.9 | 867.7 | 826.8 | 829.3 | 848.1 | 834.0 |
| 10° | 610.8 | 583.2 | 567.7 | 589.8 | 612.6 | 604.3 | 584.0 | 570.7 | 580.0 | 600.8 | 599.3 |
| 12.5° | 480.0 | 440.4 | 417.0 | 401.2 | 420.0 | 404.5 | 404.0 | 392.4 | 379.9 | 382.1 | 415.5 |
| 15° | 361.0 | 332.2 | 304.5 | 279.2 | 278.7 | 273.4 | 246.5 | 216.4 | 213.9 | 215.4 | 232.7 |
| 17.5° | 248.3 | 238.5 | 227.2 | 205.4 | 199.6 | 177.5 | 151.4 | 139.3 | 133.3 | 136.1 | 141.9 |
| 20° | 174.5 | 170.7 | 172.0 | 160.2 | 151.9 | 130.8 | 115.5 | 110.7 | 109.7 | 112.5 | 115.2 |
| 22.5° | 144.6 | 137.8 | 137.1 | 131.8 | 123.5 | 108.2 | 99.9 | 97.2 | 95.9 | 98.4 | 100.4 |
| 25° | 126.5 | 119.8 | 117.0 | 113.7 | 104.9 | 94.4 | 89.4 | 86.9 | 85.6 | 87.1 | 88.4 |
| 27.5° | 111.5 | 105.2 | 102.7 | 100.4 | 91.9 | 84.4 | 80.3 | 78.1 | 77.1 | 77.6 | 78.8 |
| 30° | 100.2 | 94.7 | 91.4 | 88.6 | 81.3 | 76.1 | 72.6 | 70.3 | 69.3 | 69.3 | 70.5 |
| 32.5° | 88.4 | 85.4 | 82.4 | 78.8 | 72.1 | 68.5 | 65.0 | 62.5 | 61.5 | 61.8 | 62.8 |
| 35° | 73.6 | 72.6 | 73.3 | 70.0 | 64.3 | 61.3 | 57.7 | 55.0 | 54.2 | 54.5 | 55.5 |
| 37.5° | 65.3 | 60.8 | 63.5 | 61.8 | 58.5 | 54.5 | 50.0 | 47.5 | 46.2 | 46.9 | 47.5 |
| 40° | 60.0 | 54.5 | 52.5 | 54.2 | 53.7 | 47.2 | 43.2 | 40.7 | 39.7 | 39.9 | 40.4 |
| 42.5° | 55.5 | 49.0 | 44.4 | 44.2 | 47.2 | 41.2 | 36.9 | 34.6 | 33.4 | 33.4 | 33.9 |
| 45° | 51.2 | 44.2 | 38.7 | 34.4 | 39.7 | 34.9 | 30.9 | 28.9 | 27.4 | 27.4 | 27.6 |
| 47.5° | 48.0 | 40.2 | 33.6 | 28.1 | 29.9 | 28.6 | 25.4 | 23.3 | 21.8 | 21.8 | 22.1 |
| 50° | 44.9 | 36.2 | 29.1 | 23.6 | 22.3 | 23.6 | 20.6 | 18.3 | 17.3 | 17.1 | 17.6 |
| 52.5° | 41.7 | 32.1 | 24.9 | 20.1 | 17.6 | 17.8 | 16.1 | 14.6 | 13.3 | 13.3 | 13.8 |
| 55° | 38.4 | 28.9 | 21.6 | 17.1 | 14.6 | 13.3 | 12.8 | 11.8 | 10.8 | 10.8 | 11.3 |
| 57.5° | 35.1 | 25.4 | 18.3 | 14.1 | 11.5 | 10.5 | 10.5 | 9.8 | 9.0 | 9.0 | 9.5 |
| 60° | 32.1 | 21.8 | 15.1 | 11.5 | 9.0 | 8.8 | 9.0 | 8.3 | 7.8 | 7.8 | 8.3 |
| 62.5° | 28.6 | 18.6 | 12.3 | 9.5 | 7.3 | 7.0 | 7.8 | 7.3 | 6.8 | 6.8 | 7.3 |
| 65° | 24.4 | 15.8 | 9.8 | 7.3 | 5.5 | 5.5 | 6.5 | 6.0 | 5.5 | 5.5 | 6.0 |
| 67.5° | 20.6 | 13.3 | 7.5 | 5.3 | 4.0 | 4.3 | 5.5 | 5.0 | 4.8 | 4.8 | 5.3 |
| 70° | 17.1 | 10.3 | 5.3 | 3.3 | 2.3 | 3.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.8 |
| 72.5° | 12.8 | 7.0 | 3.0 | 1.3 | 1.0 | 2.3 | 3.5 | 4.0 | 3.8 | 3.8 | 4.5 |
| 75° | 8.3 | 4.0 | 1.0 | 0.0 | 0.0 | 1.3 | 2.8 | 3.3 | 3.3 | 3.0 | 3.8 |
| 77.5° | 4.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.5 | 1.3 | 1.0 | 1.8 |
| 80° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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| 2.5° | 1566.7 | 1596.3 | 1638.0 | 1682.2 | 1750.2 | 1804.2 | 1857.1 | 1902.6 | 1920.2 | 1927.4 |
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| 27.5° | 83.6 | 92.4 | 106.0 | 125.5 | 192.3 | 547.3 | 1187.8 | 1967.9 | 2243.0 | 2286.2 |
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| 32.5° | 66.5 | 74.1 | 85.1 | 95.4 | 121.5 | 315.1 | 1226.5 | 2292.7 | 2575.7 | 2621.9 |
| 35° | 58.7 | 65.5 | 75.6 | 83.6 | 100.7 | 248.8 | 1168.0 | 2417.3 | 2726.6 | 2787.6 |
| 37.5° | 51.2 | 57.7 | 66.5 | 72.6 | 88.6 | 202.9 | 1078.6 | 2556.1 | 2920.2 | 2976.7 |
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| 45° | 31.4 | 37.2 | 45.9 | 63.3 | 61.0 | 87.1 | 764.2 | 2929.0 | 3415.5 | 3474.5 |
| 47.5° | 25.4 | 31.9 | 43.9 | 60.3 | 48.7 | 64.0 | 675.4 | 3014.8 | 3517.7 | 3576.0 |
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| 57.5° | 12.1 | 14.3 | 19.6 | 22.1 | 23.9 | 30.6 | 683.7 | 3651.5 | 4055.5 | 4065.8 |
| 60° | 10.3 | 12.6 | 16.3 | 17.8 | 20.6 | 27.4 | 658.8 | 3741.2 | 4153.2 | 4187.3 |
| 62.5° | 9.0 | 11.0 | 13.6 | 14.8 | 17.3 | 24.6 | 600.6 | 3611.4 | 4019.1 | 4077.1 |
| 65° | 8.0 | 10.0 | 11.3 | 12.6 | 15.3 | 22.1 | 504.6 | 3351.7 | 3796.6 | 3857.1 |
| 67.5° | 7.0 | 8.8 | 10.0 | 11.3 | 13.8 | 19.6 | 371.6 | 3050.2 | 3541.3 | 3591.5 |
| 70° | 6.3 | 7.8 | 9.0 | 10.0 | 12.1 | 16.6 | 225.5 | 2588.3 | 3188.3 | 3209.1 |
| 72.5° | 6.0 | 7.0 | 8.3 | 9.0 | 10.5 | 14.6 | 114.2 | 1902.1 | 2548.8 | 2582.7 |
| 75° | 5.3 | 6.3 | 7.5 | 8.0 | 9.3 | 12.6 | 46.4 | 1249.3 | 1847.1 | 1901.6 |
| 77.5° | 4.3 | 5.8 | 6.8 | 7.3 | 8.0 | 10.3 | 23.6 | 798.4 | 1296.3 | 1331.4 |
| 80° | 1.5 | 4.3 | 5.8 | 6.0 | 6.8 | 7.5 | 15.6 | 437.1 | 751.9 | 767.0 |
| 82.5° | 0.0 | 2.8 | 4.5 | 4.3 | 4.8 | 5.8 | 10.0 | 207.9 | 496.4 | 501.9 |
| 85° | 0.0 | 1.3 | 3.5 | 2.8 | 2.0 | 4.0 | 3.5 | 45.4 | 260.4 | 271.2 |
| 87.5° | 0.0 | 0.0 | 0.3 | 1.3 | 1.0 | 1.5 | 0.5 | 0.3 | 23.6 | 29.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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