

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: P386623

Luminaire Tested: GAW-SA2B-735-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11206 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

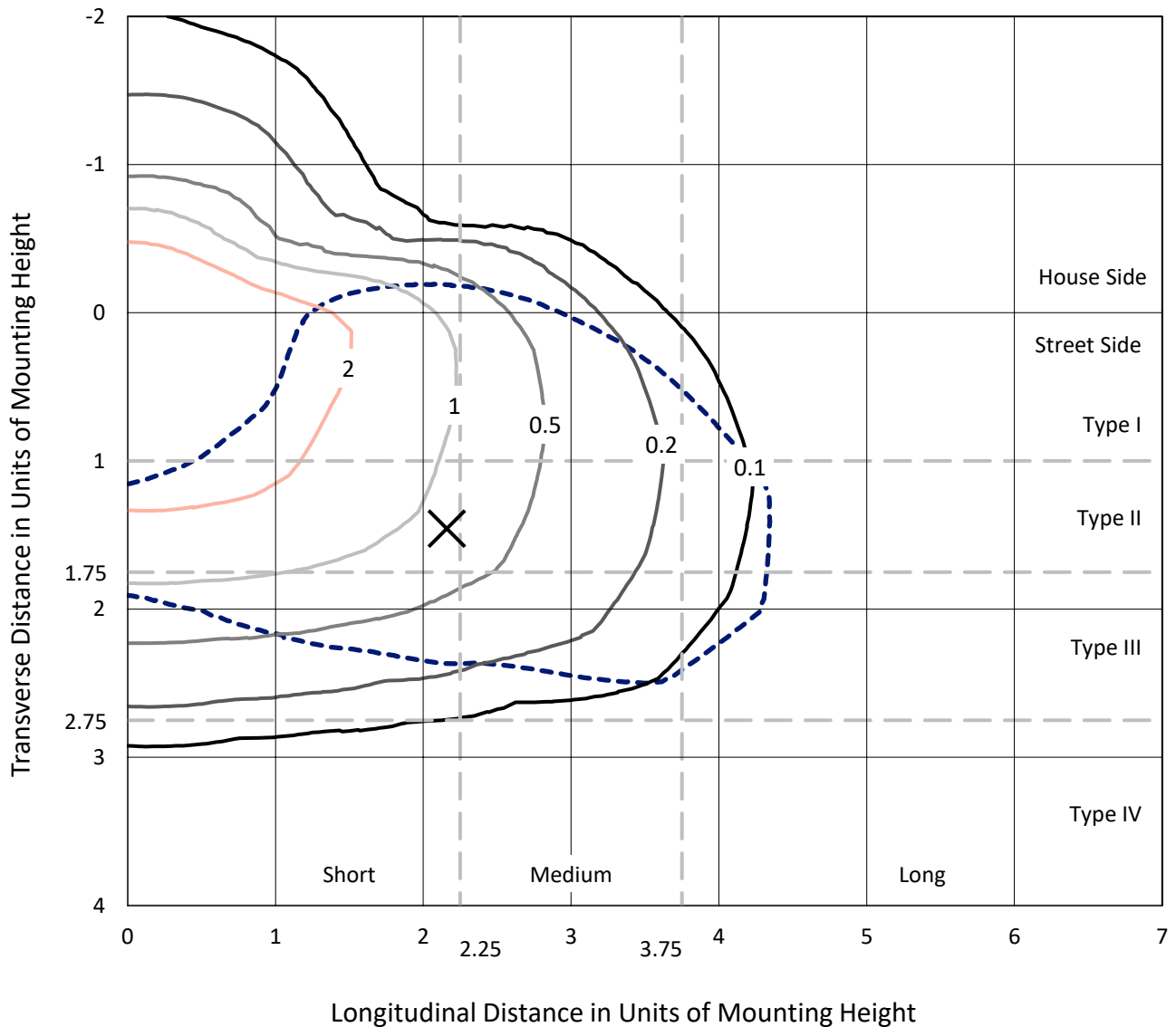
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

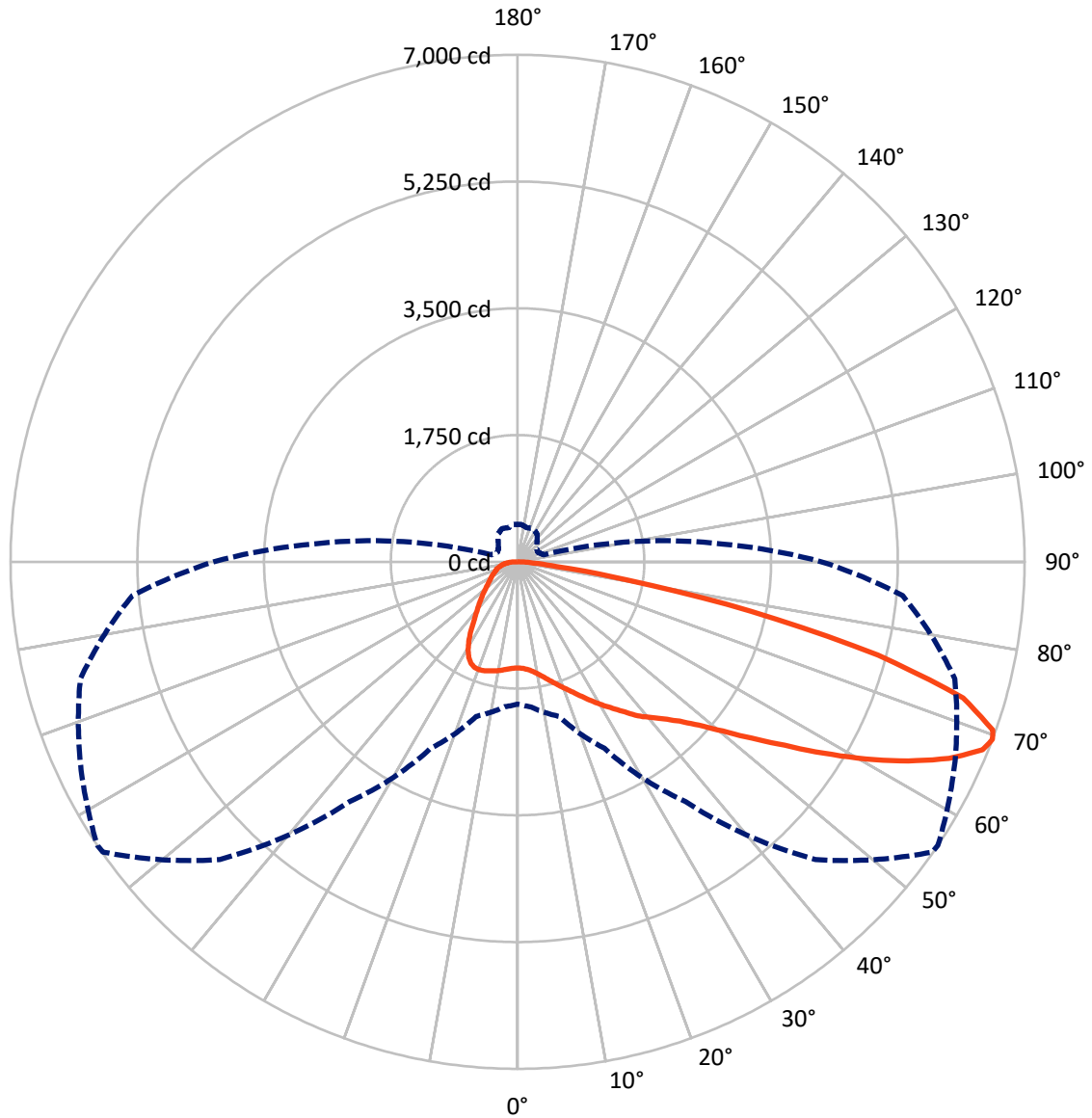
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2495.6 | 0.0 | 2495.6 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 8710.5 | 0.0 | 8710.5 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 11206.0 | 0.0 | 11206.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 143.9 | 1.3 |
| 10°-20° | 462.7 | 4.1 |
| 20°-30° | 807.7 | 7.2 |
| 30°-40° | 1160.2 | 10.4 |
| 40°-50° | 1605.7 | 14.3 |
| 50°-60° | 2352.5 | 21.0 |
| 60°-70° | 2868.1 | 25.6 |
| 70°-80° | 1585.7 | 14.2 |
| 80°-90° | 219.6 | 2.0 |
| 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° | 11206.0 | 100.0 |
| 0°-180° | 11206.0 | 100.0 |

Coefficient of Utilization

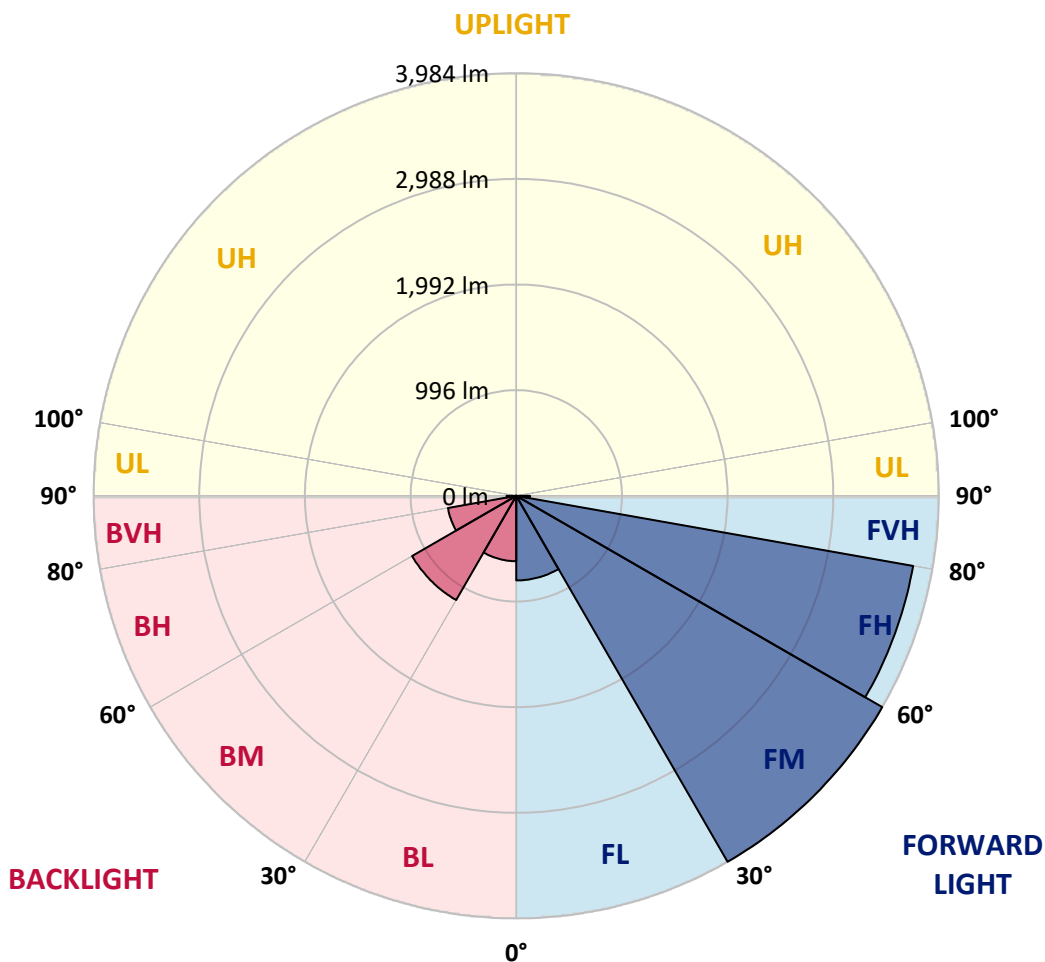


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 797.5 | 7.1 | | | |
| FM (30°-60°) | 3984.2 | 35.6 | | | |
| FH (60°-80°) | 3799.4 | 33.9 | | | G2/5000 |
| FVH (80°-90°) | 129.4 | 1.2 | | | G2/225 |
| BL (0°-30°) | 616.7 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 1134.2 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 654.4 | 5.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 90.3 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 |
| 2.5° | 1474.3 | 1475.8 | 1474.7 | 1477.8 | 1474.3 | 1476.6 | 1474.7 | 1474.7 | 1473.5 | 1470.1 | 1466.2 |
| 5° | 1497.5 | 1500.5 | 1498.6 | 1501.7 | 1497.5 | 1498.2 | 1494.8 | 1494.8 | 1491.3 | 1484.0 | 1476.3 |
| 7.5° | 1533.7 | 1537.2 | 1535.6 | 1538.7 | 1533.0 | 1533.0 | 1528.3 | 1527.9 | 1521.0 | 1509.0 | 1500.1 |
| 10° | 1577.0 | 1581.6 | 1580.1 | 1584.7 | 1580.1 | 1581.6 | 1577.0 | 1577.0 | 1567.7 | 1550.8 | 1539.5 |
| 12.5° | 1639.9 | 1645.7 | 1641.4 | 1641.0 | 1639.1 | 1642.2 | 1638.4 | 1637.6 | 1629.1 | 1605.9 | 1590.5 |
| 15° | 1724.1 | 1730.3 | 1721.3 | 1720.6 | 1709.8 | 1708.6 | 1708.6 | 1707.4 | 1702.1 | 1674.3 | 1648.7 |
| 17.5° | 1820.9 | 1822.9 | 1815.2 | 1802.8 | 1788.9 | 1780.1 | 1778.8 | 1781.9 | 1781.9 | 1749.5 | 1709.0 |
| 20° | 1915.9 | 1919.4 | 1913.2 | 1899.4 | 1881.5 | 1868.5 | 1859.2 | 1865.4 | 1865.0 | 1826.4 | 1768.9 |
| 22.5° | 2019.4 | 2027.5 | 2018.2 | 2000.4 | 1979.6 | 1964.9 | 1948.8 | 1954.1 | 1954.5 | 1907.1 | 1827.5 |
| 25° | 2153.4 | 2146.0 | 2140.2 | 2115.1 | 2085.4 | 2070.3 | 2055.3 | 2060.7 | 2059.2 | 1993.9 | 1888.1 |
| 27.5° | 2271.8 | 2273.4 | 2265.6 | 2239.0 | 2204.7 | 2171.5 | 2170.7 | 2174.1 | 2168.4 | 2084.2 | 1945.3 |
| 30° | 2409.6 | 2410.4 | 2399.6 | 2375.7 | 2338.2 | 2295.4 | 2285.4 | 2291.2 | 2278.8 | 2169.9 | 2005.5 |
| 32.5° | 2546.7 | 2550.5 | 2538.6 | 2509.7 | 2479.5 | 2427.4 | 2407.4 | 2411.2 | 2380.3 | 2257.6 | 2067.6 |
| 35° | 2666.8 | 2672.2 | 2668.3 | 2649.0 | 2616.2 | 2571.4 | 2547.4 | 2545.2 | 2507.0 | 2364.9 | 2149.9 |
| 37.5° | 2789.2 | 2794.1 | 2789.9 | 2773.7 | 2760.6 | 2713.1 | 2700.4 | 2700.4 | 2634.0 | 2474.6 | 2254.5 |
| 40° | 2914.9 | 2922.7 | 2917.7 | 2895.3 | 2884.1 | 2862.5 | 2832.0 | 2824.7 | 2752.9 | 2606.2 | 2425.1 |
| 42.5° | 3032.0 | 3041.9 | 3062.0 | 3048.9 | 3026.2 | 3029.3 | 2967.8 | 2964.0 | 2911.5 | 2800.7 | 2639.3 |
| 45° | 3198.0 | 3212.6 | 3246.5 | 3236.6 | 3231.9 | 3215.0 | 3142.0 | 3138.5 | 3118.4 | 3062.4 | 2905.4 |
| 47.5° | 3379.0 | 3399.1 | 3460.4 | 3462.4 | 3512.2 | 3480.2 | 3381.0 | 3368.9 | 3373.6 | 3375.9 | 3230.0 |
| 50° | 3545.7 | 3567.8 | 3668.5 | 3716.1 | 3833.4 | 3840.3 | 3681.7 | 3670.9 | 3689.0 | 3742.3 | 3608.3 |
| 52.5° | 3678.9 | 3706.8 | 3832.6 | 3979.3 | 4180.4 | 4237.5 | 4051.9 | 4043.8 | 4057.2 | 4149.1 | 4036.0 |
| 55° | 3776.6 | 3806.7 | 3943.8 | 4210.9 | 4532.1 | 4632.9 | 4478.1 | 4470.3 | 4478.8 | 4595.8 | 4501.2 |
| 57.5° | 3799.4 | 3806.7 | 4005.6 | 4366.9 | 4829.0 | 5071.0 | 4999.6 | 4984.1 | 4942.4 | 5044.4 | 5014.7 |
| 60° | 3692.5 | 3721.8 | 3954.6 | 4421.7 | 5058.6 | 5503.0 | 5544.7 | 5525.4 | 5408.4 | 5491.8 | 5467.8 |
| 62.5° | 3475.5 | 3528.0 | 3764.2 | 4338.3 | 5148.6 | 5855.8 | 6079.4 | 6056.2 | 5854.7 | 5908.7 | 5793.7 |
| 65° | 3121.1 | 3143.5 | 3391.8 | 4050.7 | 5034.3 | 6081.6 | 6556.1 | 6544.6 | 6290.9 | 6206.4 | 5853.9 |
| 67.5° | 2487.2 | 2529.3 | 2740.1 | 3449.6 | 4566.9 | 6055.1 | 6924.7 | 6923.6 | 6575.8 | 6316.8 | 5640.4 |
| 69° | 1964.9 | 2008.5 | 2209.3 | 2841.7 | 4041.1 | 5811.5 | 6986.6 | 7000.1 | 6656.1 | 6249.6 | 5335.5 |
| 70° | 1566.5 | 1617.1 | 1755.0 | 2393.5 | 3574.3 | 5490.3 | 6935.2 | 6959.5 | 6640.7 | 6138.8 | 5054.0 |
| 72.5° | 666.7 | 707.6 | 805.6 | 1233.8 | 2178.5 | 4099.7 | 6341.1 | 6433.0 | 6282.8 | 5618.4 | 4176.9 |
| 75° | 291.1 | 303.8 | 348.2 | 503.0 | 967.0 | 2231.3 | 4967.5 | 5137.5 | 5372.1 | 4749.0 | 3111.5 |
| 77.5° | 213.1 | 218.5 | 242.8 | 295.3 | 433.9 | 842.7 | 3194.5 | 3293.3 | 3874.2 | 3455.8 | 1908.6 |
| 80° | 164.9 | 168.7 | 187.6 | 217.0 | 283.3 | 340.9 | 1456.9 | 1541.8 | 2178.5 | 1775.0 | 794.8 |
| 82.5° | 131.2 | 134.0 | 147.1 | 159.8 | 195.7 | 206.6 | 483.7 | 536.6 | 804.1 | 490.3 | 210.4 |
| 85° | 122.0 | 125.0 | 129.7 | 116.6 | 125.5 | 121.2 | 209.2 | 218.9 | 242.8 | 192.7 | 88.0 |
| 87.5° | 55.2 | 65.2 | 128.5 | 90.7 | 66.8 | 53.3 | 85.7 | 89.5 | 100.8 | 101.2 | 39.0 |
| 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-SA2B-735-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 | 1465.0 |
| 2.5° | 1468.5 | 1467.3 | 1469.3 | 1464.6 | 1470.4 | 1470.1 | 1468.1 | 1468.8 | 1472.8 | 1472.3 | 1472.8 |
| 5° | 1477.4 | 1476.6 | 1478.9 | 1475.4 | 1482.4 | 1484.7 | 1485.1 | 1488.6 | 1492.8 | 1494.0 | 1494.0 |
| 7.5° | 1499.7 | 1499.7 | 1501.0 | 1496.3 | 1501.0 | 1500.5 | 1498.6 | 1502.1 | 1506.3 | 1506.7 | 1506.3 |
| 10° | 1538.4 | 1538.7 | 1536.8 | 1524.8 | 1521.0 | 1510.5 | 1501.0 | 1501.3 | 1506.7 | 1510.9 | 1512.1 |
| 12.5° | 1587.0 | 1585.5 | 1577.0 | 1555.0 | 1538.7 | 1517.5 | 1507.4 | 1507.1 | 1512.5 | 1516.0 | 1517.1 |
| 15° | 1642.6 | 1638.4 | 1616.3 | 1580.4 | 1551.9 | 1531.0 | 1514.8 | 1510.9 | 1507.9 | 1504.0 | 1504.4 |
| 17.5° | 1695.1 | 1685.5 | 1648.7 | 1598.9 | 1568.9 | 1541.1 | 1509.8 | 1484.7 | 1467.3 | 1457.3 | 1454.2 |
| 20° | 1748.4 | 1729.4 | 1676.5 | 1616.3 | 1578.1 | 1527.5 | 1467.3 | 1416.4 | 1384.8 | 1370.0 | 1367.4 |
| 22.5° | 1797.1 | 1766.5 | 1702.5 | 1634.5 | 1570.8 | 1482.0 | 1387.4 | 1313.3 | 1269.3 | 1249.6 | 1251.2 |
| 25° | 1844.5 | 1802.0 | 1729.4 | 1647.2 | 1533.7 | 1401.7 | 1276.3 | 1185.1 | 1134.2 | 1112.1 | 1111.4 |
| 27.5° | 1886.2 | 1837.9 | 1758.8 | 1636.8 | 1464.6 | 1287.4 | 1144.7 | 1055.8 | 1013.3 | 994.4 | 991.3 |
| 30° | 1934.0 | 1883.1 | 1797.8 | 1597.1 | 1363.5 | 1155.5 | 1016.0 | 953.5 | 923.4 | 904.4 | 901.0 |
| 32.5° | 1992.4 | 1944.5 | 1829.8 | 1524.8 | 1234.2 | 1017.6 | 915.7 | 872.0 | 844.6 | 823.4 | 819.5 |
| 35° | 2077.3 | 2025.5 | 1837.9 | 1421.4 | 1092.1 | 908.8 | 842.0 | 797.2 | 760.2 | 732.7 | 730.0 |
| 37.5° | 2183.8 | 2127.1 | 1819.4 | 1287.4 | 954.3 | 838.1 | 780.5 | 725.4 | 677.1 | 638.5 | 632.3 |
| 40° | 2337.5 | 2251.7 | 1768.0 | 1133.0 | 852.8 | 783.6 | 720.7 | 657.9 | 598.0 | 552.8 | 543.9 |
| 42.5° | 2522.0 | 2398.1 | 1689.3 | 979.4 | 778.3 | 728.5 | 661.2 | 583.3 | 526.2 | 494.1 | 489.5 |
| 45° | 2756.7 | 2550.2 | 1580.1 | 845.1 | 704.9 | 673.3 | 597.2 | 525.4 | 489.9 | 466.3 | 462.5 |
| 47.5° | 3024.7 | 2720.8 | 1465.4 | 735.8 | 642.7 | 621.5 | 545.9 | 499.6 | 471.4 | 452.8 | 449.3 |
| 50° | 3353.9 | 2913.4 | 1343.8 | 646.2 | 580.3 | 559.4 | 521.6 | 485.3 | 462.8 | 448.6 | 445.1 |
| 52.5° | 3725.3 | 3130.8 | 1256.2 | 575.6 | 528.5 | 513.5 | 508.8 | 477.5 | 459.4 | 448.6 | 445.1 |
| 55° | 4125.3 | 3351.9 | 1161.6 | 516.1 | 483.7 | 487.9 | 500.3 | 478.3 | 465.9 | 452.8 | 447.8 |
| 57.5° | 4525.5 | 3580.5 | 1056.2 | 465.9 | 448.2 | 469.0 | 494.5 | 479.8 | 469.4 | 456.6 | 452.0 |
| 60° | 4842.1 | 3725.3 | 892.9 | 423.9 | 420.0 | 448.2 | 480.6 | 468.3 | 454.8 | 455.1 | 454.4 |
| 62.5° | 4990.0 | 3717.6 | 712.6 | 386.5 | 391.8 | 420.0 | 458.2 | 450.2 | 438.9 | 454.0 | 455.1 |
| 65° | 4906.9 | 3532.2 | 554.7 | 352.5 | 361.8 | 390.7 | 435.0 | 441.2 | 445.1 | 474.0 | 478.0 |
| 67.5° | 4558.8 | 3171.7 | 429.7 | 322.8 | 334.3 | 370.6 | 437.4 | 480.6 | 485.7 | 516.1 | 515.7 |
| 69° | 4198.5 | 2833.5 | 373.3 | 307.3 | 320.8 | 375.6 | 467.5 | 505.7 | 486.8 | 519.2 | 514.6 |
| 70° | 3896.7 | 2566.0 | 343.2 | 296.8 | 314.6 | 384.5 | 487.5 | 505.3 | 481.0 | 508.8 | 501.1 |
| 72.5° | 3001.1 | 1846.0 | 291.1 | 277.6 | 293.7 | 367.9 | 493.4 | 494.1 | 467.5 | 472.9 | 459.7 |
| 75° | 2058.4 | 1166.6 | 254.0 | 251.3 | 262.1 | 331.6 | 474.9 | 472.1 | 432.4 | 424.6 | 413.8 |
| 77.5° | 1135.0 | 592.6 | 215.8 | 226.2 | 233.5 | 293.7 | 431.6 | 427.7 | 394.9 | 378.7 | 374.8 |
| 80° | 437.8 | 259.5 | 182.2 | 201.1 | 205.7 | 254.4 | 378.3 | 374.8 | 347.5 | 326.6 | 320.8 |
| 82.5° | 165.2 | 135.9 | 150.6 | 174.1 | 172.6 | 210.0 | 320.4 | 318.5 | 291.9 | 261.3 | 252.0 |
| 85° | 76.5 | 81.4 | 119.3 | 143.6 | 132.5 | 155.6 | 256.4 | 259.8 | 227.3 | 191.1 | 191.1 |
| 87.5° | 32.4 | 45.6 | 84.5 | 108.5 | 89.1 | 105.0 | 188.0 | 179.5 | 164.9 | 114.2 | 107.3 |
| 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)