

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P652750

Luminaire Tested: **GLAN-SA2C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11864 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

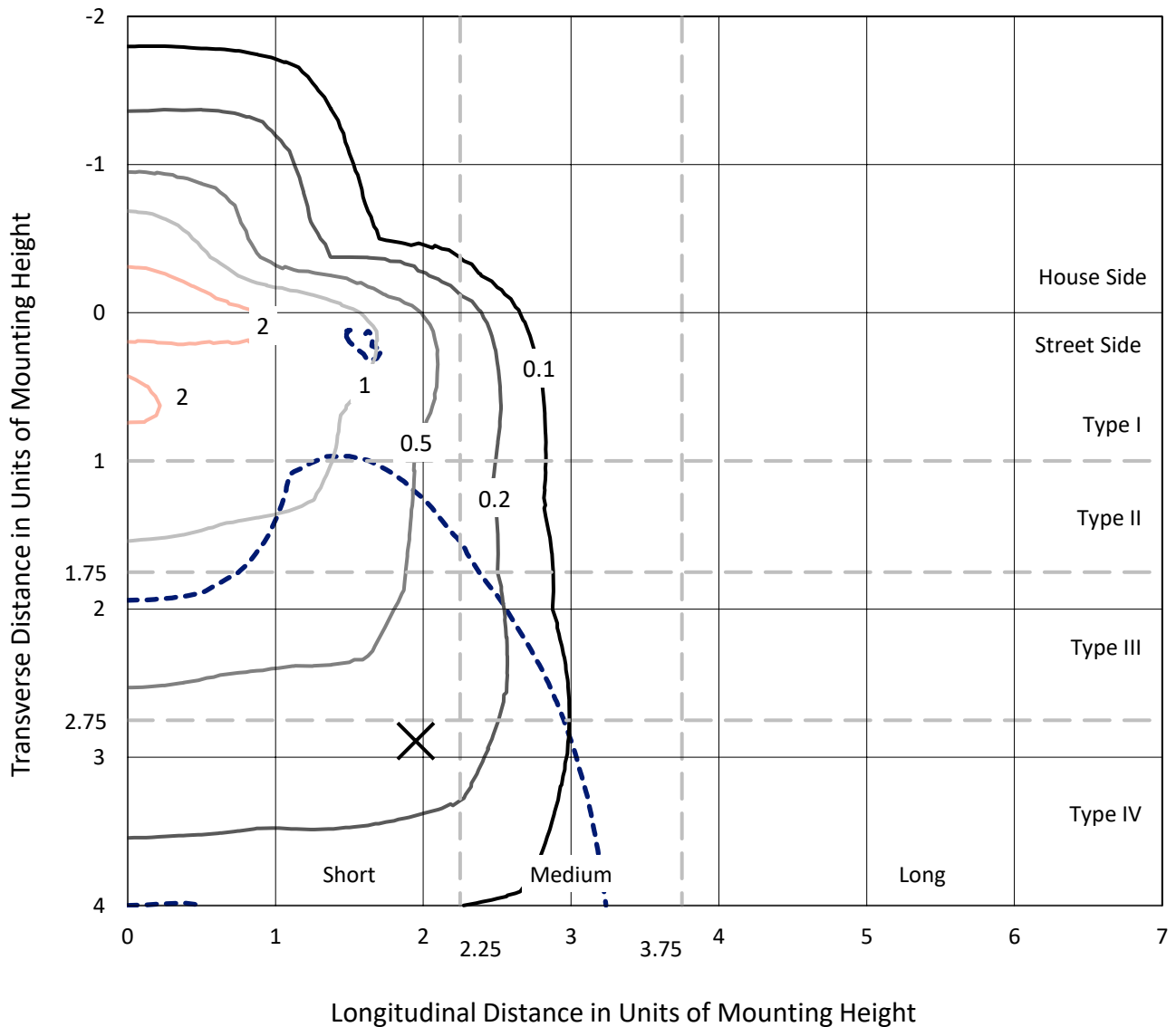
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

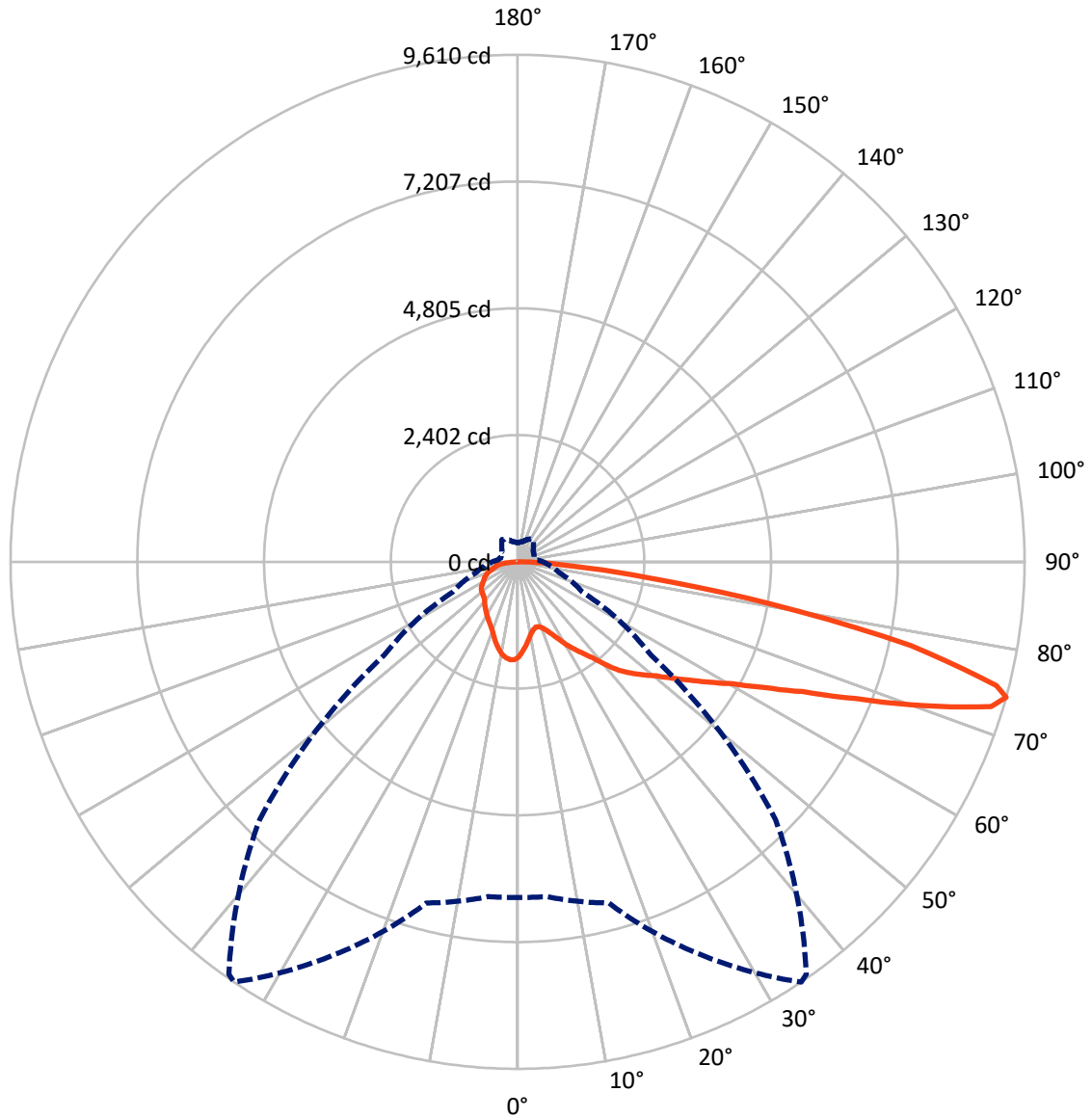
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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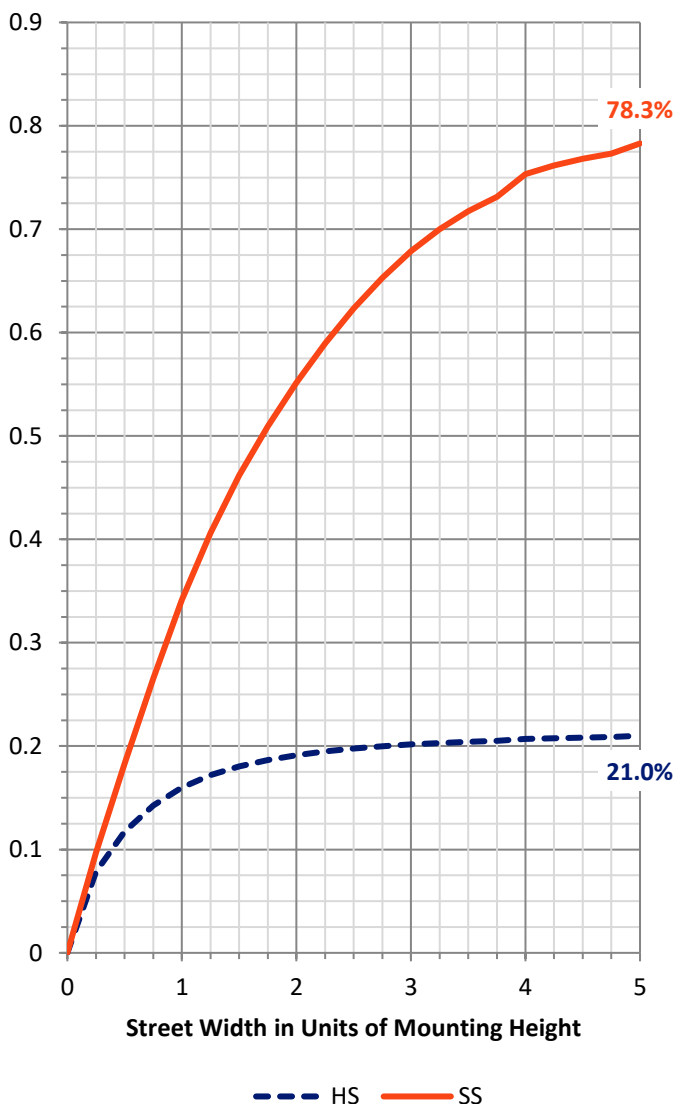
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2524.7 | 0.0 | 2524.7 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 9339.2 | 0.0 | 9339.2 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 11864.0 | 0.0 | 11864.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 164.7 | 1.4 |
| 10°-20° | 451.0 | 3.8 |
| 20°-30° | 743.5 | 6.3 |
| 30°-40° | 1113.7 | 9.4 |
| 40°-50° | 1619.0 | 13.6 |
| 50°-60° | 2261.4 | 19.1 |
| 60°-70° | 2831.2 | 23.9 |
| 70°-80° | 2341.1 | 19.7 |
| 80°-90° | 338.3 | 2.9 |
| 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° | 11864.0 | 100.0 |
| 0°-180° | 11864.0 | 100.0 |

Coefficient of Utilization

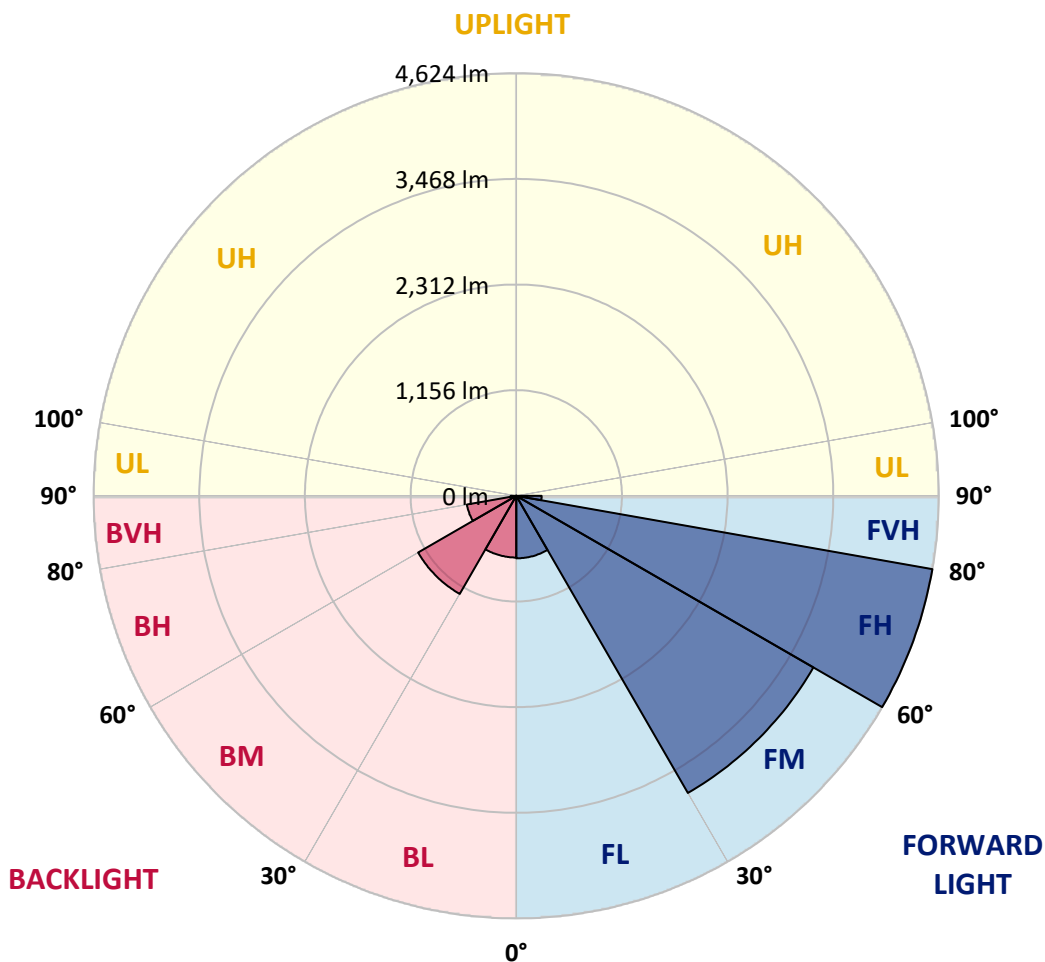


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 683.9 | 5.8 | | | |
| FM (30°-60°) | 3754.3 | 31.6 | | | |
| FH (60°-80°) | 4623.9 | 39.0 | | | G2/5000 |
| FVH (80°-90°) | 277.1 | 2.3 | | | G3/500 |
| BL (0°-30°) | 675.3 | 5.7 | B2/1000 | | |
| BM (30°-60°) | 1239.9 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 548.4 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 61.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 |
| 2.5° | 1674.0 | 1682.6 | 1687.2 | 1703.6 | 1707.6 | 1712.8 | 1726.6 | 1745.0 | 1768.7 | 1789.7 | 1808.2 |
| 5° | 1534.7 | 1547.9 | 1555.7 | 1570.1 | 1598.4 | 1601.1 | 1637.8 | 1680.0 | 1727.9 | 1772.7 | 1809.4 |
| 7.5° | 1402.6 | 1417.0 | 1423.6 | 1449.9 | 1487.4 | 1493.3 | 1547.2 | 1613.5 | 1693.8 | 1761.5 | 1818.0 |
| 10° | 1303.3 | 1310.5 | 1325.0 | 1344.8 | 1389.4 | 1393.4 | 1463.7 | 1552.4 | 1656.3 | 1756.2 | 1832.5 |
| 12.5° | 1249.5 | 1253.4 | 1256.7 | 1277.7 | 1321.7 | 1327.7 | 1401.3 | 1501.9 | 1626.7 | 1760.1 | 1856.1 |
| 15° | 1257.3 | 1258.6 | 1244.2 | 1248.1 | 1283.6 | 1292.2 | 1365.1 | 1468.3 | 1608.3 | 1770.0 | 1891.6 |
| 17.5° | 1323.7 | 1319.1 | 1283.6 | 1265.2 | 1290.2 | 1294.1 | 1357.9 | 1455.2 | 1599.8 | 1788.4 | 1928.4 |
| 20° | 1428.2 | 1421.6 | 1360.5 | 1319.8 | 1334.2 | 1337.5 | 1381.5 | 1465.0 | 1608.3 | 1818.7 | 1985.6 |
| 22.5° | 1558.4 | 1555.7 | 1463.1 | 1413.7 | 1413.1 | 1413.1 | 1436.1 | 1500.5 | 1634.0 | 1860.0 | 2045.4 |
| 25° | 1740.4 | 1726.6 | 1605.6 | 1541.9 | 1524.1 | 1522.9 | 1520.2 | 1559.0 | 1666.8 | 1904.1 | 2116.4 |
| 27.5° | 1927.1 | 1903.4 | 1795.6 | 1697.7 | 1659.5 | 1655.0 | 1637.8 | 1641.8 | 1708.8 | 1954.0 | 2197.2 |
| 30° | 2094.7 | 2079.5 | 1978.4 | 1869.9 | 1824.5 | 1814.0 | 1766.7 | 1745.0 | 1779.2 | 2044.1 | 2326.0 |
| 32.5° | 2222.8 | 2213.6 | 2134.8 | 2036.1 | 1969.1 | 1967.2 | 1898.1 | 1880.4 | 1889.0 | 2153.1 | 2473.2 |
| 35° | 2326.7 | 2330.0 | 2289.9 | 2204.4 | 2127.6 | 2116.4 | 2070.4 | 2048.0 | 2023.0 | 2310.9 | 2658.6 |
| 37.5° | 2468.7 | 2475.9 | 2473.2 | 2399.6 | 2305.7 | 2308.3 | 2297.8 | 2260.9 | 2194.6 | 2487.1 | 2864.3 |
| 40° | 2625.1 | 2630.3 | 2629.6 | 2601.4 | 2552.1 | 2554.8 | 2550.8 | 2508.7 | 2409.5 | 2711.2 | 3093.0 |
| 42.5° | 2841.3 | 2816.3 | 2751.2 | 2779.5 | 2808.4 | 2821.0 | 2847.9 | 2807.8 | 2671.8 | 2950.4 | 3308.0 |
| 45° | 3083.2 | 3035.8 | 2888.7 | 2901.8 | 3008.9 | 3032.6 | 3181.1 | 3125.9 | 2956.4 | 3225.2 | 3561.0 |
| 47.5° | 3235.7 | 3189.0 | 3064.8 | 3062.2 | 3204.1 | 3227.1 | 3490.1 | 3469.6 | 3215.3 | 3521.6 | 3869.9 |
| 50° | 3371.7 | 3365.2 | 3225.2 | 3258.7 | 3397.4 | 3431.5 | 3826.6 | 3807.5 | 3473.6 | 3871.2 | 4206.4 |
| 52.5° | 3573.5 | 3520.3 | 3408.5 | 3477.5 | 3660.9 | 3705.6 | 4160.4 | 4104.6 | 3710.8 | 4180.1 | 4533.1 |
| 55° | 3664.2 | 3651.7 | 3645.1 | 3704.9 | 3956.7 | 3988.9 | 4485.1 | 4357.0 | 3913.3 | 4441.7 | 4781.5 |
| 57.5° | 3906.7 | 3883.7 | 3948.8 | 3989.5 | 4305.0 | 4354.3 | 4824.2 | 4620.5 | 4090.8 | 4649.4 | 4902.4 |
| 60° | 4220.9 | 4208.4 | 4268.2 | 4341.8 | 4694.1 | 4769.1 | 5210.8 | 4845.3 | 4233.3 | 4753.9 | 4836.1 |
| 62.5° | 4690.2 | 4688.8 | 4677.7 | 4835.4 | 5245.6 | 5314.5 | 5654.4 | 5064.2 | 4255.7 | 4675.7 | 4493.0 |
| 65° | 5363.2 | 5339.5 | 5242.3 | 5414.4 | 5931.7 | 6012.6 | 6116.4 | 5186.4 | 4121.0 | 4274.1 | 3783.2 |
| 67.5° | 6067.1 | 6065.8 | 5986.9 | 6210.4 | 6917.0 | 7000.4 | 6694.1 | 5159.5 | 3747.0 | 3462.4 | 2686.8 |
| 70° | 6650.8 | 6622.5 | 6723.0 | 7318.6 | 8175.6 | 8272.2 | 7199.5 | 4842.0 | 2984.6 | 2286.6 | 1596.5 |
| 72.5° | 6790.7 | 6792.1 | 7001.1 | 8173.0 | 9384.3 | 9399.4 | 7381.6 | 3924.4 | 1997.4 | 1261.2 | 798.5 |
| 74° | 6359.6 | 6370.7 | 6694.8 | 8215.7 | 9609.8 | 9541.4 | 6916.3 | 3084.5 | 1350.6 | 823.5 | 575.7 |
| 75° | 5804.9 | 5734.5 | 6203.2 | 7931.1 | 9375.7 | 9302.1 | 6371.4 | 2475.2 | 1030.6 | 657.9 | 504.1 |
| 77.5° | 3103.5 | 3175.2 | 3898.2 | 5918.6 | 7616.9 | 7532.2 | 4320.1 | 1187.0 | 556.7 | 458.1 | 362.8 |
| 80° | 1104.8 | 1218.5 | 1712.8 | 3097.0 | 4883.4 | 4909.7 | 2061.8 | 544.2 | 391.7 | 337.8 | 256.3 |
| 82.5° | 450.9 | 463.4 | 735.5 | 1374.4 | 2479.9 | 2503.5 | 841.9 | 323.4 | 280.0 | 232.7 | 153.1 |
| 85° | 176.1 | 181.4 | 325.4 | 617.8 | 1058.1 | 1127.2 | 291.2 | 170.9 | 172.2 | 133.4 | 78.2 |
| 87.5° | 59.1 | 67.0 | 133.4 | 205.7 | 359.5 | 352.3 | 84.8 | 50.6 | 61.8 | 57.9 | 24.3 |
| 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: GLAN-SA2C-840-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 | 1811.4 |
| 2.5° | 1817.3 | 1829.8 | 1838.3 | 1847.5 | 1856.1 | 1858.7 | 1856.8 | 1862.6 | 1863.3 | 1864.0 | 1864.7 |
| 5° | 1827.8 | 1844.9 | 1861.4 | 1870.6 | 1874.5 | 1871.2 | 1860.0 | 1854.2 | 1848.9 | 1844.9 | 1846.2 |
| 7.5° | 1842.3 | 1866.6 | 1881.7 | 1885.7 | 1875.2 | 1860.0 | 1832.5 | 1810.8 | 1797.0 | 1787.7 | 1787.0 |
| 10° | 1864.7 | 1888.3 | 1900.7 | 1889.6 | 1860.7 | 1823.9 | 1780.5 | 1739.8 | 1708.8 | 1699.7 | 1699.0 |
| 12.5° | 1892.9 | 1919.8 | 1919.2 | 1886.4 | 1835.7 | 1770.0 | 1699.7 | 1652.3 | 1610.3 | 1589.2 | 1597.8 |
| 15° | 1929.7 | 1950.1 | 1931.0 | 1871.9 | 1791.7 | 1701.6 | 1614.9 | 1550.5 | 1503.1 | 1480.8 | 1482.1 |
| 17.5° | 1972.4 | 1990.1 | 1939.6 | 1846.2 | 1729.9 | 1614.2 | 1513.6 | 1452.6 | 1415.1 | 1398.7 | 1397.3 |
| 20° | 2025.6 | 2030.9 | 1939.6 | 1801.5 | 1650.4 | 1512.4 | 1416.4 | 1373.7 | 1352.7 | 1344.1 | 1346.7 |
| 22.5° | 2082.8 | 2072.3 | 1929.1 | 1738.4 | 1545.8 | 1405.9 | 1341.5 | 1322.4 | 1311.9 | 1310.5 | 1311.9 |
| 25° | 2147.2 | 2117.6 | 1907.4 | 1653.0 | 1436.8 | 1313.9 | 1276.4 | 1279.7 | 1281.7 | 1281.7 | 1286.2 |
| 27.5° | 2226.1 | 2167.0 | 1871.2 | 1545.2 | 1309.3 | 1228.4 | 1217.9 | 1240.9 | 1251.4 | 1253.4 | 1256.7 |
| 30° | 2330.0 | 2220.8 | 1811.4 | 1410.4 | 1200.8 | 1151.5 | 1169.9 | 1200.8 | 1212.6 | 1219.9 | 1218.5 |
| 32.5° | 2453.5 | 2280.0 | 1730.5 | 1275.7 | 1113.4 | 1097.6 | 1120.0 | 1151.5 | 1164.6 | 1168.6 | 1163.4 |
| 35° | 2598.8 | 2347.1 | 1624.1 | 1149.6 | 1037.1 | 1046.4 | 1072.6 | 1082.5 | 1094.3 | 1094.3 | 1097.0 |
| 37.5° | 2755.2 | 2401.0 | 1494.0 | 1033.8 | 978.0 | 1011.6 | 1030.6 | 1021.4 | 1016.1 | 1009.5 | 1012.8 |
| 40° | 2914.2 | 2441.1 | 1325.0 | 919.5 | 918.9 | 975.4 | 980.6 | 954.4 | 933.3 | 926.7 | 923.4 |
| 42.5° | 3052.9 | 2466.1 | 1172.5 | 830.7 | 863.0 | 939.9 | 943.9 | 901.7 | 868.2 | 848.5 | 841.9 |
| 45° | 3216.6 | 2494.9 | 1023.3 | 757.2 | 811.1 | 911.6 | 921.5 | 865.0 | 815.7 | 774.2 | 763.7 |
| 47.5° | 3440.7 | 2560.7 | 905.7 | 700.0 | 773.6 | 893.9 | 907.7 | 834.7 | 769.7 | 715.8 | 707.2 |
| 50° | 3693.8 | 2650.7 | 814.3 | 661.2 | 744.7 | 878.1 | 895.2 | 803.8 | 727.0 | 667.1 | 660.5 |
| 52.5° | 3925.8 | 2699.4 | 735.5 | 626.4 | 716.4 | 849.2 | 878.8 | 781.5 | 684.8 | 618.5 | 612.6 |
| 55° | 4052.6 | 2620.5 | 657.9 | 592.1 | 677.6 | 811.7 | 855.7 | 750.6 | 644.1 | 592.8 | 584.3 |
| 57.5° | 4069.8 | 2457.5 | 587.6 | 555.4 | 636.9 | 765.7 | 813.0 | 713.1 | 617.8 | 575.1 | 567.8 |
| 60° | 3937.6 | 2214.3 | 533.0 | 525.1 | 595.5 | 713.8 | 765.1 | 680.3 | 590.9 | 555.4 | 548.2 |
| 62.5° | 3609.0 | 1950.1 | 494.9 | 497.5 | 553.4 | 659.3 | 729.6 | 648.7 | 565.2 | 533.7 | 527.1 |
| 65° | 3043.7 | 1609.6 | 458.1 | 469.3 | 516.0 | 616.5 | 697.4 | 622.4 | 539.6 | 517.3 | 511.3 |
| 67.5° | 2114.4 | 1162.0 | 427.9 | 439.7 | 480.5 | 573.1 | 659.8 | 594.2 | 510.7 | 498.9 | 489.6 |
| 70° | 1170.6 | 715.1 | 392.4 | 406.2 | 443.6 | 524.5 | 617.8 | 551.4 | 468.6 | 463.4 | 450.2 |
| 72.5° | 615.2 | 455.5 | 352.3 | 367.4 | 393.7 | 462.0 | 553.4 | 504.8 | 427.2 | 404.9 | 387.8 |
| 74° | 480.5 | 373.3 | 325.4 | 341.1 | 358.9 | 425.2 | 515.3 | 471.2 | 397.6 | 371.4 | 358.2 |
| 75° | 418.6 | 332.5 | 302.3 | 322.7 | 338.5 | 400.2 | 485.7 | 447.6 | 381.2 | 356.2 | 344.4 |
| 77.5° | 295.8 | 249.1 | 247.2 | 271.5 | 280.0 | 350.9 | 437.7 | 407.5 | 339.8 | 313.5 | 302.3 |
| 80° | 207.7 | 186.7 | 195.9 | 211.0 | 222.8 | 310.2 | 406.2 | 352.3 | 278.7 | 247.8 | 243.8 |
| 82.5° | 135.4 | 122.3 | 140.0 | 153.8 | 157.8 | 228.8 | 328.0 | 267.5 | 203.1 | 165.0 | 153.1 |
| 85° | 62.4 | 61.1 | 80.1 | 78.2 | 77.5 | 111.8 | 194.5 | 156.4 | 117.0 | 87.4 | 82.2 |
| 87.5° | 15.8 | 15.1 | 19.7 | 16.4 | 19.7 | 17.1 | 17.7 | 4.6 | 0.7 | 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)