

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: P654389

Luminaire Tested: **GLAN-SA5B-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24423.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

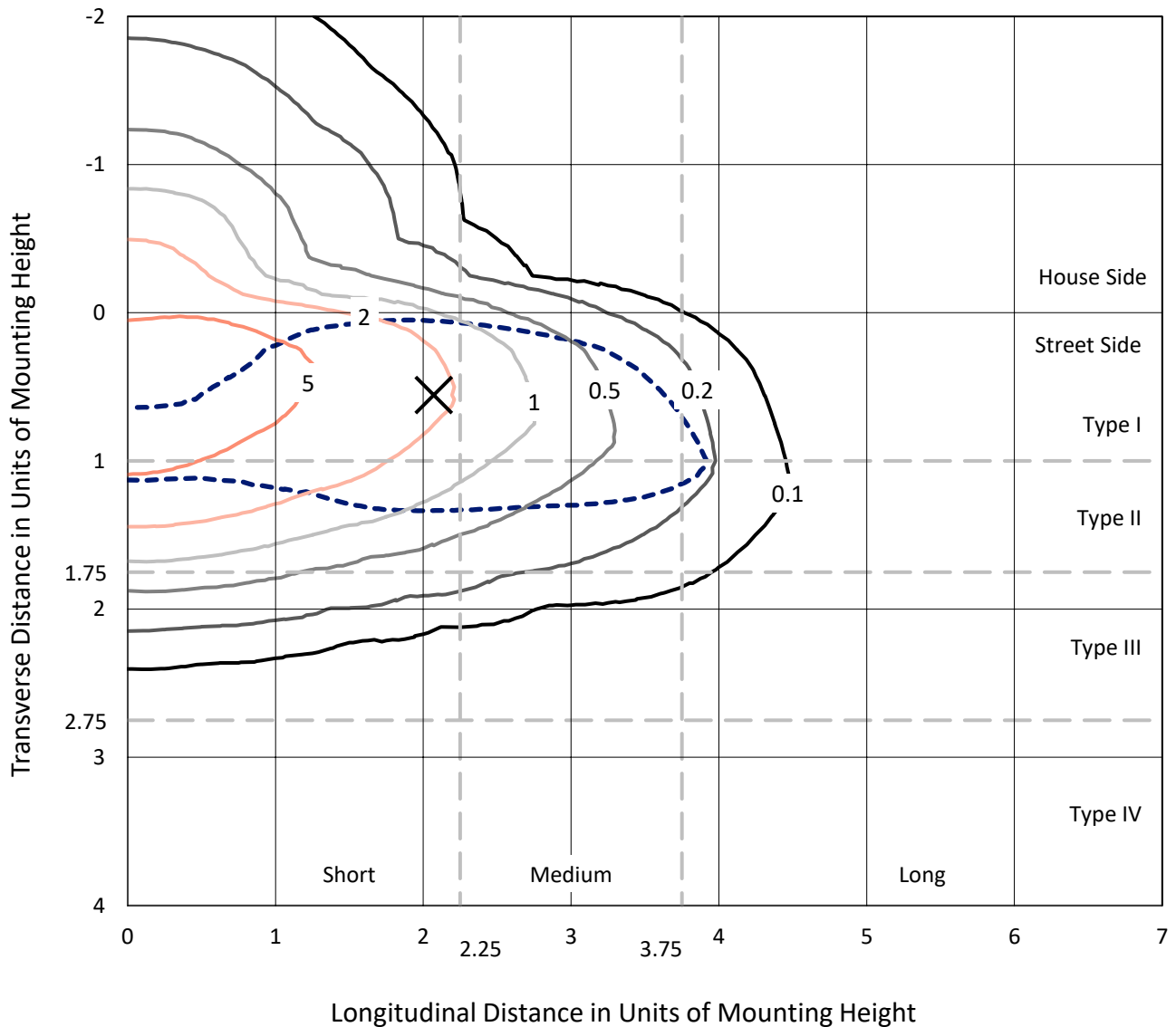
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

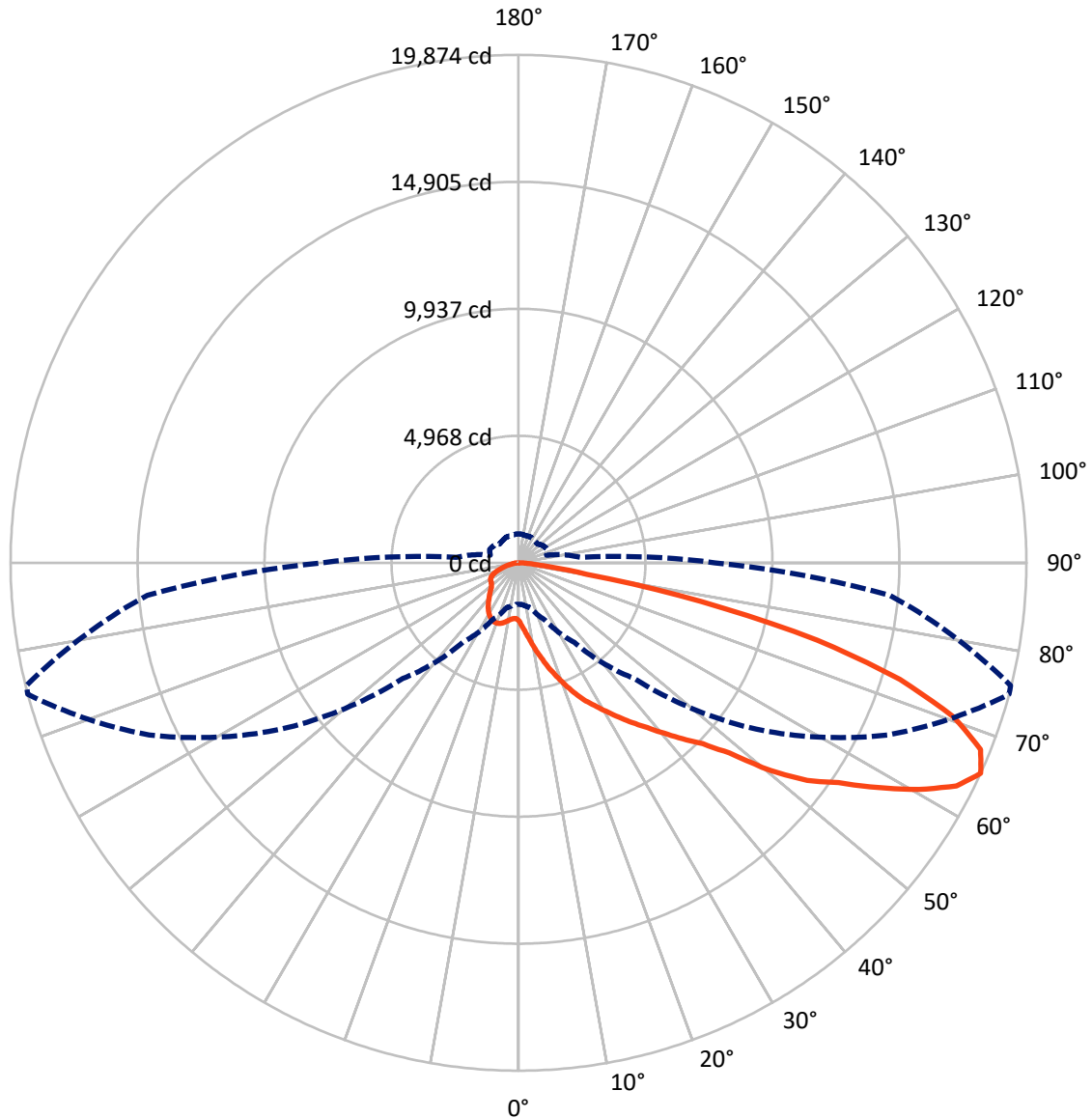
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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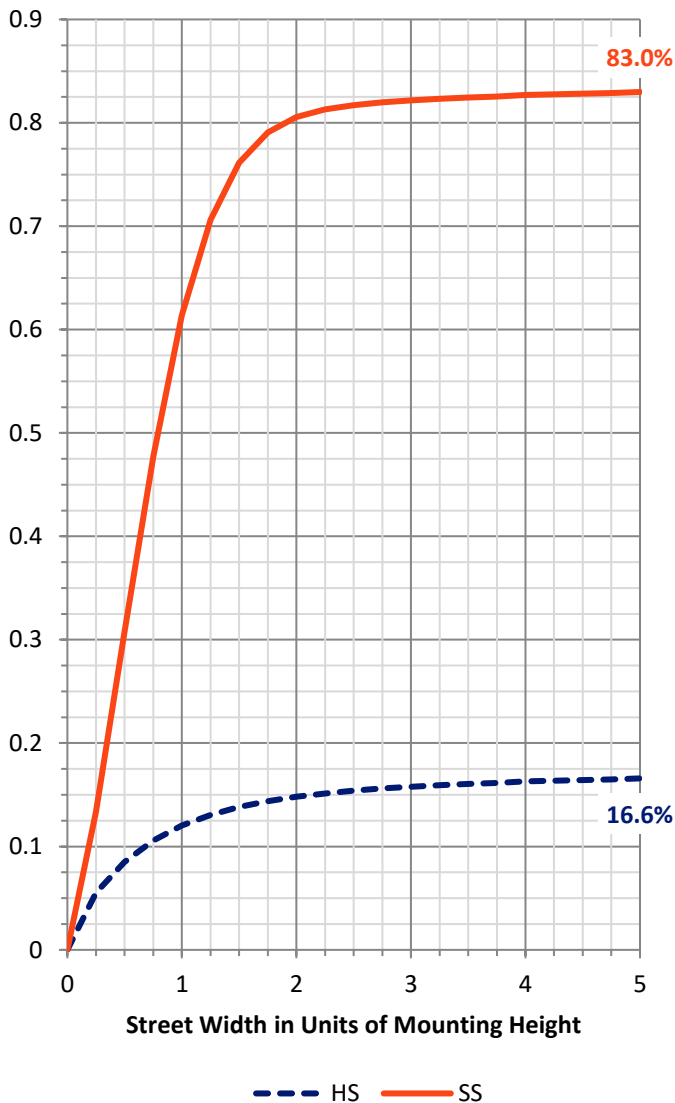
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4105.9 | 0.0 | 4105.9 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 20317.6 | 0.0 | 20317.6 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 24423.5 | 0.0 | 24423.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 275.7 | 1.1 |
| 10°-20° | 1079.9 | 4.4 |
| 20°-30° | 2086.0 | 8.5 |
| 30°-40° | 3388.3 | 13.9 |
| 40°-50° | 4660.9 | 19.1 |
| 50°-60° | 5503.0 | 22.5 |
| 60°-70° | 4821.5 | 19.7 |
| 70°-80° | 2301.8 | 9.4 |
| 80°-90° | 306.3 | 1.3 |
| 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° | 24423.5 | 100.0 |
| 0°-180° | 24423.5 | 100.0 |

Coefficient of Utilization



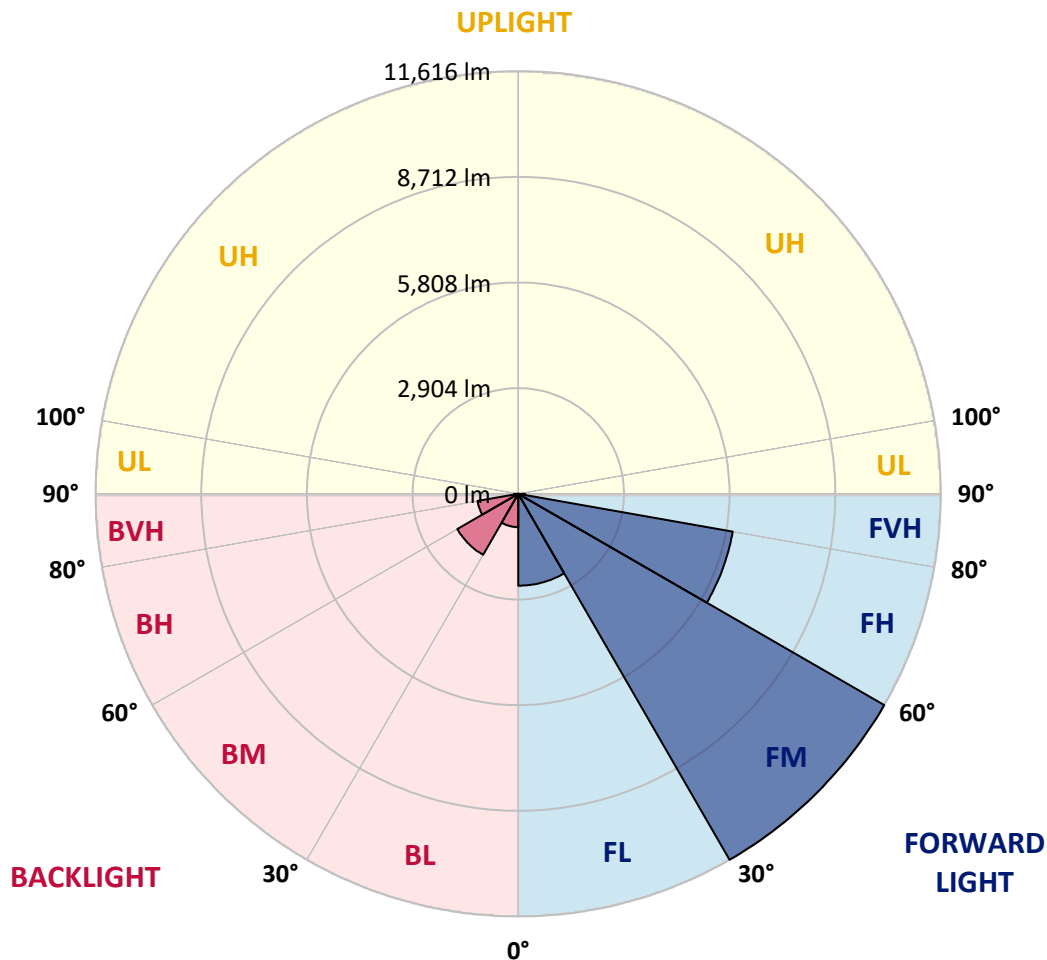
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2525.0 | 10.3 | | | |
| FM (30°-60°) | 11616.3 | 47.6 | | | |
| FH (60°-80°) | 5984.8 | 24.5 | | | G3/7500 |
| FVH (80°-90°) | 191.4 | 0.8 | | | G2/225 |
| BL (0°-30°) | 916.6 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1935.9 | 7.9 | B2/2500 | | |
| BH (60°-80°) | 1138.5 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 114.9 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 |
| 2.5° | 3015.1 | 2995.2 | 2974.0 | 2915.7 | 2853.4 | 2783.2 | 2682.5 | 2585.8 | 2457.4 | 2453.4 | 2358.0 |
| 5° | 3850.9 | 3837.7 | 3743.6 | 3689.4 | 3545.0 | 3352.9 | 3189.9 | 2936.9 | 2702.5 | 2674.6 | 2489.2 |
| 7.5° | 4619.3 | 4567.6 | 4531.9 | 4433.8 | 4290.8 | 4044.4 | 3729.1 | 3387.3 | 2995.2 | 2958.1 | 2650.7 |
| 10° | 5198.2 | 5192.9 | 5174.3 | 5089.6 | 4982.3 | 4737.2 | 4387.5 | 3897.4 | 3366.1 | 3293.3 | 2846.9 |
| 12.5° | 5631.4 | 5635.4 | 5632.7 | 5631.4 | 5554.6 | 5346.6 | 4967.7 | 4451.1 | 3741.0 | 3689.4 | 3073.4 |
| 15° | 5916.2 | 5956.0 | 5971.9 | 6038.1 | 6044.7 | 5905.6 | 5579.7 | 4986.3 | 4163.6 | 4086.8 | 3317.1 |
| 17.5° | 6104.3 | 6124.2 | 6198.3 | 6310.9 | 6402.4 | 6377.2 | 6087.1 | 5481.7 | 4595.5 | 4467.0 | 3570.1 |
| 20° | 6284.5 | 6318.9 | 6375.9 | 6529.5 | 6691.2 | 6765.3 | 6561.3 | 5989.1 | 5023.4 | 4941.2 | 3849.7 |
| 22.5° | 6659.4 | 6708.4 | 6728.3 | 6806.5 | 6944.2 | 7075.3 | 6982.7 | 6475.3 | 5492.3 | 5381.1 | 4146.4 |
| 25° | 7293.9 | 7345.5 | 7290.0 | 7271.4 | 7316.4 | 7381.4 | 7361.5 | 6933.6 | 5934.8 | 5775.8 | 4427.2 |
| 27.5° | 8120.5 | 8127.2 | 8018.5 | 7915.2 | 7804.0 | 7770.8 | 7709.9 | 7340.2 | 6318.9 | 6186.5 | 4709.3 |
| 30° | 9008.1 | 8976.3 | 8796.2 | 8609.4 | 8421.3 | 8235.8 | 8060.9 | 7732.4 | 6746.8 | 6594.4 | 4986.3 |
| 32.5° | 9832.1 | 9814.9 | 9614.8 | 9324.8 | 9006.8 | 8831.9 | 8478.2 | 8128.5 | 7205.2 | 7058.1 | 5271.1 |
| 35° | 10449.4 | 10474.6 | 10254.6 | 9938.1 | 9591.0 | 9436.0 | 8989.5 | 8544.5 | 7679.4 | 7519.1 | 5581.0 |
| 37.5° | 10887.9 | 10874.6 | 10679.9 | 10405.7 | 10101.0 | 9965.8 | 9587.0 | 8998.9 | 8189.4 | 8035.8 | 5920.2 |
| 40° | 11044.2 | 11036.3 | 10891.9 | 10691.8 | 10498.5 | 10450.8 | 10212.3 | 9489.0 | 8773.6 | 8593.5 | 6328.2 |
| 42.5° | 10944.9 | 10962.1 | 10866.7 | 10812.4 | 10776.7 | 10811.1 | 10833.6 | 10131.4 | 9410.8 | 9245.3 | 6770.6 |
| 45° | 10640.2 | 10630.9 | 10617.6 | 10706.4 | 10907.8 | 11134.3 | 11448.3 | 10738.2 | 10103.7 | 9971.1 | 7364.1 |
| 47.5° | 10095.7 | 10162.0 | 10195.1 | 10440.2 | 10879.9 | 11416.5 | 12155.6 | 11551.6 | 11109.1 | 10993.9 | 8268.9 |
| 50° | 9334.0 | 9387.0 | 9583.0 | 10018.9 | 10674.6 | 11522.5 | 12847.2 | 12881.6 | 12786.2 | 12570.3 | 9251.8 |
| 52.5° | 8144.4 | 8226.5 | 8630.6 | 9429.4 | 10253.4 | 11478.7 | 13265.8 | 14022.2 | 14148.1 | 13986.4 | 10220.3 |
| 55° | 6813.0 | 6928.3 | 7354.9 | 8402.7 | 9673.1 | 11240.3 | 13554.6 | 14683.2 | 15185.3 | 15035.6 | 11152.8 |
| 57.5° | 5509.6 | 5631.4 | 6069.9 | 7084.6 | 8661.0 | 10713.0 | 13744.0 | 15419.7 | 16597.5 | 16402.7 | 12313.3 |
| 60° | 4129.1 | 4256.3 | 4632.6 | 5677.8 | 7219.7 | 9682.4 | 13615.5 | 16058.3 | 18008.2 | 17924.8 | 13475.1 |
| 62.5° | 2664.0 | 2804.4 | 3131.6 | 3996.7 | 5549.3 | 8274.2 | 12927.9 | 16410.7 | 19229.6 | 19129.0 | 14322.9 |
| 65° | 1622.8 | 1638.7 | 1818.8 | 2481.2 | 3798.0 | 6406.3 | 11355.5 | 15943.0 | 19873.5 | 19843.1 | 14581.3 |
| 67.5° | 1049.1 | 1074.4 | 1156.5 | 1486.3 | 2277.2 | 4449.7 | 9079.7 | 14399.8 | 19497.2 | 19486.6 | 14047.4 |
| 70° | 886.2 | 894.2 | 931.2 | 1002.8 | 1323.4 | 2698.4 | 6375.9 | 11939.8 | 18067.9 | 18067.9 | 12763.7 |
| 72.5° | 792.2 | 802.8 | 816.0 | 838.6 | 944.5 | 1528.8 | 3804.6 | 9294.2 | 15600.0 | 15703.2 | 10864.0 |
| 75° | 719.3 | 716.7 | 724.6 | 728.6 | 805.4 | 998.9 | 1967.2 | 6874.0 | 12068.2 | 11861.5 | 7867.6 |
| 77.5° | 616.0 | 620.0 | 616.0 | 633.2 | 711.4 | 760.4 | 998.9 | 4612.7 | 7313.8 | 7046.2 | 3949.0 |
| 80° | 506.0 | 512.7 | 519.3 | 529.9 | 608.0 | 577.6 | 600.1 | 2102.3 | 2705.1 | 2648.1 | 1220.0 |
| 82.5° | 380.2 | 389.5 | 400.1 | 425.2 | 478.2 | 381.6 | 378.9 | 898.2 | 976.3 | 894.2 | 449.1 |
| 85° | 153.7 | 181.5 | 274.3 | 299.4 | 300.7 | 209.3 | 233.1 | 374.9 | 398.7 | 389.5 | 176.2 |
| 87.5° | 35.7 | 42.4 | 88.7 | 133.8 | 123.2 | 78.1 | 86.1 | 121.9 | 139.1 | 128.5 | 59.6 |
| 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-SA5B-840-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 | 2269.3 |
| 2.5° | 2314.3 | 2267.9 | 2188.5 | 2127.5 | 2083.8 | 2045.4 | 2021.5 | 2007.0 | 2001.7 | 2000.3 | 2001.7 |
| 5° | 2392.5 | 2310.3 | 2184.5 | 2105.0 | 2061.3 | 2036.1 | 2021.5 | 2020.2 | 2021.5 | 2022.9 | 2018.9 |
| 7.5° | 2499.8 | 2381.9 | 2217.5 | 2143.4 | 2110.3 | 2091.7 | 2085.1 | 2082.5 | 2083.8 | 2082.5 | 2082.5 |
| 10° | 2642.8 | 2481.2 | 2282.5 | 2205.7 | 2177.9 | 2156.7 | 2146.1 | 2139.4 | 2134.1 | 2128.8 | 2126.2 |
| 12.5° | 2800.4 | 2591.1 | 2352.7 | 2278.5 | 2238.7 | 2205.7 | 2181.8 | 2164.6 | 2152.7 | 2140.8 | 2138.1 |
| 15° | 2976.6 | 2707.8 | 2430.8 | 2327.6 | 2270.6 | 2221.6 | 2180.5 | 2152.7 | 2131.5 | 2114.3 | 2112.9 |
| 17.5° | 3144.9 | 2817.7 | 2483.9 | 2350.1 | 2266.6 | 2197.7 | 2143.4 | 2105.0 | 2078.5 | 2056.0 | 2053.3 |
| 20° | 3325.1 | 2922.3 | 2507.7 | 2335.5 | 2226.9 | 2143.4 | 2071.9 | 2025.5 | 1995.0 | 1969.9 | 1965.9 |
| 22.5° | 3506.5 | 3011.1 | 2505.1 | 2289.1 | 2158.0 | 2059.9 | 1984.4 | 1935.4 | 1899.7 | 1874.5 | 1865.2 |
| 25° | 3680.0 | 3082.6 | 2472.0 | 2214.9 | 2062.6 | 1960.6 | 1883.8 | 1838.7 | 1806.9 | 1776.4 | 1776.4 |
| 27.5° | 3836.4 | 3125.0 | 2409.6 | 2124.9 | 1964.6 | 1857.3 | 1796.3 | 1755.3 | 1726.2 | 1706.2 | 1694.3 |
| 30° | 3990.0 | 3144.9 | 2324.9 | 2010.9 | 1861.2 | 1769.8 | 1720.9 | 1697.0 | 1670.5 | 1647.9 | 1645.3 |
| 32.5° | 4127.8 | 3140.9 | 2218.9 | 1899.7 | 1763.2 | 1698.3 | 1678.4 | 1659.9 | 1632.0 | 1600.3 | 1592.3 |
| 35° | 4261.6 | 3114.4 | 2093.1 | 1777.8 | 1681.1 | 1655.9 | 1661.2 | 1634.7 | 1584.4 | 1544.7 | 1538.0 |
| 37.5° | 4407.3 | 3066.7 | 1955.3 | 1678.4 | 1612.2 | 1636.0 | 1649.3 | 1591.0 | 1508.8 | 1446.6 | 1432.1 |
| 40° | 4575.6 | 3012.4 | 1812.2 | 1579.1 | 1557.9 | 1617.5 | 1617.5 | 1510.2 | 1397.6 | 1359.1 | 1348.5 |
| 42.5° | 4773.0 | 2967.4 | 1693.0 | 1495.6 | 1512.9 | 1572.4 | 1565.9 | 1402.9 | 1356.5 | 1336.7 | 1331.4 |
| 45° | 5085.6 | 2951.5 | 1569.8 | 1422.7 | 1475.7 | 1519.4 | 1465.1 | 1365.8 | 1339.3 | 1323.4 | 1318.1 |
| 47.5° | 5579.7 | 2970.0 | 1461.2 | 1368.5 | 1433.3 | 1466.5 | 1352.6 | 1340.6 | 1322.1 | 1299.5 | 1296.9 |
| 50° | 6038.1 | 2952.8 | 1384.4 | 1337.9 | 1396.2 | 1402.9 | 1306.2 | 1310.1 | 1299.5 | 1274.4 | 1269.1 |
| 52.5° | 6413.0 | 2898.5 | 1335.3 | 1322.1 | 1364.4 | 1291.6 | 1262.4 | 1277.1 | 1273.0 | 1241.2 | 1235.9 |
| 55° | 6825.0 | 2865.4 | 1311.5 | 1322.1 | 1343.2 | 1194.9 | 1221.4 | 1242.6 | 1237.3 | 1214.7 | 1213.5 |
| 57.5° | 7324.4 | 2872.0 | 1294.2 | 1326.1 | 1322.1 | 1145.9 | 1180.3 | 1205.5 | 1204.1 | 1197.6 | 1197.6 |
| 60° | 7835.8 | 2874.6 | 1267.7 | 1324.7 | 1296.9 | 1107.4 | 1138.0 | 1173.7 | 1176.4 | 1180.3 | 1180.3 |
| 62.5° | 8005.3 | 2759.4 | 1216.1 | 1300.9 | 1241.2 | 1070.3 | 1098.2 | 1147.2 | 1144.6 | 1155.2 | 1156.5 |
| 65° | 7688.7 | 2440.2 | 1139.3 | 1246.5 | 1169.7 | 1043.8 | 1067.7 | 1112.7 | 1098.2 | 1126.0 | 1131.3 |
| 67.5° | 6998.5 | 2018.9 | 1020.0 | 1148.6 | 1090.3 | 1016.1 | 1047.9 | 1065.0 | 1038.6 | 1092.9 | 1094.2 |
| 70° | 6048.7 | 1576.5 | 869.0 | 1009.5 | 1000.2 | 986.9 | 1032.0 | 1005.5 | 968.4 | 1034.6 | 1021.4 |
| 72.5° | 5057.8 | 1204.1 | 694.2 | 825.3 | 879.6 | 943.2 | 1004.2 | 928.6 | 877.0 | 896.8 | 873.0 |
| 75° | 3799.3 | 890.2 | 557.7 | 646.5 | 732.6 | 880.9 | 979.0 | 835.9 | 756.4 | 737.9 | 732.6 |
| 77.5° | 1936.7 | 581.6 | 417.3 | 483.5 | 549.8 | 796.2 | 944.5 | 727.3 | 626.6 | 597.4 | 584.2 |
| 80° | 691.5 | 361.6 | 294.1 | 333.8 | 370.9 | 684.9 | 825.3 | 601.4 | 486.2 | 480.9 | 486.2 |
| 82.5° | 320.6 | 233.1 | 197.4 | 218.6 | 219.9 | 457.0 | 629.2 | 449.1 | 369.6 | 561.7 | 474.2 |
| 85° | 137.8 | 116.6 | 111.3 | 108.7 | 100.7 | 204.0 | 353.7 | 241.1 | 376.2 | 168.2 | 155.0 |
| 87.5° | 41.0 | 46.3 | 41.0 | 30.4 | 22.5 | 22.5 | 35.7 | 13.3 | 9.3 | 6.6 | 6.6 |
| 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)