

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: P527414

Luminaire Tested: **GLAN-SA2B-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7938 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

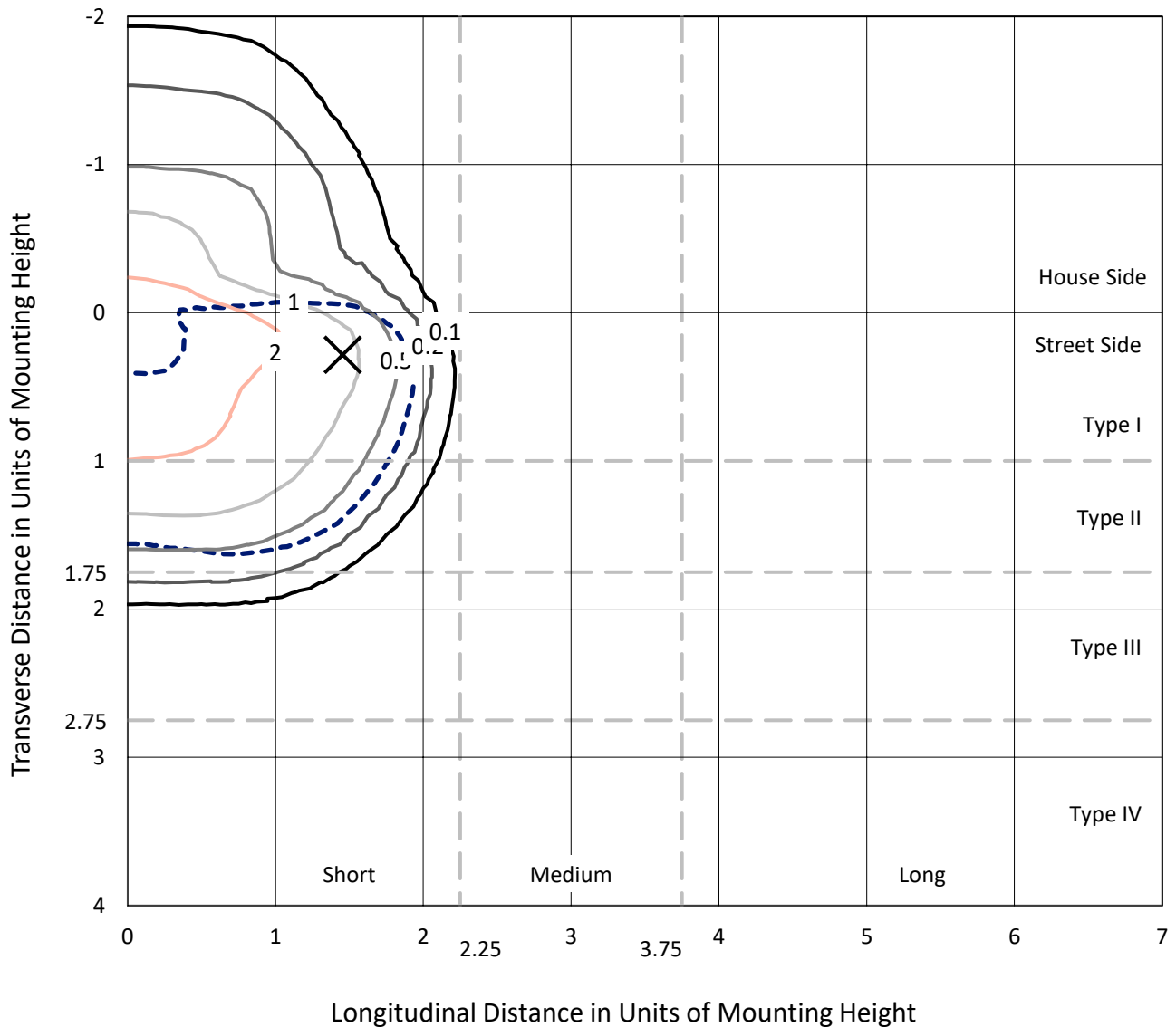
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

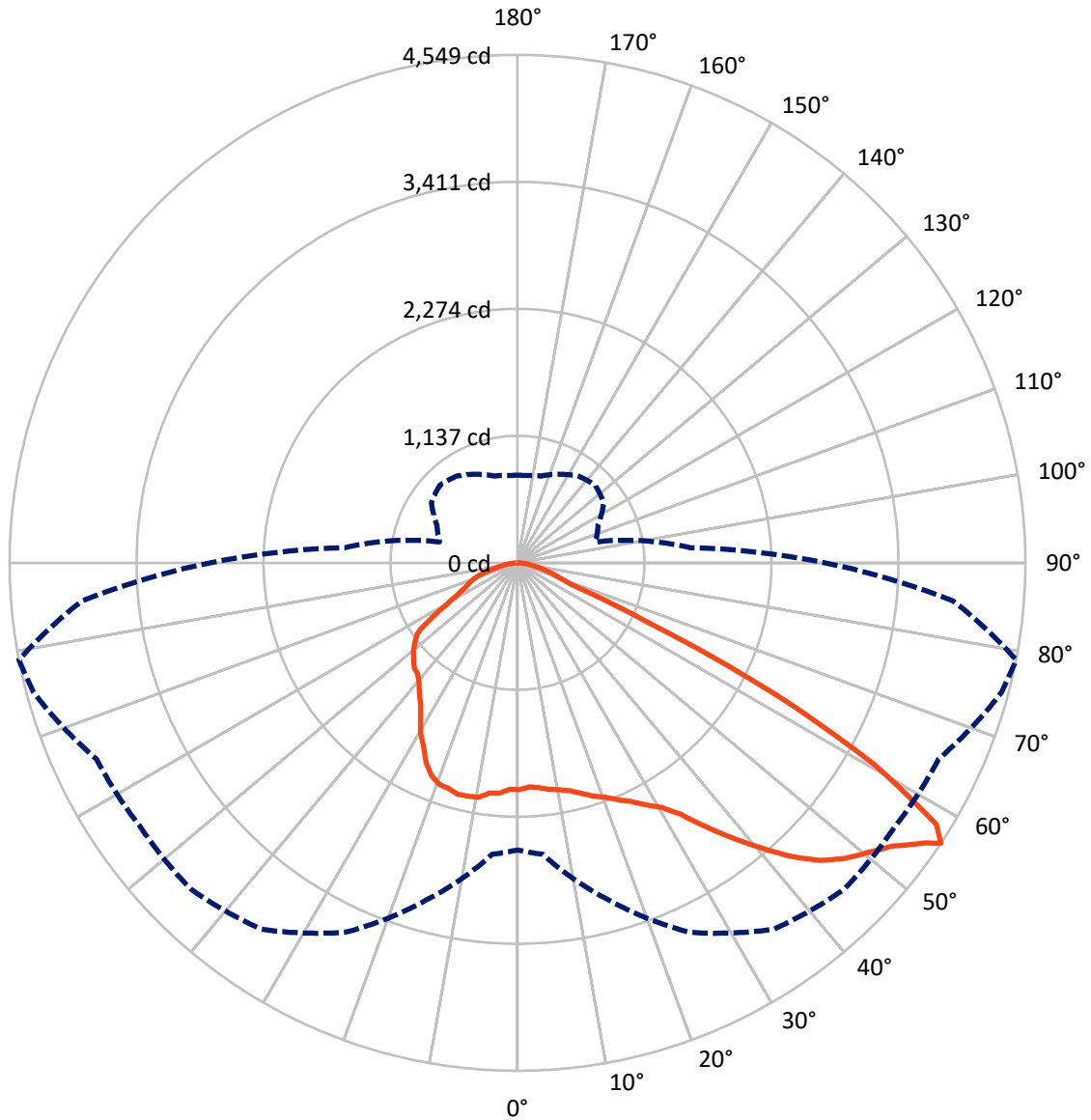
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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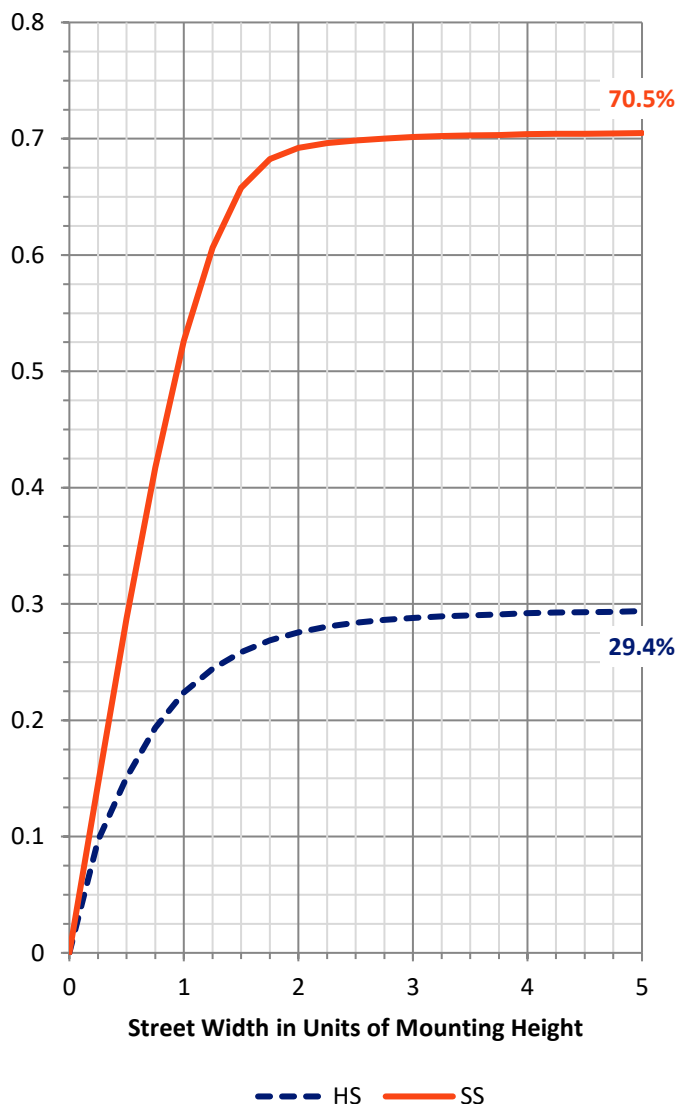
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2344.3 | 0.0 | 2344.3 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 5593.7 | 0.0 | 5593.7 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 7938.0 | 0.0 | 7938.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 184.7 | 2.3 |
| 10°-20° | 505.4 | 6.4 |
| 20°-30° | 864.6 | 10.9 |
| 30°-40° | 1325.1 | 16.7 |
| 40°-50° | 1790.8 | 22.6 |
| 50°-60° | 2056.8 | 25.9 |
| 60°-70° | 937.6 | 11.8 |
| 70°-80° | 231.2 | 2.9 |
| 80°-90° | 42.0 | 0.5 |
| 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° | 7938.0 | 100.0 |
| 0°-180° | 7938.0 | 100.0 |

Coefficient of Utilization

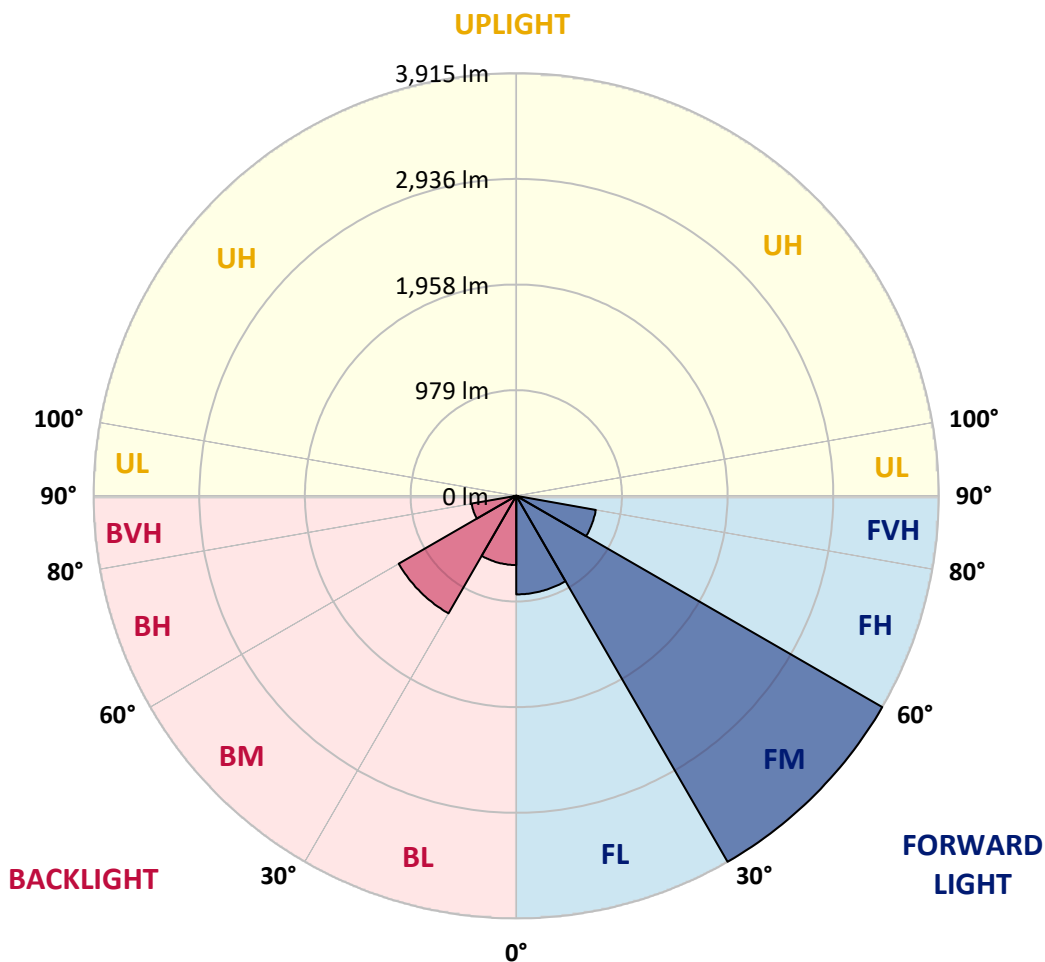


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 913.3 | 11.5 | | | |
| FM (30°-60°) | 3915.3 | 49.3 | | | |
| FH (60°-80°) | 748.4 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 16.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 641.3 | 8.1 | B2/1000 | | |
| BM (30°-60°) | 1257.4 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 420.3 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 |
| 2.5° | 1932.1 | 1927.2 | 1939.1 | 1948.0 | 1958.8 | 1972.7 | 1979.6 | 1983.6 | 2018.2 | 2009.3 | 2036.0 |
| 5° | 1890.6 | 1877.8 | 1886.7 | 1893.6 | 1912.4 | 1929.2 | 1948.0 | 1977.6 | 2009.3 | 2023.1 | 2055.7 |
| 7.5° | 1854.0 | 1847.1 | 1845.1 | 1850.1 | 1875.8 | 1897.5 | 1930.2 | 1973.7 | 2025.1 | 2047.8 | 2066.6 |
| 10° | 1793.7 | 1783.8 | 1798.6 | 1831.3 | 1838.2 | 1883.7 | 1921.3 | 1983.6 | 2028.1 | 2067.6 | 2123.0 |
| 12.5° | 1767.0 | 1757.1 | 1760.1 | 1778.9 | 1827.3 | 1870.8 | 1915.3 | 1985.5 | 2079.5 | 2095.3 | 2169.5 |
| 15° | 1809.5 | 1799.6 | 1802.6 | 1797.7 | 1844.1 | 1866.9 | 1937.1 | 2025.1 | 2115.1 | 2141.8 | 2220.9 |
| 17.5° | 1906.4 | 1907.4 | 1894.6 | 1883.7 | 1872.8 | 1921.3 | 1969.7 | 2048.8 | 2128.9 | 2196.2 | 2255.5 |
| 20° | 2091.3 | 2058.7 | 2033.0 | 1971.7 | 1954.9 | 1975.6 | 2037.0 | 2113.1 | 2185.3 | 2240.6 | 2307.9 |
| 22.5° | 2233.7 | 2236.7 | 2200.1 | 2099.2 | 2062.7 | 2071.6 | 2124.0 | 2186.3 | 2265.4 | 2304.9 | 2382.0 |
| 25° | 2440.4 | 2419.6 | 2380.1 | 2300.0 | 2217.9 | 2224.8 | 2263.4 | 2319.8 | 2341.5 | 2369.2 | 2453.2 |
| 27.5° | 2629.3 | 2635.2 | 2557.1 | 2481.9 | 2380.1 | 2360.3 | 2429.5 | 2439.4 | 2402.8 | 2455.2 | 2483.9 |
| 30° | 2821.1 | 2816.1 | 2764.7 | 2676.7 | 2576.8 | 2580.8 | 2611.5 | 2563.0 | 2512.6 | 2541.2 | 2561.0 |
| 32.5° | 3019.8 | 2963.5 | 2961.5 | 2882.4 | 2806.2 | 2769.7 | 2732.1 | 2755.8 | 2677.7 | 2683.6 | 2664.8 |
| 35° | 3179.0 | 3186.9 | 3141.5 | 3085.1 | 3047.5 | 2983.2 | 2880.4 | 2922.9 | 2908.1 | 2901.2 | 2820.1 |
| 37.5° | 3294.7 | 3264.1 | 3286.8 | 3268.0 | 3232.4 | 3152.3 | 3045.5 | 3086.1 | 3093.0 | 3126.6 | 3032.7 |
| 40° | 3389.6 | 3376.8 | 3437.1 | 3447.0 | 3422.3 | 3249.2 | 3057.4 | 3178.0 | 3281.9 | 3355.0 | 3243.3 |
| 42.5° | 3435.1 | 3462.8 | 3526.1 | 3602.2 | 3546.9 | 3362.0 | 3118.7 | 3248.2 | 3479.6 | 3595.3 | 3443.0 |
| 45° | 3496.4 | 3460.8 | 3554.8 | 3694.2 | 3695.2 | 3456.9 | 3178.0 | 3343.2 | 3633.9 | 3802.0 | 3579.5 |
| 47.5° | 3434.1 | 3451.9 | 3548.8 | 3725.8 | 3771.3 | 3556.8 | 3338.2 | 3477.7 | 3804.0 | 3953.3 | 3706.1 |
| 50° | 3294.7 | 3330.3 | 3507.3 | 3691.2 | 3828.7 | 3662.6 | 3522.1 | 3623.0 | 3961.2 | 4074.9 | 3726.8 |
| 52.5° | 3149.4 | 3169.1 | 3446.0 | 3717.9 | 3854.4 | 3799.0 | 3768.4 | 3823.7 | 4153.0 | 4212.3 | 3752.5 |
| 55° | 2753.8 | 2847.8 | 3243.3 | 3706.1 | 3980.0 | 4045.2 | 4021.5 | 4102.6 | 4370.5 | 4429.9 | 3893.0 |
| 56° | 2570.9 | 2620.4 | 3121.7 | 3650.7 | 4004.7 | 4135.2 | 4123.3 | 4159.9 | 4486.2 | 4548.5 | 3914.7 |
| 57.5° | 2232.7 | 2236.7 | 2661.9 | 3405.5 | 3911.7 | 4161.9 | 4150.0 | 4178.7 | 4463.5 | 4421.0 | 3723.9 |
| 60° | 1397.2 | 1458.5 | 1811.5 | 2619.4 | 3326.4 | 3861.3 | 3928.6 | 3698.2 | 3763.4 | 3673.4 | 2897.2 |
| 62.5° | 723.8 | 714.9 | 949.3 | 1531.7 | 2208.0 | 2764.7 | 2827.0 | 2816.1 | 2715.3 | 2583.8 | 1892.6 |
| 65° | 360.9 | 362.9 | 496.4 | 758.4 | 1131.2 | 1447.6 | 1621.7 | 1640.4 | 1372.5 | 1262.7 | 897.8 |
| 67.5° | 262.0 | 271.9 | 357.0 | 463.8 | 533.0 | 596.3 | 730.7 | 716.9 | 542.9 | 516.2 | 478.6 |
| 70° | 203.7 | 212.6 | 289.7 | 354.0 | 321.4 | 321.4 | 350.0 | 361.9 | 386.6 | 397.5 | 410.4 |
| 72.5° | 148.3 | 155.2 | 221.5 | 244.2 | 210.6 | 226.4 | 262.0 | 289.7 | 315.4 | 319.4 | 334.2 |
| 75° | 101.8 | 107.8 | 145.4 | 134.5 | 126.6 | 156.2 | 191.8 | 217.5 | 236.3 | 246.2 | 255.1 |
| 77.5° | 66.3 | 68.2 | 83.1 | 70.2 | 81.1 | 100.9 | 124.6 | 146.3 | 165.1 | 173.0 | 175.0 |
| 80° | 29.7 | 32.6 | 35.6 | 44.5 | 56.4 | 72.2 | 89.0 | 106.8 | 118.7 | 121.6 | 127.6 |
| 82.5° | 16.8 | 16.8 | 21.8 | 31.6 | 41.5 | 52.4 | 64.3 | 77.1 | 91.0 | 93.9 | 92.9 |
| 85° | 8.9 | 8.9 | 12.9 | 18.8 | 25.7 | 30.7 | 29.7 | 30.7 | 32.6 | 37.6 | 36.6 |
| 87.5° | 3.0 | 3.0 | 4.0 | 4.0 | 4.9 | 5.9 | 4.9 | 6.9 | 8.9 | 8.9 | 8.9 |
| 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-SA2B-830-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 | 2031.0 |
| 2.5° | 2028.1 | 2037.0 | 2025.1 | 2050.8 | 2050.8 | 2045.9 | 2021.1 | 2029.0 | 2035.0 | 2035.0 | 2039.9 |
| 5° | 2066.6 | 2063.7 | 2071.6 | 2040.9 | 2022.1 | 2015.2 | 1974.7 | 1954.9 | 1938.1 | 1937.1 | 1922.3 |
| 7.5° | 2088.4 | 2080.5 | 2077.5 | 2054.8 | 1971.7 | 1921.3 | 1834.2 | 1783.8 | 1772.9 | 1734.4 | 1749.2 |
| 10° | 2123.0 | 2137.8 | 2123.0 | 1999.4 | 1883.7 | 1768.0 | 1683.0 | 1604.8 | 1574.2 | 1549.5 | 1534.6 |
| 12.5° | 2194.2 | 2187.3 | 2101.2 | 1934.1 | 1772.0 | 1634.5 | 1507.9 | 1425.9 | 1395.2 | 1373.5 | 1371.5 |
| 15° | 2254.5 | 2219.9 | 2088.4 | 1831.3 | 1597.9 | 1451.6 | 1347.8 | 1289.4 | 1275.6 | 1277.5 | 1286.4 |
| 17.5° | 2275.3 | 2251.5 | 2021.1 | 1724.5 | 1468.4 | 1296.3 | 1247.9 | 1239.0 | 1251.8 | 1266.7 | 1270.6 |
| 20° | 2307.9 | 2270.3 | 1993.4 | 1579.1 | 1308.2 | 1199.4 | 1196.5 | 1228.1 | 1251.8 | 1273.6 | 1276.6 |
| 22.5° | 2376.1 | 2281.2 | 1903.5 | 1441.7 | 1198.4 | 1170.8 | 1199.4 | 1226.1 | 1262.7 | 1280.5 | 1264.7 |
| 25° | 2395.9 | 2257.5 | 1776.9 | 1276.6 | 1129.2 | 1153.0 | 1183.6 | 1220.2 | 1245.9 | 1255.8 | 1262.7 |
| 27.5° | 2412.7 | 2220.9 | 1605.8 | 1166.8 | 1107.5 | 1152.0 | 1183.6 | 1214.3 | 1228.1 | 1237.0 | 1244.9 |
| 30° | 2460.2 | 2210.0 | 1457.5 | 1093.6 | 1093.6 | 1132.2 | 1172.7 | 1180.6 | 1199.4 | 1210.3 | 1224.1 |
| 32.5° | 2483.9 | 2134.8 | 1305.2 | 1047.2 | 1079.8 | 1142.1 | 1145.0 | 1159.9 | 1160.9 | 1169.8 | 1154.9 |
| 35° | 2546.2 | 2081.4 | 1163.8 | 1013.5 | 1085.7 | 1132.2 | 1147.0 | 1138.1 | 1089.7 | 1065.9 | 1070.9 |
| 37.5° | 2591.7 | 2054.8 | 1062.0 | 1009.6 | 1086.7 | 1143.1 | 1151.0 | 1083.7 | 1033.3 | 993.8 | 1003.6 |
| 40° | 2714.3 | 1988.5 | 984.9 | 1002.7 | 1095.6 | 1154.9 | 1133.2 | 1060.0 | 969.0 | 928.5 | 921.6 |
| 42.5° | 2808.2 | 1941.0 | 936.4 | 994.7 | 1102.5 | 1171.7 | 1124.3 | 1012.5 | 919.6 | 882.0 | 891.9 |
| 45° | 2917.0 | 1930.2 | 910.7 | 996.7 | 1114.4 | 1180.6 | 1113.4 | 976.0 | 877.1 | 862.2 | 859.3 |
| 47.5° | 2955.6 | 1852.0 | 883.0 | 979.9 | 1111.4 | 1177.7 | 1076.8 | 948.3 | 861.3 | 863.2 | 871.1 |
| 50° | 2891.3 | 1772.0 | 862.2 | 945.3 | 1091.6 | 1151.0 | 1019.5 | 911.7 | 852.4 | 877.1 | 890.9 |
| 52.5° | 2809.2 | 1689.9 | 819.7 | 898.8 | 1051.1 | 1109.4 | 992.8 | 909.7 | 843.5 | 835.5 | 838.5 |
| 55° | 2833.9 | 1622.6 | 760.4 | 835.5 | 985.8 | 1032.3 | 963.1 | 890.9 | 821.7 | 792.0 | 801.9 |
| 56° | 2753.8 | 1553.4 | 721.8 | 796.0 | 941.3 | 982.9 | 948.3 | 874.1 | 803.9 | 784.1 | 784.1 |
| 57.5° | 2527.4 | 1321.1 | 671.4 | 732.7 | 847.4 | 896.9 | 919.6 | 864.2 | 784.1 | 749.5 | 750.5 |
| 60° | 1863.9 | 939.4 | 602.2 | 645.7 | 702.1 | 741.6 | 847.4 | 836.5 | 734.7 | 711.0 | 702.1 |
| 62.5° | 1149.0 | 686.2 | 552.7 | 569.6 | 598.2 | 630.9 | 739.6 | 757.4 | 682.3 | 656.6 | 650.6 |
| 65° | 643.7 | 525.1 | 515.2 | 522.1 | 535.9 | 552.7 | 614.1 | 653.6 | 602.2 | 562.6 | 560.7 |
| 67.5° | 470.7 | 469.7 | 477.6 | 483.5 | 489.5 | 489.5 | 504.3 | 520.1 | 513.2 | 481.6 | 478.6 |
| 70° | 418.3 | 421.2 | 427.2 | 428.2 | 430.1 | 423.2 | 411.3 | 406.4 | 414.3 | 394.5 | 390.6 |
| 72.5° | 345.1 | 355.0 | 361.9 | 362.9 | 352.0 | 343.1 | 327.3 | 310.5 | 304.6 | 300.6 | 299.6 |
| 75° | 265.0 | 271.9 | 274.9 | 273.9 | 269.9 | 257.1 | 238.3 | 221.5 | 210.6 | 198.8 | 204.7 |
| 77.5° | 179.0 | 188.9 | 193.8 | 193.8 | 187.9 | 168.1 | 159.2 | 146.3 | 135.5 | 122.6 | 124.6 |
| 80° | 125.6 | 132.5 | 140.4 | 139.4 | 129.5 | 119.6 | 106.8 | 94.9 | 86.0 | 76.1 | 75.1 |
| 82.5° | 93.9 | 97.9 | 101.8 | 99.9 | 92.9 | 83.1 | 74.2 | 63.3 | 53.4 | 46.5 | 46.5 |
| 85° | 33.6 | 36.6 | 44.5 | 46.5 | 50.4 | 50.4 | 42.5 | 35.6 | 28.7 | 23.7 | 23.7 |
| 87.5° | 9.9 | 9.9 | 10.9 | 10.9 | 9.9 | 10.9 | 8.9 | 9.9 | 10.9 | 6.9 | 6.9 |
| 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)