

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: P527169

Luminaire Tested: **GLAN-SA2A-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4040 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

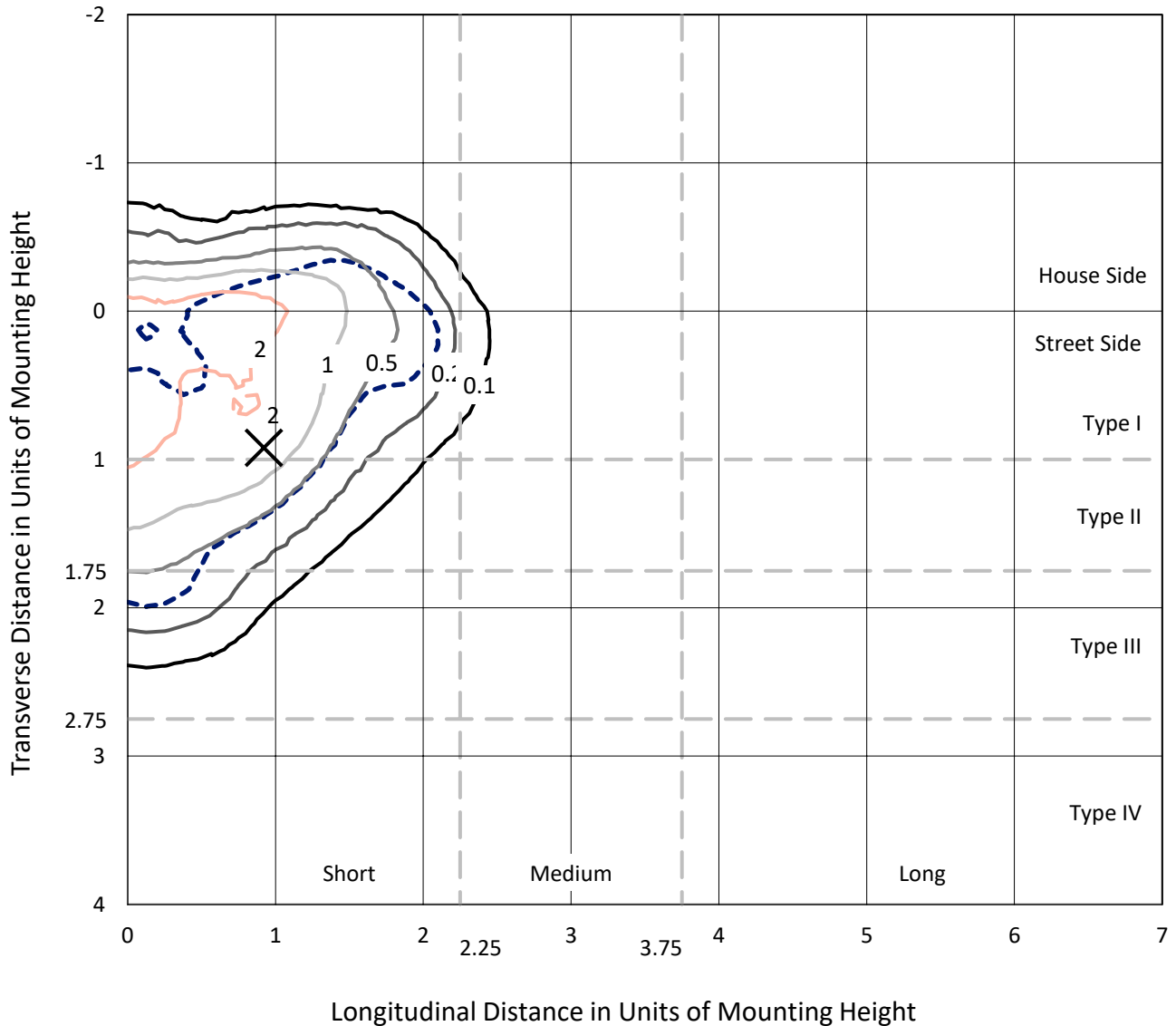
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

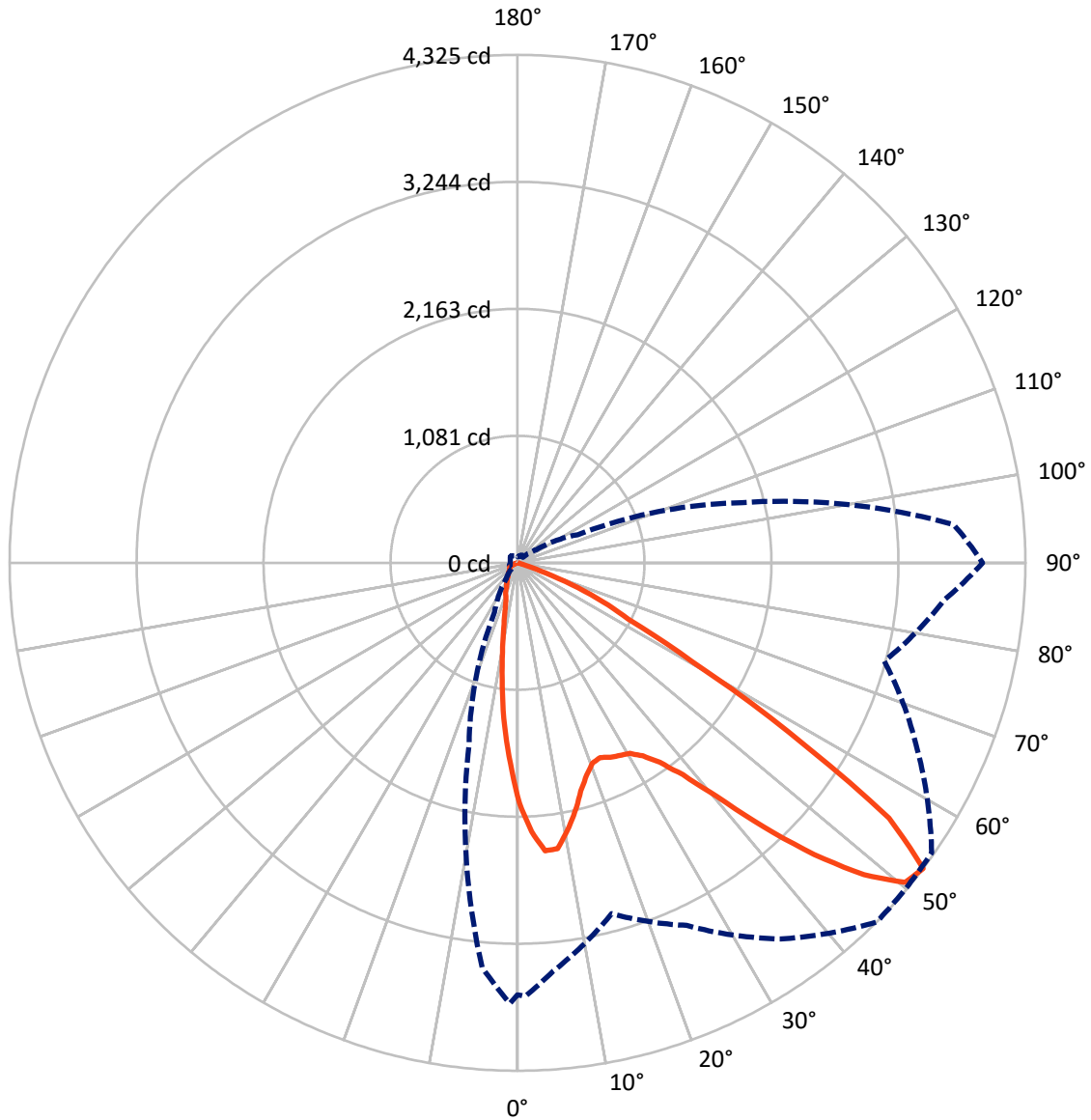
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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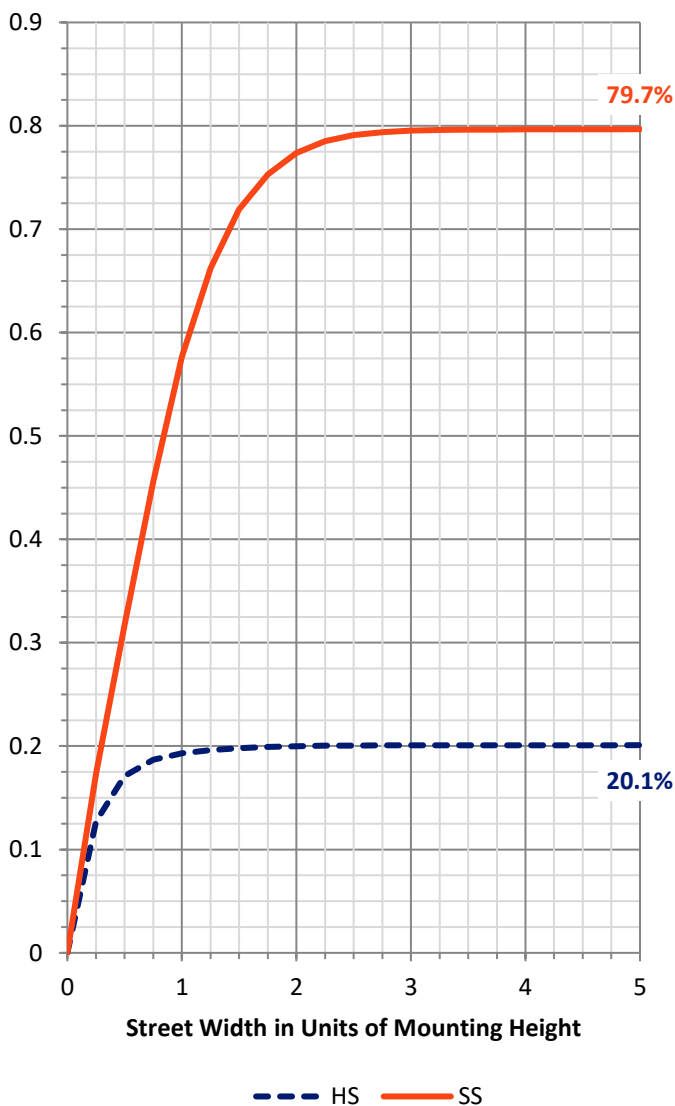
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 819.9 | 0.0 | 819.9 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 3220.1 | 0.0 | 3220.1 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 4040.0 | 0.0 | 4040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.4 | 3.7 |
| 10°-20° | 294.7 | 7.3 |
| 20°-30° | 448.6 | 11.1 |
| 30°-40° | 670.4 | 16.6 |
| 40°-50° | 954.7 | 23.6 |
| 50°-60° | 1026.3 | 25.4 |
| 60°-70° | 454.8 | 11.3 |
| 70°-80° | 36.8 | 0.9 |
| 80°-90° | 4.3 | 0.1 |
| 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° | 4040.0 | 100.0 |
| 0°-180° | 4040.0 | 100.0 |

Coefficient of Utilization

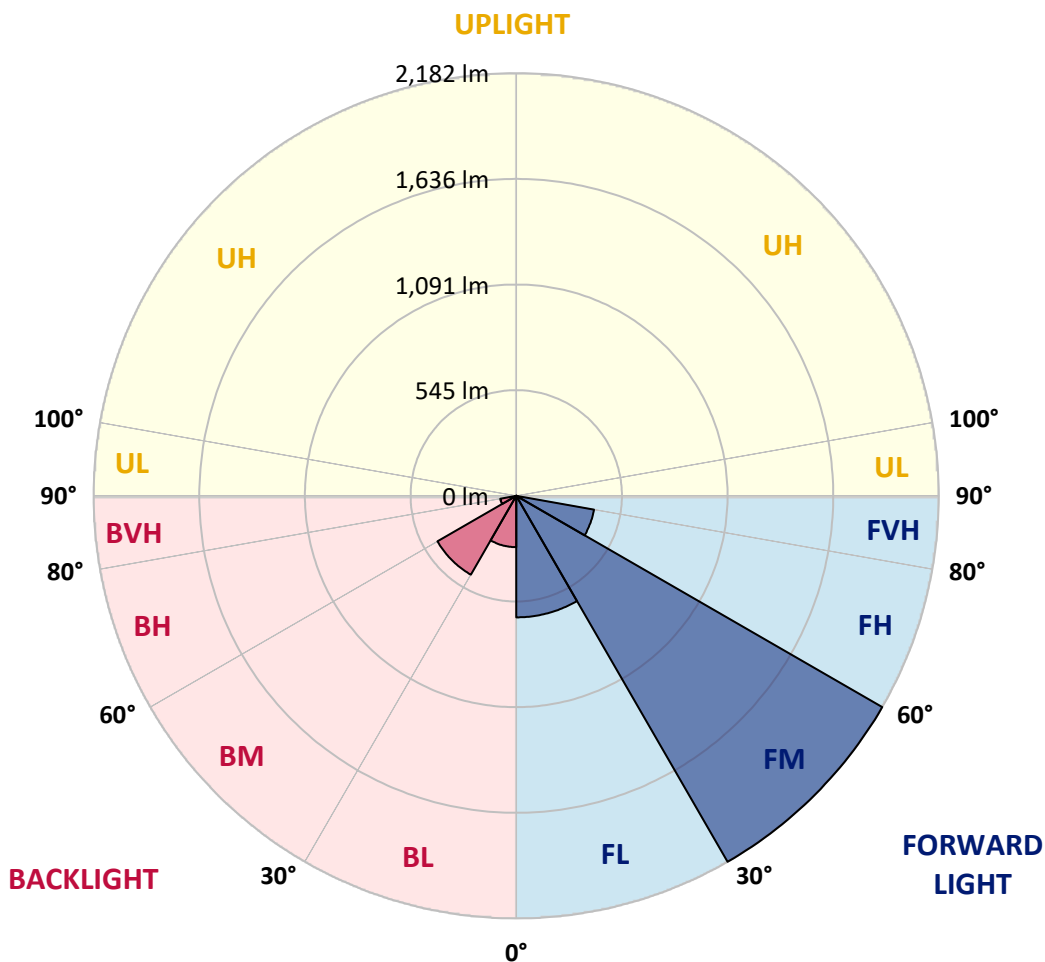


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 627.5 | 15.5 | | | |
| FM (30°-60°) | 2181.7 | 54.0 | | | |
| FH (60°-80°) | 407.7 | 10.1 | | | G0/660 |
| FVH (80°-90°) | 3.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 265.2 | 6.6 | B1/500 | | |
| BM (30°-60°) | 469.7 | 11.6 | B1/1000 | | |
| BH (60°-80°) | 83.9 | 2.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type III Short





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CATALOG NUMBER: GLAN-SA2A-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 |
| 2.5° | 2167.7 | 2174.0 | 2209.0 | 2252.7 | 2275.7 | 2328.2 | 2291.6 | 2301.1 | 2281.3 | 2211.4 | 2156.5 |
| 5° | 2101.7 | 2100.9 | 2145.4 | 2253.5 | 2356.0 | 2460.1 | 2463.2 | 2407.6 | 2309.9 | 2202.6 | 2049.3 |
| 7.5° | 1903.1 | 1934.0 | 1980.1 | 2152.6 | 2342.5 | 2420.3 | 2457.7 | 2392.5 | 2242.3 | 2089.0 | 1922.9 |
| 10° | 1752.9 | 1768.8 | 1846.6 | 2054.8 | 2193.9 | 2298.0 | 2321.0 | 2283.7 | 2168.5 | 1977.0 | 1791.0 |
| 12.5° | 1666.3 | 1674.2 | 1765.6 | 1940.4 | 2087.4 | 2164.5 | 2175.6 | 2193.1 | 2110.4 | 1930.9 | 1707.6 |
| 15° | 1667.1 | 1673.4 | 1796.6 | 1942.8 | 2000.8 | 1980.1 | 2016.7 | 2015.9 | 2051.6 | 1922.1 | 1777.5 |
| 17.5° | 1787.0 | 1794.2 | 1905.4 | 1977.7 | 1952.3 | 1903.9 | 1901.5 | 1938.0 | 2013.5 | 2031.0 | 1883.2 |
| 20° | 1993.6 | 2010.3 | 2092.2 | 2088.2 | 1945.2 | 1847.4 | 1820.4 | 1848.2 | 2023.8 | 2123.2 | 2096.1 |
| 22.5° | 2271.7 | 2294.8 | 2352.0 | 2242.3 | 1977.7 | 1809.3 | 1800.6 | 1854.6 | 2092.2 | 2329.0 | 2337.7 |
| 25° | 2594.4 | 2633.3 | 2661.1 | 2520.5 | 2093.8 | 1875.2 | 1833.9 | 1926.9 | 2184.3 | 2552.2 | 2645.2 |
| 27.5° | 2808.1 | 2848.6 | 2842.3 | 2641.2 | 2171.6 | 1892.7 | 1857.8 | 1944.4 | 2264.6 | 2605.5 | 2805.7 |
| 30° | 2975.0 | 2999.6 | 3044.1 | 2706.4 | 2249.5 | 1942.0 | 1882.4 | 2018.3 | 2290.8 | 2697.7 | 2999.6 |
| 32.5° | 3169.6 | 3186.3 | 3189.5 | 2821.6 | 2369.5 | 2004.0 | 1958.7 | 2110.4 | 2406.8 | 2785.9 | 3171.2 |
| 35° | 3365.9 | 3390.5 | 3338.9 | 2963.8 | 2443.4 | 2119.2 | 2085.8 | 2270.2 | 2499.8 | 2877.2 | 3360.3 |
| 37.5° | 3578.9 | 3591.6 | 3472.4 | 3022.6 | 2549.1 | 2306.7 | 2288.4 | 2442.6 | 2661.1 | 3042.5 | 3570.1 |
| 40° | 3757.6 | 3769.6 | 3614.6 | 3095.0 | 2660.3 | 2568.9 | 2615.8 | 2771.5 | 2880.4 | 3149.8 | 3675.0 |
| 42.5° | 3857.0 | 3884.8 | 3662.3 | 3055.2 | 2883.6 | 2866.1 | 3074.3 | 3129.1 | 3134.7 | 3180.0 | 3768.8 |
| 45° | 3884.0 | 3871.3 | 3583.6 | 3087.8 | 3079.1 | 3354.8 | 3543.9 | 3616.2 | 3387.4 | 3235.6 | 3792.6 |
| 47.5° | 3759.2 | 3775.9 | 3467.6 | 3059.2 | 3335.7 | 3725.1 | 3969.8 | 4104.1 | 3575.7 | 3187.1 | 3733.8 |
| 50° | 3658.3 | 3636.9 | 3430.3 | 3038.5 | 3404.8 | 3899.9 | 4277.3 | 4307.5 | 3748.9 | 3246.7 | 3669.4 |
| 52.5° | 3678.2 | 3691.7 | 3489.9 | 3093.4 | 3406.4 | 3910.2 | 4325.0 | 4304.3 | 3754.5 | 3233.2 | 3646.4 |
| 55° | 3720.3 | 3660.7 | 3464.4 | 2972.6 | 3178.4 | 3621.8 | 3838.7 | 3806.9 | 3465.2 | 3089.4 | 3590.0 |
| 57.5° | 3210.2 | 3302.3 | 3185.5 | 2653.9 | 2608.7 | 2728.6 | 2724.7 | 2822.4 | 2584.8 | 2658.7 | 3268.2 |
| 60° | 2605.5 | 2621.4 | 2665.1 | 2270.2 | 1805.3 | 1764.0 | 1706.8 | 1644.8 | 1739.4 | 2273.3 | 2972.6 |
| 62.5° | 2291.6 | 2272.5 | 2428.3 | 2065.2 | 1274.5 | 1067.1 | 1057.6 | 1095.7 | 1342.1 | 2168.5 | 2788.2 |
| 65° | 1665.5 | 1689.3 | 1802.1 | 1602.7 | 956.7 | 814.5 | 800.2 | 913.0 | 1086.2 | 1737.8 | 2127.9 |
| 67.5° | 1017.1 | 1063.2 | 1073.5 | 988.5 | 649.2 | 515.7 | 495.0 | 597.5 | 784.3 | 1124.4 | 1247.5 |
| 70° | 469.6 | 525.2 | 577.7 | 539.5 | 375.8 | 212.2 | 200.2 | 251.1 | 395.7 | 646.8 | 661.9 |
| 72.5° | 142.2 | 143.0 | 200.2 | 209.0 | 121.6 | 47.7 | 42.1 | 55.6 | 134.3 | 213.7 | 224.9 |
| 75° | 10.3 | 11.1 | 27.0 | 31.0 | 23.0 | 11.9 | 12.7 | 15.1 | 28.6 | 47.7 | 35.8 |
| 77.5° | 0.8 | 0.8 | 0.8 | 4.0 | 7.2 | 7.9 | 10.3 | 11.9 | 15.1 | 17.5 | 15.9 |
| 80° | 0.8 | 0.0 | 0.8 | 3.2 | 5.6 | 7.9 | 9.5 | 11.1 | 11.9 | 13.5 | 11.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 2.4 | 5.6 | 7.9 | 8.7 | 11.9 | 13.5 | 15.9 | 13.5 |
| 85° | 0.0 | 0.0 | 0.0 | 2.4 | 5.6 | 8.7 | 7.9 | 4.0 | 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: GLAN-SA2A-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 |
| 2.5° | 2166.1 | 2135.1 | 2064.4 | 2028.6 | 1944.4 | 1932.5 | 1849.8 | 1836.3 | 1808.5 | 1793.4 | 1756.9 |
| 5° | 1981.7 | 1944.4 | 1829.2 | 1732.2 | 1619.4 | 1540.7 | 1480.3 | 1425.5 | 1393.7 | 1364.3 | 1377.8 |
| 7.5° | 1831.5 | 1722.7 | 1594.8 | 1432.7 | 1302.3 | 1218.1 | 1125.9 | 1050.5 | 1006.0 | 975.8 | 982.9 |
| 10° | 1674.2 | 1603.5 | 1425.5 | 1243.5 | 1086.2 | 1026.6 | 954.3 | 896.3 | 833.5 | 779.5 | 754.1 |
| 12.5° | 1624.9 | 1520.1 | 1296.8 | 1111.6 | 992.5 | 934.4 | 851.8 | 785.1 | 704.8 | 638.9 | 615.8 |
| 15° | 1633.7 | 1532.8 | 1261.8 | 1064.0 | 923.3 | 823.2 | 724.7 | 642.0 | 553.8 | 507.7 | 483.9 |
| 17.5° | 1775.9 | 1601.1 | 1284.9 | 1013.9 | 827.2 | 688.1 | 566.5 | 461.7 | 395.7 | 348.0 | 337.7 |
| 20° | 1950.7 | 1748.9 | 1334.1 | 977.4 | 748.5 | 547.5 | 414.0 | 323.4 | 268.6 | 260.6 | 258.2 |
| 22.5° | 2206.6 | 1990.5 | 1439.8 | 952.7 | 652.4 | 426.7 | 283.7 | 235.2 | 220.1 | 218.5 | 219.3 |
| 25° | 2564.2 | 2293.2 | 1555.0 | 932.1 | 580.1 | 329.0 | 232.0 | 199.4 | 194.7 | 192.3 | 196.3 |
| 27.5° | 2719.1 | 2476.0 | 1616.2 | 887.6 | 514.1 | 296.4 | 228.8 | 197.9 | 184.3 | 180.4 | 182.8 |
| 30° | 2910.6 | 2597.5 | 1712.4 | 811.3 | 417.2 | 243.9 | 213.7 | 215.3 | 209.0 | 189.1 | 182.8 |
| 32.5° | 3164.9 | 2749.3 | 1760.8 | 757.2 | 372.7 | 201.8 | 156.5 | 143.8 | 160.5 | 163.7 | 169.2 |
| 35° | 3327.8 | 2903.5 | 1785.5 | 725.5 | 349.6 | 172.4 | 132.7 | 120.8 | 116.8 | 117.6 | 120.8 |
| 37.5° | 3630.5 | 3111.6 | 1816.4 | 692.1 | 332.1 | 150.2 | 120.0 | 108.9 | 103.3 | 103.3 | 106.5 |
| 40° | 3811.7 | 3276.9 | 1858.6 | 673.8 | 314.7 | 136.7 | 108.9 | 99.3 | 94.6 | 94.6 | 96.1 |
| 42.5° | 3857.0 | 3358.8 | 1844.3 | 667.5 | 294.8 | 133.5 | 99.3 | 92.2 | 86.6 | 85.8 | 85.0 |
| 45° | 3938.0 | 3483.5 | 1846.6 | 660.3 | 274.1 | 121.6 | 93.8 | 85.8 | 77.9 | 77.1 | 76.3 |
| 47.5° | 4027.0 | 3573.3 | 1851.4 | 632.5 | 254.3 | 101.7 | 97.7 | 79.5 | 69.9 | 68.3 | 68.3 |
| 50° | 3950.7 | 3644.8 | 1892.7 | 604.7 | 228.8 | 82.6 | 96.1 | 74.7 | 62.0 | 59.6 | 60.4 |
| 52.5° | 3960.3 | 3729.0 | 1980.1 | 565.8 | 197.1 | 66.0 | 77.9 | 70.7 | 56.4 | 52.4 | 53.2 |
| 55° | 3807.7 | 3640.0 | 1992.1 | 524.4 | 154.2 | 50.9 | 59.6 | 62.0 | 47.7 | 46.1 | 46.1 |
| 57.5° | 3277.7 | 3082.2 | 1757.6 | 425.1 | 101.7 | 42.1 | 42.9 | 54.0 | 41.3 | 39.7 | 40.5 |
| 60° | 2804.9 | 2474.4 | 1414.4 | 280.5 | 63.6 | 33.4 | 31.0 | 54.8 | 36.6 | 35.8 | 38.1 |
| 62.5° | 2557.0 | 2033.4 | 1072.7 | 174.0 | 43.7 | 25.4 | 21.5 | 44.5 | 31.8 | 31.8 | 35.0 |
| 65° | 1847.4 | 1365.9 | 623.8 | 91.4 | 31.0 | 19.9 | 15.9 | 25.4 | 26.2 | 27.0 | 28.6 |
| 67.5° | 1144.2 | 689.7 | 263.0 | 44.5 | 20.7 | 13.5 | 10.3 | 15.9 | 17.5 | 17.5 | 19.1 |
| 70° | 565.0 | 274.9 | 87.4 | 25.4 | 15.9 | 11.1 | 7.2 | 8.7 | 8.7 | 7.9 | 8.7 |
| 72.5° | 174.8 | 82.6 | 22.2 | 15.9 | 11.1 | 7.2 | 4.0 | 3.2 | 1.6 | 0.0 | 0.8 |
| 75° | 19.9 | 15.9 | 14.3 | 11.1 | 7.2 | 3.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 11.9 | 13.5 | 13.5 | 11.1 | 7.2 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 9.5 | 10.3 | 11.1 | 10.3 | 6.4 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 11.9 | 13.5 | 15.1 | 13.5 | 8.7 | 4.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.8 | 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: GLAN-SA2A-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 | 2048.5 |
| 2.5° | 1741.8 | 1724.3 | 1748.9 | 1712.4 | 1711.6 | 1712.4 | 1702.0 | 1692.5 | 1707.6 | 1748.1 | 1752.1 |
| 5° | 1329.4 | 1366.7 | 1378.6 | 1417.6 | 1396.1 | 1364.3 | 1370.7 | 1349.2 | 1401.7 | 1424.7 | 1406.4 |
| 7.5° | 967.8 | 965.4 | 1045.7 | 1050.5 | 1060.8 | 1061.6 | 1060.0 | 1017.9 | 975.0 | 984.5 | 1013.1 |
| 10° | 750.9 | 710.4 | 749.3 | 745.3 | 770.8 | 763.6 | 773.9 | 728.6 | 743.7 | 743.7 | 762.0 |
| 12.5° | 611.8 | 568.9 | 561.8 | 551.4 | 561.8 | 565.8 | 569.7 | 561.0 | 586.4 | 598.3 | 611.0 |
| 15° | 467.2 | 443.4 | 437.0 | 417.2 | 420.3 | 431.5 | 441.0 | 445.0 | 437.0 | 455.3 | 456.9 |
| 17.5° | 339.3 | 338.5 | 342.5 | 341.7 | 338.5 | 336.1 | 335.3 | 325.0 | 321.8 | 323.4 | 329.8 |
| 20° | 257.4 | 263.8 | 277.3 | 290.8 | 298.0 | 289.2 | 277.3 | 259.8 | 252.7 | 254.3 | 255.1 |
| 22.5° | 220.1 | 229.6 | 247.9 | 263.0 | 270.2 | 254.3 | 232.8 | 217.7 | 214.5 | 213.7 | 213.0 |
| 25° | 199.4 | 210.6 | 224.1 | 228.8 | 228.0 | 218.5 | 202.6 | 196.3 | 194.7 | 193.1 | 185.9 |
| 27.5° | 188.3 | 192.3 | 194.7 | 200.2 | 202.6 | 196.3 | 192.3 | 182.8 | 181.2 | 181.2 | 176.4 |
| 30° | 182.0 | 179.6 | 182.8 | 178.8 | 182.0 | 177.2 | 178.0 | 178.0 | 174.0 | 175.6 | 175.6 |
| 32.5° | 169.2 | 170.0 | 170.0 | 162.1 | 164.5 | 158.9 | 164.5 | 169.2 | 170.0 | 170.8 | 177.2 |
| 35° | 124.0 | 138.3 | 145.4 | 145.4 | 147.8 | 143.8 | 143.0 | 137.5 | 130.3 | 123.2 | 120.0 |
| 37.5° | 108.9 | 114.4 | 124.0 | 129.5 | 133.5 | 130.3 | 123.2 | 114.4 | 110.4 | 107.3 | 104.1 |
| 40° | 96.9 | 101.7 | 108.1 | 114.4 | 122.4 | 118.4 | 107.3 | 103.3 | 98.5 | 98.5 | 95.4 |
| 42.5° | 87.4 | 89.8 | 93.8 | 103.3 | 112.0 | 104.1 | 96.1 | 93.0 | 90.6 | 89.8 | 89.0 |
| 45° | 78.7 | 79.5 | 83.4 | 91.4 | 101.7 | 93.8 | 85.8 | 81.8 | 82.6 | 83.4 | 82.6 |
| 47.5° | 70.7 | 72.3 | 74.7 | 84.2 | 90.6 | 86.6 | 77.9 | 75.5 | 75.5 | 75.5 | 76.3 |
| 50° | 61.2 | 65.2 | 69.9 | 77.9 | 82.6 | 80.3 | 73.1 | 69.9 | 68.3 | 68.3 | 69.1 |
| 52.5° | 54.8 | 58.0 | 64.4 | 73.9 | 80.3 | 76.3 | 69.1 | 64.4 | 61.2 | 60.4 | 62.0 |
| 55° | 47.7 | 53.2 | 63.6 | 70.7 | 79.5 | 75.5 | 67.5 | 62.0 | 56.4 | 55.6 | 55.6 |
| 57.5° | 42.9 | 51.6 | 61.2 | 69.9 | 77.1 | 73.9 | 67.5 | 60.4 | 53.2 | 52.4 | 52.4 |
| 60° | 40.5 | 50.1 | 59.6 | 67.5 | 77.1 | 72.3 | 66.7 | 58.8 | 50.9 | 50.9 | 50.1 |
| 62.5° | 38.1 | 46.9 | 56.4 | 64.4 | 73.9 | 69.9 | 64.4 | 56.4 | 48.5 | 48.5 | 46.9 |
| 65° | 31.8 | 40.5 | 46.9 | 54.0 | 64.4 | 60.4 | 54.8 | 49.3 | 42.9 | 41.3 | 42.1 |
| 67.5° | 22.2 | 27.8 | 34.2 | 41.3 | 47.7 | 46.1 | 43.7 | 39.7 | 34.2 | 33.4 | 32.6 |
| 70° | 11.1 | 15.1 | 20.7 | 27.8 | 33.4 | 31.8 | 30.2 | 27.0 | 23.8 | 23.0 | 23.0 |
| 72.5° | 1.6 | 4.8 | 8.7 | 12.7 | 17.5 | 18.3 | 17.5 | 16.7 | 15.9 | 15.1 | 15.9 |
| 75° | 0.0 | 0.0 | 0.0 | 3.2 | 7.2 | 8.7 | 10.3 | 11.9 | 11.9 | 10.3 | 12.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 4.0 | 7.9 | 10.3 | 12.7 | 11.1 | 15.1 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 4.8 | 7.9 | 11.1 | 12.7 | 11.1 | 15.9 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 5.6 | 7.9 | 10.3 | 11.9 | 11.1 | 14.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 4.8 | 3.2 | 1.6 | 0.8 | 0.8 | 2.4 |
| 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° | 1774.3 | 1830.7 | 1891.1 | 1914.2 | 1985.7 | 2039.7 | 2076.3 | 2154.9 | 2166.9 | 2167.7 |
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| 12.5° | 656.3 | 746.9 | 835.9 | 933.6 | 1017.9 | 1117.2 | 1305.5 | 1534.4 | 1617.0 | 1666.3 |
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| 27.5° | 178.0 | 179.6 | 200.2 | 282.9 | 473.6 | 808.9 | 1485.9 | 2437.8 | 2757.2 | 2808.1 |
| 30° | 187.5 | 213.0 | 214.5 | 239.2 | 402.9 | 725.5 | 1507.3 | 2624.5 | 2937.6 | 2975.0 |
| 32.5° | 162.1 | 154.2 | 159.7 | 185.1 | 354.4 | 677.0 | 1547.9 | 2787.4 | 3143.4 | 3169.6 |
| 35° | 112.8 | 118.4 | 131.1 | 160.5 | 309.9 | 626.1 | 1558.2 | 2967.0 | 3338.9 | 3365.9 |
| 37.5° | 104.1 | 107.3 | 117.6 | 136.7 | 272.5 | 597.5 | 1543.9 | 3098.1 | 3541.5 | 3578.9 |
| 40° | 96.9 | 100.9 | 106.5 | 124.0 | 244.7 | 565.8 | 1524.0 | 3216.5 | 3665.5 | 3757.6 |
| 42.5° | 91.4 | 94.6 | 99.3 | 118.4 | 220.9 | 534.0 | 1496.2 | 3383.4 | 3776.7 | 3857.0 |
| 45° | 85.0 | 89.8 | 95.4 | 115.2 | 207.4 | 512.5 | 1475.6 | 3373.1 | 3841.1 | 3884.0 |
| 47.5° | 78.7 | 86.6 | 93.0 | 107.3 | 203.4 | 502.2 | 1484.3 | 3334.1 | 3788.6 | 3759.2 |
| 50° | 72.3 | 82.6 | 93.8 | 89.0 | 193.9 | 481.5 | 1494.6 | 3387.4 | 3663.9 | 3658.3 |
| 52.5° | 66.7 | 78.7 | 87.4 | 73.1 | 172.4 | 461.7 | 1594.8 | 3457.3 | 3752.1 | 3678.2 |
| 55° | 58.8 | 70.7 | 69.9 | 58.8 | 139.8 | 446.6 | 1673.4 | 3458.9 | 3692.5 | 3720.3 |
| 57.5° | 53.2 | 62.8 | 54.8 | 49.3 | 103.3 | 373.5 | 1545.5 | 2900.3 | 3160.9 | 3210.2 |
| 60° | 49.3 | 61.2 | 41.3 | 38.9 | 67.5 | 269.4 | 1349.2 | 2246.3 | 2512.5 | 2605.5 |
| 62.5° | 45.3 | 58.0 | 32.6 | 31.8 | 46.9 | 191.5 | 1109.3 | 1880.0 | 2165.3 | 2291.6 |
| 65° | 39.7 | 41.3 | 26.2 | 24.6 | 33.4 | 103.3 | 675.4 | 1294.4 | 1618.6 | 1665.5 |
| 67.5° | 32.6 | 31.8 | 21.5 | 19.9 | 22.2 | 50.1 | 298.0 | 648.4 | 938.4 | 1017.1 |
| 70° | 26.2 | 26.2 | 18.3 | 15.9 | 15.9 | 23.0 | 77.9 | 258.2 | 424.3 | 469.6 |
| 72.5° | 19.1 | 19.9 | 14.3 | 12.7 | 11.9 | 11.1 | 12.7 | 51.6 | 111.2 | 142.2 |
| 75° | 16.7 | 17.5 | 14.3 | 11.1 | 8.7 | 7.2 | 5.6 | 4.8 | 6.4 | 10.3 |
| 77.5° | 18.3 | 18.3 | 15.1 | 10.3 | 7.9 | 5.6 | 3.2 | 1.6 | 1.6 | 0.8 |
| 80° | 23.0 | 23.8 | 19.9 | 13.5 | 9.5 | 6.4 | 4.0 | 1.6 | 0.8 | 0.8 |
| 82.5° | 24.6 | 27.0 | 22.2 | 16.7 | 11.9 | 7.2 | 4.0 | 0.8 | 0.0 | 0.0 |
| 85° | 6.4 | 10.3 | 17.5 | 15.1 | 11.9 | 7.2 | 4.0 | 0.8 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.8 | 2.4 | 2.4 | 3.2 | 3.2 | 2.4 | 0.8 | 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 |

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