

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: P451537

Luminaire Tested: **GLAN-SA2B-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7838 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

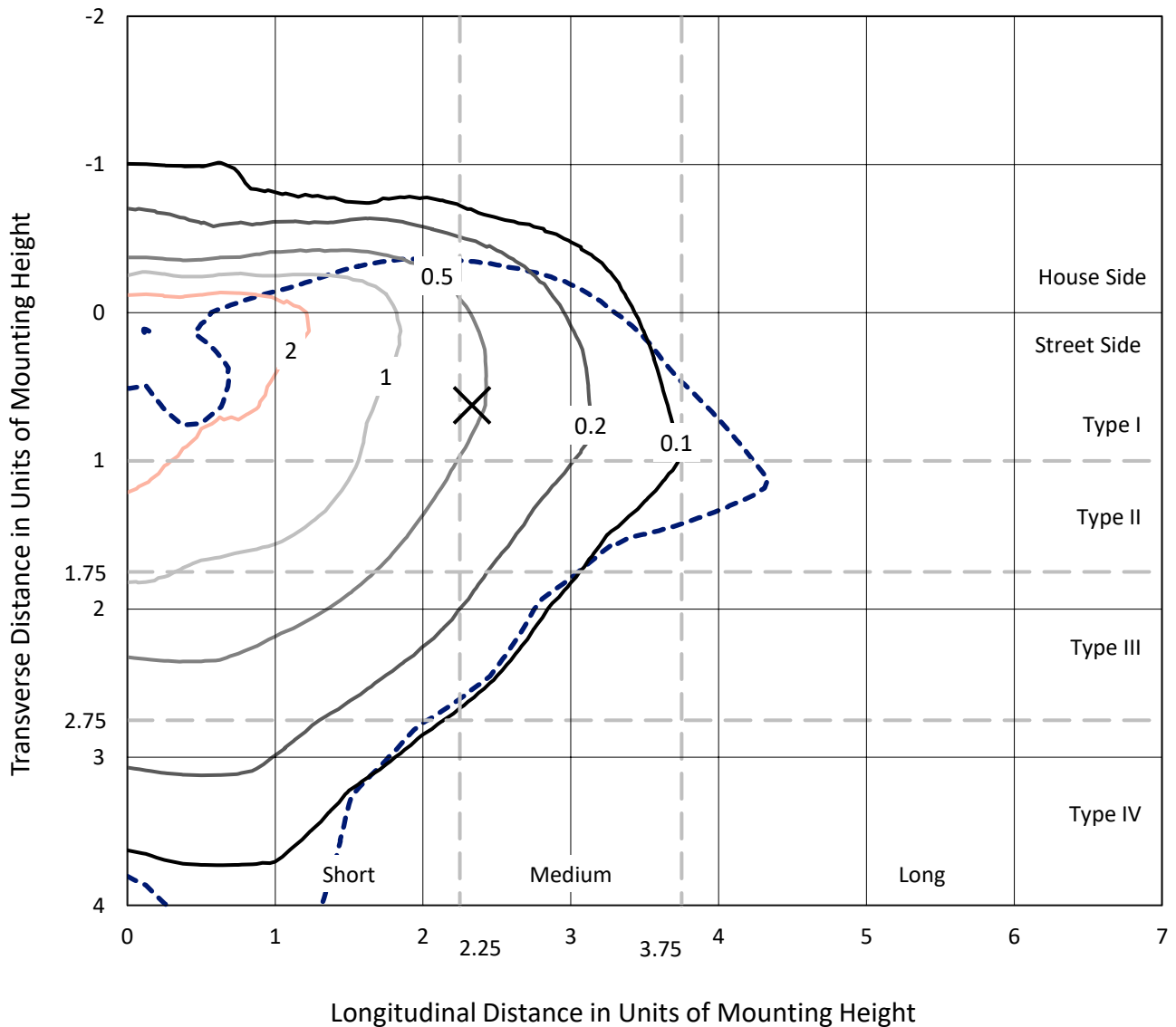
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

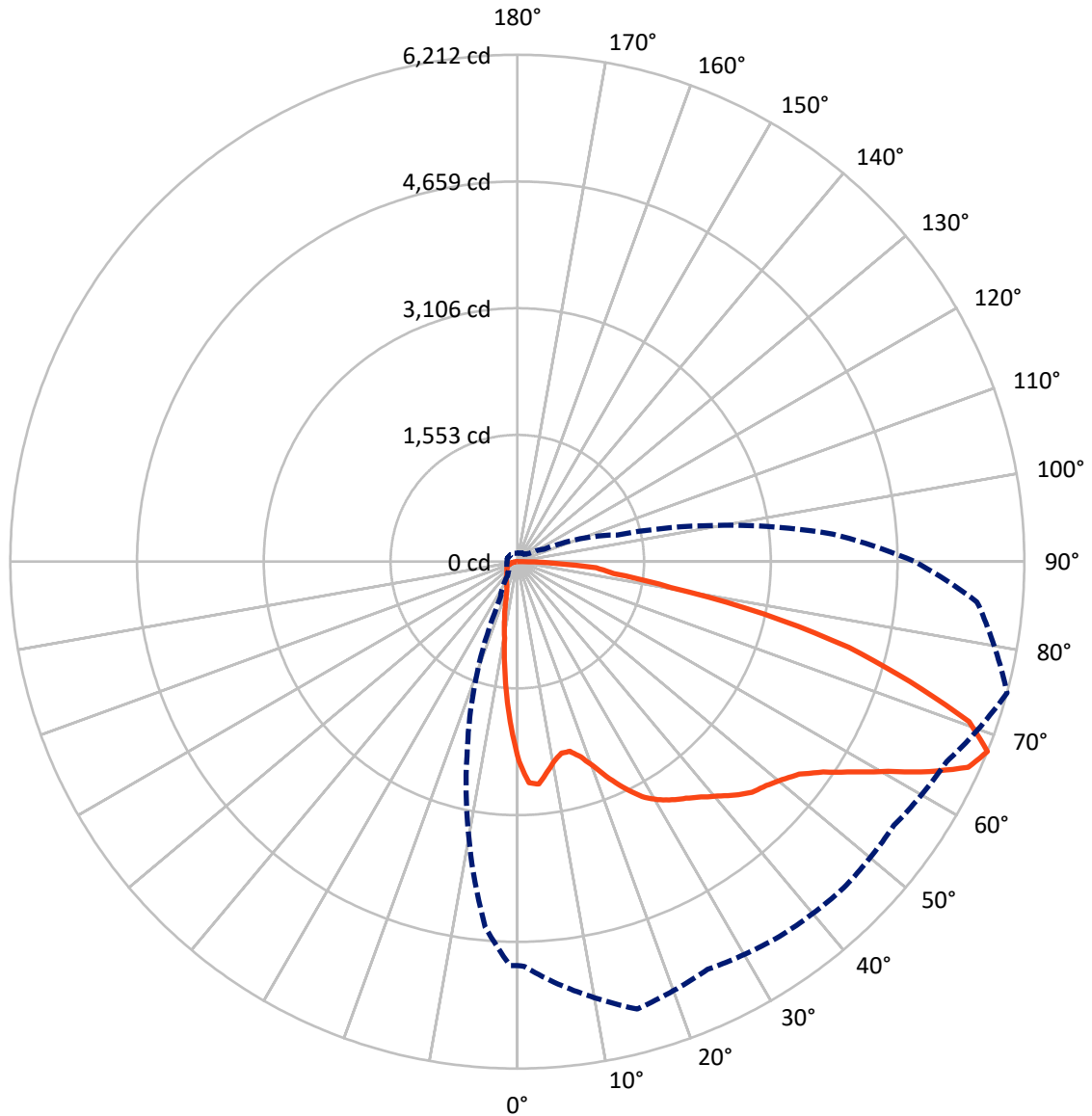
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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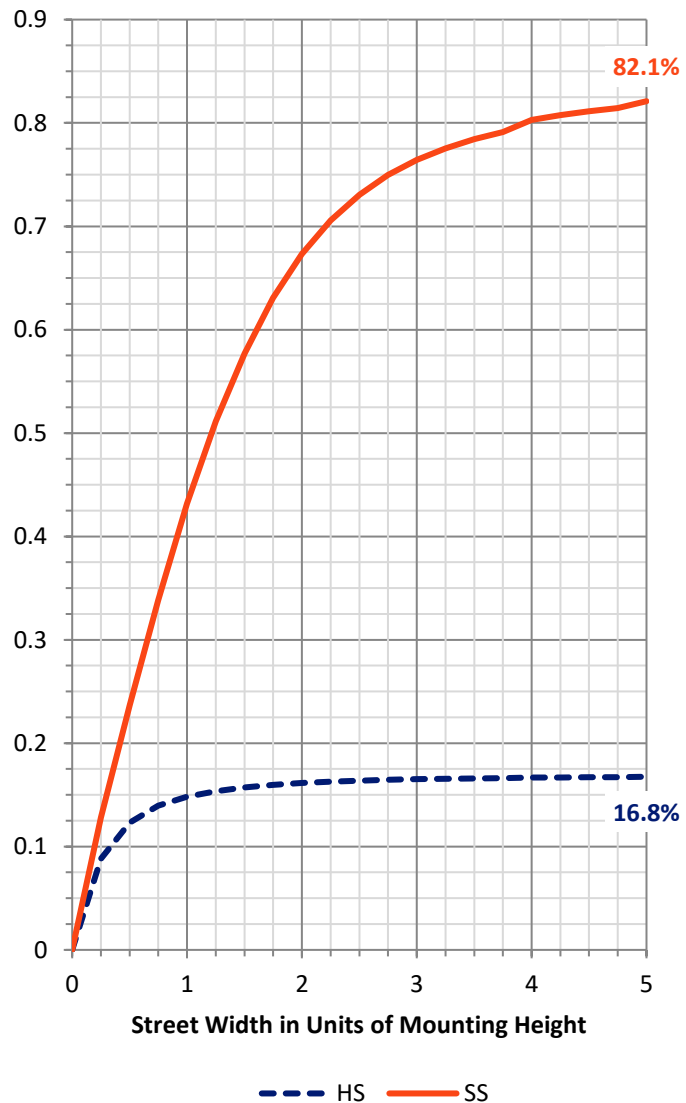
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1324.8 | 0.0 | 1324.8 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 6513.2 | 0.0 | 6513.2 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 7838.0 | 0.0 | 7838.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.7 | 2.4 |
| 10°-20° | 387.4 | 4.9 |
| 20°-30° | 557.4 | 7.1 |
| 30°-40° | 802.8 | 10.2 |
| 40°-50° | 1127.7 | 14.4 |
| 50°-60° | 1572.8 | 20.1 |
| 60°-70° | 1870.0 | 23.9 |
| 70°-80° | 1101.3 | 14.1 |
| 80°-90° | 232.9 | 3.0 |
| 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° | 7838.0 | 100.0 |
| 0°-180° | 7838.0 | 100.0 |



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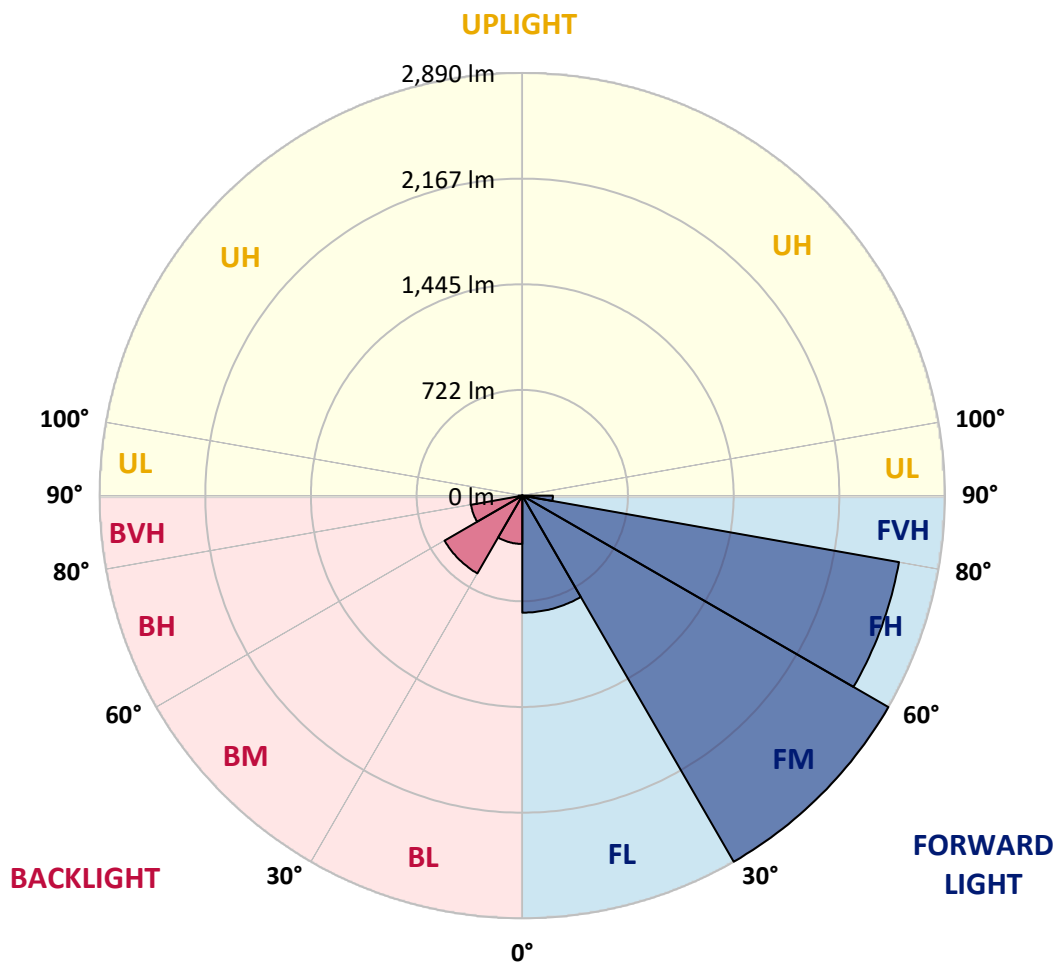
CATALOG NUMBER: GLAN-SA2B-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 800.0 | 10.2 | | | |
| FM | (30°-60°) | 2889.6 | 36.9 | | | |
| FH | (60°-80°) | 2614.8 | 33.4 | | | G2/5000 |
| FVH | (80°-90°) | 208.8 | 2.7 | | | G2/225 |
| BL | (0°-30°) | 330.4 | 4.2 | B1/500 | | |
| BM | (30°-60°) | 613.8 | 7.8 | B1/1000 | | |
| BH | (60°-80°) | 356.5 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 24.1 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P451537

CATALOG NUMBER: GLAN-SA2B-830-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 |
| 2.5° | 2640.3 | 2643.8 | 2666.4 | 2732.3 | 2777.5 | 2794.1 | 2805.6 | 2784.0 | 2762.9 | 2711.6 | 2634.2 |
| 5° | 2632.2 | 2652.8 | 2711.6 | 2859.4 | 2976.0 | 3026.3 | 3041.4 | 2976.5 | 2869.5 | 2737.8 | 2579.5 |
| 7.5° | 2478.4 | 2506.1 | 2596.5 | 2844.3 | 3049.9 | 3167.5 | 3151.9 | 3034.8 | 2841.8 | 2607.1 | 2385.9 |
| 10° | 2296.0 | 2326.6 | 2435.7 | 2735.3 | 3000.2 | 3162.0 | 3162.0 | 3019.3 | 2762.9 | 2484.0 | 2229.1 |
| 12.5° | 2151.2 | 2183.4 | 2308.0 | 2623.2 | 2896.6 | 3049.9 | 3075.5 | 2952.9 | 2706.1 | 2406.1 | 2126.1 |
| 15° | 2103.5 | 2134.6 | 2268.8 | 2555.3 | 2787.0 | 2880.5 | 2889.1 | 2848.9 | 2678.5 | 2411.6 | 2121.6 |
| 17.5° | 2162.8 | 2203.0 | 2338.7 | 2575.4 | 2686.5 | 2692.0 | 2698.6 | 2730.2 | 2681.5 | 2512.6 | 2213.0 |
| 20° | 2334.2 | 2377.4 | 2519.1 | 2640.3 | 2598.6 | 2541.3 | 2544.8 | 2626.2 | 2717.2 | 2679.5 | 2431.7 |
| 22.5° | 2581.5 | 2619.2 | 2764.4 | 2754.4 | 2561.4 | 2443.2 | 2418.6 | 2532.2 | 2770.0 | 2887.6 | 2664.4 |
| 25° | 2848.4 | 2892.6 | 3059.5 | 2923.8 | 2571.9 | 2384.9 | 2369.4 | 2476.9 | 2824.7 | 3082.1 | 2933.3 |
| 27.5° | 3154.0 | 3197.2 | 3328.9 | 3094.6 | 2627.2 | 2380.4 | 2361.8 | 2471.9 | 2874.0 | 3262.0 | 3190.1 |
| 30° | 3381.1 | 3420.8 | 3510.3 | 3238.4 | 2695.1 | 2410.6 | 2387.5 | 2511.6 | 2916.2 | 3385.2 | 3440.5 |
| 32.5° | 3559.6 | 3600.8 | 3649.5 | 3327.9 | 2784.5 | 2465.4 | 2422.6 | 2584.0 | 2971.5 | 3479.2 | 3625.9 |
| 35° | 3745.5 | 3794.3 | 3790.8 | 3407.3 | 2868.0 | 2528.7 | 2487.0 | 2688.5 | 3058.5 | 3561.1 | 3861.1 |
| 37.5° | 3981.3 | 4000.9 | 3975.7 | 3478.7 | 2968.0 | 2642.8 | 2619.7 | 2843.8 | 3182.1 | 3660.1 | 4136.1 |
| 40° | 4220.5 | 4259.7 | 4130.6 | 3565.1 | 3089.6 | 2857.4 | 2854.9 | 3073.5 | 3328.9 | 3776.2 | 4402.5 |
| 42.5° | 4425.6 | 4458.8 | 4275.3 | 3640.5 | 3236.9 | 3119.3 | 3138.4 | 3381.6 | 3521.4 | 3910.9 | 4616.6 |
| 45° | 4579.9 | 4609.6 | 4409.0 | 3713.4 | 3430.9 | 3421.9 | 3534.4 | 3711.9 | 3764.1 | 4032.0 | 4742.2 |
| 47.5° | 4711.1 | 4739.7 | 4502.0 | 3824.0 | 3670.7 | 3783.2 | 3979.3 | 4056.2 | 3971.7 | 4101.4 | 4883.0 |
| 50° | 4821.7 | 4830.2 | 4565.8 | 3955.6 | 3968.2 | 4226.0 | 4416.0 | 4465.8 | 4176.8 | 4200.9 | 5005.1 |
| 52.5° | 4936.8 | 4925.7 | 4675.9 | 4121.5 | 4289.9 | 4646.2 | 4784.5 | 4836.2 | 4373.3 | 4323.6 | 5183.0 |
| 55° | 5194.6 | 5205.2 | 4922.7 | 4330.6 | 4615.1 | 5058.9 | 5240.8 | 5191.1 | 4591.0 | 4549.2 | 5409.2 |
| 57.5° | 5506.2 | 5497.2 | 5270.0 | 4657.8 | 4946.3 | 5442.9 | 5578.6 | 5498.7 | 4881.5 | 4859.4 | 5638.4 |
| 60° | 5627.4 | 5639.4 | 5560.5 | 5009.6 | 5273.0 | 5779.2 | 5917.9 | 5793.7 | 5229.8 | 5219.7 | 5811.3 |
| 62.5° | 5505.7 | 5573.6 | 5626.9 | 5322.8 | 5551.5 | 6026.4 | 6164.2 | 6022.4 | 5593.2 | 5666.1 | 5932.5 |
| 65° | 5263.5 | 5278.0 | 5459.5 | 5588.2 | 5685.7 | 6067.2 | 6139.0 | 6063.6 | 5896.8 | 6072.7 | 5926.9 |
| 67.5° | 4948.8 | 4961.4 | 5174.0 | 5675.1 | 5512.8 | 5604.7 | 5655.0 | 5632.9 | 5802.8 | 6211.9 | 5654.0 |
| 70° | 4649.3 | 4639.2 | 4863.9 | 5453.5 | 4799.0 | 4659.3 | 4701.0 | 4631.7 | 5007.1 | 5871.6 | 5118.7 |
| 72.5° | 4066.2 | 4102.4 | 4343.7 | 4837.2 | 3799.8 | 3572.6 | 3663.6 | 3484.2 | 3851.1 | 5028.7 | 4154.7 |
| 75° | 3185.1 | 3193.7 | 3596.3 | 4059.7 | 2866.5 | 2508.1 | 2631.2 | 2556.3 | 2949.9 | 4194.9 | 2869.0 |
| 77.5° | 2205.5 | 2186.4 | 2619.2 | 3100.7 | 2044.2 | 1836.1 | 1838.1 | 1802.4 | 2059.7 | 3088.6 | 1949.2 |
| 80° | 1400.8 | 1371.7 | 1639.6 | 1915.5 | 1404.8 | 1502.8 | 1453.6 | 1452.1 | 1341.0 | 1905.4 | 1178.6 |
| 82.5° | 756.9 | 789.1 | 1035.9 | 1200.8 | 1007.8 | 1161.6 | 1064.6 | 1033.4 | 920.3 | 1192.7 | 753.9 |
| 85° | 344.8 | 375.0 | 552.4 | 816.8 | 765.5 | 774.0 | 517.2 | 610.2 | 761.5 | 968.6 | 402.6 |
| 87.5° | 33.7 | 43.2 | 114.1 | 385.5 | 261.4 | 206.1 | 76.9 | 148.3 | 191.5 | 344.3 | 32.2 |
| 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-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 |
| 2.5° | 2602.6 | 2576.4 | 2487.5 | 2414.1 | 2336.2 | 2276.9 | 2199.5 | 2147.7 | 2112.0 | 2058.2 | 2051.7 |
| 5° | 2483.0 | 2419.1 | 2264.3 | 2106.5 | 1970.3 | 1867.7 | 1763.7 | 1668.2 | 1611.9 | 1594.3 | 1571.7 |
| 7.5° | 2281.4 | 2173.8 | 1974.8 | 1793.9 | 1637.5 | 1484.7 | 1367.1 | 1283.7 | 1227.9 | 1195.2 | 1156.0 |
| 10° | 2115.5 | 1990.9 | 1748.6 | 1527.0 | 1398.3 | 1303.3 | 1199.8 | 1110.3 | 1041.4 | 982.6 | 950.5 |
| 12.5° | 2004.0 | 1863.2 | 1590.8 | 1410.9 | 1311.3 | 1210.3 | 1089.2 | 988.7 | 887.1 | 820.3 | 791.6 |
| 15° | 1970.3 | 1821.5 | 1542.0 | 1353.1 | 1210.3 | 1078.1 | 942.4 | 811.2 | 710.7 | 647.4 | 626.3 |
| 17.5° | 2052.7 | 1872.8 | 1541.5 | 1276.2 | 1091.7 | 933.9 | 760.0 | 636.8 | 533.8 | 486.5 | 471.5 |
| 20° | 2206.5 | 1971.3 | 1546.1 | 1200.3 | 963.0 | 740.9 | 552.9 | 451.9 | 402.6 | 382.5 | 375.0 |
| 22.5° | 2421.1 | 2121.6 | 1559.6 | 1125.4 | 822.3 | 569.0 | 414.2 | 362.9 | 345.3 | 341.8 | 340.3 |
| 25° | 2685.5 | 2307.5 | 1605.4 | 1058.0 | 703.7 | 434.3 | 346.3 | 323.2 | 313.1 | 309.6 | 309.1 |
| 27.5° | 2928.8 | 2547.8 | 1660.7 | 1000.2 | 589.1 | 374.5 | 313.1 | 293.5 | 283.5 | 283.0 | 284.0 |
| 30° | 3148.4 | 2748.8 | 1706.9 | 935.4 | 502.1 | 332.7 | 291.5 | 271.9 | 262.4 | 261.9 | 264.9 |
| 32.5° | 3338.4 | 2914.2 | 1741.1 | 871.5 | 453.9 | 307.1 | 271.9 | 250.8 | 242.8 | 241.3 | 242.8 |
| 35° | 3541.5 | 3079.1 | 1725.5 | 821.8 | 426.2 | 286.0 | 257.3 | 236.7 | 227.2 | 222.7 | 222.7 |
| 37.5° | 3773.2 | 3249.0 | 1698.9 | 780.6 | 413.7 | 268.4 | 244.8 | 224.7 | 215.1 | 210.6 | 210.1 |
| 40° | 4026.0 | 3418.8 | 1662.2 | 743.9 | 401.1 | 257.8 | 236.2 | 215.1 | 203.6 | 199.0 | 198.0 |
| 42.5° | 4249.2 | 3564.1 | 1632.0 | 719.8 | 380.5 | 259.9 | 228.7 | 208.1 | 193.5 | 187.5 | 187.0 |
| 45° | 4443.2 | 3710.4 | 1626.5 | 705.7 | 363.4 | 256.8 | 226.7 | 202.6 | 185.5 | 178.9 | 177.9 |
| 47.5° | 4595.0 | 3862.7 | 1658.2 | 697.6 | 344.8 | 240.8 | 239.8 | 199.0 | 178.4 | 171.4 | 170.4 |
| 50° | 4779.9 | 4078.8 | 1730.5 | 681.1 | 327.7 | 225.7 | 253.3 | 198.5 | 172.9 | 163.9 | 161.3 |
| 52.5° | 5026.2 | 4360.2 | 1828.5 | 651.4 | 303.1 | 211.6 | 241.8 | 198.5 | 166.4 | 157.3 | 154.3 |
| 55° | 5398.7 | 4719.1 | 1924.5 | 609.7 | 268.4 | 193.0 | 218.1 | 192.5 | 156.8 | 148.8 | 146.8 |
| 57.5° | 5645.5 | 4981.5 | 1985.9 | 551.9 | 225.2 | 179.4 | 188.0 | 183.0 | 147.3 | 138.7 | 138.7 |
| 60° | 5658.0 | 5051.9 | 1956.7 | 479.0 | 198.0 | 166.9 | 163.4 | 184.5 | 138.7 | 129.7 | 128.7 |
| 62.5° | 5513.3 | 4879.5 | 1804.9 | 413.7 | 183.5 | 153.3 | 147.8 | 161.8 | 130.2 | 121.1 | 119.6 |
| 65° | 5287.1 | 4439.7 | 1541.5 | 382.5 | 175.4 | 141.2 | 133.2 | 132.7 | 121.1 | 112.6 | 110.6 |
| 67.5° | 4871.4 | 3879.7 | 1266.6 | 364.4 | 171.4 | 127.7 | 120.1 | 117.6 | 110.6 | 103.5 | 102.5 |
| 70° | 4258.7 | 3249.5 | 1015.8 | 356.9 | 169.4 | 113.6 | 107.6 | 104.5 | 98.5 | 93.0 | 92.5 |
| 72.5° | 3313.3 | 2635.8 | 838.4 | 351.8 | 168.4 | 100.5 | 94.0 | 90.0 | 86.5 | 81.4 | 81.4 |
| 75° | 2379.9 | 1939.1 | 639.8 | 317.2 | 155.8 | 86.5 | 79.4 | 76.9 | 71.9 | 67.9 | 68.9 |
| 77.5° | 1500.3 | 1305.8 | 421.2 | 233.2 | 120.6 | 69.4 | 63.3 | 61.8 | 57.8 | 52.3 | 55.8 |
| 80° | 1013.3 | 918.3 | 245.8 | 146.8 | 75.9 | 50.8 | 48.8 | 48.3 | 43.7 | 37.7 | 38.2 |
| 82.5° | 689.6 | 676.5 | 127.7 | 83.4 | 43.7 | 29.7 | 28.6 | 29.7 | 24.6 | 20.1 | 20.1 |
| 85° | 269.4 | 367.9 | 60.3 | 32.7 | 14.1 | 4.5 | 6.5 | 7.0 | 4.0 | 2.0 | 2.5 |
| 87.5° | 5.0 | 37.7 | 1.5 | 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-SA2B-830-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 | 2448.8 |
| 2.5° | 2041.7 | 2037.1 | 2044.7 | 2012.5 | 2019.0 | 2031.1 | 2037.1 | 2040.6 | 2090.4 | 2078.8 | 2110.5 |
| 5° | 1592.8 | 1588.3 | 1617.4 | 1621.5 | 1636.5 | 1633.5 | 1648.1 | 1651.6 | 1669.7 | 1676.2 | 1720.5 |
| 7.5° | 1158.5 | 1178.1 | 1211.3 | 1228.4 | 1254.0 | 1262.1 | 1254.5 | 1273.1 | 1235.4 | 1262.6 | 1270.6 |
| 10° | 930.9 | 907.2 | 893.2 | 932.4 | 937.4 | 974.6 | 959.5 | 947.4 | 969.6 | 970.6 | 991.7 |
| 12.5° | 775.0 | 724.3 | 690.6 | 701.7 | 713.7 | 729.8 | 732.3 | 756.4 | 772.5 | 787.6 | 800.2 |
| 15° | 607.7 | 590.1 | 559.4 | 544.3 | 561.4 | 568.0 | 583.5 | 603.6 | 620.7 | 625.3 | 642.4 |
| 17.5° | 466.4 | 469.4 | 464.4 | 455.4 | 465.9 | 471.0 | 472.0 | 472.5 | 477.0 | 474.0 | 499.1 |
| 20° | 375.5 | 386.0 | 398.6 | 400.6 | 404.1 | 406.6 | 402.1 | 385.0 | 385.5 | 396.1 | 404.1 |
| 22.5° | 339.8 | 341.8 | 355.9 | 360.4 | 371.4 | 366.9 | 353.8 | 345.8 | 344.8 | 347.3 | 351.3 |
| 25° | 311.6 | 314.6 | 324.7 | 331.7 | 340.3 | 332.2 | 322.7 | 315.1 | 314.1 | 316.7 | 320.7 |
| 27.5° | 286.5 | 291.0 | 300.1 | 307.1 | 315.1 | 307.6 | 298.6 | 292.0 | 291.5 | 291.0 | 293.5 |
| 30° | 266.4 | 271.4 | 278.0 | 286.0 | 291.5 | 285.0 | 276.4 | 272.9 | 272.4 | 271.4 | 272.4 |
| 32.5° | 246.3 | 254.3 | 260.9 | 264.9 | 270.4 | 265.4 | 258.9 | 256.8 | 253.3 | 250.3 | 248.8 |
| 35° | 223.7 | 232.2 | 242.3 | 247.3 | 252.8 | 247.8 | 243.3 | 234.7 | 228.7 | 228.2 | 229.2 |
| 37.5° | 210.6 | 214.1 | 222.2 | 230.7 | 236.2 | 233.7 | 225.2 | 216.6 | 215.1 | 215.1 | 216.1 |
| 40° | 199.0 | 200.5 | 204.1 | 215.1 | 225.2 | 217.6 | 207.1 | 204.6 | 204.6 | 204.1 | 204.6 |
| 42.5° | 187.5 | 189.0 | 189.0 | 197.5 | 213.6 | 201.6 | 193.5 | 193.5 | 193.5 | 194.0 | 195.5 |
| 45° | 176.9 | 177.4 | 176.9 | 183.0 | 198.0 | 188.0 | 182.5 | 184.0 | 185.0 | 186.0 | 187.0 |
| 47.5° | 167.9 | 168.4 | 167.9 | 172.9 | 180.4 | 176.4 | 173.4 | 175.4 | 177.4 | 178.9 | 179.9 |
| 50° | 159.8 | 159.3 | 160.3 | 163.4 | 166.9 | 167.9 | 165.9 | 168.9 | 169.9 | 171.9 | 174.4 |
| 52.5° | 152.8 | 152.3 | 153.3 | 154.8 | 159.8 | 159.8 | 159.8 | 162.3 | 164.4 | 166.4 | 169.9 |
| 55° | 144.8 | 145.3 | 146.8 | 148.8 | 155.3 | 154.3 | 154.8 | 156.8 | 158.8 | 161.8 | 163.9 |
| 57.5° | 137.2 | 138.2 | 140.2 | 143.2 | 149.8 | 149.3 | 149.8 | 150.8 | 153.3 | 154.8 | 156.8 |
| 60° | 128.7 | 130.7 | 133.2 | 135.2 | 141.7 | 141.2 | 143.8 | 145.8 | 147.3 | 147.3 | 148.3 |
| 62.5° | 120.1 | 123.1 | 125.7 | 127.2 | 134.2 | 134.7 | 138.2 | 139.7 | 140.7 | 139.7 | 141.2 |
| 65° | 111.6 | 116.1 | 117.1 | 119.1 | 126.2 | 126.7 | 130.7 | 134.2 | 133.2 | 132.2 | 134.7 |
| 67.5° | 103.0 | 108.6 | 108.1 | 110.6 | 117.6 | 118.6 | 122.1 | 128.2 | 126.2 | 125.2 | 127.2 |
| 70° | 93.5 | 97.5 | 98.0 | 99.5 | 109.1 | 107.6 | 113.1 | 118.6 | 117.1 | 117.6 | 117.6 |
| 72.5° | 82.9 | 86.5 | 86.5 | 89.5 | 99.5 | 97.0 | 101.5 | 107.6 | 107.6 | 107.1 | 107.1 |
| 75° | 70.4 | 72.4 | 74.4 | 78.9 | 89.5 | 86.5 | 89.5 | 95.0 | 96.0 | 95.0 | 95.0 |
| 77.5° | 56.8 | 59.8 | 60.8 | 66.8 | 74.4 | 73.9 | 76.9 | 79.4 | 81.4 | 80.4 | 80.4 |
| 80° | 40.2 | 43.2 | 47.2 | 53.8 | 58.3 | 59.8 | 61.3 | 63.3 | 64.3 | 64.3 | 65.3 |
| 82.5° | 22.6 | 27.1 | 30.7 | 37.2 | 39.2 | 46.7 | 46.2 | 47.7 | 46.2 | 40.7 | 45.2 |
| 85° | 5.0 | 9.5 | 13.6 | 17.1 | 19.6 | 27.1 | 28.6 | 32.2 | 26.6 | 24.6 | 24.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 8.0 | 11.1 | 9.5 | 8.0 | 8.0 |
| 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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| 22.5° | 367.9 | 399.6 | 474.5 | 635.8 | 858.5 | 1160.1 | 1634.5 | 2272.9 | 2493.5 | 2581.5 |
| 25° | 333.2 | 349.8 | 392.0 | 497.6 | 743.4 | 1091.7 | 1686.3 | 2507.6 | 2790.1 | 2848.4 |
| 27.5° | 303.6 | 315.6 | 341.8 | 417.7 | 638.8 | 1028.4 | 1746.6 | 2767.9 | 3067.0 | 3154.0 |
| 30° | 275.4 | 291.5 | 316.1 | 370.9 | 572.0 | 970.6 | 1822.5 | 2979.0 | 3300.2 | 3381.1 |
| 32.5° | 253.8 | 269.9 | 292.5 | 338.3 | 515.2 | 909.7 | 1867.7 | 3164.5 | 3490.7 | 3559.6 |
| 35° | 236.2 | 249.8 | 273.4 | 312.1 | 472.0 | 863.5 | 1858.7 | 3311.8 | 3675.2 | 3745.5 |
| 37.5° | 223.7 | 235.2 | 258.9 | 287.5 | 439.3 | 815.3 | 1854.2 | 3506.3 | 3899.8 | 3981.3 |
| 40° | 212.1 | 224.2 | 245.8 | 271.4 | 406.6 | 758.5 | 1856.7 | 3699.3 | 4139.1 | 4220.5 |
| 42.5° | 203.1 | 216.6 | 234.2 | 266.9 | 372.9 | 712.7 | 1856.7 | 3867.2 | 4347.2 | 4425.6 |
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| 47.5° | 189.0 | 205.1 | 229.7 | 257.3 | 339.8 | 652.9 | 1833.1 | 4127.0 | 4648.3 | 4711.1 |
| 50° | 184.5 | 203.6 | 244.3 | 246.8 | 341.8 | 645.4 | 1886.3 | 4272.8 | 4767.4 | 4821.7 |
| 52.5° | 180.9 | 204.1 | 243.8 | 231.2 | 338.3 | 650.4 | 1997.4 | 4500.5 | 4932.7 | 4936.8 |
| 55° | 173.9 | 203.6 | 231.2 | 213.6 | 323.7 | 658.9 | 2140.2 | 4831.2 | 5191.6 | 5194.6 |
| 57.5° | 166.9 | 198.0 | 214.6 | 198.5 | 294.0 | 658.9 | 2312.1 | 5144.3 | 5503.7 | 5506.2 |
| 60° | 159.8 | 206.1 | 188.5 | 185.5 | 255.3 | 646.9 | 2493.5 | 5282.1 | 5601.7 | 5627.4 |
| 62.5° | 152.8 | 207.6 | 168.4 | 173.9 | 227.2 | 617.7 | 2628.7 | 5129.8 | 5469.0 | 5505.7 |
| 65° | 144.8 | 167.4 | 155.3 | 161.8 | 212.6 | 569.0 | 2586.0 | 4850.8 | 5219.7 | 5263.5 |
| 67.5° | 135.2 | 141.7 | 141.2 | 149.3 | 207.6 | 497.1 | 2360.8 | 4498.0 | 4951.3 | 4948.8 |
| 70° | 123.6 | 127.2 | 128.7 | 137.2 | 198.0 | 441.3 | 1967.3 | 4040.1 | 4593.0 | 4649.3 |
| 72.5° | 111.6 | 114.6 | 116.1 | 123.6 | 188.5 | 409.6 | 1527.0 | 3409.3 | 3978.3 | 4066.2 |
| 75° | 98.5 | 100.5 | 102.5 | 109.1 | 178.4 | 362.9 | 1087.7 | 2602.6 | 3046.9 | 3185.1 |
| 77.5° | 84.9 | 84.9 | 87.5 | 94.0 | 150.3 | 299.6 | 729.8 | 1825.5 | 2064.3 | 2205.5 |
| 80° | 68.9 | 69.4 | 68.4 | 75.4 | 110.6 | 205.1 | 414.7 | 1219.4 | 1373.7 | 1400.8 |
| 82.5° | 52.8 | 51.3 | 51.8 | 55.3 | 82.4 | 139.7 | 221.2 | 757.5 | 772.0 | 756.9 |
| 85° | 33.2 | 33.2 | 32.2 | 36.2 | 52.8 | 72.9 | 120.6 | 463.9 | 362.4 | 344.8 |
| 87.5° | 13.6 | 11.1 | 12.6 | 14.6 | 25.1 | 29.7 | 47.2 | 95.5 | 36.7 | 33.7 |
| 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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