

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: P451997

Luminaire Tested: **GLAN-SA2D-830-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-830-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12253 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

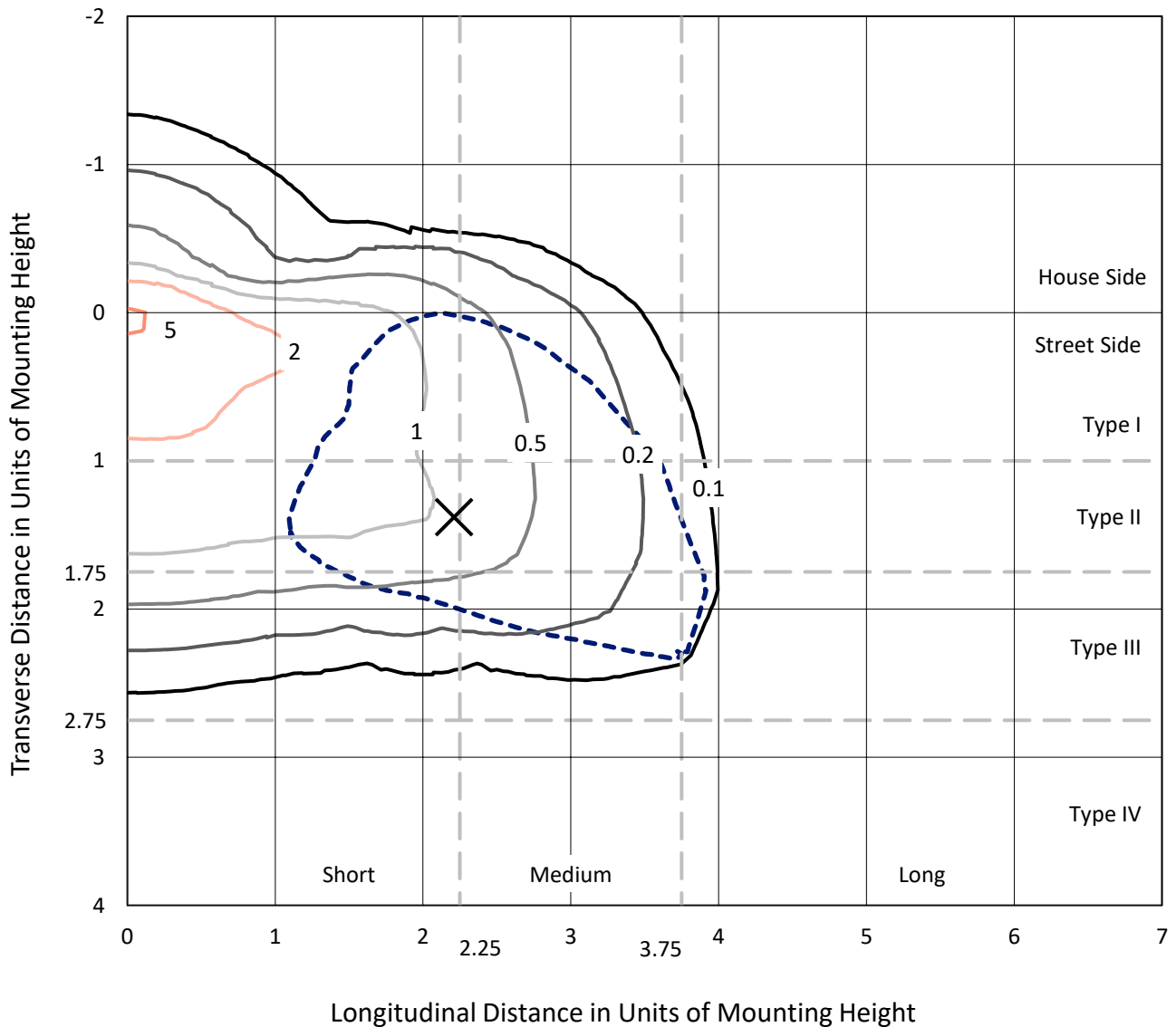
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451997  
 CATALOG NUMBER: GLAN-SA2D-830-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

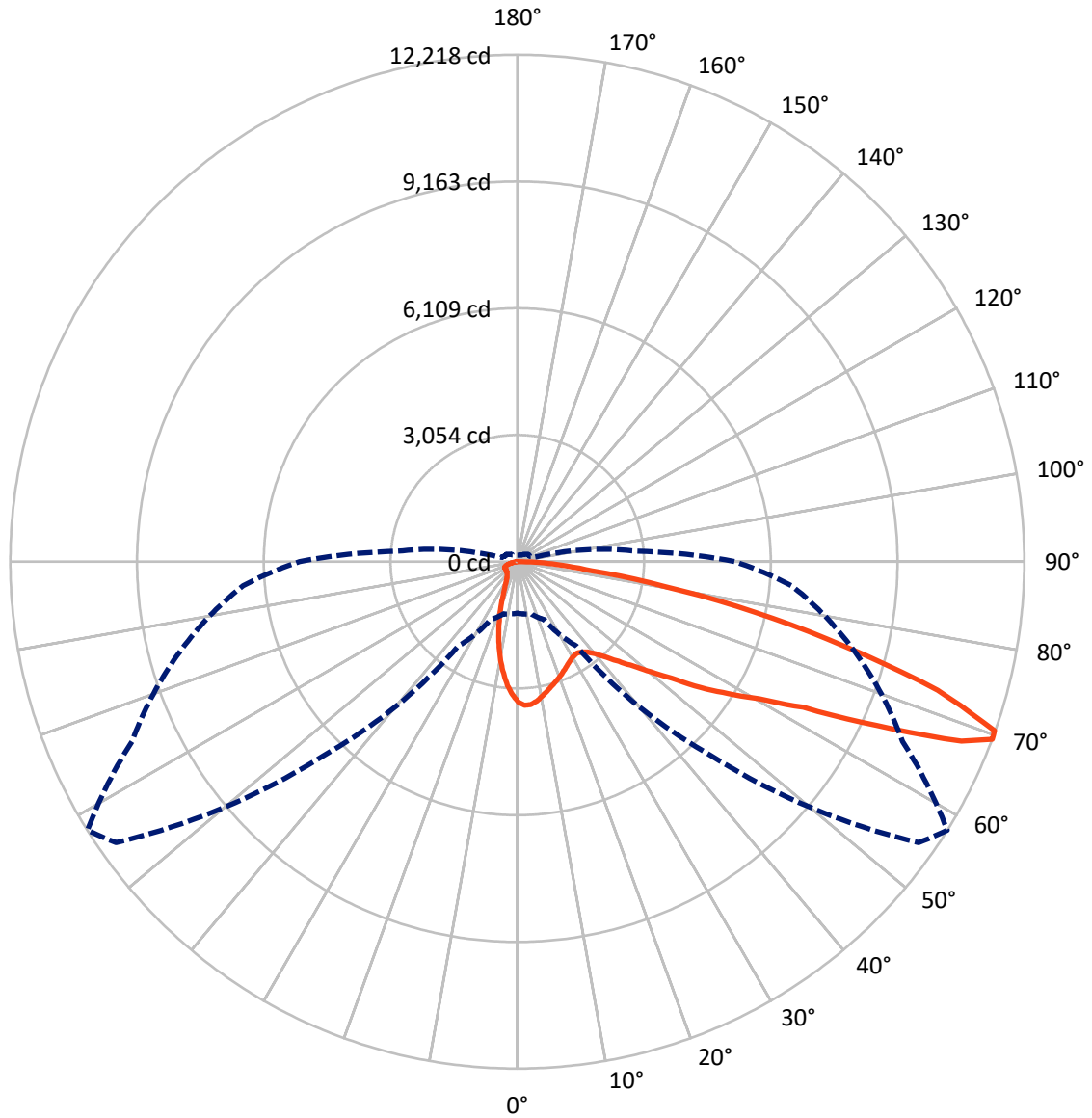
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P451997  
CATALOG NUMBER: GLAN-SA2D-830-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P451997

CATALOG NUMBER: GLAN-SA2D-830-U-SL3

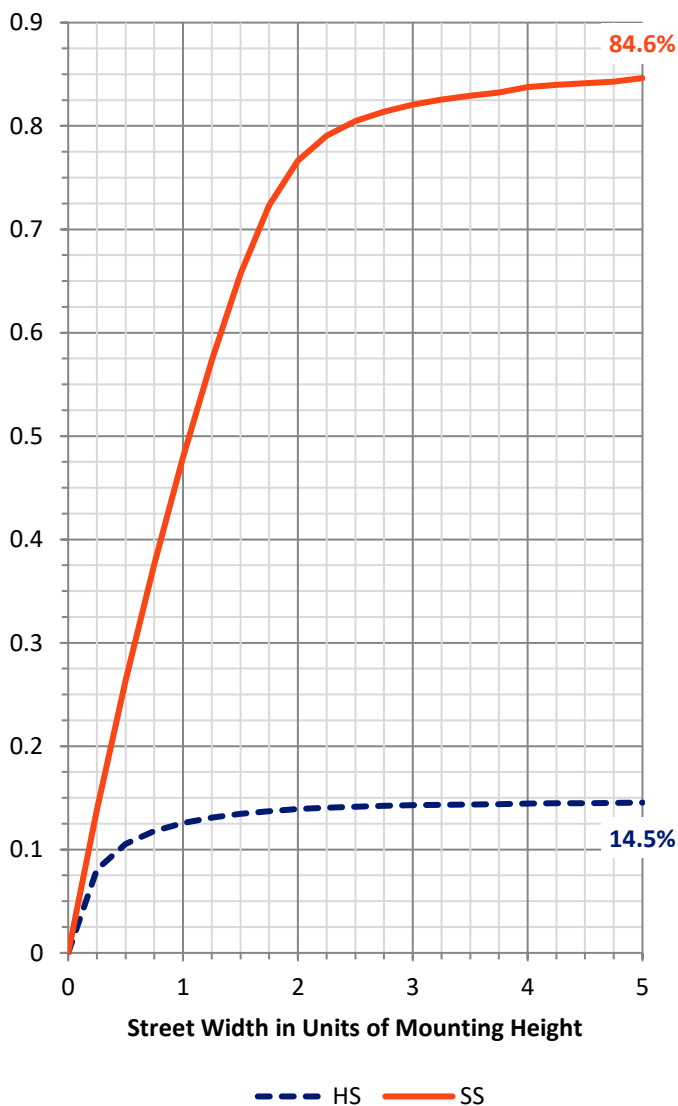
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1795.7   | 0.0    | 1795.7  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 10457.3  | 0.0    | 10457.3 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 12253.0  | 0.0    | 12253.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 287.6   | 2.3       |
| 10°-20°   | 631.4   | 5.2       |
| 20°-30°   | 815.8   | 6.7       |
| 30°-40°   | 1059.6  | 8.6       |
| 40°-50°   | 1540.5  | 12.6      |
| 50°-60°   | 2458.1  | 20.1      |
| 60°-70°   | 3283.7  | 26.8      |
| 70°-80°   | 1892.9  | 15.4      |
| 80°-90°   | 283.5   | 2.3       |
| 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°    | 12253.0 | 100.0     |
| 0°-180°   | 12253.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P451997

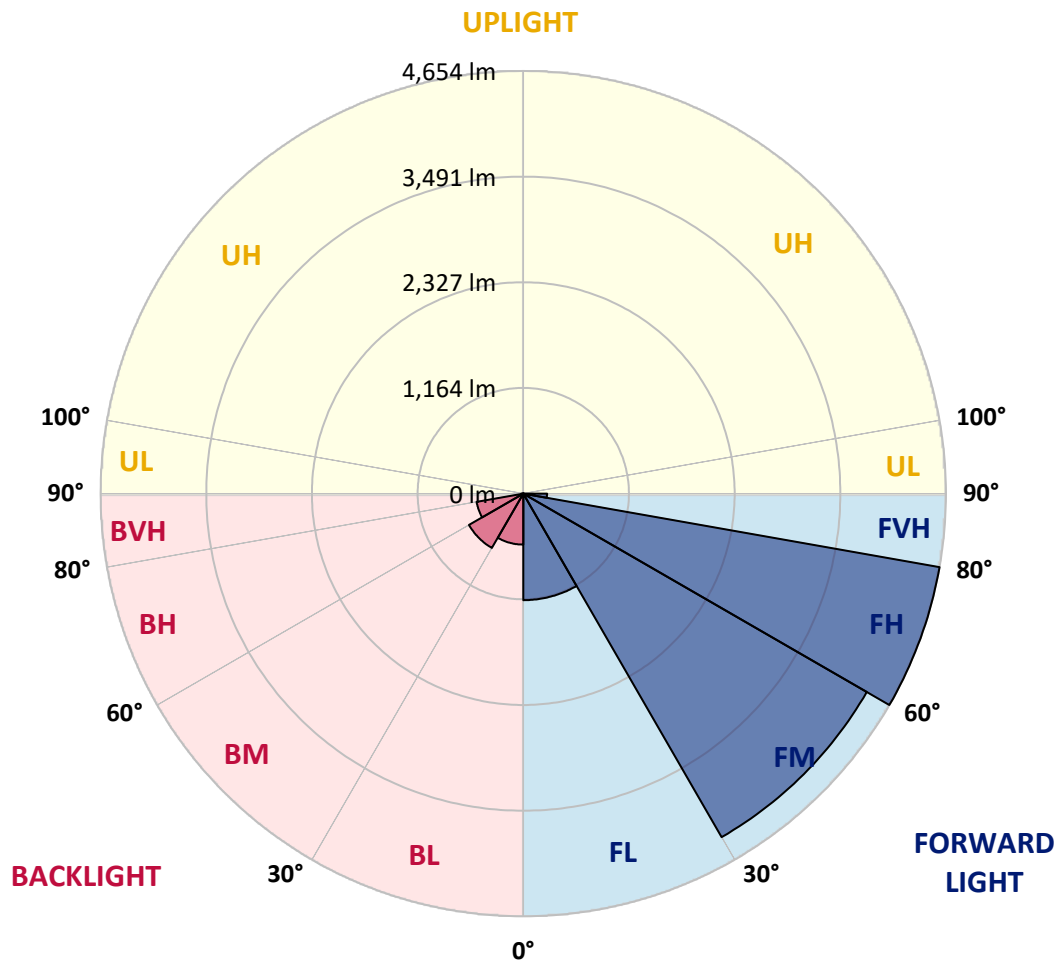
CATALOG NUMBER: GLAN-SA2D-830-U-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1173.5 | 9.6       |                         |      |         |
| FM (30°-60°)   | 4367.6 | 35.6      |                         |      |         |
| FH (60°-80°)   | 4654.4 | 38.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 261.8  | 2.1       |                         |      | G3/500  |
| BL (0°-30°)    | 561.3  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 690.6  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 522.1  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 21.7   | 0.2       |                         |      | 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 III Short





REPORT NUMBER: P451997

CATALOG NUMBER: GLAN-SA2D-830-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0  | 3386.0  | 3386.0  | 3386.0 | 3386.0 |
| 2.5°  | 3511.7 | 3521.3 | 3518.6 | 3515.2 | 3509.7 | 3494.7 | 3470.1  | 3466.0  | 3450.2  | 3416.8 | 3375.1 |
| 5°    | 3457.8 | 3466.0 | 3466.6 | 3471.4 | 3478.3 | 3475.5 | 3457.8  | 3455.7  | 3432.5  | 3387.4 | 3317.7 |
| 7.5°  | 3272.6 | 3283.5 | 3307.4 | 3334.1 | 3358.0 | 3380.5 | 3386.0  | 3389.4  | 3375.1  | 3323.1 | 3230.2 |
| 10°   | 3064.2 | 3075.1 | 3086.0 | 3125.7 | 3184.4 | 3240.5 | 3286.9  | 3293.1  | 3296.5  | 3248.7 | 3135.2 |
| 12.5° | 2833.2 | 2855.7 | 2879.0 | 2937.7 | 3016.3 | 3104.5 | 3186.5  | 3199.5  | 3222.7  | 3186.5 | 3053.2 |
| 15°   | 2637.1 | 2660.3 | 2693.8 | 2746.4 | 2841.4 | 2968.5 | 3084.0  | 3105.2  | 3150.9  | 3132.5 | 2976.7 |
| 17.5° | 2501.1 | 2509.3 | 2532.5 | 2592.6 | 2695.1 | 2829.1 | 2983.5  | 3025.9  | 3099.0  | 3094.2 | 2911.1 |
| 20°   | 2393.8 | 2404.0 | 2418.4 | 2455.3 | 2561.9 | 2703.3 | 2889.9  | 2944.6  | 3043.7  | 3060.1 | 2846.2 |
| 22.5° | 2348.7 | 2356.2 | 2354.1 | 2374.0 | 2446.4 | 2588.5 | 2794.9  | 2859.8  | 2994.5  | 3036.8 | 2786.0 |
| 25°   | 2351.4 | 2358.2 | 2348.0 | 2343.2 | 2386.3 | 2487.4 | 2695.8  | 2778.5  | 2954.8  | 3021.1 | 2731.4 |
| 27.5° | 2397.2 | 2402.0 | 2382.9 | 2363.7 | 2367.1 | 2424.5 | 2613.8  | 2705.4  | 2921.3  | 3027.9 | 2685.6 |
| 30°   | 2458.7 | 2467.6 | 2455.3 | 2432.1 | 2406.8 | 2409.5 | 2561.2  | 2651.4  | 2905.6  | 3051.9 | 2663.7 |
| 32.5° | 2538.0 | 2546.2 | 2540.7 | 2522.3 | 2489.5 | 2453.2 | 2548.2  | 2631.6  | 2907.0  | 3100.4 | 2658.9 |
| 35°   | 2621.3 | 2637.7 | 2646.6 | 2645.3 | 2618.6 | 2555.7 | 2599.5  | 2668.5  | 2939.8  | 3181.7 | 2686.9 |
| 37.5° | 2715.6 | 2729.3 | 2767.6 | 2792.2 | 2767.6 | 2694.5 | 2715.0  | 2762.8  | 3012.2  | 3299.2 | 2748.4 |
| 40°   | 2807.2 | 2827.7 | 2883.7 | 2960.3 | 2950.7 | 2886.5 | 2891.3  | 2922.7  | 3140.0  | 3474.2 | 2868.7 |
| 42.5° | 2902.9 | 2927.5 | 3025.2 | 3138.6 | 3161.2 | 3111.3 | 3124.3  | 3152.3  | 3321.8  | 3716.8 | 3075.1 |
| 45°   | 3025.9 | 3055.3 | 3175.5 | 3317.0 | 3405.8 | 3375.1 | 3412.0  | 3425.6  | 3565.1  | 4032.5 | 3347.1 |
| 47.5° | 3184.4 | 3218.6 | 3366.9 | 3543.2 | 3668.9 | 3696.9 | 3761.2  | 3753.0  | 3866.4  | 4406.3 | 3699.7 |
| 50°   | 3451.6 | 3470.7 | 3610.8 | 3790.6 | 3963.4 | 4089.9 | 4159.6  | 4172.6  | 4240.2  | 4769.8 | 4094.0 |
| 52.5° | 3769.4 | 3786.5 | 3887.6 | 4044.8 | 4261.4 | 4529.3 | 4701.5  | 4659.1  | 4675.5  | 5212.6 | 4555.2 |
| 55°   | 4126.8 | 4155.5 | 4219.7 | 4324.3 | 4605.1 | 4999.4 | 5345.2  | 5355.4  | 5173.7  | 5636.3 | 4997.4 |
| 57.5° | 4403.5 | 4452.0 | 4562.1 | 4711.0 | 5067.1 | 5522.2 | 5986.9  | 5993.7  | 5761.3  | 6088.7 | 5485.3 |
| 60°   | 4264.1 | 4321.5 | 4573.0 | 4935.9 | 5673.2 | 6434.4 | 6753.6  | 6714.6  | 6333.3  | 6603.9 | 6080.5 |
| 62.5° | 3662.8 | 3673.0 | 4038.6 | 4605.8 | 5859.7 | 7654.9 | 7894.8  | 7730.1  | 7096.6  | 7257.2 | 6685.2 |
| 65°   | 2370.5 | 2437.5 | 2727.3 | 3522.0 | 5246.8 | 8332.1 | 9894.3  | 9513.6  | 8166.7  | 7998.6 | 7191.6 |
| 67.5° | 1496.5 | 1479.5 | 1599.7 | 2011.1 | 3608.8 | 7735.6 | 11600.6 | 11540.5 | 9566.3  | 8466.7 | 7070.6 |
| 69°   | 1241.0 | 1260.1 | 1301.1 | 1541.6 | 2483.3 | 6604.6 | 11802.2 | 12217.7 | 10244.8 | 8429.8 | 6631.3 |
| 70°   | 1125.5 | 1134.4 | 1177.4 | 1366.7 | 1916.1 | 5531.7 | 11471.4 | 12199.2 | 10511.3 | 8275.4 | 6312.8 |
| 72.5° | 893.1  | 892.5  | 966.3  | 1137.1 | 1432.3 | 3157.8 | 9419.3  | 10591.3 | 10213.4 | 7556.5 | 5216.0 |
| 75°   | 678.6  | 689.5  | 770.8  | 962.2  | 1319.6 | 1725.5 | 6573.2  | 8156.5  | 8157.2  | 5968.4 | 3254.8 |
| 77.5° | 489.3  | 496.1  | 591.1  | 807.7  | 1243.0 | 1398.8 | 4378.2  | 5850.2  | 5499.6  | 2734.8 | 1023.0 |
| 80°   | 320.5  | 324.6  | 397.0  | 639.6  | 1120.7 | 1319.6 | 2596.1  | 3580.8  | 2594.0  | 725.7  | 338.3  |
| 82.5° | 175.6  | 196.1  | 242.6  | 414.1  | 899.3  | 1219.1 | 1577.9  | 1812.3  | 973.1   | 323.2  | 176.3  |
| 85°   | 88.2   | 93.6   | 136.7  | 241.9  | 587.7  | 1008.6 | 1098.8  | 1039.4  | 502.3   | 160.6  | 91.6   |
| 87.5° | 26.0   | 32.8   | 56.7   | 93.6   | 238.5  | 525.5  | 611.6   | 548.7   | 193.4   | 58.1   | 19.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    |



REPORT NUMBER: P451997  
 CATALOG NUMBER: GLAN-SA2D-830-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 | 3386.0 |
| 2.5°  | 3358.0 | 3345.7 | 3291.0 | 3241.8 | 3196.7 | 3148.9 | 3108.6 | 3073.0 | 3076.5 | 3077.1 | 3040.9 |
| 5°    | 3281.5 | 3253.4 | 3149.6 | 3052.5 | 2970.5 | 2866.7 | 2777.8 | 2720.4 | 2691.7 | 2653.5 | 2667.1 |
| 7.5°  | 3177.6 | 3123.6 | 2979.4 | 2818.1 | 2667.1 | 2532.5 | 2386.3 | 2285.8 | 2221.6 | 2159.4 | 2167.6 |
| 10°   | 3070.3 | 2983.5 | 2773.7 | 2560.5 | 2365.1 | 2149.8 | 1963.3 | 1803.4 | 1684.5 | 1640.0 | 1610.7 |
| 12.5° | 2960.3 | 2846.2 | 2579.7 | 2296.1 | 2026.1 | 1768.5 | 1504.1 | 1332.5 | 1201.3 | 1131.6 | 1140.5 |
| 15°   | 2859.8 | 2721.1 | 2377.4 | 2031.6 | 1681.0 | 1374.2 | 1110.4 | 947.1  | 855.6  | 836.4  | 847.4  |
| 17.5° | 2766.9 | 2585.1 | 2188.1 | 1774.7 | 1365.3 | 1030.5 | 834.4  | 742.1  | 705.2  | 695.0  | 694.3  |
| 20°   | 2671.2 | 2469.6 | 1975.6 | 1500.0 | 1064.0 | 798.8  | 684.7  | 641.7  | 634.8  | 638.9  | 639.6  |
| 22.5° | 2574.2 | 2326.8 | 1756.9 | 1227.3 | 847.4  | 653.3  | 598.6  | 587.0  | 592.5  | 602.0  | 603.4  |
| 25°   | 2484.7 | 2201.1 | 1546.4 | 988.1  | 676.5  | 574.0  | 547.4  | 547.4  | 559.7  | 574.0  | 574.7  |
| 27.5° | 2410.9 | 2079.4 | 1336.6 | 784.5  | 566.5  | 516.6  | 507.7  | 512.5  | 529.6  | 540.5  | 541.2  |
| 30°   | 2350.0 | 1966.0 | 1138.5 | 628.7  | 498.2  | 470.8  | 468.8  | 477.0  | 489.3  | 499.5  | 500.2  |
| 32.5° | 2304.3 | 1866.2 | 953.3  | 528.2  | 451.0  | 436.0  | 435.3  | 441.4  | 448.3  | 451.0  | 453.7  |
| 35°   | 2286.5 | 1783.6 | 783.8  | 464.7  | 419.6  | 410.0  | 410.0  | 409.3  | 412.1  | 413.4  | 414.8  |
| 37.5° | 2300.8 | 1720.0 | 652.6  | 423.7  | 396.3  | 389.5  | 385.4  | 381.3  | 379.9  | 379.9  | 380.6  |
| 40°   | 2361.7 | 1686.5 | 554.9  | 397.0  | 379.9  | 369.7  | 362.2  | 357.4  | 352.6  | 354.0  | 355.3  |
| 42.5° | 2490.8 | 1692.7 | 488.6  | 379.3  | 365.6  | 351.2  | 340.3  | 334.8  | 331.4  | 335.5  | 334.8  |
| 45°   | 2696.5 | 1754.2 | 446.2  | 367.0  | 351.2  | 332.8  | 322.5  | 317.1  | 317.1  | 323.2  | 325.3  |
| 47.5° | 2984.2 | 1871.7 | 423.7  | 357.4  | 340.3  | 318.4  | 308.2  | 304.1  | 305.5  | 315.7  | 316.4  |
| 50°   | 3335.4 | 2076.0 | 419.6  | 352.6  | 334.8  | 308.2  | 296.6  | 292.5  | 295.9  | 306.8  | 308.2  |
| 52.5° | 3722.9 | 2339.1 | 439.4  | 353.3  | 330.1  | 302.0  | 287.0  | 280.9  | 284.3  | 293.2  | 295.9  |
| 55°   | 4182.1 | 2668.5 | 490.6  | 356.0  | 323.2  | 298.6  | 280.2  | 266.5  | 270.6  | 276.8  | 277.4  |
| 57.5° | 4650.9 | 3084.0 | 580.8  | 356.7  | 317.8  | 292.5  | 268.6  | 250.8  | 250.8  | 254.9  | 256.9  |
| 60°   | 5223.5 | 3536.3 | 699.8  | 357.4  | 318.4  | 283.6  | 252.8  | 233.0  | 230.3  | 232.3  | 233.0  |
| 62.5° | 5792.1 | 3914.9 | 719.6  | 355.3  | 325.3  | 274.7  | 235.8  | 215.3  | 210.5  | 209.8  | 208.4  |
| 65°   | 6042.9 | 3844.5 | 589.7  | 345.8  | 332.8  | 269.2  | 222.1  | 198.2  | 190.0  | 187.2  | 187.2  |
| 67.5° | 5634.2 | 3252.1 | 443.5  | 332.8  | 328.0  | 263.8  | 209.1  | 183.8  | 174.3  | 168.8  | 168.8  |
| 69°   | 5250.2 | 2892.6 | 398.4  | 323.9  | 315.7  | 254.9  | 200.9  | 176.3  | 164.7  | 158.5  | 156.5  |
| 70°   | 4953.6 | 2645.3 | 379.3  | 316.4  | 304.1  | 244.6  | 194.8  | 170.8  | 157.9  | 151.0  | 149.7  |
| 72.5° | 3953.2 | 2075.3 | 332.1  | 287.7  | 259.0  | 205.7  | 172.9  | 153.8  | 141.5  | 133.9  | 131.9  |
| 75°   | 2278.3 | 1124.8 | 275.4  | 250.1  | 208.4  | 159.9  | 146.2  | 133.9  | 124.4  | 117.5  | 115.5  |
| 77.5° | 701.1  | 434.6  | 199.5  | 197.5  | 153.1  | 123.7  | 116.9  | 112.1  | 105.2  | 97.7   | 96.4   |
| 80°   | 295.2  | 221.4  | 135.3  | 133.3  | 101.8  | 86.1   | 84.1   | 83.4   | 80.6   | 74.5   | 72.4   |
| 82.5° | 162.0  | 125.1  | 94.3   | 82.0   | 61.5   | 49.9   | 51.9   | 52.6   | 50.6   | 44.4   | 40.3   |
| 85°   | 79.3   | 68.3   | 45.8   | 36.9   | 28.0   | 17.8   | 17.1   | 20.5   | 19.1   | 13.7   | 15.0   |
| 87.5° | 15.7   | 19.1   | 12.3   | 5.5    | 2.7    | 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    |

(END OF REPORT)