

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: P456185

Luminaire Tested: **GLAN-SA7B-830-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23122 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

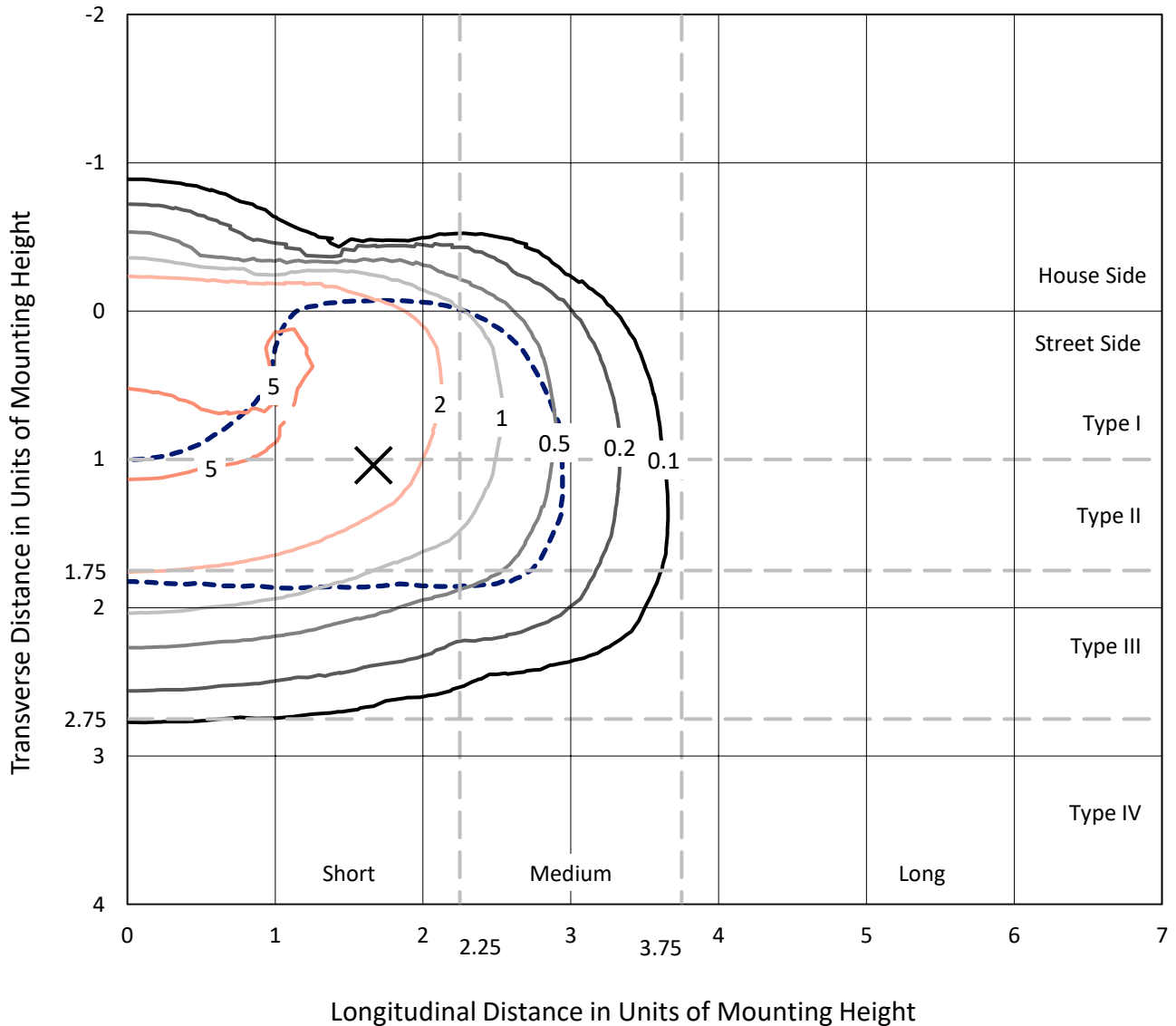
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456185  
 CATALOG NUMBER: GLAN-SA7B-830-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

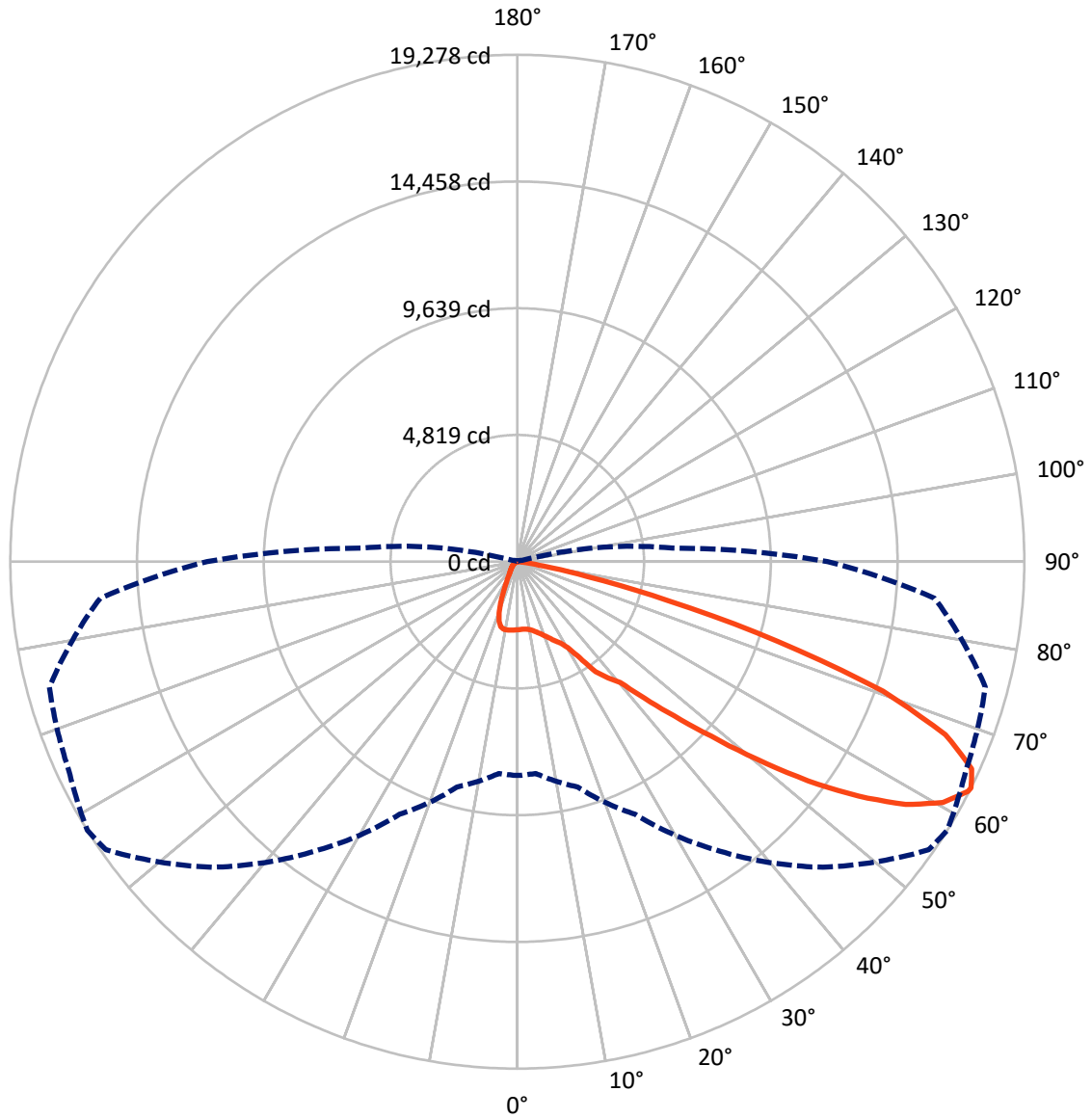
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P456185  
CATALOG NUMBER: GLAN-SA7B-830-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P456185

CATALOG NUMBER: GLAN-SA7B-830-U-T3-HSS

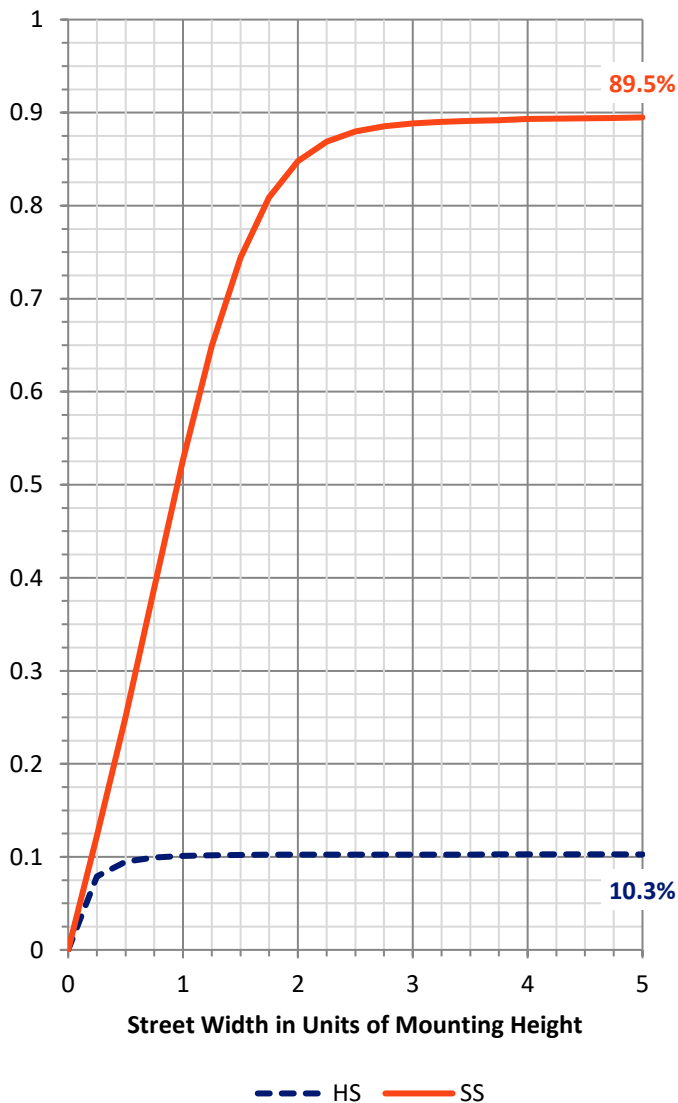
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2394.1   | 0.0    | 2394.1  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 20727.9  | 0.0    | 20727.9 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 23122.0  | 0.0    | 23122.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 242.3   | 1.0       |
| 10°-20°   | 660.0   | 2.9       |
| 20°-30°   | 1145.5  | 5.0       |
| 30°-40°   | 2105.0  | 9.1       |
| 40°-50°   | 3962.5  | 17.1      |
| 50°-60°   | 6777.6  | 29.3      |
| 60°-70°   | 6489.6  | 28.1      |
| 70°-80°   | 1654.9  | 7.2       |
| 80°-90°   | 84.6    | 0.4       |
| 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°    | 23122.0 | 100.0     |
| 0°-180°   | 23122.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P456185

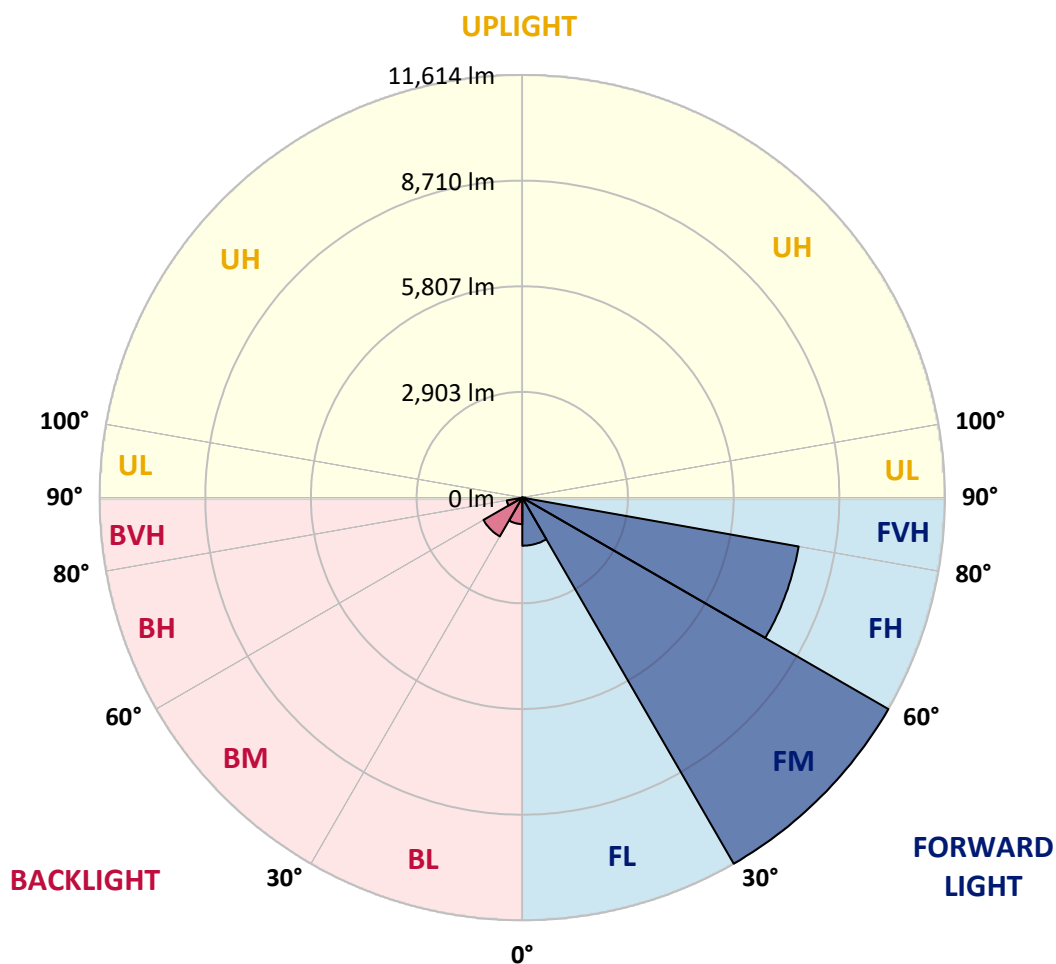
CATALOG NUMBER: GLAN-SA7B-830-U-T3-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1321.8  | 5.7       |                         |      |          |
| FM   | (30°-60°)   | 11613.7 | 50.2      |                         |      |          |
| FH   | (60°-80°)   | 7711.1  | 33.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 81.3    | 0.4       |                         |      | G1/100   |
| BL   | (0°-30°)    | 726.1   | 3.1       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1231.4  | 5.3       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 433.4   | 1.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 3.3     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P456185

CATALOG NUMBER: GLAN-SA7B-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  | 2588.6  |
| 2.5°  | 2524.2  | 2532.9  | 2541.6  | 2545.1  | 2557.3  | 2569.4  | 2578.2  | 2576.4  | 2590.3  | 2597.3  | 2597.3  |
| 5°    | 2423.2  | 2423.2  | 2445.9  | 2466.7  | 2501.6  | 2536.4  | 2569.4  | 2576.4  | 2602.5  | 2626.9  | 2635.6  |
| 7.5°  | 2337.9  | 2343.1  | 2360.6  | 2398.8  | 2445.9  | 2506.8  | 2572.9  | 2588.6  | 2633.9  | 2687.8  | 2710.5  |
| 10°   | 2297.9  | 2301.4  | 2324.0  | 2364.0  | 2423.2  | 2506.8  | 2599.0  | 2628.6  | 2698.3  | 2783.6  | 2814.9  |
| 12.5° | 2289.2  | 2294.4  | 2317.0  | 2362.3  | 2430.2  | 2531.2  | 2656.5  | 2687.8  | 2788.8  | 2898.5  | 2945.5  |
| 15°   | 2304.8  | 2308.3  | 2331.0  | 2379.7  | 2454.6  | 2574.7  | 2733.1  | 2776.6  | 2896.7  | 3023.8  | 3084.7  |
| 17.5° | 2360.6  | 2357.1  | 2372.7  | 2412.8  | 2496.3  | 2628.6  | 2825.3  | 2877.6  | 3018.6  | 3192.7  | 3232.7  |
| 20°   | 2597.3  | 2574.7  | 2560.7  | 2525.9  | 2559.0  | 2705.2  | 2936.8  | 3013.4  | 3187.4  | 3365.0  | 3392.9  |
| 22.5° | 3107.4  | 3056.9  | 2957.7  | 2821.9  | 2717.4  | 2809.7  | 3070.8  | 3159.6  | 3384.2  | 3558.2  | 3558.2  |
| 25°   | 3756.7  | 3692.3  | 3593.0  | 3297.1  | 3041.2  | 2982.0  | 3222.3  | 3333.7  | 3598.3  | 3774.1  | 3716.6  |
| 27.5° | 4569.6  | 4519.2  | 4325.9  | 3981.3  | 3589.6  | 3283.2  | 3398.1  | 3500.8  | 3788.0  | 4000.4  | 3880.3  |
| 30°   | 5231.2  | 5206.8  | 5048.4  | 4740.2  | 4308.5  | 3861.1  | 3725.4  | 3793.2  | 4040.4  | 4285.9  | 4162.3  |
| 32.5° | 5790.0  | 5790.0  | 5628.1  | 5340.8  | 4937.0  | 4540.1  | 4280.7  | 4329.4  | 4566.2  | 4849.9  | 4620.1  |
| 35°   | 6404.5  | 6383.6  | 6253.0  | 5979.7  | 5527.1  | 5177.2  | 5071.0  | 5137.2  | 5351.3  | 5561.9  | 4996.1  |
| 37.5° | 7050.3  | 7043.4  | 6907.6  | 6643.0  | 6273.9  | 5833.5  | 5584.5  | 5602.0  | 5711.6  | 5840.4  | 5436.6  |
| 40°   | 7751.9  | 7762.3  | 7584.7  | 7421.1  | 7072.9  | 6622.1  | 6145.1  | 6035.4  | 6138.1  | 6502.0  | 6249.5  |
| 42.5° | 8580.5  | 8556.1  | 8479.5  | 8256.7  | 7976.4  | 7706.6  | 7133.9  | 7093.8  | 7184.4  | 7574.3  | 7301.0  |
| 45°   | 9543.2  | 9578.0  | 9445.7  | 9322.1  | 9134.1  | 8909.5  | 8430.8  | 8361.2  | 8460.4  | 9066.2  | 8678.0  |
| 47.5° | 10507.6 | 10474.5 | 10559.8 | 10537.2 | 10638.1 | 10471.0 | 10048.0 | 9905.3  | 10143.8 | 10718.2 | 10147.2 |
| 50°   | 11242.2 | 11278.8 | 11456.3 | 11715.7 | 12149.2 | 12243.2 | 11837.6 | 11788.8 | 11895.0 | 12264.1 | 11461.6 |
| 52.5° | 11719.2 | 11841.0 | 12119.6 | 12786.3 | 13567.9 | 14175.5 | 13867.4 | 13841.2 | 13797.7 | 13897.0 | 12718.4 |
| 55°   | 12030.8 | 12154.4 | 12518.2 | 13500.0 | 14845.7 | 15832.7 | 15848.4 | 15737.0 | 15449.8 | 15378.4 | 13893.5 |
| 57.5° | 11839.3 | 11863.7 | 12382.4 | 13695.0 | 15554.2 | 17014.8 | 17526.6 | 17415.1 | 16884.2 | 16614.4 | 14931.0 |
| 60°   | 10641.6 | 10692.1 | 11414.5 | 12956.9 | 15246.1 | 17401.2 | 18638.9 | 18588.5 | 18007.0 | 17702.4 | 15738.7 |
| 62.5° | 8519.6  | 8665.8  | 9409.1  | 11129.1 | 13813.4 | 16750.2 | 19089.8 | 19232.6 | 18780.0 | 18360.4 | 15992.9 |
| 63°   | 8129.6  | 8082.6  | 8867.7  | 10596.4 | 13433.9 | 16428.1 | 19096.8 | 19277.8 | 18814.8 | 18423.1 | 15923.3 |
| 65°   | 6018.0  | 6159.0  | 6669.1  | 8355.9  | 11179.5 | 14929.3 | 18666.8 | 18987.1 | 18685.9 | 18146.3 | 15152.1 |
| 67.5° | 3378.9  | 3372.0  | 3936.0  | 5467.9  | 7825.0  | 11710.5 | 16879.0 | 17556.2 | 17493.5 | 16283.6 | 12560.0 |
| 70°   | 1653.8  | 1679.9  | 1911.4  | 2834.1  | 4538.3  | 8079.1  | 14025.8 | 14756.9 | 14779.6 | 12789.8 | 8684.9  |
| 72.5° | 748.6   | 760.7   | 926.1   | 1380.5  | 2332.7  | 4301.6  | 9665.0  | 10363.1 | 10234.3 | 8150.5  | 4796.0  |
| 75°   | 395.2   | 421.3   | 510.1   | 694.6   | 1124.6  | 1773.9  | 5257.3  | 5932.7  | 5662.9  | 3723.6  | 1765.2  |
| 77.5° | 292.5   | 301.2   | 346.4   | 442.2   | 602.3   | 691.1   | 2268.3  | 2698.3  | 2527.7  | 1347.4  | 584.9   |
| 80°   | 214.1   | 221.1   | 257.6   | 313.3   | 379.5   | 351.6   | 854.7   | 980.1   | 879.1   | 457.8   | 179.3   |
| 82.5° | 130.6   | 132.3   | 188.0   | 233.3   | 238.5   | 196.7   | 282.0   | 302.9   | 316.8   | 257.6   | 97.5    |
| 85°   | 47.0    | 59.2    | 127.1   | 168.9   | 141.0   | 99.2    | 118.4   | 130.6   | 142.7   | 163.6   | 57.4    |
| 87.5° | 5.2     | 7.0     | 60.9    | 81.8    | 40.0    | 36.6    | 43.5    | 48.7    | 52.2    | 60.9    | 27.9    |
| 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: P456185  
 CATALOG NUMBER: GLAN-SA7B-830-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2588.6  | 2588.6 | 2588.6 | 2588.6 | 2588.6 | 2588.6 | 2588.6 | 2588.6 | 2588.6 | 2588.6 | 2588.6 |
| 2.5°  | 2604.3  | 2611.2 | 2606.0 | 2597.3 | 2595.6 | 2590.3 | 2579.9 | 2579.9 | 2579.9 | 2583.4 | 2579.9 |
| 5°    | 2642.6  | 2647.8 | 2635.6 | 2618.2 | 2599.0 | 2574.7 | 2548.6 | 2532.9 | 2531.2 | 2527.7 | 2519.0 |
| 7.5°  | 2715.7  | 2722.6 | 2694.8 | 2653.0 | 2600.8 | 2541.6 | 2485.9 | 2433.7 | 2409.3 | 2390.1 | 2390.1 |
| 10°   | 2821.9  | 2828.8 | 2773.1 | 2698.3 | 2593.8 | 2473.7 | 2341.4 | 2221.3 | 2127.3 | 2083.8 | 2073.3 |
| 12.5° | 2948.9  | 2952.4 | 2860.2 | 2729.6 | 2557.3 | 2325.7 | 2043.7 | 1780.9 | 1598.1 | 1514.5 | 1505.8 |
| 15°   | 3088.2  | 3063.8 | 2942.0 | 2741.8 | 2452.8 | 2021.1 | 1533.7 | 1211.6 | 1021.9 | 966.2  | 987.0  |
| 17.5° | 3229.2  | 3184.0 | 3004.7 | 2722.6 | 2217.8 | 1533.7 | 1030.6 | 826.9  | 767.7  | 752.0  | 752.0  |
| 20°   | 3361.5  | 3298.9 | 3049.9 | 2639.1 | 1810.5 | 1056.7 | 764.2  | 715.5  | 705.0  | 694.6  | 696.3  |
| 22.5° | 3493.8  | 3398.1 | 3090.0 | 2452.8 | 1349.1 | 755.5  | 684.1  | 668.5  | 654.5  | 640.6  | 638.9  |
| 25°   | 3622.6  | 3490.3 | 3105.6 | 2108.1 | 919.2  | 649.3  | 625.0  | 604.1  | 576.2  | 560.5  | 557.1  |
| 27.5° | 3756.7  | 3601.8 | 3095.2 | 1672.9 | 670.2  | 581.4  | 557.1  | 527.5  | 494.4  | 466.5  | 466.5  |
| 30°   | 4014.3  | 3814.1 | 3058.6 | 1202.9 | 564.0  | 511.8  | 480.5  | 433.5  | 396.9  | 369.1  | 367.3  |
| 32.5° | 4366.0  | 4090.9 | 2933.3 | 846.0  | 501.4  | 450.9  | 403.9  | 351.6  | 313.3  | 292.5  | 292.5  |
| 35°   | 4679.3  | 4369.5 | 2698.3 | 623.2  | 450.9  | 391.7  | 334.2  | 283.8  | 254.2  | 240.2  | 235.0  |
| 37.5° | 5156.3  | 4776.8 | 2374.5 | 506.6  | 402.1  | 339.5  | 280.3  | 233.3  | 208.9  | 198.5  | 198.5  |
| 40°   | 5871.8  | 5274.7 | 1977.6 | 443.9  | 355.1  | 289.0  | 233.3  | 196.7  | 177.6  | 165.4  | 165.4  |
| 42.5° | 6759.6  | 5884.0 | 1575.4 | 398.6  | 311.6  | 248.9  | 195.0  | 167.1  | 149.7  | 141.0  | 139.3  |
| 45°   | 7877.2  | 6526.3 | 1213.4 | 356.9  | 276.8  | 212.4  | 165.4  | 141.0  | 123.6  | 118.4  | 120.1  |
| 47.5° | 9043.6  | 7092.1 | 940.0  | 320.3  | 240.2  | 179.3  | 141.0  | 121.9  | 109.7  | 102.7  | 102.7  |
| 50°   | 10039.3 | 7482.0 | 713.7  | 278.5  | 212.4  | 151.5  | 123.6  | 109.7  | 99.2   | 95.7   | 94.0   |
| 52.5° | 10871.4 | 7595.2 | 546.6  | 242.0  | 186.3  | 130.6  | 109.7  | 99.2   | 90.5   | 85.3   | 85.3   |
| 55°   | 11579.9 | 7496.0 | 428.2  | 203.7  | 156.7  | 113.2  | 97.5   | 88.8   | 78.3   | 73.1   | 71.4   |
| 57.5° | 11994.2 | 7177.4 | 327.3  | 168.9  | 127.1  | 94.0   | 85.3   | 74.9   | 62.7   | 54.0   | 54.0   |
| 60°   | 12203.1 | 6714.3 | 250.7  | 139.3  | 97.5   | 74.9   | 69.6   | 55.7   | 43.5   | 36.6   | 34.8   |
| 62.5° | 11952.5 | 6099.8 | 189.7  | 109.7  | 73.1   | 55.7   | 47.0   | 40.0   | 27.9   | 20.9   | 20.9   |
| 63°   | 11797.5 | 5922.3 | 182.8  | 104.4  | 67.9   | 52.2   | 43.5   | 36.6   | 24.4   | 19.1   | 17.4   |
| 65°   | 10754.8 | 5147.6 | 149.7  | 83.6   | 54.0   | 36.6   | 29.6   | 26.1   | 17.4   | 8.7    | 7.0    |
| 67.5° | 8540.5  | 3937.7 | 118.4  | 62.7   | 38.3   | 26.1   | 17.4   | 15.7   | 5.2    | 0.0    | 0.0    |
| 70°   | 5774.3  | 2543.3 | 92.3   | 45.3   | 26.1   | 15.7   | 8.7    | 7.0    | 1.7    | 0.0    | 0.0    |
| 72.5° | 3011.6  | 1303.9 | 71.4   | 33.1   | 15.7   | 10.4   | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    |
| 75°   | 1065.4  | 443.9  | 52.2   | 20.9   | 10.4   | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 322.1   | 165.4  | 33.1   | 15.7   | 7.0    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 113.2   | 60.9   | 19.1   | 10.4   | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 55.7    | 29.6   | 12.2   | 8.7    | 5.2    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 31.3    | 19.1   | 10.4   | 8.7    | 5.2    | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 22.6    | 13.9   | 10.4   | 8.7    | 7.0    | 3.5    | 1.7    | 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)