

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: P527841

Luminaire Tested: **GLAN-SA2D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2D-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6675 lumens  
Efficiency: N/A  
Efficacy: 53.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

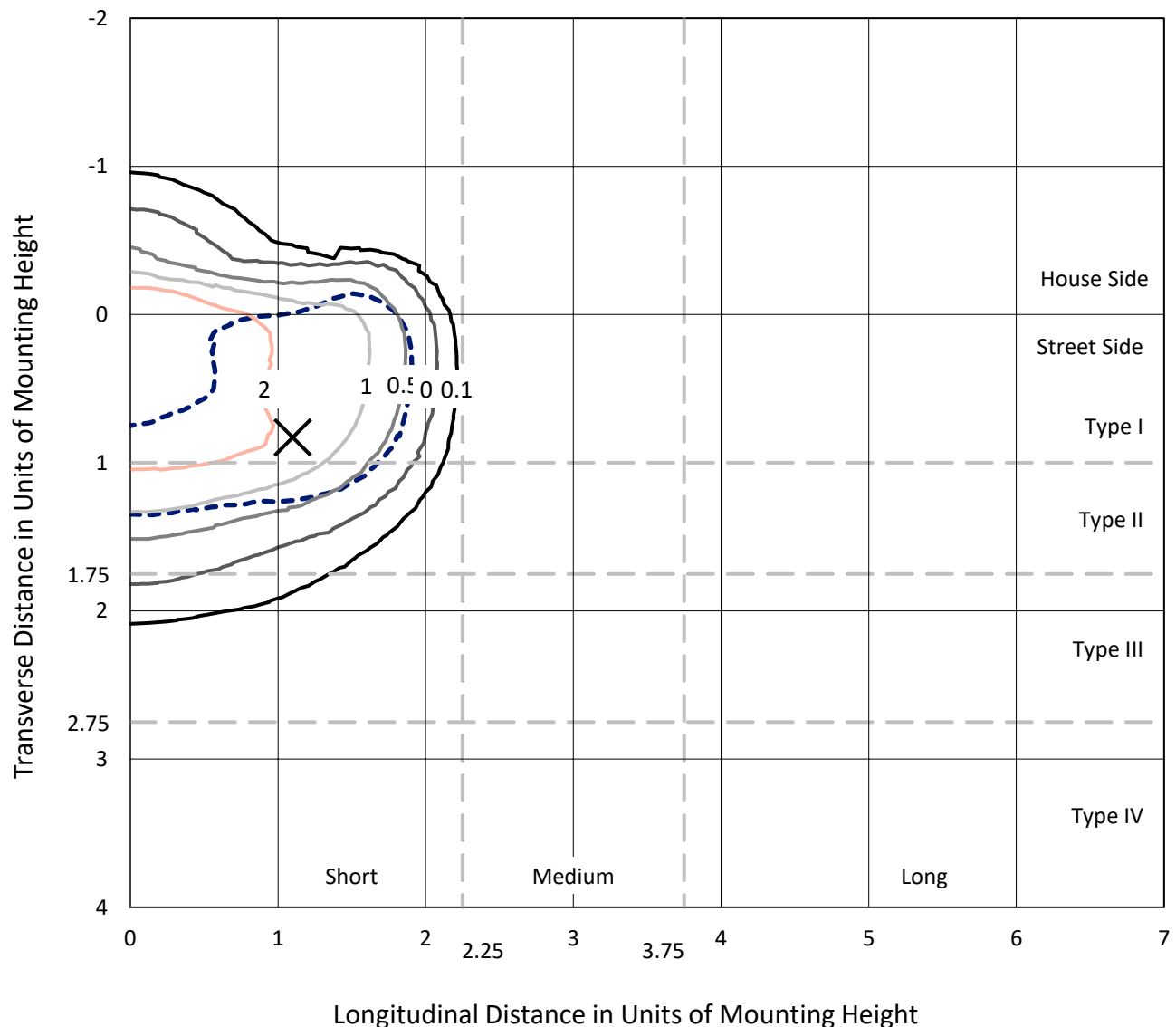
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527841  
 CATALOG NUMBER: GLAN-SA2D-827-U-SL2-GRSBK

## Iso-Footcandle Lines of Horizontal Illumination

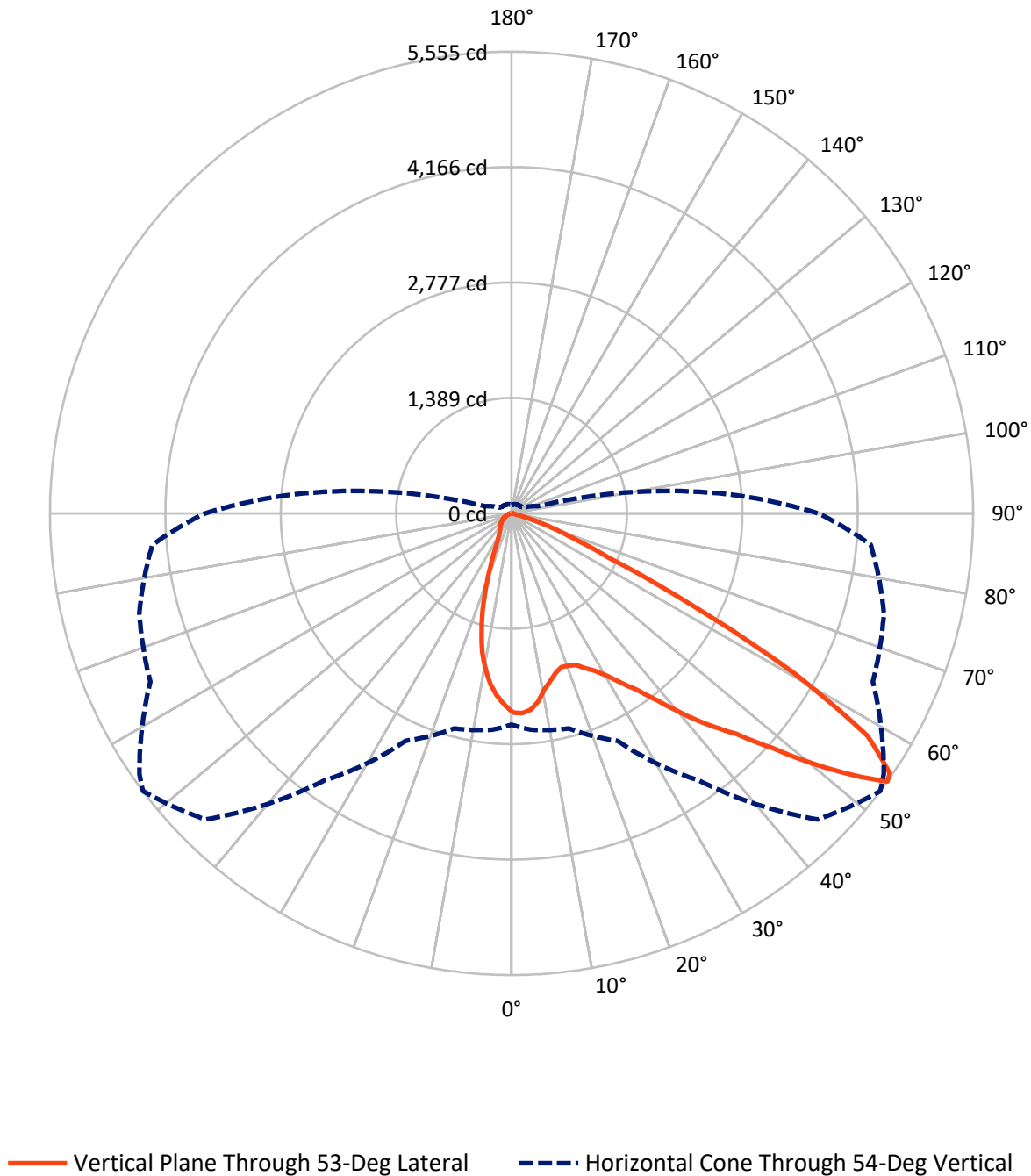
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P527841  
CATALOG NUMBER: GLAN-SA2D-827-U-SL2-GRSBK

## Luminous Intensity Polar Plot



REPORT NUMBER: P527841

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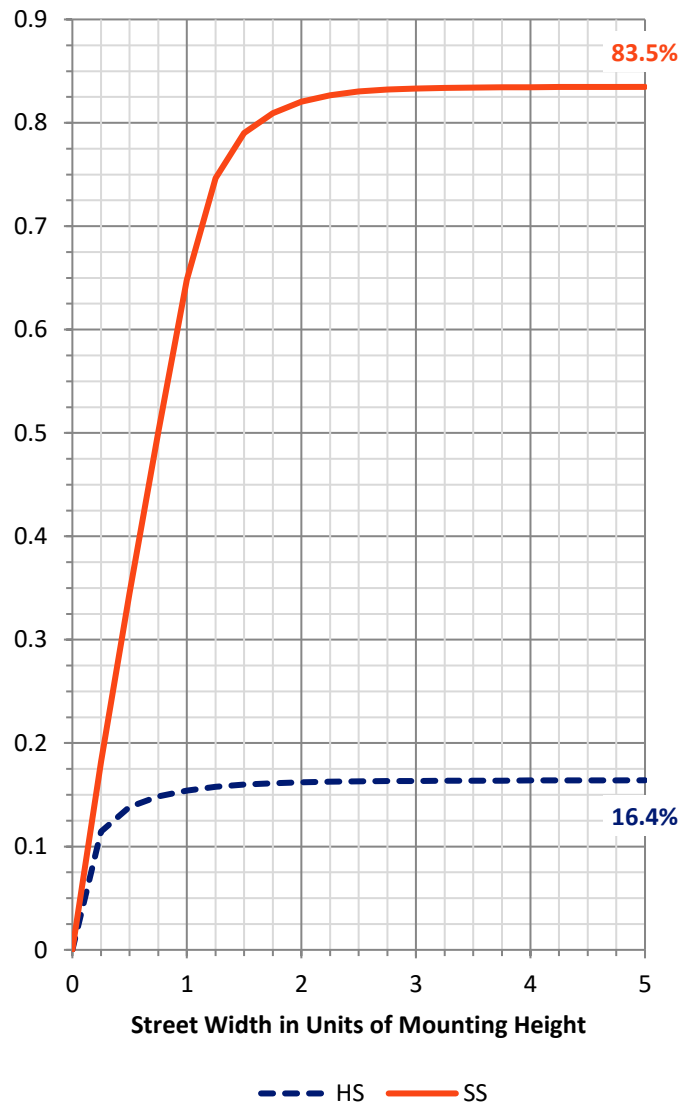
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1104.4   | 0.0    | 1104.4 |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 5570.6   | 0.0    | 5570.6 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 6675.0   | 0.0    | 6675.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 205.7  | 3.1       |
| 10°-20°   | 471.6  | 7.1       |
| 20°-30°   | 670.3  | 10.0      |
| 30°-40°   | 1034.4 | 15.5      |
| 40°-50°   | 1621.8 | 24.3      |
| 50°-60°   | 1884.0 | 28.2      |
| 60°-70°   | 711.9  | 10.7      |
| 70°-80°   | 67.7   | 1.0       |
| 80°-90°   | 7.6    | 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°    | 6675.0 | 100.0     |
| 0°-180°   | 6675.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P527841

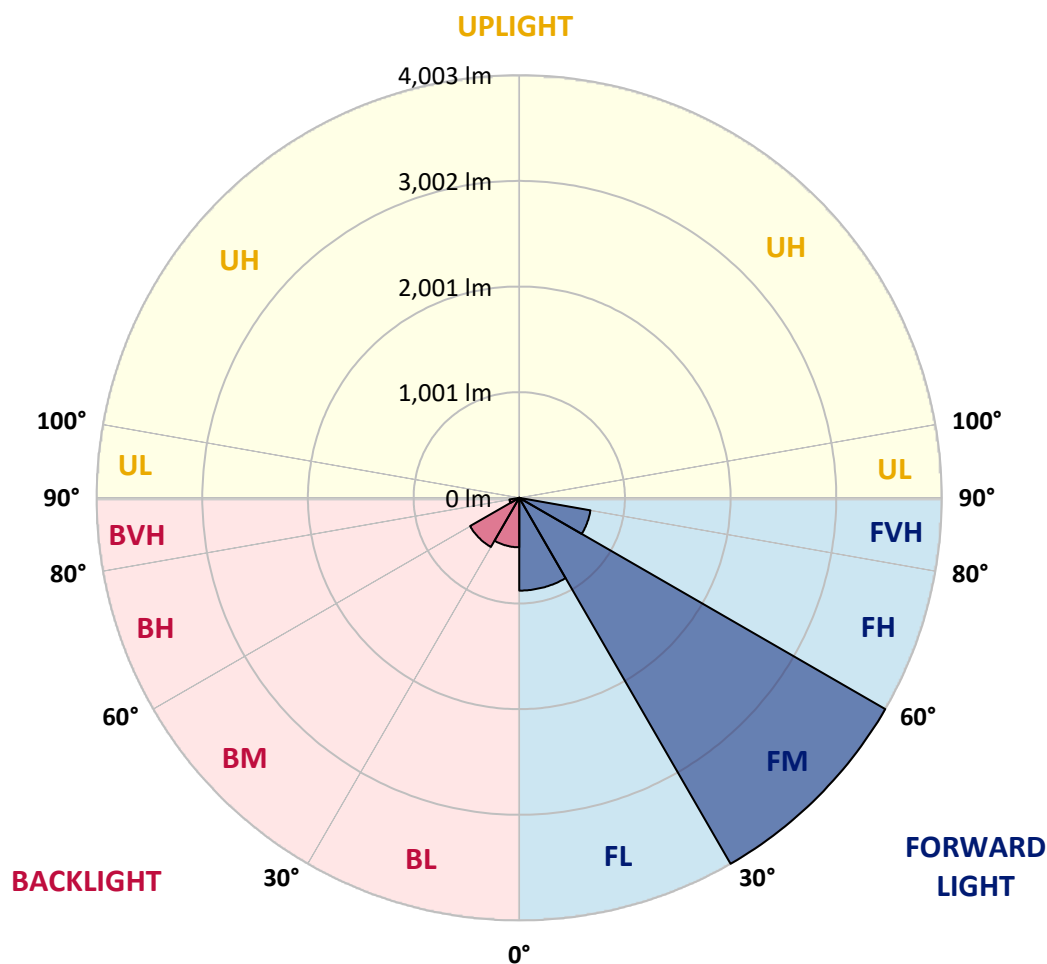
CATALOG NUMBER: GLAN-SA2D-827-U-SL2-GRSBK

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 878.9  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 4002.8 | 60.0      |                         |      |         |
| FH   | (60°-80°)   | 685.0  | 10.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 3.9    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 468.7  | 7.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 537.4  | 8.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 94.6   | 1.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 3.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P527841

CATALOG NUMBER: GLAN-SA2D-827-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 |
| 2.5°  | 2385.1 | 2364.0 | 2385.1 | 2387.6 | 2402.5 | 2416.2 | 2407.5 | 2427.4 | 2416.2 | 2403.8 | 2400.0 |
| 5°    | 2192.4 | 2221.0 | 2222.2 | 2267.0 | 2257.0 | 2339.1 | 2375.2 | 2365.2 | 2426.1 | 2422.4 | 2413.7 |
| 7.5°  | 2019.5 | 2008.3 | 2023.2 | 2075.5 | 2141.4 | 2235.9 | 2288.1 | 2286.9 | 2373.9 | 2436.1 | 2429.9 |
| 10°   | 1859.1 | 1857.9 | 1888.9 | 1930.0 | 1985.9 | 2085.4 | 2157.5 | 2193.6 | 2329.2 | 2423.7 | 2437.3 |
| 12.5° | 1750.9 | 1745.9 | 1779.5 | 1813.1 | 1901.4 | 1978.5 | 2070.5 | 2087.9 | 2243.3 | 2380.1 | 2402.5 |
| 15°   | 1680.0 | 1691.2 | 1693.7 | 1758.4 | 1814.3 | 1916.3 | 1988.4 | 2024.5 | 2203.6 | 2345.3 | 2431.1 |
| 17.5° | 1667.6 | 1682.5 | 1683.8 | 1737.2 | 1796.9 | 1882.7 | 1946.1 | 1994.6 | 2170.0 | 2362.7 | 2432.4 |
| 20°   | 1692.5 | 1683.8 | 1691.2 | 1724.8 | 1783.2 | 1865.3 | 1957.3 | 1973.5 | 2158.8 | 2371.4 | 2446.0 |
| 22.5° | 1763.3 | 1760.9 | 1742.2 | 1769.6 | 1810.6 | 1896.4 | 1983.4 | 2008.3 | 2191.1 | 2416.2 | 2457.2 |
| 25°   | 1841.7 | 1855.4 | 1838.0 | 1834.2 | 1862.8 | 1947.4 | 2063.0 | 2095.4 | 2299.3 | 2497.0 | 2492.1 |
| 27.5° | 1988.4 | 1974.7 | 1974.7 | 1957.3 | 1949.9 | 1990.9 | 2148.8 | 2202.3 | 2419.9 | 2601.5 | 2531.8 |
| 30°   | 2128.9 | 2143.9 | 2132.7 | 2138.9 | 2089.1 | 2085.4 | 2270.7 | 2336.6 | 2633.8 | 2760.7 | 2616.4 |
| 32.5° | 2351.5 | 2331.6 | 2350.3 | 2334.1 | 2268.2 | 2201.1 | 2436.1 | 2504.5 | 2892.5 | 2943.5 | 2743.3 |
| 35°   | 2536.8 | 2528.1 | 2607.7 | 2605.2 | 2498.3 | 2432.4 | 2611.4 | 2713.4 | 3072.8 | 3162.3 | 2892.5 |
| 37.5° | 2800.5 | 2784.3 | 2875.1 | 2918.6 | 2822.8 | 2724.6 | 2862.6 | 2980.8 | 3240.7 | 3337.7 | 3045.4 |
| 40°   | 3071.5 | 3112.6 | 3234.5 | 3306.6 | 3204.6 | 3074.0 | 3169.8 | 3205.8 | 3352.6 | 3452.1 | 3149.9 |
| 42.5° | 3414.8 | 3474.5 | 3598.8 | 3661.0 | 3652.3 | 3510.5 | 3481.9 | 3480.7 | 3433.4 | 3419.7 | 3227.0 |
| 45°   | 3744.3 | 3721.9 | 3913.4 | 4049.0 | 4158.4 | 4117.4 | 3782.9 | 3745.5 | 3561.5 | 3468.2 | 3246.9 |
| 47.5° | 3888.6 | 3881.1 | 4011.7 | 4252.9 | 4626.0 | 4677.0 | 4220.6 | 4076.3 | 3777.9 | 3672.2 | 3355.1 |
| 50°   | 3702.0 | 3740.6 | 3869.9 | 4137.3 | 4709.3 | 5098.5 | 4757.8 | 4563.8 | 4030.3 | 3920.9 | 3611.2 |
| 52.5° | 3092.7 | 3118.8 | 3241.9 | 3581.4 | 4425.8 | 5347.2 | 5272.6 | 5160.7 | 4494.2 | 4312.6 | 4057.7 |
| 54°   | 2543.0 | 2612.7 | 2679.8 | 3020.6 | 3920.9 | 5209.2 | 5554.9 | 5469.1 | 4796.3 | 4638.4 | 4338.7 |
| 55°   | 2214.7 | 2255.8 | 2304.3 | 2643.8 | 3571.5 | 4975.4 | 5522.6 | 5530.0 | 4999.0 | 4740.4 | 4527.7 |
| 57.5° | 1617.8 | 1646.4 | 1596.7 | 1747.2 | 2452.3 | 4040.3 | 5051.3 | 5252.7 | 5272.6 | 4893.3 | 4643.4 |
| 60°   | 1236.1 | 1248.5 | 1192.6 | 1216.2 | 1524.6 | 2773.1 | 3907.2 | 4149.7 | 4756.5 | 4276.5 | 3933.3 |
| 62.5° | 958.8  | 961.3  | 960.0  | 1001.1 | 1050.8 | 1631.5 | 2443.6 | 2658.7 | 3279.2 | 3036.7 | 2671.1 |
| 65°   | 706.3  | 695.1  | 715.0  | 839.4  | 896.6  | 1025.9 | 1287.1 | 1443.8 | 1782.0 | 1504.7 | 1075.7 |
| 67.5° | 457.6  | 461.4  | 481.3  | 624.3  | 768.5  | 787.2  | 792.1  | 779.7  | 780.9  | 430.3  | 269.8  |
| 70°   | 274.8  | 281.0  | 274.8  | 353.2  | 549.6  | 564.6  | 516.1  | 503.6  | 393.0  | 102.0  | 100.7  |
| 72.5° | 162.9  | 154.2  | 138.0  | 151.7  | 228.8  | 273.6  | 246.2  | 245.0  | 154.2  | 59.7   | 59.7   |
| 75°   | 68.4   | 62.2   | 51.0   | 46.0   | 60.9   | 58.4   | 58.4   | 52.2   | 41.0   | 39.8   | 37.3   |
| 77.5° | 13.7   | 13.7   | 9.9    | 11.2   | 14.9   | 17.4   | 21.1   | 21.1   | 24.9   | 24.9   | 23.6   |
| 80°   | 0.0    | 1.2    | 3.7    | 7.5    | 11.2   | 16.2   | 18.7   | 18.7   | 21.1   | 21.1   | 17.4   |
| 82.5° | 0.0    | 1.2    | 3.7    | 7.5    | 9.9    | 14.9   | 18.7   | 18.7   | 21.1   | 22.4   | 18.7   |
| 85°   | 0.0    | 1.2    | 3.7    | 6.2    | 9.9    | 12.4   | 12.4   | 11.2   | 8.7    | 7.5    | 5.0    |
| 87.5° | 0.0    | 0.0    | 1.2    | 2.5    | 1.2    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    |
| 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: P527841

CATALOG NUMBER: GLAN-SA2D-827-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 | 2397.5 |
| 2.5°  | 2408.7 | 2407.5 | 2377.7 | 2329.2 | 2318.0 | 2276.9 | 2271.9 | 2247.1 | 2260.8 | 2214.7 | 2209.8 |
| 5°    | 2388.8 | 2373.9 | 2337.9 | 2306.8 | 2216.0 | 2151.3 | 2100.3 | 2038.2 | 2002.1 | 2008.3 | 1984.7 |
| 7.5°  | 2417.4 | 2378.9 | 2315.5 | 2207.3 | 2096.6 | 1983.4 | 1922.5 | 1795.7 | 1749.7 | 1681.3 | 1671.3 |
| 10°   | 2387.6 | 2359.0 | 2260.8 | 2081.7 | 1928.7 | 1765.8 | 1622.8 | 1482.3 | 1375.4 | 1329.3 | 1319.4 |
| 12.5° | 2385.1 | 2335.4 | 2171.2 | 1972.3 | 1750.9 | 1517.1 | 1309.4 | 1134.1 | 1028.4 | 968.7  | 955.0  |
| 15°   | 2346.6 | 2286.9 | 2070.5 | 1803.1 | 1497.2 | 1206.2 | 979.9  | 810.8  | 730.0  | 695.1  | 705.1  |
| 17.5° | 2350.3 | 2260.8 | 1969.8 | 1624.1 | 1247.3 | 885.4  | 669.0  | 582.0  | 560.8  | 569.5  | 569.5  |
| 20°   | 2346.6 | 2202.3 | 1847.9 | 1417.6 | 955.0  | 614.3  | 491.2  | 460.1  | 473.8  | 501.1  | 494.9  |
| 22.5° | 2326.7 | 2175.0 | 1736.0 | 1200.0 | 702.6  | 455.1  | 394.2  | 395.4  | 416.6  | 450.2  | 457.6  |
| 25°   | 2341.6 | 2114.0 | 1594.2 | 979.9  | 512.3  | 363.1  | 342.0  | 350.7  | 373.1  | 397.9  | 402.9  |
| 27.5° | 2330.4 | 2070.5 | 1446.2 | 761.0  | 374.3  | 312.1  | 310.9  | 320.8  | 330.8  | 349.4  | 349.4  |
| 30°   | 2342.8 | 2030.7 | 1300.7 | 565.8  | 308.4  | 286.0  | 281.0  | 288.5  | 298.4  | 302.2  | 300.9  |
| 32.5° | 2388.8 | 2000.9 | 1132.9 | 422.8  | 272.3  | 261.1  | 261.1  | 261.1  | 259.9  | 264.9  | 266.1  |
| 35°   | 2489.6 | 2005.8 | 984.9  | 327.1  | 248.7  | 240.0  | 236.3  | 231.3  | 228.8  | 231.3  | 232.5  |
| 37.5° | 2599.0 | 2003.3 | 831.9  | 278.6  | 231.3  | 223.8  | 215.1  | 207.7  | 206.4  | 208.9  | 205.2  |
| 40°   | 2647.5 | 2027.0 | 690.2  | 250.0  | 215.1  | 206.4  | 192.7  | 186.5  | 187.8  | 190.3  | 187.8  |
| 42.5° | 2713.4 | 2034.4 | 598.1  | 227.6  | 200.2  | 186.5  | 177.8  | 170.4  | 169.1  | 172.9  | 171.6  |
| 45°   | 2712.2 | 1992.2 | 501.1  | 215.1  | 186.5  | 171.6  | 160.4  | 154.2  | 154.2  | 156.7  | 157.9  |
| 47.5° | 2791.8 | 1985.9 | 430.3  | 203.9  | 176.6  | 161.7  | 148.0  | 143.0  | 141.8  | 141.8  | 139.3  |
| 50°   | 2977.0 | 2073.0 | 375.5  | 191.5  | 164.1  | 150.5  | 139.3  | 133.1  | 128.1  | 125.6  | 124.4  |
| 52.5° | 3338.9 | 2344.1 | 333.3  | 176.6  | 150.5  | 139.3  | 129.3  | 124.4  | 118.1  | 111.9  | 110.7  |
| 54°   | 3689.6 | 2623.9 | 330.8  | 164.1  | 139.3  | 131.8  | 123.1  | 120.6  | 113.2  | 104.5  | 102.0  |
| 55°   | 3847.5 | 2786.8 | 339.5  | 154.2  | 131.8  | 126.8  | 119.4  | 116.9  | 109.4  | 99.5   | 98.2   |
| 57.5° | 3978.1 | 2850.2 | 334.5  | 128.1  | 119.4  | 118.1  | 111.9  | 108.2  | 99.5   | 85.8   | 83.3   |
| 60°   | 3202.1 | 2155.1 | 240.0  | 113.2  | 109.4  | 106.9  | 102.0  | 99.5   | 88.3   | 73.4   | 72.1   |
| 62.5° | 2023.2 | 1239.8 | 153.0  | 99.5   | 95.8   | 92.0   | 85.8   | 83.3   | 73.4   | 58.4   | 54.7   |
| 65°   | 861.8  | 513.6  | 103.2  | 88.3   | 82.1   | 75.9   | 70.9   | 67.2   | 58.4   | 43.5   | 42.3   |
| 67.5° | 223.8  | 182.8  | 85.8   | 77.1   | 68.4   | 59.7   | 56.0   | 49.7   | 39.8   | 29.8   | 28.6   |
| 70°   | 100.7  | 92.0   | 72.1   | 64.7   | 54.7   | 46.0   | 41.0   | 34.8   | 26.1   | 19.9   | 18.7   |
| 72.5° | 59.7   | 58.4   | 54.7   | 48.5   | 41.0   | 34.8   | 29.8   | 23.6   | 17.4   | 11.2   | 11.2   |
| 75°   | 37.3   | 36.1   | 37.3   | 33.6   | 28.6   | 26.1   | 22.4   | 16.2   | 9.9    | 5.0    | 5.0    |
| 77.5° | 22.4   | 22.4   | 22.4   | 21.1   | 19.9   | 19.9   | 16.2   | 9.9    | 5.0    | 1.2    | 1.2    |
| 80°   | 17.4   | 17.4   | 18.7   | 17.4   | 17.4   | 17.4   | 13.7   | 7.5    | 2.5    | 0.0    | 0.0    |
| 82.5° | 17.4   | 18.7   | 21.1   | 19.9   | 17.4   | 14.9   | 12.4   | 7.5    | 2.5    | 0.0    | 0.0    |
| 85°   | 5.0    | 3.7    | 6.2    | 8.7    | 12.4   | 11.2   | 8.7    | 6.2    | 2.5    | 0.0    | 0.0    |
| 87.5° | 2.5    | 2.5    | 2.5    | 2.5    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 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)