

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: P650326

Luminaire Tested: **GLAN-SA3B-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3B-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10413.1 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

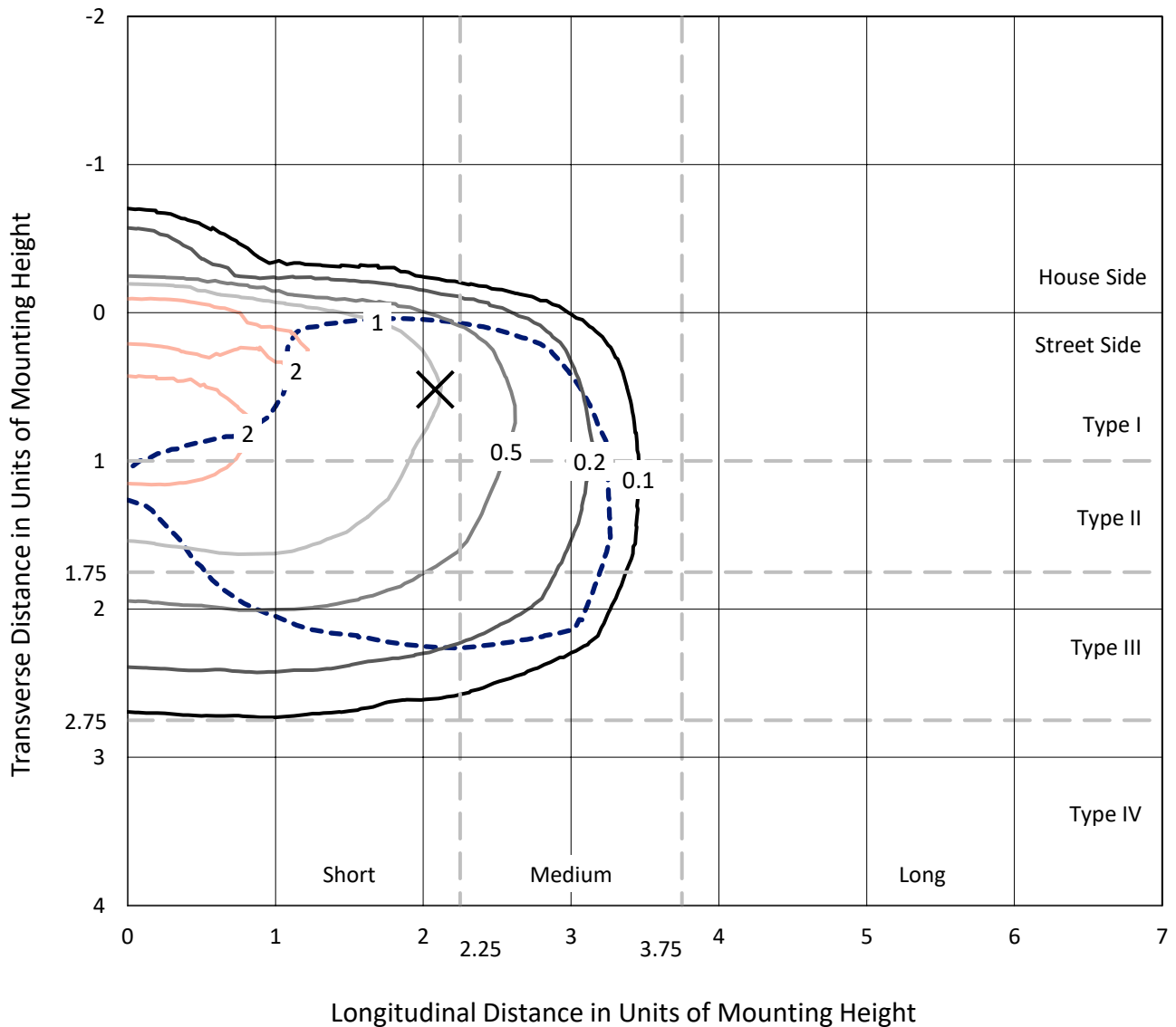
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650326  
 CATALOG NUMBER: GLAN-SA3B-835-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

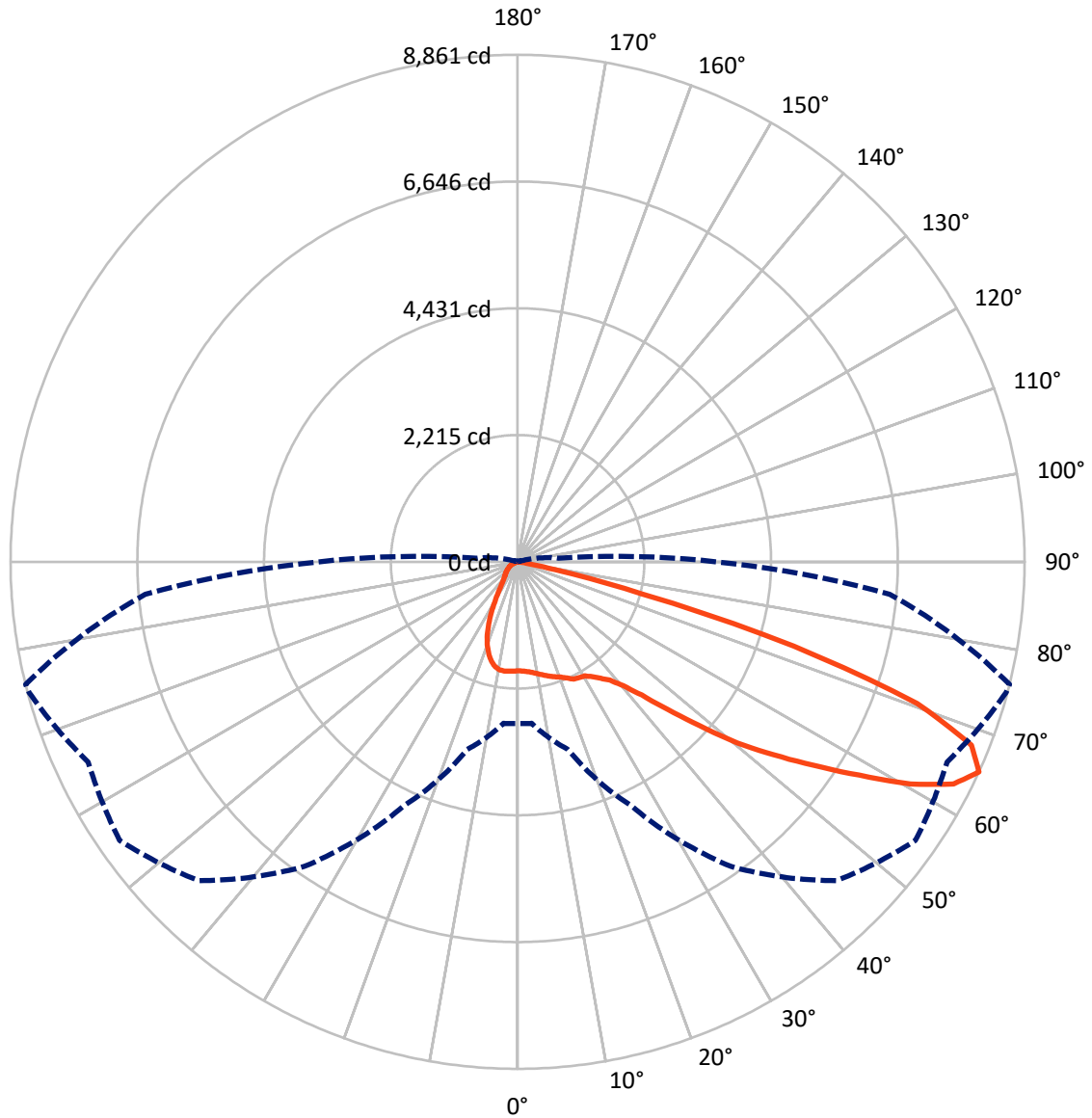
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P650326  
CATALOG NUMBER: GLAN-SA3B-835-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P650326  
 CATALOG NUMBER: GLAN-SA3B-835-U-T3R-HSS

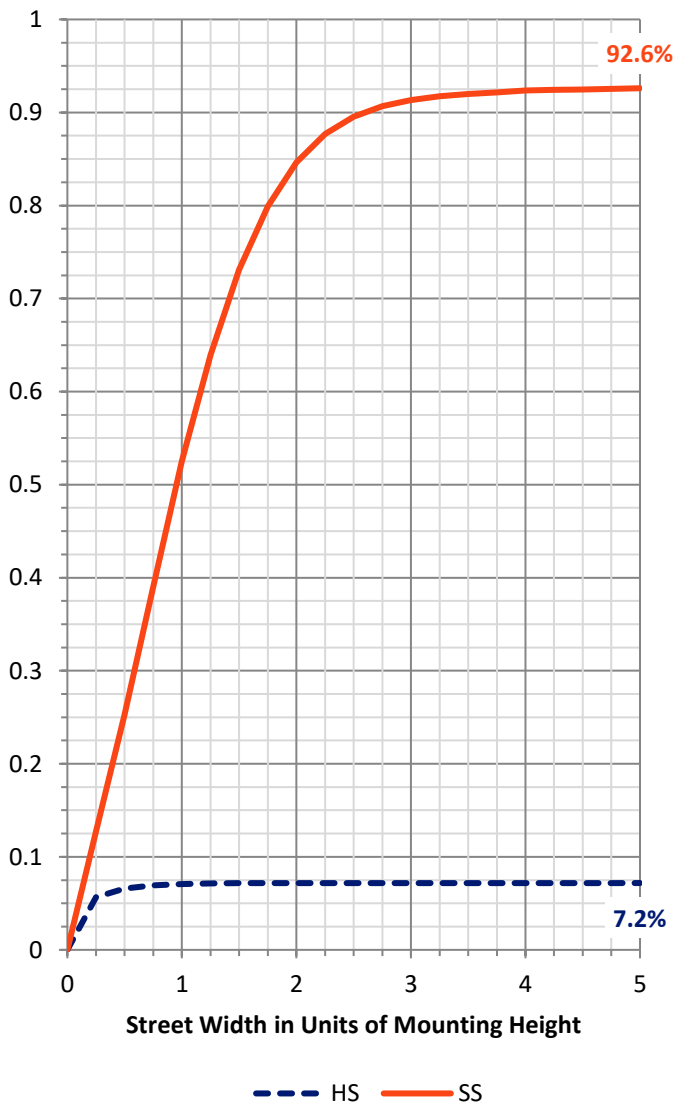
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 752.0    | 0.0    | 752.0   |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 9661.1   | 0.0    | 9661.1  |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 10413.1  | 0.0    | 10413.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 156.9   | 1.5       |
| 10°-20°   | 349.4   | 3.4       |
| 20°-30°   | 563.0   | 5.4       |
| 30°-40°   | 978.9   | 9.4       |
| 40°-50°   | 1617.6  | 15.5      |
| 50°-60°   | 2498.9  | 24.0      |
| 60°-70°   | 3051.5  | 29.3      |
| 70°-80°   | 1158.1  | 11.1      |
| 80°-90°   | 38.7    | 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°    | 10413.1 | 100.0     |
| 0°-180°   | 10413.1 | 100.0     |

**Coefficient of Utilization**



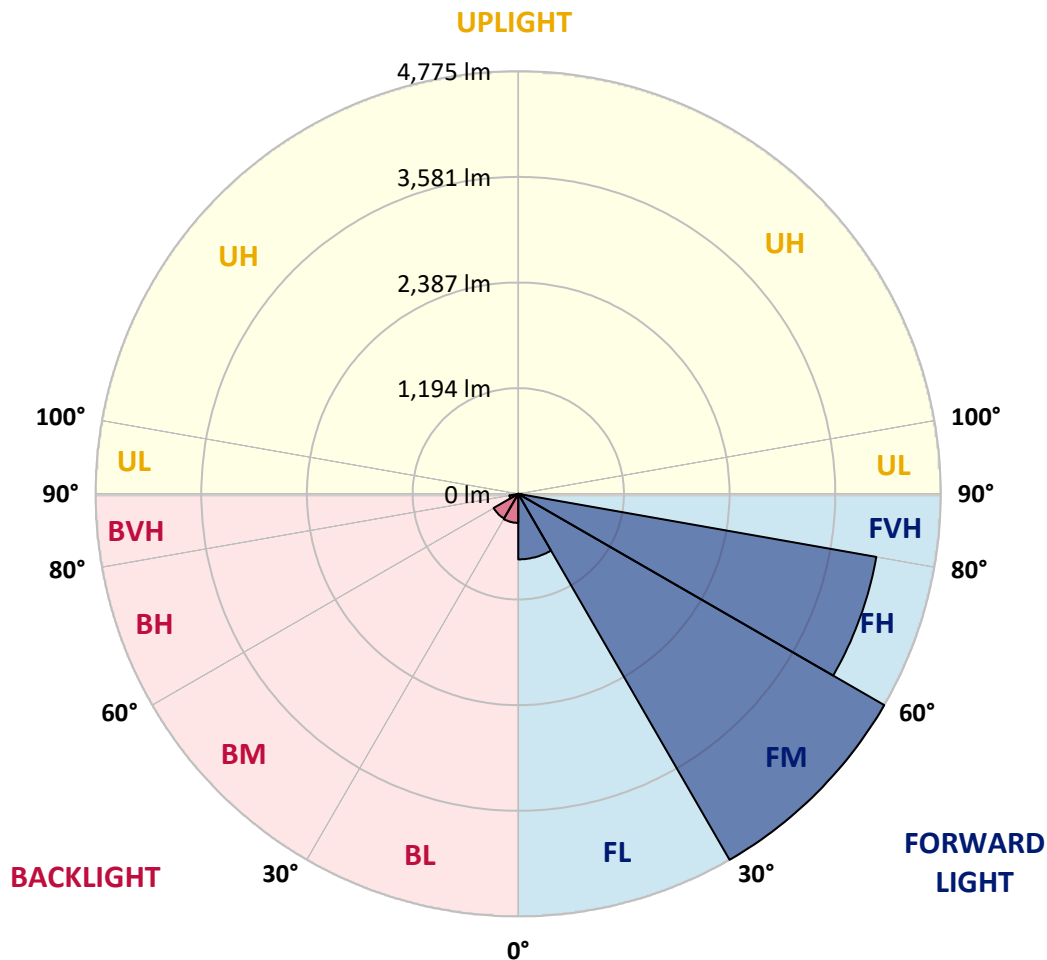
REPORT NUMBER: P650326  
 CATALOG NUMBER: GLAN-SA3B-835-U-T3R-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 740.8  | 7.1       |                         |      |         |
| FM (30°-60°)   | 4774.6 | 45.9      |                         |      |         |
| FH (60°-80°)   | 4107.6 | 39.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 38.1   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 328.5  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 320.9  | 3.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 102.0  | 1.0       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.5    | 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-G2**

Type III Short





REPORT NUMBER: P650326

CATALOG NUMBER: GLAN-SA3B-835-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 |
| 2.5°  | 1820.3 | 1821.1 | 1825.5 | 1836.5 | 1853.4 | 1867.4 | 1879.1 | 1898.3 | 1911.5 | 1912.9 | 1917.4 |
| 5°    | 1694.6 | 1685.8 | 1694.6 | 1723.3 | 1749.1 | 1788.0 | 1835.8 | 1883.6 | 1926.2 | 1929.2 | 1949.7 |
| 7.5°  | 1553.5 | 1560.8 | 1574.8 | 1604.2 | 1652.8 | 1712.3 | 1781.4 | 1866.7 | 1947.6 | 1954.9 | 1995.3 |
| 10°   | 1410.1 | 1426.3 | 1449.1 | 1493.9 | 1561.5 | 1638.7 | 1732.9 | 1854.9 | 1981.4 | 1991.6 | 2061.5 |
| 12.5° | 1277.8 | 1285.1 | 1313.1 | 1373.4 | 1457.2 | 1566.0 | 1696.1 | 1848.3 | 2018.8 | 2031.3 | 2132.0 |
| 15°   | 1176.3 | 1185.9 | 1210.1 | 1264.5 | 1357.9 | 1497.6 | 1666.0 | 1846.1 | 2055.6 | 2073.2 | 2202.7 |
| 17.5° | 1157.2 | 1163.1 | 1173.4 | 1210.1 | 1291.7 | 1443.2 | 1638.7 | 1845.4 | 2090.9 | 2112.2 | 2268.1 |
| 20°   | 1235.9 | 1230.7 | 1220.5 | 1216.8 | 1261.6 | 1401.3 | 1618.9 | 1851.2 | 2124.7 | 2148.9 | 2337.2 |
| 22.5° | 1432.9 | 1439.5 | 1379.3 | 1307.9 | 1293.2 | 1394.7 | 1616.0 | 1879.1 | 2178.4 | 2207.0 | 2414.4 |
| 25°   | 1851.2 | 1800.5 | 1706.4 | 1535.9 | 1407.1 | 1435.1 | 1649.1 | 1945.4 | 2240.9 | 2272.5 | 2484.2 |
| 27.5° | 2313.7 | 2298.2 | 2151.9 | 1871.1 | 1631.4 | 1520.4 | 1707.9 | 1996.0 | 2261.5 | 2293.8 | 2523.9 |
| 30°   | 2768.0 | 2786.4 | 2618.7 | 2308.5 | 1957.1 | 1678.4 | 1763.0 | 2015.2 | 2279.9 | 2313.7 | 2574.7 |
| 32.5° | 3189.3 | 3211.3 | 3064.3 | 2757.0 | 2340.9 | 1951.9 | 1857.8 | 2089.4 | 2357.1 | 2391.6 | 2659.2 |
| 35°   | 3520.8 | 3523.8 | 3412.8 | 3167.9 | 2759.9 | 2284.2 | 2063.0 | 2219.6 | 2461.4 | 2501.8 | 2748.9 |
| 37.5° | 3825.2 | 3820.8 | 3690.7 | 3479.7 | 3109.1 | 2614.4 | 2321.0 | 2369.5 | 2580.5 | 2622.4 | 2878.3 |
| 40°   | 4050.9 | 4053.9 | 4011.9 | 3813.4 | 3434.9 | 2919.5 | 2525.4 | 2510.0 | 2780.5 | 2846.0 | 3066.5 |
| 42.5° | 4201.7 | 4228.8 | 4249.4 | 4148.7 | 3844.4 | 3295.2 | 2839.3 | 2810.7 | 3127.5 | 3182.0 | 3332.6 |
| 45°   | 4323.6 | 4372.2 | 4475.2 | 4470.0 | 4237.7 | 3756.1 | 3270.1 | 3211.3 | 3619.3 | 3677.4 | 3671.6 |
| 47.5° | 4412.7 | 4461.9 | 4632.5 | 4735.4 | 4607.5 | 4203.1 | 3812.0 | 3761.3 | 4206.8 | 4270.0 | 4045.8 |
| 50°   | 4458.2 | 4517.0 | 4734.6 | 4933.9 | 4896.4 | 4634.0 | 4429.6 | 4432.5 | 4916.2 | 4977.3 | 4479.5 |
| 52.5° | 4351.6 | 4428.1 | 4789.1 | 5147.8 | 5220.7 | 5046.4 | 5008.1 | 5105.2 | 5547.8 | 5600.0 | 4871.4 |
| 55°   | 4011.2 | 4107.5 | 4714.8 | 5330.2 | 5596.3 | 5533.1 | 5665.4 | 5813.2 | 6238.2 | 6272.0 | 5273.6 |
| 57.5° | 3795.8 | 3898.0 | 4495.8 | 5485.3 | 6047.7 | 6144.7 | 6354.3 | 6462.3 | 6950.5 | 7036.6 | 5735.2 |
| 60°   | 3614.2 | 3694.4 | 4315.6 | 5518.3 | 6506.5 | 6893.2 | 7096.9 | 7208.6 | 7829.8 | 7885.7 | 6243.3 |
| 62.5° | 3312.1 | 3403.9 | 4011.2 | 5287.5 | 6737.3 | 7492.4 | 7914.4 | 7864.4 | 8509.9 | 8548.9 | 6555.0 |
| 65°   | 2826.1 | 2834.1 | 3393.7 | 4707.5 | 6499.1 | 7881.3 | 8488.6 | 8279.1 | 8834.8 | 8861.3 | 6530.8 |
| 67.5° | 2109.2 | 2187.2 | 2610.7 | 3700.2 | 5489.7 | 7549.0 | 8674.5 | 8290.1 | 8629.8 | 8556.2 | 6012.4 |
| 70°   | 1358.7 | 1418.2 | 1769.6 | 2565.8 | 3958.3 | 6299.9 | 8057.8 | 7721.8 | 7574.0 | 7410.8 | 4921.4 |
| 72.5° | 627.1  | 703.6  | 1051.3 | 1466.0 | 2347.5 | 4487.6 | 6541.0 | 6273.4 | 5451.5 | 5048.5 | 3128.2 |
| 75°   | 273.5  | 292.6  | 519.1  | 773.4  | 1100.6 | 2373.2 | 4312.7 | 3894.3 | 2462.1 | 2248.9 | 1252.0 |
| 77.5° | 166.9  | 179.4  | 272.0  | 414.7  | 432.3  | 904.3  | 2323.2 | 1699.0 | 760.9  | 671.3  | 339.7  |
| 80°   | 113.2  | 127.2  | 197.8  | 216.9  | 147.8  | 252.2  | 871.9  | 453.6  | 153.6  | 147.0  | 72.8   |
| 82.5° | 55.1   | 69.8   | 146.3  | 121.3  | 64.0   | 80.9   | 253.6  | 97.0   | 44.9   | 41.9   | 25.8   |
| 85°   | 8.1    | 13.9   | 82.4   | 79.4   | 28.7   | 19.1   | 44.9   | 24.3   | 15.4   | 14.7   | 11.7   |
| 87.5° | 0.0    | 0.0    | 28.0   | 12.5   | 3.0    | 3.0    | 5.2    | 5.2    | 5.9    | 5.2    | 5.9    |
| 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: P650326

CATALOG NUMBER: GLAN-SA3B-835-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 | 1904.9 |
| 2.5°  | 1919.6 | 1923.3 | 1909.3 | 1889.5 | 1868.2 | 1846.8 | 1816.6 | 1789.5 | 1773.3 | 1782.8 | 1759.3 |
| 5°    | 1954.1 | 1951.2 | 1914.4 | 1854.1 | 1774.0 | 1677.7 | 1582.1 | 1500.5 | 1474.1 | 1434.4 | 1430.0 |
| 7.5°  | 2002.0 | 1993.8 | 1915.9 | 1777.7 | 1596.9 | 1416.0 | 1239.6 | 1122.7 | 1055.7 | 999.1  | 1000.6 |
| 10°   | 2068.8 | 2045.4 | 1899.0 | 1643.1 | 1345.4 | 1072.6 | 847.7  | 693.3  | 626.4  | 605.1  | 588.2  |
| 12.5° | 2138.0 | 2092.3 | 1852.0 | 1461.5 | 1047.7 | 733.0  | 515.4  | 421.3  | 380.1  | 366.8  | 365.4  |
| 15°   | 2199.7 | 2127.6 | 1769.6 | 1243.2 | 761.6  | 468.3  | 351.4  | 320.6  | 315.4  | 316.1  | 315.4  |
| 17.5° | 2260.8 | 2155.6 | 1655.7 | 1011.6 | 517.6  | 336.0  | 302.2  | 294.8  | 297.0  | 300.0  | 299.3  |
| 20°   | 2311.4 | 2161.5 | 1510.1 | 772.0  | 366.1  | 294.8  | 283.8  | 282.3  | 284.5  | 286.7  | 286.7  |
| 22.5° | 2366.6 | 2165.9 | 1337.3 | 534.5  | 299.3  | 274.2  | 268.3  | 268.3  | 271.3  | 274.2  | 275.0  |
| 25°   | 2407.8 | 2141.7 | 1130.7 | 383.7  | 263.9  | 254.4  | 251.4  | 252.2  | 255.1  | 256.6  | 255.9  |
| 27.5° | 2414.4 | 2073.2 | 911.6  | 294.1  | 239.7  | 230.1  | 227.1  | 230.1  | 226.4  | 228.6  | 227.1  |
| 30°   | 2420.3 | 1986.5 | 689.6  | 247.7  | 217.6  | 202.9  | 198.5  | 194.1  | 191.1  | 187.5  | 186.7  |
| 32.5° | 2438.7 | 1884.3 | 503.6  | 222.8  | 197.0  | 180.9  | 170.5  | 158.1  | 148.5  | 145.6  | 144.9  |
| 35°   | 2446.7 | 1761.5 | 369.8  | 202.9  | 178.7  | 161.0  | 142.7  | 125.0  | 111.0  | 105.9  | 109.5  |
| 37.5° | 2477.6 | 1642.4 | 286.7  | 188.2  | 162.5  | 140.4  | 116.9  | 94.8   | 81.6   | 78.7   | 80.1   |
| 40°   | 2540.8 | 1513.1 | 240.4  | 175.7  | 148.5  | 121.3  | 92.6   | 71.3   | 62.5   | 59.6   | 58.8   |
| 42.5° | 2642.3 | 1384.3 | 213.9  | 164.0  | 134.5  | 102.2  | 72.8   | 55.9   | 48.5   | 46.4   | 46.4   |
| 45°   | 2765.8 | 1260.9 | 195.6  | 151.4  | 119.8  | 82.4   | 57.3   | 44.9   | 40.4   | 39.0   | 39.0   |
| 47.5° | 2928.3 | 1152.8 | 180.1  | 139.0  | 103.7  | 65.5   | 46.4   | 39.0   | 36.0   | 36.7   | 37.5   |
| 50°   | 3092.9 | 1072.6 | 163.2  | 125.0  | 85.3   | 53.6   | 39.7   | 34.5   | 33.8   | 34.5   | 34.5   |
| 52.5° | 3217.2 | 1025.6 | 140.4  | 105.9  | 66.9   | 44.9   | 35.3   | 32.3   | 31.6   | 30.1   | 30.1   |
| 55°   | 3384.8 | 1015.3 | 111.7  | 86.1   | 52.9   | 37.5   | 31.6   | 29.4   | 27.2   | 25.8   | 25.0   |
| 57.5° | 3600.2 | 1027.1 | 86.1   | 66.9   | 41.2   | 30.9   | 28.0   | 24.3   | 21.3   | 18.4   | 18.4   |
| 60°   | 3734.0 | 1000.6 | 66.9   | 51.4   | 30.1   | 25.0   | 21.3   | 17.6   | 13.9   | 11.7   | 11.0   |
| 62.5° | 3691.5 | 888.9  | 52.9   | 38.2   | 21.3   | 18.4   | 13.9   | 11.7   | 8.1    | 5.9    | 5.2    |
| 65°   | 3471.6 | 717.5  | 42.7   | 26.5   | 15.4   | 11.0   | 7.4    | 7.4    | 3.7    | 0.7    | 0.0    |
| 67.5° | 3038.6 | 531.6  | 33.8   | 17.6   | 8.8    | 5.2    | 3.7    | 2.2    | 0.0    | 0.0    | 0.0    |
| 70°   | 2473.2 | 383.7  | 26.5   | 11.0   | 5.2    | 3.7    | 1.5    | 0.7    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1570.4 | 219.8  | 20.6   | 6.7    | 3.7    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 607.3  | 86.1   | 13.9   | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 172.0  | 40.4   | 8.1    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 44.9   | 17.6   | 4.4    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 21.3   | 7.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.5   | 3.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.9    | 0.7    | 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    |

(END OF REPORT)