

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: P452702

Luminaire Tested: **GLAN-SA3C-830-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3C-830-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16773 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

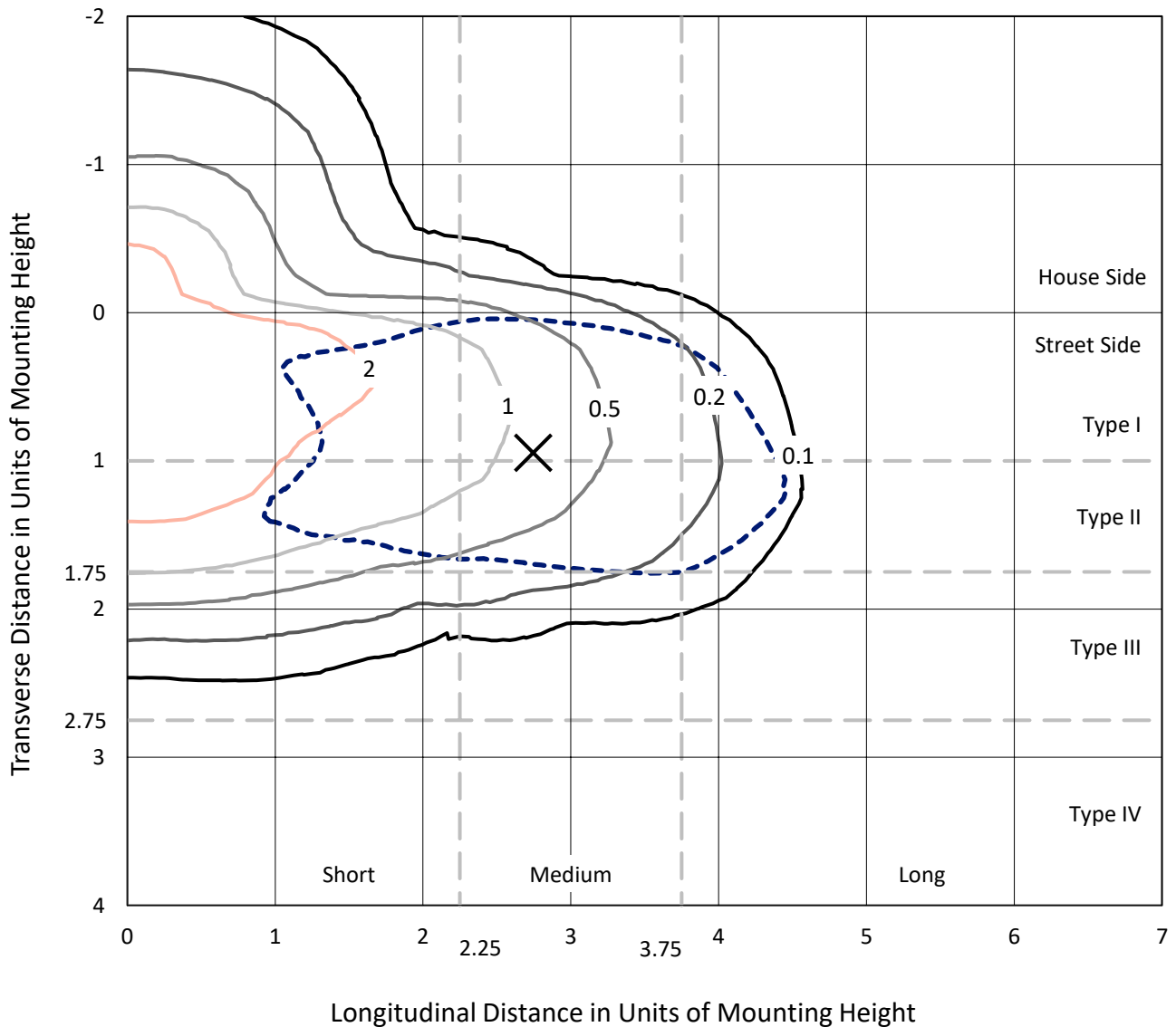
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452702  
 CATALOG NUMBER: GLAN-SA3C-830-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

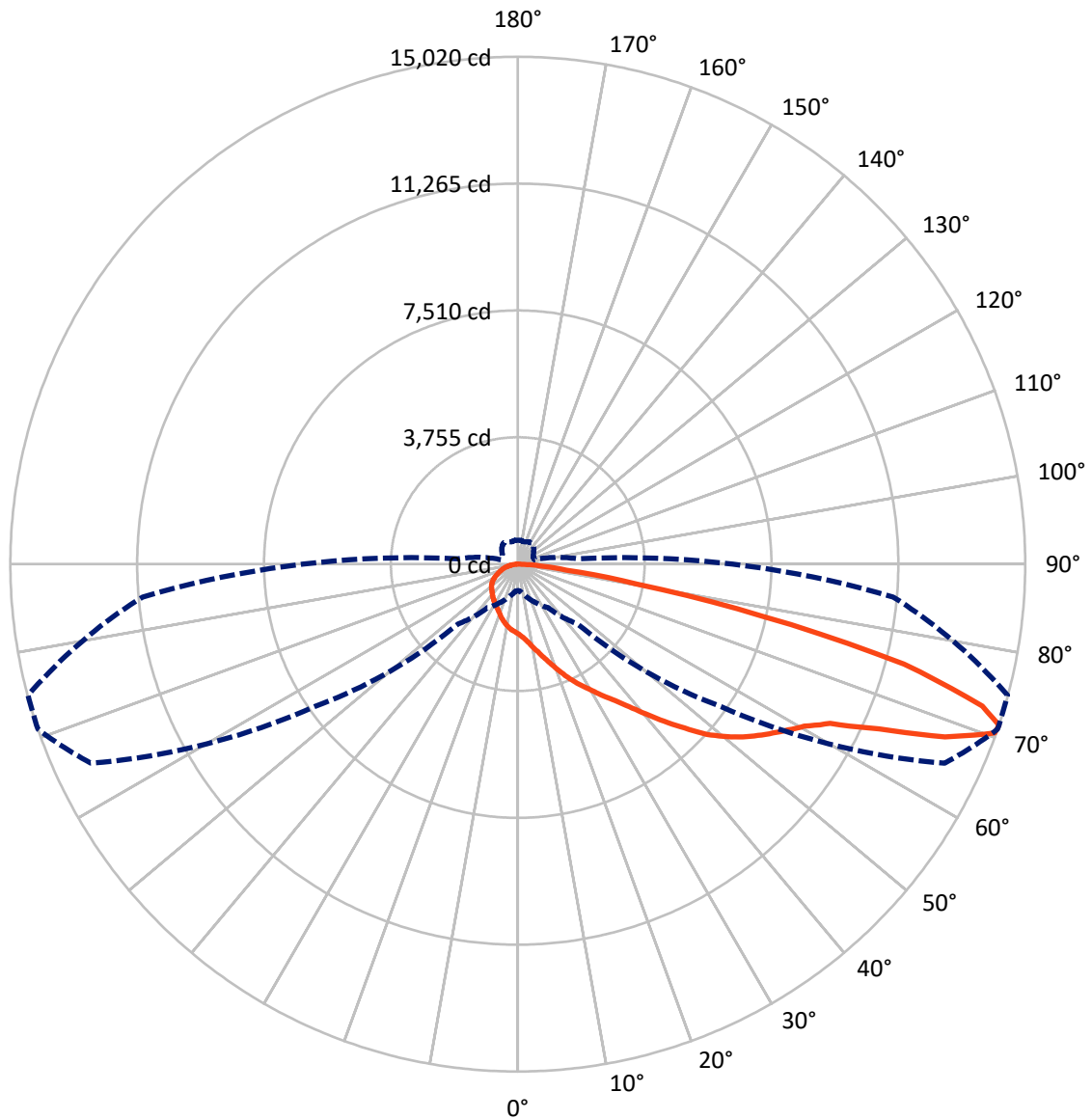
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P452702  
CATALOG NUMBER: GLAN-SA3C-830-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P452702

CATALOG NUMBER: GLAN-SA3C-830-U-T2

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3016.6   | 0.0    | 3016.6  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 13756.4  | 0.0    | 13756.4 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 16773.0  | 0.0    | 16773.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 206.7   | 1.2       |
| 10°-20°   | 671.5   | 4.0       |
| 20°-30°   | 1173.6  | 7.0       |
| 30°-40°   | 1745.5  | 10.4      |
| 40°-50°   | 2571.8  | 15.3      |
| 50°-60°   | 3600.5  | 21.5      |
| 60°-70°   | 4027.1  | 24.0      |
| 70°-80°   | 2459.9  | 14.7      |
| 80°-90°   | 316.4   | 1.9       |
| 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°    | 16773.0 | 100.0     |
| 0°-180°   | 16773.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452702

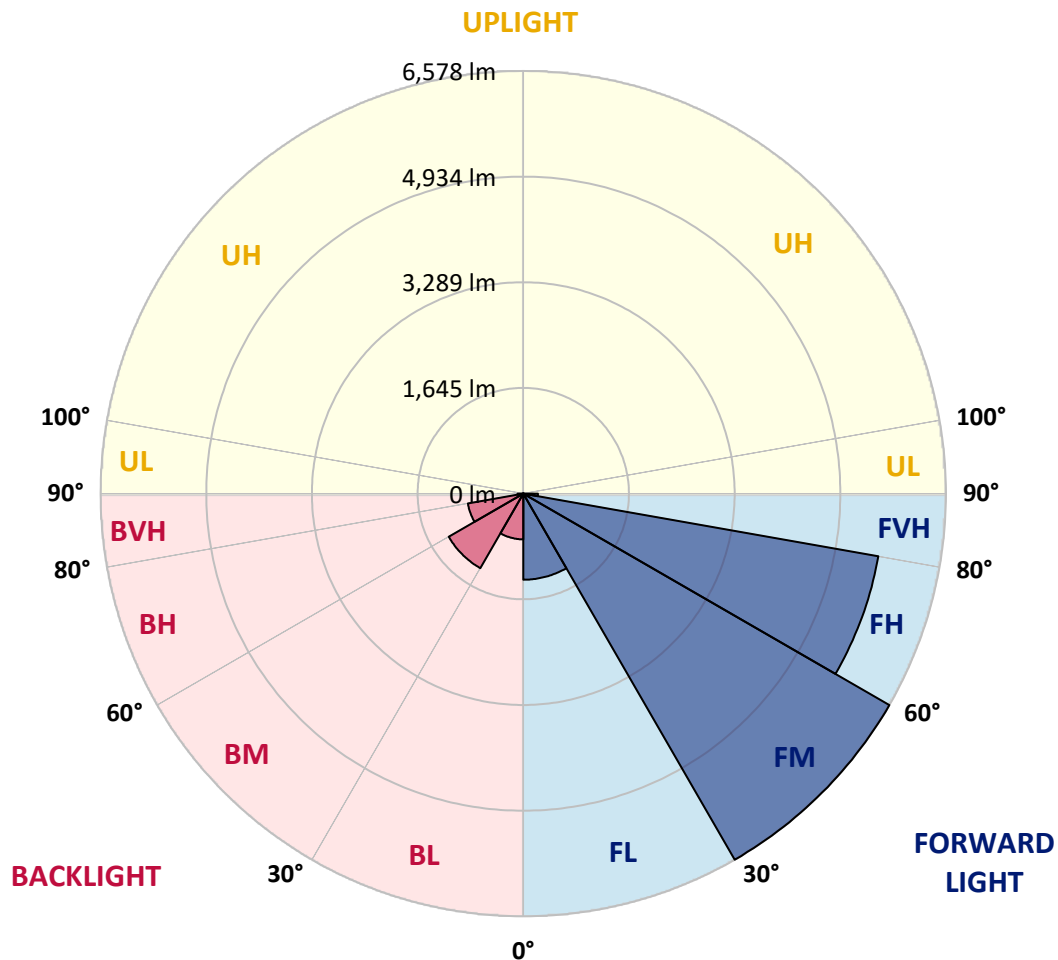
CATALOG NUMBER: GLAN-SA3C-830-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1340.2 | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 6578.0 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 5610.5 | 33.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 227.7  | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 711.6  | 4.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1339.8 | 8.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 876.5  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 88.7   | 0.5       |                         |      | 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 II Medium





REPORT NUMBER: P452702

CATALOG NUMBER: GLAN-SA3C-830-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6  | 2058.6  | 2058.6  | 2058.6  | 2058.6  |
| 2.5°  | 2285.3 | 2274.3 | 2275.2 | 2259.5 | 2239.2 | 2217.1 | 2185.8  | 2158.1  | 2136.0  | 2123.1  | 2085.3  |
| 5°    | 2532.4 | 2521.3 | 2507.5 | 2473.4 | 2458.7 | 2404.3 | 2335.1  | 2272.4  | 2224.5  | 2197.8  | 2122.2  |
| 7.5°  | 2732.4 | 2729.7 | 2726.0 | 2706.6 | 2668.8 | 2593.2 | 2534.2  | 2425.5  | 2354.5  | 2303.8  | 2174.7  |
| 10°   | 2856.0 | 2860.6 | 2863.4 | 2867.0 | 2851.4 | 2811.7 | 2730.6  | 2593.2  | 2502.9  | 2438.4  | 2242.9  |
| 12.5° | 2918.7 | 2923.3 | 2938.9 | 2973.1 | 2994.3 | 2989.7 | 2923.3  | 2788.7  | 2664.2  | 2579.4  | 2315.8  |
| 15°   | 2957.4 | 2964.8 | 2992.4 | 3037.6 | 3108.6 | 3153.7 | 3121.5  | 2997.0  | 2860.6  | 2760.1  | 2402.4  |
| 17.5° | 2999.8 | 3008.1 | 3038.5 | 3103.0 | 3196.2 | 3293.9 | 3328.9  | 3222.0  | 3073.5  | 2953.7  | 2499.2  |
| 20°   | 3023.8 | 3034.8 | 3078.2 | 3163.0 | 3271.7 | 3413.7 | 3529.9  | 3473.6  | 3311.4  | 3178.6  | 2610.8  |
| 22.5° | 3062.5 | 3071.7 | 3108.6 | 3198.9 | 3328.9 | 3506.8 | 3730.8  | 3718.9  | 3576.0  | 3404.5  | 2733.4  |
| 25°   | 3167.6 | 3182.3 | 3200.8 | 3255.2 | 3380.5 | 3601.8 | 3897.7  | 3980.7  | 3832.2  | 3640.5  | 2845.8  |
| 27.5° | 3365.8 | 3377.8 | 3376.8 | 3384.2 | 3455.2 | 3683.8 | 4042.4  | 4239.7  | 4086.7  | 3879.3  | 2954.6  |
| 30°   | 3591.6 | 3596.2 | 3599.9 | 3583.3 | 3599.0 | 3767.7 | 4175.2  | 4496.0  | 4343.0  | 4124.5  | 3049.6  |
| 32.5° | 3866.4 | 3875.6 | 3844.2 | 3801.8 | 3788.9 | 3892.2 | 4284.9  | 4752.3  | 4646.3  | 4373.4  | 3143.6  |
| 35°   | 4190.9 | 4214.8 | 4151.2 | 4076.5 | 4024.0 | 4071.0 | 4432.4  | 5014.1  | 4956.9  | 4691.4  | 3268.1  |
| 37.5° | 4561.5 | 4591.0 | 4532.0 | 4385.4 | 4310.7 | 4323.6 | 4625.1  | 5337.7  | 5349.7  | 5053.7  | 3453.4  |
| 40°   | 4864.8 | 4903.5 | 4905.3 | 4697.9 | 4584.5 | 4599.3 | 4869.4  | 5686.1  | 5823.5  | 5501.8  | 3671.8  |
| 42.5° | 5064.8 | 5102.6 | 5142.2 | 5020.6 | 4901.6 | 4985.5 | 5154.2  | 6064.1  | 6356.4  | 6045.7  | 3977.0  |
| 45°   | 5284.2 | 5318.3 | 5340.4 | 5285.1 | 5218.8 | 5436.3 | 5498.1  | 6466.1  | 6924.2  | 6653.2  | 4310.7  |
| 47.5° | 5538.6 | 5576.4 | 5597.6 | 5545.1 | 5520.2 | 5831.8 | 5868.7  | 6841.3  | 7530.8  | 7243.2  | 4679.5  |
| 50°   | 5877.9 | 5906.5 | 5895.4 | 5862.2 | 5856.7 | 6135.1 | 6224.5  | 7192.5  | 8031.4  | 7878.4  | 5062.0  |
| 52.5° | 6300.1 | 6334.2 | 6346.2 | 6299.2 | 6278.0 | 6351.7 | 6511.2  | 7512.4  | 8486.8  | 8424.1  | 5470.4  |
| 55°   | 6555.5 | 6609.9 | 6792.4 | 6866.2 | 6916.9 | 6632.0 | 6820.1  | 7865.5  | 8895.2  | 8999.4  | 5909.2  |
| 57.5° | 6228.2 | 6298.3 | 6706.7 | 7075.4 | 7552.0 | 7332.6 | 7258.0  | 8234.2  | 9303.6  | 9557.1  | 6434.7  |
| 60°   | 5429.9 | 5445.5 | 5971.9 | 6651.4 | 7610.1 | 8233.3 | 8171.5  | 8820.5  | 9746.1  | 10119.5 | 7127.0  |
| 62.5° | 3766.8 | 3800.0 | 4422.3 | 5506.4 | 6892.9 | 8557.8 | 9725.8  | 9832.8  | 10380.4 | 10961.1 | 8142.0  |
| 65°   | 1942.4 | 1899.1 | 2466.0 | 3460.7 | 5196.6 | 7787.1 | 10985.1 | 11694.0 | 11755.8 | 12277.6 | 9570.9  |
| 67.5° | 1195.7 | 1215.0 | 1480.5 | 2020.8 | 3072.6 | 5659.4 | 10853.3 | 13968.3 | 13642.9 | 13893.6 | 10897.5 |
| 70°   | 897.9  | 921.9  | 1104.4 | 1382.8 | 1873.3 | 3235.8 | 8728.3  | 14519.6 | 14974.1 | 14909.5 | 11301.3 |
| 71°   | 780.8  | 805.7  | 995.6  | 1258.4 | 1573.6 | 2497.4 | 7353.8  | 13942.5 | 15020.2 | 15009.1 | 11149.2 |
| 72.5° | 665.6  | 681.3  | 829.7  | 1065.7 | 1326.6 | 1750.6 | 5524.8  | 12504.4 | 14379.5 | 14747.3 | 10606.2 |
| 75°   | 522.7  | 534.7  | 601.1  | 813.1  | 1044.5 | 1074.9 | 2964.8  | 9374.6  | 11810.2 | 12510.8 | 8829.8  |
| 77.5° | 425.9  | 434.2  | 468.3  | 603.8  | 805.7  | 761.5  | 1555.2  | 6101.9  | 7399.0  | 8104.2  | 5201.2  |
| 80°   | 338.3  | 347.5  | 367.8  | 409.3  | 603.8  | 543.0  | 742.1   | 3092.0  | 3574.1  | 3566.7  | 2076.1  |
| 82.5° | 262.7  | 265.5  | 289.5  | 300.5  | 413.0  | 385.3  | 401.9   | 1309.1  | 1450.1  | 1498.1  | 749.5   |
| 85°   | 165.9  | 174.2  | 256.3  | 230.5  | 247.1  | 225.9  | 198.2   | 519.9   | 640.7   | 631.5   | 299.6   |
| 87.5° | 50.7   | 53.5   | 86.7   | 97.7   | 109.7  | 98.6   | 72.8    | 153.0   | 187.1   | 202.8   | 74.7    |
| 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: P452702  
 CATALOG NUMBER: GLAN-SA3C-830-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 | 2058.6 |
| 2.5°  | 2070.5 | 2060.4 | 2024.4 | 1994.9 | 1967.3 | 1936.9 | 1911.1 | 1903.7 | 1897.2 | 1894.5 | 1893.5 |
| 5°    | 2089.9 | 2059.5 | 1988.5 | 1930.4 | 1884.3 | 1841.9 | 1815.2 | 1803.2 | 1791.2 | 1791.2 | 1794.9 |
| 7.5°  | 2117.6 | 2062.2 | 1952.5 | 1865.9 | 1807.8 | 1768.2 | 1748.8 | 1747.0 | 1749.7 | 1752.5 | 1753.4 |
| 10°   | 2148.0 | 2060.4 | 1900.0 | 1792.1 | 1740.5 | 1722.1 | 1723.0 | 1738.7 | 1753.4 | 1764.5 | 1766.3 |
| 12.5° | 2177.5 | 2049.3 | 1838.2 | 1723.0 | 1689.8 | 1693.5 | 1719.3 | 1754.3 | 1782.9 | 1798.6 | 1799.5 |
| 15°   | 2210.7 | 2031.8 | 1763.6 | 1657.5 | 1646.5 | 1675.1 | 1723.0 | 1776.5 | 1819.8 | 1845.6 | 1848.4 |
| 17.5° | 2238.3 | 2002.3 | 1685.2 | 1593.9 | 1607.8 | 1660.3 | 1726.7 | 1795.8 | 1848.4 | 1880.6 | 1886.2 |
| 20°   | 2269.7 | 1964.5 | 1604.1 | 1533.1 | 1572.7 | 1643.7 | 1719.3 | 1794.0 | 1848.4 | 1879.7 | 1887.1 |
| 22.5° | 2294.6 | 1911.1 | 1526.6 | 1483.3 | 1541.4 | 1623.4 | 1694.4 | 1754.3 | 1798.6 | 1815.2 | 1826.2 |
| 25°   | 2304.7 | 1843.8 | 1453.8 | 1442.7 | 1516.5 | 1590.2 | 1638.2 | 1672.3 | 1686.1 | 1684.3 | 1688.9 |
| 27.5° | 2299.2 | 1766.3 | 1391.1 | 1410.5 | 1485.1 | 1538.6 | 1562.6 | 1559.8 | 1534.9 | 1511.9 | 1522.9 |
| 30°   | 2276.1 | 1674.1 | 1338.6 | 1377.3 | 1444.6 | 1474.1 | 1470.4 | 1434.4 | 1387.4 | 1344.1 | 1346.9 |
| 32.5° | 2234.6 | 1574.6 | 1289.7 | 1339.5 | 1387.4 | 1400.3 | 1375.4 | 1328.4 | 1261.1 | 1204.9 | 1196.6 |
| 35°   | 2199.6 | 1479.6 | 1246.4 | 1296.2 | 1330.3 | 1323.8 | 1299.8 | 1239.0 | 1178.2 | 1128.4 | 1120.1 |
| 37.5° | 2194.1 | 1398.5 | 1204.9 | 1247.3 | 1266.7 | 1257.4 | 1227.9 | 1176.3 | 1154.2 | 1116.4 | 1111.8 |
| 40°   | 2223.6 | 1341.3 | 1162.5 | 1195.7 | 1204.9 | 1197.5 | 1165.3 | 1135.8 | 1156.0 | 1146.8 | 1146.8 |
| 42.5° | 2303.8 | 1310.9 | 1124.7 | 1144.1 | 1151.4 | 1157.0 | 1133.9 | 1109.0 | 1133.9 | 1091.5 | 1077.7 |
| 45°   | 2431.0 | 1311.8 | 1090.6 | 1093.3 | 1115.5 | 1134.8 | 1119.2 | 1082.3 | 1069.4 | 984.6  | 968.0  |
| 47.5° | 2618.1 | 1343.2 | 1062.9 | 1045.4 | 1085.1 | 1117.3 | 1095.2 | 1041.7 | 984.6  | 928.3  | 918.2  |
| 50°   | 2836.6 | 1399.4 | 1038.0 | 995.6  | 1044.5 | 1095.2 | 1078.6 | 1015.9 | 956.9  | 922.8  | 916.3  |
| 52.5° | 3079.1 | 1470.4 | 1007.6 | 940.3  | 994.7  | 1085.1 | 1082.3 | 1012.2 | 931.1  | 908.1  | 902.5  |
| 55°   | 3378.7 | 1540.5 | 969.8  | 875.8  | 950.5  | 1076.8 | 1072.1 | 981.8  | 925.6  | 909.0  | 907.1  |
| 57.5° | 3727.2 | 1641.9 | 915.4  | 810.3  | 899.8  | 1042.6 | 1032.5 | 963.4  | 907.1  | 895.1  | 894.2  |
| 60°   | 4288.6 | 1799.5 | 838.0  | 750.4  | 848.1  | 982.7  | 995.6  | 932.0  | 877.6  | 874.9  | 873.9  |
| 62.5° | 5027.0 | 2020.8 | 757.8  | 688.6  | 788.2  | 905.3  | 942.2  | 889.6  | 846.3  | 860.1  | 862.0  |
| 65°   | 6046.6 | 2207.0 | 674.8  | 636.1  | 721.8  | 830.6  | 891.5  | 850.0  | 811.3  | 838.0  | 838.0  |
| 67.5° | 6711.3 | 2210.7 | 599.2  | 581.7  | 654.5  | 767.9  | 838.0  | 803.0  | 766.1  | 811.3  | 813.1  |
| 70°   | 6573.0 | 1936.9 | 536.5  | 524.5  | 589.1  | 700.6  | 779.0  | 751.3  | 708.9  | 749.5  | 734.7  |
| 71°   | 6349.9 | 1784.8 | 511.6  | 502.4  | 563.3  | 668.4  | 751.3  | 728.3  | 685.9  | 712.6  | 704.3  |
| 72.5° | 5994.1 | 1549.7 | 471.1  | 472.9  | 524.5  | 627.8  | 712.6  | 688.6  | 646.2  | 661.0  | 658.2  |
| 75°   | 5066.6 | 1353.3 | 402.9  | 411.2  | 450.8  | 558.7  | 635.2  | 616.7  | 573.4  | 573.4  | 570.6  |
| 77.5° | 3167.6 | 945.8  | 334.6  | 339.3  | 382.6  | 478.5  | 545.8  | 530.1  | 488.6  | 474.8  | 471.1  |
| 80°   | 1181.8 | 488.6  | 261.8  | 267.3  | 294.1  | 377.0  | 451.7  | 437.0  | 394.6  | 378.9  | 364.1  |
| 82.5° | 447.1  | 245.2  | 192.7  | 188.1  | 216.6  | 287.6  | 354.0  | 336.5  | 303.3  | 265.5  | 254.4  |
| 85°   | 168.7  | 121.7  | 118.0  | 114.3  | 127.2  | 170.5  | 219.4  | 215.7  | 180.7  | 154.0  | 151.2  |
| 87.5° | 44.3   | 39.6   | 46.1   | 34.1   | 36.0   | 32.3   | 33.2   | 13.8   | 6.5    | 2.8    | 1.8    |
| 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)