

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: P451182

Luminaire Tested: **GLAN-SA2A-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7527 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63  
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

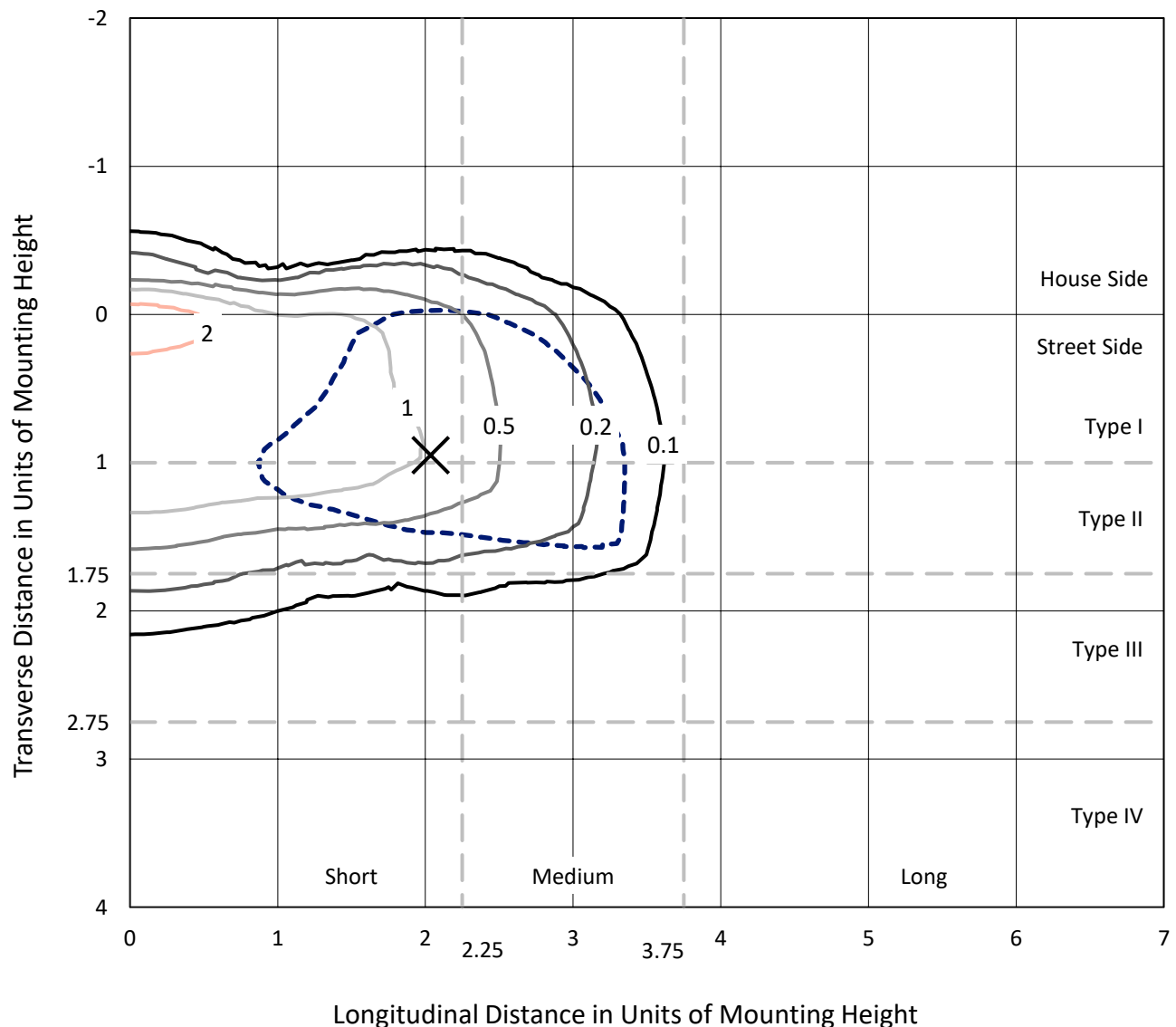


REPORT NUMBER: P451182

CATALOG NUMBER: GLAN-SA2A-740-U-SL2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

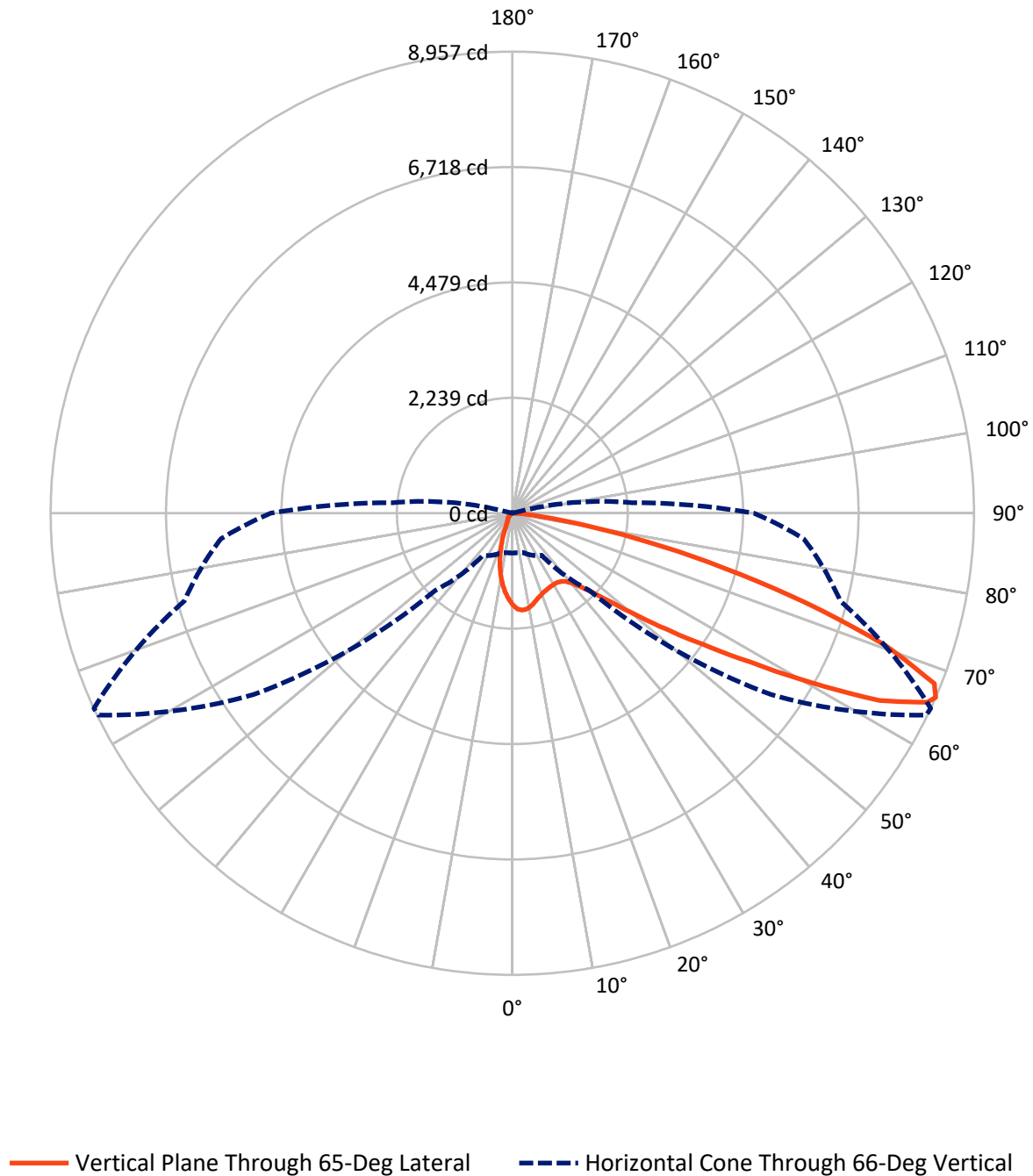
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P451182  
CATALOG NUMBER: GLAN-SA2A-740-U-SL2-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P451182

CATALOG NUMBER: GLAN-SA2A-740-U-SL2-HSS

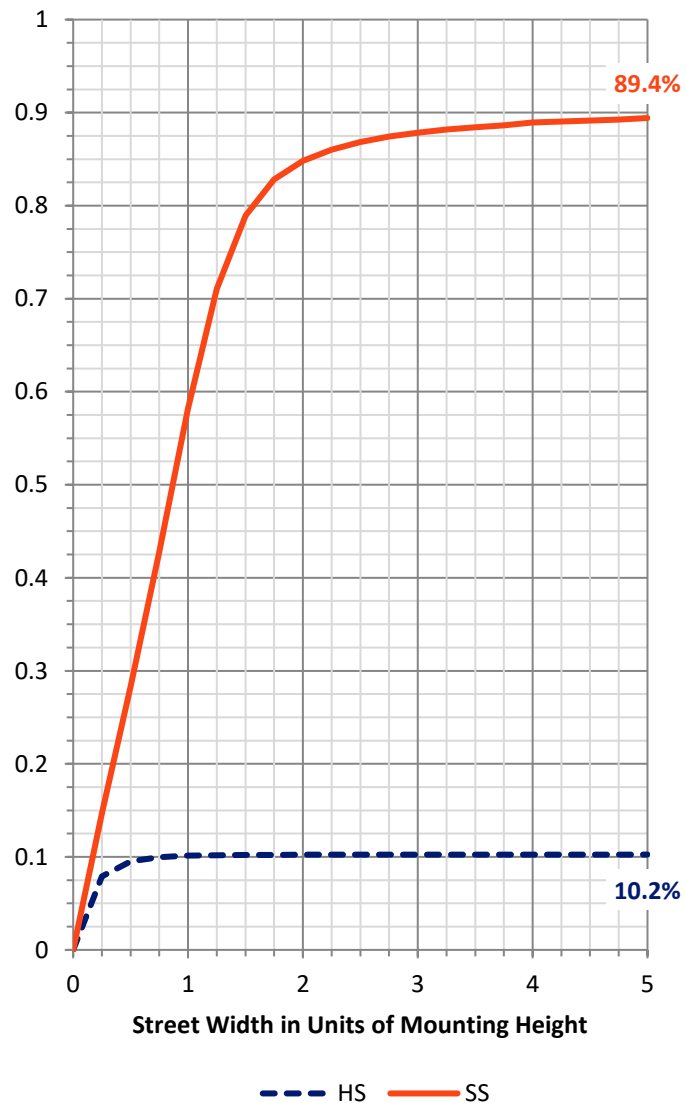
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 778.4    | 0.0    | 778.4  |
|                    | % Fixture | 10.3     | 0.0    | 10.3   |
| <b>Street Side</b> | Lumens    | 6748.6   | 0.0    | 6748.6 |
|                    | % Fixture | 89.7     | 0.0    | 89.7   |
| <b>Total</b>       | Lumens    | 7527.0   | 0.0    | 7527.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.0  | 1.9       |
| 10°-20°   | 318.1  | 4.2       |
| 20°-30°   | 455.6  | 6.1       |
| 30°-40°   | 665.5  | 8.8       |
| 40°-50°   | 1115.9 | 14.8      |
| 50°-60°   | 1862.3 | 24.7      |
| 60°-70°   | 1976.8 | 26.3      |
| 70°-80°   | 895.3  | 11.9      |
| 80°-90°   | 91.6   | 1.2       |
| 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°    | 7527.0 | 100.0     |
| 0°-180°   | 7527.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P451182

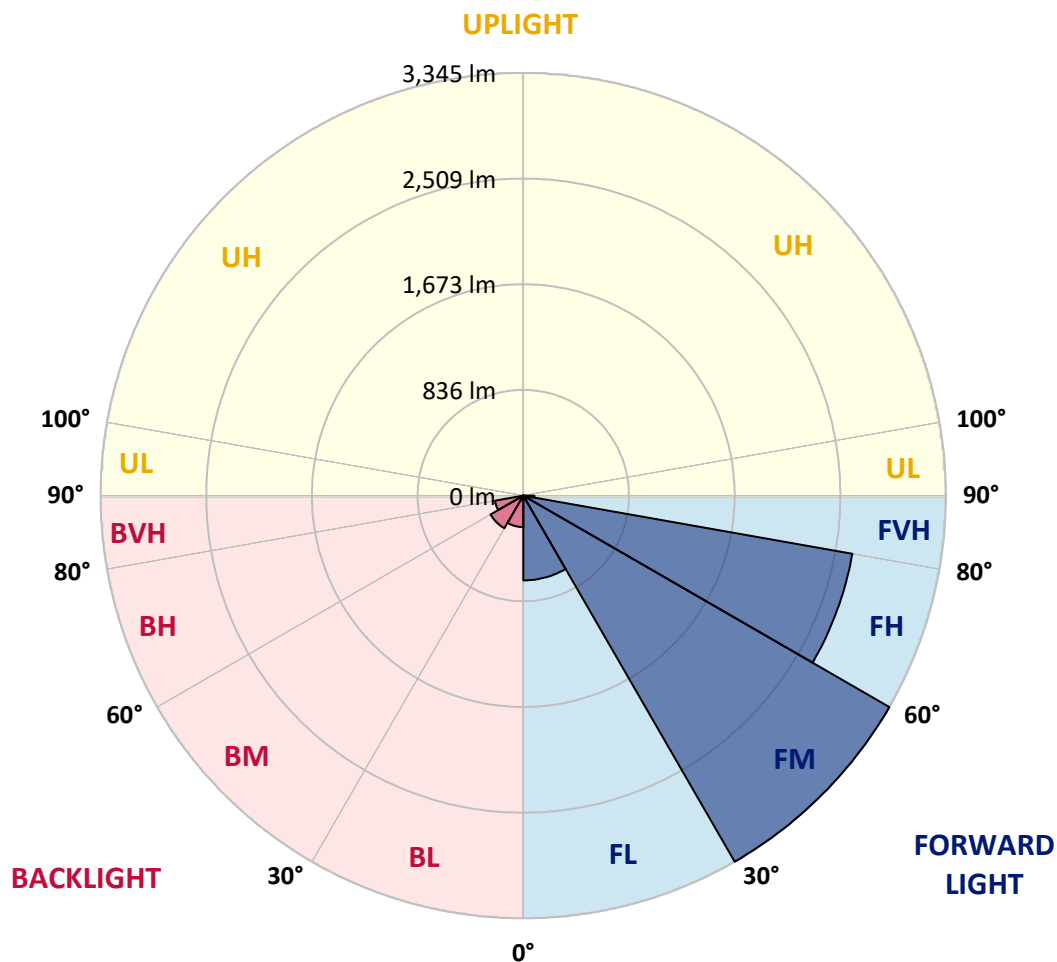
CATALOG NUMBER: GLAN-SA2A-740-U-SL2-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 670.7  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 3345.2 | 44.4      |                         |      |         |
| FH   | (60°-80°)   | 2644.1 | 35.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 88.7   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 249.0  | 3.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 298.5  | 4.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 228.0  | 3.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.9    | 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 II Short





REPORT NUMBER: P451182

CATALOG NUMBER: GLAN-SA2A-740-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 |
| 2.5°  | 1881.0 | 1883.0 | 1885.6 | 1889.1 | 1891.7 | 1884.1 | 1873.4 | 1861.2 | 1858.6 | 1832.7 | 1801.2 |
| 5°    | 1780.4 | 1783.4 | 1805.8 | 1818.0 | 1845.4 | 1870.3 | 1886.1 | 1888.1 | 1887.1 | 1862.7 | 1812.4 |
| 7.5°  | 1637.0 | 1645.6 | 1667.5 | 1688.8 | 1740.2 | 1787.5 | 1843.4 | 1882.5 | 1885.1 | 1878.5 | 1815.9 |
| 10°   | 1520.6 | 1526.2 | 1537.3 | 1579.5 | 1622.2 | 1694.4 | 1772.7 | 1846.4 | 1852.5 | 1879.0 | 1812.9 |
| 12.5° | 1429.6 | 1437.7 | 1451.4 | 1484.0 | 1535.3 | 1603.4 | 1692.4 | 1791.5 | 1804.2 | 1869.3 | 1804.2 |
| 15°   | 1366.0 | 1370.1 | 1383.8 | 1415.8 | 1465.7 | 1528.7 | 1618.7 | 1734.1 | 1745.3 | 1856.6 | 1802.7 |
| 17.5° | 1336.0 | 1340.6 | 1350.3 | 1375.7 | 1416.9 | 1475.3 | 1563.3 | 1687.8 | 1702.1 | 1848.5 | 1808.3 |
| 20°   | 1344.2 | 1348.2 | 1348.7 | 1362.0 | 1389.9 | 1439.2 | 1522.6 | 1644.6 | 1662.9 | 1843.4 | 1817.5 |
| 22.5° | 1390.4 | 1390.9 | 1384.8 | 1378.7 | 1388.4 | 1424.0 | 1497.7 | 1617.2 | 1636.0 | 1842.4 | 1828.1 |
| 25°   | 1459.6 | 1461.1 | 1450.9 | 1429.6 | 1410.3 | 1428.6 | 1492.1 | 1599.4 | 1616.1 | 1839.8 | 1834.8 |
| 27.5° | 1555.1 | 1554.6 | 1551.6 | 1516.0 | 1461.1 | 1448.9 | 1496.7 | 1589.7 | 1603.9 | 1832.7 | 1837.3 |
| 30°   | 1688.8 | 1684.8 | 1678.2 | 1638.0 | 1554.1 | 1498.2 | 1516.0 | 1583.6 | 1596.8 | 1822.5 | 1830.7 |
| 32.5° | 1820.5 | 1835.8 | 1834.8 | 1796.6 | 1691.9 | 1586.2 | 1556.2 | 1591.7 | 1601.4 | 1815.9 | 1821.0 |
| 35°   | 1974.0 | 1973.5 | 2012.7 | 1998.4 | 1875.9 | 1698.5 | 1624.8 | 1618.7 | 1626.3 | 1820.5 | 1816.4 |
| 37.5° | 2116.4 | 2129.6 | 2190.6 | 2205.4 | 2093.5 | 1857.1 | 1721.9 | 1676.6 | 1679.2 | 1851.5 | 1827.6 |
| 40°   | 2293.8 | 2319.2 | 2410.2 | 2459.6 | 2360.9 | 2092.5 | 1865.3 | 1782.9 | 1783.4 | 1927.8 | 1869.8 |
| 42.5° | 2522.6 | 2562.8 | 2647.7 | 2730.0 | 2677.1 | 2371.1 | 2080.3 | 1951.2 | 1950.2 | 2062.0 | 1966.4 |
| 45°   | 2800.7 | 2828.6 | 2925.2 | 3055.9 | 3022.3 | 2760.0 | 2393.5 | 2212.0 | 2198.8 | 2282.1 | 2137.7 |
| 47.5° | 3040.6 | 3078.8 | 3176.9 | 3325.8 | 3478.3 | 3234.8 | 2767.6 | 2570.4 | 2561.7 | 2632.4 | 2431.6 |
| 50°   | 3145.4 | 3178.9 | 3282.1 | 3491.1 | 3860.7 | 3858.1 | 3324.8 | 3093.5 | 3078.8 | 3116.9 | 2886.1 |
| 52.5° | 3030.5 | 3062.0 | 3166.2 | 3426.5 | 4040.6 | 4617.6 | 4132.1 | 3749.8 | 3732.0 | 3683.2 | 3429.0 |
| 55°   | 2637.0 | 2662.9 | 2816.9 | 3115.9 | 3971.5 | 5124.0 | 5244.5 | 4560.7 | 4491.6 | 4301.9 | 4043.7 |
| 57.5° | 2099.6 | 2086.4 | 2182.0 | 2529.2 | 3565.8 | 5293.8 | 6386.3 | 5570.9 | 5447.3 | 4836.7 | 4563.7 |
| 60°   | 1455.0 | 1495.7 | 1534.3 | 1763.1 | 2681.2 | 4999.4 | 7096.5 | 6840.8 | 6678.1 | 5362.9 | 5062.0 |
| 62.5° | 1069.6 | 1096.6 | 1122.0 | 1227.7 | 1685.8 | 3991.8 | 7222.1 | 8145.3 | 8000.9 | 5921.6 | 5537.3 |
| 65°   | 845.9  | 848.0  | 858.1  | 962.4  | 1110.8 | 2595.8 | 6618.6 | 8880.9 | 8843.8 | 6459.5 | 5730.0 |
| 66°   | 770.7  | 771.2  | 787.0  | 898.8  | 996.9  | 2113.9 | 6135.2 | 8936.8 | 8957.2 | 6588.6 | 5673.5 |
| 67.5° | 673.6  | 671.6  | 694.4  | 807.8  | 908.0  | 1524.1 | 5269.9 | 8710.1 | 8830.6 | 6687.8 | 5470.7 |
| 70°   | 522.1  | 519.6  | 547.5  | 677.7  | 836.3  | 1016.8 | 3502.8 | 7478.8 | 7673.0 | 6484.9 | 4840.3 |
| 72.5° | 347.7  | 349.8  | 397.6  | 534.8  | 798.2  | 895.3  | 2107.2 | 5689.3 | 5963.8 | 5355.3 | 3807.8 |
| 75°   | 202.8  | 206.4  | 260.8  | 397.6  | 692.9  | 853.6  | 1192.7 | 4056.9 | 4232.3 | 3698.0 | 2372.1 |
| 77.5° | 106.3  | 107.8  | 145.9  | 262.3  | 531.3  | 792.6  | 794.6  | 2591.7 | 2674.1 | 1797.1 | 939.0  |
| 80°   | 56.4   | 54.9   | 78.3   | 158.1  | 365.5  | 696.0  | 644.6  | 1372.1 | 1426.5 | 533.8  | 237.4  |
| 82.5° | 21.4   | 23.4   | 41.7   | 103.7  | 216.1  | 499.7  | 555.2  | 606.5  | 587.7  | 117.4  | 99.6   |
| 85°   | 4.1    | 5.1    | 17.8   | 61.5   | 108.8  | 208.9  | 409.2  | 297.4  | 275.5  | 44.2   | 57.4   |
| 87.5° | 0.5    | 1.0    | 5.1    | 14.7   | 15.8   | 70.7   | 121.0  | 82.4   | 71.2   | 16.3   | 23.9   |
| 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: P451182

CATALOG NUMBER: GLAN-SA2A-740-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 | 1784.9 |
| 2.5°  | 1785.9 | 1772.2 | 1726.5 | 1681.2 | 1635.0 | 1593.3 | 1564.8 | 1518.5 | 1506.8 | 1490.1 | 1480.4 |
| 5°    | 1782.4 | 1750.4 | 1662.4 | 1566.3 | 1476.8 | 1380.3 | 1306.5 | 1235.4 | 1197.2 | 1177.9 | 1170.8 |
| 7.5°  | 1772.2 | 1721.4 | 1584.1 | 1433.6 | 1290.3 | 1145.9 | 1020.3 | 924.7  | 863.2  | 821.0  | 792.6  |
| 10°   | 1751.9 | 1681.7 | 1493.1 | 1286.2 | 1069.6 | 879.0  | 719.9  | 598.9  | 505.3  | 475.8  | 476.9  |
| 12.5° | 1731.0 | 1637.5 | 1391.4 | 1122.5 | 854.1  | 613.6  | 444.8  | 349.3  | 304.5  | 289.8  | 286.7  |
| 15°   | 1711.7 | 1595.3 | 1291.8 | 963.9  | 636.0  | 397.6  | 286.7  | 253.2  | 241.0  | 238.4  | 237.9  |
| 17.5° | 1701.6 | 1556.2 | 1185.5 | 782.4  | 443.8  | 270.0  | 229.8  | 220.6  | 217.1  | 214.5  | 213.5  |
| 20°   | 1692.9 | 1522.1 | 1083.9 | 612.6  | 303.5  | 221.1  | 205.9  | 197.3  | 191.2  | 188.6  | 187.1  |
| 22.5° | 1686.8 | 1487.0 | 978.6  | 474.3  | 232.3  | 196.2  | 182.5  | 171.3  | 162.7  | 159.6  | 157.6  |
| 25°   | 1677.7 | 1448.4 | 872.4  | 346.7  | 195.7  | 174.4  | 158.6  | 145.4  | 134.2  | 128.6  | 127.6  |
| 27.5° | 1664.4 | 1404.7 | 756.0  | 256.7  | 174.9  | 155.1  | 135.7  | 119.5  | 108.3  | 102.2  | 102.7  |
| 30°   | 1643.1 | 1358.9 | 639.5  | 203.9  | 158.1  | 135.2  | 114.4  | 98.6   | 88.0   | 83.4   | 82.9   |
| 32.5° | 1617.7 | 1303.5 | 532.8  | 174.9  | 142.9  | 117.4  | 95.6   | 81.8   | 73.7   | 70.2   | 69.6   |
| 35°   | 1593.8 | 1247.6 | 424.0  | 157.1  | 127.1  | 101.2  | 80.3   | 68.6   | 62.5   | 59.5   | 60.0   |
| 37.5° | 1580.6 | 1197.7 | 330.4  | 142.9  | 114.4  | 86.9   | 69.1   | 59.0   | 53.4   | 50.8   | 50.3   |
| 40°   | 1589.2 | 1157.1 | 262.8  | 130.1  | 100.2  | 74.7   | 59.5   | 50.8   | 45.2   | 41.7   | 41.7   |
| 42.5° | 1629.9 | 1139.3 | 212.0  | 117.9  | 86.9   | 64.6   | 51.9   | 43.7   | 37.6   | 34.1   | 34.6   |
| 45°   | 1753.9 | 1158.1 | 177.4  | 106.8  | 74.7   | 55.9   | 44.7   | 36.1   | 30.5   | 28.0   | 27.5   |
| 47.5° | 1959.8 | 1228.8 | 153.5  | 95.1   | 64.1   | 47.8   | 37.6   | 30.0   | 24.4   | 22.4   | 21.9   |
| 50°   | 2319.7 | 1374.7 | 135.7  | 83.4   | 54.4   | 40.7   | 31.0   | 23.9   | 19.3   | 17.3   | 17.3   |
| 52.5° | 2814.9 | 1692.9 | 123.0  | 70.2   | 45.8   | 34.6   | 25.4   | 19.3   | 15.3   | 13.7   | 13.2   |
| 55°   | 3332.4 | 2028.4 | 116.4  | 59.0   | 38.1   | 28.5   | 20.3   | 15.3   | 11.7   | 10.2   | 9.7    |
| 57.5° | 3830.2 | 2291.8 | 108.8  | 47.8   | 30.5   | 21.9   | 15.8   | 11.7   | 8.1    | 7.1    | 6.6    |
| 60°   | 4307.5 | 2504.8 | 92.5   | 38.1   | 23.9   | 15.8   | 11.7   | 8.1    | 5.6    | 4.6    | 4.6    |
| 62.5° | 4734.6 | 2628.8 | 72.7   | 30.5   | 18.3   | 11.2   | 7.6    | 6.1    | 4.1    | 3.1    | 3.1    |
| 65°   | 4784.4 | 2467.7 | 54.9   | 23.4   | 13.2   | 7.1    | 4.6    | 4.6    | 3.1    | 2.0    | 2.0    |
| 66°   | 4684.2 | 2330.9 | 48.3   | 21.4   | 11.7   | 6.1    | 4.1    | 3.6    | 2.5    | 1.5    | 1.5    |
| 67.5° | 4460.5 | 2097.6 | 41.7   | 18.3   | 9.7    | 4.6    | 3.1    | 3.1    | 2.0    | 1.0    | 1.0    |
| 70°   | 3854.0 | 1713.2 | 33.0   | 13.7   | 7.1    | 3.6    | 2.0    | 2.0    | 1.5    | 1.0    | 1.0    |
| 72.5° | 2937.4 | 1279.1 | 26.9   | 10.2   | 5.1    | 2.5    | 1.5    | 1.5    | 1.5    | 1.0    | 1.0    |
| 75°   | 1771.7 | 688.9  | 20.8   | 7.6    | 4.6    | 2.0    | 1.0    | 1.5    | 2.0    | 1.5    | 1.0    |
| 77.5° | 652.8  | 234.4  | 16.3   | 6.1    | 3.6    | 2.0    | 1.0    | 1.0    | 2.0    | 1.5    | 1.5    |
| 80°   | 160.1  | 61.0   | 11.7   | 5.1    | 3.6    | 2.0    | 1.0    | 1.0    | 2.0    | 2.0    | 2.0    |
| 82.5° | 74.2   | 25.9   | 8.1    | 4.6    | 3.6    | 2.0    | 1.0    | 1.0    | 1.5    | 2.0    | 2.0    |
| 85°   | 42.7   | 12.2   | 6.6    | 5.1    | 3.6    | 2.0    | 1.0    | 1.0    | 1.5    | 2.0    | 2.0    |
| 87.5° | 17.3   | 6.1    | 6.1    | 5.1    | 4.1    | 2.5    | 1.0    | 1.0    | 1.0    | 1.5    | 1.5    |
| 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)