

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: McGRAW-EDISON

Report Number: P319476

Luminaire Tested: **GLEON-SA2B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8420 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

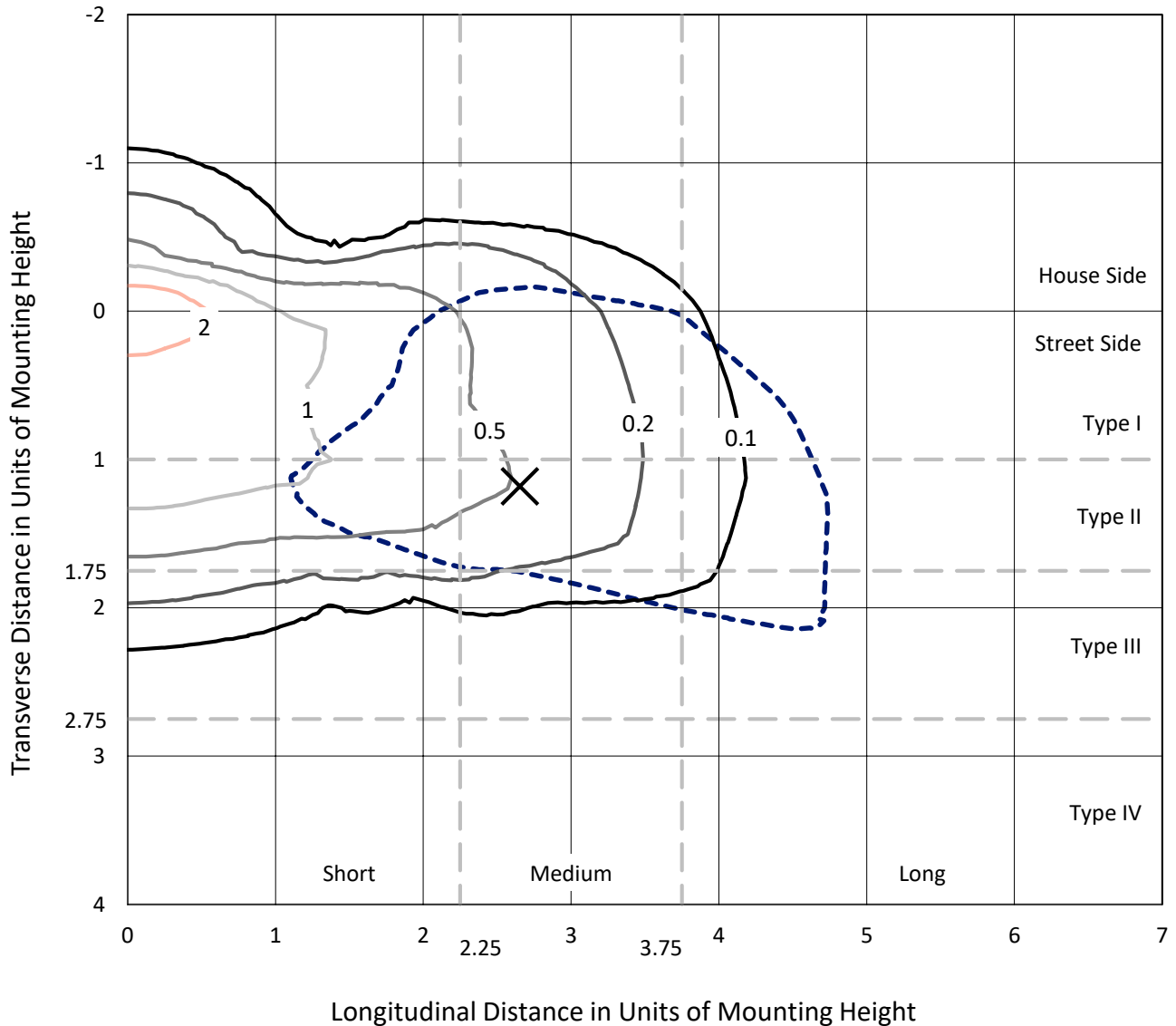
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319476
 CATALOG NUMBER: GLEON-SA2B-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

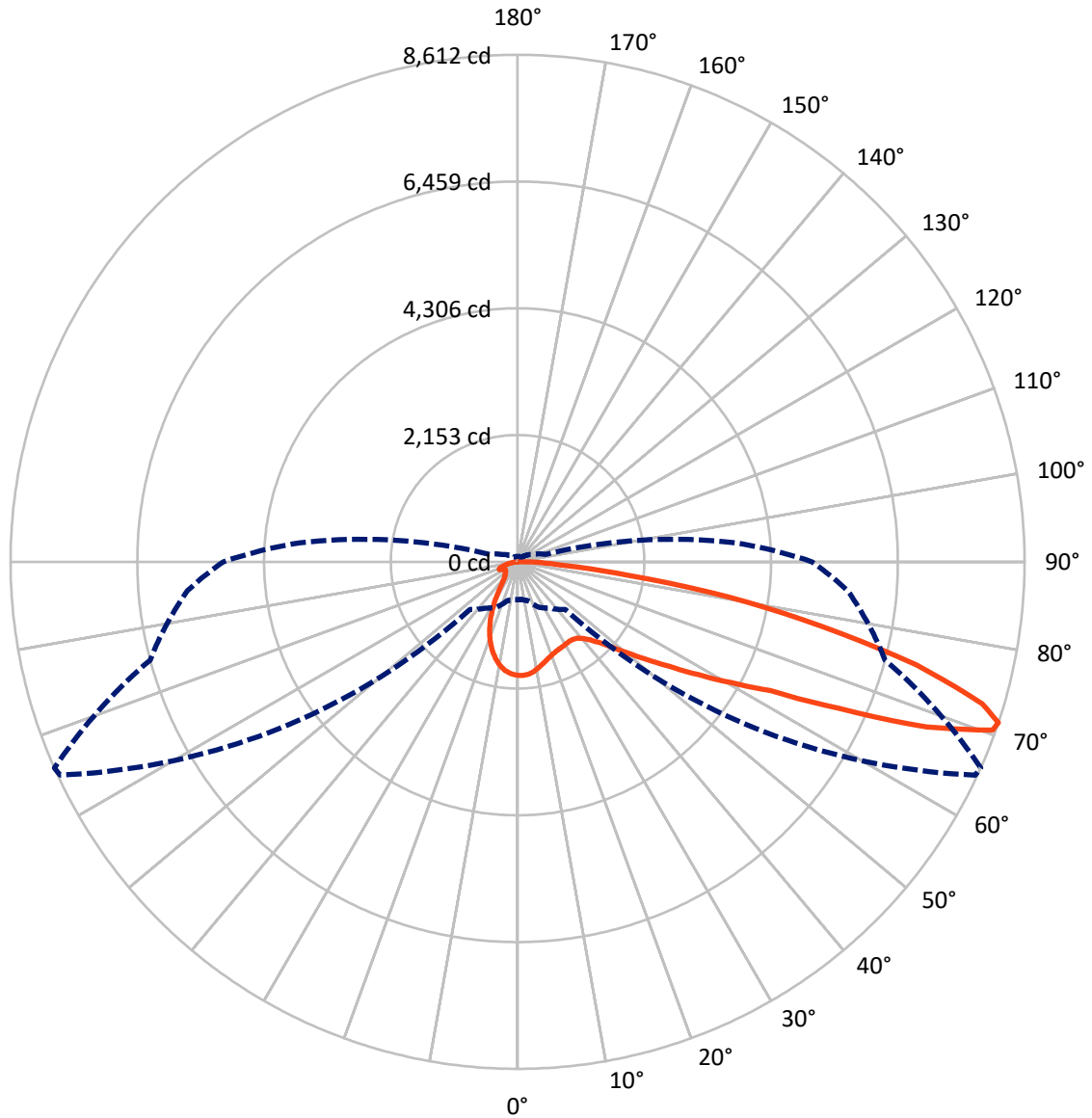
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P319476
CATALOG NUMBER: GLEON-SA2B-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P319476
 CATALOG NUMBER: GLEON-SA2B-827-U-SL2

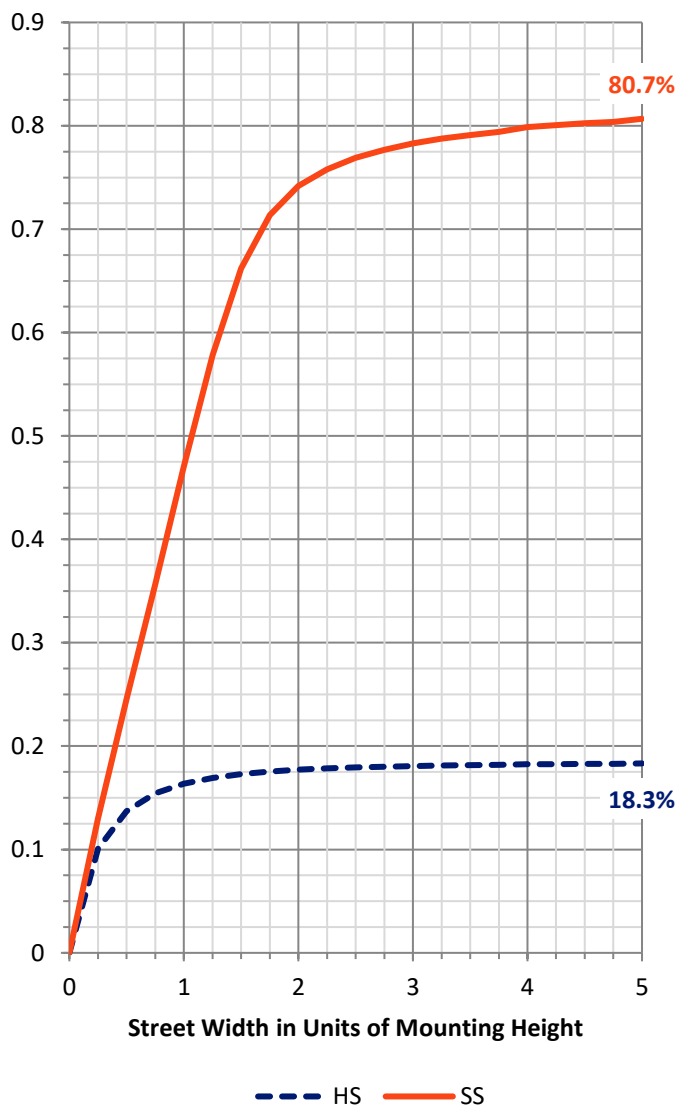
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1560.5 | 0.0 | 1560.5 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 6859.5 | 0.0 | 6859.5 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 8420.0 | 0.0 | 8420.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 169.8 | 2.0 |
| 10°-20° | 407.2 | 4.8 |
| 20°-30° | 547.0 | 6.5 |
| 30°-40° | 719.6 | 8.5 |
| 40°-50° | 1046.8 | 12.4 |
| 50°-60° | 1635.2 | 19.4 |
| 60°-70° | 2048.3 | 24.3 |
| 70°-80° | 1562.4 | 18.6 |
| 80°-90° | 283.7 | 3.4 |
| 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° | 8420.0 | 100.0 |
| 0°-180° | 8420.0 | 100.0 |

Coefficient of Utilization

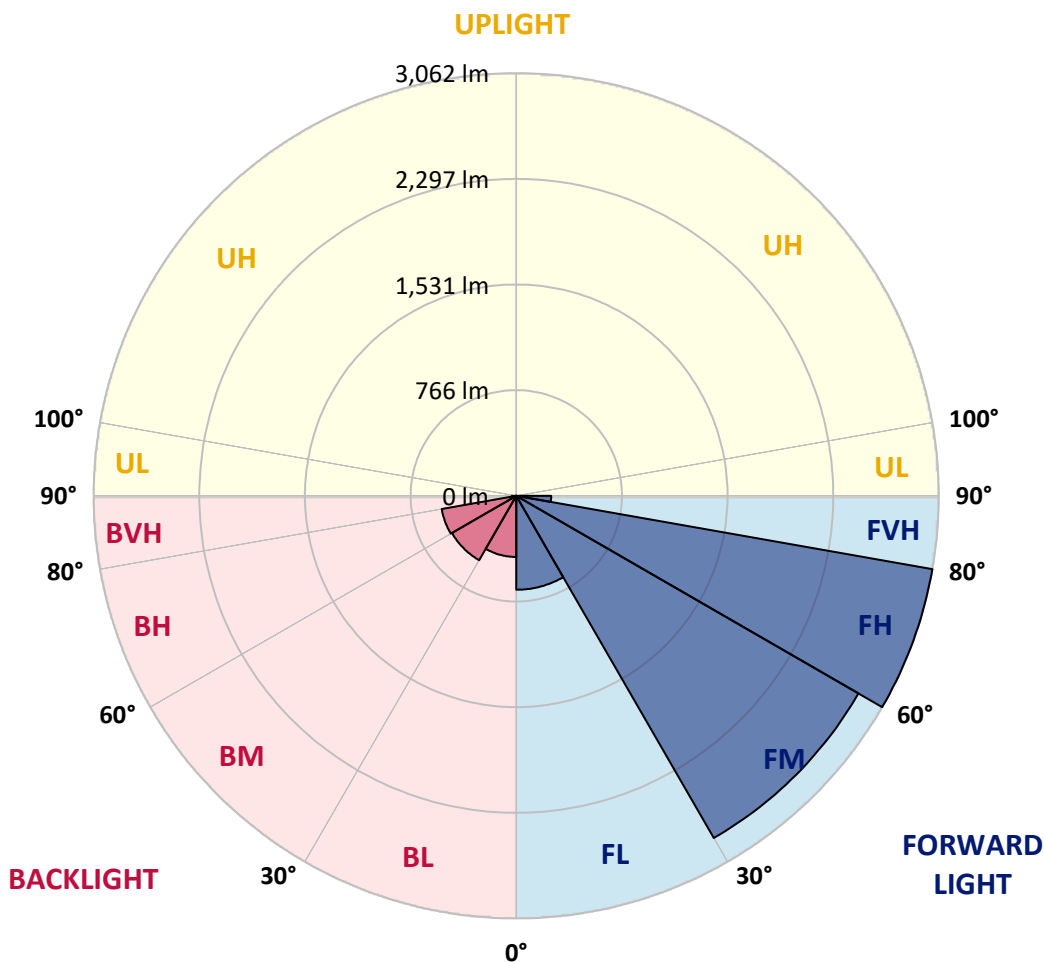


REPORT NUMBER: P319476
 CATALOG NUMBER: GLEON-SA2B-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 680.9 | 8.1 | | | |
| FM (30°-60°) | 2863.2 | 34.0 | | | |
| FH (60°-80°) | 3062.4 | 36.4 | | | G2/5000 |
| FVH (80°-90°) | 253.0 | 3.0 | | | G3/500 |
| BL (0°-30°) | 443.1 | 5.3 | B1/500 | | |
| BM (30°-60°) | 538.3 | 6.4 | B1/1000 | | |
| BH (60°-80°) | 548.3 | 6.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 30.7 | 0.4 | | | 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 III Medium





REPORT NUMBER: P319476
 CATALOG NUMBER: GLEON-SA2B-827-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 |
| 2.5° | 1893.1 | 1890.2 | 1898.9 | 1907.9 | 1911.4 | 1917.2 | 1926.0 | 1930.9 | 1930.6 | 1931.5 | 1928.6 |
| 5° | 1767.5 | 1763.7 | 1781.2 | 1795.4 | 1822.7 | 1853.6 | 1891.1 | 1917.8 | 1918.4 | 1933.5 | 1937.6 |
| 7.5° | 1648.6 | 1646.0 | 1666.1 | 1689.0 | 1720.7 | 1767.8 | 1828.6 | 1886.1 | 1889.6 | 1930.6 | 1944.8 |
| 10° | 1553.3 | 1552.7 | 1572.2 | 1597.2 | 1634.1 | 1686.7 | 1756.5 | 1840.8 | 1846.0 | 1916.6 | 1946.0 |
| 12.5° | 1478.8 | 1480.0 | 1496.9 | 1525.4 | 1564.3 | 1619.3 | 1694.8 | 1789.9 | 1798.3 | 1894.6 | 1939.3 |
| 15° | 1423.9 | 1428.5 | 1442.2 | 1471.0 | 1509.4 | 1565.2 | 1642.8 | 1742.8 | 1755.6 | 1869.8 | 1935.5 |
| 17.5° | 1392.5 | 1397.7 | 1407.3 | 1431.2 | 1467.2 | 1521.0 | 1594.5 | 1704.1 | 1715.8 | 1850.9 | 1935.8 |
| 20° | 1383.2 | 1387.6 | 1393.1 | 1407.6 | 1438.1 | 1487.0 | 1556.5 | 1669.3 | 1681.8 | 1835.8 | 1938.7 |
| 22.5° | 1401.5 | 1404.7 | 1405.3 | 1404.1 | 1422.7 | 1462.6 | 1528.8 | 1643.7 | 1657.0 | 1825.9 | 1940.8 |
| 25° | 1440.8 | 1445.1 | 1441.9 | 1431.2 | 1425.1 | 1449.5 | 1514.6 | 1626.8 | 1640.2 | 1818.7 | 1936.7 |
| 27.5° | 1499.8 | 1500.4 | 1497.7 | 1483.8 | 1455.0 | 1450.9 | 1510.2 | 1616.9 | 1629.7 | 1810.2 | 1928.3 |
| 30° | 1580.0 | 1583.8 | 1579.1 | 1560.2 | 1513.1 | 1474.2 | 1515.5 | 1607.3 | 1619.0 | 1799.5 | 1914.6 |
| 32.5° | 1673.9 | 1683.2 | 1682.9 | 1663.2 | 1595.7 | 1526.2 | 1537.0 | 1601.5 | 1610.5 | 1788.2 | 1898.0 |
| 35° | 1771.3 | 1784.1 | 1807.9 | 1799.5 | 1716.1 | 1608.5 | 1578.3 | 1610.8 | 1616.9 | 1786.7 | 1886.4 |
| 37.5° | 1872.5 | 1885.3 | 1934.4 | 1957.1 | 1859.4 | 1726.2 | 1643.4 | 1643.7 | 1646.6 | 1804.4 | 1885.5 |
| 40° | 1978.3 | 1991.9 | 2065.8 | 2124.8 | 2045.1 | 1875.4 | 1748.3 | 1712.3 | 1709.1 | 1848.0 | 1902.7 |
| 42.5° | 2126.5 | 2138.8 | 2227.4 | 2302.7 | 2251.3 | 2066.4 | 1893.4 | 1818.1 | 1811.4 | 1933.5 | 1957.6 |
| 45° | 2314.0 | 2324.5 | 2418.7 | 2499.2 | 2472.8 | 2284.4 | 2075.7 | 1963.7 | 1962.6 | 2076.0 | 2069.0 |
| 47.5° | 2537.0 | 2545.2 | 2629.8 | 2707.7 | 2717.3 | 2535.3 | 2304.7 | 2188.5 | 2169.6 | 2271.3 | 2241.4 |
| 50° | 2769.3 | 2778.3 | 2835.9 | 2919.6 | 2990.8 | 2871.0 | 2599.5 | 2463.8 | 2438.5 | 2529.2 | 2485.6 |
| 52.5° | 2923.1 | 2935.0 | 2985.0 | 3091.1 | 3298.4 | 3239.1 | 2948.1 | 2797.5 | 2759.1 | 2841.7 | 2808.3 |
| 55° | 2854.5 | 2881.2 | 2957.7 | 3127.7 | 3544.3 | 3801.3 | 3378.0 | 3186.8 | 3143.4 | 3212.1 | 3192.3 |
| 57.5° | 2542.5 | 2579.2 | 2683.5 | 2946.1 | 3578.9 | 4296.7 | 4028.1 | 3645.2 | 3614.7 | 3594.9 | 3603.9 |
| 60° | 1972.5 | 2007.6 | 2137.0 | 2479.2 | 3337.9 | 4658.3 | 5006.3 | 4210.3 | 4166.2 | 3979.2 | 3987.4 |
| 62.5° | 1396.0 | 1378.3 | 1466.9 | 1717.2 | 2712.3 | 4700.8 | 6119.4 | 4966.2 | 4820.8 | 4385.1 | 4349.3 |
| 65° | 1064.6 | 1060.5 | 1100.3 | 1180.0 | 1642.8 | 4192.9 | 6782.5 | 6236.6 | 6009.6 | 4862.4 | 4778.1 |
| 67.5° | 874.7 | 867.5 | 906.7 | 1022.7 | 1057.9 | 2705.1 | 6797.1 | 7710.5 | 7487.5 | 5456.6 | 5274.1 |
| 70° | 719.2 | 711.1 | 747.7 | 897.4 | 977.7 | 1371.9 | 5720.6 | 8573.6 | 8561.7 | 6209.0 | 5648.5 |
| 71° | 644.8 | 639.0 | 682.9 | 849.2 | 960.5 | 1143.4 | 4939.2 | 8575.9 | 8611.7 | 6463.6 | 5626.4 |
| 72.5° | 525.0 | 527.1 | 573.6 | 755.8 | 947.7 | 1009.6 | 3630.1 | 8176.2 | 8251.8 | 6706.4 | 5425.5 |
| 75° | 348.9 | 350.6 | 411.6 | 581.4 | 918.9 | 987.8 | 1995.1 | 6860.7 | 6999.7 | 6561.0 | 4950.8 |
| 77.5° | 234.3 | 233.7 | 275.3 | 398.9 | 800.6 | 987.8 | 1169.8 | 5131.3 | 5283.9 | 5220.6 | 3816.7 |
| 80° | 161.3 | 160.2 | 189.5 | 275.3 | 606.1 | 999.8 | 904.4 | 3596.1 | 3642.3 | 2819.3 | 1551.2 |
| 82.5° | 98.8 | 99.7 | 123.8 | 194.5 | 412.5 | 899.7 | 853.8 | 1960.8 | 1910.5 | 790.7 | 387.5 |
| 85° | 56.7 | 56.4 | 79.1 | 131.7 | 264.8 | 759.3 | 832.6 | 843.9 | 774.2 | 238.1 | 140.1 |
| 87.5° | 20.3 | 21.8 | 42.4 | 73.0 | 151.8 | 528.8 | 706.4 | 439.0 | 395.7 | 107.6 | 63.4 |
| 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: P319476
 CATALOG NUMBER: GLEON-SA2B-827-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 | 1928.9 |
| 2.5° | 1926.5 | 1928.3 | 1926.2 | 1914.6 | 1904.7 | 1888.7 | 1879.7 | 1867.2 | 1863.4 | 1861.7 | 1866.4 |
| 5° | 1933.8 | 1934.4 | 1917.2 | 1886.7 | 1852.4 | 1812.0 | 1782.9 | 1747.2 | 1730.3 | 1723.0 | 1727.7 |
| 7.5° | 1940.5 | 1937.9 | 1900.4 | 1841.9 | 1778.6 | 1708.2 | 1645.7 | 1588.4 | 1555.0 | 1541.3 | 1542.5 |
| 10° | 1941.4 | 1930.3 | 1870.1 | 1779.7 | 1681.5 | 1578.3 | 1482.3 | 1394.0 | 1338.1 | 1301.8 | 1312.8 |
| 12.5° | 1932.3 | 1913.7 | 1825.7 | 1699.2 | 1562.9 | 1422.2 | 1292.5 | 1159.9 | 1080.3 | 1043.4 | 1044.5 |
| 15° | 1925.4 | 1891.6 | 1771.0 | 1604.4 | 1421.3 | 1234.9 | 1057.9 | 902.1 | 817.2 | 779.4 | 761.7 |
| 17.5° | 1919.6 | 1867.8 | 1707.6 | 1497.7 | 1254.1 | 1017.8 | 805.0 | 666.0 | 619.5 | 608.5 | 603.8 |
| 20° | 1911.4 | 1842.5 | 1637.0 | 1374.2 | 1063.7 | 774.7 | 587.8 | 519.2 | 519.5 | 532.3 | 534.0 |
| 22.5° | 1900.1 | 1813.7 | 1561.7 | 1235.5 | 859.3 | 564.3 | 460.8 | 441.0 | 461.1 | 485.5 | 489.8 |
| 25° | 1883.2 | 1779.7 | 1478.0 | 1082.3 | 655.3 | 433.7 | 393.6 | 392.7 | 417.2 | 442.8 | 446.5 |
| 27.5° | 1859.4 | 1735.2 | 1384.9 | 917.8 | 482.9 | 368.6 | 352.6 | 358.7 | 376.8 | 395.4 | 396.8 |
| 30° | 1827.4 | 1683.5 | 1282.3 | 744.2 | 378.5 | 328.2 | 326.5 | 332.0 | 343.0 | 356.1 | 357.3 |
| 32.5° | 1792.2 | 1630.9 | 1172.7 | 576.2 | 324.1 | 306.4 | 308.2 | 310.8 | 316.0 | 321.2 | 322.4 |
| 35° | 1760.2 | 1577.1 | 1060.5 | 437.8 | 298.3 | 292.2 | 291.0 | 290.4 | 291.0 | 289.3 | 289.5 |
| 37.5° | 1739.6 | 1532.6 | 943.6 | 348.6 | 283.4 | 279.7 | 276.2 | 271.8 | 266.9 | 264.0 | 264.5 |
| 40° | 1732.0 | 1499.5 | 825.3 | 301.2 | 271.2 | 268.6 | 261.9 | 252.6 | 246.8 | 245.1 | 245.1 |
| 42.5° | 1752.4 | 1482.3 | 711.1 | 277.3 | 261.1 | 256.7 | 245.6 | 234.9 | 230.5 | 230.2 | 230.0 |
| 45° | 1814.6 | 1489.3 | 602.4 | 264.3 | 251.8 | 243.3 | 228.8 | 219.8 | 216.9 | 217.5 | 217.2 |
| 47.5° | 1926.2 | 1533.2 | 509.3 | 255.5 | 242.5 | 231.4 | 215.1 | 207.9 | 204.4 | 204.4 | 204.7 |
| 50° | 2116.1 | 1635.8 | 435.2 | 248.3 | 234.6 | 220.4 | 205.2 | 196.2 | 191.6 | 191.3 | 191.3 |
| 52.5° | 2392.5 | 1819.6 | 389.0 | 242.2 | 225.9 | 210.5 | 195.4 | 184.0 | 178.5 | 177.3 | 176.8 |
| 55° | 2739.1 | 2082.9 | 376.2 | 238.1 | 214.3 | 199.7 | 183.4 | 172.1 | 166.0 | 163.4 | 163.1 |
| 57.5° | 3126.6 | 2403.3 | 401.5 | 233.1 | 202.3 | 186.9 | 170.4 | 159.6 | 153.2 | 150.0 | 149.7 |
| 60° | 3518.8 | 2753.0 | 504.7 | 226.2 | 192.4 | 173.0 | 157.0 | 147.1 | 140.7 | 137.2 | 136.6 |
| 62.5° | 3911.5 | 3121.6 | 715.4 | 225.6 | 185.5 | 159.6 | 143.3 | 134.9 | 128.8 | 125.0 | 124.1 |
| 65° | 4354.5 | 3525.1 | 955.0 | 241.0 | 183.1 | 147.4 | 129.4 | 122.7 | 117.4 | 114.0 | 113.7 |
| 67.5° | 4863.3 | 3980.7 | 932.0 | 272.7 | 191.0 | 136.3 | 116.3 | 111.1 | 107.3 | 104.4 | 104.1 |
| 70° | 5102.0 | 3909.5 | 579.4 | 295.1 | 202.0 | 125.6 | 103.8 | 100.0 | 97.1 | 95.1 | 94.2 |
| 71° | 5002.0 | 3712.1 | 485.8 | 292.5 | 200.9 | 120.9 | 98.8 | 95.9 | 93.0 | 91.3 | 90.4 |
| 72.5° | 4729.3 | 3385.3 | 405.2 | 272.1 | 187.8 | 112.5 | 92.4 | 89.5 | 86.9 | 84.9 | 84.3 |
| 75° | 4243.8 | 3023.4 | 324.4 | 217.5 | 149.7 | 95.1 | 81.1 | 77.9 | 75.9 | 74.7 | 73.5 |
| 77.5° | 3119.6 | 2157.6 | 250.9 | 171.8 | 110.2 | 77.6 | 69.2 | 66.9 | 64.8 | 63.1 | 62.2 |
| 80° | 1195.1 | 835.8 | 168.9 | 128.2 | 80.8 | 61.3 | 55.8 | 54.7 | 52.6 | 51.5 | 51.5 |
| 82.5° | 321.8 | 249.7 | 90.1 | 77.6 | 54.1 | 44.8 | 42.7 | 42.2 | 40.4 | 38.1 | 38.4 |
| 85° | 130.2 | 110.2 | 50.6 | 42.7 | 33.1 | 26.5 | 28.8 | 29.1 | 27.0 | 24.1 | 24.4 |
| 87.5° | 57.3 | 46.8 | 28.2 | 18.9 | 14.5 | 10.2 | 13.1 | 13.1 | 11.9 | 9.9 | 9.0 |
| 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)