

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: P526412

Luminaire Tested: **GALN-SA1B-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-760-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4880 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

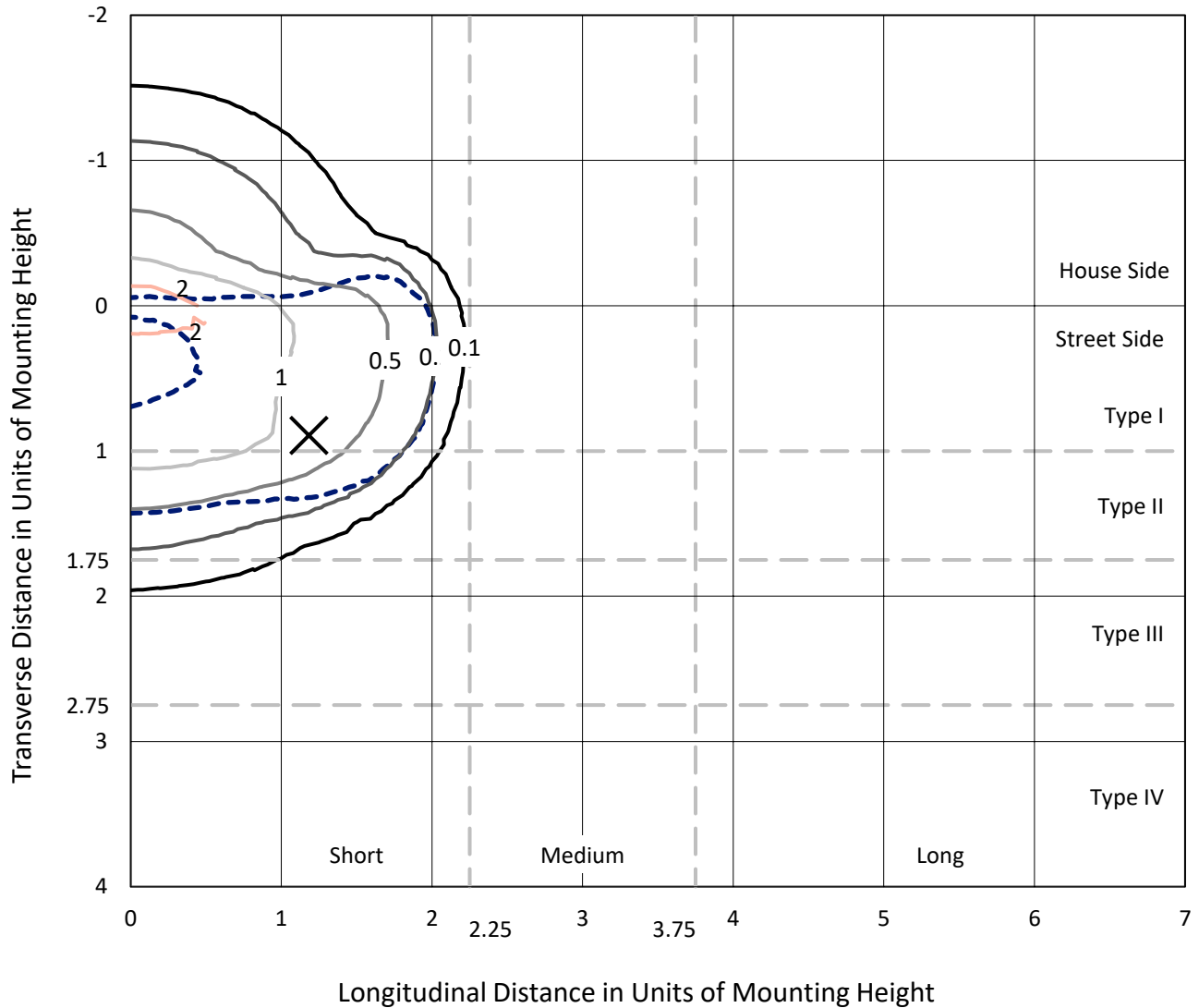
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

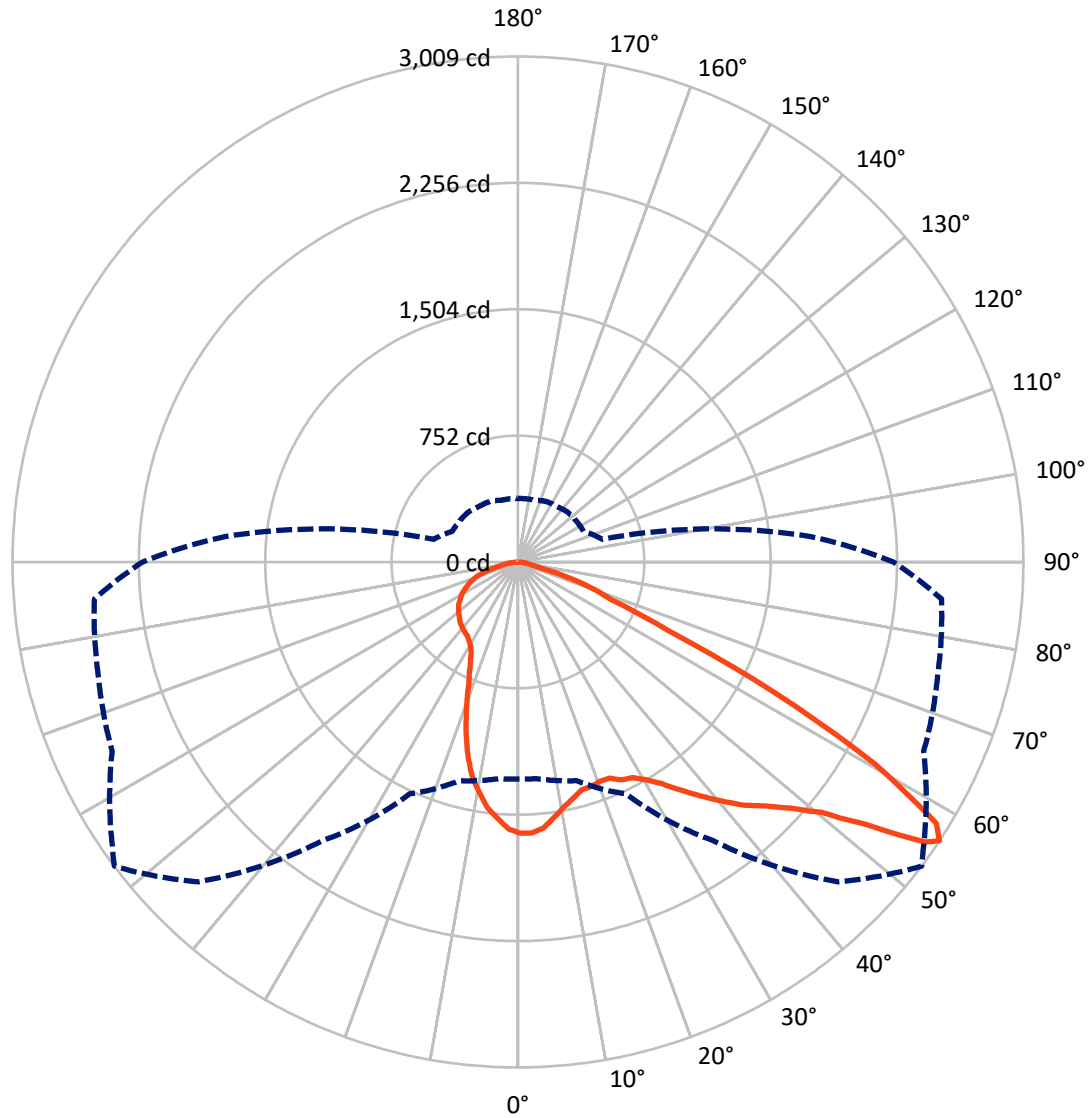
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1424.1   | 0.0    | 1424.1 |
|                    | % Fixture | 29.2     | 0.0    | 29.2   |
| <b>Street Side</b> | Lumens    | 3455.9   | 0.0    | 3455.9 |
|                    | % Fixture | 70.8     | 0.0    | 70.8   |
| <b>Total</b>       | Lumens    | 4880.0   | 0.0    | 4880.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 142.9  | 2.9       |
| 10°-20°   | 357.0  | 7.3       |
| 20°-30°   | 526.4  | 10.8      |
| 30°-40°   | 752.1  | 15.4      |
| 40°-50°   | 1035.2 | 21.2      |
| 50°-60°   | 1223.3 | 25.1      |
| 60°-70°   | 651.9  | 13.4      |
| 70°-80°   | 165.4  | 3.4       |
| 80°-90°   | 25.8   | 0.5       |
| 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°    | 4880.0 | 100.0     |
| 0°-180°   | 4880.0 | 100.0     |



REPORT NUMBER: P526412

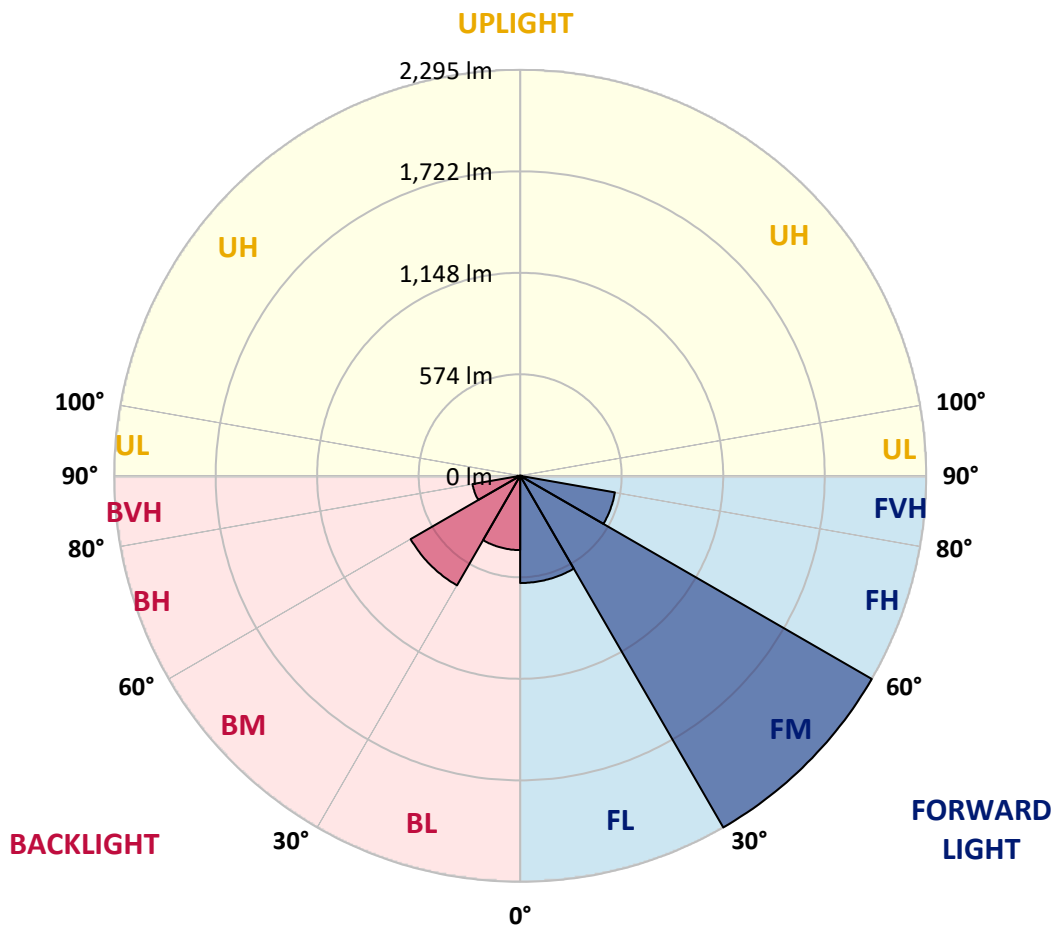
CATALOG NUMBER: GALN-SA1B-760-U-SL2-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 606.3  | 12.4      |                         |      |        |
| FM (30°-60°)   | 2295.5 | 47.0      |                         |      |        |
| FH (60°-80°)   | 543.8  | 11.1      |                         |      | G0/660 |
| FVH (80°-90°)  | 10.4   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 420.0  | 8.6       | B1/500                  |      |        |
| BM (30°-60°)   | 715.1  | 14.7      | B1/1000                 |      |        |
| BH (60°-80°)   | 273.5  | 5.6       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 15.4   | 0.3       |                         |      | G1/100 |
| 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 |
| 2.5°  | 1594.5 | 1580.7 | 1588.8 | 1585.7 | 1611.4 | 1618.9 | 1615.1 | 1618.3 | 1632.7 | 1625.8 | 1611.4 |
| 5°    | 1489.9 | 1509.3 | 1513.1 | 1522.5 | 1537.5 | 1566.9 | 1590.1 | 1596.3 | 1603.2 | 1635.2 | 1632.0 |
| 7.5°  | 1394.8 | 1407.9 | 1401.0 | 1428.6 | 1461.1 | 1508.7 | 1536.9 | 1541.9 | 1605.1 | 1622.6 | 1635.8 |
| 10°   | 1334.7 | 1321.5 | 1352.8 | 1360.3 | 1397.3 | 1451.7 | 1485.5 | 1506.2 | 1563.8 | 1633.3 | 1641.4 |
| 12.5° | 1279.0 | 1274.6 | 1293.3 | 1314.6 | 1356.0 | 1412.3 | 1446.7 | 1454.9 | 1543.8 | 1617.0 | 1655.2 |
| 15°   | 1237.6 | 1232.6 | 1251.4 | 1267.1 | 1315.3 | 1365.3 | 1409.2 | 1432.3 | 1521.8 | 1607.6 | 1643.3 |
| 17.5° | 1205.1 | 1204.5 | 1215.1 | 1243.3 | 1292.7 | 1334.7 | 1405.4 | 1406.7 | 1510.6 | 1622.0 | 1653.3 |
| 20°   | 1203.2 | 1202.6 | 1204.5 | 1235.8 | 1280.8 | 1332.2 | 1393.5 | 1404.8 | 1510.6 | 1612.0 | 1653.9 |
| 22.5° | 1218.9 | 1208.8 | 1220.1 | 1240.1 | 1272.7 | 1336.5 | 1397.9 | 1422.9 | 1546.9 | 1661.4 | 1682.1 |
| 25°   | 1243.9 | 1246.4 | 1252.7 | 1259.5 | 1278.3 | 1346.6 | 1436.7 | 1457.4 | 1589.5 | 1704.0 | 1720.9 |
| 27.5° | 1289.6 | 1288.3 | 1290.8 | 1294.6 | 1310.9 | 1356.0 | 1452.4 | 1505.6 | 1678.3 | 1779.8 | 1762.9 |
| 30°   | 1356.6 | 1352.2 | 1362.2 | 1375.4 | 1360.3 | 1386.0 | 1504.3 | 1544.4 | 1761.0 | 1856.1 | 1809.8 |
| 32.5° | 1417.3 | 1433.6 | 1452.4 | 1458.0 | 1439.8 | 1444.8 | 1573.2 | 1613.9 | 1829.8 | 1950.0 | 1867.4 |
| 35°   | 1493.0 | 1506.2 | 1531.2 | 1548.8 | 1545.6 | 1530.6 | 1667.1 | 1720.9 | 1929.4 | 2018.9 | 1928.1 |
| 37.5° | 1566.9 | 1582.6 | 1623.9 | 1675.8 | 1647.0 | 1640.2 | 1767.2 | 1811.7 | 1960.1 | 2055.8 | 1972.6 |
| 40°   | 1685.9 | 1685.2 | 1756.6 | 1783.5 | 1809.2 | 1797.3 | 1871.2 | 1886.2 | 1976.3 | 2047.7 | 1973.8 |
| 42.5° | 1825.5 | 1816.7 | 1889.3 | 1931.3 | 1964.4 | 1965.7 | 1979.5 | 1974.5 | 1983.8 | 2006.4 | 1960.7 |
| 45°   | 1958.2 | 1977.0 | 2050.2 | 2125.3 | 2158.5 | 2162.3 | 2070.9 | 2061.5 | 1997.0 | 1994.5 | 1935.6 |
| 47.5° | 2120.3 | 2124.7 | 2184.8 | 2283.7 | 2360.7 | 2334.4 | 2189.2 | 2168.5 | 2054.6 | 2074.0 | 1977.6 |
| 50°   | 2129.7 | 2162.3 | 2216.1 | 2332.5 | 2569.2 | 2562.3 | 2342.6 | 2303.7 | 2147.2 | 2186.7 | 2094.7 |
| 52.5° | 1933.1 | 1925.6 | 1989.5 | 2179.8 | 2553.5 | 2788.9 | 2596.7 | 2504.1 | 2346.3 | 2316.3 | 2284.3 |
| 55°   | 1473.0 | 1490.5 | 1546.9 | 1739.1 | 2217.4 | 2792.0 | 2942.9 | 2867.2 | 2559.2 | 2507.8 | 2470.9 |
| 56°   | 1292.1 | 1294.6 | 1347.8 | 1523.1 | 2023.3 | 2692.5 | 3008.6 | 2947.3 | 2665.0 | 2586.7 | 2530.4 |
| 57.5° | 1071.1 | 1056.7 | 1084.3 | 1180.0 | 1707.8 | 2482.2 | 2936.6 | 2996.7 | 2788.9 | 2671.8 | 2593.6 |
| 60°   | 843.2  | 840.1  | 828.8  | 846.4  | 1079.3 | 1869.9 | 2444.6 | 2579.8 | 2776.4 | 2591.7 | 2484.0 |
| 62.5° | 688.6  | 673.0  | 695.5  | 720.5  | 750.0  | 1160.0 | 1717.8 | 1797.3 | 2204.2 | 2069.0 | 1866.2 |
| 65°   | 534.0  | 526.5  | 554.7  | 636.0  | 653.6  | 736.8  | 978.5  | 1039.8 | 1301.5 | 1278.3 | 1125.6 |
| 67.5° | 367.5  | 368.7  | 393.1  | 517.1  | 606.0  | 598.5  | 599.1  | 631.0  | 679.2  | 504.6  | 439.5  |
| 70°   | 232.9  | 232.3  | 245.4  | 333.0  | 487.7  | 492.7  | 467.6  | 458.2  | 434.5  | 262.9  | 278.6  |
| 72.5° | 149.6  | 145.2  | 152.1  | 184.0  | 252.3  | 291.7  | 300.5  | 306.1  | 251.7  | 206.6  | 224.1  |
| 75°   | 84.5   | 80.1   | 77.6   | 85.8   | 99.5   | 115.2  | 126.5  | 130.2  | 145.9  | 156.5  | 165.9  |
| 77.5° | 25.7   | 23.2   | 28.2   | 37.6   | 49.5   | 66.4   | 80.8   | 83.3   | 98.3   | 110.8  | 120.2  |
| 80°   | 11.3   | 12.5   | 17.5   | 25.0   | 35.1   | 47.0   | 57.0   | 60.7   | 70.7   | 80.1   | 82.6   |
| 82.5° | 6.9    | 7.5    | 11.9   | 16.9   | 24.4   | 33.2   | 40.7   | 41.9   | 52.0   | 59.5   | 61.3   |
| 85°   | 2.5    | 3.1    | 6.3    | 10.0   | 15.7   | 21.3   | 21.3   | 23.2   | 21.3   | 21.3   | 23.2   |
| 87.5° | 0.0    | 0.0    | 0.6    | 1.3    | 1.3    | 1.9    | 2.5    | 2.5    | 3.1    | 3.8    | 4.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: GALN-SA1B-760-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 | 1614.5 |
| 2.5°  | 1618.9 | 1615.7 | 1610.7 | 1592.6 | 1590.7 | 1585.1 | 1553.8 | 1548.8 | 1553.8 | 1538.7 | 1540.0 |
| 5°    | 1615.7 | 1625.1 | 1587.6 | 1569.4 | 1535.6 | 1511.2 | 1483.0 | 1468.6 | 1443.0 | 1426.7 | 1444.8 |
| 7.5°  | 1629.5 | 1625.8 | 1578.8 | 1539.4 | 1488.7 | 1426.7 | 1377.2 | 1349.1 | 1304.0 | 1291.5 | 1300.9 |
| 10°   | 1624.5 | 1604.5 | 1549.4 | 1497.4 | 1401.7 | 1347.2 | 1267.1 | 1189.4 | 1146.9 | 1125.0 | 1121.8 |
| 12.5° | 1617.6 | 1612.0 | 1520.0 | 1430.4 | 1329.7 | 1215.1 | 1102.4 | 1029.2 | 959.7  | 929.6  | 934.0  |
| 15°   | 1625.8 | 1578.2 | 1464.9 | 1351.6 | 1217.6 | 1067.4 | 945.9  | 851.4  | 803.2  | 783.8  | 783.8  |
| 17.5° | 1622.0 | 1561.9 | 1438.6 | 1263.3 | 1093.7 | 915.9  | 782.5  | 725.6  | 705.5  | 705.5  | 711.2  |
| 20°   | 1623.9 | 1572.6 | 1385.4 | 1175.0 | 947.2  | 771.3  | 674.2  | 653.6  | 662.3  | 665.5  | 668.6  |
| 22.5° | 1634.5 | 1537.5 | 1333.4 | 1078.0 | 811.3  | 659.8  | 612.2  | 612.9  | 628.5  | 645.4  | 642.3  |
| 25°   | 1647.7 | 1523.7 | 1270.2 | 981.6  | 707.4  | 605.4  | 590.3  | 588.5  | 600.3  | 609.1  | 610.4  |
| 27.5° | 1636.4 | 1499.9 | 1205.7 | 861.4  | 622.3  | 569.0  | 565.9  | 567.2  | 570.9  | 588.5  | 582.8  |
| 30°   | 1673.3 | 1506.8 | 1125.0 | 760.6  | 575.3  | 557.2  | 553.4  | 551.5  | 557.2  | 562.2  | 557.8  |
| 32.5° | 1719.0 | 1482.4 | 1064.9 | 663.6  | 552.1  | 548.4  | 540.9  | 538.4  | 541.5  | 536.5  | 539.0  |
| 35°   | 1739.1 | 1478.0 | 986.6  | 594.1  | 534.0  | 530.9  | 526.5  | 525.9  | 526.5  | 522.1  | 518.3  |
| 37.5° | 1750.3 | 1498.7 | 897.1  | 562.2  | 522.7  | 525.9  | 515.8  | 514.6  | 503.3  | 505.8  | 507.7  |
| 40°   | 1769.7 | 1466.8 | 824.5  | 531.5  | 515.8  | 509.6  | 500.8  | 498.9  | 491.4  | 487.0  | 491.4  |
| 42.5° | 1741.6 | 1457.4 | 753.1  | 518.3  | 505.8  | 498.9  | 492.7  | 482.0  | 479.5  | 475.8  | 473.3  |
| 45°   | 1719.0 | 1403.5 | 689.2  | 502.1  | 493.9  | 490.2  | 478.3  | 467.0  | 457.6  | 461.4  | 455.7  |
| 47.5° | 1735.9 | 1384.7 | 626.0  | 488.3  | 477.7  | 473.3  | 461.4  | 452.6  | 443.2  | 438.8  | 437.6  |
| 50°   | 1803.6 | 1419.8 | 572.8  | 478.3  | 463.9  | 461.4  | 445.7  | 435.7  | 426.9  | 423.8  | 425.1  |
| 52.5° | 1965.1 | 1515.6 | 536.5  | 457.6  | 450.7  | 439.5  | 430.7  | 418.2  | 412.5  | 402.5  | 408.8  |
| 55°   | 2169.8 | 1671.5 | 527.1  | 438.2  | 434.5  | 424.4  | 412.5  | 403.2  | 392.5  | 384.4  | 382.5  |
| 56°   | 2235.5 | 1746.0 | 519.6  | 430.7  | 424.4  | 418.8  | 403.2  | 397.5  | 380.6  | 378.7  | 377.5  |
| 57.5° | 2288.7 | 1811.7 | 520.8  | 416.3  | 410.0  | 405.0  | 395.6  | 381.9  | 370.6  | 363.7  | 366.8  |
| 60°   | 2168.5 | 1695.9 | 497.1  | 394.4  | 393.1  | 383.7  | 370.6  | 364.3  | 350.6  | 342.4  | 340.6  |
| 62.5° | 1612.0 | 1151.2 | 403.2  | 366.2  | 365.6  | 355.6  | 340.6  | 333.7  | 331.2  | 319.9  | 319.9  |
| 65°   | 928.4  | 721.8  | 348.7  | 343.1  | 338.0  | 328.0  | 313.0  | 307.4  | 301.1  | 297.4  | 294.2  |
| 67.5° | 396.3  | 374.4  | 316.8  | 316.1  | 310.5  | 298.0  | 283.0  | 274.2  | 266.1  | 258.5  | 262.3  |
| 70°   | 287.3  | 291.7  | 286.1  | 283.0  | 276.1  | 260.4  | 247.3  | 236.6  | 224.1  | 219.1  | 222.9  |
| 72.5° | 227.9  | 237.3  | 245.4  | 246.0  | 237.9  | 219.7  | 205.3  | 190.9  | 177.2  | 170.3  | 173.4  |
| 75°   | 172.8  | 179.0  | 187.2  | 189.1  | 177.2  | 164.6  | 150.9  | 135.8  | 125.2  | 117.1  | 118.3  |
| 77.5° | 124.6  | 123.3  | 130.8  | 129.6  | 124.0  | 115.2  | 102.7  | 88.9   | 77.0   | 69.5   | 70.1   |
| 80°   | 85.1   | 87.0   | 91.4   | 90.8   | 83.9   | 78.3   | 68.9   | 57.6   | 48.8   | 42.6   | 41.3   |
| 82.5° | 59.5   | 62.6   | 66.4   | 63.2   | 57.6   | 52.0   | 45.1   | 36.9   | 30.0   | 25.0   | 23.8   |
| 85°   | 21.3   | 24.4   | 28.2   | 30.0   | 31.9   | 30.7   | 25.7   | 20.7   | 15.0   | 12.5   | 11.9   |
| 87.5° | 4.4    | 5.0    | 5.6    | 5.6    | 5.6    | 5.0    | 4.4    | 4.4    | 3.8    | 1.9    | 1.9    |
| 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)