

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: P945894

Luminaire Tested: **GALN-SB1C-950-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-950-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

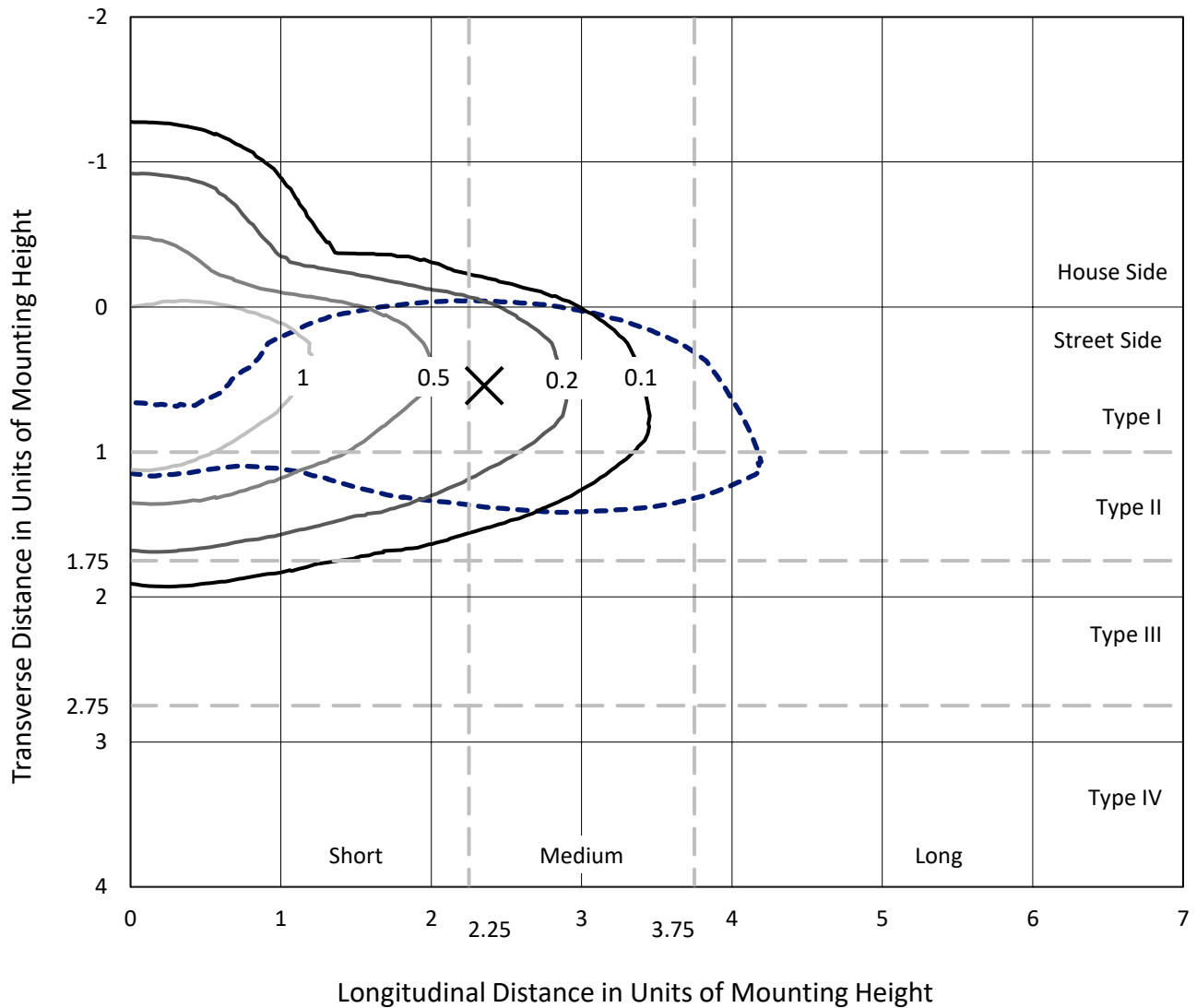
Lumens per Lamp: N/A  
Luminaire Lumens: 5308 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

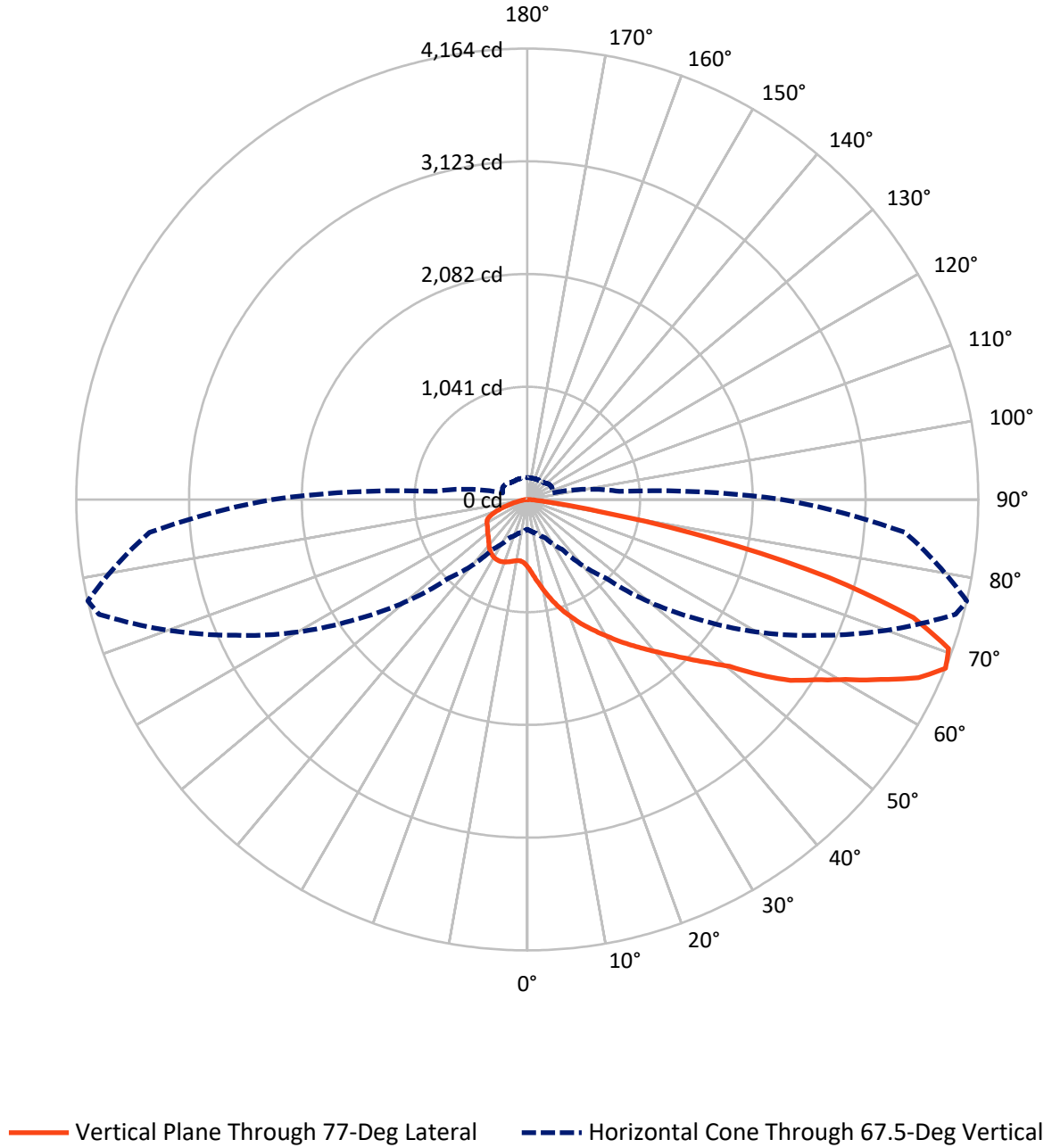
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1004.1   | 0.0    | 1004.1 |
|                    | % Fixture | 18.9     | 0.0    | 18.9   |
| <b>Street Side</b> | Lumens    | 4303.9   | 0.0    | 4303.9 |
|                    | % Fixture | 81.1     | 0.0    | 81.1   |
| <b>Total</b>       | Lumens    | 5308.0   | 0.0    | 5308.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.8   | 1.3       |
| 10°-20°   | 239.8  | 4.5       |
| 20°-30°   | 452.8  | 8.5       |
| 30°-40°   | 729.5  | 13.7      |
| 40°-50°   | 997.8  | 18.8      |
| 50°-60°   | 1125.5 | 21.2      |
| 60°-70°   | 1050.5 | 19.8      |
| 70°-80°   | 575.9  | 10.8      |
| 80°-90°   | 69.5   | 1.3       |
| 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°    | 5308.0 | 100.0     |
| 0°-180°   | 5308.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P945894

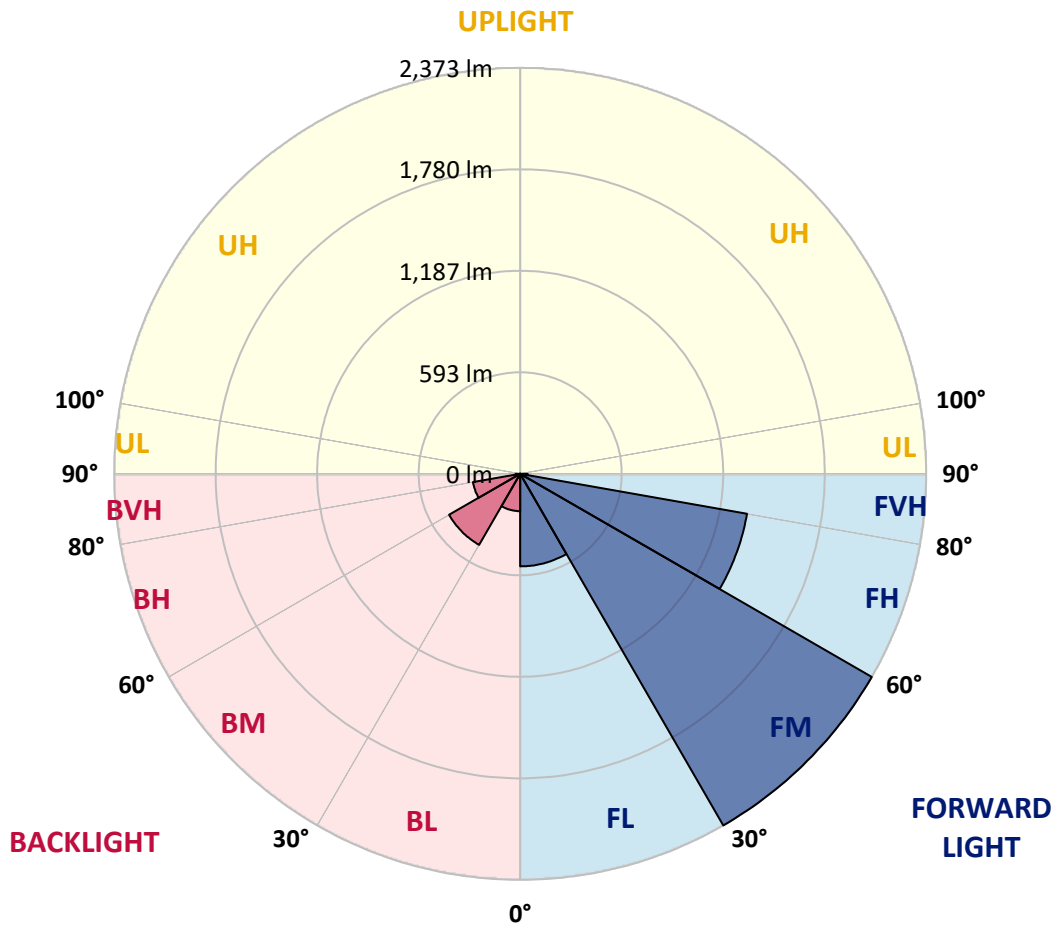
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 541.1  | 10.2      |                         |      |         |
| FM (30°-60°)   | 2373.1 | 44.7      |                         |      |         |
| FH (60°-80°)   | 1346.3 | 25.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 43.4   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 218.3  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 479.6  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 280.1  | 5.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 26.0   | 0.5       |                         |      | 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 622.8  | 622.8  | 622.8  | 622.8  | 622.8  | 622.8  | 622.8  | 622.8  | 622.8  | 622.8  |
| 2.5°  | 779.8  | 785.3  | 778.4  | 778.4  | 755.4  | 743.4  | 720.3  | 702.8  | 671.3  | 665.8  |
| 5°    | 921.7  | 928.6  | 919.0  | 914.9  | 887.7  | 862.8  | 824.2  | 786.1  | 729.9  | 724.2  |
| 7.5°  | 1031.6 | 1040.4 | 1031.9 | 1027.5 | 1003.4 | 975.4  | 930.2  | 877.1  | 797.9  | 786.6  |
| 10°   | 1121.2 | 1122.6 | 1119.8 | 1121.5 | 1102.6 | 1079.5 | 1033.2 | 971.3  | 872.4  | 857.1  |
| 12.5° | 1171.9 | 1178.2 | 1183.7 | 1193.5 | 1190.2 | 1176.0 | 1134.3 | 1060.4 | 951.3  | 931.6  |
| 15°   | 1195.7 | 1206.7 | 1219.0 | 1241.8 | 1260.1 | 1263.7 | 1231.9 | 1156.0 | 1031.6 | 1007.8 |
| 17.5° | 1204.2 | 1214.6 | 1234.1 | 1267.0 | 1306.4 | 1333.0 | 1318.7 | 1248.9 | 1111.1 | 1083.7 |
| 20°   | 1247.2 | 1250.2 | 1262.0 | 1293.3 | 1336.0 | 1380.1 | 1390.8 | 1338.2 | 1189.7 | 1158.7 |
| 22.5° | 1339.3 | 1333.3 | 1336.6 | 1350.8 | 1381.5 | 1424.2 | 1448.6 | 1417.1 | 1270.5 | 1234.9 |
| 25°   | 1491.4 | 1473.8 | 1456.3 | 1439.8 | 1455.5 | 1479.6 | 1507.3 | 1496.0 | 1355.2 | 1310.0 |
| 27.5° | 1683.4 | 1662.1 | 1623.4 | 1569.5 | 1550.5 | 1559.0 | 1571.4 | 1569.2 | 1433.5 | 1387.8 |
| 30°   | 1872.5 | 1847.6 | 1801.5 | 1723.4 | 1673.6 | 1651.1 | 1641.8 | 1635.5 | 1518.8 | 1470.0 |
| 32.5° | 2023.5 | 2003.7 | 1958.5 | 1871.1 | 1798.8 | 1760.4 | 1729.5 | 1707.0 | 1607.8 | 1559.0 |
| 35°   | 2155.5 | 2137.2 | 2085.4 | 1990.0 | 1911.4 | 1870.6 | 1830.0 | 1782.1 | 1700.4 | 1651.1 |
| 37.5° | 2276.1 | 2257.7 | 2186.8 | 2087.6 | 2008.4 | 1980.2 | 1944.0 | 1862.6 | 1793.3 | 1746.7 |
| 40°   | 2352.3 | 2348.1 | 2281.8 | 2169.5 | 2087.3 | 2073.3 | 2061.3 | 1956.1 | 1896.3 | 1853.0 |
| 42.5° | 2371.7 | 2380.8 | 2328.1 | 2235.8 | 2157.4 | 2146.2 | 2174.4 | 2061.8 | 2012.0 | 1970.6 |
| 45°   | 2324.9 | 2350.9 | 2316.4 | 2253.6 | 2207.3 | 2201.3 | 2274.7 | 2177.4 | 2139.9 | 2102.1 |
| 47.5° | 2206.2 | 2250.3 | 2236.1 | 2227.3 | 2220.7 | 2246.8 | 2362.9 | 2300.2 | 2284.9 | 2252.0 |
| 50°   | 1966.7 | 2050.3 | 2075.2 | 2130.6 | 2194.2 | 2282.1 | 2443.2 | 2434.2 | 2454.2 | 2421.0 |
| 52.5° | 1552.7 | 1667.8 | 1812.5 | 1951.1 | 2112.5 | 2270.3 | 2531.5 | 2626.5 | 2710.9 | 2692.8 |
| 55°   | 1281.8 | 1333.5 | 1444.8 | 1699.1 | 1954.1 | 2220.7 | 2571.2 | 2781.9 | 2965.7 | 2949.6 |
| 57.5° | 1073.5 | 1119.8 | 1188.3 | 1400.7 | 1714.7 | 2108.1 | 2595.8 | 2876.7 | 3140.3 | 3138.6 |
| 60°   | 850.2  | 899.3  | 969.4  | 1119.8 | 1434.9 | 1913.6 | 2590.4 | 2984.6 | 3363.0 | 3376.7 |
| 62.5° | 598.1  | 652.1  | 729.9  | 870.2  | 1149.1 | 1661.5 | 2478.6 | 3062.7 | 3625.2 | 3662.5 |
| 65°   | 393.2  | 428.8  | 487.4  | 608.5  | 856.2  | 1337.4 | 2265.1 | 3072.9 | 3905.8 | 3968.8 |
| 67.5° | 275.6  | 289.3  | 323.9  | 389.6  | 564.4  | 1025.6 | 1925.1 | 2967.9 | 4093.0 | 4163.9 |
| 70°   | 215.1  | 221.9  | 239.5  | 265.8  | 354.6  | 689.6  | 1475.2 | 2695.0 | 4053.0 | 4126.9 |
| 72.5° | 185.8  | 192.3  | 198.9  | 202.2  | 237.8  | 425.8  | 999.3  | 2253.3 | 3676.2 | 3726.3 |
| 75°   | 168.5  | 170.2  | 175.6  | 174.5  | 181.4  | 276.2  | 576.8  | 1641.8 | 2900.5 | 2883.3 |
| 77.5° | 141.7  | 143.8  | 152.9  | 151.5  | 161.1  | 188.8  | 299.5  | 1059.5 | 1880.4 | 1763.2 |
| 80°   | 120.0  | 121.1  | 131.0  | 129.3  | 140.0  | 136.7  | 152.9  | 540.0  | 797.6  | 675.7  |
| 82.5° | 41.6   | 51.5   | 100.0  | 103.0  | 106.9  | 82.7   | 88.2   | 220.3  | 243.6  | 186.6  |
| 85°   | 20.3   | 21.6   | 51.0   | 72.3   | 72.1   | 41.6   | 43.0   | 78.6   | 76.7   | 60.3   |
| 87.5° | 3.3    | 4.1    | 6.0    | 28.2   | 22.5   | 11.0   | 14.8   | 15.3   | 15.9   | 13.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P945894  
 CATALOG NUMBER: GALN-SB1C-950-U-T2R

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 622.8  | 0°    | 622.8  | 622.8  | 622.8 | 622.8 | 622.8 | 622.8 | 622.8 | 622.8 | 622.8 | 622.8 |
| 645.0  | 2.5°  | 629.6  | 615.9  | 587.2 | 560.6 | 539.8 | 519.8 | 508.5 | 498.9 | 493.5 | 492.4 |
| 675.1  | 5°    | 646.6  | 618.4  | 566.1 | 522.0 | 493.2 | 471.8 | 460.6 | 453.5 | 449.9 | 447.7 |
| 715.7  | 7.5°  | 671.0  | 629.6  | 555.1 | 505.0 | 474.8 | 459.5 | 453.7 | 452.6 | 452.4 | 452.6 |
| 764.7  | 10°   | 704.7  | 648.0  | 554.0 | 500.9 | 475.7 | 467.2 | 466.9 | 467.2 | 468.3 | 468.5 |
| 818.2  | 12.5° | 741.2  | 666.9  | 558.4 | 504.4 | 486.1 | 481.4 | 480.6 | 480.3 | 481.1 | 481.7 |
| 872.1  | 15°   | 780.9  | 691.8  | 565.8 | 512.1 | 497.6 | 492.6 | 491.8 | 490.2 | 489.9 | 489.6 |
| 928.8  | 17.5° | 821.7  | 716.5  | 574.0 | 520.3 | 505.0 | 498.1 | 495.1 | 491.3 | 488.3 | 487.4 |
| 987.5  | 20°   | 863.1  | 740.9  | 579.8 | 524.4 | 505.5 | 495.9 | 489.9 | 483.3 | 478.1 | 475.1 |
| 1046.7 | 22.5° | 907.2  | 766.4  | 583.3 | 523.3 | 500.6 | 487.4 | 476.5 | 468.8 | 460.9 | 455.7 |
| 1106.4 | 25°   | 950.2  | 788.6  | 583.1 | 517.6 | 491.0 | 474.3 | 460.3 | 450.4 | 439.5 | 434.0 |
| 1168.0 | 27.5° | 991.6  | 808.6  | 576.2 | 507.4 | 477.3 | 458.7 | 442.0 | 430.2 | 419.5 | 414.3 |
| 1230.2 | 30°   | 1034.3 | 825.3  | 565.5 | 492.6 | 461.1 | 440.6 | 422.2 | 412.1 | 402.5 | 397.6 |
| 1296.0 | 32.5° | 1076.8 | 840.6  | 550.5 | 474.3 | 442.5 | 422.8 | 404.7 | 395.4 | 389.6 | 389.6 |
| 1366.7 | 35°   | 1121.7 | 851.3  | 530.5 | 452.9 | 422.8 | 403.9 | 389.6 | 384.1 | 383.6 | 380.3 |
| 1441.5 | 37.5° | 1169.1 | 858.2  | 506.1 | 431.0 | 403.3 | 385.5 | 381.1 | 374.6 | 369.1 | 361.9 |
| 1523.7 | 40°   | 1219.0 | 865.0  | 476.8 | 408.3 | 382.8 | 372.9 | 371.0 | 362.2 | 346.6 | 329.1 |
| 1616.9 | 42.5° | 1279.6 | 869.7  | 446.3 | 385.5 | 361.1 | 357.8 | 360.6 | 345.5 | 320.6 | 307.4 |
| 1729.2 | 45°   | 1349.7 | 877.3  | 418.4 | 363.0 | 338.9 | 338.9 | 350.4 | 330.7 | 310.2 | 301.9 |
| 1857.4 | 47.5° | 1440.7 | 895.1  | 392.4 | 338.4 | 318.4 | 323.9 | 328.0 | 312.9 | 301.4 | 291.3 |
| 2013.6 | 50°   | 1572.2 | 937.9  | 365.5 | 313.5 | 302.8 | 313.7 | 308.0 | 299.2 | 285.8 | 277.6 |
| 2261.8 | 52.5° | 1735.5 | 963.1  | 341.7 | 291.0 | 289.3 | 300.3 | 292.1 | 283.9 | 273.7 | 262.8 |
| 2450.1 | 55°   | 1846.7 | 967.8  | 321.7 | 274.5 | 280.3 | 279.2 | 276.2 | 268.8 | 263.3 | 248.8 |
| 2635.8 | 57.5° | 1971.1 | 977.1  | 305.2 | 264.7 | 274.5 | 262.5 | 261.4 | 255.1 | 248.0 | 238.1 |
| 2862.4 | 60°   | 2119.9 | 991.6  | 291.0 | 260.8 | 269.6 | 251.5 | 246.0 | 243.6 | 236.5 | 231.5 |
| 3135.1 | 62.5° | 2282.1 | 1004.7 | 276.5 | 261.4 | 263.9 | 240.8 | 232.6 | 231.8 | 227.4 | 225.8 |
| 3391.0 | 65°   | 2392.8 | 968.9  | 258.4 | 260.8 | 254.8 | 229.9 | 219.5 | 219.2 | 215.6 | 215.1 |
| 3501.9 | 67.5° | 2354.2 | 855.1  | 234.0 | 253.2 | 245.5 | 218.9 | 207.4 | 206.3 | 201.7 | 201.9 |
| 3386.0 | 70°   | 2160.7 | 692.9  | 200.3 | 234.3 | 234.0 | 209.1 | 194.8 | 191.2 | 184.9 | 186.0 |
| 2944.1 | 72.5° | 1798.0 | 513.5  | 155.1 | 202.8 | 215.6 | 200.0 | 180.3 | 174.5 | 166.6 | 167.7 |
| 2173.3 | 75°   | 1298.5 | 349.1  | 112.9 | 154.3 | 187.7 | 189.3 | 166.0 | 156.2 | 146.6 | 148.2 |
| 1209.7 | 77.5° | 664.4  | 197.8  | 83.0  | 106.3 | 147.4 | 172.1 | 153.2 | 140.0 | 137.8 | 153.2 |
| 348.8  | 80°   | 216.7  | 99.2   | 57.5  | 74.5  | 96.7  | 140.8 | 134.3 | 119.2 | 118.6 | 122.2 |
| 73.2   | 82.5° | 64.7   | 41.9   | 37.0  | 49.0  | 53.4  | 108.0 | 115.9 | 90.1  | 77.5  | 81.7  |
| 24.4   | 85°   | 22.2   | 20.3   | 21.1  | 24.4  | 25.5  | 63.3  | 81.1  | 59.7  | 56.4  | 62.2  |
| 5.5    | 87.5° | 5.2    | 7.1    | 6.0   | 5.5   | 5.5   | 15.3  | 31.5  | 24.9  | 34.5  | 23.0  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END O

| <u>180°</u> |
|-------------|
| 622.8       |
| 492.4       |
| 447.4       |
| 453.5       |
| 468.8       |
| 482.0       |
| 489.4       |
| 488.3       |
| 476.2       |
| 455.9       |
| 434.0       |
| 414.0       |
| 397.3       |
| 389.9       |
| 379.5       |
| 360.9       |
| 326.6       |
| 307.7       |
| 303.3       |
| 291.0       |
| 276.7       |
| 260.6       |
| 249.1       |
| 234.8       |
| 232.9       |
| 225.8       |
| 214.8       |
| 201.9       |
| 187.1       |
| 167.4       |
| 148.8       |
| 151.0       |
| 104.9       |
| 84.4        |
| 61.4        |
| 22.2        |
| 0.0         |

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