

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: P948435

Luminaire Tested: **GALN-SB3C-727-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948435  
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-SB3C-727-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21228 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 149.1  
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



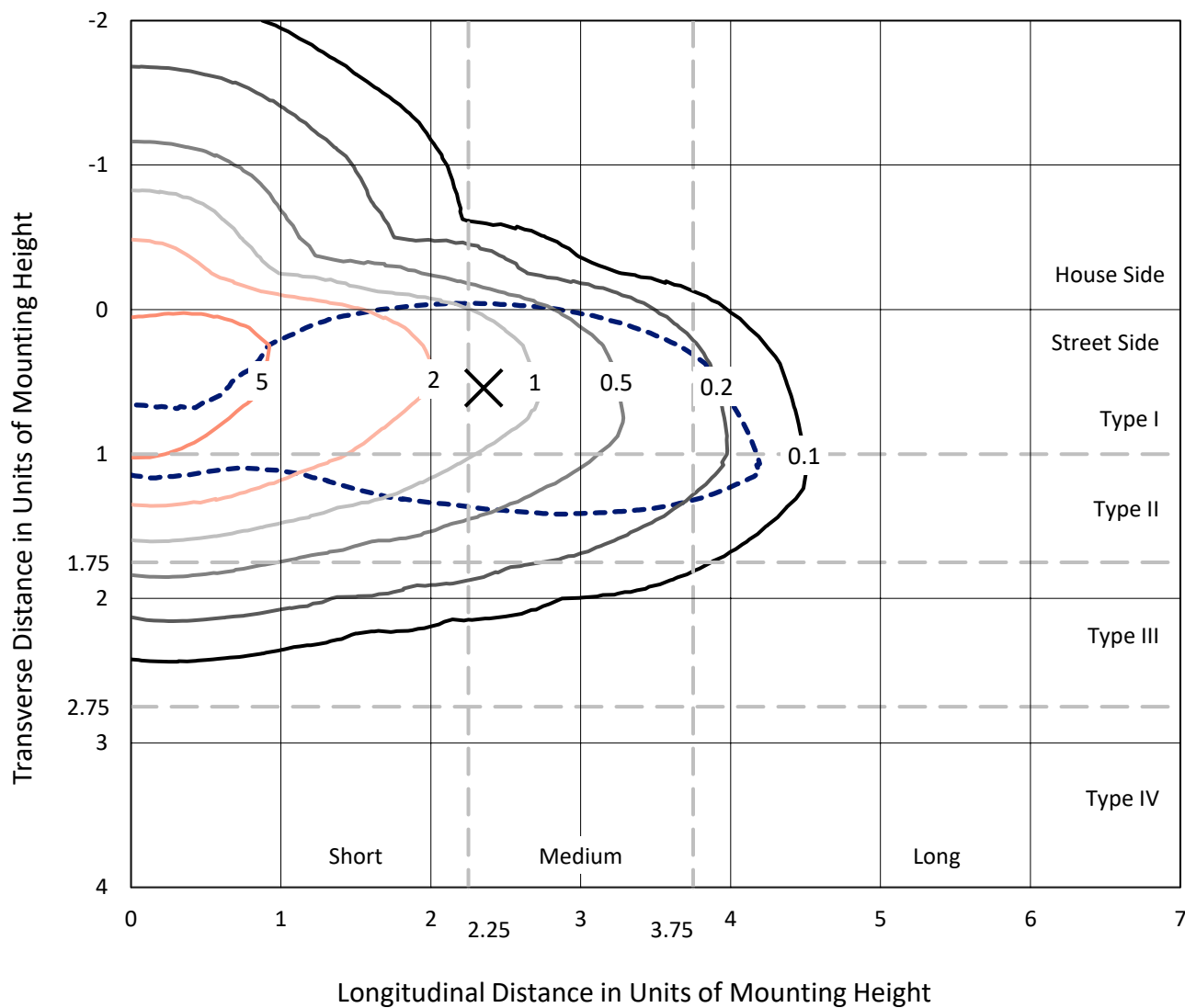
REPORT NUMBER: P948435

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## Iso-Footcandle Lines of Horizontal Illumination

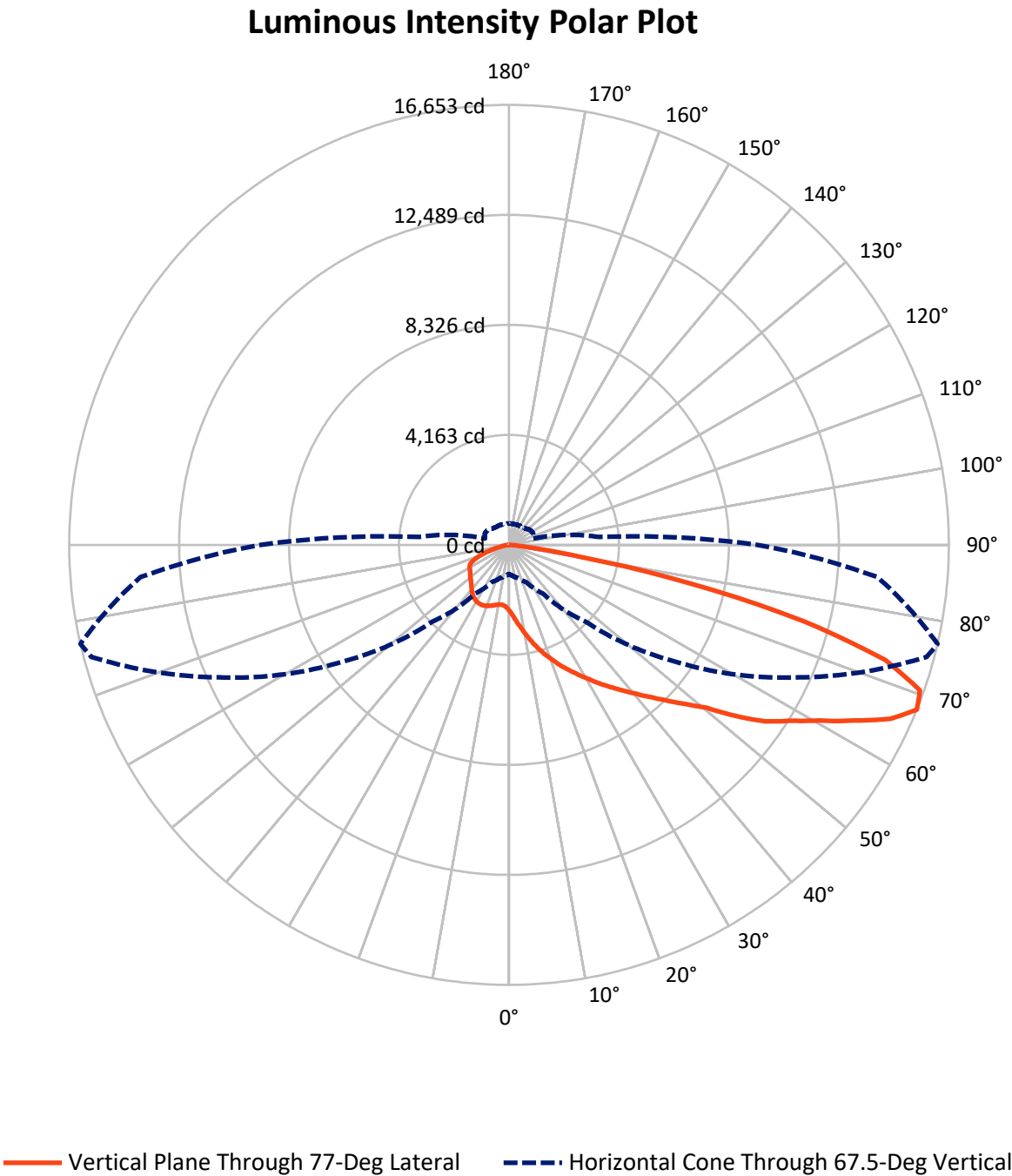
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB3C-727-U-T2R



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4015.5   | 0.0    | 4015.5  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 17212.5  | 0.0    | 17212.5 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 21228.0  | 0.0    | 21228.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 267.0   | 1.3       |
| 10°-20°   | 959.1   | 4.5       |
| 20°-30°   | 1810.9  | 8.5       |
| 30°-40°   | 2917.3  | 13.7      |
| 40°-50°   | 3990.4  | 18.8      |
| 50°-60°   | 4501.2  | 21.2      |
| 60°-70°   | 4201.3  | 19.8      |
| 70°-80°   | 2303.0  | 10.8      |
| 80°-90°   | 277.8   | 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°    | 21228.0 | 100.0     |
| 0°-180°   | 21228.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P948435

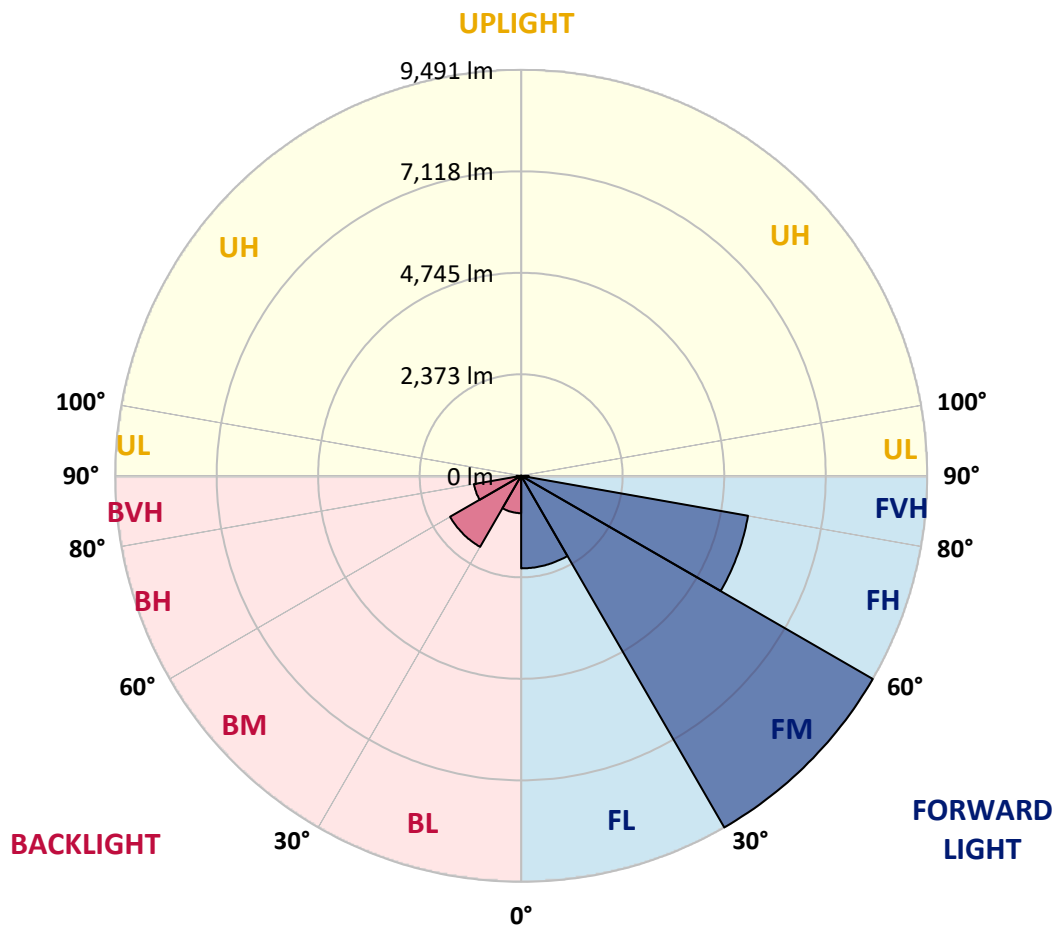
CATALOG NUMBER: GALN-SB3C-727-U-T2R

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2163.9 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 9490.8 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 5384.0 | 25.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 173.7  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 873.1  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1918.1 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1120.3 | 5.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 104.1  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



REPORT NUMBER: P948435

CATALOG NUMBER: GALN-SB3C-727-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7  | 2490.7  | 2490.7  | 2490.7  | 2490.7  |
| 2.5°  | 3118.6 | 3140.5 | 3113.1 | 3113.1 | 3021.1 | 2972.8 | 2880.8  | 2810.7  | 2684.7  | 2662.7  | 2579.5  |
| 5°    | 3686.2 | 3713.6 | 3675.2 | 3658.8 | 3550.3 | 3450.6 | 3296.1  | 3143.8  | 2919.2  | 2896.1  | 2700.0  |
| 7.5°  | 4125.6 | 4160.7 | 4126.7 | 4109.2 | 4012.7 | 3901.0 | 3720.2  | 3507.6  | 3190.9  | 3146.0  | 2862.2  |
| 10°   | 4483.9 | 4489.4 | 4478.4 | 4485.0 | 4409.4 | 4317.4 | 4132.2  | 3884.5  | 3489.0  | 3427.6  | 3058.3  |
| 12.5° | 4686.6 | 4711.8 | 4733.8 | 4773.2 | 4760.1 | 4703.1 | 4536.5  | 4240.7  | 3804.5  | 3725.6  | 3272.0  |
| 15°   | 4782.0 | 4825.8 | 4875.1 | 4966.1 | 5039.5 | 5053.7 | 4926.6  | 4623.1  | 4125.6  | 4030.3  | 3487.9  |
| 17.5° | 4815.9 | 4857.6 | 4935.4 | 5066.9 | 5224.7 | 5331.0 | 5274.0  | 4994.6  | 4443.4  | 4333.8  | 3714.7  |
| 20°   | 4988.0 | 5000.0 | 5047.2 | 5172.1 | 5343.0 | 5519.4 | 5562.2  | 5351.8  | 4757.9  | 4634.0  | 3949.2  |
| 22.5° | 5356.2 | 5332.1 | 5345.2 | 5402.2 | 5524.9 | 5695.9 | 5793.4  | 5667.4  | 5081.1  | 4938.7  | 4185.9  |
| 25°   | 5964.3 | 5894.2 | 5824.1 | 5758.3 | 5820.8 | 5917.2 | 6027.9  | 5982.9  | 5419.7  | 5238.9  | 4424.8  |
| 27.5° | 6732.5 | 6647.0 | 6492.5 | 6276.6 | 6201.0 | 6235.0 | 6284.3  | 6275.5  | 5733.1  | 5550.1  | 4671.3  |
| 30°   | 7488.5 | 7388.8 | 7204.7 | 6892.4 | 6693.0 | 6603.2 | 6565.9  | 6540.7  | 6073.9  | 5878.9  | 4920.0  |
| 32.5° | 8092.3 | 8013.4 | 7832.6 | 7483.1 | 7193.8 | 7040.4 | 6916.6  | 6826.7  | 6430.0  | 6235.0  | 5183.0  |
| 35°   | 8620.5 | 8547.1 | 8340.0 | 7958.6 | 7644.1 | 7480.9 | 7318.7  | 7126.9  | 6800.4  | 6603.2  | 5465.7  |
| 37.5° | 9102.6 | 9029.2 | 8745.4 | 8348.7 | 8032.1 | 7919.2 | 7774.5  | 7449.1  | 7171.9  | 6985.6  | 5764.9  |
| 40°   | 9407.3 | 9390.8 | 9125.6 | 8676.4 | 8347.6 | 8291.8 | 8243.5  | 7822.8  | 7583.9  | 7410.7  | 6093.6  |
| 42.5° | 9485.1 | 9521.2 | 9310.8 | 8941.6 | 8628.2 | 8583.2 | 8696.1  | 8245.7  | 8046.3  | 7880.8  | 6466.2  |
| 45°   | 9297.7 | 9401.8 | 9263.7 | 9012.8 | 8827.6 | 8803.5 | 9097.2  | 8708.1  | 8558.0  | 8406.8  | 6915.5  |
| 47.5° | 8823.2 | 8999.6 | 8942.6 | 8907.6 | 8881.3 | 8985.4 | 9450.0  | 9199.1  | 9137.7  | 9006.2  | 7428.3  |
| 50°   | 7865.5 | 8199.7 | 8299.4 | 8520.8 | 8775.0 | 9126.7 | 9771.1  | 9734.9  | 9814.9  | 9682.3  | 8052.9  |
| 52.5° | 6209.8 | 6670.0 | 7248.6 | 7803.0 | 8448.5 | 9079.6 | 10123.9 | 10504.1 | 10841.6 | 10769.3 | 9045.6  |
| 55°   | 5126.1 | 5333.2 | 5778.0 | 6794.9 | 7815.1 | 8881.3 | 10282.8 | 11125.4 | 11860.7 | 11796.1 | 9798.4  |
| 57.5° | 4293.3 | 4478.4 | 4752.4 | 5601.6 | 6857.4 | 8430.9 | 10381.4 | 11504.6 | 12558.7 | 12552.1 | 10541.4 |
| 60°   | 3400.2 | 3596.3 | 3876.9 | 4478.4 | 5738.6 | 7652.9 | 10359.5 | 11936.3 | 13449.6 | 13504.4 | 11447.6 |
| 62.5° | 2392.1 | 2608.0 | 2919.2 | 3480.2 | 4595.7 | 6644.8 | 9912.4  | 12248.6 | 14498.2 | 14647.3 | 12537.9 |
| 65°   | 1572.4 | 1714.9 | 1949.4 | 2433.7 | 3424.3 | 5348.5 | 9058.8  | 12289.2 | 15620.3 | 15872.3 | 13561.4 |
| 67.5° | 1102.4 | 1157.1 | 1295.2 | 1558.2 | 2257.3 | 4101.5 | 7698.9  | 11869.5 | 16368.7 | 16652.5 | 14005.1 |
| 70°   | 860.2  | 887.6  | 957.7  | 1062.9 | 1417.9 | 2758.1 | 5899.7  | 10778.1 | 16208.8 | 16504.6 | 13541.6 |
| 72.5° | 742.9  | 769.2  | 795.5  | 808.7  | 951.1  | 1702.8 | 3996.3  | 9011.7  | 14702.1 | 14902.6 | 11774.1 |
| 75°   | 673.9  | 680.5  | 702.4  | 698.0  | 725.4  | 1104.5 | 2306.6  | 6565.9  | 11599.9 | 11530.9 | 8691.7  |
| 77.5° | 566.5  | 575.3  | 611.4  | 606.0  | 644.3  | 755.0  | 1197.7  | 4237.4  | 7520.3  | 7051.3  | 4837.9  |
| 80°   | 480.0  | 484.3  | 523.8  | 517.2  | 559.9  | 546.8  | 611.4   | 2159.8  | 3189.8  | 2702.2  | 1394.9  |
| 82.5° | 166.6  | 206.0  | 400.0  | 412.0  | 427.4  | 330.9  | 352.8   | 881.0   | 974.1   | 746.2   | 292.6   |
| 85°   | 81.1   | 86.6   | 203.8  | 289.3  | 288.2  | 166.6  | 172.0   | 314.5   | 306.8   | 241.1   | 97.5    |
| 87.5° | 13.1   | 16.4   | 24.1   | 112.9  | 89.9   | 43.8   | 59.2    | 61.4    | 63.6    | 54.8    | 21.9    |
| 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: P948435

CATALOG NUMBER: GALN-SB3C-727-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 | 2490.7 |
| 2.5°  | 2518.1 | 2463.3 | 2348.3 | 2242.0 | 2158.7 | 2078.7 | 2033.8 | 1995.4 | 1973.5 | 1969.1 | 1969.1 |
| 5°    | 2586.0 | 2473.2 | 2263.9 | 2087.5 | 1972.4 | 1886.9 | 1842.0 | 1813.5 | 1799.3 | 1790.5 | 1789.4 |
| 7.5°  | 2683.6 | 2518.1 | 2220.0 | 2019.5 | 1899.0 | 1837.6 | 1814.6 | 1810.2 | 1809.1 | 1810.2 | 1813.5 |
| 10°   | 2818.3 | 2591.5 | 2215.7 | 2003.1 | 1902.3 | 1868.3 | 1867.2 | 1868.3 | 1872.7 | 1873.8 | 1874.9 |
| 12.5° | 2964.1 | 2667.1 | 2233.2 | 2017.3 | 1943.9 | 1925.3 | 1922.0 | 1920.9 | 1924.2 | 1926.4 | 1927.5 |
| 15°   | 3123.0 | 2766.8 | 2262.8 | 2048.0 | 1989.9 | 1970.2 | 1966.9 | 1960.3 | 1959.3 | 1958.2 | 1957.1 |
| 17.5° | 3286.2 | 2865.5 | 2295.7 | 2080.9 | 2019.5 | 1992.1 | 1980.1 | 1964.7 | 1952.7 | 1949.4 | 1952.7 |
| 20°   | 3451.7 | 2963.0 | 2318.7 | 2097.3 | 2021.7 | 1983.4 | 1959.3 | 1933.0 | 1912.1 | 1900.1 | 1904.5 |
| 22.5° | 3628.1 | 3064.9 | 2332.9 | 2092.9 | 2002.0 | 1949.4 | 1905.6 | 1874.9 | 1843.1 | 1822.3 | 1823.4 |
| 25°   | 3800.2 | 3153.6 | 2331.8 | 2069.9 | 1963.6 | 1896.8 | 1840.9 | 1801.5 | 1757.6 | 1735.7 | 1735.7 |
| 27.5° | 3965.6 | 3233.6 | 2304.4 | 2029.4 | 1908.8 | 1834.3 | 1767.5 | 1720.4 | 1677.6 | 1656.8 | 1655.7 |
| 30°   | 4136.6 | 3300.5 | 2261.7 | 1970.2 | 1844.2 | 1762.0 | 1688.6 | 1648.1 | 1609.7 | 1590.0 | 1588.9 |
| 32.5° | 4306.4 | 3361.8 | 2201.4 | 1896.8 | 1769.7 | 1690.8 | 1618.5 | 1581.2 | 1558.2 | 1558.2 | 1559.3 |
| 35°   | 4486.1 | 3404.6 | 2121.4 | 1811.3 | 1690.8 | 1615.2 | 1558.2 | 1536.3 | 1534.1 | 1520.9 | 1517.7 |
| 37.5° | 4675.7 | 3432.0 | 2023.9 | 1723.7 | 1613.0 | 1541.8 | 1524.2 | 1497.9 | 1476.0 | 1447.5 | 1443.1 |
| 40°   | 4875.1 | 3459.4 | 1906.7 | 1632.7 | 1530.8 | 1491.4 | 1483.7 | 1448.6 | 1386.2 | 1316.0 | 1306.2 |
| 42.5° | 5117.3 | 3478.0 | 1785.0 | 1541.8 | 1444.2 | 1431.1 | 1442.0 | 1381.8 | 1282.1 | 1229.5 | 1230.6 |
| 45°   | 5397.8 | 3508.7 | 1673.3 | 1451.9 | 1355.5 | 1355.5 | 1401.5 | 1322.6 | 1240.4 | 1207.5 | 1213.0 |
| 47.5° | 5761.6 | 3579.9 | 1569.2 | 1353.3 | 1273.3 | 1295.2 | 1311.6 | 1251.4 | 1205.4 | 1164.8 | 1163.7 |
| 50°   | 6287.6 | 3750.8 | 1461.8 | 1253.6 | 1210.8 | 1254.7 | 1231.7 | 1196.6 | 1142.9 | 1110.0 | 1106.7 |
| 52.5° | 6940.7 | 3851.7 | 1366.4 | 1163.7 | 1157.1 | 1201.0 | 1168.1 | 1135.2 | 1094.7 | 1050.9 | 1042.1 |
| 55°   | 7385.5 | 3870.3 | 1286.4 | 1098.0 | 1121.0 | 1116.6 | 1104.5 | 1075.0 | 1053.0 | 995.0  | 996.1  |
| 57.5° | 7883.0 | 3907.5 | 1220.7 | 1058.5 | 1098.0 | 1049.8 | 1045.4 | 1020.2 | 991.7  | 952.2  | 939.1  |
| 60°   | 8478.0 | 3965.6 | 1163.7 | 1043.2 | 1078.2 | 1005.9 | 984.0  | 974.1  | 945.7  | 925.9  | 931.4  |
| 62.5° | 9126.7 | 4018.2 | 1105.6 | 1045.4 | 1055.2 | 963.2  | 930.3  | 927.0  | 909.5  | 902.9  | 902.9  |
| 65°   | 9569.4 | 3874.7 | 1033.3 | 1043.2 | 1019.1 | 919.4  | 877.7  | 876.6  | 862.4  | 860.2  | 859.1  |
| 67.5° | 9414.9 | 3419.9 | 935.8  | 1012.5 | 981.8  | 875.5  | 829.5  | 825.1  | 806.5  | 807.6  | 807.6  |
| 70°   | 8641.3 | 2771.2 | 801.0  | 936.9  | 935.8  | 836.1  | 779.1  | 764.9  | 739.7  | 744.0  | 748.4  |
| 72.5° | 7190.5 | 2053.5 | 620.2  | 810.9  | 862.4  | 799.9  | 721.0  | 698.0  | 666.2  | 670.6  | 669.5  |
| 75°   | 5192.9 | 1396.0 | 451.5  | 616.9  | 750.6  | 757.2  | 664.0  | 624.6  | 586.2  | 592.8  | 595.0  |
| 77.5° | 2657.3 | 791.2  | 332.0  | 425.2  | 589.5  | 688.1  | 612.5  | 559.9  | 551.2  | 612.5  | 603.8  |
| 80°   | 866.8  | 396.7  | 230.1  | 298.1  | 386.8  | 563.2  | 536.9  | 476.7  | 474.5  | 488.7  | 419.7  |
| 82.5° | 258.6  | 167.7  | 147.9  | 196.1  | 213.7  | 431.7  | 463.5  | 360.5  | 310.1  | 326.5  | 337.5  |
| 85°   | 88.8   | 81.1   | 84.4   | 97.5   | 101.9  | 253.1  | 324.4  | 238.9  | 225.7  | 248.7  | 245.5  |
| 87.5° | 20.8   | 28.5   | 24.1   | 21.9   | 21.9   | 61.4   | 126.0  | 99.7   | 138.1  | 92.0   | 88.8   |
| 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)