

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: P943319

Luminaire Tested: **GALN-SB7D-727-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P943319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7D-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 66344 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
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

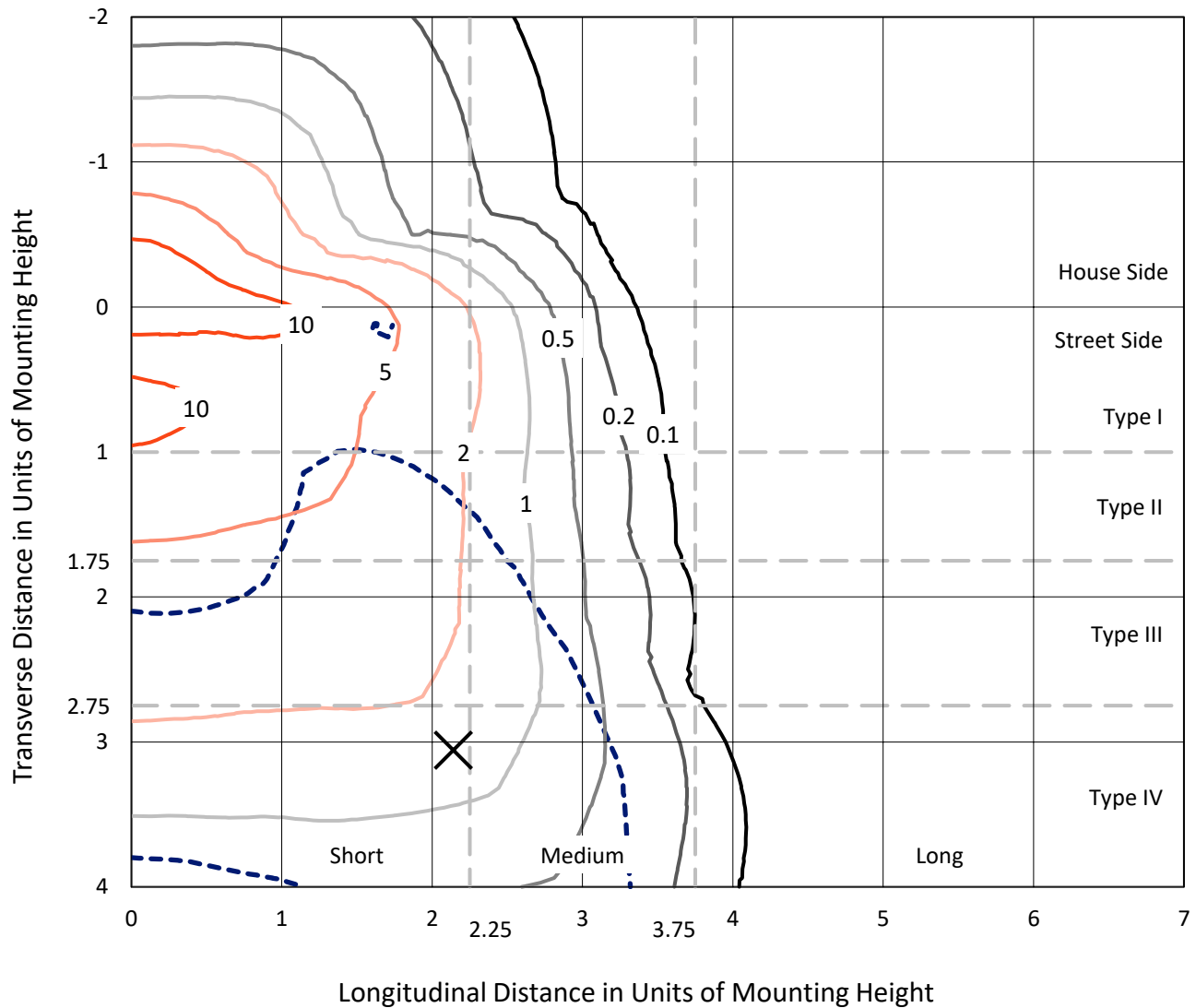


REPORT NUMBER: P943319

CATALOG NUMBER: GALN-SB7D-727-U-T4FT

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

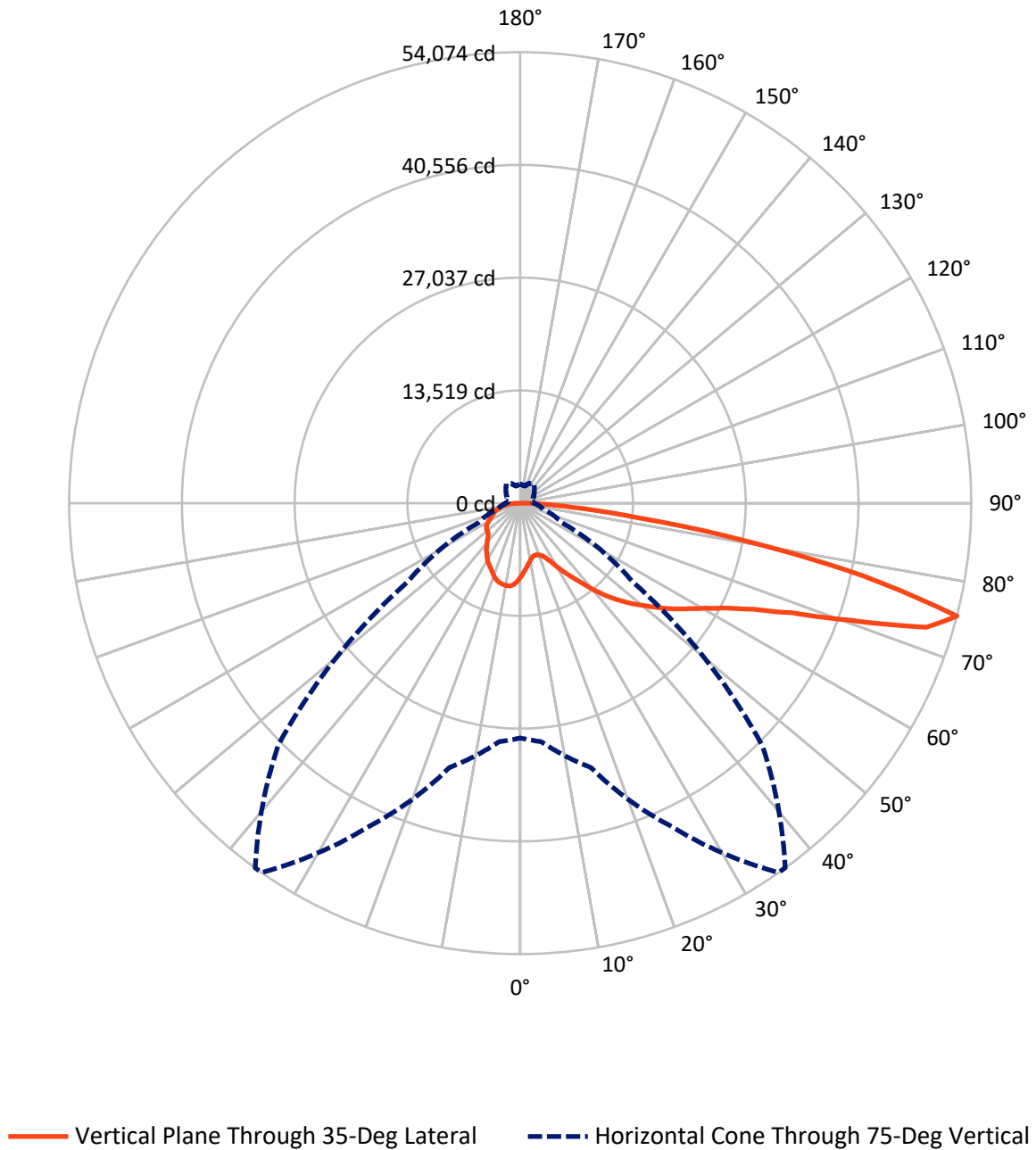


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
Type IV - Short - N/A

REPORT NUMBER: P943319

CATALOG NUMBER: GALN-SB7D-727-U-T4FT

## Luminous Intensity Polar Plot



REPORT NUMBER: P943319

CATALOG NUMBER: GALN-SB7D-727-U-T4FT

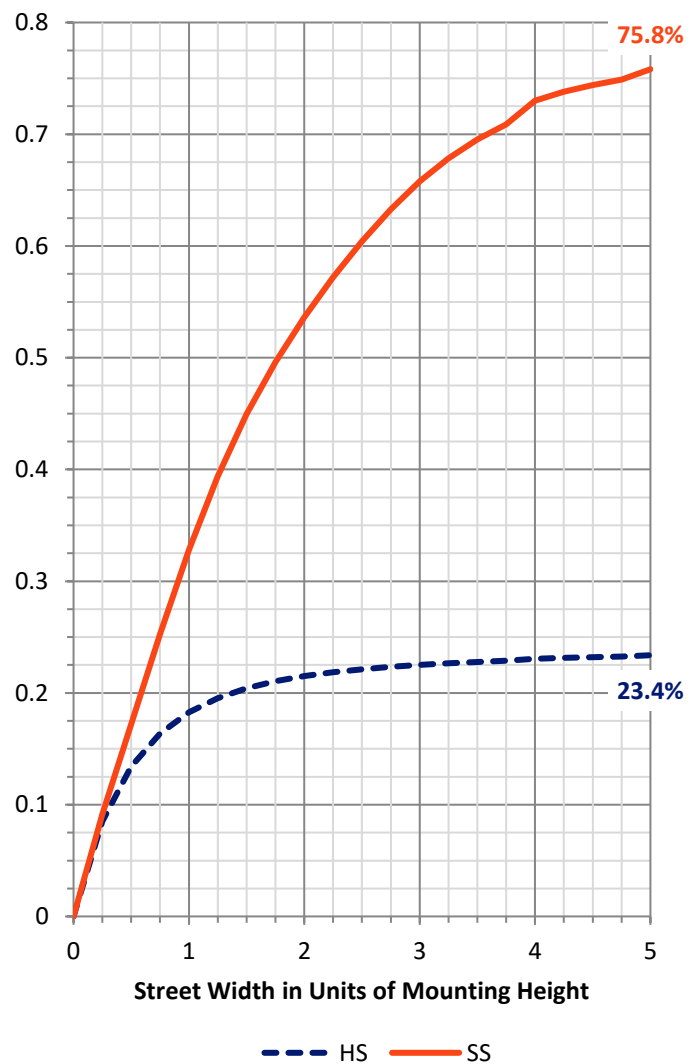
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15788.2  | 0.0    | 15788.2 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 50555.8  | 0.0    | 50555.8 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 66344.0  | 0.0    | 66344.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 837.0   | 1.3       |
| 10°-20°   | 2414.4  | 3.6       |
| 20°-30°   | 4054.4  | 6.1       |
| 30°-40°   | 6301.1  | 9.5       |
| 40°-50°   | 9352.5  | 14.1      |
| 50°-60°   | 12911.7 | 19.5      |
| 60°-70°   | 15664.9 | 23.6      |
| 70°-80°   | 12945.8 | 19.5      |
| 80°-90°   | 1862.0  | 2.8       |
| 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°    | 66344.0 | 100.0     |
| 0°-180°   | 66344.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P943319

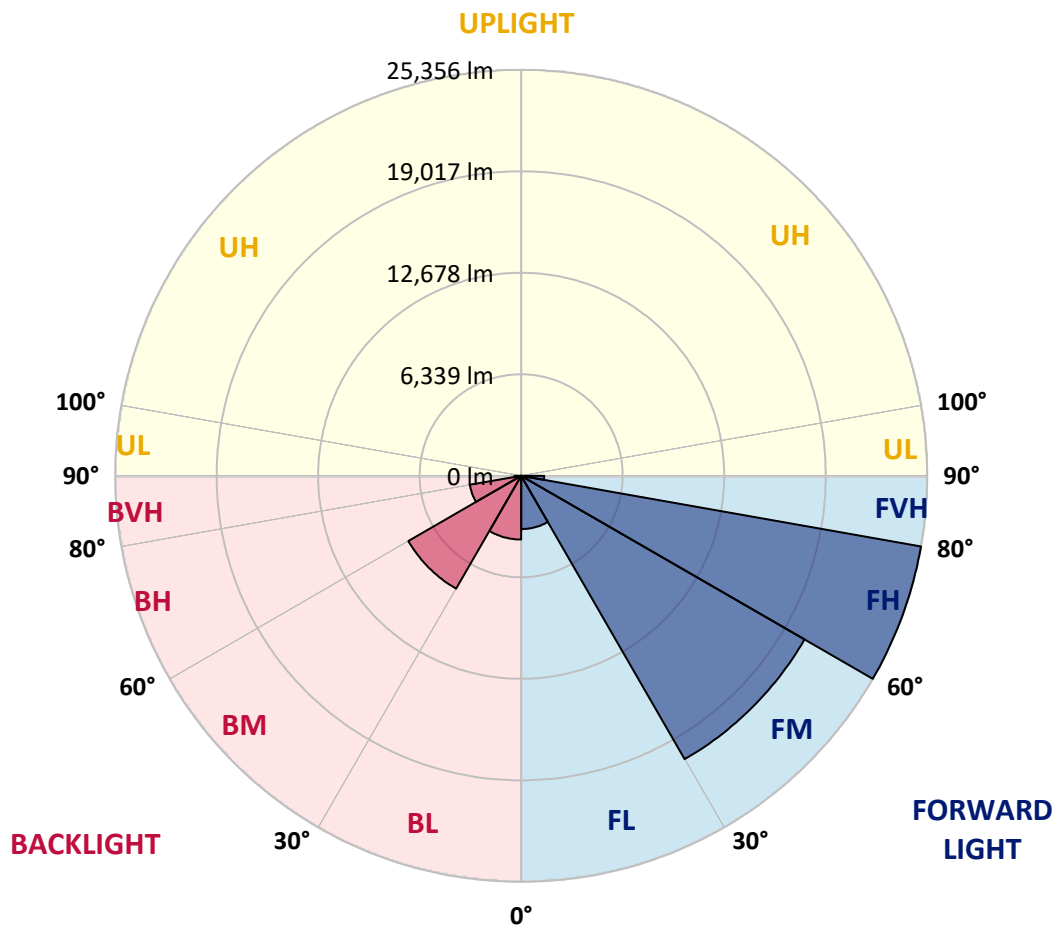
CATALOG NUMBER: GALN-SB7D-727-U-T4FT

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3327.0  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 20430.4 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 25355.7 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 1442.7  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 3978.8  | 6.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 8135.0  | 12.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3255.0  | 4.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 419.3   | 0.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



REPORT NUMBER: P943319

CATALOG NUMBER: GALN-SB7D-727-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  |
| 2.5°  | 8152.2  | 8202.4  | 8223.9  | 8213.1  | 8266.9  | 8259.8  | 8335.1  | 8428.3  | 8557.5  | 8683.0  | 8865.9  |
| 5°    | 7524.5  | 7578.3  | 7625.0  | 7668.0  | 7772.0  | 7804.3  | 7922.6  | 8102.0  | 8338.7  | 8579.0  | 8880.2  |
| 7.5°  | 6939.9  | 6986.6  | 7058.3  | 7137.2  | 7312.9  | 7345.2  | 7542.5  | 7822.2  | 8152.2  | 8503.7  | 8919.7  |
| 10°   | 6462.9  | 6509.5  | 6584.9  | 6674.5  | 6893.3  | 6932.8  | 7183.8  | 7556.8  | 7987.2  | 8431.9  | 8962.7  |
| 12.5° | 6258.5  | 6272.8  | 6315.9  | 6405.5  | 6595.6  | 6620.7  | 6896.9  | 7323.7  | 7825.8  | 8378.1  | 9027.3  |
| 15°   | 6247.7  | 6276.4  | 6280.0  | 6326.6  | 6484.4  | 6495.2  | 6749.8  | 7173.1  | 7725.4  | 8367.4  | 9124.1  |
| 17.5° | 6355.3  | 6376.8  | 6344.6  | 6373.3  | 6506.0  | 6523.9  | 6724.7  | 7101.3  | 7693.1  | 8414.0  | 9289.1  |
| 20°   | 6642.2  | 6660.2  | 6563.3  | 6523.9  | 6620.7  | 6635.1  | 6832.3  | 7147.9  | 7725.4  | 8510.8  | 9515.1  |
| 22.5° | 7252.0  | 7262.7  | 7026.0  | 6864.6  | 6871.8  | 6879.0  | 7051.1  | 7338.0  | 7850.9  | 8686.6  | 9802.0  |
| 25°   | 8202.4  | 8195.2  | 7818.6  | 7506.6  | 7327.3  | 7287.8  | 7402.6  | 7646.5  | 8062.5  | 8919.7  | 10171.4 |
| 27.5° | 9314.2  | 9260.4  | 8883.8  | 8417.6  | 8026.6  | 7969.3  | 7944.2  | 8048.2  | 8363.8  | 9228.1  | 10623.3 |
| 30°   | 10569.5 | 10519.3 | 10114.0 | 9504.3  | 8962.7  | 8869.5  | 8632.8  | 8579.0  | 8812.1  | 9647.8  | 11250.9 |
| 32.5° | 11946.7 | 11914.4 | 11430.3 | 10691.4 | 9967.0  | 9859.4  | 9461.3  | 9317.8  | 9500.7  | 10282.6 | 12126.0 |
| 35°   | 13101.6 | 13072.9 | 12671.2 | 11910.9 | 11025.0 | 10892.3 | 10487.0 | 10325.6 | 10418.9 | 11096.7 | 13270.1 |
| 37.5° | 14145.3 | 14130.9 | 13786.6 | 13187.7 | 12273.1 | 12111.7 | 11656.2 | 11602.4 | 11584.5 | 12169.1 | 14658.1 |
| 40°   | 15113.6 | 15077.8 | 14719.1 | 14403.5 | 13725.6 | 13578.6 | 13176.9 | 13130.3 | 12994.0 | 13488.9 | 16229.0 |
| 42.5° | 16186.0 | 16092.7 | 15572.7 | 15425.6 | 15242.7 | 15120.8 | 14880.5 | 14887.7 | 14586.4 | 14977.3 | 17893.2 |
| 45°   | 17061.1 | 17007.3 | 16472.9 | 16386.8 | 16584.1 | 16533.9 | 16741.9 | 16795.7 | 16211.1 | 16537.5 | 19621.9 |
| 47.5° | 18000.8 | 17950.6 | 17498.7 | 17437.7 | 17972.1 | 17986.4 | 18721.7 | 18739.6 | 17796.3 | 18158.6 | 21354.2 |
| 50°   | 19159.2 | 19087.5 | 18639.2 | 18714.5 | 19313.4 | 19367.2 | 20712.2 | 20590.2 | 19256.1 | 19804.8 | 23072.1 |
| 52.5° | 19923.2 | 19966.2 | 19869.4 | 19991.3 | 20809.0 | 20859.2 | 22670.4 | 22358.4 | 20701.4 | 21429.5 | 24757.8 |
| 55°   | 20486.2 | 20572.3 | 20873.6 | 21153.3 | 22387.1 | 22437.3 | 24517.5 | 24040.5 | 21899.3 | 22935.8 | 26343.0 |
| 57.5° | 21210.7 | 21088.8 | 21651.9 | 22197.0 | 23886.3 | 24019.0 | 26314.3 | 25661.6 | 22960.9 | 24234.2 | 27429.8 |
| 60°   | 22250.8 | 22164.7 | 22602.3 | 23409.3 | 25564.8 | 25776.4 | 28215.2 | 27121.3 | 23739.2 | 25263.5 | 27641.4 |
| 62.5° | 24359.7 | 24144.5 | 24212.6 | 24926.4 | 27680.8 | 27960.6 | 30359.9 | 28394.5 | 24126.6 | 25665.2 | 26508.0 |
| 65°   | 27512.2 | 27142.8 | 26798.5 | 27293.5 | 30661.2 | 30937.4 | 32780.8 | 29395.2 | 23983.1 | 24886.9 | 23498.9 |
| 67.5° | 31482.5 | 31116.7 | 30693.5 | 31159.7 | 35051.1 | 35269.9 | 35768.4 | 29958.3 | 22853.3 | 21888.6 | 18180.1 |
| 70°   | 34757.0 | 34620.7 | 35126.4 | 37045.2 | 42062.8 | 42070.0 | 39598.8 | 29492.0 | 19758.2 | 15518.9 | 10519.3 |
| 72.5° | 34323.1 | 34240.6 | 36905.4 | 42837.5 | 50900.0 | 50709.9 | 43224.8 | 25962.9 | 13309.6 | 7000.9  | 3941.6  |
| 75°   | 28157.8 | 28692.2 | 32820.3 | 42733.5 | 54074.1 | 54048.9 | 41004.8 | 16505.2 | 5505.3  | 2901.5  | 2037.1  |
| 77.5° | 15099.3 | 15945.7 | 21307.6 | 31550.7 | 42213.4 | 42848.2 | 28828.5 | 5774.3  | 2363.5  | 1857.8  | 1409.5  |
| 80°   | 4924.3  | 5663.1  | 8492.9  | 16064.1 | 27429.8 | 27311.4 | 12355.6 | 2266.7  | 1617.5  | 1316.3  | 975.5   |
| 82.5° | 2090.9  | 2177.0  | 3794.5  | 7585.5  | 14077.1 | 13858.3 | 3934.4  | 1301.9  | 1136.9  | 900.2   | 602.5   |
| 85°   | 817.7   | 914.6   | 1674.9  | 3507.6  | 6097.1  | 5964.4  | 1420.3  | 645.6   | 728.1   | 588.2   | 358.7   |
| 87.5° | 269.0   | 326.4   | 598.9   | 1201.5  | 1897.3  | 1829.1  | 347.9   | 222.4   | 315.6   | 269.0   | 129.1   |
| 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: P943319

CATALOG NUMBER: GALN-SB7D-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°   | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|
| 0°    | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8  | 8840.8 | 8840.8  | 8840.8  | 8840.8  |
| 2.5°  | 8916.1  | 8973.5  | 9041.6  | 9142.1  | 9228.1  | 9299.9  | 9375.2  | 9421.8 | 9439.7  | 9493.5  | 9489.9  |
| 5°    | 8980.7  | 9106.2  | 9274.8  | 9439.7  | 9601.1  | 9698.0  | 9784.0  | 9827.1 | 9866.5  | 9895.2  | 9902.4  |
| 7.5°  | 9088.3  | 9249.7  | 9515.1  | 9730.2  | 9866.5  | 9945.4  | 10002.8 | 9988.5 | 10002.8 | 10010.0 | 10020.8 |
| 10°   | 9181.5  | 9407.5  | 9723.1  | 9927.5  | 10031.5 | 10035.1 | 10020.8 | 9970.5 | 9945.4  | 9949.0  | 9956.2  |
| 12.5° | 9292.7  | 9543.7  | 9884.5  | 10056.6 | 10085.3 | 10006.4 | 9945.4  | 9859.4 | 9827.1  | 9812.7  | 9805.6  |
| 15°   | 9443.3  | 9730.2  | 10060.2 | 10124.8 | 10053.0 | 9952.6  | 9848.6  | 9708.7 | 9637.0  | 9579.6  | 9597.5  |
| 17.5° | 9626.2  | 9941.9  | 10196.5 | 10149.9 | 9995.6  | 9830.7  | 9662.1  | 9450.5 | 9303.4  | 9242.5  | 9246.1  |
| 20°   | 9880.9  | 10164.2 | 10300.5 | 10096.1 | 9862.9  | 9611.9  | 9325.0  | 9066.7 | 8930.4  | 8869.5  | 8862.3  |
| 22.5° | 10189.3 | 10461.9 | 10400.9 | 10002.8 | 9672.9  | 9271.2  | 8912.5  | 8722.4 | 8654.3  | 8611.2  | 8618.4  |
| 25°   | 10558.7 | 10791.9 | 10472.7 | 9866.5  | 9360.8  | 8819.3  | 8543.1  | 8482.1 | 8449.9  | 8417.6  | 8417.6  |
| 27.5° | 11039.3 | 11164.9 | 10526.5 | 9665.7  | 8873.1  | 8338.7  | 8238.3  | 8249.0 | 8238.3  | 8184.5  | 8195.2  |
| 30°   | 11674.1 | 11649.0 | 10576.7 | 9339.3  | 8313.6  | 7904.7  | 7911.9  | 7958.5 | 7965.7  | 7929.8  | 7947.7  |
| 32.5° | 12509.8 | 12255.2 | 10601.8 | 8916.1  | 7779.2  | 7524.5  | 7531.7  | 7581.9 | 7617.8  | 7556.8  | 7585.5  |
| 35°   | 13521.2 | 12961.7 | 10562.3 | 8385.3  | 7366.7  | 7162.3  | 7108.5  | 7122.8 | 7133.6  | 7076.2  | 7115.7  |
| 37.5° | 14701.2 | 13754.3 | 10386.6 | 7797.1  | 7026.0  | 6807.2  | 6692.5  | 6595.6 | 6538.2  | 6484.4  | 6520.3  |
| 40°   | 15995.9 | 14618.7 | 10063.8 | 7223.3  | 6645.8  | 6430.6  | 6258.5  | 6075.6 | 5881.9  | 5810.2  | 5842.5  |
| 42.5° | 17351.6 | 15508.1 | 9672.9  | 6674.5  | 6208.3  | 6032.5  | 5849.6  | 5584.2 | 5293.7  | 5146.7  | 5164.6  |
| 45°   | 18757.5 | 16419.1 | 9289.1  | 6133.0  | 5760.0  | 5684.6  | 5473.0  | 5153.8 | 4838.2  | 4651.7  | 4637.4  |
| 47.5° | 20134.8 | 17279.9 | 8726.0  | 5587.8  | 5340.3  | 5422.8  | 5257.8  | 4963.8 | 4612.3  | 4318.2  | 4285.9  |
| 50°   | 21451.0 | 18086.9 | 7804.3  | 5035.5  | 4999.6  | 5343.9  | 5186.1  | 4762.9 | 4361.2  | 3984.6  | 3952.4  |
| 52.5° | 22756.5 | 18739.6 | 6624.3  | 4533.4  | 4816.7  | 5322.4  | 5092.9  | 4626.6 | 4135.3  | 3740.7  | 3697.7  |
| 55°   | 23864.7 | 19076.7 | 5487.4  | 4103.0  | 4551.3  | 5139.5  | 4981.7  | 4465.2 | 3816.1  | 3396.4  | 3360.6  |
| 57.5° | 24496.0 | 18804.2 | 4540.5  | 3679.8  | 4185.5  | 4838.2  | 4791.6  | 4120.9 | 3435.9  | 3113.1  | 3070.1  |
| 60°   | 24223.4 | 17699.5 | 3765.9  | 3310.4  | 3837.6  | 4511.8  | 4461.6  | 3780.2 | 3145.4  | 2840.5  | 2797.5  |
| 62.5° | 22720.6 | 15594.2 | 3152.6  | 2987.6  | 3522.0  | 4178.3  | 4131.7  | 3518.4 | 2923.0  | 2628.9  | 2582.3  |
| 65°   | 19693.6 | 12685.5 | 2675.5  | 2718.6  | 3202.8  | 3776.6  | 3844.8  | 3299.6 | 2747.3  | 2460.4  | 2413.7  |
| 67.5° | 15020.4 | 9188.7  | 2302.5  | 2485.5  | 2890.7  | 3382.1  | 3579.4  | 3141.8 | 2600.2  | 2327.7  | 2284.6  |
| 70°   | 8561.0  | 5218.4  | 1986.9  | 2259.5  | 2614.6  | 3016.3  | 3374.9  | 3016.3 | 2442.4  | 2216.5  | 2187.8  |
| 72.5° | 3245.8  | 2395.8  | 1717.9  | 2033.6  | 2349.2  | 2707.8  | 3149.0  | 2819.0 | 2259.5  | 2090.9  | 2062.3  |
| 75°   | 1732.3  | 1459.7  | 1445.4  | 1768.2  | 2044.3  | 2406.6  | 2865.6  | 2625.3 | 2123.2  | 2209.3  | 2281.0  |
| 77.5° | 1180.0  | 1032.9  | 1208.7  | 1513.5  | 1710.8  | 2073.0  | 2564.4  | 2331.2 | 1839.9  | 1832.7  | 1689.3  |
| 80°   | 817.7   | 731.7   | 982.7   | 1219.4  | 1323.4  | 1743.1  | 2238.0  | 2001.3 | 1499.2  | 1398.7  | 1337.8  |
| 82.5° | 491.4   | 477.0   | 735.2   | 911.0   | 936.1   | 1344.9  | 1854.2  | 1678.5 | 1226.6  | 1068.8  | 1076.0  |
| 85°   | 269.0   | 283.3   | 469.8   | 534.4   | 545.2   | 939.7   | 1452.5  | 1298.3 | 943.3   | 792.6   | 799.8   |
| 87.5° | 75.3    | 96.8    | 172.2   | 211.6   | 261.8   | 487.8   | 864.4   | 771.1  | 473.4   | 330.0   | 330.0   |
| 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)