

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: P957352

Luminaire Tested: **GALN-SB9D-727-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-727-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 85450 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
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



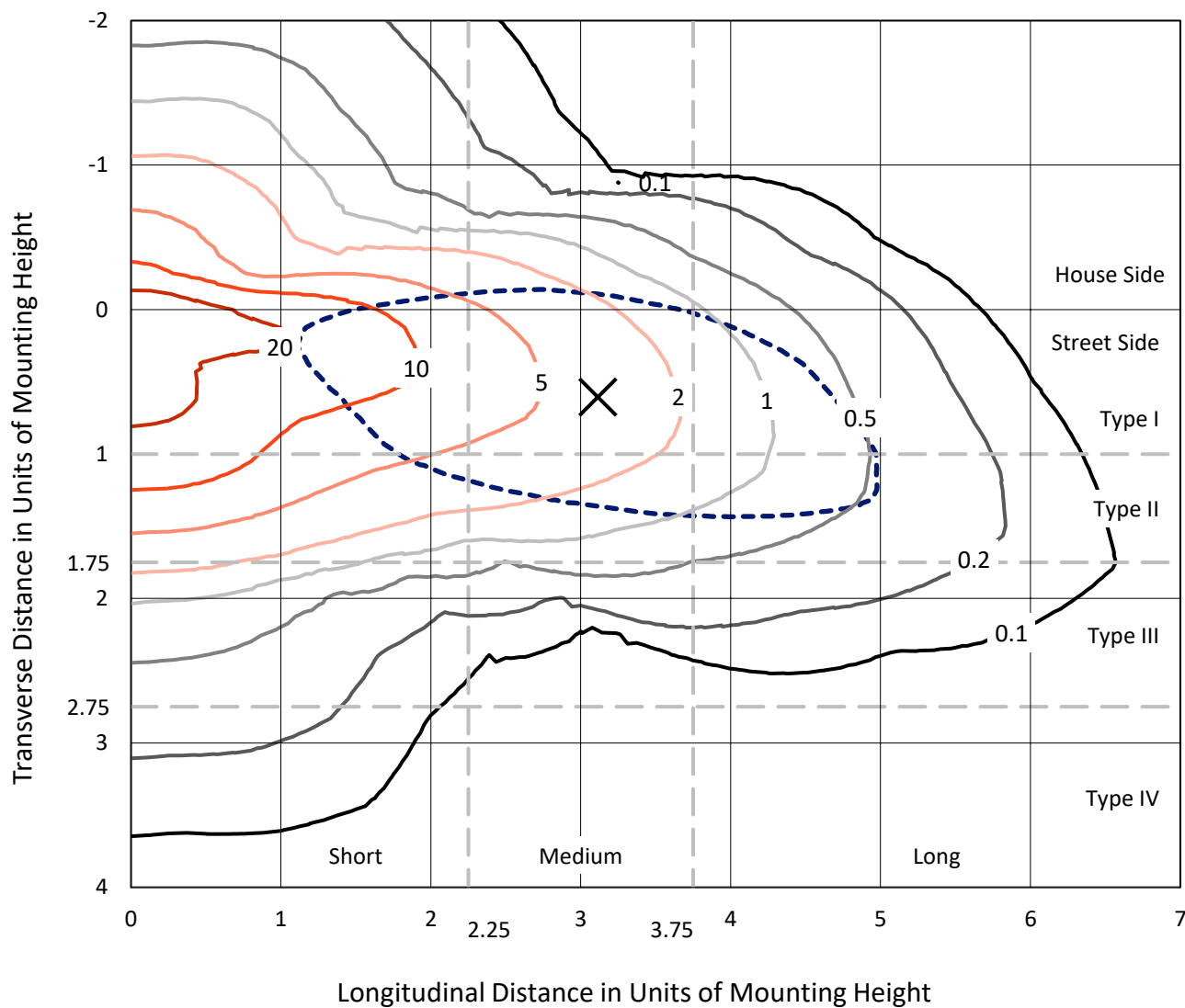
REPORT NUMBER: P957352

CATALOG NUMBER: GALN-SB9D-727-U-SL2

## Iso-Footcandle Lines of Horizontal Illumination

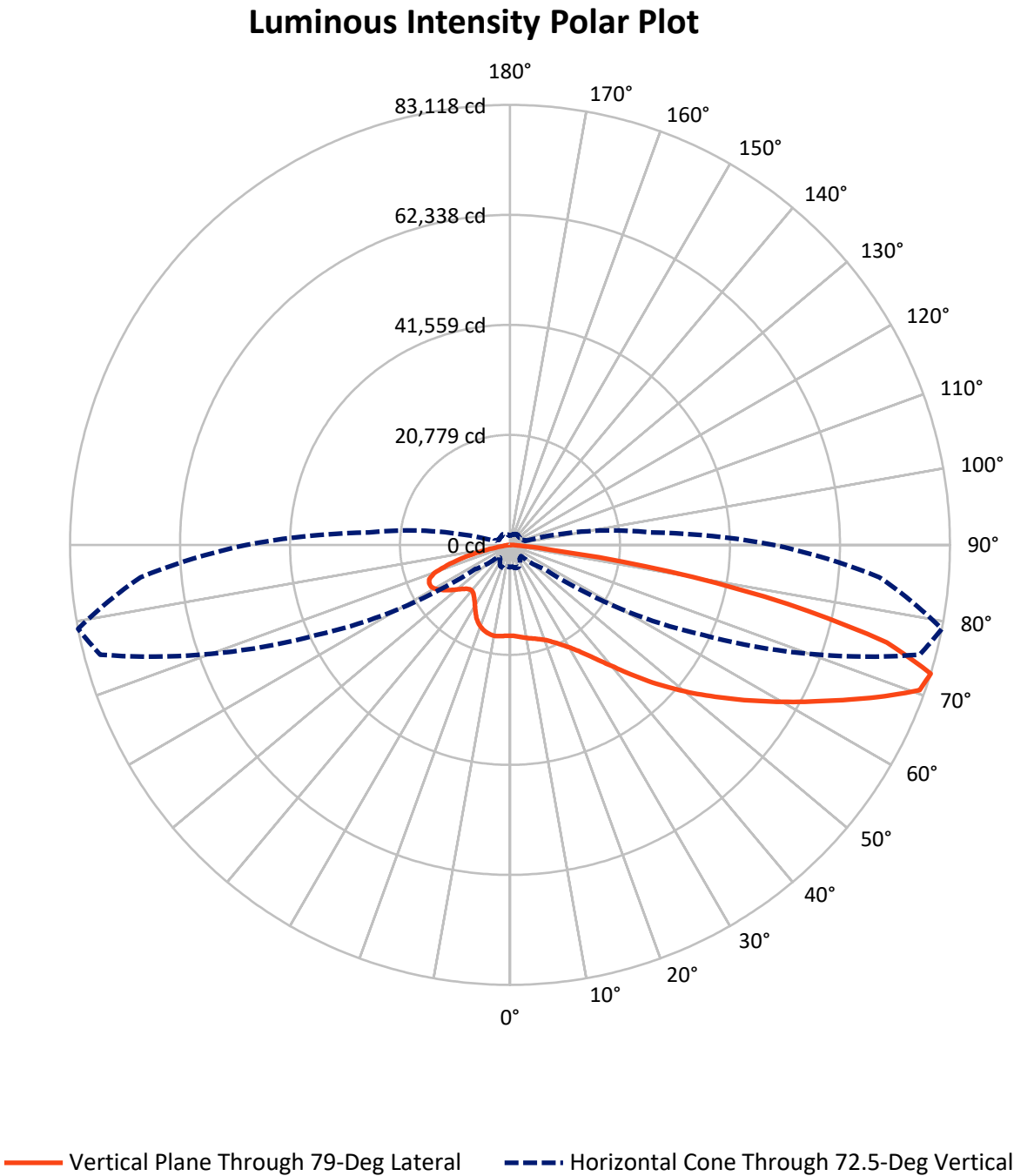
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc  
Type II - Medium - N/A

REPORT NUMBER: P957352  
CATALOG NUMBER: GALN-SB9D-727-U-SL2



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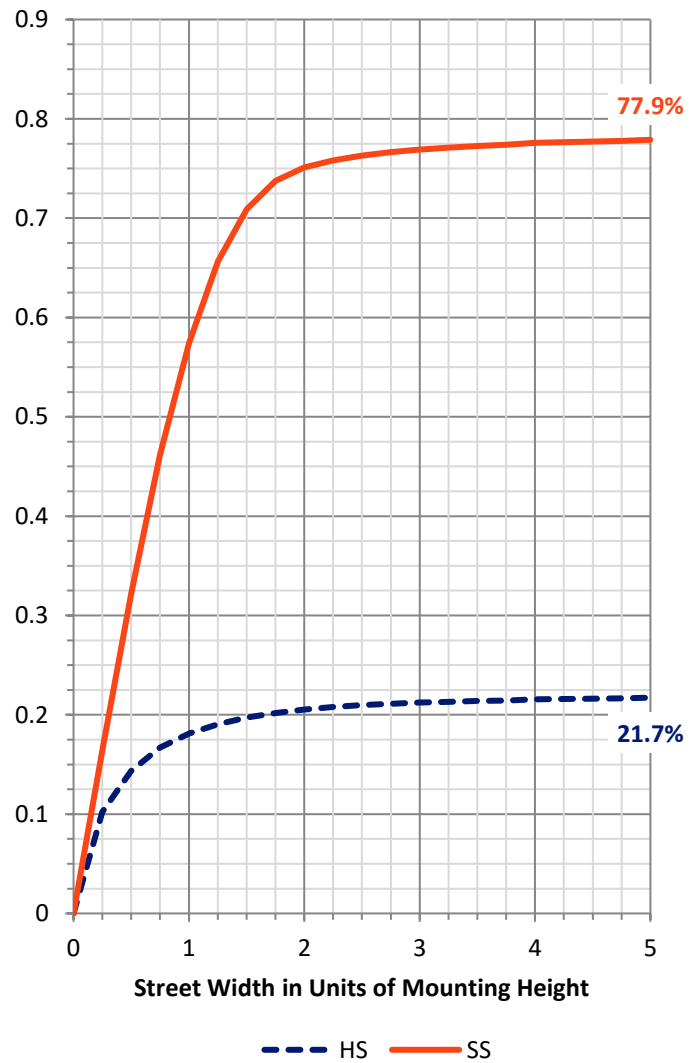
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18803.7  | 0.0    | 18803.7 |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 66646.3  | 0.0    | 66646.3 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 85450.0  | 0.0    | 85450.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1557.0  | 1.8       |
| 10°-20°   | 4070.8  | 4.8       |
| 20°-30°   | 6568.7  | 7.7       |
| 30°-40°   | 9858.6  | 11.5      |
| 40°-50°   | 13985.0 | 16.4      |
| 50°-60°   | 17661.2 | 20.7      |
| 60°-70°   | 17937.4 | 21.0      |
| 70°-80°   | 12225.1 | 14.3      |
| 80°-90°   | 1586.1  | 1.9       |
| 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°    | 85450.0 | 100.0     |
| 0°-180°   | 85450.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P957352

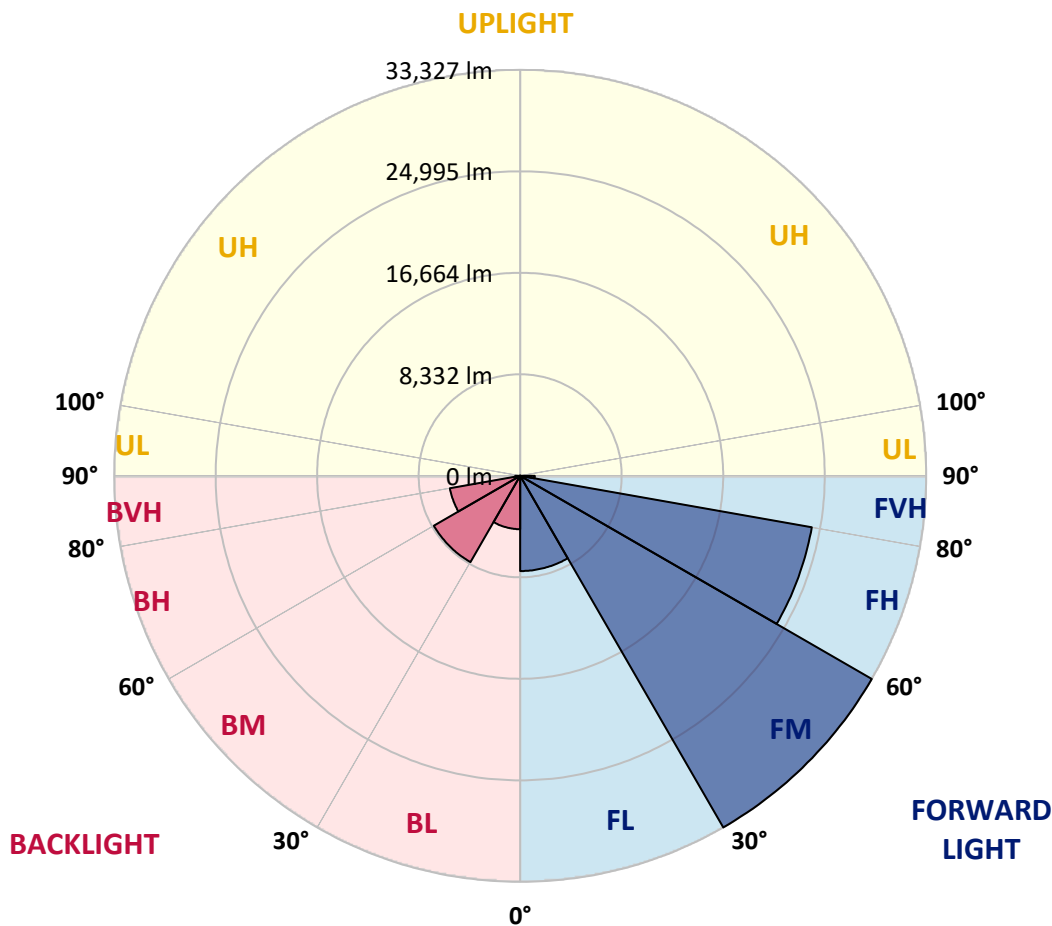
CATALOG NUMBER: GALN-SB9D-727-U-SL2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 7816.6  | 9.1       |                         |      |        |
| FM   | (30°-60°)   | 33327.2 | 39.0      |                         |      |        |
| FH   | (60°-80°)   | 24307.6 | 28.4      |                         |      | G5     |
| FVH  | (80°-90°)   | 1194.8  | 1.4       |                         |      | G5     |
| BL   | (0°-30°)    | 4379.9  | 5.1       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 8177.6  | 9.6       | B4/8500                 |      |        |
| BH   | (60°-80°)   | 5854.9  | 6.9       | B5                      |      | G5     |
| BVH  | (80°-90°)   | 391.3   | 0.5       |                         |      | G3/500 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B5-U0-G5**

Type II Medium



REPORT NUMBER: P957352

CATALOG NUMBER: GALN-SB9D-727-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 |
| 2.5°  | 17162.3 | 17081.0 | 17130.7 | 17112.6 | 17135.2 | 17162.3 | 17171.4 | 17184.9 | 17230.1 | 17225.6 | 17221.1 |
| 5°    | 17126.2 | 17044.8 | 17112.6 | 17090.0 | 17148.8 | 17212.0 | 17266.3 | 17316.0 | 17388.3 | 17420.0 | 17374.8 |
| 7.5°  | 17049.3 | 16995.1 | 17062.9 | 17130.7 | 17239.2 | 17334.1 | 17410.9 | 17523.9 | 17627.9 | 17646.0 | 17677.6 |
| 10°   | 16601.8 | 16561.2 | 16719.4 | 16895.6 | 17194.0 | 17451.6 | 17618.8 | 17749.9 | 17862.9 | 17881.0 | 17926.2 |
| 12.5° | 16136.3 | 16086.6 | 16262.8 | 16502.4 | 16986.0 | 17451.6 | 17804.2 | 17975.9 | 18075.3 | 18134.1 | 18201.9 |
| 15°   | 16059.4 | 16018.8 | 16118.2 | 16326.1 | 16728.4 | 17329.6 | 17930.7 | 18247.1 | 18333.0 | 18400.8 | 18427.9 |
| 17.5° | 16430.1 | 16353.2 | 16393.9 | 16466.2 | 16701.3 | 17216.6 | 18030.1 | 18554.5 | 18685.5 | 18757.9 | 18757.9 |
| 20°   | 17288.9 | 17180.4 | 17117.1 | 16972.5 | 16931.8 | 17234.6 | 18021.1 | 18925.1 | 19096.9 | 19187.3 | 19209.9 |
| 22.5° | 18432.4 | 18360.1 | 18224.5 | 17858.4 | 17460.6 | 17456.1 | 18192.9 | 19399.7 | 19720.6 | 19806.5 | 19752.3 |
| 25°   | 19815.5 | 19707.1 | 19535.3 | 19038.1 | 18274.2 | 17894.5 | 18482.1 | 20005.4 | 20543.3 | 20565.9 | 20407.7 |
| 27.5° | 21406.6 | 21243.8 | 21008.8 | 20353.4 | 19322.9 | 18581.6 | 18925.1 | 20701.4 | 21487.9 | 21478.9 | 21153.4 |
| 30°   | 23083.5 | 22920.8 | 22672.2 | 21876.6 | 20579.4 | 19508.2 | 19539.8 | 21451.8 | 22608.9 | 22559.2 | 22003.2 |
| 32.5° | 24308.4 | 24186.3 | 24136.6 | 23521.9 | 22025.8 | 20602.0 | 20244.9 | 22283.4 | 23992.0 | 23946.8 | 23169.4 |
| 35°   | 25248.5 | 25090.3 | 25149.1 | 24837.2 | 23603.3 | 21826.9 | 21108.2 | 23273.3 | 25673.4 | 25668.9 | 24701.6 |
| 37.5° | 26179.6 | 26039.5 | 26089.2 | 25881.3 | 25063.2 | 23381.8 | 22161.4 | 24484.7 | 27757.1 | 27856.6 | 26554.8 |
| 40°   | 27029.4 | 26880.2 | 27079.1 | 26884.8 | 26197.7 | 25036.1 | 23359.2 | 25854.2 | 30170.8 | 30360.6 | 28796.7 |
| 42.5° | 27540.2 | 27422.6 | 27752.6 | 27757.1 | 27183.1 | 26432.8 | 24674.5 | 27363.9 | 32964.1 | 33389.0 | 31553.9 |
| 45°   | 27716.4 | 27675.8 | 28173.0 | 28276.9 | 28055.4 | 27241.8 | 25858.7 | 29009.1 | 35974.4 | 36733.8 | 34695.3 |
| 47.5° | 27526.6 | 27449.8 | 28136.8 | 28521.0 | 28697.3 | 27621.5 | 26839.6 | 30790.0 | 39048.0 | 40159.9 | 38121.4 |
| 50°   | 26568.4 | 26419.2 | 27440.7 | 28249.8 | 28878.1 | 27870.1 | 27829.4 | 32846.6 | 42541.9 | 43757.8 | 41565.6 |
| 52.5° | 24846.3 | 24733.3 | 25894.9 | 27300.6 | 28480.3 | 27992.2 | 28941.3 | 35093.0 | 45859.6 | 47432.5 | 45095.7 |
| 55°   | 22645.0 | 22495.9 | 23775.0 | 25610.1 | 27490.4 | 27951.5 | 30053.3 | 37606.1 | 49773.9 | 51369.4 | 48743.3 |
| 57.5° | 19155.6 | 18857.3 | 20475.5 | 22645.0 | 25876.8 | 27901.8 | 31210.4 | 40105.7 | 53751.4 | 55663.4 | 52635.0 |
| 60°   | 14066.1 | 13623.2 | 15607.4 | 18179.3 | 22721.9 | 27418.1 | 32643.2 | 42908.0 | 58524.5 | 60246.6 | 56883.8 |
| 62.5° | 8190.2  | 7932.5  | 9229.8  | 11629.9 | 17126.2 | 24570.5 | 33447.8 | 46166.9 | 63216.3 | 65024.2 | 61060.2 |
| 65°   | 6359.6  | 6287.3  | 6400.3  | 6585.6  | 9532.6  | 18396.3 | 30966.3 | 49344.5 | 69182.6 | 70448.2 | 65413.0 |
| 67.5° | 5817.2  | 5763.0  | 5812.7  | 5464.6  | 4836.4  | 10246.8 | 24498.2 | 50149.0 | 75573.8 | 76342.2 | 69223.3 |
| 70°   | 5170.8  | 5107.6  | 5270.3  | 4972.0  | 3805.8  | 4660.1  | 15828.9 | 47229.1 | 80658.8 | 82100.7 | 72120.6 |
| 72.5° | 4212.6  | 4140.3  | 4520.0  | 4384.4  | 3204.7  | 2992.2  | 7950.6  | 40291.0 | 80125.5 | 83117.7 | 70045.9 |
| 75°   | 3236.3  | 3195.6  | 3647.6  | 3760.6  | 2612.5  | 2354.9  | 3814.9  | 29949.3 | 70511.5 | 73526.3 | 60368.7 |
| 77.5° | 2513.1  | 2481.5  | 2712.0  | 3123.3  | 2106.3  | 1826.1  | 2345.9  | 18997.4 | 53136.7 | 53665.6 | 41601.8 |
| 80°   | 1884.8  | 1794.4  | 2006.9  | 2418.2  | 1640.7  | 1333.4  | 1591.0  | 11078.4 | 33587.9 | 30446.5 | 18107.0 |
| 82.5° | 1179.7  | 1134.5  | 1310.8  | 1613.6  | 1157.1  | 917.6   | 1035.1  | 6120.0  | 13460.5 | 7928.0  | 3493.9  |
| 85°   | 673.5   | 655.4   | 714.2   | 922.1   | 628.3   | 528.8   | 592.1   | 2702.9  | 2458.9  | 1690.5  | 1053.2  |
| 87.5° | 271.2   | 262.2   | 325.4   | 411.3   | 230.5   | 194.4   | 207.9   | 650.9   | 542.4   | 501.7   | 348.0   |
| 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: P957352

CATALOG NUMBER: GALN-SB9D-727-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 | 17153.3 |
| 2.5°  | 17203.0 | 17203.0 | 17139.7 | 17040.3 | 16927.3 | 16855.0 | 16737.4 | 16705.8 | 16583.8 | 16547.6 | 16606.4 |
| 5°    | 17410.9 | 17374.8 | 17180.4 | 16900.2 | 16516.0 | 16163.4 | 15774.7 | 15530.6 | 15187.1 | 15065.1 | 15155.4 |
| 7.5°  | 17673.1 | 17573.6 | 17239.2 | 16624.4 | 15819.9 | 15028.9 | 14206.3 | 13582.5 | 12985.9 | 12773.4 | 12800.5 |
| 10°   | 17912.6 | 17772.5 | 17203.0 | 16127.2 | 14735.1 | 13365.5 | 12054.8 | 11137.2 | 10441.1 | 10156.4 | 10219.6 |
| 12.5° | 18152.2 | 17894.5 | 16963.4 | 15300.1 | 13193.8 | 11336.1 | 9939.4  | 9225.3  | 8795.9  | 8452.3  | 8565.3  |
| 15°   | 18378.2 | 18016.6 | 16592.8 | 14192.7 | 11503.3 | 9618.5  | 8587.9  | 8018.4  | 7674.9  | 7448.9  | 7489.6  |
| 17.5° | 18640.3 | 18120.5 | 16036.8 | 12787.0 | 9894.2  | 8429.7  | 7589.0  | 7245.5  | 7177.7  | 7150.6  | 7168.7  |
| 20°   | 19006.5 | 18215.5 | 15304.6 | 11214.0 | 8710.0  | 7480.5  | 7046.6  | 7015.0  | 7010.5  | 6996.9  | 7042.1  |
| 22.5° | 19399.7 | 18328.5 | 14337.3 | 9785.7  | 7702.0  | 6888.4  | 6811.6  | 6748.3  | 6707.6  | 6703.1  | 6752.8  |
| 25°   | 19865.3 | 18364.6 | 13126.0 | 8615.1  | 6843.2  | 6608.2  | 6517.8  | 6422.9  | 6395.8  | 6395.8  | 6422.9  |
| 27.5° | 20317.3 | 18242.6 | 11715.8 | 7598.1  | 6359.6  | 6350.6  | 6233.0  | 6201.4  | 6196.9  | 6210.4  | 6246.6  |
| 30°   | 20769.2 | 18012.1 | 10314.6 | 6657.9  | 6079.4  | 6079.4  | 6038.7  | 6061.3  | 6079.4  | 6124.6  | 6156.2  |
| 32.5° | 21379.4 | 17768.0 | 9143.9  | 5961.8  | 5835.3  | 5790.1  | 5830.8  | 5876.0  | 5894.0  | 5952.8  | 6002.5  |
| 35°   | 22274.4 | 17596.2 | 8212.8  | 5582.2  | 5582.2  | 5523.4  | 5546.0  | 5537.0  | 5496.3  | 5469.2  | 5532.4  |
| 37.5° | 23458.6 | 17587.2 | 7444.4  | 5405.9  | 5369.7  | 5360.7  | 5365.2  | 5306.4  | 5148.2  | 4958.4  | 4962.9  |
| 40°   | 24882.4 | 17831.3 | 6852.3  | 5283.8  | 5256.7  | 5311.0  | 5283.8  | 5125.6  | 4691.7  | 4361.8  | 4352.7  |
| 42.5° | 26794.4 | 18527.3 | 6472.6  | 5134.7  | 5216.0  | 5283.8  | 5175.4  | 4628.4  | 4334.6  | 4113.2  | 4104.1  |
| 45°   | 29045.3 | 19657.3 | 6278.2  | 4976.5  | 5139.2  | 5220.6  | 4696.2  | 4456.7  | 4221.6  | 3955.0  | 3936.9  |
| 47.5° | 31594.6 | 21081.1 | 6233.0  | 4827.3  | 4967.4  | 5017.2  | 4492.8  | 4384.4  | 4117.7  | 3828.4  | 3805.8  |
| 50°   | 34369.8 | 22767.1 | 6355.1  | 4651.0  | 4718.8  | 4547.1  | 4425.0  | 4325.6  | 4049.9  | 3765.1  | 3733.5  |
| 52.5° | 37240.0 | 24624.8 | 6599.2  | 4411.5  | 4470.2  | 4280.4  | 4397.9  | 4312.0  | 4009.2  | 3625.0  | 3597.9  |
| 55°   | 40060.5 | 26496.0 | 6834.2  | 4131.2  | 4217.1  | 4040.9  | 4321.1  | 4257.8  | 3823.9  | 3390.0  | 3367.4  |
| 57.5° | 42926.1 | 28358.3 | 7064.7  | 3882.7  | 3973.1  | 3810.3  | 4199.0  | 4113.2  | 3616.0  | 3173.0  | 3164.0  |
| 60°   | 45904.8 | 30166.3 | 7173.2  | 3643.1  | 3706.4  | 3597.9  | 4013.7  | 3864.6  | 3380.9  | 2951.5  | 2938.0  |
| 62.5° | 48693.6 | 31671.4 | 6996.9  | 3403.5  | 3444.2  | 3399.0  | 3769.7  | 3570.8  | 3145.9  | 2702.9  | 2698.4  |
| 65°   | 51491.5 | 32566.4 | 6454.5  | 3168.5  | 3177.5  | 3154.9  | 3426.1  | 3254.4  | 2870.2  | 2486.0  | 2458.9  |
| 67.5° | 54027.2 | 33068.1 | 5591.2  | 2915.4  | 2892.8  | 2883.7  | 3105.2  | 2910.9  | 2603.5  | 2269.0  | 2241.9  |
| 70°   | 54565.0 | 31793.4 | 4271.4  | 2617.1  | 2617.1  | 2594.5  | 2752.7  | 2553.8  | 2309.7  | 2038.5  | 2029.5  |
| 72.5° | 49837.2 | 26744.6 | 3032.9  | 2278.1  | 2314.2  | 2269.0  | 2400.1  | 2232.9  | 2011.4  | 1830.6  | 1776.3  |
| 75°   | 40187.0 | 19612.1 | 2205.7  | 1930.0  | 1993.3  | 1916.5  | 2038.5  | 1921.0  | 1731.1  | 1726.6  | 1554.9  |
| 77.5° | 27612.5 | 12127.1 | 1600.1  | 1591.0  | 1636.2  | 1536.8  | 1676.9  | 1613.6  | 1441.9  | 1365.0  | 1279.2  |
| 80°   | 11783.6 | 4836.4  | 1166.2  | 1229.4  | 1229.4  | 1139.0  | 1301.8  | 1319.8  | 1170.7  | 1134.5  | 1134.5  |
| 82.5° | 2345.9  | 1374.1  | 818.1   | 845.2   | 795.5   | 768.4   | 922.1   | 1021.5  | 1410.2  | 1568.4  | 1572.9  |
| 85°   | 705.1   | 506.2   | 492.7   | 461.0   | 406.8   | 411.3   | 542.4   | 1026.0  | 1265.6  | 723.2   | 623.8   |
| 87.5° | 194.4   | 126.6   | 131.1   | 104.0   | 85.9    | 113.0   | 185.3   | 777.4   | 424.9   | 180.8   | 153.7   |
| 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)